



MARCH 2025

KEY PLAN

# ASCENSION CATHOLIC ELEMENTARY SCHOOL INTERIOR RENOVATION

5205 NEW STREET, BURLINGTON ON L7L 1V3

|   |  |               | ASCENSIC<br>ELEMENT<br>INTERIOR  |
|---|--|---------------|--|
|   |  |               | ARCHITECTURAL  |
|   |  |               | A01 KEY PLANS, AND<br>A02 DEMOLITION GRO<br>A03 PROPOSED GROU                                |
|   |  |               | A04 DEMOLITION SEC<br>A05 PROPOSED SECC<br>A06 GROUND FLOOR                                  |
| ſ | HOSSA  |               | A07 SECOND FLOOR F<br>A08 ROOF PLAN<br>A09 EXTERIOR ELEVA<br>A10 ENLARGER WASH               |
|   | ARCHITEC   |               | A10 ENLARGER WAS<br>INTERIOR ELEVAT<br>A11 SCHEDULES   |
|   |  |               | <b>MECHANICAL</b>  |
|   |  |               | M1.0 LEGENDS, GENER<br>M2.0 DEMOLITION PLUI  |
|   | 105 - 1939 IRON<br>OAKVILLE ON<br>(905) 815-8284 admin@h | L6H 3V8       | M3.0 PROPOSED PLUM<br>M4.0 DEMOLITION & PF<br>M5.0 DEMOLITION & PF<br>M6.0 MECHANICAL SPE    |
| r |  |               | M7.0 MECHANICAL SPE  |
|   |  |               | ELECTRICAL   |
|   |  |               | E1.1 ELECTRICAL SCH<br>E1.2 ELECTRICAL PAN<br>E1.3 EXISTING FIRE AL                          |
|   | RC   | EI /          | E2.0 DEMOLITION LIGH<br>E2.1 DEMOLITION LIGH<br>E2.2 DEMOLITION FIRE<br>E2.3 DEMOLITION FIRE |
|   |  |               | E2.4 DEMOLITION EXIS<br>LIGHTING & EXIT<br>E2.5 DEMOLITION EXIS                              |
|   |  |               | LIGHTING & EXIT<br>E2.6 DEMOLITION GRC<br>WASHROOM POW                                       |
|   |  |               | E2.7 DEMOLITION SEC<br>WASHROOM POW<br>E3.0 PROPOSED LIGHT                                   |
|   |  |               | E3.1 PROPOSED LIGHT<br>E3.2 PROPOSED FIRE<br>E3.3 PROPOSED FIRE<br>E3.4 PROPOSED EMER        |
|   | TRI-<br>PINN   | TECH<br>V/CLE | E3.5 PROPOSED EMER<br>EXIT SIGNS GROU<br>EXIT SIGNS SECO                                     |
|   | •  |               | E3.6 PROPOSED GROU<br>POWER PLAN<br>E3.7 PROPOSED SECC                                       |
|   |  |               | POWER PLAN<br>E4.0 ELECTRICAL SPE<br>E4.1 ELECTRICAL SPE                                     |
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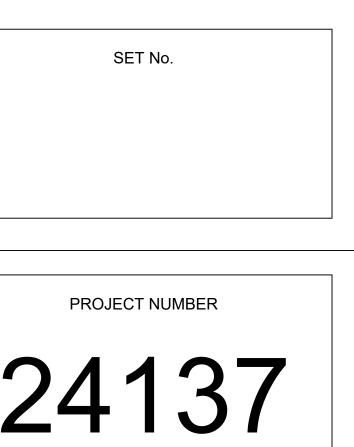
## ASCENSION CATHOLIC ELEMENTARY SCHOOL INTERIOR RENOVATION <u>CTURAL</u> Y PLANS, AND OBC MATRIX MOLITION GROUND FLOOR PLAN OPOSED GROUND FLOOR PLAN MOLITION SECOND FLOOR PLAN ROPOSED SECOND FLOOR PLAN ROUND FLOOR RCP COND FLOOR RCP OF PLAN TERIOR ELEVATIONS LARGER WASHROOMS & ERIOR ELEVATIONS HEDULES

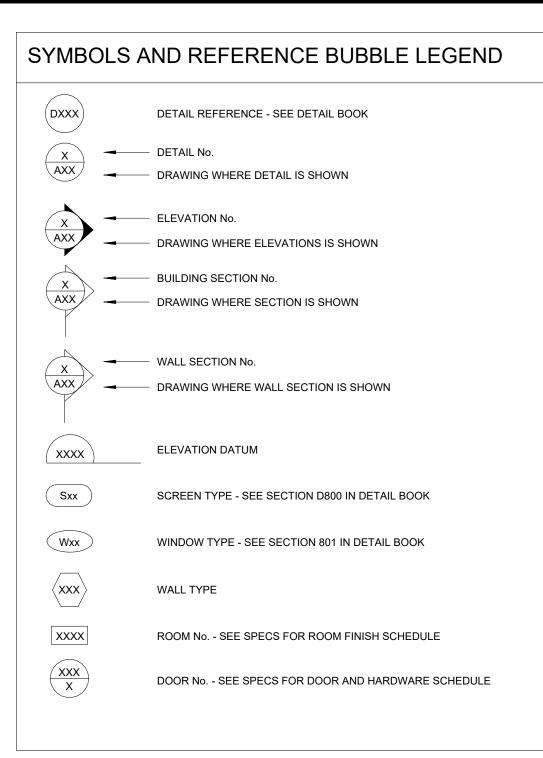
GENDS, GENERAL NOTES, EQUIPMENT MOLITION PLUMBING & DRAINAGE LAYOUT OPOSED PLUMBING & DRAINAGE LAYOUT MOLITION & PROPOSED HVAC LAYOUT MOLITION & PROPOSED SPRINKLER LAYOUT CHANICAL SPECIFICATION - 1 CHANICAL SPECIFICATION - 2

## <u>CAL</u>

ECTRICAL LEAD SHEET ECTRICAL SCHEDULES - 2 ECTRICAL PANEL SCHEDULES STING FIRE ALARM ZONING SCHEDULE MOLITION LIGHTING GROUND FLOOR MOLITION LIGHTING SECOND FLOOR MOLITION FIRE ALARM GROUND FLOOR MOLITION FIRE ALARM SECOND FLOOR MOLITION EXISTING EMERGENCY SHTING & EXIT SIGNS GROUND FLOOR MOLITION EXISTING EMERGENCY SHTING & EXIT SIGNS SECOND FLOOR MOLITION GROUND FLOOR SHROOM POWER PLAN MOLITION SECOND FLOOR SHROOM POWER PLAN OPOSED LIGHTING GROUND FLOOR PLAN OPOSED LIGHTING SECOND FLOOR PLAN OPOSED FIRE ALARM GROUND FLOOR OPOSED FIRE ALARM SECOND FLOOR OPOSED EMERGENCY LIGHTING & T SIGNS GROUND FLOOR PLAN OPOSED EMERGENCY LIGHTING & SIGNS SECOND FLOOR PLAN OPOSED GROUND FLOOR WASHROOM WER PLAN ROPOSED SECOND FLOOR WASHROOM

ECTRICAL SPECIFICATIONS - 1 ECTRICAL SPECIFICATIONS - 2







# STUDENT OCCUPANT LOAD (FOR W/C COUNT ONLY)

| ROOM TYPE<br>(EXISTING) | NUMBER OF<br>ROOMS | OCC. LOAD<br>PER ROOM | TOTAL<br>OCC. LOAD | NOTES |
|-------------------------|--------------------|-----------------------|--------------------|-------|
| GROUND FLOOR            |                    |                       |                    |       |
| STANDARD CLASSROOM      | 5                  | 30                    | 150                |       |
| KINDERGARTEN CLASSROOM  | 2                  | 26                    | 52                 |       |
| SPEC ED. CLASSROOM      | 1                  | 9                     | 9                  |       |
| COMPUTER LAB            | 1                  | 30                    | 30                 |       |
| LIBRARY RESOURCE CENTRE | 1                  | 59                    | 0                  | (1)   |
| GENERAL PURPOSE ROOM    | 1                  | 370                   | 0                  | (1)   |
| SECOND FLOOR            |                    |                       |                    |       |
| STANDARD CLASSROOM      | 7                  | 30                    | 210                |       |
| ART CLASSROOM           | 1                  | 30                    | 30                 |       |
| SCIENCE CLASSROOM       | 1                  | 30                    | 30                 |       |
| MUSIC CLASSROOM         | 1                  | 30                    | 30                 |       |
| TOTAL OCCUPANT LOAD     |                    |                       | 489                |       |

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

489 (OCC. LOAD) DIVIDED BY 2 = 245 GIRLS & 245 BOYS 245 DIV. BY 30 BOYS = 8.16 **(9) BOYS WASHROOMS REQUIRED** 245 DIV. BY 26 GIRLS = 9.42 (10) GIRLS WASHROOMS REQUIRED

### STAFF OCCUPANT LOAD (FOR W/C COUNT ONLY)

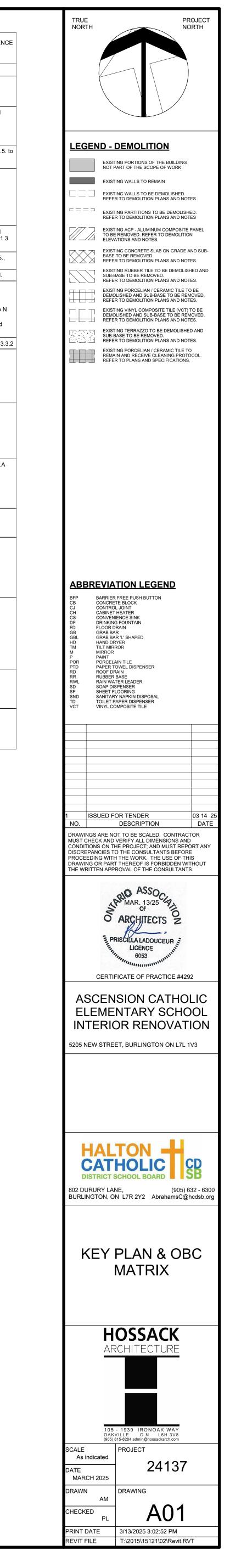
| ROOM TYPE<br>(EXISTING) | NUMBER OF<br>ROOMS | OCC. LOAD<br>PER ROOM |    | NOTES |
|-------------------------|--------------------|-----------------------|----|-------|
| GROUND FLOOR            |                    |                       |    |       |
| STANDARD CLASSROOM      | 5                  | 1                     | 5  |       |
| KINDERGARTEN CLASSROOM  | 2                  | 1                     | 2  |       |
| SPEC ED. CLASSROOM      | 1                  | 1                     | 1  |       |
| COMPUTER LAB            | 1                  | 0                     | 0  | (1)   |
| LIBRARY RESOURCE CENTRE | 1                  | 1                     | 1  |       |
| GENERAL PURPOSE ROOM    | 1                  | 0                     | 0  | (1)   |
| ADMINISTRATION AREAS:   |                    |                       |    |       |
| PRINCIPAL               | 1                  | 1                     | 1  |       |
| VICE PRINCIPAL          | 1                  | 1                     | 1  |       |
| COUNSELOR               | 1                  | 1                     | 1  |       |
| RECEPTIONIST            | 1                  | 2                     | 2  |       |
| CUSTODIAN               | 1                  | 2                     | 2  |       |
| SECOND FLOOR            |                    |                       | -  | _     |
| STANDARD CLASSROOM      | 7                  | 1                     | 7  |       |
| ART CLASSROOM           | 1                  | 1                     | 1  |       |
| SCIENCE CLASSROOM       | 1                  | 1                     | 1  |       |
| MUSIC CLASSROOM         | 1                  | 1                     | 1  |       |
| TOTAL OCCUPANT LOAD     |                    |                       | 26 |       |

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

26 (OCC. LOAD) DIVIDED BY 2 = 13 WOMEN & 13 MEN 13 DIV. BY 30 BOYS = 0.4 **(1) MENS WASHROOM FIXTURE REQUIRED** 13 DIV. BY 26 GIRLS = 0.5 (1) WOMENS WASHROOM FIXTURE REQUIRED

| WASHROOM TYPE  | NO. OF WA<br>CLOSETS PR         | <br>N | IO. OF LAVATORIES |
|--|---------------------------------|-------|-------------------|
| BOY'S WASHROOM   | 16                              | (2)   | BRADLEY - 4-SPRAY |
| BOY'S CHANGEROOM   | 2                               |       | 1                 |
| GIRL'S WASHROOM  | 14                              | (2)   | BRADLEY - 4-SPRAY |
| GIRL'S CHANGEROOM  | 2                               |       | 1                 |
| KINDERGARTEN   | 2                               |       | 2                 |
| UNISEX (STAFF)   | 2                               |       | 2                 |
| UNIVERSAL<br>WASHROOM  | 1                               |       | 2                 |
| GROUND FLOOR   |                                 |       | 22                |
| BOY'S WASHROOMS  |                                 |       | 10                |
| CHANGE ROOM  | = 1WC + 1U                      |       |                   |
| GROUND FLOOR   |                                 |       | 0                 |
| GROUND FLOOR<br>GIRL'S WASHROOMS   |                                 |       | 9                 |
| GROUND FLOOR   | = 4WC + 4U                      |       | 9                 |
| GROUND FLOOR<br>GIRL'S WASHROOMS<br>CHANGE ROOM  | = 4WC + 4U<br>= 2<br>= 7        |       | 9<br>2            |
| GROUND FLOOR<br>GIRL'S WASHROOMS<br>CHANGE ROOM<br>GROUND FLOOR  | = 4WC + 4U<br>= 2<br>= 7<br>OOM |       | -                 |
| GROUND FLOOR<br>GIRL'S WASHROOMS<br>CHANGE ROOM<br>GROUND FLOOR<br>KINDERGARTEN WASHR  | = 4WC + 4U<br>= 2<br>= 7<br>OOM |       | 2                 |
| GROUND FLOOR<br>GIRL'S WASHROOMS<br>CHANGE ROOM<br>GROUND FLOOR<br>KINDERGARTEN WASHR<br>UNIVERSAL WASHROOM                                    | = 4WC + 4U<br>= 2<br>= 7<br>OOM |       | 2<br>1            |
| GROUND FLOOR<br>GIRL'S WASHROOMS<br>CHANGE ROOM<br>GROUND FLOOR<br>KINDERGARTEN WASHR<br>UNIVERSAL WASHROOM<br>SECOND FLOOR<br>BOY'S WASHROOMS | = 4WC + 4U<br>= 2<br>= 7<br>OOM |       | 2<br>1<br>17      |

|        |  | ONTARIO BUILDING CODE DATA MATRIX<br>PART 11 - RENOVATION OF EXISTING BUILDING   | OBC REFERENC  |
|--------|--|--|---|
| 11.00  | BUILDING CODE VERSION                          | O.Reg. 332/12 LAST AMENDMENT O.Reg. 191/14   |   |
| 11.01  | PROJECT TYPE:                                  | ADDITION ■ RENOVATION □ ADDITION AND RENOVATIO     CHANGE OF USE     DESCRIPTION: INTERIOR RENOVATION AND WINDOW UPGRAD  |   |
| 11.02  | MAJOR OCCUPANCY<br>CLASSIFICATION:             | OCCUPANCY     USE       A2   | 3.1.2.1.(1) and<br>11.2.1   |
| 11.03  | SUPERIMPOSED<br>MAJOR OCCUPANCY:               | YES     ■ NO     DESCRIPTION -   | 11.2 and 3.2.2.5.<br>3.2.2.8  |
| 11.04  | BUILDING AREA (m <sup>2</sup> )                | DESCRIPTION         EXISTING         NEW         TOTAL           GROUND FLOOR         2140         0         2140           SECOND FLOOR         1345         0         1345           -         0         0         0   | [A] 1.4.1.2,<br>11.2, and 11.3  |
| 11.05  | BUILDING HEIGHT                                | TOTAL =        34850        3485            STOREYS ABOVE GRADE        6         (m) ABOVE GRADE           0         STOREYS BELOW GRADE   | <ul> <li>[A] 1.4.1.2 and</li> <li>3.2.1.1., and 11.3</li> </ul>                                 |
| 11.06  | NUMBER OF STREETS /<br>FIREFIGHTER ACCESS      | <u>2</u> STREET(S)   | 3.2.2.10., 3.2.5.,<br>and 11.3  |
| 11.07  | BUILDING SIZE                                  | SMALL □ MEDIUM ■ LARGE □ > LARGE   | T.11.2.1.1.B-N.   |
| 11.08  | EXISTING BUILDING                              | CHANGE IN MAJOR OCCUPANCY: S YES NO CHANG  |   |
|        | CLASSIFICATION:                                | CONSTRUCTION INDEX:<br>HAZARD INDEX:   | T.11.2.1.1.A<br>T.11.2.1.1.B to N   |
|        |  | IMPORTANCE CATEGORY:     LOW     NORMAL       HIGH     POST-DISASTEF   | 4.1.2.1.(3), and<br>5.2.2.1.(2)   |
| 11.09  | RENOVATION TYPE:                               | BASIC RENOVATION   EXTENSIVE RENOVATION  | 11.3.3.1 or 11.3.3  |
| 11.10  | OCCUPANT LOAD                                  | FLOOR AREA OCCUPANCY BASED ON OCCUPANT LOA<br>TYPE (PERSONS)   | D 3.1.17.,<br>11.4.2.2  |
|        |  | GROUND         A2         -         489           SECOND         A2         -         300           -         -        0   |   |
| 11.11a | PLUMBING FIXTURE                               | RATIO: <u>3.7.4.3 (14): 1/30 MALES + 1/26 FEMALES</u>  | 3.7.4.,   |
|        | REQUIREMENTS                                   | FLOOR AREA OCCUPANT OBC WCs WCs<br>LOAD REFERENCE Required Provide   | 11.3.4.,<br>11.3.5.,<br>11.4.2.4., and<br>11.4.2.5.   |
|        |  | GROUND         489         3.7.4.3(14)         11         22           SECOND         300         3.7.4.3(14)         11         17  | 11.4.2.0.   |
| 11.11b | PLUMBING FIXTURE<br>REQUIREMENTS<br>continued: | FLOOR AREA BARRIER- BARRIER- UTR UTR<br>(repeated) FREE WCs FREE WCs Required Provide<br>Required Provided   | Tables 3.8.2.3.A<br>and 3.8.2.3.B   |
|        |  | GROUND         2         2         1         1           SECOND         2         2         0         0  |   |
| 11.12  | BARRIER-FREE DESIGN                            | YES NO Explanation   | 11.3.3.2.(2)  |
|        | BARRIER-FREE<br>ENTRANCES                      | <u>1</u> NUMBER <u>Explanation</u>   |   |
| 11.13  | REDUCTION IN<br>PERFORMANCE LEVEL              | STRUCTURAL:NOYEBY INCREASE IN OCCUPANT LOAD;NOYEBY CHANGE OF MAJOR OCCUPANCY:NOYEPLUMBING:NOYESEWAGE-SYSTEM:NOYEEXTENSION OF BUILDINGS OFNOYECOMBUSTIBLE CONSTRUCTION:YE   | S       11.4.2.2.         S       11.4.2.3.         S       11.4.2.4.         S       11.4.2.5. |
| 11.14  | COMPENSATING<br>CONSTRUCTION:                  | NO       YES         STRUCTURAL:       NO         BY INCREASE IN OCCUPANT LOAD;       NO         BY CHANGE OF MAJOR OCCUPANCY:       NO         PLUMBING:       NO         SEWAGE-SYSTEM:       NO         EXTENSION OF BUILDINGS OF       NO         COMBUSTIBLE CONSTRUCTION:       YE | S       11.4.3.3.         S       11.4.3.4.         S       11.4.3.5.         S       11.4.3.6. |
| 11.15  | COMPLIANCE<br>ALTERNATIVES<br>PROPOSED:        | NO C YES (list numbers and describe)   | 11.5.1<br>  |
| 11.16  | NOTES:   | IS AN ALTERNATIVE SOLUTION USED?   | S 11.5.1  |

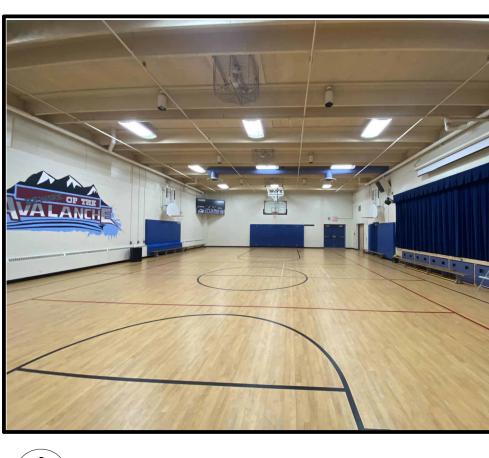


# DEMOLITION PLAN NOTES

| SC IS TO FI          | ELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.   |
|----------------------|--|
| RAWINGS              | ALS AND DEMOLITION TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL<br>PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE<br>AL, MECH. AND ELECT. DWGS.  |
|                      | CONTRACTOR TO REVIEW DOOR SCHEDULE AND FLOOR PLANS FOR EXTENT OF SANDING, FILLING NTING EXISTING FRAMES TYP.   |
|                      | CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AND ROOF ASSEMBLY AS PRIOR TO DEMOLITION/ CORING. SEE SPECIFICATIONS   |
|                      | D AREAS TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION, REMOVAL OF ALL<br>TION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 01 74 11.   |
|                      | CONTRACTOR IS RESPONSIBLE TO REVIEW ASBESTOS REPORT IN SPECIFICATION FOR EXTENT OF NATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEYS AND EXTENT OF ABATEMENT WORK.   |
|                      | REMOVE EXISTING WASHROOM PARTITIONS, HARDWARE, FASTENERS, TOILET PAPER DISPENSERS, GRAB BARS, ETC. PAT<br>AND MAKE GOOD ALL WALLS AS REQUIRED FOR NEW WALL FINISH. PREPARE EXISTING CONCRETE BLOCK AND FLOOR FIN<br>FOR NEW PARTITIONS AND INSTALLATION OF NEW FITMENTS. SEE SPEC AND PROPOSED FLOOR PLAN. REFER TO MECH.<br>DWGS.   |
| 2                    | CONTRACTOR TO REMOVE EXISTING TOILET, AND URINALS. CONTRACTOR TO HAND OVER TO OWNER. CAP ALL ASSOCIATE PLUMBING AND PREPARE CONCRETE FLOOR FOR NEW FINISH. REFER TO MECHANICAL DRAWINGS.   |
| 3                    | CONTRACTOR TO REMOVE AND DISPOSE EXISTING BRADLEY, SINK, RECESSED BIN, HAND DRYER, MIRRORS AND ADJACEN<br>SOAP DISPENSERS, ETC PATCH AND MAKE GOOD ALL WALLS AS REQUIRED. REFER TO MECH. AND ELECT. DWGS.  |
| 4                    | REMOVE EXISTING <u>WALL TILE</u> , GROUT, MORTAR/MASTIC, ETC, ON WALLS <u>IN ENTIRE ROOM</u> . PREPARE ALL EXISTING CONC<br>WALLS FOR NEW FINISH (INCLUDING PATCHING, ETC). REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL<br>BASE.  |
| 5                    | REMOVE EXISTING <u>FLOORING</u> , GLUE, BASEBOARD, ETC, <u>IN ENTIRE ROOM</u> . PREPARE ALL EXISTING CONCRETE FLOOR SLA<br>FOR NEW FINISH (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC). REFER TO FINISH SCHEDULE AND SPEC. FOR NEW<br>FINISH MATERIAL AND BASE. ENSURE NEW FLOOR FINISH IS LEVEL / SEAMLESS IN HEIGHT BETWEEN EXISTING ADJACENT<br>FLOOR FINISHES (NO TRNASITIONS). CONTRACTOR TO REMOVE EXISTING MILLWORK, BENCHES & SHELVING AS REQUIRED<br>THE DEMOLITION OF EXISTING FLOORING. CONTRACTOR TO STORE IN SAFE PLACE AND REINSTALL UPON INSTALLATION O<br>NEW FLOORING. |
| 6                    | REMOVE EXISTING <u>CERAMIC TILE</u> , MASTIC AND MORTAR BED, INCLUDING BASEBOARDS, ETC, IN WASHROOM AND CORRIDG<br>PREPARE ALL EXISTING CONCRETE FLOOR SLABS FOR NEW FINISH (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC<br>REFER TO DRAWING FOR EXTENTS. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND BASE. ENSUF<br>NEW FLOOR FINISH IS LEVEL / SEAMLESS IN HEIGHT BETWEEN EXISTING ADJACENT FLOOR FINISHES (NO TRNASITIONS).  |
|                      | REMOVE EXISTING <u>VCT AND RUBBER TILE</u> , GLUE, BASEBOARD, ETC, IN STAIRS INCLUDING RISERS AND TREADS. PREPARE<br>EXISTING CONCRETE FOR NEW FINISH (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC). FLOORING ON GROUND FLO<br>TO REMAIN. REFER TO DRAWING FOR EXTENTS. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND<br>BASE. ENSURE NEW FLOOR FINISH IS LEVEL / SEAMLESS IN HEIGHT BETWEEN EXISTING ADJACENT FLOOR FINISHES (NO<br>TRNASITIONS).  |
| 8                    | EXISTING 150mm CONCRETE SLAB ON GRADE AND GRANULAR SUBBASE OR 200mm REINFORCED CONC. SECOND FLOOR TO CUT AS REQUIRED TO SUIT PLUMBING WORK. TYPICAL FOR ALL AREA SHOWN IN HATCH INDICATED. REFER TO MECHANICA DRAWINGS. EXACT EXTENT TO BE CONFIRMED ON SITE.  |
| 9                    | CONTRACTOR TO REMOVE EXISTING LOCKER BANKS, EXISTING CONCRETE BASE TO REMAIN. PATCH AND MAKE GOOD EXISTING WALL, BULKHEAD AND FLOOR AS REQUIRED FOR THE INSTALLATION OF NEW LOCKERS.   |
| 10                   | CONTRACTOR TO PATCH WALL, PRIME AND REPAINT. CONTRACTOR TO REMOVE ALL WALL SURFACE MOUNTED ITEMS,<br>DEVICES, CAGES, FACE PLATES, FIXTURES AND ETC. AS REQUIRED TO COMPLETE PAINTING. GRILLS AND RADIATORS TO B<br>PAINTED TO MATCH. GYMNASIUM WALL MURAL TO REMAIN. CONTRACTOR TO REMOVE LIBRARY MILLWORK AS REQUIRED<br>PRIOR TO PAINTING AND REINSTALL. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH.  |
| $\langle 11 \rangle$ | GYMNASIUM CEILING AND STRUCTURAL BULKHEADS TO BE PRIMED AND PAINTED. CONTRACTOR TO ENSURE WOOD<br>GYMNASIUM FLOOR AND SCORE BOARD IS ADEQUETLY COVERED AND PROTECTED DURING CONSTRUCTION WORKS.<br>CONTRACTOR TO REMOVE AND STORE WALL MATS IN SAFE PLACE AND REINSTALL AFTER COMPLETION OF PAINTING.<br>CONTRACTOR TO COORDINATE LIGHTING UPGRADE WITH ELECTRICAL DRAWINGS.   |
| 12                   | CONTRACTOR TO REMOVE WALL MOUNTED ART, INCLUDING ANY GLUE OR FASTENERS. PATCH AND MAKE GOOD ALL WALI<br>REQUIRED. PRIME AND PAINT WALL SURFACE AS REQUIRED. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH<br>MATERIAL AND BASE.  |
| 13                   | REMOVE EXISTING HM DOOR ASSEMBLY, HARDWARE AND HM FRAME AT WASHROOMS. LINTEL AND ADJACENT BLOCK WAL<br>ABOVE TO REMAIN. PATCH AND MAKE GOOD EXISTING WALL AND SMOOTH EDGES INTO BULLNOSE AT BOTH SIDES OF EXIS<br>BLOCK. REMOVE TERRAZO BASE EXTENDING INTO DOOR OPENING TO BE REPLACED BY WASHROOM FLOOR FINISH. REFE<br>ROOM FINISH SCHEDULE.  |
| 14                   | REMOVE EXISTING METAL STUD WALL, ALONG WITH WALL TILES, MASTIC, GROUT AND ALL MILLWORK FINISHES AND ELECTRICAL CONDUITS COMPLETELY FOR NEW INTERIOR MILLWORK FITMENTS. EXISTING STUDENT SUCCESS PLAQUE TO REMOVED AND RELOCATED. REFER TO INTERIOR ELEVATIONS.   |
| 15                   | REMOVE EXISTING <u>TERRAZZO</u> , MORTAR BED, ETC, TO NEAREST FULL ALUMINUM JOINT IN FORUM, REFER TO DEMO FLOOR<br>PLAN FOR EXTENTS. PREPARE ALL EXISTING CONCRETE FLOOR SLABS FOR NEW FINISH (INCLUDING PATCHING, LEVELING<br>SKIM-COATING, ETC). REFER TO DRAWING FOR EXTENTS. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATER<br>AND BASE.  |
| (16)                 | REMOVE EXISTING BARRIER FREE PUSH BUTTON AND ASSOCIATED CONDUIT AND WIRING. REFER TO ELEC DWGS.<br>CONTRACTOR TO STORE IN SAFE PLACE. REFER TO PROPOSED PLAN FOR RELOCATED BFP.  |
| (17)                 | EXISTING ACCENT PORCELAIN / CERAMIC TILE ON TREADS AND RISERS TO REMAIN IN FORUM. CONTRACTOR TO PERFORM<br>DEEP CLEANING PROTOCOL ON GROUT AND TILE TO REFRESH APPEARANCE AND ORIGINAL COLOUR. REFER TO<br>SPECIFICATIONS.   |
| 18                   | REMOVE AND DISPOSE OF EXTERIOR WINDOW, FLASHING, FRAMING AND PLASTIC LAMINATE WINDOW SILL. TYPICAL. MAKE GOOD OPENING FOR NEW WINDOW. REFER TO WINDOW SCHEDULE FOR PROPOSED GLAZING. CONTRACTOR TO SITE MEASURE PRIOR TO FABRICATION OF NEW WINDOWS.   |
| (19)                 | EXISTING WINDOW COVERING TO BE CAREFULLY REMOVED AND SAFELY STORED ON SITE FOR RE-INSTALLATION. DAMAGE<br>WINDOW COVERINGS TO BE REPLACED WITH SIMILAR PRODUCT AND STYLE.  |
| 20>                  | REMOVE WOOD BLOCKING AT LOWER WINDOW PANE. COORDINATE CONDITIONS TO CONSULTANT TO REVIEW APPROPRIA<br>APROACH FOR INSTALLATION OF NEW WINDOW. SITE VERIFY CONDITIONS PRIOR TO FABRICATION.   |
| 21                   | EXISTING ALUMINUM COMPOSITE PANEL AND CAP FLASHING TO BE REMOVED AS WELL AS ANY SUBSTRATE, GIRTS, FASTE OR GLUE AND MAKE GOOD EXISTING CONC. BLOCK FOR NEW GIRTS AND ALUMINUM COMPOSITE PANEL REPLACEMENT.   |
| 22                   | REMOVE AND DISPOSE OF EXTERIOR GLASS BLOCK WINDOW INCLUDING FRAMING, FLASHING AND WINDOW SILL. MAKE GO<br>OPENING FOR NEW WINDOW.  |
| 23                   | EXISTING UNIT VENTILATOR GRILLES TO HAVE CONDENSATION DRAINAGE REROUTED TO LOWER UNIT DRAINAGE LOCATIO<br>REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS.  |
| 24                   | CONTRACTOR TO CLEAN BRICK FREE FROM SURFACE STAINS DUE TO EXISTING UNIT VENTILATOR CONDENSATION DRAIN/<br>BRICK APPEARANCE TO MEET BOARDS SATISFACTION. REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS.  |

## **SELECT DEMOLITION - SEPARATE PRICE**

| SP1 | REMOVE DOOR FOR NEW DOOR. REFER TO DOOR SCHEDULE. EXISTING HM FRAME TO F<br>CLEAN, SAND & PREPARE FOR NEW PAINT. REFER TO FINISH SCHEDULE AND SPEC. FOF<br>MATERIAL AND COLOUR. |
|-----|---|
| SP2 | REMOVE AND DISPOSE DAMAGED EXTERIOR HM DOOR AND FRAME. REFER TO DOOR SO MAKE GOOD OPENING FOR NEW HM DOOR AND FRAME.  |
| SP3 | EXISTING HM FRAME TO REMAIN. CLEAN, SAND & PREPARE FOR NEW PAINT.<br>REFER TO FINISH SCHEDULE AND SPEC.   |
|     |   |



2 EXISTING GYMNASIUM SCHOOL MURAL TO REMAIN A02 SCALE: 1:5





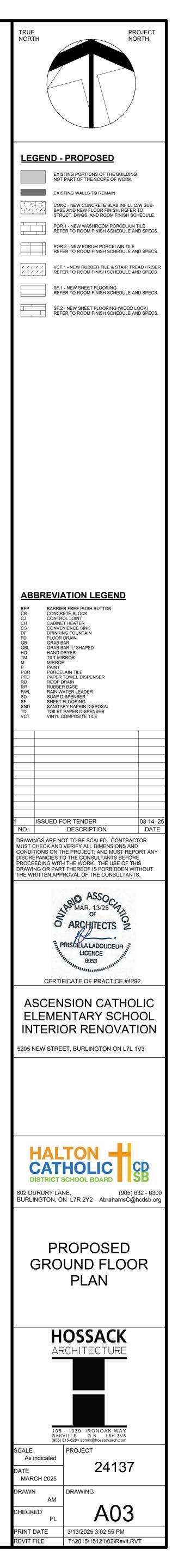
# **CONSTRUCTION NOTES**

|   | GENERA      | L CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION  |
|---|-------------|--|
|   | DRAWIN      | GS TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS.  |
|   | CONSTR      | CUTION NOTES TO BE READ IN CONJUNCTION WITH PROPOSED ELEVATIONS.   |
|   | WITHIN (    | CTOR TO REPAIR ALL EXISTING BLOCK WALLS AND PREPARE AND PAINT ALL EXISTING WALL<br>CONSTRUCTION AREA (INCLUDING EXITING CORRIDORS AFFECTED BY RENOVATION). SEE SP<br>ERIOR FINISH SCHEDULES.   |
|   | AND BAS     | CTOR TO REMOVE ALL EXISTING MILWORK TO ALLOW THE REMOVALS OF ALL EXISTING FLOO<br>SE FINISH AS REQUIRED. CONTRACTOR TO REINSTALL EXISTING MILLWORK ONCE NEW FLOO<br>RE INSTALLED.  |
|   |             | TOR TO COORDINATE OVERALL DOOR OPENINGS SHOWN ON THIS PLAN WITH REQUIRED DO<br>DTH AND JAMB DETAIL AS DESCRIBED IN DOORS SCHEDULE.   |
| 1 | 1           | NEW <u>SHEET FLOORING</u> COMPLETE WITH WALL AND MILLWORK BASE <u>IN ENTIRE ROOM</u> . FEA<br>FLOOR TO ENSURE SHEET FLOOR IS LEVEL AND TRANSITIONS SEAMLESSLY TO CORRIDOR A<br>ADJACENT ROOMS. APROXIMATELY 2m x 2m. REFER TO ROOM FINISH SCHEDULE AND<br>SPECIFICATIONS.  |
| 1 | 2           | NEW <u>RUBBER TILE</u> AT STAIRS, INCLUDING TREADS AND RISERS WITH WALL BASE. INSTALL N<br>TACTILE INDICATORS AT TOP OF LANDING. SITE MEASURE PRIOR TO FABRICATION.<br>REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS.   |
| 1 | 3           | NEW <u>PORCELAIN TILE</u> FLOORING COMPLETE WITH TILE WALL BASE. FEATHER FLOOR TO EN<br>TILE IS LEVEL AND TRANSITIONS SEAMLESSLY WITH CORRIDOR TERRAZZO. APPROX. 2m DE<br>REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS.  |
| 1 | 4           | NEW CERAMIC WALL TILE, GROUT, ETC, ON WALLS IN ENTIRE ROOM. REFER TO ROOM FINIS<br>SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND BASE.  |
| ł | 5           | SUPPLY AND INSTALL NEW WASHROOM ACCESSORIES AND FIXTURES INCLUDING MIRRORS<br>DISPENSERS, TOILET PAPER DISPENSER, SANITARY NAPKIN DISPOSAL AND HAND DRYERS.<br>TO ELECTRAL DRAWINGS.   |
| 1 | 6           | NEW FLOOR FINISH ON 150mm CONCRETE SLAB ON GRADE & COMPACTED GRANULAR SUB-<br>INFILL. OR NEW FLOOR FINISH ON 200mm REINFORCED CONC. SECOND FLOOR. TYPICAL FOR<br>AREAS SHOWN IN HATCH INDICATED. NEW CONCRETE SLAB TO BE SLOPED MIN. 1% TO FLOO<br>DRAINS WHERE APPLICABLE. REFER TO ROOM FINISH SCHEDULE FOR FLOOR FINISHES. REI<br>MECH. DWGS. AND SPECIFICATIONS. |
| ł | 7           | CONTRACTOR TO PATCH AND MAKE GOOD EXISTING WALL, SMOOTH EDGES AND MAKE BUL AT BOTH SIDES OF EXISTING BLOCK.  |
| ł | 8           | CONTRACTOR TO PRIME AND PAINT ENTIRE WALL (CORNER TO CORNER) TO MATCH EXISTIN  |
| ł | 9           | SCHOOL LOGO TO REMAIN. CONTRACTOR TO PAINT AROUND LOGO WITH CAUTION AND TOUTHE MURAL EDGES AS NEEDED TO THE BOARDS SATISFACTION.   |
| ł | 10          | CONTRACTOR TO PAINT GYMNASIUM CEILING AND STRUCTURAL BULKHEADS. CONTRACTOR<br>ENSURE WOOD GYMNASIUM FLOOR AND SCORE BOARD ARE ADEQUETLY COVERED AND<br>PROTECTED PRIOR TO PAINTING.  |
| ł | (11)        | SUPPLY AND INSTALL NEW LOCKERS. ALIGN WITH EXISTING BULKHEAD. ADD RUBBER BASE ALONG THE PERIMETER OF THE LOCKER BASE.  |
| 1 | (12)        | NEW CATHOLIC DISPLAY FEATURE WALL. REFER TO INTERIOR ELEVATION AND MILLWORK<br>DETAILS FOR ASSEMBLY, MATERIALS AND CONSTRUCTION. REFER TO SPECS FOR FINISH<br>MATERIALS AND BASE.  |
| ł | (13)        | SUPPLY AND INSTALL ELECTOMAGNETIC HOLD OPEN DEVICE. REFER TO ELEC. DWGS AND S  |
|   | <u>(14)</u> | INSTALL RELOCATED BARRIER-FREE PUSH BUTTON. REFER TO ELEC. DWGS.   |
| 1 | (15)        | SUPPLY AND INSTALL NEW WINDOWS. REFER TO WINDOW AND CURTAIN WALL SCHEDULE.<br>RE-INSTALL EXISTING WINDOW COVERINGS. PROVIDE PLASTIC LAMINATE WINDOW SILL IN<br>CLASSROOMS AND STAFF ROOMS  |

## **SELECT CONSTRUCTION - SEPARATE PRICE**

| SP1 | SUPPLY AND INSTALL NEW INTERIOR WOOD DOOR AND HARDWARE INTO EXISTING FRAME<br>TO DOOR SCHEDULE. GC TO SITE MEASURE EXISTING DOOR AND OPENING PRIOR TO FAB |
|-----|---|
| SP2 | SUPPLY AND INSTALL NEW EXTERIOR HM DOOR AND FRAMES CW/ HARDWARE.<br>REFER TO DOOR SCHEDULE.   |



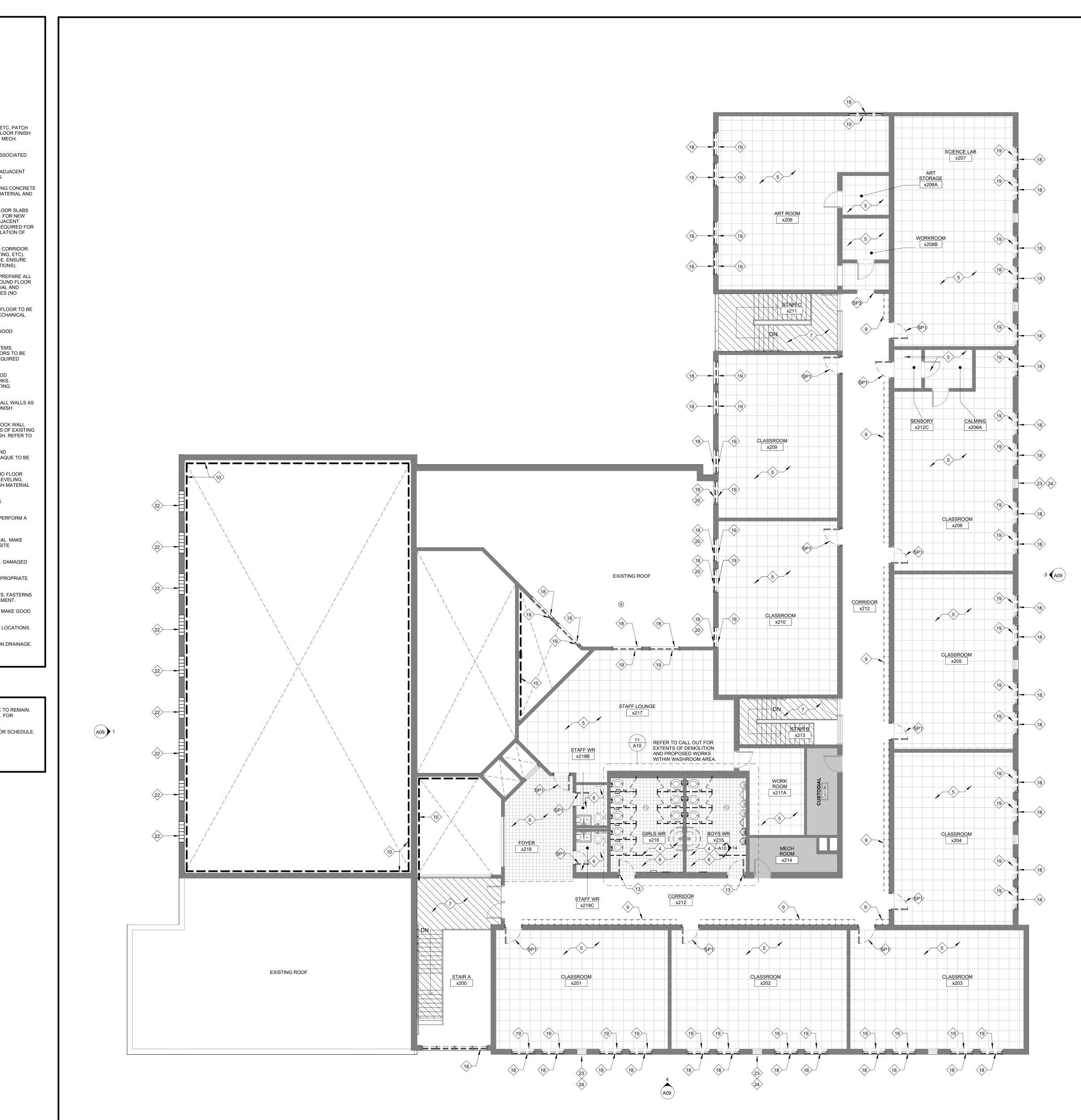


# **DEMOLITION PLAN NOTES**

|                          | LITION FLAN NOTES   |
|--------------------------|---|
| GC IS TO FIE             | ELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.  |
| DRAWINGS                 | ALS AND DEMOLITION TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL<br>PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE<br>AL, MECH. AND ELECT. DWGS.   |
|                          | ONTRACTOR TO REVIEW DOOR SCHEDULE AND FLOOR PLANS FOR EXTENT OF SANDING, FILLING<br>ITING EXISTING FRAMES TYP.  |
|                          | ONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AND ROOF ASSEMBLY AS PRIOR TO DEMOLITION/ CORING. SEE SPECIFICATIONS   |
| -                        | D AREAS TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION, REMOVAL OF ALL<br>TION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 01 74 11.  |
|                          | ONTRACTOR IS RESPONSIBLE TO REVIEW ASBESTOS REPORT IN SPECIFICATION FOR EXTENT OF<br>IATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEYS AND EXTENT OF ABATEMENT WORK.  |
|                          | REMOVE EXISTING WASHROOM PARTITIONS, HARDWARE, FASTENERS, TOILET PAPER DISPENSERS, GRAB BARS, ETC. PAT<br>AND MAKE GOOD ALL WALLS AS REQUIRED FOR NEW WALL FINISH. PREPARE EXISTING CONCRETE BLOCK AND FLOOR FIN<br>FOR NEW PARTITIONS AND INSTALLATION OF NEW FITMENTS. SEE SPEC AND PROPOSED FLOOR PLAN. REFER TO MECH.<br>DWGS.  |
| 2                        | CONTRACTOR TO REMOVE EXISTING TOILET, AND URINALS. CONTRACTOR TO HAND OVER TO OWNER. CAP ALL ASSOCIATE<br>PLUMBING AND PREPARE CONCRETE FLOOR FOR NEW FINISH. REFER TO MECHANICAL DRAWINGS.   |
| 3                        | CONTRACTOR TO REMOVE AND DISPOSE EXISTING BRADLEY, SINK, RECESSED BIN, HAND DRYER, MIRRORS AND ADJACEN<br>SOAP DISPENSERS, ETC PATCH AND MAKE GOOD ALL WALLS AS REQUIRED. REFER TO MECH. AND ELECT. DWGS.   |
| 4                        | REMOVE EXISTING <u>WALL TILE</u> , GROUT, MORTAR/MASTIC, ETC, ON WALLS <u>IN ENTIRE ROOM</u> . PREPARE ALL EXISTING COND<br>WALLS FOR NEW FINISH (INCLUDING PATCHING, ETC). REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL<br>BASE.   |
| 5                        | REMOVE EXISTING <u>FLOORING</u> , GLUE, BASEBOARD, ETC, <u>IN ENTIRE ROOM</u> . PREPARE ALL EXISTING CONCRETE FLOOR SLA<br>FOR NEW FINISH (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC). REFER TO FINISH SCHEDULE AND SPEC. FOR NEY<br>FINISH MATERIAL AND BASE. ENSURE NEW FLOOR FINISH IS LEVEL / SEAMLESS IN HEIGHT BETWEEN EXISTING ADJACENT<br>FLOOR FINISHES (NO TRNASITIONS). CONTRACTOR TO REMOVE EXISTING MILLWORK, BENCHES & SHELVING AS REQUIRED<br>THE DEMOLITION OF EXISTING FLOORING. CONTRACTOR TO STORE IN SAFE PLACE AND REINSTALL UPON INSTALLATION OF<br>NEW FLOORING. |
| 6                        | REMOVE EXISTING <u>CERAMIC TILE</u> , MASTIC AND MORTAR BED, INCLUDING BASEBOARDS, ETC, IN WASHROOM AND CORRID<br>PREPARE ALL EXISTING CONCRETE FLOOR SLABS FOR NEW FINISH (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC<br>REFER TO DRAWING FOR EXTENTS. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND BASE. ENSUF<br>NEW FLOOR FINISH IS LEVEL / SEAMLESS IN HEIGHT BETWEEN EXISTING ADJACENT FLOOR FINISHES (NO TRNASITIONS).  |
| $\langle \gamma \rangle$ | REMOVE EXISTING <u>VCT AND RUBBER TILE</u> , GLUE, BASEBOARD, ETC, IN STAIRS INCLUDING RISERS AND TREADS. PREPARE<br>EXISTING CONCRETE FOR NEW FINISH (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC). FLOORING ON GROUND FLO<br>TO REMAIN. REFER TO DRAWING FOR EXTENTS. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND<br>BASE. ENSURE NEW FLOOR FINISH IS LEVEL / SEAMLESS IN HEIGHT BETWEEN EXISTING ADJACENT FLOOR FINISHES (NO<br>TRNASITIONS).   |
| 8                        | EXISTING 150mm CONCRETE SLAB ON GRADE AND GRANULAR SUBBASE OR 200mm REINFORCED CONC. SECOND FLOOR T<br>CUT AS REQUIRED TO SUIT PLUMBING WORK. TYPICAL FOR ALL AREA SHOWN IN HATCH INDICATED. REFER TO MECHANICA<br>DRAWINGS. EXACT EXTENT TO BE CONFIRMED ON SITE.  |
| 9>                       | CONTRACTOR TO REMOVE EXISTING LOCKER BANKS, EXISTING CONCRETE BASE TO REMAIN. PATCH AND MAKE GOOD EXISTING WALL, BULKHEAD AND FLOOR AS REQUIRED FOR THE INSTALLATION OF NEW LOCKERS.  |
|                          | CONTRACTOR TO PATCH WALL, PRIME AND REPAINT. CONTRACTOR TO REMOVE ALL WALL SURFACE MOUNTED ITEMS,<br>DEVICES, CAGES, FACE PLATES, FIXTURES AND ETC. AS REQUIRED TO COMPLETE PAINTING. GRILLS AND RADIATORS TO E<br>PAINTED TO MATCH. GYMNASIUM WALL MURAL TO REMAIN. CONTRACTOR TO REMOVE LIBRARY MILLWORK AS REQUIRED<br>PRIOR TO PAINTING AND REINSTALL. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH.   |
|                          | GYMNASIUM CEILING AND STRUCTURAL BULKHEADS TO BE PRIMED AND PAINTED. CONTRACTOR TO ENSURE WOOD<br>GYMNASIUM FLOOR AND SCORE BOARD IS ADEQUETLY COVERED AND PROTECTED DURING CONSTRUCTION WORKS.<br>CONTRACTOR TO REMOVE AND STORE WALL MATS IN SAFE PLACE AND REINSTALL AFTER COMPLETION OF PAINTING.<br>CONTRACTOR TO COORDINATE LIGHTING UPGRADE WITH ELECTRICAL DRAWINGS.  |
| 12                       | CONTRACTOR TO REMOVE WALL MOUNTED ART, INCLUDING ANY GLUE OR FASTENERS. PATCH AND MAKE GOOD ALL WALI<br>REQUIRED. PRIME AND PAINT WALL SURFACE AS REQUIRED. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH<br>MATERIAL AND BASE.   |
|                          | REMOVE EXISTING HM DOOR ASSEMBLY, HARDWARE AND HM FRAME AT WASHROOMS. LINTEL AND ADJACENT BLOCK WAL<br>ABOVE TO REMAIN. PATCH AND MAKE GOOD EXISTING WALL AND SMOOTH EDGES INTO BULLNOSE AT BOTH SIDES OF EXIS<br>BLOCK. REMOVE TERRAZO BASE EXTENDING INTO DOOR OPENING TO BE REPLACED BY WASHROOM FLOOR FINISH. REFEI<br>ROOM FINISH SCHEDULE.  |
| 14                       | REMOVE EXISTING METAL STUD WALL, ALONG WITH WALL TILES, MASTIC, GROUT AND ALL MILLWORK FINISHES AND ELECTRICAL CONDUITS COMPLETELY FOR NEW INTERIOR MILLWORK FITMENTS. EXISTING STUDENT SUCCESS PLAQUE TO REMOVED AND RELOCATED. REFER TO INTERIOR ELEVATIONS.  |
| 15                       | REMOVE EXISTING <u>TERRAZZO</u> , MORTAR BED, ETC, TO NEAREST FULL ALUMINUM JOINT IN FORUM, REFER TO DEMO FLOOF<br>PLAN FOR EXTENTS. PREPARE ALL EXISTING CONCRETE FLOOR SLABS FOR NEW FINISH (INCLUDING PATCHING, LEVELING<br>SKIM-COATING, ETC). REFER TO DRAWING FOR EXTENTS. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATEF<br>AND BASE.   |
| 16                       | REMOVE EXISTING BARRIER FREE PUSH BUTTON AND ASSOCIATED CONDUIT AND WIRING. REFER TO ELEC DWGS.<br>CONTRACTOR TO STORE IN SAFE PLACE. REFER TO PROPOSED PLAN FOR RELOCATED BFP.   |
| (17)                     | EXISTING ACCENT PORCELAIN / CERAMIC TILE ON TREADS AND RISERS TO REMAIN IN FORUM. CONTRACTOR TO PERFORM<br>DEEP CLEANING PROTOCOL ON GROUT AND TILE TO REFRESH APPEARANCE AND ORIGINAL COLOUR. REFER TO<br>SPECIFICATIONS.  |
| 18                       | REMOVE AND DISPOSE OF EXTERIOR WINDOW, FLASHING, FRAMING AND PLASTIC LAMINATE WINDOW SILL. TYPICAL. MAKE<br>GOOD OPENING FOR NEW WINDOW. REFER TO WINDOW SCHEDULE FOR PROPOSED GLAZING. CONTRACTOR TO SITE<br>MEASURE PRIOR TO FABRICATION OF NEW WINDOWS.  |
| 19                       | EXISTING WINDOW COVERING TO BE CAREFULLY REMOVED AND SAFELY STORED ON SITE FOR RE-INSTALLATION. DAMAGI<br>WINDOW COVERINGS TO BE REPLACED WITH SIMILAR PRODUCT AND STYLE.   |
| 20>                      | REMOVE WOOD BLOCKING AT LOWER WINDOW PANE. COORDINATE CONDITIONS TO CONSULTANT TO REVIEW APPROPRIA<br>APROACH FOR INSTALLATION OF NEW WINDOW. SITE VERIFY CONDITIONS PRIOR TO FABRICATION.  |
| 21>                      | EXISTING ALUMINUM COMPOSITE PANEL AND CAP FLASHING TO BE REMOVED AS WELL AS ANY SUBSTRATE, GIRTS, FASTE OR GLUE AND MAKE GOOD EXISTING CONC. BLOCK FOR NEW GIRTS AND ALUMINUM COMPOSITE PANEL REPLACEMENT.  |
| 22                       | REMOVE AND DISPOSE OF EXTERIOR GLASS BLOCK WINDOW INCLUDING FRAMING, FLASHING AND WINDOW SILL. MAKE GO<br>OPENING FOR NEW WINDOW.   |
| 23                       | EXISTING UNIT VENTILATOR GRILLES TO HAVE CONDENSATION DRAINAGE REROUTED TO LOWER UNIT DRAINAGE LOCATIO<br>REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS.   |
| 24                       | CONTRACTOR TO CLEAN BRICK FREE FROM SURFACE STAINS DUE TO EXISTING UNIT VENTILATOR CONDENSATION DRAIN/<br>BRICK APPEARANCE TO MEET BOARDS SATISFACTION. REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS.   |
|                          |   |

