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WATERLOO REGION DISTRICT SCHOOL BOARD

LINCOLN HEIGHTS PS BARRIER FREE WASHROOM ADDITION

270 Quickfall Dr, Waterloo, ON N2J 3S9

WalterFedy Project No.: 2022-0858-12

2024.03.11 ISSUED FOR BID AND PERMIT

LARGE BUILDINGS: TO BOOK AN INSPECTION CALL THE INSPECTION REQUEST LINE AT 519-747-8789.

THE CITY OF 
BUILDING INSPECTION
NOTE: THIS DEPARTMENT MUST BE NOTIFIED OF, AND APPROVE ALL CHANGES FROM THESE PLANS. ALL CONSTRUCTION TO CONFORM TO THE ONTARIO BUILDING CODE. THE BUILDER ASSUMES FULL LIABILITY FOR ERRORS AND OMISSIONS. THESE DRAWINGS MUST BE KEPT ON SITE UNTIL FINAL INSPECTION HAS BEEN COMPLETED.
2024-04-11 

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE	KP	KICK PLATE
AFF	ABOVE FINISHED FLOOR	LAB	LABORATORY
ALT	ALTERNATE	LAM	LAMINATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LAV	LAVATORY
AC	AIR CONDITIONING	LED	LIGHT EMITTING DIODE
ALUM	ALUMINUM	M	MEN'S
ARCH	ARCHITECTURAL	m	METERS
ASPH	ASPHALT	MAS	MASONRY
BD	BOARD	MAX	MAXIMUM
BLK	BLOCK	MECH	MECHANICAL
BM	BEAM	MET	METAL
BRK	BRICK	MEZZ	MEZZANINE
BLDG	BUILDING	MFR	MANUFACTURER
BLKG	BLOCKING	MIN	MINIMUM
BOT	BOTTOM	MIR	MIRROR
BRKT	BRACKET	MIRH	MIRROR HANDICAPPED
CB	CATCH BASIN	MISC	MISCELLANEOUS
CEM	CEMENT	mm	MILIMETER
CER	CERAMIC	MO	MASONRY OPENING
CFM	CUBIC FEET PER MINUTE	MPH	MOP HOLDER
CG	CORNER GUARD	N	NORTH
CGSB	CANADIAN GENERAL STANDARD BOARD	ND	NAPKIN DISPOSAL
CH	COAT HOOK	NIC	NOT IN CONTRACT
CHH	COAT HOOK HANDICAPPED	NFFA	NATIONAL FIRE PREV. ASSO.
CI	CAST IRON	No.	NUMBER
CJ	CONTROL JOINT	NOM	NOMINAL
Cm	CENTIMETER	NTS	NOT TO SCALE
CONC	CONCRETE	OA	OVERALL
CORR	CORRIDOR	OBC	ONTARIO BUILDING CODE
CR	CARD READER	OC	ON CENTRE
CT	CERAMIC TILE	OD	OUTSIDE DIAMETER
CW	COLD WATER	O/H	OVERHEAD
CL	CENTRE LINE	OH	OPPOSITE HAND
COL	COLUMN	OHS	OVERHEAD STOP
CONT	CONTINUOUS	OPNG	OPENING
CPT	CARPET	OPP	OPPOSITE
CSA	CANADIAN STANDARDS ASSOCIATION	OWSJ	OPEN WEB STEEL JOIST
CTR	CENTRE	PTN	PARTITION
C/W	COMPLETE WITH	PCCNC	PRECAST CONCRETE
DBL	DOUBLE	PDO	POWER DOOR OPERATOR
DET	DETAIL	PG	PIPE GUARD
DIA	DIAMETER	PL	PLATE
DIM	DIMENSION	PLAM	PLASTIC LAMINATE
DO	DITTO	PLEXI	PLEXIGLASS
DR	DOOR	PLYWD	PLYWOOD
DS	DOWNSPOUT	PNT	PAINT
DWG	DRAWING	POL	POLISHED
E	EAST	PR	PAIR
EA	EACH	PSF	POUNDS PER SQUARE FOOT
EIFS	EXTERIOR INSULATION FINISH SYSTEMS	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	PT	POINT
ELEC	ELECTRIC(AL)	PVC	POLYVINYL CHLORIDE
ENCL	ENCLOSURE	QT	QUARRY TILE
ENG	ENGINEER	R	RADIUS
ENT	ENTRANCE	RCP	REFLECTED CEILING PLAN
EQ	EQUAL	RD	ROOF DRAIN REINFORCE
ES	ELECTRIC STRICK	REQ'D	REQUIRED
EXP	EXPOSED	RESIL	RESILIENT
EXPAN JT	EXPANSION JOINT	REV	REVISION
EXT	EXTERIOR	RM	ROOM
FA	FIRE ALARM	RO	ROUGH OPENING
FAS	FIRE ALARM STATION	RWL	RAIN WATER LEADER
FD	FLOOR DRAIN	S	SOUTH
FDN	FOUNDATION	SCH	SCHEDULE
FE	FIRE EXTINGUISHER	SD	SOAP DISPENSER
FEC	FIRE EXTINGUISHER CABINET	SEAL	SEALANT
FF	FINISH FLOOR	SECT	SECTION
FFD	FUNNEL FLOOR DRAIN	SF	SQUARE FEET
FH	FIRE HYDRANT	SHT	SHEET
FHC	FIRE HOSE CABINET	SIM	SIMILAR
FHV	FIRE HOSE VALVE	SN	STAIR NOSING
FIN	FINISHED	SP	STANDPIPE
FLUOR	FLUORESCENT	SPEC	SPECIFICATION
FT	FOOT or FEET	SQ	SQUARE
FTG	FOOTING	S.S.	STAINLESS STEEL
FURR	FURRING	STD	STANDARD
FVC	FIRE VALVE CABINET	STL	STEEL
G	G	STRUCT	STRUCTURAL
GAL	GALVANIZED	SYM	SYMMETRICAL
GB	GRAB BAR	TB	TACK BOARD
GEN	GENERATOR	TD	TRENCH DRAIN
GF	GROUND FLOOR	TEL	TELEPHONE
GL	GLASS	T & G	TONGUE & GROOVE
GR	GRADE	THK	THICK
GRAN A	GRANULAR A	THR	TRESHOLD
GRAN B	GRANULAR B	T.O.	TOP OF
GWB	GYPSSUM WALL BOARD	TYP	TYPICAL
HB	HOSE BIBB	U/C	UNDERCUT
HC	HANDICAPPED	U/G	UNDERGROUND
HM	HOLLOW METAL	UL	UNDERWRITER LAB.
HORIZ	HORIZONTAL	UNFIN	UNFINISHED
HP	HYDRO POLE	UON	UNLESS OTHERWISE NOTED
HR	HOUR	U/S	UNDERSIDE
HT	HEIGHT	UTIL	UTILITY
HW	HOT WATER	VCT	VINYL COMPOSITION TILE
ID	INSIDE DIAMETER	VEST	VESTIBULE
INCAN	INCANDESCENT	W	WEST
INSUL	INSULATION or INSULATED	WC	WATER CLOSET
INV	INVERT	WD	WOOD
JAN	JANITOR'S CLOSET	WHTR	WATER HEATER
JT	JOINT	WP	WATERPROOF(ING)
JST	JOIST	WR	WASHROOM
KD	KNOCK DOWN	WS	WEATHERSTRIPPING
		WT	WEIGHT

General Annotations

Building Section Tag **Wall Section Tag** **Callout Tag**

Exterior Elevation Tag **Interior Elevation Tag**

Grid Marker **Revision** **North Arrow**

Level Marker **View Title**

Room Tags

ROOM NAME **ROOM NAME**

ROOM NAME **ROOM NAME**

Family Tags

Wall Tag **Equipment & Furniture Tag**

Material Tag **Drawing Note Symbol**

Door Tag **Multi-Leader**

Curtain Wall, Window, Louver & Screen Tag **Drawing Note Tags** **Roof Tag**

Floor Tag

Ceiling/Soffit Tags

Building Entry Symbols - Site Planning

DRAWING LEGEND:

HATCH DENOTES AREA NOT IN SCOPE OF ARCHITECTURAL WORK - TYPICAL

EXISTING TO BE DEMOLISHED SHOWN DASHED

GENERAL NOTES:

