UNIVERSAL WASHROOM INTERIOR ALTERATION



DCDSB MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL

1324 OXFORD ST, OSHAWA, ON

LIST OF DRAWINGS

21125: UNIVERSAL WASHROOM DCDSB ARCHITECTURAL

COVER

PART DEMOLITION & PART CEILING DEMOLITION PLANS

PART FLOOR PLAN & PART REFLECTED CEILING PLAN

ELEVATIONS, DETAILS AND SCHEDULES

SPECIFICATIONS

STRUCTURAL

GENERAL NOTES KEY PLAN, ENLARGED FRAMING PLAN, SECTIONS & DETAILS

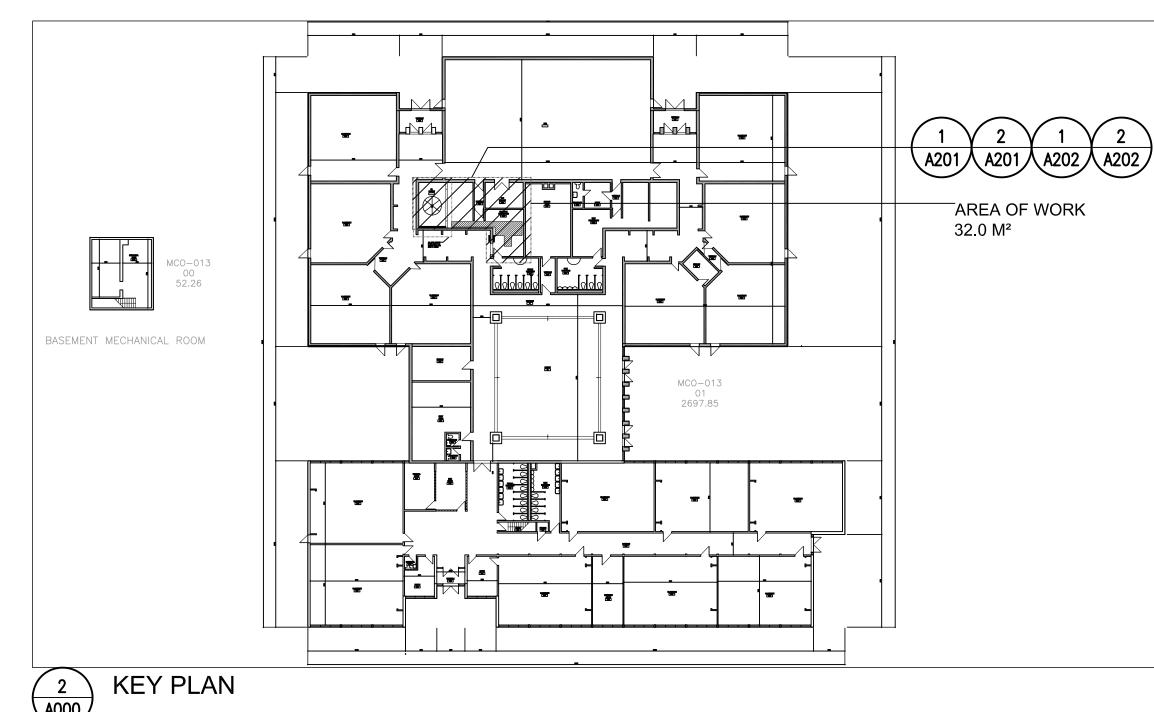
ELECTRICAL

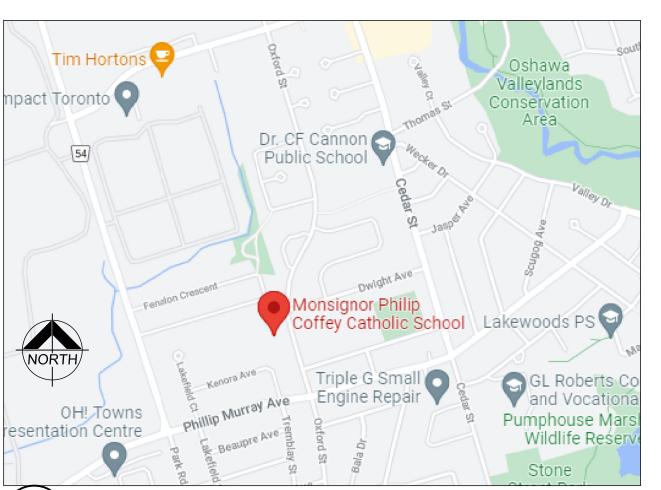
DEMO & NEW - POWER & LIGHTING LAYOUTS

LEGENDS AND NOTES

MECHANICAL

DEMO & NEW - HVAC & PLUMBING LAYOUTS LEGENDS, NOTES AND SCHEDULE DETAILS







ARCHITECTURAL:

ELECTRICAL/MECHANICAL:



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201 Whitby Ontario L1N 0G5

Tel: (905) 666-5252

Fax: (905) 666-5256 e-mail: bba@bba-archeng.com



NAME OF PROJECT: UNIVERSAL WASHROOM INTERIOR ALTERATION

CERTIFICATE OF PRACTICE NUMBER: 5192

250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA. LIN 0G5

TEL: (905) - 666 - 5252 (Toronto) (905) - 427 - 4495 FAX: (905) - 666 - 5256

LOCATION OF PROJECT:

NAME OF PROJECT:

UNIVERSAL WASHROOM AT MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL

APPROX. RENOVATION AREA: 32 M²

MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA, ON DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DATE: **APRIL 2022**

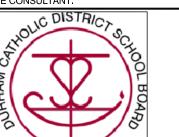
		Part 11 - Renovation of Existing Building	
11.00	Building Code Version	on: <u>O. Reg. 332/12</u> Last Amendment: <u>O. Reg. 191/14</u>	
11.01	Project Type:	☐ Addition ☐ Renovation ☐ Addition and Renovation ☐ Change of use	[A] 1.1.2.
		Description	
11.02	Major Occupancy Classification:	Occupancy A2 ELEMENTARY SCHOOL	3.1.2.1.(1)
11.03	Superimposed Major Occupancies:	☐ Yes	3.2.2.7
11.04	Building Area (m²)	Description Existing New Total GROUND FLOOR 2696 - 2696 M²	[A] 1.4.1.2.
11.05	Building Height	1 Storeys above grade 2696 M² (m) Above grade - Storeys below grade	[A] 1.4.1.2 & 3.2.1.1
11.06	Number of streets/ fire fighter access:	ONE street(s)	3.2.2.10 & 3.2.5
11.07	Building Size:	☐ Small ☐ Medium ☐ Large ☐ > Large	T.11.2.1.1.BN.
	Existing Building Classification:	Change in Major Occupancy: Yes Not Applicable (no change of major occupancy) Construction Index: 6	11.2.1 T11.2.1.1A T11.2.1.1B to N, 4.2.1(3) & 5.2.2.1.(2)
11.09	Renovation Type:	☐ Basic Renovation ☐ Extensive Renovation	11.3.3.1 & 11.3.3.2
	Occupant Load:	Floor Level/ Area Occupancy Type Based On Occup. Load GROUND FLOOR NO CHANGE	
	Plumbing Fixture Requipments:	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area	3.7.4
11.12	Barrier-free Design:	 ✓ Yes Explaination NEW UNIVERSAL WASHROOM AS □ No 	11.3.3.2.(2)
11.13	Reduction in Performance Level:	Structural By Increase in occupant load: By change of major occupancy: Plumbing Sewage - system: No Yes No Yes No Yes No Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.14	Compensating	☐ Yes	11.4.2.1
	Construction:	Structural	11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7
11.15	Compliance Alternatives Proposed:	☑ No □ Yes	11.5.1.
11.16	Notes:	RENOVATION OF EXISTING STORAGE/CHANGEROOM SPACE TO PROVIDE A UNIVERSAL WASHROOM IN COMPLIANCE WITH SECTION 3.8 OBC 2012	11.5.1

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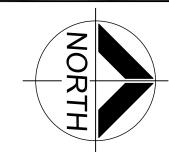
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NO.	ISSUES		DATE	ВҮ
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2	ISSUED FOR S	90% REVIEW	MAR. 09 2022	BBA
3	ISSUED FOR F	PERMIT	APR. 07 2022	BBA
4	ISSUED FOR 1	TENDER	APR. 08 2022	BBA



PROJECT:

UNIVERSAL WASHROOM INTERIOR ALTERATION

MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:

COVER



Architects

Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario

CHECKED BY: NOVEMBER, 2021

% COMPLETE:

DESIGN BY:

JMORTON

DRAWN BY:

N.T.S

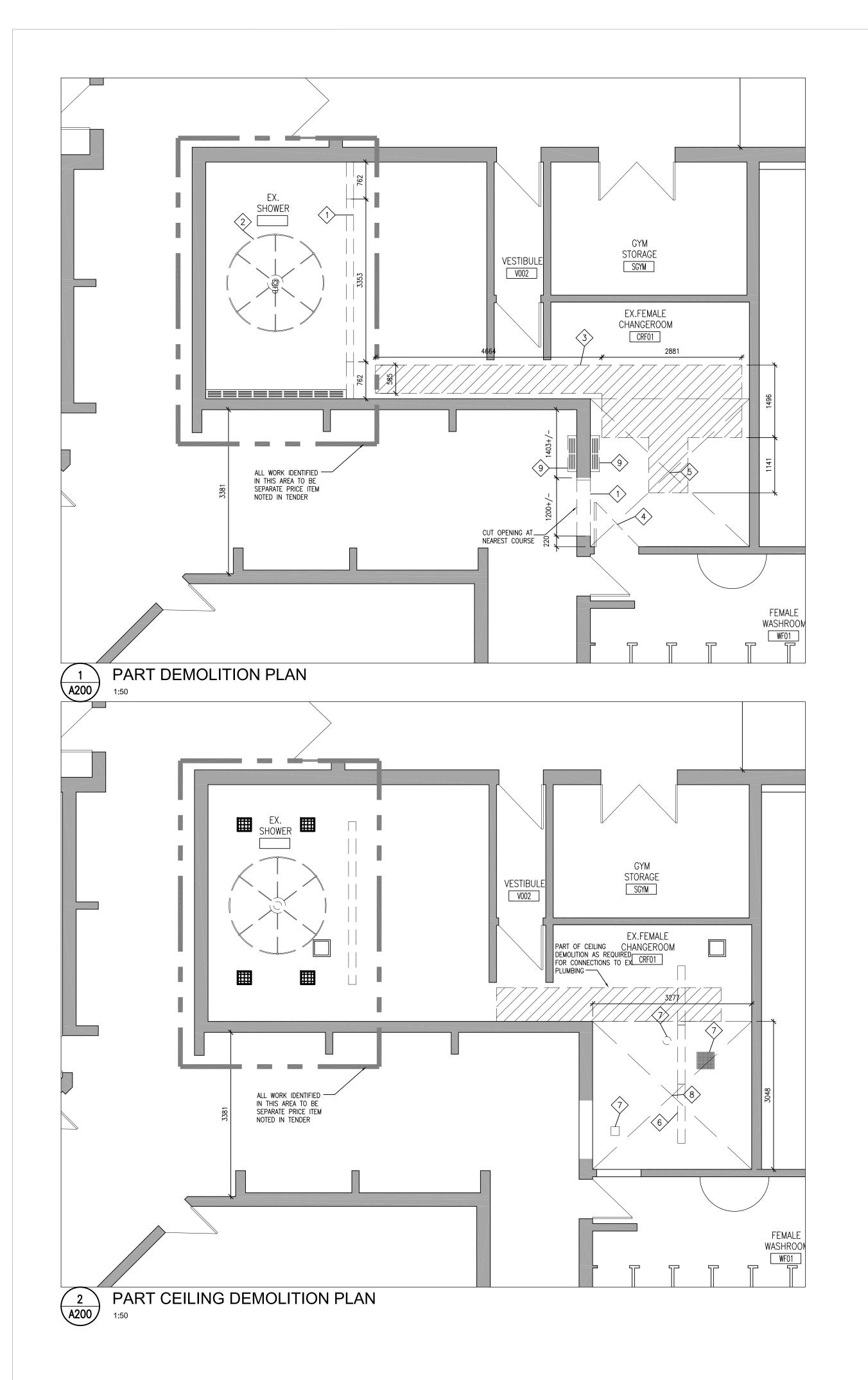
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JMORTON

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

PROJECT NO: DRAWING NO: 21125

A000



TYPICAL DEMOLITION NOTES

- 1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
- 2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
- 3. ALL WORK TO COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
- 4. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT
- SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF. 5. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES
- COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
- 6. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
- 7. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. 8. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR
- DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT. 9. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS
- REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL. OR CAUSE OTHERS TO FALL. 10. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.

REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE

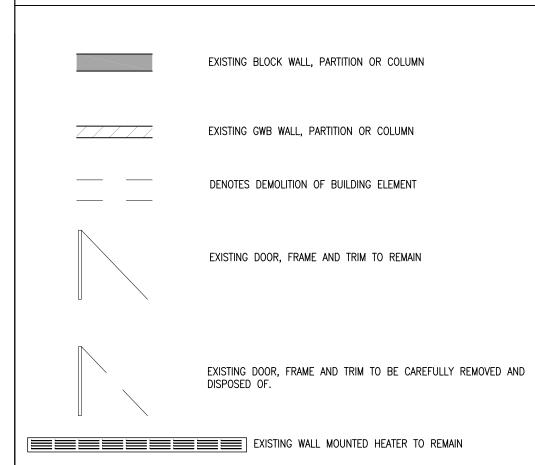
- 11. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE PATCHING & LEVELING OF SLABS.
- 12. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
- 13. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
- 14. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
- 15. REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
- 16. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
- 17. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- 18. DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
- 20. CONSTRUCTION AREA TO BE SECURED BY THE G.C. AT ALL TIMES.
- 21. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS
- 22. REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.

DEMOLITION NOTES

SURFACES.

- REMOVE EXISTING MASONRY PARTITION WALL AND FLOOR CURB TO EXTENT SHOWN AND AS REQUIRED TO COMPLETE NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL
- REMOVE EXISTING PLUMBING FIXTURES AS REQUIRED TO COMPLETE NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. REFER TO MECHANICAL
- SAW CUT & REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR PLUMBING
- CONNECTIONS. PATCH REPAIR & MAKE GOOD UPON COMPLETION REMOVE EXISTING DOOR, AND FRAME. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED
- REMOVE EXISTING PORCELAIN TILE FROM FLOORS AT EXTENT SHOWN TO COMPLETE NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES TO RECEIVE
- CAREFULLY REMOVE EXISTING LIGHT FIXTURES AND RELOCATE TO SHOWER AREA
- REMOVE EXISTING CEILING FIXTURES AND DISPOSE
- REMOVE EXISTING GYPSUM CEILING AT EXTENT SHOWN AND AS REQUIRED TO COMPLETE NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- REMOVE EXISTING WALL MOUNTED HEATER REFER TO MECHANICAL. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.

DEMOLITION LEGEND



FLOORING LEGEND

MECHANICAL

EX.	EXISTING				
PCT	PORCELAIN CERAMIC TILE				
CEILING	CEILING LEGEND				
	EXISTING LIGHT FIXTURE				
-					

EXISTING WALL MOUNTED HEATER TO BE REMOVED REFER TO

EXISTING ACCESS HATCH

EXISTING LIGHT FIXTURE TO BE REMOVED FOR RELOCATION EXISTING LIGHT FIXTURE TO BE REMOVED EXISTING SENSOR TO BE REMOVED

EXISTING AIR RETURN TO BE REMOVED

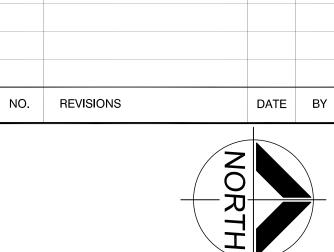
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PROJECT:

UNIVERSAL WASHROOM **INTERIOR ALTERATION**

MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON

DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:

PART DEMOLITION & PART CEILING DEMOLITION **PLANS**



BARRY BRYAN Architects

Tel: (905) 666-5252

Fax: (905) 666-5256

e-mail: bba@bba-archeng.com

Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

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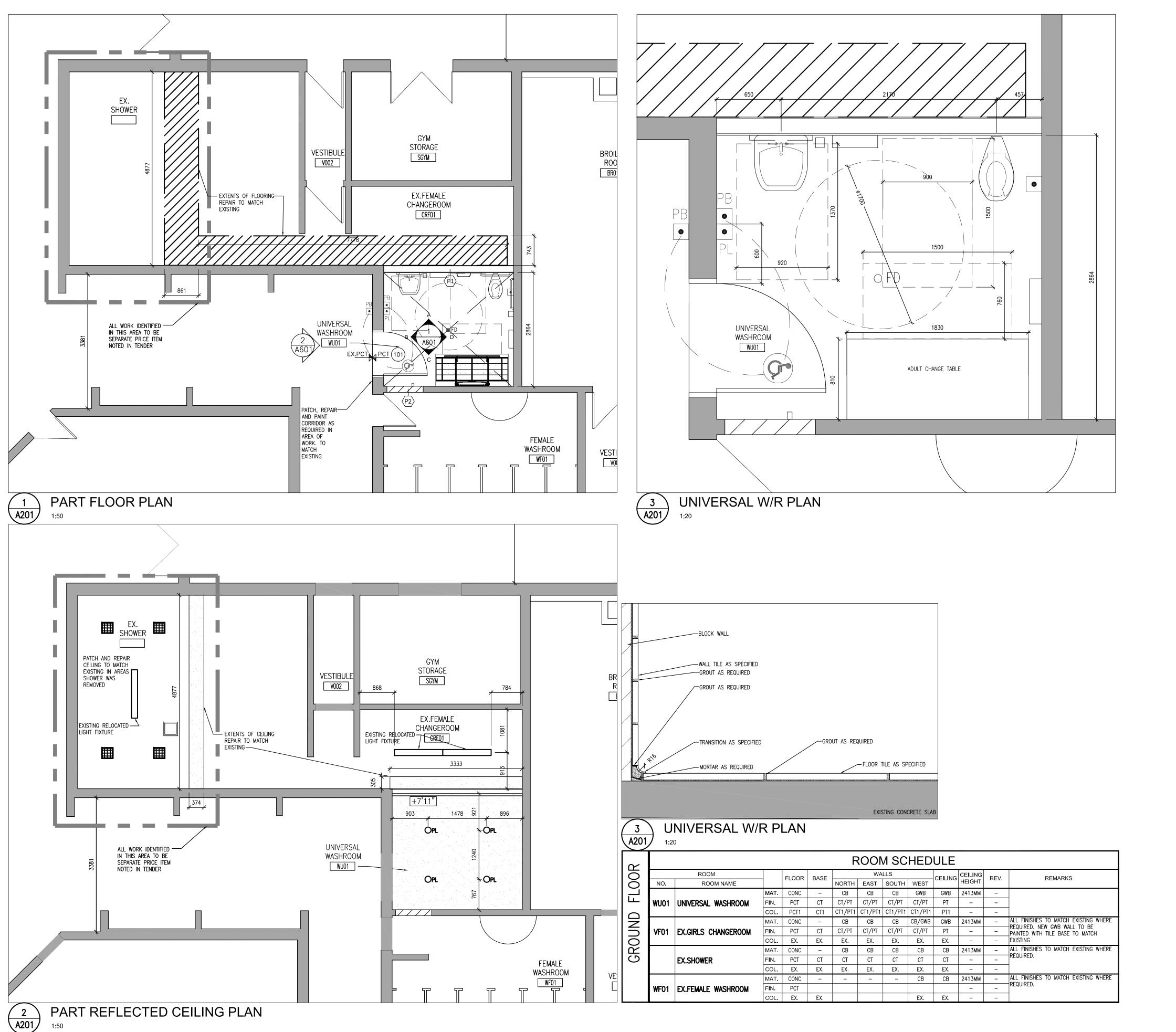
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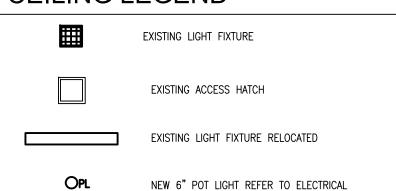


PARTITION TYPES SCHEDULE

13mm MOLD AND MOISTURE RESISTANCE GYPSUM WALL BOARD 152mm STEEL STUDS @ 400mm O.C. 152mm STEEL STUDS @ 400mm O.C. 89mm MIN. SOUND ATTENUATION BATTS 13mm GYPSUM WALL BOARD

P2 190mm CONCRETE BLOCK WALL TO MATCH EXISTING

CEILING LEGEND

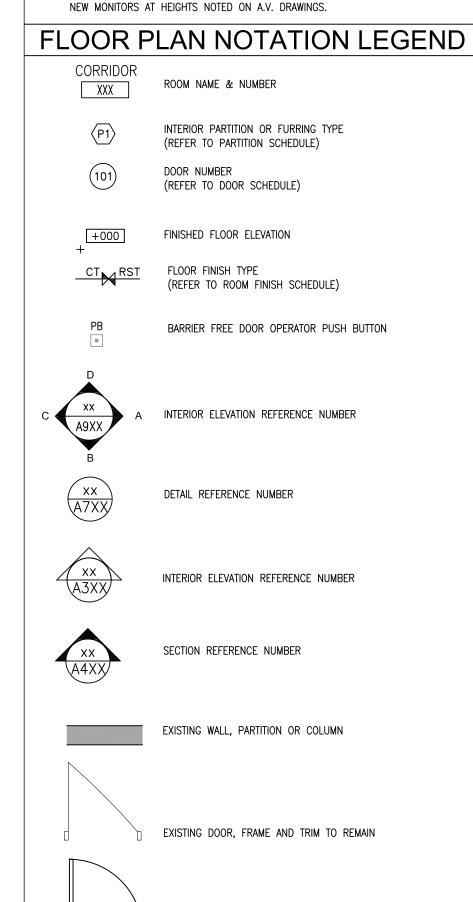


GENERAL NOTES

OTHERWISE NOTED ON FINISH PLAN.