# **SELECT DEMOLITION - SEPARATE PRICE**

| SP1)        | REMOVE DOOR FOR NEW DOOR. REFER TO DOOR SCHEDULE. EXISTING HM FRAME TO R<br>CLEAN, SAND & PREPARE FOR NEW PAINT. REFER TO FINISH SCHEDULE AND SPEC. FOR<br>MATERIAL AND COLOUR. |
|-------------|---|
| SP2         | REMOVE AND DISPOSE DAMAGED EXTERIOR HM DOOR AND FRAME. REFER TO DOOR SC<br>MAKE GOOD OPENING FOR NEW HM DOOR AND FRAME.   |
| <b>\$P3</b> | EXISTING HM FRAME TO REMAIN. CLEAN, SAND & PREPARE FOR NEW PAINT.<br>REFER TO FINISH SCHEDULE AND SPEC.   |



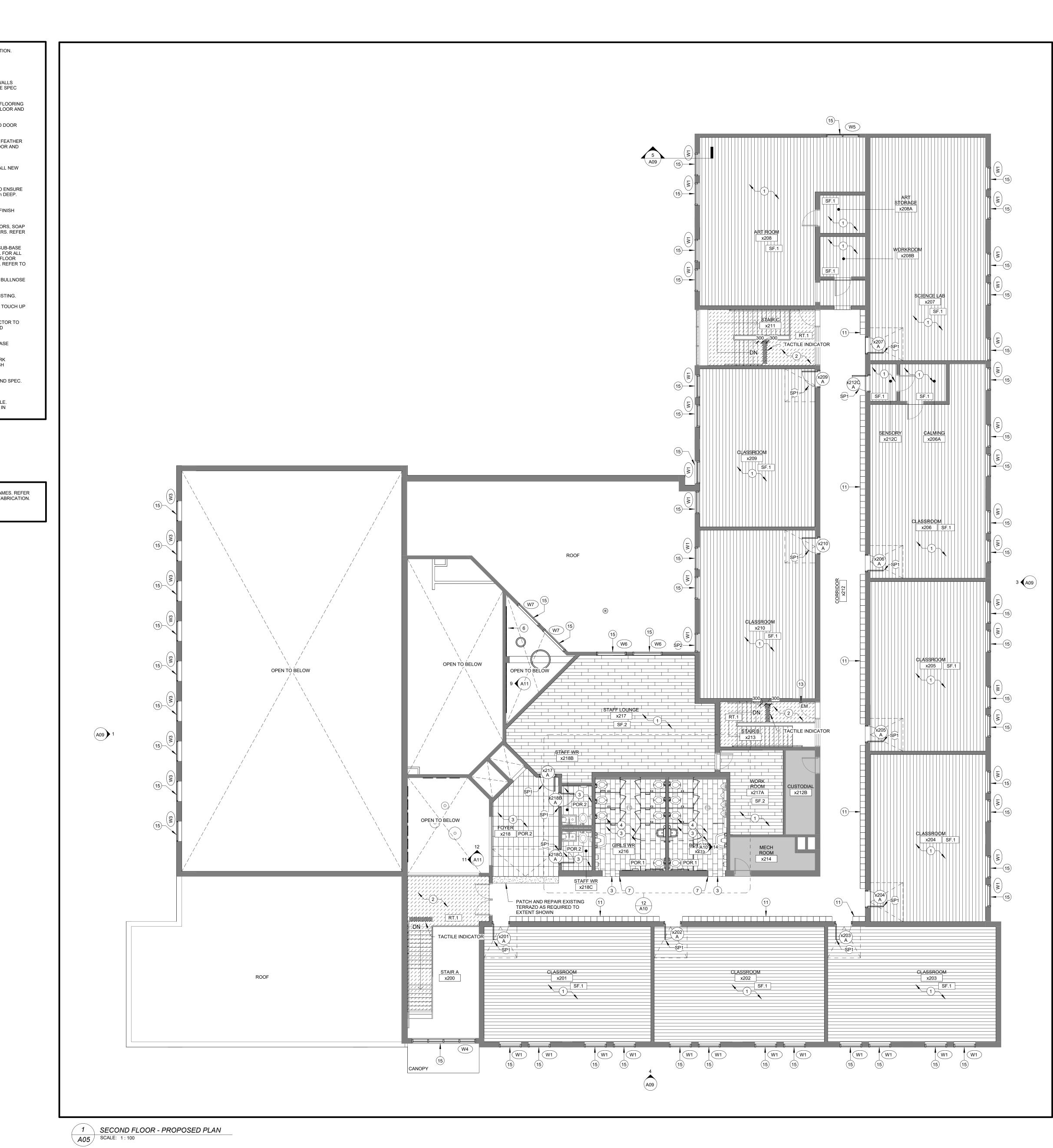


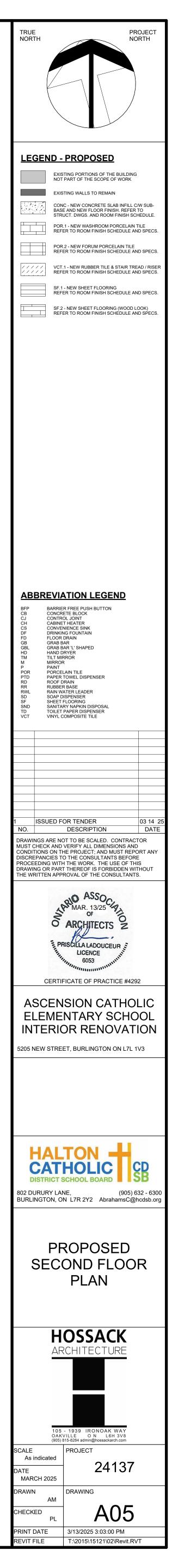
# **CONSTRUCTION NOTES**

| GENER/ | AL CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION   |
|--------|--|
| DRAWIN | IGS TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS.   |
| CONSTR | RCUTION NOTES TO BE READ IN CONJUNCTION WITH PROPOSED ELEVATIONS.  |
| WITHIN | ACTOR TO REPAIR ALL EXISTING BLOCK WALLS AND PREPARE AND PAINT ALL EXISTING WALLS<br>CONSTRUCTION AREA (INCLUDING EXITING CORRIDORS AFFECTED BY RENOVATION). SEE SPI<br>"ERIOR FINISH SCHEDULES.   |
| AND BA | ACTOR TO REMOVE ALL EXISTING MILWORK TO ALLOW THE REMOVALS OF ALL EXISTING FLOC<br>SE FINISH AS REQUIRED. CONTRACTOR TO REINSTALL EXISTING MILLWORK ONCE NEW FLOOI<br>RE INSTALLED.  |
|        | ATOR TO COORDINATE OVERALL DOOR OPENINGS SHOWN ON THIS PLAN WITH REQUIRED DOO<br>IDTH AND JAMB DETAIL AS DESCRIBED IN DOORS SCHEDULE.  |
| 1      | NEW <u>SHEET FLOORING</u> COMPLETE WITH WALL AND MILLWORK BASE <u>IN ENTIRE ROOM</u> . FEAT<br>FLOOR TO ENSURE SHEET FLOOR IS LEVEL AND TRANSITIONS SEAMLESSLY TO CORRIDOR A<br>ADJACENT ROOMS. APROXIMATELY 2m x 2m. REFER TO ROOM FINISH SCHEDULE AND<br>SPECIFICATIONS.   |
| 2      | NEW <u>RUBBER TILE</u> AT STAIRS, INCLUDING TREADS AND RISERS WITH WALL BASE. INSTALL N<br>TACTILE INDICATORS AT TOP OF LANDING. SITE MEASURE PRIOR TO FABRICATION.<br>REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS.   |
| 3      | NEW <u>PORCELAIN TILE</u> FLOORING COMPLETE WITH TILE WALL BASE. FEATHER FLOOR TO EN<br>TILE IS LEVEL AND TRANSITIONS SEAMLESSLY WITH CORRIDOR TERRAZZO. APPROX. 2m DEE<br>REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS.   |
| 4      | NEW CERAMIC WALL TILE, GROUT, ETC, ON WALLS IN ENTIRE ROOM. REFER TO ROOM FINIS SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND BASE.   |
| 5      | SUPPLY AND INSTALL NEW WASHROOM ACCESSORIES AND FIXTURES INCLUDING MIRRORS,<br>DISPENSERS, TOILET PAPER DISPENSER, SANITARY NAPKIN DISPOSAL AND HAND DRYERS. F<br>TO ELECTRAL DRAWINGS.  |
| 6      | NEW FLOOR FINISH ON 150mm CONCRETE SLAB ON GRADE & COMPACTED GRANULAR SUB-<br>INFILL. OR NEW FLOOR FINISH ON 200mm REINFORCED CONC. SECOND FLOOR. TYPICAL FOR<br>AREAS SHOWN IN HATCH INDICATED. NEW CONCRETE SLAB TO BE SLOPED MIN. 1% TO FLOO<br>DRAINS WHERE APPLICABLE. REFER TO ROOM FINISH SCHEDULE FOR FLOOR FINISHES. REF<br>MECH. DWGS. AND SPECIFICATIONS. |
| 7      | CONTRACTOR TO PATCH AND MAKE GOOD EXISTING WALL, SMOOTH EDGES AND MAKE BULL<br>AT BOTH SIDES OF EXISTING BLOCK.  |
| (8)    | CONTRACTOR TO PRIME AND PAINT ENTIRE WALL (CORNER TO CORNER) TO MATCH EXISTIN  |
| 9      | SCHOOL LOGO TO REMAIN. CONTRACTOR TO PAINT AROUND LOGO WITH CAUTION AND TOU THE MURAL EDGES AS NEEDED TO THE BOARDS SATISFACTION.  |
| (10)   | CONTRACTOR TO PAINT GYMNASIUM CEILING AND STRUCTURAL BULKHEADS. CONTRACTOR<br>ENSURE WOOD GYMNASIUM FLOOR AND SCORE BOARD ARE ADEQUETLY COVERED AND<br>PROTECTED PRIOR TO PAINTING.  |
| (11)   | SUPPLY AND INSTALL NEW LOCKERS. ALIGN WITH EXISTING BULKHEAD. ADD RUBBER BASE ALONG THE PERIMETER OF THE LOCKER BASE.  |
| (12)   | NEW CATHOLIC DISPLAY FEATURE WALL. REFER TO INTERIOR ELEVATION AND MILLWORK<br>DETAILS FOR ASSEMBLY, MATERIALS AND CONSTRUCTION. REFER TO SPECS FOR FINISH<br>MATERIALS AND BASE.  |
| (13)   | SUPPLY AND INSTALL ELECTOMAGNETIC HOLD OPEN DEVICE. REFER TO ELEC. DWGS AND S  |
| (14)   | INSTALL RELOCATED BARRIER-FREE PUSH BUTTON. REFER TO ELEC. DWGS.   |
| (15)   | SUPPLY AND INSTALL NEW WINDOWS. REFER TO WINDOW AND CURTAIN WALL SCHEDULE.<br>RE-INSTALL EXISTING WINDOW COVERINGS. PROVIDE PLASTIC LAMINATE WINDOW SILL IN<br>CLASSROOMS AND STAFF ROOMS  |

# **SELECT CONSTRUCTION - SEPARATE PRICE**

| SP1 | SUPPLY AND INSTALL NEW INTERIOR WOOD DOOR AND HARDWARE INTO EXISTING FRAMES<br>TO DOOR SCHEDULE. GC TO SITE MEASURE EXISTING DOOR AND OPENING PRIOR TO FABR |
|-----|---|
| SP2 | SUPPLY AND INSTALL NEW EXTERIOR HM DOOR AND FRAMES CW/ HARDWARE.<br>REFER TO DOOR SCHEDULE.   |



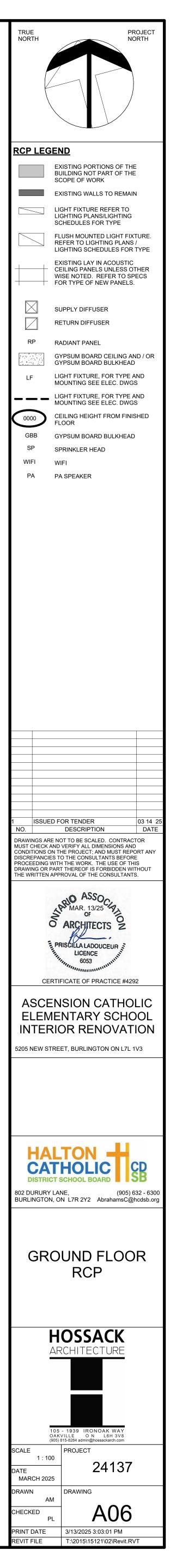






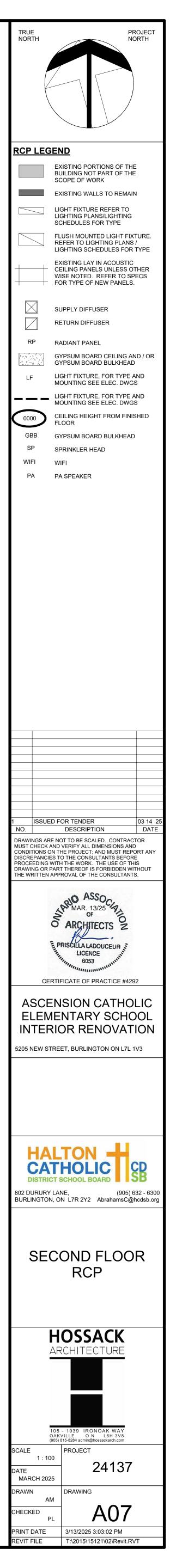


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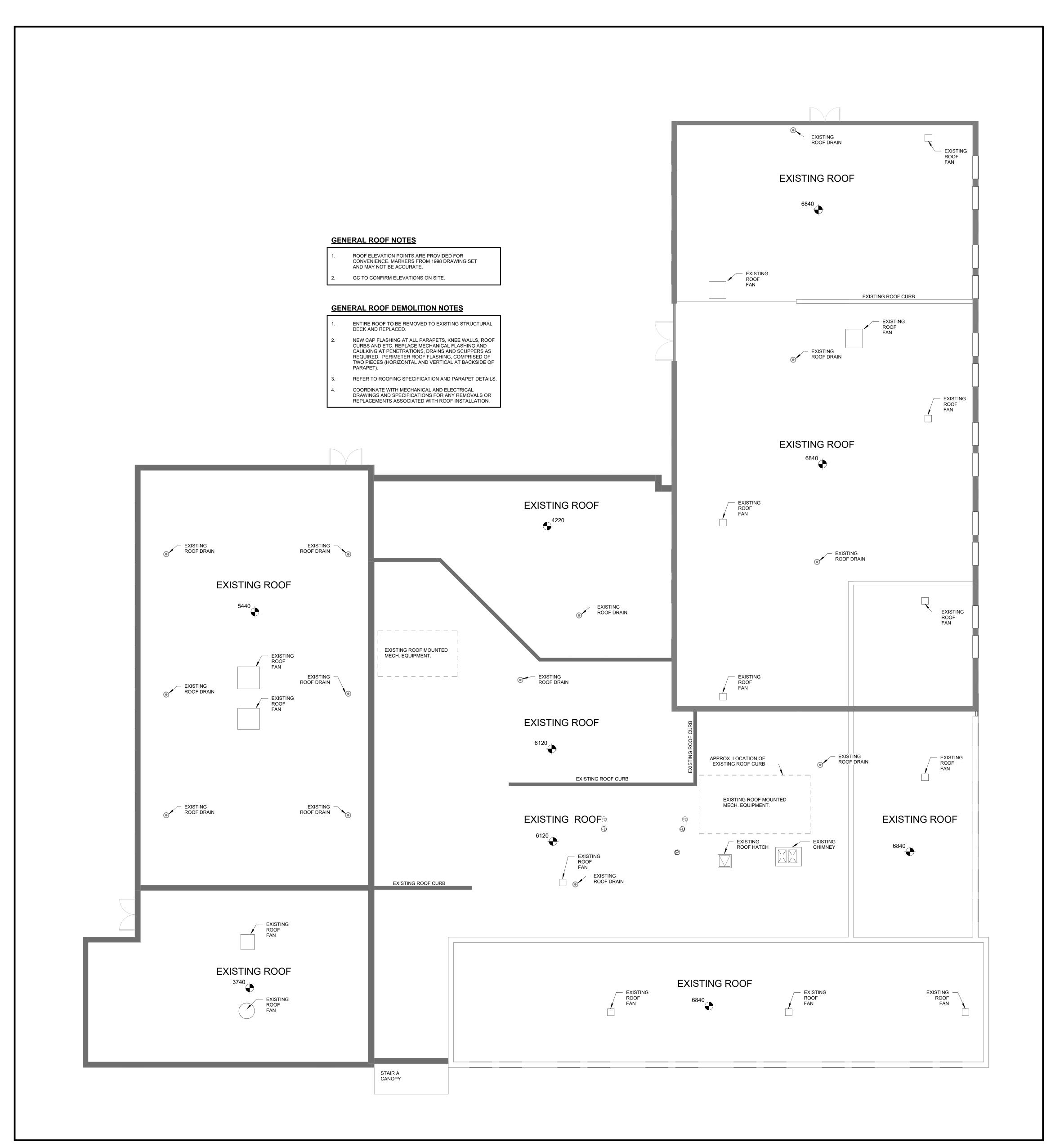




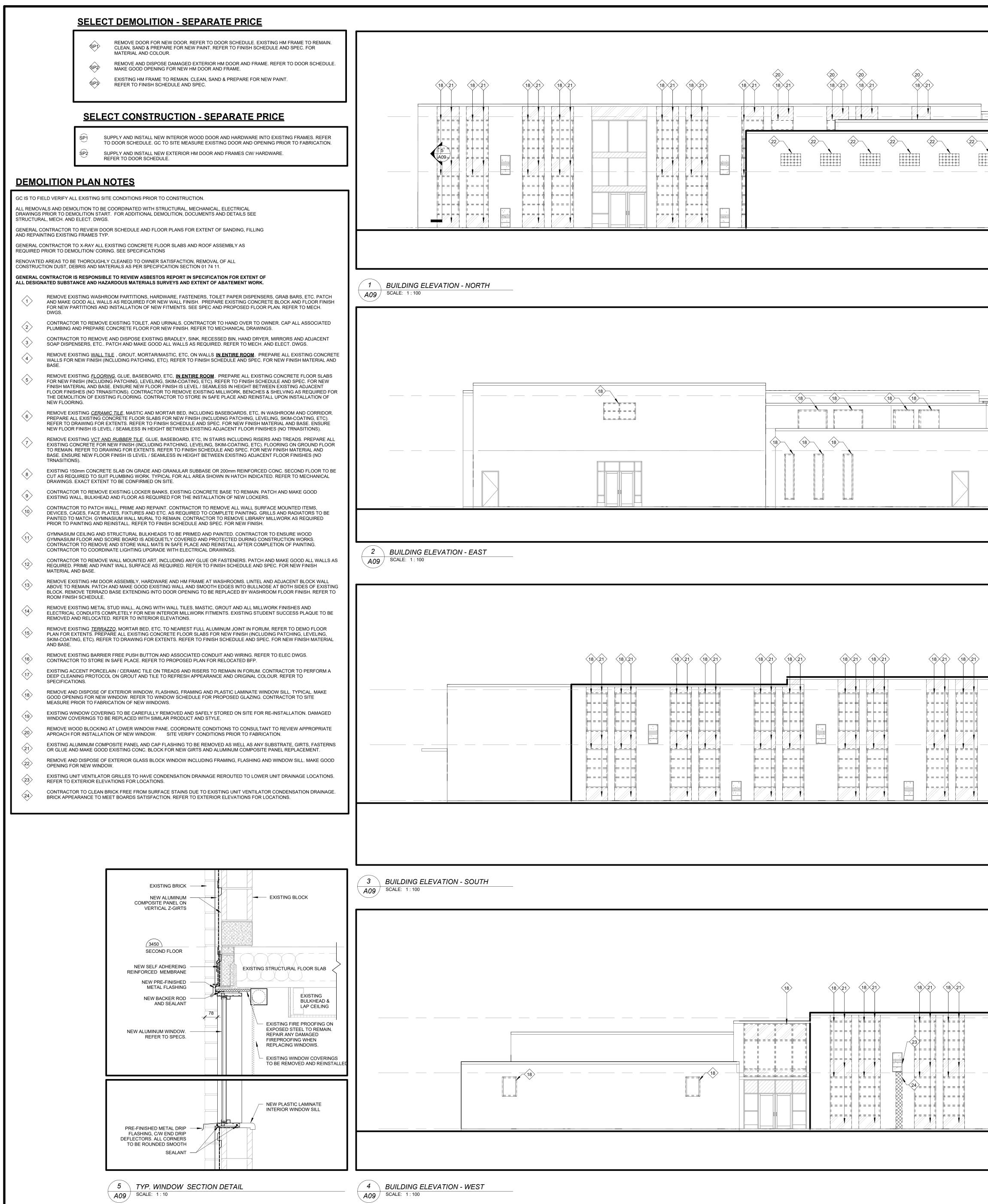












| (6840)<br>T/O EX. ROOF |      |                                       |  | 22 |
|------------------------|------|---------------------------------------|--|----|
|                        |      |                                       |  |    |
| 0<br>GROUND FLOOR      |      |                                       |  |    |
|                        |      |                                       |  |    |
|                        |      |                                       |  |    |
|                        |      |                                       |  |    |
| T/O EX. ROOF           |      |                                       |  |    |
|                        |      |                                       |  |    |
| GROUND FLOOR           |      |                                       |  |    |
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|                        |      |                                       |  |    |
| 34.<br>SECOND FLC      |      |                                       |  |    |
| GROUND FLC             |      |                                       |  |    |
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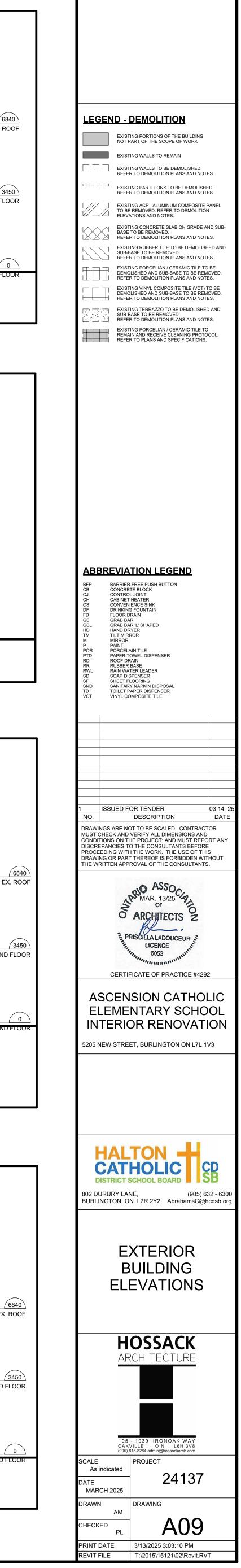
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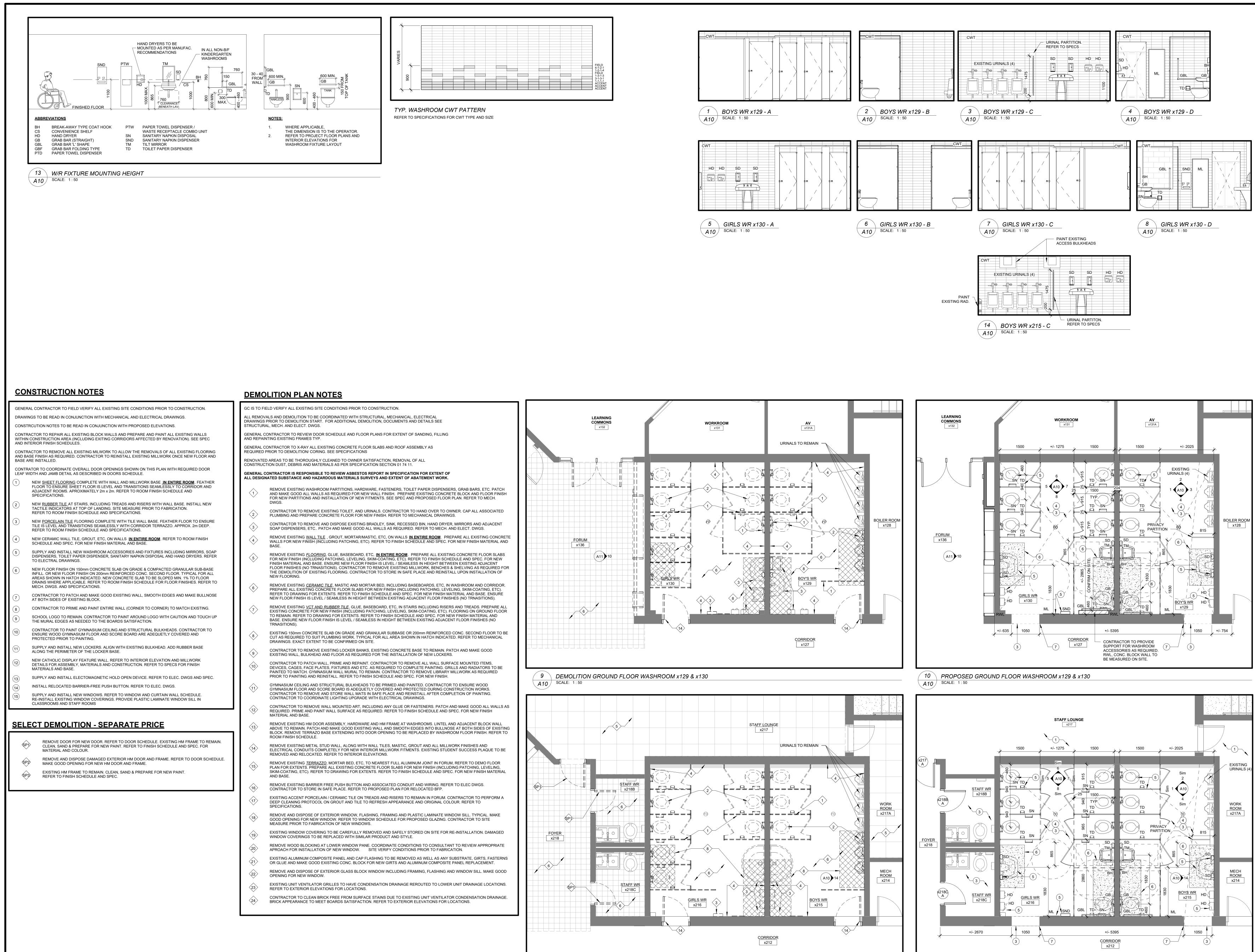
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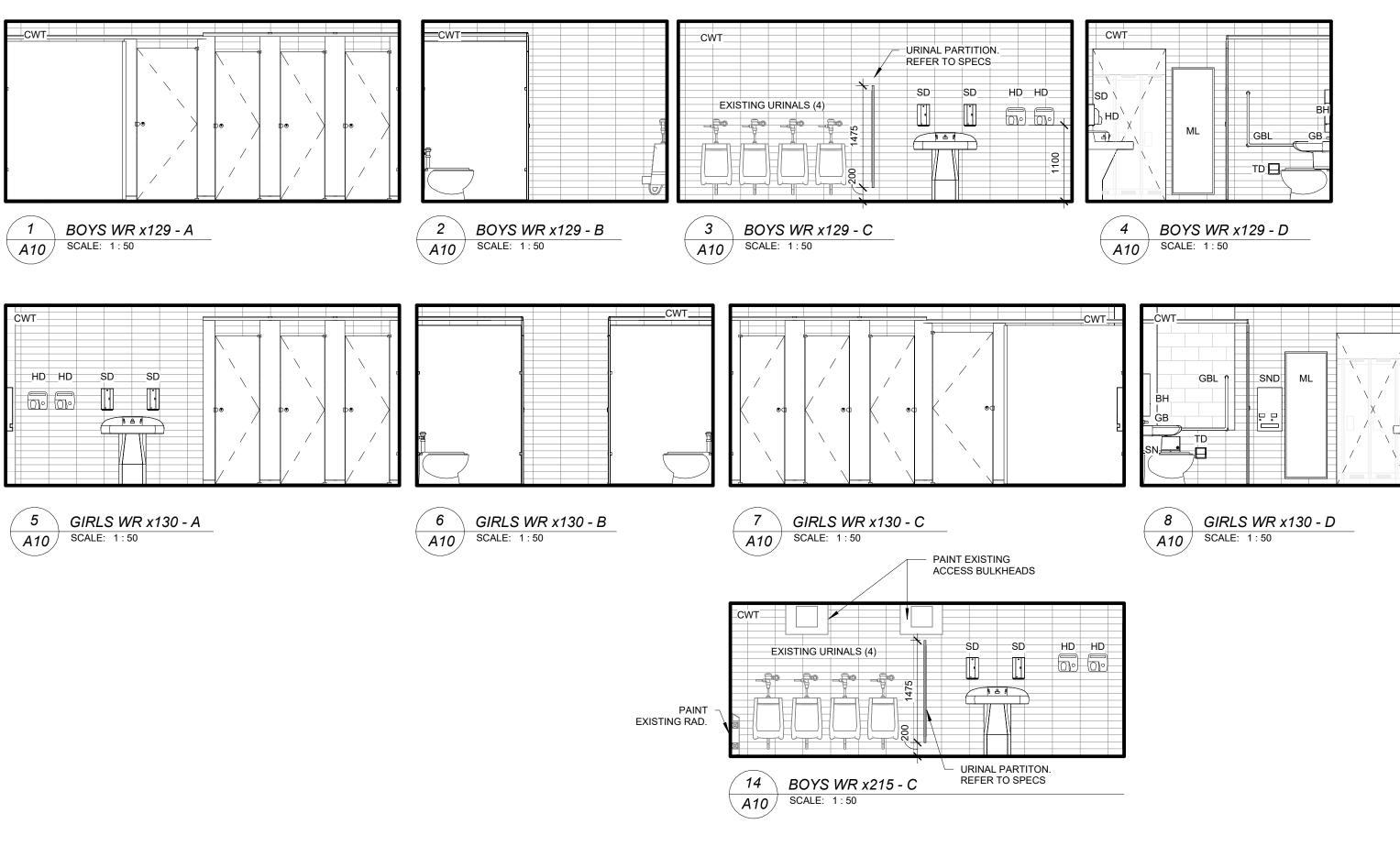
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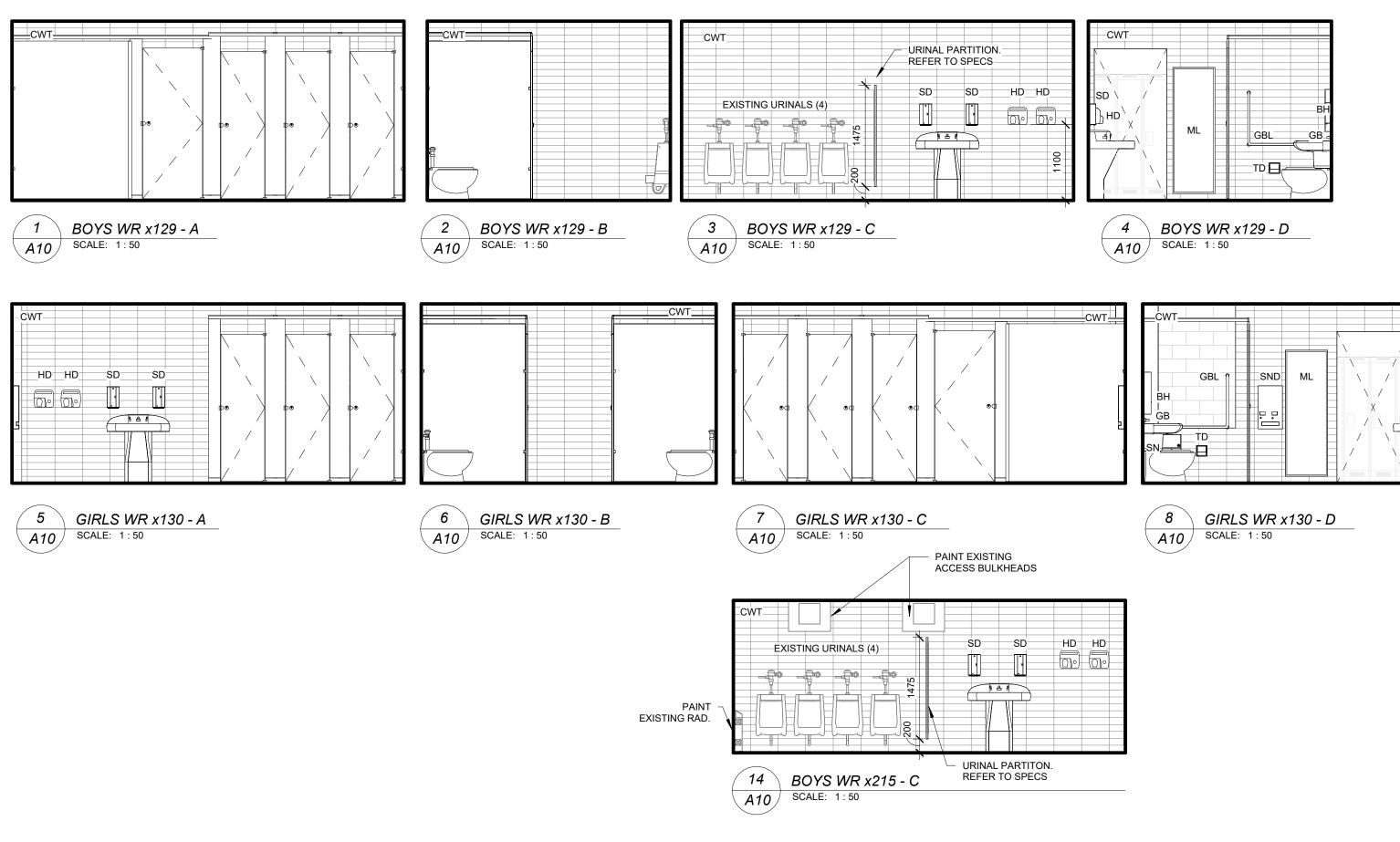
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(11) DEMOLITION SECOND FLOOR WASHROOM x210B, x210C, x215 & x216 A10 SCALE: 1:50

12 PROPOSED SECOND FLOOR WASHROOM x210B, x210C, x215 & x216 A10 SCALE: 1:50

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| <b>LEGEN</b>  | <u>D</u>   |
|---|--|
|   | EXISTING PORTIONS OF THE BUILDING<br>NOT PART OF THE SCOPE OF WORK   |
|   | EXISTING WALLS TO REMAIN   |
|   | EXISTING WALLS TO BE DEMOLISHED.<br>REFER TO DEMOLITION PLANS AND NOTES  |
|   | EXISTING PARTITIONS TO BE DEMOLISHED.<br>REFER TO DEMOLITION PLANS AND NOTES   |
|   | EXISTING ALUMINUM COMPOSITE PANEL.   |
|   | EXISTING CONCRETE SLAB ON GRADE AND SUB-<br>BASE TO BE REMOVED.<br>REFER TO DEMOLITION PLANS AND NOTES.  |
|   | EXISTING RUBBER TILE TO BE DEMOLISHED AND<br>SUB-BASE TO BE REMOVED.<br>REFER TO DEMOLITION PLANS AND NOTES.   |
|   | EXISTING PORCELAIN TILE TO BE DEMOLISHED<br>AND SUB-BASE TO BE REMOVED.<br>REFER TO DEMOLITION PLANS AND NOTES.  |
|   | EXISTING VINYL COMPOSITE TILE (VCT) TO BE<br>DEMOLISHED AND SUB-BASE TO BE REMOVED.<br>REFER TO DEMOLITION PLANS AND NOTES.  |
|   | EXISTING TERRAZZO TO BE DEMOLISHED AND<br>SUB-BASE TO BE REMOVED.<br>REFER TO DEMOLITION PLANS AND NOTES.  |
|   | CONC - NEW CONCRETE SLAB INFILL C/W SUB-<br>BASE AND NEW FLOOR FINISH. REFER TO<br>STRUCT. DWGS. AND ROOM FINISH SCHEDULE.   |
|   | POR.1 - NEW WASHROOM PORCELAIN TILE<br>REFER TO ROOM FINISH SCHEDULE AND SPECS.  |
|   | POR.2 - NEW CORRIDOR PORCELAIN TILE<br>REFER TO ROOM FINISH SCHEDULE AND SPECS.  |
|   | VCT.1 - NEW VINYL COMPOSITE TILE<br>REFER TO ROOM FINISH SCHEDULE AND SPECS.   |
|   | SF.1 - NEW SHEET FLOORING<br>REFER TO ROOM FINISH SCHEDULE AND SPECS.  |
|   | SF.2 - NEW SHEET FLOORING (WOOD LOOK)<br>REFER TO ROOM FINISH SCHEDULE AND SPECS.  |
|   |  |
|   | EVIATION LEGEND<br>REAK-AWAY TYPE COAT HOOK  |
| BFP<br>CCCCCC<br>CCCCC<br>DF<br>CCCCCC<br>DF<br>CCCCCC<br>DF<br>F<br>CCCCCCC<br>DF<br>F<br>CCCCCCC<br>DF<br>F<br>CCCCCCCC | REAK-AWAY TYPE COAT HOOK<br>ARRIER FREE PUSH BUTTON<br>ONCRETE BLOCK<br>ONTROL JOINT<br>ABINET HEATER<br>ONVENIENCE SINK<br>RINKING FOUNTAIN<br>LOOR DRAIN<br>RAB BAR 'L' SHAPED<br>AND DRYVER<br>ILT MIRROR<br>ILT MIRROR<br>IIRROR<br>AINT<br>ORCELAIN TILE<br>APER TOWEL DISPENSER<br>OOF DRAIN<br>UBBER BASE<br>AIN WATER LEADER<br>OOF DRAIN<br>UBBER BASE<br>AIN WATER LEADER<br>MET FLOORING<br>ANITARY NAPKIN DISPOSAL<br>OILET PAPER DISPENSER<br>INYL COMPOSITE TILE |

ISSUED FOR TENDER

DESCRIPTION DA. AWINGS ARE NOT TO BE SCALED. CONTRACTOR JST CHECK AND VERIFY ALL DIMENSIONS AND NDITIONS ON THE PROJECT; AND MUST REPORT AN CREPANCIES TO THE CONSULTANTS BEFORE ROCEEDING WITH THE WORK. THE USE OF THIS

AWING OR PART THEREOF IS FORBIDDEN WITHOUT

HE WRITTEN APPROVAL OF THE CONSULTANTS.

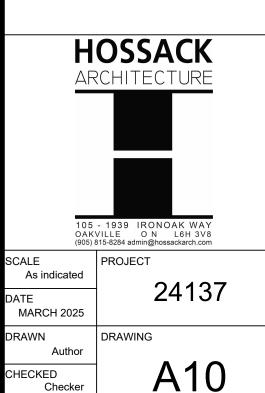


ASCENSION CATHOLIC ELEMENTARY SCHOOL INTERIOR RENOVATION

5205 NEW STREET, BURLINGTON ON L7L 1V3



ENLARGED WASHROOMS



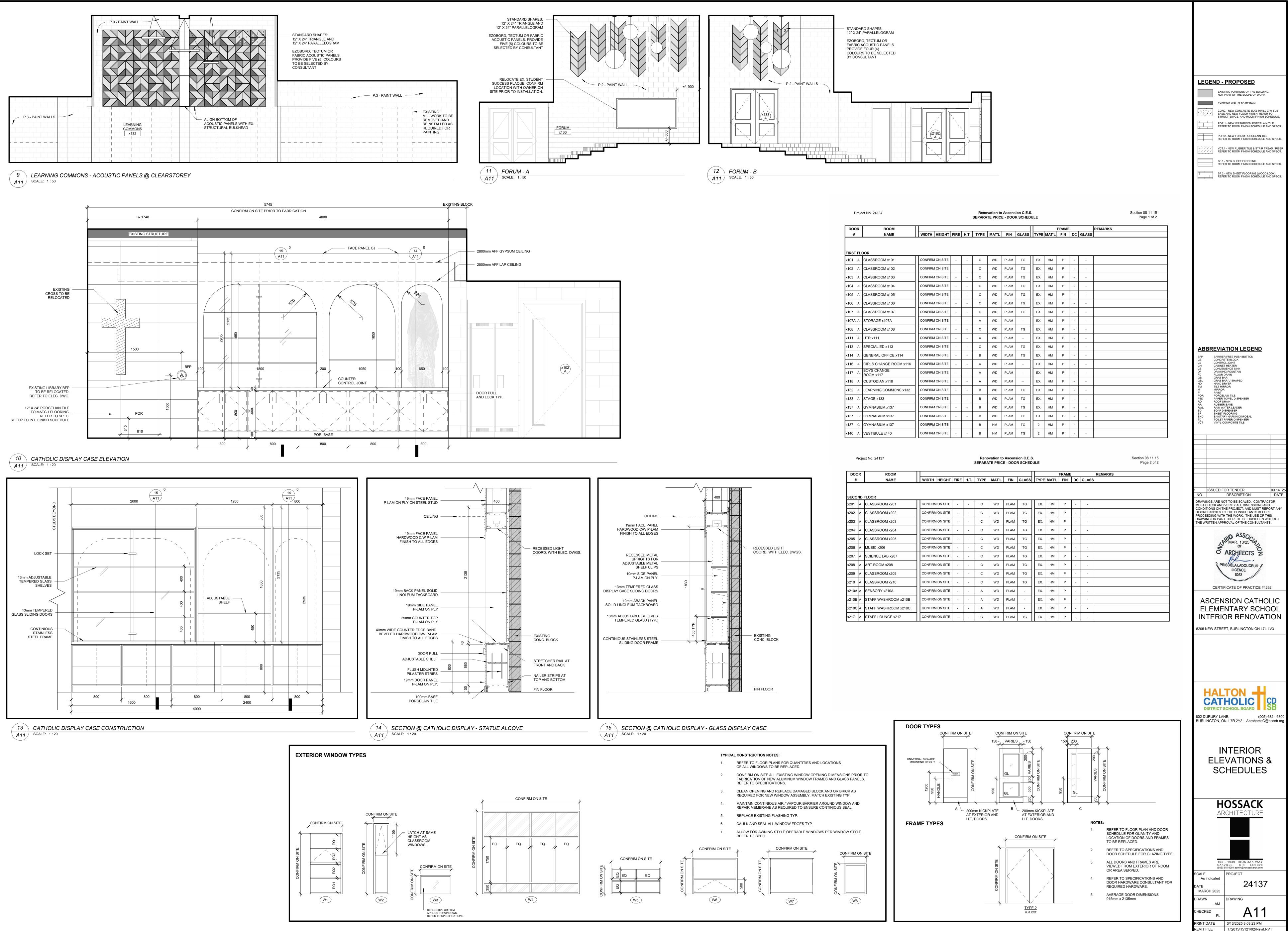
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| Proje         | ct No. 24137             | Renovation to Ascension C.E.S.<br>SEPARATE PRICE - DOOR SCHEDULE |      |      |      |       |      |       |     |         |       |   |       | S       | Section 08 11 15<br>Page 1 of 2 |
|---------------|--------------------------|--|------|------|------|-------|------|-------|-----|---------|-------|---|-------|---------|---------------------------------|
| DOOR          | ROOM                     |  |      |      |      |       |      |       |     |         | FRAME |   |       | REMARKS |                                 |
| #             | NAME                     | WIDTH HEIGHT   | FIRE | Н.Т. | TYPE | MAT'L | FIN  | GLASS | ТҮР | E MAT'L | 1     | - | GLASS |         |                                 |
| FIRST FLC     | DOR                      |  |      |      |      | -     |      |       |     |         | _     |   |       | -       |                                 |
| <101 A        | CLASSROOM x101           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <102 A        | CLASSROOM x102           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | НМ      | Р     | - | -     |         |                                 |
| <103 A        | CLASSROOM x103           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | НМ      | Р     | - | -     |         |                                 |
| <104 A        | CLASSROOM x104           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | НМ      | Р     | - | -     |         |                                 |
| <105 A        | CLASSROOM x105           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <106 A        | CLASSROOM x106           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <107 A        | CLASSROOM x107           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <107A A       | STORAGE x107A            | CONFIRM ON SITE  | -    | -    | A    | WD    | PLAM | -     | EX. | нм      | Р     | - | -     |         |                                 |
| <108 A        | CLASSROOM x108           | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <111 A        | UTR x111                 | CONFIRM ON SITE  | -    | -    | A    | WD    | PLAM | -     | EX. | нм      | Р     | - | -     |         |                                 |
| <113 A        | SPECIAL ED x113          | CONFIRM ON SITE  | -    | -    | с    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <114 A        | GENERAL OFFICE x114      | CONFIRM ON SITE  | -    | -    | В    | WD    | PLAM | TG    | EX. | НМ      | Р     | - | -     |         |                                 |
| <116 A        | GIRLS CHANGE ROOM x116   | CONFIRM ON SITE  | -    | -    | А    | WD    | PLAM | -     | EX. | НМ      | Р     | - | -     |         |                                 |
|               | BOYS CHANGE<br>ROOM x117 | CONFIRM ON SITE  | -    | -    | А    | WD    | PLAM | -     | EX. | НМ      | Р     | - | -     |         |                                 |
| <118 A        | CUSTODIAN x118           | CONFIRM ON SITE  | -    | -    | А    | WD    | PLAM | -     | EX. | НМ      | Р     | - | -     |         |                                 |
| <132 A        | LEARNING COMMONS x132    | CONFIRM ON SITE  | -    | -    | В    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <133 A        | STAGE x133               | CONFIRM ON SITE  | -    | -    | В    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <137 A        | GYMNASIUM x137           | CONFIRM ON SITE  | -    | -    | В    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <b>к137</b> В | GYMNASIUM x137           | CONFIRM ON SITE  | -    | -    | В    | WD    | PLAM | TG    | EX. | нм      | Р     | - | -     |         |                                 |
| <137 C        | GYMNASIUM x137           | CONFIRM ON SITE  | -    | -    | В    | НМ    | PLAM | TG    | 2   | НМ      | Р     | - | -     |         |                                 |
| <140 A        | VESTIBULE x140           | CONFIRM ON SITE  | -    | -    | В    | НМ    | PLAM | TG    | 2   | НМ      | Р     | - | -     |         |                                 |

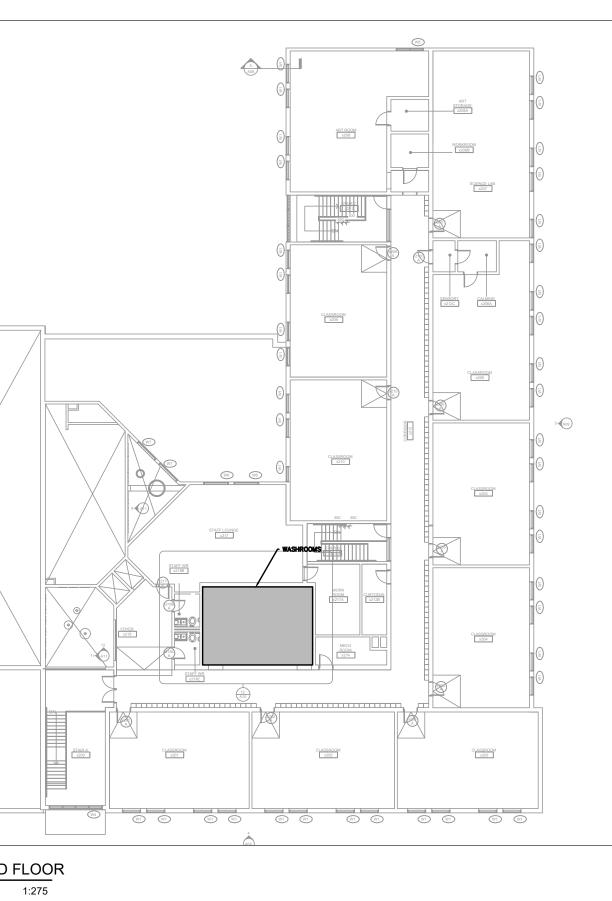
| DOOR    | ROOM                 |         |           |      |      |      |       |      |       |      |       | FRAME |    |       | REMARKS |  |
|---------|----------------------|---------|-----------|------|------|------|-------|------|-------|------|-------|-------|----|-------|---------|--|
| #       | NAME                 | WIDTH   | HEIGHT    | FIRE | H.T. | TYPE | MAT'L | FIN  | GLASS | TYPE | MAT'L | FIN   | DC | GLASS |         |  |
|         |                      |         |           |      |      |      |       |      |       |      |       |       |    |       |         |  |
| SECOND  | FLOOR                |         |           |      |      |      |       |      |       |      |       |       |    |       |         |  |
| x201 A  | CLASSROOM x201       | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x202 A  | CLASSROOM x202       | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Ρ     | -  | -     |         |  |
| x203 A  | CLASSROOM x203       | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Ρ     | -  | -     |         |  |
| x204 A  | CLASSROOM x204       | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x205 A  | CLASSROOM x205       | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x206 A  | MUSIC x206           | CONFIR  | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x207 A  | SCIENCE LAB x207     | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x208 A  | ART ROOM x208        | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x209 A  | CLASSROOM x209       | CONFIR  | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x210 A  | CLASSROOM x210       | CONFIRI | M ON SITE | -    | -    | с    | WD    | PLAM | TG    | EX.  | нм    | Р     | -  | -     |         |  |
| x210A A | SENSORY x210A        | CONFIRI | M ON SITE | -    | -    | A    | WD    | PLAM | -     | EX.  | нм    | Р     | -  | -     |         |  |
| x210B A | STAFF WASHROOM x210B | CONFIRI | M ON SITE | -    | -    | A    | WD    | PLAM | -     | EX.  | нм    | Р     | -  | -     |         |  |
| x210C A | STAFF WASHROOM x210C | CONFIRI | M ON SITE | -    | -    | A    | WD    | PLAM | -     | EX.  | нм    | Р     | -  | -     |         |  |
| x217 A  | STAFF LOUNGE x217    | CONFIR  | M ON SITE | -    | -    | с    | WD    | PLAM | ТG    | EX.  | нм    | Р     | -  | _     |         |  |

