KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

TENDER: PUR19-24-ITT

Moffet & Duncan Architects Inc.

5052 Dundas St. West, Toronto, Ontario, M9A 1B9

A1.0 Site Plan
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A2.2 Partial First Floor Demolition Plans
A2.3 Partial First Floor Plans
A2.4 Partial First Floor Reflected Ceiling Plans and Details
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A6.2 Millwork Details
A6.3 Millwork Details

Ravens Engineering Inc.

2171 Avenue Rd., Suite 106, Toronto, ON, M5M 4B4

S1.1 Framing Plans, Sections & Details Part A
S2.1 Typical Details & General Notes

Demaiter Engineering Inc.

420 Weber Street N. Unit I, Waterloo, ON, N2L 4E7

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M2.3 Partial First Floor Demolition Plans
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E4.2 Lighting Control Details & Schedules
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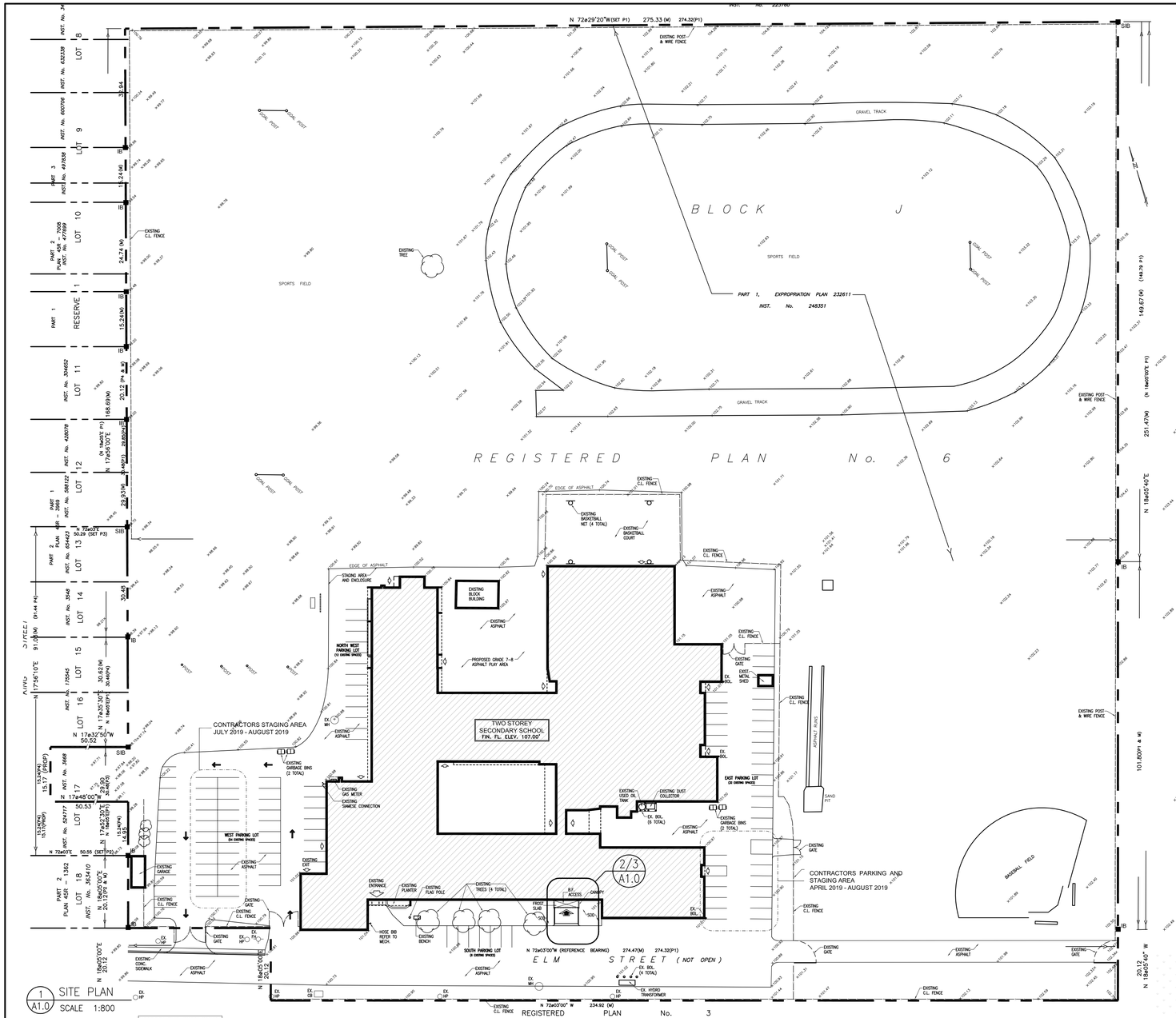
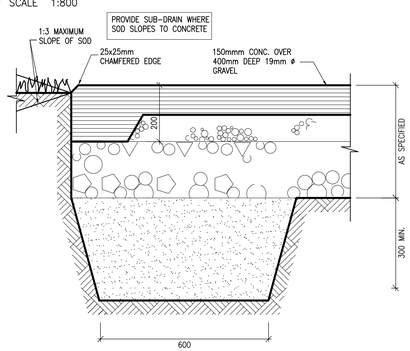
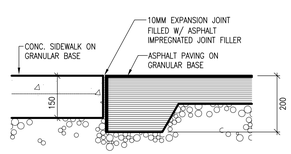


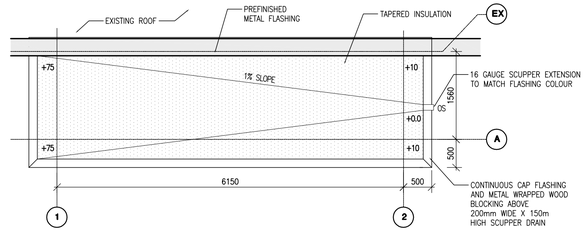
1 / A1.0 SITE PLAN
SCALE 1:800



5 / A1.0 ASPHALT TO SOD INTERFACE
SCALE 1:10

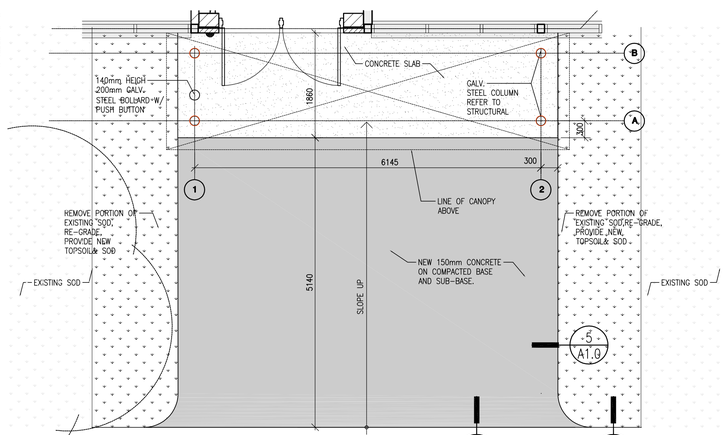


4 / A1.0 ASPHALT TO SIDEWALK INTERFACE
SCALE 1:10



3 / A1.0 ROOF PLAN AT CANOPY (SEPARATE PRICE NO. 1)
SCALE 1:50

SEPARATE PRICE NO.1 (EXTRA TO CONTRACT)
COST TO CONSTRUCT EXTERIOR CANOPY AT VESTIBULE V02
NOTE: COST OF NEW ENTRANCE, EXTERIOR CONCRETE FOUNDATION / COLUMN FOOTINGS, BASE PLATE, AND EXTERIOR SLAB TO BE INCLUDED



2 / A1.0 FLOOR PLAN AT CANOPY
SCALE 1:50

Name of Practice:
Moffet & Duncan Architects Inc.
5146 Dundas Street West
Toronto, Ontario
M9A 1C2

Name of Project:
Norwood DHS – Renovation Phase 2

Location:
44 Elm Street, Norwood, ON

Date:
February 14, 2019

Ontario Building Code Data Matrix – Part 11 – Renovation of Existing Building

			OBC Reference
11.00	Building Code Version:	O. Reg. 332/12 Last Amendment: O. Reg. 191/14	
11.01	Project Type:	☐ Addition ☒ Renovation ☐ Addition and renovation ☐ Change of Use Description:	[A]1.1.2
11.02	Major Occupancy Classification	Occupancy: A2– ASSEMBLY Use: SCHOOL	3.1.2.1.(1)
11.03	Superimposed Major Occupancies:	☒ No ☐ Yes Description:	3.2.2.7
11.04	Building Area (m^2)	Existing 7868 m^2 New — Total 7868 m^2	[A]1.4.1.2
11.05	Building Height	TWO Storeys above grade 7.6 (m) Above grade 0 Storeys below grade	[A]1.4.1.2 & 3.2.1.1
11.06	Number of Streets/ Firefighter access	ONE Streets	3.2.2.10 & 3.2.5
11.07	Building Size	☐ Small ☐ Medium ☐ Large ☐ > Large	T.11.2.1.B. –N
11.08	Existing Building Classification	Change in major occupancy: ☐ Yes ☒ Not Applicable (no change of major occupancy) Construction Index Hazard Index Importance Category: ☐ Low ☐ Normal ☐ High ☐ Post–disaster	11.2.1,1 T 11.2.1.1A T 11.2.1.1B to N 4.2.1.(3) 5.2.2.1.(2)
11.09	Renovation type:	Basic Renovation ☒ Extensive Renovation ☐	11.3.3.1 11.3.3.2
11.10	Occupant Load:	Floor Level/Area — Occupancy Type — Based On — Occupant Load (Persons) 1st Floor — A2 — BUILDING DESIGN — 1065 (EXISTING) 2nd Floor — A2 — BUILDING DESIGN — 425 (EXISTING) TOTAL — — — 1490 (EXISTING)	3.1.17
11.11	Plumbing Fixture Requirements:	Ratio: M/F = 1/1 Except as otherwise noted Floor Level/Area — Occupant Load — OBC Reference — Fixtures Required — Fixtures Provided NOT COMPLIANT (EXISTING)	3.7.4
11.12	Barrier–free Design:	☐ Yes Explanation: NOT COMPLIANT (EXISTING) ☐ No	11.3.3.2.(2)
11.13	Reduction in Performance Level:	Structural: ☒ NO ☐ YES By increase in occupant load: ☒ NO ☐ YES By change in major occupancy: ☒ NO ☐ YES Plumbing: ☒ NO ☐ YES Sewage–system: ☒ NO ☐ YES Extension of Combustible Construction: ☒ NO ☐ YES	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6
11.14	Compensating Construction:	☒ No ☐ Yes Structural: ☒ NO ☐ YES (Describe) Increase in occupant load: ☒ NO ☐ YES (Describe) Change in major occupancy: ☒ NO ☐ YES (Describe) Plumbing: ☒ NO ☐ YES (Describe) Sewage–system: ☒ NO ☐ YES (Describe) Extension of Combustible Construction ☒ NO ☐ YES (Describe)	11.4.3.1 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6 11.4.3.7
11.15	Compliance Alternatives Proposed:	☒ NO ☐ YES (list numbers and describe) (list numbers and describe) (list numbers and describe)	11.5.1
11.16	Notes:		11.5.1

LEGEND

- EXISTING GRADES (NOT SHOWN ON THIS DRAWING) REFER TO DEMOLITION SITE PLAN DWG. A1.0
- PROPOSED FINISHED GRADES. REFER TO SITE GRADING & LANDSCAPE DWGS.
- EXISTING/ NEW CONTOUR LINES (NOT SHOWN ON THIS DRAWING) – REFER TO SITE GRADING DWGS.
- EXISTING TO BE DEMOLISHED, EXCEPT OTHERWISE NOTED. FOR FURTHER EXTENT REFER TO DWG. A1.0
- HEAVY DUTY ASPHALT
- MEDIUM DUTY ASPHALT
- NEW CONCRETE
- NEW SOD
- TAPERED INSULATION
- ENTRANCES INTO BUILDING (MAIN / SECONDARY)
- WEEPING TILE SEE MECHANICAL AND SITE SERVICING DWGS.
- EXISTING CHAIN LINK FENCE
- CHAIN LINK FENCE (HEIGHT AS NOTED)
- FIRE ROUTE
- PAINTED PARKING LINES AS PER MUNICIPAL STANDARDS
- PAINTED BARRIER FREE ACCESSIBLE PARKING SYMBOL, REFER TO DET. 18/A1.2
- PROPERTY LINE
- EXISTING FIRE HYDRANT
- CURB DEPRESSION
- PAINTED TRAFFIC ARROWS
- IRON BAR
- SURVEY MONUMENT SET
- NEW LIGHT STANDARD
- EX. LIGHT STANDARD
- EX. CATCH BASIN
- EX. MANHOLE
- EX. TREES

TENDER NUMBER: PUR19-24-ITT

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JAN. 16, 2019	ISSUED FOR COORDINATION

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
MATRIX
SITE PLAN & SITE DETAILS
CANOPY DETAILS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE 4695

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE MATRIX

DATE DEC. 2018

PRINTED February 19, 2019

DWG. NO. A1.0

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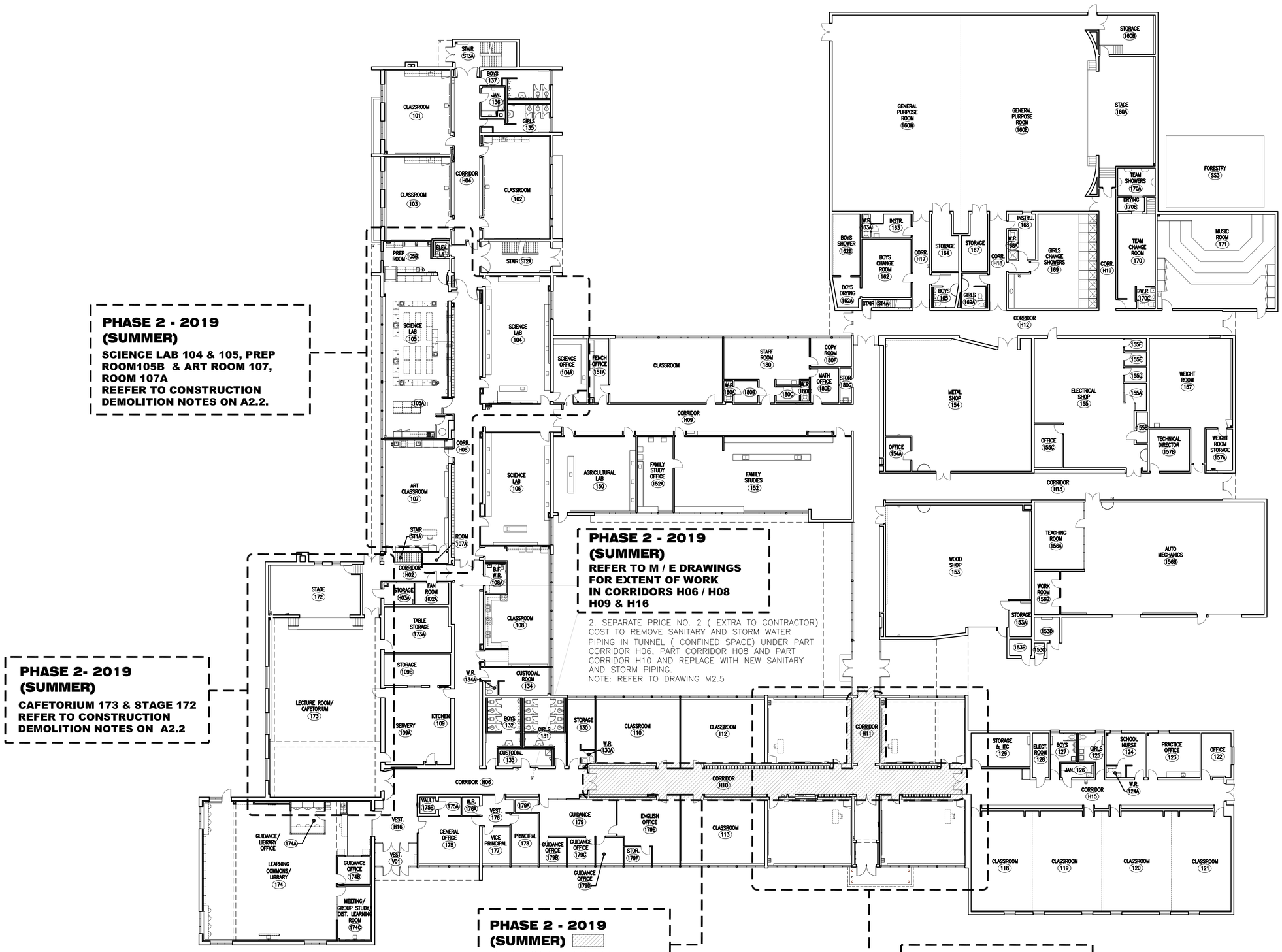
DRAWN BY:MB
PLOTTED: Tue, 19 Feb, 2019



1 / A2.1 FIRST FLOOR KEYPLAN
SCALE 1:100

NOTES:

1) CONTRACTOR TO COORDINATE HAZARDOUS MATERIALS ABATEMENT WORK FOR EVENINGS AND WEEKENDS DURING PHASE 1

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

FIRST FLOOR KEYPLAN AND PHASING NOTES

ONTARIO ASSOCIATION OF ARCHITECTS
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TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

DATE DEC. 2018

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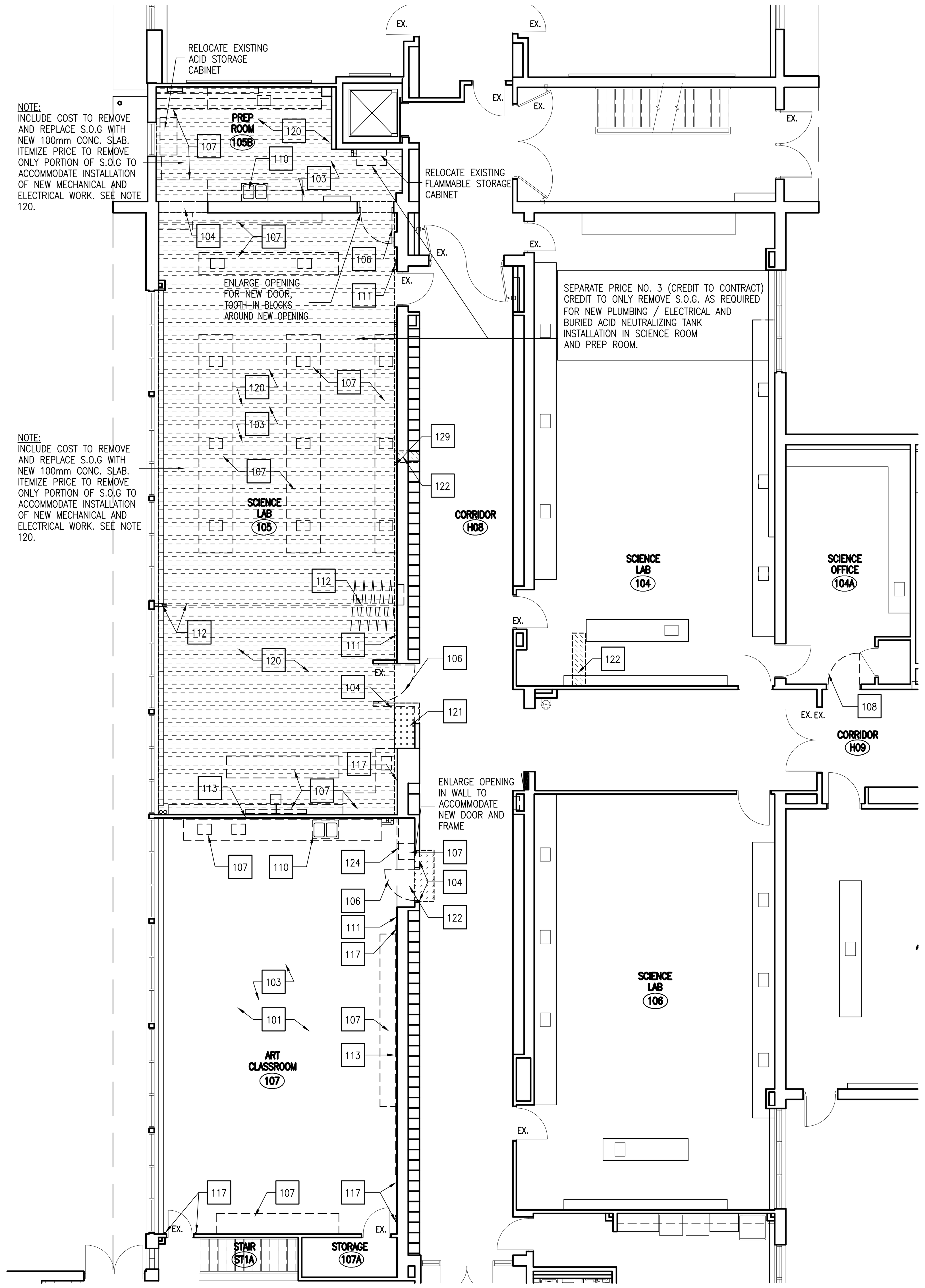
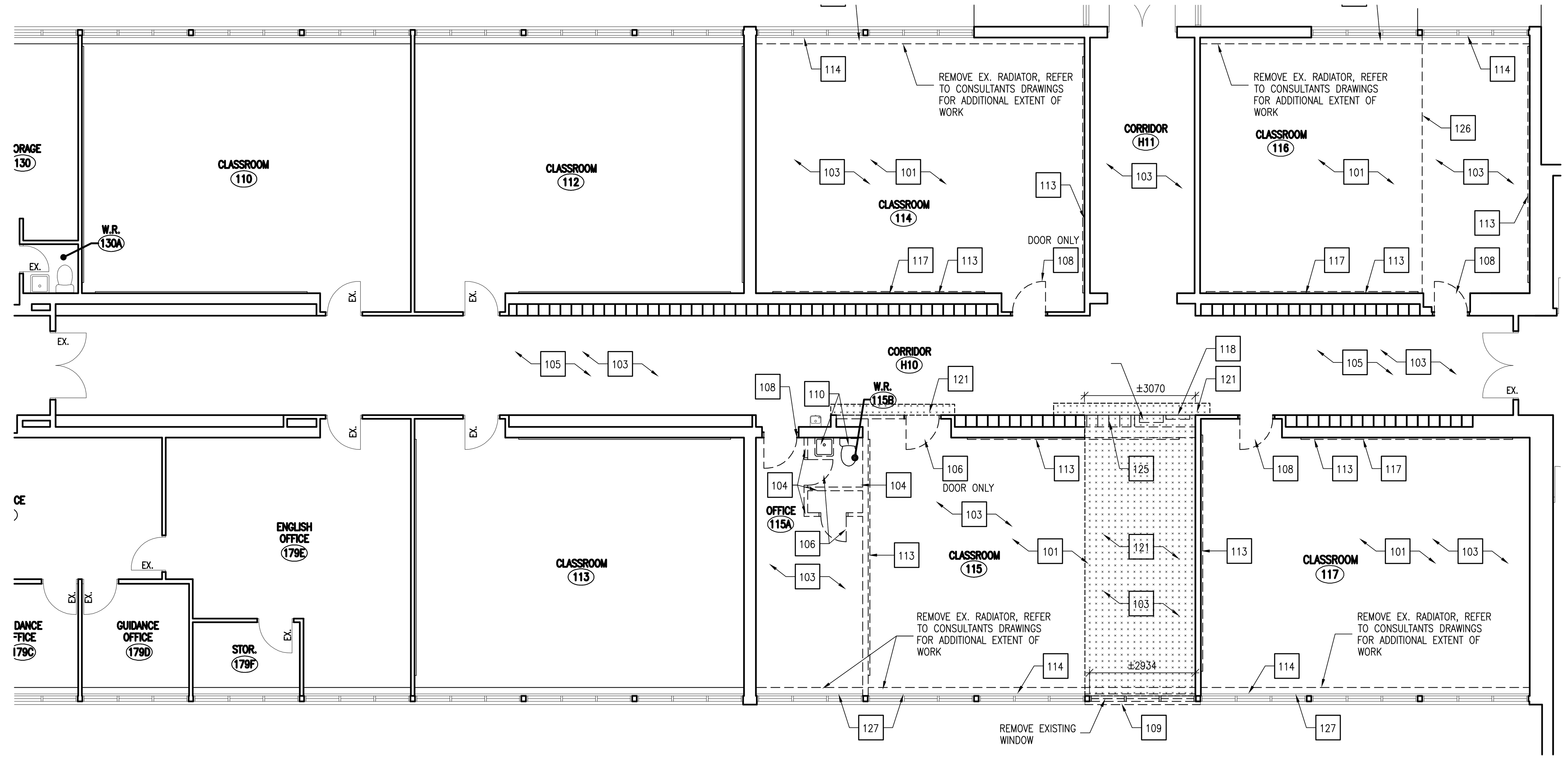


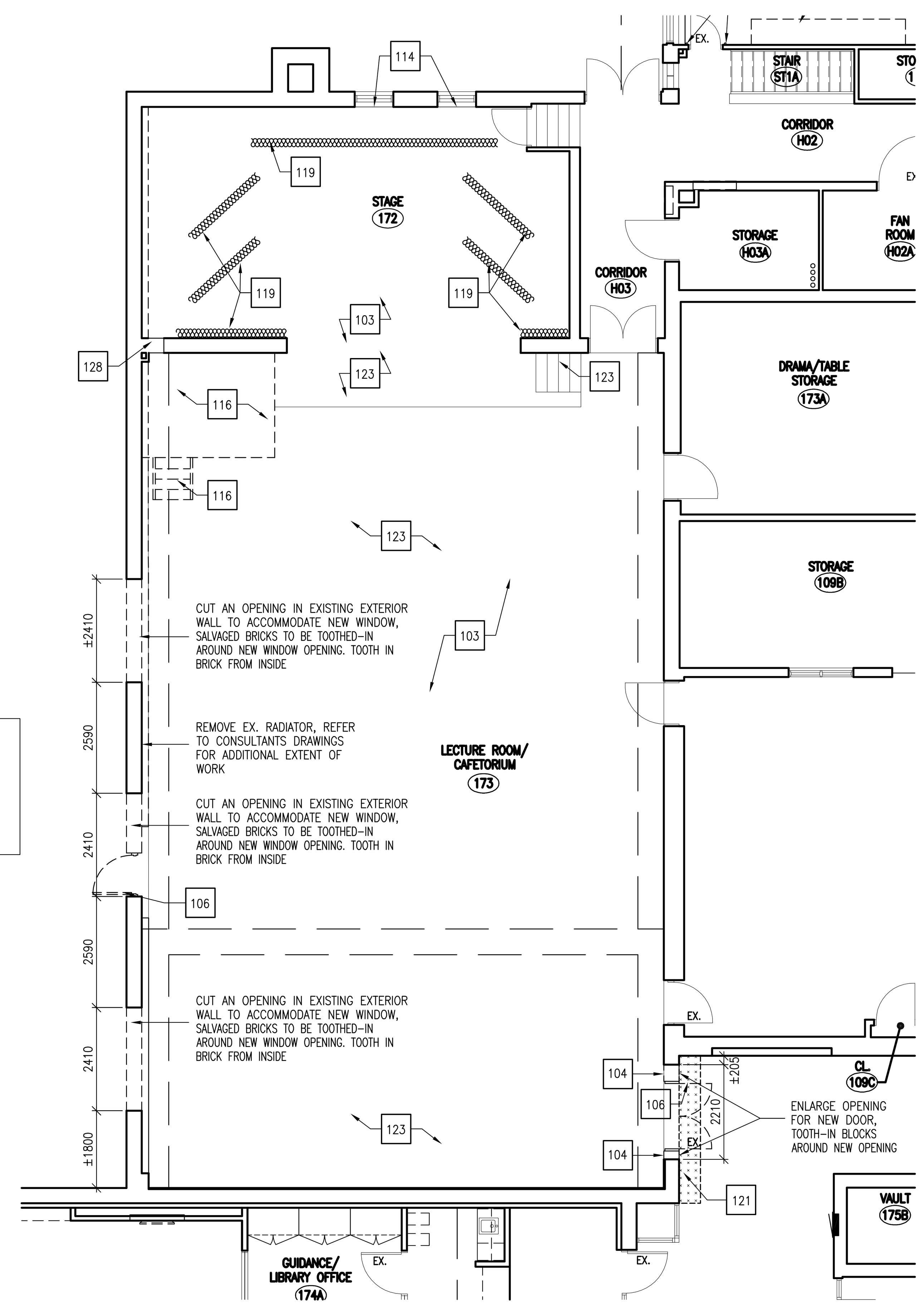
1 / A2.2 PARTIAL DEMOLITION FLOOR PLAN @ SCIENCE LAB 105 & ART ROOM 107
SCALE 1:100

SEPARATE PRICE NO. 4 (CREDIT TO CONTRACT)
CREDIT TO REMOVE EXISTING STAGE DRAPERY / RIGGING, SHORTEN DRAPERY TO SUIT NEW CEILING HEIGHT AND REINSTALL DRAPERY / RIGGING.

ITEMIZE PRICE NO. 1 (INCLUDED IN CONTRACT)
COST TO REMOVE EXISTING STAGE DRAPERY / RIGGING AND REPLACE WITH NEW DRAPERY / RIGGING SYSTEM.



3 / A2.2 PARTIAL DEMOLITION FIRST FLOOR PLAN @ CLASSROOMS 114–117
SCALE 1:100



2 / A2.2 PARTIAL DEMOLITION FLOOR PLAN @ CAFETORIUM 173
SCALE 1:100

REFERENCE DEMOLITION NOTES:

101	REMOVE EXISTING VCT FLOOR FINISH AND RUBBER BASE THROUGHOUT ROOM.
102	REMOVE EXISTING TERRAZZO FLOOR FINISH AND BASE TO NEAREST DIVIDER STRIP AS REQUIRED FOR NEW CONSTRUCTION.
103	REMOVE EXISTING CEILING TILE, CEILING GRID, LIGHT FIXTURES, INCLUDING WIRE HANGERS AND CEILING TILES. ALL REMAINING EXISTING CEILING COMPONENTS (EMERGENCY LIGHTS, EXIT LIGHTS, FIRE ALARM DEVICES, SMOKE AND HEAT DETECTORS, DIFFUSERS, GRILLES, ETC.), REFER TO ELECTRICAL DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
104	REMOVE EXISTING CONCRETE BLOCK WALL. REMOVE ALL ASSOCIATED OUTLETS, WIRING AND CONDUITS BACK TO ELECTRICAL PANELS. REPAIR ADJACENT FLOORS AND WALLS AFTER WALL REMOVAL. TOOTH–IN BLOCKS OR BRICKS AROUND NEW OPENINGS IN EX. MASONRY TO MATCH EXISTING
105	CAREFULLY REMOVE EXISTING LIGHT FIXTURES ABOVE FROM CORRIDOR H10 AND REINSTAL
106	REMOVE EXISTING WOOD/HOLLOW METAL DOORS, HOLLOW METAL DOOR FRAME, HOLLOW METAL SCREEN, GLAZING, AND HARDWARE.
107	REMOVE EXISTING MILLWORK COMPLETE AND ALL OTHER RELATED ITEMS(SINKS, OUTLETS, GAS COCKS, ETC.) CAP ALL ASSOCIATED PLUMBING, GAS LINES, ETC., REMOVE ALL ASSOCIATED WIRING AND CONDUITS BACK TO ELECTRICAL PANELS.
108	REMOVE EXISTING WOOD/HOLLOW METAL DOORS.
109	REMOVE EXISTING WINDOW SILLS. WINDOW AND MASONRY
110	REMOVE EXISTING PLUMBING FIXTURES AND ALL RELATED PLUMBING. CAP ALL ASSOCIATED PLUMBING BELOW SURFACE. CUT OUT SLAB ON GRADE AND INFILL WITH NEW CONCRETE.
111	REMOVE EXISTING PA SYSTEM, CLOCK, REPAIR EXISTING WALL, FILL OPENINGS WITH MASONRY, MAKE GOOD FINISH, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL EXTENT OF WORK
112	REMOVE FOLDING DOOR, PARTITION AND TRACK FROM CEILING. INFILL HOLES AFTER REMOVAL, REPAIR DAMAGED MASONRY AND MAKE GOOD FINISH.
113	REMOVE EXISTING CHALKBOARD/TACKBOARD/WHITEBOARD. GRIND OFF ALL EXISTING ADHESIVE FROM WALL, REMOVE FASTENERS. MAKE GOOD SURFACE.
114	REMOVE EXISTING WINDOW SHADES.
115	REMOVE EXISTING FIRE HOSE CABINET IN CORRIDOR H10. REINSTALL AT NEW LOCATION – SEE A2.3
116	REMOVE PLYWOOD PLATFORM AND STAIR
117	REMOVE EXISTING UNUSED ELECTRICAL ITEMS FROM WALLS (CONDUITS, OUTLETS, SWITCHES, ETC.). REPAIR SURFACES, FILL OPENINGS WITH MASONRY, MAKE GOOD FINISH, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL EXTENT OF WORK
118	REMOVE EXISTING ELECTRICAL PANEL AND ASSOCIATED CONDUITS & WIRES.
119	REMOVE EXISTING STAGE CURTAINS. NOTE: SALVAGE DRAPES, RIGGERS ETC (IF ITEMIZED PRICE
120	REMOVE EXISTING CONCRETE FLOOR SLAB TO ACCOMMODATE NEW ELECTRICAL AND MECHANICAL WORK. REFER TO CONSULTANTS DRAWINGS FOR EXTENT OF WORK. HATCH DENOTES AFFECTED AREAS.
121	CHIP OUT ±50mm CONCRETE FLOOR SLAB TO ACCOMMODATE NEW MASONRY WORK. MAKE GOOD TO RECEIVE NEW FLOORING. HATCH DENOTES AFFECTED AREAS.
122	CUT SECTION OF EXISTING TERRAZZO/ VCT FLOOR FINISH, EX. CONCRETE FLOOR SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW CONDUIT. MAKE GOOD FINISH TO RECEIVE NEW FLOORING.
123	SAND/STRIP EXISTING PAINT FINISH FROM CAFETORIUM 173 FLOOR, AND STAGE 172 FLOOR, MAKE GOOD AND PREPARE FOR NEW FINISH.
124	REMOVE EX. DIFFUSER/GRILLE. NEW OPENING TO BE AT BULKHEAD TO AVOID INTERFERENCE WITH NEW CEILING. MAKE GOOD FINISH, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL EXTENT OF WORK.
125	REMOVE +/– (5) EXISTING LOCKERS AS REQUIRED FOR NEW OPENING
126	REMOVE PORTION OF EXISTING ACT/GYPSUM BOARD BULKHEAD AND ASSOCIATED FRAMING
127	REMOVE PAPER BACKED INSULATION AND WOOD FURRING TO FULL LENGTH OF RADIATOR AT EXTERIOR WALLS. INSTALL NEW 38mm FOLIOED BACKED INSULATION AND WOOD FURRING TO SUPPORT 6mm POLY VAPOUR BARRIER AND 16mm GYPSUM BOARD.
128	REMOVE PORTION OF BLOCK WALL TO ACCOMMODATE HWS AND HWR PIPING. PROVIDE NEW BLOCK INFILL AT COPLETION OF WORK.
129	REMOVE BULKHEAD AND PART OF LOCKER BASE TO ACCOMMODATE CONDUIT INSTALLATION.

GENERAL DEMOLITION NOTES:

1) ALL REFERENCES TO REMOVE MEANS REMOVE & DISPOSE OF UNLESS OTHERWISE NOTED.
2) ALL DEMOLITION WORK TO OCCUR IN DESIGNATED AREAS AND SPECIFIED TIMES ONLY. ALL DAMAGE OUTSIDE THESE AREAS TO BE MADE GOOD BY THE GENERAL CONTRACTOR. WHEN WORK FOR MECHANICAL AND ELECTRICAL CONNECTIONS ARE REQUIRED TO TAKE PLACE OUTSIDE DESIGNATED AREAS, USE EXTREME CAUTION TO PREVENT ANY ADDITIONAL DAMAGE.
3) SALVAGE & HAND OVER BUILDING COMPONENTS AS SPECIFIED.
4) DIMENSIONS TO NEW OPENINGS IN EXISTING WALLS REFLECT ACTUAL REQUIRED NEW OPENING SIZE AND NOT ACTUAL REQUIRED SAW CUT. THE NEW FINISHED OPENING EDGES SHALL NOT BE LEFT WITH EXPOSED SAW CUTS OR BROKEN OPEN CELL UNITS. PROVIDE NEW OPENINGS WITH NEW MASONRY UNITS, TOOTHED INTO EXISTING COURSING. PROVIDE BULL–NOSE EDGES TO ALL EXPOSED MASONRY CORNERS.
5) DO NOT STOCKPILE CONSTRUCTION MATERIALS ADJACENT TO THE BUILDING.
6) TEMPORARY SHUT DOWNS OF THE FIRE HOSE SYSTEM OR OTHER FIRE PROTECTION SYSTEMS SHALL COMPLY WITH THE FIRE CODE.
7) ALL REMAINING WALL SURFACES AFFECTED BY THE REMOVAL OF ADJACENT WALLS, EQUIPMENT, CHALKBOARDS, TACKBOARDS, MILLWORK OR OTHER ITEMS SHALL BE PROTECTED.
8) IN ALL LOCATIONS WHERE DEMOLITION & RENOVATION IS TO TAKE PLACE, REMOVE ALL OWNER ATTACHED EQUIPMENT & ITEMS SUCH AS CLOCKS, PENCIL SHARPENERS, PICTURES, PROJECTOR SCREENS, FLAGS, SOAP DISPENSERS, ETC. AND DISPOSE OF.
9) REMOVE ALL UNUSED ELECTRICAL AND MECHANICAL ITEMS FROM WALLS AND CEILINGS (CONDUITS, BOXES, PANELS, DUCTWORK, PIPING, ETC.) GRIND OFF ALL EXISTING ADHESIVE FROM WALL, REMOVE FASTENERS AND INFILL HOLES WITH CEMENT AFTER REMOVAL.
10) REMOVE ALL CHALK & TACK BOARDS AND DISPOSE OF. GRIND OFF ALL EXISTING ADHESIVE FROM WALL, REMOVE FASTENERS AND INFILL HOLES WITH CEMENT AFTER REMOVAL.
11) INCLUDE ALL SHORING COSTS FOR TEMPORARY SUPPORTS.
12) PROTECT FINISHES TO REMAIN FROM DAMAGE.
13) REPAIR ALL EXISTING WALLS, GRIND OFF ALL EXISTING ADHESIVE FROM WALLS, REMOVE FASTENERS AND INFILL HOLES WITH CEMENT, REPAIR DAMAGED MASONRY, MAKE GOOD FINISH, PREPARE FOR PAINT
14) REMOVE AND REINSTALL CEILINGS AND GRID ACOUSTIC TILE TO ACCOMMODATE MECHANICAL / ELECTRICAL WORK BEYOND AREAS INDICATED ON ARCHITECTURAL DRAWINGS.

LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CR	COAT RACKS
CT	CERAMIC TILE
DW	DISHWASHER
DF	DRINKING WATER FOUNTAIN
EC	EMERGENCY CALL
ECS	EMERGENCY CALL SIGNAL
EP	ELECTRICAL PANEL
EW	EYE WASH
EX	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FEX	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
HD	HAND DRYER
KP	KEYPAD
MIR	MIRROR
N.I.C.	NOT IN CONTRACT (SUPPLIED BY OWNER)
NFHB	NON FREEZE HOSE BIB
PB	DOOR OPERATOR PUSH BUTTON
PTD	PAPER TOWEL DISPENSER
REFR	REFRIGERATOR
RUH	RECESSED UNIT HEATER
RWL	RAIN WATER LEADER
SH	SHOWER
SNR	SANITARY NAPKIN RECEPTACLE
SNV	SANITARY NAPKIN VENDOR
TB	TACKBOARD
TPD	TOILET PAPER DISPENSER
WB	WRITING BOARD (MARKERBOARD)
WC1	WALL CONSTRUCTION TYPE 1

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44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
PARTIAL FIRST FLOOR DEMOLITION PLANS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE
4695

TRUE NORTH N
DWG. NORTH N

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JOB NO. 1920
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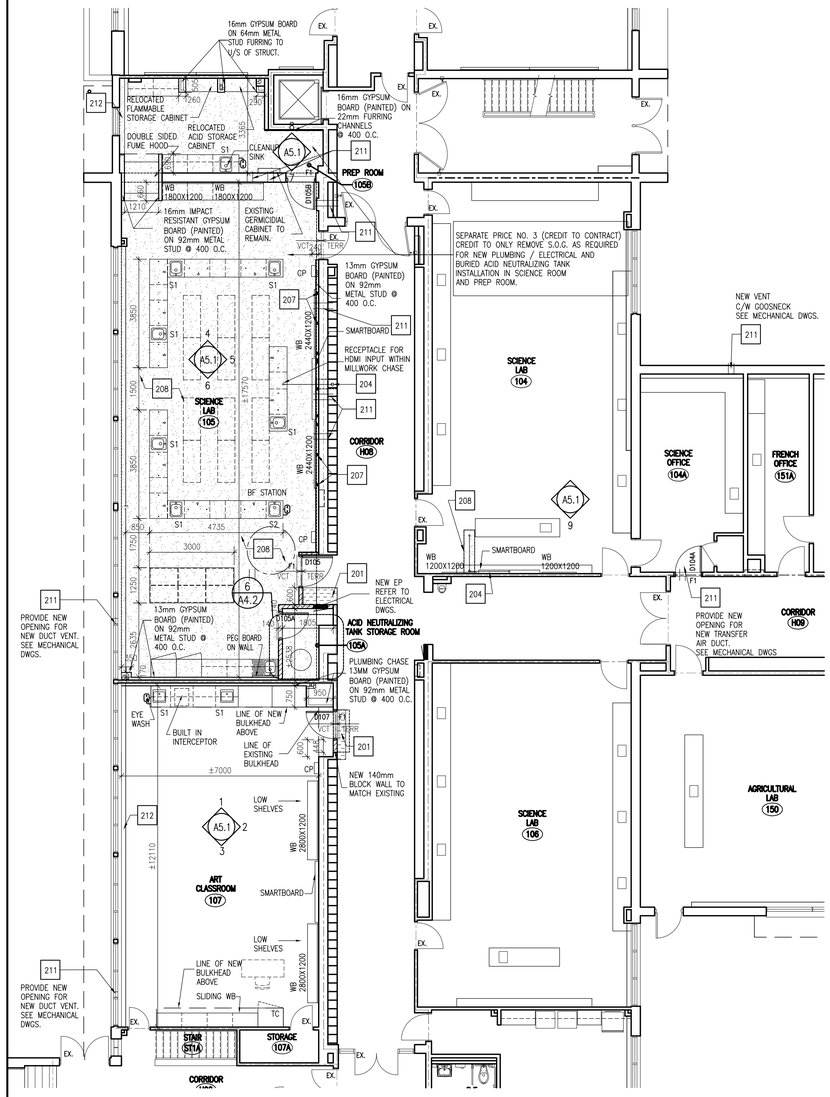
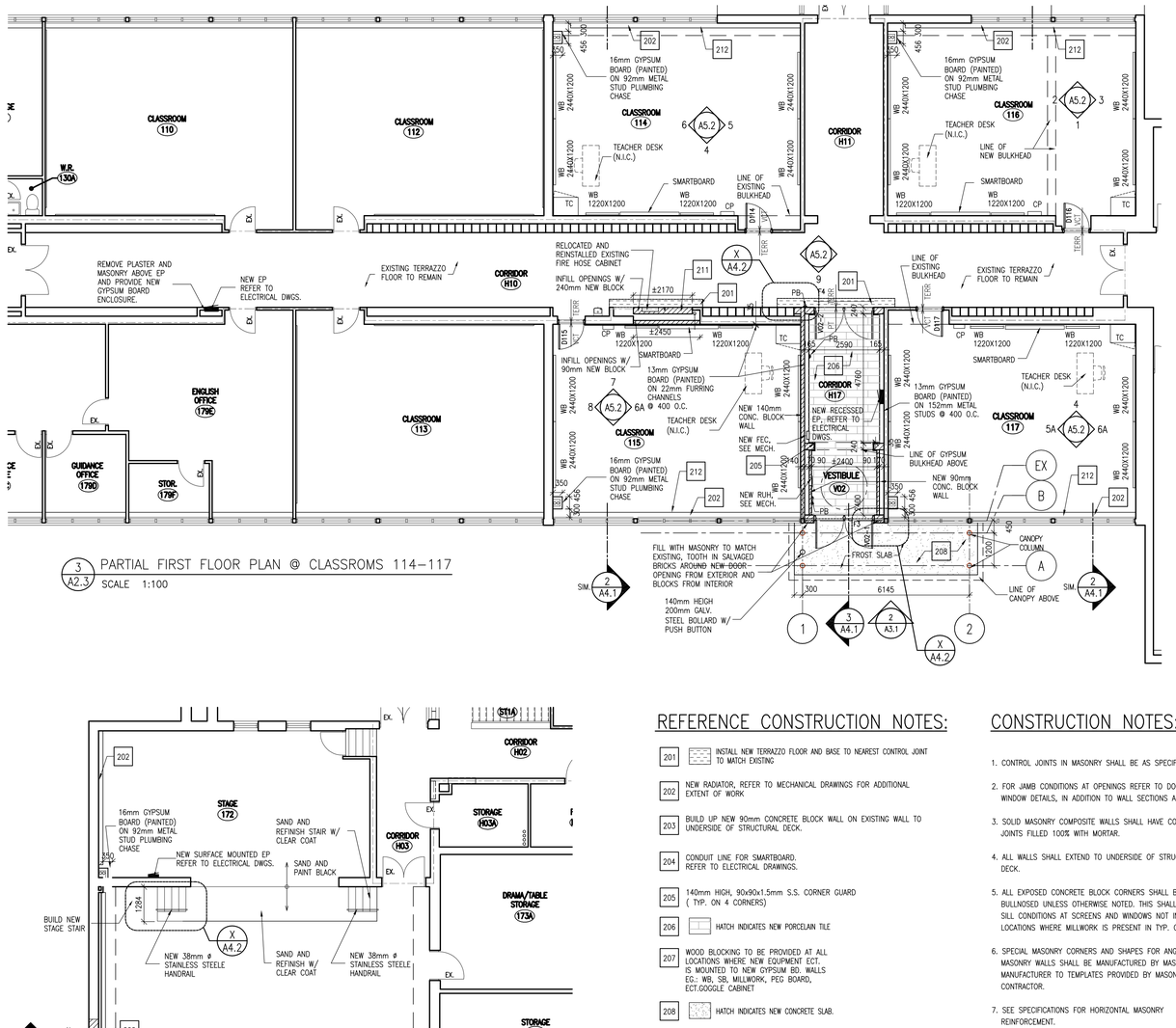


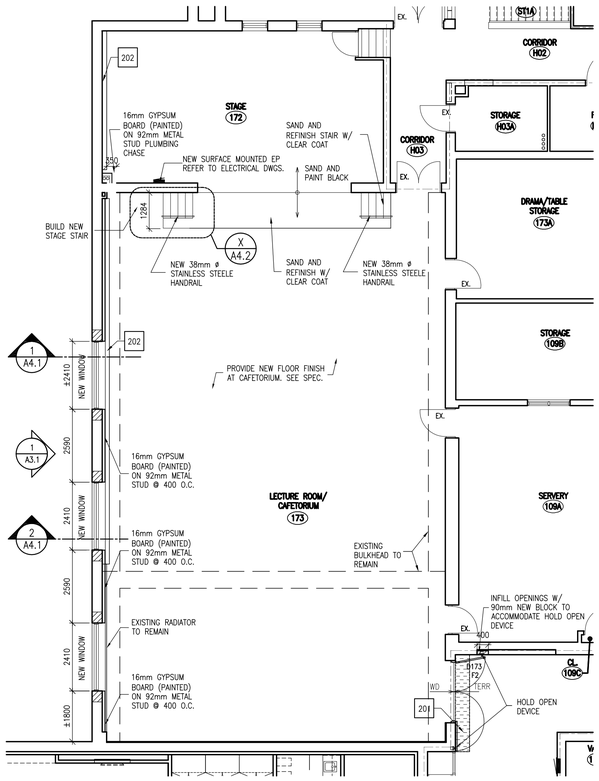
1 A2.3 PARTIAL FLOOR PLAN @ SCIENCE LAB 105 & ART ROOM 107

SCALE 1:100



3 A2.3 PARTIAL FIRST FLOOR PLAN @ CLASSROMS 114–117

SCALE 1:100



2 A2.3 PARTIAL FLOOR PLAN @ CAFETORIUM 173

SCALE 1:100

REFERENCE CONSTRUCTION NOTES:

201 INSTALL NEW TERRAZZO FLOOR AND BASE TO NEAREST CONTROL JOINT TO MATCH EXISTING

202 NEW RADIATOR, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL EXTENT OF WORK

203 BUILD UP NEW 90mm CONCRETE BLOCK WALL ON EXISTING WALL TO UNDERSIDE OF STRUCTURAL DECK.

204 CONDUIT LINE FOR SMARTBOARD. REFER TO ELECTRICAL DRAWINGS.

205 140mm HIGH, 90x90x1.5mm S.S. CORNER GUARD (TYP. ON 4 CORNERS)

206 HATCH INDICATES NEW PORCELAIN TILE

207 WOOD BLOCKING TO BE PROVIDED AT ALL LOCATIONS WHERE NEW EQUPMENT ECT. IS MOUNTED TO NEW GYPSUM BD. WALLS EG.: WB, SB, MILLWORK, PEG BOARD, ECT.GOGGLE CABINET

208 HATCH INDICATES NEW CONCRETE SLAB.

209 HATCH INDICATES NEW ADDITIONAL SANDING / REFINISHING

210 NEW GYPSUM BOARD WALL AND NEW PLASTIC LAMINATE WINDOW SILL

211 PROVIDE NEW OPENING AND LINTEL TO ACCOMMODATE NEW DUCT WORK.

212 NEW PLASTIC LAMINATE WINDOW SILL

GYPSUM BOARD NOTES:

1. PROVIDE MOULD RESISTANT GYPSUM BOARD AT LOWER 200mm OR GYPSUM BOARD WALLS.
2. EXTEND GYPSUM BOARD TO U/S OF DECK UNLESS NOTED OTHERWISE.
3. PROVIDE FIRESTOPPING AT WALL / CEILING LEVEL. INSTALL FIRESTOPPING WITHIN FURRING / METAL STUD.