- ALL WALLS TO EXTEND TO UIS STRUCTURAL DECK UNLESS OTHERWISE NOTED.
 - ASSEMBLY CONSTRUCTION READ FROM TAG SIDE OF ASSEMBLY.
 - ALL DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.
 - DIMENSIONING TO/FROM EXISTING CONDITIONS SHALL BE AT FACE OF EXISTING ASSEMBLY.
 - PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED EQUIPMENT.
 - REFER TO ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED EQUIPMENT SIZE AND TYPE.
 - SEE MECHANICAL DRAWINGS FOR HVAC EQUIPMENT SIZE AND TYPE.
 - MAKE GOOD ALL CEILING TILE/WALLS/SURFACES AFTER CONSTRUCTION, FIX AND PAINT WALLS DAMAGED BY CONSTRUCTION AND/OR REPLACE CEILING IF DAMAGED BY CONSTRUCTION.
 - FIRESTOP AND SEAL ALL PENETRATIONS THRO
 - ANY DAMAGE TO EXISTING ADJACENT CONSTRUCTION INCLUDING BUT NOT LIMITED TO (INTERIOR AND EXTERIOR) MASONRY, DRYWALL, SILLS, SOFFITS, A.C.T. CEILING AND GYPSUM BOARD CEILING, EQUIPMENT, LIGHT FIXTURES, MILLWORK, FURNITURE, FASCIA OR TRIM, ETC., WHICH ARE TO REMAIN ARE TO BE REPAIRED/REPLACED AT NO EXPENSE TO THE SCHOOL BOARD.
 - CONTRACTOR TO PROTECT ALL EXISTING INTERIOR FINISHES, MECHANICAL, ELECTRICAL, MILLWORK AND FURNITURE DURING ALL PHASES OF CONSTRUCTION.
 - REMOVE AND REINSTALL CEILINGS REQ'D TO BE DISTURBED DURING DEMOLITION AND CONSTRUCTION WHERE NEEDED. ADJUST CEILINGS ACCORDINGLY WHERE REQUIRED.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REFER TO ASBESTOS AUDIT PRIOR TO DEMOLITION WORKS.
 - CAREFULLY REMOVE SECTIONS OF EXISTING CEILING AS REQUIRED FOR PLUMBING WORK
- GENERAL DEMOLITION NOTES:**
- DRAWING TO BE READ IN CONJUNCTION W/ ALL OTHER CONTRACT DOCUMENTS INCLUDING ABATEMENT SPECIFICATION. COORDINATE W/ OTHER TRADES PRIOR TO COMMENCING WORK.
 - CARRY OUT ALL DEMOLITION, REMOVAL AND DISPOSAL IN ACCORDANCE WITH APPLICABLE PROVINCIAL AND LOCAL REGULATIONS.
 - EXECUTE DEMOLITION IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ADJACENT STRUCTURES AND FINISHES.
 - ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF THE REMAINING STRUCTURE, INCLUDING ALL NECESSARY BRACING OR SHORING THAT IS REQUIRED.
 - ALL DEMOLITION DEBRIS TO BE DISPOSED BY DEMOLITION/ABATEMENT TRADE UNLESS OTHERWISE NOTED.
 - ALL CONTRACTORS INCLUDING ABATEMENT TO REFER TO MECHANICAL AND ELECTRICAL DRAWINGS OR DEMOLITION NOTES FOR DETAILS OF SCOPE OF MECHANICAL AND ELECTRICAL DEMOLITIONS.
 - CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR, AND MAKE GOOD ALL DAMAGE TO ADJACENT FINISHED SURFACES AND ASSEMBLIES.
 - CONTRACTOR TO ENSURE ALL EXIT SIGNAGE TO REMAIN AS INSTALLED AND ENSURE FIXTURES ARE OPERATIONAL. CONTRACTOR TO PROVIDE RE-SUPPORT AS REQUIRED TO SUIT PHASING.
 - CONTRACTOR TO ENSURE ALL EMERGENCY LIGHT FIXTURES TO REMAIN ALONG EGRESS ROUTES.
 - PATCH AND MAKE GOOD ANY DAMAGED FIRE ASSEMBLIES WITH CONTINUOUS FIRESTOPPING/FIREBLOCKING EQUAL TO THAT OF WALL/FLOOR.
 - CONTRACTOR TO ENSURE ALL MANUAL PULL STATIONS AND FIRE ALARM BELLS REMAIN OPERATIONAL. IF A DEVICE MUST BE REMOVED, THE DEVICE MUST BE PROPERLY DE-PROGRAMMED BY LICENSED FIRE ALARM TECHNICIAN AND RE-ACTIVATED AT END OF WORKING DAY. FIRE WATCH MUST BE PROVIDED BY DEMOLITION/ABATEMENT TRADE WITHOUT ADDITIONAL COST TO OWNER OR CONSULTANT.
 - CONTRACTOR TO PROVIDE DUST CONTROL AND HOARDING IN ISOLATED DEMOLITION, TYP. FOR EACH LOCATION.
 - CONTRACTOR SHALL PATCH AND MAKE GOOD ALL FLOORS WHERE DISTURBED BY REMOVAL OF WALL ASSEMBLY AND/OR EXISTING FINISHES.
 - IF AN ITEM IS NOT NOTED TO BE REINSTALLED OR TURNED OVER TO THE OWNER, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DISPOSE OF ITEMS.
 - IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW ALL DESIGNATED SUBSTANCES DOCUMENTATION PRIOR TO COMMENCING WORK.
 - IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REMOVE ALL LOOSE FURNITURE AND WALL MOUNTED DISPLAYS PRIOR TO CONSTRUCTION START.

Q. ANY MECHANICAL OR ELECTRICAL DEVICES THAT MAY BE TEMPORARILY REMOVED AND REINSTALLED FOR THIS WORK SHALL BE TESTED.

- LOCATE AND DISCONNECT, CAP AND PLUG ALL GAS, WATER, SEWER, HYDRO, TELEPHONE AND OTHER SERVICES AS REQUIRED.
- PREPARE ALL THE SURFACES TO BE ACCEPTABLE FOR PROPOSED FINISHING AFTER DEMOLITION WORKS
- OBTAIN SCHOOL APPROVAL OF DEMOLITION SCHEDULE AND LOCATION OF BINS.

Ontario's 2012 Building Code		OBC Reference
Data Matrix Part 11		
11.1	Existing Building Classification	Describe Existing Use: GROUP A2 TO REMAIN (ELEMENTARY SCHOOL) Construction Index: - Hazard Index: - <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy)
11.2	Alteration to Existing Building is	Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/>
11.3	Reduction in Performance Level	Structural <input type="checkbox"/> No <input type="checkbox"/> Yes By Increase in Occupant Load <input type="checkbox"/> No <input type="checkbox"/> Yes By Change of Major Occupancy <input type="checkbox"/> No <input type="checkbox"/> Yes Plumbing <input type="checkbox"/> No <input type="checkbox"/> Yes Sewage-System <input type="checkbox"/> No <input type="checkbox"/> Yes
11.4	Compensating Construction	Structural <input type="checkbox"/> No <input type="checkbox"/> Yes (explain) - Increase in Occupant Load <input type="checkbox"/> No <input type="checkbox"/> Yes (explain) Change of Major Occupancy <input type="checkbox"/> No <input type="checkbox"/> Yes (explain) - Plumbing <input type="checkbox"/> No <input type="checkbox"/> Yes (explain) Sewage System <input type="checkbox"/> No <input type="checkbox"/> Yes (explain) -
11.5	Compliance Alternatives Proposed	<input type="checkbox"/> No <input type="checkbox"/> Yes (give number(s))
11.6	Alternative Measures Proposed	<input type="checkbox"/> No <input type="checkbox"/> Yes (give number(s))

- OBC NOTES:**
- MAJOR OCCUPANCY: GROUP A2 TO REMAIN (ELEMENTARY SCHOOL)
 - EXISTING BUILDING AREA: **3,928.35 m² (42,284.5 SF)**
 - AREA OF RENOVATION: **20 m² (215.3 SF)**
 - EXISTING BUILDING: UNSPRINKLERED
 - FIRE ALARM - EXISTING
 - PROVIDE A NEW BARRIER FREE WASHROOM.

DOOR & SCREEN SCHEDULE

Door/Screen	Width x Height x Thickness	Door/Screen				Frame				Hardware				Notes			
		Type / Elev	Material	Finish	Glazing	Grille	Type / Elev	Profile	Material	Finish	ULC	Closer	Threshold		Weather Strip	Fire Rating	Temp. Rise
01-Level																	
101	965x2134x51	1	HM	PNT	---	---	A	DF1	HM	PNT	No	No	No	No	-		PDO, ES, OHS
102	813x2134x51	1	HM	PNT	---	---	A	DF1	HM	PNT	No	No	No	No	-		OHS

DOOR PANEL ELEVATIONS: **DOOR FRAME ELEVATIONS**

DOOR ELEVATION LEGEND

1 ALUMINUM LOUVRE, WHERE INDICATED ON DOOR SCHEDULE

DOOR SCHEDULE LEGEND

HM HOLLOW METAL
PNT PAINT
PDO POWER DOOR OPERATOR
ES ELECTRIC STRICK
OHS OVERHEAD STOP
TGL TEMPERED GLASS

GENERAL NOTES:

FRAME HEAD HEIGHT TO BE 50mm (2") UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE

ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH 965mm [3'-2"] AND 1015mm [3'-4"] WITH PANIC SET

DOOR FRAME PROFILES:

LEGEND:

- LINE OF BASE BELOW - SEE FINISHES PLAN FOR BASE MATERIAL.
- FILL WITH GROUT (TYPICAL)
- PATCH TERRAZZO TILE BELOW

GENERAL NOTE:

- REFER TO SPEC. FOR CONCRETE BLOCK CORNER TREATMENT.
- FOR GLAZING TYPE REFER TO DOOR SCHEDULE.