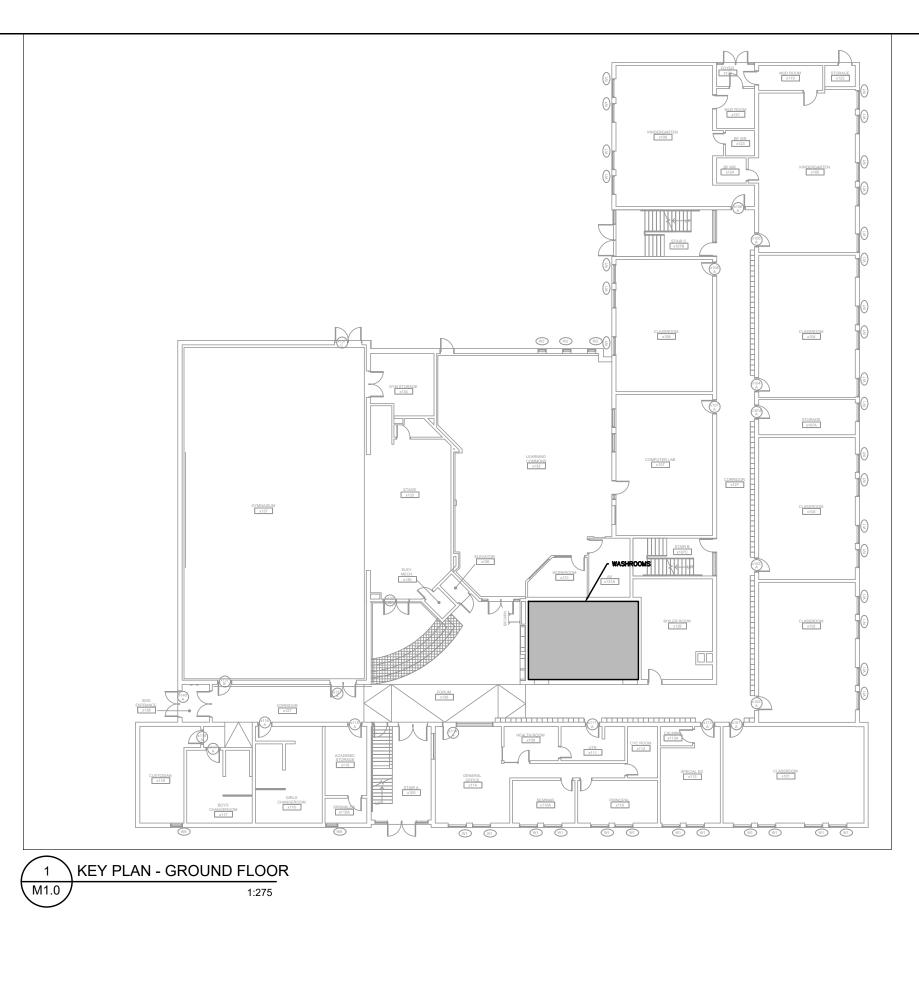
|   | D — PLUMBING<br>all symbols may not appear on drawings.   | м1.0  | LEGENDS, GENERAL NOTES, EQUIPMENT S  | CHEDULE   |   |          | RET                  | URN            | I/ E               | XHA    | ۱U           |
|---|---|---|--|---|---|----------|----------------------|----------------|--------------------|--------|--------------|
| REFER   | DESCRIPTION   | M2.0  | DEMOLITION PLUMBING AND DRAINAGE LA  |   |   | ┣─       |                      |                | SIZE               |        | +            |
|   | DOMESTIC COLD WATER PIPING  | M3.0  | PROPOSED PLUMBING AND DRAINAGE LAY   | OUT   |   | S`       | YMBOL                |                | MM × M             |        | AF           |
|   | DOMESTIC HOT WATER PIPING   | M4.0<br>M4.1  | DEMOLITION AND PROPOSED HVAC LAYOU DEMOLITION AND PROPOSED HVAC LAYOU  | T-ground f<br>T-second fi   | LOOR<br>_OOR  |          |                      |                | (IN. x IN          | ,      | ⊨            |
|   | DOMESTIC HOT WATER RECIRC. PIPING   | M5.0  | DEMOLITION AND PROPOSED SPRINKLER L  | AYOUT   |   |          | -1 $E-'$             |                | 300x30<br>(12x12)  |        | CE           |
| V   | VENT PIPING<br>SANITARY PIPING ABOVE FLOOR  | M6.0  | MECHANICAL SPECIFICATIONS-1  |   |   |          |                      | _              | . ,                |        |              |
|   | SANITARY PIPING ABOVE FLOOR<br>SANITARY PIPING BELOW GRADE OR FLOOR   | M6.1  | MECHANICAL SPECIFICATIONS-2  |   |   |          | -2 E-2               |                | $600 \times 300$   |        | CE           |
|   | PIPING TO BE REMOVED  |   |  |   |   |          |                      |                | (24x12)            |        | <u> </u>     |
| ww  | HEAT TRACED PIPING  |   |  |   |   |          | -3 E-3               | -              | 600x600            |        | CE           |
|   | CONNECTION OF NEW AND EXISTING PIPING   | -11   |  |   |   |          |                      | <u> </u>       | (24x24)            |        | <u> </u>     |
|   | CAPPED PIPE   | -11   |  |   |   | R-       |                      |                | 500x500            |        | CE           |
| <b>⊘</b> FD   | FLOOR DRAIN   |   |  |   |   |          | FM                   |                | (20x20)            |        |              |
|   | FUNNEL FLOOR DRAIN  |   |  |   |   | R-       |                      |                | $750 \times 350$   |        | W            |
| ) HD  | HUB DRAIN   |   | RAL NOTES  |   |   |          | FM                   |                | (30x14)            |        | ļ            |
| () RD   | ROOF DRAIN  |   |  |   |   |          | -6                   |                | 750x250            |        | D            |
| €RD   | ROOF DRAIN ABOVE  |   | RCHITECTURAL REFLECTED CEILING PLAN F<br>DIFFUSERS AND OTHER ELEMENTS.   | OR COORDIN  | ATION   |          | FM                   |                | (30x10)            | )      |              |
|   | CLEANOUT IN FLOOR   | SHOULD BE   | ANCES THE NEED FOR ACCESS DOORS IN<br>AVOIDED IF POSSIBLE. WHERE INSTALLATIO   | N OF COMPO  | NENTS   | 1        | NOTE(S               | S): 1. A       | ACCEPTA            | BLE AL |              |
|   | CLEANOUT IN LINE OR STACK   | WHICH REQU  | IRE ACCESS CANNOT BE AVOIDED, SUBMIT<br>ARCHITECTURAL REFLECTED CEILING PLAN   | ' (DIMENSIONE<br>S TO CONSUL  | ED)   |          | - · - ( •            | ,,             | · <u> </u>         |        |              |
|   |   | FOR APPROV  | AL PRIOR TO INSTALLATION OF COMPONEN<br>MS TO BE REMOVED REMAIN THE PROPER   | NT.   |   | - I      |                      |                |                    |        |              |
|   | ISOLATION VALVE   | SHALL BE D  | INS TO BE REMOVED REMAIN THE PROPER<br>ELIVERED TO A LOCATION ON SITE DESIGN<br>ER DECLARES NO INTEREST IN THE REMOV   | ATED BY THE   | OWNER.  |          |                      |                |                    |        |              |
|   | CHECK VALVE   | OWNERSHIP   | AND REMOVE THE ITEMS FROM THE SITE.  |   |   |          |                      |                |                    |        |              |
| <u> </u>  | STRAINER  | REFER TO A<br>PHASING AN  | RCHITECTURAL DRAWINGS AND SPECIFICATI<br>D STAGING.  | IUN FOR   |   |          |                      |                |                    |        |              |
|   |   | _   |  |   |   | -<br>1   |                      |                |                    |        |              |
|   | 3-WAY VALVE   | PLUN  | BING NOTES   |   |   |          |                      |                |                    |        |              |
| <u>∼</u><br>\$7   | TEMPERATURE & PRESSURE RELIEF VALVE   |   | RACTOR IS TO VERIFY CONNECTION POINTS  | TO SERVICE  | s with  |          |                      |                |                    |        |              |
| CTE   |   | OTHER   | R TRADES ON SITE.<br>RACTOR IS TO CLEAR DUCTWORK WHEN IN   |   |   |          |                      |                |                    |        |              |
| ф   | UNION   | CLEAR   | ANCES TO BE VERIFIED ON SITE.  |   |   |          |                      |                |                    |        |              |
| OPG   | PRESSURE GAUGE  |   | DE A CLEANOUT AT THE BOTTOM OF EVER<br>( THAT CONNECTS TO A HORIZONTAL DRAI  |   | WASTE   |          |                      |                |                    |        |              |
| T   | THERMOMETER   |   | DE A CLEANOUT FROM EACH PLUMBING FI<br>RED BY BUILDING CODE, PART 7 - PLU  |   | Ξ   |          |                      |                |                    |        |              |
|   | PUMP  | 5. CHECK  | ( AND VERIFY LOCATION OF ALL PIPES, DU   |   |   | 1        |                      |                |                    |        |              |
|   |   | WITH A  |  |   |   |          |                      |                |                    |        |              |
| <b></b>   | PIPE DOWN   | RELOC   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING V   | RENCE. REMO'<br>WITH WORK C   | /AL OR  |          |                      |                |                    |        |              |
| -   | PIPE DOWN<br>PIPE UP  | RELOC<br>TRADE<br>CONCE   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>IS IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V   | RENCE. REMOY<br>WITH WORK O<br>VICAL TRADE<br>WRITING.  | /AL OR<br>F OTHER   |          | ſ                    |                |                    |        |              |
| - <b>o</b>  |   | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR  | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING V<br>IS IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE   | RENCE. REMOY<br>WITH WORK O<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>ED AND VENT   | /al or<br>F other<br>Nnel   |          |                      |                |                    |        |              |
| •   | PIPE UP   | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUI   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>ES IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU   | RENCE. REMO'<br>WITH WORK C<br>NICAL TRADE<br>WRITING.<br>NS (HUB, FU<br>D AND VENT<br>MBING.   | /AL OR<br>F OTHER<br>NNEL<br>ED AS  |          |                      |                |                    |        |              |
| -0<br>-0<br>-•  | PIPE UP<br>PIPE UP & DOWN   | ELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUI<br>7. FOR M<br>ARCHI   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>ES IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>HOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.  | RENCE. REMO'<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T   | /AL OR<br>F OTHER<br>NNEL<br>ED AS<br>O   |          |                      |                |                    |        |              |
| 0<br>•  | PIPE UP & DOWN<br>PIPE TEE  | CONCE<br>CONCE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUI<br>7. FOR M<br>ARCHI<br>8. PROVI<br>CEILIN  | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>ES IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.   | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D  | /AL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL  |          | (3)<br>(5)<br>(5)    |                |                    |        |              |
| 0<br>0<br>0<br>E<br>  | PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING  | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>CEILIN<br>9. PROVI  | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>ES IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>HOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT   | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D  | /AL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL  |          | ()<br>()<br>()<br>() |                |                    |        |              |
|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING  | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>CEILIN<br>9. PROVII<br>WALL<br>10. IN ALL   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>ES IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>400UNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO   | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>ED AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOV<br>R IN GWB CE   | /AL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY   |          |                      |                |                    |        |              |
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| -0<br>-0<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>C<br>E<br>NAME)                                     | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN  | RELOC<br>TRADE<br>CONCE   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING '<br>S IS THE RESPONSIBILITY OF THE MECHAN<br>ENED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>400UNTING HEIGHT OF ALL PLUMBING FIXTUI<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOI<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>& TO CONSULTANTS FOR APPROVAL PRIOR<br>DNENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED-IN WITH APPROPRIATE MATERIAL TO<br>RATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICE UNTIL THE   | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>ID AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIN<br>OR NEW FIN<br>ING WHEREVE<br>ESE AREAS A   | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>TION OF<br>NG TO<br>E<br>ISHES.<br>R   |          |                      |                |                    |        |              |
|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP  | RELOC         TRADE         CONCE         6. ALL P         FLOOR         REQUI         7. FOR M         8. PROVII         CEILIN         9. PROVII         WALL         10. IN ALL         11. SHOUL         COMPC         ALL D         SEPAR         12. CONTR         POSSII         13. CONTR         EXISTI         RECON  | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING<br>IS IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>LINSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>S TO CONSULTANTS FOR APPROVAL PRIOR<br>ONENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED-IN WITH APPROPRIATE MATERIAL TO<br>RATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING  | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>ID AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIN<br>OR NEW FIN<br>ING WHEREVE<br>ESE AREAS A   | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>TION OF<br>NG TO<br>E<br>ISHES.<br>R   |          |                      |                |                    |        |              |
|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP  | RELOC         TRADE         CONCE         6. ALL P         FLOOR         REQUI         7. FOR M         ARCHI         8. PROVII         CEILIN         9. PROVII         WALL         10. IN ALL         11. SHOUL         COMPC         ALL D         BE FIL         SEPAR         12. CONTR         POSSII         13. CONTR         RECON         TO BE         14. BEFOR  | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING '<br>S IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTUI<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LC<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOI<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>5 TO CONSULTANTS FOR APPROVAL PRIOR<br>ONENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED-IN WITH APPROPRIATE MATERIAL TO<br>RATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICES. ONLY THEN O   | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIF<br>OR NEW FIN<br>ING WHEREVE<br>SE AREAS A<br>BSOLETE PIP<br>STING SLAB  | VAL OR<br>F OTHER<br>F OTHER<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>TO<br>E<br>ISHES.<br>R<br>RE<br>NG IS<br>REFER TO   |          |                      |                |                    |        |              |
|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (RETURN) DUCT UP  | RELOC         TRADE         CONCE         6. ALL P         FLOOR         REQUI         7. FOR M         8. PROVII         CEILIN         9. PROVII         WALL         10. IN ALL         11. SHOUL         COMPC         ALL D         BE FRI         12. CONTF         POSSII         13. CONTF         EXISTI         RECON         TO BE         14. BEFOR         EXISTI         T5. AFTER  | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING '<br>S IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTUI<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOI<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>5 TO CONSULTANTS FOR APPROVAL PRIOR<br>ONENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED-IN WITH APPROPRIATE MATERIAL TO<br>RATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICES. ONLY THEN O<br>C REMOVED AS SHOWN.<br>RE CUTTING ANY HOLES THROUGH THE EXI:<br>NG STRUCTURAL DRAWINGS FOR GENERAL<br>2 PIPE REMOVAL ALL EXISTING OPENINGS II  | RENCE. 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| •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•                       | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (RETURN) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN  | RELOC         TRADE         CONCE         6. ALL P         FLOOR         REQUI         7. FOR M         8. PROVII         9. PROVII         WALL         10. IN ALL         11. SHOUL         COMPC         ALL D         BE FIL         CONTE         POSSII         13. CONTE         POSSII         14. BEFOR         EXISTII         15. AFTER         ARE T         SEPAR         16. RECON         FIXTUE         16. RECON         FIXTUE         17. PROVI  | ALL OTHER TRADES TO PREVENT INTERFER<br>AATION OF ANY SUCH WORK INTERFERING '<br>ES IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>40UNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LC<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOI<br>D. BE AVOIDED IF POSSIBLE. WHERE INSTA<br>DNENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>5 TO CONSULTANTS FOR APPROVAL PRIOR<br>DNENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>RATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICES. ONLY THEN O<br>E REMOVED AS SHOWN.<br>RE CUTTING ANY HOLES THROUGH THE EXIS<br>NG STRUCTURAL DRAWINGS FOR GENERAL<br>2 PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY OF<br>RATION.<br>INTECT VENTS FROM EXISTING EQUIPMENT /  | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>DO AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>EPIPING SERV<br>SES AREAS A<br>BSOLETE PIPI<br>STING SLAB I<br>REQUIREMEN<br>N FIRE SEPAI<br>DF THAT FIRE<br>AND PLUMBIN  | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUB  |          |                      |                |                    |        |              |
|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN  | RELOC         TRADE         CONCE         6. ALL P         FLOOR         REQUI         7. FOR M         8. PROVI         0. IN ALL         10. IN ALL         11. SHOUL         COMPC         ALL D         BE FIL         COMPT         ALL D         BE FIL         SEPAF         12. CONTE         POSSII         13. CONTE         EXISTI         14. BEFOR         EFOR         15. AFTER         ARE T         SEPAF         16. RECON         FIXTUF         17. PROVI         CELIN         18. ALL W   | ALL OTHER TRADES TO PREVENT INTERFER<br>AATION OF ANY SUCH WORK INTERFERING '<br>S IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTUI<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LC<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOI<br>D. DE AVOIDED IF POSSIBLE. 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REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>ID AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED C<br>DCATED ABOVE D<br>DCATED C<br>DCATED C<br>DCATED ABOVE D<br>DCATED ABOVE | VAL OR<br>F OTHER<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT  |          |                      |                |                    |        |              |
|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (RETURN) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>EXISTING DUCTWORK TO BE REMOVED<br>EXISTING DUCTWORK TO REMAIN  | RELOC         TRADE         CONCE         CONCE         ALL P         FLOOR         REQUI         7.         FOR M         ARCHI         8.         PROVII         9.         PROVII         WALL         10.         11.         SHOUL         COMPC         ALL D         BE FIL         SEPAR         12.         CONTE         POSSII         13.         CONTE         POSSII         13.         CONTE         POSSII         13.         CONTE         POSSII         13.         CONTE         POSSII         14.         BEFOR         PROVI         CELLIN         PROVI         TO BE         14.         BEFOR         15.         AFTER         ARE T         SEPAR         16.         RECON <t< td=""><td>ALL OTHER TRADES TO PREVENT INTERFER<br/>ATION OF ANY SUCH WORK INTERFERING '<br/>S IS THE RESPONSIBILITY OF THE MECHAN<br/>ENED UNLESS OTHERWISE APPROVED IN V<br/>LUMBING FIXTURES INCLUDING FLOOR DRAI<br/>&amp; DRAINS, TRENCH DRAINS) TO BE TRAPPE<br/>RED BY BUILDING CODE, PART 7 – PLU<br/>400UNTING HEIGHT OF ALL PLUMBING FIXTUI<br/>TECTURAL DRAWINGS.<br/>DE ACCESS DOOR FOR ALL VALVES LOCAT<br/>G.<br/>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br/>CEILING.<br/>L INSTANCES THE NEED FOR ACCESS DOOI<br/>D BE AVOIDED IF POSSIBLE. 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|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>NEGATIVE PRESSURE (SUPPLY) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>POSITIVE PRESSURE (RETURN) DUCT DOWN<br>POSITINE PRESSURE (RETURN) DUCT DOWN<br>POSITINE PRESSURE (RETURN) DUCT | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVI<br>CEILIN<br>9. PROVI<br>WALL<br>10. IN ALL<br>11. 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|   | PIPE UP<br>PIPE UP & DOWN<br>PIPE TEE<br>DENOTES EXISTING<br>EXISTING PIPING<br>FIRE EXTINGUISHER - SURFACE MOUNTED<br>D - HVAC<br>ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.<br>DESCRIPTION<br>EXISTING PIPING TO REMAIN<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>POSITIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (SUPPLY) DUCT UP<br>NEGATIVE PRESSURE (SUPPLY) DUCT DOWN<br>POSITIVE PRESSURE (SUPPLY) DUCT DOWN<br>NEGATIVE PRESSURE (RETURN) DUCT DOWN<br>NEU DUCTWORK<br>SUPPLY AIR DIFFUSER (ROUND)<br>SIDEWALL GRILLE<br>FULL RADIUS DUCT CONNECTION<br>TAP-IN DUCT CONNECTION<br>ROUND DUCT CONNECTION<br>ROUND DUCT CONNECTION   | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVI<br>CEILIN<br>9. PROVI<br>WALL<br>10. IN ALL<br>11. SHOUL<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>COMPC<br>(DIMEN<br>PLANS<br>(DIMEN<br>PLANS<br>(DIMEN<br>PLANS<br>(DIMEN<br>PLANS<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(DIMEN<br>(D   | ALL OTHER TRADES TO PREVENT INTERFER<br>ATION OF ANY SUCH WORK INTERFERING '<br>SATION OF ANY SUCH WORK INTERFERING '<br>SIS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>& DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTUI<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LC<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>S TO CONSULTANTS FOR APPROVAL PRIOR<br>ONENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>RATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICE UNTIL THE<br>UNECTED TO NEW SERVICES. ONLY THEN O<br>C REMOVED AS SHOWN.<br>RE CUTTING ANY HOLES THROUGH THE EXI<br>NG STRUCTURAL DRAWINGS FOR GENERAL<br>PIPE REMOVAL ALL EXISTING OPENINGS II<br>O BE FILLED—IN TO MAINTAIN INTEGRITY (<br>RATION.<br>NECT VENTS FROM EXISTING EQUIPMENT /<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>G SPACE.<br>(ATER, SANITARY, SEWER AND VENT COPPI<br>RE, JOINTS SHALL BE LEAD FREE. DO NOT<br>TSIDE WALL WHERE THEY MAY FREEZE, UN<br>AND THE PIPES ARE PROPERLY INSULATEI<br>LL SHUT-OFF VALVES AT EACH PLUMBING<br>MENT CONNECTION.  | RENCE. 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|   | PIPE UP PIPE UP PIPE UP & DOWN PIPE TEE DENOTES EXISTING EXISTING PIPING FIRE EXTINGUISHER - SURFACE MOUNTED D D O O O O O O O O O O O O O O O O O  | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>WALL<br>10. IN ALL<br>10. IN ALL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>12. COMP(<br>ALL D<br>BE FIL<br>SEPAR<br>12. CONTR<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAR<br>13. CONTR<br>EXISTII<br>RECON<br>TO BE<br>14. BEFOR<br>EXISTII<br>15. AFTER<br>ARE T<br>SEPAR<br>16. RECON<br>FIXTUR<br>17. PROVII<br>CEILIN<br>18. ALL W<br>SOLDE<br>IN OU<br>WALL  | ALL OTHER TRADES TO PREVENT INTERFERING<br>ATION OF ANY SUCH WORK INTERFERING T<br>STIG THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAIN<br>CRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LOC<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>TO CONSULTANTS FOR APPROVAL PRIOR<br>DIENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>RATON AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICE UNTIL THE<br>NECTED TO NEW SERVICES. 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REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>DO AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOVE<br>R IN GWB CE<br>AND CATED ABOV<br>R IN GWB CE<br>AND CATED ABOV<br>R IN GWB CE<br>AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>PIPING SERVICES<br>STING SLAB I<br>REQUIREMEN<br>N FIRE SEPAI<br>DF THAT FIRE<br>AND PLUMBIN<br>S AS REQUIR<br>ALVES INSTALL<br>ER PIPING WI<br>INSTALL WAT<br>D.<br>FIXTURE ANI<br>D EQUIPMENT<br>PROVIDE TO   | VAL OR<br>F OTHER<br>F OTHER<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUB                               | VE       | M1.0                 |                |                    |        | 1:275        |
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|   | PIPE UP PIPE UP PIPE UP & DOWN PIPE TEE DENOTES EXISTING EXISTING PIPING FIRE EXTINGUISHER - SURFACE MOUNTED D D D U U U U U U U U U U U U U U U U  | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>WALL<br>10. IN ALL<br>10. IN ALL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>12. COMP(<br>ALL D<br>BE FIL<br>SEPAR<br>12. CONTR<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAR<br>13. CONTR<br>EXISTII<br>RECON<br>TO BE<br>14. BEFOR<br>EXISTII<br>15. AFTER<br>ARE T<br>SEPAR<br>16. RECON<br>FIXTUR<br>17. PROVII<br>CEILIN<br>18. ALL W<br>SOLDE<br>IN OU<br>WALL  | ALL OTHER TRADES TO PREVENT INTERFERING OF<br>CATION OF ANY SUCH WORK INTERFERING OF<br>SIS IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>2 DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>DONENTS WHICH REQUIRE ACCESS CANNOT<br>NISIONED) LAYOUT ON ARCHITECTURAL REF<br>5 TO CONSULTANTS FOR APPROVAL PRIOR<br>DNENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>XATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICES. 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REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOVE<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIR<br>OR REROUTI<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>PIPING SERV<br>SEAREAS A<br>BSOLETE PIPI<br>STING SLAB I<br>REQUIREMEN<br>N FIRE SEPAI<br>DF THAT FIRE<br>AND PLUMBIN<br>S AS REQUIR<br>INSTALL WAT<br>JLESS BOTH<br>D.<br>FIXTURE ANI<br>D EQUIPMENT<br>PROVIDE TO<br>SANIT  | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SU                   |          | M1.0                 | DC             | cws                | DH     | 1:275        |
|   | PIPE UP PIPE UP PIPE UP & DOWN PIPE TEE DENOTES EXISTING EXISTING PIPING FIRE EXTINGUISHER - SURFACE MOUNTED  D D D U U U U U U U U U U U U U U U   | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>9. PROVII<br>9. PROVII<br>10. IN ALL<br>10. IN ALL<br>11. SHOUL<br>COMP(<br>DIMEN<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAF<br>12. CONTE<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAF<br>13. CONTE<br>POSSII<br>13. CONTE<br>EXISTII<br>RECON<br>TO BE<br>14. BEFOR<br>EXISTII<br>15. AFTER<br>ARE T<br>SEPAF<br>16. RECON<br>FIXTUF<br>17. PROVII<br>CEILIN<br>18. ALL W<br>SOLDE<br>IN OU<br>WALL<br>19. INSTAI<br>EQUIP<br>20. REFER<br>CONFIL  | ALL OTHER TRADES TO PREVENT INTERFERING<br>ATION OF ANY SUCH WORK INTERFERING<br>SIS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAIL<br>RED BY BUILDING CODE, PART 7 – PLU<br>HOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br>CELLING.<br>L INSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>ONENTS WHICH REQUIRE ACCESS CANNOT<br>NSIONED) LAYOUT ON ARCHITECTURAL REF<br>S TO CONSULTANTS FOR APPROVAL PRIOR<br>ONENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICE UNTIL THE<br>INECTED TO NEW SERVICES. ONLY THEN O<br>CREMOVED AS SHOWN.<br>EE CUTTING ANY HOLES THROUGH THE EXIS<br>NG STRUCTURAL DRAWINGS FOR GENERAL<br>PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY O<br>RATION.<br>NECT VENTS FROM EXISTING EQUIPMENT A<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>G SPACE.<br>(ATER, SANITARY, SEWER AND VENT COPPI<br>R JOINTS SHALL BE LEAD FREEZE, UN<br>AND THE PIPES ARE PROPERLY INSULATEI<br>LI SHUT-OFF VALVES AT EACH PLUMBING<br>MENT CONNECTION.<br>TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL WECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>CONNECTION.<br>E TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>CONNECTION.<br>E TO ARCHITECTURAL FOR OWNE   | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIR<br>OR REROUTI<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>PIPING SERV<br>SES AREAS A<br>BSOLETE PIPING SERV<br>STING SLAB I<br>REQUIREMENN<br>N FIRE SEPAI<br>DE THAT FIRE<br>AND PLUMBIN<br>S AS REQUIR<br>NOT TO<br>DEQUIPMENT<br>PROVIDE TO<br>SANIT<br>MM  | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT                 | ММ       | M1.0<br>INS          | DC<br>MM       | CWS<br>INS         | DH     | 1:275<br>HWS |
|   | PIPE UP PIPE UP PIPE UP & DOWN PIPE TEE DENOTES EXISTING EXISTING PIPING FIRE EXTINGUISHER - SURFACE MOUNTED  D - HVAC ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS. DESCRIPTION EXISTING PIPING TO REMAIN POSITIVE PRESSURE (SUPPLY) DUCT UP POSITIVE PRESSURE (SUPPLY) DUCT UP POSITIVE PRESSURE (SUPPLY) DUCT DOWN NEGATIVE PRESSURE (RETURN) DUCT DOWN NEGATIVE PRESSURE (RETURN) DUCT DOWN NEGATIVE PRESSURE (RETURN) DUCT DOWN NEGATIVE PRESSURE (SUPPLY) DUCT DOWN NEGATIVE PRESSURE (SUPPLY) DUCT DOWN NEGATIVE PRESSURE (RETURN) DUCT DOWN NEGATIVE PRESSURE (SUPPLY) DUCT DOWN NEGATIVE PRESSURE (RETURN) DUCT DOWN SUPPLY AIR DIFFUSER (ROUND) SIDEWALL GRILLE RETURN/EXHAUST GRILLE FULL RADIUS DUCT CONNECTION TAP-IN DUCT CONNECTION TAP-IN DUCT CONNECTION TURNING VANES FIRE DAMPER EXISTING FIRE DAMPER ACCESS DOOR BALANCING DAMPER  | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>9. PROVII<br>9. PROVII<br>10. IN ALL<br>10. IN ALL<br>11. SHOUL<br>COMP(<br>DIMEN<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAF<br>12. CONTE<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAF<br>13. CONTE<br>POSSII<br>13. CONTE<br>EXISTII<br>RECON<br>TO BE<br>14. BEFOR<br>EXISTII<br>15. AFTER<br>ARE T<br>SEPAF<br>16. RECON<br>FIXTUF<br>17. PROVII<br>CEILIN<br>18. ALL W<br>SOLDE<br>IN OU<br>WALL<br>19. INSTAI<br>EQUIP<br>20. REFER<br>CONFIL  | ALL OTHER TRADES TO PREVENT INTERFERING OF<br>CATION OF ANY SUCH WORK INTERFERING OF<br>SIS IS THE RESPONSIBILITY OF THE MECHAN<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>2 DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>DONENTS WHICH REQUIRE ACCESS CANNOT<br>NISIONED) LAYOUT ON ARCHITECTURAL REF<br>5 TO CONSULTANTS FOR APPROVAL PRIOR<br>DNENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>XATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICES. ONLY THEN O<br>IS REMOVED AS SHOWN.<br>RE CUITING ANY HOLES THROUGH THE EXIS<br>NG STRUCTURAL DRAWINGS FOR GENERAL<br>PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY OF<br>RATION.<br>INECT VENTS FROM EXISTING EQUIPMENT /<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>OB STRUCTURAL DRAWINGS FOR GENERAL<br>PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY OF<br>RATION.<br>INECT VENTS FROM EXISTING EQUIPMENT /<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>G SPACE.<br>MATER, SANITARY, SEWER AND VENT COPPI<br>IR JOINTS SHALL BE LEAD FREE. DO NOT<br>TSIDE WALL WHERE THEY MAY FREEZE, UN<br>AND THE PIPES ARE PROPERLY INSULATED<br>LI SHUT—OFF VALVES AT EACH PLUMBING<br>MENT CONNECTION.<br>TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>FILXTURN NAME<br>GENERAL WALL MOUNTED<br>FLUSH VALVE WATER<br>RM ALL MECHANICAL REQUIREMENTS AND  | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIR<br>OR REROUTI<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>PIPING SERV<br>SES AREAS A<br>BSOLETE PIPING SERV<br>STING SLAB I<br>REQUIREMENN<br>N FIRE SEPAI<br>DE THAT FIRE<br>AND PLUMBIN<br>S AS REQUIR<br>NOT TO<br>DEQUIPMENT<br>PROVIDE TO<br>SANIT<br>MM  | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT                 | ММ       | M1.0<br>INS          | DC<br>MM       | CWS<br>INS         | DH     | 1:275<br>HWS |
|   | PIPE UP PIPE UP PIPE UP PIPE UP & DOWN PIPE TEE DENOTES EXISTING EXISTING PIPING FIRE EXTINGUISHER - SURFACE MOUNTED  D D D D D D D D D D D D D D D D D D   | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>9. PROVII<br>WALL<br>10. IN ALL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>11. SHOUL<br>12. COMP(<br>ALL D<br>BE FIL<br>SEPAR<br>12. CONTR<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAR<br>13. CONTR<br>EXISTII<br>RECON<br>TO BE<br>14. BEFOR<br>EXISTII<br>15. AFTER<br>ARE T<br>SEPAR<br>16. RECON<br>FIXTUR<br>17. PROVII<br>CEILIN<br>18. ALL W<br>SOLDE<br>IN OU<br>WALL<br>19. INSTAI<br>EQUIP<br>20. REFER<br>CONFIL   | ALL OTHER TRADES TO PREVENT INTERFERING<br>CATION OF ANY SUCH WORK INTERFERING.<br>IS IS THE RESPONSIBILITY OF THE MECHAP<br>ERNED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAI<br>2 DRAINS, TRENCH DRAINS) TO BE TRAPPE<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>LINSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>DNENTS WHICH REQUIRE ACCESS CANNOT<br>VSIONED) LAYOUT ON ARCHITECTURAL REF<br>3 TO CONSULTANTS FOR APPROVAL PRIOR<br>DNENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>VATION AND PATCHED TO MATCH EXISTING<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO REMOVE ALL DRAWINGS FOR GENERAL<br>PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY C<br>RATION.<br>INECT VENTS FROM EXISTING EQUIPMENT /<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>RES WHICH ARE THEY MAY FREEZE, UN<br>AND THE PIPES ARE PROPERLY INSULATEI<br>IL SHUT-OFF VALVES AT EACH PLUMBING<br>MENT CONNECTION.<br>TSIDE WALL WHERE THEY MAY FREEZE, UN<br>AND THE PIPES ARE PROPERLY INSULATEI<br>FLUSH VALVES AT EACH PLUMBING<br>MENT CONNECTION.<br>TSIDE WALL WHERE THEY MAY FREEZE, UN<br>AND THE PIPES ARE PROPERLY INSULATED<br>FLUSH VALVES AT EACH PLUMBING<br>MENT CONNECTION.<br>TO ARCHITECTURAL FOR OWNER SUPPLIE<br>MALL MECHANICAL REQUIREM | RENCE. REMOVEMENT<br>RENCE. REMOVEMENT<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>DO AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DOCATED ABOVE<br>R IN GWB CE<br>LATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTH<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>SPIPING SERV<br>SES AREAS A<br>BSOLETE PIPI<br>STING SLAB I<br>REQUIREMEN<br>N FIRE SEPAI<br>DF THAT FIRE<br>AND PLUMBIN<br>S AS REQUIR<br>MIN SAS REQUIR<br>D.<br>FIXTURE ANI<br>D EQUIPMENT<br>PROVIDE TO<br>SANIT<br>MM<br>100  | AL OR<br>FOTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SU             | ММ<br>75 | INT<br>INS<br>3      | DC<br>MM<br>30 | CWS<br>INS<br>1.25 | DH     | 1:275<br>HWS |
|   | PIPE UP PIPE UP PIPE UP PIPE UP & DOWN PIPE TEE DENOTES EXISTING EXISTING PIPING FIRE EXTINGUISHER - SURFACE MOUNTED  D D O O O O O O O O O O O O O O O O   | RELOC<br>TRADE<br>CONCE<br>6. ALL P<br>FLOOR<br>REQUII<br>7. FOR M<br>ARCHI<br>8. PROVII<br>9. PROVII<br>9. PROVII<br>10. IN ALL<br>10. IN ALL<br>11. SHOUL<br>COMP(<br>DIMEN<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAF<br>12. CONTE<br>PLANS<br>COMP(<br>ALL D<br>BE FIL<br>SEPAF<br>13. CONTE<br>POSSII<br>13. CONTE<br>EXISTII<br>RECON<br>TO BE<br>14. BEFOR<br>EXISTII<br>15. AFTER<br>ARE T<br>SEPAF<br>16. RECON<br>FIXTUF<br>17. PROVII<br>CEILIN<br>18. ALL W<br>SOLDE<br>IN OU<br>WALL<br>19. INSTAI<br>EQUIP<br>20. REFER<br>CONFIL  | ALL OTHER TRADES TO PREVENT INTERFER<br>CATION OF ANY SUCH WORK INTERFERING.<br>IS IS THE RESPONSIBILITY OF THE MECHAP<br>RED UNLESS OTHERWISE APPROVED IN V<br>LUMBING FIXTURES INCLUDING FLOOR DRAIL<br>RED BY BUILDING CODE, PART 7 – PLU<br>MOUNTING HEIGHT OF ALL PLUMBING FIXTU<br>TECTURAL DRAWINGS.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL VALVES LOCAT<br>G.<br>DE ACCESS DOOR FOR ALL CLEANOUTS LO<br>CEILING.<br>L INSTANCES THE NEED FOR ACCESS DOOL<br>D BE AVOIDED IF POSSIBLE. WHERE INSTA<br>DNENTS WHICH REQUIRE ACCESS CANNOT<br>SIONED) LAYOUT ON ARCHITECTURAL REF<br>3 TO CONSULTANTS FOR APPROVAL PRIOR<br>DNENT.<br>ISTURBED SERVICES AFTER PIPE REMOVAL<br>LED—IN WITH APPROPRIATE MATERIAL TO<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO REMOVE ALL OBSOLETE PIPI<br>BLE.<br>RACTOR IS TO ENSURE THAT ALL EXISTING<br>NG AREAS REMAIN IN SERVICE UNTIL THE<br>INECTED TO NEW SERVICES. ONLY THEN O<br>C REMOVED AS SHOWN.<br>RE CUTTING ANY HOLES THROUGH THE EXIS<br>NG STRUCTURAL DRAWINGS FOR GENERAL<br>2 PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY C<br>RATON.<br>INECT VENTS FROM EXISTING EQUIPMENT /<br>RES WHICH ARE TO REMAINS FOR GENERAL<br>2 PIPE REMOVAL ALL EXISTING OPENINGS II<br>TO BE FILLED—IN TO MAINTAIN INTEGRITY C<br>ATTON.<br>INECT VENTS FROM EXISTING EQUIPMENT /<br>RES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>SES WHICH ARE TO REMAIN TO NEW VENTS<br>DE SIGN IDENTIFYING LOCATION OF ALL VA<br>AND THE PIPES ARE PROPERLY INSULATEI<br>IL SHUT-OFF VALVES AT EACH PLUMBING<br>MENT CONNECTION.<br>2 TO ARCHITECTURAL FOR OWNER SUPPLIEI<br>RM ALL MECHANICAL REQUIREMENTS AND<br>FIXTURN NAME<br>FIXTURN NAME<br>FIXTURN NAME  | RENCE. REMOV<br>WITH WORK C<br>VICAL TRADE<br>WRITING.<br>INS (HUB, FU<br>D AND VENT<br>MBING.<br>RES REFER T<br>TED ABOVE D<br>DCATED ABOVE D<br>DCATED ABOV<br>R IN GWB CE<br>LLATION OF<br>BE AVOIDED,<br>LECTED CEILI<br>TO INSTALL/<br>OR REROUTI<br>MAINTAIN FIR<br>OR REROUTI<br>MAINTAIN FIR<br>OR NEW FIN<br>ING WHEREVE<br>PIPING SERV<br>SES AREAS A<br>BSOLETE PIPING SERV<br>STING SLAB I<br>REQUIREMENN<br>N FIRE SEPAI<br>DE THAT FIRE<br>AND PLUMBIN<br>S AS REQUIR<br>NOT TO<br>DEQUIPMENT<br>PROVIDE TO<br>SANIT<br>MM  | VAL OR<br>F OTHER<br>NNEL<br>ED AS<br>O<br>RY WALL<br>E DRY<br>ILINGS<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>NG<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT<br>SUBMIT                 | ММ       | M1.0<br>INS          | DC<br>MM       | CWS<br>INS         | DH     | 1:275<br>HWS |

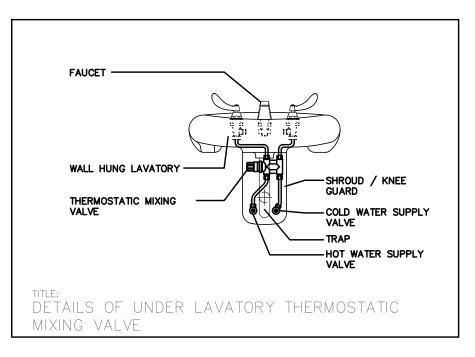
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|     |  | ММ  | INS  | ММ | INS  | ММ    | INS           | ММ | INS  | MM | INS   |   |
| WC1 | GENERAL WALL MOUNTED<br>FLUSH VALVE WATER<br>CLOSET      | 100 | 4    | 75 | 3    | 30    | 1.25          | _  | -    | -  | -     | AMERICAN STANDARD MADERA 2234 001,( KOHLER WELCOMME K-4350, MANSFIELD BALTIC 1311NS, ZURN Z5655-BWL), VITREOUS CHINA, SIPHON JE<br>VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR MOUNTED, 10" OR 12" ROUGH IN, MIN 2" TRAP WAY, MAX 6 LIT PER FLUSH<br>TRIM: DELTA 81T201-5 (ZURN Z6000AV-WS1, SLOAN 111-1.6), EXPOSED POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHGRAM TYPE FLUSH VA<br>OSCILATING HANDLE FLUSH CONNECTION AND COUPLING FOR 40 MM, TOP SPUD, WALL AND SPUD ESCUTCHEONS,SEAT BUMPER AND VACCUM BREAK<br>FLUSH,SEAT CENTOCO AM500STSCCSS  |
| WC2 | BARRIER FREE WALL<br>MOUNTED FLUSH VALVE<br>WATER CLOSET | 100 | 4    | 75 | 3    | 30    | 1.25          | _  | _    | _  | _     | AMERICAN STANDARD MADERA 2234 001,( KOHLER WELCOMME K-4350, MANSFIELD BALTIC 1311NS, ZURN Z5655-BWL), VITREOUS CHINA, SIPHON JE<br>VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR MOUNTED, 10" OR 12" ROUGH IN, MIN 2" TRAP WAY, MAX 6 LIT PER FLUSH<br>TRIM: DELTA 81T201-5 (ZURN Z6000AV-WS1, SLOAN 111-1.6), EXPOSED POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHGRAM TYPE FLUSH VA<br>OSCILATING HANDLE FLUSH CONNECTION AND COUPLING FOR 40 MM, TOP SPUD, WALL AND SPUD ESCUTCHEONS,SEAT BUMPER AND VACCUM BREAK<br>FLUSH,SEAT CENTOCO AM500STSCCSS, C/W BACKREST  |
| WF1 | BARRIER FREE WASH<br>FOUNTAIN                            | 50  | 2    | 32 | 1.25 | 13    | 0.50          | 13 | 0.50 | 13 | 0.5   | WALL MOUNTED WASH FOUNTAIN C/W CONCEALED FLOOR MOUNTED WALL<br>CARRIER (3 USER), BRADLEY MG-3 WALL MOUNTED TERREON BOWL GROUP LAVATORY SYSTEM, COMPLETE WITH STAINLESS STEEL PANEL, SUITABLE<br>COLOUR: COLOUR BY ARCHITECT. ALLOW FOR TWO(2) PREMIUM CLOURS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS,<br>TRIM: ADAPTIVE INFRA-RED CONTROLLED, MOLDED SPRAYHEAD, STOP VALVES, TRANSFORMER, HORIZONTAL SWING CHECK<br>VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. PROVIDE CONTROL TO LIMIT FLOW TO 2L/MINUTE. SUITABLE FOR<br>120/1/60.   |
| L1  | BARRIER FREE LAVATORY                                    | 50  | 2    | 32 | 1.25 | 13    | 0.50          | 13 | 0.50 | 13 | 0.5   | B.F. WALL MOUNTED LAV C/W CONCEALED FLOOR MOUNTED WALL CARRIER, MANUFACTURER AMERICAN STANDARD MURRO (KOHLER, ZURN): VITREOU<br>BACK, CONTOURED FRONT, SHALLOW FRONT BASIN, FRONT OVERFLOW, SOAP DEPRESSIONS, SUPPLY OPENINGS ON 102mm (4") CENTRES, CONCEALE<br>TRIM: DELTA 591T0230 (MOEN COMMERCIAL 8301-AC ZURN Z6915-HW6-XL), HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH I<br>SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL<br>FLOW CONTROL FOR 1.5gpm (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER STAINLESS STEEL RECESSED HOUSING SURFACE MOUNTED HOU<br>SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER,<br>INSULATION: MCGUIRE PROWRAP (PWV8902 TRUEBRO LAV GUARD) INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSUL<br>JACKET.<br>WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER.PROVIDE FLOOR MOUNTED WALL CARRIER, THERMOSTATIC MIXING VALVE<br>POWERS LM490 OR EQUAL |
| FD  | FLOOR DRAIN  | 50  | 2    | 50 | 2    | -     | -             | -  | -    | -  | -     | REFER TO SPECIFICATIONS   |
| TSP | TRAP SEAL PRIMER   | _   | _    | -  | _    | 10/13 | 0.38/0<br>.50 | -  | -    | -  | -     | ONE - 10MM/0.38" PER FD, FFD, HD, PD  |

| ΗA | HAUST GRILLE SCHEDULE |                         |                         |          |   |  |  |  |  |
|----|-----------------------|-------------------------|-------------------------|----------|---|--|--|--|--|
|    | APPLICATION           | NECK SIZE<br>MMø (INSø) | AIRFLOW<br>RANGE<br>CFM | NC RANGE | MANUFACTURER AND MODEL<br>(BASIS OF DESIGN: E.H. PRICE) |  |  |  |  |
|    | CEILING GRILLE        | -                       | <450                    | <30      | 80D   |  |  |  |  |
|    | CEILING GRILLE        | -                       | <800                    | <30      | 80D   |  |  |  |  |
|    | CEILING GRILLE        | -                       | <2000                   | <30      | 80D   |  |  |  |  |
|    | CEILING GRILLE        | _                       | <1500                   | <30      | 80D   |  |  |  |  |
|    | WALL GRILLE           | _                       | <835                    | <30      | 530D  |  |  |  |  |
|    | DUCT GRILLE           | _                       | <540                    | <30      | 530D  |  |  |  |  |

ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.



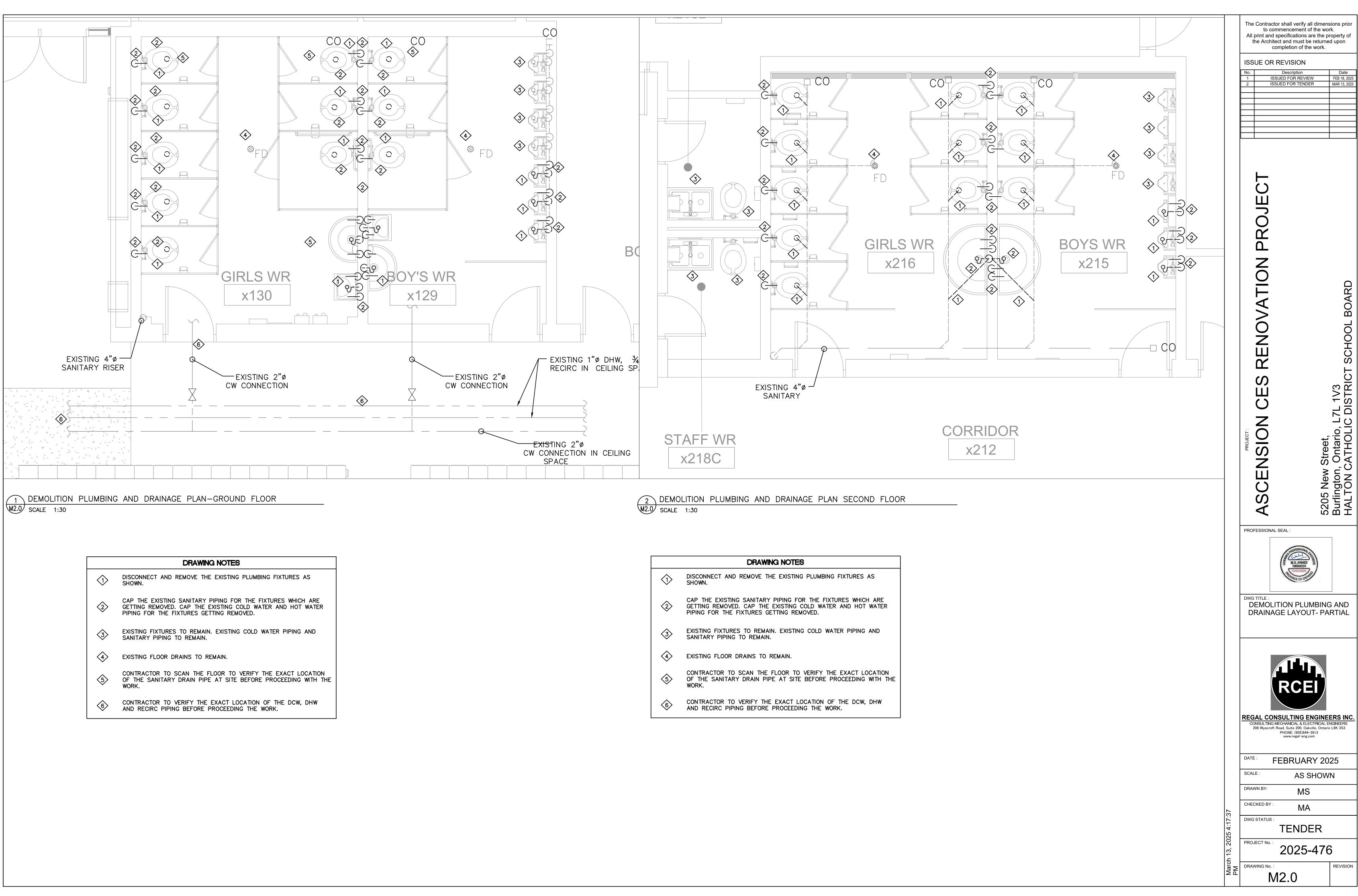




## PLUMBING FIXTURE CONNECTION SCHEDULE

| JET, ELONGATED RIM, TOP SPUD FOR FLUSH  |
|---|
| VALVE WITH 1" SCREWDRIVER ANGLE STOP,<br>AKER, FLUSH CYCLE SET FOR 6 LIT PER  |
| JET, ELONGATED RIM, TOP SPUD FOR FLUSH  |
| VALVE WITH 1" SCREWDRIVER ANGLE STOP,<br>AKER, FLUSH CYCLE SET FOR 6 LIT PER  |
| LE FOR THREE (3) USERS.   |
|   |
| OUS CHINA, LOW SHELF, WITH INTEGRAL<br>LED SUPPORTS,<br>H INTEGRAL WATER PROOF INFRA-RED<br>DAL RESISTANT AERATOR HAVING INTEGRAL<br>IOUSING FOR SOLENOID AND CONTROLLER. |
| ULATION SYSTEM COMPLETE WITH SEAMLESS   |
| LVE UNDER LAV. DELTA R3070-MIXLF,   |
|   |
|   |
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|                              | to<br>All print ai         | actor shall verify all di<br>commencement of the<br>nd specifications are t<br>hitect and must be ret<br>completion of the wo | e wor<br>he pr<br>urneo | k.<br>operty of   |
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|                              |                            | ISSUED FOR TENDER   |                         | MAR 13, 2023  |
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|                              | -                          | RCEI<br>ONSULTING ENG   |                         |   |
|                              | CONSULTI                   | NG MECHANICAL & ELECTRI<br>roft Road, Suite 200, Oakville, (<br>PHONE: (905)844–3913<br>www.regal-eng.com                     | CAL EN<br>Ontario       | NGINEERS<br>L6K 3S3   |
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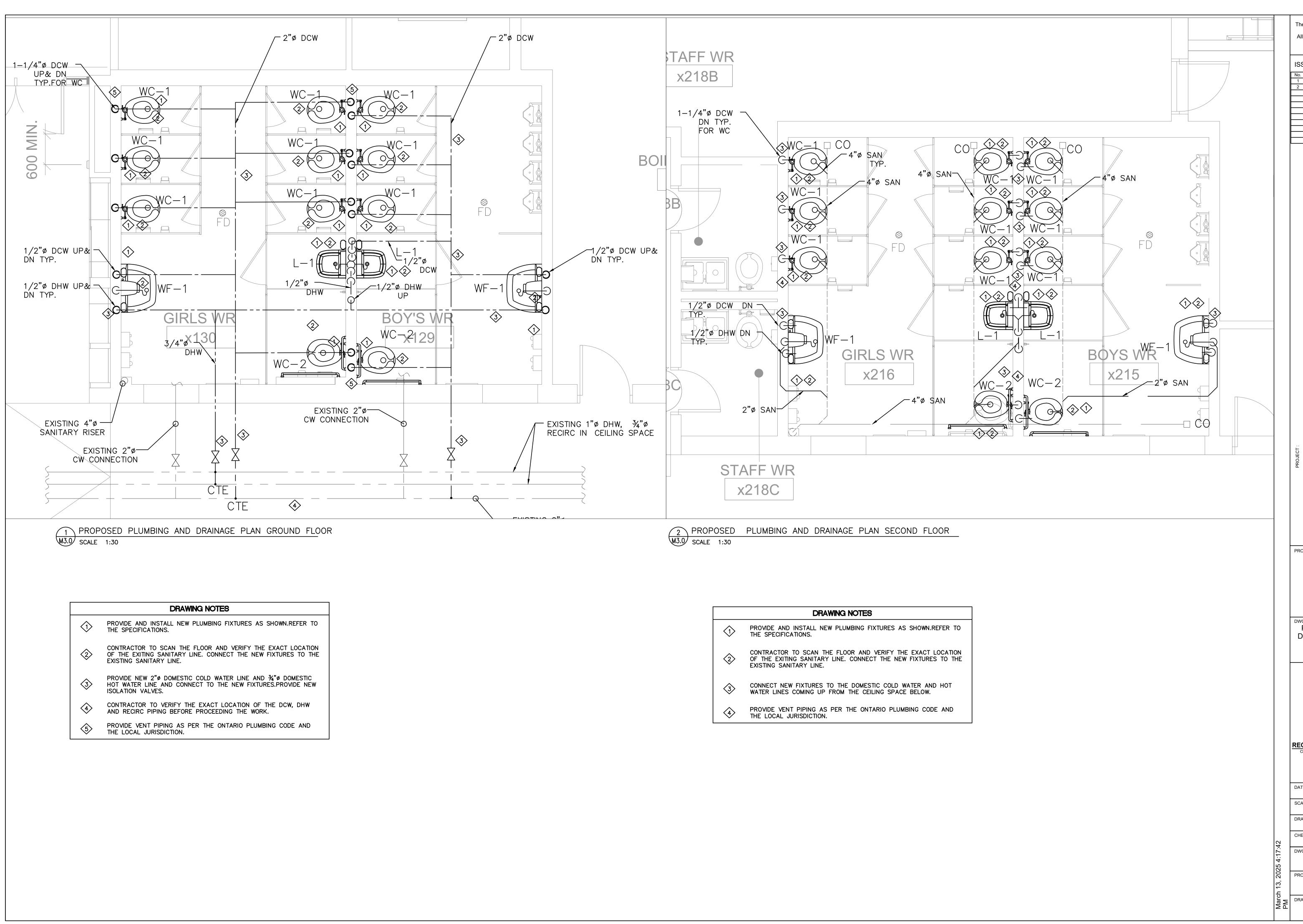
BOARD