PARTITION & FURRING NOTES:

- . UNLESS OTHERWISE NOTED ALL METAL STUDS TO TERMINATE AT U/S OF FINISHED FLOOR STRUCTURE
- 2. ALL GYPSUM WALL BOARD ABOVE CEILING TO EXTEND TO U/S MTL DECK (4200mm) UNLESS NOTED OTHERWISE.
- 3. ALL GYPSUM WALL BOARD EXPOSED TO TERMINATE AT U/S OF FINISHED FLOOR
- 4. ALL GYPSUM WALL BOARD TO BE PAINTED WHERE EXPOSED.
- 5. ADD 2 LAYERS 19mm PLYWOOD ABOVE GLASS PARTITIONS AS REQUIRED FOR ALL WALL AND CEILING EXTRUSIONS.
- 6. FURNITURE SHOWN FOR REFERENCE ONLY AND IS NOT IN CONTRACT UNLESS
- 7. PROVIDE ADEQUATE BLOCKING IN NEW WALLS AS REQUIRED FOR INSTALLATION OF



NEW DOOR

FLOOR DRAIN

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4	ISSUED FOR TENDER	APR. 08 2022	BBA

PROJECT:

NO. REVISIONS

UNIVERSAL WASHROOM **INTERIOR ALTERATION**

DATE BY

MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON

DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:

PART FLOOR PLAN & PART REFLECTED **CEILING PLAN**



BARRY BRYA
Architects

Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

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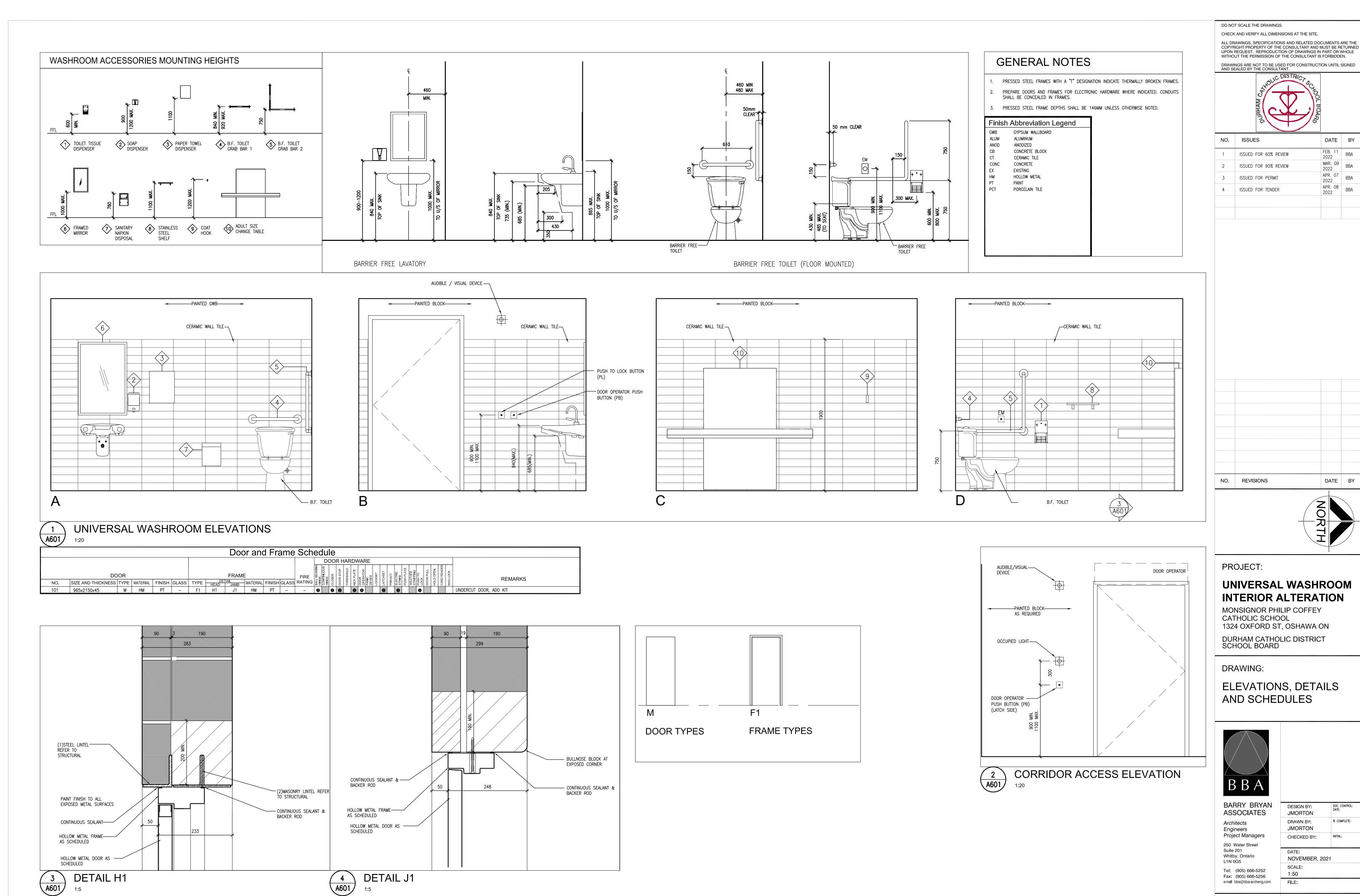
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PROJECT NO: 21125

e-mail: bba@bba-archeng.com

DRAWING NO: **A202**



DRAWING NO:
A601

PROJECT NO:

21125

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION.
- COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS.
- INSTALL HOARDING, DUST CONTROL/PROTECTION, COVERED WALKWAYS AND FENCING IN ACCORDANCE WITH ONTARIO BUILDING CODE. CANADIAN CONSTRUCTION SAFETY REQUIREMENTS, ALL MUNICIPAL BY-LAWS, STANDARDS, OCCUPATIONAL HEALTH AND SAFETY ACT AND THESE DOCUMENTS/SPECIFICATIONS.
- SITE VERIFY ALL DIMENSIONS, LEVELS AND EXISTING CONDITIONS AND IMMEDIATELY NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- INSTALL ALL MANUFACTURED ITEMS IN STRICT ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS AND THE REVIEWED SHOP DRAWINGS.
- ALL INTERIOR FINISHES SHALL MEET FLAME SPREAD AND SMOKE DEVELOPED
- CLASSIFICATIONS AS REQUIRED BY THE ONTARIO BUILDING CODE. THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL BE USED.
- OBEY ALL FEDERAL, PROVINCIAL AND MUNICIPAL LAWS, ACTS, STATUTES, REGULATIONS, ORDINANCES AND BY-LAWS WHICH COULD, IN ANY WAY, PERTAIN TO THE WORK OUTLINED IN THE CONTRACT, OR TO ANY EMPLOYEE OF THE CONTRACTOR. SATISFY ALL STATUTORY REQUIREMENTS IMPOSED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS MADE THEREUNDER, ON A CONTRACTOR, AND CONTRACTOR AND/OR EMPLOYER WITH RESPECT TO OR ARISING OUT OF THE
- 10. NOTIFY THE OWNER SHOULD ANY HAZARDOUS CONDITION BECOME APPARENT.

PERFORMANCE OF THE CONTRACTORS OBLIGATIONS UNDER THIS CONTRACT.

- 11. PROVIDE SAFEGUARD AND PROTECTION AGAINST FIRE IN ACCORDANCE WITH THE CURRENT FIRE CODES AND REGULATIONS.
- 12. COMPLY WITH FEDERAL, PROVINCIAL AND MUNICIPAL REGULATIONS PERTAINING TO WORK TIME RESTRICTIONS, WASTE, AIR, SOLID WASTE, CHEMICAL WASTE, SANITARY WASTE, SEDIMENT AND NOISE POLLUTION.
- 13. TAKE SPECIAL CARE TO PREVENT ACCUMULATION OF MOISTURE ON MATERIALS AND WITHIN PACKAGING DURING DELIVERY. STORAGE AND HANDLING TO PREVENT DEVELOPMENT OF MOLD AND MILDEW ON PACKAGING AND PRODUCTS.
- 14. NO SMOKING IS PERMITTED ON THE PROJECT SITE.

SHOP DRAWINGS & SUBMITTALS

- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CONSULTANT FOR REVIEW DIGITAL COPIES OF SHOP DRAWINGS, INCLUDING FABRICATION DETAILS, PLANS, DETAILS. THICKNESS. ANCHORAGE, FINISHES, ELEVATIONS, HARDWARE, AND INSTALLATION FOR DOORS, WINDOWS, MISC. METALS, STEEL MEMBERS, CONNECTIONS, ANCHORS, DOOR HARDWARE SCHEDULE, PAINT DRAW DOWNS, FINISHED MATERIAL SAMPLES, EQUIPMENT, AND ALL OTHER PRODUCTS REQUIRED.
- 2. REFER TO GENERAL CONDITIONS OF THE CONTRACT.
- PROVIDE MAINTENANCE MANUALS.
- PROVIDE AS BUILT RED LINED DRAWINGS FOR CONSULTANT REVIEW, PROVIDE CAD AS BUILT DRAWINGS FOLLOWING REVIEW

CONSTRUCTION

- PROVIDE CONSTRUCTION FACILITIES IN ORDER TO EXECUTE THE WORK EXPEDITIOUSLY. REMOVE, RESTORE SITE AND SURFACES AFTER USE.
- PROVIDE AND MAINTAIN REQUIRED ACCESS TO PROJECT SITE AND ADJACENT AREAS AS REQUIRED BY THE OWNER.
- 3. HEIGHT, WIDTH AND WEIGHT RESTRICTIONS MUST BE VERIFIED PRIOR TO BRINGING EQUIPMENT INTO THE WORK AREA.
- PROVIDE NECESSARY SCREENS, COVERS AND HOARDINGS.
- 5. OBEY AND ENFORCE ALL PARKING AND VEHICLE RESTRICTIONS AND SPEED LIMITS.
- 6. PROVIDE SANITARY FACILITIES FOR WORK FORCE IN ACCORDANCE WITH GOVERNING REGULATIONS AND ORDINANCES.
- 7. BE RESPONSIBLE FOR SECURITY OF SITE, EQUIPMENT, TOOLS AND MATERIALS.
- 8. MAINTAIN THE BUILDING IN A SECURE AND WEATHERPROOF CONDITION AT ALL TIMES DURING CONSTRUCTION.

DEMOLITION/REMOVALS

- EQUIPMENT TO A MINIMUM BY USE OF WATER SAWS AND INSTALLING AND MAINTAINING DUST TARPAULINS AS DIRECTED AND APPROVED BY THE OWNER.
- REFER TO ASBESTOS SURVEY.
- COMPLETE ALL WORK INCLUDING ABATEMENT AND DISPOSAL OF ACM'S AND OTHER DESIGNATED SUBSTANCES IN ACCORDANCE WITH THE MUNICIPALITY OF DURHAM, MINISTRY OF LABOUR AND MINISTRY OF ENVIRONMENT REQUIREMENTS AND PROCEDURES.
- REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE, PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.
- REMOVE EXISTING CERAMIC TILE FLOORING, BASE AND GROUT, AND PREPARE EXISTING SLABS TO RECEIVE NEW CERAMIC TILE FLOORING IN ACCORDANCE WITH TILE MANUFACTURER'S INSTRUCTIONS.

FIRESTOPPING AND SMOKE **SEALS**

- FIRESTOPPING AND SMOKE SEAL SYSTEMS ULC LISTED IN ACCORDANCE WITH
- ASBESTOS-FREE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH REQUIREMENTS OF CAN/ULC-S115-11, ULC LABELLED. AND NOT TO EXCEED OPENING SIZES FOR WHICH THEY ARE INTENDED.
- FIRE STOPPING MATERIALS; FOAMED IN PLACE INSULATION, MORTAR, GROUT, GUN GRADE SEALANT, MINERAL FIBRE OR OTHER ULC LABELLED PRODUCTS.
- 4. SERVICE PENETRATION ASSEMBLIES AS LISTED IN ULC GUIDE 40 U19.
- 5. SEALANTS FOR VERTICAL JOINTS SHALL BE NON-SAGGING.
- SUBMIT CERTIFIED TEST REPORTS FROM APPROVED INDEPENDENT TESTING LABORATORIES. INDICATING COMPLIANCE OF APPLIED FIRE STOPPING WITH SPECIFICATIONS FOR SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES

SEALANTS

- ALL SEALANT MATERIAL SHALL BE ASBESTOS FREE.
- 2. SUBMIT WHMIS DATA SHEETS FOR REVIEW AND APPROVAL.
- 3. SEAL ALL JOINTS BETWEEN DISIMILAR MATERIALS AND SURFACES.
- 4. SEALANT SHALL BE TREMCO MONO OR EQUIVALENT.
- BACKER ROD: SEALTIGHT ETHAFOAM BY WR MEADOWS OR EQUIVALENT. SIZED 30-50% LARGER THAN JOINT.
- PRIMERS AS RECOMMENDED BY SEALANT MANUFACTURER.
- CLEAN AND PRIME SUBSTRATES AND INSTALL BACKER ROD AND SEALANT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- SEALANTS SHALL COMPY WITH THE FOLLOWING STANDARDS; 8.1. ASTM C834-14 STANDARD SPECIFICATION FOR LATEX SEALANTS 8.2. ASTM C920-14A STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS 8.3. ASTM C1184-14 STANDARD SPECIFICATION FOR STRUCTURAL SILICONE
- 8.4. ASTM C1193-13 STANDARD GUIDE FOR USE OF JOINT SEALANTS 8.5. ASTM C1311-14 STANDARD SPECIFICATION FOR SOLVENT RELEASE SEALANTS

HOLLOW METAL DOORS AND FRAMES

- 1. DOORS: 18 GAUGE, WIPE COAT GALVANIZED STEEL,
- FRAMES: 16 GAUGE PRESSED STEEL, WIPE COAT GALVANIZED, FORMED TO PROFILES
- FRAME ANCHORS: TO SUIT, MIN 18 GAUGE GALV STEEL C/W HARDWARE. PROVIDE SIX (6) JAMB ANCHORS AND TWO (2) BASE ANCHORS FOR EACH FRAME
- PRIMER: TO CGSB 1-GP-181
- WELDING: TO CSA W59
- BLANK, MORTICE, REINFORCE, DRILL AND TAP DOORS AND FRAMES TO RECEIVE TEMPLATED HARDWARE AS REQUIRED
- 7. FIT INTERIOR FRAMES WITH RUBBER BUMPERS, GLYN JOHNSON GJ64

ROUGH CARPENTRY

- 1. STRUCTURAL LUMBER TO CSA 086.
- 2. ALL MATERIAL SHALL BE IDENTIFIED BY GRADE STAMP OF AN ASSOCIATION OR APPROVED GRADING AGENCY, STRUCTURAL LUMBER SHALL BE GRADE MARKED TO
- FRAMING LUMBER: SPF 2
- 4. STUDS: SPF STUD GRADE
- PANEL MATERIALS TO CSA 0121, TIGHT FACED, SELECT GRADE, THICKNESS AS NOTED,
- 6. INTERIOR PANELS: EXTERIOR GRADE D. FIR PLYWOOD G1S
- ANCHOR BOLTS MINIMUM 10mm DIAMETER COMPLETE WITH NUTS AND OVERSIZED
- 8. PRESERVATIVE TREATMENT TO CSA 080.
- TIMBER TO TIMBER CONNECTIONS IN SAME PLANE SHALL BE MADE WITH APPROVED JOIST HANGERS OR FRAMING ANCHORS.
- 10. PROVIDE LATERAL RESTRAINT AT ALL BEARING LOCATIONS AND ONE ROW OF BRIDGING 15. CONCRETE FILL TO BE 20 MPa IN ACCORDANCE WITH CAN3-A23. 1-94. AT ALL MIDSPANS UNLESS NOTED OTHERWISE.

- RIGID INSULATION AT PERIMETER OF GROUND FLOOR SLAB AND BELOW GRADE:
- EXTRUDED EXPANDED POLYSTYRENE TO CAN/ULC S701 TYPE 4 THICKNESS AS DETAILED, 400 X 2440 MM BOARDS WITH BUTT EDGES.
- MATERIAL SHALL HAVE THE FOLLOWING CHARACTERISTICS WHEN TESTED TO THE REFERENCE STANDARDS: COMPRESSIVE STRENGTH: ASTM D1621
- 4.1. 207 KPA. WATER ABSORPTION: ASTM D2842 MAXIMUM 0.7% BY VOLUME.
- 4.2. WATER ABSORPTION: ASTM C272 MAXIMUM 0.3% BY VOLUME. 4.3. WATER VAPOUR PERMEANCE, ASTM E9690 NG/PASM2
- 4.4. COEFFICIENT OF LINEAR THERMAL EXPANSION, ASTM D696ED 6.3 X 10-2
- 4.5. THÉRMAL RESISTANCE RSI: ASTM C518 4.6. 0.87/25 MM STYROFOAM SM INSULATION AS MANUFACTURED BY DOW

CONCRETE

- 1. CONCRETE CONSTRUCTION SHALL CONFORM TO CSA A23 SERIES
- 2. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25 MPA FOR FOUNDATIONS AND 25 MPA FOR FLOOR SLABS AT 28 DAYS UNLESS NOTED OTHERWISE.
- MAXIMUM AGGREGATE SIZE 19mm.

CONFORMING TO CSA G30.18, GRADE 400.

PREMIX BY STERNSON OR APPROVED EQUIVALENT.

