

ALL REMAINING EXISTING DOORS TO BE STRIPPED AND REPAINTED

ALL EXISTING WALLS TO HAVE EXISTING FINISH REMOVED & MADE READY TO RECEIVE NEW FINISHES REFER TO FINISH SCHEDULE.

NOTE: UNLESS NOTED OTHERWISE, ALL EXISTING FLOOR FINISH AND BASE TO BE REMOVED. SCRAPE, PATCH AND GRIND EXISTING FLOOR TO RECEIVE NEW FINISH. REFER TO ROOM FINISH SCHEDULE FOR ROOMS TO RECEIVE NEW FINISH, TYPICAL UNO.

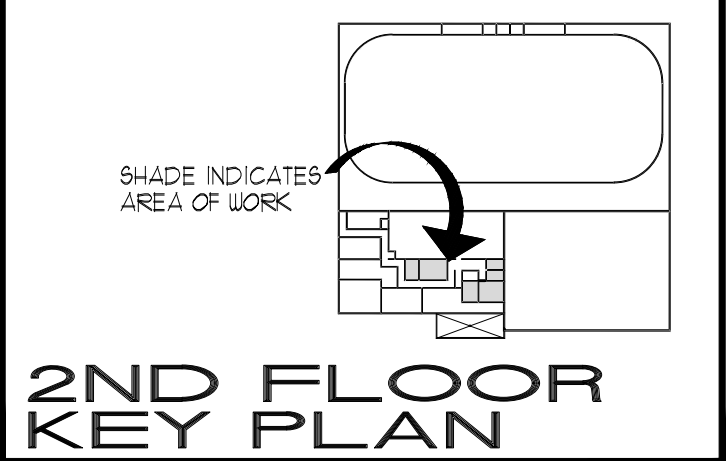
NOTE: SHADED AREA DENOTES FUTURE INTERIOR RENOVATION
HATCHED AREA DENOTES EXISTING TO REMAIN

2ND FLOOR DEMO PLAN
SCALE: 1/4" = 1'-0"

ISSUED FOR PERMIT/TENDER	07/05/2018	△
revisions	date	no.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY TO THIS FIRM BEFORE PROCEEDING WITH THE WORK

A - detail no.
B - location sheet
C - detail sheet



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BROOKE-ALVINSTON ARENA RENOVATIONS
MUNICIPALITY OF
BROOKE-ALVINSTON
3310 WALNUT ST.
ALVINSTON, ON

drawing title :	
2ND FLOOR DEMO PLAN	
date : JULY 5, 2018	drawing no. :
scale : AS NOTED	D1
drawn by : MDO	
project no. : 217154	

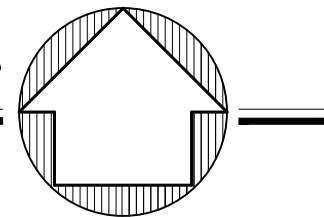


ALL LIGHTING FIXTURES AND EXISTING ACT CEILING TO BE REMOVED

NOTE:
 ■ SHADED AREA DENOTES FUTURE INTERIOR RENOVATION
 ▨ HATCHED AREA DENOTES EXISTING TO REMAIN

2ND FLOOR DEMO RCP

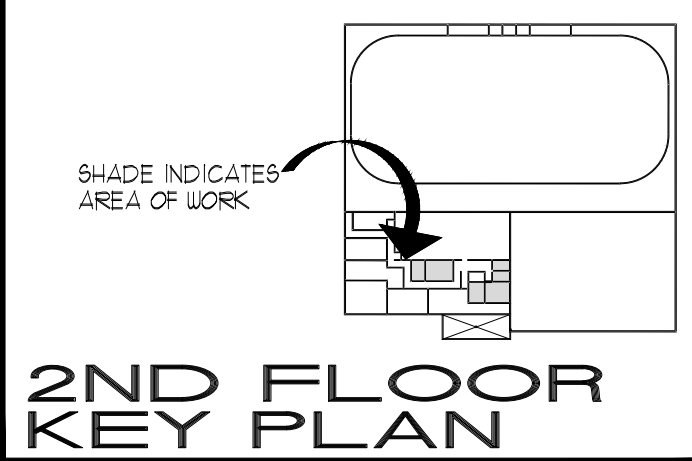
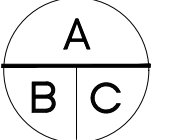
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TYPICAL DEMOLITION NOTES:

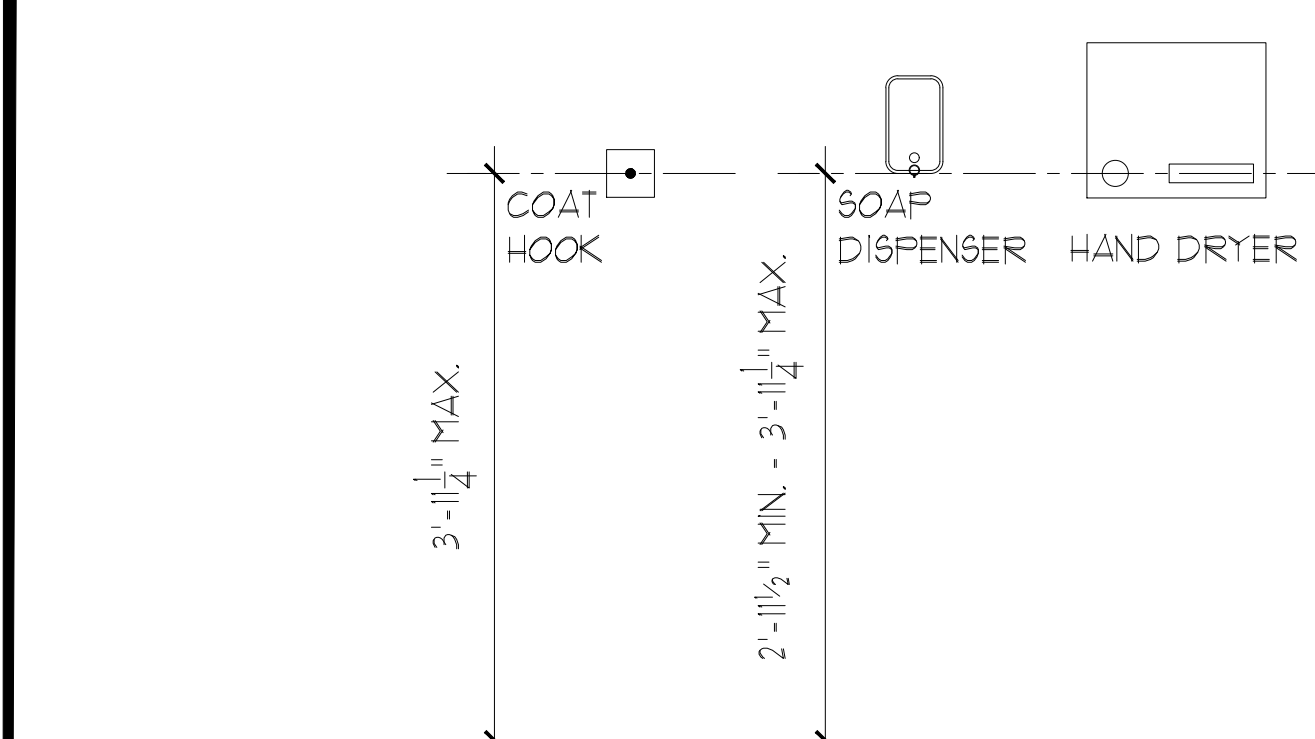
- THE INTENT OF THESE DOCUMENTS IS TO INCLUDE ALL WORK AND ITEMS NECESSARY FOR THE COMPLETION OF WORK. THE WORK SHALL BE REQUIRED WHETHER OR NOT SHOWN ON THE PLANS AND/OR CONSTRUCTION DOCUMENTS, BUT ARE REASONABLY INFERRABLE AS BEING.
- ALL DIMENSIONS ARE TO BE SITE CONFIRMED AND ANY DISCREPANCIES REPORTED TO THE ARCHITECT PRIOR TO DEMOLITION. ALL EXISTING ITEMS LOCATED AND SHOWN ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR.
- EXTENT OF BUILDING DEMOLITION IS INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE WITH THE OWNER DEMOLITION PROCEDURES AND SEQUENCE AND TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS.
- BEFORE STARTING WORK, MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATIONS. REPORT TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE EFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK. DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTION HAS BEEN MUTUALLY AGREED UPON.
- PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY DAMAGE, CRACKS OR OTHER IMPERFECTIONS IN THE WORK ADJACENT TO THE DEMOLITION AREAS.
- COORDINATE WITH MECHANICAL, ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF EXISTING UTILITY LINES IN DEMOLITION AREAS BEFORE PROCEEDING WITH THE WORK. ANY INTERFERENCES WITH DEMOLITION WORK SHALL BE REPORTED TO THE ARCHITECT.
- LOCATE, DISCONNECT, REMOVE AND/OR CAP ALL EXISTING UTILITY LINES BY MEANS APPROVED BY THE RESPECTIVE UTILITY COMPANY AND GOVERNING AUTHORITIES. RECORD UTILITY AND CAP LOCATIONS ON CONTRACTORS "AS-BUILT" DOCUMENTS.
- PRIOR TO THE DEMOLITION OF ITEMS WHICH HAVE UTILITY CONNECTIONS (WATER, GAS, ELECTRICITY, STEAM, ETC.) THE CONTRACTOR SHALL ARRANGE WITH THE OWNER TO LOCATE SHUTOFF VALVES, PANEL BOXES AND OTHER CONTROL ELEMENTS SO THAT DAMAGE AND OTHER POTENTIALLY DANGEROUS SITUATIONS ARE AVOIDED.
- MAINTAIN AT ALL TIMES THE EMERGENCY LIGHTING THROUGHOUT THE BUILDING DURING DEMOLITION WORK. AS WELL AS, RECONSTRUCTION WORK. PROVIDE ALL NECESSARY TEMPORARY LIGHTING, PARTITIONS, DUST COVERS, DROP CLOTHES, ETC.
- IF REQUIRED, CLOSE OFF EXISTING SUPPLY/ RETURN PIPES FEEDING EXISTING ROOMS TO PREVENT DUST/DEBRIS ENTRY.
- CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT STRUCTURES. MAINTAIN TEMPORARY PROTECTED EGRESS AND ACCESS AT ALL TIMES. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
- PATCH, FILL AND REPAIR ALL SURFACES DISTURBED, CUT, DAMAGED, IN NEED OF REPAIR OR MADE IMPERFECT BY ALTERATIONS OR REMOVAL WORK (INCLUDING DAMAGE CAUSED BY OTHER TRADES) AND AS REQUIRED TO PREPARE FOR NEW MATERIALS AND ARRANGEMENTS.
- REMOVE EXISTING HOLLOW METAL DOOR AND FRAME, BLOCKING, SHIMS, BACKER ROD AND CAULKING AS INDICATED.
- ALL WALLS NOTED TO RECEIVE PAINT FINISH ARE TO BE PATCHED AND MADE READY FOR PAINTING REGARDLESS OF THE FINISH, SHEEN OR TEXTURE OF THE EXISTING PAINT.
- ALL FLOORS NOTED TO RECEIVE NEW FLOOR FINISH SHALL BE PATCHED, GRINDED SMOOTH AND MADE READY TO RECEIVE NEW FLOOR FINISH.
- PROVIDE TEMPORARY PROTECTION TO PREVENT DAMAGE FROM THE WEATHER OR VANDALISM, AS WELL AS PROTECTION FOR THE GENERAL PUBLIC SO THAT THE OWNER'S BUSINESS OPERATIONS ARE MINIMALLY DISTURBED. IN ADDITION, PROVIDE TEMPORARY PROTECTION OF EXISTING EQUIPMENT DURING EXECUTION OF WORK.
- PROVIDE FIRE WATCH DURING FIELD CUTTING AND WELDING OPERATIONS. MEETING THE OWNER'S REQUIREMENTS. EMPLOY ONLY SKILLED TRADESMEN TO PERFORM DEMOLITION WORK. DO NOT USE CUTTING TORCHES FOR REMOVAL OF WORK UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. CUTTING TORCHES MAY BE USED ONLY WITH THE OWNER'S PERMISSION.
- PROTECT ALL EXISTING PORTIONS OF THE EXISTING BUILDING TO REMAIN DURING DEMOLITION/CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY/ALL DAMAGES CAUSED BY HIMSELF OR HIS/HERS SUB-CONTRACTORS.
- PROTECT ALL NEW DEMOLISHED OPENINGS PRIOR TO CONSTRUCTION OF NEW DOORS, MASONRY INFILL, FIRE RATED PARTITIONS, ETC. SEE FLOOR PLANS.
- AT NO TIME SHOULD THE CONTRACTOR ALLOW THE DEMOLITION WORK OR STORAGE OF DEBRIS TO CAUSE INTERFERENCE WITH ANY REQUIRED MEANS OF EGRESS OR CAUSE A HAZARDOUS CONDITION.
- EXECUTE THE DEMOLITION IN AN ORDERLY AND CAREFUL MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC OR THE FUNCTIONING OF THE EXISTING BUILDING.
- CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE THOROUGHFARES.
- KEEP CLEAN ALL EXISTING SPACES AND PROPERTIES ADJACENT TO DEMOLITION/CONSTRUCTION AREAS. ANY DEBRIS SHALL BE REMOVED FROM WORK AREAS DAILY.
- KEEP ALL ADJOINING PUBLIC AREAS CLEAN DURING WORKING HOURS AND MAKE EVERY EFFORT TO PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND THE WORKERS.
- DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ACCUMULATION OF RUBBISH SHALL NOT BE PERMITTED.
- ALL DEMOLITION MATERIAL SHALL BE REMOVED BY THE CONTRACTOR FROM THE SITE AND DISPOSED OF IN A PROPER AND LEGAL MANNER. THE SELECTION OF THE DUMP SITE AND DISPOSAL OF MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES:

- ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ANY OTHER MATERIALS, PROCEDURES & EQUIPMENT NOT LISTED ABOVE SHALL ADHERE TO THE LATEST EDITION OF THE O.B.C. AND MUNICIPAL SPECIFIC BY-LAWS WHERE THE WORK IS BEING CONDUCTED.
- READ ARCHITECTURAL DRAWING NOTES AND DIMENSIONS IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, SITE SERVICES, SITE PLANS, SHOP DRAWINGS, STANDARD ABBREVIATIONS, MOUNTING HEIGHTS AND CONTRACT DOCUMENTS, DRAWINGS ARE TO BE READ, NOT SCALED.
- REFER TO PLANS, ELEVATIONS, SECTIONS, WALL TYPES & DETAILS FOR ALL TYPICAL CONSTRUCTION DETAILS AND NOTES UNLESS NOTED OTHERWISE.
- CONTRACTOR TO REVIEW AND VERIFY ALL CONSTRUCTION DOCUMENTS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.
- THE ARCHITECT ASSUMES THE GENERAL CONTRACTOR HAS INCLUDED THE HIGHEST QUALITY AND GREATEST QUANTITY FOR THE PURPOSE OF RESOLVING ANY CONFLICTS IN THE CONSTRUCTION DOCUMENTS WHICH ARE IMPLIED OR UNDEFINED.
- ALL FINISHES AND FINISH MATERIALS, COLORS OR TEXTURES SHALL BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION, FABRICATION OR ORDERING.
- REFER TO SHEET A5 FOR MILLWORK ELEVATIONS.
- ELEVATIONS ARE ONLY SCHEMATIC FOR LAYOUT PURPOSES, REFER TO MILLWORK SHOP DRAWINGS FOR MATERIALS AND SPECIFICATIONS.
- ALL WALLS BEHIND MILLWORK SHALL HAVE FINAL FINISH PRIOR TO INSTALLATION. ALL FLOORING FINISH MATERIAL SHALL BE INSTALLED PRIOR TO MILLWORK INSTALLATION.
- REFER TO ROOM FINISH SCHEDULE FOR ALL ROOM FINISHES.
- GENERAL CONTRACTOR TO COORDINATE ROUGH-IN OF ELECTRICAL WITH MILLWORK SUPPLIER AND COORDINATE ALL ELECTRICAL AND PHONE OUTLETS WITH ELECTRICAL DRAWINGS.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE AND CONFIRM ALL SINK, UNDERGROUND / OVERHEAD PLUMBING AND ELECTRICAL SUB-UPS.
- REFER TO MECHANICAL/PLUMBING DRAWINGS FOR ADDITIONAL NOTES, DETAILS AND INFORMATION.
- VERIFY LOCATIONS OF ALL ROOF PENETRATIONS WITH STRUCTURAL, PLUMBING, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
- GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION AND SAUCUT JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE.
- CONTROL JOINTS ARE TO BE PROVIDED AT 25' O.C. MAX FOR GYPSUM BOARD. TYPICAL UNLESS NOTED OTHERWISE.
- ALL INTERIOR PARTITION DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- OFFSET WALLS WHERE GYPSUM BOARD THICKNESS VARY TO ENSURE THAT FINISH WALL SURFACES ARE FLUSH WITH EACH OTHER.
- BARRIER-FREE WASHROOM STALLS AND ACCESSORIES TO BE IN ACCORDANCE WITH THE CURRENT O.B.C. SUPPLY AND INSTALL MIRRORS, TOILET TISSUE DISPENSERS, GRAB BARS AND OTHER ITEMS AS INDICATED ON THE WASHROOM ACCESSORIES LEGEND OR SHOWN ON PLAN. REFER ALSO TO BARRIER FREE WASHROOM NOTES ON SHEET A5. STANDARD MOUNTING HEIGHTS ON SHEET A1 AND WASHROOM ELEVATIONS ON SHEET A6 FOR MORE INFORMATION.
- SEE SPECIFICATIONS FOR EXACT MODEL OF ALL WASHROOM FIXTURES AND ACCESSORIES.
- PROVIDE ALL REQUIRED SUPPORT BEHIND FIXTURES, PARTITIONS AND ACCESSORIES.
- CEILING HUNG TOILET PARTITIONS TO BE USED WHERE NOTED.
- ALL VENT LOCATIONS SHOULD BE VERIFIED WITH PLUMBING AND MECHANICAL DRAWINGS. EXHAUST FANS AND VENTS TO BE LOCATED A MINIMUM OF 10'-0" FROM A.C. INTAKE. VERIFY ALL LOCATIONS WITH PLUMBING AND MECHANICAL DRAWINGS.

ACCESSIBILITY NOTES:

- ONE OF THE REQUIRED BARRIER-FREE ENTRANCES TO THESE FACILITIES SHALL BE THE PRINCIPAL ENTRANCE TO THE BUILDING. THE B.F. PATH OF TRAVEL SHALL BE PROVIDED THROUGHOUT THE ENTRANCE STOREY, AND THROUGHOUT ALL NORMALLY OCCUPIED FLOOR AREAS. (REFER TO 3.8.2 FOR EXCEPTIONS). IF THE ENTRANCE INCLUDES MORE THAN ONE DOORWAY, ONLY ONE OF THE DOORWAYS IS REQUIRED TO BE B.F.
- IN ADDITION TO THE B.F. ENTRANCES REQUIRED BY SENTENCE (1), A SUITE OF ASSEMBLY, BUSINESS AND PERSONAL SERVICES OR MERCANTILE OCCUPANCIES THAT IS LOCATED IN THE 1ST STOREY OF A BUILDING OR IN A STOREY TO WHICH A B.F. P.O.T. IS PROVIDED, AND THAT IS SEPARATED FROM THE REMAINDER OF THE BUILDING SO THAT THERE IS NO ACCESS TO THE REMAINDER OF THE BUILDING, SHALL HAVE AT LEAST ONE B.F. ENTRANCE.
- B.F. ENTRANCES SHALL LEAD FROM THE OUTDOORS AT SIDEWALK LEVEL OR A B.F. RAMP THAT LEADS FROM A SIDEWALK.
- EVERY BARRIER-FREE PATH OF TRAVEL SHALL PROVIDE AN UNOBSTRUCTED WIDTH OF AT LEAST 43 3/4" (1100 mm) FOR THE PASSAGE OF WHEELCHAIRS AND:
 - HAVE NO OPENINGS THAT WILL PERMIT THE PASSAGE OF A 1 1/2" (38mm) SPHERE.
 - HAVE ANY ELONGATED OPENINGS ORIENTED APPROX. PERP. TO THE DIRECTION OF TRAVEL.
 - BE STABLE FIRM & SLIP-RESISTANT.
 - BE BEVELLED AT A MAX. SLOPE OF 1 IN 2 AT CHANGES IN LEVEL NOT MORE THAN 1/4" (3 mm) AND
 - BE PROVIDED w/ SLOPED FLOORS OR RAMPS AT CHANGES IN LEVEL MORE THAN 1/4" (3 mm).
- EVERY B.F. P.O.T. LESS THAN 63" (1600 mm) IN WIDTH SHALL BE PROVIDED w/ AN UNOBSTRUCTED SPACE NOT LESS THAN 10 3/8" x 10 3/8" (260x260 mm) LOCATED NOT MORE THAN 36-5/8" (930 m) APART.
- WHERE HEADROOM IN B.F. P.O.T. IS LESS THAN 78 1/2" (1990 mm) A GUARDRAIL OR OTHER BARRIER w/ ITS LEADING EDGE AT OR BELOW 28 1/2" (720 mm) AFF. SHALL BE PROVIDED.
- WHERE A BUILDING IS REQUIRED TO HAVE A B.F. ENTRANCE, SIGNS INCORPORATING THE INTERNATIONAL SYMBOL OF ACCESS SHALL BE INSTALLED TO INDICATE THE LOCATION OF THAT ENTRANCE. RAMPS LOCATED IN A REQUIRED BARRIER-FREE PATH OF TRAVEL SERVING THAT ENTRANCE AND AN EXTERIOR PASSENGER LOADING ZONE, IF ONE IS PROVIDED.
- WHERE A WASHROOM, ELEVATOR, TELEPHONE OR PARKING AREA IS REQUIRED TO ACCOMMODATE PERSONS WITH DISABILITIES, IT SHALL BE IDENTIFIED BY A SIGN CONSISTING OF THE INTERNATIONAL SYMBOL OF ACCESS AND SUCH OTHER GRAPHIC, TACTILE OR WRITTEN DIRECTIONS AS ARE NEEDED TO INDICATE CLEARLY THE TYPE OF FACILITY AVAILABLE.
- WHERE A WASHROOM IS NOT DESIGNED TO ACCOMMODATE PERSONS WITH DISABILITIES IN A STOREY THAT IS REQUIRED BY ARTICLE 3.8.2.1, TO HAVE A B.F. P.O.T., SIGNS SHALL BE PROVIDED TO INDICATE THE LOCATION OF THE WASHROOM REQUIRED TO BE BARRIER-FREE.
- SIGNS INCORPORATING THE INTERNATIONAL SYMBOL OF ACCESS SHALL BE INSTALLED WHERE NECESSARY TO INDICATE THE LOCATION OF A B.F. MEANS OF EGRESS.
- EXTERIOR WALKS SHALL HAVE A PERMANENT, FIRM AND SLIP-RESISTANT SURFACE, WITH A AN UNINTERRUPTED WIDTH OF NOT LESS THAN 43 3/4" (1100 mm) AND A GRADIENT NOT EXCEEDING 1 IN 20.
- WHERE A WALKWAY EXCEEDS 1 IN 20 IT IS TO BE DESIGNATED AS A RAMP IN ACCORDANCE WITH SECTION 3.8.3.4.
- BARRIER-FREE RAMP IS TO HAVE A MAXIMUM GRADIENT OF 1 IN 12.
- RAMPS LOCATED IN A BARRIER FREE PATH OF TRAVEL SHALL:
 - HAVE A MIN. WIDTH OF 35 3/4" (900 mm) B/W RAILS.
 - MAX. 1 IN 12 GRADIENT.
 - HAVE A MIN. LEVEL AREA OF 68 3/4" x 68 3/4" (1750x1750 mm) AT THE TOP AND BOTTOM OF THE RAMP AND WHERE A DOOR IS LOCATED IN THE RAMP SO THAT THE LEVEL AREA EXTENDS 23 3/4" (600 mm) BEYOND THE LATCH SIDE OF THE DOOR OPENING. THIS AREA MAY BE REDUCED TO 11 3/4" (300 mm) WHEN THE DOOR SWINGS AWAY FROM THE APPROACH.
- CLOSERS FOR INTERIOR DOORS IN A B.F. P.O.T. SHALL HAVE A CLOSING PERIOD OF NOT LESS THAN 3 SECONDS MEASURED FROM WHEN THE DOOR IS IN AN OPEN POSITION OF 10° TO THE DOORWAY, TO WHEN THE DOOR REACHES A POINT 2 3/4" (75 mm) FROM THE CLOSED POSITION, MEASURED FROM THE LEADING EDGE OF THE LATCH SIDE OF THE DOOR.
- UNLESS EQUIPPED WITH A POWER DOOR OPERATOR, A DOOR IN A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A CLEAR SPACE ON THE LATCH SIDE EXTENDING THE HEIGHT OF THE DOORWAY AND NOT LESS THAN 23 3/4" (600 mm) BEYOND THE EDGE OF THE DOOR OPENING IF THE DOOR SWINGS TOWARD THE APPROACH SIDE. 11 3/4" (300 mm) BEYOND THE EDGE OF THE DOOR OPENING IF THE DOOR SWINGS AWAY FROM THE APPROACH SIDE, AND 11 3/4" (300 mm) BEYOND BOTH SIDES OF A SLIDING DOOR.
- CLOSERS (NOT EQUIPPED WITH DOOR OPERATORS) FOR DOORS IN A B.F. P.O.T. SHALL BE DESIGNED TO PERMIT DOORS TO OPEN WITH A FORCE OF NOT MORE THAN 36 N (8.5 LBS) IS APPLIED TO THE HANDLES, PUSH PLATES OR LATCH-RELEASING DEVICES IN THE CASE OF EXTERIOR DOORS AND 22 N (4.9 LBS) IN THE CASE OF INTERIOR DOORS.
- DOOR OPENING DEVICES THAT ARE THE ONLY MEANS OF OPERATION SHALL BE DESIGNED TO BE OPERABLE USING A CLOSED FIST, AND BE MOUNTED AS PER THE STANDARD MOUNTING HEIGHTS ON SHEET A5. PUSH PLATE OR PULL AND LEVER HANDLES ARE ACCEPTABLE.
- WHERE A TACTILE ATTENTION INDICATOR IS REQUIRED, THE DEPTH SHALL NOT BE LESS THAN 11 3/4" (300 mm) AND NOT MORE THAN 24 (610 mm) AND CONFORM TO CLAUSES 4.11 AND 4.12 OF ISO 23599. "ASSISTIVE PRODUCTS FOR BLIND AND VISION IMPAIRED PERSONS - TACTILE WALKING SURFACE INDICATORS".
 - SURFACE FINISH OF RAMPS AND STAIRS - AT THE TOP OF THE STAIRS, STARTING ONE TREAD DEPTH BACK FROM THE EDGE OF THE TOP STAIR, AND AT THE LEADING EDGE OF LANDINGS WHERE A DOORWAY OPENS ONTO STAIRS, STARTING ONE TREAD DEPTH BACK FROM THE EDGE OF THE LANDING.
 - EXTERIOR WALKS - LOCATED TO IDENTIFY AN ENTRY INTO A VEHICULAR ROUTE OR AREA WHERE NO CURBS OR ANY OTHER ELEMENT SEPARATE THE VEHICULAR ROUTE OR AREA FROM A PEDESTRIAN ROUTE.
 - PLATFORMS - NOT PROTECTED BY A GUARD, AND HIGHER THAN 9 3/4" (250 mm) AFF. OR GROUND OR SLOPED STEEPER THAN 1 IN 3.
 - POOL AND POOL DECK DESIGN - EXCEPT FOR A MODIFIED POOL AND WAVE ACTION POOL, THE PERIMETER OF THE POOL DECK SHALL BE CLEARLY DELINEATED AND LOCATED WHERE ANY AREA CONTIGUOUS TO THE POOL DECK MAY BE CONFUSED WITH THE DECK.