SCHOOL

5205 New Street, Burlington, Ontario, L7L 1V3 HALTON CATHOLIC DISTRICT

REVISION

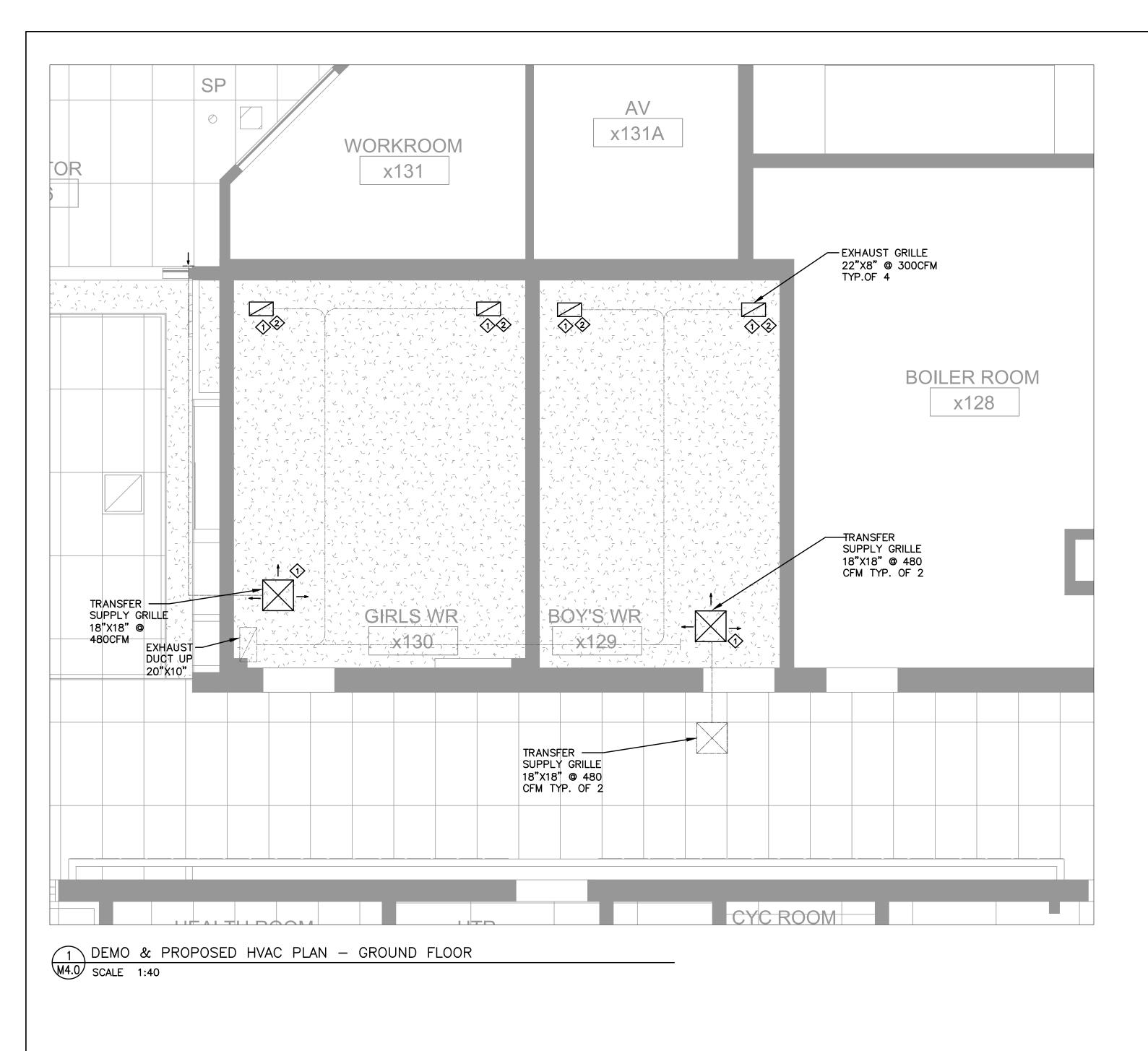
|                   | DRAWING NOTES   |
|-------------------|---|
| $\langle \rangle$ | DISCONNECT AND REMOVE THE EXISTING PLUMBING FIXTURES AS SHOWN.  |
| 2>                | CAP THE EXISTING SANITARY PIPING FOR THE FIXTURES WHICH ARE<br>GETTING REMOVED. CAP THE EXISTING COLD WATER AND HOT WATER<br>PIPING FOR THE FIXTURES GETTING REMOVED. |
| 3>                | EXISTING FIXTURES TO REMAIN. EXISTING COLD WATER PIPING AND SANITARY PIPING TO REMAIN.  |
| 4                 | EXISTING FLOOR DRAINS TO REMAIN.  |
| \$                | CONTRACTOR TO SCAN THE FLOOR TO VERIFY THE EXACT LOCATION<br>OF THE SANITARY DRAIN PIPE AT SITE BEFORE PROCEEDING WITH THE<br>WORK.                                   |
| 6                 | CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE DCW, DHW AND RECIRC PIPING BEFORE PROCEEDING THE WORK.   |



| DRAWING NOTES       |  |  |  |  |  |
|---------------------|--|--|--|--|--|
| $\langle \rangle$   | PROVIDE AND INSTALL NEW PLUMBING FIXTURES AS SHOWN.REFER TO THE SPECIFICATIONS.  |  |  |  |  |
| 2>                  | CONTRACTOR TO SCAN THE FLOOR AND VERIFY THE EXACT LOCATION<br>OF THE EXITING SANITARY LINE. CONNECT THE NEW FIXTURES TO THE<br>EXISTING SANITARY LINE. |  |  |  |  |
| 3                   | PROVIDE NEW 2"Ø DOMESTIC COLD WATER LINE AND ¾"Ø DOMESTIC<br>HOT WATER LINE AND CONNECT TO THE NEW FIXTURES.PROVIDE NEW<br>ISOLATION VALVES.           |  |  |  |  |
| $\langle 4 \rangle$ | CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE DCW, DHW AND RECIRC PIPING BEFORE PROCEEDING THE WORK.  |  |  |  |  |
| \$                  | PROVIDE VENT PIPING AS PER THE ONTARIO PLUMBING CODE AND THE LOCAL JURISDICTION.   |  |  |  |  |

| DRAWING NOTES     |  |  |  |  |  |
|-------------------|--|--|--|--|--|
| $\langle \rangle$ | PROVIDE AND INSTALL NEW PLUMBING FIXTURES AS SHOWN.REFER TO THE SPECIFICATIONS.  |  |  |  |  |
| 2>                | CONTRACTOR TO SCAN THE FLOOR AND VERIFY THE EXACT LOCATION<br>OF THE EXITING SANITARY LINE. CONNECT THE NEW FIXTURES TO THE<br>EXISTING SANITARY LINE. |  |  |  |  |
| \$                | CONNECT NEW FIXTURES TO THE DOMESTIC COLD WATER AND HOT WATER LINES COMING UP FROM THE CEILING SPACE BELOW.  |  |  |  |  |
| 4                 | PROVIDE VENT PIPING AS PER THE ONTARIO PLUMBING CODE AND THE LOCAL JURISDICTION.   |  |  |  |  |

| to<br>All print                            | tractor shall verify all dime<br>o commencement of the v<br>and specifications are the<br>rchitect and must be retur<br>completion of the work  | worl<br>e pro<br>nec | k.<br>operty of   |
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| -  | POSED PLUMBIN<br>NAGE LAYOUT - F  | _                    |   |
| CONSUL                                     | CONSULTING ENGINE           TING MECHANICAL & ELECTRICA           Consulting Mechanical & Electrical           Coroft Road, Suite 200, Oakville, Omt           PHONE: (905)844–3913           Www.regal-eng.com | L EN                 | GINEERS   |
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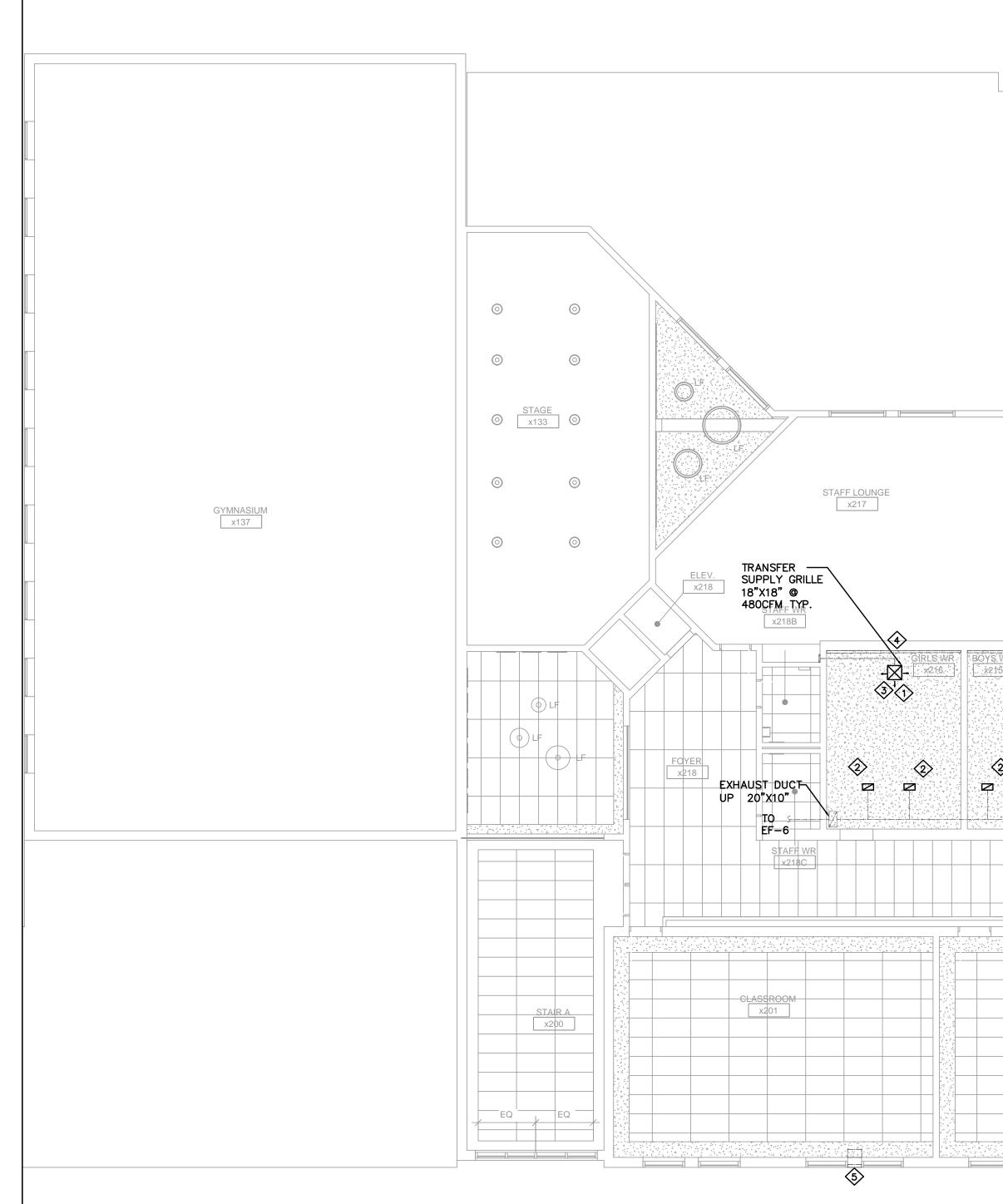


## DRAWING NOTES

DEMOLISH THE EXISTING EXHAUST AND SUPPLY GRILLES IN THE WASHROOMS AND PROVIDE NEW CEILING GRILLES. ALL THE EXISTING DUCTS TO REMAIN.  $\langle \rangle$ 

 $\langle 2 \rangle$  ADJUST THE AIR FLOWS TO MATCH THE EXISTING.

|    | The Contractor shall verify all dimensions prior<br>to commencement of the work.<br>All print and specifications are the property of<br>the Architect and must be returned upon<br>completion of the work. |  |                  |   |  |  |  |
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| ART ROOM<br>X208<br>ART RO |  | ART<br>STORAGE<br>X208A<br>WORKROOM<br>X208B<br>SCIENCE LAB<br>X207<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C |  |
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|  |  | SENSORY<br>X212C   |  |
|  |  |  |  |
| STAIR B<br>x213<br>WORK<br>ROOM<br>x217A<br>EXHAUST GRILLE<br>22"X8" @ 300CFI<br>TYP.OF 4<br>MECH<br>ROOM<br>x214  |  |  |  |
|  |  |  |  |

| $\langle 1 \rangle$ | DEMOLISH THE EXISTI<br>PROVIDE NEW CEILING  |
|---------------------|---|
|                     | DEMOLISH THE EXISTI<br>WHICH ARE LOCATED<br>TO BE CEILING TYPE<br>THE CEILING RELATED<br>THE NEW CEILING. |
| $\langle 3 \rangle$ | ADJUST THE AIR FLO  |
| $\langle 4 \rangle$ | EXISTING RADIATORS  |
| \$                  | EXTEND THE EXISTING<br>VENTILATORS BY 6" I<br>OUTSIDE. USE THE RI   |
|                     |   |

## DRAWING NOTES

TING SUPPLY GRILLES IN THE WASHROOMS AND NG GRILLES. ALL THE EXISTING DUCTS TO REMAIN.

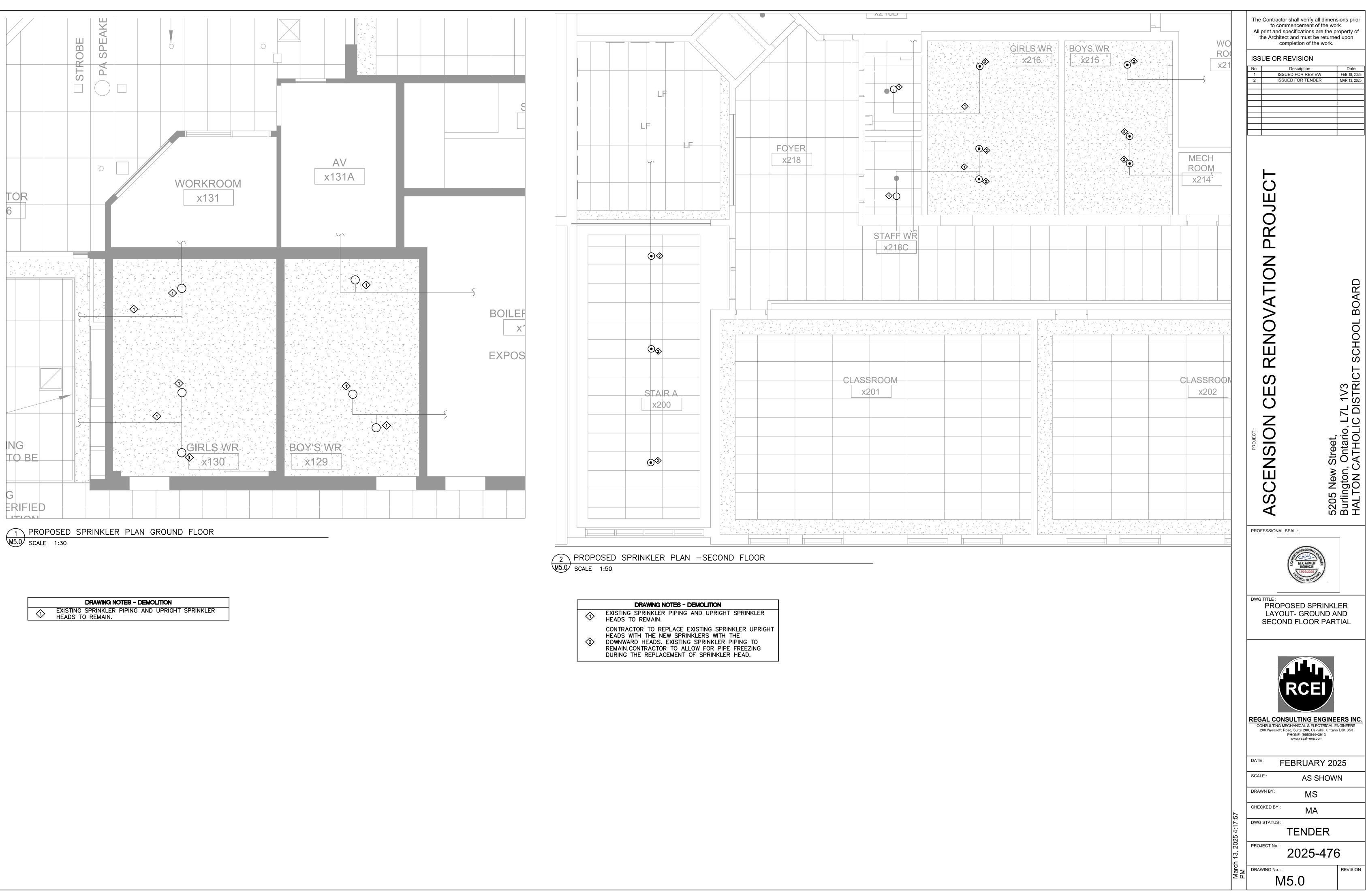
TING EXHAUST WALL GRILLES IN THE WASHROOMS IN THE BULKHEAD. THE NEW EXHAUST GRILLES AS SHOWN. REFER TO THE ARCHITECTURAL FOR ED CHANGES. ADJUST THE DUCTWORK TO MATCH

OWS TO MATCH THE EXISTING.

S IN THE WASHROOMS TO REMAIN.

NG CONDENSATE PIPING FROM THE UNIT ' IN LENGTH NEAR WINDOW, DROP THE PIPING RIGID PIPES.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work. ISSUE OR REVISION No.DescriptionDate1ISSUED FOR REVIEWFEB 18, 20252ISSUED FOR TENDERMAR 13, 2025  $\mathbf{O}$ OJE PR **ATION** BOARD NOV SCHOOL Ш  $\mathbf{C}$ 5205 New Street, Burlington, Ontario, L7L 1V3 HALTON CATHOLIC DISTRICT S СU ISION 7 SCE  $\triangleleft$ PROFESSIONAL SEAL : PROFESSIO, M.K. AHMEL 100069234 DWG TITLE : HVAC LAYOUT- SECOND FLOOR RCEI REGAL CONSULTING ENGINEERS INC. CONSULTING MECHANICAL & ELECTRICAL ENGINEERS 208 Wyecroft Road, Suite 200, Oakville, Ontario L6K 3S3 PHONE: (905)844–3913 www.regal-eng.com DATE : FEBRUARY 2025 SCALE : 1:100 DRAWN BY: MS CHECKED BY : MA DWG STATUS : TENDER PROJECT No. : 2025-476 REVISION M4.1



Date FEB 18, 2025 MAR 13, 2025

BOARD

5205 New Street, Burlington, Ontario, L7L 1V3 HALTON CATHOLIC DISTRICT SCHOOL

MA

REVISION

| $\langle \rangle$ | EXISTING SPRINKLER PIPING AND UPRIGHT SPRINKLER<br>HEADS TO REMAIN.   |
|-------------------|---|
| ➁                 | CONTRACTOR TO REPLACE EXISTING SPRINKLER UPRIGHT<br>HEADS WITH THE NEW SPRINKLERS WITH THE<br>DOWNWARD HEADS. EXISTING SPRINKLER PIPING TO<br>REMAIN.CONTRACTOR TO ALLOW FOR PIPE FREEZING<br>DURING THE REPLACEMENT OF SPRINKLER HEAD. |

#### **GENERAL SPECIFICATION**

#### DEFINITIONS

- 1. WHEREVER THE TERM "INSTALL" IS USED IT MEANS INSTALL AND CONNECT
- COMPLETE. 2. WHEREVER THE TERM "SUPPLY" IS USED IT MEANS SUPPLY ONLY.
- 3. WHERE THE TERM "PROVIDE" IS USED IN RELATION TO EQUIPMENT, ETC., IT
- MEANS "SUPPLY, INSTALL, CONNECT, AND COMMISSION. 4. WHEREVER THE TERM "REMOVE" IS USED IT MEANS DISCONNECT AND DISPOSE FROM THE BUILDING AND SITE.

#### ABBREVIATIONS

- . "N" NEW ITEM TO BE SUPPLIED AND INSTALLED.
- 2. "EX" EXISTING ITEM TO REMAIN. 3. "REL" RELOCATE EXISTING ITEM TO NEW LOCATION.
- 4. "REM" REMOVE EXITING ITEM.
- GENERAL REQUIREMENTS
- 1. THE DRAWINGS AND SPECIFICATIONS WILL BE READ WITH ARCHITECTURAL DRAWINGS. THE OWNER'S BUILDING REQUIREMENTS, THE LEGEND, AND SPECIFICATIONS OF THE DRAWING. MAXIMUM CONDITIONS WILL GOVERN. REVIEW MECHANICAL DRAWINGS AND PROVIDE POWER TO ALL MECHANICAL DEVICES WHICH MAY BE ABSENT FROM THE ELECTRICAL DRAWINGS. ACCURATE DIMENSIONS FOR THE WORK MUST BE OBTAINED FROM
- ARCHITECTURAL OR ACTUAL MEASUREMENT ON THE SITE. 3. VISIT THE SITE PRIOR TO TENDER AND VERIFY ALL CONDITIONS AND DIMENSIONS, INCLUDING LOCATIONS OF EXISTING CAPPED SERVICES, AND ALL
- FOR ANY REROUTING OF EXISTING AND/OR NEW SERVICES AND EQUIPMENT IN TENDER PRICE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY. 4. REPORT TO THE ENGINEER ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS,
- ERRORS, DEPARTURES FROM BUILDING BYLAWS AND/OR FROM GOOD PRACTICE PRIOR TO TENDER CLOSING
- PROVIDE ALL WORK IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, AND LOCAL BY-LAWS. 6. APPLY FOR OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED PRIOR TO COMMENCEMENTS OF CONSTRUCTION. INCLUDE ALL PROVINCIAL AND
- FEDERAL SALES TAXES. 7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SCHEDULE TO MEET THE PROJECT COMPLETION DATE AND ALL SPECIFIED INTERIM SCHEDULES. 8. COMPLY WITH THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE.
- 9. MAKE GOOD ALL DAMAGES TO ADJACENT WORK, PROVIDE ALL CUTTING, PATCHING. FLASHING WORK AND CLEAN-UP OF FLOORS. WALLS. CEILINGS. ETC. 10. PROVIDE PROPER SHOP DRAWINGS OF ALL SPECIFIED PRODUCTS AND SUBMIT
- FOR APPROVAL TO THE ARCHITECT AND ENGINEER. 11. DURING PROGRESS OF WORK, SUBSTITUTE PRODUCTS WILL ONLY BE CONSIDERED WHEN TENDERED PRODUCTS BECOME UNOBTAINABLE AND WRITTEN PROOF IS
- SUBMITTED. 12. THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTE PRODUCTS SHALL BE EQUAL TO THE SPECIFIED PRODUCTS. IMPLEMENTATION OF SUBSTITUTE PRODUCTS IS SUBJECT TO THE REVIEW OF PROPERLY SUBMITTED SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER.
- 13. ASSUME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATES AND OR SUBSTITUTIONS. MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL
- ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES. 14. PROVIDE THE OWNER WITH A WRITTEN WARRANTY. FOR ALL LABOUR. MATERIALS. AND EQUIPMENT IN THIS CONTRACT. FOR A PERIOD OF ONE YEAR COMMENCING AT SUCH TIME AS THE OWNER, OR HIS REPRESENTATIVE, DEEMS THE WORK ACCEPTABLE.
- 15. OBTAIN AND PAY FOR ONE (1) SET OF TRANSPARENCIES AND ONE (1) SET OF WHITE PRINTS. MARK PRINTS TO ACCURATELY INDICATE INSTALLED WORK AND TRANSFER ALL INFORMATION ONTO THE SET OF TRANSPARENCIES. UPON COMPLETION OF THE WORK SUBMIT THE COMPLETED RECORD DRAWINGS AND TRANSPARENCIES TO THE ENGINEER AND THE OWNER.
- 16. ASSEMBLE THREE (3) MANUALS, EACH CONTAINING DATA SHEETS, BROCHURES, OPERATING. MAINTENANCE. RECOMMENDED SPARE PARTS. AND LUBRICATING INSTRUCTIONS AND A COMPLETE SET OF REVIEWED SHOP DRAWINGS AND BIND IN HARD SECTIONS AND VOLUMES. PRESENT ONE (1) COPY FOR REVIEW BY CONSULTANT. MAKE ALL CORRECTIONS REQUESTED BY THE CONSULTANT AND RESUBMIT FOR REVIEW
- 17. INCLUDE COST OF PREMIUM IN THE TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO MAINTAIN ALL MECHANICAL SERVICES IN OPERATIONS. AND TO COMPLETE THE WORK SUBMISSION FOR EXTRA OR DELETED WORK. 18. PROVIDE A COMPLETE COST BREAKDOWN OF ALL MATERIALS. EQUIPMENTS AND
- LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION FOR EXTRA OR DELETED 19. CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH
- EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT 20. INSTALL ALL PIPING IN THE BEST WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES. 21. PROVIDE SLEEVES FOR ALL NEW PIPING THROUGH EXISTING SLAB, BEAMS, SLAB
- TO SLAB WALL ETC. WHERE INDICATED AND/OR REQUIRED. OBTAIN BASE BUILDING STRUCTURAL ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF
- 22. IDENTIFY EACH PIPED AND DUCTED SERVICE COMPLETE WITH DIRECTIONAL FLOW ARROWS. LOCATE IDENTIFICATION AND FLOW ARROWS NOT MORE THAN 12M (40') APART IN STRAIGHT RUNS OF PIPES AND DUCTS. USE WORDING INDICATED ON THE MECHANICAL LEGEND. USE 50MM(2") HIGH STENCIL LETTERS. 23. ALL WALL AND FLOOR OPENINGS SHALL BE PACKED AND SEALED WITH AN
- APPROVED FIRE RESISTANT INSULATION TO 25MM (1") FROM END SIDE OF OPENING ON BOTH SIDES OF FLOOR OR WALL. REMAINING PORTION SHALL BE SEALED WITH AN APPROVED FIRE STOP SUBSTANCE EQUAL TO 'DOW CORNING' #3-6548 SILICON RTV FOAM PENETRATION SEALANT.
- 24. IN ALL AREAS REQUIRING CORE DRILLING THROUGH EXISTING FLOOR SLAB FOR MECHANICAL SERVICES, ETC. ALLOW FOR ALL NECESSARY RADIOGRAPHY TO LOCATE HIDDEN ELECTRICAL SERVICES, STRUCTURAL REINFORCING, ETC., AND INCLUDE ALL COSTS IN TENDER PRICE. CO-ORDINATE THIS WORK WITH OWNER COORDINATOR FOR TIME DURATION AND LOCATION REQUIRED AND ADHERE TO THE OWNER'S REQUIREMENTS. SUBMIT CORE DRILLING PLAN TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK
- 25. CHECK AND VERIFY LOCATION OF EXISTING MECHANICAL AND ELECTRICAL INTERFERENCES IN CEILING SPACE OF FLOOR BELOW AND/OR BELOW FLOOR SLAB IN ALL AREAS REQUIRING CORE DRILLING AND/OR CUTTING OF FLOOR SLAB ON GRADE AND ENSURE COMPATIBILITY OF AREA BELOW TO THE SATISFACTION OF THE OWNER
- 26. ALL SHUTDOWNS OF ANY PORTION OF THE EXISTING BASE BUILDING SYSTEMS SHALL BE PERFORMED BY THE OWNER'S BUILDING OPERATIONS STAFF AND/OR COORDINATED WITH THE OWNER FOR TIME AND DURATION OF INTERRUPTIONS AND ADHERE TO THE OWNER'S INSTRUCTIONS IN THE REGARD. COST FOR SHUTDOWNS, DRAINING AD REFILLING OF BASE BUILDING SYSTEMS SHALL BE INCLUDED IN THE TENDER PRICE.
- 27. PROVIDE ALL ACCESS DOORS WHERE SHOWN AND/OR REQUIRED BY SITE CONDITIONS. IN CEILINGS OR WALLS. ACCESS DOORS SHALL BE EQUAL TO MILCOR OR LEHAAGE, AND MUST BE COMPATIBLE WITH CEILING/WALL TYPE AND FINISH INSTALLATION TO COMPLY WITH THE ARCHITECT'S APPROVAL. ACCESS DOORS IN RATED CEILINGS OR WALLS SHALL BE ULC APPROVED FOR THE APPLICATION.
- 28. RE-USE EXITING MATERIALS AND EQUIPMENT WHEREVER POSSIBLE AND PROVIDE NEW ONLY WHERE REQUIRED AND AS SPECIFIED TO ENSURE A COMPLETE INSTALLATION. ALL EQUIPMENT, MATERIALS AND ASSOCIATED CONTROLS NOT USED IN THIS CONTACT SHALL BE RETURNED TO OWNER.
- 29. CHECK AND VERIFY ON SITE FOR ROUTING OF NEW DUCT WORK, PIPING AND LOCATION OF NEW EQUIPMENT AND INCLUDE IN TENDER PRICE FOR ANY RELOCATIONS OF EXITING SERVICES OR ADJUSTMENTS OF NEW SERVICES OF EQUIPMENTS AS REQUIRED TO SUIT SITE CONDITIONS. PROVIDE OFFSETS IN PIPING AND CUT WORK AS REQUIRED TO AVOID INTERFERENCES. 30. SEAL AIR TIGHT ALL AROUND DUCT WORK AND PIPING PENETRATIONS THROUGH
- PARTITIONS ABOVE CEILING WITH APPROVED SEALANT FOR FIRE RATED ASSEMBLIES. 31. ALL DEFICIENCIES MUST BE COMPLETE WITH 4 WEEKS UPON NOTICE ISSUED BY THE ENGINEER. THE ENGINEER MAY HAVE THE DEFICIENCIES COMPLETED BY
- OTHERS AT THE CONTRACTOR'S EXPENSE, IF THE DEFICIENCIES ARE NOT CORRECTED 32. ALL ELECTRIC BASEBOARD AND FORCED FLOW HEATER SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL ELECTRIC DUCT HEATERS ARE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR, BUT WIRED BY

ELECTRICAL.

- DIVISION 15 SHALL FURNISH ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY FOR THE PROPER AND TIMELY COMPLETION OF THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED.
- 2. THE SPECIFICATIONS SHALL BE CONSIDERED AS AN INTEGRAL PART OF THE PLANS WHICH ACCOMPANY THEM, NEITHER THE PLANS NOR THE SPECIFICATIONS SHALL BE USED ALONE. ANY ITEMS OR SUBJECT OMITTED FROM ONE. BUT WHICH IS MENTIONED OR REASONABLY IMPLIED IN THE OTHER, SHALL BE CONSIDERED AS PROPERLY AND SUFFICIENTLY SPECIFIED, AND MUST, THEREFORE. BE PROVIDED. MISINTERPRETATIONS OF EITHER THE PLANS OR THE SPECIFICATIONS SHALL NOT RELIEVE THIS DIVISION OF RESPONSIBILITY.
- 3. IT IS THE INTENT THAT THE DRAWINGS AND SPECIFICATIONS DESCRIBE COMPLETE MECHANICAL SYSTEMS, ALL MATERIALS AND EQUIPMENT AND THE FURNISHING OF ALL LABOUR REASONABLY IMPLIED BY THESE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE INCLUDED TO PROVIDE SYSTEMS READY FOR SATISFACTORY OPERATION. REFER TO ALL OTHER TRADE DRAWINGS AND SPECIFICATIONS TO FULLY CO-ORDINATE THE INSTALLATION OF THE

#### STANDARD OF ACCEPTANCE

- 1. THE ITEM NAMED AND SPECIFIED BY MODEL OR CATALOGUE NUMBER FORMS PART OF SPECIFICATION AND SETS THE STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP.
- 2. TENDER PRICES SHALL BE BASED ON THE SPECIFIED EQUIPMENT LISTED AS ACCEPTABLE PRODUCT OR AS BASE BID. ALL ALTERNATES OF LISTED EQUIPMENT MUST BE LISTED SEPARATELY ON THE TENDER FORM WITH COST SAVINGS. THE OWNERS AND THE CONSULTANT HAVE THE OPTION OF ACCEPTING OR REJECTING ALTERNATE EQUIPMENT.
- 3. THE USE OF ALTERNATE EQUIPMENT SUCH AS HEATING/ COOLING UNITS. FANS. COMPRESSOR/CHILLER UNITS WILL REQUIRE THE SUBMISSION OF DETAILED SCALE SHOP DRAWINGS OF PROPOSED INSTALLATION DETAILS INCLUDING DUCTWORK, PIPING, ELECTRICAL. STRUCTURAL CONNECTIONS. LOADS AND SERVICE CLEARANCES.

#### CODES, REGULATIONS AND PERMITS

- 1. ALL MECHANICAL WORK SHALL BE INSTALLED, INSPECTED AND TESTED IN ACCORDANCE WITH GOVERNING CODES, RULES AND REGULATIONS OF THE MUNICIPALITY IN WHICH THE WORK IS PERFORMED AND ALSO OF PROVINCIAL AND FEDERAL AUTHORITIES HAVING JURISDICTION.
- 2. THE DIVISION 15 CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK. ARRANGE FOR INSPECTIONS AND TESTS AND PAY ALL FEES AND COSTS FOR THE PERMITS AND INSPECTIONS. ALL NECESSARY PERMITS SHALL BE OBTAINED IMMEDIATELY AFTER NOTIFICATION OF AWARD OF CONTRACT.
- 3. THE ONTARIO BUILDING CODE AND THE APPLICABLE REQUIREMENTS OF C.S.A., A.S.T.M. ANSI, U.L.C .. AND NFPA STANDARDS INCLUDING THEIR LATER AMENDMENTS, AS WELL AS PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS SHALL BE CONSIDERED PART OF THIS SPECIFICATION. LACK OF POSSESSION OF KNOWLEDGE OF ANY CODE OR STANDARD REQUIRED FOR PROPER COMPLETION OF THE WORK SHALL NOT CONSTITUTE SUFFICIENT REASON FOR DEVIATION THEREFROM.

#### **RECORD DRAWINGS**

1. CLEARLY RECORD ALL CONTRACT CHANGES AND DEVIATIONS FROM THE CONTRACT DRAWINGS ON A SET OF DRAWINGS AVAILABLE FROM THE GENERAL CONTRACTOR FOR THIS PURPOSE AND FORWARDED TO THE GENERAL CONTRACTOR AT THE COMPLETION OF THE PROJECT.

#### SITE VISIT

1. THIS CONTRACTOR SHALL VISIT THE SITE AND EVALUATE ALL EXISTING SITE CONDITIONS AS THEY MAY AFFECT THIS WORK. NO EXTRAS WILL BE ALLOWED FOR ANY EFFECTS FROM FAILING TO COMPLETE A COMPREHENSIVE SITE TOUR TO UNDERSTAND AND ACCOUNT FOR THE IMPACT OF EXISTING SITE CONDITIONS ON THE CONTRACT SCOPE OF WORK.

#### **CUTTING AND PATCHING**

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ALL CUTTING AND PATCHING REQUIRED IN THE SCOPE OF WORK AS DEFINED IN THE GENERAL CONDITIONS. ALL NEW FINISHES SHALL BE EQUAL TO THOSE OF SURROUNDING SURFACES FOR MATERIALS. COLOUR, TEXTURE AND WORKMANSHIP. THIS DIVISION SHALL CLEARLY MARK OUT ALL OPENINGS REQUIRED AND REVIEW WITH THE GENERAL CONTRACTOR BEFORE CUTTING PROCEEDS. THIS DIVISION SHALL INSTALL ALL OPENING FRAMES. SLEEVES DUCTWORK AND PIPING, LOUVRES, ETC., INTO THE BUILDING STRUCTURE CONSTRUCTION PROGRESSES. ANY ITEMS MISSED DURING CONSTRUCTION THAT MUST BE ADDED WILL BE THE RESPONSIBILITY OF THIS DIVISION AND BE CO-ORDINATED WITH THE GENERAL TIRADES.

#### **CO-ORDINATION**

- 1. CONFER AND COOPERATE WITH OTHER TIRADES IN ORDER TO ELIMINATE ANY UNNECESSARY DELAYS TO THE CONSTRUCTION SCHEDULE. WHERE DOUBT EXISTS REGARDING OTHER TIRADES. CONFER WITH THE SUPERINTENDENT WITHOUT DELAY FOR DETAILED INSTRUCTIONS CONCERNING HOW TO PROCEED WITH THE WORK. EXPEDITE DELIVERY OF ALL EQUIPMENT AND MATERIALS TO MEET CONSTRUCTION SCHEDULE.
- 2. ANY INTERFERENCE ISSUES THAT ARISE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DUCTWORK FABRICATION.

#### COMMISSIONIN

1. ENSURE THAT ALL EQUIPMENT AND SYSTEMS ARE OPERABLE AND SAFE FOR NORMAL OPERATION. ALL TESTING, ADJUSTING, BALANCING WORK AND RECORD KEEPING SHALL BE PERFORMED PRIOR TO COMMISSIONING. OPERATIONAL TESTS ON EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS SHALL BE PERFORMED PRIOR TO COMMISSIONING TO VERIFY THAT PRESSURE AND FLOW RATES MEET DESIGN REQUIREMENTS.

#### INTERRUPTION AND DEMOLITION OF EXISTING SERVICES ARRANGE, SCHEDULE AND PERFORM WORK WITH MINIMUM DISTURBANCE TO

EXISTING FACILITIES AND SERVICES. 2. SUBMIT A COMPLETE SCHEDULE OF SERVICE INTERRUPTIONS AND CHANGEOVERS WITH APPROXIMATE DATES REQUIRED. DURATIONS AND TIMES OF DAY. FOR

#### SHOP DRAWINGS

APPROVAL BEFORE PROCEEDING.

- SHOP DRAWINGS AND DATA SHEETS FOR EQUIPMENT INTENDED FOR INSTALLATION UNDER THIS CONTRACT SHALL BE SUBMITTED FOR REVIEW. AFTER CHECKING AND WHEN REVIEWED, COPIES WILL BE RETURNED TO THE CONTRACTOR.
- 2. SAMPLES, DRAWINGS, CATALOGUES, SPECIFICATIONS, ETC. SUBMITTED FOR APPROVAL. SHALL BE PROPERLY LABELLED INDICATING SPECIFIED SERVICES FOR WHICH MATERIAL OR EQUIPMENT IS TO BE USED. THE DRAWINGS AND INFORMATION SHALL INDICATE THE PROJECT NAME AND THE ARTICLE NUMBER OF SPECIFICATIONS RELATING TO SHOP DRAWINGS. THE CONTRACTOR'S NAME AND CONTRACTOR'S SIGNAL JRE SHALL APPEAR ON ALL COPIES INDICATING THAT THE DRAWINGS HAVE BEEN CHECKED BY THE CONTRACTOR. DRAWINGS NOT SO DESIGNATED WILL BE RETURNED FOR CORRECTION. 'FAX' OR ELECTRONIC COPIES OF SHOP DRAWINGS ARE NOT ACCEPTABLE. PROVIDE COMPLETE, DETAILED WIRING AND CONTROL DIAGRAMS FOR ALL MECHANICAL EQUIPMENT FOR THIS PROJECT. THESE DRAWINGS SHALL BE SUBMITTED AT THE TIME OF SHOP DRAWING REVIEW. EQUIPMENT SHOP DRAWINGS WILL BE REJECTED UNLESS COMPLETE WIRING AND CONTROLS INFORMATION IS
- SUBMIT ELECTRONIC COPIES OF ALL SHOP DRAWINGS. ELECTRONIC SUBMISSIONS WILL BE REVIEWED.

**ARRANGEMENT OF PIPING AND DUCTWORK** 

1. CONCEAL PIPING AND DUCTWORK WHEREVER POSSIBLE BY RUNNING IT IN PIPE SPACES, DUCT SHAFTS, CHASES. CEILING SPACES AND FURRED OUT SECTIONS

TESTING

# ACCESS DOOR

# **BUILDING STRUCTURE**

- FIRE SEPARATION

# DRAWINGS.

- H.V.A.C & DUCT WORK
- SERVICES.

- TEST AND BALNCE REPORT TO THE ENGINEER AND OWNER IN AREAS WITH
- 14. CALIBR 15. UNLESS LONGE

#### OF WALLS AND COLUMNS. DO NOT RUN PIPING OR DUCTWORK EXPOSED IN FINISHED AREAS WITHOUT OBTAINING PERMISSION OF THE ENGINEER.

#### 2. PIPING OR OTHER EQUIPMENT OR DEVICES IN RETURN AIR PLENUMS SHALL HAVE FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THAT APPLICATION.

DIVISION 15 SHALL PERFORM TESTS ON ALL PIPING AND EQUIPMENT SYSTEMS AS EQUIPMENT IN VARIOUS SECTIONS OF THESE SPECIFICATIONS AND SHALL PROVIDE ALL NECESSARY PUMPS, COMPRESSORS, GAUGES, RECORDERS AND TEMPORARY CONNECTIONS TO THE PIPING AND EQUIPMENT

2. ALL TESTS ON PIPING AND EQUIPMENT SHALL BE CONDUCTED BEFORE CONCEALMENT AND BEFORE THE APPLICATION OF PAINT AND INSULATION. AMPLE NOTICE OF THE SCHEDULING OF SUCH TESTS SHALL BE GIVEN. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE AUTHORITIES HAVING JURISDICTION.

#### 1. SUPPLY ACCESS DOORS FOR FURRED CEILINGS OR SPACES FOR SERVICING FOUIPMENT AND DUCT ACCESSORIES OR FOR INSPECTION OF LIFE SAFETY OR OPERATING DEVICES. SUPPLY STAINLESS STEEL ACCESS DOORS FOR TILED. MARBLE, TERRAZZO OR SPECIAL SURFACES. STANDARD OF ACCEPTANCE: ZURN, ACUDOR, ANCON.

#### **MAINTENANCE INSTRUCTIONS**

SUPPLY CERTIFIED PERSONNEL TO INSTRUCT OWNERS OPERATING STAFF ON OPERATION OF MECHANICAL EQUIPMENT. SUPPLY MAINTENANCE SPECIALIST PERSONNEL TO INSTRUCT OPERATING STAFF ON MAINTENANCE AND ADJUSTMENT OF MECHANICAL EQUIPMENT AND ANY CHANGES OR MODIFICATIONS IN EQUIPMENT MADE UNDER THE TERMS OF THE GUARANTEE. PROVIDE INSTRUCTION TO OWNERS STAFF DURING REGULAR WORK HOURS PRIOR TO ACCEPTANCE OF THE SYSTEMS FOR REGULAR OPERATION.

#### INITIATE NO DRILLING. CUTTING OR WELDING OF THE BUILDING STEEL OR CONCRETE CONSTRUCTION FOR THE PURPOSE OF SUPPORTING MATERIALS OR EQUIPMENT WITHOUT PRIOR APPROVAL OF THE PRIME CONSULTANT.

2. HANGERS TO STEEL SHALL BE BEAM CLAMPS OR FLANGE HANGERS WHERE POSSIBLE. WHERE ATTACHMENT IS PERMITTED, WELDING STUDS OF A SIZE NOT LARGER THAN 13MM DIAMETER MAY BE USED. IF LARGER SIZE BOLTS ARE REQUIRED TO SUPPORT THE EQUIPMENT, THESE SHALL BE ATTACHED BY STEEL CUPS OR BRACKETS, SECURED TO THE BUILDING STEEL BY WELDING OR BOLTING AS APPROVED BY THE ENGINEER.

### PIPING AND EQUIPMENT IDENTIFICATION

1. IDENTIFY ALL PIPING SYSTEMS. INDICATE PIPE SIZE, SERVICE AND DIRECTION OF

2. THE LETTERING SHALL BE PROPORTIONAL TO THE OUTSIDE DIAMETER OF THE PIPE OR COVERING RANGING FROM 13 MM HIGH TO 20 MM O.D., PIPE OR COVERING UP TO 100 MM HIGH ON 300 MM O.D. PIPE OR COVERING. BRADLEY PIPE TAGS SHALL BE THE STANDARD OF LABELS. PIPES SMALLER THAN 20 MM O.D. PIPE OR COVERING MAY BE BANDED WITH COLOURED PLASTIC TAPE IN LIFLI OF PAINT AND THE CONTENTS IDENTIFIED BY MEANS OF "DYMO" EMBOSSED PLASTIC LABELS. STENCIL A DIRECTION-OF-FLOW ARROW ON EACH COLOUR BAND. PIPE IDENTIFICATION SHALL BE APPLIED AT EACH HORIZONTAL OR VERTICAL CHANGE IN DIRECTION AND A MAXIMUM OF 12 M. APART.

3. ALL EQUIPMENT SHALL BE IDENTIFIED WITH 25 MM HIGH LETTERS IN LAMACOID ENGRAVED SELF ADHESIVE NAMEPLATES.

SUPPLY AND INSTALL ALL FIRE DAMPERS AND FIRE STOP FLAPS C/W FUSIBLE LINKS AND ACCESS PLATES AS REQUIRED UNDER THE ONTARIO BUILDING CODE. DAMPERS SHALL BE TYPE 'B', 100LL FREE AREA UNLESS NOTED AND BE U.L.C. LISTED FOR THE SPECIFIC APPLICATION AND INSTALLATION ORIENTATION. 2. INSTALL FIRE DAMPERS IN ACCORDANCE WITH NEPA 90A AND ULC STANDARDS

WITH BACKUP ANGLES AND BREAKAWAY JOINTS. PROVIDE DUCT ACCESS DOORS AS WELL AS DRYWALL ACCESS DOORS FOR COMPLETE ACCESSIBILITY.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATIONS OF ALL FIRE RATED SEPARATIONS APPARENT FROM MECHANICAL OR ARCHITECTURAL

### **GRILLES AND DIFFUSERS**

4. GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE PRODUCT OF ONE MANUFACTURER FOR GENERIC TYPE, EG. GRILLES AND REGISTERS BY ONE, DIFFUSERS BY ONE, OR SAME. REFER TO THE SCHEDULE ON THE DRAWINGS; BASE BID: E.H. PRICE

#### ALL DUCT WORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST ASHRAE AND SMACNA RECOMMENDATIONS 2. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHEN

ACOUSTIC INSULATION IS INSTALLED. INCREASE DIMENSIONS ACCORDINGLY. 3. MAKE GOOD ALL EXCISING INSULATION WHEN CONNECTION TO EXISTING 4. PROVIDE DUCT ACCESS DOORS, MINIMUM 375 MM X 300 MM (15" X 12") SIZE

FOR EQUIPMENT SUCH AS COILS (BOTH SIDES OF COIL), FIRE AND/OR SMOKE DAMPERS, CONTROL AND/OR BALANCING DAMPERS, HEAT AND/OR BALANCING DAMPERS, HEAT AND/OR SMOKE DETECTORS, BACK-DRAFT DAMPERS, ETS. AS REQUIRED FOR PROPER SERVICING. 5. FLEXIBLE DUCTS SHALL BE FLEXMSTER OR APPROVED EQUAL, TRIPLE LOCK

ALUMINUM FLEXIBLE DUCTS, SPIRAL WOUND ALUMINUM STRIP WITH TRIPLE MECHANICAL LOCK SEAM. DUCTS SHALL CONFORM TO NFPA-80A AND UL-181 FLEXIBLE DUCTS SHALL BE OF SIZE EQUAL TO DIFFUSER NECK SIZE. USE GEAR CLAMPS FOR SECURING FLEXIBLE DUCTS TO RIGID DUCT CONNECTIONS SUCH AS SPIN-ON FITTING, ETC. AND NECKS OF DIFFUSERS AND SEAL AIR TIGHT WITH DUCT TAPE. ROUND FLEXIBLE DUCTS SHALL BE MAXIMUM 2.4M (8'-0") LONG AND REMAINDER SHALL BE ROUND RIGID DUCT

7. FINAL LOCATION OF NEW SUPPLY AIR DIFFUSERS, BOOTS, LIGHT PROFFERS, REGISTERS, RETURN AND EXHAUST AIR GRILLES SHALL BE COORDINATED WITH HE LATEST ARCHITECTURAL REFLECTED CEILING PLANS. 8. RELOCATED AND REUSE EXISTING DIFFUSERS. AND GRILLES AS INDICATED ON

PLAN. PROVIDE NEW DUCT WORK ONLY IF NECESSARY AND REUSED EXISTING WHEREVER POSSIBLE AND WHERE CONDITIONS PERMIT. 9. PROVIDE FIRE DAMPERS WHERE SHOWN ON DRAWING AND/OR WHERE REEQUIPPED BY LOCAL AUTHORITIES AND/OR APPLICABLE CODES IN DUCT

SECTIONS COMPLETE WITH APPROVED ACCESS DOORS. 10. FIR DAMPERS SHALL BE ULC LABELED, FABRICATED AND INSTALLED IN DUCT SLEEVE IN ACCORDANCE WITH NFPA-90A, CUA-90-1 AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.

. PROVIDE NEW BALANCING DAMPERS FOR ALL NEW AND EXCISING DUCT BRANCHES. AND IN ALL LOCATIONS NECESSARY FOR BALANCING THE AIR SYSTEMS, WITH SUITABLE MEANS OF CEILING ACCESS, PROVIDE VOLUME DAMPERS FOR ALL NEW SUPPLY AIR DIFFUSERS AND REGISTERS. 12. TEST, BALANCE, AND ADJUST ALL AIR SYSTEM TO OBTAIN THE DESIGN AIR QUANTITIES. SPECIFIED FLOW RATES AND TEMPERATURE RISES/DROPS ACROSS TERMINAL HEATING/COOLING ELEMENTS, COILS AND HEAT EXCHANGER INDICATED ON PLANS. BALANCING VALVES AND BALANCE FITTINGS. SUBMIT AIR SYSTEM

DRYWALL CEILINGS, THIS WROK SHALL BE DONE PRIOR TO ENCLOSING OF CELLING SPACE. 13. PROVIDE ALL CONTROLS, WIRING AND APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEMS.

| CALIBRATE AS REQ | UIRED, EXISTING TH | HERMOSTATS NOTED T | O BE REUSED OR |
|------------------|--------------------|--------------------|----------------|
| RELOCATED AND SI | UBMIT WRITTEN REF  | PORT TO ENGINEER.  |                |
| UNLESS OTHERWISE | NOTED, DUCT WO     | RK SHEET METAL TO  | BE AS FOLLOWS: |
| LONGEST SIDE     | US GAUGE           | LONGEST SIDE       | US GAUGE       |
| UP TO 12"        | 26                 | 31" TO 56"         | 22             |
| 13" TO 30"       | 24                 | 58" TO 84"         | 20             |
|                  |                    |                    |                |
|                  |                    |                    |                |

PITTSBURGH SEAMS SHALL BE USED ON LONGITUDINAL JOINTS AND HAMMER SEAMS TO MAKE AIR TIGHT. CROSS BREAK AL SHARP 90 DEGREE ELBOW.

16. ALL RADIUS ELBOWS MUST BE AT LEAST 1-1/2 TIMES THE WIDTH OF THE DUCT. OR PROVIDE TURNING VANES IN A SHARP 90 DEGREE ELBOW. 17. THE SUPPLY AND RETURN DUCT WORK 10'-0" FROM THE AIR HANDLING UNIT SHALL BE LINED WITH 1" ACOUSTIC FIBREGLASS INSULATION AND NEOPRENE COATED. THE DUCT SIZES ON THE DRAWINGS ARE INTERNAL, INCREASE THE

- DUCT SIZE TO SUIT THE INSULATION. 18. CEILING SPACE USED AS RETURN AIR PLENUM SHALL NOT CONTAIN ANY
- COMBUSTIBLES. 19. DUCT WORK MUST BE INDEPENDENTLY SUPPORTED FROM THE BUILDING
- 20. FLEXIBLE DUCTS SHALL BE ALUMINUM TYPE AND MUST NOT EXCEED 8 LINEAR
- FEET LONG. CLAMPS OR SCREWS MUST BE USED WHERE FLEX ARE SECURED TO RIGID DUCTS. DUCT TAPES ALONE ARE NOT PERMITTED. 21. PROVIDE DUCT PLENUM FOR ALL ROOF MOUNTED EXHAUST FANS. AND THE PLENUM SHALL BE INSULATED WITH 1" FIBREGLASS TO PREVENT

CONDENSATION. 22. ALL EXISTING DUCT WORK SHOULD BE CLEANED OF ALL DIRT.

**DUCT WORK INSULATION** 

- ALL INSTALLATION SHALL BE IN ACCORDANCE TO ASHRAE GUIDELINES. 2. PROVIDE 25MM (1") THICK ACOUSTIC INSULATION FOR NEW SUPPLY, RETURN OR EXHAUST DUCTWORK 10'-0" FROM AIR HANDLING UNIT, 24.03 KG/M<sup>3</sup> (1.5 LB/CU.FT. DENSITY NEOPRENE FACE) INTERNAL FIBERGLASS INSULATION. REMAINDER OF RIGID SUPPLY AIR DUCTWORK SHALL BE THERMALLY INSULATED.
- 3. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHEN ACOUSTIC INSULATION IS INSTALLED. INCREASE DIMENSIONS ACCORDINGLY.
- 4. INSULATE ALL NEW SUPPLY AIR RIGID DUCTWORK UP TO 800MM (32") WIDE OR DIAMETER WITH 25MM (1") THICK FLEXIBLE GLASS FIBRE DUCT INSULATION, 18.42 KG/M<sup>3</sup> (1.5 LB/CU.FT) DENSITY WITH FIRE RESISTIVE GLASS FIBRE REINFORCED THICK GLASS FIBRE DUCT INSULATION 48.06 KG/M<sup>3</sup> (3LB/CU.FT.)
- DENSITY WITH FIRE RESISTIVE GLASS FIBRE REINFORCED KRAFT PAPER AND ALUMINUM FOIL VAPOUR BARRIER. 5. FOR EXTERIOR INSULATION, PROVIDE 2" THERMAL INSULATION ON THE EXTERIOR AND 1" ACOUSTIC LINING. THE INSULATION SHOULD BE RIGID INSULATION
- COMPLETE WITH ALUMINUM JACKETS. INSULATION: ASTM C612; RIGID, NONCOMBUSTIBLE BLANKET.
- .1 'KSI' VALUE : ASTM C518,0.036 AT 75.2 F (24 °C).
- .2 MAXIMUM SERVICE TEMPERATURE: 250 F (121 °C). .3 MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME.
- .4 DENSITY: 48 KG/CU M. VAPOUR BARRIER JACKET
- .1 KRAFT PAPER WITH GLASS FIBRE YARN AND BONDED TO ALUMINIZED FILM. .2 MOISTURE VAPOUR TRANSMISSION: ASTM E96; 0.04 PERM. .3 SECURE WITH PRESSURE SENSITIVE TAPE.
- ALUMINUM JACKET: ASTM B209M. .1 THICKNESS: 0.40 MM SHEET.
- .2 FINISH: SMOOTH. .3 JOINING: LONGITUDINAL SLIP JOINTS AND 2" (50 MM) LAPS.
- .4 FITTINGS: 0.4 MM THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER. .5 METAL JACKET BANDS: 3/8" (10 MM) WIDE; 0.015" (0.38 MM) THICK

### **GENERAL NOTES**

1. FINAL LOCATIONS OF AL THERMOSTATS SHALL BE CO-ORDINATED WITH ARCHITECT AND GENERAL CONTRACTOR TO SUIT FURNITURE LAYOUT AND TO AVOID INTERFERENCES WITH OTHER DEVICES. DISCONNECT AND RELOCATE EXISTING THERMOSTATS OUTWARD AS REQUIRED TO SUIT THE REFINISHING OF EXISTING WALL.

#### AIR BALANCING

- 1. THE CONTRACTOR MUST ENSURE THAT ALL EQUIPMENT ARE COMPLETE WITH ALL NECESSARY CONTROLS TO PROVIDE COMPLETE OPERATIONAL SYSTEMS.
- 2. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND WIRING TO SUPPORTS SHALL BE FROM THE BUILDING STRUCTURE.
- 3. SUBMIT 2 SETS OF OPERATING MANUALS OF ALL EQUIPMENT TO THE ENGINEER. 4. THE CONTRACTOR MUST INCLUDE THE STARTUP. COMMISSIONING AND AIR BALANCING IN HIS PRICE. SUBMIT TESTING AND BALANCING REPORTS TO THE
- ENGINEER PRIOR TO THE HOLDBACKS BEING RELEASED. 5. SUBMIT A CERTIFICATE TO PROVE THAT ALL EQUIPMENT ARE CLEANED,
- LUBRICATED AND TESTED. ALL GAUGES AND INSTRUMENTS MUST BE CALIBRATED PRIOR TO START-UP.
- ALL PIPING MUST BE PRESSURE TESTED TO 150% OF DESIGN CONDITIONS. PROVIDE A CERTIFICATE TO THE ENGINEER. THE AIR BALANCING SUBCONTRACTOR MUST BE APPROVED BY THE ENGINEER
- PRIOR TO THE ACTUAL WORK BEING DONE. CORRECT ALL DEFICIENCIES NOTED BY THE BALANCING CONTRACTOR. 8. ALL NEW OR RE-USED, RE-INSTALLED EQUIPMENT MUST BE CLEANED.
- LUBRICATED, AND TESTED. THEN WORK IS TO BE DOWN BY QUALIFIED AND CERTIFIED TECHNICIAN. PROVIDE A CERTIFICATE TO THE ENGINEER STATING COMPLETION OF THE WORK. 9. APPROVED BALANCING CONTRACTOR- COMPANY SPECIALIZING IN THE TESTING,
- ADJUSTING AND BALANCING OF SYSTEMS WITH A MINIMUM OF 5 YEARS OF DOCUMENTED EXPERIENCE AND SHALL BE CERTIFIED BY AABC & NEBB. PIPE SYSTEMS

ALL PIPING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANSL/ASME B31-1. UNLESS OTHERWISE SPECIFIED HEREIN. PROVIDE INSERTS, SLEEVES AND ANCHORS WHERE NECESSARY AND COORDINATE WITH OTHER TRADES TO THE FULLEST EXTENT IN THE PROVISION OF OPENINGS, CHASES, ETC. TO ACCOMMODATE THE PIPING SYSTEMS.