CONSTRUCTION NOTES:

1. CONTROL JOINTS IN MASONRY SHALL BE AS SPECIFIED
2. FOR JAMB CONDITIONS AT OPENINGS REFER TO DOOR AND WINDOW DETAILS, IN ADDITION TO WALL SECTIONS AND PLANS.
3. SOLID MASONRY COMPOSITE WALLS SHALL HAVE COLLAR JOINTS FILLED 100% WITH MORTAR.
4. ALL WALLS SHALL EXTEND TO UNDERSIDE OF STRUCTURAL DECK.
5. ALL EXPOSED CONCRETE BLOCK CORNERS SHALL BE BULLNOSED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE SILL CONDITIONS AT SCREENS AND WINDOWS NOT INCLUDING LOCATIONS WHERE MILLWORK IS PRESENT IN TYP. CLASSROOMS.
6. SPECIAL MASONRY CORNERS AND SHAPES FOR ANGLED MASONRY WALLS SHALL BE MANUFACTURED BY MASONRY MANUFACTURER TO TEMPLATES PROVIDED BY MASONRY CONTRACTOR.
7. SEE SPECIFICATIONS FOR HORIZONTAL MASONRY REINFORCEMENT.
8. PROVIDE MINIMUM 90MM CONCRETE BLOCK BEHIND ALL BUILT–IN EQUIPMENT (EG. ELECTRICAL PANELS, PULL BOXES, HEATERS, AMPLIFIERS & ETC.). CO–ORDINATE ALL BUILT–IN EQUIPMENT WITH MECHANICAL AND ELECTRICAL TRADES.
9. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT OF MASONRY WALLS, BEAMS & ETC.
10. WHERE ELEVATIONS ARE NOT PROVIDED FOR WB AND TB INSTALLATION, CONFIRM LOCATION WITH OWNER PRIOR TO INSTALLATION
11. FIRESTOPPING SHALL BE PROVIDED AS SPECIFIED AND DETAILED AT TOP OF ALL EXISTING AND NEW WALLS FORMING FIRE SEPARATIONS AND AROUND ALL NEW AND EXISTING PIPE CONDUIT, AND DUCT PENETRATIONS OF FIRE SEPARATIONS
12. PROVIDE OPENINGS THRU WALLS TO ACCOMMODATE INSTALLATION OF NEW DUCTWORK. FOR FIRE DAMPERS AND EXACT NUMBER, SIZE & LOCATION OF DUCTWORK PENETRATION THRU WALLS, REFER TO MECHANICAL DRAWINGS. REFER TO STRUCTURAL DRAWING FOR LINTEL TYPE.

NOTE:

ALL DIMENSIONS ARE +/– AND TO BE SITE VERIFIED PRIOR TO DEMOLITION, CONSTRUCTION, FABRICATION ETC. (TYPICAL FOR ALL CONSTRUCTION DRAWINGS)

LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CR	COAT RACKS
CT	CERAMIC TILE
DW	DISHWASHER
DF	DRINKING WATER FOUNTAIN
EC	EMERGENCY CALL
ECS	EMERGENCY CALL SIGNAL
EP	ELECTRICAL PANEL
EW	EYE WASH
EX	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FEX	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
HD	HAND DRYER
KP	KEYPAD
MIR	MIRROR
N.I.C.	NOT IN CONTRACT (SUPPLIED BY OWNER)
NFHB	NON FREEZE HOSE BIB
PB	DOOR OPERATOR PUSH BUTTON
PTD	PAPER TOWEL DISPENSER
REFR	REFRIGERATOR
RUH	RECESSED UNIT HEATER
RWL	RAIN WATER LEADER
SH	SHOWER
SNR	SANITARY NAPKIN RECEPTACLE
SNV	SANITARY NAPKIN VENDOR
TB	TACKBOARD
TPD	TOILET PAPER DISPENSER
WB	WRITING BOARD (MARKERBOARD)
WC1	WALL CONSTRUCTION TYPE 1

TENDER NUMBER: PUR19-24-ITT

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FEB. 15, 2019	ISSUED FOR OWNERS REVIEW
JAN. 16, 2019	ISSUED FOR COORDINATION

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL FIRST FLOOR PLANS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE
4695

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

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DRAWN: BY: MB
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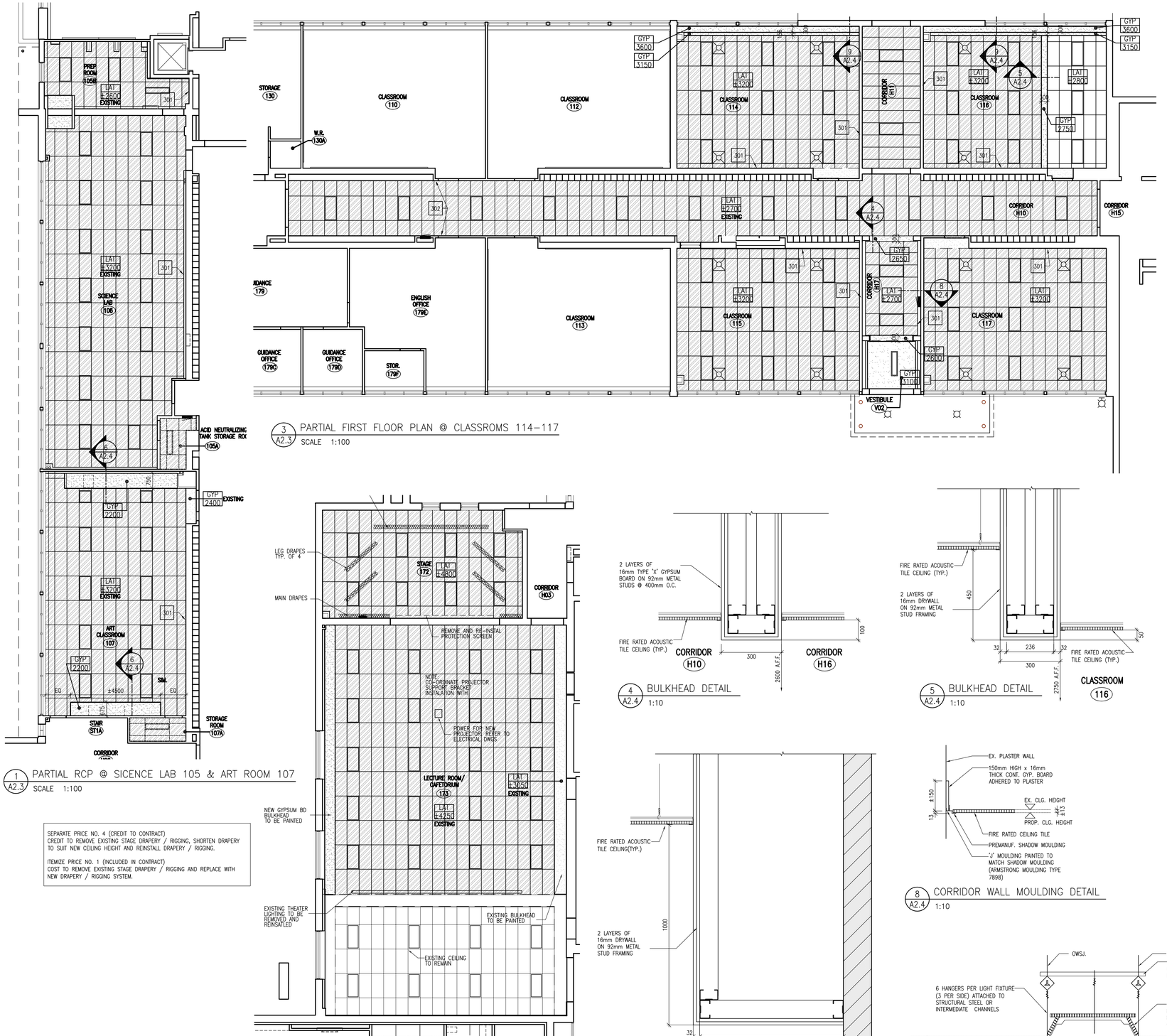
PLOTTED: Tue, 19 Feb. 2019



3 A2.3 PARTIAL FIRST FLOOR PLAN @ CLASSROMS 114–117
SCALE 1:100

1 A2.3 PARTIAL RCP @ SICENCE LAB 105 & ART ROOM 107
SCALE 1:100

SEPARATE PRICE NO. 4 (CREDIT TO CONTRACT)
CREDIT TO REMOVE EXISTING STAGE DRAPERY / RIGGING, SHORTEN DRAPERY TO SUIT NEW CEILING HEIGHT AND REINSTALL DRAPERY / RIGGING.

ITEMIZE PRICE NO. 1 (INCLUDED IN CONTRACT)
COST TO REMOVE EXISTING STAGE DRAPERY / RIGGING AND REPLACE WITH NEW DRAPERY / RIGGING SYSTEM.

2 A2.3 PARTIAL RCP @ CAFETORIUM 173
SCALE 1:100

REFER TO ELECTRICAL DRAWINGS FOR THEATRICAL LIGHTING LAYOUT AND SCOPE OF WORK

4 A2.4 BULKHEAD DETAIL
1:10

5 A2.4 BULKHEAD DETAIL
1:10

6 A2.4 BULKHEAD DETAIL
1:10

8 A2.4 CORRIDOR WALL MOULDING DETAIL
1:10

9 A2.4 BULKHEAD DETAIL
1:10

7 A2.4 TYP. LIGHT FIXTURE PROTECTION IN FIRE RATED CEILING ASSEMBLIES
1:10

REFLECTED CEILING LEGEND:

- NEW ACOUSTIC CEILING TILE
- 1220 X 610 RECESSED LIGHT. REFER TO ELEC. DWGS.
- 1220 X 305 RECESSED LIGHT. REFER TO ELEC. DWGS.
- 610 X 610 RECESSED LIGHT. REFER TO ELEC. DWGS.
- ROUND RECESSED LIGHT. REFER TO ELEC. DWGS.
- WALL MOUNTED LIGHT FIXTURE – SEE ELECTRICAL DWGS.
- 610 X 610 SUPPLY AIR DIFFUSER. REFER TO MECH. DWGS.
- RETURN AIR GRILLE. REFER TO MECH. DWGS.
- CEILING EXHAUST FAN. REFER TO MECH. DWGS.
- GYPSUM BOARD, 2 LAYERS OF 16MM TYPE 'X' FIRE RATED
- DENOTES FIRE RATED CELING
- LAT 2800 — CEILING HEIGHT FROM FINISHED FLOOR. REFER TO ROOM FINISH SCHEDULE
- RADIANT HEATING PANEL – SEE MECH. DWGS.

NOTES:

ALL DIMENSIONS ARE +/- AND TO BE SITE VERIFIED PRIOR TO DEMOLITION, CONSTRUCTION, FABRICATION ETC. (TYPICAL FOR ALL CONSTRUCTION DRAWINGS)

301 PROVIDE CONTINUOUS FIRE STOPPING (± 125mm HIGH), BOTH SIDES OF WALL

302 PROVIDE CONTINUOUS FIRE STOPPING (± 125mm HIGH), ONE SIDES OF WALL

LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CR	COAT RACKS
CT	CERAMIC TILE
DW	DISHWASHER
DF	DRINKING WATER FOUNTAIN
EC	EMERGENCY CALL
ECS	EMERGENCY CALL SIGNAL
EP	ELECTRICAL PANEL
EW	EYE WASH
EX	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FEX	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
HD	HAND DRYER
KP	KEYPAD
MIR	MIRROR
N.I.C.	NOT IN CONTRACT (SUPPLIED BY OWNER)
NFHB	NON FREEZE HOSE BIB
PB	DOOR OPERATOR PUSH BUTTON
PTD	PAPER TOWEL DISPENSER
REFR	REFRIGERATOR
RUH	RECESSED UNIT HEATER
RWL	RAIN WATER LEADER
SH	SHOWER
SNR	SANITARY NAPKIN RECEPTACLE
SNV	SANITARY NAPKIN VENDOR
TB	TACKBOARD
TPD	TOILET PAPER DISPENSER
WB	WRITING BOARD (MARKERBOARD)
WC1	WALL CONSTRUCTION TYPE 1

NOTES:

1. TYPICAL CLASSROOM CEILING HEIGHT 3600 A.F.F. UNLESS OTHERWISE NOTED.
2. TYPICAL CORRIDOR CEILING HEIGHT 2700 A.F.F. UNLESS OTHERWISE NOTED.
3. IN AREA INDICATED AS EXPOSED STRUCTURE, DUCTWORK/ PIPEWORK/ CONDUIT ETC. SHALL BE MOUNTED TIGHT TO U/S OF SLAB OR DECK; ROUTED PARALLEL & PERPENDICULAR TO WALLS. ALL EXPOSED STRUCTURE, DUCTWORK ETC TO BE PAINTED.
4. REFER TO ELECTRICAL DRAWINGS FOR EXACT TYPE, LOCATION, AND NUMBER OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTOR, ETC.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER OF PENETRATIONS IN CEILING FOR DIFFUSERS, GRILLES, ACCESS OPENINGS, ETC. PROVIDE HANGERS & FRAMING TO SUIT MECHANICAL OPENINGS AND BULKHEADS.
6. PROVIDE OPENINGS THRU WALLS TO ACCOMMODATE INSTALLATION OF DUCTWORK. FOR FIRE DAMPERS AND EXACT NUMBER, SIZE & LOCATION OF DUCTWORK PENETRATION THRU WALLS, REFER TO MECHANICAL DRAWINGS. REFER TO STRUCTURAL DRAWING FOR LINTEL TYPE.
7. ALL GYPSUM BOARD CEILINGS AND BULKHEADS IN FIRE RATED CEILINGS ARE TO BE OF 2 LAYERS OF 16MM TYPE 'X' GYPSUM BOARD
8. INSTALL CEILINGS TO ULC R210 AND ULC I217 REQUIREMENTS INCLUDING FIRE RATED PROTECTION AROUND LIGHT FIXTURES

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
PARTIAL FIRST FLOOR REFLECTED CEILING PLANS

ONTARIO ASSOCIATION OF ARCHITECTS
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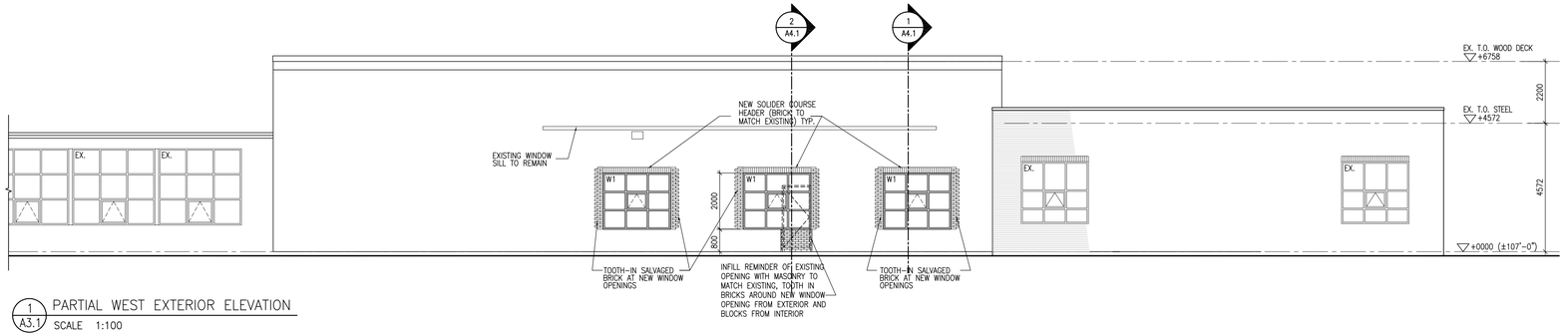
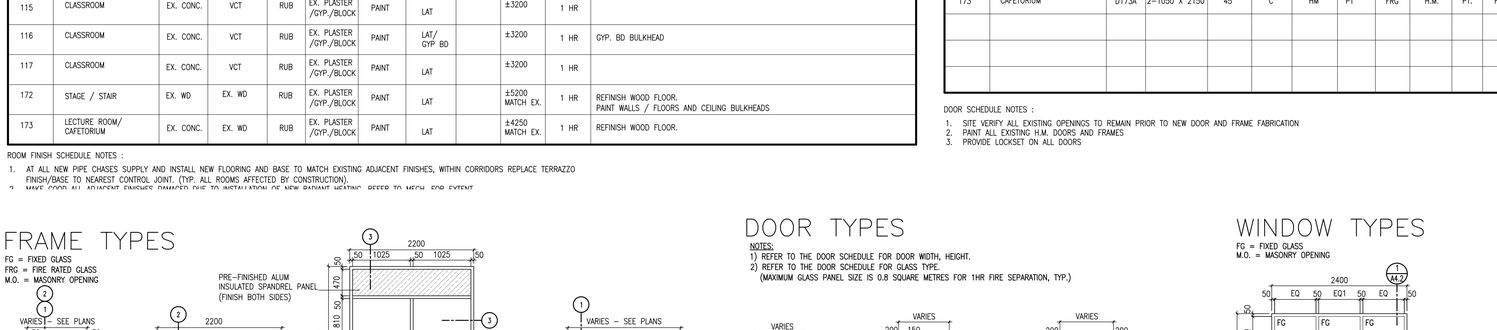
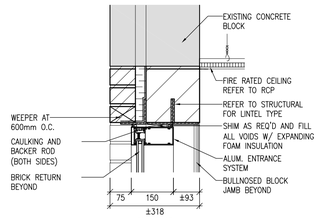


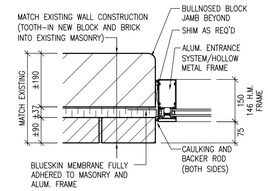
1 A3.1 PARTIAL WEST EXTERIOR ELEVATION
SCALE 1:100



2 A3.1 PARTIAL SOUTH EXTERIOR ELEVATION
SCALE 1:100



H3: HEAD DETAIL



J3: JAMB DETAIL

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR			WALLS		CEILING				REMARKS
		MATERIAL	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	RATING	
FIRST FLOOR											
H08	CORRIDOR	EX. CONC.	EX. TERR /TERR	EX. TERR /TERR	EX. PLASTER/ NEW BLOCK	PAINT	LAT		±2700 MATCH EX.	1 HR	REINSTALL EXISTING LIGHT FIXTURES, DIFFUSERS, GRILLES, ETC. INTO NEW ACOUSTIC TILE CEILING
H10	CORRIDOR	EX. CONC.	EX. TERR /TERR	EX. TERR /TERR	EX. PLASTER/ NEW BLOCK	PAINT	LAT		±2700 MATCH EX.	1 HR	REINSTALL EXISTING LIGHT FIXTURES, DIFFUSERS, GRILLES, ETC. INTO NEW ACOUSTIC TILE CEILING, REPLACE TERRAZZO FLOOR AND BASE
H11	CORRIDOR	EX. CONC.	EX. TERR /TERR	EX. TERR /TERR	EX. PLASTER/ NEW BLOCK	PAINT	LAT/GB		±2700 MATCH EX.	1 HR	GYP. BD BULKHEAD
H17	CORRIDOR	EX. CONC.	PT	PT	NEW BLOCK/ GYP. BD	PAINT	LAT/GB		±2700 MATCH EX.	1 HR	GYP. BD BULKHEAD
V02	VESTIBULE	EX. CONC.	PT	PT	NEW BLOCK	PAINT	GYP.	PAINT	±3200	1 HR	
105	SCIENCE LAB	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±3200	1 HR	
105A	ACID NEUTRALIZING TANK STORAGE ROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±2600	1 HR	
105B	PREP ROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±2600 MATCH EX.	1 HR	
107	ART ROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT/ GYP BD		±3200	1 HR	GYP. BD BULKHEAD
107A	STORAGE ROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±2600 MATCH EX.	1 HR	
114	CLASSROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT/ GYP BD		±3200	1 HR	GYP. BD BULKHEAD
115	CLASSROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±3200	1 HR	
116	CLASSROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT/ GYP BD		±3200	1 HR	GYP. BD BULKHEAD
117	CLASSROOM	EX. CONC.	VCT	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±3200	1 HR	
172	STAGE / STAIR	EX. WD	EX. WD	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±5200 MATCH EX.	1 HR	REFINISH WOOD FLOOR. PAINT WALLS / FLOORS AND CEILING BULKHEADS
173	LECTURE ROOM/ CAFETORIUM	EX. CONC.	EX. WD	RUB	EX. PLASTER /GYP./BLOCK	PAINT	LAT		±4250 MATCH EX.	1 HR	REFINISH WOOD FLOOR.

ROOM FINISH SCHEDULE NOTES :

1. AT ALL NEW PIPE CHASES SUPPLY AND INSTALL NEW FLOORING AND BASE TO MATCH EXISTING ADJACENT FINISHES, WITHIN CORRIDORS REPLACE TERRAZZO FINISH/BASE TO NEAREST CONTROL JOINT. (TYP. ALL ROOMS AFFECTED BY CONSTRUCTION).
2. MAKE GOOD ALL ADJACENT FINISHES DAMAGED DUE TO INSTALLATION OF NEW RADIANT HEATING. REFER TO MECH. FOR EXTENT

DOOR AND FRAME SCHEDULE

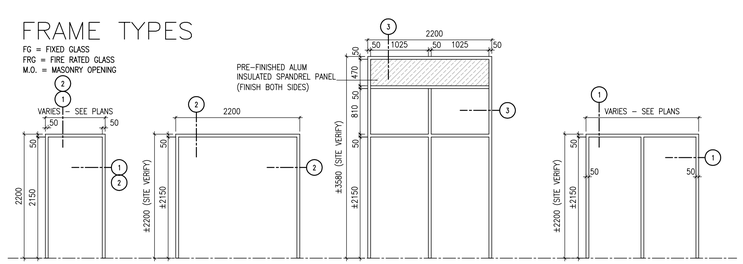
ROOM NO.	ROOM NAME	DOOR No.	DOOR						FRAME				REQUIRED F.R.R.	ULC CLOSER	REMARKS
			SIZE	THICKNESS	TYPE	MATERIAL	FINISH	GLASS	MATERIAL	FINISH	TYPE	HEAD/JAMB			
FIRST FLOOR															
V02-1	VESTIBULE 02	V02-1	2-1050 X 2150	45	C	ALUM	–	LAM	ALUM	–	F3				FIXED MULLION, PUSH BUTTON DOOR OPERATOR, WEATHERSTRIPP, DOUBLE GLAZED
V02-2	CORRIDOR	H10	2-1050 X 2150	45	C	HM	PT	LAM	H.M.	PT.	F2A				FIXED MULLION, PUSH BUTTON DOOR OPERATOR PUSH/ PULL
104A	SCIENCE OFFICE	D105	±900 X ±2150	45	B	WD	P.LAM	FRG	EX.	PT.	EX.		1HR	YES	EXISTING OPENING (SITE VERIFY) / OFFSET HINGES
105	SCIENCE LAB	D105	960 X 2150	45	B	WD	P.LAM	FRG	H.M.	PT.	F1		1HR	YES	EXISTING OPENING WIDENED TO SUIT B.F. REQUIREMENTS, EXISTING HEIGHT TO REMAIN (SITE VERIFY)
105A	ACID NEUTRALIZING TANK STORAGE ROOM	D105A	960 X 2150	45	A	WD	P.LAM	–	H.M.	PT.	F1				
105B	PREP ROOM	D105B	960 X 2150	45	B	WD	P.LAM	FRG	H.M.	PT.	F1				
107	ART ROOM	D107	960 X 2150	45	B	WD	P.LAM	FRG	H.M.	PT.	F1		45 MIN		
114	CLASSROOM	D114	±900 X ±2150	45	B	WD	P.LAM	FRG	H.M.	PT.	EX		20 MIN		EXISTING OPENING (SITE VERIFY) / OFFSET HINGES
115	CLASSROOM	D115	±900 X ±2150	45	B	WD	P.LAM	FRG	H.M.	PT.	EX		20 MIN		EXISTING OPENING (SITE VERIFY) / OFFSET HINGES
116	CLASSROOM	D116	±900 X ±2150	45	B	WD	P.LAM	FRG	H.M.	PT.	EX		20 MIN		EXISTING OPENING (SITE VERIFY) / OFFSET HINGES
117	CLASSROOM	D117	±900 X ±2150	45	B	WD	P.LAM	FRG	H.M.	PT.	EX		20 MIN		EXISTING OPENING (SITE VERIFY) / OFFSET HINGES
173	CAFETORIUM	D173A	2-1050 X 2150	45	C	HM	PT	FRG	H.M.	PT.	F2		45 MIN	YES	HOLD OPEN DEVICE

DOOR SCHEDULE NOTES :

1. SITE VERIFY ALL EXISTING OPENINGS TO REMAIN PRIOR TO NEW DOOR AND FRAME FABRICATION
2. PAINT ALL EXISTING H.M. DOORS AND FRAMES
3. PROVIDE LOCKSET ON ALL DOORS

FRAME TYPES

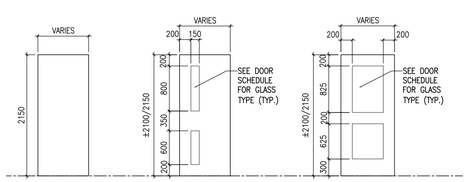
FG = FIXED GLASS
FRG = FIRE RATED GLASS
M.O. = MASONRY OPENING



F1 TYPICAL INTERIOR SINGLE DOOR
F2 CAFETORIUM 173
F3 VESTIBULE V02-1
F4 VESTIBULE V02 FRAME V02-2

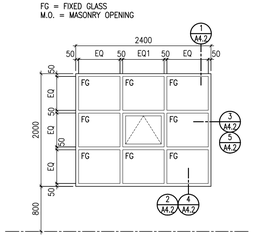
DOOR TYPES

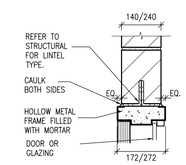
NOTES:
1) REFER TO THE DOOR SCHEDULE FOR DOOR WIDTH, HEIGHT.
2) REFER TO THE DOOR SCHEDULE FOR GLASS TYPE.
(MAXIMUM GLASS PANEL SIZE IS 0.8 SQUARE METRES FOR 1HR FIRE SEPARATION, TYP.)



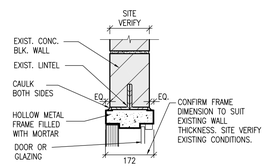
WINDOW TYPES

FG = FIXED GLASS
M.O. = MASONRY OPENING





H1: HEAD DETAIL



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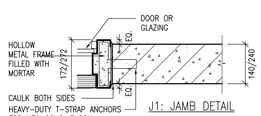
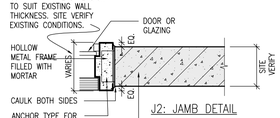


J1: JAMB DETAIL



J2: JAMB DETAIL

HOLLOW METAL FRAME NOTES

1) FRAMES CAULKED ALL AROUND BOTH SIDES.
2) ALL EXTERIOR DOORS AND FRAMES COMPLETE WITH WEATHERSTRIPPING AND THRESHOLD.
3) REMOVABLE MULLION BY H.M. CONTRACTOR. REFER TO DOOR SCHEDULE.
4) H.M. CONTRACTOR SHALL PREPARE DOORS AND FRAMES FOR SECURITY ALARM DEVICES TO TEMPLATES PROVIDED BY SECURITY ALARM CONTRACTOR.
5) H.M. CONTRACTOR SHALL PREPARE DOORS AND FRAMES FOR HANDICAPPED DOOR OPENING DEVICES.
6) FILL ALL H.M. DOOR FRAMES SOLID WITH MORTAR.

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

EXTERIOR ELEVATIONS
DOOR SCHEDULE
ROOM FINISH SCHEDULE

ONTARIO ASSOCIATION OF ARCHITECTS
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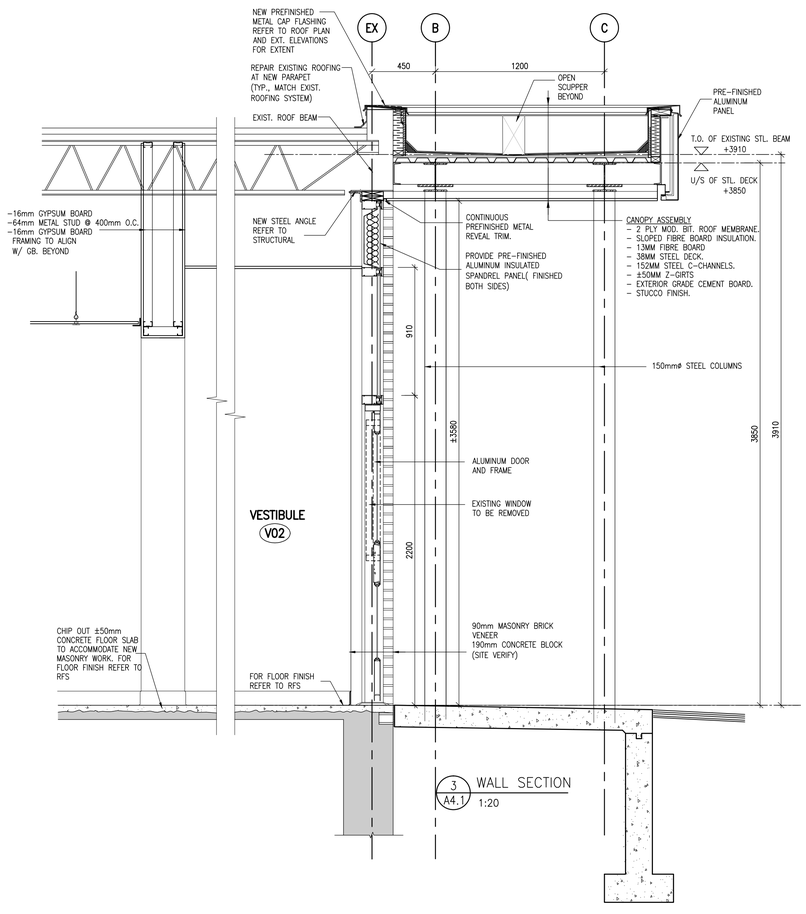
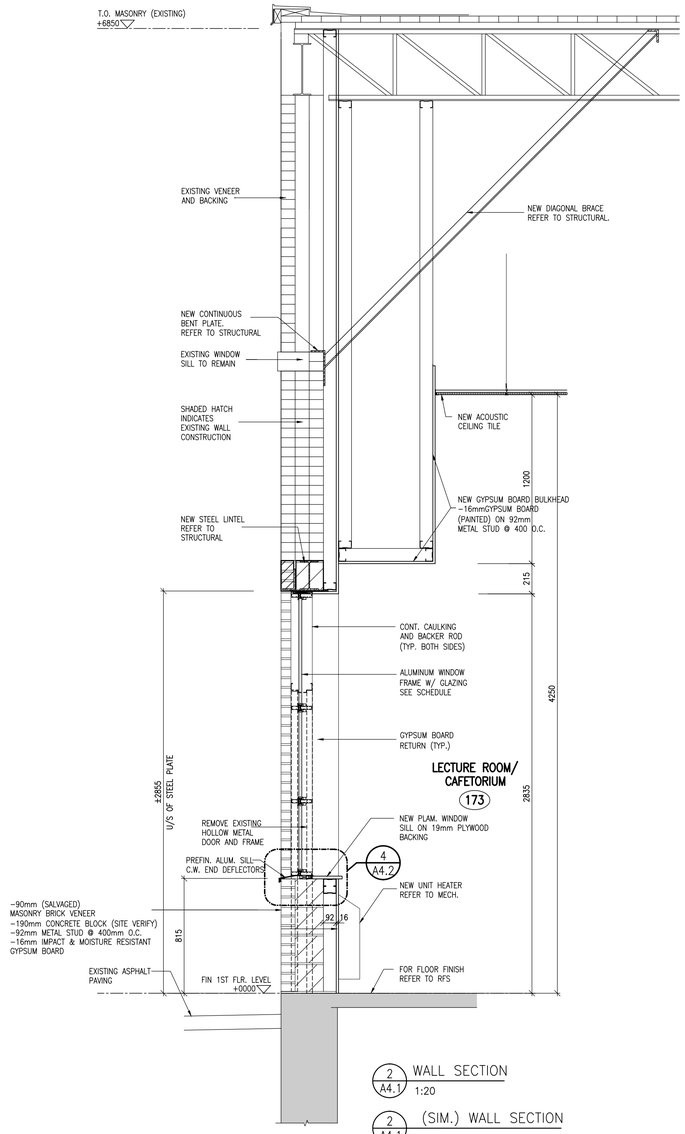
SEPARATE PRICE NO. 1 (CREDIT TO CONTRACT)
COST TO CONSTRUCT EXTERIOR CANOPY AT VESTIBULE V02

NOTE: COST OF NEW ENTRANCE, EXTERIOR CONCRETE FOUNDATION/ COLUMN FOOTINGS, BASE PLATES AND EXTERIOR SLAB TO BE INCLUDED IN BASE CONTRACT.



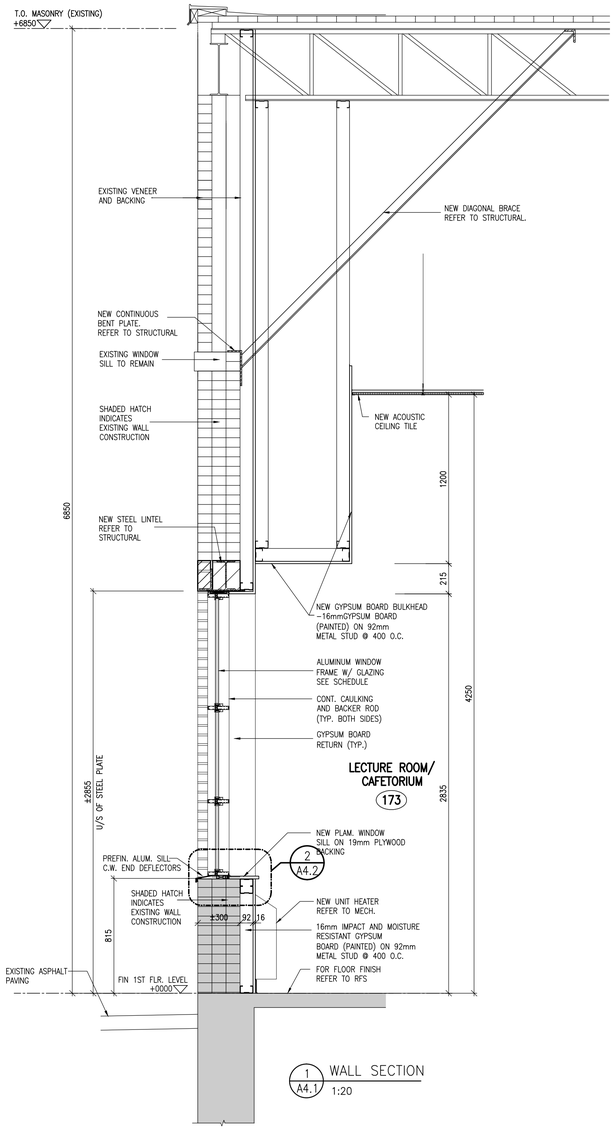
3 A4.1 WALL SECTION
1:20



2 A4.1 WALL SECTION
1:20

2 A4.1 (SIM.) WALL SECTION
1:20

NOTE:
PROVIDE 38mm BACK INSULATION
6mm VAPOUR BARRIER
16mm GYPSUM BOARD OVER
22mm METAL FURRING CHANNEL @ 400 O.C.
AT CLASSROOMS: 114, 115, 116 & 117



1 A4.1 WALL SECTION
1:20

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CPT	CARPET TILE
CWT	CERAMIC WALL TILE
DW	DISHWASHER
EP	ELECTRICAL PANEL
EX.	EXISTING
EXIST.	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIR HOSE CABINET
FRG	FIRE RATED GLASS
G.B.	GYPSUM BOARD
HD	HAND DRYER
H.M.	HOLLOW METAL
LAT	LAY-IN ACOUSTIC TILE
MIR	MIRROR
N.I.C.	NOT IN CONTRACT
PT	PORCELAIN TILE
QT	QUARRY TILE
REF	REFRIGERATOR
SB	SMARTBOARD
TB	TACKBOARD
VCT	VINYL COMPOSITE TILE
WB	WHITEBOARD
WD	WOOD

TENDER NUMBER: PUR19-24-ITT

DATE	REVISIONS
FEB. 19, 2019	ISSUED FOR TENDER AND PERMIT
FEB. 15, 2019	ISSUED FOR OWNERS REVIEW

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

WALL SECTIONS

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

DATE DEC. 2018

PRINTED February 19, 2019

DWG. NO. A4.1

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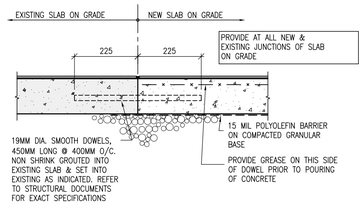
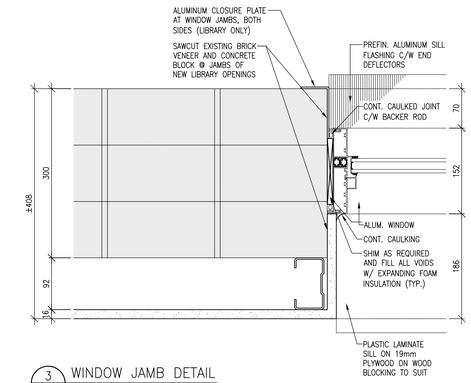
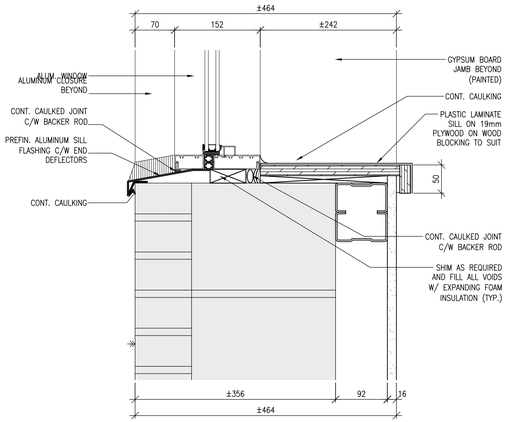


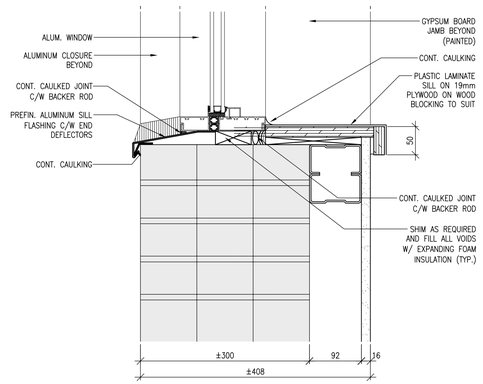
6 A4.2 SLAB ON GRADE INTERFACE
N.T.S.