CLIENT LOGO

CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT

LINCOLN HEIGHTS PS BARRIER FREE WASHROOM ADDITION

270 Quickfall Dr, Waterloo, ON N2J 3S9

TITLE

ASSEMBLIES, LEGENDS, NOTES AND OBC MATRIX

WALTERFEDY
KITCHENER | HAMILTON | TORONTO
800.685.1378 walterfeddy.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY WALTERFEDY IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO WALTERFEDY. DO NOT SCALE THIS DRAWING.

2022-0858-12

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SCALE: As indicated SHEET NO:

DATE: 2024.03.06

PROJECT NO: 2022-0858-12

DRAWN BY: HA

CHECKED BY: MM

A001

24-005209 Page 2 of 16

DRAWING NOTES

- 01 INSTALL A NEW HOLLOW METAL BARRIER FREE DOOR AND FRAME. REFER TO DOOR SCHEDULE.
- 02 POWER DOOR OPERATOR AND PUSH TO LOCK - REFER TO ELECTRICAL
- 03 FIXTURES AND SERVICES FOR BARRIER-FREE WASHROOM. WATER CLOSET WITH A WALL MOUNTED FLUSH SENSOR LOCATED ABOVE GRAB BAR. REFER TO TYPICAL DETAILS AND MECHANICAL.
- 04 140mm BLOCK WALL - PRIME AND PAINT
- 05 INSTALL A NEW HOLLOW METAL DOOR AND FRAME FOR STANDARD WASHROOM ENCLOSURE. REFER TO DOOR SCHEDULE.
- 06 EXISTING STRUCTURAL PIER TO REMAIN
- 07 EXISTING PLUMBING FIXTURES AND SERVICES TO REMAIN
- 08 HEATING PIPING CHASE. REFER TO MECHANICAL DRAWINGS
- 09 HAND DRYER - REFER TO TYPICAL DETAILS FOR INSTALLATION HEIGHT AND CLEARANCES.
- 10 RE-WORK: RELOCATE AND REPLACE EXISTING RADIATOR WITH A SURFACE MOUNTED RADIATOR SHIFTED TO ACCOMMODATE THE NEWLY INSTALLED BARRIER FREE DOOR. REFER TO MECHANICAL FOR COMPLETE SCOPE OF WORK. INFILL WALL, PATCH AND MAKE GOOD EXISTING WALL WHERE RECESSED RADIATOR IS BEING REMOVED. WORK WILL REQUIRE MULTIPLE COATS OF PAINT (MORE THAN 3) TO MATCH ADJACENT SURFACES.
- 11 EMERGENCY LIGHTING. REFER TO ELECTRICAL DRAWINGS.
- 12 EXISTING PLASTER CEILING TO REMAIN. ANY DAMAGE THAT OCCURS TO CEILING DURING CONSTRUCTION TO BE REPAIRED AND PATCHED WITH GYPSUM BOARD. PRIMED AND PAINTED TO MATCH EXISTING.
- 13 EXISTING LIGHT FIXTURES TO BE REPLACED WITH NEW LED LIGHT. REFER TO ELECTRICAL.
- 14 PATCH ANY DAMAGED TERRAZZO OCCURS DURING DEMOLITION AND CONSTRUCTION OF THE NEW DOORS.
- 15 SOAP DISPENSER. REFER TO TYPICAL DETAILS AND SPECIFICATIONS.
- 16 PROVIDE LINTEL 24.89x64x6.4 LVL BACK-TO-BACK ANGLES ABOVE DOOR OPENING PER TYPICAL DETAIL M105 ON DRAWING S002.
- 17 PUSH TO LOCK BOTTOM. REFER TO TYPICAL DETAILS AND SPECIFICATIONS.
- 18 GARMENT HOOK. REFER TO TYPICAL DETAILS AND SPECIFICATIONS.
- 19 TERRAZZO BASE TO REMAIN FOR EXISTING WALLS. REPAIR AND PATCH ANY DAMAGE OCCURS DURING CONSTRUCTION. ONLY NEW WALLS TO RECEIVE PORCELAIN TILE BASE AS INDICATED.
- 20 GENERAL CONTRACTOR TO NOTIFY TO CONSULTANT DURING CONSTRUCTION IF CEILING TILE CAN BE INSTALLED AT GREATER HEIGHT
- 21 PROVIDE LINTEL 24.89x64x6.4 BACK-TO-BACK ANGLES ABOVE DOOR OPENING IN EX. WALL PER TYPICAL DETAIL M105 ON DRAWING S002.

CEILING ASSEMBLIES

- C-X1 EXISTING PLASTER FINISH CEILING TO BE LEFT UNDISTURBED UNLESS OTHERWISE NOTED
- C-2 610 x 1220 ACOUSTIC CEILING TILE WITH PREFINISHED METAL T-BAR SUSPENSION SYSTEM

WALL ASSEMBLIES

- W-1 190mm CONCRETE BLOCK
- W-2 140mm CONCRETE BLOCK

WALLS TO EXTEND TO U/S OF STRUCTURE ABOVE. REFER TO DRAWINGS S001 AND S002 FOR WALL REINFORCEMENT AND LATERAL SUPPORTS.

FINISH LEGEND:

- | | | |
|----------------------------|-----------------------------------|----------------------------------|
| WALL & CEILING: | FLOOR: | BASE: |
| PF1 PAINT | PTF1 PORCELAIN FLOOR TILE | PTB1 PORCELAIN TILE BASE |
| PTW1 PORCELAIN WALL TILE | TTB1 EXISTING TERRAZZO FLOOR TILE | TTB2 EXISTING TERRAZZO TILE BASE |
| | | TS1 TRANSITION STRIP |

DEMOLITION NOTES

- 1 SAW CUT EXISTING NON-LOADBEARING CONCRETE BLOCK WALL WITH TERRAZZO BASE AS REQUIRED TO ACCOMMODATE NEW DOOR. PATCH AND MAKE GOOD ALL ADJACENT SURFACES TO REMAIN. PROVIDE TEMPORARY SHORING AS REQUIRED UNTIL PERMANENT LINTEL IS INSTALLED.
- 2 SHOWER AND WATER CLOSET STALLS C/W DOORS, MISC. STRAPS, ANCHORS AND FASTENERS TO BE REMOVED. PATCH AND MAKE GOOD ALL ADJACENT SURFACES. EQUIPMENT TO BE TURNED OVER TO THE OWNER.
- 3 RESERVED
- 4 EXISTING PLUMBING FIXTURES AND SERVICES TO REMAIN.
- 5 REMOVE AND DISPOSE OF EXISTING PLASTER CEILING AND METAL SUSPENSION SYSTEM IN ITS ENTIRETY. PATCH AND MAKE GOOD ALL ADJACENT SURFACES TO REMAIN TO ACCEPT NEW CEILING.
- 6 CLEAN AND PATCH EXISTING TERRAZZO FLOORING TO REMAIN. PREPARE SUBSTRATE AND CUT OFF TERRAZZO BASE TO ACCEPT PROPOSED FLOOR AND BASE FINISH.
- 7 EXISTING RADIATOR TO BE RE-WORKED AND RELOCATED AS REQUIRED TO ACCOMMODATE PROPOSED WALL OPENING AND BARRIER FREE DOOR - CUT EXISTING CONCRETE BLOCK ASSEMBLY AS REQUIRED. REFER TO MECHANICAL FOR COMPLETE SCOPE OF WORK. PATCH AND MAKE GOOD ALL SURFACES TO REMAIN TO ACCEPT PROPOSED FINISHES.
- 8 EXISTING LIGHT FIXTURES TO BE REMOVED AND DISPOSED. REFER TO ELECTRICAL DRAWINGS.
- 9 REMOVE EXISTING SHOWER FIXTURES COMPLETE. CAP, INFILL WALL AS REQUIRED TO MAKE GOOD. PRIME AND PAINT WALLS WHERE WALL TILES ARE NOT BEING INSTALLED.
- 10 REMOVE TERRAZZO CURB AS REQUIRED FOR SANITARY AND SAW CUT EXISTING CONCRETE CURB. REPAIR SLAB-ON-GRADE AS REQUIRED PER TYPICAL DETAIL C206 ON DRAWING S002. PATCH EXISTING TERRAZZO AS REQUIRED WITHIN STANDARD WASHROOM SURFACE FROM REMOVED CURB TO BE FILLED AS REQUIRED TO CREATE A LEVEL SURFACE. PREPARE SUBSTRATE TO RECEIVE PROPOSED FLOOR FINISH.
- 11 EXISTING TERRAZZO CURB OUTSIDE BARRIER FREE WASHROOM ENCLOSURE TO REMAIN IN PLACE