PIPE GRADES AND SLOPES

- 20. DRAINS AND WASTE PIPING SHALL SLOPE DOWN IN THE DIRECTION OF FLOW AT THE RATE OF 2:11 PER FOOT FOR BO SIZE AND UNDER AND 1111 PER FOOT FOR 100 SIZE AND LARGER. WHERE SLOPES FOR PIPING SERVICES INDICATED HEREIN ARE LESS THAN THOSE ESTABLISHED BY APPLICABLE CODES AND REGULATIONS, THE LATTER SHALL GOVERN.
- 21. ALL WATER SUPPLY PIPING SHALL BE GRADED SO THAT THE SYSTEM MAY BE COMPLETELY DRAINED THROUGH RISERS, DRIPS AND FIXTURES. FOR THIS PURPOSE, DRAIN COCKS SHALL BE PROVIDED AT ALL LOW POINTS OF THE SYSTEM. DOMESTIC HOT AND COLD WATER PIPING SHALL GRADE UP IN THE DIRECTION OF FLOW AT THE RATE OF 2% CIRCULATION PIPING SHALL GRADE DOWN IN THE DIRECTION OF FLOW AT 2%.

DISSIMILAR METALS

- SEPARATE DISSIMILAR METALS IN ORDER TO PREVENT GALVANIC CORROSION. PROVIDE GASKETS OR SHIMS OF APPROVED MATERIALS TO AVOID ELECTROLYTIC
- ACTION. 3. USE DIELECTRIC UNIONS AND/OR FLANGES WHERE PIPING OF DISSIMILAR METALS ARE CONNECTED.

### PIPE EXTENSION AND CONTRACTION

- 1. ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID UNDUE STRESS AND DISTORTION DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR EXPANSION AND CONTRACTION BY THE USE OF EXPANSION LOOPS FOR OFFSETS. EXPANSION LOOPS SHALL BE INSTALLED IN THE LINE IN A COLD SPRUNG POSITION WITH PROPER ANCHORS AND GUIDES. STAINLESS BRAIDED EXPANSION LOOPS "METRALOOP" BY METRAFLEX INC.
- 2. PROVISION FOR EXPANSION AND CONTRACTION SHALL BE MADE ON THE BASIS OF 25 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR STEEL PIPE AND 40 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR BRASS OR COPPER PIPE.

#### ELEVATIONS

PROPOSED AND EXISTING ELEVATIONS. LOCATIONS, AND SIZES OF EXISTING SERVICES SHALL BE VERIFIED PRIOR TO STARTING WORK, INCLUDING BUILDING FLOOR, CEILING, AND STRUCTURAL STEEL, CONCRETE, AND WOOD ELEVATIONS.

PIPE HANGERS AND SUPPORTS

- 1. FABRICATE HANGERS, SUPPORTS AND SWAY BRACES IN ACCORDANCE WITH ANSL/ASME B31.1.
- 2. SUPPORT FROM STRUCTURAL MEMBERS. WHERE STRUCTURAL BEARINGS DO NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATIONS. SUSPEND HANGERS FROM STEEL CHANNELS OR ANGLES. DIVISION 15 SHALL PROVIDE SUPPLEMENTARY STRUCTURAL MEMBERS. DO NOT SUSPEND FROM METAL DECK. ANCHORING OF PIPING AND EQUIPMENT SHALL BE TO MANUFACTURER'S RECOMMENDATIONS.

#### SUBMIT ANCHORAGE SYSTE SUPPORTS WITH CALCULAT

#### SLEEVES AND ESCUTCHEONS

- PIPE SLEEVES: AT POINTS CONCRETE. SLEEVES OF: WITH LOCK SEAM JOINTS. WITH ANNULAR FIN CONTIN THROUGH FOUNDATIO WHERE SLEEVE EXTE CAULK AND SEAL WHEN I
- 2. FOR PIPES PASSING THROU INSULATED ALUMINUM CONI TAMPER PROOF VENT TOP ROOF FLASHING TO CLAMP

#### FIRESTOPPING

#### WHERE PIPES AND DUCTS PAS PARTITIONS, PACK SPACE WITH HAVING JURISDICTION.

#### DIVISION 15 TO PROVIDE ALL M FIRESTOPPING FOR DIVISION 15 PIPING MATERIALS

| XT-EXTERIOR<br>IT-INTERIOR |              | R—В<br>6.—А  |   |
|----------------------------|--------------|--------------|---|
|                            | EXT          | INT          | B |
|                            | $\checkmark$ |              |   |
|                            |              |              |   |
| SANITARY<br>SEWERS — ALL   |              | $\checkmark$ |   |
| SIZES                      |              | $\checkmark$ |   |
|                            |              | $\checkmark$ |   |
|                            |              | $\checkmark$ |   |
| VENTING                    |              | V            |   |
|                            |              | $\checkmark$ |   |
| COLD WATER                 |              |              |   |
| DOMESTIC HOT<br>WATER      |              | $\checkmark$ |   |
|                            |              |              |   |

|   | PIPE    |
|---|---------|
| SERVICE   |         |
| SERVICE   |         |
|   | 20      |
| CW (TYPE 'L' COPPER)                                | 8'-2"   |
| HARD TEMPER   |         |
| 1. THESE HANGER SPACINGS                            | ARE A   |
| CODES OR SPECIFIC SALUTATION SHALL TAKE PRECEDENCE. | ons reg |
| SHALL TAKE PRECEDENCE.                              |         |

2. THIS CONTRACTOR SHALL. SUPPLY CONSTRUCT THESE HANGERS. DIELECTRIC COUPLINGS

> 1. PROVIDE WHEREVER INSTALLING UNIONS F PIPE SIZES OVER NPS

RECORD DRAWINGS 1. INSTALL ON ALL PIPII

> ON PIPING SCHEMA 2. ACCEPTABLE PRODUC

|                                | IS,<br>INS                       | ARRANGEMENT<br>FOR REVIEW.                                 | f and type (                | OF HANGERS  |   |                    | All pri                | to comm<br>nt and sp<br>Architect     | nencement of the<br>ecifications are th<br>and must be retund<br>apletion of the wor           | work.<br>e property of<br>irned upon                   |   |
|--------------------------------|----------------------------------|--|-----------------------------|---|---|--------------------|------------------------|---------------------------------------|--|--|---|
| MII<br>U<br>INU<br>TIOI<br>TEN | NIMU<br>SE (<br>OUS<br>N W<br>DS | IM 0.8 MM TH<br>CAST IRON SL<br>FLY WELDED A<br>ALLS.      | EEVE OR STE                 | MASONRY OR<br>ZED SHEET STEEL<br>EL PIPE SLEEVES<br>XTEND UP 50 MM,     |   |                    | ISSUI<br>No.<br>1<br>2 |                                       | EVISION<br>Description<br>ED FOR REVIEW<br>ED FOR TENDER                                       | Date<br>FEB 18, 2025<br>MAR 13, 2025                   | - |
| DUC<br>NE<br>P.                | SH F<br>FL/<br>ANC               | ROOFS, USE "<br>SHINGS AND<br>HOR SLEEVES                  | FLASHING CL                 | ING PRODUCTS"<br>AMP DEVICE WITH<br>NSTRUCTION: FASTEN<br>URABLE JOINT. |   |                    |                        |                                       |  |  |   |
| NSS<br>TH                      | TH<br>MA                         | ROUGH FIRE F<br>ERIALS HAVIN                               | RATED WALLS,<br>NG APPROVAL | FLOORS AND<br>OF AUTHORITIES  |   |                    |                        |                                       |  |  |   |
|                                | A TEF<br>WOF                     |  | BOUR TO CON                 | IPLETE U.L.C.   |   |                    |                        |                                       |  |  |   |
|                                |                                  | PING   |                             |   |   |                    | ŀ                      | _                                     |  |  |   |
|                                |                                  | MATERIAL   | CODE                        |   |   |                    |                        |                                       |  |  |   |
| $\checkmark$                   |                                  | CAST IRON  | CSA B70                     | MECH. JOINTS. TARRED  |   |                    |                        | С<br>О<br>П                           |  |  |   |
| $\checkmark$                   |                                  | IPEX PSM   | CSA B182–1                  | GASKET RING JOINTS  |   |                    |                        | D                                     |  |  |   |
| √                              | $\checkmark$                     | COPPER DWV   |                             | SOLDERED JOINTS   | - |                    |                        | Ľ                                     |  |  |   |
|                                |                                  |  |                             | SOLVENT WELD JOINTS   |   |                    |                        | ך                                     |  |  |   |
| √                              |                                  |  | CSA B70                     | MECH. JOINTS  |   |                    |                        | Ζ                                     |  |  |   |
|                                |                                  | TYPE L   | ASTM B88                    | SEAMLESS SOLDERED   |   |                    |                        | C                                     |  |  |   |
|                                |                                  | COPPER   |                             | JOINTS  |   |                    |                        |                                       |  | ARD  |   |
|                                |                                  |  | CSA B70                     | MECH. JOINTS  |   |                    | I                      | 1                                     |  | DAI  |   |
|                                |                                  |  | CSA B181                    | SOLVENT WELD JOINTS   | - |                    |                        | >                                     |  | BO   |   |
|                                |                                  | COPPER DWV   | ASTM B206                   | JOINTS  |   |                    | Ó                      | UVAI                                  |  | Л  |   |
|                                |                                  | CAST IRON  | CSA B70                     | MECH. JOINTS  |   |                    |                        | Ž                                     |  | сноо   |   |
| $\checkmark$                   |                                  | IPEX PVC   | CSA B182–1                  | T&G, GASKET JOINTS  |   |                    |                        | Ш                                     |  | U<br>L<br>U  |   |
|                                | $\checkmark$                     | IPEX PVC   | CSA B182–1                  | T&G, GASKET JOINTS  |   |                    | 1                      | Y                                     |  | ن<br>ر   |   |
|                                |                                  |  |                             |   |   |                    | c l                    | л<br>Л                                |  | <u>[]</u>  |   |
| PE                             | IAN                              |  | GER SPACING                 |   |   |                    |                        | Ц                                     |  | V3<br>TRI  |   |
| )                              | 2                                | 5 32 4   |                             | 5 80 100 150  |   |                    | <u> </u>               | 5                                     |  | <u> </u>   |   |
| A G                            | JIDE                             | ONLY. WHERE AU   | JTHORITIES HAVIN            | -10" 9'-10" 9'-10" 9'-10"<br>G JURISDICTION, GOVERNING                  |   |                    | _                      | 7                                     |  | -7L  |   |
| REQ                            | JIRE                             | MORE STRINGENT   | DISTANCE BETW               | EEN HANGERS. THAT SPACING   |   |                    |                        |                                       |  | o, L<br>LIC  |   |
| Y /                            | ND                               | NSTALL. ALL REG  | QUIRED SUPPLEME             | NTARY STEEL NECESSARY TO  |   |                    | PROJECT                |                                       |  | Street,<br>Ontario<br>ATHOL                            |   |
| FC<br>PS<br>PIN                | RF<br>2.<br>GA                   | IPE SIZES NP<br>STANDARD OF<br>ND FOR ALL I<br>WHERE BALAN | S 2 AND UNE<br>ACCEPTANC    | S AND AS INDICATED<br>C.B.V.) ARE SHOWN.                                |   |                    |                        | AUCEN                                 |  | 5205 New Street,<br>Burlington, Ontari<br>HALTON CATHO |   |
|                                |                                  |  |                             |   |   |                    | PROFES                 | SSIONAL S                             |  |  | - |
|                                |                                  |  |                             |   |   |                    |                        |                                       | M.K. AHMED<br>MORESSIONAL CIT  |  |   |
|                                |                                  |  |                             |   |   |                    |                        | đ                                     | 13/03/2025<br>30/7//CE OF ONTINO   |  |   |
|                                |                                  |  |                             |   |   |                    | DWG TI                 | Μ                                     | ECHANICAL  |  |   |
|                                |                                  |  |                             |   |   |                    |                        |                                       |  |  | - |
|                                |                                  |  |                             |   |   |                    | CONS                   | L CONS<br>SULTING MEO<br>Wyecroft Roa | CHANICAL & ELECTRIC<br>ad, Suite 200, Oakville, O<br>PHONE: (905)844-3913<br>www.regal-eng.com | AL ENGINEERS   |   |
|                                |                                  |  |                             |   |   |                    | DATE :<br>SCALE :      |                                       | BRUARY   |  |   |
|                                |                                  |  |                             |   |   |                    |                        |                                       | AS SHC   | VVN  |   |
|                                |                                  |  |                             |   |   |                    | DRAWN                  | BY:                                   | MS   |  |   |
|                                |                                  |  |                             |   |   | <del>.</del>       | CHECKE                 | ED BY :                               | MA   |  |   |
|                                |                                  |  |                             |   |   | 2025 4:18:01       | DWG ST                 |                                       | TENDER   |  |   |
|                                |                                  |  |                             |   |   | larch 13, 200<br>M | PROJEC                 |                                       | 2025-47  |  |   |
|                                |                                  |  |                             |   |   | ∣ ਕੋ ∣             | DRAWIN                 | NG No. :                              |  | REVISION   | 1 |

The Contractor shall verify all dimensions prior to commencement of the work.

#### PLUMBING

1. PLUMBING SERVICES ARE TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH: THE ONTARIO BUILDING CODE (2006)

THE WATER RESOURCES ACT (REG. 815)

ASHRAE/IES 90.1 (2004)

- FEDERAL, PROVINCIAL OR LOCAL AUTHORITIES HAVING JURISDICTION.
- 2. HOT AND COLD PORTABLE WATER PIPING TO BE TYPE-L COPPER (CONFORM TO ASTM-B88) WITH SOLDER-JOINT FITTINGS (CONFORM TO ANSI-B16.18 OR ANSI-B16.22).
- 3. BURIED DRAINAGE PIPING INSIDE THE BUILDING TO BE ABS PLASTIC (CERTIFIED TO CAN/CSA-B181.1) WITH SOLVENT CEMENT JOINT (CONFORM TO CAN/CSA-181.1).
- 4. ALL ABOVE GRADE SANITARY DRAINS AND VENT STACKS TO BE CAST IRON, NO HUB, WITH MJ JOINTS (CERTIFIED TO CSA-B70). BRANCH VENTS AND ABOVE GRADE SANITARY DRAINS MAY BE COPPER DRAINAGE TUBE (DWV) (COMPLY WITH ASTM-B306) WITH SOLDER JOINT FITTINGS (CONFORM TO ANSI-B16.29).
- 5. STANDARD FLOW ROOF DRAINS TO BE SMITH SERIES 1010ERCCID ROOF DRAIN, ALL DUCO COATED 15" (380MM) DIA.. CAST IRON BODY, WITH UNDER DECK CLAMP, ADJUSTABLE EXTENSION AND SUMP RECEIVER, 11" (280MM) SECURED C.I. DOME. ON SMALL AREA ROOFS PROVIDE SERIES 1330ERCCID DRAIN, WITH 8 1/2" (212MM) ALUMINUM DOME. IN PATIO AND TRAFFIC AREAS PROVIDE SERIES 1470ERCNB DRAIN, WITH ADJUSTABLE SLOTTED EXTENSIONS AND 8" X 8" (200MM X 200MM) NICKEL
- BRONZE SQUARE PROMENADE TOP. INVERTED ROOF INSTALLATION USE SERIES 1017EPRCCID DRAINS. 6. FLOW CONTROL ROOF DRAINS SMITH SERIES 1083ERCCID FLOW CONTROL ROOF DRAIN SLOPED ROOF ALL DUCO COATED CST IRON BODY, WITH ECK CLAMP, ADJUSTABLE DETENTION AND SUM RECEIVER, 11" (280MM) SECURED C.I. DOME AND 6" HIGH (150MM) FLOW RATE CONTROL WEIR. INVERTED ROOF INSTALLATION US SERIES 1017-85-ERPCCID DRAINS.
- 7. PARAPET, SCUPPER DRAINS, GUTTER, AND PIT DRAINS TO BE SMITH SERIES 1510/30SG SCUPPER DRAIN, ALL DUCO COATED CAST IRON BODY, WITH SECURED ANGLED GRATE, FLASHING CLAMP AND 45 DEGREE OR 90 DEGREE OUTLETS. FOR GUTTER INSTALLATION USE SMITH SERIES 1630, WITH 4 1/2 (114MM) HIGH DOME.
- 8. FLOOR DRAINS IN FINISHED AREAS TO BE SMITH SERIES 2005A FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, REVERSIBLE CLAMP DEVICE AND ADJUSTABLE 5' DIAMETER (127MM) NICKEL BRONZE 1/4" (6.35MM) THICK STRAINER, SECURED WITH IS.S. SCREWS, 4" (100MM) THROAT ON STRAINER. IN QUARRY OR MOSAIC TILED AREAS, PROVIDE SQUARE 'B' - 5"X5" (127MM X 127MM) POLISHED BRONZE (PB) SQUARE STRAINER. FLOOR DRAIN WITH FUNNEL PROVIDE 2005A-3580NB.
- 9. FLOOR DRAINS IN MECHANICAL ROOMS AND UNFINISHED AREAS TO BE SMITH SERIES 2320 FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CALMING DEVICE AND 8" (200MM) DIAMETER GRATE. FLOATING FLOORS PROVIDE 9340, WITH MOMENT COMPENSATOR AND VIBRATION ISOLATOR.
- 10. FLOOR DRAINS WITH COMBINATION FUNNEL TO BE SMITH SERIES 2320-3591FUNNEL FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CLAMPING DEVICE AND 8-1.2" (216MM) WITH 4" X 9" (101.6MM X 228.6MM) OVAL FUNNEL. FLOATING FLOOR PROVIDE 9340\*-3591, WITH MOVEMENT COMPENSATOR AND VIBRATION ISOLATOR.
- 11. EXTERIOR NON-FREEZE WALL HYDRANT TO BE SMITH SERIES 5609QTNB HYDRANT, 1/4 TURN NON-DRIOP, CERAMIC CARTRIDGE, 3/4" (19MM) NON-FREEZE WALL TYPE WITH BRONZE FACE, ADJUSTABLE WALL-OFLANGE OPERATION KEY AND SERF-DRAINING INTEGRAL VACUUM BREAKER. LENGTH TO SUIT WALL THICKNESS.
- 12. INTERIOR HOSE BIBB TO BE CAMBRIDGE BRASS #32W201 HOSE BIBB, 1/2" (12.7MM) SIZE, WALL TYPE ROUGH BRONZE WITH HOSE END VACUUM BREAKER.
- 13. LINE CLEANOUTS TO BE SMITH SERIES #4420 LINE CLEANOUTS, IN CAST IRON PIPE WITH BOLTED NEOPRENE CASKETED COVER SECURED TO BODY WITH BRASS BOLTS, WITH FULL SIZE PIPE OPENING
- 14. STACK CLEANOUT TO BE SMITH SERIES #4510 STACK CLEANOUT, IN BASE OF CAST IRON STACK WITH NEOPRENE CASKETED SECURED COVER. WHERE CLEANOUTS ARE CONCEALED BEHIND FINISHED WALLS ACCESS SHALL BE MADE BY SMITH 4530 ROUND STAINLESS STEEL PLATE AND SLOTTED FLAT HEAD STAINLESS STEEL SCREWS.
- 15. URINAL CLEANOUT TO BE SMITH SERIES SQ4-1819 URINAL WALL ACCESS CLEANOUT, WITH S.S BOLT AND WING NUT, COMPLETE WITH ROUND POLISHED S.S. ACCESS COVER AND SECURED WITH V.P. SCREW.
- 16. FLOOR CLEANOUTS IN UNFINISHED AREAS AND OUTSIDE AREAS, SMITH SERIES 4220 FLOOR CLEANOUT, DUCO COATED CAST IRON BODY WITH INTEGRAL CLAMP DEVICE, AND REMOVABLE POSITIVE SEAL CLOSURE PLUG AND HEAVY DUTY 6" (150MM) ADJUSTABLE COVER SECURED WITH STAINLESS STEEL SCREWS.
- 17. FLOOR CLEANOUTS IN TILED AREAS, SMITH SERIES 4140 FLOOR CLEANOUT, SAME AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESSED FOR TILE. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
- 18. FLOOR CLEANOUTS IN TERRAZZO AREAS, SMITH SERIES 4180 FLOOR CLEANOUT, SAM AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESS FOR TERRAZZO. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
- 19. FLOOR CLEANOUTS IN CARPETED AREAS, SMITH SERIES 4020Y FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE COVER AND FRAME. 20. FLOOR CLEANOUTS IN OTHER FINISHED AREAS, SMITH SERIES 4020 FLOOR CLEANOUT, SAME AS ABOVE
- WITH NICKEL BRONZE FRAME AND COVER.
- 21. FLOOR CLEANOUTS FOR HEAVY TRAFFIC AREAS, SMITH SERIES 4100 FLOOR CLEANOUT, SAME AS ABOVE WITH EXTRA HEAVY NICKEL BRONZE COVER AND FRAME 22. TRAP SEAL PRIMER SERVING 1 OR 2 DRAINS TO BE P.P.P. INC. MODEL PO-500 AUTOMATIC TRAP SEAL PRIMER VALVE, SEARING INDIVIDUAL OR REMOTE AREA DRAINS WITH 1/2" NPT (MTOF)
- CONNECTIONS WITH STRAINER AND INTEGRAL BACK FLOW PREVENTER & VACUUM BREAKER. 23. PROVIDE ISOLATION VALVES ON ALL MAIN LINES, BRANCH LINES AND AT PIECES OF EQUIPMENT. ALL VALES SHALL BE JENKINS, CRANE OR EQUAL WITH A MINIMUM RATING OF 125% OF THE SYSTEM DESIGN PRESSURE.
- 24. ALL ABOVE GRADE PIPING IS TO BE INSULATED WITH FIBREGLASS INSULATION TO PREVENT CONDENSATION OR TO RETAIN HEAT FOR ENERGY EFFICIENCY. INSULATION SYSTEM TO BE SCHULLER MICRO-LOK OR EQUAL, WITH SIZES AS SHOWN BELOW. SERVICE & DIDE SIZE INSULATION REQUIRED

| <u>SERVICE &amp; PIPE SIZE</u> | INSUL      |
|--------------------------------|------------|
| SANITARY DRAINS (ANY SI        | ZE)        |
| DOMESTIC COLD WATER (A         | NY SIZE)   |
| DOMESTIC HOT WATER (2"         | & SMALLER) |
| DOMESTIC HOT WATER (21         |            |

| DOMESTIC HOT WATER (2½" & LARGER)     | 1½" |
|---------------------------------------|-----|
| DOMESTIC HOT WATER RECIRC.(ANY SIZE)  | 1"  |
| DOMESTIC WATER (HOT OR COLD) BRANCHES | ½"  |

- 25. IDENTIFY ALL PIPE OR PIPE COVERING WITH SMILLIE MCADAMS SUMMERLIN LTD.COIL-MARK OR ADHESIVE STYLE BUILDING SERVICE PIE MARKER. ALL IDENTIFICATION SHALL INCORPORATE DIRECTION OF FLOW ARROW AND THE MANUFACTURES STANDARD SYSTEM DESIGNATION. IDENTIFICATION MUST BE APPLIED AT INTERVALS NOT GREATER THAN 40 FT. (12M). ADJACENT TO VALVES, BEHIND ACCESS DOORS, AT CHANGES IN DIRECTION AND WHERE PIPES PASS THROUGH WALLS OR FLOORS, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 26. IDENTIFY AL VALVES BY MEANS OF A 1-1/4" (32MM) DIAMETER BRASS TAG WITH 3/8" (9.5 MM) STAMPED BLACK PAINT FILLED CHARACTERS, OR A 1-1/4" (32MM) SQUARE ENGRAVED TWO-PLY PLASTIC TAG WITH 3/8" (9.5MM) BLACK CHARACTERS ON WHITE BACKGROUND, TAGS TO BE CONSECUTIVELY NUMBERED AND SECURED TO VALVES BY A BRASS BEAD CHAIN. PROVIDE AND MOUNT FOR OWNER A TYPED VALVE DIRECTORY IN A BLACK DOCUMENT FRAME, LISTING VALVE NUMBER, LOCATION, AND SERVICE. INDIVIDUAL FIXTURE VALVES NEED NOT BE IDENTIFIED.
- 27. IDENTIFY ALL EQUIPMENT SUCH AS. BUT NOT LIMITED TO FANS. PUMPS. MOTORS AHU'S AND THEIR RELATED STARTERS BY MEANS OF ON ENGRAVED TWO-PLY PLASTIC I.D. PLATE. EQUIPMENT I.D. PLATES SHALL HAVE 3/8" (9.5 MM) WHITE CHARACTERS ON BLACK BACKGROUND: STARTER I.D. PLATES SHALL BE AS ABOVE WITH 1/8"(3.1MM)CHARACTERS. ALL PLATES SHALL BE SIZED TO ACCOMMODATE REQUIRED DESCRIPTION BEARING TYPE OF EQUIPMENT, NUMBER AND SERVICE. LOCATE CONSPICUOUSLY AND SECURE WITH SELF ADHESIVE TAPE. RECOGNIZED ABBREVIATIONS WILL BE ACCEPTABLE. OTHER PROPOSED ABBREVIATIONS TO BE APPROVED BY THE CONSULTANT.
- 28. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES OR EQUIPEMNT. SIZE OF PANELS TO ALLOW FOR MAINTENANCE OR REMOVAL OF ITEM.
- 29. UNIVERSAL ACCESS DOORS FOR WALLS AND CEILINGS TO BE ACUDOR SERIES UF-5000 ACCESS DOORS, 14 GA. (17MM) STEEL, RUST RESISTANT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN TILE WALLS SHALL BE STAINLESS STEEL AND SHALL SUIT TILE PATTERN. ALL OTHER PANELS SHALL BE PRIME PAINTED STEEL. MINIMUM SIZE OF PANELS SHALL BE 12" X 18" (300MM X450MM). WHEREVER POSSIBLE 24" X 24" (600MM X 600MM) PANELS SHALL BE USED.
- 30. RECESSED ACCESS DOOR FOR TILE APPLICATIONS TO BE ACUDOR SERIES AT-5020 RECESSED ACCESS DOOR FOR CEILING TILE, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HINGE AND ALLEN KEY OPERATED LOCK. DOOR TO BE RECESSED 5/8" (14MM) TO RECEIVE CEILING TILE. FOR CERAMIC WALL TILE PROVIDE #AT-5020SS STAINLESS STEEL RECESSED ACCESS DOOR WITH ALLEN KEY LOCK.
- 31. RECESSED ACCESS DOOR FOR DRYWALL APPLICATIONS TO BE ACUDOR SERIES DW-5015 RECESSED ACCESS DOOR, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HIGH AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8"(14MM) TO RECEIVE DRYWALL. FLANGE OF

DOOR TO BE GALVANIZED STEEL TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS. 32. FIRE RATED ACCESS DOORS TOBE INSULATED ACUDOR SERIES FW-5050 FIRE RATED ACCESS DOORS, FOR WALLS AND CEILING UL/ULC 1-1/2 HOUR 'B' LABEL WITH MAXIMUM TEMPERATURE RISE OF 250

- DEGREES AFTER 30 MINUTES. DOOR WITH 2' (50MM) INSULATION, STEEL. 20 GA (1MM) WITH 16 GA. (1.6MM) FRAME, CONCEALED HINGE, SELF LATCHING RING PULL AND GREY BAKED ENAMEL FINISH. 33. PROVIDE PLUMBING FIXTURES AND EQUIPMENT AS SPECIFIED ON THE DRAWINGS. ALL ITEMS TO BE NEW AND OF THE HIGHEST QUALITY. ALL ITEMS INSTALLED BY THIS CONTRACTOR MUST BE INSTALLED COMPLETE AND INCLUDE ALL PIPING, VALVES AND MISCELLANEOUS FITTINGS, CONTROLS, SUPPORT BASE OR STRUCTURE, TO ENSURE A TOTALLY FUNCTIONAL UNIT OR SYSTEM. COORDINATE
- INSTALLATION WITH OTHER TRADES AS REQUIRED. 34. ALL PLUMBING INSTALLATIONS ARE TO BE IN THE BEST WORKMANLIKE MANOR AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE. 35. SUPPORT ALL PIPING AS FOLLOWS:

| PIPE SIZE                | DISTANCE BETWEEN SUPPORTS |
|--------------------------|---------------------------|
| 1" & SMALLER (METALLIC)  | 6'-0" MAXIMUM             |
| 1¼" & SMALLER (METALLIC) | 8'-0" MAXIMUM             |
| ½" & SMALLER (PLASTIC)   | 3'-0" MAXIMUM             |
| 1¼" & SMALLER (PLASTIC)  | 4'-0" MAXIMUM             |

- 36. PROVIDE SLEEVES FOR ALL PIPING PENETRATING WALLS AND FLOORS. ENSURE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE PROPERLY SEALED WITH AN APPROVED COMPOUND.
- 37. ALL TRENCHING, BEDDING, AND BACKFILL OF BURIED PIPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 38. PRESSURE TEST THE HOT AND COLD WATER PIPES WITH WATER PRESSURE AT 1000KPg FOR 1 HOUR OR AIR PRESSURE AT 700KPa FOR 2 HOURS.

PLUMBING FITTINGS AND ACCESSORIES

| VALVES        |                               |                         |
|---------------|-------------------------------|-------------------------|
| GATE VALVES:  | NPS 2 AND UNDER               | CRANE 1320 / CRANE 42   |
|               | OVER NPS 2                    | CRANE 465 1/2           |
| GLOBE VALVES: | NPS 2 AND UNDER               | CRANE 1310              |
| CHECK VALVES: | NPS 2 AND UNDER<br>OVER NPS 2 | CRANE 1342<br>CRANE 373 |
| BALL VALVES:  | NPS 2 AND UNDER               | CRANE 9322S             |

FLOOR DRAINS

- 1. FINISHED FLOORS ZURN ZN-211BP, 125BP, 125 MM ROUND NICKEL BRONZE STRAINER.
- 2. UNFINISHED AREAS ZURN ZXN-211AP IN WATERPROOF MEMBRANE AREAS USE ZXN-401AP NICKEL BRONZE STRAINER.
- 3. CERAMIC TILE AREAS ZURN ZXN-211 HP WITH NICKEL BRONZE STIRAINER,150X150 SIZE.
- 4. ANCON DRAINS CONSIDERED EQUAL TO ZURN.
- <u>CLEANOUTS</u>

1. CLEANOUT PLUGS (CAST IRON) HEAVY CI MALE FERRULE WITH BRASS SCREWS AND THREADED BRASS OR BRONZE PLUG. SEALING-CAULKED SEAT OR WITH NEOPRENE GASKET. ACCEPTABLE MATERIALS: ZURN Z1450 SERIES, ANCON.

#### PLUMBING FIXTURES

1. FIXTURES ARE NOT TO BE INSTALLED UNTIL DIRECTED BY THE ENGINEER. ALL ROUGH-IN SHALL BE ACCURATELY LAID OUT, AND NO OFFSETS WILL BE ACCEPTED. ALL FIXTURES SHALL BE THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND ANY FIXTURE WHICH IN THE OPINION OF THE ENGINEER IS DEFECTIVE OR DAMAGED SHALL BE REMOVED AND REPLACED BY A FIXTURE WHICH IS ACCEPTABLE. THE FIXTURES SHALL INCLUDE ALL TRIM, TRAPS AND WASTE WATER CONNECTIONS, TANKS. ETC., USUALLY CLASSED AS FITTINGS AND REQUIRED TO MAKE FIXTURE COMPLETE IN EVERY RESPECT. FIXTURES SHALL BE WHITE. CRANE AND AMERICAN STANDARD FIXTURES ARE CONSIDERED EQUALS.

#### PLUMBING FIXTURES

FD- FLOOR DRAINS

ADJUSTABLE FLOOR DRAIN-ZURN-Z415-BZ1-DP

#### TRAP SEAL PRIMERS

PPP-PR-500 PRESSURE DROP ACTIVATED TRAP PRIMER

#### CLEANOUTS

ADJUSTABLE ON GRADE CLEANOUTS- SIOUX CHIEF 834 SERIES FINISH LINE ADJUSTABLE ON GRADE CLEANOUT, MODEL NO 834-4-P-NR-V-832 S4

#### WATER HAMMER ARRESTORS

.1 WATTS DRAINAGE SERIES 05 A. .2 ANSI A112.26.1; COPPER CONSTRUCTION, PISTON TYPE SIZED TO PDI WH-201, PRE-CHARGED SUITABLE FOR OPERATION IN TEMPERATURE RANGE 99'F TO 300'F (-73'C TO 149'C) AND MAXIMUM 150 PSI (1000 KPA) WORKING PRESSURE.

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|        | C      | AL CONSULTIN<br>NSULTIN<br>NO8 Wyeer | FEBRU  | NG ENG<br>L & ELECTRIC<br>200, Oakville, 0<br>205)844-3913<br>Jal-eng.com | INEE<br>CAL EN<br>Dotario | ERS INC.<br>NGINEERS<br>L6K 3S3                                       |
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|                                    | FIXTURE TYPE "A1"  |
|------------------------------------|--|
| AD                                 | FIXTURE TYPE AT 15A, 125V/347V SINGLE POLE SWITCH, $\$_2$ (TWO POLE), $\$_3$ (3–WAY),  |
| \$                                 | $ $ \$4 (4–WAY), \$ $_{\land}$ (KEY OPERATED), \$ $_{\square}$ (DIMMER),<br>\$= (C/W PILOT LIGHT), \$ $_{\lor}$ (LOW VOLTAGE), \$ $_{\top}$ (TIMER),   |
|                                    | S <sub>S</sub> (OCCUPANCY SENSOR SWITCH), \$ (GANGED SWITCHES)   |
|                                    | LIGHTING FIXTURE (LETTER DENOTES THE TYPE OF FIXTURE)  |
| ////////////////////////////////// | EMERGENCY LIGHTING FIXTURE (LETTER DENOTES THE TYPE OF FIXTURE)  |
| 05                                 | EXISTING CEILING MOUNTED OCCUPANCY SENSOR  |
| <u>ow</u>                          | EXISTING WALL MOUNTED PIR SENSOR   |
|                                    | ELECTRICAL PANEL NCM PDT 10 RJB LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE  |
| nCP<br>10                          | DUAL TECHNOLOGY, LARGE MOTION / EXTENDED<br>RANGE 360° LENS, REAR RJ-45 PORTS  |
| (nCP<br>9                          | NCM PDT 9 RJB-LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE<br>DUAL TECHNOLOGY, SMALL MOTION / STANDARD<br>RANGE 360° LENS, REAR RJ-45 PORTS   |
| nCM<br>10                          | NCM 10 RJB-LOW VOLTAGE CEILING MOUNT SENSOR, LARGE<br>MOTION / EXTENDED RANGE 360° LENS, REAR RJ-45 PORTS  |
| nP<br>16D                          | DP2- NPP16 D EFP-POWER/RELAY PACK, DIMMING,EXTERNAL FAULT  |
| nPOD <sub>DX</sub><br>MA4S         | NLIGHT WIRED AESTHETIC WALLPOD, 4 SCENE CONTROL, RAISE/LOWER DIMMING   |
| nPOD<br>MA2S                       | NPODMA 2S XX- NLIGHT WIRED AESTHETIC WALLPOD, 2 SCENE CONTROL (2 BUTTONS)  |
| nECY<br>3BRR GFX                   | NECY 347 BAC REMR ENC NW GFXK, NLIGHT ECLYPSE, 120V, BACNET, REMOTE<br>CONNECTIVITY ENABLED + RELAY, NO W-FI NGWY2 GFX AND PS 150 POWER SUPPLY   |
| \$X-SA                             | WSX SA(COLOR) WALL SWITCH DECORATOR SENSOR-PASSIVE INFRARED (PIR),<br>W/ CONVERTIBLE NEUTRAL/NO NEUTRAL WIRING, SEMI AUTOMATIC   |
| \$XA                               | SO1 WSXA XX WALL SWITCH SENSOR   |
|                                    | FIRE ALARM PULL STATION C/W LEXAN COVER & WITH A BATTERY BUZZER  |
|                                    | FLUSH WALL OR CEILING MOUNTED FIRE ALARM HORN  |
|                                    | FLUSH WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE   |
|                                    |  |
| •                                  | AUTOMATIC RATE OF RISE HEAT DETECTOR AT 135° F   |
|                                    | AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR AT 157 F   |
| •                                  | PHOTOELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE   |
|                                    | DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATOR   |
|                                    | FIRE ALARM SYSTEM REMOTE ANNUNCIATOR   |
|                                    | FIRE ALARM CONTROL PANEL   |
| FDGP                               | FIRE ALARM DATA GATHERING PANEL  |
|                                    | FIRE ALARM SYSTEM END OF LINE RESISTANCE   |
|                                    |  |
| FAC                                | FIRE ALARM SYSTEM CONNECTION   |
| )<br>Sí                            | FIRE ALARM STROBE  |
| НО                                 | DOOR HOLD OPEN DEVICE  |
| WG                                 | WIRE GUARD   |
| TYP                                | TYPICAL  |
| WP                                 | WEATHERPROOF   |
| EX                                 | EXIT SIGN  |
| <u></u><br>又公                      | EMERGENCY LIGHTING FIXTURE   |
|                                    |  |
|                                    | BATTERY UNIT   |
|                                    | EMERGENCY LIGHTING FIXTURE AND BATTERY   |
| OS6                                | WALL MOUNT PIR OCCUPANCY SENSOR, WATT STOPPER PW-100   |
|                                    | HAND DRYER   |
| HD                                 |  |
|                                    | CEILING MOUNTED SPEAKER  |
|                                    | CEILING MOUNTED SPEAKER WALL MOUNTED SPEAKER   |
|                                    |  |
|                                    | WALL MOUNTED SPEAKER   |
|                                    | WALL MOUNTED SPEAKER<br>CEILING MOUNTED SPEAKER  |
|                                    | WALL MOUNTED SPEAKER<br>CEILING MOUNTED SPEAKER<br>OUTLET FOR SECURITY CONCEALED DOOR CONTACT  |
|                                    | WALL MOUNTED SPEAKER         CEILING MOUNTED SPEAKER         OUTLET FOR SECURITY CONCEALED DOOR CONTACT         OUTLET FOR SECURITY HID CARD ACCESS READER                                   |
| HD<br>O<br>L<br>S<br>CR<br>R       | WALL MOUNTED SPEAKER         CEILING MOUNTED SPEAKER         OUTLET FOR SECURITY CONCEALED DOOR CONTACT         OUTLET FOR SECURITY HID CARD ACCESS READER         RELOCATE                  |
| HD<br>O<br>C<br>C<br>C<br>R<br>EX  | WALL MOUNTED SPEAKER         CEILING MOUNTED SPEAKER         OUTLET FOR SECURITY CONCEALED DOOR CONTACT         OUTLET FOR SECURITY HID CARD ACCESS READER         RELOCATE         EXISTING |

|                |                    |            |                |         | UNTI     |           | ARF<br>WA |          |         | LAN<br>DAT |          |      | SUF<br>VOL |          | / REMARKS  |
|----------------|--------------------|------------|----------------|---------|----------|-----------|-----------|----------|---------|------------|----------|------|------------|----------|--|
| SYMBOLS<br>Z Z |                    | URER CA    | TALOGUE        | SURFACE | RECESSED | SUSPENDED | SURFACE   | RECESSED | BRACKET | NUMBER     | WATTAGE  | ТҮРЕ | 120 V      | 208 V    |  |
| A PI           | EERLESS            | - LACH-    | -24G-232-EL    | -       |          |           |           |          |         | 2          | 32       | FL   |            |          | C/W SILVER REFLECTOR, HINGED K-23 LENS & 1-4 LAMP BALLAST  |
| A1 PE          | EERLESS            | – LACH–    | -24G-232-EL    |         | •        |           |           |          |         | 2          | 32       | FL   |            |          | C/W SILVER REFLECTOR, HINGED K-23 LENS W/O BALLAST   |
| A2 PI          | EERLESS            | – LACH–    | ·24G-232-EL    | -       |          |           |           |          |         | 2          | 32       | FL   |            |          | C/W SILVER REFLECTOR, HIMGED K-23 LENS & 1-2 LAMP BALLAST  |
| B PI           | EERLESS            | – 4PLS–    | 24G-232-EL     |         |          |           |           |          |         | 2          | 32       | FL   |            |          | WITH 1-4 LAMP BALLAST  |
|                |                    |            | 24G-232-EL     |         |          |           |           |          |         | 2          | 32       | FL   | $\bullet$  |          | WITHOUT BALLAST  |
|                |                    |            | 24G-232-EL     |         |          |           |           |          |         | 2          | 32       | FL   |            |          | WITH 1-2 LAMP BALLAST  |
| C PE           | EERLESS            | - LACH-    | 14G-132-EL     |         |          |           |           |          |         | 1          | 32       | FL   | $\bullet$  |          | C/W SILVER REFLECTION & HINGED K-23 LENS   |
|                |                    |            | 1–232–EL       |         |          |           |           |          |         | 2          | 32       | FL   | $\bullet$  |          |  |
|                | EERLESS            |            |                | •       |          |           |           |          |         | 2          | 32       | FL   | $\bullet$  |          |  |
|                | EERLESS            |            |                |         |          |           |           |          |         | 2          | 32       | FL   | $\bullet$  |          |  |
|                | EERLESS            |            |                |         |          |           |           |          |         | 2          | 32       | FL   |            |          |  |
|                | EERLESS            |            |                |         |          |           |           |          |         | 1          | 32       | FL   |            |          |  |
|                | EERLESS            |            |                |         |          |           |           |          |         | 1          | 25       | FL   |            |          |  |
|                |                    |            | 4-232-EL       | _       |          |           |           |          |         | 2          | 32       | FL   |            |          |  |
|                |                    | - CNB-4    | -232-EL        | _       |          |           |           |          |         | 2          | 32       | FL   |            |          |  |
|                | OT USED            |            |                | _       | -        |           |           |          |         |            | <u> </u> |      |            | -        |  |
|                | GHTOUER-           |            |                | _       | <u> </u> |           |           |          |         | 2          |          | CFL  |            | -        | OPAL LENS  |
|                | THONIA-            |            | -              | _       | <u> </u> |           |           |          |         | 1          |          | P38  | -          | <u> </u> | WITH HINGED WIRE GAURD   |
|                |                    |            | J-C SERIES     | _       | -        |           |           |          |         | 1          | 400      | MH   |            |          |  |
| <b>.</b>       | AGNALIUM           | I- HML-    | 400-M          | _       | -        |           |           |          |         | <u> </u>   | 400      | мп   |            | -        | WITH WRE GAURD & REMOTE BALLAST  |
| $\vdash$       | UBELL -            |            | 260            |         | -        |           |           |          |         | 1          | 100      | HPS  |            | -        |  |
|                |                    |            |                |         |          |           |           |          |         | 1          |          | HPS  |            |          | WTH WREGAURD   |
|                | ubell –<br>Ubell – |            |                | _       | -        |           |           |          |         | 1          | _        | INC  | -          | $\vdash$ |  |
|                | JMITROL -          |            |                |         |          |           |           | -        |         |            | 750      |      |            |          | FRONT OF HOUSE W/MTG BRACKET & PRESET DIMMER   |
|                | THONIA -           |            |                | -       |          |           |           |          |         |            | 175      |      | -          |          | FRONT OF HOUSE W/MIG BRACKET & FRESET DIMMER   |
|                | URT VERS           |            | <i>,</i> om    |         |          |           |           |          |         |            | 175      |      |            |          |  |
|                |                    |            |                |         | <b>I</b> |           |           |          |         | Ľ          |          | I    |            |          |  |
|                |                    | ASCE       | NSEION CATHO   | LIC ELE | MEN      | TARY      | SCHO      | OL       |         |            |          |      | ٦          |          |  |
| EXISTI         | NG LIGHTIN         | IG FIXTURE | SCHEDULE       |         | PRC      | POS       | ED LIC    | SHTIN    | IG FIX  | TUR        | E SCH    | EDUL | E          |          |  |
| TYPE           | WATT               | QTY.       | TOTAL<br>WATTS |         | ТҮ       | 'PE       | WA        | тт       | QT      | Υ.         |          | TAL  |            |          |  |
| A              | 32                 | 106        | 3392           |         | A        |           | 30        |          | 7       |            | 210      | ATTS |            |          |  |
| A1             | 32                 | 97         | 3104           |         | A1       |           | 30        |          | 36      |            | 2580     | 1    |            |          |  |
| A2             | 32                 | 3          | 96             |         | D        |           | 177       |          | 23      |            | 4071     |      |            |          |  |
| В              | 32                 | 20         | 640            |         | D1       |           | 59        | _        | 13      |            | 767      |      | ┨          |          |  |
| B1             | 32                 | 22         | 704            |         | Q        |           | 40        | _        | .3      | _          | 520      |      | $\neg$     | I        |  |
| B2             | 32                 | 2          | 64             |         | Q1       |           | 50        | 1        | 48      |            | 7400     |      | 1          |          | GENERAL NOTES  |
| C              | 32                 | 57         | 1824           |         | МА       |           | 28        | -        | 1       |            | 308      |      |            |          |  |
| D              | 32                 | 43         | 1376           |         | M1       |           | 22        | 2        |         |            | 44       |      |            |          | 1. ARRANGE A TRAINING SESSION WITH THE LIGHTING CONTROL M  |
| E              | 32                 | 24         | 768            |         | D2       |           | 40        | 2        | 2       |            | 80       |      |            |          | THE INSTALLATION REIMBURSEMENTS OF THE DIGITAL LIGHTING  |
| F              | 32                 | 2          | 64             |         |          |           |           |          |         |            |          |      |            |          | 2. THE DRAWINGS ARE NOT TO BE SCALED FOR INSTALLATION PU<br>OBTAINED FROM FIELD MEASUREMENTS.          |
| F1             | 32                 | 10         | 320            |         |          |           |           |          |         |            |          |      | 1          |          | 3. CONTRACTOR IS TO REMOVE ALL EXISTING DEAD AND ABANDO  |
| F2             | 32                 |            |                |         |          |           |           |          |         |            |          |      |            |          | WHERE NOT POSSIBLE TO REMOVE EXISTING CONDUIT, CONDUIT<br>TO BE REMOVED AND REPLACED WITH A PULL ROPE. |
| F3             | 32                 |            |                |         |          |           |           |          |         |            |          |      |            |          | 4. CONTRACTOR IS TO PROVIDE ELECTRONIC CAD 'AS BUILT' DRA  |
| G              | 32                 | 2          | 64             |         |          |           |           |          |         |            |          |      |            |          | COMPLETION OF THE PROJECT. CAD FILES ARE TO BE AUTOCA  |
| н              | 32                 | 3          | 96             |         | 1        |           |           |          |         | F          |          |      | 1          |          |  |

| EL   | ECTRICAL DRAWING LIST  |
|------|--|
| E1.0 | ELECTRICAL LEAD SHEET & SCHEDULES  |
| E1.1 | ELECTRICAL EQUIPMENT SCHEDULES-2   |
| E1.2 | ELECTRICAL PANEL SCHEDULES   |
| E1.3 | EXISTING FIRE ALARM ZONING SCHEDULE                                      |
| E1.4 | LIGHTING CONTROL DETAILS   |
| E2.0 | DEMOLITION LIGHTING GROUND FLOOR PLAN                                    |
| E2.1 | DEMOLITION LIGHTING SECOND FLOOR PLAN                                    |
| E2.2 | DEMOLITION FIRE ALARM GROUND FLOOR PLAN                                  |
| E2.3 | DEMOLITION FIRE ALARM SECOND FLOOR PLAN                                  |
| E2.4 | DEMOLITION EXISTING EMERGENCY LIGHTINGS AND EXIT SIGNS GROUND FLOOR PLAN |
| E2.5 | DEMOLITION EXISTING EMERGENCY LIGHTINGS AND EXIT SIGNS SECOND FLOOR PLAN |
| E2.6 | DEMOLITION GROUND FLOOR WASHROOM POWER PLAN                              |
| E2.7 | DEMOLITION SECOND FLOOR WASHROOM POWER PLAN                              |
| E3.0 | PROPOSED LED LIGHTING RETROFIT GROUND FLOOR PLAN                         |
| E3.1 | PROPOSED LED LIGHTING RETROFIT SECOND FLOOR PLAN                         |
| E3.2 | PROPOSED FIRE ALARM GROUND FLOOR PLAN                                    |
| E3.3 | PROPOSED FIRE ALARM SECOND FLOOR PLAN                                    |
| E3.4 | PROPOSED EMERGENCY LIGHTINGS AND EXIT SIGNS GROUND FLOOR PLAN            |
| E3.5 | PROPOSED EMERGENCY LIGHTINGS AND EXIT SIGNS SECOND FLOOR PLAN            |
| E3.6 | PROPOSED GROUND AND SECOND FLOOR WASHROOM POWER PLAN                     |
|      |  |

250 18

250

400

100 70

100 750

175 7

Savings Qty. Watts

33.33% 31.47%

700

1225

NOTE: THIS ENERGY TABLE IS FOR REFERENCE ONLY, CONTRACTOR HAS TO VERIFY THE EXACT QUANTITY OF LIGHTING FIXTURES FROM THE FLOOR PLAN

290 15856

435 23657

| <b></b>          |   |   |      |        |                |     |       |                                |  |          |
|------------------|---|---|------|--------|----------------|-----|-------|--------------------------------|--|----------|
|                  | PROPOSED LIGHTING FIXTURE SCHEDULE                                |   |      |        |                |     |       |                                |  |          |
| TYPE DESCRIPTION |   | LAMP /FIXTURE   |      |        | LAMP           |     |       |                                |  |          |
|                  |   | MAKÉ/MODEL  | VOLT | LUMENS | WATT TYPE COL. |     | MOUNT | REMARKS                        | DLC PRODUCT ID #                       |          |
| A                | 1'X4' RECESSED FIXTURE  | LITELINE LEDP-14-WH-L<br>EQUALS: PEERLESS-ELECTRIC AND LITHONIA   | UNV  | 3190   | 30             | LED | 4000  | DRYWALL<br>CEILING<br>RECESSED | CORRIDOOR DLC CERTIFIED                | P6M484HQ |
| A1               | 1'X4' SURFACE MOUNTED FIXTURE                                     | LITELINE LEDP-14-WH-L WITH LEDP-CLIP<br>EQUALS: PEERLESS-ELECTRIC AND LITHONIA  | UNV  | 3190   | 30             | LED | 4000  | SURFACE<br>MOUNTED             | WASH/CHANGE ROOM DLC<br>CERTIFIED      | P6M484HQ |
| D                | 4' PREMIUM-GRADE HIGH BAY LUMINAIRE, COME<br>WITH WRE GUARD       | VISIONEERING LHBG48-LED840K180L120-W1<br>EQUALS: PEERLESS-ELECTRIC, LITHONIA AND PHILIPS                              | UNV  | 18000  | 177            | LED | 4000  | SURFACE<br>MOUNTED             | GYM<br>DLC CERTIFIED                   | PAG562KR |
| D1               | 24",36",48" RING LED FIXTURE                                      | G LIGHTING CETRIC: 24", 36",48"<br>EQUALS: ALCON LIGHTING RING PENDANT, LUMENWERX TOGO                                | UNV  | 4000   | 40             | LED | 4000  | CEILING<br>SUSPENDED           | STAGE DLC CERTIFIED                    |          |
| D2               | 18",24",30" GLOBE LED FIXTURE                                     | G LIGHTING GLOBE: 18",24",30"<br>EQUALS: ALCON LIGHTINGGLOBE PENDANT 10",12",14",<br>MSA LIGHTING ZUME IN 12",16",22" | UNV  | 1750   | 40             | LED | 4000  | CEILING<br>SUSPENDED           | STAGE-LOBBY<br>DLC CERTIFIED           |          |
| D3               | 10" CYLINDER LED FIXTURE  | CURRENT MC10LED-9-4L-40K-8-120-WW-25-WH<br>EQUALS: PEERLESS-ELECTRIC,LITHONIA AND PHILIPS                             | UNV  | 4000   | 40             | LED | 4000  | CEILING<br>SUSPENDED           | STAGE<br>DLC CERTIFIED                 |          |
| J                | 6" LED POT LIGHT, 1500 LUMEN, WET<br>LOCATIONS                    | PRESCOLITE LFR-6RD-M-15L-40K9-WD-DM1/LFR-6RD-T-S<br>EQUIVALENT BY PEERLESS, METALUMEN OR PHILLIPS                     | UNV  | 1500   | 11.4           | LED | 4000  | CANOPY<br>CEILING<br>RECESSED  |  |          |
| м                | 4' CHAIN SUSPENDED STRIP FIXTURE WITH WRE<br>GUARD                | VISIONEERING LCOM48-LED840K030L120-P77-W5   | UNV  | 3103   | 22             | LED | 4000  | CEILING<br>SUSPENDED           | CUSTODIAN /STORAGE<br>DLC CERTIFIED    | PGM7ADYJ |
| м1               | 4' COMMERCIAL GRADE LED STRIP FIXTURE WITH<br>WIRE GUARD          | VISIONEERING LCOM48-LED840K030L120-P77-W5   | UNV  | 3103   | 22             | LED | 4000  | SURFACE<br>MOUNTED             | MECHANICAL/ELEC. ROOM DLC<br>CERTIFIED | PGM7ADYJ |
| Q                | 2'X4' RECESSED FIXTURE  | LITELINE LEDP-24-WH-L EQUALS: PEERLESS-ELECTRIC<br>AND PEERLESS-ELECTRIC  | UNV  | 4860   | 40             | LED | 4000  | DRYWALL<br>CEILING<br>RECESSED | OFFICES, CORRIDOR DLC<br>CERTIFIED     | РАЗ95СКВ |
| Q1               | 2'X4' RECESSED FIXTURE  | LITELINE LEDP-24-WH-L EQUALS: PEERLESS-ELECTRIC<br>AND PEERLESS-ELECTRIC  | UNV  | 6580   | 50             | LED | 4000  | DRYWALL<br>CEILING<br>RECESSED | CLASSROOMS DLC CERTIFIED               | PE2EPS39 |
| ма               | LED FULL CUT OFF WALL PACK, DIE CAST<br>ALUMINUM HOUSING AND DOOR | EXO LNC2-48L35-5K7-3-UNV EQUIVALENT BY<br>COOPER, CANLYTE OR GE   | UNV  | 2607   | 35             | LED | 4000  | WALL<br>MOUNTED                | DLC CERTIFIED                          |          |
| s                | 4' LED WALL MOUNTED   | VISIONEERING LELW48-LED840K20LUNV-XX EQUALS:<br>PEERLESS-ELECTRIC, LITHONIA AND GE                                    | UNV  | 2000   | 19             | LED | 4000  | STAIRS<br>WALL<br>MOUNTED      |  | Р9G8JTUH |
| J1               | 6" LED POT LIGHT, 1500 LUMEN                                      | PRESCOLITE LFR-6RD-M-15L-40K9-WD-DM1/LFR-6RD-T-S<br>EQUIVALENT BY PEERLESS, METALUMEN OR PHILLIPS                     | UNV  | 1500   | 11.4           | LED | 4000  | CEILING<br>RECESSED            | NEW CATHOLIC DISPLAY                   |          |
| EX               | EXISTING FIXTURES TO REMAIN                                       |   |      |        |                |     |       |                                |  |          |
| EX-R             | EXISTING FIXTURES NOT TO BE REPLACED.<br>RE-LAMPING.              |   |      |        |                |     |       |                                |  |          |
|                  |   |   |      |        |                |     |       |                                |  |          |

- MANUFACTURER AND BECOME FAMILIAR WITH G CONTROL SYSTEM. PURPOSES, ALL MEASUREMENTS ARE TO BE
- DONED CONDUIT AND WIRING BACK TO SOURCE. UIT IS TO BE LEFT BEHIND AND EXISTING WIRE IS
- RAWINGS IN DWG AND PDF FORMAT AT THE COMPLETION OF THE PROJECT. CAD FILES ARE TO BE AUTOCAD 2004.
- UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN CONDUIT AND CONCEALED IN WALLS AND CEILING SPACES. BX IS PERMITTED IN SPECIAL CIRCUMSTANCES AND SHORT DROP FROM JUNCTION BOXES TO LIGHT FIXTURES, REFER TO SPECIFICATIONS. CONDUIT RUNS ARE TO BE PARALLEL TO WALL STUDS AND DROP FROM JUNCTION BOXES MOUNTED IN THE CEILING SPACE.
- UNLESS SPECIFICALLY NOTED AS "CABLING BY OTHERS". THE CONTRACTOR SHALL INCLUDE FOR ALL CABLING TO DEVICES ETC AS SHOWN FOR A COMPLETE AND FUNCTIONING SYSTEM(S).
- CONTRACTOR IS TO MAINTAIN POWER AND COMMUNICATION CIRCUITS IN AREAS OUTSIDE OF THE CONSTRUCTION AREA. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED, COORDINATE WITH OWNER.
- REFER TO CLASSROOM LIGHTING CONTROL DIAGRAM IN ELECTRICAL DETAILS FOR CLASSROOM LIGHTING CONTROL REQUIREMENTS. PROVIDE AND INSTALL ALL DEVICES AND CO-ORDINATE WITH MANUFACTURER FOR REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO ALLOW FOR PROVIDING AND INSTALLING CHAIN SUPPORT FOR THE LIGHTING FIXTURES. 10. CONTRACTOR TO PROVIDE AND INSTALL PHOTOCELL FOR THE CONTROL OF OUTSIDE LIGHTING. LOCATION OF
- THE PHOTOCELL TO BE DETERMINED ON SITE BASED ON CONSULTATION WITH THE CONSULTANTS. 11. ALL ELECTRICAL WIRING TO BE RUN IN EMT CONDUITS. 12. FREE AIR LOW VOLTAGE WIRES ARE ONLY ACCEPTABLE IN CONCEALED CEILING SPACES. ALL EXPOSED LOW
- VOLTAGE WIRES TO BE INSTALLED IN EMT CONDUITS. 13. ALL CONDUITS INSTALLED TO BE PAINTED TO MATCH EXISTING BACKGROUND COLOR SCHEME.
- 14. ALL EXISTING SWITCHES IN THE CORRIDORS, STAIRCASES, CHANGE ROOMS AND WASH ROOMS TO BE REMOVED AND STAINLESS STEEL PLATES TO BE INSTALLED TO COVER THE REMOVED SWITCHES. 15. CONTRACTOR SHALL INSTALL NEW LED LIGHTING FIXTURES, CONTROLS & FIRE RATED BOX AT THE SAME
- TIME TO COMPLETE INSTALLATION. 16. CONTRACTOR SHALL PUT BACK ALL THE CEILING TILES REMOVED TO PERFORM THE LED RETROFIT WORK
- EVERYDAY SO AS NOT TO LEAVE ANY ROOM WITH OPEN CEILING TILES. 17. IT IS MANDATORY FOR THE GC TO BE PRESENT AT SITE WHENEVER WORK IS DONE AT SITE.