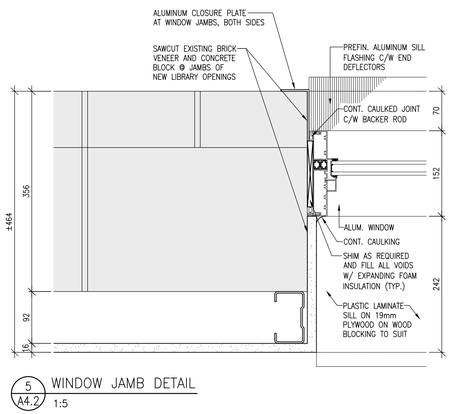
3 A4.2 WINDOW JAMB DETAIL
1:5



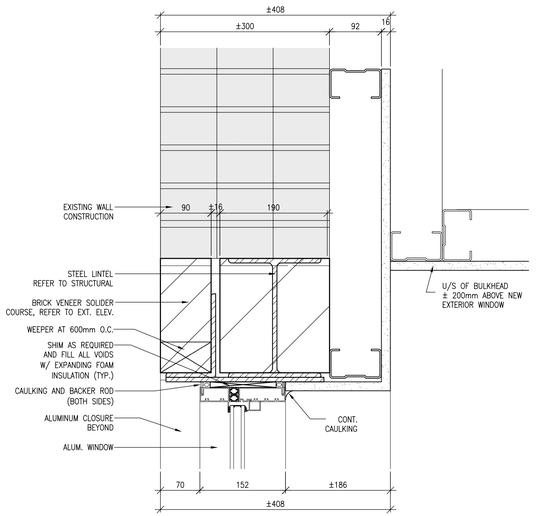
4 A4.2 WINDOW SILL DETAIL
1:5



2 A4.2 WINDOW SILL DETAIL
1:5



5 A4.2 WINDOW JAMB DETAIL
1:5



1 A4.2 WINDOW HEAD DETAIL
1:5 TYPICAL AT ALL NEW CONCRETE SLAB ON GRADE

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CPT	CARPET TILE
CWT	CERAMIC WALL TILE
DW	DISHWASHER
EP	ELECTRICAL PANEL
EX.	EXISTING
EXIST.	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIR HOSE CABINET
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G.B.	GYPSUM BOARD
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PT	PORCELAIN TILE
QT	QUARRY TILE
REF	REFRIGERATOR
SB	SMARTBOARD
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VCT	VINYL COMPOSITE TILE
WB	WHITEBOARD
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

SECTION DETAILS
STAIR DETAILS

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

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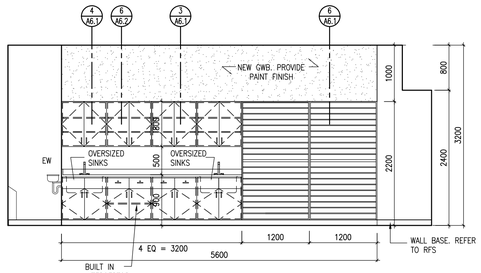
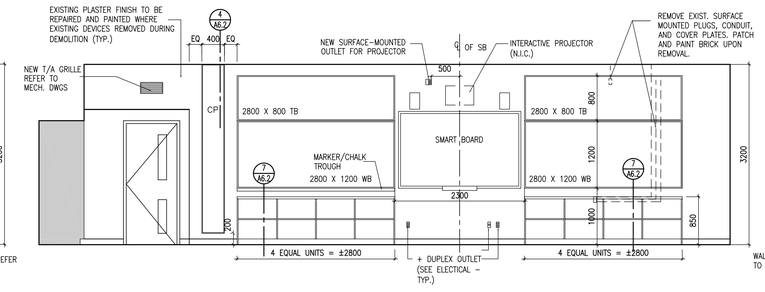
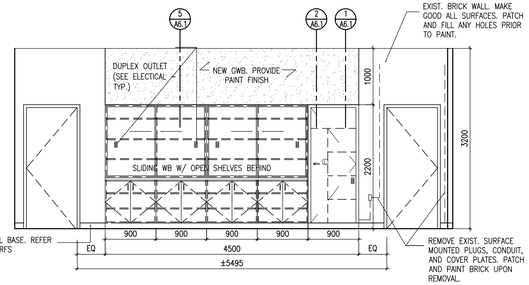


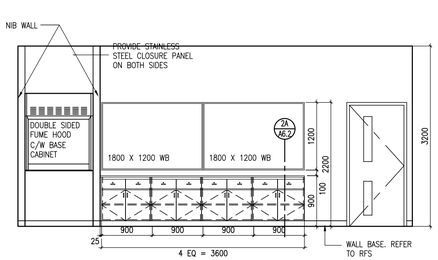
1 A5.1 ART CLASSROOM 107 NORTH ELEVATION
SCALE 1:50



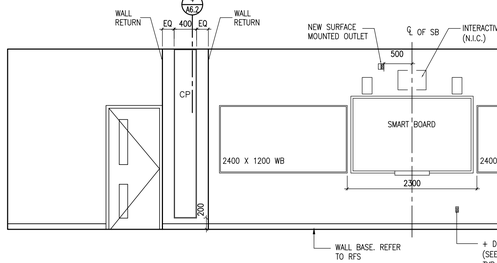
2 A5.1 ART CLASSROOM 107 EAST ELEVATION
SCALE 1:50



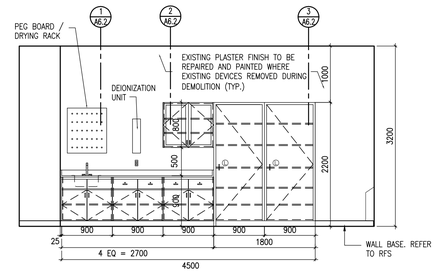
3 A5.1 ART CLASSROOM 107 SOUTH ELEVATION
SCALE 1:50



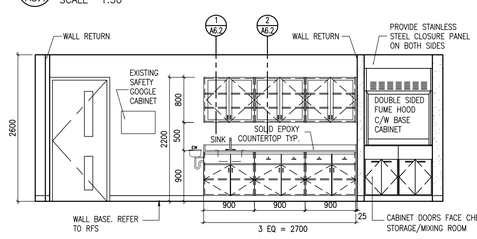
4 A5.1 SCIENCE ROOM 105 NORTH ELEVATION
SCALE 1:50



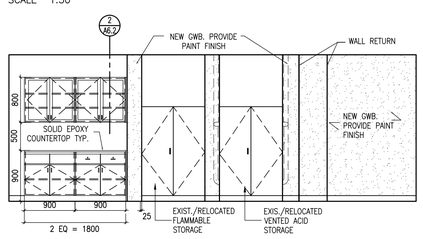
5 A5.1 SCIENCE ROOM 105 EAST ELEVATION
SCALE 1:50



6 A5.1 SCIENCE ROOM 104 SOUTH ELEVATION
SCALE 1:50



7 A5.1 PREP ROOM 105A SOUTH ELEVATION
SCALE 1:50



8 A5.1 PREP ROOM 105A SOUTH ELEVATION
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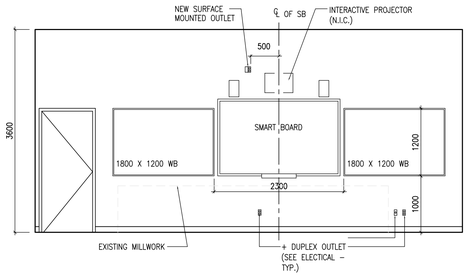
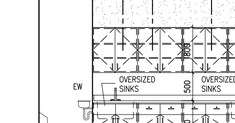


9 A5.1 SCIENCE LAB 104 SOUTH ELEVATION
SCALE 1:50

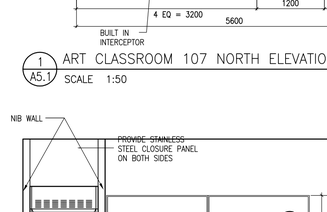


10 A5.1 TEACHER WORK STATION – REAR
SCALE 1:30

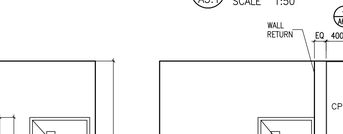
11 A5.1 TEACHER WORK STATION – FRONT
SCALE 1:30

12 A5.1 SCIENCE ROOM WORK STATION – FRONT
SCALE 1:30

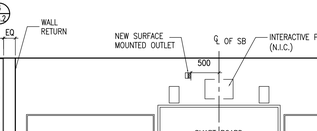
13 A5.1 SCIENCE ROOM WORK STATION – SIDE
SCALE 1:30



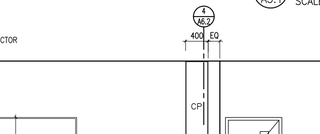
14 A5.1 SCIENCE ROOM WORK STATION – FRONT
SCALE 1:30



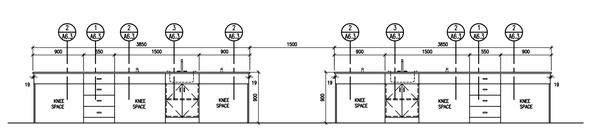
15 A5.1 SCIENCE ROOM WORK STATION – REAR
SCALE 1:30



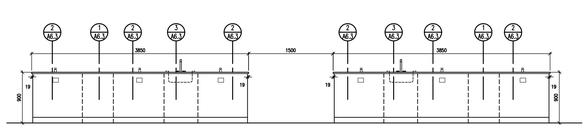
16 A5.1 SCIENCE ROOM WORK STATION – FRONT
SCALE 1:30



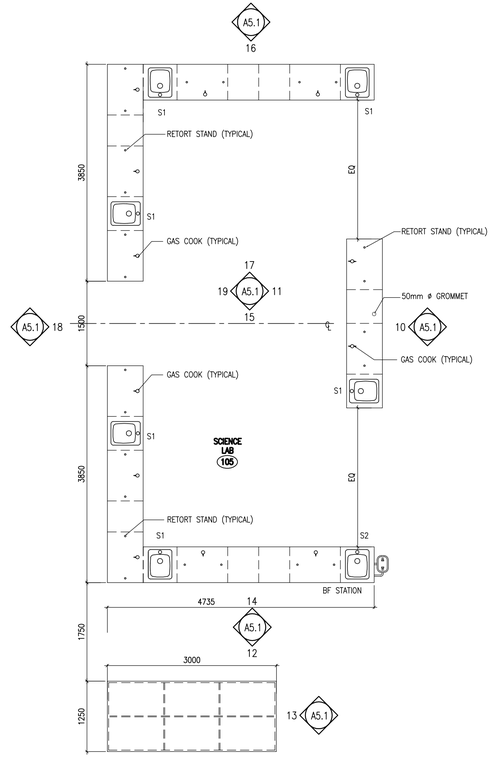
17 A5.1 SCIENCE ROOM WORK STATION – REAR
SCALE 1:30



18 A5.1 SCIENCE ROOM WORK STATION – FRONT
SCALE 1:30



19 A5.1 SCIENCE ROOM WORK STATION – FRONT
SCALE 1:30



20 A5.1 SCIENCE ROOM MILLWORK LAYOUT
SCALE 1:30

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CPT	CARPET TILE
CWT	CERAMIC WALL TILE
DW	DISHWASHER
EP	ELECTRICAL PANEL
EX.	EXISTING
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FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
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PT	PORCELAIN TILE
QT	QUARRY TILE
REF	REFRIGERATOR
SB	SMARTBOARD
TB	TACKBOARD
VCT	VINYL COMPOSITE TILE
WB	WHITEBOARD
WD	WOOD
T/A	TRANSFER AIR

NOTE:

1. CONFIRM SMART BOARD AND WHITE BOARD MOUNTING HEIGHTS WITH CONSULTANT PRIOR TO INSTALLATION

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

INTERIOR ELEVATIONS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE
4695

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

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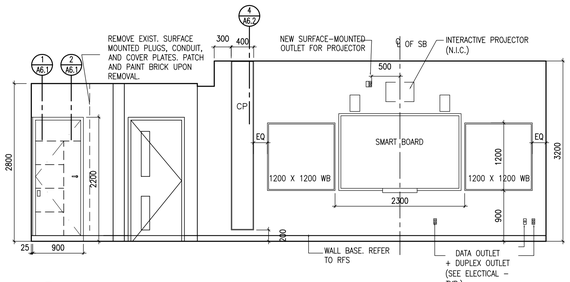
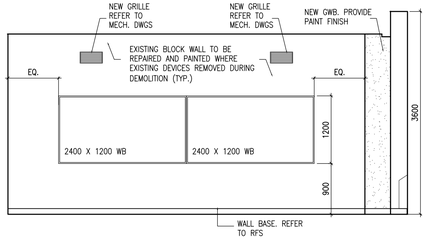
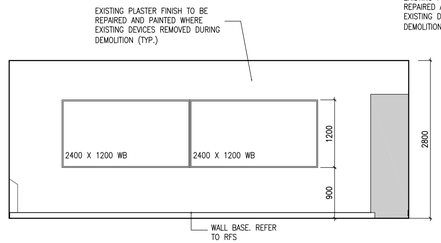
DRAWN BY: MB
PLOTTED: LAST PLOT
PLOTTED: Feb. 19 / 19, 2019



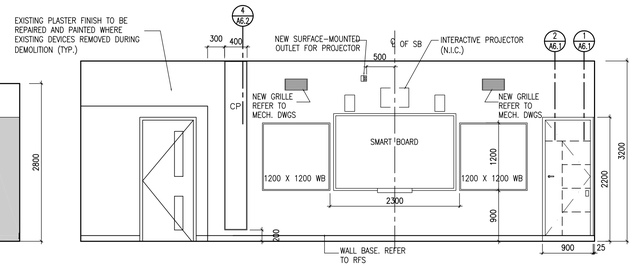
1 A5.2 CLASSROOM 116 SOUTH ELEVATION
SCALE 1:50



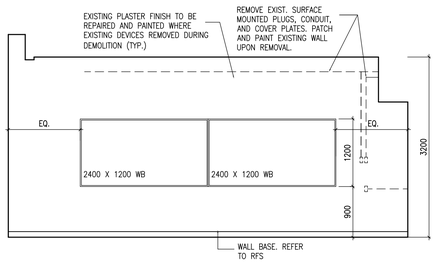
2 A5.2 CLASSROOM 116 WEST ELEVATION
SCALE 1:50



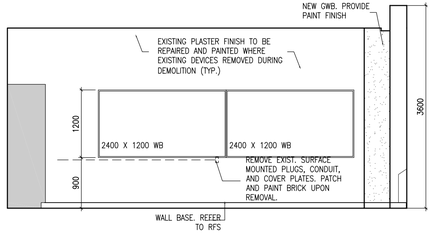
3 A5.2 CLASSROOM 116 EAST ELEVATION
SCALE 1:50



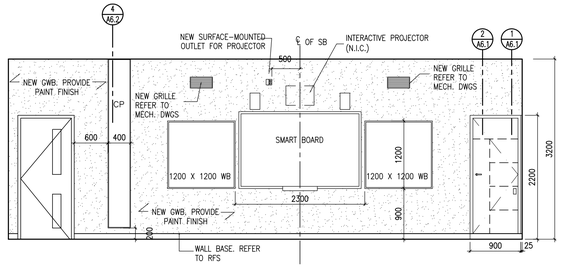
4 A5.2 CLASSROOM 117 NORTH & 114 SOUTH ELEVATION
SCALE 1:50



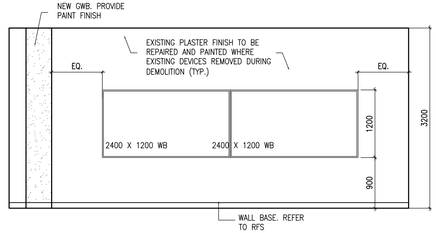
5 A5.2 CLASSROOM 114 EAST ELEVATION
SCALE 1:50



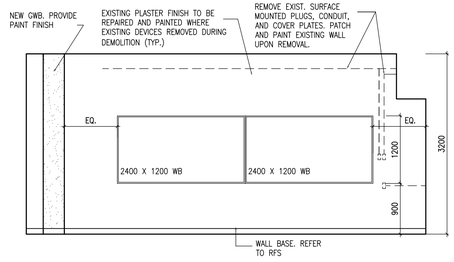
6 A5.2 CLASSROOM 114 WEST ELEVATION
SCALE 1:50



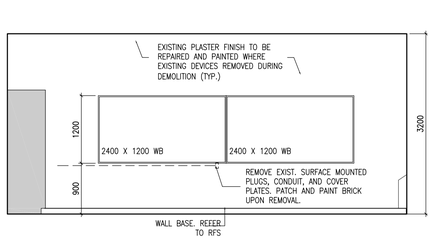
7 A5.2 CLASSROOM 115 NORTH ELEVATION
SCALE 1:50



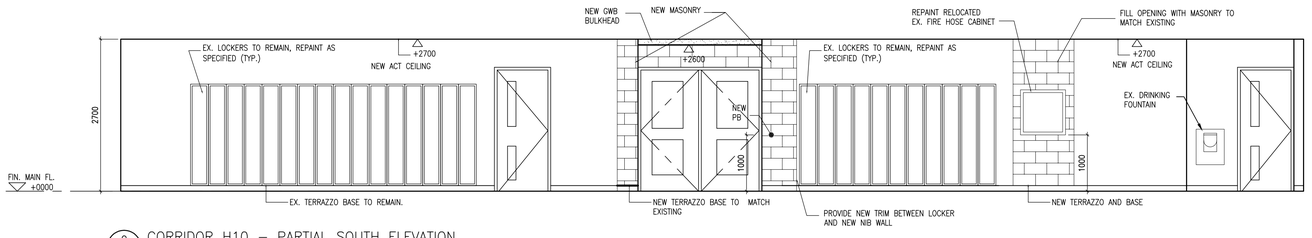
8 A5.2 CLASSROOM 115 WEST ELEVATION
SCALE 1:50



5 A A5.2 CLASSROOM 117 WEST & 114 EAST ELEVATION
SCALE 1:50



6A A5.2 CLASSROOM 115 & 117 EAST
SCALE 1:50



9 A5.2 CORRIDOR H10 – PARTIAL SOUTH ELEVATION
SCALE 1:50

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CPT	CARPET TILE
CWT	CERAMIC WALL TILE
DW	DISHWASHER
EP	ELECTRICAL PANEL
EX.	EXISTING
EXIST.	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIR HOSE CABINET
FRG	FIRE RATED GLASS
G.B.	GYPSUM BOARD
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H.M.	HOLLOW METAL
LAT	LAY-IN ACOUSTIC TILE
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N.I.C.	NOT IN CONTRACT
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REF	REFRIGERATOR
SB	SMARTBOARD
TB	TACKBOARD
VCT	VINYL COMPOSITE TILE
WB	WHITEBOARD
WD	WOOD
T/A	TRANSFER AIR

NOTE:

1. CONFIRM SMART BOARD AND WHITE BOARD MOUNTING HEIGHTS WITH CONSULTANT PRIOR TO INSTALLATION

TENDER NUMBER: PUR19-24-ITT

DATE	REVISIONS
FEB. 19, 2019	ISSUED FOR TENDER AND PERMIT
FEB. 15, 2019	ISSUED FOR OWNERS REVIEW

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
INTERIOR ELEVATIONS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE
4695

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

DATE DEC. 2018

PRINTED February 19, 2019

DWG. NO. A5.2

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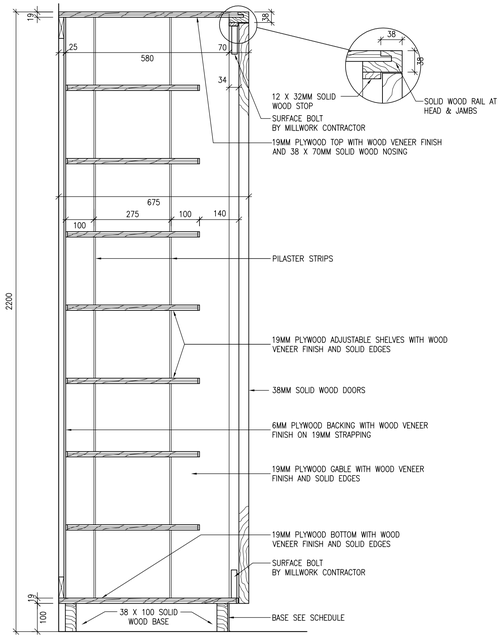
DRAWN BY:MD
FILE:1536 LAYOUT2
PLOTTED: Tue, Feb 19, 2019



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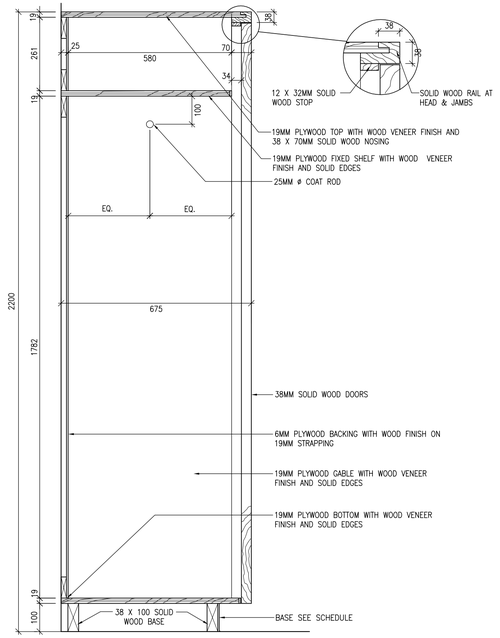
SCALE 1:10



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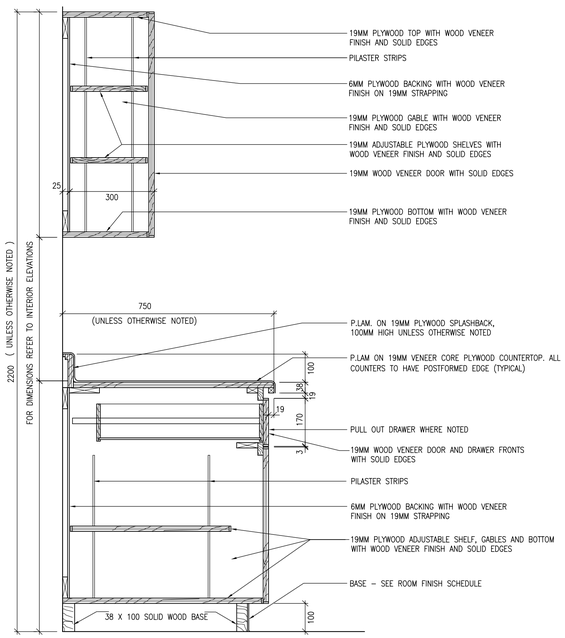

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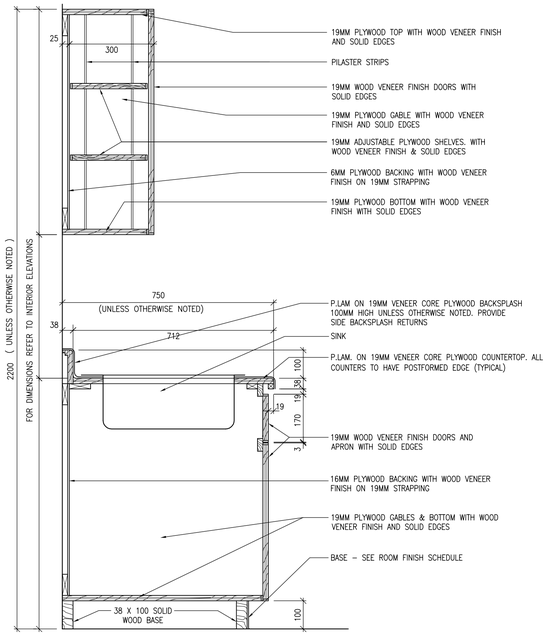

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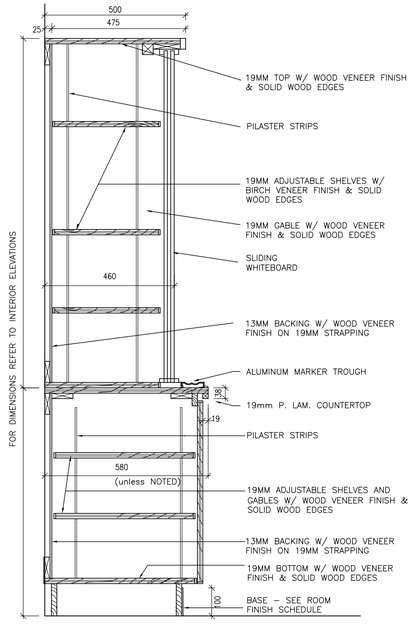

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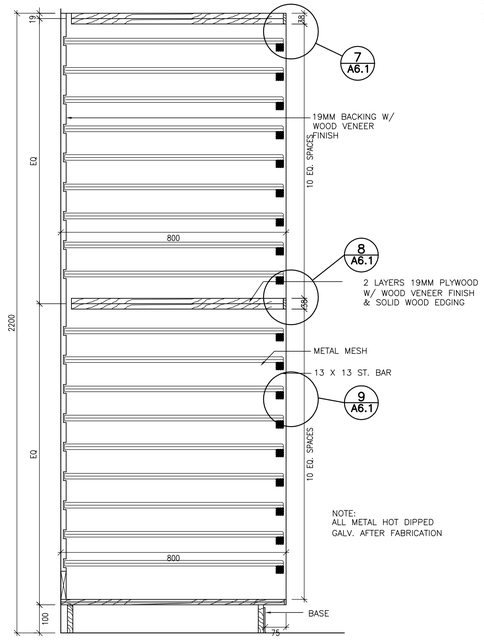

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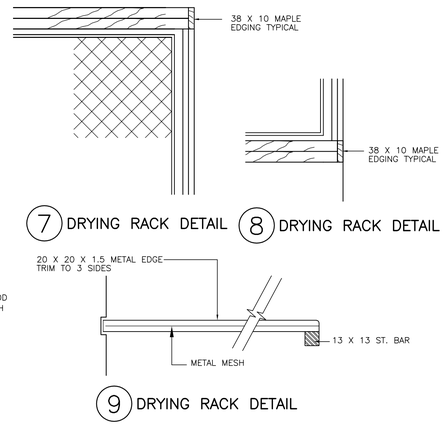

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
CP	CONTROL PANEL
CPT	CARPET TILE
CWT	CERAMIC WALL TILE
DW	DISHWASHER
EP	ELECTRICAL PANEL
EX.	EXISTING
EXIST.	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIR HOSE CABINET
FRG	FIRE RATED GLASS
G.B.	GYPSUM BOARD
HD	HAND DRYER
H.M.	HOLLOW METAL
LAT	LAY-IN ACOUSTIC TILE
MIR	MIRROR
N.I.C.	NOT IN CONTRACT
PT	PORCELAIN TILE
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SB	SMARTBOARD
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TENDER NUMBER: PUR19-24-ITT

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

MILLWORK DETAILS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
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TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

DATE DEC. 2018

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DWG. NO. A6.1

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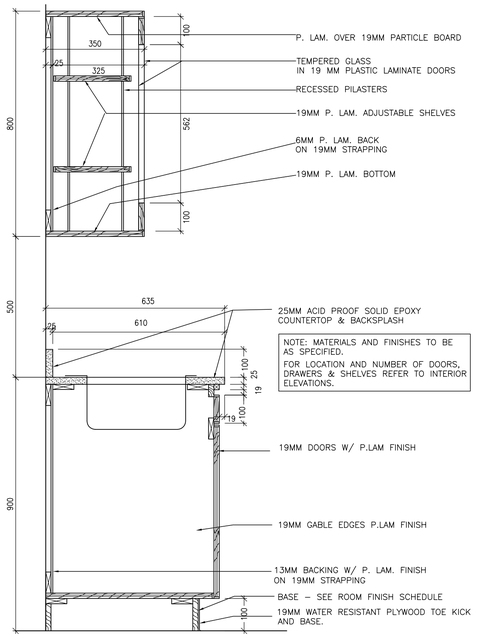
FILE:1928 (ARCHITD)
PLOTTED: Tue, 19 Feb, 2019



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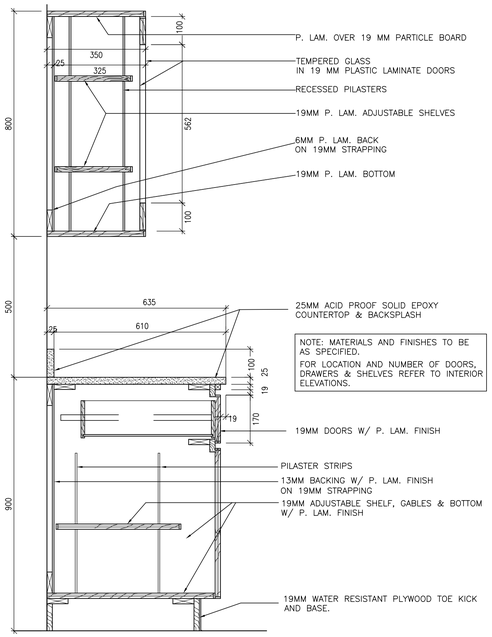

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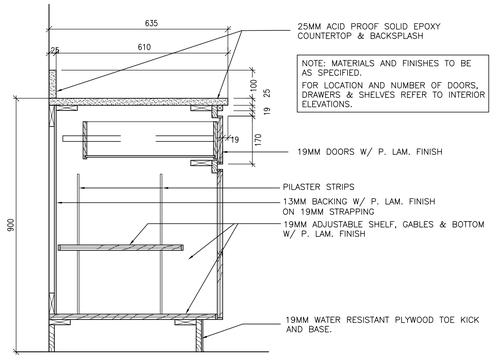

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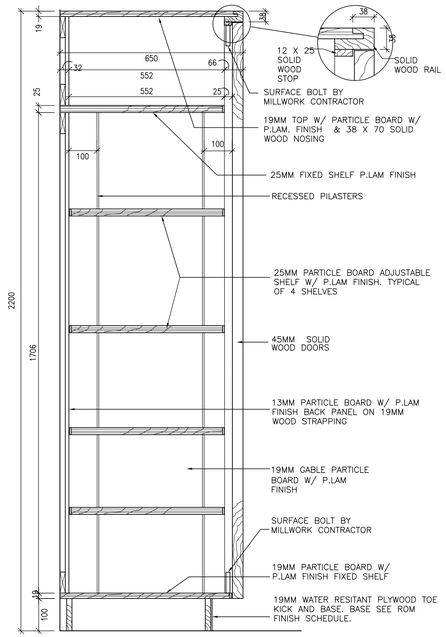
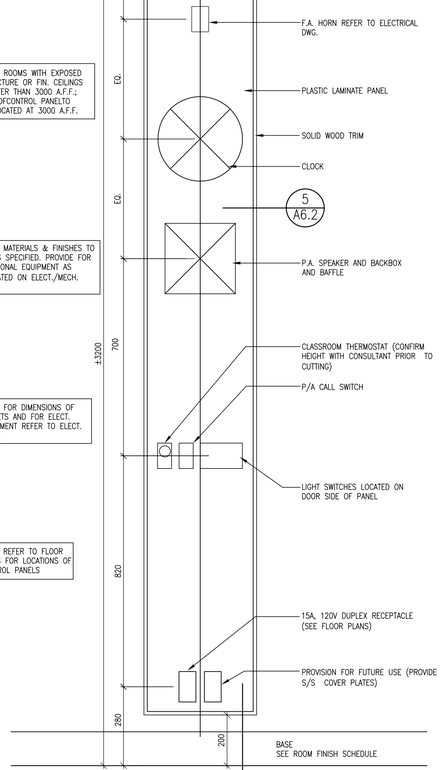
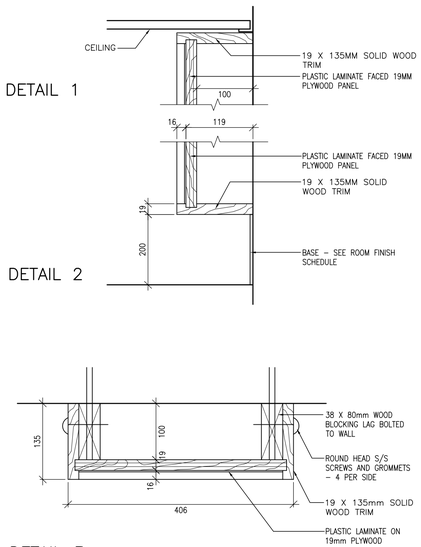
SCALE 1:10



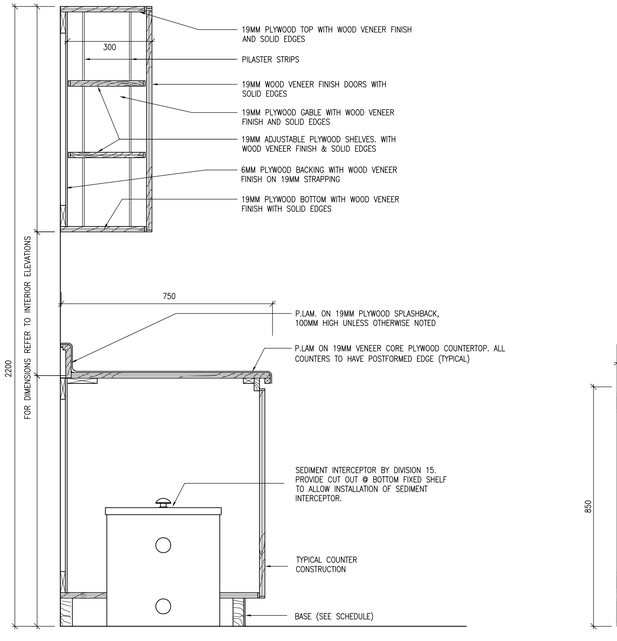
3 A6.2 MILLWORK DETAIL
SCALE 1:10



4 A6.2 MILLWORK DETAIL – CONTROL PANEL
SCALE 1:10

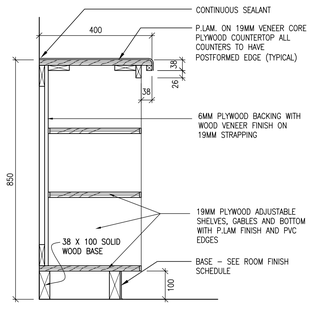


5 A6.2 MILLWORK DETAIL – CONTROL PANEL
SCALE 1:5



6 A6.2 MILLWORK DETAIL
SCALE 1:5

NOTE:
ALL SCIENCE ROOM MILLWORK TO BE PLASTIC LAMINATE FINISHED EXCEPT COUNTERTOPS WHICH SHALL BE EPOXY FINISHED



7 A6.2 SHELVING UNIT
SCALE 1:10

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
BN	BULLNOSE BLOCK
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FRG	FIRE RATED GLASS
G.B.	GYPSUM BOARD
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H.M.	HOLLOW METAL
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SB	SMARTBOARD
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WB	WHITEBOARD
WD	WOOD

TENDER NUMBER: PUR19-24-ITT

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

MILLWORK DETAILS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE 4695

TRUE NORTH N | DWG. NORTH N

JOB NO. 1920

SCALE AS NOTED

DATE DEC. 2018

PRINTED February 19, 2019

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DRAWN BY:MB
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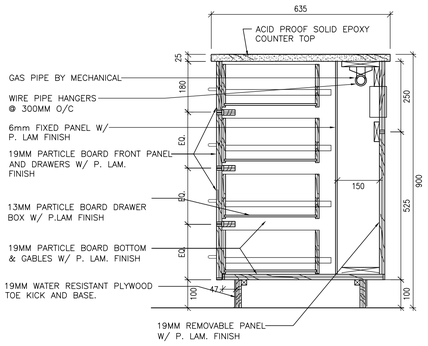
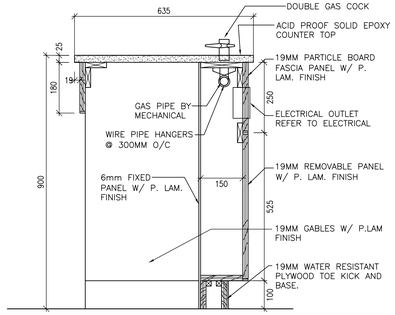
PLOTTED: Mon, 18 Feb, 2019

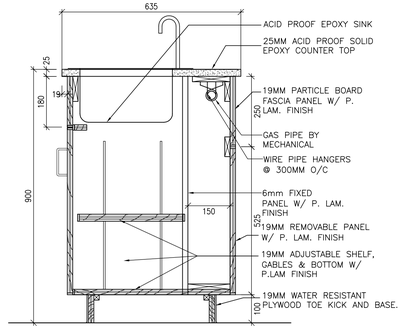


1 A6.1 MILLWORK DETAIL
SCALE 1:10

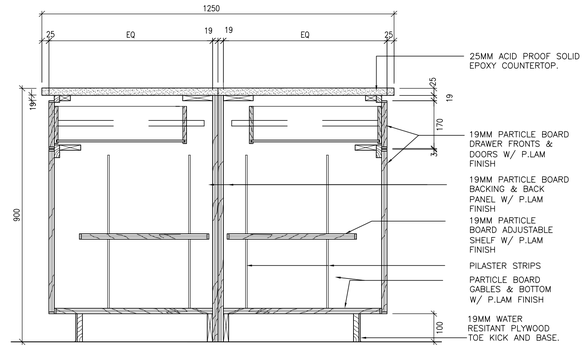


NOTE:
MATERIALS AND FINISHES TO BE AS SPECIFIED.
FOR LOCATION AND NUMBER OF DOORS, DRAWERS AND SHELVES REFER TO INTERIOR ELEVATIONS.

2 A6.3 MILLWORK DETAIL
SCALE 1:10

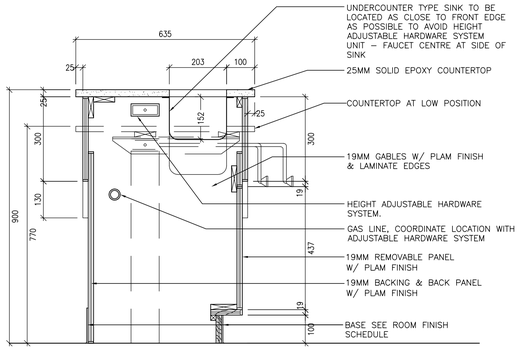


3 A6.3 MILLWORK DETAIL
SCALE 1:10



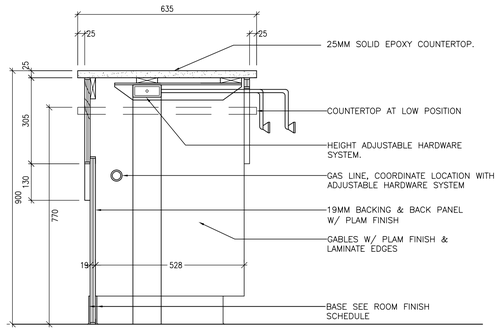
NOTES:
MATERIALS AND FINISHES TO BE AS SPECIFIED.
FOR LOCATION AND NUMBER OF DOORS, DRAWERS & SHELVES REFER TO MILLWORK ELEVATIONS.

4 A6.3 MILLWORK DETAIL
SCALE 1:10



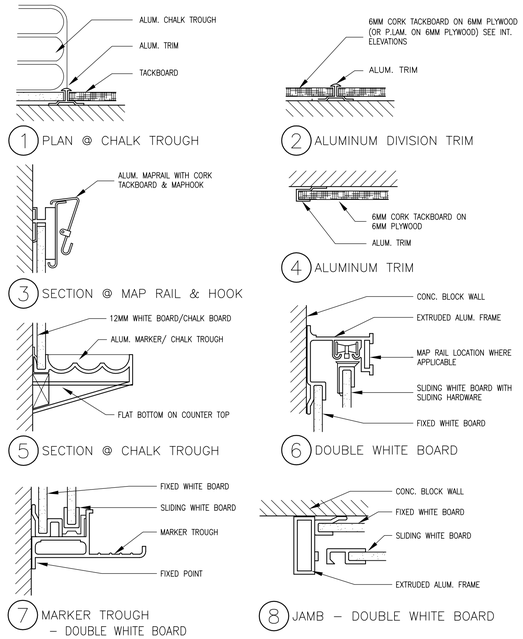
NOTES:
MATERIALS AND FINISHES TO BE AS SPECIFIED.
FOR LOCATION AND NUMBER OF DOORS, DRAWERS & SHELVES REFER TO MILLWORK ELEVATIONS.

5 A6.3 DETAIL ELEVATION OF STUDENT WORK ISLAND W/ ADJUSTABLE BARRIER FREE STATION
1:10



NOTES:
MATERIALS AND FINISHES TO BE AS SPECIFIED.
FOR LOCATION AND NUMBER OF DOORS, DRAWERS & SHELVES REFER TO MILLWORK ELEVATIONS.

6 A6.3 DETAIL ELEVATION OF STUDENT WORK ISLAND W/ ADJUSTABLE BARRIER FREE STATION
1:10



7 A6.7 WHITEBOARD/TACKBOARD DETAILS
SCALE 1:5

ABBREVIATIONS LEGEND:

BF	BARRIER FREE
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CPT	CARPET TILE
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING: MILLWORK DETAILS

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT F. FERKUL
LICENCE
4695

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE: AS NOTED

DATE: DEC. 2018

PRINTED: February 19, 2019

DWG. NO. A6.3

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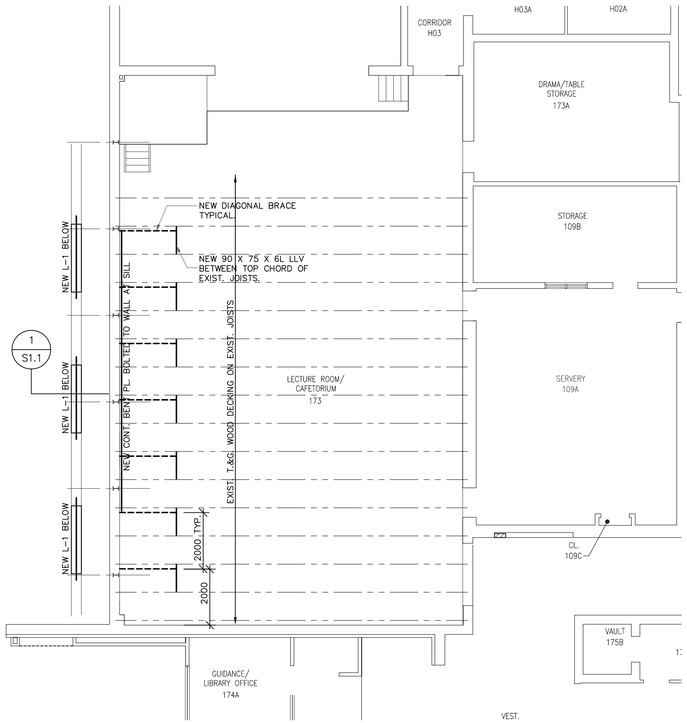
EMAIL: mdarch@mdarch.ca

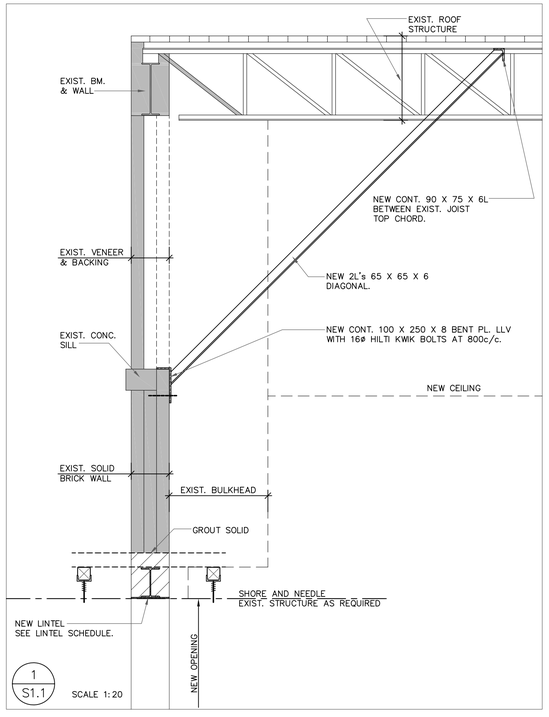
DRAWN BY: MD
PLOTTED: 14/02/19
PLOTTED: Tue, 19 Feb, 2019

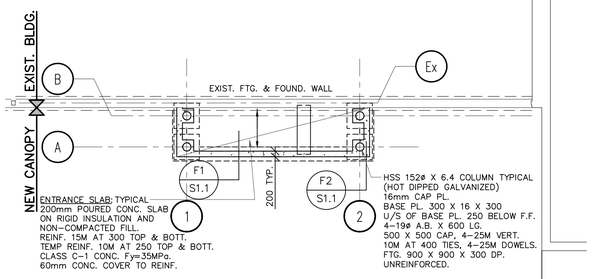


PART ROOF FRAMING PLAN – CAFETORIUM 173

SCALE 1:100

1. ALL STRUCTURE IS EXISTING UNLESS NOTED OTHERWISE ON PLAN. EXISTING FRAMING IS BASED ON EXISTING DRAWINGS FROM 1950.
2. DESIGN SNOW LOAD AS PER OBC 2012 IS 2.08kPa X Is (1.15).
3. UNLESS NOTED OTHERWISE PROVIDE 75 X 75 X 6 ANGLE REINFORCING AROUND ALL OPENINGS IN ROOF DECK.
4. SEE ALSO TYPICAL DETAILS AND GENERAL NOTES ON THESE DRAWINGS.
5. PROVIDE 170 X 12 X 150 BEARING PLATES EACH END OF ALL STEEL BEAMS/LINTELS. ALL BEARING PLATES SHALL BE WITH 2–19ø WELDED ANCHORS X 250 LG. WELD BEAM TO BEARING PLATES TYPICAL.

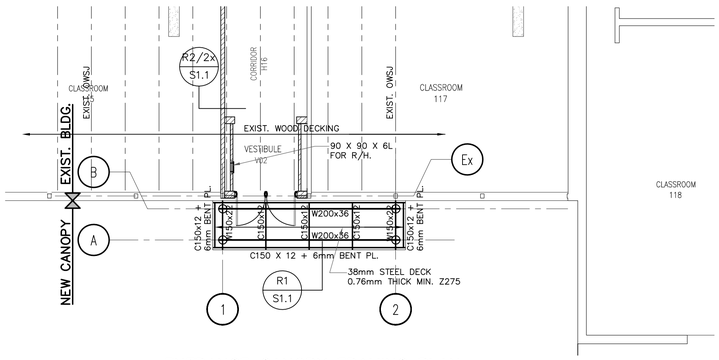




FOUNDATION PLAN

SCALE 1:100

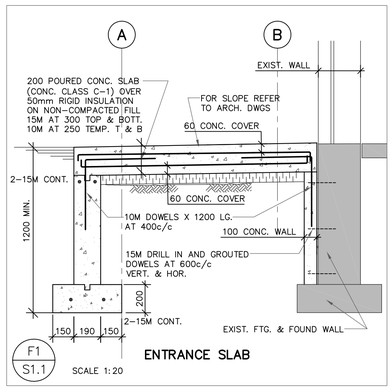
1. TOP OF ENTRANCE SLAB TO MATCH EXISTING. SEE ARCHITECTURAL DRAWINGS FOR SLOPES.
2. ALL NEW FOOTINGS SHALL BE PLACED ON UNDISTURBED NATIVE SOIL CAPABLE OF SUPPORTING PRESSURE OF 200kPa ULS (150kPa SLS).
3. ALL NEW FOOTINGS SHALL BE PLACED MINIMUM 1200mm BELOW FINISHED GRADE. FOOTINGS ADJACENT TO EXISTING SHALL MATCH EXISTING ELEVATION.
4. SEE ALSO TYPICAL DETAILS AND GENERAL NOTES ON THESE DRAWINGS.
5. ALL FOOTINGS SHALL BE FORMED. FOOTINGS POURED INTO NEAT EXCAVATION ARE NOT ACCEPTABLE.



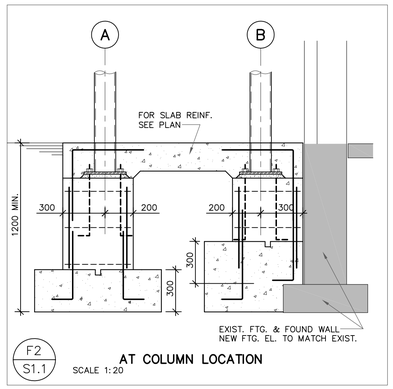
ENTRANCE CANOPY FRAMING PLAN

SCALE 1:100

1. DESIGN SNOW/RAIN LOAD AS PER OBC 2012 IS 2.08kPa X Is (1.15).
2. FACTORED DESIGN NET UPLIFT FOR STEEL DECK IS 1.9kPa, FOR PURLINS IS 1.772kPa.
3. PROVIDE MOMENT CONNECTION BETWEEN COLUMNS AND BEAMS IN BOTH DIRECTIONS Mf=30kNm.
4. SEE ALSO TYPICAL DETAILS AND GENERAL NOTES ON THESE DRAWINGS.



ENTRANCE SLAB



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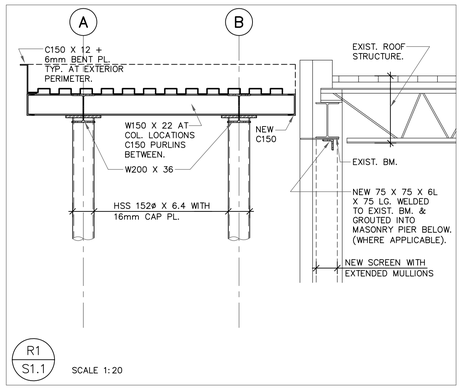
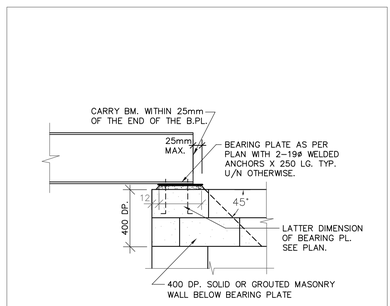
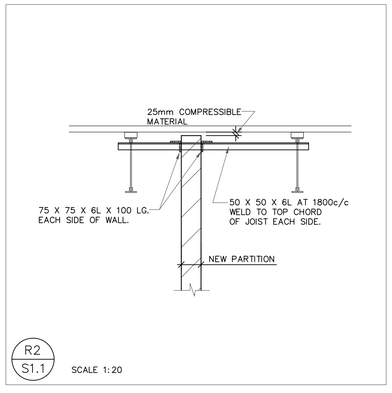


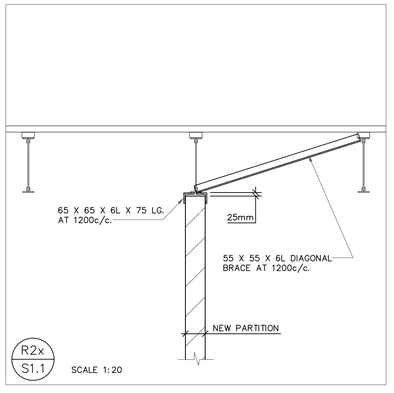
LINTEL SCHEDULE			
MARK	MATERIAL	TYPE	REMARKS
L–1	W200 X 27 + 270 X 8 PL. BOTT.		PROVIDE TYP. B.PL. E.E.