TYPICAL WASHROOM ACCESSORY MOUNTING HEIGHTS

ONTARIO BUILDING CODE CHECKLIST

FIRM NAME:
SPRIET ASSOCIATES LIMITED ARCHITECTS
155 YORK STREET
LONDON, ONTARIO
N6A 1A8
CERTIFICATE OF PRACTICE NUMBER: 1307
The Certificate of Practice Number of the Practioner is the architect's BC201

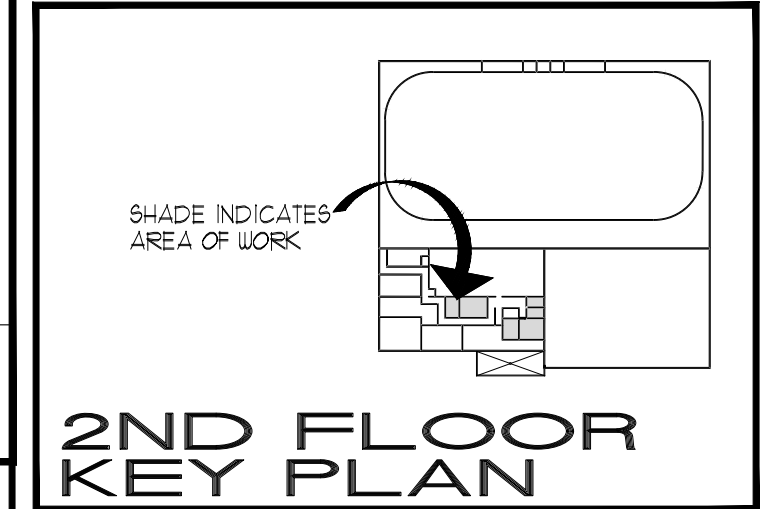
Name of Project:
Brooke-Alvinston Arena Renovation
Location:
3236 River Street, Alvinston Arena

ONTARIO BUILDING CODE DATA MATRIX PARTS 11 - RENOVATIONS OF EXISTING BUILDING		O.B.C. REFERENCE
11.1	EXISTING BUILDING CLASSIFICATION: DESCRIBE EXISTING USE: _____ CONSTRUCTION INDEX: _____ HAZARD INDEX: _____ <input checked="" type="checkbox"/> NOT APPLICABLE (no change of major occupancy)	11.2.1 T 11.2.1.1A T 11.2.1.1B TO N
11.2	ALTERATION TO EXISTING BUILDING IS: BASIC RENOVATION <input checked="" type="checkbox"/> EXTENSIVE RENOVATION <input type="checkbox"/>	11.3.3.1 11.3.3.2
11.3	REDUCTION IN PERFORMANCE LEVEL: STRUCTURAL: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES BY INCREASE IN OCCUPANT LOAD: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES BY CHANGE OF MAJOR OCCUPANCY: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES PLUMBING: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES SEWAGE-SYSTEM: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	COMPENSATING CONSTRUCTION: STRUCTURAL: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (explain) BY INCREASE IN OCCUPANT LOAD: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (explain) BY CHANGE OF MAJOR OCCUPANCY: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (explain) PLUMBING: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (explain) SEWAGE-SYSTEM: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (explain)	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	COMPLIANCE ALTERNATIVES PROPOSED: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (give number(s))	11.5.1

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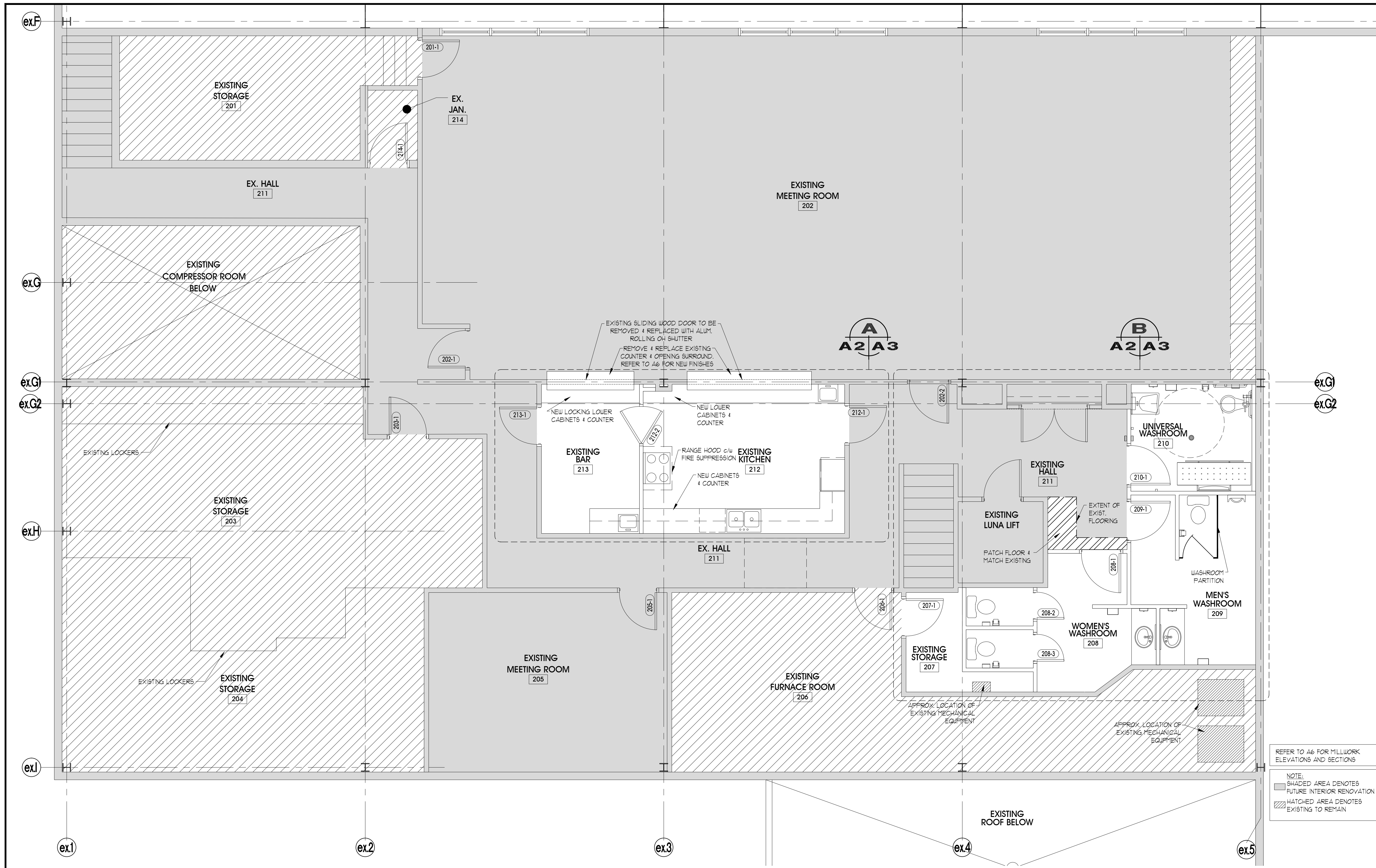
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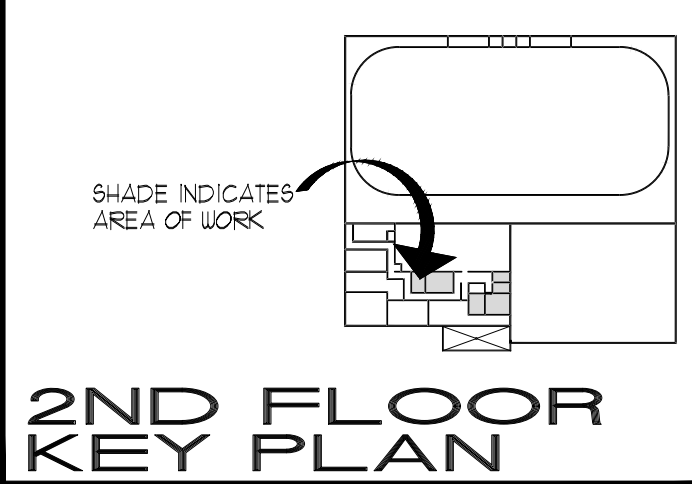
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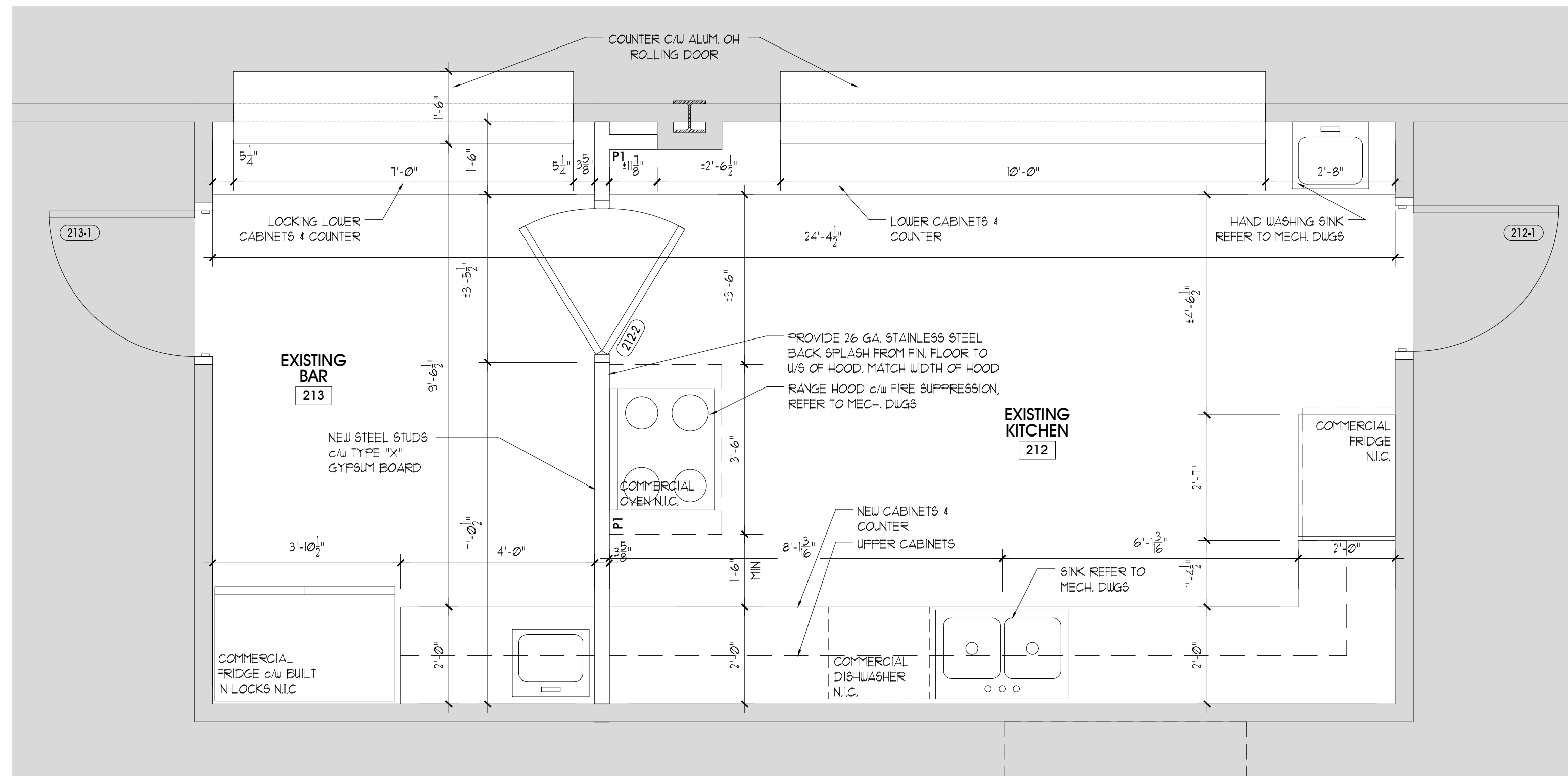
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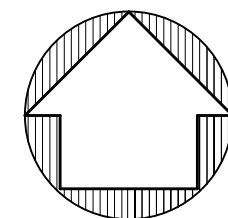
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scale : A6 NOTED	A2
drawn by : MDO	
project no. : 217154	

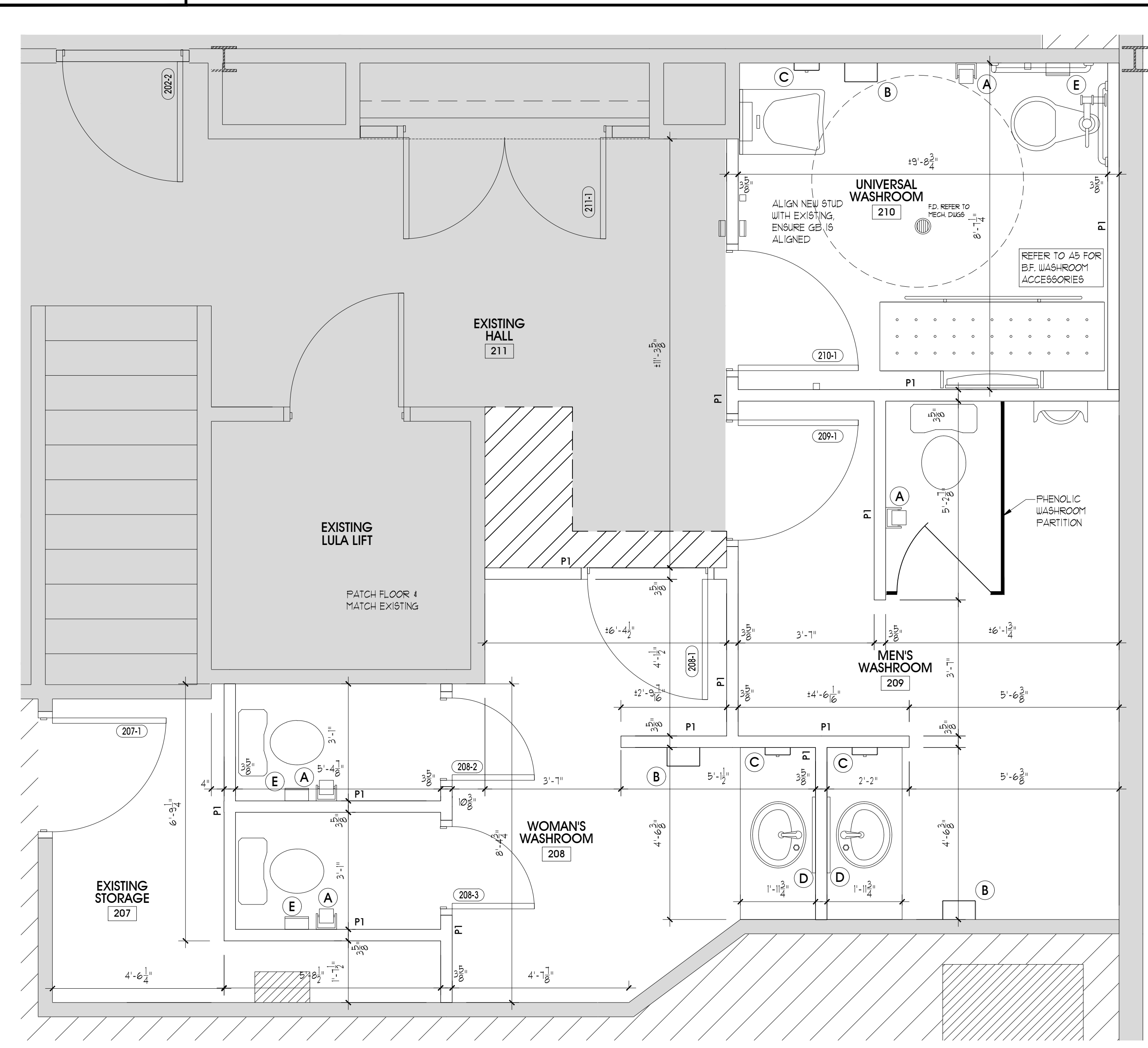
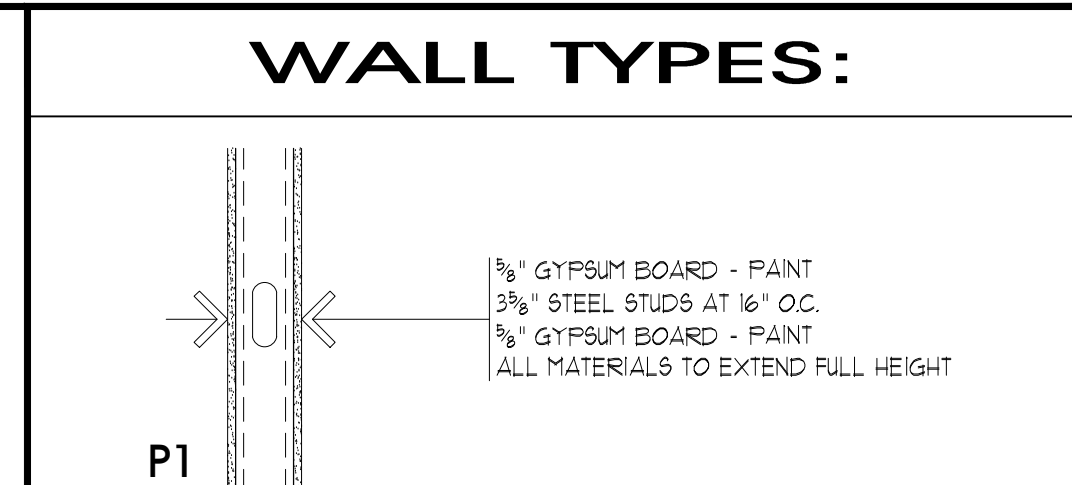


ENLARGED 2ND FLOOR PLAN
SCALE: 1/2" = 1'-0"
A2/A3



NOTE:
REFER TO A6 FOR
MILLWORK DETAILS

NOTE:
SHADED AREA DENOTES FUTURE
INTERIOR RENOVATION
HATCHED AREA DENOTES
EXISTING TO REMAIN



WASHROOM ACCESSORIES LEGEND:

A TOILET TISSUE DISPENSER WALL MOUNTED, BELOW THE GRAB BAR, IN LINE WITH THE SEAT, REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION, FROST CODE 1665 OR EQUIVALENT, STAINLESS STEEL FINISH.
B PAPER TOWEL DISPENSER REFER TO WASHROOM ELEVATIONS AND STANDARD MOUNTING HEIGHTS FOR MORE INFORMATION, FROST CODE 103 OR EQUIVALENT, STAINLESS STEEL TYPE 304 No. 4 BRUSHED FINISH
C SOAP DISPENSER LOCATED TO BE ACCESSIBLE TO PERSONS IN WHEELCHAIRS & OPERABLE WITH ONE HAND, REFER TO WASHROOM ELEVATIONS FOR MORE INFORMATION, FROST CODE 111 OR EQUIVALENT, STAINLESS STEEL FINISH.
D MIRROR 24" x 36" TAMPER RESISTANT MIRROR, INSTALLED ABOVE LAVATORY, REFER TO WASHROOM ELEVATIONS FOR MORE INFORMATION, FROST CODE 941-2436.
E SANITARY NAPKIN DISPOSAL WALL MOUNTED, BELOW THE GRAB BAR, REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION, FROST CODE 622, OR EQUIVALENT, STAINLESS STEEL TYPE 304 No. 4 BRUSHED FINISH

NOTE:
SHADED AREA DENOTES FUTURE
INTERIOR RENOVATION
HATCHED AREA DENOTES
EXISTING TO REMAIN

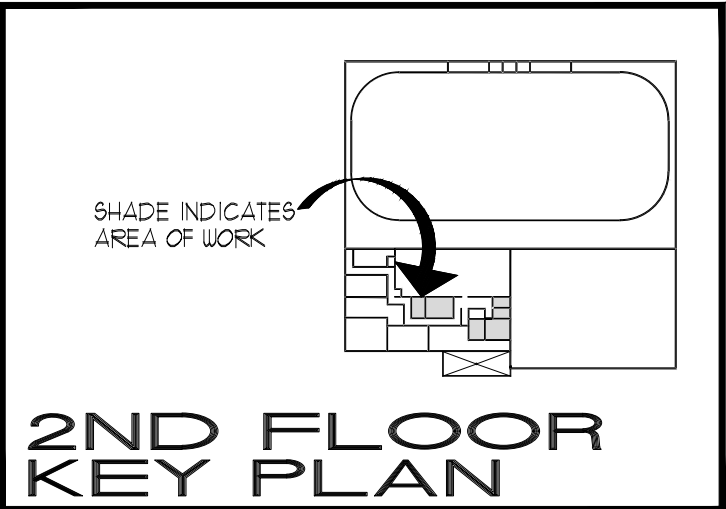
NOTE:
REFER TO A6 FOR
MILLWORK DETAILS

ENLARGED 2ND FLOOR PLAN
SCALE: 1/2" = 1'-0"
A2/A3

ISSUED FOR PERMIT/TENDER	07/05/2018	△
revisions	date	no.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY TO THIS FIRM BEFORE PROCEEDING WITH THE WORK