- 4. MAXIMUM SLUMP 75mm.
- CONCRETE COVER FOR REINFORCEMENT SHALL CONFORM TO CSA A23.3
- 6. REINFORCING BAR LAPS SHALL BE 24 X DIAMETER FOR DEFORMED BARS.
- 7. ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL
- 8. WELDED STEEL WIRE FABRIC PLAIN TYPE CONFORMING TO CSA G30.5, IN FLAT SHEETS, NOT ROLLS.
- STRUCTURAL GROUT SHALL BE NON-SHRINK, NON-METALLIC M BED STANDARD
- 10. ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS. ALL SUPPORTS SHALL BE MADE OF PRECAST CONCRETE BLOCKS, PLASTIC OR WIRE. BAR SUPPORTS OVER 200mm IN HEIGHT SHALL BE MADE OF BENT OR WELDED STEEL BAR. BAR SUPPORTS SHALL BE SUFFICIENT IN NUMBER AND STRENGTH TO PREVENT DISPLACEMENT BY WORKERS OR EQUIPMENT BEFORE AND DURING CONCRETE PLACEMENT

MASONRY

- 1. DO MASONRY WORK IN ACCORDANCE WITH CAN/CSA A371 EXCEPT WHERE SPECIFIED ELSEWHERE
- . PROVIDE TEMPORARY BRACING OF MASONRY WORK UNTIL PERMANENT LATERAL SUPPORT IS IN PLACE.
- 6. MATERIALS SHALL BE KEPT CLEAN AND DRY. 4. CEMENTITIOUS MATERIALS AND AGGREGATES SHALL BE STORED IN ACCORDANCE WITH
- REQUIREMENTS OF CAN/CSA A23.1 . KEEP MASONRY DRY USING SECURE WATERPROOF NON-STAINING COVERINGS THAT EXTEND OVER WALLS AND DOWN SIDES SUFFICIENT TO PROTECT WALLS FROM SNOW. RAIN AND DIRT UNTIL MASONRY WORK IS COMPLETE AND PROTECTED BY FLASHINGS OR OTHER PERMANENT CONSTRUCTION
- 6. CONCRETE BLOCK: MODULAR, TO CSA A165.1 STANDARD CONCRETE MASONRY UNITS.
- 7. PLAIN MASONRY UNITS: H/15/A/M CONCRETE.
- 8. ALL EXPOSED BLOCK CORNERS SHALL BE BULLNOSE.
- . MASONRY REINFORCING: BLOCK-LOK "BLOCK-TRUS" HEAVY DUTY HOT DIP GALVANIZED WITH 4.7mm SIDE AND 3.9mm CROSS RODS IN WIDTHS 50mm LESS THAN WALL THICKNESS. INSTALL MASONRY REINFORCING IN BOTTOM 2 BED JOINTS AND AT 400mm C/C VERTICALLY IN REMAINDER OF WALL. USE FABRICATED CORNERS AND TEE SECTIONS FOR CONTINUOUS REINFORCEMENT AT CORNERS AND INTERSECTING WALLS. DO NOT PASS REINFORCING THROUGH MASONRY CONTROL JOINTS.
- 10. MORTAR MATERIALS, AGGREGATE, HYDRATED LIME TO CONFORM TO CSA A179; CEMENT: NORMAL PORTLAND TO CAN-3-A5-93 OR MASONRY CEMENT TO CAN3-A8-93.
- 11. CEMENT: NORMAL PORTLAND CEMENT TO CAN--A5 OR CAN 3-A8.
- 12. WATER SHALL BE CLEAN, POTABLE AND FREE OF DELETERIOUS AMOUNTS OF ACID,
- ALKALIS OR ORGANIC MATERIALS.
- 13. TYPE 'S' MORTAR SHALL BE USED FOR ALL MASONRY WORK.
- 14. MORTAR COLOUR SHALL BE NATURAL GREY.

FINISH CARPENTRY

- 1. STAINLESS STEEL: TYPE 304. 1.6mm THICK STAINLESS STEEL SHEET, SATIN FINISH.
- SOFTWOOD LUMBER: TO CSA 0141, AWMAC PREMIUM GRADE, PONDEROSA PINE.
- 3. NAILS AND STAPLES: TO CSA B111. 4. ROUGH HARDWARE: BOLTS, LAG SCREWS, ANCHORS, EXPANSION SHIELDS AND THE LIKE AS REQUIRED TO SECURE THE WORK. ROUGH HARDWARE HOT DIP GALVANIZED CONFORMING TO LATEST EDITION OF CAN/CSA-G164. EXPOSED BOLTS TO BE
- STAINLESS STEEL OR CADMIUM PLATED CARRIAGE BOLTS.

5. SEAL ALL EDGES OF VANITIES WITH CLEAR SILICONE SEALANT

GYPSUM BOARD

- 1. COMPLY WITH REQUIREMENTS OF CSA A82.30 AND CSA A82.31 MOISTURE RESISTANT GYPSUM BOARD; CSA A82.27 STANDARD, FOR NON-RATED APPLICATIONS. 1219mm WIDE X MAXIMUM PRACTICAL LENGTH, TAPERED EDGES,
- THICKNESS AS INDICATED. 3. LIGHTWEIGHT STEEL FRAMING FOR EXTERIOR WALLS TO ASTM A446.
- 4. NON-LOAD-BEARING CHANNEL STUD FRAMING TO ASTM C645, ROLL FORMED
- 5. SCREWS: CASE HARDENED SELF DRILLING NO. 6 GAUGE DRYWALL SCREWS TO CSA
- 6. JOINT TAPE: 50mm WIDE PERFORATED PAPER.

9. ACOUSTIC INSULATION: MINERAL WOOL.

GALVANIZED SHEET STEEL.

- 7. JOINT FILLER AND TOPPING: CASEIN, VINYL OR ACRYLIC BASE.
- 8. CASING BEADS; 20 GAUGE SHEET STEEL G20 FINISH, ASTM A525, PERFORATED,

PAINT

- 1. ALL PAINTING SHALL BE IN ACCORDANCE WITH THE MASTER PAINTERS INSTITUTE (MPI)
- ARCHITECTURAL SPECIFICATION MANUAL. 2. PAINT MATERIALS AND MANUFACTURERS LISTED IN LATEST EDITION OF MPI APPROVED
- PRODUCTS LIST (APL) ARE ACCEPTABLE FOR USE ON THIS PROJECT. 3. PROVIDE PAINT PRODUCTS MEETING MPI "ENVIRONMENTALLY FRIENDLY" E2 OR E3
- RATINGS BASED ON VOC (EPA METHOD 24) CONTENT LEVELS. 4. STORE ALL PAINT MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE
- MINISTRY OF LABOUR. CLEAN AND PREPARE ALL SURFACES PRIOR TO PAINTING IN ACCORDANCE WITH MPI
- AND PAINT MANUFACTURERS INSTRUCTIONS.
- 6. TEST ALL SURFACES FOR MOISTURE. DO NOT PAINT WHEN MOISTURE CONTENT
- 7. SEAL ALL KNOTS IN WOODWORK WITH EXTERIOR GRADE KNOT SEALER OR AS OTHERWISE DIRECTED BY THE PAINT MANUFACTURER.
- PAINT ALL NEW MATERIALS AND SURFACES
- PAINT SCHEDULE: COLOUR WILL BE SELECTED BY THE CONSULTANT FROM FULL RANGE OF MANUFACTURERS COLOUR CHARTS
- 10.1. WALLS: NO DEFECTS VISIBLE FROM A DISTANCE OF 1000 MM AT 90 DEGREES 10.2. SOFFITS: NO DEFECTS VISIBLE FROM FLOOR AT 45 DEGREES TO SURFACE WHEN VIEWED USING FINAL LIGHTING SOURCE.
- 10.3. FINAL COAT TO EXHIBIT UNIFORMITY OF COLOUR AND UNIFORMITY OF SHEEN ACROSS FULL SURFACE AREA. 11. DELIVER TO EXTRA MATERIALS FROM SAME PRODUCTION RUN AS PRODUCTS INSTALLED. PACKAGE PRODUCTS WITH PROTECTIVE COVERING AND IDENTIFY WITH

11.1. QUANTITY: PROVIDE ONE FOUR LITRE CAN OF EACH TYPE AND COLOUR OF

PRIMER STAIN FINISH COATING. IDENTIFY COLOUR AND PAINT TYPE IN RELATION

TO ESTABLISHED COLOUR SCHEDULE AND FINISH SYSTEM. 12. <u>INTERIOR PAINTING SYSTEMS</u>

STANDARD OF ACCEPTANCE:

- 12.1. METAL FABRICATIONS: INT 5.3A LATEX G5 SEMI-GLOSS FINISH
- 12.2. GALVANIZED METAL (INTERIOR DOORS, FRAMES): INT 5.3A LATEX G5 SEMI-GLOSS FINISH
- 12.3. GYPSUM BOARD WALLS : INT 9.2A LATEX G3 EGGSHELL FINISH OVER LATEX
- 12.4. GYPSUM BOARD: CEILINGS AND BULKHEADS: INT 9.2A LATEX G2 VELVET FINISH OVER LATEX SEALER.

12.5. CONCRETE MASONRY UNITS: INT 4.2D, HIGH PERFORMANCE ARCHITECTURAL

LATEX G5 SEMI-GLOSS FINISH 13. ALL OTHER SURFACES NOT NOTED ABOVE: HIGH PERFORMANCE FINISH SUITABLE FOR COMMERCIAL AND INSTITUTIONAL ENVIRONMENT AND IN ACCORDANCE WITH MPI

- INSTALLATION OF CERAMIC TILE SHALL CONFORM TO INSTALLATION MANUAL 200, "CERAMIC TILE", BY THE TERRAZZO, TILE AND MARBLE ASSOCIATION OF CANADA (TTMAC) AND THE MANUFACTURER'S DIRECTIONS.
- SUBMIT FULL RANGE OF MANUFACTURERS STANDARD SHAPES AND COLOURS FOR SELECTION BY THE CONSULTANT.
- 3. DELIVER, STORE AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURERS
- 4. FLOOR TILE: OLYMPIA STREAM SERIES 12" X 24". MATTE FINISH. WHITE.

5. WALL AND BASE TILE: OLYMPIA COLOUR AND DIMENSION SERIES 4" X 8". BRIGHT

- 6. SETTING COMPOUND: TO ANSI A1181, PORTLAND CEMENT FLOOR AND WALL THIN SET ADHESIVE WITH LATEX ADDITIVES.
- 7. GROUT: FLEXTILE LTD GROUT DOVE GREY. 8. MORTAR BED: 1 PART PORTLAND CEMENT, 4 PARTS SAND AND 1 PART WATER, WITH
- MINIMUM 1/10 PART LATEX ADHESIVE. 9. FLOOR SEALER: AS RECOMMENDED BY TILE MANUFACTURER.
- 10. LAYOUT WALL AND FLOOR TILE WITH 1/16" JOINTS. 11. INSTALL WALL TILES IN PATTERN AS DETAILED OR DIRECTED BY THE OWNER.
- 12. CLEAN AND SEAL FLOOR TILES.
- 13. TRANSITIONS: SCHLUTER-DILEX-HK PVC COVE SHAPED PROFILE FLOOR/ WALL TRANSITIONS. GREY

WASHROOM ACCESSORIES

- INSTALL WASHROOM ACCESSORIES IN ACCORDANCE WITH THE ONTARIO BUILDING CODE REQUIREMENTS FOR BARRIER FREE ACCESS, AND CAN/CSA B651-M.
- ALL WASHROOM ACCESSORIES SHALL HAVE STAINLESS STEEL FINISH AND CONCEALED
- TAMPERPROOF FASTENINGS UNLESS NOTED OTHERWISE.
- 3. TPD: TOILET TISSUE DISPENSER: SUPPLIED AND INSTALLED BY CONTRACTOR. 4. TPD: TOILET TISSUE DISPENSER: SWISH TORK 4-40LL TISSUE DISPENSER 88411
- 335MM H X 152MM L X 381MM D. BLACK.
- SD: SOAP DISPENSER: LIQUID WALL MOUNTED SOAP DISPENSER.SUPPLIED AND INSTALLED BY CONTRACTOR. SD: SOAP DISPENSER: LIQUID WALL MOUNTED SOAP DISPENSER: SWISH FOAM-EEZE
- BULK FOAM DISPENSER 9325W 276MM H X 125MM L X 111MM D 1000ML PTD: PAPER TOWEL DISPENSER: SUPPLIED AND INSTALLED BY CONTRACTOR.
- PTD: PAPER TOWEL DISPENSER: SWISH TORK ELECTRONIC HAND TOWEL ROLL DISPENSER 771828 405MM H X 237MM L X 313MM D. BLACK
- GB1: GRAB BAR, 38 MM DIAMETER X 1.6 MM WALL TUBING OF STAINLESS STEEL, 76 MM DIAMETER WALL FLANGES, CONCEALED SCREW ATTACHMENT, FLANGES WELDED TO TUBULAR BAR, PROVIDED WITH STEEL BACK PLATES AND ALL ACCESSORIES. KNURL BAR AT AREA OF HAND GRIPS. GRAB BAR MATERIAL AND ANCHORAGE TO WITHSTAND DOWNWARD PULL OF 2.2 KN. 600 MM LONG. BOBRICK B-6806.99 X 24
- GB3: BARRIER FREE TOILET GRAB BARS 2 (L-SHAPED) 760 X 760 38 MM DIA. PEENED FINISH C/W MOUNTING KITS. BOBRICK 816722.99, 900 ANGLE GRAB BAR.

WASTE RECEPTACLE.

- 10. FRAMED MIRROR: BOBRICK B-165 1830. 11. SND: SANITARY NAPKIN DISPOSAL: SATIN-FINISH STAINLESS STEEL SURFACE MOUNTED DISPOSAL UNIT. DOOR WITH TUMBLER LOCK. SELF-CLOSING PANEL COVER TO COVER DISPOSAL OPFNING, REMOVABLE, LEAK-PROOF, 4.6 LITRE PLASTIC RECEPTACLE, UNIT SIZE 270 X 385 X 105MM. BOBRICK B-354 CLASSIC SERIES SANITARY NAPKIN
- STAINLESS STEEL SHELF: TO CSA B651-12. 455 MM LONG X 125MM WIDE, 1.2MM TYPE 304 STAINLESS STEEL, SATIN FINISH. 19MM RETURN EDGE; FRONT EDGE HEMMED FOR SAFETY. 1.6MM BRACKETS. BOBRICK B295 X 18
- 13. COLLAPSIBLE COAT HOOK: BOBRICK B-983
- 14. ADJUSTABLE HEIGHT CHANGE TABLE: HEIGHT ADJUSTABLE CHANGE TABLE, MAX-ABILITY PRESSALIT 1000 ADJUSTABLE HEIGHT SIZE: 1800 X 717 X 276 MM BY MAX-ABILITY.

ELECTRICALLY OPERATED UNIT REFER TO ELECTRICAL OR APPROVED ALTERNATE

	FINISHES SCHEDULE
PT1	BENJAMIN MOORE ICE BLUE 2052-70
PT2	MATCH EXISTING DOOR PAINT
PT3	DOOR FRAME PAINT TO MATCH EXISTING
PT4	CEILING PAINT TO MATCH EXISTING
PCT	OLYMPIA TILE STREAM SERIES 12X24 MATTE FINISH WHITE
СТ	OLYMPIA TILE COLOUR AND DIMENSION 4X8 BRIGHT ARCTIC WHITE — STACKED

INSTALLATION

DO NOT SCALE THE DRAWINGS.

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	FEB. 11 2022	BBA
2	ISSUED FOR 90% REVIEW	MAR. 09 2022	BBA
3	ISSUED FOR PERMIT	APR. 07 2022	BBA
4	ISSUED FOR TENDER	APR. 08 2022	BBA

NO. REVISIONS DATE BY

PROJECT:

UNIVERSAL WASHROOM **INTERIOR ALTERATION**

CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON

DURHAM CATHOLIC DISTRICT

MONSIGNOR PHILIP COFFEY

DRAWING:

SCHOOL BOARD

SPECIFICATIONS



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

250 Water Street Suite 201 Whitby, Ontario

Tel: (905) 666-5252

Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

L1N 0G5

JMORTON CHECKED BY: NOVEMBER, 2021

DOC CONTROL:

% COMPLETE:

DESIGN BY:

JMORTON

DRAWN BY:

SCALE:

1:1

FILE:

PROJECT NO: DRAWING NO:

GENERAL

- . ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION AND THE OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS.
- CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- 3. SITE VERIFY ALL DIMENSIONS AND LEVELS.
- 4. KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- 5. THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL BE USED.
- 6. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.

MASONRY

- 1. MASONRY WORK IN ACCORDANCE WITH CAN/CSA A370 AND CAN/CSA A371 EXCEPT WHERE SPECIFIED OTHERWISE.
- 2. ONLY TYPE 'S' MORTAR SHALL BE USED, MINIMUM STRENGTH SHALL BE 12.4 MPa AT
- 3. GROUT (PEA GRAVEL) AT BOND BEAMS AND GROUTED HOLLOW BLOCKS TO BE A MINIMUM OF 20MPa COMPRESSIVE STRENGTH AT 28 DAYS. IN ACCORDANCE WITH
- 4. MORTAR FOR EXPOSED EXTERIOR MASONRY SHALL BE AIR ENTRAINED.
- 5. PROVIDE LATERAL RESTRAINT AT TOP OF NON-LOAD BEARING BLOCK PARTITIONS AS INDICATED ON TYPICAL DETAILS.
- 6. PROVIDE VERTICAL WALL REINFORCING FOR FULL HEIGHT OF LIFT, CONTINUOUS FROM FLOOR TO FLOOR/ROOF, WITH CLASS B LAPS.
- MASONRY WORK SHALL CONFORM TO CAN3-S304 AND ITS REFERENCED DOCUMENTS,
- A. CONCRETE BLOCK TO CSA-A165.1, TYPE H15/A, SEE ARCH. DWGS. FOR FIREWALL REQUIREMENTS UNLESS NOTED OTHERWISE. (BASED ON NET AREA) - H
- 15/C FOR FIREWALL B. MORTAR TO CSA-A179M, TYPE 'S' FOR ALL WALLS.
- GROUT TO CSA-A179-M.
- MASONRY WIRE REINFORCING TO CSA-G30.14. REINFORCING BARS TO CSA-G30.18-M-400 MPa.
- WELDED REINFORCING BARS TO CSA-G30.18-400 MPa. G. CONNECTION TO CAN/CSA A370. H. PRACTICE TO CAN/CSA A371.
- 8. STRUCTURAL DRAWINGS INDICATE ONLY LOAD-BEARING WALLS.
- 9. SUBMIT EVIDENCE OF MORTAR AND GROUT STRENGTH. FIELD CONTROL AND TESTING SHALL COMPLY WITH REQUIREMENTS OF CLAUSE 5 OF CAN3-304.
- 10. PROVIDE TEMPORARY BRACING OF MASONRY WORK UNTIL PERMANENT LATERAL SUPPORT IS IN PLACE.
- 11. PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS. SEE LINTEL SCHEDULE FOR REQUIREMENTS.
- 12. REFER TO TYPICAL DETAILS FOR BOND BEAM AND BEARING REQUIREMENTS AT FLOORS
- 13. MINIMUM STANDARD LAP LENGTH: WIRE REINF. 200mm(8")

10M BARS - 400mm(16")15M BARS - 600mm(24")20M BARS - 800mm(32")

- 14. UNLESS NOTED OTHERWISE, PROVIDE 2-15M VERTICAL BARS FULL HEIGHT AT: A. UNSUPPORTED ENDS OF WALLS B. EACH SIDE OF CONTROL JOINTS
- 15. PROVIDE CLEANOUT PORT AT BOTTOM OF EACH GROUTED CORE WHEN REQUIRED BY ENGINEER. DO NOT CLOSE PORT OR PLACE GROUT UNTIL CORE AND STEEL HAVE BEEN
- 16. FILL CELLS CONTAINING VERTICAL REINFORCING AND BOLTS WITH GROUT VIBRATE OR PUDDLE TO FILL CELLS COMPLETELY.
- 17. FILL CELLS IN 1500mm (60") LIFTS MAXIMUM OR BETWEEN BOND BEAMS, WHICHEVER HAVE BEEN MADE TO THE SATISFACTION OF THE ENGINEER.
- 18. CONTROL JOINTS SHALL BE INSTALLED AT MAXIMUM SPACING OF 6000mm(20'-0"), IF NOT OTHERWISE SHOWN ON ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 19. FILL BLOCK CORES UNDER ALL BEAMS, JOISTS AND OTHER CONCENTRATED POINT LOADS WITH CONCRETE GROUT. GROUT SHALL EXTEND A MINIMUM OF 600mm (24") BELOW LOAD.
- 20. CONTROL JOINTS AND EXPANSION JOINTS SHALL BE CONTINUED THROUGH BOND BEAMS IF NOT OTHERWISE SHOWN.
- 21. NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5° CELSIUS. UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND PROTECTING THE
- 22. SET BASE PLATES ON MASONRY ON MIN. 25MPa NON-SHRINK GROUT FOR LEVELING.
- 23. FIRST COURSE OF MASONRY TO BE LAID IN A FULL BED OF MORTAR. ALL OTHER COURSES TO BE LAID WITH MORTAR AT FACE SHELL BED AND HEAD JOINTS.