CEILING LEGEND

- DENOTES AREAS NOT IN SCOPE
- C-1 CEILING ASSEMBLY
- XXXX CEILING HEIGHT ABOVE FINISHED FLOOR
- ⊗ RECESSED LED LIGHT FIXTURE. REFER TO ELEC. DRAWINGS FOR TYPE AND SIZE
- CEILING MOUNTED FLUORESCENT LIGHT FIXTURES
- MECHANICAL EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR TYPE AND SIZE
- ⊘ EXHAUST DUCT

HATCHED AREA DENOTES APPROX. AREA OF CEILING REMOVAL TO ACCOMMODATE MECH. ELEC. STRUC. WORK. FINAL REMOVAL EXTENTS TO BE COORDINATED ON SITE.

GYPSUM/PLASTER:

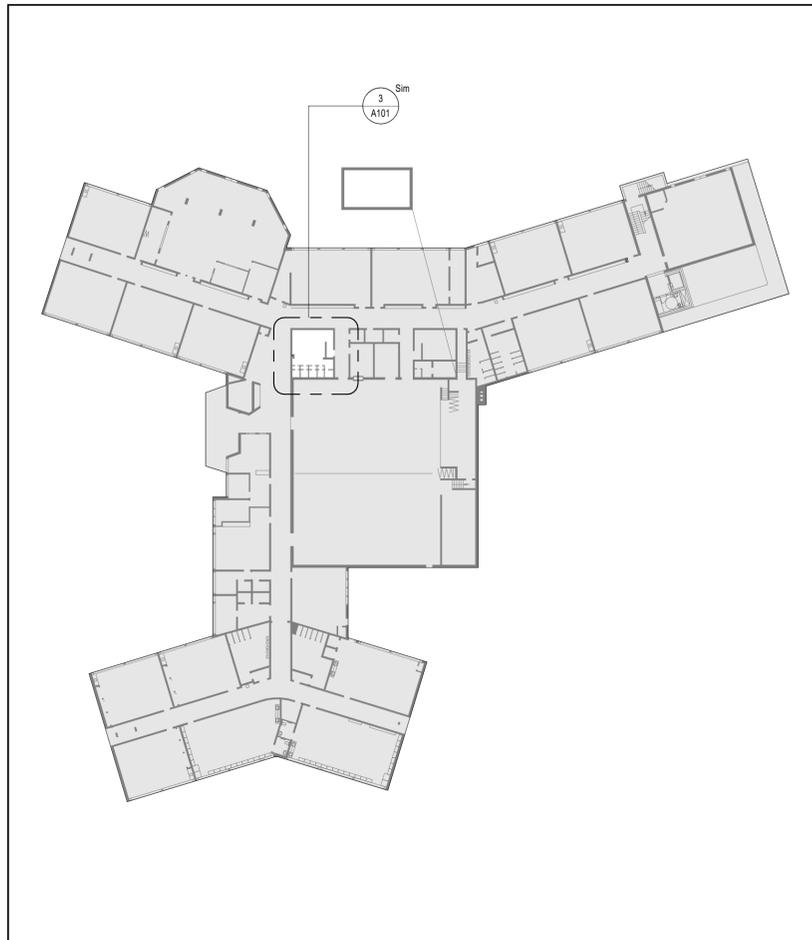
- CAREFULLY REMOVE AS REQ'D. PROTECT ADJACENT SURFACES AND FINISHES.
- PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW GYPSUM CEILING C/W METAL SUSPENSION SYSTEM AT AREAS OF REMOVAL.
- PRIME AND PAINT TO MATCH EXISTING ADJACENT.

DRAWING LEGEND:

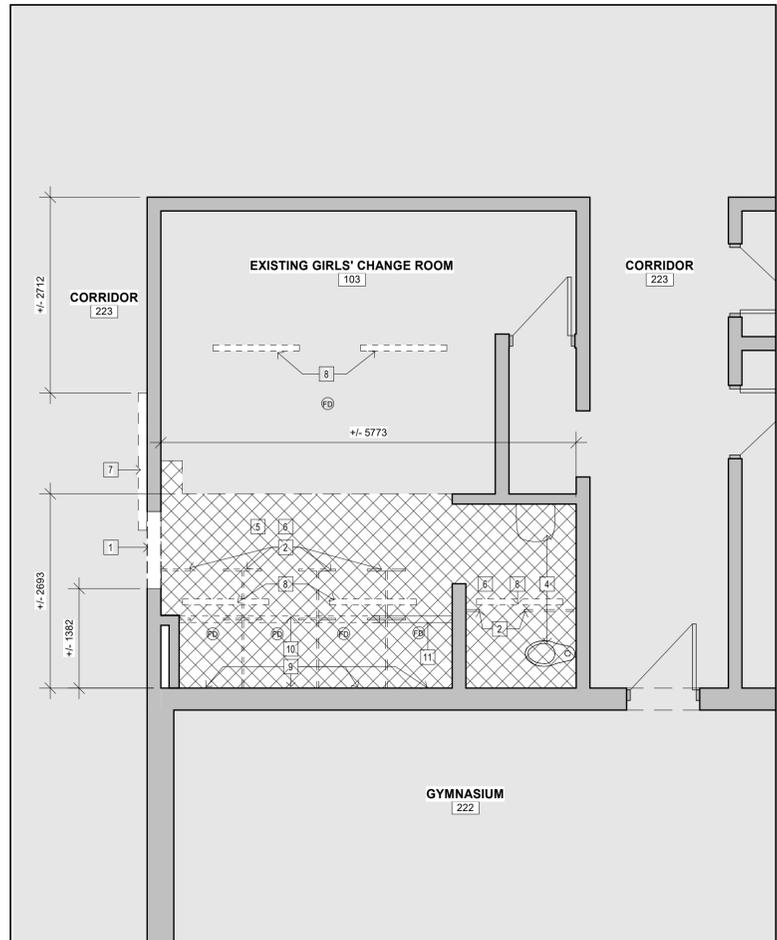
- FD FLOOR DRAIN - REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK.

ROOM LEGEND

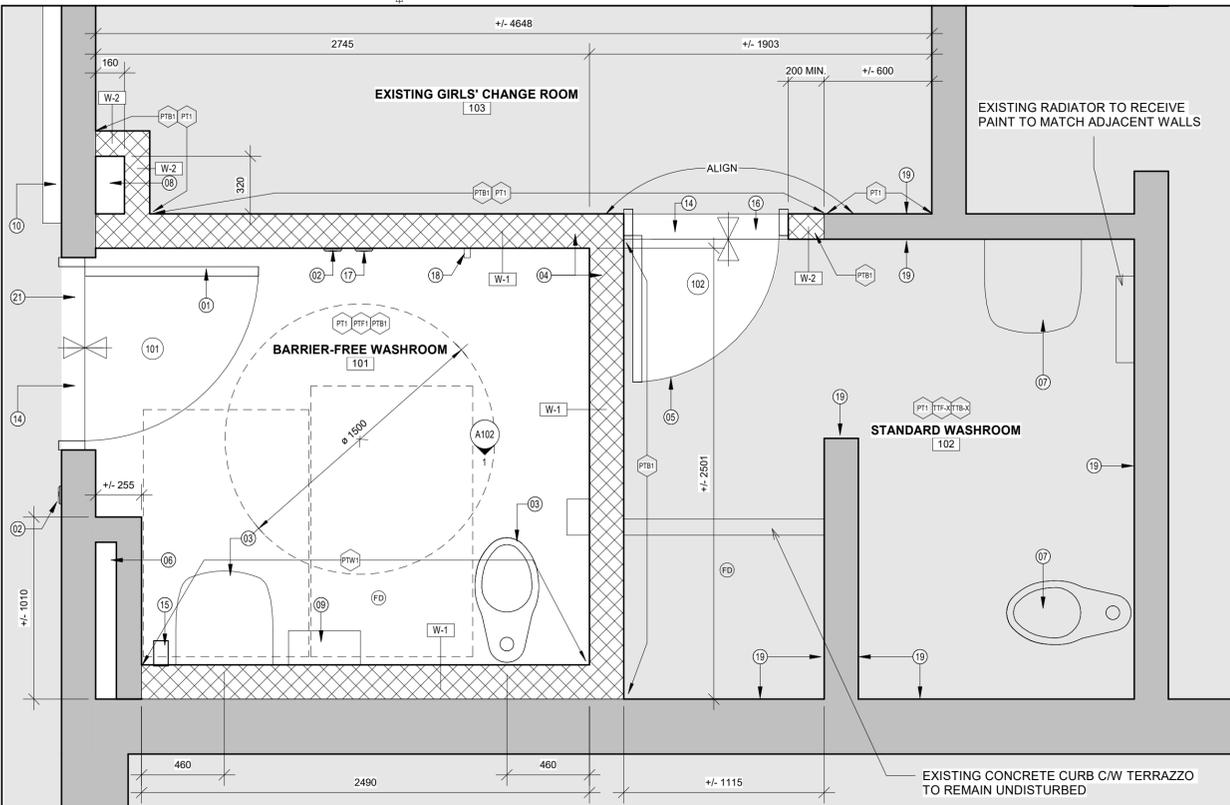
- | |
|---------------------------------|
| 101 BARRIER-FREE WASHROOM |
| 102 STANDARD WASHROOM |
| 103 EXISTING GIRLS' CHANGE ROOM |