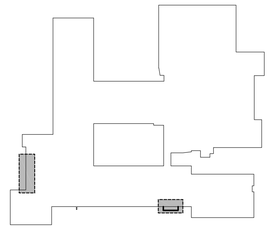
– CARRY L's 150mm INTO WALL EACH END.



TYPICAL BEAM BEARING







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DATE	REVISIONS
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS PHASE 2

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

FRAMING PLANS, SECTIONS & DETAILS

LICENSED PROFESSIONAL ENGINEER Feb.19,2019 A.M. RAVENS PROVINCE OF ONTARIO 1903

TRUE NORTH | DWG. NORTH

JOB NO. 1920

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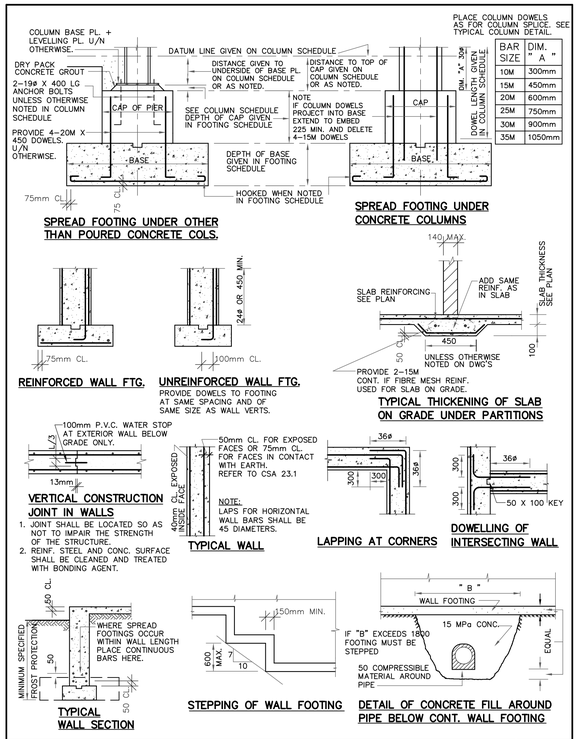


SPREAD FOOTING UNDER OTHER THAN POURED CONCRETE COLS.

SPREAD FOOTING UNDER CONCRETE COLUMNS

REINFORCED WALL FTG.

UNREINFORCED WALL FTG.
PROVIDE DOWELS TO FOOTING AT SAME SPACING AND OF SAME SIZE AS WALL VERTS.

TYPICAL THICKENING OF SLAB ON GRADE UNDER PARTITIONS

VERTICAL CONSTRUCTION JOINT IN WALLS
1. JOINT SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE.
2. REINF. STEEL AND CONC. SURFACE SHALL BE CLEANED AND TREATED WITH BONDING AGENT.

TYPICAL WALL

LAPPING AT CORNERS

DOWELLING OF INTERSECTING WALL

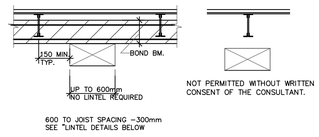
TYPICAL WALL SECTION

STEPPING OF WALL FOOTING

DETAIL OF CONCRETE FILL AROUND PIPE BELOW CONT. WALL FOOTING

FOUNDATION & WALL DETAILS | 2M

LINTELS FOR DUCT OPENINGS THRU WALLS SUPPORTING O.W.S.J.



NOT PERMITTED WITHOUT WRITTEN CONSENT OF THE CONSULTANT.

- PROVIDE MINIMUM 400mm SOLID MASONRY BETWEEN MECHANICAL OPENINGS. TYPICAL.
- UNLESS NOTED OTHERWISE, FOR OPENINGS IN EXTERIOR WALLS PROVIDE LINTEL AS NOTED ABOVE FOR BACK UP WALL + STEEL ANGLE FOR VENEER. PROVIDE 90 X 90 X 8L FOR SPAN UP TO 1200mm OR 150 X 90 X 8L LLV FOR SPAN UP TO 2000mm.

LINTELS FOR DUCT OPENINGS

CLEAR SPAN	140mm WALL		190mm WALL		240mm WALL		290mm WALL	
	TYPE	MATERIAL	TYPE	MATERIAL	TYPE	MATERIAL	TYPE	MATERIAL
UP TO 1200mm	⊥L	2L'S 90 X 65 X 8 LLV.	⊥L	2L'S 90 X 90 X 8	⊥L	2L'S 100 X 100 X 8	⊥L L	3L'S 90 X 90 X 8
1200mm TO 2000mm	⊥L	2L'S 90 X 65 X 8 LLV.	⊥L	2L'S 150 X 90 X 8 LLV	⊥L	2L'S 150 X 100 X 8	⊥L L	3L'S 150 X 90 X 8 LLV

NOTES FOR STEEL LINTELS

1. DOUBLE ANGLES SHALL BE PLACED BACK TO BACK AND BOLTED TOGETHER WITH BOLTS AT 600o/c OR EQUIVALENT STITCHWELD TOP AND BOTTOM 16ø MIN.
2. MINIMUM BEARING OF LINTELS SHALL BE 150mm SEE PLAN ABOVE
3. FOR LINTELS IN NON-LOAD BEARING 140 WALLS OVER 2000mm, PROVIDE W200 X 27 BEAM.
4. PROVIDE SINGLE 90 X 90 X 8L FOR OPENINGS IN 90mm BLOCK ENCLOSURES FOR SPAN UP TO 1200mm. FOR LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

TYPICAL DETAILS FOR LINTELS

CHECK ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

DO NOT EXCEED THE DESIGN LIVE LOADS SHOWN DURING CONSTRUCTION.

THIS STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH O.B.C. 2012.

THE GENERAL CONTRACTOR SHALL EXAMINE EXISTING SITE CONDITIONS AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT BEFORE STARTING ANY WORK.

FOUNDATION NOTES:

FOOTING EXCAVATIONS SHALL BE INSPECTED BY A SOILS ENGINEER BEFORE CONCRETE IS PLACED.

FOOTINGS EXPOSED TO FREEZING SHALL BE PLACED AT LEAST 1200mm BELOW FINISHED GRADE.

PROTECT FOOTINGS EXPOSED TO FROST ACTION DURING CONSTRUCTION BY 1200mm OF SOIL OR ITS EQUIVALENT.

THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS, EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. MAXIMUM STEP 600mm.

WHERE A FOUNDATION WALL RETAINS SOIL ON EACH FACE BACKFILL ON BOTH SIDES SIMULTANEOUSLY.

PROVIDE FOOTINGS FOR PARTITIONS THICKER THAN 150mm.

STRUCTURAL STEEL NOTES:

CENTRE BEARING PLATES UNDER BEAMS OR AS NOTED. BEARING PLATE DIMENSION GIVEN LAST INDICATES SIDE PARALLEL TO BEAM WEB.

STRUCTURAL STEEL SHALL BE GRADE G40.21M 350W, HOLLOW STRUCTURAL SECTIONS SHALL BE G40.21M 350W CLASS C.

CONCRETE NOTES:

UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS, THE ULTIMATE 28 DAY STRENGTH OF CONCRETE SHALL BE 25MPa. REINFORCING STEEL SHALL BE DEFORMED BARS OF 400MPa YIELD STRENGTH.

GENERAL NOTES

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET — NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
TYPICAL DETAILS & GENERAL NOTES

LICENSED PROFESSIONAL ENGINEER
Feb.16,2019
A.M. RAVENS
PROVINCE OF ONTARIO
1903

TRUE NORTH	DWG. NORTH

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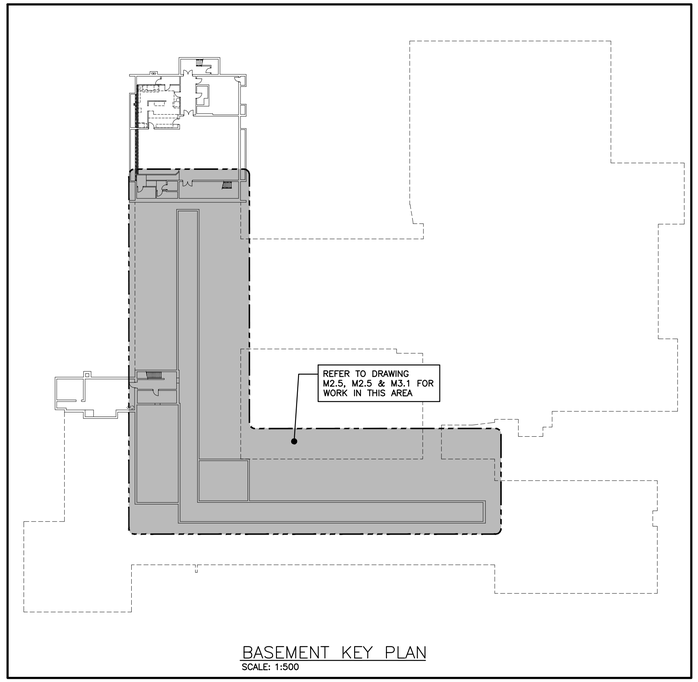
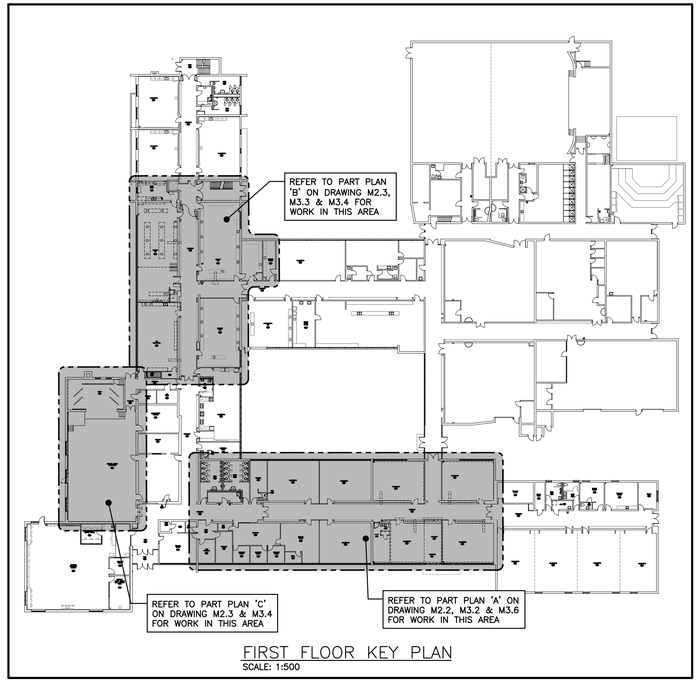
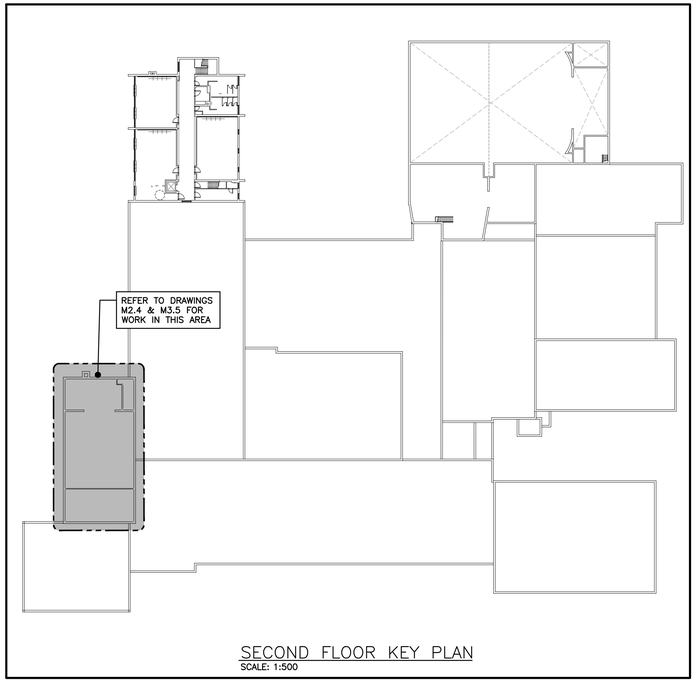


BASEMENT KEY PLAN
SCALE: 1:500



FIRST FLOOR KEY PLAN
SCALE: 1:500

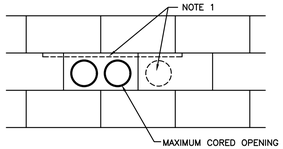


SECOND FLOOR KEY PLAN
SCALE: 1:500

FAN SCHEDULE

Item	Type	Service	Exhaust Air Data: Capacity cfm	Size hp	SP in. wc	Voltage	Manufacturer	Model	Remarks
EF-106	ROOFTOP UPBLAST EXHAUST	PREP ROOM 105B	300	1/4	0.375	120/1/60	PENN BARRY	FX08B	C/W 24" HIGH ROOF CURB & BACKDRAFT DAMPER. DVR BY BAS CONTRACTOR
EF-107	ROOFTOP UPBLAST EXHAUST	FUMEHOOD EXHAUST FAN	1150	1/4	0.75	120/1/60	PENN BARRY	FX13BH	CONNECT TO FUMEHOOD. C/W 24" HIGH ROOF CURB, HERESITE COATING.
EF-108	ROOFTOP CENTRIFUGAL EXHAUST	ACID STORAGE CABINET	100	1/4	0.75	120/1/60	PLASTEC	P20-4	C/W UPBLAST DISCHARGE, VIBRATION ISOLATION, DRAIN, BLACK CARBON FIBER IMPREGNATED POLYPROPYLENE HOUSING ASSEMBLY (SUITABLE FOR EXPLOSION-PROOF), MB15 METAL SUPPORT STAND, ROOF UNIT KIT AND WEATHER HOOD ENCLOSED PEDESTAL (MODEL WH3). DVR BY BAS CONTRACTOR.
EF-109	ROOFTOP UPBLAST EXHAUST	SCIENCE LAB 105	800	1/4	0.375	120/1/60	PENN BARRY	FX12BH	C/W 24" HIGH ROOF CURB & BACKDRAFT DAMPER. DVR BY BAS CONTRACTOR
EF-110	CEILING MOUNTED EXHAUST	LOCAL EXHAUST	100	Fhp	0.125	120/1/60	PENN BARRY	Z5H	C/W VIBRATION ISOLATION HANGERS. FOR NUMBER & LOCATION OF FANS REFER TO PLAN
EF-A	ROOFTOP EXHAUST	EXISTING CLASSROOM	1200	Fhp	0.375	120/1/60	–	–	REFURBISH AND REBALANCE EXISTING EXHAUST FAN AS SPECIFIED

** PRIOR TO DEMOLITION OF EQUIPMENT, TAB CONTRACTOR TO PROVIDE EXISTING BALANCING FOR ROOFTOP FANS

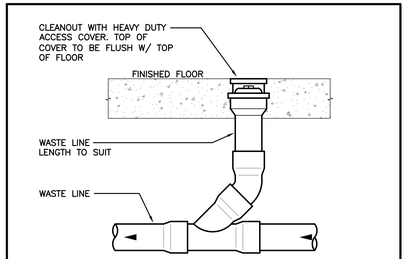


NOTES:

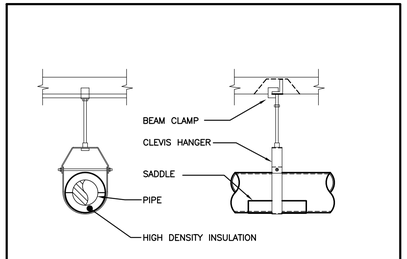
1. WHERE PENETRATIONS EXTEND BEYOND ONE (1) BLOCK OR WHERE THREE (3) OR MORE PENETRATIONS ARE INSTALLED WITHIN 800mm, PROVIDE LINTEL AS PER STRUCTURAL DRAWINGS

2. IN FIRE RATED WALLS (INCLUDING NON-RATED FIRE SEPARATIONS) AND PARTITIONS PROVIDE PIPE SLEEVES FOR ALL PIPING AS SPECIFIED

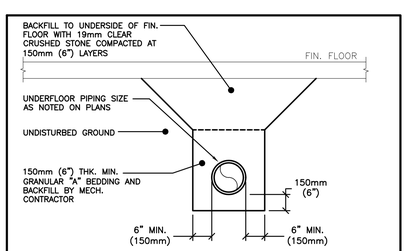
PIPE PENETRATION THROUGH BLOCK WALL (NON RATED BLOCK WALL)



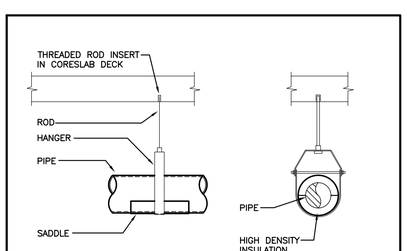
CLEANOUT



PIPE HANGER



PIPE BEDDING



PIPE HANGER (CORESLAB)

PLUMBING FIXTURE CONNECTIONS

Item	Type	Gas (mm)	Sanitary (mm)	Vent (mm)	CW (mm)	HW/TW (mm)
S-1	SINGLE COMPARTMENT STAINLESS STEEL ART SINK & INTERCEPTOR	N/A	40	32	15	15
S-2	SINGLE COMPARTMENT SCIENCE SINK (STUDENT)	N/A	40	32	15	N/A
S-3	BARRIER-FREE SINGLE COMPARTMENT SCIENCE SINK (STUDENT)	N/A	40	32	15	N/A
S-4	SINGLE COMPARTMENT SCIENCE SINK (TEACHER)	N/A	40	32	15	15
S-5	SINGLE COMPARTMENT SCIENCE SINK C/W DRAINBOARD	N/A	40	32	15	15
FD-1	GENERAL DUTY FLOOR DRAIN	N/A	SEE PLAN	40	N/A	N/A
HD-1	GENERAL DUTY HUB DRAIN	N/A	SEE PLAN	40	N/A	N/A
EW-1	BARRIER-FREE SCIENCE ROOM EMERGENCY EYEWASH STATION	N/A	32	32	15	15
ES-1	EMERGENCY DRENCH SHOWER/EYE WASH COMBINATION UNIT	N/A	32	32	25	25
G-1	GAS COCK	15	N/A	N/A	N/A	N/A

MINIMUM UNDERGROUND SANITARY LINE SIZE SHALL BE 50ø (2"ø)

GENERAL NOTES

A. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.

B. CONTRACTOR TO INCLUDE COST FOR CONSULTANT TO COMPLETE ELECTRONIC CAD AS-BUILT DWGS (ALL PAGES). REFER TO SPEC SECTION 15010/20 02 51 – RECORD DWGS.

C. ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATION.

D. SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14'-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.

E. WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.

F. CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.

G. UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
- POTABLE WATER TEST (SEE SPEC 15142/22 11 16 PART 3)
- BACKFLOW TEST CERTIFICATE(S) FOR ALL TESTABLE DEVICES
- COPY OF MANDATORY TSSA/CSA-B149 GAS PRESSURE TEST TAG
- NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE
- NFPA-14 STANDPIPE CONTRACTOR'S MATERIAL & TEST CERTIFICATE
- FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER
- MECHANICAL SEISMIC RESTRAINT ENGINEER'S INSPECTION/CONFORMANCE LETTER
- TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT REFRIGERATION SYSTEMS (EXCEEDING 3 OR 5 TONS)

ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

MECHANICAL LEGEND

Item	Description	Item	Description
	CUT EXISTING & CONNECT NEW PIPING		GATE VALVE
	FLOW DIRECTION		SOLENOID VALVE
	DOMESTIC COLD WATER PIPING		RISER VALVE
	DOMESTIC HOT WATER PIPING	BV	BALANCING VALVE
	DOMESTIC HOT WATER RECIRC. PIPING	TCV	TEMPERATURE CONTROL VALVE
	DOMESTIC TEMPERED WATER PIPING	FHC	FIRE HOSE CABINET
– –EX–SAN–	EXISTING SANITARY PIPING ABOVE FLOOR	FE	WALL MOUNTED FIRE EXTINGUISHER
– –EX–SAN–	EXISTING SANITARY PIPING BELOW FLOOR	FB	FIRE BLANKET IN CABINET MOUNTED ON WALL
– –SAN– –	SANITARY PIPING ABOVE FLOOR	CO	FLOOR CLEANOUT
– –SAN– –	SANITARY PIPING BELOW FLOOR	CO	LINE CLEANOUT
– –AW– –	ACID WASTE		THERMOSTAT (WITH OR WITHOUT GUARD)
– – AV – –	ACID VENT PIPING		SUPPLY AIR DUCT
–EX–ST–	EXISTING STORM PIPING ABOVE FLOOR		RETURN/EXHAUST AIR DUCT
–EX–ST–	EXISTING STORM PIPING BELOW FLOOR		ACOUSTIC DUCT LINING
–ST–	STORM PIPING ABOVE FLOOR	BD	BALANCING DAMPER
–ST–	STORM PIPING BELOW FLOOR	M	MOTORIZED DAMPER (OPPOSED BLADE)
	STANDPIPE PIPING	FD	FIRE DAMPER
–HWS–	HEATING WATER SUPPLY PIPING	FF	FIRE FLAP
– –HWR– –	HEATING WATER RETURN PIPING	BDD	BACKDRAFT DAMPER
	NATURAL GAS PIPING		FLEXIBLE ROUND DUCT
FD	FLOOR DRAIN		RIGID ROUND DUCT
P	TRAP PRIMER	AL	ALUMINUM DUCT
	TEE CONNECTION	SS	STAINLESS STEEL DUCT
C	PIPE DOWN	Type / Size / Cap.	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
	PIPE UP	Type / Size 1 / Size 2 / Capacity	HYDRONIC HEATING SIZE, TYPE & CAPACITY
	CHECK VALVE		
	REDUCED PRESSURE BACKFLOW PREVENTOR	AD	ACCESS DOOR
	DRAIN (SCHEMATICS)	EXP	EXPANSION COMPENSATOR/JOINT
	SCREWED OR WELDED PIPE CAP	RIC	RETURN IN CABINET
	PLUG VALVE	AFF	ABOVE FINISHED FLOOR
	BALL VALVE	AFR	ABOVE FINISHED ROOF
	BUTTERFLY VALVE	EX	EXISTING DUCT (SIZE AS INDICATED)

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
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DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

LEGEND, SCHEDULES AND KEY PLAN

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
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PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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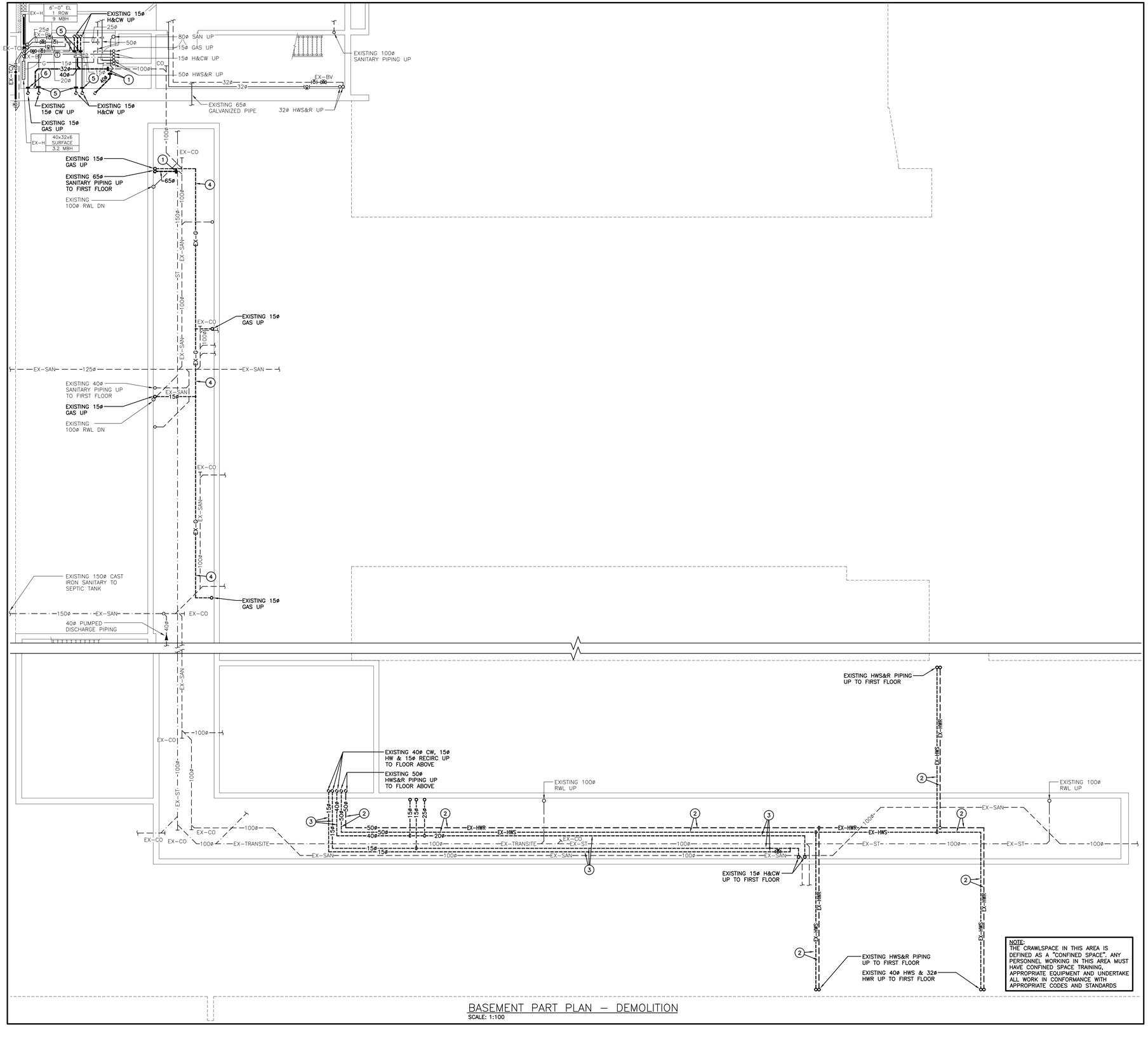

BASEMENT PART PLAN – DEMOLITION

SCALE: 1:100

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

1. EXISTING SANITARY TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
2. EXISTING HWS/R PIPING TO BE REMOVED COMPLETE.
3. EXISTING DOMESTIC H/CW AND RECIRC. PIPING TO BE REMOVED COMPLETE.
4. EXISTING GAS PIPING TO BE REMOVED COMPLETE.
5. EXISTING DOMESTIC H/CW PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
6. EXISTING GAS PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL CRAWL SPACE DEMOLITION PLAN

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
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PROVINCE OF ONTARIO

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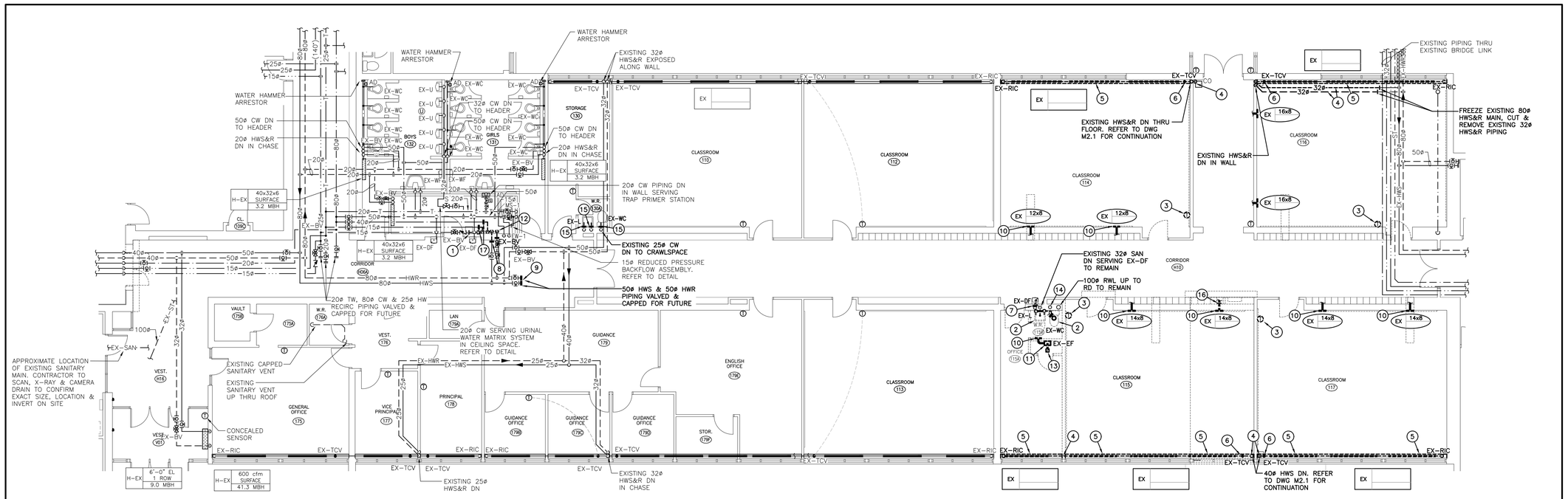

PART PLAN 'A' – DEMOLITION
SCALE: 1:100

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

1. EXISTING HW/CW/RECIRC. PIPING TO BE CUT AND REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.
2. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. REMOVE DOMESTIC WATER PIPING COMPLETE. CUT & CAP SANITARY PIPING IN WALL/FLOOR AND REMOVE BEYOND COMPLETE.
3. EXISTING PNEUMATIC THERMOSTAT TO BE REMOVED COMPLETE AND TURNED OVER TO OWNER. REPLACE WITH NEW DDC THERMOSTAT/SENSOR AND CONNECT TO NEW CONTROL VALVE(S). EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. EXISTING CONCEALED PNEUMATIC TUBING TO BE ABANDONED IN PLACE. PROVIDE S.S. COVER OVER EXISTING OPENING.
4. EXISTING HWS/R PIPING TO BE REMOVED COMPLETE.
5. EXISTING RADIATION, CABINET AND ALL ASSOCIATED PIPING & VALVES TO BE REMOVED COMPLETE.
6. EXISTING PNEUMATIC TCV & VALVE IN RADIATION CABINET TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. EXISTING CONCEALED PNEUMATIC TUBING TO BE ABANDONED IN PLACE. PROVIDE S.S. COVER OVER EXISTING OPENING.
7. EXISTING DRINKING FOUNTAIN CW PIPING TO BE CAPPED IN WALL AND REMOVE BEYOND COMPLETE. PREPARE DRINKING FOUNTAIN FOR NEW CONNECTION.
8. EXISTING HWS/R PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
9. EXISTING CAPPED CONNECTION TO BE REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.
10. EXISTING GRILLE TO BE REMOVED COMPLETE.
11. EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK TO BE REMOVED COMPLETE.
12. EXISTING 50ø HWS&R PIPING DN TO CRAWL SPACE TO BE REMOVED COMPLETE.
13. EXISTING 150x150 EA DUCT UP THRU ROOF TO BE REMOVED COMPLETE.
14. MODIFY EXISTING PLUMBING VENT PIPING TO SUIT NEW CEILING HEIGHT.
15. EXISTING DOMESTIC H/CW PIPING TO BE CUT & CAPPED IN WALL AND REMOVED BEYOND COMPLETE.
16. EXISTING DUCTWORK TO BE CUT AND REMOVED COMPLETE. PREPARE DUCTWORK FOR NEW CONNECTION.
17. EXISTING DOMESTIC H/CW PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE. REMOVE PIPING DN THRU TO CRAWL SPACE.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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Project Number: 18296

DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL
RENOVATIONS 2019
44 ELM STREET NORWOOD,ONTARIO
KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
PARTIAL FIRST FLOOR DEMOLITION PLANS

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
M.B. WHITE
1001490
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH
JOB NO. 1920
SCALE AS NOTED
DATE FEB. 2019
PRINTED FEBRUARY 15, 2019
DWG. NO. M2.2

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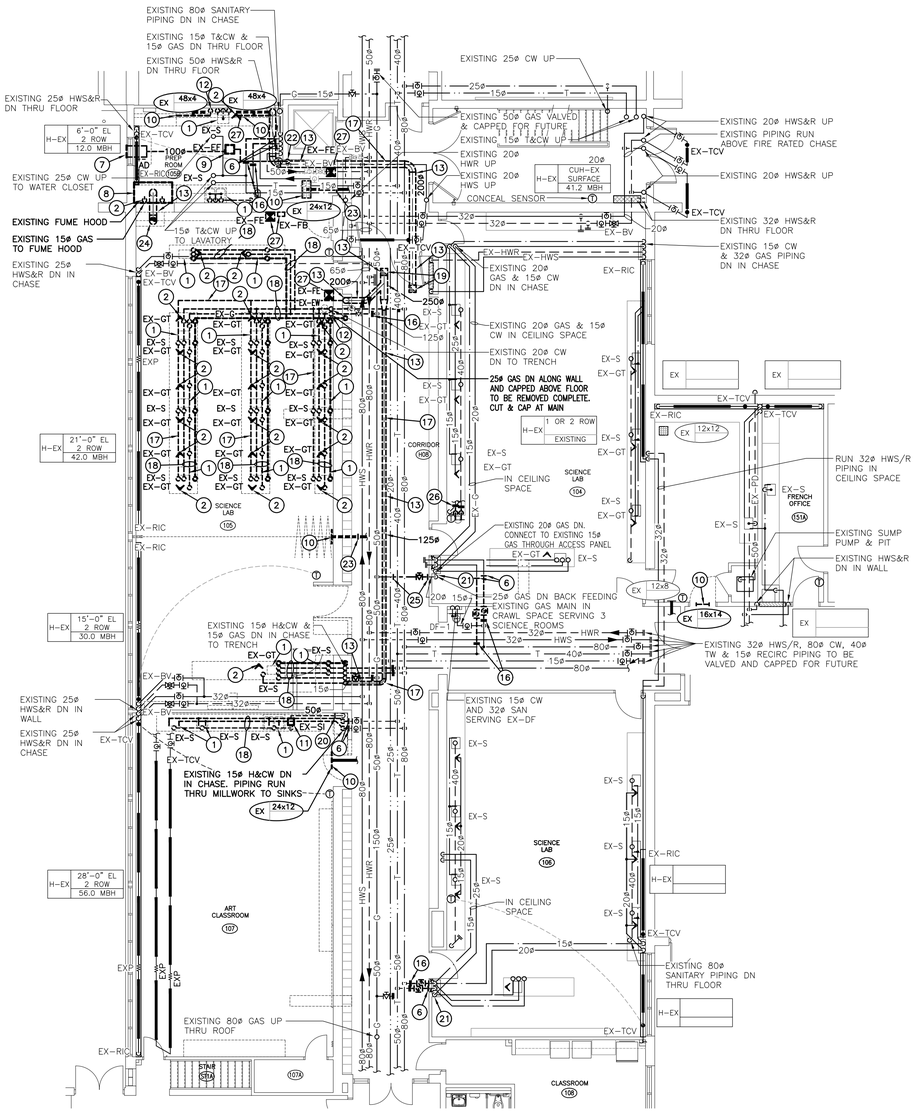
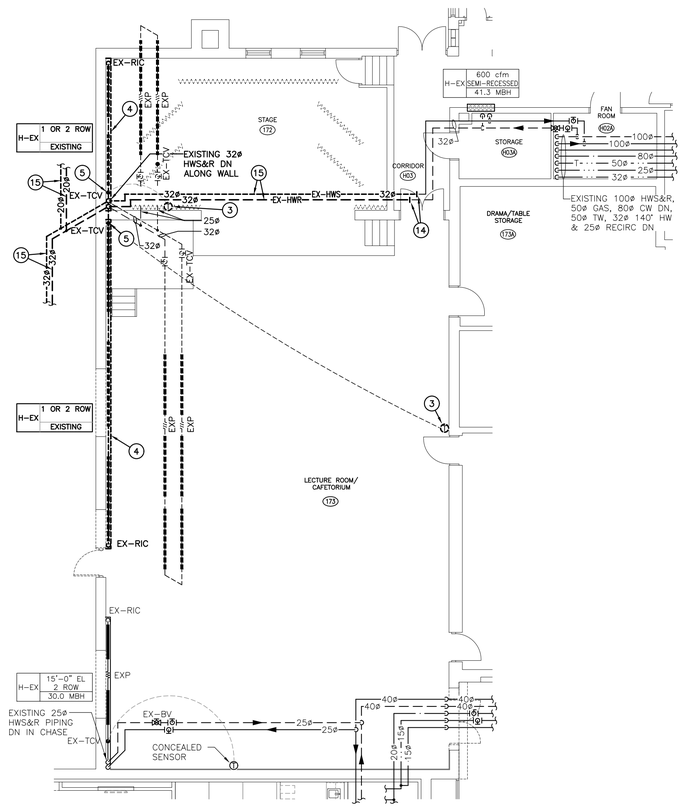


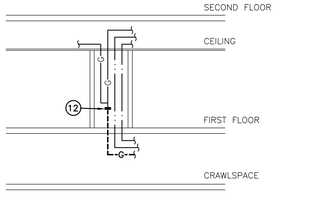
PART PLAN 'B' – DEMOLITION

SCALE: 1:100



PART PLAN 'C' – DEMOLITION

SCALE: 1:100



SCIENCE LAB GAS PIPING – DEMO

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
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- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

1. EXISTING SINK AND ALL ASSOCIATED DRAINAGE AND PIPING TO BE REMOVED COMPLETE.
2. EXISTING GAS TURRET AND ALL ASSOCIATED PIPING TO BE REMOVED COMPLETE.
3. EXISTING PNEUMATIC THERMOSTAT TO BE REMOVED COMPLETE AND TURNED OVER TO OWNER. REPLACE WITH NEW DDC THERMOSTAT/SENSOR AND CONNECT TO NEW CONTROL VALVE(S). EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. EXISTING CONCEALED PNEUMATIC TUBING TO BE ABANDONED IN PLACE. PROVIDE S.S. COVER OVER EXISTING OPENING.
4. EXISTING RADIATION, CABINET AND ALL ASSOCIATED PIPING & VALVES TO BE REMOVED COMPLETE.
5. EXISTING PNEUMATIC TCV & VALVE IN RADIATION CABINET TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. EXISTING CONCEALED PNEUMATIC TUBING TO BE ABANDONED IN PLACE. PROVIDE S.S. COVER OVER EXISTING OPENING.
6. EXISTING DOMESTIC H/CW PIPING TO BE CUT AND REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.
7. EXISTING VENT TO BE REMOVED COMPLETE.
8. EXISTING FUME HOOD AND ALL ASSOCIATED CONTROLS, PIPING AND DUCTWORK TO BE REMOVED COMPLETE.
9. EXISTING EXHAUST FAN AND ALL ASSOCIATED CONTROLS AND DUCTWORK TO BE REMOVED COMPLETE.
10. EXISTING GRILLE TO BE REMOVED COMPLETE.
11. EXISTING SOLIDS INTERCEPTOR TO BE REMOVED COMPLETE.
12. EXISTING GAS LINE DN TO CRAWL SPACE TO BE REMOVED COMPLETE.
13. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
14. EXISTING HWS/R PIPING TO BE CUT AND REMOVED COMPLETE. PREPARE PIPING FOR NEW CONNECTION.
15. EXISTING HWS/R PIPING TO BE REMOVED COMPLETE.
16. EXISTING DOMESTIC H&CW PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
17. EXISTING SCIENCE EXHAUST DUCTWORK TO BE REMOVED COMPLETE.
18. EXISTING DRAINAGE AND PIPING TO BE REMOVED COMPLETE.
19. 250x250 EA DUCT UP THRU ROOF TO BE REMOVED COMPLETE.
20. EXISTING SANITARY PIPING TO BE CUT AND REMOVED BEYOND COMPLETE. PREPARE PIPING FOR NEW CONNECTION.
21. 20ø GAS DN. CONNECTED TO EXISTING 15ø GAS THROUGH ACCESS PANEL. CUT & CAP GAS LINE DN THRU TO CRAWL SPACE AND REMOVED COMPLETE. REFER TO DETAIL.
22. 80ø GALVANIZED PIPING DN TO FLAMMABLE STORAGE CABINET TO BE REMOVED COMPLETE.
23. EXISTING DUCT TO BE CUT AND REMOVED COMPLETE. PREPARE DUCT FOR NEW CONNECTION.
24. EXISTING 250ø VENT UP THROUGH ROOF TO BE REMOVED COMPLETE.
25. EXISTING GAS PIPING TO BE CUT AND REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.
26. EXISTING DOMESTIC H&CW PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE. CONTRACTOR TO VERIFY ON SITE EXACT LOCATION OF PIPING.
27. EXISTING FIRE EXTINGUISHER/FIRE BLANKET TO BE REMOVED COMPLETE.
28. EXISTING SCIENCE EXHAUST DUCT IN MILLWORK TO BE REMOVED BEYOND COMPLETE.

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Project Number: 18296

DATE	REVISIONS
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL FIRST FLOOR DEMOLITION PLANS

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
M.B. WHITE
100149074
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE AS NOTED

DATE FEB. 2019

PRINTED FEBRUARY 15, 2019

DWG. NO. M2.3

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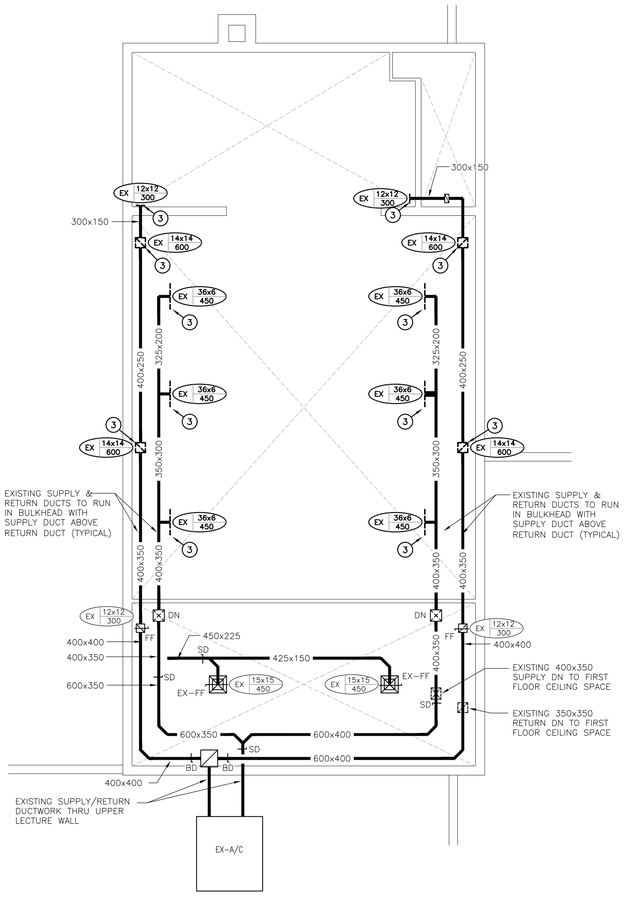
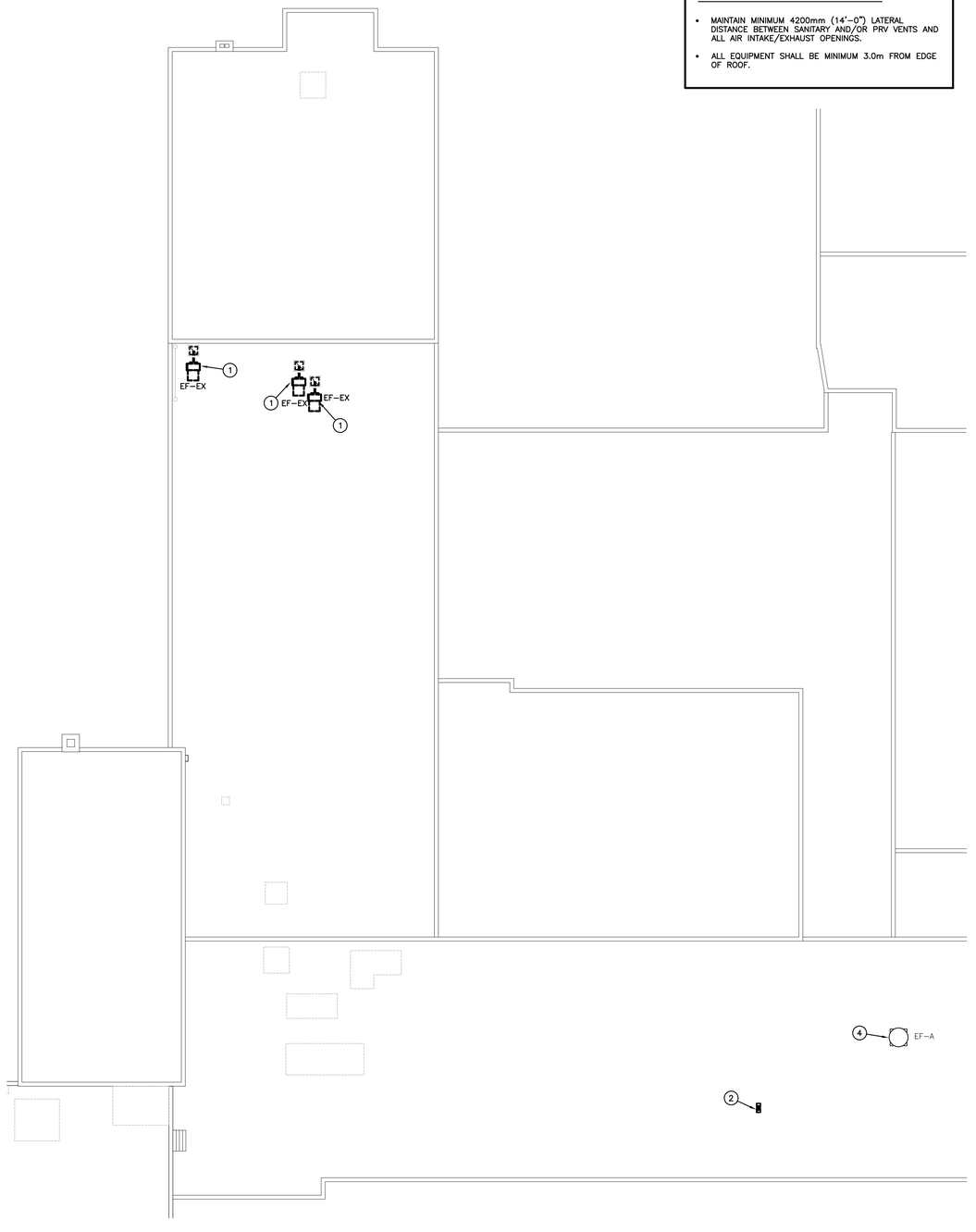


SECOND FLOOR PART PLAN – DEMOLITION

SCALE: 1:100



ROOF PART PLAN – DEMOLITION

SCALE: 1:200

GENERAL ROOF NOTES

- MAINTAIN MINIMUM 4200mm (14'-0") LATERAL DISTANCE BETWEEN SANITARY AND/OR PRV VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF.