A - detail no.
B - location sheet
C - detail sheet



SPRIET ASSOCIATES

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LONDON LTD.
engineers

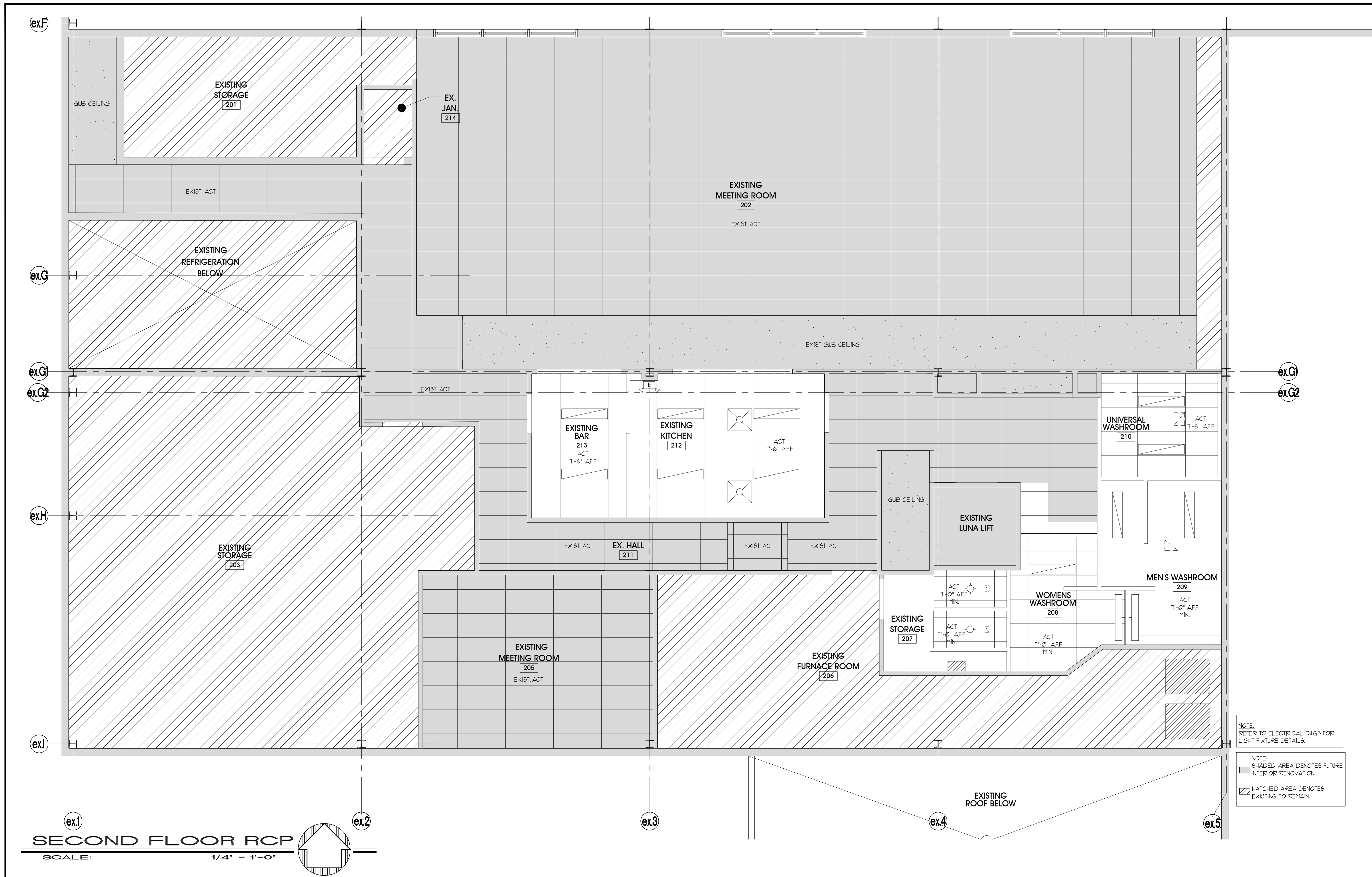
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BROOKE-ALVINSTON ARENA RENOVATIONS
MUNICIPALITY OF
BROOKE-ALVINSTON
3310 WALNUT ST.
ALVINSTON, ON

drawing title :

ENLARGED 2ND FLOOR PLAN

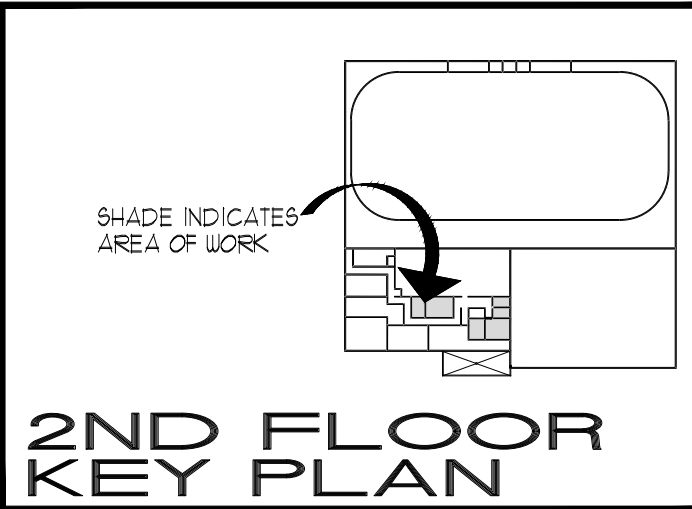
date : JULY 5, 2018	drawing no. :
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REFLECTED CEILING PLAN LEGEND:

ROOM NAME TAG DENOTES ROOM NAME AND ROOM NUMBER	12"x48" RECESSED FLUORESCENT LIGHT FIXTURE. REFER TO ELECT. DUGS FOR SPECS.
WALL	EMERGENCY LIGHTING OR EXIT SIGNAGE AS PER FIRE MARSHALL GUIDELINES. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION
LOCATION OF DOOR OR OPENING IN WALL	RECESSED POT LIGHT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFO
24"x48" LAY-IN ACOUSTIC CEILING TILE REFER TO WALL SECTIONS AND ROOM FINISH SCHEDULE	VANITY FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFO
24"x24" LAY-IN ACOUSTIC CEILING TILE REFER TO WALL SECTIONS AND ROOM FINISH SCHEDULE	
GYPSUM BOARD CEILING PAINT FINISH. REFER TO WALL SECTIONS AND ROOM FINISH SCHEDULE	
DENOTES METAL STUD AND GYPSUM BOARD BULKHEAD. REFER TO PLAN FOR FIN. CEILING HEIGHT	
MECHANICAL SUPPLY, RETURNS AND VENTS REFER TO MECH. DUGS FOR MORE INFORMATION	

- REFLECTED CEILING PLAN NOTES:**
- SEE WALL SECTIONS, WALL TYPE LEGEND, ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION
 - LOCATE/COORDINATE STRUCTURAL BRIDGING AS REQUIRED TO CLEAR LIGHT FIXTURES, O.H. DOOR TRACKS, RADIANT HEATER, ETC. COORDINATE WITH STRUCTURAL DRAWINGS.
 - UNO UNDERSIDE OF ALL LIGHT FIXTURES IN ALL OPEN AREAS SHALL BE MOUNTED IN LINE WITH THE UNDERSIDE OF THE O.W.S.U. BOTTOM CHORD. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - ALL CONDUIT AND PIPING SHALL BE INSTALLED AGAINST UNDERSIDE OF ROOF DECK IN ALL OPEN AREAS, DUCTWORK, ETC. SHALL BE INSTALLED ABOVE BOTTOM CHORD OF JOIST, NO EXCEPTIONS.
 - ALL CONDUIT AND PIPE RUNS SHALL BE RUN IN A STRAIGHT AND CONSISTENT CLEAN MANNER FROM DEVICES BACK TO WALL AND STUB-INS.
 - EMERGENCY EXIT SIGNAGE TO BE LOCATED AND INSTALLED AS PER FIRE MARSHALL REQUIREMENTS. COORDINATE WITH ELECTRICAL DRAWINGS PRIOR TO INSTALLATION. WALL MOUNT AT EXIT DOORS.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION OF INSTALLATION OF DIFFUSERS, LIGHT FIXTURES, EXHAUST FANS, RECEPTACLES ETC. IN CEILING.
 - PROVIDE 24" WIDE ACOUSTIC INSULATION AROUND PERIMETER ABOVE CEILING.

BROOKE-ALVINSTON ARENA RENOVATIONS
 MUNICIPALITY OF BROOKE-ALVINSTON
 3310 WALNUT ST. ALVINSTON, ON

drawing title:
2ND FLOOR RCP

date: JULY 5, 2018	drawing no.:
scale: AS NOTED	A4
drawn by: MDO	
project no.: 217154	

ROOM FINISH SCHEDULE

No.	ROOM NAME	FLR.	BASE	WALL		CEILING			REMARKS
				MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
201	EXISTING STORAGE	EXIST	EXIST	GB	EXIST	EXIST	EXIST	EXIST	
202	EXISTING MEETING ROOM	VCT	RB	GB	PT	AT-1	-	-	
203	EXISTING STORAGE	EXIST	EXIST	GB	EXIST	EXIST	EXIST	EXIST	
204	EXISTING STORAGE	EXIST	EXIST	GB	EXIST	EXIST	EXIST	EXIST	
205	EXISTING MEETING ROOM	VCT	RB	GB	PT	AT-1	-	-	
206	EXISTING FURNACE ROOM	EXIST	EXIST	GB	EXIST	EXIST	EXIST	EXIST	
207	EXISTING STORAGE	EXIST	EXIST	GB	EXIST	EXIST	EXIST	EXIST	
208	WOMEN'S WASHROOM	LVP	RB	GB	PT	AT-1	-	1'-0" MIN.	REMOVE EXISTING FLOOR FINISH
209	MEN'S W/R	LVP	RB	GB	PT	AT-1	-	1'-0" MIN.	REMOVE EXISTING FLOOR FINISH
210	BARRIER FREE W/R	LVP	RB	GB	PT	AT-1	-	1'-6"	REMOVE EXISTING FLOOR FINISH
211	EXISTING HALL	VCT	RB	GB	PT	AT-1	-	-	
212	KITCHEN	LVP	RB	GB	PT	AT-1	-	1'-6"	REMOVE EXISTING FLOOR FINISH
213	BAR	LVP	RB	GB	PT	AT-1	-	1'-6"	REMOVE EXISTING FLOOR FINISH
214	EXISTING JANITORS ROOM	VCT	RB	EXIST	PT	AT-1	-	-	

NOTE: HATCH DENOTES NOT IN SCOPE OF CURRENT RENOVATION

ABBREVIATIONS

AT - 1, 2'-0" x 4'-0" ACOUSTIC TILES	PT PAINT	GB CONCRETE
EXP EXPOSED	RB RUBBER BASE	L.V.P. LUXURY VINYL PLANK

- ### GENERAL NOTES:
- PROVIDE 24" WIDE ACOUSTIC INSULATION AROUND PERIMETER ABOVE CEILING.
 - ALL EXPOSED CONCRETE FLOORS TO BE SEALED. REFER TO SPECIFICATIONS FOR PRODUCT TO BE USED.
 - PROVIDE HOLD DOWN CLIPS ON ACOUSTIC CEILING TILES.
 - INSTALL CERAMIC TILES OR COLOURED CONCRETE TOPPING TO SECOND FLOOR AT TOP OF STAIRS - SEE DRAWINGS FOR MATERIALS.
 - PAINTING OF EXPOSED CEILING SHALL INCLUDE ALL STRUCTURAL STEEL, EXPOSED DUCT WORK, CONDUIT, O.W.S.J., STEEL DECK ETC.
 - ALL FINISHES TO BE INSTALLED PRIOR TO INSTALLATION OF MILLWORK.
 - PAINTING TO EXTEND TO FINISH FLOOR LEVEL.
 - INSTALL 6" HIGH CERAMIC TILE BASE c/w Schluter INSIDE AND OUTSIDE VERTICAL CORNERS. CAPS AND TRIMS AND COVE BASE WITH ALL INSIDE AND OUTSIDE CORNERS, CONNECTORS AND END CAPS. REFER TO SPECIFICATIONS FOR DETAILS.
 - ALL CONCRETE BLOCK / CONCRETE FLOOR SLAB INTERSECTIONS TO BE FILLED WITH GROUT TO ELIMINATE GAPS
 - BETWEEN WALL AND FLOOR. SEAL AS REQUIRED.

ACCESSIBILITY NOTES:

- #### 3.2.3.3 REQUIREMENTS FOR BARRIER FREE WATER CLOSETS:
- BE EQUIPPED WITH HAND-OPERATED FLUSHING CONTROLS THAT ARE EASILY ACCESSIBLE TO A WHEELCHAIR USER OR BE AUTOMATICALLY OPERABLE. IF CONTROLS ARE NOT AUTOMATIC THEY SHALL BE OPERABLE USING A CLOSED FIST AND WITH A FORCE OF NOT MORE THAN 22.2 N.
 - SHALL NOT HAVE A SPRING ACTIVATED SEAT AND BE EQUIPPED WITH BACK SUPPORT WHERE THERE IS NO SEAT LID OR TANK.
- #### 3.2.3.11 REQUIREMENTS FOR BARRIER FREE LAVATORIES:
- HAVE INSULATED PIPES OR WATER SUPPLY TEMPERATURE LIMITED TO A MAX. OF 43°C TO PREVENT BURNS.
 - EQUIPPED WITH FAUCETS WITH LEVER TYPE HANDLES WITHOUT SPRING LOADING OR OPERATE AUTOMATICALLY.
 - HAVE A MINIMUM 53 3/8" (1370 mm) DEEP FLOOR SPACE TO ALLOW FOR A FORWARD APPROACH, OF WHICH A MAXIMUM OF 19 3/8" (500 mm) CAN BE LOCATED UNDER THE LAVATORY
- #### REQUIREMENTS FOR GRAB BARS:
- PROVIDE SOLID BLOCKING (OR BAILEY'S BACKER BAR) IN WALLS FOR GRAB BAR ANCHORAGE.
 - GRAB BARS SHALL BE NOT LESS THAN 1 3/8" (35 mm) AND NOT MORE THAN 1 3/4" (40 mm) IN DIAMETER WITH A SLIP RESISTANT FINISH AND WHEN INSTALLED BE ABLE TO RESIST A LOAD OF AT LEAST 13 AN APPLIED VERTICALLY OR HORIZONTALLY.

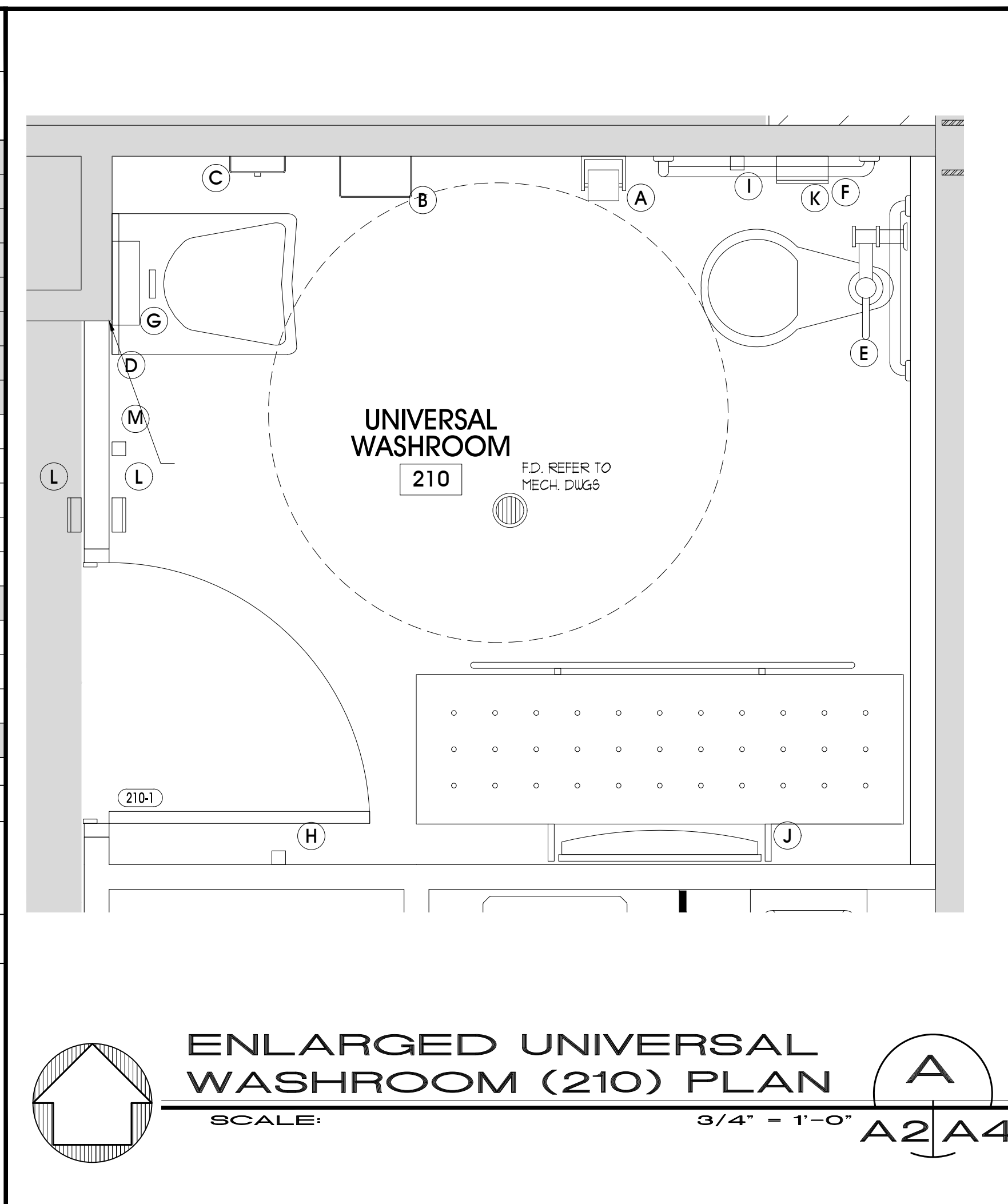
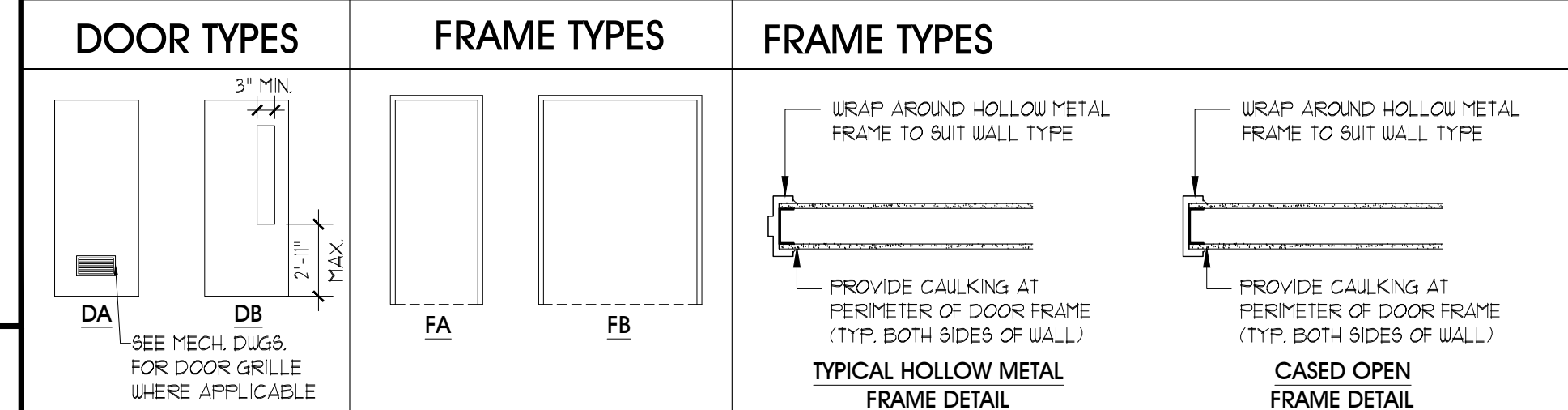
DOOR SCHEDULE

No.	DOOR			DOOR SIZE	INSUL.	FRAME			FIRE RATING (HRS.)	REMARKS
	MATERIAL	ELEV.	FINISH			MATERIAL	ELEV.	FINISH		
201-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
202-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
202-2	HM	DA	PT	3'-2" x 6'-8"	-	HM	FA	PT.	-	
203-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
204-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
205-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
206-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
207-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
208-1	HM	DA	PT	3'-2" x 6'-8"	-	HM	FA	PT.	-	SEE NOTES-1
208-2	HM	DA	PT	2'-6" x 6'-8"	-	HM	FA	PT.	-	SEE NOTES-1
208-3	HM	DA	PT	2'-6" x 6'-8"	-	HM	FA	PT.	-	SEE NOTES-1
209-1	HM	DA	PT	3'-2" x 6'-8"	-	HM	FA	PT.	-	SEE NOTES-1
210-1	HM	DA	PT	3'-2" x 6'-8"	-	HM	FA	PT.	-	SEE NOTES-1, 2 & 3
211-1	HM	DA	PT	2 - 2'-10" x 6'-8"	-	HM	FB	PT.	-	SEE NOTES-1
212-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
212-2	HM	DB	PT	3'-0" x 6'-8"	-	HM	FA	PT.	-	CASED OPEN FRAME DOUBLE-ACTION SPRING HINGE
213-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	
214-1	EX.	EX.	PT	EXISTING	-	EX.	EX.	PT.	-	

NOTE: HATCH DENOTES NOT IN SCOPE OF CURRENT RENOVATION

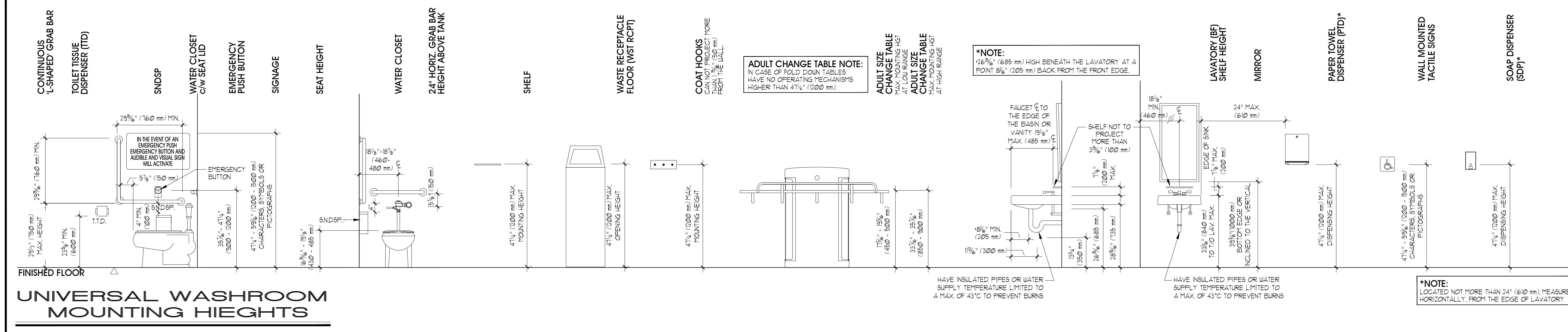
ABBREVIATIONS

HM HOLLOW METAL	1. CLOSER & LATCH	3. PROVIDE ELECTRONIC SECURITY DEVICE - 12/24V Electric Strike TO BE INSTALLED IN DOOR FRAME. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
PT PAINT	2. PROVIDE H/C DOOR OPERATOR.	