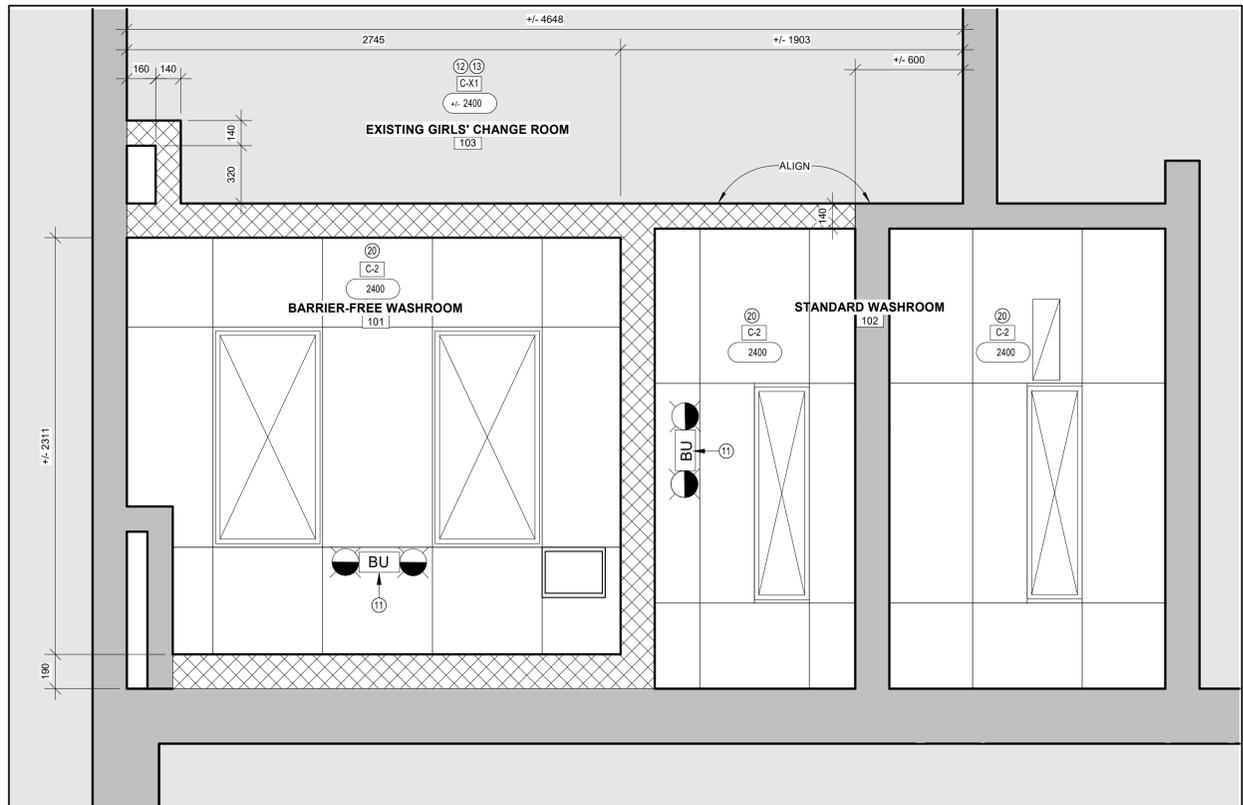
1 OVERALL FLOOR PLAN LEVEL 01- FOR REFERENCE ONLY
A101 Scale: 1 : 500



2 DEMOLITION PLAN LEVEL 01 - EXISTING GIRLS' CHANGE ROOM
A101 Scale: 1 : 50



3 FLOOR PLAN - BARRIER-FREE WASHROOM
A101 Scale: 1 : 20

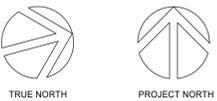
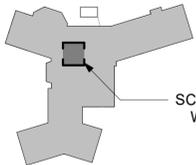


4 REFLECTED CEILING PLAN - BARRIER FREE WASHROOM
A101 Scale: 1 : 20

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1	ISSUED FOR 60% OWNER REVIEW	2024-01-31
2	ISSUED FOR 90% OWNER REVIEW	2024-02-29
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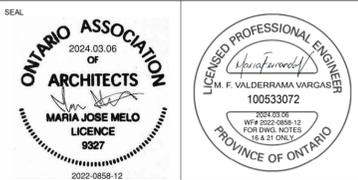
PROJECT
LINCOLN HEIGHTS PS BARRIER FREE WASHROOM ADDITION