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

1. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS TO BE REMOVED BEYOND COMPLETE.
2. EXISTING EXHAUST DUCT GOOSENECK TO BE REMOVED COMPLETE.
3. EXISTING GRILLE TO BE REMOVED COMPLETE. PREPARE DUCTWORK FOR NEW CONNECTION.
4. REFURBISH UNIT AS SPECIFIED.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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Project Number: 18296

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FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL SECOND FLOOR AND ROOF DEMOLITION PLANS

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
M.B. WHITE
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE: AS NOTED

DATE: FEB. 2019

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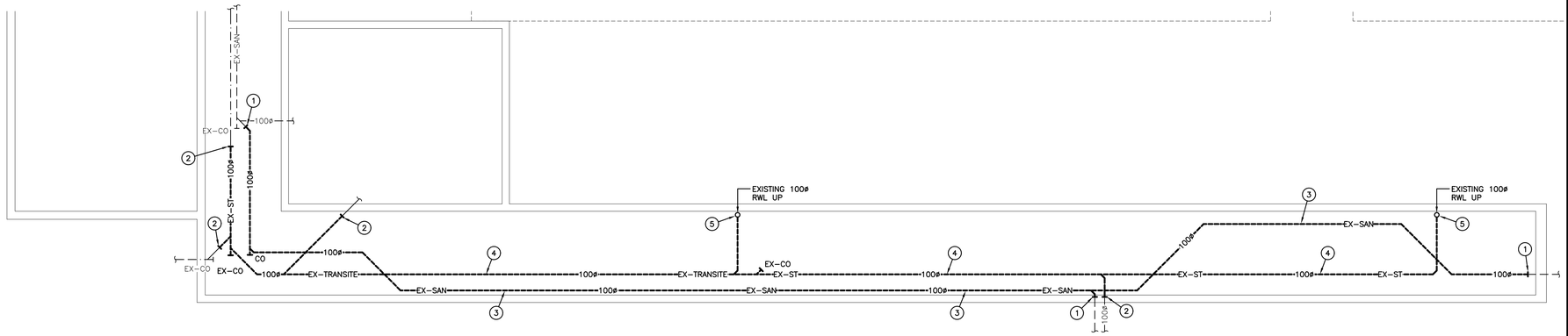


NOTE:
THE CRAWLSPACE IN THIS AREA IS DEFINED AS A "CONFINED SPACE", ANY PERSONNEL WORKING IN THIS AREA MUST HAVE CONFINED SPACE TRAINING, APPROPRIATE EQUIPMENT AND UNDERTAKE ALL WORK IN CONFORMANCE WITH APPROPRIATE CODES AND STANDARDS

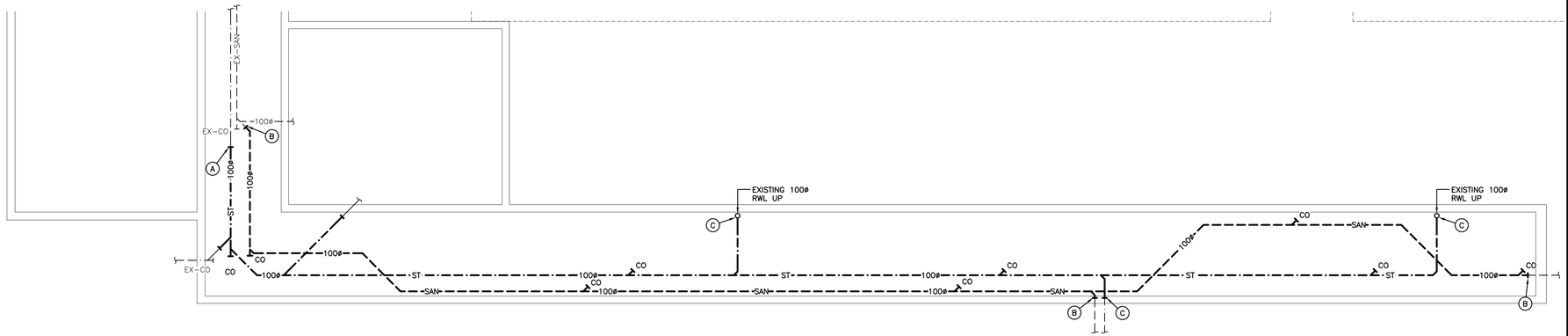
BASEMENT PART PLAN – DEMOLITION (SEPARATE PRICE)
SCALE: 1:100

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

1. EXISTING SANITARY PIPING TO BE CUT AND REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.
2. EXISTING STORM PIPING TO BE CUT AND REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.
3. EXISTING SANITARY MAIN TO BE REMOVED COMPLETE.
4. EXISTING STORM MAIN TO BE REMOVED COMPLETE.
5. EXISTING RWL TO BE CUT ON RISER AND REMOVED COMPLETE. PREPARE FOR NEW CONNECTION.



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BASEMENT PART PLAN – RENOVATION (SEPARATE PRICE)
SCALE: 1:100

GENERAL RENOVATION NOTES

- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO-ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600MM (12'-0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- NOT ALL EXISTING PIPING, DUCTWORK, WIRING, ETC. IS INDICATED. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS ON SITE AND MAKE SURE ALL PIPING, DUCTWORK, WIRING, ETC. CAN BE INSTALLED AS INDICATED PRIOR TO SUBMITTING TENDER PRICE.

SPECIFIC RENOVATION NOTES

A. CONNECT NEW 100ø STORM PIPING TO EXISTING 100ø STORM PIPING.

B. CONNECT NEW 100ø SANITARY PIPING TO EXISTING 100ø SANITARY PIPING.

C. CONNECT EXISTING 100ø RWL TO NEW 100ø STORM PIPING.

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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

CRAWL SPACE DEMOLITION/RENOVATION PLAN – SEPARATE PRICE

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
M.B. WHITE
100149074
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE: AS NOTED

DATE: FEB. 2019

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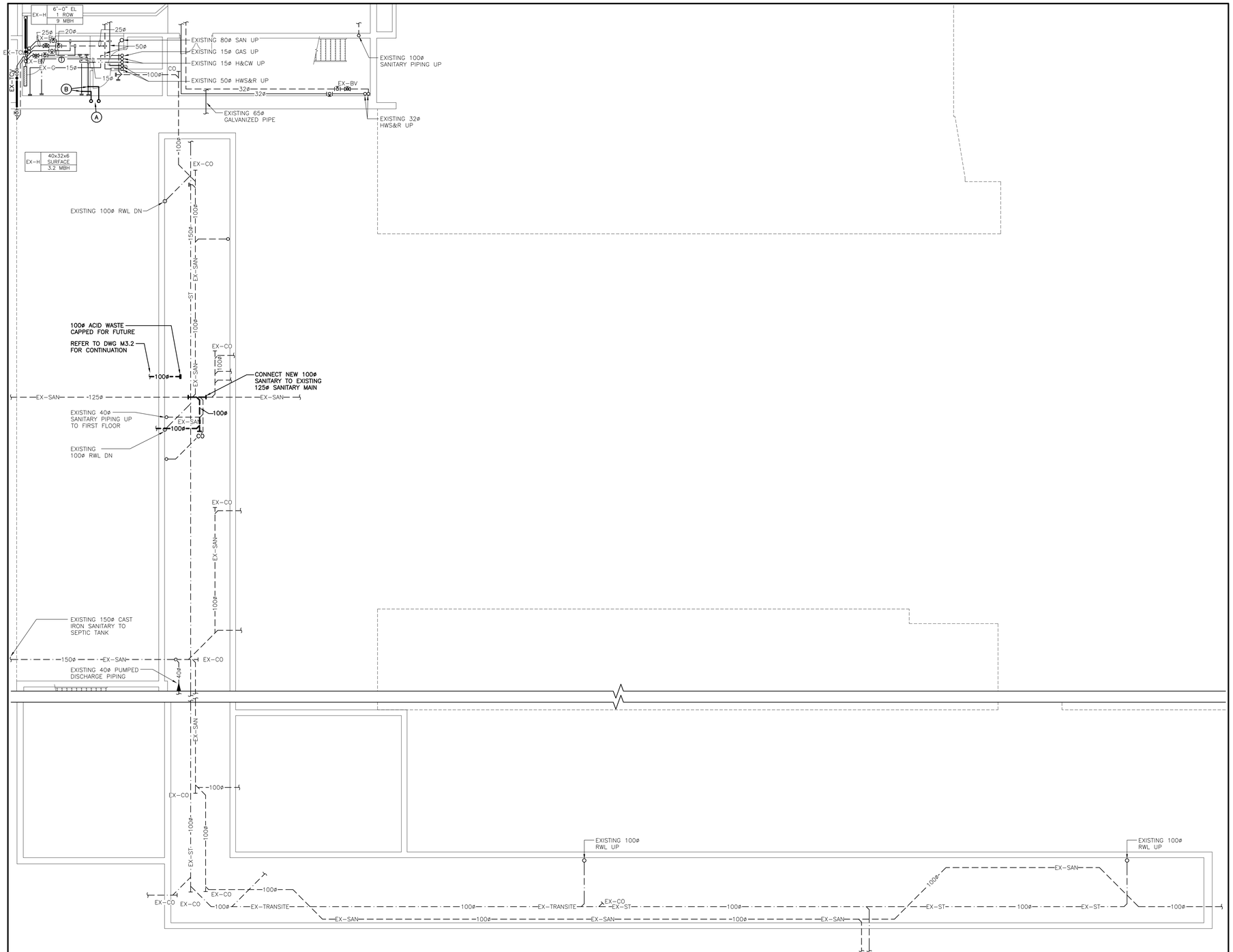

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BASEMENT PART PLAN – RENOVATION
SCALE: 1:100

GENERAL RENOVATION NOTES

- REFER TO ARCHITECTURAL MILLWORK DRAWINGS FOR LOCATION OF FIXTURES.
- COORDINATE UNDER FLOOR PIPE SLEEVES AND DRAINAGE PIPING.
- COORDINATE DRAINAGE PIPING WITH UNDER FLOOR ELECTRICAL PIPING. REFER TO ELECTRICAL DWGS.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO-ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600MM (12'-0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- REFER TO DEMOLITION DRAWINGS FOR EXTENT OF EXISTING PIPING ABOVE CEILINGS TO REMAIN.
- NOT ALL EXISTING PIPING, DUCTWORK, WIRING, ETC. IS INDICATED. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS ON SITE AND MAKE SURE ALL PIPING, DUCTWORK, WIRING, ETC, CAN BE INSTALLED AS INDICATED PRIOR TO SUBMITTING TENDER PRICE.

SPECIFIC RENOVATION NOTES

A. NEW 15ø H&CW PIPING UP THRU FLOOR TO NEW SINK.

B. CONNECT NEW 15ø H/CW PIPING TO EXISTING 15ø H/CW PIPING.

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Project Number: 18296

DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
PARTIAL CRAWL SPACE RENOVATION PLAN

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
M.B. WHITE
100490?A
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

JOB NO. 1920
SCALE AS NOTED
DATE FEB. 2019
PRINTED FEBRUARY 15, 2019
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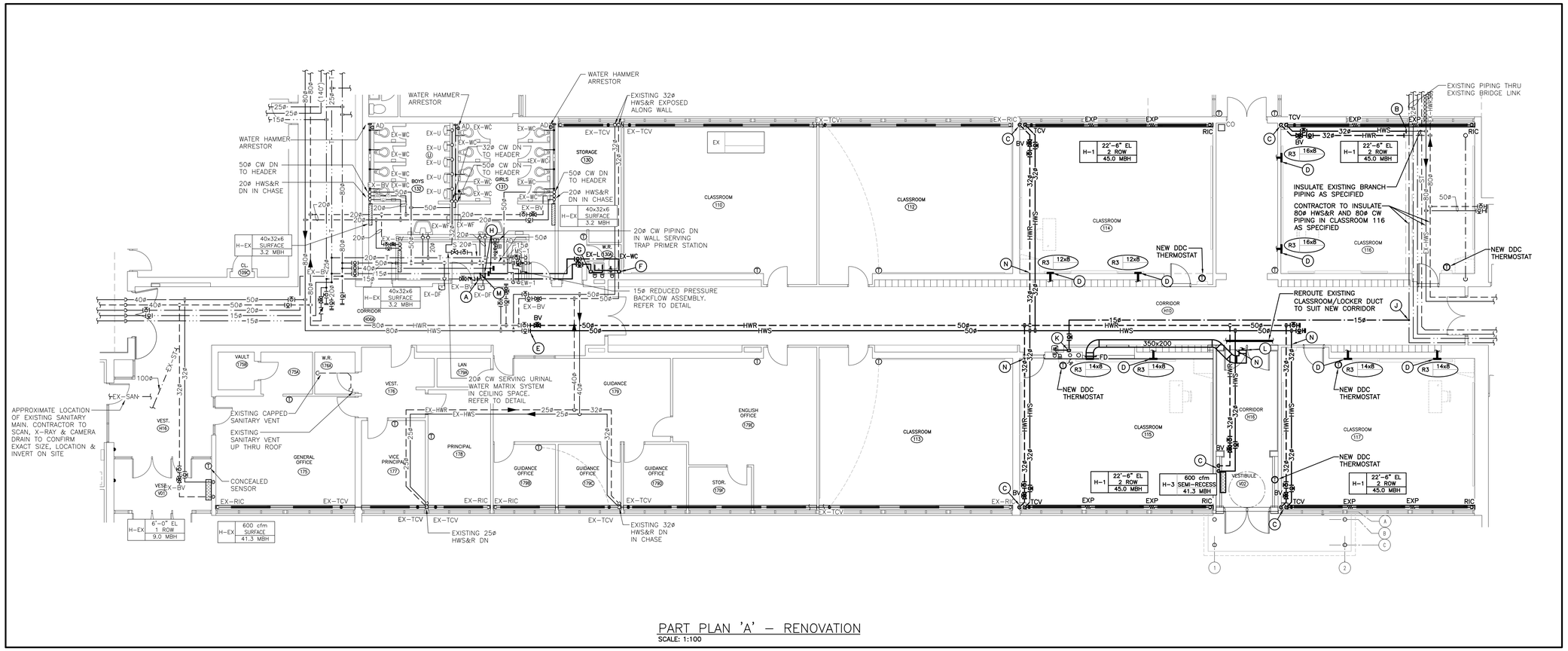
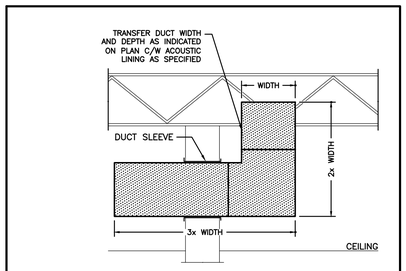
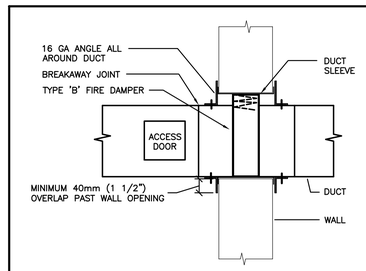


PART PLAN 'A' – RENOVATION

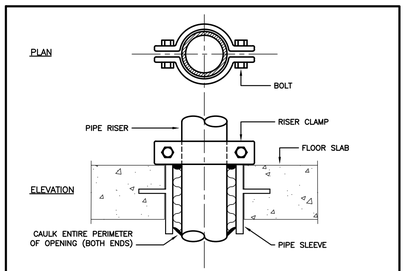
SCALE: 1:100



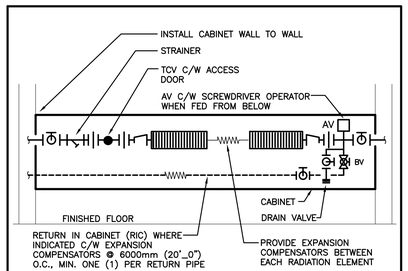
TRANSFER DUCT DETAIL



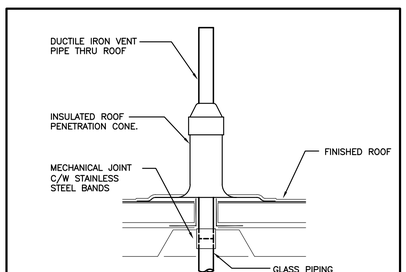
FIRE DAMPER INSTALLATION (TYPE 'B')



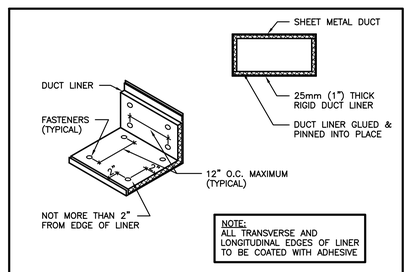
RISER CLAMP (CONCRETE)



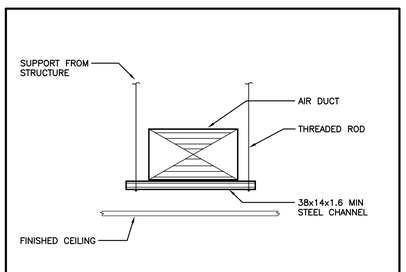
HEATING RADIATION PIPING



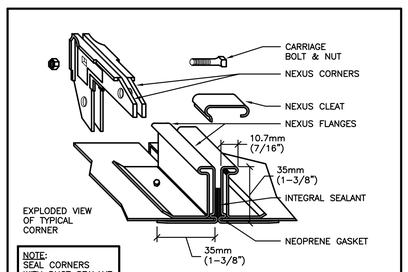
ACID WASTE SANITARY VENT THRU ROOF



ACOUSTIC LINING



DUCT SUPPORT IN CEILING



DUCT CONSTRUCTION

GENERAL RENOVATION NOTES

- REFER TO ARCHITECTURAL MILLWORK DRAWINGS FOR LOCATION OF FIXTURES.
- COORDINATE UNDER FLOOR PIPE SLEEVES AND DRAINAGE PIPING.
- COORDINATE DRAINAGE PIPING WITH UNDER FLOOR ELECTRICAL PIPING. REFER TO ELECTRICAL DWGS.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO-ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600MM (12'-0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- COORDINATE FINAL LOCATION OF GRILLES/DIFFUSERS ON SITE.
- THIS CONTRACTOR SHALL PROVIDE TIEWRAP TO WRAP 50 BUNDLES OF EXISTING LOOSE WIRES IN THE EXISTING CORRIDOR CEILING ON EACH FLOOR.
- REFER TO DEMOLITION DRAWINGS FOR EXTENT OF EXISTING PIPING ABOVE CEILINGS TO REMAIN.
- NOT ALL EXISTING PIPING, DUCTWORK, WIRING, ETC. IS INDICATED. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS ON SITE AND MAKE SURE ALL PIPING, DUCTWORK, WIRING, ETC, CAN BE INSTALLED AS INDICATED PRIOR TO SUBMITTING TENDER PRICE.

SPECIFIC RENOVATION NOTES

A. CONNECT NEW 15ø RECIRC. PIPING TO EXISTING 15ø RECIRC. PIPING.

B. CONNECT NEW 32ø HWS&R PIPING TO EXISTING 32ø HWS&R PIPING.

C. NEW 32ø HWS&R PIPING DN IN CHASE.

D. CONNECT NEW GRILLE TO EXISTING DUCTWORK.

E. CONNECT NEW 50ø HWS&R PIPING TO EXISTING 80ø HWS&R MAINS.

F. RUN NEW 15ø DOMESTIC CW DN IN CORNER EXPOSED C/W INSULATION & PVC JACKET. RUN DOMESTIC CW PIPING UNDER EX-WC TANK AND CONNECT TO EX-WC AND EX-L.

G. RUN NEW 15ø DOMESTIC HW DN IN CORNER EXPOSED C/W INSULATION & PVC JACKET. CONNECT DOMESTIC HW PIPING EX-L.

H. CONNECT NEW 15ø H&CW PIPING TO EXISTING 15ø HW AND 40ø CW PIPING.

J. CONNECT NEW 15ø CW PIPING TO EXISTING CW MAIN.

K. 15ø CW PIPING DN IN CHASE. RUN PIPING ALONG WALL TO EX-DF.

L. CONNECT NEW 350x200 DUCT TO EXISTING. CONTRACTOR TO CONFIRM SIZE ON SITE.

M. CONNECT NEW 15ø RECIRC PIPING TO EXISTING 15ø RECIRC PIPING.

N. COORDINATE NEW WALL PENETRATIONS WITH EXISTING LOCKER EXHAUST DUCTWORK.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL FIRST FLOOR RENOVATION PLANS & DETAILS

LICENSED PROFESSIONAL ENGINEER
15 Feb 19
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PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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DATE FEB. 2019

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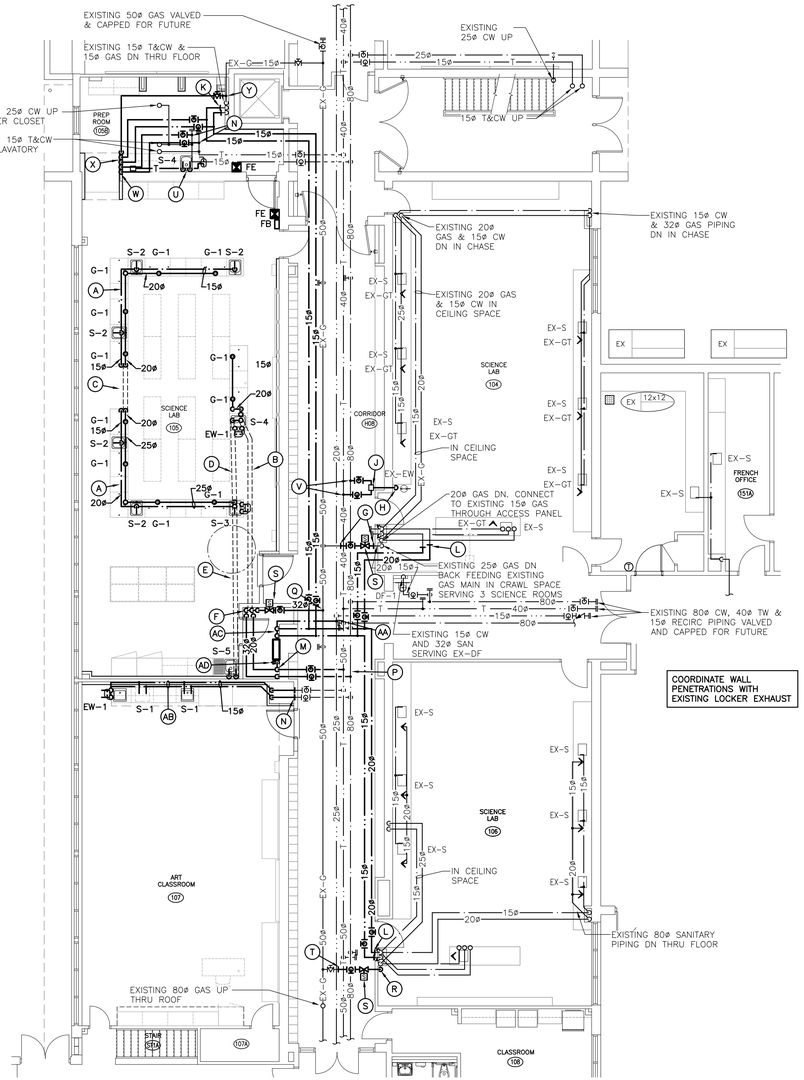
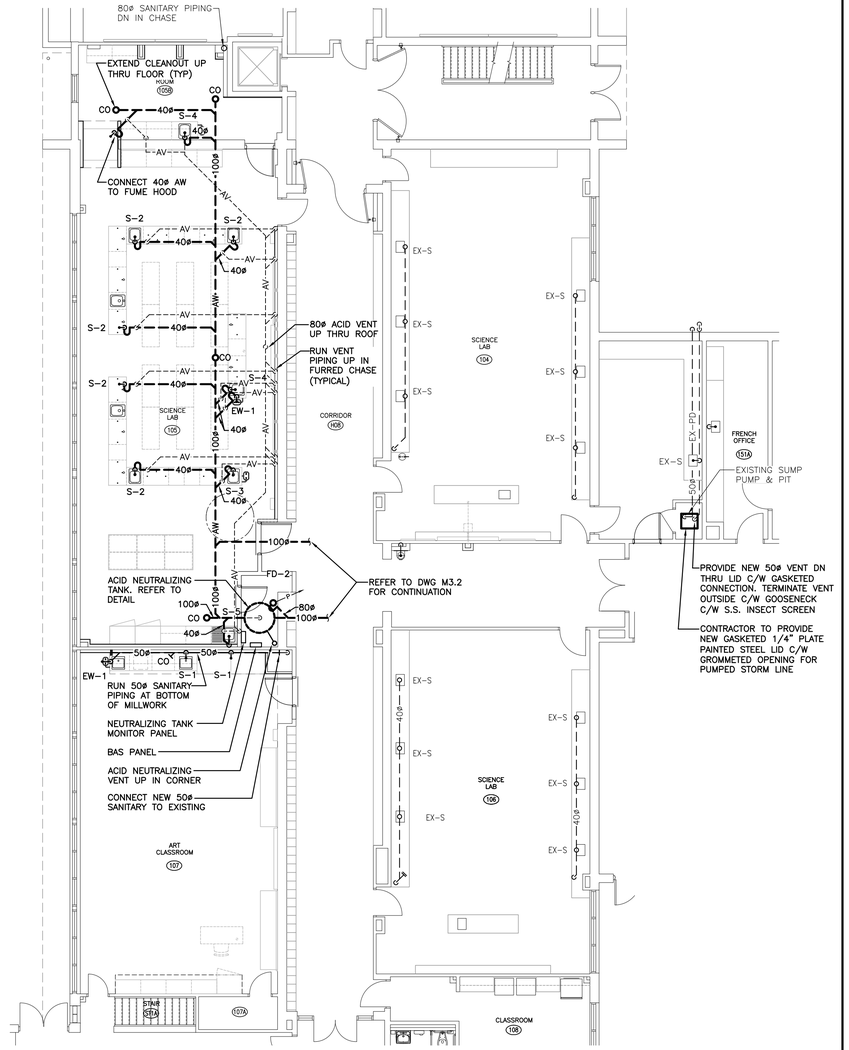


PART PLAN 'B' – PIPING RENOVATION

SCALE: 1:100



PART PLAN 'B' – DRAINAGE RENOVATION

SCALE: 1:100

GENERAL RENOVATION NOTES

- REFER TO ARCHITECTURAL MILLWORK DRAWINGS FOR LOCATION OF FIXTURES.
- COORDINATE UNDER FLOOR PIPE SLEEVES AND DRAINAGE PIPING.
- COORDINATE DRAINAGE PIPING WITH UNDER FLOOR ELECTRICAL PIPING. REFER TO ELECTRICAL DWGS.
- CO–ORDINATE ROUGH–IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO–ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600MM (12'–0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO–ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- COORDINATE FINAL LOCATION OF GRILLES/DIFFUSERS ON SITE.
- REFER TO DEMOLITION DRAWINGS FOR EXTENT OF EXISTING PIPING ABOVE CEILINGS TO REMAIN.
- NOT ALL EXISTING PIPING, DUCTWORK, WIRING, ETC. IS INDICATED. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS ON SITE AND MAKE SURE ALL PIPING, DUCTWORK, WIRING, ETC, CAN BE INSTALLED AS INDICATED PRIOR TO SUBMITTING TENDER PRICE.

SPECIFIC RENOVATION NOTES

A. RUN NEW CW & GAS PIPING IN MILLWORK CHASE.

B. NEW 20ø HW, 25ø CW & 32ø GAS IN 150ø PIPE SLEEVE UNDER FLOOR.

C. NEW 15ø CW & 20ø GAS IN 100ø PIPE SLEEVE UNDER FLOOR.

D. NEW 25ø CW, 15ø HW & 25ø GAS IN 100ø PIPE SLEEVE UNDER FLOOR.

E. NEW 15ø H&CW IN 100ø PIPE SLEEVE UNDER FLOOR.

F. NEW 20ø HW, 32ø CW, 15ø RECIRC AND 32ø GAS PIPING SERVING SCIENCE DESKS DN IN CHASE TO 150ø PIPE SLEEVE. REFER TO DETAIL.

G. CUT IN NEW ISOLATION VALVE AND EMERGENCY GAS SHUT OFF SOLENOID VALVE TO EXISTING 25ø GAS MAIN.

H. NEW 15ø TW DN ALONG WALL. CONNECT TO EXISTING EYEWASH.

J. NEW EMERGENCY THERMOSTATIC MIXING VALVE MOUNTED TO UNISTRUT AFFIXED TO WALL ABOVE CEILING.

K. CONNECT NEW SCIENCE 15ø H&CW PIPING TO EXISTING 15ø H&CW PIPING.

L. CONNECT NEW 15ø HW AND 20ø CW PIPING TO EXISTING 15ø HW AND 20ø CW PIPING.

M. 20ø HW AND 32ø CW PIPING DN TO RP BACKFLOW PREVENTER MOUNTED ON WALL.

N. CONNECT NEW 15ø H&CW PIPING TO EXISTING 15ø H&CW PIPING.

P. CONNECT NEW 32ø CW AND 20ø HW TO EXISTING H&CW MAINS.

Q. CONNECT NEW 32ø GAS PIPING TO EXISTING 50ø GAS PIPING.

R. NEW 25ø GAS LINE DN THRU EXISTING CHASE. TIE INTO EXISTING GAS MAIN BELOW EXISTING EMERGENCY SHUT OFF VALVE.

S. NEW EMERGENCY GAS SHUT OFF SOLENOID VALVE.

T. CONNECT NEW 25ø GAS LINE TO EXISTING 25ø CAPPED CONNECTION.

U. 15ø H&CW PIPING UP THRU FLOOR SERVING FIXTURE.

V. CONNECT NEW 15ø H&CW TO EXISTING 40ø HW AND 80ø CW MAINS.

W. 15ø H&CW DN IN WALL TO EMERGENCY THERMOSTATIC MIXING VALVE IN MILLWORK. RUN 15ø TW FROM EMERGENCY THERMOSTATIC MIXING VALVE IN MILLWORK TO EYEWASH.

X. 15ø H&CW AND GAS PIPING DN FUMEHOOD CHASE SERVING SINK AND GAS COCK.

Y. CONNECT NEW 15ø GAS LINE TO EXISTING 15ø GAS PIPING.

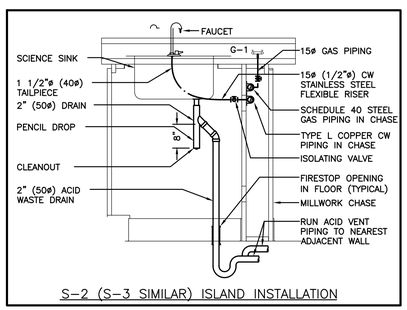
Z. NEW 20ø HW RP BACKFLOW DEVICE AND 32ø CW RP BACKFLOW DEVICE MOUNTED ON WALL.

AA. CONNECT NEW 15ø RECIRC TO EXISTING 25ø RECIRC.

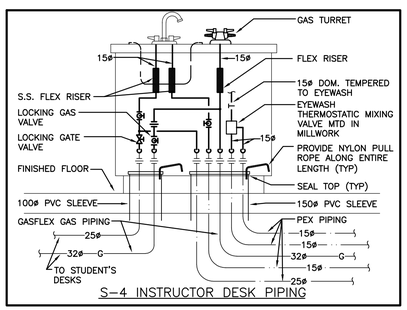
AB. NEW 15ø H&CW PIPING RUN AT BACK OF MILLWORK.

AC. 25ø HW AND 25ø CW UP IN CEILING SPACE SERVING SCIENCE LAB 106/104 AND PREP ROOM 105B.

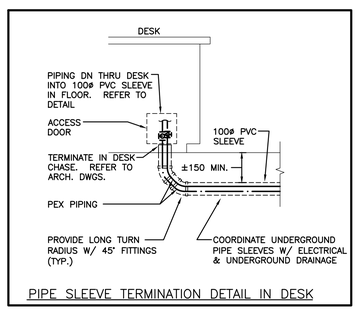
AD. 20ø CW DN TO TRAP PRIMER. REFER TO DETAIL.



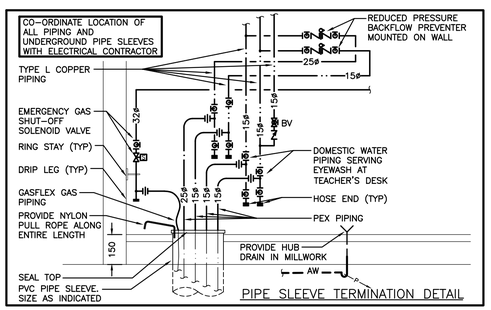
S–2 (S–3 SIMILAR) ISLAND INSTALLATION



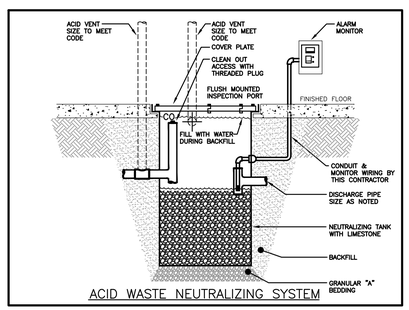
S–4 INSTRUCTOR DESK PIPING



PIPE SLEEVE TERMINATION DETAIL IN DESK



PIPE SLEEVE TERMINATION DETAIL



ACID WASTE NEUTRALIZING SYSTEM

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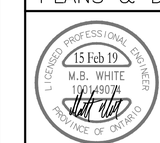
NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL SECOND FLOOR RENOVATION PLANS & DETAILS



TRUE NORTH | DWG. NORTH

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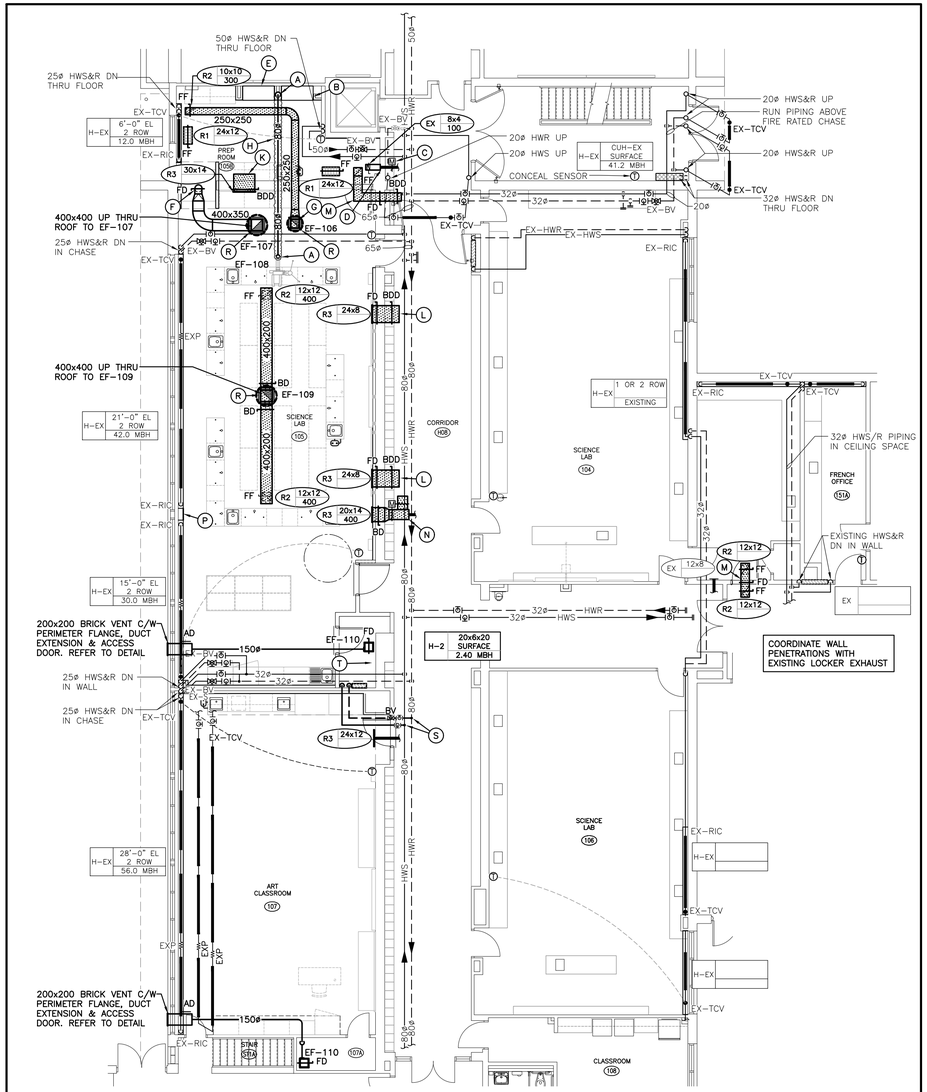
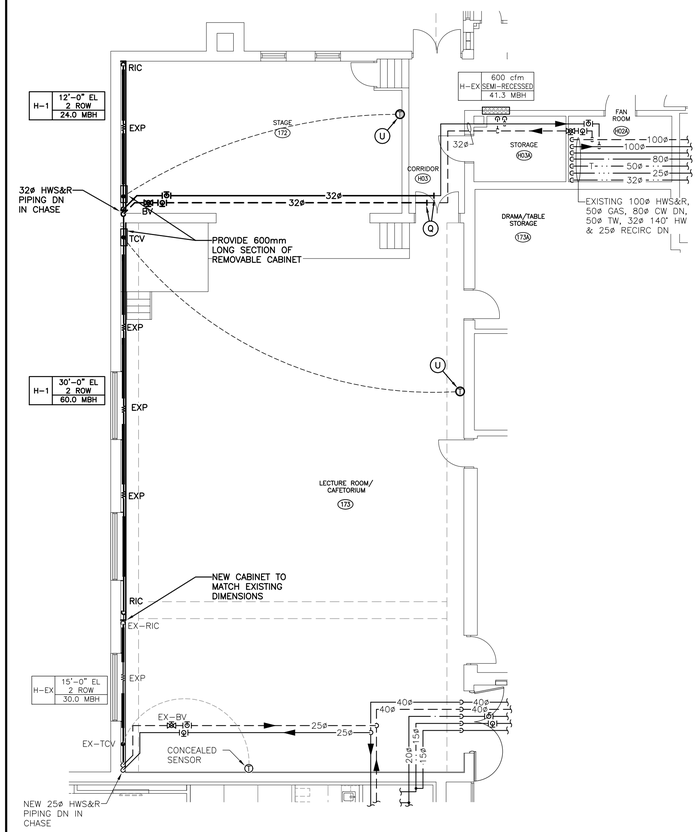


PART PLAN 'B' – HYDRONIC & VENTILATION RENOVATION

SCALE: 1:100



PART PLAN 'C' – RENOVATION

SCALE: 1:100

GENERAL RENOVATION NOTES

- REFER TO ARCHITECTURAL MILLWORK DRAWINGS FOR LOCATION OF FIXTURES.
- COORDINATE UNDER FLOOR PIPE SLEEVES AND DRAINAGE PIPING.
- COORDINATE DRAINAGE PIPING WITH UNDER FLOOR ELECTRICAL PIPING. REFER TO ELECTRICAL DWGS.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO-ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600MM (12'-0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- COORDINATE FINAL LOCATION OF GRILLES/DIFFUSERS ON SITE.
- THIS CONTRACTOR SHALL PROVIDE TIEWRAP TO WRAP 50 BUNDLES OF EXISTING LOOSE WIRES IN THE EXISTING CORRIDOR CEILING ON EACH FLOOR.
- REFER TO DEMOLITION DRAWINGS FOR EXTENT OF EXISTING PIPING ABOVE CEILINGS TO REMAIN.
- NOT ALL EXISTING PIPING, DUCTWORK, WIRING, ETC. IS INDICATED. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS ON SITE AND MAKE SURE ALL PIPING, DUCTWORK, WIRING, ETC. CAN BE INSTALLED AS INDICATED PRIOR TO SUBMITTING TENDER PRICE.

SPECIFIC RENOVATION NOTES

A. NEW 80ø S.S. ACID VENT DN TO CABINET AND UP THRU ROOF. REFER TO DETAIL.

B. NEW 50ø INTAKE AT HIGH LEVEL.

C. CUT IN NEW MOTORIZED DAMPER TO EXISTING DUCT.

D. CONNECT NEW 200x150 EXHAUST DUCT TO EXISTING.

E. EXISTING FLAMMABLE STORAGE CABINET. SEAL OPENINGS WITH NEW BUNG FROM CABINET MANUFACTURER.

F. 400x350 S.S. EXHAUST DN TO FUMEHOOD. TRANSITION TO 250ø VENT COLLAR AT FUME HOOD.

G. TRANSITION UP TO 300x300 UP TO EF-106.

H. PROVIDE 1-HR FIRE WRAP AROUND 80ø S.S. DUCT.

J. 400x400 S.S. EXHAUST DUCT UP THRU ROOF TO EF-109.

K. 750x350 TRANSFER DUCT.

L. 400x200 TRANSFER DUCT.

M. 300x300 TRANSFER DUCT.

N. CONNECT NEW 350x350 RA DUCT TO EXISTING.

P. PROVIDE H-1 TYPE CABINET EXTENSION TO CONNECT RAD CABINETS.

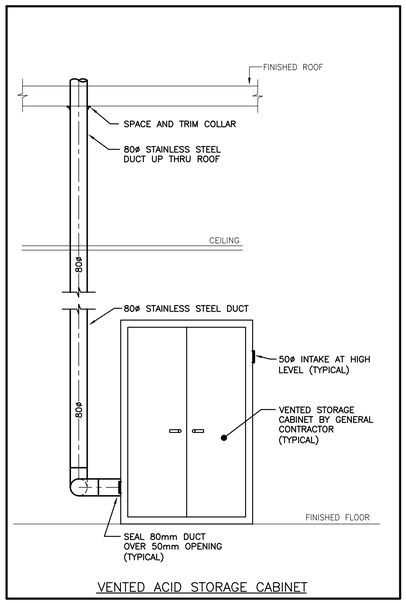
Q. CONNECT NEW 32ø HWS/R PIPING TO EXISTING 32ø HWS/R PIPING.

R. NEW ACOUSTIC SOUND PLENUM. REFER TO DETAIL.

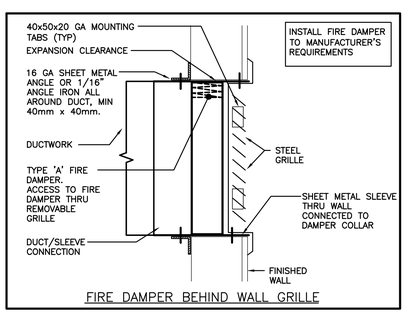
S. CONNECT NEW 20ø HWS&R PIPING TO EXISTING 80ø HWS&R MAINS.

T. 20ø HWS&R PIPING DN TO CONVECTOR.

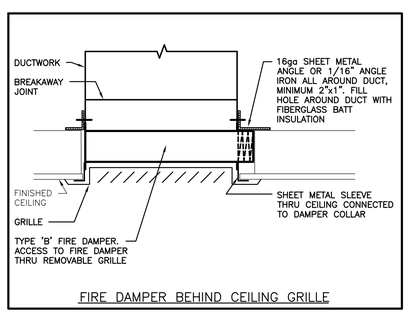
U. NEW DDC THERMOSTAT. FISH CONTROL WIRING DN THROUGH EXISTING BLOCK. IF NOT POSSIBLE, PROVIDE WIRE MOLD UP TO CEILING.