CONCRETE BLOCK MASONRY COMPRESSIVE STRENGTH (MPa)						
LOCATION	NET	GROSS (f'm) FOR HOLLOW BLOCK	GROSS (f'm) FOR SOLID OR GROUTED BLOCK			
TYP. ALL CONCRETE BLOCK	15	9.8	7.5			

24. POCKETS FOR STEEL BEAMS AND JOISTS SHALL BE GROUTED SOLID AND THE WALL MADE GOOD AFTER

DEMOLITION NOTES

- PROVIDE PROTECTION AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING STRUCTURE AND/OR ADJACENT EQUIPMENT. PROTECT ALL EXISTING FINISHES, FRAMES AND
- SAW CUT, REMOVE AND DISPOSE OF EXISTING DEMOLISHED MATERIALS OFF-SITE, AS REQUIRED TO COMPLETE THE WORK. REMOVAL OF ALL ACM IS BY OTHERS.
- KEEP THE WORK AND STAGING AREAS CLEAN AND ORDERLY AT ALL TIMES AND FREE FROM RUBBLE AND DEBRIS. NOTIFY CONSULTANT OF ANY LOAD BEARING MEMBERS OR ASSEMBLIES DISCOVERED
- OR IDENTIFIED DURING WORK WITH EXCESSIVE DETERIORATION BEYOND WHAT IS NOT INDICATED ON THE DRAWINGS. DO NOT PROCEED WITH REMOVAL WITHOUT PRIOR REVIEW BY THE CONSULTING STRUCTURAL ENGINEER.
- ALL BUILDING MATERIALS TO BE REMOVED FROM THE BUILDING SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE REMOVED FROM THE SITE.
- 6. COVER ALL LOADED TRUCKS LEAVING THE DEMOLITION SITE.
- 7. CARRY OUT SAFETY MEASURES AS PER THE CONSTRUCTION SAFETY ASSOCIATION OF ONTARIO ACT AND REGULATIONS FOR DEMOLITION.
- 8. THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY MANUAL APPLIES TO THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH
- 9. CONTRACTOR SHALL KEEP CLEAR AND NOT INHIBIT THE USE OF BUILDING FIRE ROUTE AND ALL HYDRANTS DURING THE ENTIRE DEMOLITION WORK.
- 10. REPORT ANY DOUBTFUL UNFORESEEN AND/OR UNEXPECTED SITE CONDITIONS TO THE ENGINEER PRIOR TO PROCEEDING.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1 AND CAN/CSA-A23.3 WITH THE FOLLOWING PROVISION:

LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
SLAB ON GRADE	25 MPa	80± 30	N*
ALL OTHER INTERIOR CONCRETE	25 MPa	80± 30	N

- 2. NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
- 3. DURING WINTER WEATHER BELOW 5 °C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
- 4. WHEN PIPES, CONDUITS, OR SLEEVES ARE REQUIRED TO PENETRATE CONCRETE
- ASSEMBLIES, THE FOLLOWING SHALL BE OBSERVED: - SPACING OF SUCH ITEMS SHALL BE 3x DIAMETER C/C.
- CONCRETE SHALL NOT BE PENETRATED WITHIN 600mm (24") OF
- ANY PENETRATIONS SHALL BE A MINIMUM OF 600mm (24") FROM ALL EDGES, SUCH AS ENDS AND TOPS OF WALLS. - FOR ANY PENETRATIONS GREATER THAN 300mm (12"), CONSULT THE ENGINEER FOR REVIEW AND DETERMINATION OF EXTRA REINFORCEMENT

CONCRETE REINFORCEMENT

1. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
SLABS	25mm(1") TOP BARS 25mm(1") BOTTOM BARS
SURFACE IN CONTACT WITH GROUND	75mm(3")

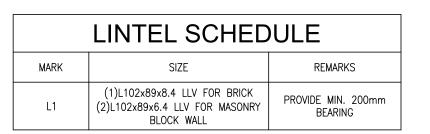
- 2. STRUCTURAL GROUT SHALL BE NON-SHRINK, NON METALLIC M-BED STANDARD PREMIX BY SIKA OR APPROVED EQUAL.
- 3. DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- 4. REINFORCING BAR SPLICES FOR DEFORMED BARS: COLUMNS - COMPRESSION LAP UNLESS NOTED WALLS - CLASS 'B' TENSION SPLICE UNLESS NOTED ALL OTHERS - CLASS 'B' TENSION LAP UNLESS NOTED
- 5. ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
- 6. WELDED STEEL WIRE FABRIC, PLAIN TYPE CONFORMING TO ASTM A1064/A1064M-17 IN FLAT SHEETS NOT ROLLED.
- 7. ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR
- 8. PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1 AND CSA A23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
- 9. CHAIRS SHALL BE SPACED AT 1200mm(4'-0")O.C. MAXIMUM.

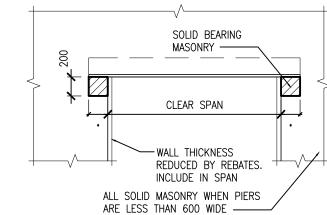
TEMPORARY WORKS

- 1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
- 2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE
- WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION. ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED

FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE

4. SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

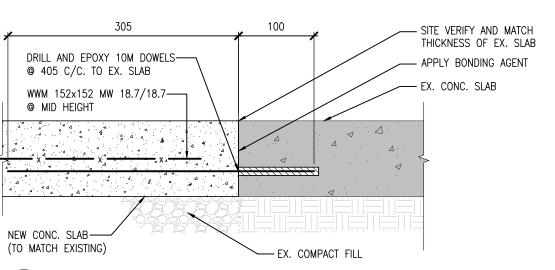




* BEARING LENGTH 150 (6") MINIMUM EACH END (STEEL ANGLE LINTEL 200 (8") MINIMUM EACH END (BLOCK LINTELS)

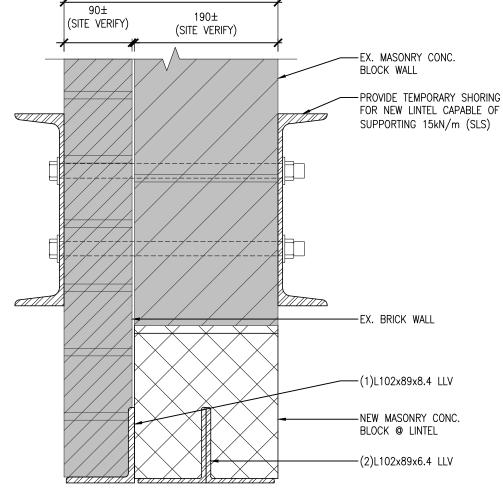


TYP. MASONRY LINTEL DETAIL

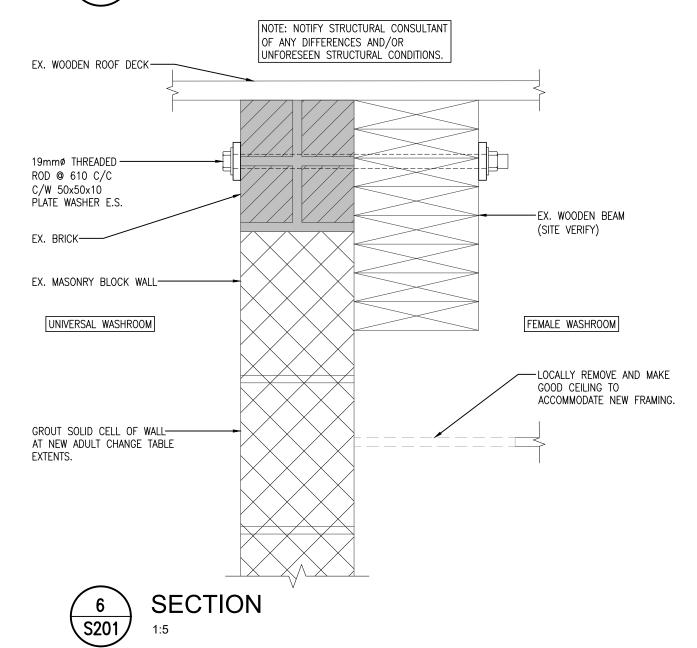


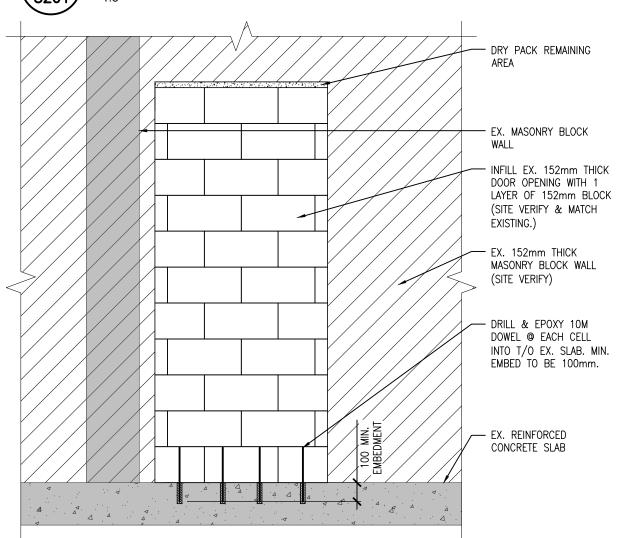


283± (SITE VERIFY)



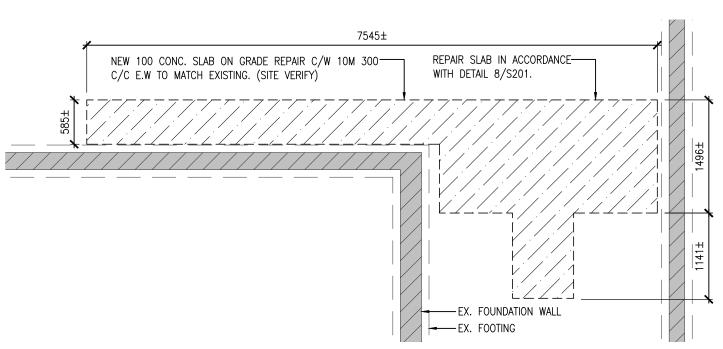
LINTEL - L1 SECTION S201



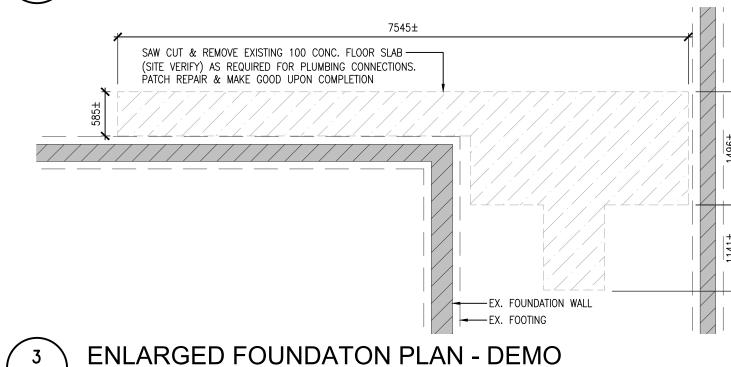


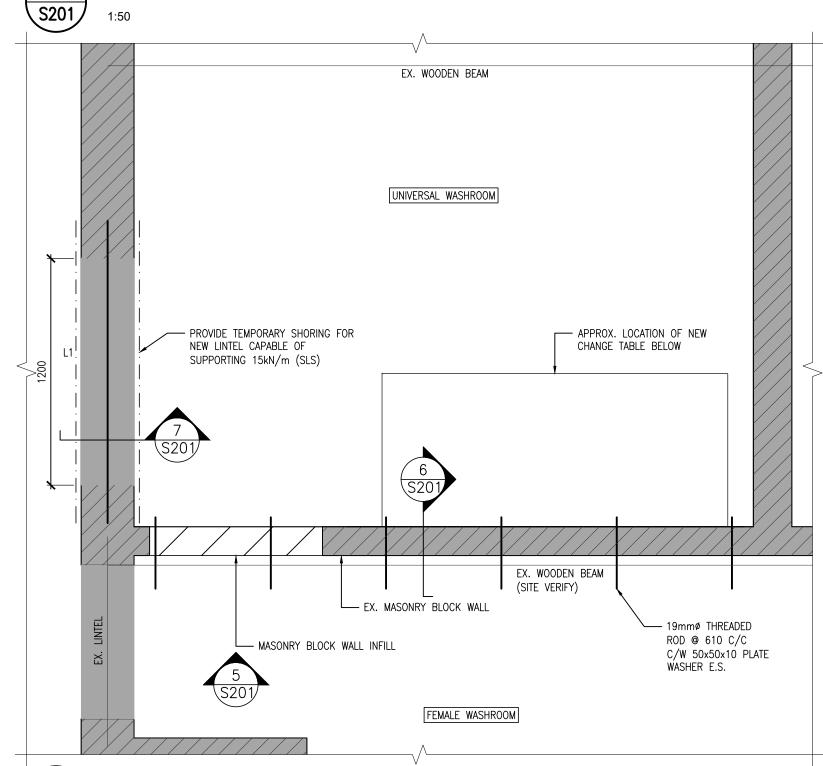


DOOR INFILL FOR 152mm WALL (MATCH EXISTING)

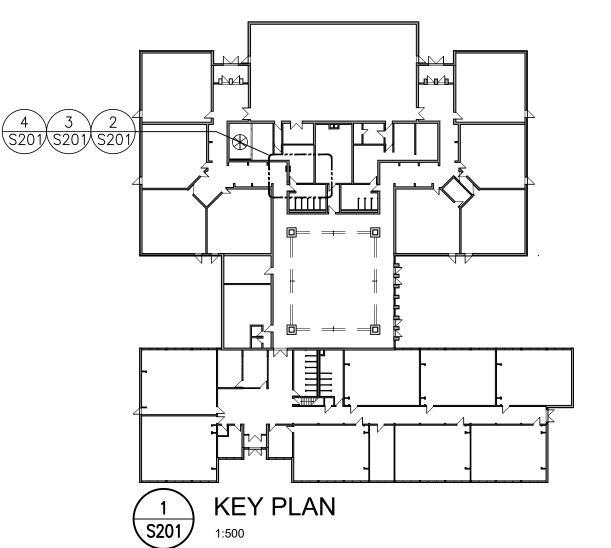












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NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	FEB. 11 2022	BBA
2	ISSUED FOR 90% REVIEW	MAR. 09 2022	BBA
3	ISSUED FOR PERMIT	APR. 07 2022	BBA
4	ISSUED FOR TENDER	APR. 08 2022	BBA
			-

DATE BY NO. REVISIONS



PROJECT:

UNIVERSAL WASHROOM **INTERIOR ALTERATION**

MONSIGNOR PHILIP COFFEY **CATHOLIC SCHOOL** 1324 OXFORD ST, OSHAWA ON **DURHAM CATHOLIC DISTRICT**

DRAWING:

SCHOOL BOARD

GENERAL NOTES KEY PLAN, ENLARGED FRAMING PLAN, **SECTIONS & DETAILS**



BARRY BRYAN **ASSOCIATES** Architects Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

CHECKED BY: NOVEMBER, 2021 Tel: (905) 666-5252 1:50 Fax: (905) 666-5256

FILE:

DESIGN BY:

DRAWN BY:

JMORTON

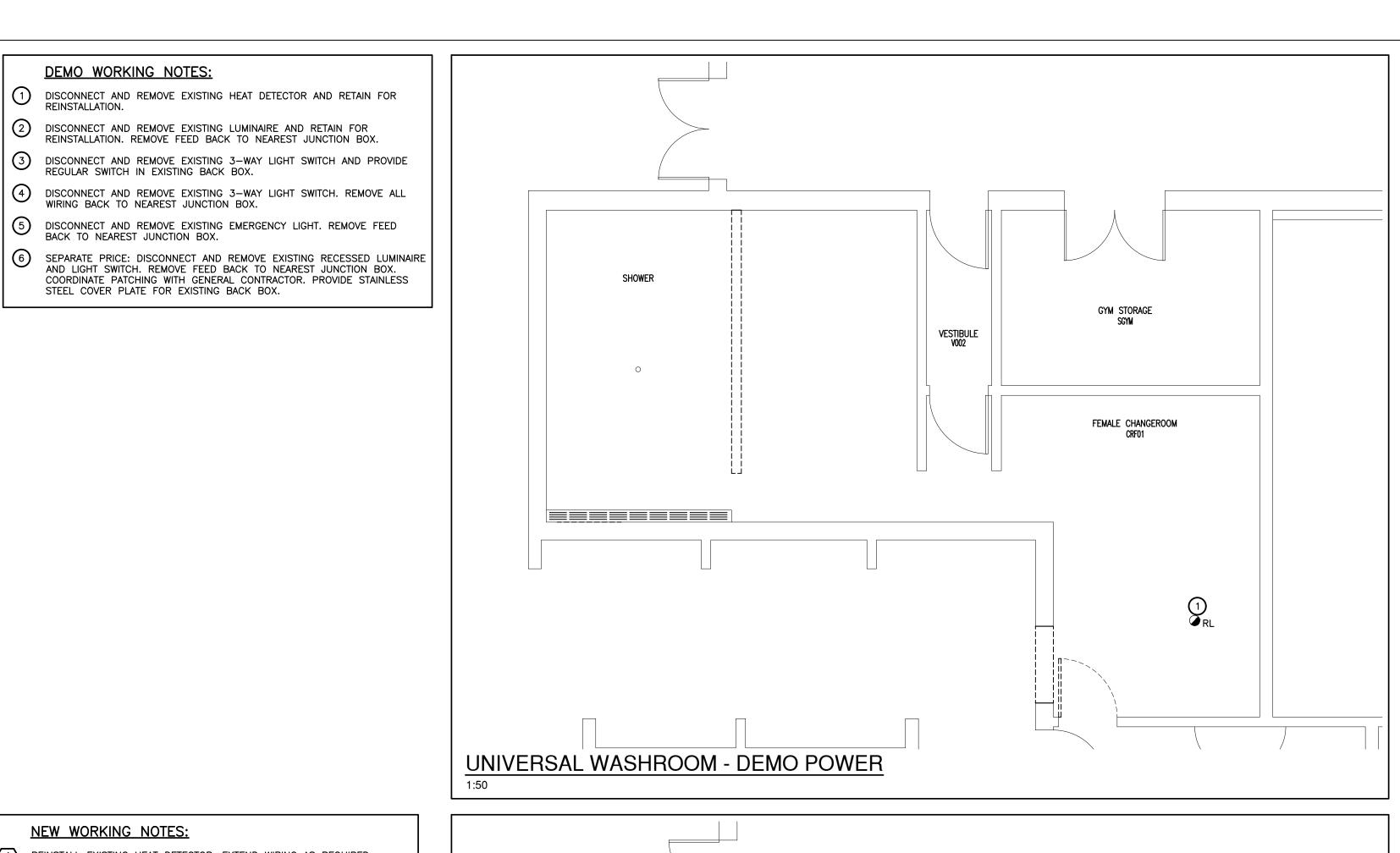
JMORTON

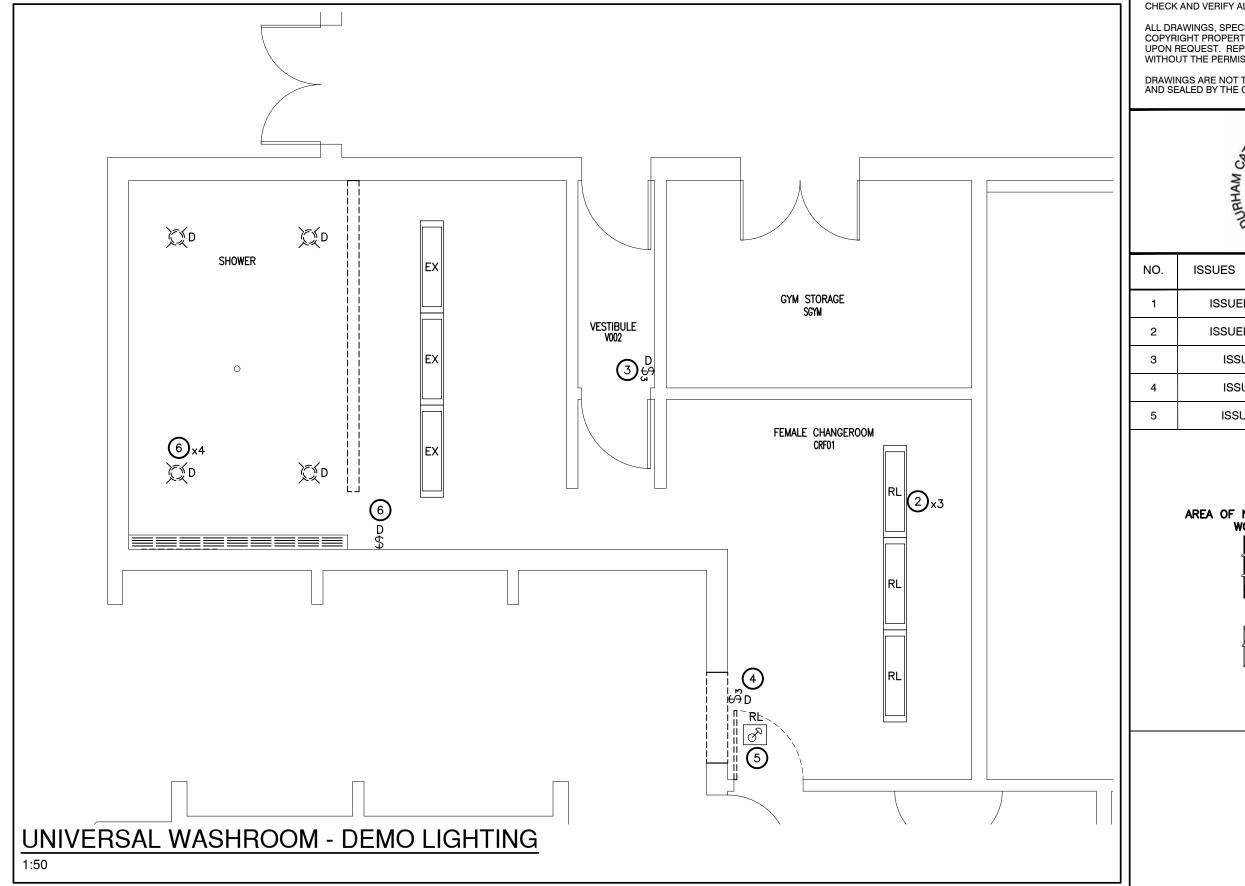
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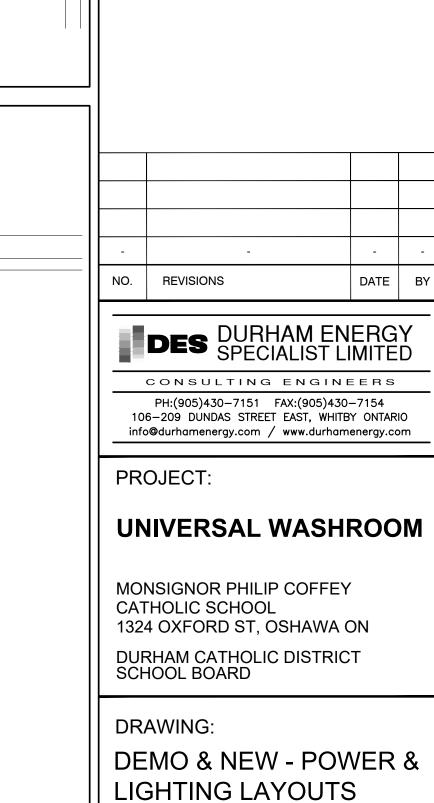
PROJECT NO:

e-mail: bba@bba-archeng.com

DRAWING NO: **S201**







BARRY BRYAN

ASSOCIATES

Architects Engineers Project Managers

L1N 0G5

PROJECT NO:

250 Water Street Suite 201 Whitby, Ontario

Tel: (905) 666-5252

Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

21125

DESIGN BY:

DRAWN BY:

SCALE:

21-539

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FEBRUAURY 2022

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KEY PLAN

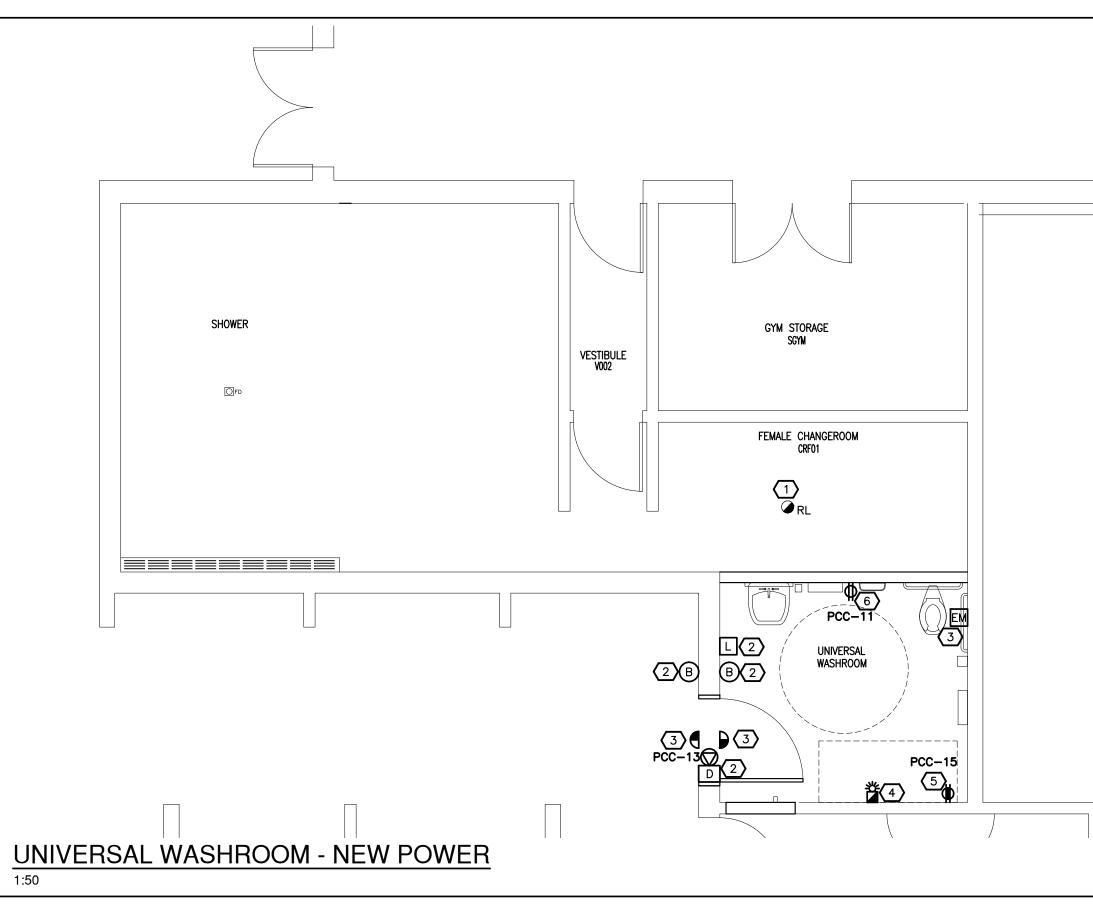
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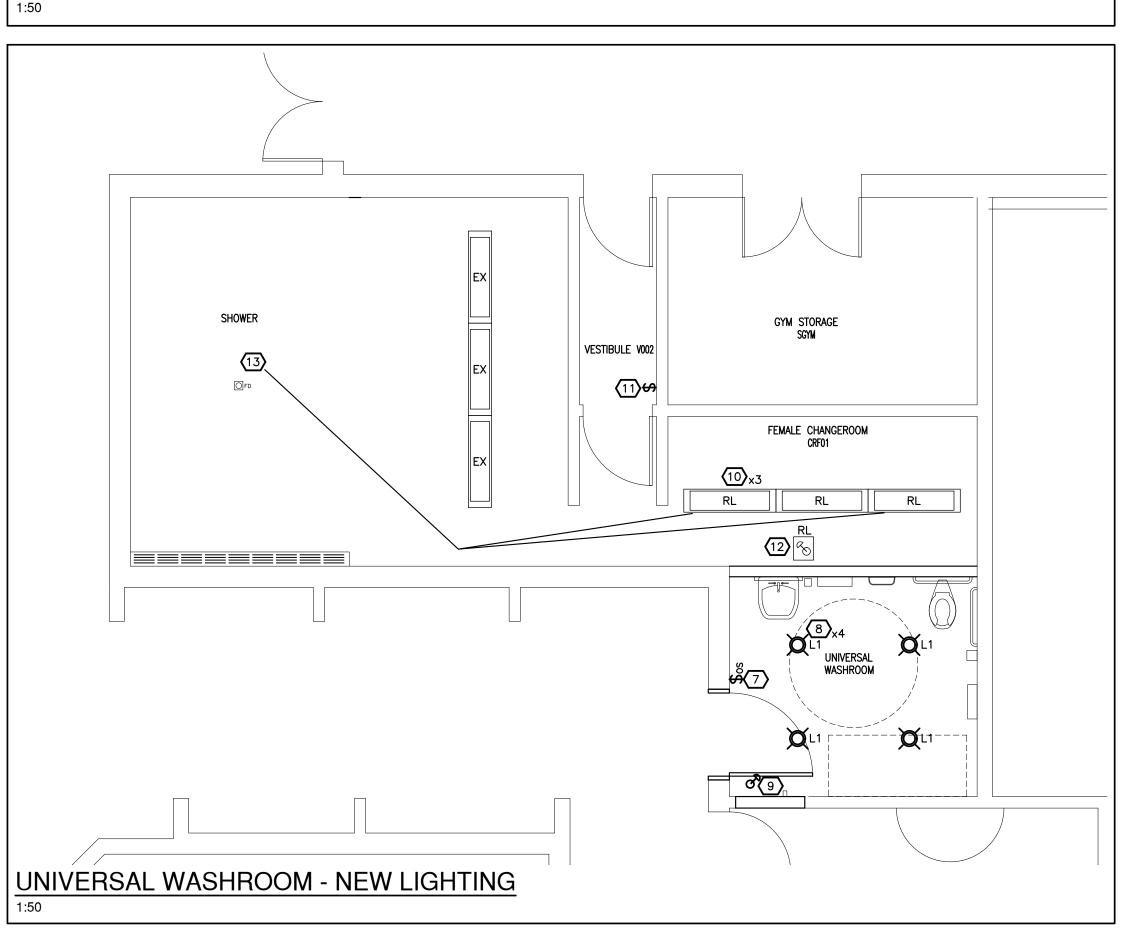
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NEW WORKING NOTES:

- REINSTALL EXISTING HEAT DETECTOR. EXTEND WIRING AS REQUIRED. PROVIDE 120V POWER FOR BARRIER FREE OPERATORS AND PUSH-TO-LOCK WHERE SHOWN C/W BACK BOXES, CONDUIT AND LOW VOLTAGE WIRING. CENTER LINE HEIGHT FOR ROUGH-IN WALL BOXES FOR PUSH BUTTON TO BE 900mm(35") AND 1100mm(43") AFF, MINIMUM 600mm(23.7") AND MAXIMUM 1500mm(59") FROM LEADING EDGE OF DOOR (WHEN OPEN). COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR/ARCHITECTURAL ELEVATIONS AND EXACT BACK BOX REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE POWER FROM PANEL PCC. PROVIDE NEW 15A/1P BREAKER AT CIRCUIT
- 3 EMERGENCY RESPONSE SYSTEM COMPLETE WITH EMERGENCY PUSH BUTTON AND AUDIBLE/VISUAL ALARM MOUNTED INSIDE AND OUTSIDE WASHROOM BY OTHERS. PROVIDE BACK BOX FOR DEVICES AS NOTED COMPLETE WITH CONDUIT & WIRING TO DOOR CONTROLLER MOUNTED IN CEILING SPACE. PROVIDE 120V FROM DOOR OPERATOR CIRCUIT. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR AND BACK BOX REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO ROUGH-IN.
- 4 PROVIDE NEW FIRE ALARM INITIATING DEVICE. PROVIDE NEW DEDICATED CIRCUIT FROM FACP.
- 5 PROVIDE NEW 20A RECEPTACLE C/W NEW POWER FEED FROM PANEL PCC. PROVIDE NEW 20A/1P BREAKER AT CIRCUIT NOTED.
- 6 PROVIDE NEW 15A RECEPTACLE MOUNTED IN CEILING SPACE FOR TSP C/W NEW POWER FEED FROM PANEL PCC. PROVIDE NEW 15A/1P BREAKER AT CIRCUIT NOTED. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE NEW SWITCH PLATE OCCUPANCY SENSOR FOR LIGHTING CONTROL. TIE INTO EXISTING LIGHTING CIRCUIT.
- 8 PROVIDE NEW LUMINAIRE. TIE INTO EXISTING LIGHTING CIRCUIT. 9 PROVIDE NEW EMERGENCY LIGHTING DEVICE. TIE INTO EXISTING EMERGENCY
- LIGHTING CIRCUIT.
- REINSTALL EXISTING LUMINAIRES. EXTEND POWER FEED FROM JUNCTION BOX AS REQUIRED.
- PROVIDE NEW LIGHT SWITCH IN EXISTING BACK BOX FOR LIGHTING
- REINSTALL EXISTING EMERGENCY LIGHT. EXTEND EMERGENCY LIGHTING POWER FEED AS REQUIRED.
- SEPARATE PRICE: REINSTALL EXISTING LUMINAIRES TO SUIT. TIE INTO EXISTING LIGHTING CIRCUIT AND CONTROL FROM EXISTING SWITCH.





FIRE ALARM SCOPE OF WORK:

- EXISTING FIRE ALARM CONTROL PANEL IS EDWARDS EST.
- FIRE ALARM MANUFACTURER TO ATTEND SITE PRIOR TO PRICING TO REVIEW EXISTING SYSTEM FOR CONFORMANCE WITH NEW PROPOSED DEVICES. FIRE ALARM MANUFACTURER TO INCLUDE FOR ALL LABOUR AND COMPONENTS REQUIRED TO CONNECT EXISTING DEVICES TO EXISTING FIRE ALARM CONTROL PANEL IN CONFORMANCE WITH ALL APPLICABLE CODES. ALLOW FOR WIRING BACK TO FIRE ALARM CONTROL PANEL TO SUPPORT NEW ZONE IF REQUIRED.
- INSTALL NEW CONVENTIONAL/ADDRESSABLE DEVICES OF TYPE AS INDICATED
- ADD HORN/STROBES AND STROBES AS INDICATED. FIRE ALARM MANUFACTURER TO CONFIRM CIRCUIT LOADING PRIOR TO PRICING IF CONNECTING NEW DEVICES TO EXISTING CIRCUITS.
- UPDATE EXISTING PASSIVE GRAPHIC TO REFLECT BUILDING LAYOUT CHANGES. OBTAIN THE SERVICES OF THE FIRE ALARM MANUFACTURER FOR ANY PROGRAMMING CHANGES.
- 3. ALL DEVICE AND SIGNAL CIRCUITS TO BE WIRED TO MATCH EXISTING.
- NEW END OF LINE RESISTORS TO BE MOUNTED BY FIRE ALARM CONTROL
- PROVIDE ISOLATOR MODULES AT ALL FIRE SEPARATIONS INCLUDING BUT NOT LIMITED TO STAIRWELLS AND ELEVATOR SHAFTS. LOCATION AND QUANTITY OF ISOLATORS TO BE COORDINATED WITH MANUFACTURER.
- PAINT ALL FIRE ALARM JUNCTION BOXES RED. IDENTIFY EACH
- JUNCTION BOX AS EITHER SIGNAL OR INITIATING CIRCUIT. .2 LABEL ALL POWER JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER.
- .3 BREAKER FOR FACP AND FIRE COMMUNICATOR SHALL BE LOCKED AND PAINTED RED.
- 10. TEST AND VERIFY THE FIRE ALARM SYSTEM IN CONFORMANCE WITH CAN/ULC-S537-M "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS" TO ENSURE SATISFACTORY OPERATION.
- 1. PERFORM AUDIBILITY TESTS AS PER ONTARIO FIRE CODE (MINIMUM 65DBA, MAXIMUM 100DBA THROUGHOUT) AND PROVIDE REPORT TO THE CONSULTANT. ALL SPACES WITHIN THE PROJECT AREA MUST BE TESTED. DOORS SHALL BE CLOSED DURING TESTING. CONTRACTOR AND VERIFIER TO ALLOW FOR SYSTEM MODIFICATIONS AND REVERIFICATIONS AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS.
- 12. PROVIDE VERIFICATION REPORT AND AUDIBILITY TESTS TO THE CONSULTANT FOR REVIEW. SUBMIT FINAL COPY OF REPORT TO THE BUILDING DEPARTMENT/FIRE PREVENTION.

GENERAL NOTES:

- THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
- 2. OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS. 3. OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT
- 4. THE ELECTRICAL CONTRACTOR AND SUB-TRADES SHALL ATTEND ALL SITE MEETINGS UNLESS OTHERWISE APPROVED.
- PROVIDE ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE, BUT NOT LIMITED TO, VERIFYING VOLTAGE, RATING, DIMENSIONS AND CLEARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO INFO@DURHAMENERGY.COM.
- . INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- MAINTAIN RECORD DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
- 8. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.

PRIOR TO ANY WORK BEING DONE.

- 9. REMOVE ALL REDUNDANT EQUIPMENT AND MATERIALS FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
- 10. ALL CUTTING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR.
- 11. ALL CONDUIT SHALL BE CONCEALED AND ALL DEVICES RECESSED. ANY SURFACE MOUNTED CONDUIT MUST BE APPROVED BY OWNER OR CONSULTANT PRIOR TO INSTALLATION.
- 12. MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
- 13. PROVIDE ACCESS DOORS WHERE REQUIRED TO MAINTAIN ACCESS TO DEVICES, EQUIPMENT, JUNCTION BOXES ETC. COORDINATE AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. CONTRACTOR TO INSTALL WHERE NOT COORDINATED PROPERLY WITH GENERAL CONTRACTOR.
- 14. TAG ALL EQUIPMENT (INCLUDING MECHANICAL EQUIPMENT), EQUIPMENT DISCONNECTS/STARTERS AND PANELS WITH LAMACOID NAMEPLATES. PANEL NAMEPLATE SHALL STATE PANEL DESIGNATION, VOLTAGE, AMPERAGE AND SOURCE OF FEEDER. EQUIPMENT SHALL STATE PANEL AND CIRCUIT NUMBER. PROVIDE TYPED PANEL SCHEDULES IN ALL PANELS. CONFIRM WITH CONSULTANT IF UNCLEAR.
- 15. LABEL ALL RECEPTACLES AND JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER. USE BLACK MARKER ON CONCEALED JUNCTION BOXES AND CLEAR ADHESIVE LABELS WITH BLACK WRITING ON RECEPTACLES. PAINT ALL JUNCTION BOXES RED FOR FIRE ALARM.
- 16. THE CONTRACTOR SHALL ARRANGE FOR FIELD REVIEWS BY THE CONSULTANT PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR REVIEW AT THE DIRECTION OF THE
- 17. PERFORM TESTING OF ALL SYSTEMS AS REQUIRED BY CODE AND THE CONSULTANT.
- 18. ASSIST WITH START-UP AND COMMISSIONING OF ALL SYSTEMS AS REQUIRED. 19. INSTRUCT AND TRAIN THE OWNER ON PROPER OPERATION OF THE SYSTEM.
- 20. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATED ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD
- 21. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 22. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED AND UNTIL ALL DES FIELD REVIEW REPORTS HAVE BEEN SIGNED AND RETURNED TO DES ALONG WITH PICTURES AS REQUESTED BY CONSULTANT.
- 23. PROVIDE ONE(1) COPY VIA EMAIL IN PDF FORMAT OF WARRANTY LETTER, ESA CERTIFICATE OF CLEARANCE, FIRE ALARM VERIFICATION REPORT, EMERGENCY LIGHTING TEST REPORT AND AS BUILT DRAWINGS. AS BUILT DRAWINGS SHALL INCLUDE COMPLETE SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THIS INFORMATION IS SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.