## CONTROL SETTING

## CLASSROOM LIGHTING:

- 1. LIGHTING CONTROLS TO CAP OFF THE LIGHTING OUT PUT IN THE CLASS ROOMS TO MEET THE FOOT CANDLE REQUIREMENTS AS STATED IN THE CONTRACT DOCUMENTS. FOR CLASS ROOMS 35-40 FC. 2. WHEN AN OCCUPANT WALKS INTO THE ROOM THE OCCUPANCY SENSOR PICKS UP THE MOTION.
- CORRIDOR & STAIRCASE:
- 1. HIGH OCCUPANCY AS DEFINED BY BAS THRU BACNET, LIGHTING LEVEL TO BE 100% IN CORRIDORS AND STAIRCASE.
- 2. LOW OCCUPANCY AS DEFINED BY BAS THRU BACNET, LIGHTING LEVEL TO BE 50% UNTIL MOTION IS DETECTED, ONCE MOTION IS DETECTED GOES TO 100%. 3. AFTER HOURS AS DEFINED BY BAS THRU BACNET, LIGHTING IN THE CORRIDORS TO BE TURNED OFF AND STAIRCASE TO BE KEPT AT 50%. ONCE MOTION IS DETECTED BOTH THE CORRIDORS AND THE STAIRCASE TO GO TO 100% FOR THE SPECIFIED DURATION.
- 4. WHEN SECURITY IS BREACHED, BAS WILL SENDS AN ALARM SIGNAL TO TURN ON THE CORRIDOR AND STAIRCASE TO 100%, ONCE THE ALARM CONDITION IS CLEARED NORMAL SEQUENCE WILL FOLLOW. CAFETORIUM LIGHTING:
- 1. CAFETORIUM TO HAVE MULTI LOADS WITH DIMMING CAPABILITY. 2. LOAD A WILL BE THE LIGHTING ROW WHICH WILL BE THE FIRST PARALLEL ROW FROM THE STAGE.
- 3. REFER FLOOR PLAN & CONTROL DETAILS FOR FURTHER ASSISTANCE. GYMNASIUM LIGHTING:
- GYMNASIUM SHOULD HAVE 3 SCENE SWITCHING
- 1.1. SCENE SWITCHING ONE- 100% ON FOR TOURNAMENTS 1.2. SCENE SWITCHING TWO- 80% ON- FOR REGULAR USE
- 1.3. SCENE SWITCHING THREE- COMPLETE OFF
- 2. BOTH THE SCENES (100% OR 80%) HAVE DIMMING CAPACITY.

## LIGHTING CONTROL SYSTEM NOTES:

- LOCATE ROOM CONTROLLER IN ACCESSIBLE CEILING. CONFIRM EXACT LOCATION ON SITE. PROVIDE 120V POWER SUPPLY AS NOTED FROM A NEAREST PANEL MSTP WIRING FOR INTEGRATION BETWEEN THE LIGHTING CONTROL SYSTEM ANO BAS MUST MEET FOLLOWING
- REQUIREMENT ALL BACNET DEVICES HAS TO BE BTL LISTED.
- BACNET INSTANCE NUMBER FOR EACH BACNET DEVICE WILL BE PROVIDED BY THE BOARD. (THE SCHOOL BOARD HAS A STANDARD BACNET INSTANCE RANGE PER EACH OF OUR BUILDINGS AND EACH SYSTEM WITHIN THE BUILDING ).
- THE WIRE USED FOR THIS MSTP NETWORK SHOULD BE LOW CAPACITANCE TWISTED SHIELDED CABLE SUITABLE FOR EIA 485 BACNET COMMUNICATION. THE CABLE SHOULD HAVE IMPEDANCE RECOMMENDED BY
- THE MANUFACTURER OF THE BACNET DEVICE ( WATT STOPER ). THE MSTP NETWORK WIRE SHIELD SHALL BE GROUNDED AT ONE END ONLY AND IT SHALL BE AT THE POINT IT IS GETTING INTEGRATED TO BAS. AT ALL OTHER CONTROLLER THE MSTP NETWORK WIRE SHIELD SHALL BE LOOPED.
- END OF LINE SHALL BE INSTALLED AT BOTH ENDS OF THE MSTP TRUNK. . MSTP SHALL BE DAISY CHAINED FROM CONTROLLER TO CONTROLLER. T TAPPING AND STAR WIRING
- TOPOLOGY WILL NOT BE ALLOWED. CORRIDOR AND STAIRCASE LIGHTING TO BE PROGRAMMED TO BE 50% AFTER HOURS. 10. WHEN SECURITY IS BREACHED AFTER HOURS, SECURITY SYSTEM WILL CLOSE A DRY CONTACT AND WILL INFORM BAS, BAS WILL TURN ON CORRIDOR & STAIRCASE LIGHTING TO 100% BY SENDING A COMMAND TO THE LIGHTING CONTROLLER THROUGH BACNET. ONCE SECURITY SIGNAL IS CLEARED, NORMAL LIGHTING
- CONTROL SEQUENCE WILL FOLLOW. . IN SCHOOLS WHERE THE EXISTING BAS IS NOT BACNET COMPATIBLE, LIGHTING CONTROLS CONTRACTOR TO ALLOW FOR PICKING UP TWO DRY CONTACT INPUTS FROM THE SECURITY PANEL TO TURN ON CORRIDOR AND STAIRCASE LIGHTING TO 100% UPON SECURITY BREACH. NORMAL LIGHTING SEQUENCE WILL FOLLOW ONCE THE SECURITY BREACH IS CLEARED. (BAS AT THIS SCHOOL IS NOT BACNET COMPATIBLE)

### NEW LIGHTING FIXTURES IN DRYWALL CEILING

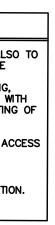
CONTRACTOR TO REMOVE EXISTING FIXTURES FROM THE DRY WALL CEILINGS AND ALSO TO REMOVE THE EXISTING FIXTURE DRY WALL FRAME, GC TO ALLOW FOR PATCHING THE EXISTING DRYWALL CEILING. ONCE THE DRY WALL CEILING. ONCE THE DRY WALL CEILING IS DRY, CUT A NEW OPENING IN THE DRYWALL CEILING, INSTALL THE NEW LIGHTING FIXTURE WITH THE NEW DRY WALL FRAME THAT COMES WITH THE NEW LIGHTING FIXTURE. GC TO ALLOW FOR ALL CUTTING, PATCHING AND PAINTING OF DRYWALL CEILINGS.

GENERAL CONTRACTOR TO ALLOW FOR PROVIDING AND INSTALLING THE FOLLOWING ACCESS PANELS IN THE DRY WALL CEILING. 12" x 12" - 6 EACH

24" × 24" - 6 EACH LOCATION OF THE ACCESS PANEL WILL BE DETERMINED ON SITE DURING CONSTRUCTION.

## WARRANTY LETTER

- LIGHTING MANUFACTURER TO PROVIDE A SEPARATE WARRANTY LETTER ADDRESSED TO THE SCHOOL BOARD WITH PROJECT DETAILS AND ALSO INDICATING THE START DATE AND END DATE OF WARRANTY FOR THE LED LIGHTING FIXTURES.
   WARRANTY LETTER SHALL ALSO INDICATE ALL THE NEW LED LIGHTING FIXTURE TYPES INSTALLED AT THE SCHOOL.

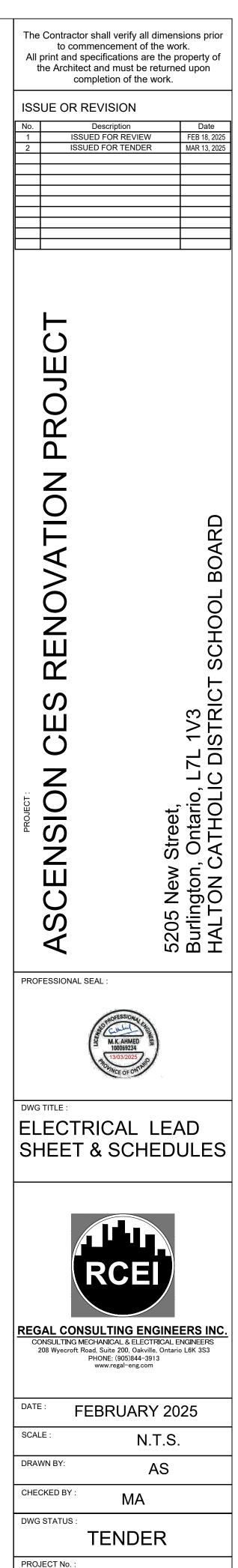


| NOTES  | 6  |   |
|--|--|---|
| NO EXTR<br>CONTRAC<br>FIXTURES<br>ELECTRIC<br>THE LIGH | CAL CONTRACTOR ALSO TO ALLOW F<br>HTING CONTROLLERS FROM THE NEAL<br>V SUSPENDED FIXTURES TO BE AT T | CHANGE IN VOLTAGE.<br>STE BEFORE ORDERING LIGHTING<br>TOR PROVIDING 120V POWER TO<br>REST ELECTRICAL PANEL. |

- EXISTIN 5. MAIN NETWORK HUB REQUIRES CONNECTION TO THE BOARD'S NETWORK TO BE
- MAIN METHORS HER ENDERGY CONTROL THE BOARD'S NETWORK TO BE LOCATED BESIDE BUILDING AUTOMATION HUB.
   BESIDES EVERY PANEL AND LIGHTING CONTROL RELAY, CONTRACTOR TO PROVIDE LAMACOID ATTACHED TO THE T BAR OR DRY WALL CEILING. GIVE NUMBERS IN SEQUENCE.
   CONTRACTOR TO TAKE OUT OR BYPASS THE EXISTING CONTROLS THAT ARE EXECUTED THROUGH BAS.
- EXECUTED THROUGH BAS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LEGRAND 500/700 SERIES SMALL RACEWAY/BACK BOXES TO INSTALL THE CAT 5E LOW VOLTAGE CABLE IN CLASSROOMS/OFFICES/GYM WHERE ADDITIONAL LOW VOLTAGE SWITCHES ARE SHOWN. ALL EXPOSED ELECTRICAL CONDUIT SHALL BE PAINTED TO MATCH EXISTING COLOR.

# NETWORK CABLE

- MS/TP EIA-485 NETWORK SHALL USE SHIELDED, TWISTED PAIR CABLE FOR DATA SIGNALLING WITH CHARACTERISTIC IMPEDANCE BETWEEN 100-130 OHMS. DISTRIBUTED CAPACITANCE BETWEEN CONTROLLERS SHALL BE LESS THAN 100pF PER METER (30pF PER FOOT).
- DISTRIBUTED CAPACITANCE BETWEEN CONDUCTANCE AND SHIELD SHALL BE LESS THAN 200pF PER METER (60pF PER FOOT).



DRAWING No. :

E1

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2025-476

REVISION

# FIRE ALARM NOTES

- CONTRACTOR MUST VISIT THE SITE AND CONFIRM ALL CONSTRUCTION DETAILS PRIOR TO SUBMITTING THE TENDER. THE CONSTRUCTION DETAILS
- MAY INCLUDE BUT NOT BE LIMITED TO FOLLOWING: 1.1. PENETRATION THROUGH THE EXISTING WALLS AND SLABS
- 1.2. INTERFERENCE WITH STRUCTURAL ELEMENTS
- 1.3. INTERFERENCE WITH LIGHTING FIXTURES, MECHANICAL DUCTWORK AND PIPING ETC.
- ROUTING OF THE NEW CONDUITS/RACEWAYS 1.4. 1.5. CUTTING AND PATCHING REQUIREMENT
- 2. ALL FIRE ALARM SYSTEM WIRING SHALL BE NEW AND SHALL BE RUN IN CONDUITS UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 3. ALL CONDUITS IN FINISHED AREAS MUST BE RUN COMPLETELY CONCEALED. CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
- EXISTING FIRE ALARM SYSTEM MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, ONCE THE NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED VERIFIED AND APPROVED BY THE FIRE DEPARTMENT, THE CONTRACTOR TO DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM C/W ALL DEVICES, WIRING, EXPOSED CONDUITS AND JUNCTION BOXES. PROVIDED BLANK COVER PLATES FOR ALL REDUNDANT OUTLET BOXES. CONTRACTOR MUST CONFIRM ROOM NAMES AND NUMBERS ON SITE AND
- MAKE NECESSARY MODIFICATIONS TO ZONE INDICATION MESSAGES PROVIDE FOLLOWING SPARE DEVICES AND INSTALL AS PER THE ENGINEERING
- DISCRETION ON SITE AND HAND OVER ALL UNUSED DEVICES TO THE OWNER AT THE COMPLETION OF THE PROJECT: 6.1. 10 HEAT DETECTORS
- 5 PULL STATION 6.2.
- 6.3. 5 HORNS
- 6.4. 5 HORN/STROBES
- 6.5. 5 SMOKE DETECTORS REFER TO THE DSS REPORT OF ISSUED WITH THE TENDER DOCUMENTS. IF THE CONTRACTOR RETAINED FOR THE WORK UNCOVERS A MATERIAL THROUGH DEMOLITION THAT IS SUSPECTED TO CONTAIN ASBESTOS AND NOT INDICATED IN THE ASBESTOS LOCATION REPORT, THE DSS CONSULTANTS SHOULD BE CONTACTED FOR SAMPLE COLLECTION AND ANALYSIS. IF REQUIRED, FURTHER INSTRUCTION WILL BE FORWARDED WHERE MATERIALS ARE CONFIRMED TO CONTAIN ASBESTOS AND WILL IMPACT ON THE CONSTRUCTION WORK.
- 8. ALL DEVICE LOCATION INDICATED ON THE PLANS IS FOR REFERENCE AND PRICING ETC. ACTUAL LOCATIONS OF THE DEVICES MUST BE DETERMINED ON SITE BY THE CONTRACTOR TO ENSURE THAT THE LOCATIONS COMPLY WITH THE APPLICABLE CODE REQUIREMENTS AND THE DEVICES ARE EASILY ACCESSIBLE FOR MAINTENANCE AND VERIFICATION PURPOSES, INSTALLATION OF DEVICES DIRECTLY OVER BOILER ETC. ARE NOT PERMITTED FEES SUBJECT TO RELOCATION AT THE CONTRACTOR'S COST.
- 9. CONTRACTOR TO CONFIRM LOCATIONS OF THE EXISTING COMPUTER/HUB ROOMS ON SITE AND INSTALL SMOKE DETECTOR IN EACH.
- 10. CONTRACTOR TO PROVIDE AND INSTALL A SMOKE DETECTOR AT THE TOP OF THE ELEVATOR SHAFT AND A HEAT DETECTOR IN THE ELEVATOR PIT. . CONTRACTOR TO ALLOW FOR FIRE STOPPING WHEREVER RUNNING CONDUIT
- THROUGH FIRE SEPARATION IN ORDER TO MAINTAIN THE INTEGRITY OF THE EXISTING FIRE SEPARATION. 12. UPON COMPLETION OF THE FIRE ALARM REPLACEMENT PROJECT, THE FIRE
- ALARM MANUFACTURER SHALL PROVIDE PROGRAMMING CODE TO THE SCHOOL BOARD.
- 13. PROVIDE UNIT PRICE FOR THE FOLLOWING FIRE ALARM DEVICES, UNIT PRICE SHALL INCLUDE VERIFICATION OF THE FIRE ALARM DEVICES: 13.1 SMOKE DETECTORS.
- 13.2 HEAT DETECTORS.
- 13.3 FA HORNS.
- 13.4 FA HORNS/STROBES. 13.5 PULL STATIONS.

# FIRE ALARM SCOPE OF WORK

INTENDED SCOPE OF WORK OF THIS PROJECT SHALL INCLUDE BUT NOT BE LIMITED TO FOLLOWING:

- 1. THE ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM HORN AND FIRE ALARM HORN & STROBE THAT ARE BEING DEMOLISHING. 2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW COMBINATION
- HORN/STROBE UNITS AS SHOWN ON THE ELECTRICAL DRAWINGS. 3. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) DAYS OF FIRE
- WATCH DURING THE REPLACEMENT PROCESS. 4. ALL NEW FIRE ALARM HORN/STROBE UNITS SHALL BE CONNECTED TO THE
- EXISTING FIRE ALARM PANEL. 5. THE EXISTING FIRE ALARM PANEL, FIRE ALARM ANNUNCIATOR, SMOKE DETECTORS, HEAT DETECTORS, AND FIRE ALARM PULL STATIONS SHALL REMAIN UNCHANGED.
- 6. THE CONTRACTOR SHALL PERFORM ALL NECESSARY TESTING AND VERIFICATION TO ENSURE PROPER FUNCTIONALITY AND COMPLIANCE WITH APPLICABLE CODES AND STANDARDS.
- UPON COMPLETION AND APPROVAL OF THE NEW FIRE ALARM HORN/STROBE
- INSTALLATION. ALL ASSOCIATED WIRING AND CONDUIT SHALL REMAIN IN PLACE. 8. ALL AFFECTED SURFACES SHALL BE PAINTED AND MADE GOOD TO CONSULTANTS AND OWNERS SATISFACTION, AND TO MATCH EXISTING.
- 9. ALL AFFECTED SURFACES SHALL BE PAINTED AND MADE GOOD TO
- CONSULTANT'S AND OWNER'S SATISFACTION, AND TO MATCH EXISTING. 10. UPON COMPLETION OF THE FIRE ALARM PROJECT THE CONTRACTOR SHALL PROVIDE TO THE SCHOOL BOARD A CLEAN UPDATED PASSIVE GRAPHICS SOFT COPY WITH NO WATERMARKS FOR THEIR RECORDS.

# FIRE ALARM NOTE

UPON COMPLETION OF THE NEW FIRE ALARM HORN & STROBE INSTALLATION, THE CONTRACTOR SHALL CONNECT THE NEW DEVICES TO THE EXISTING EDWARDS FIRE ALARM PANEL, ENSURE THAT THE PANEL REMAINS IN PLACE, AND RETURN THE ENTIRE FIRE ALARM SYSTEM TO THE OWNER IN GOOD WORKING CONDITION.

# EMERGENCY AND EXIT SIGN NOTES

- CONTRACTOR MUST VISIT THE SITE AND CONFIRM ALL CONSTRUCTION DETAILS PRIOR TO SUBMITTING THE TENDER. THE CONSTRUCTION DETAILS MAY INCLUDE BUT NOT BE LIMITED TO FOLLOWING: 1.1. PENETRATION THROUGH THE EXISTING WALLS AND SLABS
- 1.2. INTERFERENCE WITH STRUCTURAL ELEMENTS 1.3.
- PIPING ETC. ROUTING OF THE NEW CONDUITS/RACEWAYS 1.4.
- 1.5. CUTTING AND PATCHING REQUIREMENT 2. ALL CONDUITS IN FINISHED AREAS MUST BE RUN COMPLETELY CONCEALED. CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
- 3. REFER TO THE DSS REPORT OF ISSUED WITH THE TENDER DOCUMENTS. IF THE CONTRACTOR RETAINED FOR THE WORK UNCOVERS A MATERIAL THROUGH DEMOLITION THAT IS SUSPECTED TO CONTAIN ASBESTOS AND NOT INDICATED IN THE ASBESTOS LOCATION REPORT, THE DSS CONSULTANTS SHOULD BE CONTACTED FOR SAMPLE COLLECTION AND ANALYSIS. IF REQUIRED, FURTHER INSTRUCTION WILL BE FORWARDED WHERE MATERIALS ARE CONFIRMED TO CONTAIN ASBESTOS AND WILL IMPACT ON THE CONSTRUCTION WORK.
- 4. ALL DEVICE LOCATION INDICATED ON THE PLANS IS FOR REFERENCE AND PRICING ETC, ACTUAL LOCATIONS OF THE DEVICES MUST BE DETERMINED ON SITE BY THE CONTRACTOR TO ENSURE THAT THE LOCATIONS COMPLY WITH THE APPLICABLE CODE REQUIREMENTS AND THE DEVICES ARE EASILY ACCESSIBLE FOR MAINTENANCE AND VERIFICATION PURPOSES, INSTALLATION OF DEVICES DIRECTLY OVER BOILER ETC. ARE NOT PERMITTED FEES SUBJECT TO RELOCATION AT THE CONTRACTOR'S COST.

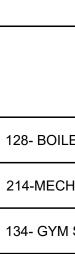
# EMERGENCY LIGHTS AND EXIT SIGN SCOPE OF WORK

INTENDED SCOPE OF WORK OF THIS PROJECT SHALL INCLUDE BUT NOT BE LIMITED TO FOLLOWING: 1. SUPPLY AND INSTALLATION OF EMERGENCY LIGHTS, EXIT SIGNS AND BATTERY

- UNITS , ACCORDANCE TO APPLICABLE CODES AND STANDARDS AND AS INDICATED HEREIN.
- 2. PROVIDE AND INSTALL NEW EXIT SIGNS AS SHOWN ON PLANS, CONNECT TO THE EXISTING CIRCUIT.
- 3. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUITS AND CABLES REQUIRED TO CONNECT THE NEW EMERGENCY LIGHTING FIXTURES. EXIT SIGNS. AND BATTERY UNITS TO THE EXISTING SYSTEM, ENSURING THAT ALL NEW INSTALLATIONS MEET APPLICABLE CODES AND STANDARDS.
- 4. UPON COMPLETION AND APPROVAL OF THE WORK ALL EXPOSED WIRING AND CONDUITS MUST BE REMOVED AND ALL AFFECTED SURFACES SHALL BE PAINTED EXISTING.

## NOTES:

CONTRACTOR TO INSTALL THE NEW EXIT SIGNS IN THE T BAR CEILING WITH T BAR HANGER AND CHAIN SUPPORT FROM THE JOIST ..



**REFER TO ELECTRICAL SPECIFICATION** 

INTERFERENCE WITH LIGHTING FIXTURES. MECHANICAL DUCTWORK AND

AND MADE GOOD TO CONSULTANTS AND OWNERS SATISFACTION. AND TO MATCH

EMERGENCY LIGHTING FIXTURE SCHEDULE

- 1. CONTRACTOR IS TO INCLUDE FOR ALL ACCESSORIES AS REQUIRED FOR A FULL AND COMPLETE INSTALLATION. PARTS NUMBERS SHOWN ARE GENERALLY FOR FIXTURE ONLY. REFER TO ARCHITECTURAL CEILING SCHEDULE FOR CEILING TYPES.
- 2. INSTALLATION OF EMERGENCY LIGHTING AND UNIT EQUIPMENT SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO CODE REQUIREMENTS.
- EMERGENCY BATTERIES SHALL BE SIZED TO MAINTAIN CONNECTED LOAD FOR MINIMUM 1/2 HOUR.
- FOR ALL EXIT SIGNS REFER TO FLOOR PLANS FOR SINGLE OR DOUBLE FACE, CEILING RECESSED 4 OR WALL MOUNTED.
- 5. ALL EMERGENCY LIGHTING AND EQUIPMENT ARE TO HAVE SHOP DRAWINGS SUBMITTED TO THE CONSULTANT PRIOR TO ORDERING FOR APPROVAL. CONTRACTOR MUST INCLUDE SHOP DRAWINGS FOR ALL LAMPS BEING INSTALLED WITH FIXTURES.
- EOUIPMENT BEING SUBMITTED AS AN APPROVED EOUAL ARE TO BE SUBMITTED TO THE 6. CONSULTANT FOR APPROVAL NO LESS THAN 5 BUSINESS DAYS BEFORE CLOSING. SUBMITTALS SHALL BE CLEARLY LABELLED AND INCLUDE COMPLETE FIXTURE CUTS STATING INCLUDED OPTIONS AND ACCESSORIES. SUBMITTALS NOT MEETING THIS CRITERIA WILL BE REJECTED.
- 7. THE CONTRACTOR SHALL INCLUDE FOR TWO (2) SPARE EXIT SIGNS TO BE INSTALLED AS DIRECTED BY OWNER/ENGINEER/BUILDING OFFICIAL. UNUSED SPARE SIGNS SHALL BE TURNED OVER TO OWNER IF NOT REQUIRED.

| ТҮРЕ  | DESCRIPTION  | MODEL #  |
|---|--|--|
| EXIT SIGN   | SELF-POWERED EMERGENCY RUNNING<br>MAN EXIT SIGN C/W DIRECTIONAL<br>PICTOGRAMS FOR ON-SITE DIRECTION<br>SELECTION. 1-1.5W LED 120VAC, 12VDC.<br>REFER TO FLOOR PLANS FOR SINGLE OR<br>DOUBLE FACE, CEILING RECESSED OR<br>WALL MOUNT. | AIMLITE 'RPALW' SERIES<br>RPALW-X-M-WHT-BAT<br>STANPRO 'RMXL' SERIES RMXLUWH-IB<br>LUMACELL 'LA' SERIES LAXWS<br>OR APPROVED EQUAL   |
| EMERG.<br>BATTERY<br>UNIT<br>C/W<br>EMERG.<br>HEADS | SURFACE MOUNTED BATTERY UNIT C/W<br>TWIN HEADS AS INDICATED.<br>2-3W LED PAR18 (2-6W MR16LED), 120VAC,<br>12VDC. UNIT TO BE C/W AUTO-TEST AND<br>BATTERY DISCONNECT.   | AIMLITE 'EBST' SERIES<br>EBST-12-250-2SM3WLJ-WHT-ATD-BTD<br>STANPRO 'SL' SERIES<br>SLC-12-250-2N3WLJ-WH-AT-BD<br>LUMACELL 'RGS' SERIES<br>RG12S-250-2LD10-AT-LD<br>OR APPROVED EQUAL |
| EMERG.<br>BATTERY<br>UNIT                           | SURFACE MOUNTED BATTERY UNIT.<br>120VAC, 12VDC. UNIT TO BE<br>C/W AUTO-TEST AND BATTERY<br>DISCONNECT.   | AIMLITE 'EBST' SERIES<br>EBST-12-450-WHT-ATD-BTD<br>STANPRO 'SL' SERIES SLC-12-450-WH-AT-E<br>LUMACELL 'RGS' SERIES RG12S-450-AT-LD<br>OR APPROVED EQUAL                             |
| EMERG.<br>REMOTE<br>HEADS                           | REMOTE EMERGENCY SINGLE AND<br>DOUBLE HEAD AS INDICATED ON PLANS.<br>3W LED PAR18 (6W MR16LED), 12VDC.   | AIMLITE RMSM1-6-12-3WLJ-WHT &<br>RMSM2-6-12-3WLJ-WHT<br>STANPRO N-1-6-12-3WLJ-WHT &<br>N-2-6-12-3WLJ-WHT<br>LUMACELL MQM1LD10 & MQM2LD10<br>OR APPROVED EQUAL                        |

## PROPOSED BATTERY UNIT SCHEDULE

| LOCATION                   |             | EXIT SIGNS | DOUBLE | SINGLE HEADS | CONNECTED   | CAPACITY (WATT) |      |      |  |  |
|----------------------------|-------------|------------|--------|--------------|-------------|-----------------|------|------|--|--|
| LOCATION                   | UNIT UNMBER | EAT SIGNS  | HEADS  | SINGLE HEADS | LOAD (WATT) | 30 MIN          | 1H00 | 1H30 |  |  |
| LER ROOM                   | BU-A        | 14         | 23     | 6            | 368         | 720             | 420  | 300  |  |  |
| CHANICAL ROOM SECOND FLOOR | BU-B        | 7          | 14     | 1            | 202         | 720             | 420  | 300  |  |  |
| M STORAGE ROOM ROOM        | BU-C        | 2          | 6      | 1            | 86          | 720             | 420  | 300  |  |  |

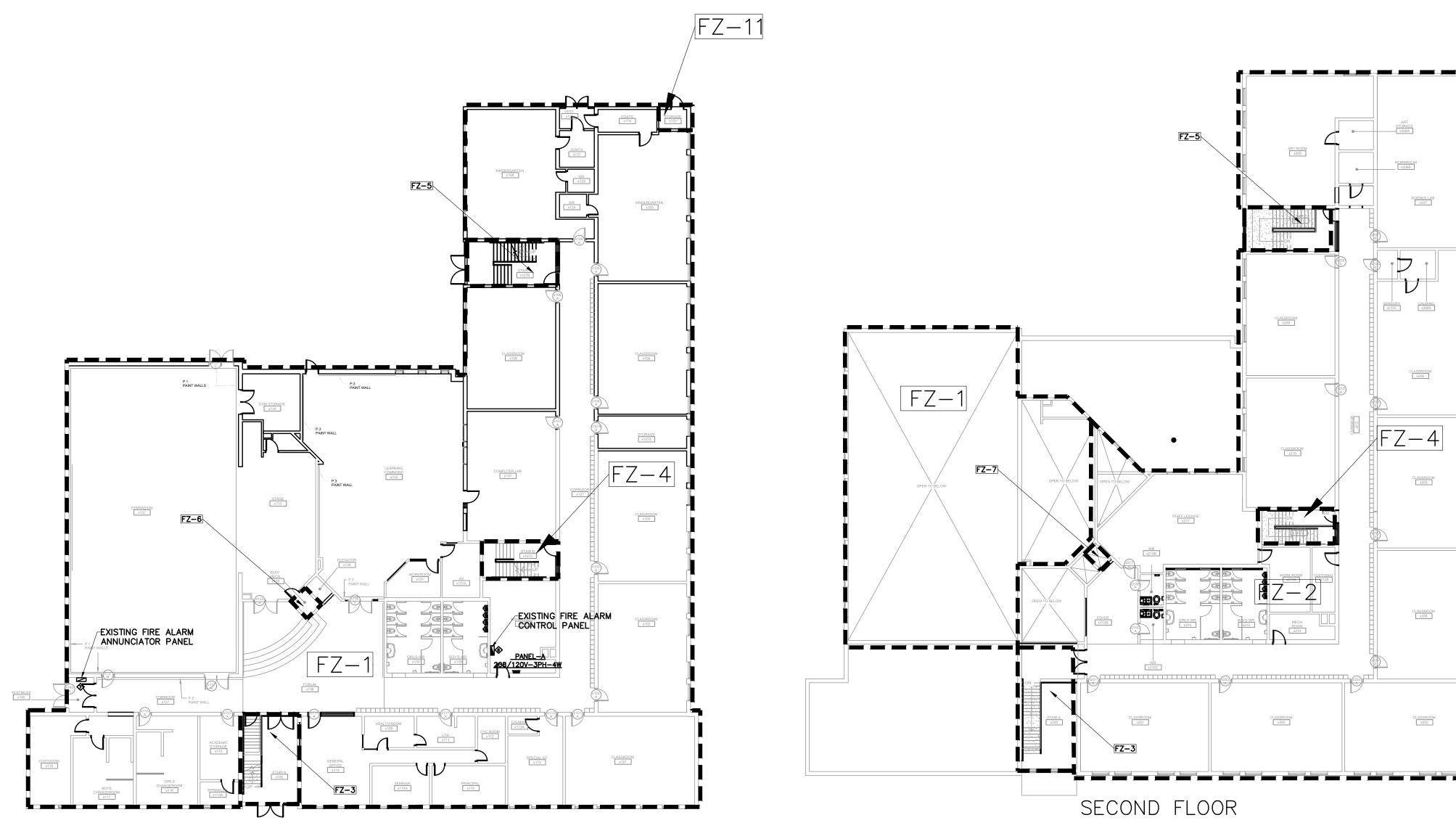
|           | to com<br>All print and s        | or shall verify all dim<br>nmencement of the<br>pecifications are th  | woi<br>ie pi     | rk.<br>roperty of   |
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|           |                                  | ct and must be retumpletion of the wor  |                  | d upon  |
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| 1         |                                  | UED FOR REVIEW<br>UED FOR TENDER  |                  | FEB 18, 2025<br>MAR 13, 2025  |
|           |                                  |   |                  |   |
|           |                                  |   |                  |   |
|           |                                  |   |                  |   |
| PROJECT : | ASCENSION CES RENOVATION PROJECT |   | 5205 New Street, | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
| E         | WG TITLE :<br>LECTR<br>CHEDU     | ICAL EQU  | IP               | MENT  |
| RE        | CONSULTING M                     | CHANICAL & ELECTRIC<br>RODUCTION CONTROL OF CON | AL EI            | NGINEERS  |
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| S         | CALE :                           | N.T.S.  |                  |   |
| DF        | RAWN BY:                         | AS  |                  |   |
| CI        | HECKED BY :                      | MA  |                  |   |
| D         | WG STATUS :                      | TENDER  |                  |   |
| PF        | ROJECT No. :                     | 2025-47   | 76               | 3   |
| ד<br>DF   |                                  | 1.1   |                  | REVISION  |

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| MAIN BREAKER                             | XISTING               |              |   |          |       |        |             |             | ELECTRICAL PANEL:<br>208/120-3Ø-60HZ, 4W, 225<br>AMP MAIN BREAKER | EXIST       | NG | PAN      | ELE        | 30 A  | RD       | C SCH         | HEDUL         | E                     |
|--|-----------------------|--------------|---|----------|-------|--------|-------------|-------------|---|-------------|----|----------|------------|-------|----------|---------------|---------------|-----------------------|
| DESCRIPTION                              | BRKR<br>SIZE<br>(A) A | PER PHASE CF |   | CR WATTS | PER P | HASE B | RKR<br>SIZE | DESCRIPTION |   | BRKR        |    | ER PHASE |            |       |          | VATTS PER PHA | SF BRKR       |                       |
| DESCRIPTION                              | (A) A                 | B C NO       |   | NO A     | В     |        | (A)         | DESCRIPTION | DESCRIPTION   | SIZE<br>(A) |    | B C      | CR<br>NO B | US AB |          |               | SIZE<br>C (A) | DESCRIPTION           |
| NIGHT/EXIT LIGHTS & BU-A                 | 15                    | 0,           |   | 02       |       |        | 15          | EXISTING    | NIGHT/EXIT LIGHTS & BU-B  | (A)<br>15   |    |          | 01         |       | 02       |               | 15 (A)        | EXISTING              |
| EXISTING                                 | 15                    | 03           | 3   + + -                                     | 04       |       |        | 15          | EXISTING    | EXISTING  | 15          |    | _        |            |       | 02       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 05           |   | 06       |       |        | 15          |             | EXISTING  | 15          |    |          | 03         |       | 04       |               |               | EXISTING              |
| EXISTING                                 | 15                    | 07           | ァ┨┿┼┼┥  | 08       |       |        | 15          | EXISTING    | EXISTING  |             |    |          | 05         |       | 08       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 09           | <b>ਗ਼</b> ┝╋┥                                 | 10       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          |            |       | 10       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 11           | ┐┝┼┥  | 12       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          | 11         |       | 12       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 13           | 3 +   | 14       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          |            |       | 14       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 15           | ₅│┝╼┥   | 16       |       |        | 15          | EXISTING    | EXISTING  | 15          |    | _        | 15         |       | 14       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 17           | ┦┝┼┥  | 18       |       |        | 15          | EXISTING    | EXISTING  | 15          |    | _        | 13         |       | 18       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 19           | , + +   | 20       |       |        | 15          | EXISTING    |   |             |    |          | 19         |       |          |               | 15            |                       |
| EXISTING                                 | 15                    | 2            | ╷┨┝╴╋╌┤                                       | 22       |       |        | 15          | EXISTING    | EXISTING<br>EXISTING  | 15          |    |          |            |       | 20<br>22 |               |               | EXISTING              |
| SPARE                                    | 20                    | 23           | 3   | 24       |       |        | 15          | EXISTING    |   | 15          |    |          | 21         |       |          |               | 15            |                       |
| EXISTING                                 | 15                    | 25           | ₅┥┿┼┤   | 26       |       |        | 15          | EXISTING    | SPARE   | 15          |    |          | 23         |       | 24       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 27           | ァ┧┝╼┿┥  | 28       |       |        | 15          | EXISTING    | EXISTING  | 15<br>2P    |    |          | 25         |       | 26       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 29           |   | 30       |       |        | 15          | EXISTING    | EVICTIO   |             |    |          | 27         |       | 28       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 3'           | ╷╢╺┿╌┼╌┤                                      | 32       |       |        | 15          | EXISTING    | EXISTING  | 15          |    | _        | 29         |       | 30       |               | 15            | EXISTING              |
| FIRE ALARM CONTROL PANEL (**)            | 15                    | 33           | 3   +   | 34       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          | 31         |       | 32       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 35           |   | 36       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          | 33         | Ţ     | 34       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 37           | ァ┨┢╾┼╾┥                                       | 38       |       |        | 15          | EXISTING    | EXISTING  | 15          |    | _        | 35         |       | 36       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 39           | ╕┠╺   | 40       |       |        | 25          | EXISTING    | EXISTING  | 20          |    |          | 37         |       | 38       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 4'           | ╷┥┝╌┼╶┥                                       | 42       |       |        | 25          | EXISTING    | EXISTING  | 15          |    |          | 39         |       | 40       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 43           | 3 +   | 44       |       |        | 25          | EXISTING    | EXISTING  | 15          |    |          | 41         |       | 42       |               | 15            | EXISTING              |
| EXISTING                                 | 20                    | 45           | ╗┝╼┥  | 46       |       |        | 25          | EXISTING    | EXISTING  | 15          |    |          | 43         |       | 44       |               | 15            | EXISTING              |
| EXISTING                                 | 20                    | 47           |   | 48       |       |        | 25          | EXISTING    | EXISTING  | 15          |    |          | 45         |       | 46       |               | 15            | EXISTING              |
| EXISTING                                 | 20                    | 49           | ╗╋╌┼┥   | 50       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          | 47         |       | 48       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 5            | ┤┝╺┥  | 52       |       |        | 15          | EXISTING    | EXISTING  | 15          |    |          | 49         |       | 50       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 53           |   | 54       |       |        | 20          | EXISTING    | EXISTING  | 15          |    |          | 51         |       | 52       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 55           |   | 56       |       |        |             | EXISTING    | RECEPTACLES GFI   | 20          |    |          | 53         |       | 54       |               | 15            | EXISTING              |
| EXISTING                                 | 15                    | 57           |   | 58       |       |        | 30<br>2P    | EXISTING    | WASH FOUNTAIN   | 20          |    |          | 55         |       | 56       |               | 20            | WASH FOUNTAIN         |
| EXISTING                                 | 15                    | 59           |   | 60       |       |        | 15          | EXISTING    | SPARE   | 15          |    |          | 57         |       | 58       |               | 20            | DOOR HOLD OPEN DEVICE |
| EXISTING                                 | 20                    | 6            |   | 62       |       |        | 10          | SPARE       | PWR FOR DIGITAL CONTROLLERS                                       | 20          |    |          | 59         |       | 60       |               |               | SPARE                 |
| EXISTING                                 | 15                    | 63           |   |          |       |        |             | SPARE       | -   |             |    |          |            |       |          |               |               |                       |
| EXISTING                                 | 20                    | 65           |   | 66       |       |        |             | SPARE       | _   |             |    |          |            |       |          |               |               |                       |
| EXISTING                                 | 15                    | 67           |   | 68       |       |        |             | SPARE       | -   |             |    |          |            |       |          |               |               |                       |
| EXISTING                                 | 15                    | 69           |   | 70       |       |        |             | SPARE       | -   |             |    |          |            |       |          |               |               |                       |
| SPARE                                    | 15                    | 7            |   | 70       |       |        |             | SPARE       | -   |             |    |          |            |       |          |               |               |                       |
| SPARE                                    | 15                    | 73           |   | 72       |       |        |             | SPARE       | 4   |             |    |          |            |       |          |               |               |                       |
| SPARE                                    |                       |              |   | 74       |       |        |             | SPARE       | 4   |             |    |          |            |       |          |               |               |                       |
|  | 15                    | 75           |   |          |       |        |             |             | 4   |             |    |          |            |       |          |               |               |                       |
| SPARE                                    | 15                    |              | -11   | 78       |       |        |             | SPARE       | 4   |             |    |          |            |       |          |               |               |                       |
|  | 15                    | 79           |   | 80       |       |        |             |             | 4   |             |    |          |            |       |          |               |               |                       |
| PWR FOR DIGITAL CONTROLLERS              | 20                    | 8            |   | 82       |       |        |             |             | 4   |             |    |          |            |       |          |               |               |                       |
| SPARE                                    | 15                    | 83           | <u>,                                     </u> | 84       |       |        |             |             | 4   |             |    |          |            |       |          |               |               |                       |
| GROUND FAULT INTERRUPTER CIRCUIT BREAKER |                       |              |   |          |       |        |             |             |   |             |    |          |            |       |          |               |               |                       |

| LECTRICAL PANEL:<br>08/120-3Ø-60HZ, 4W, 125<br>MP MAIN BREAKER | EXIST        | INC   | βP    | AN    | EL | BOA           | \R[ | ) F   | SC      | CHE   | DU           | LE              |
|--|--------------|-------|-------|-------|----|---------------|-----|-------|---------|-------|--------------|-----------------|
| DESCRIPTION  | BRKR<br>SIZE | WATTS | S PER | PHASE | CR | BUS AB        | CR  | WATTS | S PER F | PHASE | BRKR<br>SIZE | DESCRIPTION     |
| DESCRIPTION  | (A)          | Α     | В     | С     | NO | DUS AD        | NO  | А     | В       | С     | (A)          | DESCRIPTION     |
| EXIT LIGHT & BU-C  | 15           |       |       |       | 01 | •             | 02  |       |         |       | 15           | EXISTING        |
| EXISTING   | 15           |       |       |       | 03 | ┃┝╼┿─┤        | 04  |       |         |       | 15           | EXISTING        |
| EXISTING   | 15           |       |       |       | 05 | ╽┝─┼─┥        | 06  |       |         |       | 15           | EXISTING        |
| EXISTING   | 15           |       |       |       | 07 | │ <b>∳</b> ├─ | 08  |       |         |       | 15           | EXISTING        |
| EXISTING   | 15           |       |       |       | 09 | ╽┝╼┿─┤        | 10  |       |         |       | 15           | EXISTING        |
| EXISTING   | 20           |       |       |       | 11 | ╽┝─┼─┥        | 12  |       |         |       | 15           | EXISTING        |
| EXISTING   | 20           |       |       |       | 13 | 🔶 🔶           | 14  |       |         |       | 15           | EXISTING        |
| EXISTING   | 20           |       |       |       | 15 | ╽┝╼╋╌┥        | 16  |       |         |       | 15           | EXISTING        |
| EXISTING   | 20           |       |       |       | 17 | ╽┝─┼─┥        | 18  |       |         |       | 15           | EXISTING        |
| EXISTING   | 20           |       |       |       | 19 | ╽┿╶┼─         | 20  |       |         |       | 20           | RECEPTACLES GFI |
| EXISTING   | 35           |       |       |       | 21 | ┃┝╼╋╼┥        | 22  |       |         |       | 20           | WASH FOUNTAIN   |
| EXISTING   | 15           |       |       |       | 23 | ╎└┴┥          | 24  |       |         |       | 20           | WASH FOUNTAIN   |

|         | All print and specifica<br>the Architect and m                                    | ment of the wor<br>tions are the p       | rk.<br>roperty of   |
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|         |   |  | Dete  |
|         | No.         Descrip           1         ISSUED FOR           2         ISSUED FOR | REVIEW                                   | Date<br>FEB 18, 2025<br>MAR 13, 2025                                  |
|         |   |  |   |
|         |   |  |   |
|         |   |  |   |
|         | ASCENSION CES RENOVATION PROJECT  | 5205 New Street,                         | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
|         | 4 TOMO  | AHMED<br>DB9234<br>D3/2025<br>E OF ONTME |   |
|         | ELECTRICA<br>SCHEDULE   |  | NEL   |
|         | REGAL CONSULTI<br>CONSULTING MECHANICA<br>208 Wyecroft Road, Suite<br>PHONE: (    | L & ELECTRICAL E                         | NGINEERS  |
|         | DATE : FEBR   | UARY 20<br>N.T.S.                        |   |
|         | DRAWN BY:   | AS                                       |   |
| 01.77.4 | CHECKED BY :<br>DWG STATUS :  |  |   |
| PM      | PROJECT No. :   | 25-476                                   | 6   |
| PM      | DRAWING No. :   |  | REVISION  |



GROUND FLOOR

| P MAIN BREAKER                | BRKR<br>SIZE | WATTS | PER I | PHASE |      |                    |    | ATTS PE | R PHAS | E BRKR<br>SIZE |             | -   <1.> | THE ELECTRI  |
|-------------------------------|--------------|-------|-------|-------|------|--------------------|----|---------|--------|----------------|-------------|----------|--------------|
| DESCRIPTION                   | SIZE<br>(A)  | A     | В     | С     | NO E | BUS AE             |    | AE      |        |                | DESCRIPTION |          | COMBINATIO   |
| EXISTING                      | 15           |       |       |       | 01   | • · ·              | 02 |         |        | 15             | EXISTING    |          | DRAWINGS.    |
| EXISTING                      | 15           |       |       |       | 03   | ┝┿                 | 04 |         |        | 15             | EXISTING    |          | THE CONTRA   |
| EXISTING                      | 15           |       |       |       | 05   | $\vdash$           | 06 |         |        | 15             | EXISTING    | 7   🗠    | WATCH DURI   |
| EXISTING                      | 15           |       |       |       | 07   | <del>∳  </del> -   | 08 |         |        | 15             | EXISTING    |          | WATCH DUN    |
| EXISTING                      | 15           |       |       |       | 09   | ┝┿╴                | 10 |         |        | 15             | EXISTING    | ]  <3.>  | ALL NEW FIR  |
| EXISTING                      | 15           |       |       |       | 11   | $\vdash$           | 12 |         |        | 15             | EXISTING    |          | EXISTING FIR |
| EXISTING                      | 15           |       |       |       | 13   | <del>ا ∣</del>     | 14 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 15   | ┝┿╴                | 16 |         |        | 15             | EXISTING    | <4.>     | THE EXISTING |
| EXISTING                      | 15           |       |       |       | 17   | $\vdash$           | 18 |         |        | 15             | EXISTING    |          | DETECTORS,   |
| EXISTING                      | 15           |       |       |       | 19   | <del>ا ∣</del>     | 20 |         |        | 15             | EXISTING    |          | REMAIN UNC   |
| EXISTING                      | 15           |       |       |       | 21   | ┝┿                 | 22 |         |        | 15             | EXISTING    |          |              |
| SPARE                         | 20           |       |       |       | 23   | $\vdash$           | 24 |         |        | 15             | EXISTING    | ]  <5.>  | ' THE CONTRA |
| EXISTING                      | 15           |       |       |       | 25   | ┢┼╴                | 26 |         |        | 15             | EXISTING    |          | VERIFICATIO  |
| EXISTING                      | 15           |       |       |       | 27   | ┝┿                 | 28 |         |        | 15             | EXISTING    |          | APPLICABLE   |
| EXISTING                      | 15           |       |       |       | 29   | $\vdash$           | 30 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 31   | <del>أ ∖</del>     | 32 |         |        | 15             | EXISTING    | ]  <6.>  | EXISTING FIR |
| FIRE ALARM CONTROL PANEL (**) | 15           |       |       |       | 33   | ┝┿╴                | 34 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 35   | $\vdash$           | 36 |         |        | 15             | EXISTING    | ]  <7.>  | EXISTING FIR |
| EXISTING                      | 15           |       |       |       | 37   | ┢┼╴                | 38 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 39   | ┝┿╴                | 40 |         |        | 25             | EXISTING    | ]   \``  |              |
| EXISTING                      | 15           |       |       |       | 41   | $\vdash$           | 42 |         |        | 25             | EXISTING    |          | DEVICE AND   |
| EXISTING                      | 15           |       |       |       | 43   | ┥┼╴                | 44 |         |        | 25             | EXISTING    |          |              |
| EXISTING                      | 20           |       |       |       | 45   | ┝┿╴                | 46 |         |        | 25             | EXISTING    |          |              |
| EXISTING                      | 20           |       |       |       | 47   | $\vdash$           | 48 |         |        | 25             | EXISTING    |          |              |
| EXISTING                      | 20           |       |       |       | 49   | <del>┥ ╎</del>     | 50 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 51   | ┝┿╴                | 52 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 53   | $\vdash$           | 54 |         |        | 20             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 55   | <del>•    </del> + | 56 |         |        | 30             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 57   | ┝┿╴                | 58 |         |        | 2P             | EXISTING    |          |              |
| EXISTING                      | 15           |       |       |       | 59   | H                  | 60 |         |        | 15             | EXISTING    |          |              |
| EXISTING                      | 20           |       |       |       | 61   | ┥┼╴                | 62 |         |        |                | SPARE       |          |              |
| EXISTING                      | 15           |       |       |       | 63   | ┝╋╴                | 64 |         |        |                | SPARE       |          |              |
| EXISTING                      | 20           |       |       |       | 65   | $\vdash$           | 66 |         |        |                | SPARE       | _        |              |
| EXISTING                      | 15           |       |       |       | 67   | <b>†</b> †         | 68 |         |        |                | SPARE       |          |              |
| EXISTING                      | 15           |       |       |       | 69   | ┝╋╴                | 70 |         |        |                | SPARE       |          |              |
| SPARE                         | 15           |       |       |       | 71   |                    | 72 |         |        |                | SPARE       |          |              |
| SPARE                         | 15           |       |       |       | 73   | <del>•</del> † †   | 74 |         |        |                | SPARE       |          |              |
| SPARE                         | 15           |       |       |       | 75   | ┝┿╴                | 76 |         |        |                | SPARE       |          |              |
| SPARE                         | 15           |       |       |       | 77   | $\vdash$           | 78 |         |        |                | SPARE       |          |              |
| SPARE                         | 15           |       |       |       | 79   | <b>†</b> †         | 80 |         |        |                |             |          |              |
| SPARE                         | 15           |       |       |       | 81   |                    | 82 |         |        |                |             |          |              |
| SPARE                         | 15           |       |       |       | 83   |                    | 84 |         |        |                |             |          |              |

CONTRACTOR SHALL PROVIDE AND INSTALL NEW RN/STROBE UNITS AS SHOWN ON THE ELECTRICAL

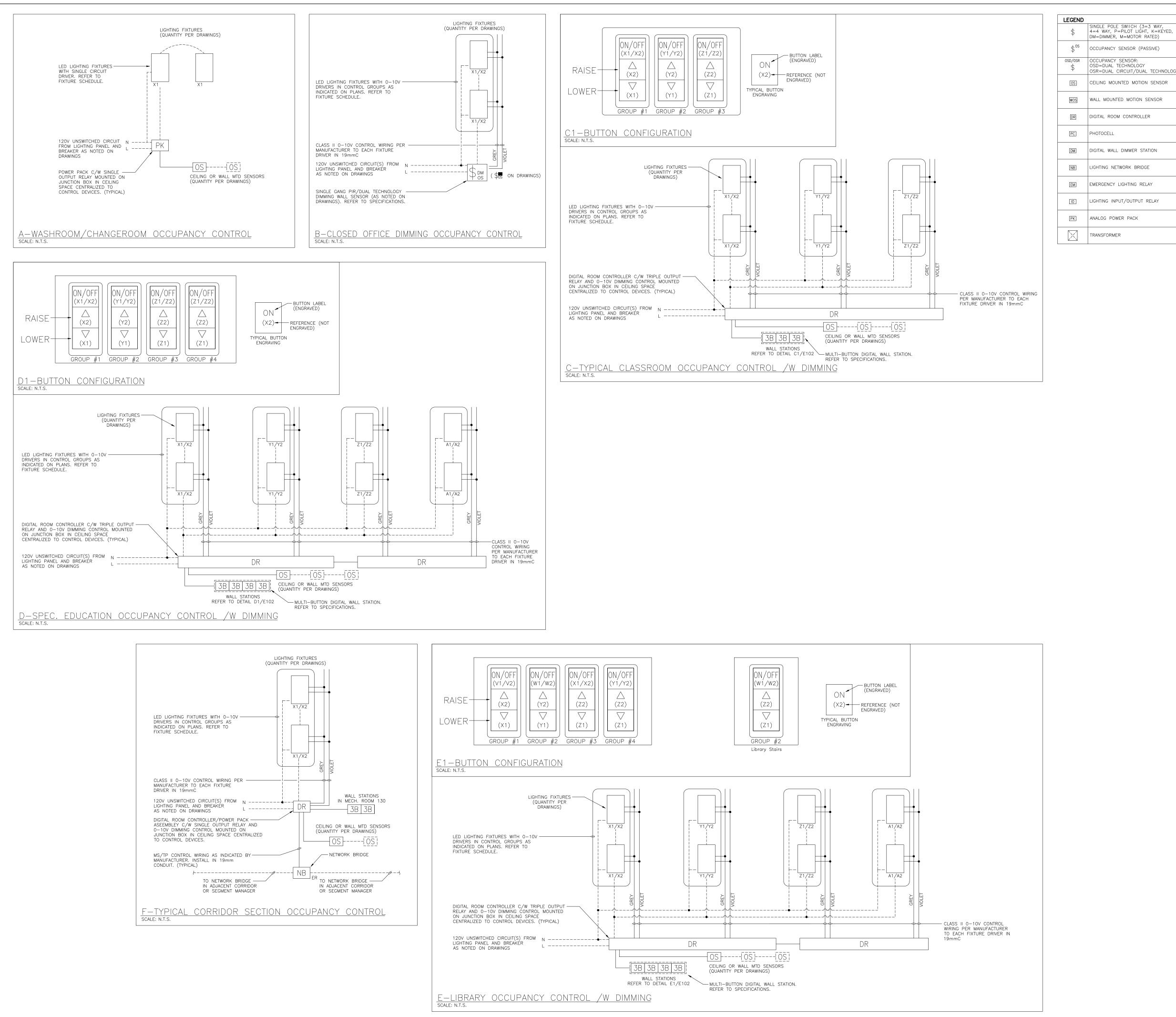
- R SHALL PROVIDE A MINIMUM OF TWO (2) DAYS OF FIRE HE REPLACEMENT PROCESS.
- ARM HORN/STROBE UNITS SHALL BE CONNECTED TO THE ARM PANEL.
- E ALARM PANEL, FIRE ALARM ANNUNCIATOR, SMOKE T DETECTORS, AND FIRE ALARM PULL STATIONS SHALL GED.
- R SHALL PERFORM ALL NECESSARY TESTING AND ENSURE PROPER FUNCTIONALITY AND COMPLIANCE WITH ES AND STANDARDS.
- ARM PANEL ( EDWARDS).
- ARM ANNUNCIATOR ( EDWARDS).
- TRACTOR TO PROVIDE AND INSTALL NEW DOOR HOLD OPEN KE DEDEKTORS AS SHOWN ON THE ELECTRICAL DRAWINGS.