270 Quickfall Dr, Waterloo, ON N2J 3S9

TITLE
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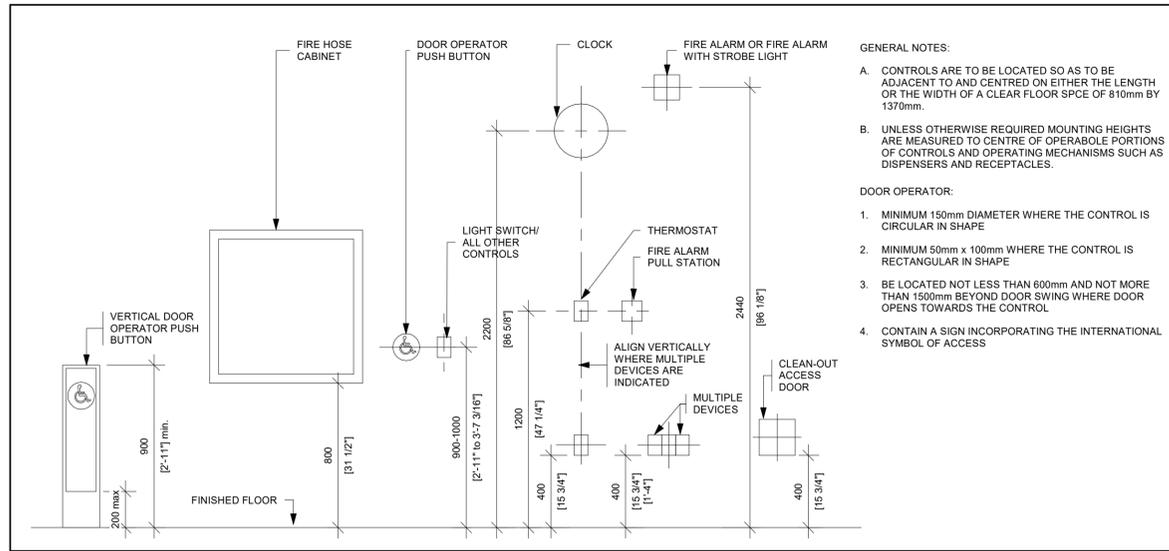
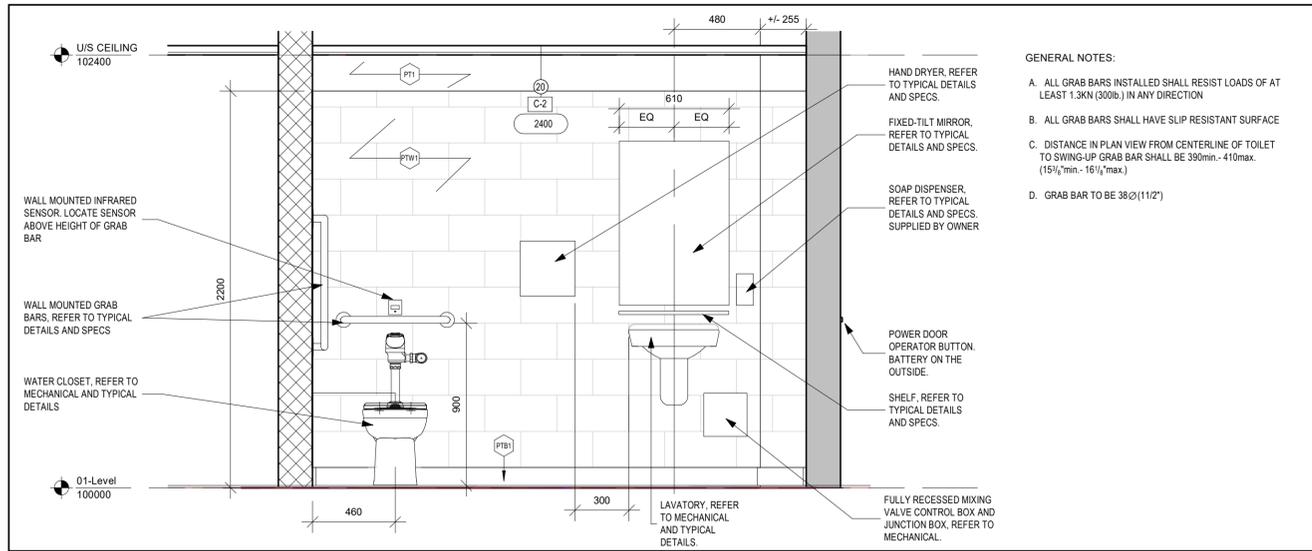
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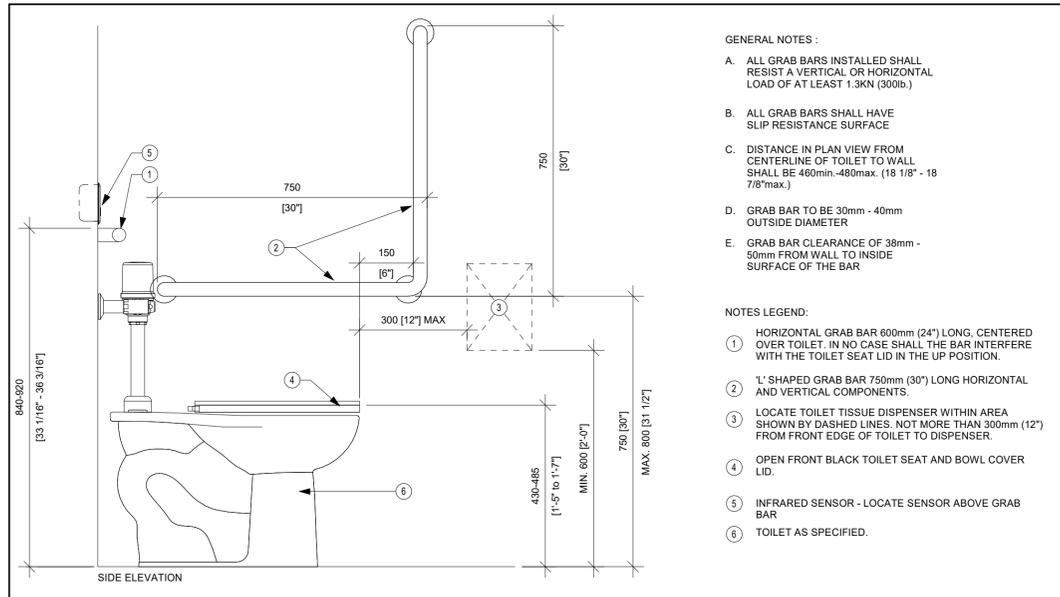
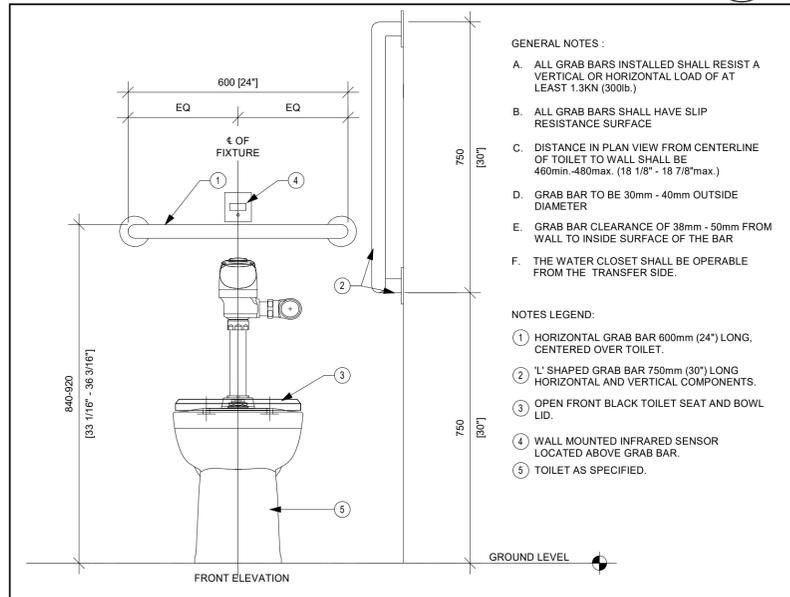
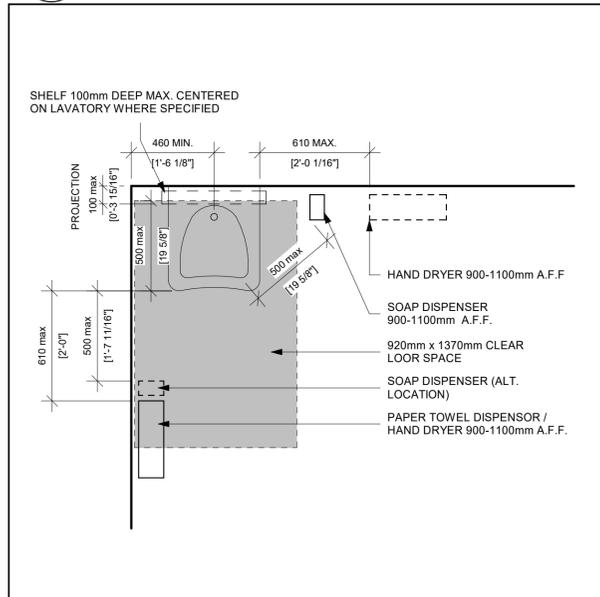
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1 BARRIER FREE WASHROOM - ELEVATION
A102 Scale: 1 : 20