EMT vs. LIQUIDTIGHT vs. FLEXIBLE CABLE

EMT (ELECTRICAL METALLIC TUBING) MUST BE USED IN THE FOLLOWING INDOOR

- ALL EXPOSED AREAS (USE WIREMOLD ON EXPOSED WALLS IN FINISHED AREAS WHERE EXPOSED WIRING HAS BEEN APPROVED). 2. T-BAR CEILING SPACES.
 - VERTICAL DROPS TO DEVICES IN NEW WALLS (I.E. SWITCHES RECEPTACLES, DATA/VOICE.)

LIQUIDTIGHT MUST BE USED IN THE FOLLOWING INDOOR AND OUTDOOR

- LAST 5' (1.5m) FOR FINAL CONNECTION TO INDOOR MECHANICAL EQUIPMENT. LIQUID TIGHT CONDUIT IN CEILING SPACE MUST BE PLENUM RATED.
- 2. ALL OUTDOOR WIRING.

FLEXIBLE CABLE IS ONLY ACCEPTABLE IN THE FOLLOWING INDOOR APPLICATIONS:

- 1. LAST 5' (1.5m) FOR FINAL CONNECTION TO LIGHTING AND SMALL EQUIPMENT/COMPONENTS IN CEILING SPACES. DAISY CHAIN OF LUMINAIRES
- 2. LAST 5'(1,5m) FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT LOCATED IN CEILING SPACE OR ON ROOF.
- 3. FISHED DOWN IN EXISTING WALL(S). FLEXIBLE CABLE IN NOT PERMITTED IN NEW WALL(S).

ELECTRICAL NOTES:

- 1. ALL WORK SHALL CONFORM TO ESA REQUIREMENTS.
- 2. PROVIDE CHAINS FOR ALL LIGHT FIXTURES. CHAINS SHALL BE PROVIDED AT ALL FOUR CORNERS.
- BOND ALL METALLIC WATER, DRAIN AND GAS PIPING AS PER ESA REQUIREMENTS.
- 4. PROVIDE JUNCTION BOXES C/W COVERPLATES AS REQUIRED. 5. COORDINATE INSTALLATION WITH ALL OTHER TRADES.

BASED ON THE NUMBER OF CONDUCTORS.

- REFER TO "EMT (ELECTRICAL METALLIC TUBING) vs. LIQUIDTIGHT vs. FLEXIBLE CABLE" FOR ACCEPTABLE USE OF EACH.
- EMT AND BOXES SHALL BE SIZED ACCORDING TO CODE REQUIREMENT
- 8. FOR EMT AND/OR CONDUITS BENDS GREATER THAN OR EQUAL TO 270°, A
- PULL BOX MUST BE PROVIDED.
- ALL EMT (ELECTRICAL METALLIC TUBING) SHALL BE FIRMLY FASTENED IN PLACE SO AS TO SUPPORT THE WEIGHT OF CONDUIT AND TO PREVENT ANY STRAIN OR STRESS AT TERMINATIONS ACCORDING TO ELECTRICAL CODE
- 10. CONTRACTORS SHALL ATTEMPT TO FISH NEW FEEDS DOWN EXISTING WALLS WHERE THIS IS NOT POSSIBLE (ONLY), SURFACE INSTALLATION IS ACCEPTABLE ON EXISTING BLOCK WALLS IN FINISHED AREAS AS FOLLOWS: BOXES SHALL BE SHALLOW WIRE MOLD BOX WITH NO KNOCKOUTS. .2 CONDUIT SHALL BE WIRE MOLD. COLOUR TO BE WHITE.
- 1. CONCEAL ALL EMT (ELECTRICAL METALLIC TUBING) AND COMPONENTS IN CEILING SPACE OR WALLS. RUN TIGHT TO ROOF DECK OR FLOOR ABOVE WHERE CEILING IS EXPOSED. RUN TIGHT TO WALL OR COLUMN WHERE WALLS ARE EXPOSED.
- 12. WHERE EMT RUNS HORIZONTALLY ACROSS WALL STUDS, NOTCHES SHOULD BE CUT AND PROTECTED BY STEEL PLATES.
- 13. MOUNTING HEIGHTS MOUNT NEW CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO, P.A. CALL SWITCHES, OPERATORS, LIGHT SWITCHES OR SWITCH PLATE OCCUPANCY SENSORS NO LESS THAN 36" (900mm) A.F.F TO BOTTOM OF BOX AND 43"(1100mm) MAXIMUM A.F.F TO TOP OF BOX. UNLESS OTHERWISE NOTED.
- .2 MOUNT NEW RECEPTACLES 16" (400mm) A.F.F. UNLESS OTHERWISE
- 14. RECEPTACLES LOCATED WITHIN 5'(1.5m) OF A DAMP OR WET LOCATION SHALL BE GROUND FAULT CIRCUIT INTÉRRUPTER TYPE.
- 15. CONTRACTOR TO ALLOW FOR THE RELOCATION OF ANY RECEPTACLE OR DEVICE/EQUIPMENT CONNECTION WITHIN 10' OF LOCATION SHOWN AT NO
- 16. DEVICE COVER PLATES SHALL BE STAINLESS STEEL IN ALL AREAS.
- 17. BRANCH CIRCUIT BREAKER AMPERE INTERRUPTING CAPACITY TO MATCH BUS RATING. PROVIDE 10% SPARE FOR FUTURE.
- 18. ALL CIRCUITS SHALL CONTAIN SEPARATE PHASE, NEUTRAL AND GROUND CONDUCTORS. SHARED NEUTRALS IS NOT PERMITTED.
- 19. MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS TO BE 3%. CONDUCTORS SHALL BE OVERSIZED TO SUIT VOLTAGE DROP WHERE APPLICABLE.
- 20. CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED. CONDUCTORS IN RACEWAYS SHALL BE T75 NYLON (T90 ACCEPTABLE IF DERATED AS PER OESC). ALL CONDUCTORS SHALL BE MINIMUM #10AWG FOR EMERGENCY BATTERY CIRCUITS AND EXTERIOR LIGHTING, #14AWG FOR CONTROL WIRING AND MINIMUM #12AWG FOR ALL OTHER APPLICATIONS.
- 21. ALL WIRE SIZES INDICATED ON DRAWINGS ARE BASED ON A 75°C TERMINATION TEMPERATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TERMINATION TEMPERATURE OF EACH DEVICE AND MODIFY THE WIRE SIZE TO SUIT OR NOTIFY ENGINEER FOR DIRECTION.
- 22. IDENTIFY EACH WIRE AND CABLE AT EVERY TERMINATION POINT. IDENTIFY ALL EMT AND/OR CONDUITS WITH "NEAT" COLOUR BANDS AT NO MORE THAN 25'(7.5m) INTERVALS AND ON BOTH SIDES OF WALLS & FLOOR.
- 23. NON-CURRENT CARRYING METAL PARTS FOR FIXED EQUIPMENT SHALL BE BONDED TO GROUND. INSTALL SEPARATE BONDING IN LIQUIDTIGHT CONDUITS.
- 24. FIRE STOP ALL EXISTING AND NEW CONDUIT THROUGH FIRE SEPARATIONS.
- 25. ARRANGE FOR ESA INSTALLATION PERMIT AND INSPECTION AND FORWARD A COPY OF THE ESA CERTIFICATE TO THE ENGINEER UPON ACCEPTANCE (INCLUDING FIRE ALARM LISTED AS A SEPARATE ITEM). ARRANGE AND PAY FOR OCCUPANCY PERMIT IF FINAL INSPECTION CANNOT BE SCHEDULED BY COMPLETION DATE SET FORTH IN TENDER DOCUMENTS.

	EMERGENCY LIGHTING SCHEDULE				
TAG	DESCRIPTION	MAKE / MODEL			
(gr)	EXISTING CEILING MOUNTED REMOTE SINGLE HEAD, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EXISTING			
## • •	CEILING MOUNTED REMOTE SINGLE HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EQUAL TO LUMACELL MQM-LD7 (OR VOLTAGE TO MATCH EXISTING BATTERY UNITS)			

APPROVED ALTERNATES: BEGHELLI, EMERGI-LITE, AIMLITE, STAN PRO

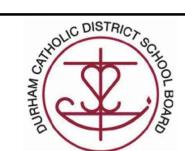
- 1. ## DENOTES BATTERY UNIT. 'DS' DENOTES DOUBLE SIDED.
- ALLOW 20% SAFETY ON BACK-UP BATTERY PACK SIZING. 4. ALL UNITS TO BE CSA CERTIFIED.
- . EMERGENCY LIGHTING LIGHT LEVELS ARE TO BE TAKEN IN FOOT CANDLES BY THE CONTRACTOR AFTER PROJECT COMPLETION. ADVISE CONSULTANT OF TEST DATE FOR WITNESS AND OWN READINGS.

	LIGHT FIXTURE SCHEDULE				
TAG	DESCRIPTION	MAKE / MODEL	ALTERNATE		
∭L1	RECESSED CEILING MOUNTED DOWN LIGHT TO BE REMOVED	EXISTING	N/A		
[RL]	EXISTING SURFACE MOUNTED 1'x4' FLUORESCENT LIGHT FIXTURE TO BE RELOCATED	EXISTING	N/A		
X L1	INDOOR RECESSED CEILING MOUNTED 4" ROUND DOWNLIGHT. 700 LUMENS, 80CRI, 4000K, 120V WET LOCATION RATED	SIGNIFY FD4R4CCT	LITHONIA CREE LIGHTING		
\$ \$3	LIGHT SWITCH - '3' DENOTES 3-WAY	HUBBELL 1200 SERIES (120V)	HUBBELL LEGRAND		
\$os	SWITCH PLATE MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH BUTTON, WHITE, 120V	LEVITON ODS10-IDW	HUBBELL LEGRAND ACUITY CONTROLS		

	POWER LEGEND				
TAG	TAG DESCRIPTION MAKE/MODEL				
ф	15A 120V 1PH GROUNDED DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR15WHI OR EQUAL			
ф	# 20A 120V 1PH GROUNDED DUPLEX RECEPTACLE C/W HUBBELL BR20WHI OR EQUAL STAINLESS STEEL COVER PLATE				
	120V 1PH GROUNDED DIRECT EQUIPMENT CONNECTION				
D	POWER DOOR OPERATOR BY GENERAL CONTRACTOR. PROVIDE 120V POWER TO DOOR OPERATOR AND INTERLOCK WIRING BETWEEN OPERATOR AND WALL PUSH BUTTON				
ЕМ	EMERGENCY/911 CALL BUTTON. <u>SUPPLIED</u> AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX, CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.				
L	PUSH TO LOCK. <u>SUPPLIED</u> AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.				
Þ	EMERGENCY AUDIBLE/VISUAL DEVICE. <u>SUPPLIED</u> AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.				
B	"PUSH TO OPEN" FOR BARRIER FREE OR REGULAR DOOR CONTROL BY GENERAL CONTRACTOR. PROVIDE CONCEALED CONDUIT UP WALL TO DOOR OPERATOR C/W INTERLOCK WIRING TO DOOR OPERATOR.				

	FIRE	ALARM	LEGEND	
	EXISTING HEAT	DETECTOR		
⊑ ╬ '##' cd			TES STROBE CANDELA THERWISE NOTED.	RATING.

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4	ISSUED FOR PERMIT	APR 7 2022	DES
5	ISSUED FOR TENDER	APR 8 2022	DES

NO. REVISIONS **DES** DURHAM ENERGY SPECIALIST LIMITED CONSULTING ENGINEERS PH:(905)430-7151 FAX:(905)430-7154 106-209 DUNDAS STREET EAST, WHITBY ONTARIO info@durhamenergy.com / www.durhamenergy.com PROJECT: **UNIVERSAL WASHROOM** MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON

DURHAM CATHOLIC DISTRICT SCHOOL BOARD

DRAWING:

LEGENDS AND NOTES

DATE BY



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201

L1N 0G5

CHECKED BY: Whitby, Ontario FEBRUAURY 2022 SCALE: Tel: (905) 666-5252 NTS Fax: (905) 666-5256 e-mail: bba@bba-archeng.com 21-539

DESIGN BY:

DRAWN BY:

PROJECT NO: 21125

DRAWING NO:

DOC CONTROL:

% COMPLETE:

DEMO PLUMBING WORKING NOTES:

- 1) REMOVE EXISTING 250 DHW PIPING AS REQUIRED TO SUIT NEW PIPE
- 2 REMOVE EXISTING 320 DCW PIPING AS REQUIRED TO SUIT NEW PIPE CONNECTION.
- 3 REMOVE EXISTING 1000 UNDERGROUND SANITARY PIPING AS REQUIRED TO SUIT NEW PIPE CONNECTION.
- REMOVE EXISTING SHOWER C/W ASSOCIATED DCW & DTW PIPING. CAP PIPING ABOVE CEILING C/W BALL VALVE. PROVIDE ACCESS DOOR FOR CONCEALED VALVES. (OPTIONAL PRICE No.1)
- 5) REMOVE EXISTING SHOWER FLOOR DRAIN, CAP AND ABANDON BELOW
- GRADE. (OPTIONAL PRICE No.1) 6 SUPPORT DOMESTIC WATER PIPING AS REQUIRED TO SUIT THE REMOVAL

NEW PLUMBING WORKING NOTES:

- 1 PROVIDE NEW 130 DHW & DCW DOWN IN WALL TO LAVATORY. CONNECT DCW & DHW TO TMV AND 130 TO FAUCET.
- PROVIDE NEW 750 UNDERGROUND SANITARY AND CONNECT TO EXISTING.
 EXACT LOCATION AND DEPTH OF EXISTING SANITARY TO BE CONFIRMED ON
- 3) PROVIDE NEW 320 DOWN IN WALL TO UNDERGROUND SANITARY.
- PROVIDE NEW ISOLATION VALVES FOR NEW 250 DCW & 130 DHW.
- 5) PROVIDE NEW FLOOR DRAIN C/W TRAP SEAL PRIMER.
- PROVIDE NEW MECHANICAL TRAP SEAL PRIMER AND PIPE TO FLOOR DRAIN.
- PROVIDE NEW PIPE HANGERS TO RE-SUPPORT DOMESTIC WATER PIPING AFTER THE REMOVAL OF WALL. PROVIDE INSULATION AT LOCATION OF REMOVED WALL
- 8 PROVIDE BALL VALVE AND CAP ON EXISTING 250 DTW & DCW FROM REMOVED SHOWER (OPTIONAL PRICE No.1)

DEMO HVAC WORKING NOTES:

- 1 REMOVE EXISTING 300x300 EXHAUST GRILLE.
- REMOVE EXISTING CONVECTOR C/W PIPING VALVES AND ACCESSORIES. REMOVE PIPING BACK TO MAINS.
- 3 SUPPORT HEATING PIPING TO AS REQUIRED SUIT THE REMOVAL OF WALL.

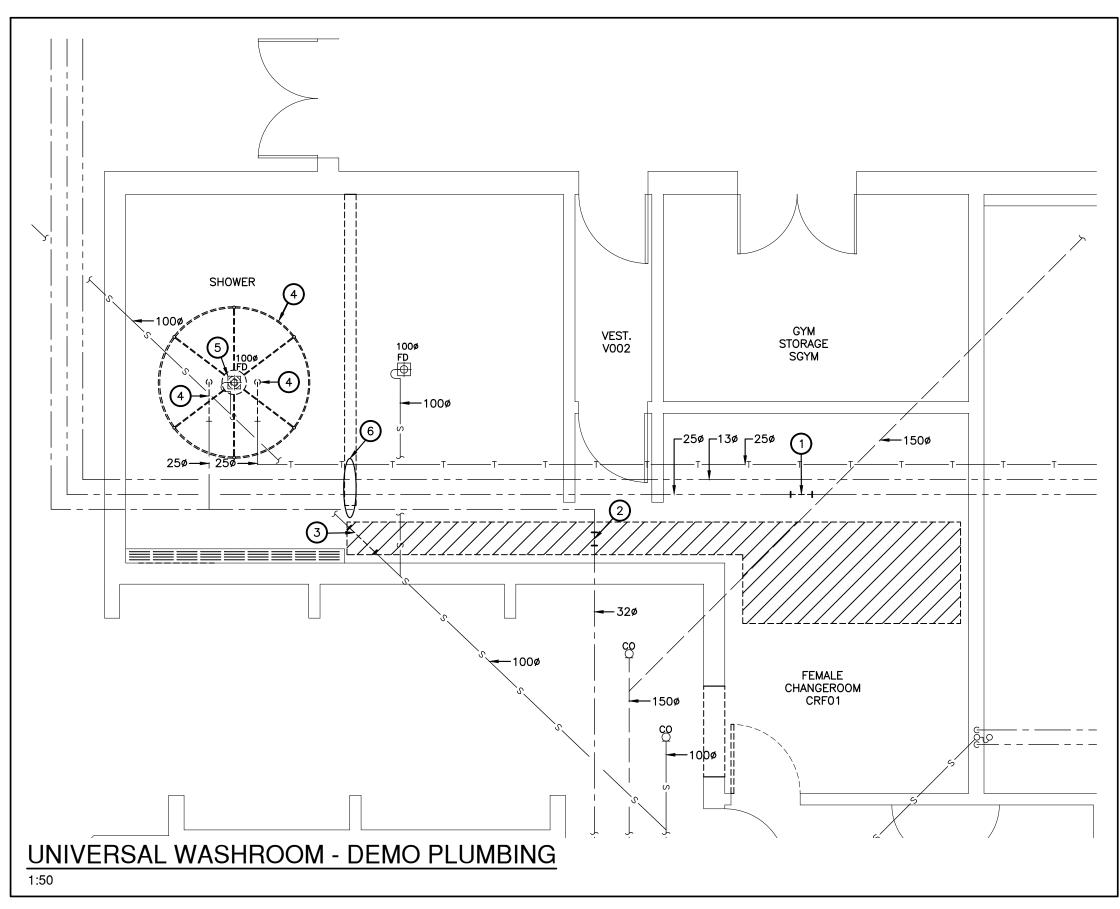
NEW HVAC WORKING NOTES:

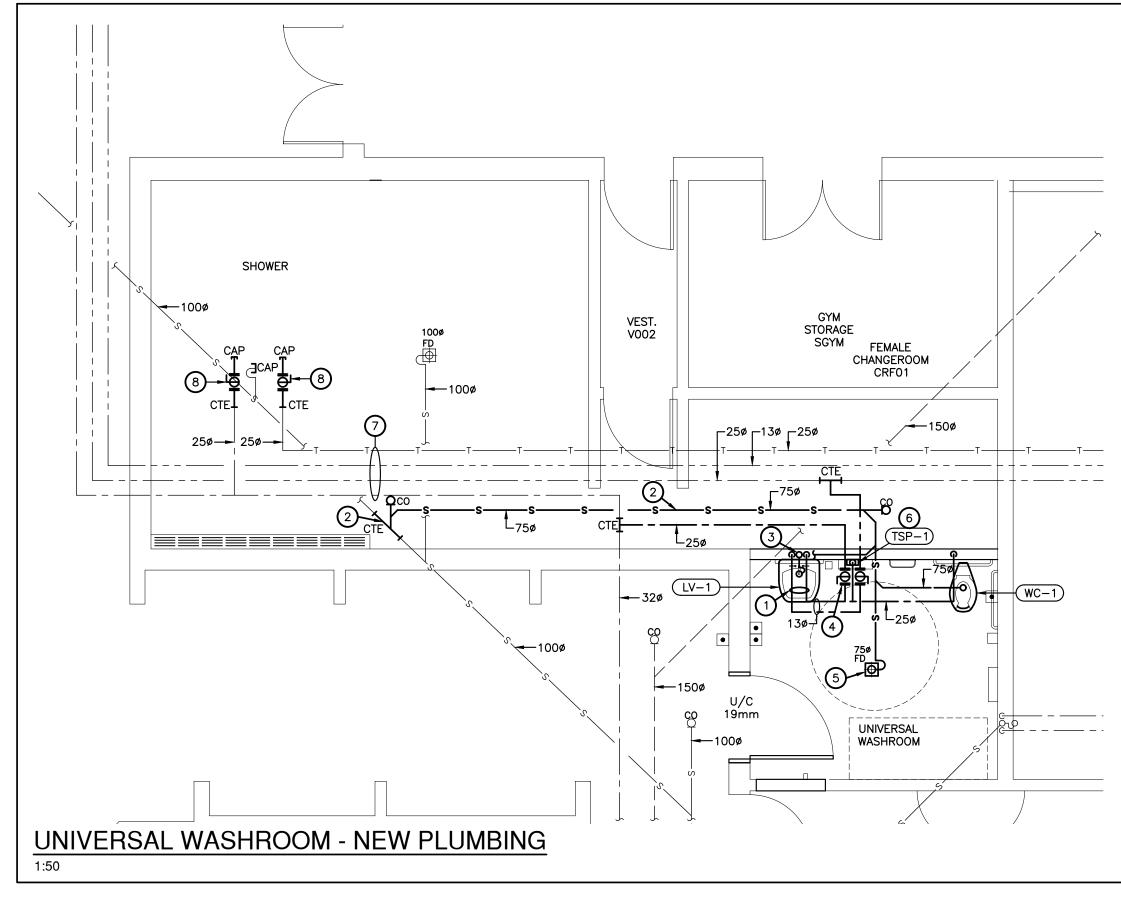
- 1 PROVIDE NEW 200x200 EXHAUST GRILLE C/W DAMPER ON RISER.
- PROVIDE BALL VALVE AND CAP ON EXISTING 190 HS & HR FROM REMOVED CONVECTOR.
- PROVIDE NEW PIPE HANGERS TO RE-SUPPORT HEATING PIPING AFTER REMOVAL OF WALL. PROVIDE INSULATION AT LOCATION OF REMOVED WALL.
- PROVIDE NEW 200X150 ACOUSTICALLY LINED TRANSFER DUCT C/W FIRE DAMPER AT WALL PENETRATION. REFER TO DETAILS.