BARRIER FREE WASHROOM ACCESSORIES LEGEND:

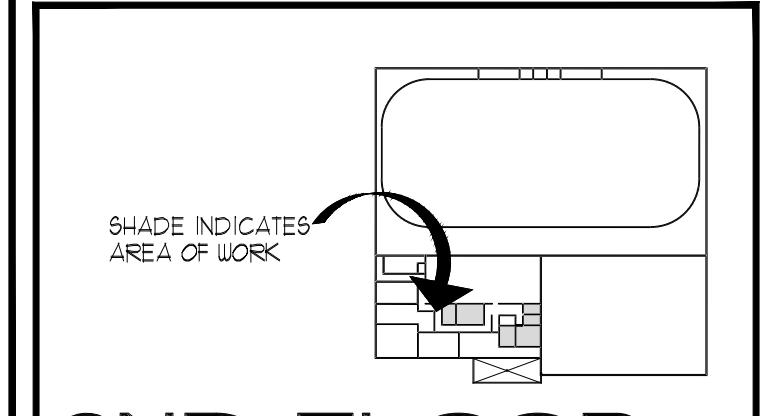
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|--|--|--|
| <p>(A) TOILET TISSUE DISPENSER
WALL MOUNTED, BELOW THE GRAB BAR, IN LINE WITH THE SEAT. REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 1663 OR EQUIVALENT. STAINLESS STEEL FINISH.</p> | <p>(F) CONTINUOUS 'L-SHAPED' GRAB BAR
WALL MOUNTED. 4 CONTINUOUS L-SHAPED BAR. REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 1003 30"x30": 1/4" OR EQUIVALENT. STAINLESS STEEL, PEENED FINISH.</p> | <p>(J) FUTURE ADULT SIZED CHANGE TABLE (NOT REQUIRED AT THIS TIME)
DESIGNED TO CARRY A LOAD OF MIN 133 KN & HAVE A CLEAR FLOOR SPACE PARALLEL TO THE LONG SIDE OF THE TABLE NOT LESS THAN 23 3/4" (760mm) WIDE x 59 1/2" (1500mm) LONG. FOLD DOWN TABLES CANNOT ENCR OACH CLEAR FLOOR SPACE. PROVIDE BLOCKING IN WALL AS REQ'D.</p> |
| <p>(B) PAPER TOWEL DISPENSER
REFER TO WASHROOM ELEVATIONS AND STANDARD MOUNTING HEIGHTS FOR MORE INFORMATION. FROST CODE 103 OR EQUIVALENT. STAINLESS STEEL TYPE 304 No. 4 BRUSHED FINISH</p> | <p>(G) SHELF
WALL MOUNTED. REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION. GAMCO MS-18 4"x18". STAINLESS STEEL FINISH.</p> | <p>(K) SANITARY NAPKIN DISPOSAL
WALL MOUNTED, BELOW THE GRAB BAR. REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 622 OR EQUIVALENT. STAINLESS STEEL TYPE 304 No. 4 BRUSHED FINISH</p> |
| <p>(C) SOAP DISPENSER
LOCATED TO BE ACCESSIBLE TO PERSONS IN WHEELCHAIRS & OPERABLE WITH ONE HAND. REFER TO WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 111 OR EQUIVALENT. STAINLESS STEEL FINISH.</p> | <p>(H) COAT HOOK
CAN NOT PROJECT MORE THAN 2" FROM FINISHED FACE OF WALL. REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 1385 SINGLE OR EQUIVALENT. STAINLESS STEEL FINISH. OR AS PROVIDED BY HADRIAN TOILET PARTITIONS FOR THE MEN'S AND WOMEN'S WASHROOMS.</p> | <p>(L) POWER DOOR OPERATOR (D.O.D.)
REQUIRED IF THE DOOR IS EQUIPPED WITH A SELF-CLOSING DEVICE. REFER TO STANDARD MOUNTING HEIGHTS, SPECIFICATIONS & ELECTRICAL DRAWINGS FOR MORE INFORMATION.</p> |
| <p>(D) MIRROR
18" x 24" FIXED TILT, TAMPER RESISTANT MIRROR. INSTALLED ABOVE LAVATORY. REFER TO WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 94FT.</p> | <p>(I) EMERGENCY CALL BUTTON
SYSTEM COMPLETE WITH AUDIBLE AND VISUAL SIGNAL DEVICES INSIDE & OUTSIDE OF THE WASHROOM ACTIVATED BY A CONTROL DEVICE INSIDE THE WASHROOM. EMERGENCY SIGN THAT CONTAINS THE WORDS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGN WILL ACTIVATE" IN LETTERS AT LEAST 25mm (1") HIGH W/ A 5mm (3/16") STROKE AND THAT IS POSTED ABOVE THE EMERGENCY BUTTON. REFER ALSO TO ELECT. DUGS DRAWINGS. UNIVERSAL WASHROOM ELEVATIONS AND STANDARD MOUNTING HEIGHTS FOR MORE INFORMATION.</p> | <p>(M) MOTION SENSOR
LIGHTING TO BE CONTROLLED BY A MOTION SENSOR CONFORMING TO SENTENCE 12.24.1. (2) MOTION SENSORS SHALL BE INSTALLED W/ SWITCH CONTROLLERS EQUIPPED FOR FAIL-SAFE OPERATION & ILLUMINATION TIMERS SET FOR A MINIMUM 15 MINUTE DURATION. REFER TO ELECTRICAL DRAWINGS FOR LOCATION TO BE INSTALLED (MAY BE WALL OR CEILING MOUNTED)</p> |
| <p>(E) 24" HORIZONTAL GRAB BAR
WALL MOUNTED, HORIZONTALLY. REFER TO UNIVERSAL WASHROOM ELEVATIONS FOR MORE INFORMATION. FROST CODE 1001 24": 1/4" OR EQUIVALENT. STAINLESS STEEL, PEENED FINISH.</p> | | |



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ONTARIO ASSOCIATION OF ARCHITECTS
S.M. McLaughlin
SHANNA McLAUGHLIN
LICENCE 8311

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BROOKE-ALVINSTON ARENA RENOVATIONS
MUNICIPALITY OF BROOKE-ALVINSTON
3310 WALNUT ST. ALVINSTON, ON

drawing title : SCHEDULES, B.F. HEIGHTS & PLAN	
date : JULY 5, 2018	drawing no. :
scale : AS NOTED	A5
drawn by : MDO	
project no. : 217154	

GENERAL

- The General Contractor shall make inquiries concerning those parts of the work which are regulated by federal, provincial, or municipal government departments and public or private utilities companies.
- Refer to applicable sections for shop drawing requirements.
- The work covered by all Divisions of these specifications shall be performed by skilled workmen in accordance with the current edition of the Ontario Building Code and other reference standards specified herein and to the best current standard practice of workmanship using the materials specified.
- The following terms apply to these Specifications:
 - General Contractor: noted herein shall refer as The General Contractor
 - Contractor: noted herein shall refer to a person or entity having a direct contract with the General Contractor to perform a part or parts of or to supply labour and/or materials of the work.
 - Consultant: noted herein shall refer to Spriet Associates.
 - Owner: noted herein shall refer to Municipality of Brocke-Alvinston

DIVISION 5 - METALS

- Miscellaneous Metals
 - Steel sections and plates: to CAN3-G4021-M18, Grade 300UL
 - Hollow structural steel sections: to CAN G4021-M18 300UL
 - Welding materials: to CSA U59.
 - All fasteners: as shown on drawings, or if not shown on drawings, shall be of a suitable size, quality, strength finish and durability to provide adequate performance and/or appearance as required by their location in the work.
 - Shop coat primer: to CG55 1-GF-401.

DIVISION 6 - WOOD AND PLASTICS

- All lumber shall be graded in accordance with NLGA standard grading rules for Canadian Lumber 1981 Edition. Framing Lumber, blocking, nailers, etc. shall be No. 2 Grade Spruce Pine Fir Group D, moisture content 18% or less.
- Provide and install all fasteners and hardware as shown on the drawings (except finishing hardware specified in Division 8) specified herein, or required for proper installation of carpentry and millwork. Fasteners not shown or specified shall be of a suitable quality, size, strength finish and durability to provide adequate performance and/or appearance as required by their location in the work.
- Millwork: Do finish carpentry to Millwork Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC) 1984, except where specified otherwise.
- Submit four (4) sets of shop drawings for all millwork items detailed on the drawings.
- Plastic laminate: shall conform to CAN3-A112-M19, Type I general purpose, 1/16" nominal thickness. All panels shall be balanced with 2/32" backing sheet. Use urea resin adhesive conforming to CSA 0123-M1871. Colour by Consultant.
 - Acceptable high pressure laminate manufacturers: Formica, Nevamar, Fioronte 4 Wilsonart.
- Edging shall be plastic laminate, colour to match face panels, field applied to manufacturer's specifications.
- Particle board, unless noted otherwise, shall be particle core melamine board (MCP), 1/2" thickness as noted on the drawings. Apply plastic laminate to all exposed edges.
- Plywood shall be Douglas Fir plywood, thickness as noted on the drawings. Apply plastic laminate to exposed faces and edges.
- Filament framing: pine, to NLGA (Standard Grading Rules for Canadian Lumber, 1981) 15a, No.1 common.
- Hardware shall be as listed below or equal:
 - Hinges: steel, straight hing arm, Blum 93M2550 with spring and full overlay, 2 per door.
 - Pull, doors and drawers: brushed chrome, 3 1/2" CBH #255.
 - Drawer slides: epoxy coated steel, Knappe 4 Vogt #284.
 - Adjustable shelf clips: shall be Knappe and Vogt 346, nickel plated steel. All shelves to be adjusted at 3/4" (19mm) intervals.
- Counters, etc. shall be as detailed on the drawings using materials listed below:
 - Doors and shelves (particle board): Doors to be 5/8" (15.5mm) thick, shelves to be 3/4" (19mm). Fixed shelves to be blind housed into gables. Adjustable shelves shall sit on clips sitting in plaster strips.
 - Gables (particle board): 3/4" (19mm) thick and located where shown on the drawings.
 - Tops and bottoms (particle board): 3/4" (19mm) thick.
 - Backs for exposed shelving where indicated on the drawings (particle board): 1/4" (6mm) thick, Rabbit backs into sides, tops and bottom.
 - Counter tops pre-formed with no drip edge, plastic laminated covered. All exposed ends to be covered with plastic laminate.
 - Drawers (particle board): 1/4" bottoms and 3/8" sides, back and subface panels. Face panels shall be 5/8" (15.5mm) thick.
- Fasteners shall be as listed below:
 - Nails and staples to CSA B111-1974: galvanized for exterior work, interior humid areas and for treated lumber plain finish elsewhere.
 - Wood screws: to CSA B354-1972, electroplated.

DIVISION 7 - MOISTURE PROTECTION

- Interior Caulking: shall be one-part elastomeric gun grade sealant, NPI as manufactured by Sorelborn, or approved equal. Colour by consultant.
- Cauk around all door and window frames both sides, all control joints, all joints between metal surfaces, masonry surfaces and other locations shown on the drawings.
- Sound attenuation blankets: shall be Roxul AFB acoustical fire batt as manufactured by Roxul. Batt to be thickness to match stud wall.

DIVISION 8 - DOORS, WINDOWS

- Hollow metal door frames: shall be formed from minimum 16 gauge steel reinforced at mitred corners, hinge, strike, and closer locations. Frame depths shall suit wall thickness but shall be 5-3/4" minimum. Frames shall be primed.
- Hollow steel doors: formed from wipe coat galvanized sheet steel with a minimum zinc coating of .45 oz/sq/ft (13.5 g/sqm). Steel sheet shall be 16 ga. minimum thickness for exterior doors and 18 ga. minimum thickness for interior doors.
- All doors and frames: scheduled to be fire-rated shall be manufactured in accordance with specifications issued by an organization accredited by Standards Council of Canada and shall have the appropriate labels permanently affixed to the frames.
- All hardware for this project unless specified under other Divisions of this specification, shall be purchased and supplied under the Hardware Allowance as indicated on the Form of Tender. The General Contractor shall include in his tender sum the cost of installation. No additional sum will be allowed for labour, use of tools, overhead, profit, etc., for installing any hardware purchased with the cash allowance these costs must be included in the tender sum.
- The Consultant will arrange for a hardware list to be prepared for the project. The Consultant will arrange for the supply of the finish hardware.
- Automatic Swinging Door Operators and all related controls shall be manufactured by Besan Inc. and supplied by Enex Door Automation Inc. (519) 824-5331 or approved equal.
- Automatic Swinging Door System shall be "Power Swing System". All units to be surface mounted (all wiring from the junction box to the operator and from the operator to the activating devices shall be concealed). Battery operated devices as noted on drawings, if applicable.
- The motor of each door operator shall operate from a minimum 5 amp, 115V AC 1-phase circuit.
- Aluminum - Rolling Counter Door
 - The door curtain shall be constructed of inter-connected strip steel slats conforming to ASTM-526. The curtain shall be constructed of 22 gauge No. 10 (4 1/8" high by 3/8" deep) slats as designated on the cockson company.
 - The finish on the door curtain shall be coats on FinalCote consisting of the following:
 - Hot dipped galvanized G-30 coating consistent with ASTM A-525.
 - Bonderized coating for prime coat adhesion.
 - Corrosion inhibiting primer - 2 mils per side.
 - Thermo-setting grey polyester top coat with a minimum thickness of .6 mils each side.

- The bottom bar shall be constructed of tubular extruded aluminum measuring 1 5/16" deep by 2 1/4" high with a double vinyl astragal on the bottom edge. The bottom bar shall receive a 204-RI clear anodized finish.
- The guides shall be constructed of tubular extruded aluminum and measures 1 3/4" square. Each side of the channel portion capturing the curtain shall contain wool pile weatherstripping. The guides shall receive a 204-RI clear anodized finish.
- The brackets shall be constructed of 3/16" thick die cast aluminum.
- The barrel shall be steel tubing of not less than 4" in diameter. Oil tempered torsion springs shall be capable of correctly counter balancing the weight of the curtain. The barrel shall be designed to limit the maximum deflection of .03" per foot of opening width. The finish on the barrel shall be one (1) coat of bronze rust-inhibiting prime paint.
- The hood shall be fabricated from 24 gauge galvanized steel and shall be formed to fit the square brackets. The finish on the hood shall be the Cockson FinalCote finish as indicated in the curtain section.
- Operation: Push up operated doors shall open and close with a maximum of 30 pounds of effort utilizing finger lifts in the bottom bar. This type of operation should not be used for "doors" over 10 feet wide.
- Locking Mechanisms: The push-up doors shall be secured by means of concealed sliding bolt deadlock in the bottom bar operated by a thumb-turn.

DIVISION 9 - FINISHES

- Gypsum drywall: of thickness noted on the drawings, Type X for fire rated assemblies, tapered edges, ivory faced, conforming to CSA 0231-M1980 as manufactured by Canadian Gypsum Company Limited, Domet Construction Materials Limited, or Western Canadian Gypsum Company.
- Casing beads: minimum 28 U.S. gauge galvanized sheet steel with perforated steel flanges suitable for taping and filling. Section 200-A metal trim by CGC or equal.
- Steel studs as noted below shall be as manufactured by CGC:
 - 3 5/8" (92mm) deep metal studding and runners: .021" (0.53mm) thick
 - 6" (152mm) deep metal studding and runners: .021" (0.53mm) thick
- Proceed with painting only when surfaces and conditions are satisfactory for production of a first class job. Commencement of work shall imply acceptance of conditions.
- Finishes and number of painting coats specified below are intended to cover the surface completely. If they do not, apply additional coats until complete coverage is achieved. All surfaces shall receive a semi-gloss finish.
- Owner will prepare a Colour Finish Schedule prior to field painting.
- All exposed metal (ferrous) steel doors and frames shall receive one coat zinc chromate primer and two coats exterior alkyl enamel.
- Gypsum board shall receive one coat of latex sealer and two coats of interior alkyl enamel.
- All woodwork, plywood, etc. required to be painted shall receive one coat interior enamel undercoater and two coats of interior alkyl enamel.
- All wood (doors) and millwork required to be stained shall receive one coat nonbleeding alkyl stain, one coat sanding sealer and one coat alkyl interior flat, satin or gloss varnish as directed by the Consultant. All six sides of doors to be finished. Contractor to submit stain samples to the Consultant for selection prior to finishing.
- The painting contractor shall include in his cost, to supply to the Owner, after completion of his contract, 4 litres (unopened) of each paint colour of hue specified in the Colour Schedule. The paint shall be supplied in properly marked containers, keyed to the approved Colour Schedule. The Contractor shall include for costing purposes a maximum requirement of 5-4 litre containers.
- The painting contractor shall, when complete, provide a Colour Schedule "As Built", if colours used were different from those specified on the Consultant's Colour Schedule. Manufacturer, colour code number and colour name are to be listed.
- Ceramic Tile: For backsplash Yura 4"x24" by Olympia colour by consultant.
 - Thin set mortar, walls and floors: in strict accordance with manufacturer's recommendations.
 - Additive: latex additive formulated for use in Portland Cement mortar and thin set bond coat.
 - Grout: dry grout as recommended by tile supplier. Colour by Consultant.
 - Cleaning compound: to TTMAC Standard 1001
 - Sealing compound: Aquamix penetrating sealer as manufactured by Aquamix Inc.
- The ceramic tile installation, cleaning and sealing shall conform to the following:
 - Install tile in accordance with Installation Manual 200-1979, "Ceramic Tile" produced by Terrazzo Tile and Marble Association of Canada (TTMAC).
 - Joints in tile shall be uniform in width, subject to normal variance in tolerance allowed in tile size. Joints shall be watertight without voids, cracks, excess mortar, or grout. Joints between sheets shall be of same width as joints between individual tiles.
 - Carry out all work in strict accordance with lines and dimensions shown on drawings. Check all dimensions on site. Neatly cut tiles around fittings, fixtures, and drains. Form intersections, corners, and returns accurately.
 - Clean and seal ceramic tile surface to TTMAC recommendations and to and to satisfaction of owner
- Luxury Vinyl Tile: shall be as listed on drawings and room finish schedule.
 - Reducer strip: (where flooring abuts concrete of existing floor surfaces).
 - Durafim FV190: Colour by Consultant.
 - Primers and adhesives: as recommended by tile and base manufacturers. Adhesives for tile and base shall produce good and permanent bond between wall and floor surfaces.
 - Sub-floor filler and leveller: as recommended by flooring manufacturer for use with their product.
 - Cleaner, Sealer and Finish: Cleaner "Amico Blue Label", Sealer: "Amico Platinum Label", Finish: "Amico Silver Label".
- The luxury vinyl tile installation, cleaning and sealing shall conform to the following:
 - Install in strict accordance with manufacturer's printed directions, by approved installers only.
 - Apply adhesive uniformly with an approved notch-tooth spreader at the recommended rate. Do not spread more adhesive than can be covered by flooring before initial set takes place. Use waterproof adhesive on concrete slabs or grade.
 - Carry out all work in strict accordance with lines and dimensions shown on drawings. Check all dimensions on site. Neatly cut tiles around fittings, fixtures, and drains. Form intersections, corners, and returns accurately.
 - Clean and seal luxury vinyl floor tile surface as per manufacturer's recommendations and to satisfaction of owner
- Deliver 4% of each colour of tile required for this project for maintenance use. Tiles to be from same production run as installed materials.
- Provide ceramic and luxury vinyl tile manufacturer's maintenance data for inserting into the maintenance manual. Refer to Section 1000 General Requirements for details.
- Rubber Base: rubber, to CSA 1365-M85, PV-4030, as noted on drawings manufactured by Roppe. Provide preformed external corners. Colour by Consultant.
- Lay-in suspension system: as manufactured by Dom Canada Ltd, Bailey Suspension Systems, or Flangeklamp of Canada Limited comprising of:
 - Hangers: 12 ga. mild steel, galvanized wire
 - Standard main tees: 17" (435mm) long, zinc-coated steel double web design, rectangular bulb at top of web, 1 1/2" (38mm) height, 15/16" (24mm) width, exposed surfaces finished satin white enamel
 - Standard cross tees: 4" (12m) long, zinc-coated steel with same cross-section design and finish as main tees, both ends of exposed face factory formed to interlock securely and to overlap main tees so as to provide flush joints.
 - Edge mouldings: 15/16" (24mm) x 9/16" (143mm) mild mould finished satin white enamel.
 - Hold down clips: Armstrong Retention Clip System. Provide 2 clips per ceiling tile. Refer to the Room Finish Schedule and sections for the locations. (If applicable)
- Acoustic Ceiling Tile: shall be 24"x48"x5/8" (600mmx1200mmx16mm) Armstrong Designer T34 angled square edge, colour to be white.
- Provide one (1) unopened carton of acoustical tile type specified for maintenance materials and turn over to the Owner at completion of the contract. Maintenance materials to be from same production run as installed materials.

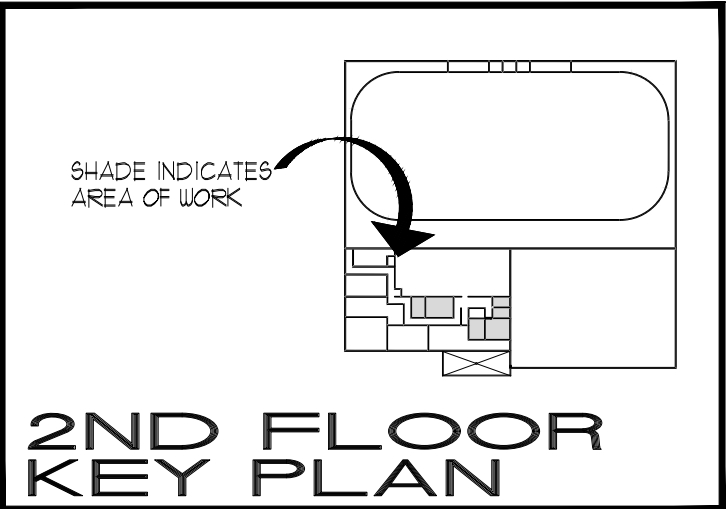
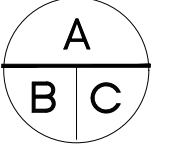
DIVISION 10 - SPECIALTIES

- Washroom Accessories shall be as noted on drawings.
- Toilet partitions: Series 40 plastic laminate high pressure toilet partitions as supplied by General Partitions with all required hardware and fasteners to produce a complete job. Colour selection by Consultant, from manufacturer's colour range. Products as manufactured by Columbia Partitions and Decolam Inc. are an approved alternate. Equip each door with hinges, latch set, and each stall with coat hook mounted on door, mounting height 4'-0" (1200mm) above finish floor. Adjust and align hardware for proper function. Set door open position at 30 degrees to front.


ISSUED FOR PERMIT/TENDER	07/05/2018	△
revisions	date	no.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY TO THIS FIRM BEFORE PROCEEDING WITH THE WORK

- A - detail no.
- B - location sheet
- C - detail sheet



SPRIET ASSOCIATES



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BROOKE-ALVINSTON ARENA RENOVATIONS
MUNICIPALITY OF
BROOKE-ALVINSTON
3310 WALNUT ST.
ALVINSTON, ON

drawing title :	
SPECIFICATIONS	
date : JULY 5, 2018	drawing no. :
scale : AS NOTED	A7
drawn by : MDO	
project no. : 217154	

MAKEUP AIR UNIT SCHEDULE								
DWG REF	MANUF.	MODEL	AIR FLOW [CFM] (L/S)	EXTERNAL STATIC PRESSURE [in.wg] (PA)	HEATING INPUT (kW)	ELEC		REMARKS
						VOLTAGE		
MUA-101	THERMOLEC	FER-8-6-208/3	300 (142)	0.25 (62)	2.5	208/1/60		-C/W AIR PROVING SWITCH, AND DISCHARGE AIR SENSOR.

APPROVED MANUFACTURERS:
THERMOLEC, ENGINEERED AIR, MODINE, BOUSQUET

KITCHEN EXHAUST HOOD SCHEDULE						
DWG REF	MANUF.	MODEL	EXHAUST LENGTH [IN] (m)	EXHAUST AIRFLOW [CFM] (L/S)	EXHAUST S.P. [IN W.C.] (Pa)	REMARKS
EH-101	SPRING AIR	FD-S-3.5/2	42 (1.07)	440 (208)	0.41 (102)	-

APPROVED MANUFACTURERS:
CAPTIVE AIRE, SPRING AIR

DIFFUSER SCHEDULE				
DWG REF	MANUF.	MODEL	FINISH	REMARKS
S1	E.H.PRICE	SCD	B12	SQUARE CONE DIFFUSER, STEEL CONSTRUCTION, 3 CONES REMOVABLE FROM THE DIFFUSER FACE, C/W EQUALIZING GRID.
E1	E.H.PRICE	80	B12	EGG CRATE GRILLE, EXTRUDED ALUMINUM CONSTRUCTION, C/W VOLUME DAMPER.

GENERAL NOTE: MOUNTING FRAME TO SUIT CEILING TYPES. SEE ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR CEILING TYPES. PROVIDE INTEGRAL FIRE STOP FLAPS WHERE FIRE DAMPERS ARE INDICATED ON DRAWINGS.
APPROVED MANUFACTURERS:
E.H.PRICE, NAILOR, TITUS, KRUEGER

PIPING LEGEND	
ITEM	DESCRIPTION
---	NEW ITEM
---	EXISTING ITEM TO REMAIN
---	EXISTING ITEM TO BE REMOVED
---	BELOW FLOOR PIPING
---	DOMESTIC COLD WATER (DCW)
---	DOMESTIC HOT WATER (DHW)
---	SANITARY DRAIN
---	NATURAL GAS
---	BALL VALVE
---	ELBOW TURNED UP
---	ELBOW TURNED DOWN
---	PIPE CAP
---	PIPE SINGLE LINE CUTOFF
---	FLOOR CLEAN OUT
---	FLOOR CLEAN OUT
---	FLOOR DRAIN; FFD: FUNNEL FLOOR DRAIN; HD: HUB DRAIN
---	FEX

THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON DRAWINGS.

DUCTWORK LEGEND	
SYMBOL	DESCRIPTION
---	NEW ITEM
---	EXISTING ITEM TO REMAIN
---	EXISTING ITEM TO BE REMOVED
---	EXISTING ITEM TO REMAIN
---	DUCTWORK SHOWN DOUBLE LINE
---	BALANCING DAMPER
---	NEW CONNECTION TO EXISTING
---	SUPPLY AIR GRILLE
---	SIDEWALL GRILLE C/W BALANCE DAMPER TYPICAL AT ALL SIDEWALL GRILLES
---	INTERNALLY INSULATED DUCT
---	EXTERNALLY INSULATED DUCT
---	DRAWING NOTE TAG
---	DIFFUSER TAG
---	DIFFUSER/GRILLE SIZE (AND NECK SIZE WHERE APPLICABLE)
---	AIR VOLUME (CFM OR L/S AS INDICATED)
---	DIFFUSER/GRILLE DESIGNATION (REFER TO SCHEDULE FOR TYPE)
---	EQUIPMENT TAG
---	EQUIPMENT TYPE
---	EQUIPMENT NUMBER (REFER TO SCHEDULES FOR INFO)
---	NEW DIFFUSER NOTES
---	SQUARE CONE DIFFUSER (ROUND IF SHOWN)
---	DUCT COLLAR CONNECTION SIZE AS PER GRILLE AND DIFFUSER SCHEDULE
---	FLEXIBLE DUCT - MAX. 5'-0" (1.5M)
---	DIFFUSER SUPPLY DUCT - TO BE THE SAME SIZE AS DIFFUSER COLLAR
---	BALANCE DAMPER - TYPICAL AT ALL DIFFUSER SUPPLIES
---	SUPPLY DUCT
---	EXISTING DIFFUSER NOTES
---	EXISTING DIFFUSER - RELOCATE TO NEW LOCATION AS REQUIRED TO SUIT LAYOUT
---	EX. BALANCE DAMPER - REBALANCE TO PROVIDE AIR CAPACITY INDICATED - PROVIDE NEW DAMPER IF ONE DOES NOT EXIST.
---	EXISTING/NEW SUPPLY DUCT PER DWGS

THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON DRAWINGS.