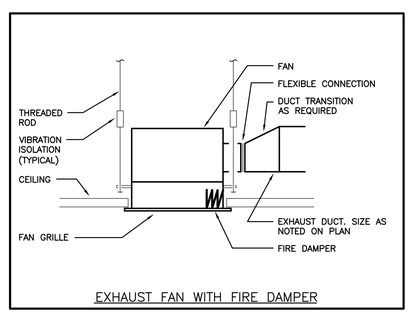
VENTED ACID STORAGE CABINET



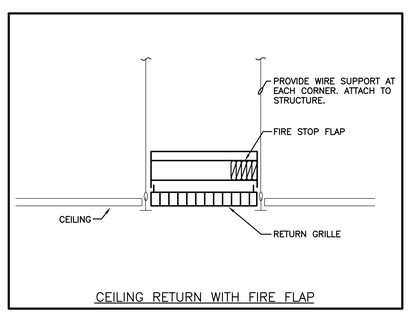
FIRE DAMPER BEHIND WALL GRILLE



FIRE DAMPER BEHIND CEILING GRILLE



EXHAUST FAN WITH FIRE DAMPER



CEILING RETURN WITH FIRE FLAP

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Project Number: 18296

DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL FIRST FLOOR RENOVATION PLANS & DETAILS

LICENSED PROFESSIONAL ENGINEER 15 Feb 19 M.B. WHITE 100149074 PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

JOB NO. 1920

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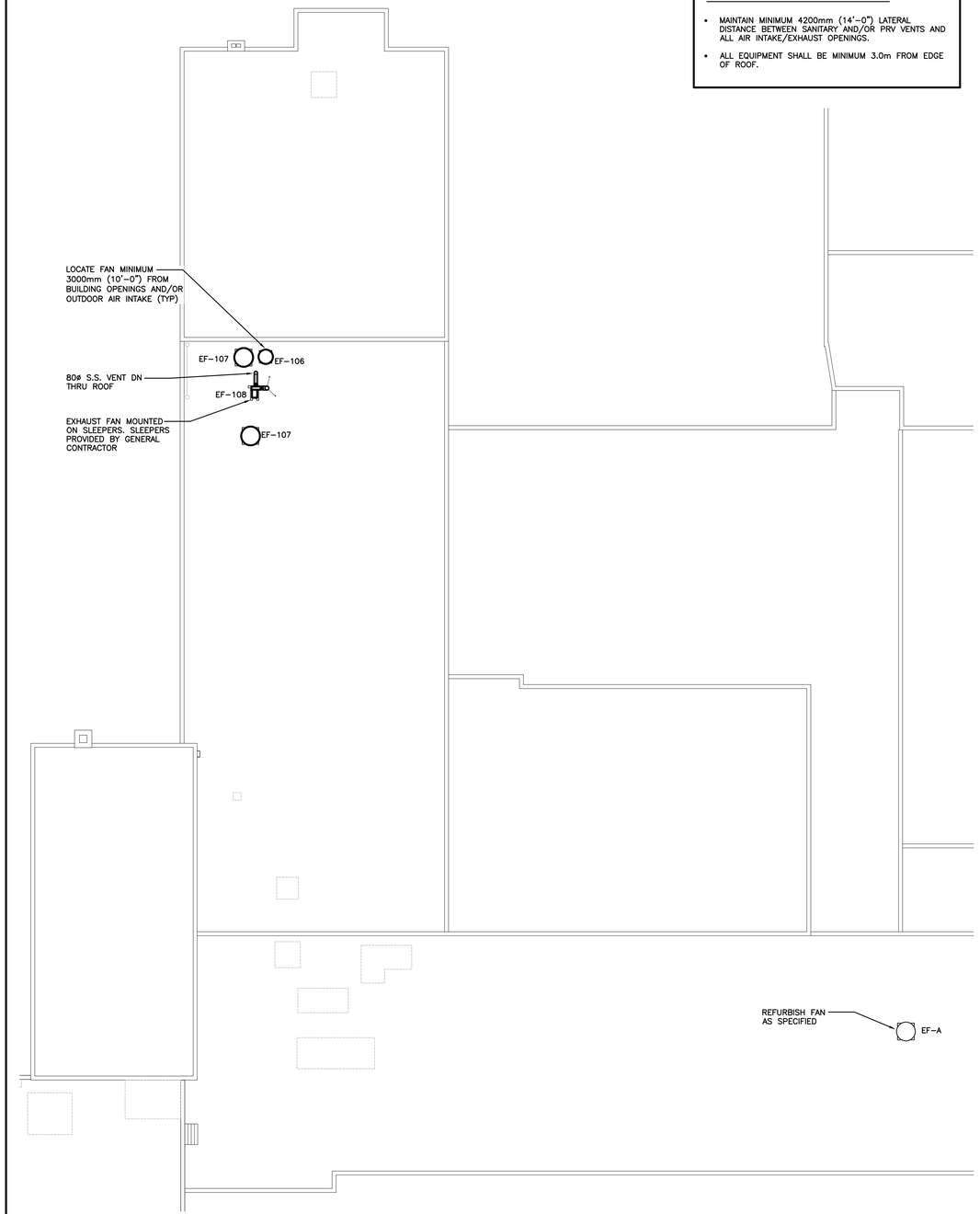
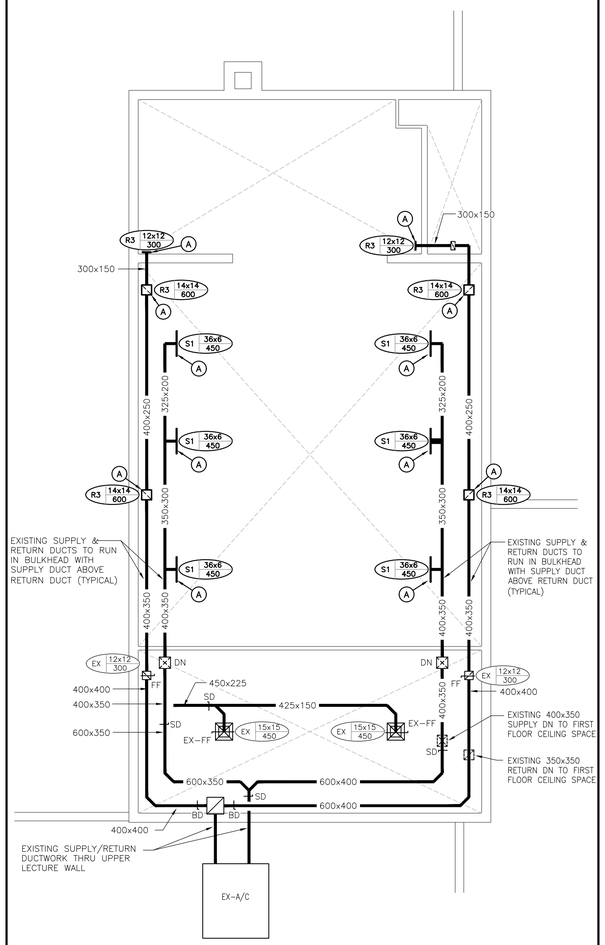
GENERAL ROOF NOTES

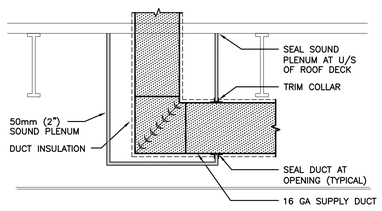
- MAINTAIN MINIMUM 4200mm (14'-0") LATERAL DISTANCE BETWEEN SANITARY AND/OR PRV VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF.



ROOF PART PLAN – DEMOLITION
SCALE: 1:200



SECOND FLOOR PART PLAN – RENOVATION
SCALE: 1:100



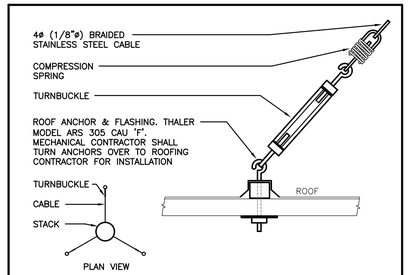
ACOUSTIC SOUND PLENUM

GENERAL RENOVATION NOTES

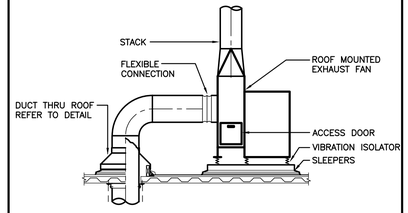
- REFER TO ARCHITECTURAL MILLWORK DRAWINGS FOR LOCATION OF FIXTURES.
- COORDINATE UNDER FLOOR PIPE SLEEVES AND DRAINAGE PIPING.
- COORDINATE DRAINAGE PIPING WITH UNDER FLOOR ELECTRICAL PIPING. REFER TO ELECTRICAL DWGS.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO-ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600MM (12'-0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- COORDINATE FINAL LOCATION OF GRILLES/DIFFUSERS ON SITE.
- THIS CONTRACTOR SHALL PROVIDE TIEWRAP TO WRAP 50 BUNDLES OF EXISTING LOOSE WIRES IN THE EXISTING CORRIDOR CEILING ON EACH FLOOR.
- REFER TO DEMOLITION DRAWINGS FOR EXTENT OF EXISTING PIPING ABOVE CEILINGS TO REMAIN.
- NOT ALL EXISTING PIPING, DUCTWORK, WIRING, ETC. IS INDICATED. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS ON SITE AND MAKE SURE ALL PIPING, DUCTWORK, WIRING, ETC. CAN BE INSTALLED AS INDICATED PRIOR TO SUBMITTING TENDER PRICE.

SPECIFIC RENOVATION NOTES

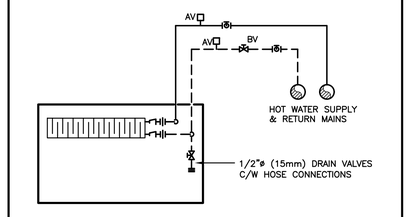
A. CONNECT NEW GRILLE TO EXISTING DUCTWORK.



EXHAUST STACK ANCHOR



CENTRIFUGAL ROOF EXHAUST FAN EF-108



HOT WATER CONVECTOR

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44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL SECOND FLOOR RENOVATION PLANS & DETAILS

LICENSED PROFESSIONAL ENGINEER 15 Feb 19 M.B. WHITE 100190074 PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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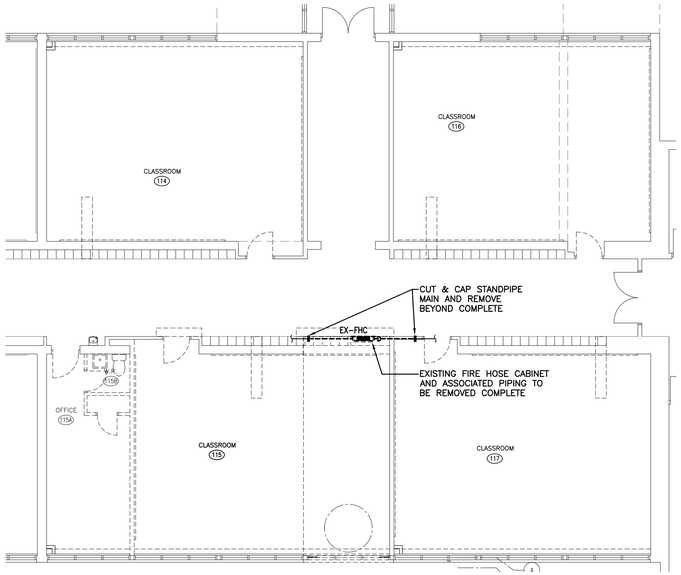
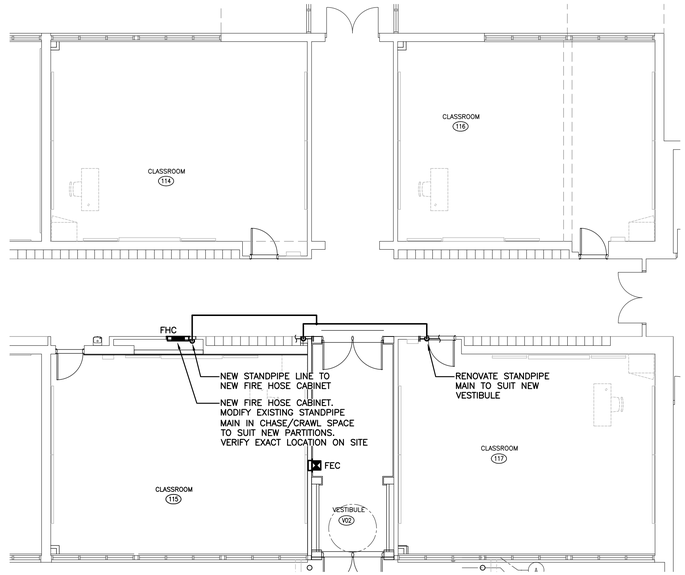


FIRST FLOOR FIRE PROTECTION PART PLAN – DEMOLITION

SCALE: 1:100



FIRST FLOOR FIRE PROTECTION PART PLAN – RENOVATION

SCALE: 1:100

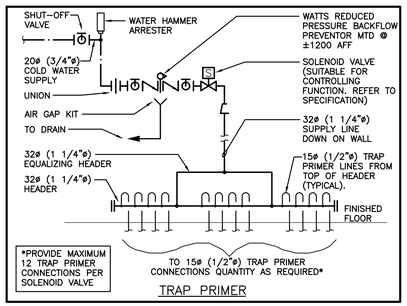
NOTE:
THE CRAWLSPACE IN THIS AREA IS DEFINED AS A "CONFINED SPACE". ANY PERSONNEL WORKING IN THIS AREA MUST HAVE CONFINED SPACE TRAINING, APPROPRIATE EQUIPMENT AND UNDERTAKE ALL WORK IN CONFORMANCE WITH APPROPRIATE CODES AND STANDARDS

GENERAL SPRINKLER NOTES

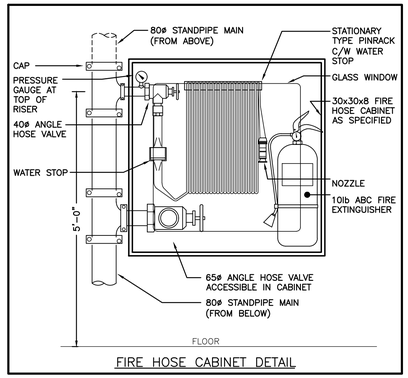
1. SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK.
2. ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 STANDARDS. ENSURE SPRINKLER SYSTEMS ARE INSTALLED TO NFPA 13 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1/8"=1'-0" SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
3. SPRINKLER CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
5. SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION
6. SPRINKLER CONTRACTOR TO VISIT SITE AND EVALUATE EXISTING CONDITIONS PRIOR TO TENDER CLOSING. INCLUDE ALL MODIFICATIONS IN TENDER PRICE.
7. EXISTING SPRINKLER SYSTEM TO BE RENOVATED/MODIFIED TO SUIT NEW LAYOUT. CONTRACTOR IS RESPONSIBLE TO SURVEY EXISTING SYSTEMS FOR CREATION OF SHOP DWGS.
8. COMMISSIONING OF INTEGRATED TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEM.
   - 8.1. SPRINKLER CONTRACTOR TO PROVIDE SERVICES WITH THE FIRE COMMISSIONING AGENT (FCA) TO MEET THEIR REQUIREMENTS OF ADMINISTRATION, VERIFICATION, AND FINAL SIGNOFF TO THE LOCAL AUTHORITIES AND CONSULTANT. THE FCA IS BEING RETAINED BY THE ELECTRICAL CONTRACTOR, HOWEVER, THIS CONTRACTOR'S WORK TO SATISFY THE FCA REQUIREMENTS SHALL BE INCLUDED IN THE TENDER PRICE.
   - 8.2. CHECK/TEST: MOVEMENT OF ALL VALVES, CREATE WATER FLOW AT ALL DEVICES TO VERIFY DETECTION AT FIRE ALARM PANEL, OPERATION OF ALL PUMPS &/OR COMPRESSORS.
   - 8.3. PERFORM ALL WORK IN ACCORDANCE WITH NFPA 3.
   - 8.4. RETURN SPRINKLER/STANDPIPE SYSTEM TO NORMAL OPERATION ON COMPLETION OF TESTING

STANDPIPE SYSTEM SHUT DOWN

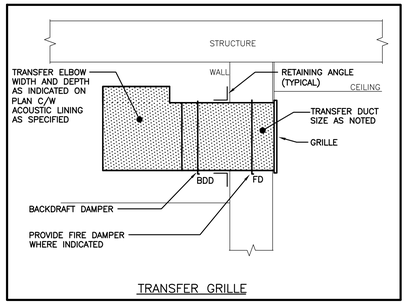
- THIS CONTRACTOR SHALL NOTIFY THE BUILDING DEPARTMENT AND THE AUTHORITY HAVING JURISDICTION IN WRITING SEVENTY TWO (72) HOURS IN ADVANCE OF ANY WORK. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO PROVIDE A TWENTY FOUR (24) HOUR FIRE WATCH WHILE THE COMPLETE EXISTING STANDPIPE SYSTEM IS NOT IN OPERATION. ALL COSTS ASSOCIATED WITH THE FIRE WATCH AND/OR ALL REQUIREMENTS BY THE BUILDING DEPARTMENT AND/OR AUTHORITY HAVING JURISDICTION WHILE THE EXISTING STANDPIPE SYSTEM IS SHUT DOWN SHALL BE BORNE BY THIS CONTRACTOR.



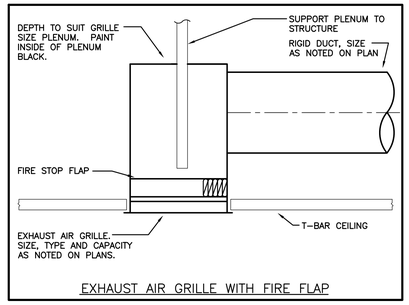
TRAP PRIMER



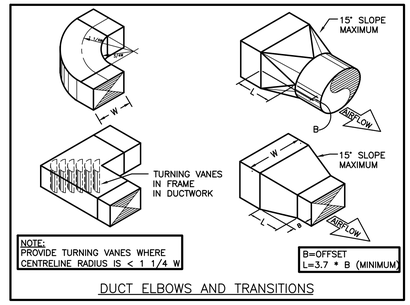
FIRE HOSE CABINET DETAIL



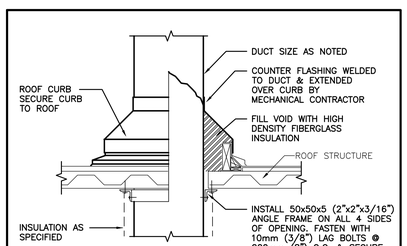
TRANSFER GRILLE



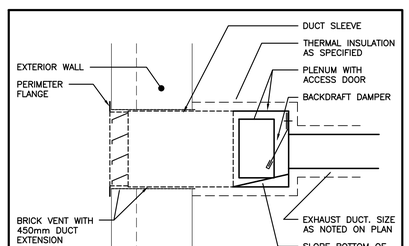
EXHAUST AIR GRILLE WITH FIRE FLAP



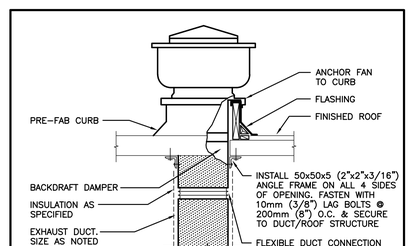
DUCT ELBOWS AND TRANSITIONS



DUCT THRU ROOF



BRICK VENT



UPBLAST EXHAUST FAN INSTALLATION

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DRAWING

FIRST FLOOR PART PLAN DEMOLITION AND RENOVATION – FIRE PROTECTION & DETAILS

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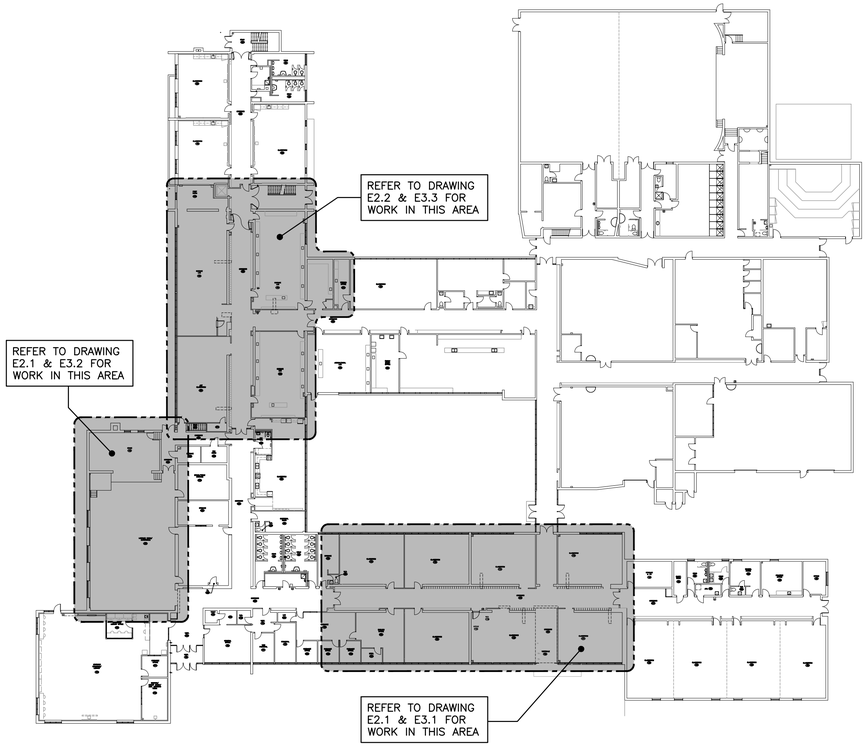

FIRST FLOOR KEY PLAN
SCALE: 1:400

ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

LIGHTING		POWER	
X	LIGHT FIXTURE TYPE AS INDICATED		WALL MOUNTED RECEPTACLE (15A–120V)
	COMBINATION EMERGENCY/EXIT TYPE AS INDICATED		WALL MOUNTED T–SLOT RECEPTACLE (20A–120V)
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED		T–SLOT RECEPTACLE MTD. ABOVE COUNTER (20A–120V)
	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE		RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A–120V)
	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE		SPECIAL RECEPTACLE
	SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE		QUAD RECEPTACLE
NB	DIGITAL NETWORK BRIDGE		DIRECT CONNECTION
EM–X DC–X X–X	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM–X INDICATES BATTERY UNIT TYPE, DC–X INDICATES DC CIRCUIT, AND X–X INDICATES AC SOURCE CIRCUIT	JB	JUNCTION BOX
		PB	PULLBOX
$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)		PANEL AS INDICATED
$OS	OCCUPANCY SENSOR (PASSIVE)		FUSED DISCONNECT
OSD/OSR $	OCCUPANCY SENSOR: OSD=DUAL TECHNOLOGY OSR=DUAL CIRCUIT/DUAL TECHNOLOGY		UNFUSED DISCONNECT
OS	DIGITAL CEILING MOUNTED MOTION SENSOR	VFD	VARIABLE FREQUENCY DRIVE
WOS	DIGITAL WALL MOUNTED MOTION SENSOR	DVR	DUAL VOLTAGE RELAY
DR	DIGITAL ROOM CONTROLLER		CLOCK AS PER SPECIFICATION
PC	PHOTOCELL		TIME SWITCH
XB	DIGITAL WALL STATION, 'X' DENOTES NUMBER OF CONTROL BUTTONS IN SINGLE GANG		0–15 MINUTE INTERVAL TIMER LEVITON DECORA PLUS CAT.#6215M
XB	DIGITAL MASTER WALL STATION, 'X' DENOTES NUMBER OF CONTROL BUTTONS IN SINGLE GANG	S	SPEED CONTROLLER
LDH	LOCK DOWN LIGHT (BLUE)		MANUAL STARTER
DM	DIGITAL DIMMER		MAGNETIC STARTER
FIRE ALARM			COMBINATION MAGNETIC STARTER
	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)		SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATION
S	SMOKE DETECTOR (RL=RELAY BASE)	HD	HAND DRYER
	PULLSTATION		PUSH–BUTTON STATION
	ALARM HORN (A, B = SIGNAL CIRCUIT)	C	CONTACTOR
	ALARM STROBE (A, B = SIGNAL CIRCUIT)		EXHAUST FAN
	COMBINATION HORN/STROBE (A, B = SIGNAL CIRCUIT)	RA	THERMOSTAT (RA=REVERSE ACTING) (HONEYWELL CAT. #T6051 SERIES)
EOL	END–OF–LINE RESISTOR		SOLENOID VALVE
DH	DOOR HOLD OPEN DEVICE		
IM	ISOLATOR MODULE		
CM	CONTROL MODULE		

ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

COMMUNICATIONS		GENERAL	
F	SINGLE WALL MOUNTED TELEPHONE OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO HANGER SYSTEM IN NEAREST CORRIDOR CEILING SPACE.	ER	INDICATED EXISTING ITEM TO REMAIN
		D	INDICATES EXISTING ITEM TO BE DELETED
		R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION
F	SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO HANGER SYSTEM IN NEAREST CORRIDOR CEILING SPACE. '#' INDICATES THE QUANTITY OF ACTIVE PORTS BEYOND ONE TO BE PROVIDED. AP=WIRELESS ACCESS POINT (PROVIDE TERMINATED JACK AND 3000mm OF COILED CABLE C/W TERMINATED JACK IN CEILING SPACE)	WG	WIREGUARD
		GF	GROUND FAULT
AP		WP	WEATHERPROOF
F	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO HANGER SYSTEM IN NEAREST CORRIDOR CEILING SPACE. '#' INDICATES THE QUANTITY OF ACTIVE PORTS BEYOND ONE TO BE PROVIDED.	AC	AUTOMATICALLY CONTROLLED RECEPTACLE
		X	NOTE INDICATOR
		X	MECHANICAL ITEM NO.
TV	TELEVISION OUTLET		
	DUAL HANGER SYSTEM (REFER TO DETAILS)		
	HANDSET (ND = NON–DIAL STYLE)		
$CS	P.A. CALL SWITCH		
	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)		
	WALL MOUNTED SPEAKER C/W CALL–IN SWITCH		
	CEILING MOUNTED SPEAKER		
M	MICROPHONE OUTLET		
SECURITY			
	SECURITY DETECTOR (SURFACE MOUNTED) # INDICATES ZONE EXPANSION PANEL THAT IT IS CONNECTED TO. "H" INDICATES THAT THE DETECTOR IS CONNECTED TO THE MAIN CONTROL PANEL.		
KP	SECURITY KEYPAD (INSTALL 1200mm AFF) C/W 19mmC TO NEAREST SECURITY JUNCTION BOX		
DC	DOOR CONTACT C/W 19mmC TO NEAREST SECURITY JUNCTION BOX (REFER TO DETAIL) # INDICATES ZONE EXPANSION PANEL THAT IT IS CONNECTED TO.		
STANDARD CIRCUITING LABELING			
A–1–1	POWER PANEL LABEL CIRCUIT INDICATION SWITCH LEG (IF APPLICABLE)		
A	AUXILIARY OUTLET		

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DRAWING
LEGEND AND KEY PLAN

LICENSED PROFESSIONAL ENGINEER
T.G.G. MOHAMED
100507819
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PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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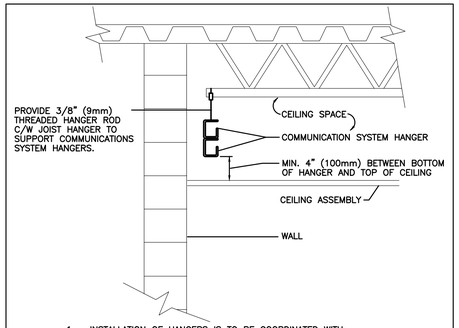
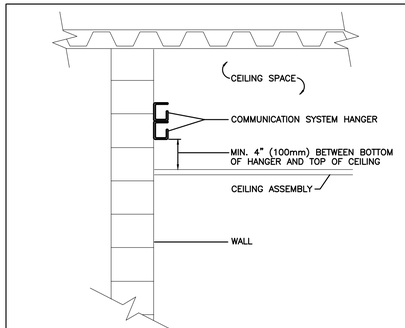


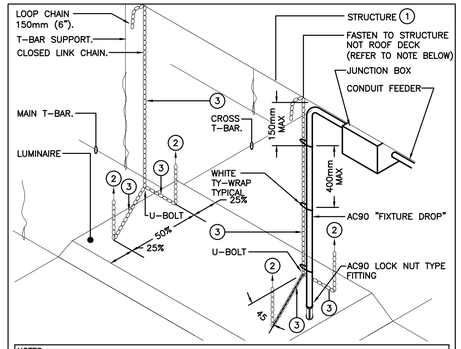
1. INSTALLATION OF HANGERS IS TO BE COORDINATED WITH DIV. 15 AND ALL OTHER ASSOCIATED TRADES.
2. HANGERS ARE TO BE INSTALLED IN LINE ALONG LENGTH OF CORRIDOR AT MAXIMUM 4'-0" (1200mm) INTERVALS.
3. REFER TO SPECIFICATION FOR ALTERNATE TO USE WIRE MESH CABLE TRAY.

A–CEILING MOUNTED CABLE HANGER DETAIL
SCALE: NTS



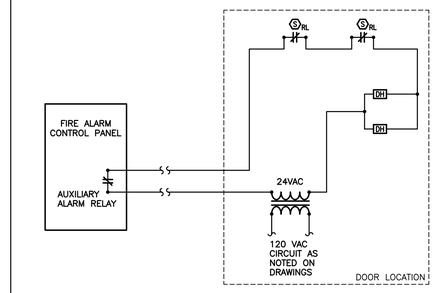
1. INSTALLATION OF HANGERS IS TO BE COORDINATED WITH DIV. 15 AND ALL OTHER ASSOCIATED TRADES.
2. HANGERS ARE TO BE INSTALLED IN LINE ALONG LENGTH OF CORRIDOR AT MAXIMUM 4'-0" (1200mm) INTERVALS.
3. REFER TO SPECIFICATION FOR ALTERNATE TO USE WIRE MESH CABLE TRAY.

B–WALL MOUNTED CABLE HANGER DETAIL
SCALE: NTS



NOTES:
1) IF STRUCTURE DOES NOT EXIST IMMEDIATELY ABOVE FIXTURE. PROVIDE UNISTRUT CHANNEL SPANNING ACROSS STRUCTURE FOR FIXTURE SUSPENSION.
2) INDICATES INDEPENDENT SUSPENSION TO STRUCTURE THAT IS TO BE INCLUDED IN BASE TENDER TO SUIT SEISMIC RESTRAINT REQUIREMENTS.
3) IF SEISMIC RESTRAINT REQUIREMENTS ARE NOT REQUIRED AS PART OF THE SPECIFICATION, THEN THE FIXTURES ARE TO BE SUSPENDED TO STRUCTURE USING THIS METHOD.

C–LUMINAIRE SUSPENSION DETAIL
SCALE: NTS

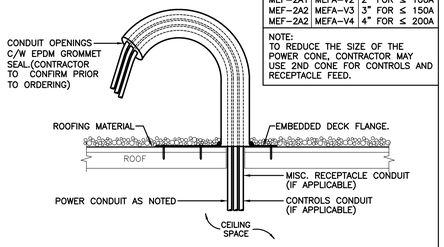


NOTE: THE DOOR HOLDER MUST RELEASE WHEN THE SMOKE DETECTORS LOCAL TO THE DOOR ARE IN ALARM OR WHEN THERE IS AN ALARM CONDITION ON THE FIRE ALARM SYSTEM.

D–DOOR HOLDER WIRING SCHEMATIC
SCALE: NTS

THALER CAT.#	ALTRA CAT.#	FLEXIBLE CONDUIT SIZE
MEF–2A1	MEFA–V2	2" FOR ≤ 100A
MEF–2A2	MEFA–V3	3" FOR ≤ 150A
MEF–2A3	MEFA–V4	4" FOR ≤ 200A

NOTE:
TO REDUCE THE SIZE OF THE POWER CONE, CONTRACTOR MAY USE 2ND CONE FOR CONTROLS AND RECEPTACLE FEED.



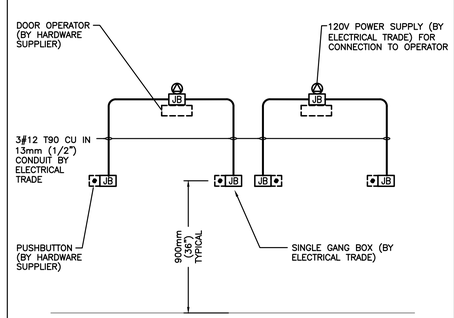
COORDINATE EXACT CONE LOCATION WITH MECHANICAL TRADE. ROOF CONE SHALL BE ALUMINUM PRE–INSULATED FLASHING FOR MULTIPLE FLEXIBLE CONDUIT AS NOTED. ACCEPTABLE MANUFACTURERS ARE THALER METAL INDUSTRIES OR ALTRA METAL SPECIALTIES INC.

CONDUIT OPENING THROUGH ROOF DECK / MATERIAL IS TO BE PROVIDED BY THE GENERAL TRADE.

TURN OVER CONE TO ROOFER FOR INSTALLATION.

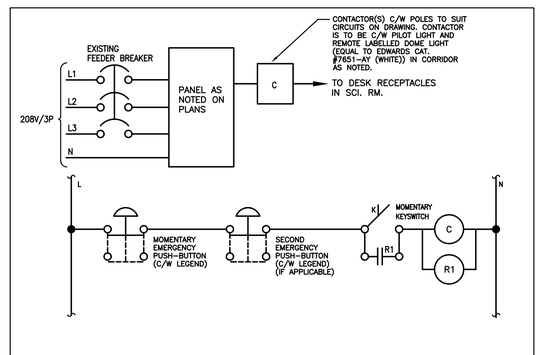
SUBMIT SHOP DRAWING AS PER THE SPECIFICATION.

E–ROOF PENETRATION DETAIL
SCALE: NTS



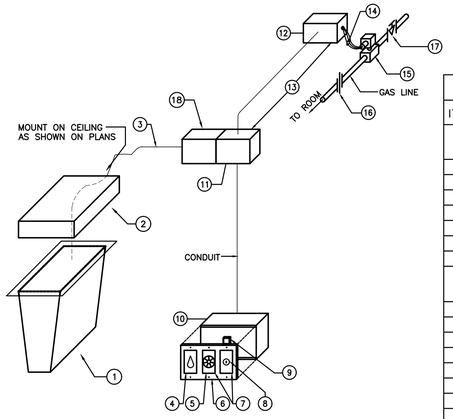
THIS CONTRACTOR IS TO MAKE ALL CONNECTIONS TO ALL DEVICES AS SUPPLIED BY THE HARDWARE CONTRACTOR.

F–DOOR OPERATOR DETAIL
SCALE: NTS

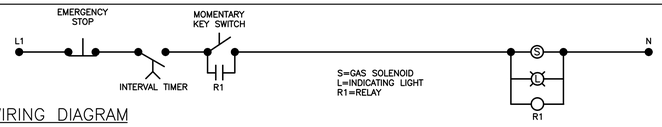


KEY SWITCH STATION SHALL BE ALLEN–BRADLEY CAT. #800T–H48D1
EMERGENCY PUSHBUTTON STATION SHALL BE ALLEN–BRADLEY CAT. #800T–D6D2

G–EMERGENCY CONTROL FOR SCIENCE AREA
SCALE: NTS



H–INSTALLATION SCHEMATIC
SCALE: NTS



WIRING DIAGRAM

BILL OF MATERIALS

ITEM #	DESCRIPTION	MANUFACTURER	QUAN.	CATALOG #	REMARKS
1	INDICATING LIGHT (RED)	EDWARDS	1	7641R–1G5	MOUNT THE INDICATING LIGHT ON THE CEILING AS INDICATED ON PLANS. INDICATING LIGHT MUST BE VIEWABLE FROM WINDOW IN THE CLASSROOM DOOR.
2	WIREMOLD MOUNTING BOX	HUBBELL	1	V2048	
3	1/2" EMT CONDUIT (BX AS APPROVED BY OWNER)		AS REQ'D		
4	60 MINUTE TIMER (COLOUR TO MATCH WIRING DEVICES AND COVERPLATES)	TORK	1	A560M–X	
5	GAS CONTROL MUSHROOM HEAD EMERGENCY PUSH BUTTON	ALLEN–BRADLEY	1	800T–D6D2	
6	3–GANG COVERPLATE (SS)	LEVITON	1	84411–40	
7	BLANK DECORA (COLOUR TO MATCH WIRING DEVICES AND COVERPLATES)	LEVITON	2	80414–X	DRILL HOLE ON CENTER IN BLANK DECORA PLATE AND MOUNT TELEMECHANIQUE STOP/START PUSHBUTTON. DRILL HOLE ON CENTER IN BLANK DECORA PLATE AND MOUNT KEYSWITCH.
8	KEYSWITCH	TELEMECANIQUE	1	ZB2–BG6	
		TELEMECANIQUE	1	ZB2–BE101	
9	RELAY (R1)	OMRON	1	G2R–1–T (120VAC)	
10	3 GANG BOX	IBERVILLE	1	MBD–3–K	MOUNT THE CONTROL SWITCH PANEL AT THE LOCATION AS NOTED ON THE FLOOR PLAN.
11	JUNCTION BOX	IBERVILLE	1	72171–1	
12	JUNCTION BOX	IBERVILLE	1	52151–1/2	
13	JUNCTION BOX COVERPLATE	IBERVILLE	2	52–C–1	
14	NON–METALLIC LIQUIDTIGHT CONDUIT		AS REQ'D	LTC–03	
15	SOLENOID VALVE– 1/2" NPT	ASCOLECTRIC LTD.	1	8215G30	SOLENOID VALVE PROVIDED BY DIVISION 15. THIS CONTRACTOR IS TO CO–ORDINATE AND CONNECT ACCORDINGLY.
16	ISOLATING UNION– 1/2"X1/2" NPT		1	(TO MATCH PIPING)	(BY DIV. 15)
17	ISOLATING GAS VALVE– 1/2" NPT	MUELLER	1	H–11170	MOUNT THE ISOLATING VALVE ASSEMBLY IN THE GAS LINE IN THE TEACHER'S CUPBOARD (OR OTHER SPECIFIED LOCATION). (BY DIV. 15)
18	STEPDOWN TRANSFORMER FOR INDICATING LIGHT.	EDWARDS	1	599	STEPDOWN TRANSFORMER FOR INDICATING LIGHT

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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Phone: 519-725-3555 Fax: 519-725-2515
Website: deiassociates.ca
Project Number: 18296

DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
DETAILS

LICENSED PROFESSIONAL ENGINEER
T.G.G. MOHAMED
100507819
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

JOB NO. 1920

SCALE: AS NOTED

DATE: FEB. 2019

PRINTED: FEBRUARY 15, 2019

DWG. NO. E1.2

MOFFET & DUNCAN
architects inc.
5052 DUNDAS ST. WEST
TORONTO, ON. M9A 1B9
TEL: (416) 239–2775
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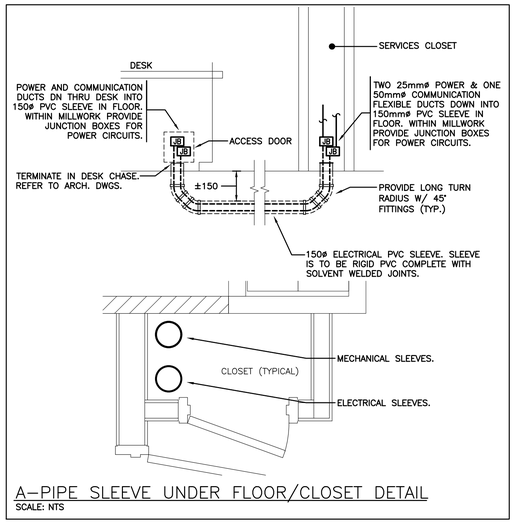

A–PIPE SLEEVE UNDER FLOOR/CLOSET DETAIL

SCALE: NTS

PANEL 'H1'

VOLTAGE: 120/208 VOLTS
PHASE: 1P, 3W (PROVIDE 3P/4W IF RE–FED)
MAINS: 100A
NEUTRAL BUS: 200%
MOUNTING: RECESSED
NOTES:

* INDICATES EXISTING CIRCUIT. CONTRACTOR IS TO DETERMINE LOAD AND INCLUDE ON FINAL DIRECTORY. EXISTING BREAKER SIZES TO BE CONFIRMED ON SITE, NOTED BREAKER IS FOR PRICING PURPOSES ONLY.

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

* EXISTING	15A	1	2	15A	* EXISTING
* EXISTING	15A	3	4	15A	* EXISTING
* EXISTING	15A	5	6	15A	* EXISTING
* EXISTING	15A	7	8	15A	* EXISTING
* EXISTING	15A	9	10	15A	* EXISTING
* EXISTING	15A	11	12	15A	* EXISTING
* EXISTING	15A	13	14	15A	* EXISTING
* EXISTING	15A	15	16	15A	* EXISTING
* EXISTING	15A	17	18	20A	* EXISTING
	2P	19	20	20A	* EXISTING
CONTROLLED REC'S RM.114	15A	21	22	15A	CONTROLLED REC'S RM.116
CONTROLLED REC'S RM.115	15A	23	24	15A	CONTROLLED REC'S RM.117
CORR H1 REC'S.	20A	25	26	15A	VEST. V02 DOOR OPERATORS
CORR. H10/H15 DOOR HOLDERS	15A	27	28	15A	VEST. HEATER (6)
GEN. REC'S RM.114	15A	29	30	15A	GEN. REC'S RM.116
GEN. REC'S RM.115	15A	31	32	15A	GEN. REC'S RM.117
CORR H1 REC'S.	20A	33	34	15A	SPARE
SPARE	15A	35	36	15A	SPARE
SPACE		37	38		SPACE
SPACE		39	40		SPACE
SPACE		41	42		SPACE

(PROVIDE 60 CIRCUIT PANEL IF PANEL 'H1' IS TO BE RE–FED)

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 22,000A. PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

– THIS PANEL IS TO BE COMPLETE WITH INTEGRAL SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATIONS.
– ALL AUTOMATICALLY CONTROLLED RECEPTACLES FED FROM THIS PANEL ARE TO BE PERMANENTLY MARKED & GREEN IN COLOUR.
– ALL OTHER RECEPTACLES FED FROM THIS PANEL ARE TO BE GREY IN COLOUR.

PANEL 'S'

VOLTAGE: 120/208 VOLTS
PHASE: 3P, 4W
MAINS: 100A
NEUTRAL BUS: 200%
MOUNTING: SURFACE
NOTES:

* INDICATES EXISTING CIRCUIT. CONTRACTOR IS TO DETERMINE LOAD AND INCLUDE ON FINAL DIRECTORY. EXISTING BREAKER SIZES TO BE CONFIRMED ON SITE, NOTED BREAKER IS FOR PRICING PURPOSES ONLY.

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

* EXISTING	30A	1	2	30A	* EXISTING
* EXISTING	30A	3	4	2P	* EXISTING
* EXISTING	30A	5	6	30A	* EXISTING
* EXISTING	30A	7	8	30A	* EXISTING
GAS SHUT OFF CONTROL (RM105)	15A	9	10	15A	GAS SHUT OFF CONT. (RM104)
GAS SHUT OFF CONT. (RM106)	15A	11	12	15A	SCI. RM 106 WORK TOP REC.
SCI. RM 104 SMBD. REC.	15A	13	14	15A	SCI. RM 104 WORK TOP REC.
SCI. RM 105 FUME HOOD LIGHT	15A	15	16	15A	SCI. RM 105 FUME HOOD REC
SCI. RM 105 PREP. RM. REC	20A	17	18	20A	SCI. RM 105 PREP. RM. REC
ART RM 107 TEACHING REC	15A	19	20	20A	ART RM 107 WORKTOP REC
ART/ST RM. GEN. REC.	15A	21	22	15A	ART RM. GEN. REC.
ART RM. GEN. REC.	15A	23	24	15A	ART RM. GEN. REC.
SCI. RM 105 STUDENT REC	20A	25	26	20A	SCI. RM 105 STUDENT REC
SCI. RM 105 STUDENT REC	20A	27	28	20A	SCI. RM 105 STUDENT REC
SCI. RM 105 STUDENT REC	20A	29	30	20A	SCI. RM 105 STUDENT REC
SCI. RM 105 STUDENT REC	20A	31	32	20A	SCI. RM 105 STUDENT REC
SCI. RM 105 STUDENT REC	20A	33	34	20A	SCI. RM 105 TEACHER REC
SCI. RM 105 TEACHING REC	15A	35	36	15A	SCI. RM 105 TEACHING REC
SCI. RM 105 GEN. REC	15A	37	38	15A	SCI. RM 105 DESK A/V. REC
(8) BAS PANEL	15A	39	40	15A	ACID NEUT. PANEL (7)
(5) EF–110 RM. 107A	15A	41	42	15A	EF–110 ACID NEUT. RM. (5)
(1) EF–106 (ROOF)	15A	43	44	15A	EF–107 (ROOF) (2)
(3) EF–108 (ROOF)	15A	45	46	15A	EF–109 (ROOF) (4)
SPARE	15A	47	48	20A	ROOF MAINT. REC. (SCIENCE EF)
SPARE	15A	49	50	20A	SPARE
SPARE	15A	51	52	20A	SPARE
SPACE		53	54		SPACE
SPACE		55	56		SPACE
SPACE		57	58		SPACE
SPACE		59	60		SPACE
SPACE		61	62		SPACE
SPACE		63	64		SPACE
SPACE		65	66		SPACE
SPACE		67	68		SPACE
SPACE		69	70		SPACE
SPACE		71	72		SPACE

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 22,000A. PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

– THIS PANEL IS TO BE COMPLETE WITH INTEGRAL SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATIONS.
– ALL AUTOMATICALLY CONTROLLED RECEPTACLES FED FROM THIS PANEL ARE TO BE PERMANENTLY MARKED & GREEN IN COLOUR.
– ALL OTHER RECEPTACLES FED FROM THIS PANEL ARE TO BE GREY IN COLOUR.