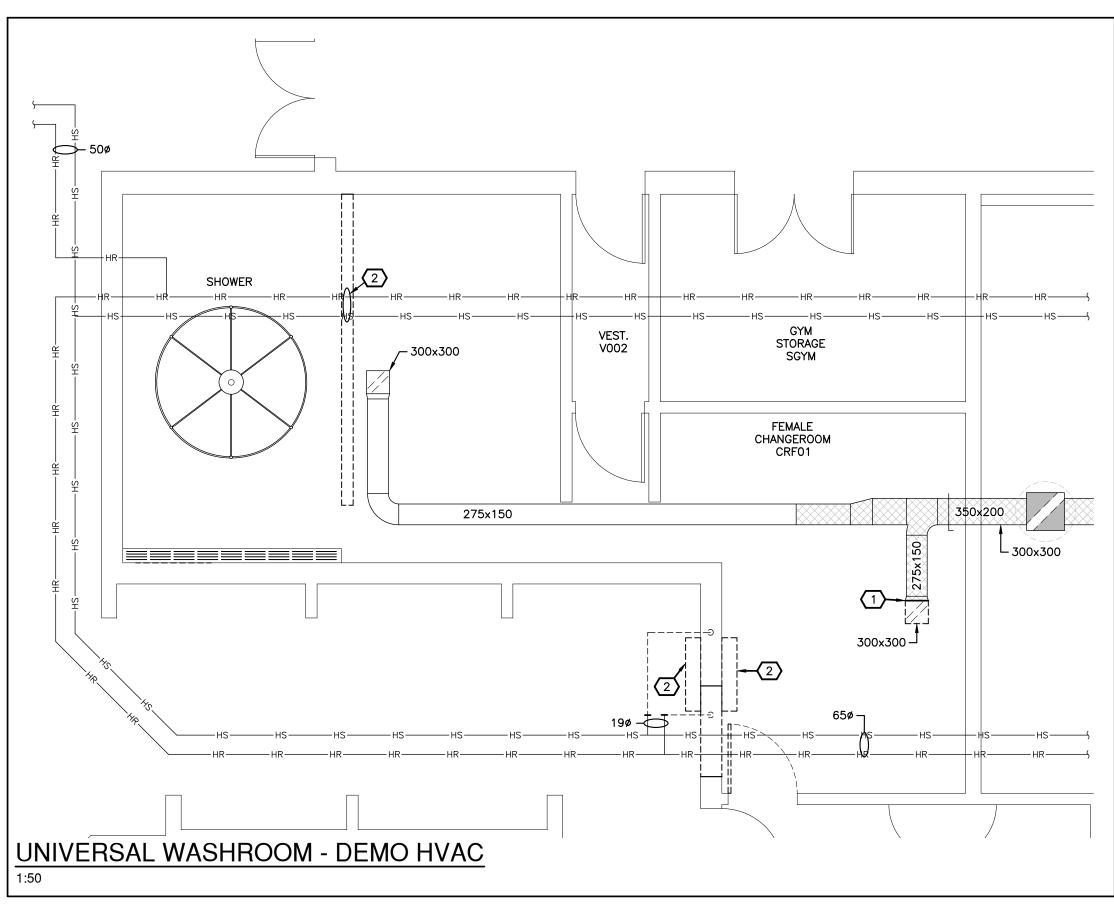
GENERAL NOTES:

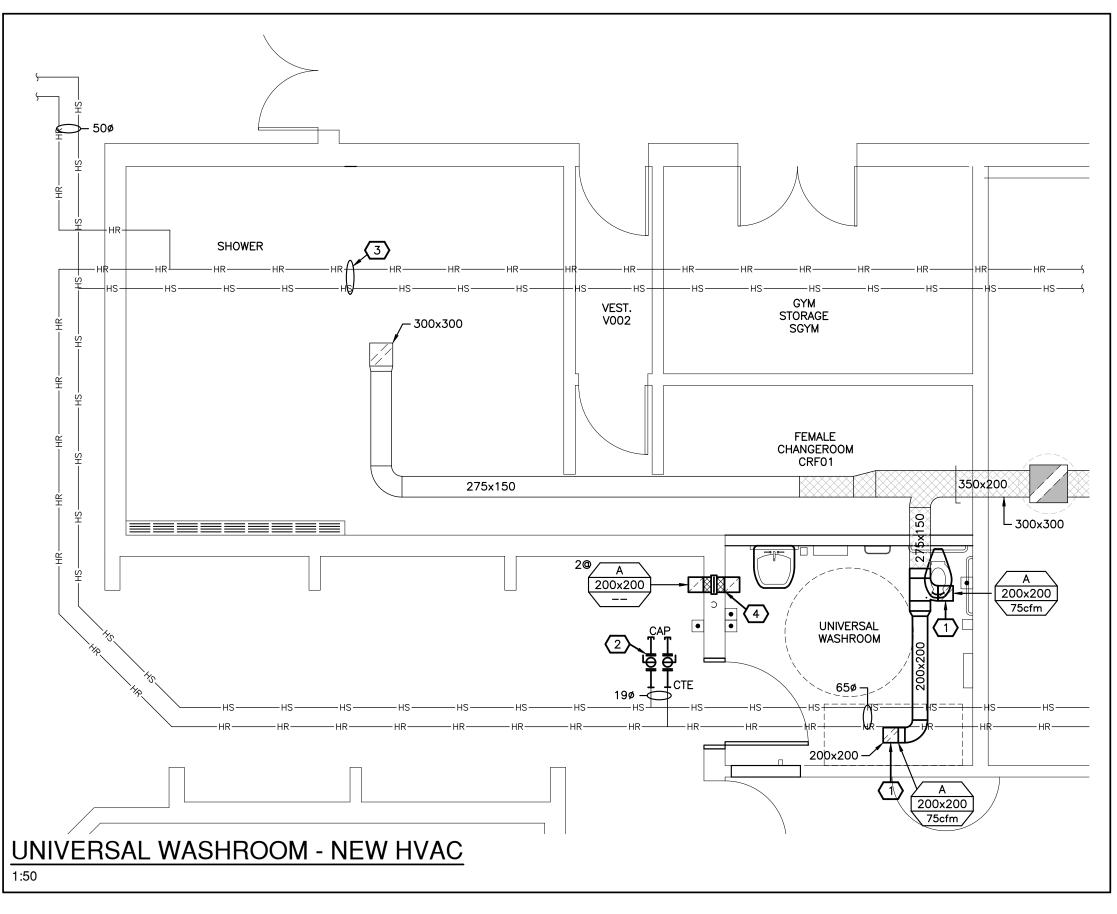
- 1. OPTIONAL PRICE No.1: SCOPE RELATED TO REMOVAL OF SHOWER SHALL BE CONSIDERED UNDER OPTIONAL PRICE.
- THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 3. SCOPE/CAMERA EXISTING UNDERGROUND SANITARY PIPING THROUGH WORK AREA TO CONFIRM CONDITION OF PIPE, ROUTING AND INVERTS. SUBMIT REPORT AND VIDEO ON USB.
- 4. SCAN FLOOR PRIOR TO FLOOR CUTS AND UNDERGROUND PIPING INSTALLATION.
- 5. DISCONNECT AND REMOVE ALL REDUNDANT EQUIPMENT, FIXTURES, DUCTWORK, PIPING AND OTHER REDUNDANT SERVICES THROUGHOUT AREA
- ABANDON ANY REDUNDANT UNDERGROUND SERVICES AND CAP FLUSH WITH FLOOR. REMOVE UNDERGROUND SERVICES WHERE REQUIRED TO SUIT NEW
- 7. REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND
- 8. ANY REDUNDANT RISERS CAN REMAIN WITHIN EXISTING WALLS (WHERE WALLS ARE SCHEDULED TO REMAIN) BUT SERVICES SHALL BE CUT AND CAPPED WITHIN WALL SO FACE OF WALL CAN BE PATCHED AND FINISHED
- 9. MAINTAIN VENT PIPING FOR REUSE WHERE POSSIBLE AND REMOVE ANY REDUNDANT.
- 10. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
- 11. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICÉS ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
- 12. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
- 13. COVER ALL FLOOR DRAINS DURING CONSTRUCTION TO PREVENT DEBRIS FROM FALLING IN DRAINS OR GROUT BEING POURED DOWN DRAINS.
- 14. PROVIDE NEW PLUMBING VENTS THROUGH ROOF AS REQUIRED OR TIE INTO EXISTING WHERE POSSIBLE.
- 15. INSULATE AND LABEL ALL NEW PIPING WITHIN CEILING SPACE IN AREA OF
- 16. FIRE STOP ALL EXISTING AND NEW PIPING THROUGH RATED WALLS IN AREA
- 17. SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE DRYWALL CEILING AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- 18. LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.

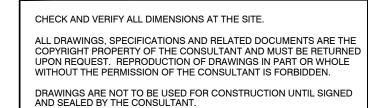
TYPICAL PLUMBING PIPE SIZING					
	DCW	DHW	DTW	SANITARY	VENT
WC (FLUSH VALVE)	25ø			75ø	38ø
LAVATORY	13ø	13ø	13ø (TMV)	32ø	32ø
75ø FD				75ø	38ø
PROVIDE ISOLATION VALVES AT ALL FIXTURES					





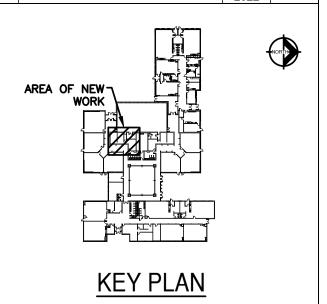


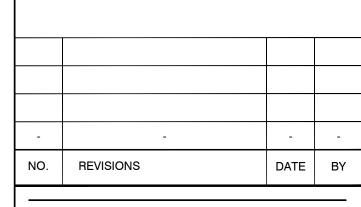






NO.	ISSUES	DATE	ВҮ
1	ISSUED FOR 30% REVIEW	FEB 10 2022	DES
2	ISSUED FOR 90% REVIEW	MAR 9 2022	DES
3	ISSUED FOR PERMIT	MAR 23 2022	DES
4	ISSUED FOR PERMIT	APR 7 2022	DES
5	ISSUED FOR TENDER	APR 8 2022	DES





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PROJECT:

UNIVERSAL WASHROOM

MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON **DURHAM CATHOLIC DISTRICT** SCHOOL BOARD

DRAWING:

DEMO & NEW - HVAC & PLUMBING LAYOUTS



BARRY BRYAN ASSOCIATES
Architects Engineers Project Managers
250 Water Street Suite 201

DRAWN BY: BLT CHECKED BY: BRT/LNS Whitby, Ontario MARCH 2022 SCALE: AS NOTED

21-539

BLT/LNS

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

PROJECT NO: 21125 DRAWING NO:

% COMPLETE:

PLUMBING FIXTURE SCHEDULE

WC-1 - TOILET - FLOOR MOUNTED - VITREOUS CHINA - FOR MANUAL EXPOSED FLUSHOMETER - BARRIER FREE

American Standard Madera Flowise Right Height Elongated #3461.001.020 HET Toilet, 419 mm high, white vitreous china with EverClean antimicrobial surface which inhibits the growth of stain and odor causing bacteria mold and mildew, Floor Mounted, siphon jet flush action, operates in the range of 4.2 L to 6 L (1.1 US Gal to 1.6 US Gal) per flush, condensate channel, 305 mm x 254 mm (12" x 10") water surface, elongated bowl, 54 mm (2-1/8") fully glazed internal trapway, floor outlet, bolt caps, 38 mm (1-1/2") dia. Top spud. Co-ordinate F.V.

height with grab bars. (see arch. drawings) Centoco #AM820STSS-001 self sustaining toilet seat, extra heavy duty, for elongated bowl, open front, solid plastic with antimicrobial surface, with cover, stainless steel check hinges, metal flat washers stainless steel posts

Delta TECK #81T201-48, Quiet action, Teck® exposed diaphragm flush valve. Right or left-hand supply installation. Chloramine resistant diaphragm. Forged brass diaphragm retainer. Renewable seat. Polished chrome plated finish. Vacuum breaker. For Water Closets with 1-1/2" top spud. Maximum 292mm(11 1/2") from centerline of valve inlet to top of water closet, except -1 trap seal models which are maximum 11 3/4". 1" FIP/Copper sweat inlet adaptor for angle check stop with protecting cap. Adjustable $121 \text{mm} (4.75^{\circ})$ plus or minus $11 \text{mm} (7/16^{\circ})$ inlet/valve outlet centers. Cover tube and S/S wall flange. Factory Set to 4.8L (1.27 Gal.) - NOT FIELD ADJUSTABLE. With Center Cover Bumper — for seat with cover.

Provide Floor Flange, (same material as the connecting pipe drain), with all brass bolts and with rubber gasket. Alternates: Kohler, Crane. Seats: Moldex, Olsonite, Beneke. Flush Valve: Delta Only

LV-1 - BASIN - WALL HUNG - VITREOUS CHINA - TWO HANDLE FAUCET - BARRIER FREE

American Standard Murro with Everclean #0954.004EC/0059.020EC Basin, 540 mm x 520 mm x 165 mm $(21-1/4" \times 20-1/2" \times 6-1/2")$ high, vitreous china, for carrier with concealed arms, rear overflow, recessed self-draining faucet ledge, semi-pedestal P-trap cover.

MOEN Commercial faucet, 4" centerset metering faucet, Model:8886 Chrome plated solid brass construction, ADA compliant lever style handles, 5 to 60 second cycle time, 0.5gpm(1.9L/min) MAX, vandal—rsistant multi—steam laminar flow, ASME A112.18.1/CSA B125.1 certified. provide a minimum of 10 seconds cycle time. McGuire #155A Open Grid Drain, chrome plated cast brass one piece top, 17 GA. (1.5 mm) tubular 32 mm (1-1/4") tailpiece.

McGuire #LFH165LKN3, Faucet Supplies, chrome plated polished brass, heavy duty angle stops, 10 mm (3/8") I.P.S. Inlet x 76 mm (3") long rigid horizontal nipples, V.P. Loose keys, escutcheon and stainless steel braided McGuire #8872C P-Trap, heavy cast brass adjustable body, with slip nut, 32 mm (1-1/4") size, shallow wall flange and seamless tubular wall bend. Watts #CA-462, Fixture Carrier, wall mounted, adjustable epoxy coated cast iron wall plate and arms.

Alternates: Kohler, Crane. Trim: Chicago Faucets, Emco, American Standard, Moen Commercial. Carriers: Jay R.

Smith, Zurn. TMV-1 - THERMOSTATIC MIXING VALVE - POINT-OF-USE VALVE

Lawler TMM-1070, bronze body construction, high temperature limit stop with shut off temperature of 118° (+/-3°F), integral rubber duck—bill back—flow checks within inlets, temperature adjustment dial, thermostatic mechanical mixing valve with outlet temperature range within 95-115°F (35-46°C), ASSE 1070 approved, valve shall control temperature from a low of 1/2gpm, 1gpm at 10psi and 1.6gpm at 20psi drop across the valve, 3/8"Ø compression fit inlets and outlets, ASSE Lead Free Certified. Alternates: Symmons, Powers, Leonard, RADA.

<u>FD - FLOOR DRAINS - FINISHED AREA - ADJUSTABLE STRAINER</u>

Watts #FD-100-C-7-5-1 Floor Drain - epoxy coated, cast iron body, reversible flashing clamp with primary and secondary weepholes, trap primer connection with plug, no hub outlet. Watts -5-1 5" (127 mm) diameter, nickel bronze, adjustable heavy duty round strainer.

Alternates: Jay R. Smith, Zurn. CO - CLEANOUT - FLOOR CLEANOUT

Watts #CO-200-R-34G Cleanout — epoxy coated, cast iron body, 5" (127 mm) round adjustable gasketed nickel bronze top, ABS plug with neoprene gasket, no hub outlet. Alternates: Jay R. Smith, Zurn.

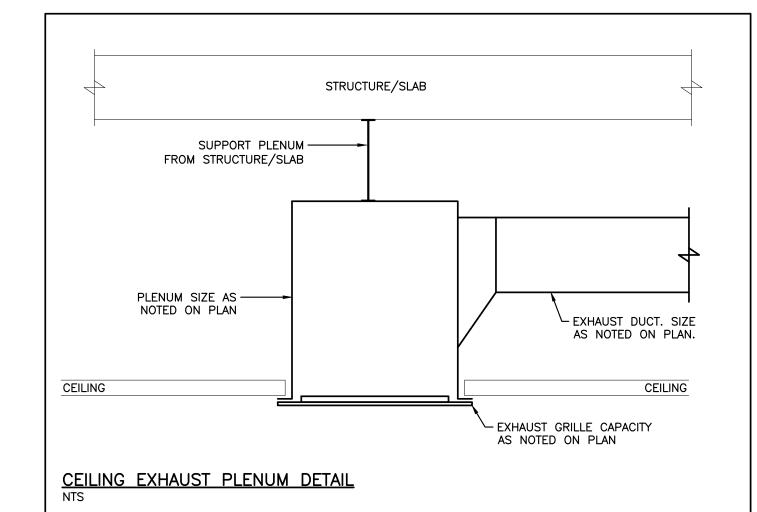
TSP-1 - TRAP SEAL PRIMERS

Sioux Chief #695—ES01, surface mount electronic trap primer, single outlet, solenoid valve, vacuum breaker, configurable electronic primer controller, water hammer arrestor, 120VAC power, 1/2" (13mm) inlet and outlet. Provide manifold as required to suit number of traps.

ACCESS DOORS/COVERS - FLUSH ACCESS DOOR - BAKED ENAMELLED

Acudor UF-5000 SC - universal flush, flush to frame door with rounded safety corners, 16 gauge up to 16" x 16"; 14 gauge over 16" x 16", 12" x 12" (305 mm x 305 mm). One piece frame outer flange welded to mounting frame, 18 gauge up to 16" x 16"; 16 gauge over 16" x 16". Continuous, concealed hinge, stainless steel screwdriver operated cam latch. 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 in wall shall be 12" x 12" (300mm x 300mm). minimize size of panels in ceilings shall be $18" \times 18"$ (450mm x 450mm).