EXHAUST FAN SCHEDULE										
DWG REF	MANUF.	MODEL	AIRFLOW [CFM] (L/S)	ESP [in.wg] (PA)	MOTOR [HP]	RPM	NOISE [SONES]	ELECTRICAL	ACCESSORIES	REMARKS
EF-102	GREENHECK	SP-A190	150 (71)	0.25 (62)	FHP	1400	1.5	115/1/60	1,2,4,	CONTROL WITH LOCAL LIGHTING
EF-103	GREENHECK	SP-A90	75 (35)	0.25 (62)	FHP	900	0.4	115/1/60	1,2,4,	CONTROL WITH LOCAL LIGHTING
EF-104	PENNBARRY	FX08B	440 (208)	0.5 (124)	0.25	1103	7.8	115/1/60	7,8,11,12	GREASE EXHAUST FAN NFPA 96 COMPLIANT

APPROVED MANUFACTURERS:
GREENHECK, COOK, PENN BARRY

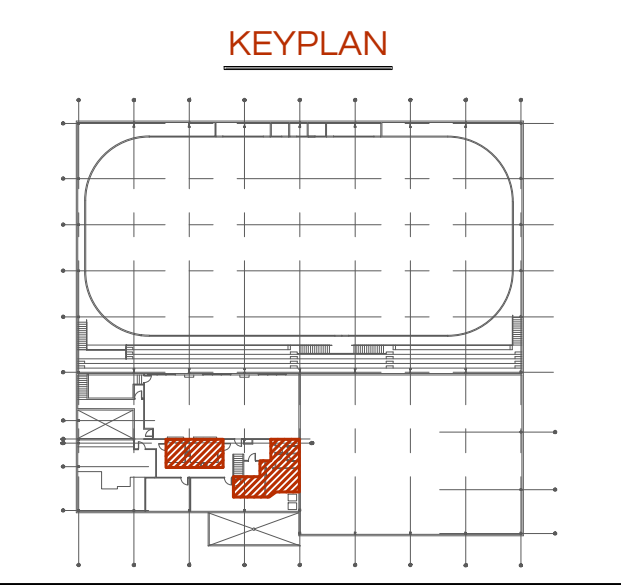
PLUMBING FIXTURE SCHEDULE					
DWG REF	DESCRIPTION	HOT	COLD	DRAIN	
WC	BOWL: AMERICAN STANDARD 6L FLUSH 2462.016 "CADET ELONGATED PA", VITREOUS CHINA WATER CLOSET WITH 3481.016 PRESSURE ASSISTED ELONGATED SIPHON JET FLUSH ACTION BOWL AND 4142.016 TANK. SUPPLY: CAMBRIDGE BRASS 47T316 FLEXIBLE CLOSET SUPPLY WITH ANGLE LOCKSHIELD STOP. SEAT: BENEKE 523 SOLID WHITE PLASTIC, OPEN FRONT WITH REMOVABLE BUMPERS, CONCEALED CHECK HINGE AND TYPE 316 STAINLESS STEEL HINGE POSTS AND TRIM.	---	1/2"	3"	
HWC	BOWL: AMERICAN STANDARD 6L FLUSH 3461.001 MADERA FLOOR MOUNTED, VITREOUS CHINA WATER CLOSET WITH ELONGATED SIPHON JET BOWL AND 40 MM (1 1/2") TOP SPUD INLET. BARRIER FREE COMPLIANT. VALVE: DELTA TECK 81T221-1 EXPOSED CHROME PLATED FLUSH VALVE, VACUUM BREAKER, 40MM (1 1/2") CONNECTION, WALL AND SPUD FLANGES. ADJUST FOR 6L FLUSH, 25MM (1") COPPER SWEAT ANGLE CHECK STOP WITH PROTECTING CAP, AND CENTER COVER BUMPER. BARRIER FREE COMPLIANT. SEAT: BENEKE 521 SOLID WHITE PLASTIC, OPEN FRONT WITH REMOVABLE BUMPERS, CONCEALED CHECK HINGE AND COVER.	---	1-1/4"	3"	
LV	LAVATORY: AMERICAN STANDARD 0476.028 "AQUALYN" VITREOUS CHINA COUNTERTOP BASIN, SELF-RIMMING WITH FRONT OVERFLOW, 100 MM (4") CENTRES. FAUCET: DELTA TECK 21T153 HEAVY DUTY CHROME PLATED CAST BRASS FAUCET WITH VANDAL-RESISTANT NON-AERATING SPRAY SPOUT, 0.5 USGPM, AND 70 MM (3") LEVER HANDLES, 4" CENTRES. SUPPLIES: DELTA 47T312 FLEXIBLE LAVATORY SUPPLIES WITH ANGLE LOCKSHIELD STOPS AND WALL FLANGES. DRAIN: DELTA 33T260, 32 MM (1 1/4") CHROME PLATED CAST BRASS DRAIN WITH INLINE WASTE STRAINER AND DELTA 33T311, 32 MM (1 1/4") TUBULAR "P" TRAP, CLEANOUT, CHROME FINISH, CAST BRASS BODY AND WALL FLANGE.	1/2"	1/2"	1-1/4"	
HLV	LAVATORY: AMERICAN STANDARD "MURRO" MODEL 0954.000 VITREOUS CHINA WALL-HUNG BASIN, REAR OVERFLOW, FORMED FOR 100 MM (4") CENTRE FAUCET SET, AND MODEL 0059.020 VITREOUS CHINA KNEE CONTACT GUARD. BARRIER FREE COMPLIANT. FAUCET: DELTA TECK 21T153 HEAVY DUTY CHROME PLATED CAST BRASS FAUCET WITH VANDAL-RESISTANT NON-AERATING SPRAY SPOUT, 0.5 USGPM, AND 70 MM (3") LEVER HANDLES, 4" CENTRES. BARRIER FREE COMPLIANT. SUPPLIES: DELTA 47T512 CHROME PLATED FLEXIBLE SUPPLIES WITH LOCKSHIELD STOPS AND WALL FLANGES. BARRIER FREE COMPLIANT. WASTE: DELTA 33T290, 32 MM (1 1/4") CHROME PLATED CAST BRASS DRAIN WITH OFFSET INLINE WASTE STRAINER AND DELTA 33T311, 32 MM (1 1/4") TUBULAR "P" TRAP, CLEANOUT, CHROME FINISH, CAST BRASS BODY AND WALL FLANGE. BARRIER FREE COMPLIANT. CARRIER: WATTS CA SERIES HEAVY DUTY CARRIERS FOR WALL-HUNG LAVATORIES WITH CONCEALED ARM SUPPORT AND PIPE UPRIGHTS WELDED TO STEEL BASE PLATES.	1/2"	1/2"	1-1/4"	
UR	URINAL: AMERICAN STANDARD "WASHBROOK" NO. 6501.610 VITREOUS CHINA, WASHDOWN FLUSH ACTION, 20 MM (3/4") TOP SPUD, INTEGRAL FLUSH SPREADER, OPEN TRAP, STAINLESS STEEL REMOVABLE STRAINER AND 50 MM (2") OUTLET CONNECTION. VALVE: DELTA TECK 81T231 EXPOSED FLUSH VALVE WITH VACUUM BREAKER, NON HOLD OPEN HANDLE. VANDAL RESISTANT COVER, WITH COVER TUBE, WALL FLANGE, AND SPUD NUT. 19MM (3/4") TOP SPUD, SCREWDRIVER ANGLE STOP. BARRIER FREE COMPLIANT. CARRIER: WATTS CA-311 HEAVY DUTY URINAL CARRIER WITH PIPE UPRIGHTS WELDED TO STEEL BASE PLATES.	---	3/4"	2"	
HS	SINK: FRANKE MODEL LBS1306 SINGLE BOWL SINK, 20 GAUGE TYPE 302 STAINLESS STEEL, WITH BACKLEDGE AND UNDERCOATING, FACTORY APPLIED RIM SEAL, COMPLETE WITH CRUMB CUP STRAINER IN BOWL CENTRE, AND TAILPIECE. OVERALL DIMENSIONS 380MM X 380MM X 150MM (15" X 15" X 6" D). BACKLEDGE CENTRES DRILLED FOR 100 MM (4") DECK-MOUNTED FAUCET. FAUCET: DELTA 2171-WBHHDF DECK MOUNT FAUCET WITH 270MM (10-5/8") HEAVY DUTY RIGID/SWIVEL GOOSENECK, 100 MM (4") CENTRES, VANDAL-RESISTANT FLOW CONTROL AERATOR, AND LEVER HANDLES. FOR TWO HOLE APPLICATIONS. WASTE: DELTA 33T360, 40 MM (1 1/2") CP CAST BRASS "P" TRAP WITH CLEANOUT AND WALL FLANGE.	1/2"	1/2"	1-1/4"	
KS	SINK: FRANKE MODEL LBD6408 DOUBLE SINK, 20 GAUGE TYPE 302 STAINLESS STEEL, WITH BACKLEDGE AND UNDERCOATING, FACTORY APPLIED RIM SEAL, TWO CRUMB CUP STRAINERS IN BACK OF BOWLS, AND TAILPIECES. OVERALL DIMENSIONS 530MM X 790MM X 200MM (21" X 31" X 8"). BACKLEDGE CENTRES DRILLED FOR 200 MM (8") DECK-MOUNTED FAUCET. FAUCET: DELTA TECK 26T3143 DECKMOUNT FAUCET, C.P. CAST BRASS WITH 200 MM (8") SWING SPOUT, VANDAL-RESISTANT CONTROL FLOW AERATOR, 75 MM (3") LEVER HANDLES, BRASS CONNECTIONS AND TAILPIECE LOCKNUTS. WASTE: DELTA 33T360, 40 MM (1 1/2") CP CAST BRASS "P" TRAP WITH CLEANOUT AND WALL FLANGE.	1/2"	1/2"	1-1/2"	
FD	FLOOR DRAIN- EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND NICKEL BRONZE STRAINER, AND NO HUB (STANDARD) OUTLET. WATTS DRAINAGE - MODEL: FD-100-A	---	---	3"	
DW	BY OWNER. CONNECT DISHWASHER SUPPLY TO ADJACENT KITCHEN SINK SUPPLY WITH STAINLESS STEEL BRAIDED FLEX-HOSE, AND CONNECT DRAIN UPSTREAM OF ADJACENT KITCHEN SINK P-TRAP WITH FLEXIBLE DRAIN HOSE.	1/2"	---	5/8"	

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REVISIONS		
NO.	REVISIONS	DATE
00	PERMIT & TENDER	18.06.05

NORTH

REGISTERED PROFESSIONAL ENGINEER
M.J. VAN GILST
100074075
K. 06, 05
PROVINCE OF ONTARIO

DESIGN	BCD	DRAWN	BCD
CHECKED	MVG	REVIEWED	MVG

PROJECT
BROOKE-ALVINSTON
ARENA RENOVATIONS

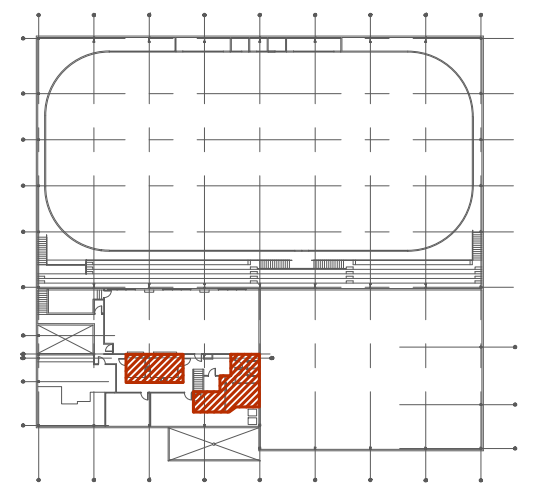
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ALVINSTON, ON

PROJECT NO.
CE-4016

DRAWING TITLE
SCHEDULES &
LEGENDS

DRAWING NUMBER
M1 OF 5

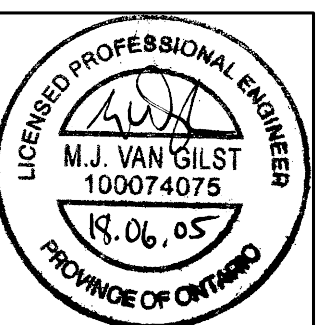
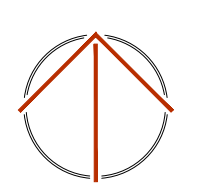
KEYPLAN



REVISIONS

NO.	REVISIONS	DATE
00	PERMIT & TENDER	18.06.05

NORTH



DESIGN	BCD	DRAWN	BCD
CHECKED	MVG	REVIEWED	MVG

PROJECT

BROOKE-ALVINSTON
ARENA RENOVATIONS

ADDRESS

3310 WALNUT ST.,
ALVINSTON, ON

PROJECT NO.

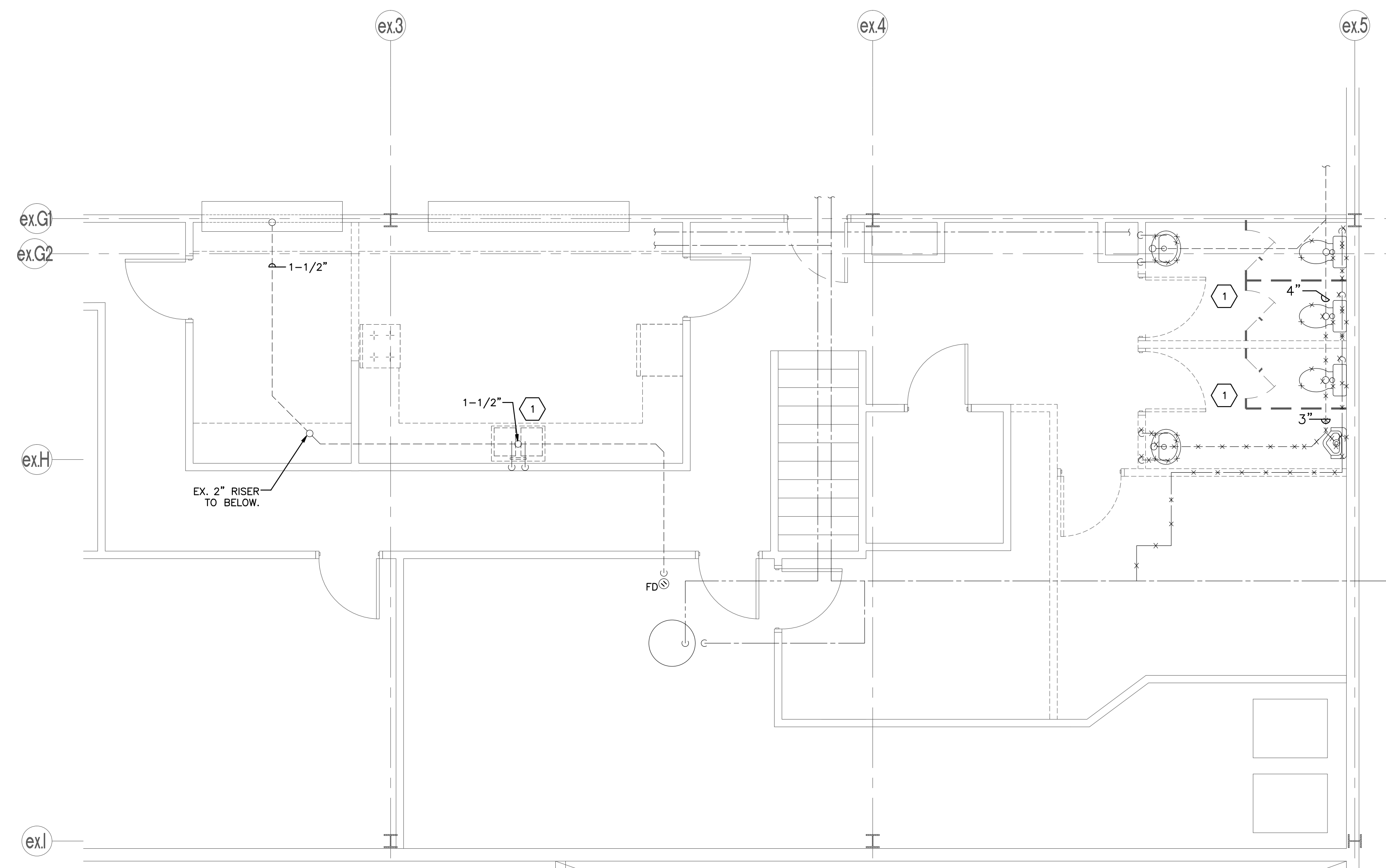
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DEMO LAYOUTS

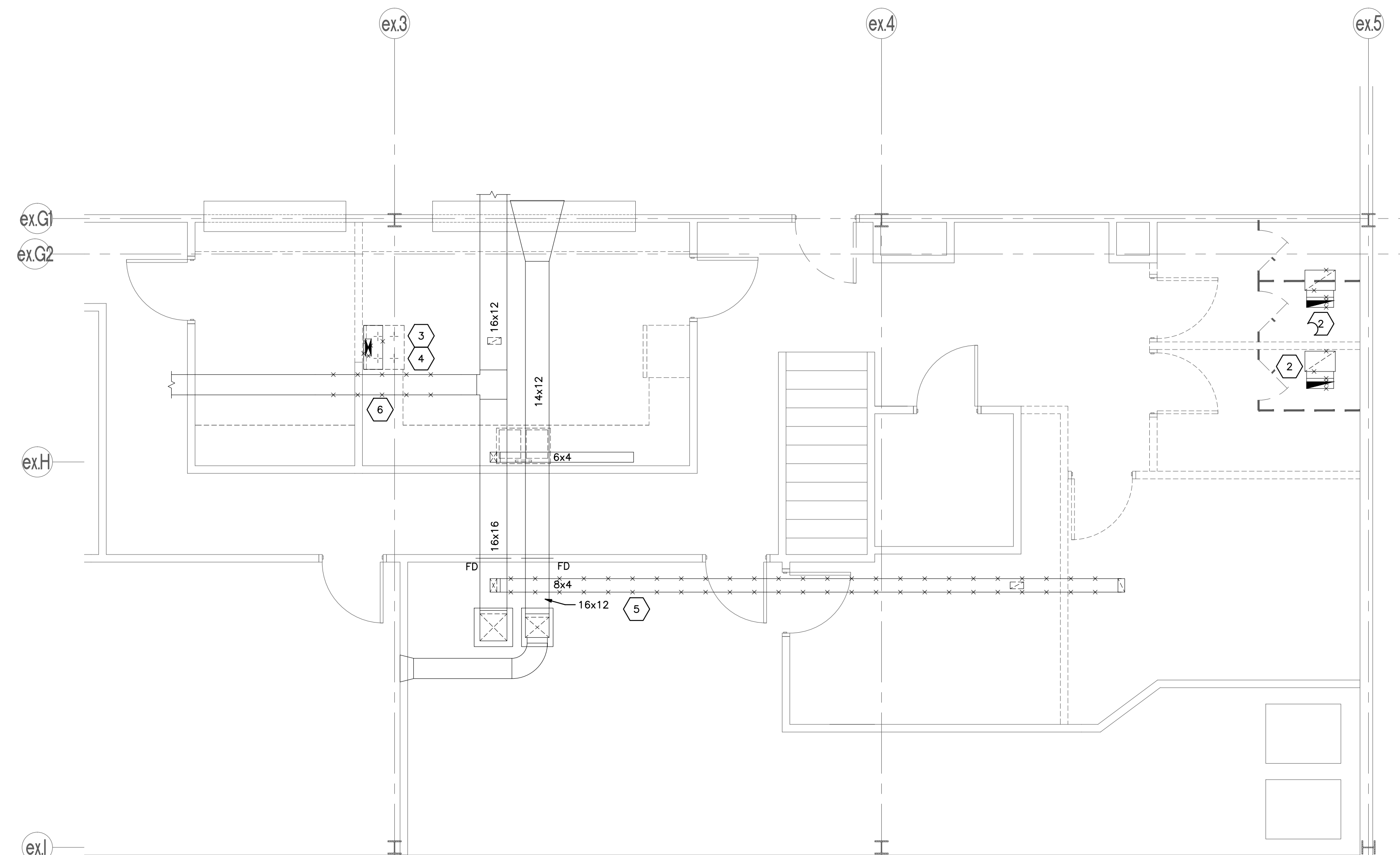
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M2 OF 5