EQUIPMENT WIRING SCHEDULE

E=ELECTRICAL
M=MECHANICAL
O=OTHERS

Description		Data			Starter					Control Device						Isolating Device			Remote Items											Interlock		Remarks
Electrical Item	Description	Provided by	Voltage	Size hp/kW/Amps	Phase	Magnetic	Manual	Contactor	Combination	Variable Frequency Drive	Hand/Off/Auto	On/Off Selector Start/Stop PB.	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	Brkr/Fuse	Starter/Device Wired By	Thermostat	RA Thermostat	Interval Timer	Var.Speed Control	Motor Rated Swc c/w Pilot Light	Dual Voltage Relay	Control Panel	Wired by	Bldg Auto System	Wired by	Interlock To	Interlock By	Description
1	EXHAUST FAN EF–106	M	120	1/4	1											E	E	E						M		M/E	M	M			
2	EXHAUST FAN EF–107	M	120	1/4	1											E	E	E						M		M/E	M	M			CONNECT TO SWITCH ON FUME HOOD
3	EXHAUST FAN EF–108	M	120	1/4	1											E	E	E						M		M/E	M	M			
4	EXHAUST FAN EF–109	M	120	1/4	1											E	E	E						M		M/E	M	M			
5	EXHAUST FAN EF–110	M	120	FHP	1										E		E	E			E					E					
6	CABINET UNIT HEATER	M	120	FHP	1										E		E	E	M							M	M	M			
7	ACID NEUT. PANEL	M	120	FHP	1										E		E	E													PROVIDE LOCAL RECEPTACLE
8	BAS PANEL	M	120	FHP	1										E		E	E													PROVIDE DATA DROP

LED LIGHT FIXTURE SCHEDULE

Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	Description
A (3)	COOPER CAT. #LD6B–15–D010TR–ERM6A15–8–40–6LM0–H–H120–LGSKT6IP66 LITHONIA CAT. #LDN6–40–15–L06–AR–LS–120 OR EQUAL BY MAXILUME	120V	LED 1500 LUMENS 40K 23W	RECESSED	6" (150mm) ROUND LED CANOPY DOWNLIGHT FIXTURE C/W MEDIUM BEAM REFLECTOR, SEMI–SPECULAR FINISH, 80CRI AND IP66 RATING. NOTE: FIXTURE MUST BE WET LOCATION LISTED.
B	LITHONIA CAT. #2BTL4–60L–ADSM–EZ1–LP840 (*FIXTURE TO MATCH EXISTING – NO EQUALS*)	120V	LED 6100 LUMENS 4000K 47W	RECESSED	2'X4' (610mmX1220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W FROSTED ACRYLIC LENS.
C	LITHONIA CAT. #2BTL4–48L–ADSM–EZ1–LP840 (*FIXTURE TO MATCH EXISTING – NO EQUALS*)	120V	LED 5100 LUMENS 4000K 45W	RECESSED	2'X4' (610mmX1220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W FROSTED ACRYLIC LENS.
L (3)	COOPER CAT. #24CZ–LD5–45–UNV–L840–CD–1 LITHONIA CAT. #2BTL4–48L–ADSM–EZ1–LP840 OR EQUAL BY VISIONEERING	120V	LED 4558 LUMENS 4000K 35.7W	RECESSED	2'X4' (610mmX1220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W FROSTED ACRYLIC LENS.
L1 (3)	COOPER CAT. #14CZ–LD5–44–UNV–L840–CD–1–DF LITHONIA CAT. #1BTL4–48L–ADSM–EZ1–LP840–DGA OR EQUAL BY VISIONEERING	120V	LED 4485 LUMENS 4000K 41.1W	RECESSED	1'X4' (305mmX1220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W FROSTED ACRYLIC LENS. SUITABLE FOR DRYWALL CEILINGS.
LA	COOPER CAT. #14CZ–LD5–44–UNV–L840–CD–1 LITHONIA CAT. #1BTL4–48L–ADSM–EZ1–LP840 OR EQUAL BY VISIONEERING	120V	LED 4485 LUMENS 4000K 41.1W	RECESSED	1'X4' (305mmX1220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W FROSTED ACRYLIC LENS.
L2 (3)	COOPER CAT. #4–SNLED–LD5–44SL–LW–UNV–L840–CD–1–AYC–WG/SNF–4FT LITHONIA CAT. #ZL1N–L48–5000LM–FST–MVOLT–40K–80CRI–WH–WGZ48 VISIONEERING CAT. #LCOM–48–LED–B–40K–042L–UNV–W5	120V	LED 4589 LUMENS 4000K 38.7W	SUSPENDED	4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION. CHAIN SUSPENSION KIT AND WIRE GUARD.
L3 (3)	COOPER CAT. #22CZ–LD5–29–UNV–L840–CD–1–DF LITHONIA CAT. #2BTL2–33L–ADSM–EZ1–LP840 OR EQUAL BY VISIONEERING	120V	LED 2957 LUMENS 4000K 23.2W	RECESSED	2'X2' (305mmX1220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W FROSTED ACRYLIC LENS.
EXIT LIGHTS	BEGHELLI CAT. #QRRMLUMWOLR EMERGILITE CAT. #EAXWU LUMACELL CAT. #LAXWU STANPRO CAT. #RMXLOWHUDC AIMLITE CAT. #RPALUMWHTUNVDC READY–LITE CAT. #RA–W–U	12V/120V	LED 2.5 WATT (MAX.)AC 2 WATT (MAX.)DC	SURFACE	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING AND MAXIMUM 63mm (2.5") THICKNESS.
EMERG. LIGHTS	BEGHELLI CAT. #SR–1QLED & SR–2QLED LUMACELL CAT. #MQM1LD7 & MQM2LD7 EMERGILITE CAT. #EF10LG & EF10DLG STANPRO CAT. #N112V4WLJ & N213V4WLJ AIMLITE CAT. #RMSM1124WLJWHT & RMSM2124WLJWHT READY–LITE CAT. #R–M–1–LD7 & R–M–2–LD7	12V	LED 4W MR16	SURFACE	LED FIXTURE C/W COMPACT DESIGN WITH VARIABLE LIGHT PATTERN, WHITE COLOUR AND 360° ROTATION.
COMBO UNIT	BEGHELLI CAT. EM–1 #QR1236L1MBTMR2SWRMOLR EM–2 #QR1272L1MBTMR2SWRMOLR EMERGILITE CAT. EM–1 #EACXW12502LG EM–2 #EACXW12802LG LUMACELL CAT. EM–1#LAC1W12502LD7 EM–2 #LAC1W12802LD7 STANPRO CAT. EM–1#PRML123602S4LR EM–2#PRML127202S4LR AIMLITE CAT. EM–1#CARP1236UU2MDWHT EM–2#CARP1272UU2MDWHT READY–LITE CAT. EM–1#RAC1W12502LD7 EM–2#RAC1W12802LD7	12V/120V	LED 4W MR16	SURFACE	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 63mm (2.5") THICKNESS AND 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER. INTEGRAL 12V LED HEADS TO HAVE COMPACT DESIGN WITH VARIABLE LIGHT PATTERN, WHITE COLOUR, AND 360° ROTATION. UNIT SHALL OPERATE ON 12V. WHERE NOTED UNIT SHALL BE C/W WIREGUARD.
EMERG. BATT.	BEGHELLI NV12 SERIES: EM–3 #NV12–36/2SR EM–4 #NV12–100/2SR EM–5 #NV12–200/2SR EM–6 #NV12–360/2SR EMERGILITE CAT. #12LSE SERIES LUMACELL CAT. #RGS SERIES STANPRO CAT. #SLA–12 SERIES AIMLITE CAT. #EBST12 SERIES READY–LITE CAT. #LD12X SERIES	12V/120V	N/A	SURFACE	LONG LIFE, SEALED BATTERY, C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS.

NOTES:
(1) FOR INFORMATION REGARDING LENS INFORMATION REFER TO SPECIFICATION.
(2) LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
(3) EQUAL MANUFACTURERS ARE MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.
(4) WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S OPTIONAL COLOUR CHART (i.e. RAL COLOURS OR EQUAL). PROVIDE THIS COLOUR CHART WITH SHOP DRAWING SUBMITTAL.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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Project Number: 18296

DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING: DETAILS & SCHEDULES

LICENSED PROFESSIONAL ENGINEER T.G.G. MOHAMED 100507819 Feb 15,19 PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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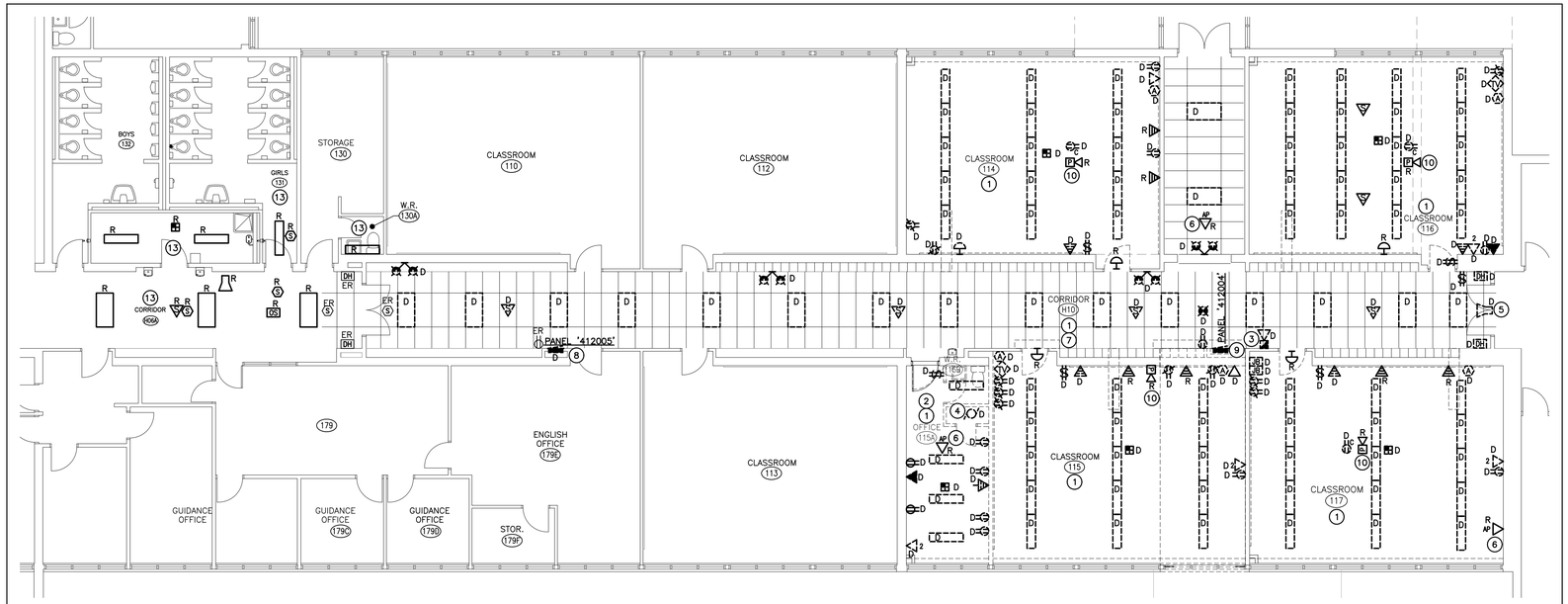
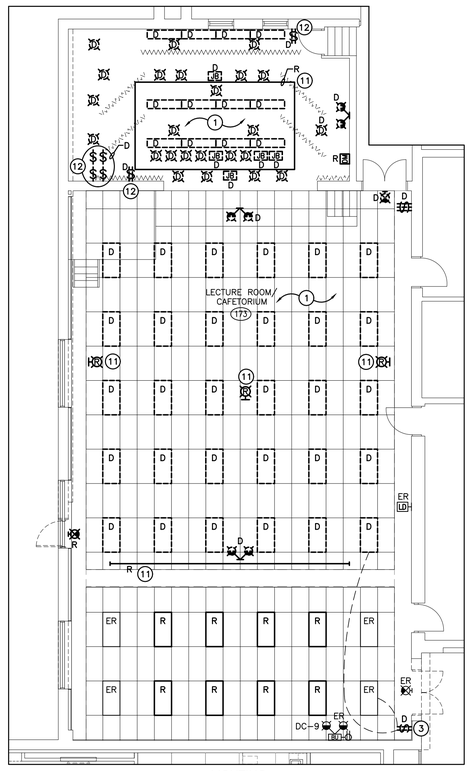
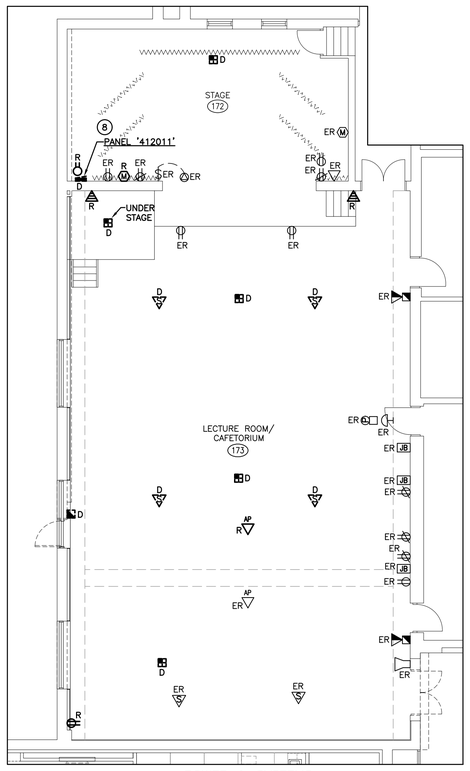


FIRST FLOOR PART PLAN – DEMOLITION
SCALE: 1:100



LIGHTING



POWER & SYSTEMS

FIRST FLOOR PART PLAN – DEMOLITION
SCALE: 1:100

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.
- ALL REDUNDANT WIRING (FROM REDUNDANT OUTLET BOXES AND CEILING SPACES) AND EXPOSED CONDUIT/RACEWAY IS TO BE DISCONNECTED AND REMOVED.
- ALL REDUNDANT OUTLET BOXES (IF VISIBLE AFTER THE RENOVATION WORK) ARE TO BE PROVIDED WITH BLANK STAINLESS STEEL COVER PLATES.

SPECIFIC DEMOLITION NOTES

1 EXISTING LIGHTING CIRCUITS ARE TO BE REMOVED BACK TO LOCAL LIGHTING JUNCTION BOX WITHIN THIS AREA. MAINTAIN THIS LIGHTING JUNCTION BOX FOR RE-WIRE AS NOTED ON THE RENOVATION DRAWINGS.

2 IN THIS AREA ALL EXISTING SURFACE RACEWAY AND CONDUIT CONNECTED TO DEVICES ASSOCIATED WITH THE DEMOLITION WORKS IS TO BE DISCONNECTED AND REMOVED.

3 DISCONNECT AND REMOVE INDICATED DEVICE AND PROVIDE DECORATIVE BLANK COVERPLATE FOR EXISTING BACKBOX.

4 INDICATES MECHANICAL ITEM REMOVED/REPLACED BY MECHANICAL CONTRACTOR. THIS CONTRACTOR IS TO DISCONNECT AND REMOVE FEEDER BACK TO SOURCE. DISCONNECT AND REMOVE ALL CONTROL DEVICES. LABEL SOURCE BREAKER AS SPARE. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

5 INDICATED DEVICE/FIXTURE IS TO BE DISCONNECTED AND REMOVED. MAINTAIN WIRING AND CONNECT TO NEW DEVICE AS PER RENOVATION DRAWINGS. CO-ORDINATE WITH THE SELECTED SECURITY SUB-CONTRACTOR.

6 INDICATED DEVICE/FIXTURE IS TO BE DISCONNECTED AND RELOCATED TO SUIT THE RENOVATION. MAINTAIN DEVICE & WIRING FOR RE-CONNECTION AS PER RENOVATION DRAWINGS. CO-ORDINATE WITH THE SELECTED VOICE/DATA SUB-CONTRACTOR.

7 WITHIN THIS AREA THE CONTRACTOR IS TO BUNDLE LOOSE AUXILIARY CABLES USING TIEWRAPS AND SECURE TO EXISTING STRUCTURE.

8 INDICATES PANEL(S) TO BE REPLACED WITH NEW PANEL. DISCONNECT FEEDER AND BRANCH CIRCUITS BUT MAINTAIN FOR RE-CONNECTION TO NEW PANEL AS NOTED ON THE RENOVATION DRAWINGS.

9 INDICATES PANEL(S) TO BE REPLACED WITH NEW PANEL AND RELOCATED TO SUIT RENOVATIONS, DISCONNECT FEEDER AND BRANCH CIRCUITS AND PROVIDE JUNCTION BOX IN CEILING SPACE TO MAINTAIN CABLES FOR EXTENTION/RE-CONNECTION TO NEW PANEL IN NEW LOCATION AS NOTED ON THE RENOVATION DRAWINGS. IF PANEL IS FED FROM BELOW GROUND REMOVE ASSOCIATED FEEDER COMPLETE (REFER TO RENOVATIONS DRAWINGS FOR MORE INFORMATION ON NEW PANEL/FEED).

10 INDICATED PROJECTOR, WALL SPEAKERS AND ASSOCIATED SOURCE DEVICES TO BE DISCONNECTED, REMOVED AND SALVAGED FOR RE-USE BY THE BOARDS IT OR AV DEPARTMENT. THIS CONTRACTOR IS TO CO-ORDINATE REMOVAL.

11 INDICATED THEATRICAL LIGHTING IS TO BE DISCONNECTED AND REMOVED TO SUIT NEW CEILING. MAINTAIN ALL WIRING FOR RECONNECTION DURING THE RENOVATION PHASE.

12 THIS CONTRACTOR IS TO DETERMINE IF ANY OF THE SWITCHES IN THIS AREA ARE REDUNDANT AFTER DEMOLITION HAS BEEN COMPLETED AND PRIOR TO REMOVAL OF SWITCH. PROVIDE IN TENDER ALL COSTS ASSOCIATED WITH REMOVAL OF SWITCHES.

13 CONTRACTOR TO REVIEW MECHANICAL DRAWINGS AND REMOVE AND RE-INSTALL LIGHTING AND ANY OTHER CEILING DEVICES TO SUIT DEMOLITION OF EXISTING AND INSTALLATION OF NEW MECHANICAL SERVICES.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL FIRST FLOOR DEMOLITION PLANS

LICENSED PROFESSIONAL ENGINEER T.G.G. MOHAMED 100507819 Feb 25, 19 PROVINCE OF ONTARIO

TRUE NORTH	DWG. NORTH

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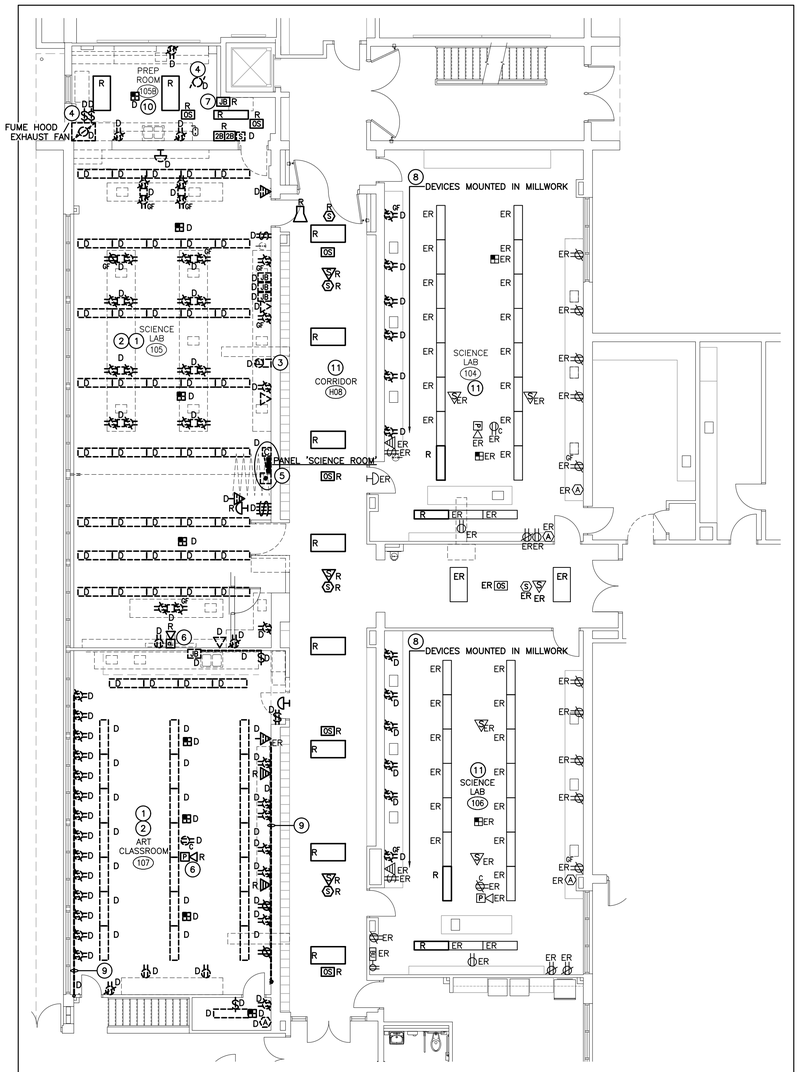
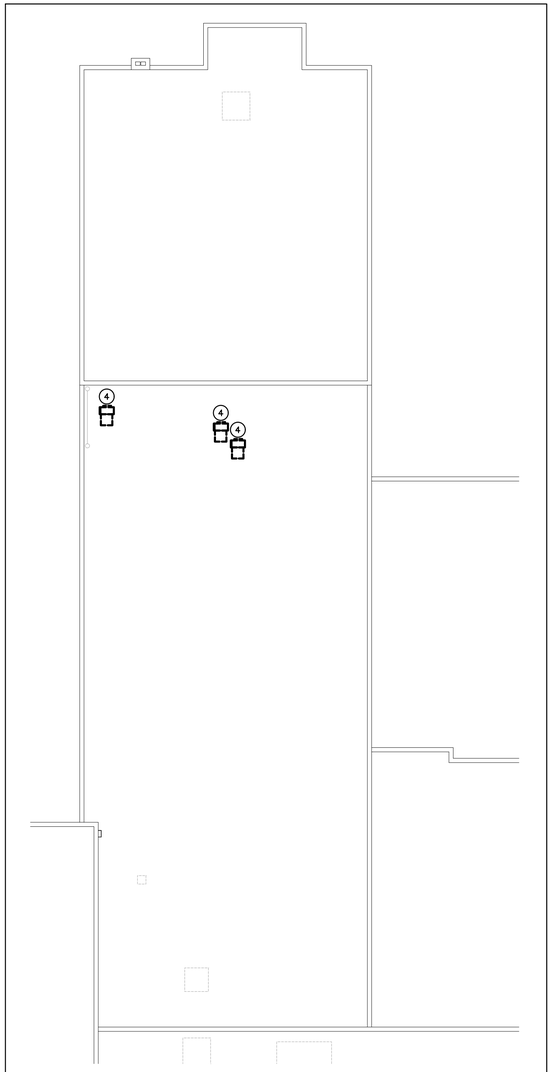


FIRST FLOOR PART PLAN – DEMOLITION

SCALE: 1:100



ROOF PART PLAN – DEMOLITION

SCALE: 1:200

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.
- ALL REDUNDANT WIRING (FROM REDUNDANT OUTLET BOXES AND CEILING SPACES) AND EXPOSED CONDUIT/RACEWAY IS TO BE DISCONNECTED AND REMOVED.
- ALL REDUNDANT OUTLET BOXES (IF VISIBLE AFTER THE RENOVATION WORK) ARE TO BE PROVIDED WITH BLANK STAINLESS STEEL COVER PLATES.

SPECIFIC DEMOLITION NOTES

1 EXISTING LIGHTING CIRCUITS ARE TO BE REMOVED BACK TO LOCAL LIGHTING JUNCTION BOX WITHIN THIS AREA. MAINTAIN THIS LIGHTING JUNCTION BOX FOR RE-WIRE AS NOTED ON THE RENOVATION DRAWINGS.

2 IN THIS AREA ALL EXISTING SURFACE RACEWAY AND CONDUIT CONNECTED TO DEVICES ASSOCIATED WITH THE DEMOLITION WORKS IS TO BE DISCONNECTED AND REMOVED.

3 DISCONNECT AND REMOVE INDICATED DEVICE AND PROVIDE DECORATIVE BLANK COVERPLATE FOR EXISTING BACKBOX.

4 INDICATES MECHANICAL ITEM REMOVED/REPLACED BY MECHANICAL CONTRACTOR. THIS CONTRACTOR IS TO DISCONNECT AND REMOVE FEEDER BACK TO SOURCE. DISCONNECT AND REMOVE ALL CONTROL DEVICES. LABEL SOURCE BREAKER AS SPARE. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

5 INDICATES:
- PANEL TO BE REMOVED, DISCONNECT FEEDER BACK TO SOURCE AND LABEL SOURCE BREAKER AS SPARE. MAINTAIN BRANCH CIRCUITS, PROVIDE TERMINAL STRIPS AND CONNECTORS TO SUIT ACTIVE CIRCUITS WITHIN TUB FOR RE-CONNECTION TO NEW PANEL AS NOTED ON THE RENOVATION DRAWINGS. PROVIDE CUSTOM COVER PLATE TO SUIT EXISTING TUB.
- CONTACTOR AND ASSOCIATED LINE/LOAD WIRING AND PUSH BUTTON CONTROL DEVICES TO BE REMOVED COMPLETE, THIS CONTRACTOR IS TO CO-ORDINATE WITH GENERAL TRADES AND INCLUDE IN TENDER FOR WALL CUTTING, PATCHING AND PAINTING TO SUIT REMOVAL OF CONTACTOR.

6 INDICATED PROJECTOR, WALL SPEAKERS AND ASSOCIATED SOURCE DEVICES TO BE DISCONNECTED, REMOVED AND SALVAGED FOR RE-USE BY THE BOARDS IT OR AV DEPARTMENT. THIS CONTRACTOR IS TO CO-ORDINATE REMOVAL.

7 INDICATED JUNCTION BOX TO BE REMOVED COMPLETE OR IF NOT REDUNDANT, RELOCATED TO ABOVE CEILING SPACE.

8 INDICATED DEVICE/FIXTURE IS TO BE DISCONNECTED AND REMOVED. MAINTAIN WIRING AND CONNECT TO NEW DEVICE AS PER RENOVATION DRAWINGS.

9 INDICATED RACEWAY AND ASSOCIATED DEVICES ARE TO BE DISCONNECTED AND REMOVED COMPLETE.

10 RELOCATE CEILING DEVICES TO SUIT NEW CEILING INSTALLATION.

11 CONTRACTOR TO REVIEW MECHANICAL DRAWINGS AND REMOVE AND RE-INSTALL LIGHTING AND ANY OTHER CEILING DEVICES TO SUIT DEMOLITION OF EXISTING AND INSTALLATION OF NEW MECHANICAL SERVICES.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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NORWOOD DISTRICT HIGH SCHOOL
RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
PARTIAL FIRST FLOOR DEMOLITION PLANS

LICENSED PROFESSIONAL ENGINEER
T.G.G. MOHAMED
100507819
PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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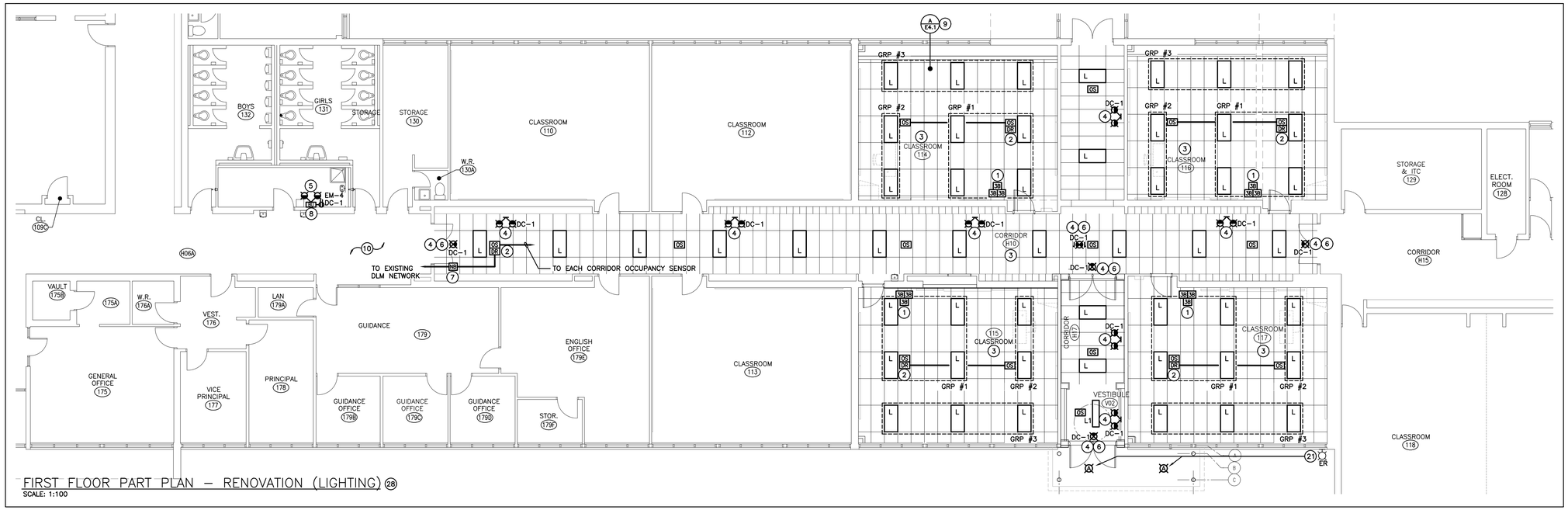
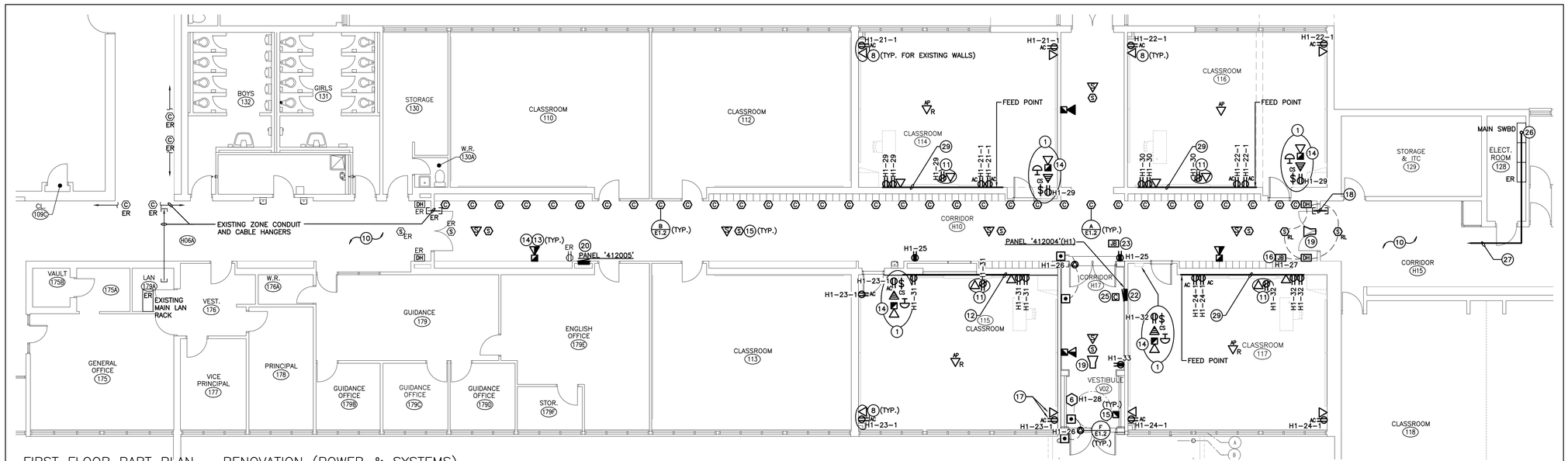


FIRST FLOOR PART PLAN – RENOVATION (LIGHTING) (28)

SCALE: 1:100



FIRST FLOOR PART PLAN – RENOVATION (POWER & SYSTEMS)

SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

1 INDICATED DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL. REFER TO ARCHITECTURAL DRAWING FOR INFORMATION AND DETAILS.

2 INDICATES ROOM CONTROLLER(S) INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSOR(S).

3 CONNECT FIXTURES IN THIS ROOM/AREA TO EXISTING LOCAL LIGHTING CIRCUIT THROUGH NEW CONTROL DEVICES. RUN NEW WIRING FROM LOCAL "SOURCE" JUNCTION BOX(ES) TO POWER PACK(S) AND FIXTURES AS NOTED.

4 INDICATED DEVICE IS TO BE CEILING MOUNTED. PROVIDE ADEQUATE SUPPORT.

5 CONNECT INDICATED DEVICE TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT IN CORRIDOR.

6 CONNECT INDICATED DEVICE TO BATTERY UNIT AS NOTED & LINE SIDE OF LOCAL LIGHTING CIRCUIT.

7 INDICATES NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE, REFER TO LIGHTING CONTROL DRAWING FOR MORE INFORMATION.

8 FISH WALL TO FEED INDICATED DEVICE AND CUT DEVICE BOX INTO WALL. IF WALL CANNOT BE FISHED, FEED INDICATED DEVICE USING SURFACE METAL RACEWAY EQUAL TO WIREMOLD SERIES 500.

9 INDICATES THE TYPICAL CLASSROOM SWITCHING ARRANGEMENT. REFER TO LIGHTING CONTROL DIAGRAMS TO CONFIRM WIRING REQUIREMENTS.

10 INDICATES AREA WITH NEW FEED(S) RUNNING WITHIN CEILING SPACE, CO-ORDINATE INSTALLATION WITH OTHER SERVICES WITHIN CEILING SPACE. THIS CONTRACTOR IS RESPONSIBLE TO REMOVE AND RE-INSTALL CEILING TILE TO SUIT REQUIRED INSTALLATION. ANY DAMAGED OR FINGERPRINTED TILE MUST BE REPLACED.

11 INDICATED RECEPTACLE/DATA OUTLET IS FOR SMARTBOARD. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

12 FEED LOW DEVICES ON THIS WALL BY RUNNING TWO COMPARTMENT RACEWAY OUT SIDE OF CONTROL PANEL, REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

13 FISH WALL TO FEED INDICATED DEVICE. IF WALL CANNOT BE FISHED, FEED INDICATED DEVICE USING SURFACE METAL RACEWAY EQUAL TO WIREMOLD SERIES 500. IF THIS DEVICE IS FED SURFACE, PROVIDE SURFACE BACKBOX FOR DEVICE FROM FIRE ALARM MANUFACTURER (APPLIES TO FIRE ALARM DEVICES ONLY).

14 INDICATED DEVICE TO BE CONNECTED TO NEW SIGNAL CIRCUIT, REFER TO FIRE ALARM RISER. ALL WIRING MUST BE SUPERVISED.

15 CONNECT INDICATED DEVICE TO NEW LOCAL INITIATING ADDRESSABLE LOOP CIRCUIT. ALL WIRING MUST BE SUPERVISED.

16 WITHIN CEILING SPACE PROVIDE STEPDOWN TRANSFORMER (120–24V). REFER TO WIRING SCHEMATIC DETAIL D/1.2 AND RUN NOTED CIRCUIT THROUGH TRANSFORMER. THEN RUN 24V CIRCUIT THROUGH AUXILIARY CONTACTS IN FIRE ALARM CONTROL PANEL THEN ONTO RELAY BASE OF SMOKE DETECTOR THEN TO DOOR HOLD OPEN DEVICES.

17 FEED INDICATED DEVICE FROM BEHIND AND CUT DEVICE BOX INTO WALL.

18 INDICATES 2–50mmC C/W BUSHINGS ON EACH END RUNNING THROUGH WALL BETWEEN CABLE HANGERS.

19 CONNECT INDICATED DEVICE TO EXISTING WIRING. CO–ORDINATE WITH THE SELECTED SECURITY SUB–CONTRACTOR.

20 INDICATES NEW PANEL AS STATED IN THIS NOTE.
PANEL AND BREAKER SIZES/RATINGS TO BE CONFIRMED ON SITE BUT FOR PRICING PURPOSES PANEL SHALL BE AS FOLLOWS;
NEW PANEL (SINGLE TUB)
120/208V 1P 3W
100A MAINS
RECESSED MOUNTING
FULL NEUTRAL
30 CIRCUIT MINIMUM C/W – 8 15A–1P 22KA BREAKERS.
12 20A–1P 22KA BREAKERS.

NOTE: THIS CONTRACTOR IS TO CO–ORDINATE WITH GENERAL TRADES AND INCLUDE IN TENDER FOR WALL CUTTING, PATCHING AND PAINTING TO SUIT NEW PANEL.

21 EXTEND LOCAL EXTERIOR LIGHTING CIRCUIT AND CONNECT NEW CANOPY FIXTURES TO EXISTING CIRCUIT AND CONTROL.

22 INDICATES NEW PANEL, REFER TO PANEL SCHEDULE.

NOTE: THIS CONTRACTOR IS TO CO–ORDINATE WITH GENERAL TRADES AND INCLUDE IN TENDER FOR WALL CUTTING, PATCHING AND PAINTING TO SUIT NEW PANEL.

23 INDICATES JUNCTION BOXES (AS REQUIRED FOR EXISTING FEEDER/CIRCUIT WIRING FOR PANEL 'H1') WITHIN THE CEILING SPACE, EXTEND WIRING TO SUIT NEW PANEL LOCATION AS INDICATED AND RECONNECT.

25 INDICATES 20A–5P CONTACTOR IN CEILING SPACE CONTROLLING 50% OF RECEPTACLES IN CLASSROOMS. CONTACTOR IS TO BE C/W 24V INTEGRAL TRANSFORMER CONTROL. (CIRCUITS H1–21/22/23/24).

26 AT AVAILABLE SPARE WITHIN EXISTING SWITCHBOARD (FPL 120/208V/3P/4W 1200A) PROVIDE: (REQUIRED IF EXISTING PANEL IS FED FROM BELOW)
- 100A–3P BREAKER (kA RATING TO SUIT EXISTING BUT FOR PRICING PURPOSES USE 35kA).
- ALL NECESSARY MOUNTING HARDWARE AND FILLER PLATES.
- FEED TO PANEL 'HA' 5#1 T90 CU IN 53mm CONDUIT.

UPDATE DIRECTORY (LAMICOID LABELS) TO SUIT.

27 INDICATES NEW PANEL H1 FEED (REQUIRED IF EXISTING PANEL IS FED FROM BELOW) RUNNING WITHIN CORRIDOR CEILING SPACE, CO–ORDINATE INSTALLATION WITH OTHER SERVICES WITHIN CEILING SPACE.

28 CO–ORDINATE RECESSED LIGHTING INSTALLATION IN FIRE RATED CEILING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DETAIL FOR ADDITIONAL INFORMATION.

29 INDICATES TWO COMPARTMENT SURFACE MOUNTED NON–METALLIC RACEWAY MOUNTED AT LOW LEVEL. CONFIRM ON SITE. AT FEED POINT PROVIDE FLAT ELBOW AND RISE TO CEILING SPACE, IN CEILING SPACE PROVIDE SERVICE ENTRANCE FITTING C/W 2–27mmC TO CABLE MANAGEMENT SYSTEM IN CORRIDOR AND 19mmC TO BRANCH CIRCUIT PANEL AS NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

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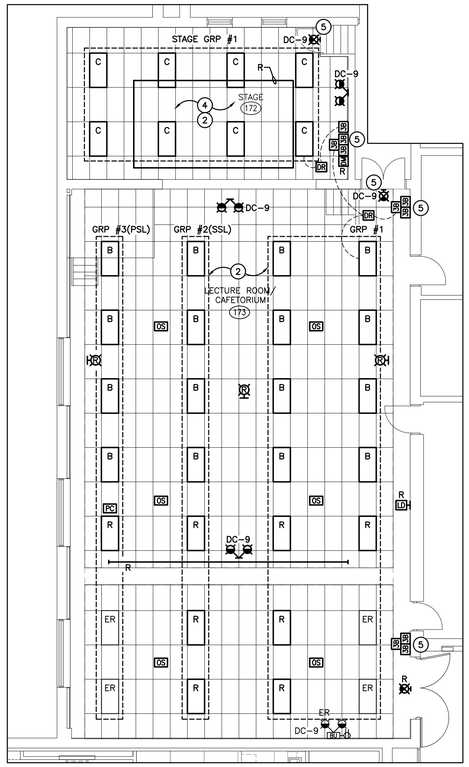

FIRST FLOOR PART PLAN – RENOVATION (11)
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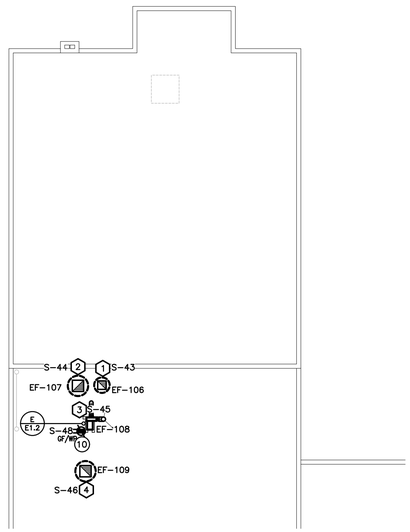
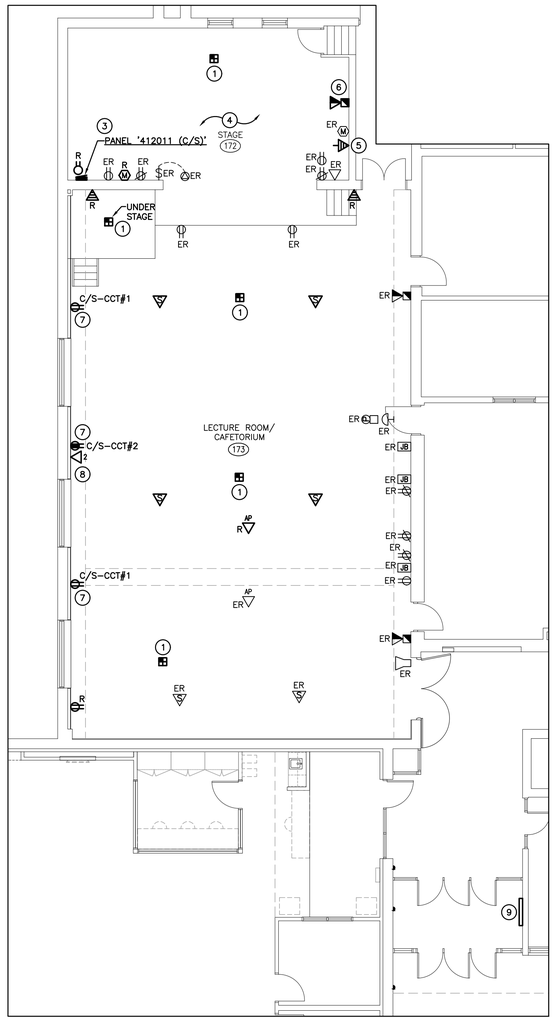


ROOF PART PLAN – RENOVATION
SCALE: 1:200



FIRST FLOOR PART PLAN – RENOVATION (POWER & SYSTEMS)
SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

1 CONNECT INDICATED DEVICE TO EXISTING LOCAL INITIATING ADDRESSABLE LOOP CIRCUIT. ALL WIRING MUST BE SUPERVISED.

2 CONNECT FIXTURES IN THIS ROOM/AREA TO EXISTING LOCAL LIGHTING CIRCUIT THROUGH NEW CONTROL DEVICES. RUN NEW WIRING FROM LOCAL "SOURCE" JUNCTION BOX(ES) TO POWER PACK(S) AND FIXTURES AS NOTED.

3 INDICATES NEW PANEL AS STATED IN THIS NOTE.
PANEL AND BREAKER SIZES/RATINGS TO BE CONFIRMED ON SITE BUT FOR PRICING PURPOSES PANEL SHALL BE AS FOLLOWS;
NEW PANEL (SINGLE TUB)
120/240V 1P 3W
125A MAINS
SURFACE MOUNTING
FULL NEUTRAL
30 CIRCUIT MINIMUM C/W – 17 15A–1P 22KA BREAKERS
2 20A–1P 22KA BREAKERS (RED)
1 40A–2P 22KA BREAKER

WITHIN PANEL PROVIDE NEW BREAKERS AS FOLLOWS:

CCT#	DESCRIPTION	FEED	BREAKER
CCT #1	CAFETORIUM GENERAL REC.	2#12 T90 CU IN 21mmC	15A–1P
CCT #2	CAFETORIUM T–SLOT REC.	2#12 T90 CU IN 21mmC	20A–1P

NOTE: THIS CONTRACTOR IS TO CO–ORDINATE WITH GENERAL TRADES AND INCLUDE IN TENDER FOR WALL CUTTING, PATCHING AND PAINTING TO SUIT NEW PANEL.

4 ALL EXPOSED CONDUIT AND RACEWAYS IN THE STAGE AREA ARE TO BE PAINTED WITH 2 COATS OF BLACK PAINT (TO MATCH EXISTING WALL).

5 FEED INDICATED DEVICE USING SURFACE METAL RACEWAY EQUAL TO WIREMOLD SERIES 500.

6 INDICATED DEVICE TO BE CONNECTED TO EXISTING SIGNAL CIRCUIT, REFER TO FIRE ALARM RISER. ALL WIRING MUST BE SUPERVISED.

7 FEED INDICATED DEVICE IN NEW WALL FURRING AND MOUNT HORIZONTALLY UNDER MECHANICAL RADIATION.

8 FEED INDICATED DEVICE IN NEW WALL FURRING AND MOUNT HORIZONTALLY UNDER MECHANICAL RADIATION. DATA TO BE RUN FROM DATA RACK LOCATED IN LAN '179A'. FOR PRICING PURPOSES RUN DISTANCE IS APPROXIMATELY 46m (150').

9 EXISTING FIRE ALARM PASSIVE GRAPHIC TO BE UPDATED TO SUIT RENOVATION/NEW ENTRANCE.

10 PROVIDE T–SLOT GROUND FAULT RECEPTACLE ON ROOF ADJACENT TO MECHANICAL UNIT COMPLETE WITH "HEAVY DUTY IN–USE" WEATHER–PROOF COVER. COORDINATE PLACEMENT WITH M,ECHANICAL CONTRACTOR. INDICATED DEVICE IS TO BE MOUNTED ±36" ABOVE FINISHED ROOF LEVEL ON FAN FRAMING/HOUSING.