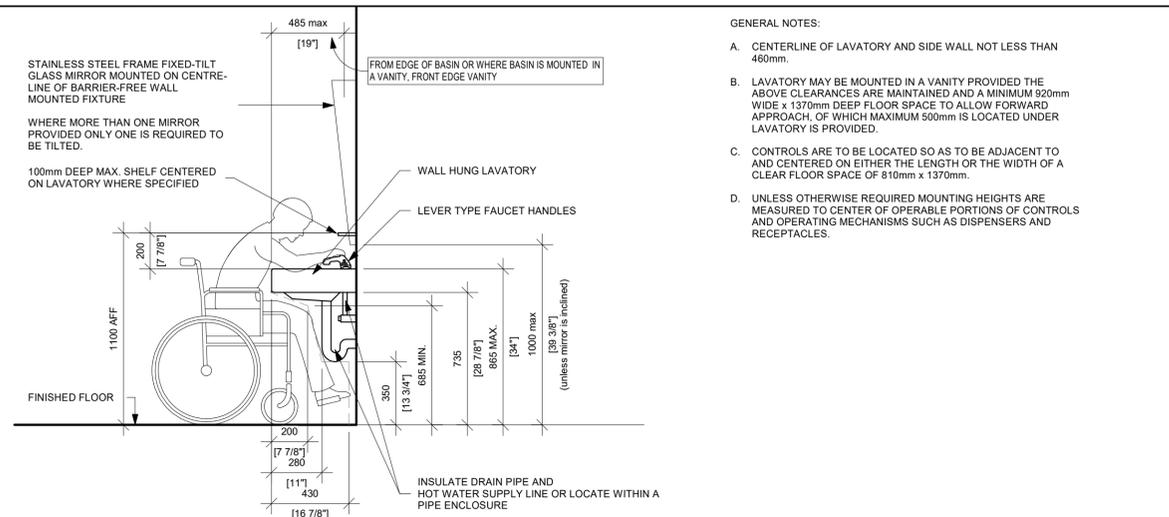
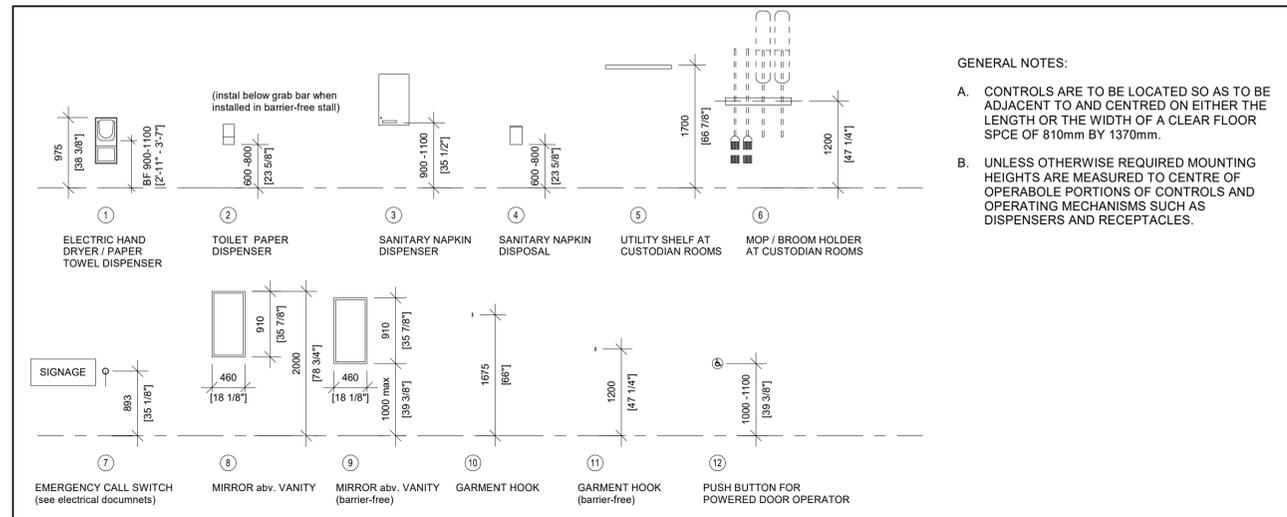
2 TYPICAL FIXTURE MOUNTING HEIGHTS
A102 Scale: 1 : 20



3 TYPICAL BARRIER FREE LAVATORY PLAN
A102 Scale: 1 : 20

4 TYPICAL B.F. 'L' GRAB AND ACCESS. WITH WALL MOUNTED SENSOR
A102 Scale: 1 : 10

5 TYPICAL B.F. 'L' GRAB BAR AND ACCESS. FOR SENSOR TOILETS WITH COVER LID
A102 Scale: 1 : 10



6 TYPICAL WASHROOM ACCESSORY MOUNTING HEIGHTS
A102 Scale: 1 : 50

7 TYPICAL ACCESSIBLE LAVATORY MOUNTING HEIGHTS AND DISTANCES
A102 Scale: 1 : 20

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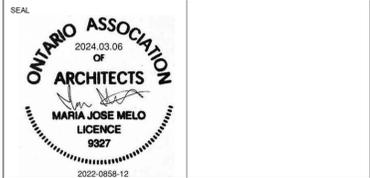
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PROJECT
LINCOLN HEIGHTS PS BARRIER FREE WASHROOM ADDITION

270 Quickfall Dr, Waterloo, ON N2J 3S9

TITLE
BARRIER FREE WASHROOM ELEVATION AND TYPICAL DETAILS

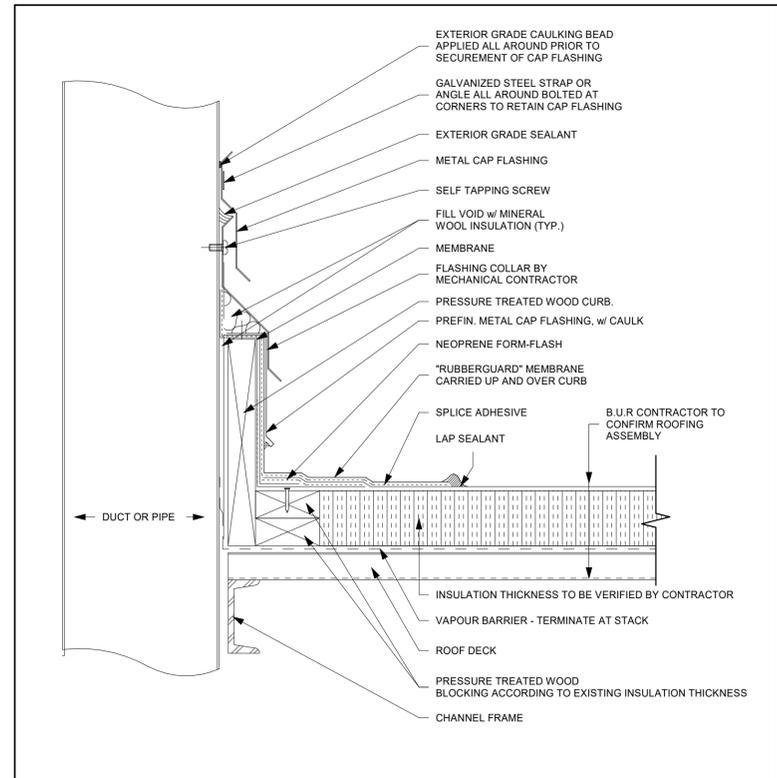
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3 TYPICAL VENT STACK DETAIL
A103 Scale: 1 : 5

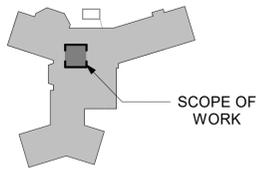


1 SITE PLAN FOR REFERENCE ONLY
A103 Scale: 1 : 1

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KEYPLAN



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PROJECT
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270 Quickfall Dr, Waterloo, ON N2J 3S9

TITLE
TYPICAL ROOFING DETAILS

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PROJECT NO:	2022-0858-12		
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A. GENERAL

- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2012 ONTARIO BUILDING CODE AND ANY APPLICABLE ACTS OF THE AUTHORITY HAVING JURISDICTION.
- READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
- VERIFY ALL STRUCTURAL DIMENSIONS WITH THE CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS, REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE MOST STRINGENT REQUIREMENT GOVERNS WHERE DISCREPANCIES OCCUR WITHIN THE CONTRACT DOCUMENTS, INCLUDING APPLICABLE CODES, STANDARDS AND ACTS.
- REFER TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, DEPRESSIONS, GROOVES, CURBS, CHAMFERS, SLOPES, SLEEVES, EQUIPMENT BASES, HOUSEKEEPING PADS, TRENCHES, SUMP PITS AND EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- OPENINGS AND SLEEVES SHOWN ARE LOCATED AND DIMENSIONED FOR STRUCTURAL DETAILING PURPOSES ONLY. COORDINATE THE EXACT SIZES AND LOCATIONS WITH THE CONSULTANT AND APPLICABLE TRADES DURING CONSTRUCTION. REPORT ANY CONFLICTS TO THE CONSULTANT.
- DO NOT CUT, DRILL OR ALTER STRUCTURAL MEMBERS WITHOUT PERMISSION FROM THE CONSULTANT, UNLESS NOTED ON THE DRAWINGS.
- THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY, TEMPORARY WORKS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS SHOWN ON THE DRAWINGS.
- PROVIDE ALL TEMPORARY SHORING, BRACING, HOARDING AND PROTECTION NECESSARY TO COMPLETE THE WORK AND COMPLY WITH APPLICABLE REGULATIONS. TEMPORARY WORKS TO BE DESIGNED AND INSPECTED BY A PROFESSIONAL ENGINEER WHO IS RETAINED BY THE CONTRACTOR.

B. EXISTING CONDITIONS

- EXISTING STRUCTURE AND DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE, AND ARE PROVIDED TO CONVEY DESIGN INTENT ONLY. THE DESIGN IS BASED ON THE INFORMATION CONTAINED IN THE RECORD DRAWINGS FOR THE EXISTING BUILDINGS, AND ON LIMITED SITE OBSERVATIONS. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES OR CONDITIONS ENCOUNTERED THAT COULD POTENTIALLY AFFECT THE WORK, AND OBTAIN DIRECTION BEFORE PROCEEDING.
- LOCATE ALL EXISTING BURIED UTILITIES AND STRUCTURES. REFER TO CIVIL, MECHANICAL, AND ELECTRICAL DOCUMENTS FOR APPROXIMATE LOCATION OF ALL PROPOSED AND KNOWN EXISTING SERVICES. REMOVE, RELOCATE OR PROVIDE PROTECTION DURING CONSTRUCTION, AS DIRECTED BY THE CONSULTANT.
- PROTECT EXISTING STRUCTURES FROM DAMAGE DURING CONSTRUCTION. PATCH AND MAKE GOOD ALL EXISTING BUILDING ELEMENTS DISTURBED OR DAMAGED AS PART OF THE WORK.