EXISTING FIRE ALARM PANEL

|  | IRE ALARM ANNUCIATOR SCHEDULE |  |  |  |  |  |  |
|--|-------------------------------|--|--|--|--|--|--|
| ZONE<br>FZ-1   | DESCRIPTION                   |  |  |  |  |  |  |
|  | GROUND FLOOR                  |  |  |  |  |  |  |
| FZ-2   | SECOND FLOOR                  |  |  |  |  |  |  |
| FZ-3   | STAIR                         |  |  |  |  |  |  |
| FZ-4   | STAIR                         |  |  |  |  |  |  |
| FZ-5   | STAIR                         |  |  |  |  |  |  |
| FZ—6   | ELEVATOR MACHINE ROOM         |  |  |  |  |  |  |
| FZ-7   | ELEVATOR SHAFT                |  |  |  |  |  |  |
| FZ-8   | GROUND FLOOR - SPKR.FLOW SW   |  |  |  |  |  |  |
| FZ-9   | SECOND FLOOR - SPKR.FLOW.SW   |  |  |  |  |  |  |
| FZ-10  | SPRINKLER - MAIN FLOW SW      |  |  |  |  |  |  |
| FZ-11  | OUTDOOR STORAGE               |  |  |  |  |  |  |
| FZ-12  | SPARE                         |  |  |  |  |  |  |
| FZ-13  | SPARE                         |  |  |  |  |  |  |
| FZ-14  | SPARE                         |  |  |  |  |  |  |
| FZ-15  | SPARE                         |  |  |  |  |  |  |
| FZ-16  | SPARE                         |  |  |  |  |  |  |
| TROUBLE ZONE 1   | MONITORING SWITCH MS-1        |  |  |  |  |  |  |
| TROUBLE ZONE 2   | MONITORING SWITCH MS-2        |  |  |  |  |  |  |
| TROUBLE ZONE 3   | MONITORING SWITCH MS-3        |  |  |  |  |  |  |
| TROUBLE ZONE 4   | MONITORING SWITCH MS-4        |  |  |  |  |  |  |
| TROUBLE ZONE 5   | LOW PRESSURE SWITCH           |  |  |  |  |  |  |
| TROUBLE ZONE 6   | SPARE                         |  |  |  |  |  |  |
| TROUBLE ZONE 7   | SPARE                         |  |  |  |  |  |  |
| TROUBLE ZONE 8   | SPARE                         |  |  |  |  |  |  |
| OTE  |                               |  |  |  |  |  |  |
| 1. ELECTRICAL CONTRACTOR TO ALLOW FOR<br>TRANSFERRING OF THE AUXILIARY CONTACTS FROM THE<br>EXISTING FIRE ALARM SYSTEM TO THE NEW FIRE ALARM<br>SYSTEM. ALLOW FOR WIRING/DEVICES & CONDUITS TO<br>TRANSFER THE AUXILIARY CONTACTS. |                               |  |  |  |  |  |  |

|                              | All print and specific<br>the Architect and               | ement of the wo<br>ations are the p | rk.<br>roperty of   |
|------------------------------|---|-------------------------------------|---|
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|                              | No.     Descr       1     ISSUED FO       2     ISSUED FO | R REVIEW                            | Date<br>FEB 18, 2025<br>MAR 13, 2025                                  |
|                              |   |                                     |   |
|                              |   |                                     |   |
|                              | ASCENSION CES RENOVATION PROJECT                          | 5205 New Street,                    | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
|                              | PROFESSIONAL SEAL :                                       | K AHMED<br>00069234<br>303/2025     |   |
|                              | EXISTING<br>ZONING S                                      |                                     |   |
|                              |   | AL & ELECTRICAL E                   | NGINEERS  |
|                              |   | UARY 20<br>N.T.S.                   | 25  |
| 8                            | DRAWN BY:<br>CHECKED BY :                                 | AS<br>MA                            |   |
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| rch 13, 20                   |   | 25-476                              |   |
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| and specifications                                |   |
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| Description<br>ISSUED FOR REVI<br>ISSUED FOR TEND | Date<br>/IEW FEB 18, 2025   |
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|   | 5205 New Street,<br>Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
| NAL SEAL :  | Т В Q   |
| M.K. AHMED<br>100069234<br>13/03/2025             |   |
| ING CON<br>AILS                                   | NTROL   |
| ING MECHANICAL & EL                               | ENGINEERS INC.<br>ELECTRICAL ENGINEERS<br>Dakville, Ontario L6K 3S3<br>144-3913<br>ng.com |
| N.T.  |   |
| AS<br>BY: MA                                      |   |
| JS:<br>TEND                                       |   |
| <sup></sup> 2025                                  |   |
| ło. :   | REVISION  |
| E1.4  |   |

The Contractor shall verify all dimensions prior

# SINGLE POLE SWIICH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED,



| NOTES:  |
|---|
| TING DEVICES AND EQUIPMENT MAY NOT BE SHOWN<br>/INGS. ELECTRICAL CONTRACTOR TO VERIFY |
| IES PRIOR TO SUBMITTING PRICING.  |

ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE ALL LIGHTING FIXTURES, SWITCHES & CONTROL DEVICES IN THE

DISCONNECT ALL WIRING TO LIGHTING FIXTURES BEING DEMOLISHED BACK TO SOURCE.

4. MARK CIRCUITS FOR RE-ALLOCATING TO NEW CIRCUITS IN THE NEW LED LIGHTING DESIGN.

5. ELECTRICAL CONTRACTOR SHALL CAREFULLY REMOVE THE EXISTING LIGHTING FIXTURES WITHOUT DISTURBING THE EXISTING LIFE SAFETY DEVICES IN THE EXISTING CEILING. IF BY MISTAKE EXISTING LIFE SAFETY DEVICES ARE DAMAGED, THEN CONTRACTOR TO REPLACE AND ALLOW FOR VERIFICATION OF THE SAME.

(6) EXISTING LED LIGHTING FIXTURES IN CORRIDOR TO REMAIN.CONNECT TO THE NEW LIGHTING CONTROL SYSTEMS. CORRIDORS TO INSTALL DIMMING WITH EXISTING LED FIXTURES AND CHANGE TEMPERATURE TO 4000K.

(7.) ELECTRICAL CONTRACTOR TO REMOVE EXISTING GYM SUSPENDED LIGHTS. REMOVE WIRING AND CONDUIT BACK TO

8. DELETE SWITCHES AND PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES.

ELECTRICAL CONTRACTOR TO REVISE EXISTING CLASSROOM CONTROL PANEL (CCP) SWITCH PLATE TO SUIT NEW LIGHTING CONTROL BUTTON STATION OR RENOVATIONS.

(↑) IN THIS AREA AS NOTED, LIGHTING FIXTURES ARE TO BE DISCONNECT AND REMOVED. MAINTAIN AND/OR REWORK WIRING FOR CONNECTION TO THE NEW LIGHTING FIXTURES AS REQUIRED FOR WASHROOM RENOVATIONS.

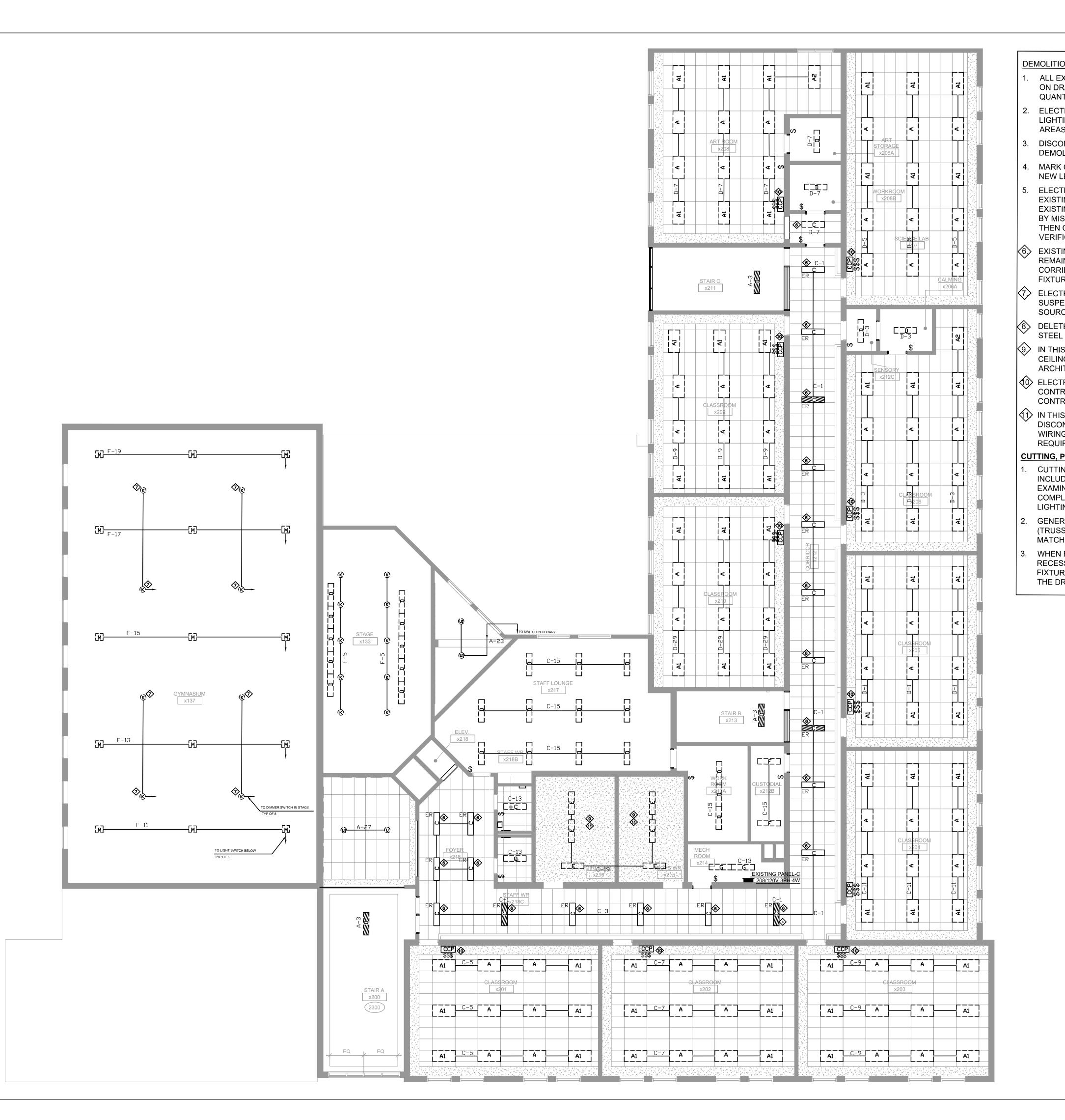
## CUTTING, PATCHING AND PAINTING BY GC

CUTTING AND PATCHING OF THE DRYWALL BY THE GC IS INCLUDED IN THE SCOPE OF WORK. GC TO CAREFULLY EXAMINE ALL THE LIGHTING FLOOR PLAN TO ALLOW FOR COMPLETE CUTTING PATCHING AND PAINTING WORK. FOR THE LIGHTING RETROFIT SCOPE .

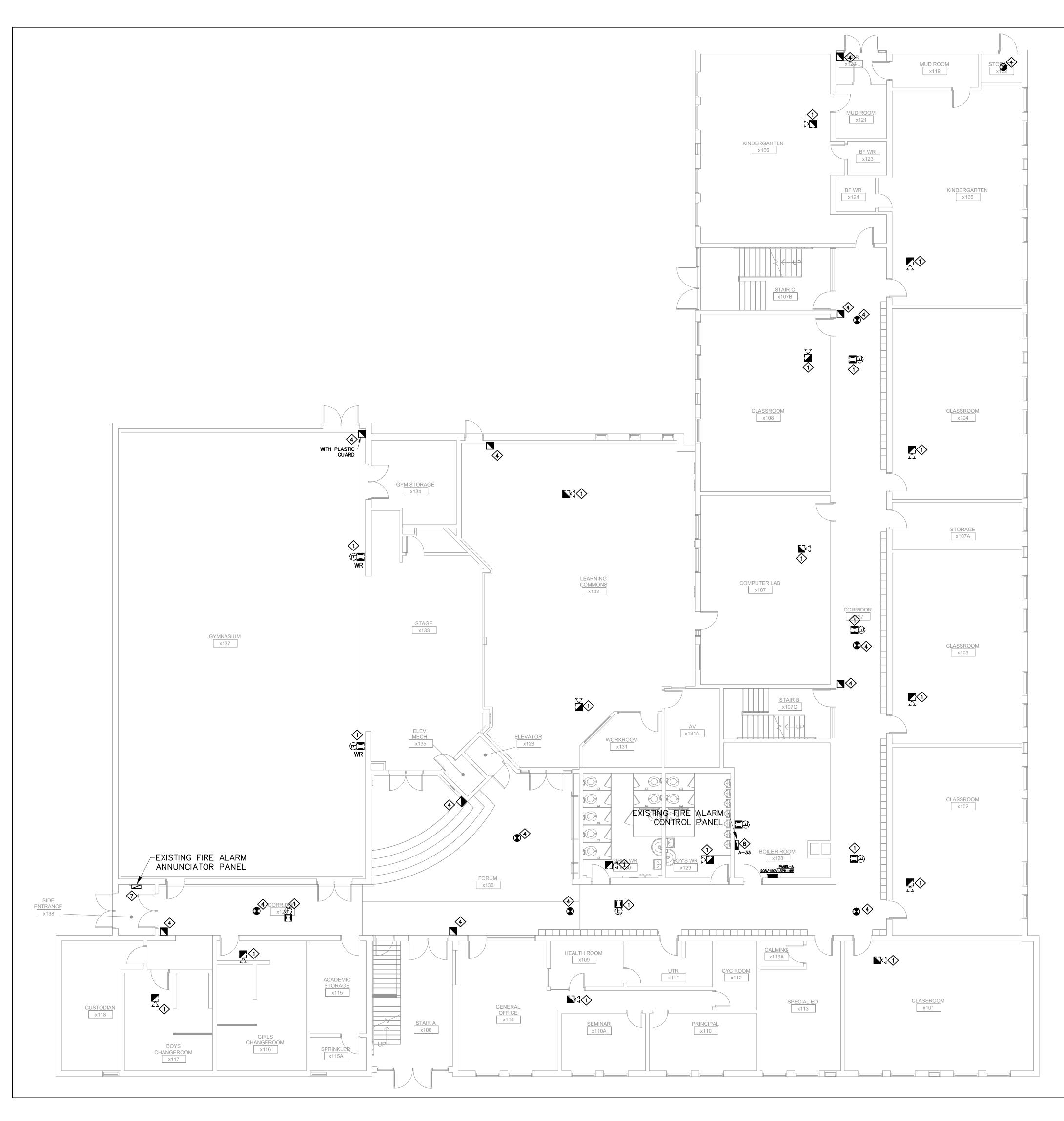
GENERAL CONTRACTOR TO PATCH UP THE PAINT OF THE (TRUSS/STEEL) WHERE THE LIGHTING FIXTURE S REMOVED TO MATCH THE EXISTING COLOR.

WHEN REPLACING EXISTING (1X4) LIGHTING FIXTURES RECESSED IN THE 'T' BAR CEILING WITH (2X4) NEW LIGHTING FIXTURE, CONTRACTOR TO ALLOW FOR REMOVING PART OF THE DROP CEILING GRID.

|    | All                             | to cor<br>print and s<br>he Archite | nmencen<br>specificat<br>ect and m   | erify all dir<br>nent of the<br>ions are the<br>ust be ret<br>of the wo | e woi<br>ne pi<br>urne | operty of   |
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|    |                                 |                                     |  |   |                        |   |
|    |                                 |                                     |  |   |                        |   |
|    | PROJECT :                       | ASCENSION CES RENOVATION PROJECT    |  |   | 5205 New Street,       | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
|    | PRO                             | FESSIONAL                           | Current Curren | SSIDAAT EIG<br>AHMED<br>DB9234<br>372025<br>GP OMME<br>B0<br>GP OMME    |                        |   |
|    | DE                              |                                     |  | n Lio<br>Loof   |                        | TING<br>PLAN  |
|    | C                               | NSULTING N                          | ISULTII<br>MECHANICA<br>Road, Suite 2<br>PHONE: (9   | NG ENG<br>L& ELECTRIC<br>1005)844-3913<br>al-eng.com                    | CAL EI                 |   |
|    | DATE                            | : <b>-</b>                          | יחם  |   | <u></u>                | <u> </u>  |
|    | SCAL                            | F                                   |  | JARY  | 20                     | 20  |
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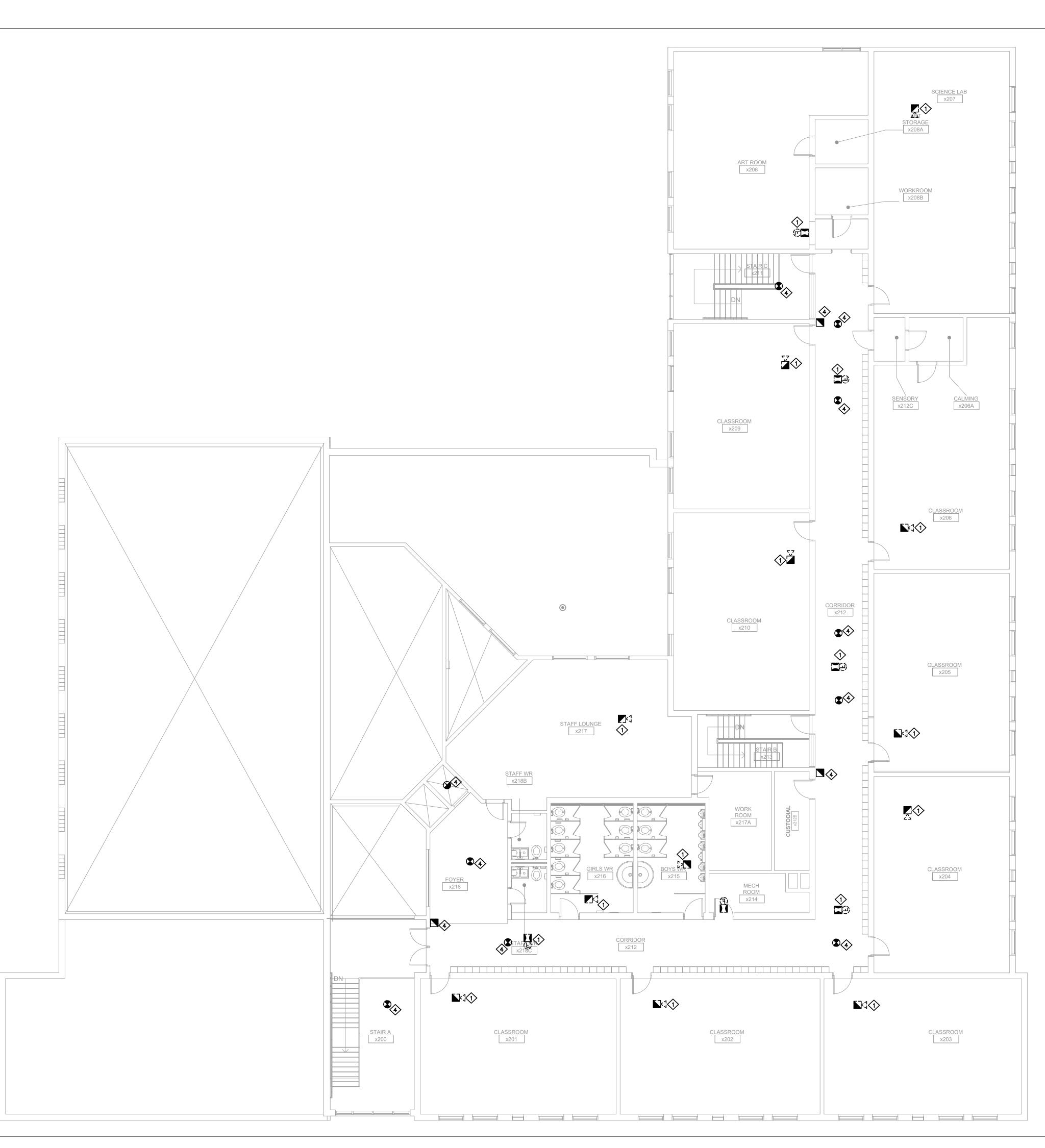
|  |                   |   | ement of the wo                   | ork.                                 |
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| ON NOTES:<br>XISTING DEVICES AND EQUIPMENT MAY NOT BE SHOWN  |                   | All print and specific<br>the Architect and<br>completio                |                                   |                                      |
| RAWINGS. ELECTRICAL CONTRACTOR TO VERIFY<br>ITITIES PRIOR TO SUBMITTING PRICING.   | IS                |   |                                   |                                      |
| TRICAL CONTRACTOR TO DISCONNECT AND REMOVE ALL<br>TING FIXTURES, SWITCHES & CONTROL DEVICES IN THE<br>S AS SHOWN.  |                   | ISSUED FC   | ription<br>DR REVIEW<br>DR TENDER | Date<br>FEB 18, 2025<br>MAR 13, 2025 |
| ONNECT ALL WIRING TO LIGHTING FIXTURES BEING<br>DLISHED BACK TO SOURCE,  |                   |   |                                   |                                      |
| CIRCUITS FOR RE-ALLOCATING TO NEW CIRCUITS IN THE<br>ED LIGHTING DESIGN.   |                   |   |                                   |                                      |
| TRICAL CONTRACTOR SHALL CAREFULLY REMOVE THE<br>TING LIGHTING FIXTURES WITHOUT DISTURBING THE<br>TING LIFE SAFETY DEVICES IN THE EXISTING CEILING. IF<br>STAKE EXISTING LIFE SAFETY DEVICES ARE DAMAGED,<br>CONTRACTOR TO REPLACE AND ALLOW FOR<br>FICATION OF THE SAME. |                   | CT  |                                   |                                      |
| ING LED LIGHTING FIXTURES IN CORRIDOR TO<br>IN.CONNECT TO THE NEW LIGHTING CONTROL SYSTEMS.<br>IDORS TO INSTALL DIMMING WITH EXISTING LED<br>RES AND CHANGE TEMPERATURE TO 4000K.  |                   | ROJEC   |                                   |                                      |
| TRICAL CONTRACTOR TO REMOVE EXISTING GYM<br>ENDED LIGHTS. REMOVE WIRING AND CONDUIT BACK TO<br>CE.   |                   | PRO   |                                   |                                      |
| TE SWITCHES AND PROVIDE AND INSTALL STAINLESS<br>_ COVER PLATES.   |                   | Z   |                                   |                                      |
| S AREA AS NOTED, REVISED TO THE EXISTING EXPOSED<br>NG WITH EXISTING BULKHEAD. REFER TO THE<br>ITECTURAL PLANS.  |                   | TIO   |                                   | RD                                   |
| RICAL CONTRACTOR TO REVISE EXISTING CLASSROOM<br>ROL PANEL (CCP) SWITCH PLATE TO SUIT NEW LIGHTING<br>ROL BUTTON STATION OR RENOVATIONS.   |                   | NA<br>VA  |                                   | L BOARD                              |
| S AREA AS NOTED, LIGHTING FIXTURES ARE TO BE<br>DNNECT AND REMOVED. MAINTAIN AND/OR REWORK<br>G FOR CONNECTION TO THE NEW LIGHTING FIXTURES AS<br>IRED FOR WASHROOM RENOVATIONS.<br>PATCHING AND PAINTING BY GC  |                   | RENOVATI  |                                   | SCHOOL                               |
| NG AND PATCHING OF THE DRYWALL BY THE GC IS<br>DED IN THE SCOPE OF WORK. GC TO CAREFULLY<br>INE ALL THE LIGHTING FLOOR PLAN TO ALLOW FOR<br>LETE CUTTING PATCHING AND PAINTING WORK. FOR THE<br>ING RETROFIT SCOPE .   |                   | Ц<br>С  |                                   | 7L 1V3<br>DISTRICT 3                 |
| RAL CONTRACTOR TO PATCH UP THE PAINT OF THE<br>S/STEEL) WHERE THE LIGHTING FIXTURE S REMOVED TO<br>H THE EXISTING COLOR.   |                   | Z   |                                   | , L7L<br>LC DI                       |
| REPLACING EXISTING (1X4) LIGHTING FIXTURES<br>SSED IN THE 'T' BAR CEILING WITH (2X4) NEW LIGHTING<br>RE, CONTRACTOR TO ALLOW FOR REMOVING PART OF<br>ROP CEILING GRID.   | PROJECT           | U)  | Street.                           | <b>n</b> ()                          |
|  |                   | N<br>U<br>U<br>N  | New                               | ON ON                                |
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|  |                   | International Action  | OFESSION 41 FB                    |                                      |
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|  |                   | EMOLITIO  |                                   |                                      |
|  |                   | EGAL CONSULT<br>CONSULTING MECHANIC<br>208 Wyecroft Road, Suit<br>PHONE | CAL & ELECTRICAL E                | ENGINEERS                            |
|  |                   |   | RUARY 20                          | )25                                  |
|  |                   | CALE :<br>RAWN BY:  | 1:100                             |                                      |
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|  | 2025 4:24:32      | NG STATUS :   |                                   |                                      |
|  | مر<br>عام 1025 د  | ROJECT No. :  |                                   |                                      |
|  | March 13, 3<br>PM | 20<br>RAWING No. :  | )25-476                           | REVISION                             |
|  | ž                 | E2.1  |                                   |                                      |



| LEGEND                    |                |
|---------------------------|----------------|
|                           | MAIN ENTRA     |
| $\bigtriangleup$          | SECONDARY      |
| К                         | KEY BOX        |
|                           | FIRE HOUSE     |
|                           | FIRE HOUSE     |
| Æ.                        | MN. ELECT.     |
| ELV.                      | ELEVATOR       |
|                           | FIRE ALARM     |
|                           | STAIRS         |
| E                         | FIRE EXTING    |
| $\otimes$                 | FIRE PROTE     |
| E                         | FIRE EXTING    |
|                           | FIRE ALARM     |
| 6                         | EMERGENCY      |
| ۵                         | AUTOMATIC      |
| ۲                         | PHOTOELEC      |
| €c                        | CARBON MC      |
| Ē                         | FLUSH WAL      |
|                           | FIRE ALARM     |
| )s(i                      | FIRE ALARM     |
| HO                        | DOOR HOLD      |
| NOTES :<br>1. TO BE DEMOL | ISHED WHEN SYM |

|   |   | <b></b> | Contractor chall works all all   | noione et                        |
|---|---|---------|--|----------------------------------|
| ENTRANCE  | DEMOLITION NOTES:<br>THE ELECTRICAL CONTRACTOR SHALL REMOVE AND<br>REPLACE ALL EXISTING FIRE ALARM HORNS WITH<br>NEW COMPLEXIENT OF HINTS | All p   | Contractor shall verify all dime<br>to commencement of the v<br>print and specifications are the<br>ne Architect and must be retur | vork.<br>property of<br>ned upon |
| DARY ENTRANCE                                       | NEW COMBINATION HORN/STROBE UNITS.  |         | completion of the work   |                                  |
| xc  | TWO (2) DAYS OF FIRE WATCH DURING THE REPLACEMENT PROCESS.  | เรรเ    | JE OR REVISION   |                                  |
| OUSE CABINET  | ALL NEW FIRE ALARM HORN/STROBE UNITS SHALL BE<br>CONNECTED TO THE EXISTING FIRE ALARM PANEL.  | No.     | Description  | Date                             |
| OUSE ANNUNCIATOR                                    | (4.) THE EXISTING FIRE ALARM PANEL, FIRE ALARM  | 1 2     | ISSUED FOR REVIEW<br>ISSUED FOR TENDER   | FEB 18, 2025<br>MAR 13, 2025     |
| LECT. PANEL   | ANNUNCIATOR, SMOKE DETECTORS, HEAT<br>DETECTORS, AND FIRE ALARM PULL STATIONS SHALL<br>REMAIN UNCHANGED.                                  |         |  |                                  |
| OR  | 5 THE CONTRACTOR SHALL PERFORM ALL NECESSARY  |         |  |                                  |
| LARM CONTROL PANEL                                  | TESTING AND VERIFICATION TO ENSURE PROPER<br>FUNCTIONALITY AND COMPLIANCE WITH APPLICABLE<br>CODES AND STANDARDS.                         |         |  |                                  |
|   | 6 EXISTING FIRE ALARM PANEL (EDWARDS).  |         |  |                                  |
|   | (7.) EXISTING FIRE ALARM ANNUNCIATOR (EDWARDS).   |         |  |                                  |
| ROTECTION CONTROL VALVES                            | GENERAL NOTES:  |         |  |                                  |
| XTINGUISHER CABINET                                 | 1. UPON COMPLETION AND APPROVAL OF THE NEW  |         |  |                                  |
| LARM PULL STATION                                   | FIRE ALARM HORN/STROBE INSTALLATION, ALL<br>ASSOCIATED WIRING AND CONDUIT SHALL REMAIN IN   |         |  |                                  |
| ENCY GAS SHUT-OFF                                   | PLACE.<br>2. ALL AFFECTED SURFACES SHALL BE REPAIRED AND  |         | <b>—</b>   |                                  |
| ATIC FIXED TEMPERATURE HEAT DETECTOR AT 157" F      | PAINTED TO MATCH THE EXISTING FINISH.   |         | C<br>C   |                                  |
| ELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE |   |         | ROJE   |                                  |
| N MONO-OXIDE DETECTOR                               |   |         |  |                                  |
| WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE    |   |         | $\bigcirc$   |                                  |
| LARM BELL   |   |         | $\tilde{\mathbf{c}}$   |                                  |
| ALARM STROBE  |   |         |  |                                  |
| HOLD OPEN DEVICE                                    |   |         |  |                                  |
| N SYMBOLS SHOWN DOTTED.                             |   |         | Z  |                                  |
|   |   |         | NOVATI   | OOL BOARD                        |

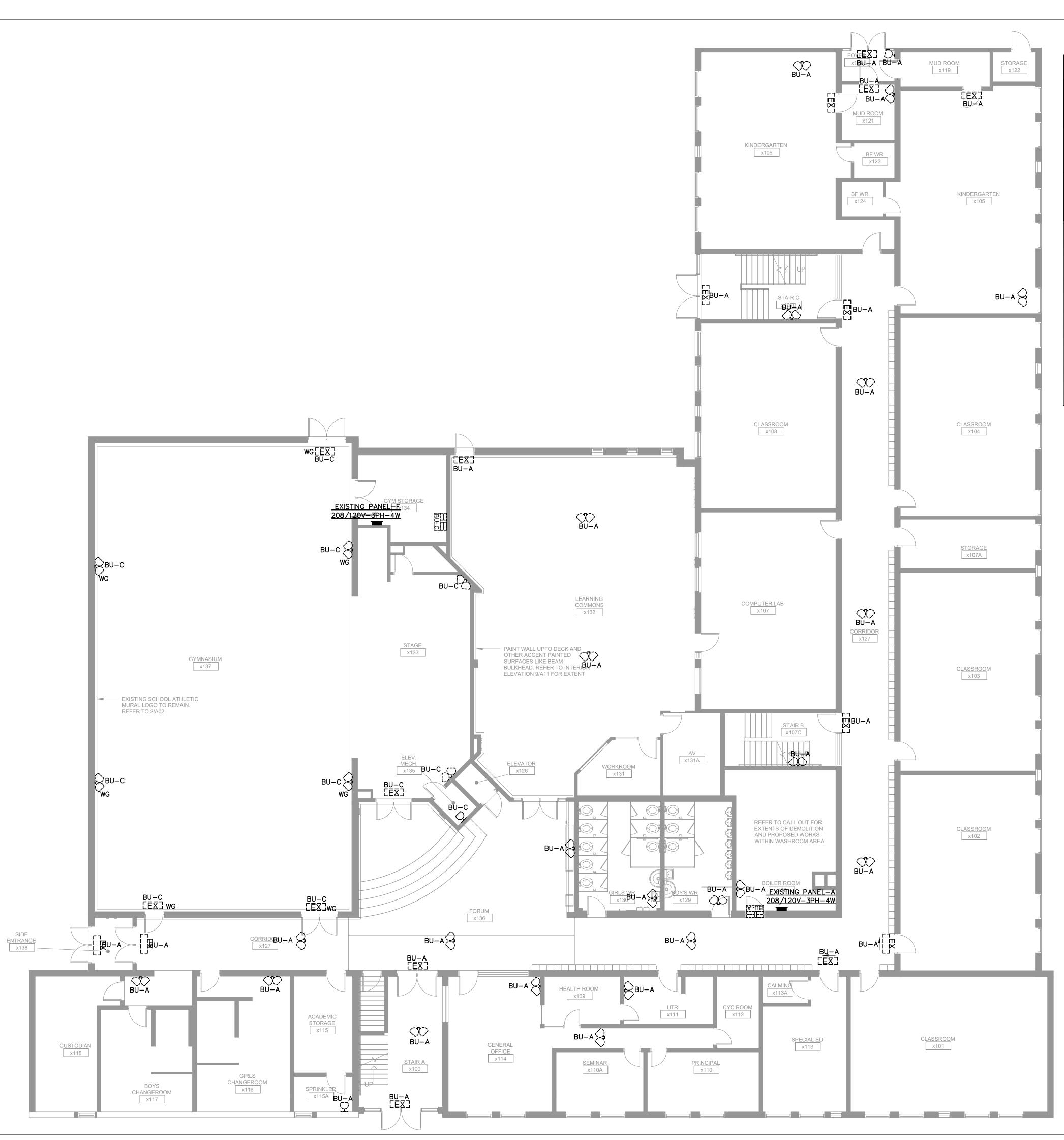
|                              | ASCENSION CES RENOVATIO | 5205 New Street.   | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
|------------------------------|-------------------------|--|---|
|                              | PROFESSIONAL            | SEAL :   |   |
|                              |                         | M.K. AHMED<br>100069234<br>13/03/2025<br>13/04/VCE OF OM/HO  |   |
|                              |                         | TION FIRE A<br>D FLOOR PL  |   |
|                              | CONSULTING N            | A Contraction of the second se | NGINEERS  |
|                              | date : F                | EBRUARY 20   | 25  |
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|                             | MAIN EN    |
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|                             | SECONDA    |
| K                           | KEY BOX    |
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| Æ.                          | MN. ELEC   |
| ELV.                        | ELEVATOR   |
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| ©                           | EMERGEN    |
| <b>\$</b>                   | AUTOMATI   |
| •                           | PHOTOEL    |
| €c                          | CARBON     |
| Ē                           | FLUSH W    |
|                             | FIRE ALA   |
| ) <u>s</u> H                | FIRE ALA   |
| HO                          | DOOR HO    |
| NOTES :<br>1. TO BE DEMOLIS | HED WHEN S |

| ENTRANCE   | DEMOLITION NOTES:<br>THE ELECTRICAL CONTRACTOR SHALL REMOVE AND<br>REPLACE ALL EXISTING FIRE ALARM HORNS WITH<br>NEW COMBINATION HORN/STROBE UNITS. |    | ne Contractor shall verify all dim<br>to commencement of the<br>Il print and specifications are th<br>the Architect and must be retu<br>completion of the wor | work.<br>e property of<br>rned upon |
|--|---|----|---|-------------------------------------|
| NDARY ENTRANCE                                       | THE CONTRACTOR SHALL PROVIDE A MINIMUM OF<br>TWO (2) DAYS OF FIRE WATCH DURING THE  |    |   |                                     |
| BOX  | REPLACEMENT PROCESS.  | IS | SUE OR REVISION   |                                     |
| HOUSE CABINET  | ALL NEW FIRE ALARM HORN/STROBE UNITS SHALL BE CONNECTED TO THE EXISTING FIRE ALARM PANEL.   | No | . Description   | Date                                |
| HOUSE ANNUNCIATOR                                    | THE EXISTING FIRE ALARM PANEL, FIRE ALARM<br>ANNUNCIATOR, SMOKE DETECTORS, HEAT   | 1  | ISSUED FOR REVIEW   | FEB 18, 2025<br>MAR 13, 2025        |
| ELECT. PANEL   | DETECTORS, AND FIRE ALARM PULL STATIONS SHALL<br>REMAIN UNCHANGED.  |    |   |                                     |
| TOR  | 5. THE CONTRACTOR SHALL PERFORM ALL NECESSARY   |    |   |                                     |
| ALARM CONTROL PANEL                                  | TESTING AND VERIFICATION TO ENSURE PROPER<br>FUNCTIONALITY AND COMPLIANCE WITH APPLICABLE<br>CORPORT AND OTHER PROPERTY.                            |    |   |                                     |
| S  | CODES AND STANDARDS.  |    |   |                                     |
| EXTINGUISHER   | T EXISTING FIRE ALARM ANNUNCIATOR ( EDWARDS).   |    |   |                                     |
| PROTECTION CONTROL VALVES                            |   |    |   |                                     |
| EXTINGUISHER CABINET                                 | GENERAL NOTES:<br>1. UPON COMPLETION AND APPROVAL OF THE NEW  |    |   |                                     |
| ALARM PULL STATION                                   | FIRE ALARM HORN/STROBE INSTALLATION, ALL<br>ASSOCIATED WIRING AND CONDUIT SHALL REMAIN IN   |    |   |                                     |
| GENCY GAS SHUT-OFF                                   | PLACE.<br>2. ALL AFFECTED SURFACES SHALL BE REPAIRED AND  |    | 1   |                                     |
| MATIC FIXED TEMPERATURE HEAT DETECTOR AT 157" F      | PAINTED TO MATCH THE EXISTING FINISH.   |    |   |                                     |
| DELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE |   |    | O   |                                     |
| ON MONO-OXIDE DETECTOR                               |   |    | OJE   |                                     |
| H WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE   |   |    |   |                                     |
| ALARM BELL   |   |    | $\bigcirc$  |                                     |
| ALARM STROBE   |   |    | Ř   |                                     |
| HOLD OPEN DEVICE                                     |   |    |   |                                     |
| EN SYMBOLS SHOWN DOTTED.                             |   |    | Z   |                                     |

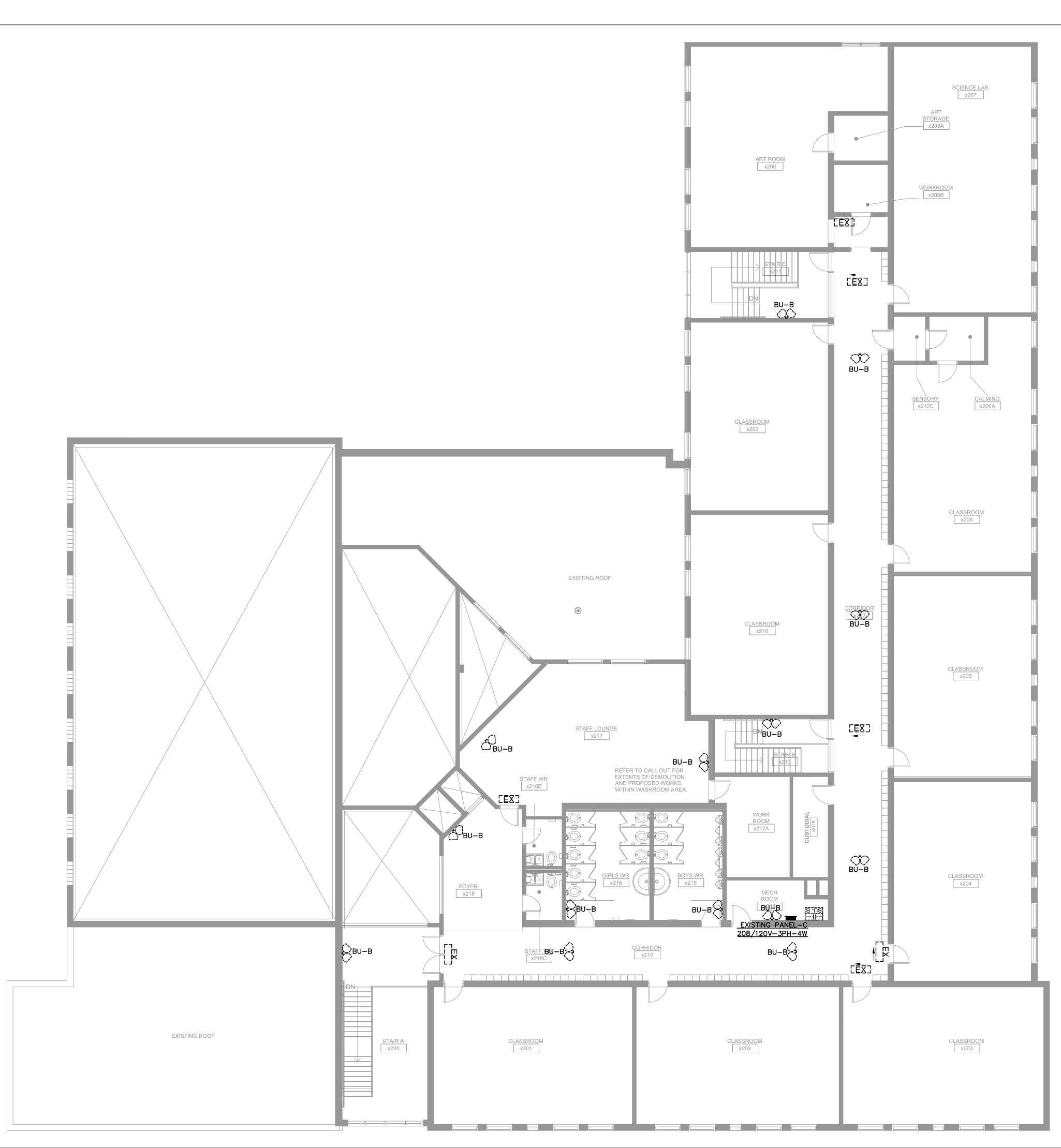
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| ROPERSIONAL SEAL:<br>PROFESSIONAL SEAL:<br>PROFESS |           |                  |   |   |   |
| <image/> DWG TITLE :   DEMODITION FIRE   DEMODITION FIRE   ALARNSECOND   LOOR PLAN <b>DESCRED DESCRED DESCRED DESCRED DESCRED DESCRED DESCRED EBRUARY 2025</b> SCALE : <b>EBRUARY 2025</b> SCALE : <b>EBRUARY 2025</b> SCALE : <b>EI: EBRUARY 2025 MA</b> DWG STATUS : <b>TENDER PROJECT NO.</b> : <b>DESCRED DESCET NO.</b> : <b>DESCRED DESCRED DESC</b>   | PROJECT : | TION PROJ        |   | 5205 New Street.  | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
| DEMOLITION FIRE<br>ALARM SECOND<br>FLOOR PLAN  | PRO       | ESSIONA          | MK.AF   | MED   |   |
| REGAL CONSULTING ENGINEERS INC<br>CONSULTING MECHANICAL & ELECTRICAL ENGINEERS<br>208 Wyecroft Road, Suite 200, Oakville, Ontario L&K 3S3<br>PHONE: (905)844-3913<br>www.regal-eng.com<br>DATE : FEBRUARY 2025<br>SCALE : 1:100<br>DRAWN BY: AS<br>CHECKED BY : MA<br>DWG STATUS :<br>TENDER<br>PROJECT No. :<br>2025-476  | DE<br>AL  | EMOI<br>ARN      | 1 SEC   | OND   | Ξ   |
| FEBRUARY 2025         SCALE :       1:100         DRAWN BY:       AS         CHECKED BY :       MA         DWG STATUS :       TENDER         PROJECT No. :       2025-476  | C         | ONSULTING        | NSULTIN<br>MECHANICAL &<br>Road, Suite 200<br>PHONE: (905 | G ENGINE<br>B ELECTRICAL E<br>0, Oakville, Ontari<br>0)844–3913 | INGINEERS   |
| 1:100         DRAWN BY:       AS         CHECKED BY:       MA         DWG STATUS:       TENDER         PROJECT No.:       2025-476   | DATE      | <sup>≞ :</sup> F | EBRU  | ARY 20  | 25  |
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| DWG STATUS :<br>TENDER<br>PROJECT No. :<br>2025-476  |           |                  |   |   |   |
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| LEGEND  |                            |
|---------|----------------------------|
| EX.     | EXIT SIGN                  |
| ΦΦ      | EMERGENCY LIGHTING FIXTURE |
| H<br>BU | BATTERY UNIT               |
| NOTES:  |                            |

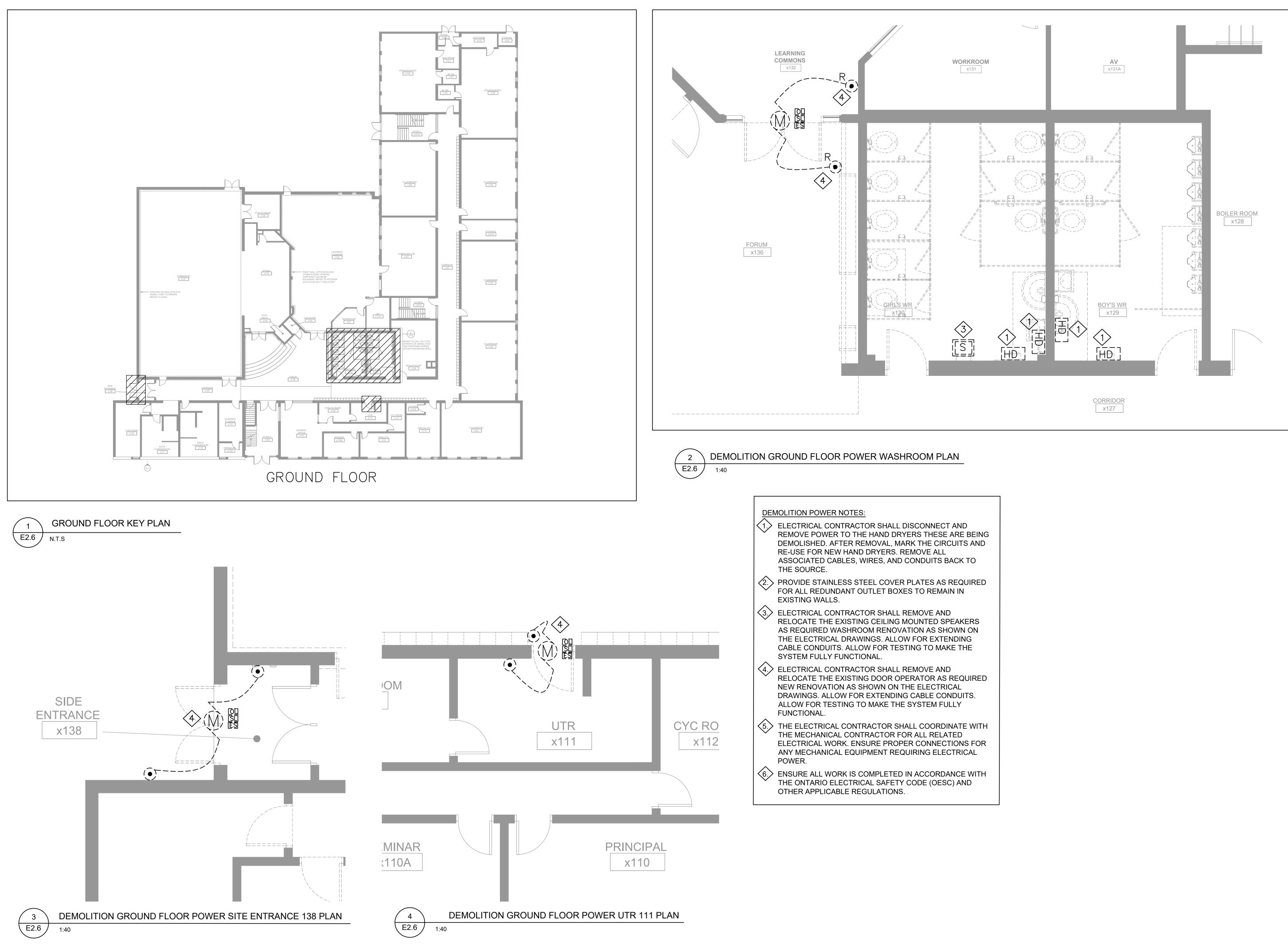
- THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING EMERGENCY LIGHTING FIXTURES, EXIT SIGNS, AND BATTERY UNITS AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL MARK CIRCUITS AND CONNECT THE NEW BATTERY UNITS AS APPROPRIATE.
- 2. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING WIRING, CONDUITS, AND ACCESSORIES ASSOCIATED WITH THE EMERGENCY LIGHTING, EXIT SIGNS, AND BATTERY UNITS. ALL REMOVED COMPONENTS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- 3. THE CONTRACTOR SHALL ENSURE THAT SURROUNDING AREAS, INCLUDING WALLS, CEILINGS, AND FLOORS, ARE PROTECTED DURING THE DEMOLITION PROCESS TO PREVENT DAMAGE TO EXISTING STRUCTURES AND FINISHES.