DEMO PLUMBING LAYOUT

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

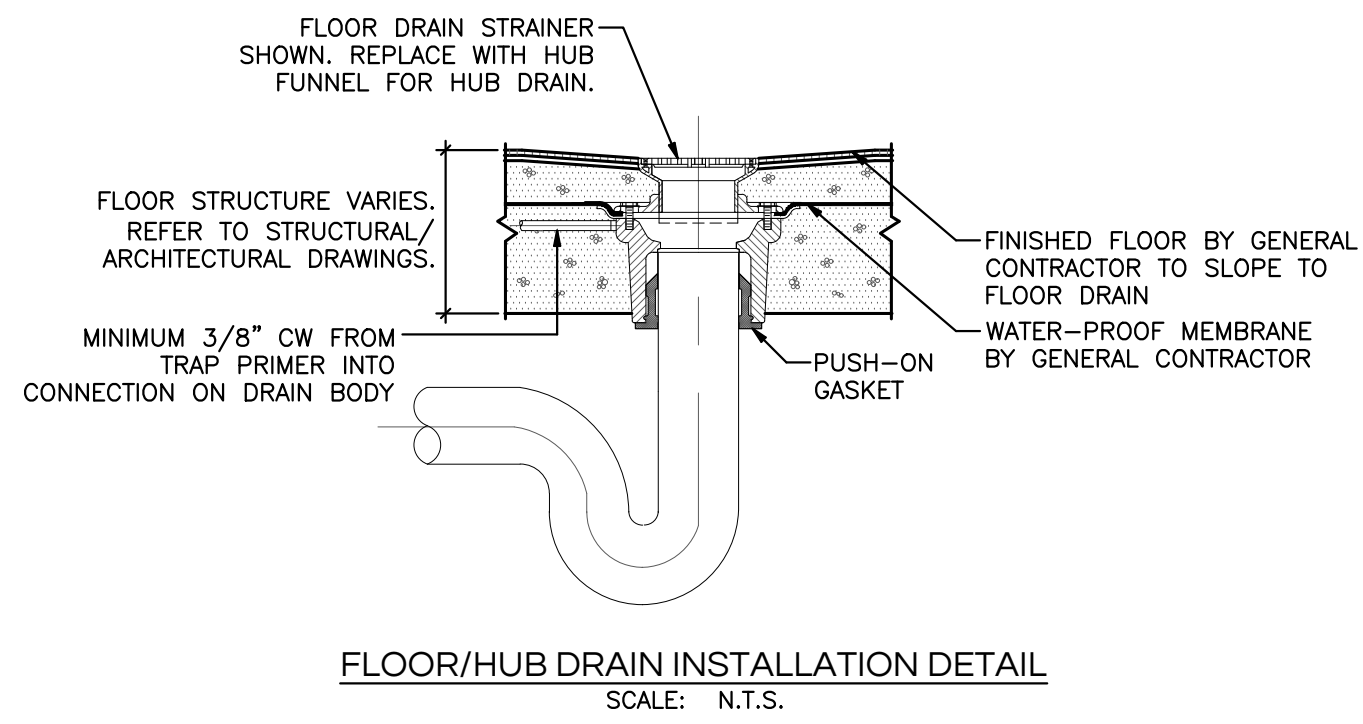


DEMO HVAC LAYOUT

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

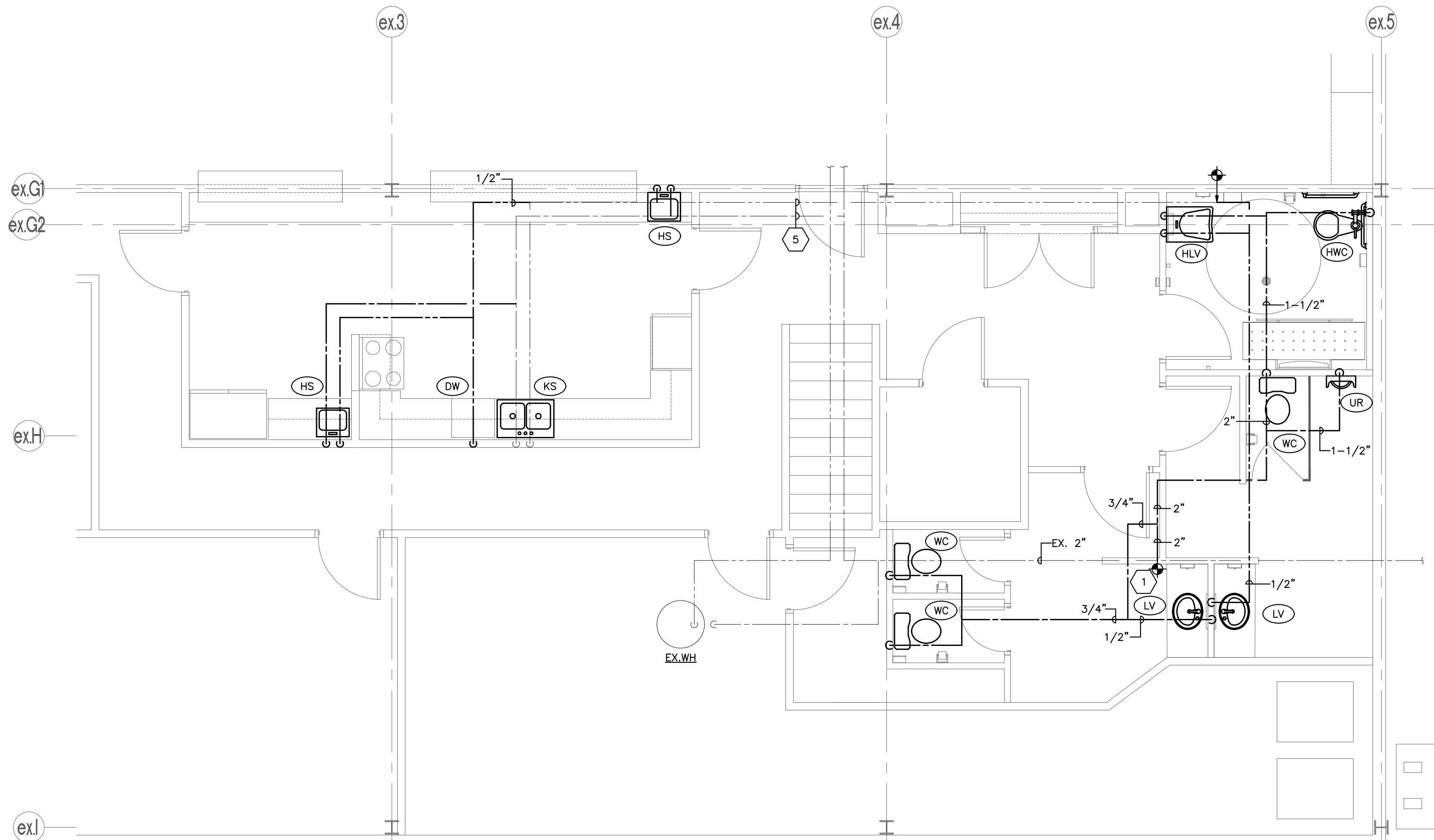
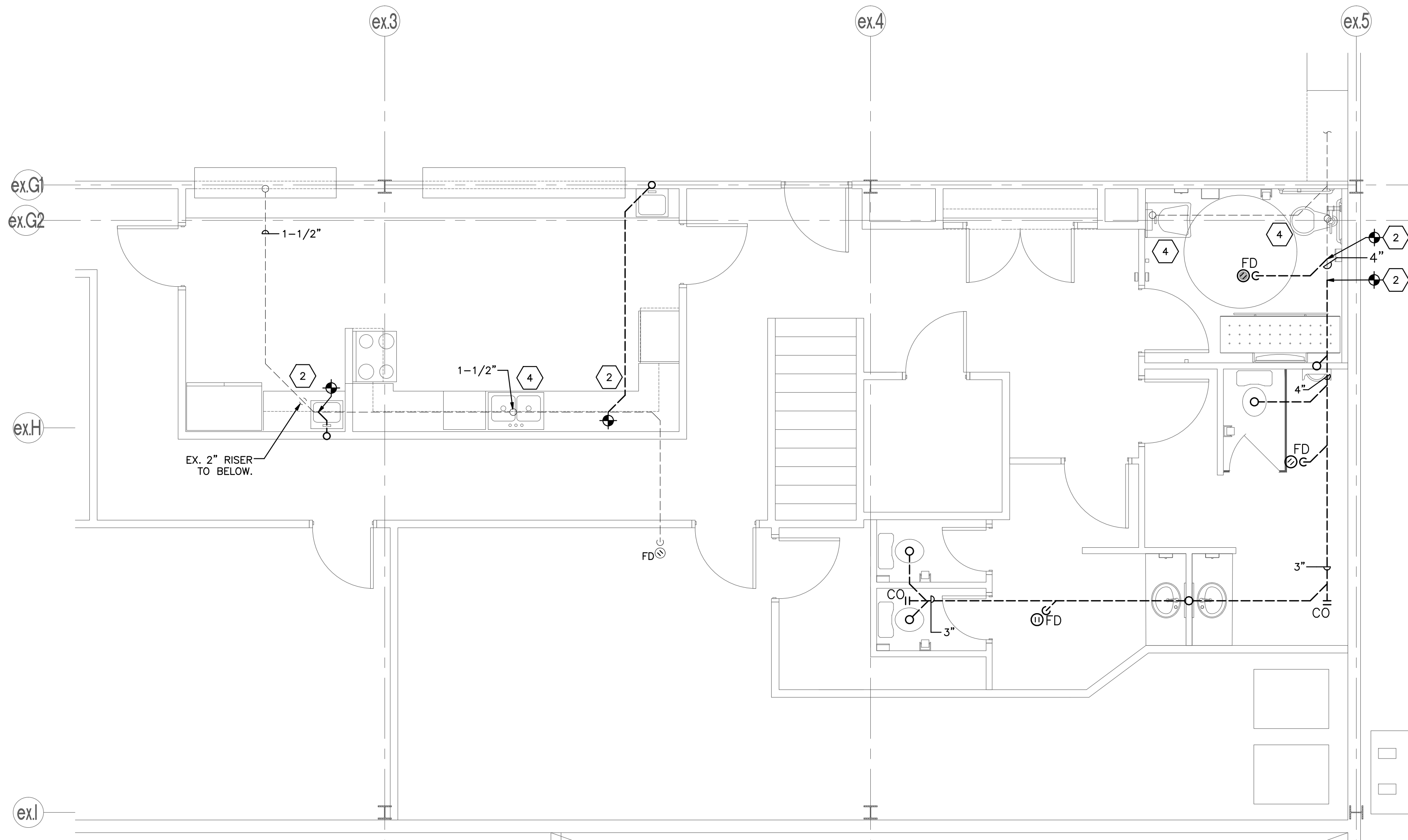
DEMO NOTES (INDICATED WITH HEXAGONS):

1. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED DOMESTIC WATER BACK TO MAINS. MODIFY EXISTING SANITARY AS REQUIRED TO SERVE NEW FIXTURES. CAP SANITARY LINES OF UNUSED CONNECTIONS FLUSH WITH FLOOR LEVEL.
2. REMOVE EXISTING WASHROOM EXHAUST FANS AND ALL ASSOCIATED DUCTWORK AND PATCH ROOF..
3. REMOVE EXISTING RANGE HOOD AND ALL ASSOCIATED DUCT WORK AND ACCESSORIES.
4. REMOVE EXISTING GAS CONNECTION TO EXISTING OVEN. CAP AT MAIN.
5. REMOVE EXISTING SUPPLY DUCT SERVING STORAGE SPACES. PATCH AND MAKE MAIN DUCT GOOD.
6. REMOVE EXISTING SUPPLY DUCT IN THIS LOCATION.

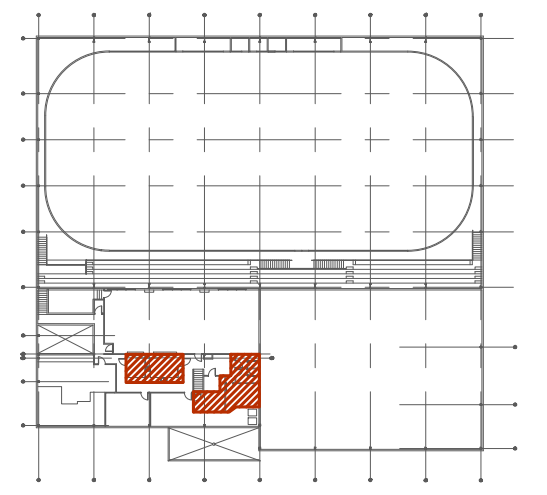


TYPICAL PLUMBING NOTES (INDICATED WITH HEXAGONS):

1. CONNECT TO EXISTING 2" DCW MAIN IN THIS APPROXIMATE LOCATION.
2. CONNECT NEW SANITARY PIPING TO EXISTING AS SHOWN IN THIS APPROXIMATE LOCATION.
3. CONNECT NEW DHW PIPING TO EXISTING MAIN IN THIS APPROXIMATE LOCATION. CONFIRM LOCATION AND SIZE ON SITE.
4. MODIFY EXISTING DOMESTIC AND SANITARY PIPING AS REQUIRED FOR NEW PLUMBING FIXTURES.
5. CONFIRM SIZE AND LOCATION OF EXISTING WATER MAINS SERVING KITCHEN AREA. MINIMUM 1/2" DCW AND 3/4" DHW MAINS TO SERVE SPACE.



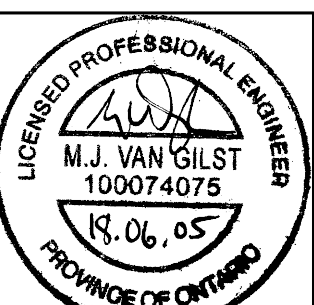
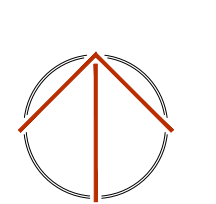
KEYPLAN



REVISIONS

NO.	REVISIONS	DATE
00	PERMIT & TENDER	18.06.05

NORTH



DESIGN	BCD	DRAWN	BCD
CHECKED	MVG	REVIEWED	MVG

PROJECT

BROOKE-ALVINSTON
ARENA RENOVATIONS

ADDRESS

3310 WALNUT ST.,
ALVINSTON, ON

PROJECT NO.

CE-4016

DRAWING TITLE

PLUMBING LAYOUTS

DRAWING NUMBER

M3 OF 5

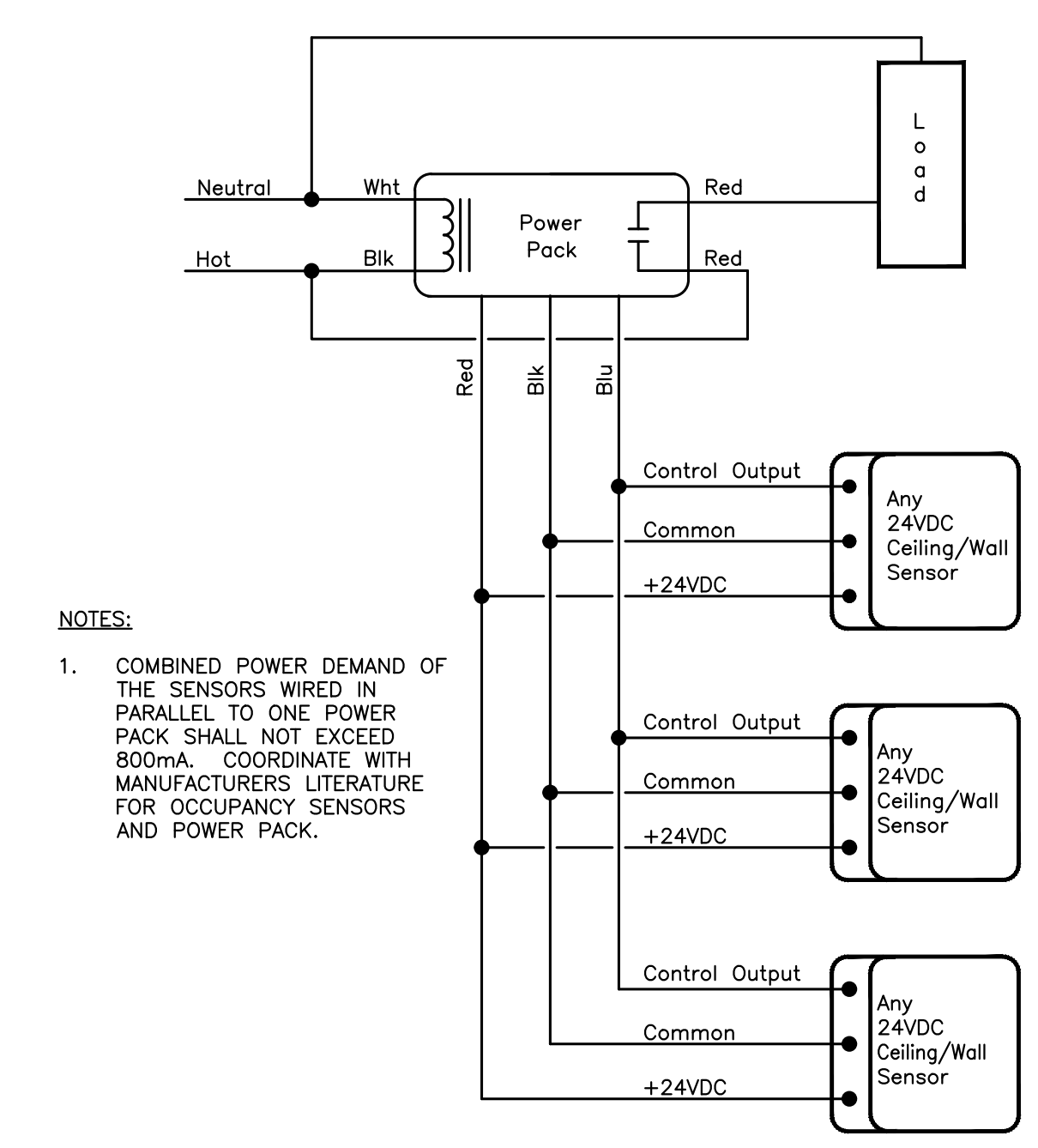
WIRING FOR MECHANICAL EQUIPMENT SCHEDULE																	
LABEL	DESCRIPTION	LOCATION	VOLT	PH	HP	WATTS	MCA	ISO SWITCH	P	POWER WIRING	CONTROL BY DIV. 16	SOURCE PANEL	DISC AMP	FUSE	BRK	P	REMARKS
EF-101	EXHAUST FAN	WOMEN'S	120	1	FHP	-	-	-	-	2#12+GND	LTG OS	EXISTING	-	-	15	1	-
EF-102	EXHAUST FAN	MEN'S	120	1	FHP	-	-	-	-	2#12+GND	LTG OS	EXISTING	-	-	15	1	-
EF-103	EXHAUST FAN	UNIVERSAL	120	1	FHP	-	-	-	-	2#12+GND	LTG OS	EXISTING	-	-	15	1	-
EF-104	EXHAUST FAN	KITCHEN	120	1	1/4	-	-	15	1	2#12+GND	-	EXISTING	-	-	15	1	-
EH-101	KITCHEN EXHAUST HOOD	KITCHEN	120	1	FHP	-	-	15	1	2#12+GND	-	EXISTING	-	-	15	1	-
MUA-101	MAKE-UP AIR UNIT	KITCHEN	208	1	-	2500	-	20	2	3#12+GND	-	EXISTING	-	-	20	2	-

ABBREVIATIONS:										NOTES:				
CONT	-	CONTACTOR, SIZE AS INDICATED	OS	-	OCCUPANCY SENSOR	1. INSTALL ALL WIRING IN CONDUIT WITH SHORT LENGTH LIQUID TIGHT FLEX TO MOTOR OR VIBRATING EQUIPMENT. 2. WIRE THROUGH TC OR RAT SUPPLIED BY DIVISION 15.								
COMB	-	COMBINATION DISCONNECT & STARTER	RAT	-	REVERSE ACTING THERMOSTAT									
FVNR	-	FULL VOLTAGE NON REVERSING STARTER	R	-	RELAY									
HOA	-	HAND OFF AUTO SWITCH C/W ON PILOT LIGHT	RFB	-	REMOTE PUSH BUTTON OFF									
MAN	-	MANUAL MOTOR SWITCH C/W PILOT LIGHT	SW	-	LIGHT SWITCH									
			TC	-	7 DAY PROGRAMMABLE TIMECLOCK									
			TS	-	TIMER SWITCH									
			WP	-	WEATHER PROOF									

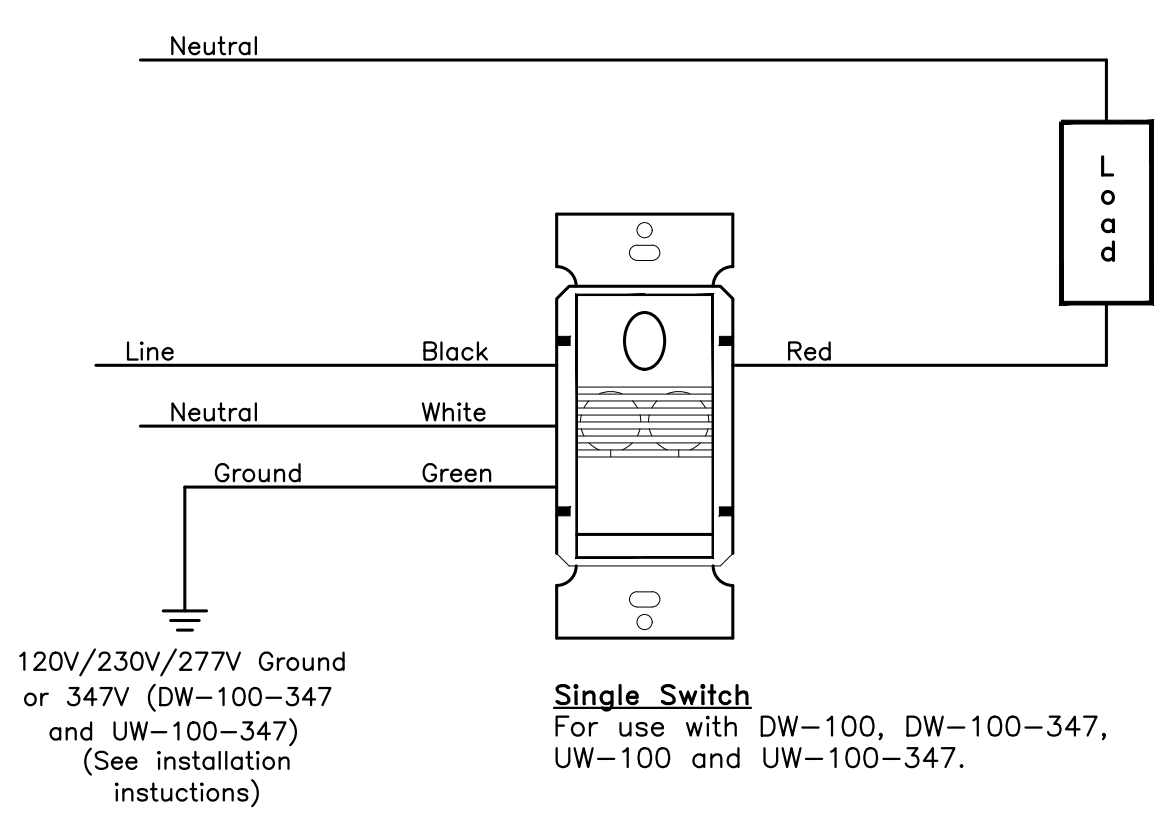
ELECTRIC HEATER SCHEDULE							
TYPE	DESCRIPTION	MOUNTING	CONTROL	MANUFACTURER/MODEL NUMBER	WATTAGE	VOLTAGE	REMARKS
EBB-0.3	ELECTRIC BASEBOARD HEATER	SURFACE	REMOTE T-STAT	STELPRO B308	300	208	-

EMERGENCY LIGHTING SCHEDULE							
UNIT	MANUFACTURER	DESCRIPTION	MODEL No.	WATTAGE	VOLTAGE	# OF HEADS	TIME
EB.1	LUMACELL	EMERGENCY LIGHTING BATTERY PACK	RG12S 72	72	120/12	0	30
HEADS	LUMACELL	EMERGENCY LIGHTING REMOTE HEADS	M QM 1/2 LD9	5	12	1/2	30

LIGHTING FIXTURE SCHEDULE				
SYMBOL	DESCRIPTION	VOLTAGE	LAMPS	MOUNTING
AA	1x4 RECESSED LED FIXTURE WITH RIBBED ACRYLIC LENS. PHILIPS: 1 AVE G 38L 840 4 ACR UNV DIM	120	LED 40.4W 4000K 3,908L	RECESSED T-BAR
AB	1x4 RECESSED LED FIXTURE WITH RIBBED ACRYLIC LENS. PHILIPS: 1 AVE G 32L 835 4 ACR UNV DIM	120	LED 30.7W 3500K 3,168L	RECESSED T-BAR
BA	4" RECESSED LED POT LIGHT WITH CLEAR REFLECTOR AND 0-10V DIMMING PHILIPS: P4RD10Z10UVB; P4RD827VB; P4RDCL	120	LED 11.3W 2700K 1,000L	RECESSED T-BAR
CA	4' LED CUBELIGHT VANITY FIXTURE PHILIPS: CSW 48 28 35 120 DZT Z0	120	LED 31.0W 3500K 2,751L	WALL MOUNT Ø7"-0" A.F.F. CONFIRM WITH ARCH.
DA	4' SUSPENDED LED STRIPLIGHT C/W FACTORY INSTALLED MOTION SENSOR ON ENDCAP PHILIPS: FSS 4 55L 840 120 DIMLSXR10	120	LED 45W 4000K 5,759L	SUSPENDED Ø8"-0" A.F.F.



OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: NTS



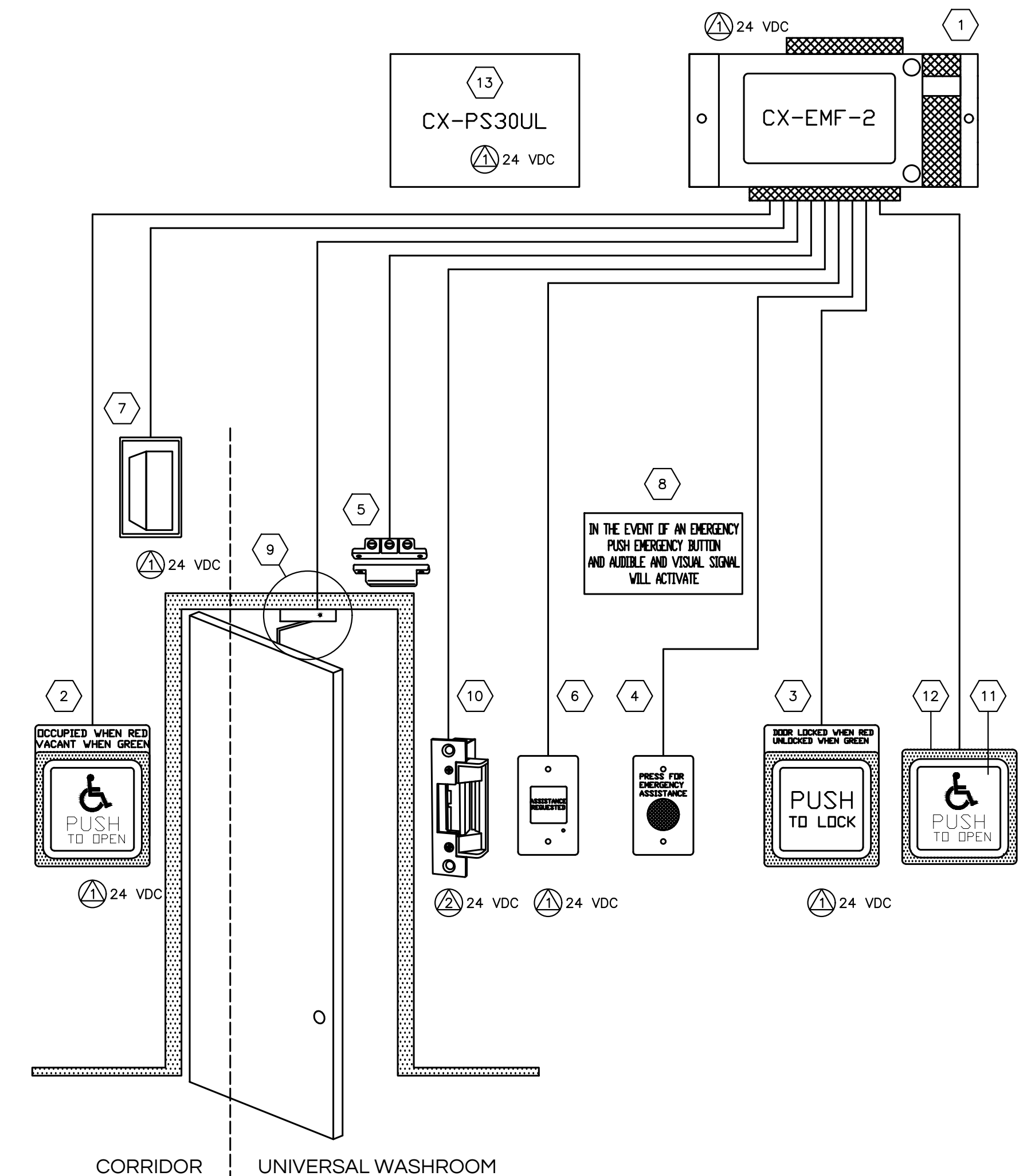
WALL OCCUPANCY SENSOR SWITCH
SCALE: NTS

SYSTEM COMPONENT LIST					
MODEL	DESCRIPTION	EQUIPMENT PACKAGE	DRAWING SYMBOL		
1 CX-EMF-2	MULTI-FUNCTION RELAY	CX-WC14FM	TR		
2 CM-45/8GRFSE1	4 1/2" ILLUMINATED PUSH PLATE W/ ENCLOSURE AND SIGN	CX-WC14FM	PL		
3 CM-45/4GRFSE1	4 1/2" ILLUMINATED PUSH PLATE W/ ENCLOSURE AND SIGN	CX-WC14FM	PL		
4 CM-450/12R	"PRESS FOR EMERGENCY ASSISTANCE" PUSH BUTTON	CM-WC14FM	EBAL		
5 CX-MDC	MAGNETIC DOOR CONTACT	CX-WC14FM			
6 CM-AF501S0	'ASSISTANCE REQUIRED' LED ANNUNCIATOR W/ ADJUSTABLE SOUNDER	CX-WEC10	AS		
7 CM-AF140S0	'ASSISTANCE REQUIRED' SINGLE GANG DOME LIGHT W/ SOUNDER	CX-WEC10	AS		
8 CM-SE21A	EMERGENCY ASSISTANCE SIGN	CX-WEC10			
9 -	DOOR OPERATOR	BY OTHERS	DO		
10 CX-ED2079	GRADE 2 UNIVERSAL ELECTRIC STRIKE	BY CAMDEN	ES		
11 CM-45/A	4 1/2" SQUARE ACTIVATION SWITCH	BY CAMDEN	PL		
12 CM-55CBL	FLUSH MOUNT BOX FOR CM-45/4	BY CAMDEN			
13 CX-PS30UL	3A,12/24VDC LINEAR POWER SUPPLY	BY CAMDEN			

NOTE: SYSTEM BASED ON COMPONENTS PROVIDED BY CAMDEN DOOR CONTROLS FOR A COMPLETE OPERATING SYSTEM. OTHER SYSTEMS MUST BE SUBMITTED AND APPROVED AT TIME OF TENDER TO BE CONSIDERED.