11 CO–ORDINATE RECESSED LIGHTING INSTALLATION IN FIRE RATED CEILING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DETAIL FOR ADDITIONAL INFORMATION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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NORWOOD DISTRICT HIGH SCHOOL
RENOVATIONS 2019
44 ELM STREET NORWOOD,ONTARIO
KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING
PARTIAL FIRST FLOOR
RENOVATION PLANS

LICENSED PROFESSIONAL ENGINEER
T.G.G. MOHAMED
100507819
FEB 15, 19
PROVINCE OF ONTARIO

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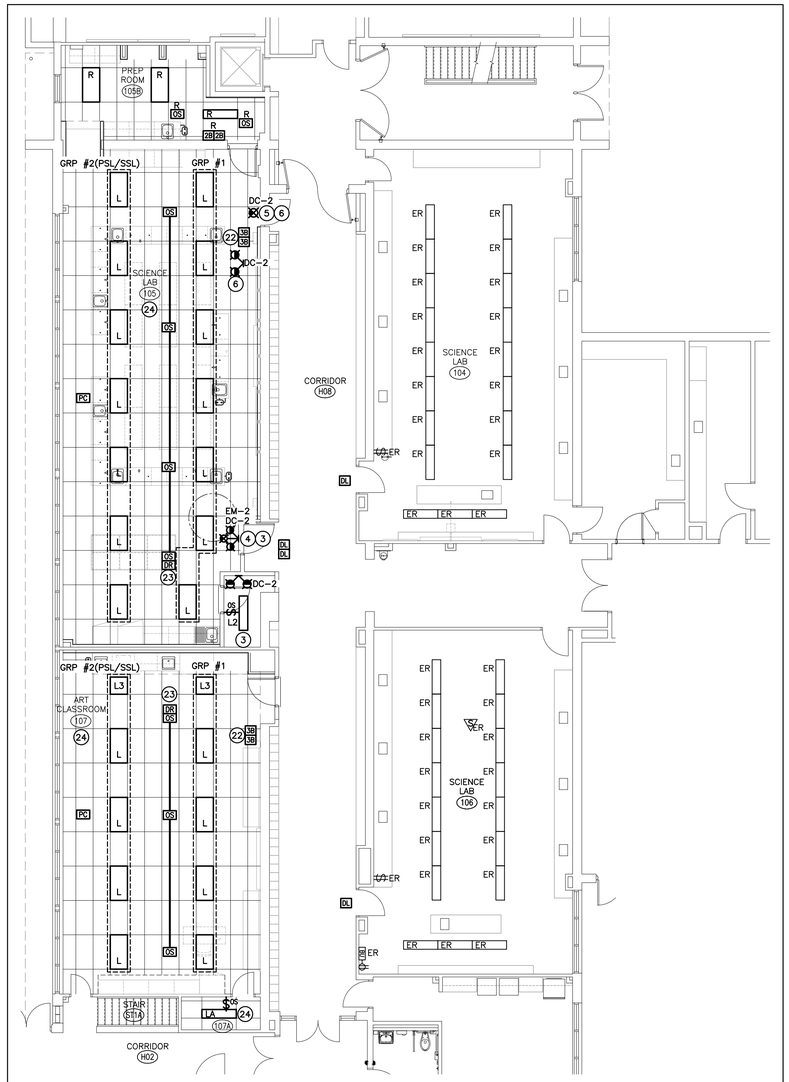
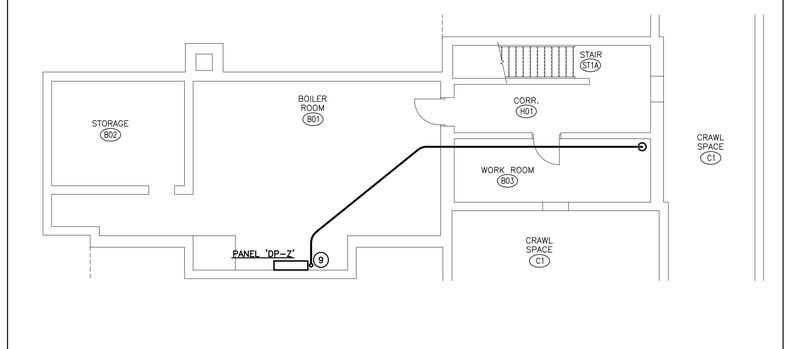


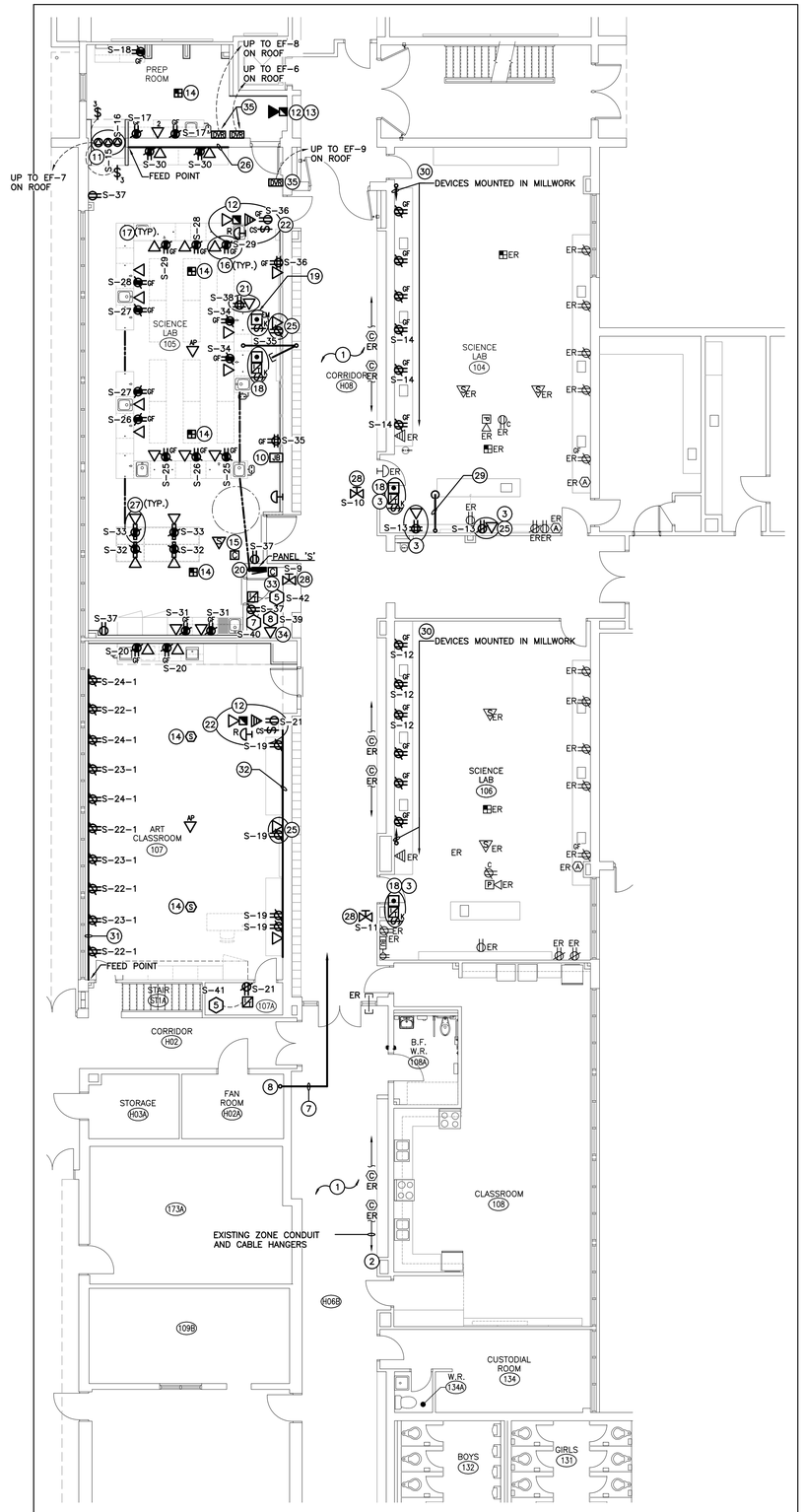
FIRST FLOOR PART PLAN – RENOVATION (LIGHTING) (36)

SCALE: 1:100



BASEMENT FLOOR PART PLAN – RENOVATION

SCALE: 1:100



FIRST FLOOR PART PLAN – RENOVATION (POWER & SYSTEMS)

SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

1 INDICATES AREA WITH NEW FEED(S) RUNNING WITHIN CEILING SPACE, CO-ORDINATE INSTALLATION WITH OTHER SERVICES WITHIN CEILING SPACE. THIS CONTRACTOR IS RESPONSIBLE TO REMOVE AND RE-INSTALL CEILING TILE TO SUIT REQUIRED INSTALLATION. ANY DAMAGED OR FINGERPRINTED TILE MUST BE REPLACED.

2 ALL DATA CABLES ARE TO BE RUN BACK TO MAIN LAN RACK (SEE DRAWING E3.1 FOR CONTINUATION)

3 FISH WALL TO FEED INDICATED DEVICE AND CUT DEVICE BOX INTO WALL. IF WALL CANNOT BE FISHED, FEED INDICATED DEVICE USING SURFACE METAL RACEWAY EQUAL TO WIREMOLD SERIES 500.

4 CONNECT INDICATED DEVICE TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT.

5 CONNECT INDICATED DEVICE TO BATTERY UNIT AS NOTED & LINE SIDE OF LOCAL LIGHTING CIRCUIT.

6 INDICATED DEVICE IS TO BE CEILING MOUNTED. PROVIDE ADEQUATE SUPPORT.

7 INDICATES NEW PANEL 'S' FEED RUNNING WITHIN CEILING SPACE, CO-ORDINATE INSTALLATION WITH OTHER SERVICES WITHIN CEILING SPACE. REFER TO BASEMENT PART PLAN FOR CONTINUATION.

8 PANEL 'S' FEED (IN CONDUIT) RUNNING BETWEEN FLOORS MAY RUN ALONG THIS ROUTE THEN INTO FAN ROOM AND DOWN TO FLOOR BELOW. REFER TO BASEMENT PART PLAN FOR CONTINUATION. FIRE STOP ALL FLOOR PENETRATIONS.

9 EXISTING DISTRIBUTION PANEL IS EATON (PRL3A) 400 AMPS 120/208V 3P 4W. PROVIDE NEW BREAKER FOR:
PANEL 'S' = 100A-3P BREAKER, FEED TO BE 5#1 T90 CU IN 53mmC.
PROVIDE ALL NECESSARY MOUNTING HARDWARE AND FILLER PLATES TO SUIT NEW BREAKERS. REFER TO POWER RENOVATION DRAWINGS FOR FEED ROUTE UP TO PANEL 'S' AND ENSURE ALL FLOOR PENETRATIONS ARE SEALED TO MAINTAIN FIRE RATINGS AND SEPARATIONS.

10 INDICATES JUNCTION BOX WITHIN EXISTING PANEL TUB (REFER TO DEMOLITION DRAWINGS FOR MORE INFORMATION) FOR EXISTING CIRCUIT WIRING. ALL IN TENDER TO EXTEND/RECONNECT EXISTING CIRCUITS TO NEW PANEL 'S' (REFER TO PANEL SCHEDULE).

11 INDICATES FUME HOOD. THIS CONTRACTOR IS TO CONNECT INDICATED CIRCUITS TO POWER/LIGHTING DEVICES AND FAN/CONTROL. CONFIRM EXACT REQUIREMENTS FROM SHOP DRAWINGS.

12 INDICATED DEVICE TO BE CONNECTED TO EXISTING SIGNAL CIRCUIT, REFER TO FIRE ALARM RISER. ALL WIRING MUST BE SUPERVISED.

13 FISH WALL TO FEED INDICATED DEVICE. IF WALL CANNOT BE FISHED, FEED INDICATED DEVICE USING SURFACE METAL RACEWAY EQUAL TO WIREMOLD SERIES 500. IF THIS DEVICE IS FED SURFACE, PROVIDE SURFACE BACKBOX FOR DEVICE FROM FIRE ALARM MANUFACTURER (APPLIES TO FIRE ALARM DEVICES ONLY).

14 CONNECT INDICATED DEVICE TO EXISTING LOCAL INITIATING ADDRESSABLE LOOP CIRCUIT. ALL WIRING MUST BE SUPERVISED.

15 REFER TO DETAIL G/E1.2 FOR EMERGENCY CONTROL FOR SCIENCE PANEL. CONTACTOR TO CONTROL CIRCUITS FOR DESK RECEPTACLES (CCT S-25/26/27/28/29/30/31/32/33/34), MOUNT CONTACTOR WITHIN CEILING SPACE.

16 INSTALL DEVICES HORIZONTALLY IN THE BACK FACE OF MILLWORK.

17 DEVICES WITHIN THE MILLWORK ARE TO BE FED FROM BELOW VIA PVC PIPE SLEEVES FROM SCIENCE ROOM UTILITY CLOSET. CO-ORDINATE WITH SERVICES BELOW AND MECHANICAL INSTALLATIONS.

18 INDICATES GAS CONTROL DEVICES. REFER TO DETAIL H/E1.2. INSTALL INDICATED DEVICES HORIZONTALLY IN FRONT APRON OF TEACHERS DESK.

19 INDICATES DEVICES CONTROLLING CONTACTORS FOR DESK RECEPTACLES. INSTALL INDICATED DEVICES HORIZONTALLY IN FRONT APRON OF TEACHERS DESK (OR AS INDICATED).

20 INDICATES CLOSET TO FEED ELECTRICAL AND MECHANICAL DEVICES FROM CEILING SPACE INTO FLOOR, REFER TO DETAIL A/E1.3. CO-ORDINATE WITH SERVICES BELOW AND MECHANICAL INSTALLATIONS WITHIN CLOSET, REFER TO PLAN FOR U/G SERVICE ROUTES.

21 INDICATED DEVICES ARE FOR "OWNER TECHNOLOGY CENTER". CO-ORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH INSTALLER (SCHOOL BOARD REPRESENTATIVE TO PROVIDE CONTACT DETAILS). FOR PRICING PURPOSE ASSUME THAT THE NOTED DEVICES ARE TO BE INSTALLED WITHIN THE MILLWORK AND FED FROM BELOW. FROM THE INSIDE OF THE TECHNOLOGY CENTER PROVIDE 50mm CONDUIT U/G TO CORRIDOR WALL CHASE, RISE CONDUIT (IN CHASE) FROM FLOOR UP TO AND OUT TO SCIENCE ROOM CEILING SPACE AS INDICATED.

22 INDICATED DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL. REFER TO ARCHITECTURAL DRAWING FOR INFORMATION AND DETAILS.

23 INDICATES ROOM CONTROLLER(S) INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSOR(S).

24 CONNECT FIXTURES IN THIS ROOM/AREA TO EXISTING LOCAL LIGHTING CIRCUIT THROUGH NEW CONTROL DEVICES. RUN NEW WIRING FROM LOCAL "SOURCE" JUNCTION BOX(ES) TO POWER PACK(S) AND FIXTURES AS NOTED.

25 INDICATED RECEPTACLE/DATA OUTLET IS FOR SMARTBOARD. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

26 TO FEED INDICATED DEVICES RUN TWO COMPARTMENT SURFACE MOUNTED NON-METALLIC RACEWAY BETWEEN WORKSTATION AND UPPER CUPBOARDS. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. AT FEED POINT PROVIDE 2-25mmC TO LOCAL CABLE MANAGEMENT HANGERS AND 19mmC TO BRANCH CIRCUIT PANEL AS NOTED.

27 DESKTOPS RECEPTACLES/DATA OUTLETS ARE TO BE INSTALLED IN A TWO GANG SURFACE MOUNT BOX EQUAL TO HUBBELL CAT. #HBLCON2, CO-ORDINATE WITH MILLWORK SHOP DRAWINGS AND FEED FROM BELOW.

28 INDICATES GAS SOLENOID VALVE(S) WITHIN CEILING SPACE (REFER TO MECHANICAL DRAWINGS FOR FINAL LOCATION) FOR SCIENCE ROOM(S), FEED AND CONNECT AS PER DETAIL.

29 INDICATES 1-50mm CONDUIT RUN UNDER GROUND (CO-ORDINATE FLOOR CUTTING AND PATCHING WITH GENERAL TRADES) FROM BLOCK WALL TO BESIDE TEACHERS MILLWORK DESK FOR FUTURE SMARTBOARD CONNECTIONS BY SCHOOL BOARDS A/V CONTRACTOR. CO-ORDINATE FINAL LOCATION AND CONDUIT STUB HEIGHT ON SITE WITH SCHOOL BOARD REPRESENTATIVE.

30 INDICATED DEVICES ARE TO BE MOUNTED IN EXISTING ROUGH-IN WITHIN MILLWORK BACK-SPLASH, PROVIDE NEW CIRCUIT FROM NEW PANEL 'S' AS NOTED FOR 50% OF THE RECEPTACLES (EXISTING CIRCUIT IS OVERLOADED) THE REMAIN RECEPTACLES ARE TO BE RE-CONNECTED TO THE EXISTING WIRING MADE AVAILABLE DURING THE DEMOLITION. FEED METHOD FOR NEW WIRING SHALL BE SURFACE RACEWAY (EQUAL TO WIREMOLD SERIES 500) RUN FROM CEILING SPACE ABOVE DOWN TO MILLWORK BACK-SPLASH (IF WALL CANNOT BE FISHED) AND THEN FEED THROUGH MILLWORK.

31 TO FEED INDICATED DEVICES RUN SINGLE CHANNEL COMPARTMENT SURFACE MOUNTED NON-METALLIC RACEWAY (IN THIS LOCATION ONLY - EQUAL TO WIREMOLD PLUGMOLD NM2000) ALONG WINDOW SIL. CONFIRM EXACT LOCATION ON SITE. AT FEED POINT (PROVIDE SERVICE ENTRANCE FITTING) PROVIDE 19mmC TO BRANCH CIRCUIT PANEL AS NOTED.

32 FEED LOW DEVICES ON THIS WALL BY RUNNING TWO COMPARTMENT RACEWAY OUT SIDE OF CONTROL PANEL, REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

33 INDICATES 20A-5P CONTACTOR CONTROLLING 50% OF RECEPTACLES IN CERTAIN ROOMS. CONTACTOR IS TO BE C/W 24V INTEGRAL TRANSFORMER CONTROL, HAND/OFF/AUTO SELECTOR SWITCH, AND RED PILOT LIGHT. (CIRCUITS S-22/23/24).

34 CO-ORDINATE LOCATION OF BAS PANEL WITH MECHANICAL CONTRACTOR IN CONJUNCTION WITH NEW ELECTRICAL EQUIPMENT WITHIN THIS ROOM.

35 INDICATES DUAL VOLTAGE RELAY WALL MOUNTED ABOVE CEILING ADJACENT TO NOTED MECHANICAL EQUIPMENT.

36 CO-ORDINATE RECESSED LIGHTING INSTALLATION IN FIRE RATED CEILING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DETAIL FOR ADDITIONAL INFORMATION.

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DATE	REVISIONS
FEB. 15, 2019	ISSUED FOR PERMIT AND TENDER

NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

PARTIAL FIRST FLOOR RENOVATION PLANS

LICENSED PROFESSIONAL ENGINEER T.G.G. MOHAMED 100507819 PROVINCE OF ONTARIO FEB 15, 19

TRUE NORTH	DWG. NORTH
N	N

JOB NO. 1920

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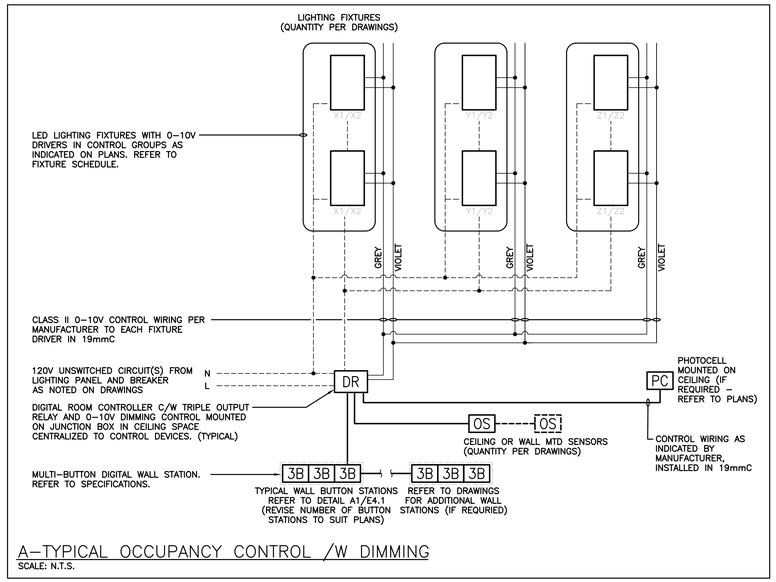
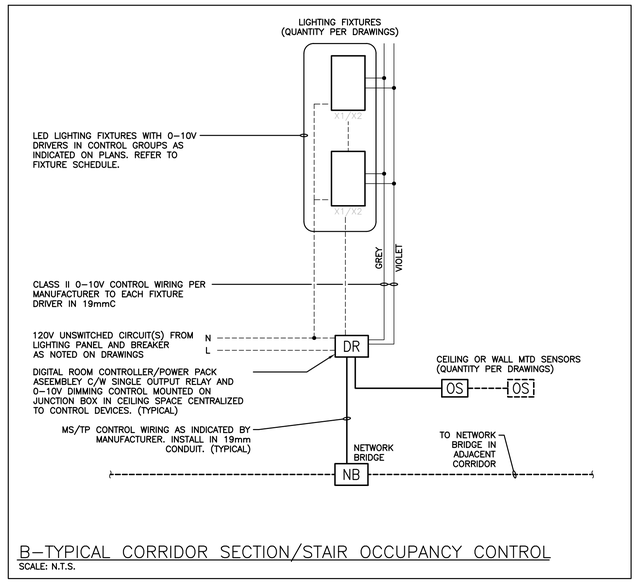


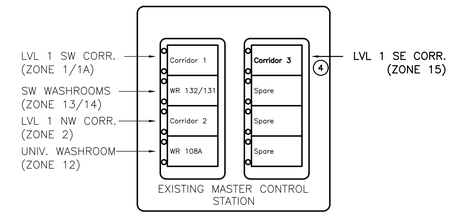
A–TYPICAL OCCUPANCY CONTROL /W DIMMING

SCALE: N.T.S.



B–TYPICAL CORRIDOR SECTION/STAIR OCCUPANCY CONTROL

SCALE: N.T.S.

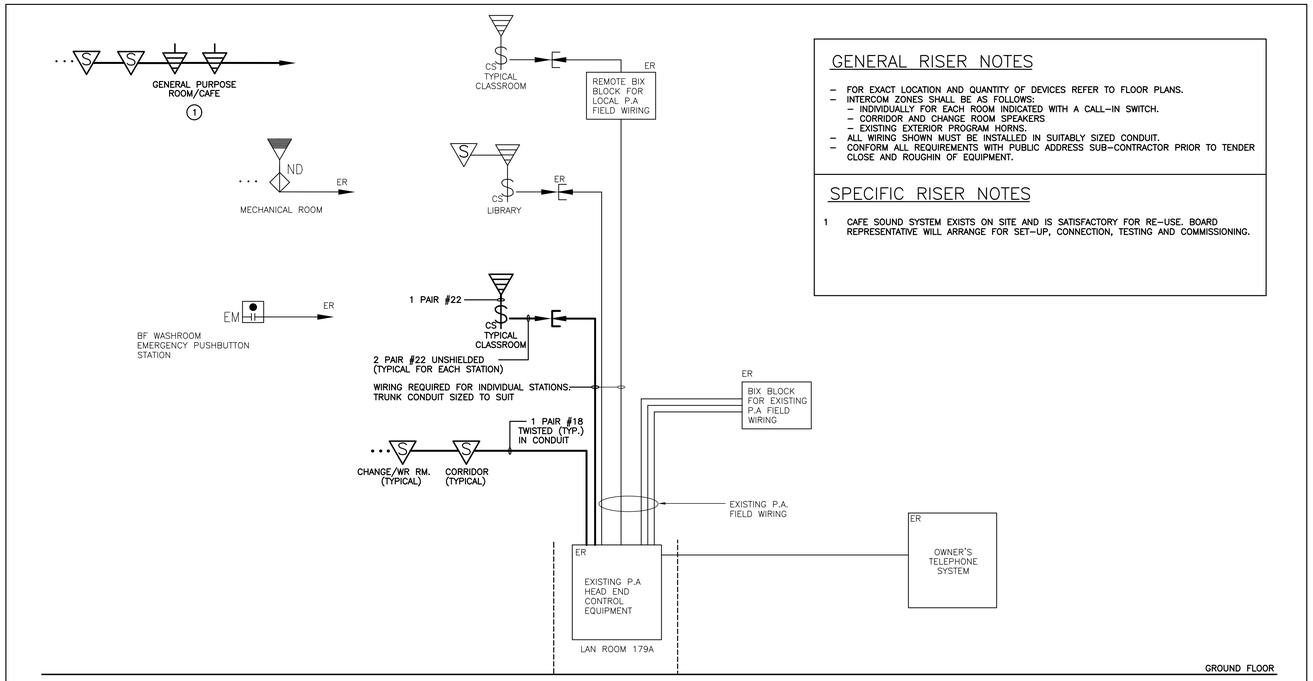


NOTES

1. PROVIDE BUTTON ENGRAVING WORKSHEET WITH SHOP DRAWING SUBMISSION FOR REVIEW. WORKSHEETS TO BE COMPLETED FOR EACH CONTROL STATION GROUP. REVISE ENGRAVING LABELS TO SUIT MANUFACTURER ALLOWABLE CHARACTERS. USE SINGLE MULTI–GANG FACEPLATE WITH P–TOUCH LABEL AS NOTED, FINISH PER SPECIFICATIONS.
2. REFER TO LIGHTING CONTROL ZONE PLAN FOR CONTROL GROUPINGS.
3. REFER TO FLOOR PLANS AND PROGRAM THE CORRESPONDING AREA DEPENDING ON CONTROL STATION LEVEL.
4. PROGRAM EXISTING SPARE MAINTENANCE OVERRIDE BUTTON ON EXISTING MASTER CONTROL STATION TO SUIT NEW CORRIDOR ZONE.

C–LV CONTROL MASTER CONTROL STATIONS

SCALE: NTS



GENERAL RISER NOTES

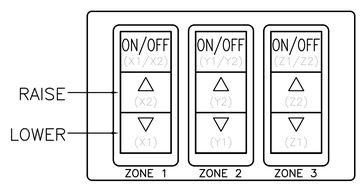
- FOR EXACT LOCATION AND QUANTITY OF DEVICES REFER TO FLOOR PLANS.
- INTERCOM ZONES SHALL BE AS FOLLOWS:
  - INDIVIDUALLY FOR EACH ROOM INDICATED WITH A CALL–IN SWITCH.
  - CORRIDOR AND CHANGE ROOM SPEAKERS
  - EXISTING EXTERIOR PROGRAM HORNS.
- ALL WIRING SHOWN MUST BE INSTALLED IN SUITABLY SIZED CONDUIT.
- CONFORM ALL REQUIREMENTS WITH PUBLIC ADDRESS SUB–CONTRACTOR PRIOR TO TENDER CLOSE AND ROUGHIN OF EQUIPMENT.

SPECIFIC RISER NOTES

1 CAFE SOUND SYSTEM EXISTS ON SITE AND IS SATISFACTORY FOR RE–USE. BOARD REPRESENTATIVE WILL ARRANGE FOR SET–UP, CONNECTION, TESTING AND COMMISSIONING.

D–PUBLIC ADDRESS RISER DIAGRAM

SCALE: NTS



A1–CLASSROOM BUTTON CONFIGURATION

SCALE: NTS

NOTES:

1. REFER TO LIGHTING PLANS FOR GROUPINGS.
2. WALL STATION BUTTONS TO BE ENGRAVED WITH LABELS ACCORDING TO LEVEL AS NOTED. COORDINATE LABELS WITH SCHOOL BOARD REPRESENTATIVE. PROVIDE BUTTON ENGRAVING WORKSHEET WITH SHOP DRAWING SUBMISSION FOR REVIEW. WORKSHEETS TO BE COMPLETED FOR EACH CONTROL STATION GROUP. USE SINGLE MULTI–GANG FACEPLATE WITH P–TOUCH LABEL AS NOTED, FINISH PER SPECIFICATIONS.
3. REFER TO SPECIFICATIONS FOR INFORMATION REGARDING PROGRAMMING OF INPUT DEVICES AND DIGITAL WALL STATIONS PER ROOM TYPE.

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DRAWING

LIGHTING CONTROL DETAILS & PUBLIC ADDRESS RISER DIAGRAM

LICENSED PROFESSIONAL ENGINEER T.G.G. MOHAMED 100507819 PROVINCE OF ONTARIO Feb 15, 19

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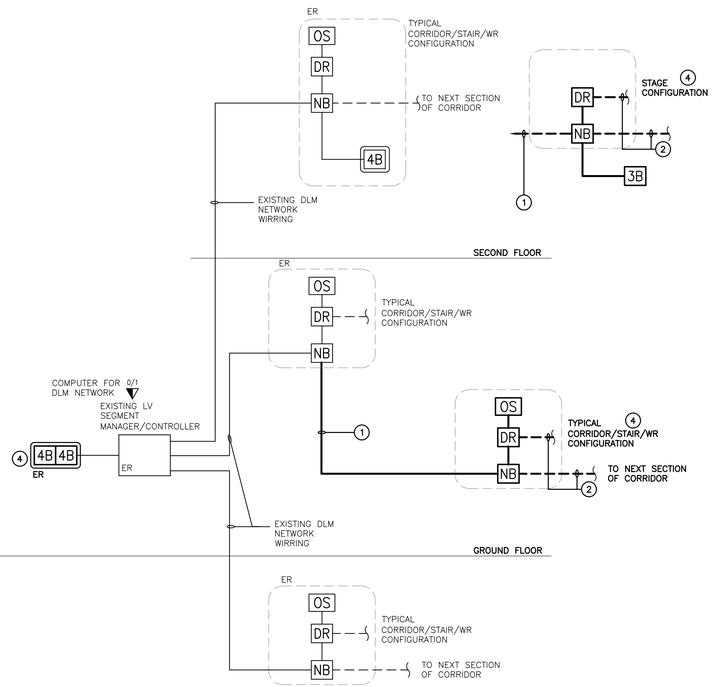
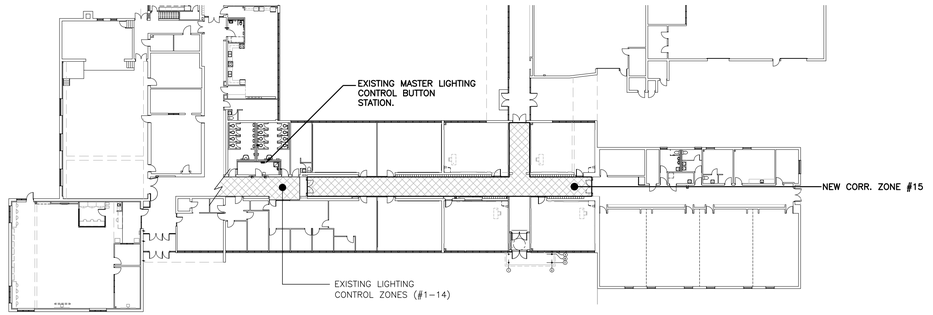


NOTES

1. CONTRACTOR TO INSTALL MS/TP CABLE FROM EXISTING NETWORK BRIDGE/SEGMENT MANAGER AND BETWEEN NEW NETWORK BRIDGES PER MANUFACTURERS RECOMMENDATIONS.
2. INDICATES LMRC CABLE BETWEEN DEVICES AND RELAY DIMMING CONTROLLERS AND TO NETWORK BRIDGES.
3. REFER TO INDIVIDUAL SPACE CONTROL SYSTEMS, DETAILS AND FLOOR PLANS FOR QUANTITY OF RELAYS, DEVICES, ZONES AND DIGITAL WALL STATION CONTROLS.
4. INDICATES EXISTING MASTER OVERRIDE SWITCH TO BE MODIFIED AND RE-PROGRAMMED FOR NEW CORRIDOR ZONE LOCATED AS PER FLOOR PLANS. REFER TO BUTTON DETAIL.

A-CENTRAL LV LIGHTING CONTROL

SCALE: NTS



GROUND FLOOR

B-CENTRAL LV LIGHTING CONTROL ZONE LAYOUT

SCALE: NTS

LEGEND

INDICATED AREA TO HAVE LIGHTING CONTROLLED BY OCCUPANCY SENSORS AND EXISTINTG SEGMENT MANAGER AS NOTED. REFER TO LIGHTING PLANS AND CONTROL DETAILS E4.1 FOR ANY LOCAL L.V. WALL STATION CONTROLS.

LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION

Space Type	Room Names	Control Sequence / Control Device(s):	Control System
Public Corridors/Vestibules	TYPICAL FOR SCHOOL CORRIDORS, VESTIBULES, STAIRWELLS	Sequence: AUTO ON: Segment manager signal corridor zones after school opening to allow occupancy sensors to adjust fixture brightness. ON FULL: Lights turned to 100% output via occupancy in each corridor zone. NORMAL HOURS AUTO ADJUST: 5 minutes after corridor zone is vacated, lights dim to 40% output. AUTO OFF: Segment manager signal corridor zones after school closing to restrict occupancy sensors to switch fixtures on/off only. AFTER HOURS AUTO ADJUST: 5 minutes after corridor zone is vacated, lights turn off. AFTER HOURS AUTO OFF: 5 minutes after corridor zone is vacated, lights turn off.	DIGITAL ROOM CONTROL SYSTEM c/w SEGMENT CONTROL
Classrooms	TYPICAL	Sequence: ON: Lights in group #1 turned on automatically via occupancy sensor, Lights in other groups turned on manually via wall station(s). ADJUST: The occupant manually adjusts lighting rows within the room to desired level or preset via dimmer station. AUTO ADJUST: Lights in each daylight zone(s) (Primary (PSL) & secondary (SSL)) automatically continuously dim via daylight sensor to suit daylight detected, each zone should be controlled separately and be set at 50fc to maintain the desired design light level in the room. OFF: 5 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume.	DIGITAL ROOM CONTROL SYSTEM
STAGE	TYPICAL	Sequence: ON: Lights turned on manually via wall station(s). ADJUST: The occupant manually adjusts lighting rows within the room to desired level or preset via dimmer station. OFF: Segment manager signal after school closing to switch fixtures off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state for an extended period, whereby normal operation is to resume.	DIGITAL ROOM CONTROL SYSTEM
CAFE	TYPICAL	Sequence: ON: Lights in group #1 turned on automatically via occupancy sensor, Lights in other groups turned on manually via wall station(s). ADJUST: The occupant manually adjusts lighting rows within the room to desired level or preset via dimmer station. AUTO ADJUST: Lights in each daylight zone(s) (Primary & secondary) automatically continuously dim via daylight sensor to suit daylight detected, each zone should be controlled separately and be set at 50fc to maintain the desired design light level in the room. OFF: 5 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume.	DIGITAL ROOM CONTROL SYSTEM

SYSTEM DESCRIPTIONS:

DIGITAL ROOM CONTROL (DLM) SYSTEM C/W EXISTING SEGMENT MANAGER MODIFICATIONS

DIGITAL ROOM CONTROL RELAY POWER PACKS C/W PLUG AND PLAY DIGITAL SENSORS AND WALL MOUNT CONTROL STATIONS.

REFER TO SPECIFICATIONS

NOTES:

1. ALL INDICATED TIMES, INCLUDING 'SCHOOL OPENING' AND 'SCHOOL CLOSING', SHALL BE COORDINATED WITH SCHOOL BOARD REPRESENTATIVE. REPORT ANY DISCREPANCIES BETWEEN SEQUENCE AND CONTROL DEVICES TO ENGINEER PRIOR TO PROGRAMMING. COORDINATE PROGRAMMING OF ANY SPACES NOT LISTED WITH BOARD REPRESENTATIVE.
2. ALL DIGITAL COMMON AREA SYSTEMS (CORRIDOR) SHALL BE INTERCONNECTED VIA NETWORK BRIDGES AND MS/TP TO SEGMENT MANAGER, HOWEVER ALL ZONES/SPACES ARE TO BE PROGRAMMED TO FUNCTION INDEPENDENTLY AS PER THE LIGHTING CONTROL PLAN
3. THE MANUFACTURER'S REPRESENTATIVE IS TO PROVIDE AN ON SITE COMMISSIONING SESSION WITH THE CONTRACTOR AND/OR CONSULTANT TO CONFIRM OPERATION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
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Do not scale this drawing.
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Project Number: 18296

DATE	REVISIONS
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NORWOOD DISTRICT HIGH SCHOOL RENOVATIONS 2019

44 ELM STREET NORWOOD,ONTARIO

KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD

DRAWING

LIGHTING CONTROL DETAILS & SCHEDULES

LICENSED PROFESSIONAL ENGINEER T.G.G. MOHAMED 100507819 Feb 15, 19 PROVINCE OF ONTARIO

TRUE NORTH | DWG. NORTH

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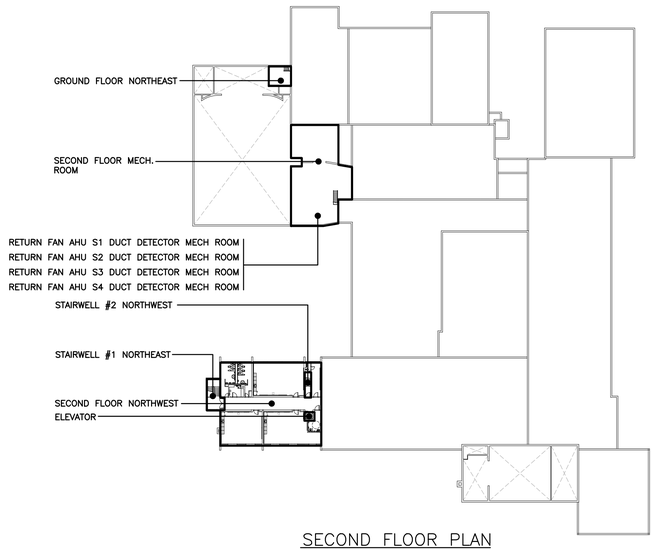
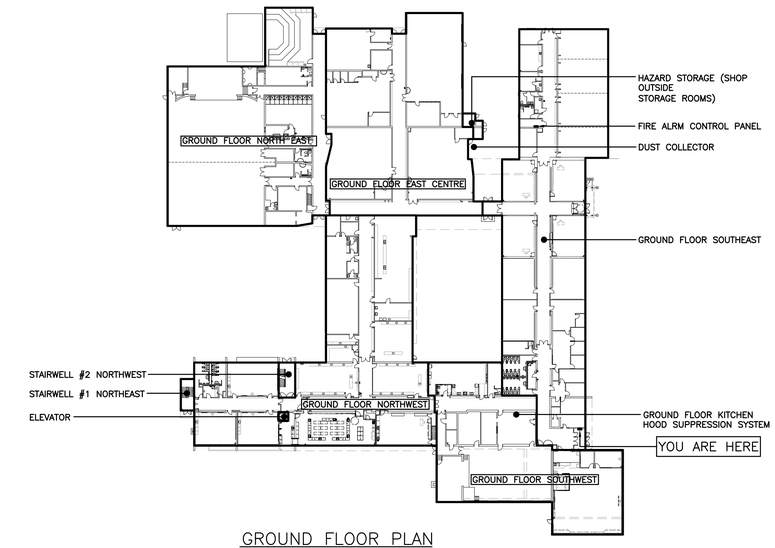
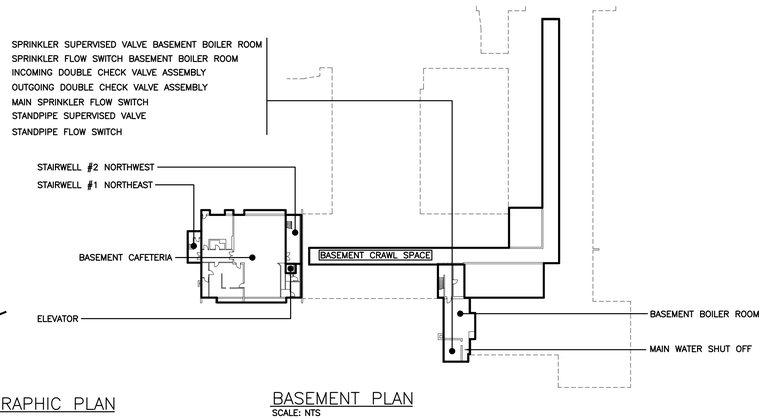


SECOND FLOOR PLAN
SCALE: NTS

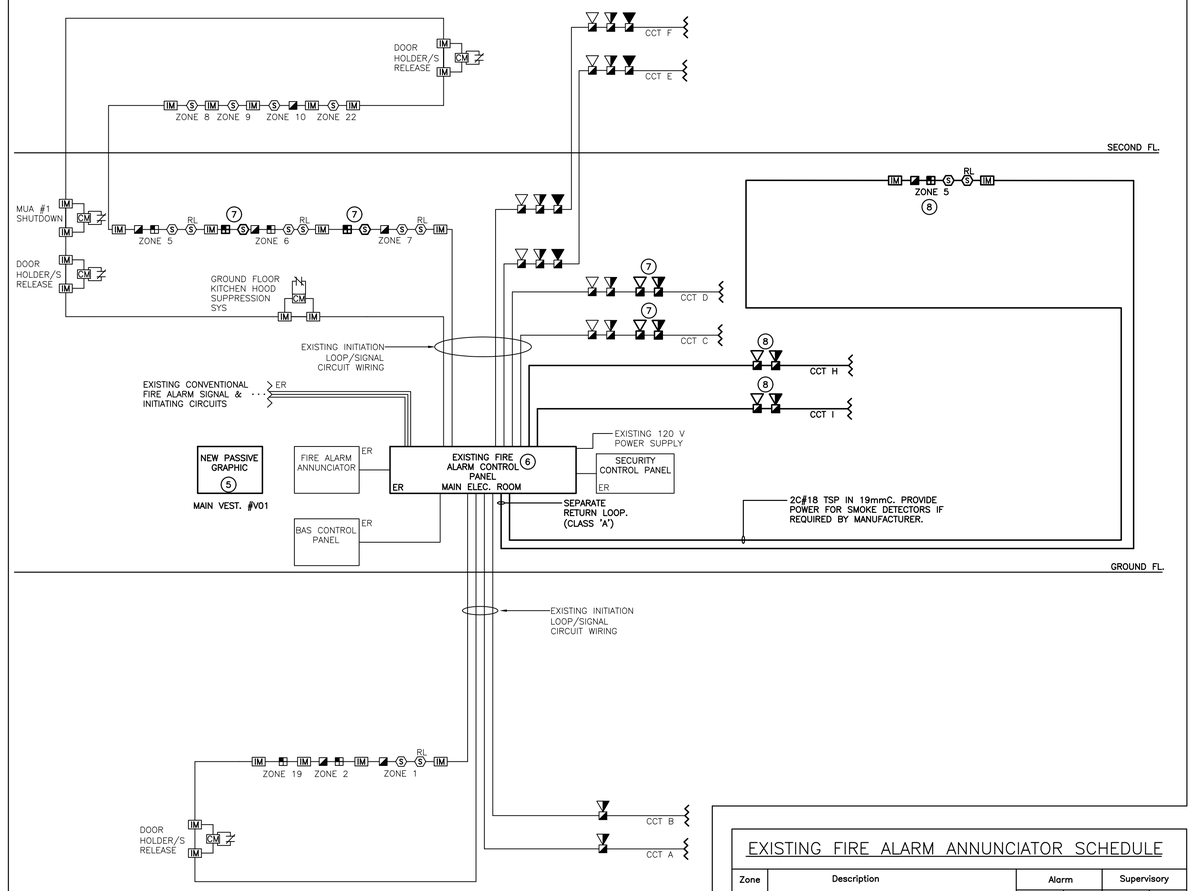


GROUND FLOOR PLAN
SCALE: NTS



PASSIVE GRAPHIC PLAN
SCALE: NTS

BASEMENT PLAN
SCALE: NTS



FIRE ALARM RISER DIAGRAM

NOTES

1. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES OF DEVICES.
2. CONTRACTOR IS TO CONFIRM WIRE SIZE (BASED UPON LENGTH OF CIRCUIT RUN AND QUANTITY OF SIGNALS) FOR SIGNAL CIRCUIT WITH MANUFACTURER.
3. PROVIDE THE REQUIRED NUMBER OF SIGNAL CIRCUITS TO SUIT THE QUANTITY OF STROBES. SIGNAL CIRCUITS ARE TO BE ALTERNATED.
4. LOCATE END OF LINE RESISTORS AND ISOLATOR MODULES IN SERVICE ROOMS AT ±1.8M AFF. PROVIDE LAMICOID LABEL INDICATING ZONE LABEL AND NUMBER.
5. AS PART OF SHOP DRAWING SUBMITTAL PROCESS THE DRAWING FOR THIS ANNUNCIATOR IS TO BE FORWARDED TO THE LOCAL BUILDING DEPARTMENT FOR REVIEW/APPROVAL PRIOR TO RELEASE INTO PRODUCTION.
6. EXISTING FIRE ALARM CONTROL PANEL TO BE MODIFIED, PROVIDE THE FOLLOWING:
   a) NEW MODULE(S) TO SUIT NEW ADDRESSABLE LOOP WIRING (WITHIN THE AREA OF 'GROUND FLOOR SOUTHEAST ZONE'), THIS WIRING WILL BE EXTENDED INTO ZONES 3/4/5 IN FUTURE RENOVATION PHASES.
   b) EXISTING MODULES SHOULD EXIST WITHIN THE PANEL TO SUIT 4 NEW SIGNAL CIRCUITS, PROVIDE 2 FOR THIS PHASE OF RENOVATIONS (WITHIN THE AREA OF 'GROUND FLOOR SOUTHEAST ZONE').
   c) IN RENOVATED AREAS IN ZONES 'GROUND FLOOR NORTHWEST/GROUND FLOOR SOUTHWEST' CONNECT DEVICES TO THE EXISTING ADDRESSABLE LOOP WIRING/SIGNAL CIRCUITS IN THAT AREA (PREVIOUSLY INSTALLED IN 2018).
7. INDICATES NEW DEVICES (WITHIN EXISTING ZONES) CONNECTED TO EXISTING ADDRESSABLE INITIATING LOOP/SINGNAL CIRCUIT WIRING IN AREA OF RENOVATION.
8. INDICATES NEW DEVICES (WITHIN EXISTING ZONES) CONNECTED TO NEW ADDRESSABLE INITIATING LOOP/SINGNAL CIRCUIT WIRING IN AREA OF RENOVATION.

EXISTING FIRE ALARM ANNUNCIATOR SCHEDULE

Zone	Description	Alarm		Supervisory	
		Existing	New	Existing	New
1	BASEMENT CAFETERIA	●			
2	BASEMENT BOILER ROOM	●			
3	GROUND FLOOR NORTHEAST	●			
4	GROUND FLOOR EAST CENTRE	●			
5	GROUND FLOOR SOUTHEAST	●			
6	GROUND FLOOR SOUTHWEST	●			
7	GROUND FLOOR NORTHWEST	●			
8	STAIRWELL #1 NORTHWEST	●			
9	STAIRWELL #2 NORTHEAST	●			
10	SECOND FLOOR NORTHWEST	●			
11	SECOND FLOOR MECH. ROOM	●			
12	RETURN FAN AHU S1 DUCT DETECTOR MECH ROOM	●			
13	RETURN FAN AHU S2 DUCT DETECTOR MECH ROOM	●			
14	RETURN FAN AHU S3 DUCT DETECTOR MECH ROOM	●			
15	RETURN FAN AHU S4 DUCT DETECTOR MECH ROOM	●			
16	SPARE	●			
17	SPRINKLER FLOW SWITCH BASEMENT BOILER ROOM	●			
18	STANDPIPE FLOW SWITCH	●			
19	BASEMENT CRAWL SPACE	●			
20	HAZARD STORAGE (SHOP OUTSIDE STORAGE ROOMS)	●			
21	ROOM 153 DUST COLLECTOR SPARK DETECTOR			●	
22	ELEVATOR SHAFT	●			
23	MAIN SPRINKLER FLOW SWITCH	●			
24	SPARE	●			
25	GROUND FLOOR KITCHEN HOOD SUPPRESSION SYSTEM	●			
26	SPARE	●			
27	SPARE	●			
28	SPARE	●			
29	SPRINKLER SUPERVISED VALVE BASEMENT BOILER RM			●	
30	STANDPIPE SUPERVISED VALVE			●	
31	INCOMING DOUBLE CHECK VALVE ASSEMBLY			●	
32	OUTGOING DOUBLE CHECK VALVE ASSEMBLY			●	
33	SPARE	●			
34	SPARE	●			
35	SPARE	●			
36	SPARE			●	
37	SPARE			●	
38	SPARE			●	

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