|  | Date<br>FEB 18, 2025<br>MAR 13, 2025                                  |  |  |  |  |
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| L L L L L L L L L L L L L L L L L L L  | SCHOOL BOARD  |  |  |  |  |
| ASCENSION CI   | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |  |  |  |  |
| PROFESSIONAL SEAL :  | PROFESSIONAL SEAL :   |  |  |  |  |
| DWG TITLE :<br>DEMOLITION EXISTING<br>EMERGENCY LIGHTING<br>& EXIT SIGNS GROUND<br>FLOOR PLAN  |   |  |  |  |  |
| CONSULTING MECHANICAL & ELECTRICAL           208 Wyecroft Road, Suite 200, Oakville, Onta           PHONE: (905)844-3913           www.regal-eng.com | ENGINEERS   |  |  |  |  |
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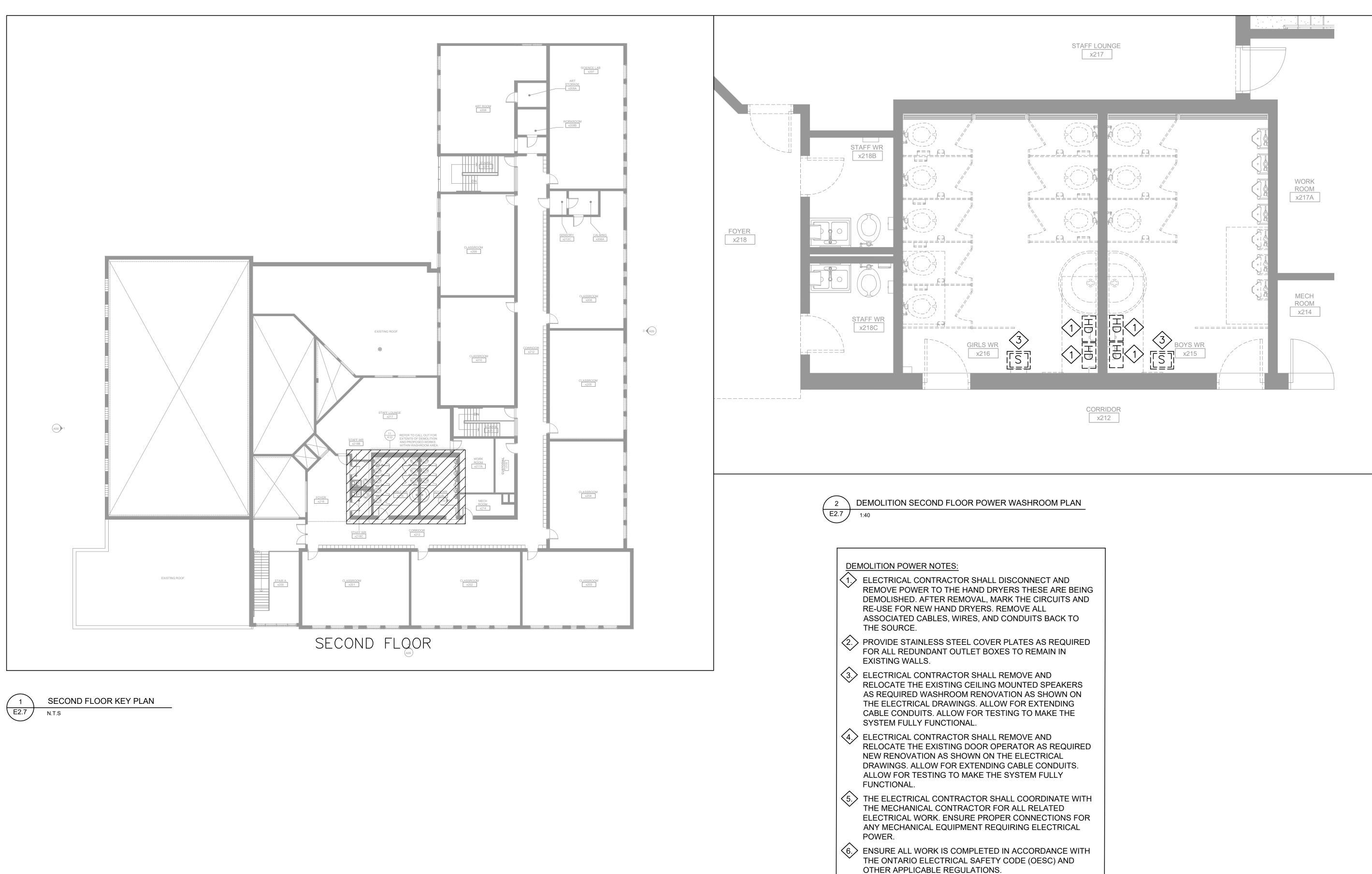


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| Ē               | X   | EXIT SIGN  |  |  |  |
| Ý               | $\Delta $   | EMERGENCY LIGHTING FIXTURE   |  |  |  |
| ⊢<br>Bl         | <u>⊢</u><br>J   | BATTERY UNIT   |  |  |  |
| NOT             | ES:   |  |  |  |  |
| EM<br>AS<br>CIF | IERGEN<br>INDICA  | TRICAL CONTRACTOR SHALL REMOVE ALL EXISTING<br>CY LIGHTING FIXTURES, EXIT SIGNS, AND BATTERY UNITS<br>TED ON THE DRAWINGS. THE CONTRACTOR SHALL MARK<br>AND CONNECT THE NEW BATTERY UNITS AS<br>ATE. |  |  |  |
| WI<br>EM<br>RE  | THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING<br>WIRING, CONDUITS, AND ACCESSORIES ASSOCIATED WITH THE<br>EMERGENCY LIGHTING, EXIT SIGNS, AND BATTERY UNITS. ALL<br>REMOVED COMPONENTS SHALL BE PROPERLY DISPOSED OF IN<br>ACCORDANCE WITH LOCAL REGULATIONS. |  |  |  |  |
| INC<br>DU       | CLUDING<br>RING TH  | RACTOR SHALL ENSURE THAT SURROUNDING AREAS,<br>WALLS, CEILINGS, AND FLOORS, ARE PROTECTED<br>HE DEMOLITION PROCESS TO PREVENT DAMAGE TO<br>STRUCTURES AND FINISHES.                                  |  |  |  |

| t               | print and spea<br>he Architect a           | encement of the<br>cifications are the<br>nd must be ret<br>letion of the wo   | he pr<br>urne    | operty of   |
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| PROJECT :       | ASCENSION CES RENOVATION PROJECT           |  | 5205 New Street, | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
| PRO             | -ESSIONAL SEA                              | SPROFESSIONAL<br>M.K. AHMED<br>100069234<br>13/03/2025<br>00/WCE OF OMMIN      |                  |   |
| DE<br>EM<br>& E | ERGEN                                      | ON EXIST<br>CY LIGHT<br>NS SECC<br>AN  | ΓIN              | GS  |
| CC              | DNSULTING MECH<br>208 Wyecroft Road,<br>PH | LTING ENG<br>Suite 200, Oakville, C<br>ONE: (905)844-3913<br>rww.regal-eng.com | CAL E            | NGINEERS  |
| DATE            | E FEI                                      | BRUARY   | 20               | 25  |
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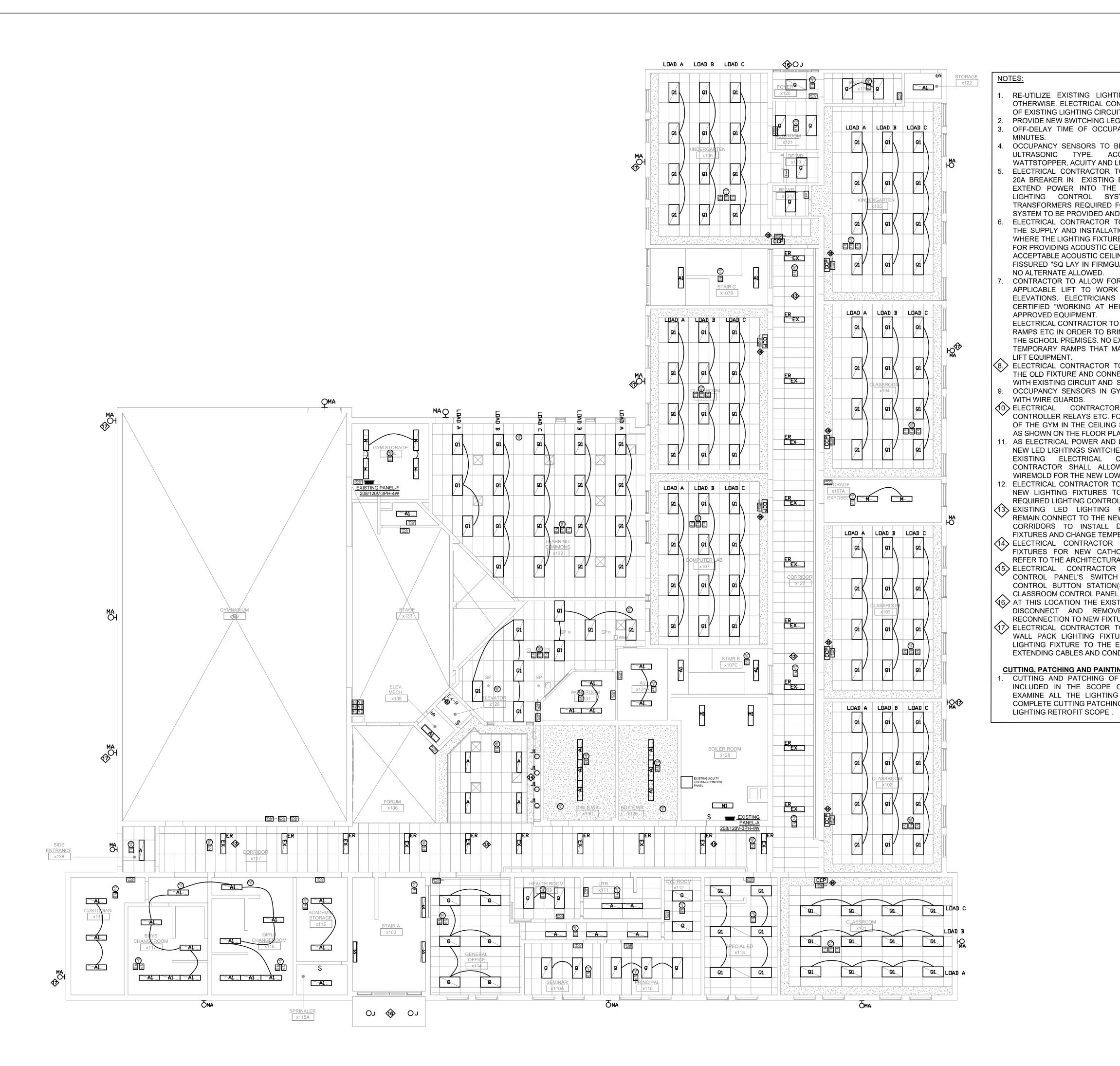


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|                              | ASCENSION CES RENOVATION PROJECT         |   | 5205 New Street,       | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |  |
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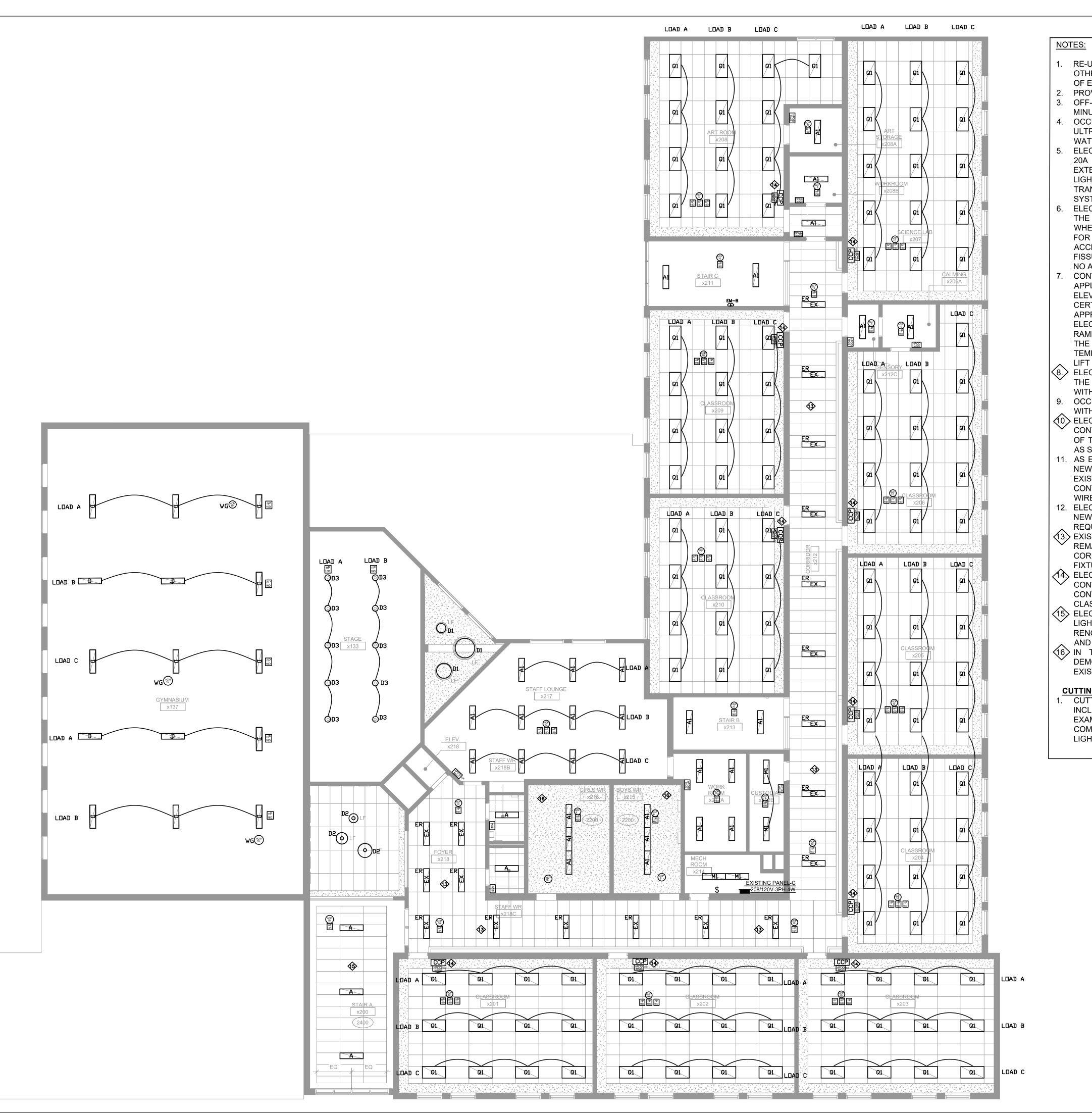


|                              | <ul> <li>The Contractor shall verify all dimensions prior<br/>to commencement of the work.</li> <li>All print and specifications are the property of<br/>the Architect and must be returned upon<br/>completion of the work.</li> </ul> |                                  |  |                    |   |
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|                              | ISS<br>No.<br>1<br>2  | ISS                              | REVISION<br>Description<br>UED FOR REVIEW<br>UED FOR TENDER  |                    | Date<br>FEB 18, 2025<br>MAR 13, 2025                                  |
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|                              | PROJECT :   | ASCENSION CES RENOVATION PROJECT |  | 5205 New Street,   | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
|                              | PROF  | FESSIONAL                        | SEAL :   |                    |   |
|                              |   |                                  | M.K.AHMED<br>100069234<br>13/03/2025<br>0000000000000000000000000000000000   |                    |   |
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|                              | C   | ONSULTING N                      | A CARACTER STATE OF THE STATE O | NCAL El<br>Ontario | NGINEERS  |
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|   |  | d must be returned upon<br>tion of the work.   |
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|   |  | ISION<br>cription Date   |
| IG CIRCUITS UNLESS NOTED<br>TRACTOR TO VERIFY CAPACITY<br>PRIOR TO INSTALLATION.<br>S AS INDICATED.<br>NCY SENSORS TO BE THIRTY   | 1 ISSUED F   | OR REVIEW FEB 18, 2025<br>OR TENDER MAR 13, 2025   |
| DUAL TECHNOLOGY PIR AND<br>EPTABLE MANUFACTURER'S<br>ITRON.   |  |  |
| PROVIDE AND INSTALL NEW<br>LECTRICAL PANEL AS SHOWN.<br>CEILING SPACE FOR DIGITAL<br>EM. ALL LOW VOLTAGE<br>OR DIGITAL LIGHTING CONTROL<br>NSTALLED.                      |  |  |
| CO-ORDINATE WITH GC FOR<br>IN OF CEILING TILES IN PLACE<br>S ARE REMOVED. GC TO ALLOW<br>ING TILES AS REQUIRED.<br>G TILE IS ARMSTRONG FINE<br>RD HUMIGUARD PLUS BP 1830" | OJEC<br>OJEC   |  |
| SCISSOR LIFT OR ANY OTHER<br>AT THE FIXTURE AT HIGHER<br>VORKING AT HEIGHT TO BE<br>HTS" AND TO HAVE ALL THE  | N PR   |  |
| LLOW FOR BUILDING OF<br>G THE POWER LIFT ETC INSIDE<br>IRA WILL BE ENTERTAINED FOR<br>/ REQUIRED TO BRING HEAVY   |  | BOARD  |
| ALLOW FOR DISCONNECTING<br>CT THE NEW LIGHTING FIXTURE<br>VITCH.<br>1 AND WORKSHOPS TO COME   | RENOVAT  |  |
| TO INSTALL LIGHTING<br>R THE NEW LIGHTING FIXTURES<br>PACE OF THE STORAGE ROOM<br>N.  |  | SCHOOL   |
| OW VOLTAGE CABLE FOR THE<br>S CANNOT BE RUN IN THE SAME<br>ONDUIT, THE ELECTRICAL<br>TO PROVIDE AND INSTALL<br>VOLTAGE SWITCHES.<br>ALLOW FOR CONNECTING THE              | CES  | 7L 1V3<br>DISTRICT   |
| EXISTING CIRCUIT WITH ALL<br>ER RELAYS ETS.<br>XTURES IN CORRIDOR TO<br>LIGHTING CONTROL SYSTEMS.<br>MMING WITH EXISTING LED  | <b>D</b><br>ECT :  | ,<br>io, L<br>JLIC   |
| RATURE TO 4000K.<br>O PROVIDE NEW LIGHTING<br>IC DISPLAY FEATURE WALL.<br>DETAILS.<br>TO PROVIDE CLASSROOM  |  | New Street,<br>gton, Ontario,<br>ON CATHOLI0   |
| PLATE TO SUIT LIGHTING<br>) AND AND OTHER EXISTING<br>DEVICES.<br>NG CANOPY FIXTURE IS TO BE<br>D. MAINTAIN CIRCUIT FOR   | ASCE   | 5205 New<br>Burlington,<br>HALTON C  |
| RE.<br>PROVIDE AND INSTALL NEW<br>RE AS SHOWN.CONNECT NEW<br>(ISTING CIRCUITS. ALLOW FOR<br>UITS.   | PROFESSIONAL SEAL  |  |
| <b><u>B BY GC</u></b><br>THE DRYWALL BY THE GC IS<br>WORK. GC TO CAREFULLY<br>FLOOR PLAN TO ALLOW FOR   | THE  | ROFESSIONAL STA<br>M.K. AHMED<br>100069234<br>13/03/2025   |
| AND PAINTING WORK. FOR THE  |  |  |
|   |  | RETROFIT<br>FLOOR PLAN   |
|   | REGAL CONSUL<br>CONSULTING MECHAN<br>208 Wyecroft Road, Su<br>PHON | TING ENGINEERS INC.<br>ICAL & ELECTRICAL ENGINEERS<br>Inte 200, Oakville, Ontario L6K 3S3<br>IE: (905)844–3913<br>vregal-eng.com |
|   |  | RUARY 2025   |
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The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of



| 1. | RE-UTILIZE EXISTING LIGHTING CIRCUITS UNLESS NOTED  |
|----|---|
|    | OTHERWISE. ELECTRICAL CONTRACTOR TO VERIFY CAPACITY |
|    | OF EXISTING LIGHTING CIRCUIT PRIOR TO INSTALLATION. |
| 2. | PROVIDE NEW SWITCHING LEGS AS INDICATED.            |
| ~  | OFF DELANT TIME OF OCOUPANION OFNOODO TO DE TUIDTY  |

3. OFF-DELAY TIME OF OCCUPANCY SENSORS TO BE THIRTY MINUTES.

4. OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY PIR AND ULTRASONIC TYPE. ACCEPTABLE MANUFACTURER'S WATTSTOPPER, ACUITY AND LUTRON

5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW 20A BREAKER IN EXISTING ELECTRICAL PANEL AS SHOWN. EXTEND POWER INTO THE CEILING SPACE FOR DIGITAL LIGHTING CONTROL SYSTEM. ALL LOW VOLTAGE TRANSFORMERS REQUIRED FOR DIGITAL LIGHTING CONTROL SYSTEM TO BE PROVIDED AND INSTALLED.

ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH GC FOR THE SUPPLY AND INSTALLATION OF CEILING TILES IN PLACE WHERE THE LIGHTING FIXTURES ARE REMOVED. GC TO ALLOW FOR PROVIDING ACOUSTIC CEILING TILES AS REQUIRED.

ACCEPTABLE ACOUSTIC CEILING TILE IS ARMSTRONG FINE FISSURED "SQ LAY IN FIRMGUARD HUMIGUARD PLUS BP 1830" NO ALTERNATE ALLOWED.

CONTRACTOR TO ALLOW FOR SCISSOR LIFT OR ANY OTHER APPLICABLE LIFT TO WORK AT THE FIXTURE AT HIGHER ELEVATIONS. ELECTRICIANS WORKING AT HEIGHT TO BE CERTIFIED "WORKING AT HEIGHTS" AND TO HAVE ALL THE APPROVED EQUIPMENT.

ELECTRICAL CONTRACTOR TO ALLOW FOR BUILDING OF

RAMPS ETC IN ORDER TO BRING THE POWER LIFT ETC INSIDE THE SCHOOL PREMISES. NO EXTRA WILL BE ENTERTAINED FOR TEMPORARY RAMPS THAT MAY REQUIRED TO BRING HEAVY LIFT EQUIPMENT.

(8.) ELECTRICAL CONTRACTOR TO ALLOW FOR DISCONNECTING THE OLD FIXTURE AND CONNECT THE NEW LIGHTING FIXTURE WITH EXISTING CIRCUIT AND SWITCH.

9. OCCUPANCY SENSORS IN GYM AND WORKSHOPS TO COME WITH WIRE GUARDS.

 ELECTRICAL CONTRACTOR TO INSTALL LIGHTING CONTROLLER RELAYS ETC. FOR THE NEW LIGHTING FIXTURES OF THE GYM IN THE CEILING SPACE OF THE STORAGE ROOM AS SHOWN ON THE FLOOR PLAN.

11. AS ELECTRICAL POWER AND LOW VOLTAGE CABLE FOR THE NEW LED LIGHTINGS SWITCHES CANNOT BE RUN IN THE SAME EXISTING ELECTRICAL CONDUIT, THE ELECTRICAL CONTRACTOR SHALL ALLOW TO PROVIDE AND INSTALL WIREMOLD FOR THE NEW LOW VOLTAGE SWITCHES.

12. ELECTRICAL CONTRACTOR TO ALLOW FOR CONNECTING THE NEW LIGHTING FIXTURES TO EXISTING CIRCUIT WITH ALL REQUIRED LIGHTING CONTROLLER RELAYS ETS.

13. EXISTING LED LIGHTING FIXTURES IN CORRIDOR TO REMAIN.CONNECT TO THE NEW LIGHTING CONTROL SYSTEMS. CORRIDORS TO INSTALL DIMMING WITH EXISTING LED FIXTURES AND CHANGE TEMPERATURE TO 4000K.

 ELECTRICAL CONTRACTOR TO PROVIDE CLASSROOM CONTROL PANEL'S SWITCH PLATE TO SUIT LIGHTING CONTROL BUTTON STATION(S) AND AND OTHER EXISTING CLASSROOM CONTROL PANEL DEVICES.

 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW LIGHTING FIXTURE AS REQUIRED NEW LAP CEILING RENOVATION AT STAIR A.CONNECT TO THE EXISTING CIRCUITS AND ALLOW EXTENDING CABLE AND CONDUITS.

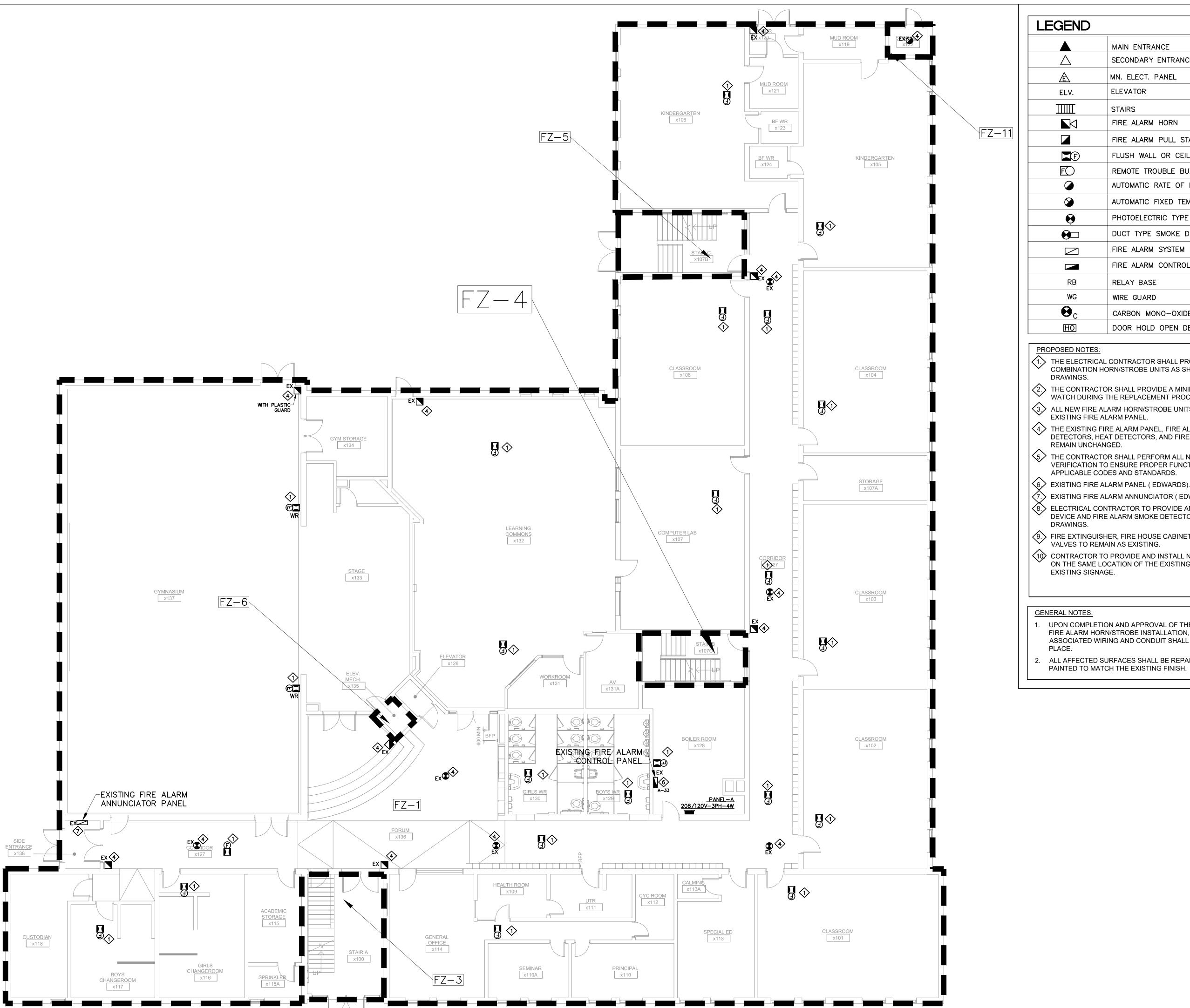
(16) IN THIS AREA AS NOTED, EXISTING BULKHEAD TO BE DEMOLISHED. THE NEW GYPSUM CEILING TO MATCH THE EXISTING BULKHEAD HIGHT AND DEMOLISH THE BULKHEAD.

### CUTTING, PATCHING AND PAINTING BY GC

CUTTING AND PATCHING OF THE DRYWALL BY THE GC IS INCLUDED IN THE SCOPE OF WORK. GC TO CAREFULLY EXAMINE ALL THE LIGHTING FLOOR PLAN TO ALLOW FOR COMPLETE CUTTING PATCHING AND PAINTING WORK. FOR THE LIGHTING RETROFIT SCOPE.

|                              | sions prior<br>ork.<br>property of<br>ed upon |  |   |
|------------------------------|---|--|---|
|                              | No.<br>1                                      | R REVISION Description ISSUED FOR REVIEW ISSUED FOR TENDER | Date<br>FEB 18, 2025<br>MAR 13, 2025                                  |
|                              |   |  |   |
|                              | ASCENSION CES RENOVATION PROJECT              |  | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |
|                              | PROFESSION                                    | JAL SEAL :   |   |
|                              | LIGHT   | OSED LED<br>ING RETRO<br>ND FLOOR F                        |   |
|                              | CONSULTIN                                     | CARCELES AND           | ENGINEERS   |
|                              | DATE :<br>SCALE :<br>DRAWN BY:                | FEBRUARY 20<br>1:100<br>AS                                 | 025   |
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|---|---|--|--|--|--|
|   | MAIN ENTRANCE   |  |  |  |  |
|   | SECONDARY ENTRANCE  |  |  |  |  |
|   | MN. ELECT. PANEL  |  |  |  |  |
|   | ELEVATOR  |  |  |  |  |
|   | STAIRS  |  |  |  |  |
|   | FIRE ALARM HORN   |  |  |  |  |
|   | FIRE ALARM PULL STATION C/W LEXAN COVER & WITH A BATTERY BUZZER   |  |  |  |  |
|   | FLUSH WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE  |  |  |  |  |
|   | REMOTE TROUBLE BUZZER C/W VISUAL SIGNAL   |  |  |  |  |
|   | AUTOMATIC RATE OF RISE HEAT DETECTOR AT 135" F  |  |  |  |  |
|   | AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR AT 157" F   |  |  |  |  |
|   | PHOTOELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE  |  |  |  |  |
|   | DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATOR  |  |  |  |  |
|   | FIRE ALARM SYSTEM REMOTE ANNUNCIATOR  |  |  |  |  |
|   | FIRE ALARM CONTROL PANEL  |  |  |  |  |
|   | RELAY BASE  |  |  |  |  |
|   | WIRE GUARD  |  |  |  |  |
|   | CARBON MONO-OXIDE DETECTOR  |  |  |  |  |
|   | DOOR HOLD OPEN DEVICE   |  |  |  |  |
|   |   |  |  |  |  |
|   | CONTRACTOR SHALL PROVIDE AND INSTALL NEW<br>DRN/STROBE UNITS AS SHOWN ON THE ELECTRICAL                   |  |  |  |  |
|   | R SHALL PROVIDE A MINIMUM OF TWO (2) DAYS OF FIRE<br>THE REPLACEMENT PROCESS.                             |  |  |  |  |
|   | ARM HORN/STROBE UNITS SHALL BE CONNECTED TO THE<br>ARM PANEL.   |  |  |  |  |
|   | RE ALARM PANEL, FIRE ALARM ANNUNCIATOR, SMOKE<br>AT DETECTORS, AND FIRE ALARM PULL STATIONS SHALL<br>GED. |  |  |  |  |

5 THE CONTRACTOR SHALL PERFORM ALL NECESSARY TESTING AND VERIFICATION TO ENSURE PROPER FUNCTIONALITY AND COMPLIANCE WITH APPLICABLE CODES AND STANDARDS.

 $\langle 7. \rangle$  EXISTING FIRE ALARM ANNUNCIATOR (EDWARDS).

8. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW DOOR HOLD OPEN DEVICE AND FIRE ALARM SMOKE DETECTORS AS SHOWN ON THE ELECTRICAL

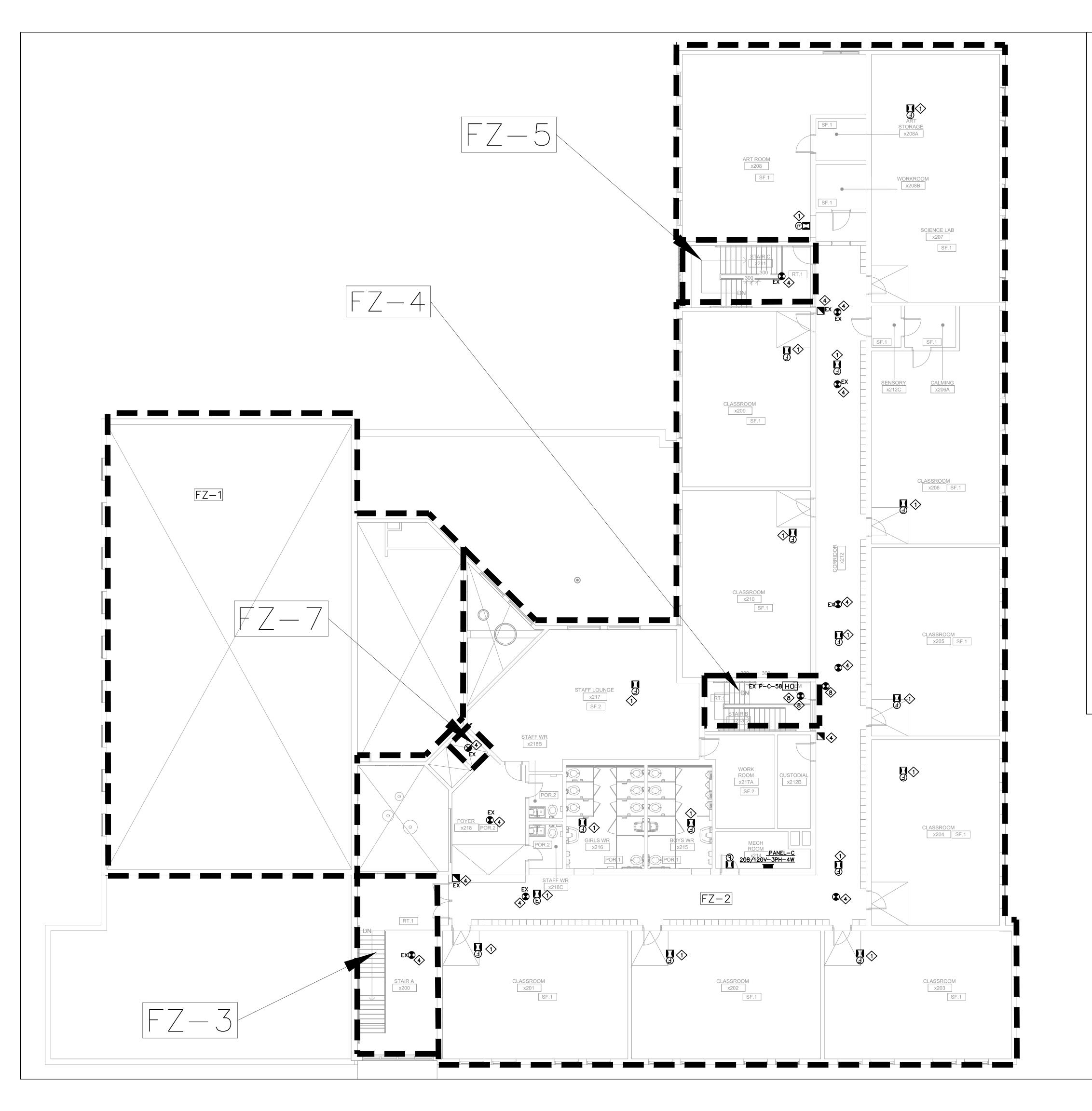
9. FIRE EXTINGUISHER, FIRE HOUSE CABINET AND FIRE PROTECTION CONTROL VALVES TO REMAIN AS EXISTING.

CONTRACTOR TO PROVIDE AND INSTALL NEW LAMACOID SIGNAGE (48" X 6") ON THE SAME LOCATION OF THE EXISTING. MATCH THE COLOR SCHEME OF

1. UPON COMPLETION AND APPROVAL OF THE NEW FIRE ALARM HORN/STROBE INSTALLATION, ALL ASSOCIATED WIRING AND CONDUIT SHALL REMAIN IN

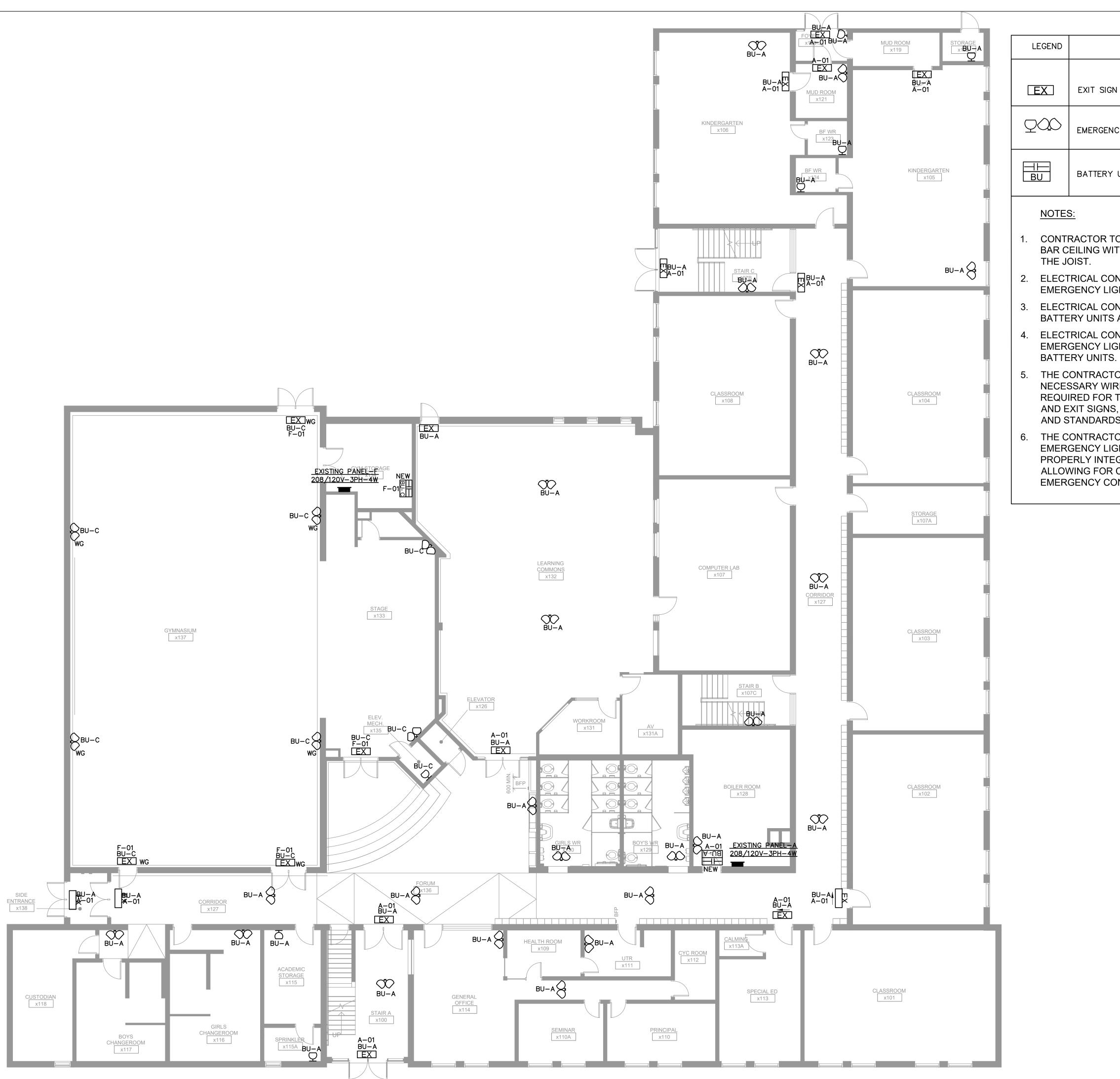
2. ALL AFFECTED SURFACES SHALL BE REPAIRED AND PAINTED TO MATCH THE EXISTING FINISH.

| ECHE CONCURSION ON CERSION OF THE PROPERTIES OF THE PROPERTIE                  | I SSUED FOR TENDE   | R  | ington, Ontario, L7L 1V3<br>TON CATHOLIC DISTRICT SCHOOL BOARD |
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| DALION CATHOLIC DISTRICT SCHOOL BOARD<br>SCUE CONSULTING ENCINESIS<br>DALE :<br>DALE :<br>DALE :<br>DALE :<br>DESCRIPTION CATHOLIC DISTRICT SCHOOL DISTRIC | PROFESSIONAL SEAL:  | 3205 New Street.                             | ington, Ontario, L7L 1V3<br>TON CATHOLIC DISTRICT SCHOOL BOARD |
| <image/> <image/> <image/> <image/> <section-header></section-header>  | M.K.AHMED<br>100069234<br>13/03/2025<br>13/03/2025  | <u>ر</u> )                                   | Burl<br>HAL  |
| FIRST FLOOR PLAN   |   |  |  |
| REGAL CONSULTING ENGINEERS INC.         REGAL CONSULTING MECHANICAL & ELECTRICAL ENGINEERS         208 Wyecroft Road, Suite 200, Oakville, Ontario L6K 3S3         PHONE: (905)844-3913         www.regal-eng.com         DATE :       FEBRUARY 2025         SCALE :       1:100         DRAWN BY:       AS         CHECKED BY :       MA  |   |  |  |
| SCALE :         1:100           DRAWN BY:         AS           CHECKED BY :         MA   | REGAL CONSULTING ELE<br>CONSULTING MECHANICAL & ELE<br>208 Wyecroft Road, Suite 200, Oak<br>PHONE: (905)844-3 | NGINE<br>CTRICAL E<br>ville, Ontario<br>3913 | INGINEERS  |
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|  | MAIN ENTRANCE   |  |  |  |
| $\bigtriangleup$   | SECONDARY ENTRANCE  |  |  |  |
| MN. ELECT. PANEL   |   |  |  |  |
| ELV. ELEVATOR  |   |  |  |  |
|  | STAIRS  |  |  |  |
|  | FIRE ALARM HORN   |  |  |  |
|  | FIRE ALARM PULL STATION C/W LEXAN COVER & WITH A BATTERY BUZZER   |  |  |  |
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| FO   | REMOTE TROUBLE BUZZER C/W VISUAL SIGNAL   |  |  |  |
|  | AUTOMATIC RATE OF RISE HEAT DETECTOR AT 135" F  |  |  |  |
|  | AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR AT 157 F  |  |  |  |
| •  | PHOTOELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE  |  |  |  |
| , etc.   | DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATOR  |  |  |  |
|  | FIRE ALARM SYSTEM REMOTE ANNUNCIATOR  |  |  |  |
|  | FIRE ALARM CONTROL PANEL  |  |  |  |
| RB   | RELAY BASE  |  |  |  |
| WG   | WIRE GUARD  |  |  |  |
| Θc   | CARBON MONO-OXIDE DETECTOR  |  |  |  |
|  | DOOR HOLD OPEN DEVICE   |  |  |  |
| <ul> <li>WATCH DURING T</li> <li>ALL NEW FIRE ALL<br/>EXISTING FIRE ALL<br/>EXISTING FIRE ALL</li> <li>THE EXISTING FIRE ALL</li> <li>THE CONTRACTOON<br/>VERIFICATION TOON<br/>APPLICABLE CODING</li> <li>EXISTING FIRE ALL</li> <li>EXISTING FIRE ALL</li> <li>ELECTRICAL CONN<br/>DEVICE AND FIRE<br/>DRAWINGS.</li> <li>FIRE EXTINGUISH<br/>VALVES TO REMAN</li> <li>CONTRACTOR TOON<br/>ON THE SAME LOON</li> </ul> | RE ALARM PANEL, FIRE ALARM ANNUNCIATOR, SMOKE<br>AT DETECTORS, AND FIRE ALARM PULL STATIONS SHALL<br>GED.<br>R SHALL PERFORM ALL NECESSARY TESTING AND<br>ENSURE PROPER FUNCTIONALITY AND COMPLIANCE WITH<br>ES AND STANDARDS.<br>ARM PANEL (EDWARDS).<br>ARM ANNUNCIATOR (EDWARDS).<br>TRACTOR TO PROVIDE AND INSTALL NEW DOOR HOLD OPEN<br>ALARM SMOKE DETECTORS AS SHOWN ON THE ELECTRICAL<br>ER, FIRE HOUSE CABINET AND FIRE PROTECTION CONTROL<br>ANN AS EXISTING. |  |  |  |
| EXISTING SIGNAG  | ·E.   |  |  |  |

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EMERGENCY LIGHTING FIXTURE

BATTERY UNIT

1. CONTRACTOR TO INSTALL THE NEW EXISTING SIGNS IN THE T BAR CEILING WITH T BAR HANGER AND CHAIN SUPPORT FROM

2. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW EMERGENCY LIGHTINGS AS SHOWN.

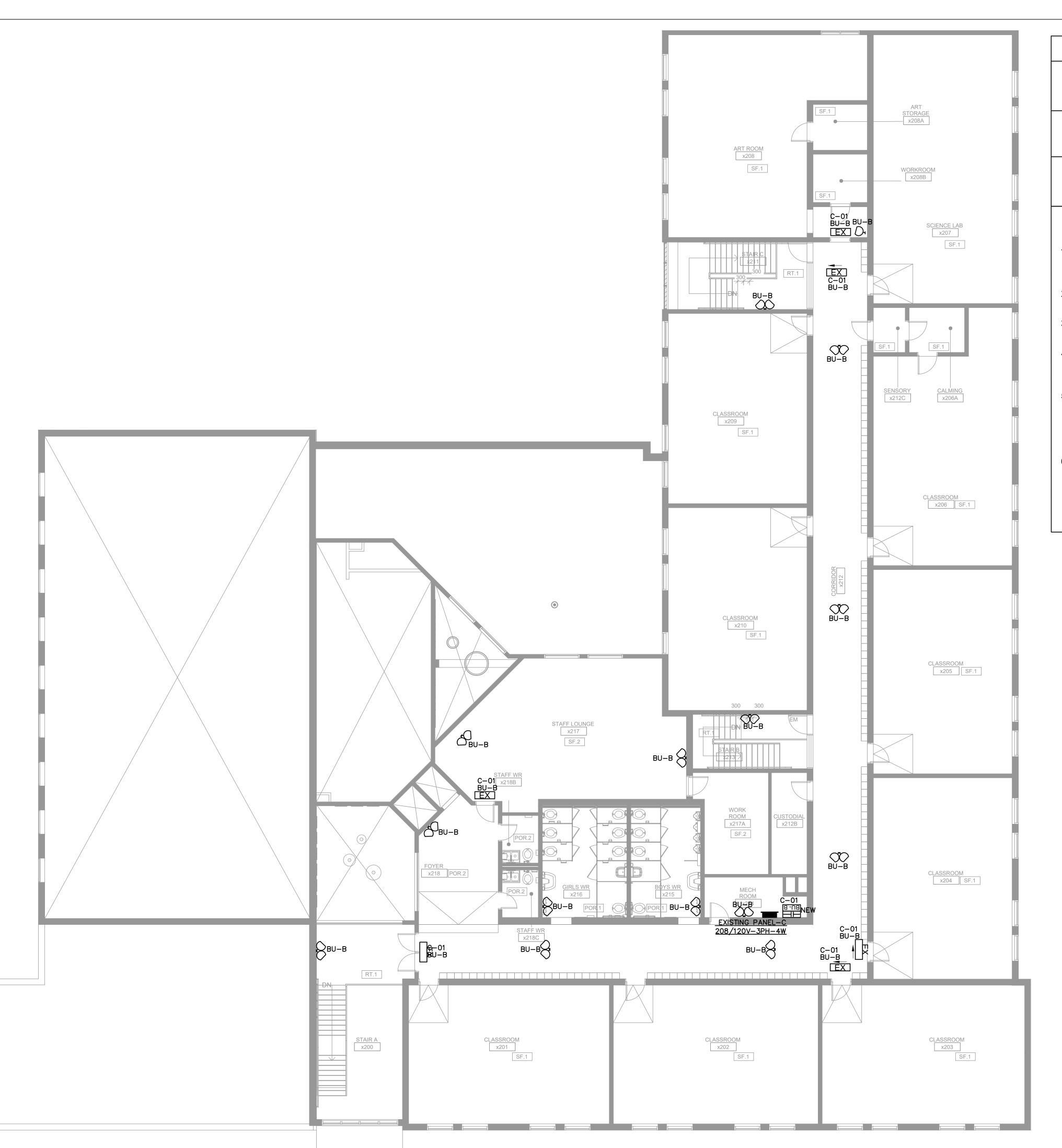
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW BATTERY UNITS AS SHOWN ON THE ELECTRICAL DRAWINGS.

4. ELECTRICAL CONTRACTOR TO CONNECT ALL NEW EMERGENCY LIGHTING FIXTURES, EXIT SIGNS TO THE NEW

5. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY WIRING, CONDUIT, AND CONNECTIONS REQUIRED FOR THE NEW EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS, IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS.

6. THE CONTRACTOR SHALL ENSURE THAT ALL NEW EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS ARE PROPERLY INTEGRATED WITH THE NEW BATTERY UNITS, ALLOWING FOR CONTINUOUS OPERATION DURING EMERGENCY CONDITIONS.

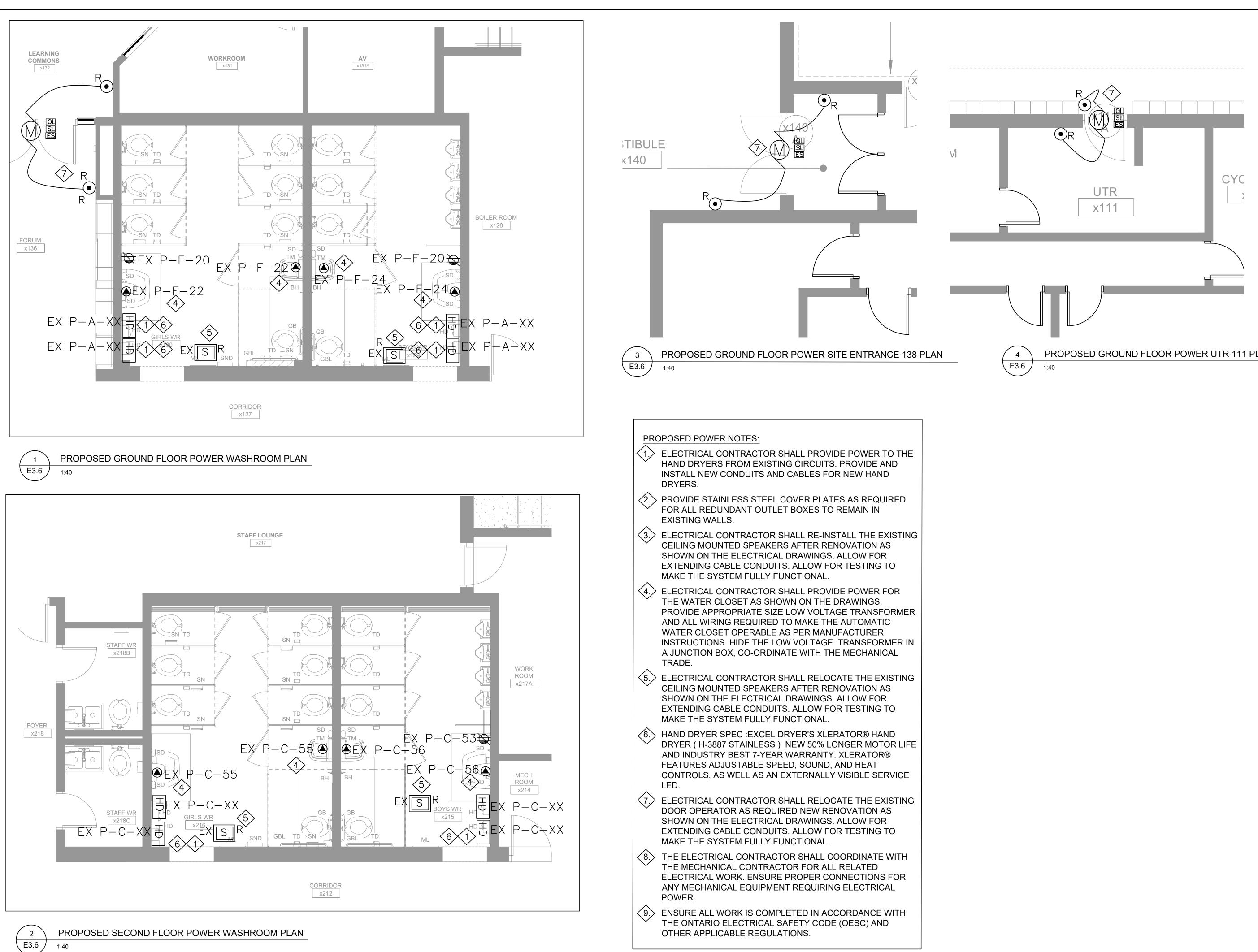
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|                              | ASCENSION CES RENOVATION PROJECT  | 5205 New Street,<br>Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD  |
|                              | 1   | MERGENCY<br>EXIT SIGNS   |
|                              | REGAL CONSULTIN<br>CONSULTING MECHANICAL<br>208 Wyecroft Road, Suite 20<br>PHONE: (90 | B         ELECTRICAL ENGINEERS           0.0 Oakville, Ontario L6K 3S3         05)844-3913           0.1 eng.com         Electrometers |
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| Ç  |                                  | EMERGENCY LIGHTING FIXTURE  |                       |             |  |   |  |
|    |                                  | BATTERY UNIT  |                       |             |  |   |  |
|    | NOTES                            | <u>S:</u>   |                       |             | L  |   |  |
| 1. |                                  | RACTOR TO INSTALL THE NEW EXISTING<br>EILING WITH T BAR HANGER AND CHAIN  |                       |             | JECJ   |   |  |
| 2. | ELECT                            | RICAL CONTRACTOR TO PROVIDE AND<br>GENCY LIGHTINGS AS SHOWN.  | INSTALL NEW           |             | ROJE(  |   |  |
| 3. | ELECT                            | RICAL CONTRACTOR TO PROVIDE AND<br>RY UNITS AS SHOWN ON THE ELECTRIC  |                       |             | Δ  |   |  |
| 4. | ELECT<br>EMER(                   | RICAL CONTRACTOR TO CONNECT ALL<br>GENCY LIGHTING FIXTURES, EXIT SIGNS<br>RY UNITS.   | NEW                   |             | NOL  |   | SD   |
| 5. | THE C<br>NECES<br>REQUI<br>AND E | ONTRACTOR SHALL PROVIDE AND INST<br>SSARY WIRING, CONDUIT, AND CONNEC<br>RED FOR THE NEW EMERGENCY LIGHT<br>XIT SIGNS, IN COMPLIANCE WITH APPLI<br>TANDARDS.        | TIONS<br>NG FIXTURES  |             | ENOVATIO   |   | SCHOOL BOARD   |
| 6. | THE C<br>EMER<br>PROPE<br>ALLOV  | ONTRACTOR SHALL ENSURE THAT ALL<br>BENCY LIGHTING FIXTURES AND EXIT S<br>ERLY INTEGRATED WITH THE NEW BATT<br>VING FOR CONTINUOUS OPERATION DU<br>GENCY CONDITIONS. | GNS ARE<br>ERY UNITS, |             | N CES R  |   | 5205 New Street,<br>Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCH |
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|    |                                  |   |                       | 4:28:14<br> | EGAL CONSULTING MECT<br>208 Wyecroft Road<br>208 Wyecroft Road<br>Pt<br>ATE : FE<br>CALE :<br>RAWN BY:<br>HECKED BY :<br>WG STATUS : | ULTING ENGIN<br>ULTING ENGIN<br>HANICAL & ELECTRIC/<br>A, Suite 200, Oakville, Or<br>HONE: (905)844-3913<br>www.regal-eng.com<br>BRUARY 2<br>1:100<br>AS<br>MA<br>ENDER | AL ENGINEERS<br>tario L6K 3S3 2025   |
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PROPOSED GROUND FLOOR POWER UTR 111 PLAN

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|                              | ASCENSION CES RENOVATION PROJECT      |  | 5205 New Street,       | Burlington, Ontario, L7L 1V3<br>HALTON CATHOLIC DISTRICT SCHOOL BOARD |  |
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