SYSTEM OPERATION SEQUENCE:
CX-WC14FM OPERATION:

- THE DOOR IS NORMALLY CLOSED AND UNLOCKED.
- THE EXTERIOR 'PUSH TO OPEN' AURA ILLUMINATED PUSH PLATES SWITCH OUTER RING, ON ALL DOORS, IS GREEN INDICATING THE RESTROOM IS VACANT.
- PRESSING THE 'PUSH TO OPEN' SWITCH WILL OPEN THE DOOR.
- ONCE THE DOOR IS CLOSED, PRESSING THE 'PUSH TO LOCK' AURA ILLUMINATED PUSH PLATE SWITCH WILL LOCK BOTH DOORS IN THAT RESTROOM.
- THE 'PUSH TO LOCK' OUTER RING WILL GLOW RED INDICATING THE DOOR IS LOCKED. ALSO, THE EXTERIOR AURA™ ILLUMINATED PUSH PLATE RINGS WILL GLOW RED INDICATING THE RESTROOM IS OCCUPIED.
- WHILE THE RESTROOM IS OCCUPIED, PRESSING THE "PRESS FOR EMERGENCY ASSISTANCE" PUSH BUTTON WILL SEND A SIGNAL TO THE ASSISTANCE REQUIRED APPLIANCE AND UNLOCK THE DOOR. THE ACTIVATION OF THE "PRESS FOR EMERGENCY ASSISTANCE" PUSH BUTTON WILL ACTIVATE THE CX-WEC10 SYSTEM TO:
 - ENERGIZE THE LED ANNUNCIATOR AND SOUNDER WITHIN THE WASHROOM, AND THE DOME LIGHT WITH SOUNDER OUTSIDE THE WASHROOM.
 - BOTH ANNUNCIATORS WILL BE ENERGIZED UNTIL THE CALL IS DISCONNECTED BY THE ERC.
- PRESSING THE INTERIOR ALL-ACTIVE PUSH PLATE SWITCH WILL OPEN THE DOOR AND RESET THE SYSTEM.
- IF THE DOOR IS OPENED MANUALLY TO EXIT THE RESTROOM, THE OVERHEAD MAGNETIC CONTACT SWITCH RESETS THE SYSTEM.
- IF THE TIME-OUT FUNCTION OF THE CX-EMF-2 IS CONFIGURED, THE RESTROOM DOOR WILL AUTOMATICALLY UNLOCK AFTER A PERIOD OF TIME AND THE 'ASSISTANCE REQUIRED' SIGNAL APPLIANCE WILL ACTIVATE, ALLOWING ATTENDANT STAFF (PRIMARYLY IN HEALTH CARE FACILITIES) TO INTERCEDE.



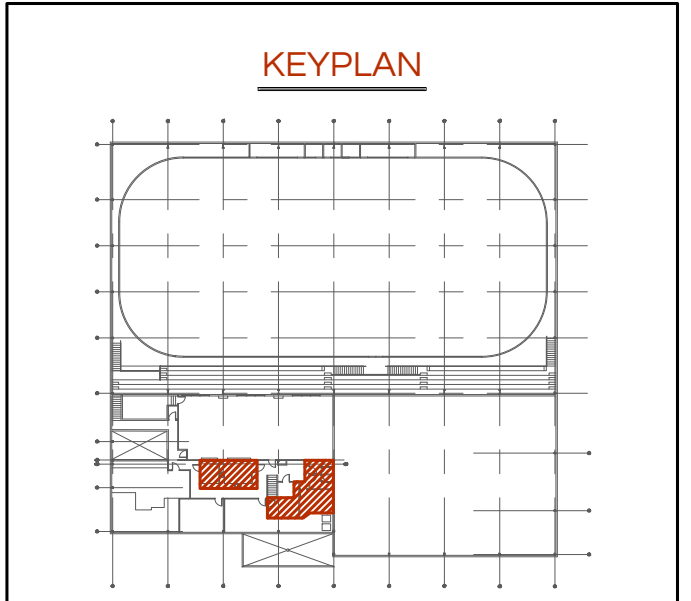
DETAIL #1 - EMERGENCY CALL WIRING DIAGRAM - UNIVERSAL WASHROOM
SCALE: NTS

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	1'x4' LIGHT FIXTURE
	4' STRIP LIGHT
	LIGHT FIXTURE REFER TO DRAWINGS FOR TYPE
	WALL SCONCE
	SWITCH
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR SWITCH
	SPEED CONTROLLER
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	GFI RECEPTACLE
	DIRECT CONNECTION
	SPLIT RECEPTACLE
	OVER COUNTER
	EXISTING FIXTURE
	REMOVE EXISTING FIXTURE
	RELOCATE EXISTING FIXTURE
	RELOCATED EXISTING FIXTURE
	ELECTRIC BASEBOARD HEATER
	ELECTRICAL PANEL
	MOTOR OR MOTORIZED PIECE OF EQUIPMENT
	DISCONNECT SWITCH
	CIRCUIT WIRE
	TELEPHONE OUTLET
	TELEPHONE/DATA OUTLET
	DATA OUTLET
	CABLE OUTLET
	ELECTRICAL THERMOSTAT
	PUSH BUTTON (PL-PUSH TO LOCK)
	EMERGENCY LIGHTING BATTERY
	EMERGENCY LIGHT HEADS - SINGLE AND DOUBLE
	EXIT SIGNS (CURRENT OBC)
	COMBINATION EMERGENCY LIGHT, BATTERY PACK AND EXIT SIGN
	FIRE ALARM ANUNCIATOR
	FIRE ALARM CONTROL PANEL
	MANUAL PULL STATION
	HEAT DETECTOR
	AUDIBLE SIGNAL DEVICE WALL
	VISUAL SIGNAL DEVICE WALL
	AUDIBLE VISUAL SIGNAL DEVICE WALL

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REVISIONS		
NO.	REVISIONS	DATE
00	PERMIT & TENDER	18.06.05

NORTH

LICENSED PROFESSIONAL ENGINEER
LCELA
100138396
Karl J. Jankovic
PROVINCE OF ONTARIO

DESIGN	PIK	DRAWN	PIK
CHECKED	IC	REVIEWED	IC

PROJECT
BROOKE-ALVINSTON
ARENA RENOVATIONS

ADDRESS
3310 WALNUT ST.,
ALVINSTON, ON

PROJECT NO.
CE-4016

DRAWING TITLE
ELECTRICAL
SCHEDULES AND DETAILS

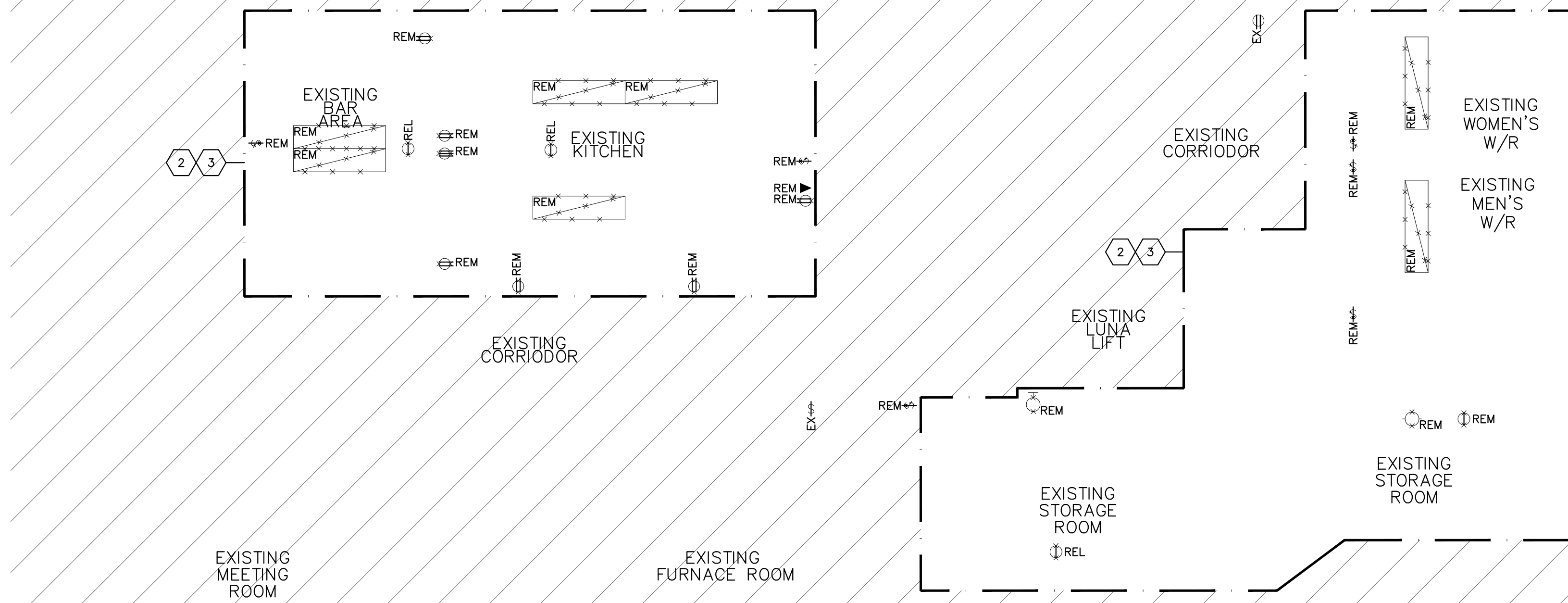
DRAWING NUMBER
E1 OF 3

DRAWING NOTES (INDICATED WITH HEXAGONS):

- EXISTING ELECTRICAL DISTRIBUTION AND METERING TO REMAIN AS IS FOR THIS SCOPE OF WORK.
- NOT ALL ELECTRICAL DEVICES ARE SHOWN HERE-IN. CONTRACTOR TO REVIEW BY CONFIRMING ON SITE. PROVIDE ANY DISCREPANCIES TO CONSULTANT FOR FINAL REVIEW AND APPROVAL PRIOR TO ANY WORK ACTIVITY.
- REMOVE EXISTING WIRING AND CONDUIT FOR REMOVED EQUIPMENT THAT WILL NOT BE RE-USED FOR NEW WORK BACK TO SOURCE PANEL AND LABEL CIRCUIT BREAKER AS "SPARE".

GENERAL DEMOLITION NOTES:

- NOT ALL EXISTING DEVICES AND FIXTURES ARE SHOWN HEREIN. CONTRACTOR TO VERIFY ON SITE AND NOTIFY CONSULTANT OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- RE-USE OF EXISTING CABLES SUBJECT TO CURRENT CODE REQUIREMENTS.

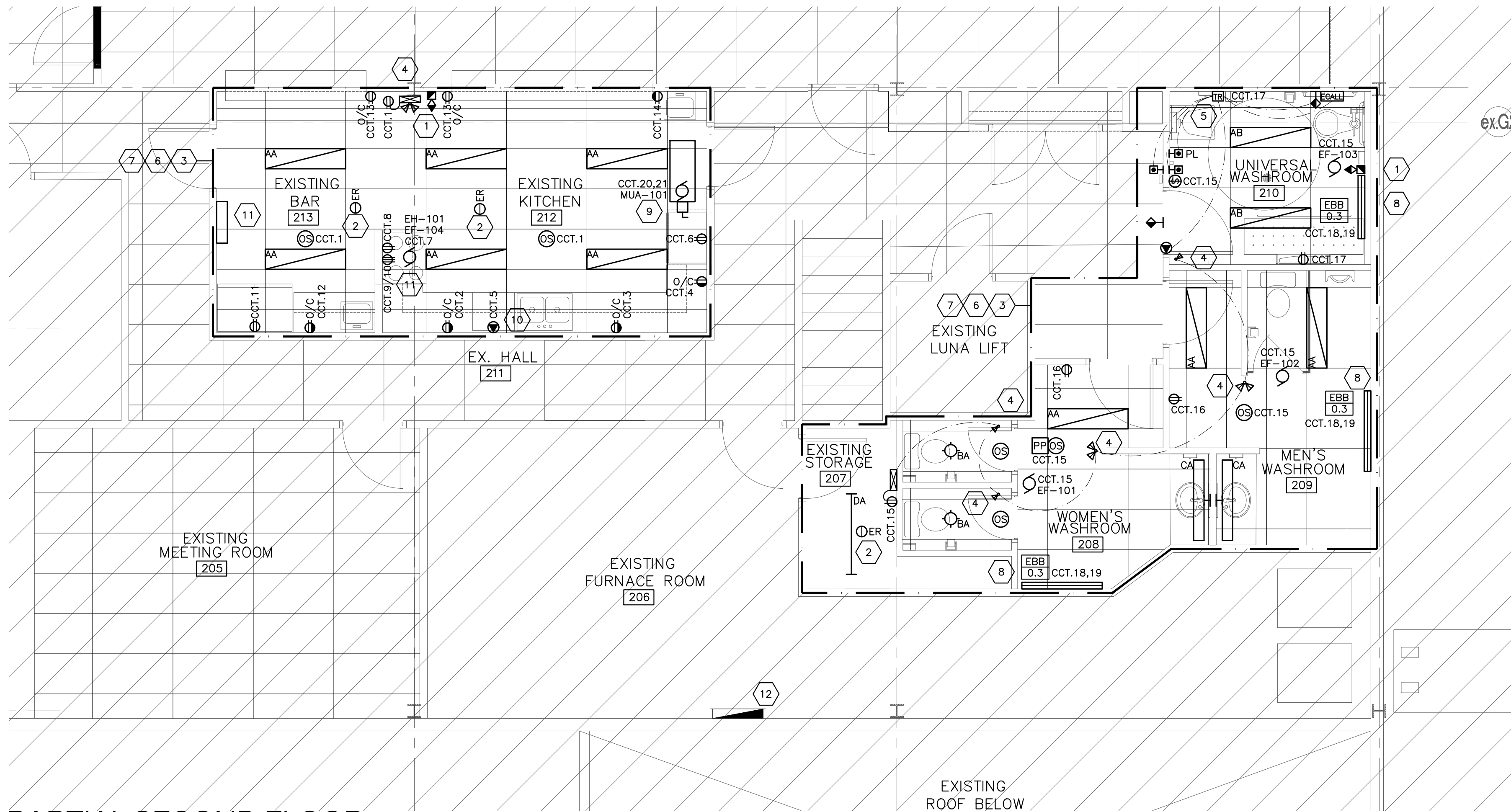


**PARTIAL SECOND FLOOR
EXISTING/DEMO LIGHTING LAYOUT**

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

DRAWING NOTES (INDICATED WITH HEXAGONS):

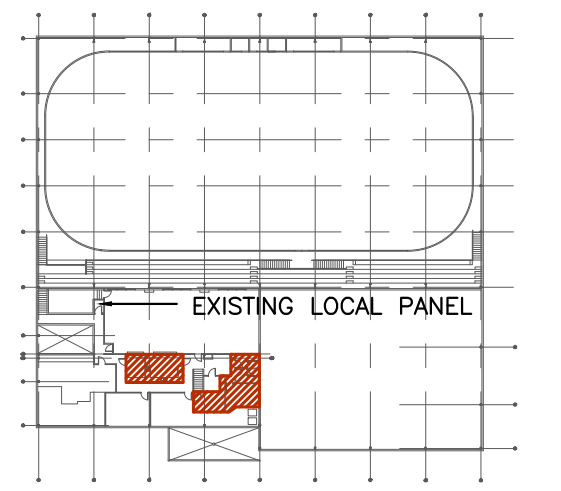
- PROVIDE NEW INITIATION/SIGNAL DEVICE. NEW FIRE ALARM DEVICE TO MATCH EXISTING AND/OR TO BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. WIRE TO LOCAL FIRE ALARM SIGNAL ZONE. INSTALL AS PER CAN/ULC S524 AND VERIFY AS PER CAN/ULC S537.
- REINSTALL REMOVED INITIATION/SIGNAL DEVICE. WIRE TO LOCAL FIRE ALARM SIGNAL ZONE. INSTALL AS PER CAN/ULC S524 AND VERIFY AS PER CAN/ULC S537.
- CIRCUITING FOR LIGHTING, EMERGENCY LIGHTING, OWNER'S SUPPLIED EQUIPMENT, MOTORS/MECHANICAL EQUIPMENT AND GENERAL RECEPTACLES IS PROVIDED BY ELECTRICAL CONTRACTOR AND SHALL COMPLY WITH THE LATEST O.E.S.C AND TO MEET OWNER'S NEEDS. ALL NEW AND RELOCATED LIGHTING AND POWER IN ADDITION TO BE FED FROM LOCAL PANELS. TYPICAL. PROVIDE UPDATED TYPE-WRITTEN PANEL DIRECTORY AT PANEL DOOR.
- PROVIDE EMERGENCY LIGHTING AND CORRESPONDING WIRING/ CONNECTION SUCH THAT THEY WILL BE AUTOMATICALLY ACTIVATED AND REMAIN OPERATIONAL FOR AT LEAST 30 MINUTES UPON LOSS OF POWER TO THE NORMAL LIGHTING IN THE AREA COVERED BY THEM. TYPICAL.
- PROVIDE NEW BARRIER FREE DOOR OPERATORS AND EMERGENCY CALL SYSTEM AS SHOWN. COORDINATE EXACT LOCATION OF DEVICES ON SITE. REFER TO WIRING SCHEMATIC ON E1. COORDINATE EMERGENCY CALL MONITORING REQUIREMENTS WITH CLIENT.
- CONNECT NEW LIGHTING TO EXISTING CIRCUITING WITH AVAILABLE CAPACITY AND CONTROLS.
- EXPOSED CABLE RUNS SHALL BE PLENUM RATED FT6 INSTALLED ONLY WHEN APPROVED BY THE CONSULTANT.
- CCTs 18,19 TO BE 208/1, 2P, 15A FOR ELECTRIC BASEBOARD HEATERS.
- CCTs 20,21 TO BE 208/1, 3P, 20A FOR MUA-101.
- DIRECT CONNECTION FOR DISHWASHER. CONFIRM POWER REQUIREMENTS WITH MANUFACTURER.
- PROVIDE POWER CONNECTION AND FIRE ALARM TIE IN FOR NEW FIRE SUPPRESSION PANEL. COORDINATE LOCATION ON SITE. PROVIDE RELAYS OR CONTACTOR TO SHUT DOWN ALL COOKING EQUIPMENT UNDER THE HOOD UPON ACTIVATION.
- EXISTING FIRE ALARM PANEL. ADD NEW ZONE AND RE-VERIFY AS REQUIRED. FIRE ALARM ANNUNCIATOR LOCATED IN MAIN VESTIBULE. UPDATE LABELS TO SUIT CHANGES.



**PARTIAL SECOND FLOOR
NEW LIGHTING LAYOUT**

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

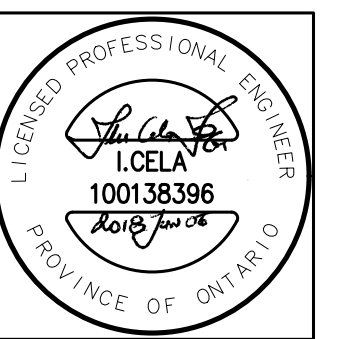
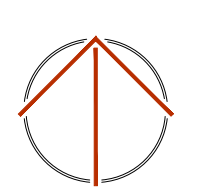
KEYPLAN



REVISIONS

NO.	REVISIONS	DATE
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NORTH



DESIGN	PIK	DRAWN	PIK
CHECKED	IC	REVIEWED	IC

PROJECT

**BROOKE-ALVINSTON
ARENA RENOVATIONS**

ADDRESS

**3310 WALNUT ST.,
ALVINSTON, ON**

PROJECT NO.