ACUDOR #DW-5015 SERIES RECESSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME COAT, WITH CONCEALED PIVOTING ROD TYPE HINGE 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 FÍNISH OF DRYWALL JOINTS RECESSED ACCESS DOOR



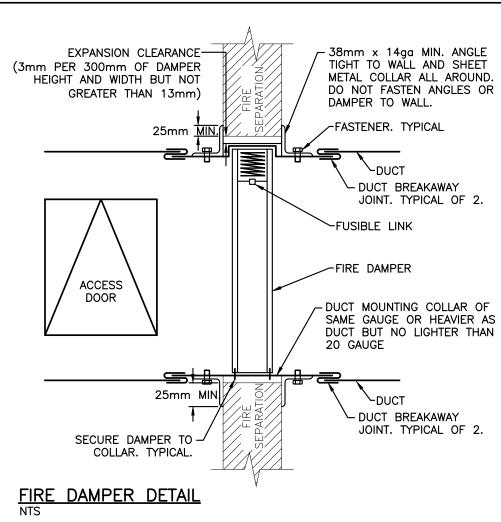
GENERAL NOTES:

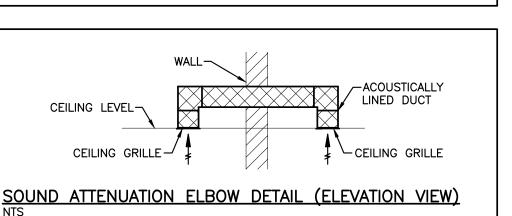
- OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
- OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY WORK BEING DONE.
- PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WITH ELECTRICIAN AND/OR SITE. EQUIPMENT PERFORMANCE. DIMENSIONS AND CLEARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO
- THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
- INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS
- DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL. WHERE SYSTEMS ARE USED AND ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN A MANNER ACCEPTABLE TO THE CONSULTANT.
- MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION
- 9. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.

EVERY 10'(3m) AND ON EITHER SIDE OF WALLS.

- 10. REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
- 1. ALL CUTTING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR, TRENCHING, EXCAVATION AND BACKFILL FOR UNDERGROUND PLUMBING SHALL BE BY THIS CONTRACTOR. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
- 12. LABEL ALL NEW PIPING IN AREA OF WORK WITH SERVICE AND FLOW ARROWS
- 13. THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS BY THE ENGINEER PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT, THE CONTRACTOR SHALL ARRANGE FOR ROUGH-IN INSPECTIONS BY THE ENGINEER PRIOR TO INSULATING OR CONCEALING ANYTHING. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXPOSE SERVICES FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT
- 14. PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE, THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.
- 15. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT. THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATING ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD
- 16. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- . PROGRESS DRAWS SHALL INCLUDE MINIMUM \$1,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
- 18. PROVIDE ONE(1) ELECTRONIC COPY OF MAINTENANCE MANUALS ON USB AND ONE(1) COPY BY DROPBOX.
- MANUAL SHALL INCLUDE: TABLE OF CONTENTS
- CONTRACTOR INFORMATION
- WARRANTY LETTER
- SHOP DRAWINGS - INSPECTION & TEST REPORTS

 AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS SHALL BE STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS). DRAWINGS SHALL BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.





PLUMBING NOTES:

PROVIDE BEFORE AND AFTER SCOPING/FLUSHING.

PROVIDE ISOLATION VALVES AT ALL FIXTURES.

- PROVIDE CLEANOUTS AS REQUIRED BY CODE. SIZE OF CLEANOUTS TO BE SAME SIZE AS SANITARY LINES.
- PROVIDE ALL TRENCHING. EXCAVATING AND BACKFILL FOR UNDERGROUND PLUMBING. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR IS BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
- PROVIDE NEW PLUMBING VENTS THROUGH ROOF AS REQUIRED BY CODE OR TIE INTO EXISTING WHERE POSSIBLE.
- INSULATE ALL NEW DOMESTIC HOT, COLD AND TEMPERED WATER PIPING WITH 1"(25mm) INSULATION. PROVIDE PVC JACKET OVER INSULATION IN
- PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
- PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS.

. COORDINATE EXACT LOCATION OF NEW FLOOR DRAINS WITH GENERAL

- CONTRACTOR TO SUIT FLOOR SLOPE. 10. PROVIDE TRAP SEAL PRIMER FOR ALL FLOOR DRAINS USING PRIMER SPECIFIED IN PLUMBING FIXTURE SCHEDULE. PRIMERS SHALL BE CONCEALED. MOUNT IN CEILING SPACE AND RUN LINE CONCEALED DOWN
- WALL AND UNDER FLOOR TO DRAIN. 1. LABEL ALL NEW PIPING IN AREAS OF WORK COMPLETE WITH SERVICE AND
- FLOW ARROWS. LABELS SHALL BE MAX 3m(10') SPACING AND ON EITHER SIDE OF WALLS
- 12. PROVIDE ACCESS DOORS WHERE REQUIRED AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. REFER TO PLUMBING FIXTURE SCHEDULE.
- 13. PROVIDE ESCUTCHEONS AROUND WATER AND SANITARY PIPING THROUGH WALL, FLOOR OR MILLWORK AT ALL FIXTURES.
- 14. LABEL CEILING GRID AT ACCESS TO ALL DEVICES.
- 15. FLUSH UNDERGROUND PIPING SYSTEMS AFTER CONSTRUCTION.

PLUMBING SPECIFICATIONS:

- ALL PLUMBING PRODUCTS SHALL BE "LEAD-FREE" CERTIFIED TO ANSI/NSF
- DRAINAGE SYSTEM (ABOVE GROUND): .1 2-1/2"(63mm) AND OVER - CAST IRON MJ PIPE WITH MJ FITTINGS
- AND STÀINLESS STEEL CLAMPS. .2 2"(50mm) AND UNDER - COPPER DWV PIPE WITH WROUGHT COPPER SOLDER FITTINGS
- DRAINAGE SYSTEM (UNDERGROUND):
- .1 PIPE UP TO AND INCLUDING 75mm(3") SHALL BE: .1 ULC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CAN/CSA B181.2 WITH
- SOLVENT WELD JOINT. .2 PIPE 75mm(3") UP TO AND INCLUDING 100mm(4") SHALL BE: .1 ULC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CAN/CSA B181.2 WITH
- SOLVENT WELD JOINT, OR .2 ULC CERTIFIED PVC SDR 28/35 BDS PIPE TO CAN/CSA B182.1 COMPLETE WITH PVC BDS FITTINGS TO CAN/CSA B182.2 WITH SOLVENT WELD JOINTS.
- .3 PIPE 125mm(5") AND UP SHALL BE: .1 ULC CERTIFIED PVC SDR 28/35 SEWER PIPE TO CAN/CSA B182.2 COMPLETE WITH PVC FITTINGS TO CAN/CSA B182.2 WITH RING GASKET JOINTS.
- VENTS PASSING THROUGH ROOF SHALL BE HEAVY GAUGE, SEAMLESS, SPUN ALUMINUM PRE-INSULATED, VANDAL PROOF VENT FLASHING AS SUPPLIED BY NATIONAL ROOFING SUPPLY OR THALER METAL.
- ALL NEW PIPE HANGERS SHALL BE:
- ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS. HANGERS SHALL WRAP AROUND OUTSIDE OF PIPE INSULATION. PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION.
- PIPE HANGER SPACING -SIZES UP TO 1-1/4"(32mm) = 8'(2.5m) SPACING -SIZES 1-1/2"(38mm) TO 2"(50mm) = 10'(3m) SPACING-SIZES 2-1/2"(63mm) AND OVER = 12'(3.5m) SPACING
- PROVIDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW PROVIDE A BALL VALVE ON HOT, COLD AND TEMPERED WATER SUPPLY ON
- BALL AND CHECK VALVES SHALL BE LEAD FREE KITZ "KEEPALLOY" SERIES OR ALTERNATE APPROVED BY CONSULTANT. ALL VALVES SHALL BE LINE
- FLEXIBLE SUPPLIES ARE NOT ACCEPTABLE FOR FLUSH TANK TOILETS OR ANY EXPOSED INSTALLATION, WHERE SUPPLIES ARE INSTALLED UNDER COUNTER OR BEHIND SHROUDS FLEXIBLE SUPPLIES ARE ACCEPTABLE.
- REFER TO PLUMBING FIXTURE SPECS INCLUDING FIXTURES, TRAP SEAL PRIMERS, WATER HAMMER ARRESTORS, ACCESS DOORS, ETC.
- .1 EXTERNAL PIPE INSULATION SHALL BE 1"(25mm) RIGID, SECTIONAL FIBERGLASSTYPE AND BE COMPLETE WITH FACTORY APPLIED ALL PURPOSE VAPOUR BARRIER. PRE-FORMED INSULATION SHALL BE USED AT PIPE FITTINGS, VALVES, ETC. PROVIDE NON-CRUSHING INSULATION AT ALL PIPE HANGERS AND PROVIDE SADDLES. .2 INSULATE DCW, DHW, DRW AND DTW PIPING.
- 11. ACCESS DOORS/COVERS
- .1 RECESSED ACCESS DOOR DRYWALL AREA: ACUDOR #DW-5015 SERIES RECESSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME COAT, WITH CONCEALED PIVOTING ROD TYPE HINGE 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 RECESSED ACCESS DOOR.
- .2 FLUSH ACCESS DOOR UNIVERSAL: ACUDOR #UF-5000 UNIVERSAL ACCESS DOORS, 14 GA. (1.7mm) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS CONCÈALED 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"x18" (300mmx450mm). WHEREVER POSSIBLE 24"x24" (600mmx600mm) PANELS SHALL BE USED UNIVERSAL FLUSH ACCESS DOOR - FOR WALLS AND CEILINGS.

HVAC NOTES:

- 1. CONCEAL ALL SERVICES IN CEILING SPACES AND FURRED CONSTRUCTION.
- 2. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- 3. COORDINATE WITH LIGHTING PLAN FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS, LIGHTING TAKES PRECEDENCE.
- TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
- FLEXIBLE DUCT SHALL ONLY BE USED IN SUPPLY AIR APPLICATIONS FOR CONNECTIONS TO DIFFUSERS IN DROPPED CEILING. FLEXIBLE DUCT SHALL BE MAXIMUM 6' (1.8m) IN LENGTH AND SHALL BE SECURELY FASTENED TO DUCTS AND DIFFUSERS. PROVIDE HANGERS AND FLEXIBLE DUCTWORK WITHOUT SHARP 90°s, SAGGING, OR CRUSHING OF DUCT, FLEXIBLE DUCT IS NOT ACCEPTABLE IN ANY OTHER APPLICATION.
- PROVIDE FIRE DAMPERS AT ALL FIRE SEPARATIONS. FIRE DAMPERS SHALL BE TYPE 'B' C/W LINKAGE OUT OF THE AIR STREAM. FIRE DAMPER RATING TO MATCH THE RATING OF THE SEPARATION CROSSED. INSTALLATION MUST CONFORM TO LATEST NFPA/CUA 90A SPECIFICATIONS. ONLY USE ULC APPROVED EQUIPMENT. PRÓVIDE DUCT ACCESS DOORS AND BREAK AWAY FLANGES FOR ALL FIRE DAMPERS IN CONFORMANCE WITH CODE AND INSTALLATION INSTRUCTIONS. ACCESS DOORS SHALL BE TWIST LOCK TYPE -SCREWED PANELS ARE NOT ACCEPTABLE.
- PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
- SUPPLY DRYWALL ACCESS DOORS FOR CONCEALED FIRE AND BALANCE DAMPERS AND ANY OTHER CONCEALED DEVICES [AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION, DOORS TO BE GALVANIZED STEEL FOR FIELD PAINTING. DOORS SHALL BE RATED WHERE INSTALLED IN FIRE
- PROVIDE FIRE STOPPING AROUND ALL EXISTING AND NEW PIPING THROUGH FIRE SEPARATIONS.
- 10. OBTAIN THE SERVICES OF A NEBB, CAABC OR NBCTA ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE HVAC SYSTEM. PROVIDE REPORT TO ENGINEER FOR REVIEW.
- PROVIDE TESTING OF EXISTING EXHAUST FAN AND PROVIDE REPORTS TO THE ENGINEER FOR REVIEW.

HVAC MATERIAL SPECIFICATIONS:

- IN CONFORMANCE WITH SMACNA, ASHRAE, OBC, NFPA 90A. SHEET METAL SHALL BE BEST QUALITY LOCK FORMING GALVANIZED SHEET METAL. GALVANIZING SHALL BE TO ASTM A525 (G90), HAVING A THICKNESS OF 0.054 MM AND WEIGHING NOT LESS THAN 0.31
- KG/M2 ON EACH SURFACE. .3 PROVIDE INSTRUMENT TEST PORTS IN DUCTS FOR PITOT TUBE INSERTION WITH CAM-ACTION HANDLE, MOULDED NEOPRENE GASKET AND EXPANSION PLUG, ZINC COATED STEEL CONSTRUCTION. .4 ALL ROUND DUCTWORK SHALL BE SPIRAL.
- DUCT INSULATION:
 - ACOUSTIC DUCT INSULATION FIBERGLASS INSULATION, COATED TO PREVENT FIBRE EROSION AT AIR VELOCITIES UP TO 400 fpm.
 - .2 ALL SUBSTRATE MATERIAL TO BE NON-DARKENED, CONTRASTING COLOUR FROM LINER LAYER. .3 THICKNESS: 1" (25mm)
- .1 FLUSH ACCESS DOOR UNIVERSAL: ACUDOR #UF-5000 UNIVERSAL ACCESS DOORS, 14 GA. (1.7mm) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN WASHROOMS SHALL BE STAINLESS STEEL. ALL OTHER PANELS SHALL BE BAKED ENAMEL PRIME COATED FOR FIELD PAINTING. MINIMUM SIZE OF PANELS SHALL BE 12"x18" (300mmx450mm). WHEREVER POSSIBLE 24"x24"
- (600mmx600mm) PANELS SHALL BE USED. .2 RECESSED ACCESS DOOR - DRYWALL AREA: ACUDOR #DW-5015 SERIES RECESSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME COAT, WITH CONCEALED PIVOTING ROD TYPE HINGE 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 FOR FIELD PAINTING.
- 4. PIPE HANGERS:
- ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS. .2 FOR COPPER PIPING (INCLUDING PIPING WITHIN WALLFIN ENCLOSURE)
- PROVIDE COPPER PLATED OR EPOXY TYPE HANGERS OR PROVIDE SEPARATION OF DISSIMILAR METALS WITH APPROVED DIELECTRIC MATERIALS. INSULATING TAPE IS NOT ACCEPTABLE.
- HANGERS SHALL WRAP AROUND OUTSIDE OF PIPE INSULATION. PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION. .4 PIPE HANGER SPACING
- -SIZES UP TO 1-1/4"(32mm) = 8'(2.5m) SPACING-SIZES 1-1/2"(38mm) TO 2"(50mm) = 10'(3m) SPACING-SIZES 2-1/2"(63mm) AND OVER = 12'(3.5m) SPACING .5 PROVIDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW

BALANCING SPECIFICATIONS:

- OBTAIN THE SERVICES OF A 3rd PARTY ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE AIR AND WATER HVAC SYSTEM.
- PROVIDE PRELIMINARY REPORT TO ENGINEER FOR REVIEW AND COMMENTS.
- 3. ALLOW FOR ONE FOLLOW-UP SITE VISIT FOR ADJUSTMENTS.

RETURN TO SITE FOR ANY ADJUSTMENTS AND SUBMIT FINAL REPORT TO

- ENGINEER AND CONTRACTOR. FOR INCLUSION INTO MAINTENANCE MANUAL. ACCEPTABLE AGENTS:
- QUALITY AIR DISTRIBUTION INC CONTACT: DAREK NIEZGODA TEL: (905)492-3111
- <u>DESIGN TEST & BALANCE</u> CONTACT: SURRINDER SINGH TEL: (905)886-6513 EMAIL: mail@designtest.ca

EMAIL: darek@qualityairdistribution.com

TECHNICAL AIRE
CONTACT: LINVAL CHAROO PHONE: (416)492-9408

EMAIL: Icharoo@technicalaire.com

- <u>FLOWSET BALANCING</u> CONTACT: CHRIS PITHER PHONE: (416)410-9793 OR (647)321-5114 EMAIL: chrisp@flowset.com
- COMPLETE SYSTEMS BALANCING CONTACT: TREVOR KELLY PHONE: 705-760-0390

EMAIL: trevork@csbalancing.com

HV	AC LEGEND
	NEW
	EXISTING
	DEMOLITION
——нs———нs——	HOT WATER HEATING SUPPLY (HS)
HR	HOT WATER HEATING RETURN (HR)
 	EXHAUST DUCTS (UP / DOWN)
	FLEXIBLE DUCT
 	ACOUSTIC LINED DUCT
≠ IFD →	FIRE DAMPER
	RETURN/EXHAUST CEILING GRILLE
/ ·-·-·/	CONTROL/SENSING WIRING
S	SPACE SENSOR

EQUIPMENT TYPE OF EQUIPMENT

SYMBOLS NUMBER DESIGNATION

. 10		
	NEW	
	EXISTING	
	DEMOLITION	
	DOMESTIC COLD WATER (DCW)	
	DOMESTIC HOT WATER (DHW)	
—т—т—	DOMESTIC TEMPERED WATER LINE (DTW)	
——AS———	ABOVEGROUND SANITARY LINE	
—_s—_s—_	UNDERGROUND SANITARY LINE	
⊕ FD	FLOOR DRAIN	
⊣lco Dco	STACK / FLOOR CLEANOUT	
WC-1	FIXTURE TAG	
	ELBOW RISING	
 ə	ELBOW DROPPING	
-	BRANCH RISING FROM TEE	
	BRANCH DROPPING FROM TEE	
IФI	SHUT-OFF BALL VALVE	
MECHANICAL ABBREVIATIONS		

PLUMBING LEGEND

ΙΦΊ	SHUT-OFF BALL VALVE				
MECHANICAL ABBREVIATIONS					
AFF	ABOVE FINISHED FLOOR				
CTE	CONNECT TO EXISTING				
C/W	COMPLETE WITH				
S/A	SUPPLY AIR				
R/A	RETURN AIR				
E/A	EXHAUST AIR				
TMV	THERMOSTATIC MIXING VALVE				
TSP	TRAP SEAL PRIMER				
	<u> </u>				

AIR OUTLET SCHEDULE		
TAG	A	
TYPE	EGG CRATE RETURN	
MANUFACTURER	PRICE	
MODEL	80-F	
SIZE	SEE DRAWINGS	
COLOUR	B12	
NOTES	-DAMPER -C/W BORDER (F) FOR TBAR MOUNTING (NO SCREW HOLES)	
ALTERNATE MANUFACTURERS	NAILOR, TITUS, METAL AIR	

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE. ALL DRAWINGS, SPECIFICATIONS AND BELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT. NO. ISSUES ISSUED FOR 30% REVIEW

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	EXISTING				
	DEMOLITION				
	DOMESTIC COLD WATER (DCW)				
	DOMESTIC HOT WATER (DHW)				
—т ——	DOMESTIC TEMPERED WATER LINE (DTW)				
—AS	ABOVEGROUND SANITARY LINE				
—s——	UNDERGROUND SANITARY LINE				
FD	FLOOR DRAIN				
Dco	STACK / FLOOR CLEANOUT				
1)	FIXTURE TAG				
)	ELBOW RISING				
)	ELBOW DROPPING				
_	BRANCH RISING FROM TEE				
_	BRANCH DROPPING FROM TEE				
	SHUT-OFF BALL VALVE				
MECHANIC	CAL ABBREVIATIONS				
	ABOVE FINISHED FLOOR		-	-	
	CONNECT TO EVICTING		NO.	REVISIONS	

DES DURHAM ENERGY SPECIALIST LIMITED CONSULTING ENGINEERS PH:(905)430-7151 FAX:(905)430-7154

PROJECT:

UNIVERSAL WASHROOM

106-209 DUNDAS STREET EAST, WHITBY ONTARIO

info@durhamenergy.com / www.durhamenergy.com

MONSIGNOR PHILIP COFFEY CATHOLIC SCHOOL 1324 OXFORD ST, OSHAWA ON

DURHAM CATHOLIC DISTRICT

DRAWING:

SCHOOL BOARD

LEGENDS, NOTES, AND SCHEDULE DETAILS



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201

L1N 0G5

CHECKED BY: BRT/LNS Whitby, Ontario MARCH 2022 SCALE: Tel: (905) 666-5252 NTS Fax: (905) 666-5256

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PROJECT NO 21125

e-mail: bba@bba-archeng.com

DRAWING NO:

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