CE-4016

DRAWING TITLE

**ELECTRICAL
FLOOR PLANS**

DRAWING NUMBER

E2 OF 3

ELECTRICAL GENERAL REQUIREMENTS

GENERAL CONDITIONS

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO ELECTRICAL SAFETY CODE, THE LOCAL ELECTRICAL SAFETY AUTHORITY INSPECTION OFFICE, THE ONTARIO BUILDING CODE, THE ONTARIO FIRE CODE AND ANY OTHER LOCAL REGULATIONS HAVING JURISDICTION OVER THE WORK OF THIS TRADE.
- BEFORE TENDERING, EXAMINE THE SITE AND ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND BE FAMILIAR WITH THE WORK OF THIS TRADE. NO EXTRAS WILL BE ALLOWED FOR THE FAILURE TO DO SO.
- ALL ELECTRICAL WORK SHALL COMPLY WITH CSA ELECTRICAL BULLETIN APPLICABLE AT TENDER CLOSE. WHERE SPECIFIC BULLETINS ARE NOT NAMED THEY ARE STILL CONSIDERED AN INTEGRAL PART OF THIS SPECIFICATION.
- PROVIDE ALL GROUNDING AND BONDING TO GROUND REQUIRED, REGARDLESS IF NOT SHOWN ON THE DRAWINGS. GROUNDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODE.
- PROVIDE ALL NEW MATERIALS HAVING CSA, CUL, WARNOCK HERSEY OR OTHER APPROVAL AGENCY LABEL AND LISTING. ALL WORKMANSHIP BY THIS TRADE SHALL BE FIRST CLASS, CONFORMING TO INDUSTRY STANDARD PRACTICES FOR SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS FOR ACCEPTANCE BY THE OWNERS' REPRESENTATIVES.
- ARRANGE AND PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED FOR THE WORK OF THIS TRADE. SUBMIT TO THE LOCAL ELECTRICAL INSPECTION DEPARTMENT AND/OR ELECTRICAL SUPPLY AUTHORITY ANY AND ALL DRAWINGS REQUIRED FOR PERMITS, FEES, APPROVALS, EXAMINATIONS AND SERVICES.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS TRADE. ALL CUTTING AND PATCHING SHALL BE PERFORMED BY QUALIFIED TRADES PERSONS, INCLUDE ALL COSTS FOR CUTTING AND PATCHING RELATED TO THE WORK OF THIS TRADE IN THE TENDER PRICE.
- TOUCH-UP ALL SHOP PAINTED EQUIPMENT DAMAGED IN TRANSIT OR DURING INSTALLATION TO MATCH ORIGINAL SHOP FINISH.
- AVOID ACCUMULATION OF DEBRIS AS THE WORK PROGRESSES. ON COMPLETION OF THE CONSTRUCTION AND PRIOR TO THE FINAL INSPECTION AND ACCEPTANCE BY THE OWNER, CLEAN UP AND REMOVE FROM THE SITE ALL SCRAP MATERIALS RESULTING FROM THE WORK OF THIS TRADE.
- CO-ORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES ON THE JOB SO THAT THE WORK MAY PROGRESS WITHOUT ANY DELAY.
- PRIOR TO THE FINAL INSPECTION, CLEAN ALL ELECTRICAL EQUIPMENT. CLEAN ALL CONSTRUCTION DUST AND DIRT FROM INSTALLED EQUIPMENT AT THE END OF THE JOB.
- UPON COMPLETION OF THE WORK, PROVIDE THE FINAL UNCONDITIONAL CERTIFICATE OF ACCEPTANCE FROM THE LOCAL ELECTRICAL SAFETY AUTHORITY INSPECTION OFFICE.
- PROVIDE A ONE YEAR GUARANTEE ON ALL MATERIALS, AND LABOUR FROM THE DATE OF ACCEPTANCE BY THE OWNER. COMPLETE ALL WARRANTY REGISTRATION DOCUMENTATION ON BEHALF OF THE BUILDING OWNER. SUBMIT COPIES OF COMPLETED DOCUMENTATION IN OPERATIONS AND MAINTENANCE MANUALS.
- ON MULTI-PHASE FEEDERS AND PANELS, ADJUST THE PHASE LOADING SO AS NOT TO EXCEED A PHASE IMBALANCE OF 10% TO LINE, UNDER NORMAL OPERATING CONDITIONS OF THE FEEDER OR PANEL.
- SUBMIT SHOP DRAWINGS IN ELECTRONIC PDF FORMAT FOR THE FOLLOWING EQUIPMENT: BREAKERS, FIRE ALARM DEVICES, EXIT AND EMERGENCY LIGHTING UNITS, ETC. THE SHOP DRAWINGS SHALL BEAR THE NAME OF THE MANUFACTURER, THE MANUFACTURER'S CATALOGUE NUMBER, AND THE CONSULTANT'S DESIGNATION, ALONG WITH ALL PERTINENT INFORMATION PERTAINING TO THAT SPECIFIC PIECE OF EQUIPMENT.
- ALL ELECTRICAL EQUIPMENT SHALL BE MOUNTED PLUMBED TRUE.
- OBTAIN ONE SET OF PRINTS FOR AS-BUILT PURPOSES AND RECORD ON THESE PRINTS ALL CHANGES TO THE DESIGN DRAWINGS TO REFLECT THE ACTUAL CONSTRUCTION CONDITIONS, EQUIPMENT LOCATIONS AND EQUIPMENT SPECIFICATIONS. AT THE END OF CONSTRUCTION, AND PRIOR TO THE FINAL INSPECTION BY THE CONSULTANT, TRANSFER AS-BUILT MARK-UPS TO AUTOCAD/REVIT AND SUBMIT AUTOCAD AND PDF FILES TO THE CONSULTANT SUBMIT FOR REVIEW. SUBMIT FINAL CAD FILES OF THE AS-BUILT DRAWINGS ON CD/USB KEY. NO FINAL INSPECTION WILL BE PERFORMED UNTIL THESE DRAWINGS ARE SUBMITTED.
- PREPARE [THREE SETS] OF OPERATIONS AND MAINTENANCE MANUALS FOR PRESENTATION TO THE OWNER. PROVIDE COPIES OF ALL REVIEWED SHOP DRAWINGS FOR THE PROJECT, MANUFACTURER'S INSTALLATION INSTRUCTIONS, MANUFACTURER'S MAINTENANCE INSTRUCTIONS, AND COPIES OF ALL TEST DATA, VERIFICATION CERTIFICATES, MANUFACTURER'S WARRANTIES AND GUARANTEES. THE GUARANTEE OF THIS TRADE INDICATING START DATE AND END DATE AS WELL AS CONTRACT NUMBERS.
- WHERE THE WORD PROVIDE IS USED IN THESE SPECIFICATIONS OR ON THE DRAWINGS, IT HAS THE MEANING "PROVIDE AND INSTALL COMPLETE WITH ALL ASSOCIATED MOUNTING HARDWARE AND CONNECTIONS".
- CHANGES IN THE WORK
 - CHANGES TO THE CONTRACT REQUIRING ADDITIONS TO OR DELETIONS FROM THE WORK OF THIS DIVISION SHALL BE CARRIED OUT UPON WRITTEN REQUEST OF THE CONSULTANT. EXTRAS TO THE CONTRACT OR CREDITS SHALL BE SUBMITTED WITH A COMPLETE COST BREAKDOWN AS FOLLOWS: MATERIALS, QUANTITIES AND UNIT PRICES FOR ALL EQUIPMENT REQUIRED OR DELETED. UNIT MAN HOURS TOTAL MATERIAL COST. TOTAL MAN HOURS. HOURLY RATE. (REFER TO SUPPLEMENTARY CONDITIONS AND GENERAL CONTRACT). TOTAL OVERHEAD AND PROFIT. (REFER TO SUPPLEMENTARY CONDITIONS AND GENERAL CONTRACT).

CONDUCTORS & RACEWAYS

- USE TW75 OR RW90 COPPER CONDUCTORS CSA APPROVED FOR THE APPLICATION. SIZE THE CONDUCTORS SO THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP DOES NOT EXCEED 3%. MINIMUM CONDUCTOR SIZE IS #12 AWG UNLESS OTHERWISE INDICATED.
- DESIGN IS BASED ON COPPER CONDUCTORS EXCEPT WHERE SHOWN ON THE DRAWINGS. ALUMINUM CONDUCTORS MAY BE USED ONLY FOR FEEDERS 1/0 AWG OR LARGER. SIZE THE ALUMINUM CONDUCTORS TO THE EQUIVALENT AMPACITY OF COPPER CONDUCTORS. CONDUCTORS IN UNDERGROUND RACEWAYS MAY BE RW90 IN POLYETHYLENE PIPE.
- TERMINATE ALUMINUM FEEDER CONDUCTORS WITH PRESSURE CONNECTORS, AND UTILIZE AN OXIDE PREVENTATIVE SOLUTION "PENETROX" ON ALL BARE SURFACES. LUGS TO BE ALUMINUM OR ALUMINUM/COPPER ALLOY ONLY.
- ALL CONDUCTORS ARE TO BE INSTALLED IN RACEWAYS AS DESCRIBED BELOW:
 - IN CONCRETE SLAB, UNDERGROUND BURIED, BELOW SLAB ON GRADE OR EXTERIOR EXPOSED SURFACE RACEWAYS: PVC CONDUIT
 - INTERIOR SURFACE RACEWAYS, BRANCH CIRCUIT WIRING FROM PANELS, CONCEALED IN ACCESSIBLE CEILINGS AND INTERIOR WALLS OR IN INTERIOR CONCRETE BLOCK CONSTRUCTION: EMT RACEWAYS
 - IN METAL STUD PARTITION WALLS, BRANCH CIRCUIT WIRING FROM PANELS IN SUITE OR TENANT OCCUPANCIES, IN INTERIOR CONCRETE BLOCK WALLS, FOR FINAL DROPS TO FIXTURES IN CEILING SPACES. (LENGTH NOT TO EXCEED 3M IN THIS APPLICATION): ARMOURD CABLE (BX).
 - IN WOOD STUD CONSTRUCTION: NMD-7 COPPER CONDUCTORS ARE PERMITTED FOR BRANCH CIRCUIT WIRING AS DIRECTED BY THE ENGINEER.
 - FOR EXISTING CONSTRUCTION WHERE EXISTING WALLS AND FINISHES ARE TO REMAIN: SURFACE METAL RACEWAYS (SMR)
 - OBTAIN PERMISSION FROM THE CONSULTANT PRIOR TO INSTALLATION. COLOUR AND SIZE OF RACEWAYS TO BE CONFIRMED WITH CONSULTANT FOR THE SPECIFIC APPLICATION.
- MINIMUM RACEWAY SIZE FOR EXTERIOR U/G BURIED APPLICATION IS 3/4" (19MM). MINIMUM BURIES DEPTH IS 36" (900MM) BELOW FINISHED GRADE.
- ALL CONDUIT AND WIRING IS TO BE CONCEALED IN ALL FINISHED AREAS.
- ALL FEEDERS FROM AN EMERGENCY POWER SOURCE TO EMERGENCY DEVICES SUCH AS ELEVATORS, FIRE ALARM CONTROL PANELS, PRESSURIZATION FANS AND SPRINKLER OR STANDPIPE EQUIPMENT SHALL CONFORM TO ULC-S159 FIRE TEST FOR EVALUATION OF INTEGRITY OF ELECTRICAL CABLES TO PROVIDE A CIRCUIT INTEGRITY OF NOT LESS THAN 1 HOUR. THIS IS NOT REQUIRED WHERE THE CABLES ARE LOCATED IN A SERVICE SPACE THAT CONTAINS NO COMBUSTIBLE MATERIALS AND IS SEPARATED FROM THE REST OF THE BUILDING BY 1 HOUR FIRE RATING.

DEVICES

- RECEPTACLES:
 - SPEC GRADE, DUPLEX, RATED 15 AMP, 125 VAC, EEMAC 5-15R CONFIGURATION, U-GROUND.
 - GROUND FAULT INTERRUPTING, CLASS A DUPLEX, RATED 20 AMP, 125 VAC, 1-SLOT EEMAC 5-20R FID, TRIP RATED FOR 4-6 MA LEAKAGE CURRENT. C/W PUSH TO TEST AND RESET BUTTONS.
- COVER PLATES:
 - SMOOTHLINE BAKELITE, COLOUR TO MATCH SWITCHES AND RECEPTACLES.
 - BRUSHED STAINLESS STEEL, NUMBER 430, IN OFFICES AND KITCHENS.
 - GALVANIZED STEEL COVERPLATES, FOR SURFACE MOUNTED DEVICES IN UNFINISHED AREAS.
 - COVERPLATES TO BE OF THE SAME MANUFACTURER AS THE DEVICES. PROVIDE A TYPED LABEL ON EACH DEVICE PLATE INDICATING THE PANEL BOARD NAME AND CIRCUIT NUMBER THE DEVICE IS FED FROM.
- COLOUR OF DEVICES: WHITE
- ALL DEVICES OF THE SAME TYPE, SIZE AND RATING ARE TO BE OF THE SAME MANUFACTURER THROUGHOUT THE PROJECT.
- MOUNTING HEIGHTS - BARRIER FREE DESIGN (OBC LATEST)
 - PULL STATIONS AND THERMOSTATS SHALL BE MOUNTED AT 1200MM ABOVE THE FINISHED FLOOR
 - ALL OTHER CONTROLS (INCLUDING ELECTRICAL SWITCHES, INTERCOM SWITCHES, ETC.) SHALL BE MOUNTED NOT LESS THAN 900MM AND NOT MORE THAN 1100MM ABOVE THE FINISHED FLOOR.

LIGHTING

- PROVIDE FIXTURES COMPLETE WITH ALL ACCESSORIES MOUNTING HARDWARE, AND LAMPS AS SPECIFIED IN THE FIXTURE SCHEDULE OR AS APPROVED BY OWNERS AS AN EQUAL FIXTURE.
- PRODUCTS OF EQUAL QUALITY BY ALTERNATE MANUFACTURERS SUCH AS LITHONIA, COOPER, LIGHTOLIER, HUBBELL, ETC. ARE ALSO ACCEPTABLE.
- EXTERIOR LIGHTING TO BE CONTROLLED:
 - AS SHOWN ON DRAWINGS.
 - BY PHOTOCCELL WIRED IN SERIES WITH TIME CLOCK FOR PHOTOCCELL "ON" TIME CLOCK "OFF".
- FIXTURES WHICH ARE MARKED N.I.C. OR FIXTURES WITHOUT MARKINGS ARE TO BE PRICED FOR WIRING AND INSTALLATION OF THE OWNER SUPPLIED FIXTURE AS PART OF THIS CONTRACT.

EMERGENCY LIGHTING

- PROVIDE A COMPLETE EMERGENCY LIGHTING SYSTEM CAPABLE OF 30 MINUTES OF CONTINUOUS OPERATION IN A POWER FAILURE.
- EMERGENCY BATTERY UNITS:
 - ALL EMERGENCY BATTERY UNITS TO BE CSA C22.2-141 APPROVED.
 - ALL UNITS TO BE COMPLETE WITH LONG LIFE, SEALED LEAD ACID BATTERIES, BATTERY CHARGER, HIGH CHARGE INDICATOR, TEST BUTTON, A.C. "ON" INDICATOR, 120 VAC CORD SET, MOUNTING BRACKETS AND AUTOMATIC TRANSFER TO EMERGENCY POWER SUPPLY ON NORMAL POWER FAILURE. D.C. VOLTAGE TO BE AS INDICATED ON THE DRAWINGS. MINIMUM BATTERY CAPACITY TO BE 125% OF THE TOTAL CONNECTED D.C. LOAD.
 - MANUFACTURERS: EMERGI-LITE, LUMACELL, DUALLITE, BEGHELLI.
- COMBINATION EMERGENCY BATTERY UNIT/EXIT FIXTURE: EMERGI-LITE OF EQUAL 6 VDC SEALED LEAD ACID MEDIUM LIFE BATTERIES, BATTERY CHARGER, TRANSFER SWITCH, EXTRUDED ALUMINUM HOUSING SINGLE OR DOUBLE FACE AS REQUIRED AND 2 MICRO TYPE, 4 WATT, MR16 LED HEADS. BATTERY RATED 18 WATT HOURS MINIMUM.
- EMERGENCY LIGHTING HEADS: UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, PROVIDE MICRO TYPE, 4 WATT, MR16 LED HEADS, OF THE SAME MANUFACTURER AS THE EMERGENCY BATTERY UNITS.
- MOUNT BATTERY UNITS AND LIGHTING HEADS AS HIGH AS POSSIBLE TO THE FINISHED CEILING, UNLESS SPECIFIED OTHERWISE, SO AS NOT TO OBSTRUCT THE HEAD MOVEMENT.
- SIZE CONDUCTORS FOR A MAXIMUM VOLTAGE DROP OF 5% AT THE LAST CONNECTION POINTS FROM THE UNIT.

EXISTING FIRE ALARM SYSTEM

- FIRE ALARM SYSTEM IS EXISTING.
- PROVIDE CERTIFICATE OF VERIFICATION OF FIRE ALARM SYSTEM TO ENGINEER ON COMPLETION OF WORK. PROVIDE CERTIFICATION OF INSTALLATION TO CAN/ULC - S524.
- MANUAL ALARM DEVICES: TO ULC STANDARD S528B
- NON-CODED, METAL CONSTRUCTION, RED, WITH BREAK GLASS OR SPECIAL RESET ACTION AFTER ALARM.
- SMOKE DETECTORS: TO ULC S529 STANDARD FOR SMOKE DETECTORS FOR FIRE ALARM SYSTEMS.
- PHOTOELECTRIC OPERATION. DELAY SIGNAL CAPABILITY. AUTOMATIC SENSITIVITY ADJUSTMENT.
- SIGNAL APPLIANCES: TO ULC STANDARD S525
- HORNS: RATED 90 DB AT 3 M (10 FT), 24 VDC OPERATION, VIBRATING TONE GENERATION. WEATHERPROOF WHERE REQUIRED, RED.
- ACCEPTABLE MANUFACTURERS INCLUDE: EST, CERBERUS - SIEMENS, NOTIFIER, SIMPLEX.
- FIRE ALARM INSTALLATION TO ULC STANDARD S524.
- FIRE ALARM VERIFICATION TO ULC STANDARD S537.
- PROVIDE CERTIFICATE OF VERIFICATION OF FIRE ALARM SYSTEM TO ENGINEER ON COMPLETION OF WORK. PROVIDE CERTIFICATION OF INSTALLATION TO CAN/ULC - S524.

TELEPHONE CONDUIT SYSTEM

- PROVIDE RACEWAYS TO THE TELEPHONE OUTLETS SHOWN FROM THE TELEPHONE SUPPLY BACKBOARD. MINIMUM RACEWAY SIZE IS 1/2" C. RACEWAY TO BE CONTINUOUS FROM SUPPLY POINT TO OUTLET.
- PROVIDE NYLON PULL WIRES IN ALL RACEWAYS.

WIRING FOR OTHER TRADES

- PROVIDE POWER WIRING FOR ELECTRICALLY OPERATED EQUIPMENT OF OTHER TRADES AS NOTED ON THE DRAWINGS OR DEFINED IN THIS SPECIFICATION. PROVIDE ALL STARTERS AND DISCONNECT SWITCHES FOR A COMPLETE AND OPERATING SYSTEM.
- PROVIDE POWER AND WIRING TO THE ELECTRICALLY OPERATED EQUIPMENT AS DETAILED BELOW. THIS LIST DOES NOT DETAIL THE SCOPE OF WORK FOR EACH PIECE OF EQUIPMENT. CO-ORDINATE WITH MECHANICAL CONTRACTOR FOR THE EXACT POWER REQUIREMENTS OF THE EQUIPMENT TO BE SUPPLIED TO THE PROJECT. DO NOT PROCEED WITH THE INSTALLATION OF ANY OF THE ELECTRICAL ROUGH-IN UNTIL THE POWER SUPPLY REQUIREMENTS AND THE POINTS OF CONNECTION HAVE BEEN ESTABLISHED FROM THE SHOP DRAWINGS FOR THE EQUIPMENT OF MECHANICAL CONTRACTOR.
- EXHAUST FANS
RANGE HOODS
- PROVIDE POWER WIRING TO ALL CONTROL DEVICES SUPPLIED BY MECHANICAL CONTRACTOR AND OPERATING AT 100 VAC OR GREATER.
- PROVIDE CONTROL WIRING FOR ALL CONTROL DEVICES WITH OPERATING VOLTAGES OF THE CONTROLS GREATER THAN 100VAC.
- PROVIDE RACEWAYS/CONDUITS FOR ALL CONTROL WIRING AS IDENTIFIED ON THE DRAWINGS FOR USE BY MECHANICAL CONTRACTOR. PROVIDE OUTLET BOXES AS DIRECTED BY MECHANICAL CONTRACTOR FOR ALL TERMINAL POINTS IN THE CONTROL SYSTEM. CO-ORDINATE WITH MECHANICAL CONTRACTOR.

RENOVATIONS ON EXISTING BUILDING

- RENOVATIONS SHALL BE MADE ON THE EXISTING BUILDING AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. REMOVE ALL EXISTING LUMINARIES, OUTLET BOXES, SWITCHES, RECEPTACLES, ETC. IN RENOVATED AREAS AS INDICATED ON THE PLANS. ALL EQUIPMENT REMOVED AND NOT REUSED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EQUIPMENT INSTALLED IN RENOVATED AREAS SHALL BE NEW. ELECTRICAL TRADE WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION. ALL CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS SPECIFICALLY NOTED OTHERWISE.
- NEW CONDUCTORS SHALL BE INSTALLED TO THE NEAREST OUTLET AS REQUIRED FOR EQUIPMENT THAT IS RELOCATED. INSTALLATION OF JUNCTION BOXES FOR SPLICING PURPOSES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY CALLED FOR.
- PROVIDE ALL CONDUCTORS REQUIRED TO RECONNECT EXISTING CIRCUITS WHERE REQUIRED THAT MAY BE DISRUPTED DUE TO RENOVATIONS ON THE EXISTING FLOOR.
- PROVIDE NEW BREAKERS WHERE REQUIRED IN EXISTING PANELS TO PICK-UP ADDITIONAL CIRCUITS INDICATED ON THE DRAWINGS.
- COORDINATE WITH MECHANICAL DRAWINGS AND SAFELY DISCONNECT AND REMOVE ALL MOTOR/MECHANICAL EQUIPMENT BEING DEMOLISHED. REMOVE UNUSED WIRING/CONNECTION BACK TO SOURCE PANEL. EXTEND WIRING/CONNECTION OF ALL MOTOR/MECHANICAL EQUIPMENT BEING RELOCATED. PROVIDE PROPER JUNCTION BOX AT EACH POINT OF EXTENSION.

EMERGENCY CALL SYSTEM

- PROVIDE EMERGENCY CALL SYSTEM KIT IN UNIVERSAL WASHROOM TO MEET OBC 3.8.3.12. SYSTEM SHALL INCLUDE HORN/STROBE DEVICE(S), TRANSFORMER AND PUSH BUTTON STATION. INTERCONNECT WITH LOW VOLTAGE WIRING PER MANUFACTURER'S REQUIREMENTS AND TO MEET REQUIREMENTS OF AREAS INSTALLED (PLENUM RATED ETC...) AND BE MECHANICALLY PROTECTED IN STEEL STUD WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING METHODS IN AREA.
- REFER TO "EMERGENCY CALL WIRING DIAGRAM - UNIVERSAL WASHROOM" ON DRAWING FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- SIGNAGE TO BE PROVIDED BY ARCHITECT OR GENERAL CONTRACTOR.
- INSTALL TRANSFORMER IN ACCESSIBLE CEILING SPACE, OR PROVIDE ACCESS HATCH IN RIGID CEILING. COORDINATE INSTALLATION OF HATCH WITH GENERAL CONTRACTOR.

LIGHTING CONTROL

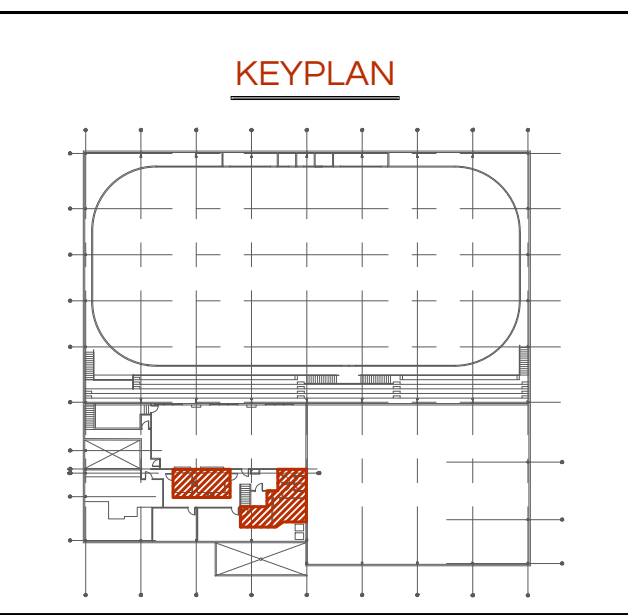
- CEILING OCCUPANCY SENSOR (LINE VOLTAGE) - OS
 - SENSOR SHALL OPERATE AT 120V FOR A RATED LOAD OF 800W.
 - SHALL USE A DUAL TECHNOLOGY PIR AND ULTRASONIC SENSOR TO DETECT OCCUPANCY AND TURN LIGHTS ON. SHALL HAVE A DIP SWITCH SETTINGS TO ADJUST A TIME DELAY BETWEEN 5 AND 30 MINUTES.
 - THE OCCUPANCY SENSOR SHALL PROVIDE COVERAGE UP TO 1000 SQUARE FEET.
 - MODEL SHALL BE A WATT STOPPER PT-355-1 WITH A 5 YEAR WARRANTY.
- OCCUPANCY SENSOR SWITCHES (LINE VOLTAGE)
 - SWITCH SHALL OPERATE AT 120V FOR A RATED FLUORESCENT LOAD OF 20A.
 - SHALL USE DUAL TECHNOLOGY (PIR & US) TO DETECT OCCUPANCY AND TURN LIGHTS ON. SHALL HAVE A DIP SWITCH SETTINGS TO ADJUST A TIME DELAY BETWEEN 5 AND 30 MINUTES.
 - THE OCCUPANCY SENSOR SHALL HAVE A VANDAL RESISTANT HARD LENS AND PROVIDE COVERAGE UP TO 300 SQUARE FEET.
 - MODEL SHALL BE A WATT STOPPER DT-355 WITH A 5 YEAR WARRANTY.
- CEILING OCCUPANCY SENSOR (LOW VOLTAGE ULTRASONIC)
 - SHALL HAVE A DUAL TECHNOLOGY (PIR & US) SENSOR WITH A RANGE OF 1000 SQ. FT.
 - OPERATES AT 24VDC AND A CURRENT OF 40MA. SHALL HAVE AN ADJUSTABLE TIME DELAY OF 15 S. TO 20 MIN.
 - MODEL SHALL BE WATT STOPPER DT-300 WITH A 5 YEAR WARRANTY.
- POWER PACK & AUXILIARY SLAVE PACK
 - POWER PACK CONSISTS OF A HIGH-CURRENT RELAY AND A TRANSFORMER TO PROVIDE 24VDC OPERATING VOLTAGE TO ALL OCCUPANCY SENSORS WITH OPERATING VOLTAGE OF 24VDC. POWER PACK SHALL BE RATED FOR 20A OF ELECTRICAL LOAD.
 - POWER PACK SHALL HAVE AN OUTPUT OF 150MA @ 24VDC AND AN INPUT VOLTAGE OF 120V.
 - POWER PACK MODEL SHALL BE WATT STOPPER BZ-50, AND AUXILIARY PACK SHALL BE WATT STOPPER S120.

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PROJECT

BROOKE-ALVINSTON ARENA RENOVATIONS

ADDRESS

3310 WALNUT ST.,
ALVINSTON, ON

PROJECT NO.

CE-4016

DRAWING TITLE

ELECTRICAL SPECIFICATIONS

DRAWING NUMBER

E3 OF 3