C. STRUCTURAL STEEL

- PERFORM WORK IN ACCORDANCE WITH CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE.
- CONNECTIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS TO INDICATE DESIGN INTENT. ALL CONNECTIONS ARE BEARING TYPE WITH A MINIMUM OF 2-19 (3/4") Ø BOLTS UNLESS NOTED OTHERWISE.
- DESIGN CONNECTIONS FOR FORCES INDICATED ON THE STRUCTURAL DRAWINGS. WHERE CONNECTION FORCES ARE NOT PROVIDED, DESIGN CONNECTIONS FOR THE FOLLOWING FORCES:
 - FACTORED SHEAR FORCE OF 50% OF THE TOTAL UNIFORMLY DISTRIBUTED FACTORED LOAD FOR Laterally supported beams listed in the beam load tables of the CISC HANDBOOK OF STEEL CONSTRUCTION FOR END CONNECTIONS OF SIMPLY SUPPORTED NON-COMPOSITE BEAMS.
- PROVIDE 50 (2") NON-SHRINK, NON-METALLIC GROUT UNDER BASE PLATES UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR STAIRS, LADDERS, HANDRAILS, PLATFORMS, AND OTHER ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS.
- PROVIDE FIRE PROTECTION FOR STRUCTURAL STEEL IN ACCORDANCE WITH THE ARCHITECTURAL REQUIREMENTS. PROVIDE COMPATIBLE COATINGS OR SURFACE PREPARATION FOR STEEL MEMBERS TO FIRE-SPRAYED OR COATED WITH INTUMESCENT PAINT.
- ALL BOLTS ARE TO BE INSTALLED SNUG-TIGHT, AS DEFINED IN CSA S16.
- GRIND SMOOTH ALL WELDS AND FLAME-CUT EDGES EXPOSED TO VIEW.

D. MATERIALS

- STRUCTURAL CONCRETE:
 - CONCRETE: CONFORMING TO CSA A23.1 AND PER THE CONCRETE DESIGN PROPERTIES TABLE.
 - REINFORCING BARS: CONFORMING TO CSA G30.18, GRADE 400R (OR 400W WHERE WELDING IS REQUIRED). ALL REINFORCING TO BE BLACK STEEL UNLESS NOTED.
 - WELDED WIRE REINFORCING: CONFORMING TO ASTM A185/A185M, WITH MINIMUM YIELD STRENGTH OF 450 MPa, OR 386 MPa FOR DIAMETERS LESS THAN MW7.7 (3.1mm).
- STRUCTURAL STEEL:
 - CHANNELS AND ANGLES CSA-G40.20/G40.21, GRADE 350W
 - PLATES, RODS AND BARS CSA-G40.20/G40.21, GRADE 300W
 - STRUCTURAL BOLTS ASTM A325/A325M
 - NUTS AND WASHERS ASTM A563/A563M AND ASTM F436/F436M E49XX
 - WELDING ELECTRODES
- STRUCTURAL MASONRY:
 - CONCRETE MASONRY UNITS: CONFORMING TO CSA 165, 15 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
 - MASONRY GROUT: CONFORMING TO CSA 179, 15 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, 10mm (3/8") MAXIMUM AGGREGATE SIZE, 250 mm (10") SLUMP.
 - MORTAR: CONFORMING TO CSA 179, TYPE S FOR LOAD BEARING WALLS, TYPE N OTHERWISE.
 - MASONRY TIES: CONFORMING TO CSA A370.
 - REINFORCING BARS: CONFORMING TO CSA G30.18, GRADE 400R (OR 400W WHERE WELDING IS REQUIRED). ALL REINFORCING TO BE BLACK STEEL UNLESS NOTED.
 - BED JOINT REINFORCING: LADDER TYPE, SIDE RODS CONFORMING TO ASTM A82, HOT-DIPPED GALVANIZED UNLESS NOTED, TYPE BL BY BLOK-LOK OR APPROVED ALTERNATE.
- NON-SHRINK GROUT: NON-METALLIC, 35 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.

E. STRUCTURAL CONCRETE

- PERFORM WORK IN ACCORDANCE WITH CSA A23.1 AND CSA A23.3.
- DO NOT LOAD CONCRETE ELEMENTS UNTIL DESIGN STRENGTH HAS BEEN REACHED.
- SUPPLY AND PLACEMENT:
 - CONCRETE IS SPECIFIED UNDER THE PERFORMANCE ALTERNATIVE AND RESPONSIBILITIES OF THE CONTRACTOR AND CONCRETE SUPPLIER, ARE AS DEFINED IN CSA A23.1 TABLE 5. THE CONTRACTOR SHALL WORK WITH THE SUPPLIER TO ESTABLISH THE CONCRETE MIX PROPERTIES TO MEET PERFORMANCE CRITERIA FOR PLASTIC AND HARDENED CONCRETE, CONSIDERING THE CONTRACTOR'S CRITERIA FOR CONSTRUCTION AND PLACEMENT AND THE SPECIFIED PERFORMANCE CRITERIA.
 - PROTECT CONCRETE FROM FREEZING AND HOT WEATHER IN ACCORDANCE WITH THE COLD AND HOT WEATHER CONCRETE PROCEDURES OF CSA A23.1.
 - PLACE CONCRETE IN A MANNER TO MINIMIZE SEGREGATION AND VIBRATE AFTER PLACEMENT.
- REFER TO TYPICAL DETAILS FOR DETAILING OF REINFORCING, JOINTS AND DIMENSIONS.
- REINFORCING:
 - DETAIL AND PLACE REINFORCING STEEL IN ACCORDANCE WITH CSA A23.1, CSA A23.3 AND THE REINFORCING STEEL INSTITUTE OF CANADA MANUAL OF STANDARD PRACTICE.
 - PROVIDE LAP SPLICES FOR WELDED WIRE REINFORCEMENT AS FOLLOWS:

SPACING	MINIMUM LAP
50x50 (2x2)	250 (10")
100x100 (4x4)	350 (14")
150x150 (6x6)	500 (18")
 - TIE AND SECURE ALL REINFORCING IN PLACE USING PURPOSE MADE ACCESSORIES, WITH MAXIMUM SPACING 1200 (48") BETWEEN SUPPORT POINTS, IN ORDER ACHIEVE SPECIFIED COVER AND MAINTAIN POSITION DURING CONCRETE PLACEMENT. PROVIDE SIDE CHAIRS IN ALL VERTICAL ELEMENTS.
 - REINFORCING STEEL SHALL BE FREE OF ALL DIRT, FORM OIL, SIGNIFICANT CORROSION, GREASE, AND OTHER DELETERIOUS MATERIALS PRIOR TO PLACING CONCRETE.
 - DO NOT FIELD-BEND OR FIELD-CUT REINFORCING STEEL UNLESS DETAILED ON THE DRAWINGS OR APPROVED BY THE CONSULTANT.

G. GENERAL REVIEW

- WALTERFEDY WILL PERFORM PERIODIC FIELD REVIEWS OF A REPRESENTATIVE SAMPLE OF THE WORK TO CONFIRM THAT THE WORK FOR WHICH WE ARE RESPONSIBLE IS IN GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- GENERAL REVIEW OF WORK DESIGNED BY OTHER PROFESSIONAL ENGINEERS (STAMPED SHOP DRAWINGS) IS TO BE PERFORMED BY THE ENGINEER RESPONSIBLE FOR THAT DESIGN. SUBMIT FIELD REVIEW REPORTS TO THE CONSULTANT.
- COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING AGENCIES RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS REQUIRED FOR THE SAFE PERFORMANCE OF THEIR WORK.
- PROVIDE REASONABLE NOTICE FOR FIELD REVIEWS AND INSPECTIONS OF COMPLETED WORK, PRIOR TO CONCEALING OR ATTACHING TO THE WORK.
- FIELD REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WITH THE CONTRACT DOCUMENTS.

H. SUBMITTALS

- SUBMIT THE FOLLOWING ERECTION AND FABRICATION SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION:
 - CONCRETE REINFORCING BARS
 - CONCRETE MIX DESIGN
 - ALL TESTING AND FIELD REPORTS PERFORMED BY OTHERS
- SHOP DRAWINGS WILL BE REVIEWED SOLELY TO ASCERTAIN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT. THE CONSULTANT'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWING OR RESPONSIBILITY FOR MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

F. STRUCTURAL MASONRY

- PERFORM WORK IN ACCORDANCE WITH CSA A371.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING MASONRY PARTITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE MINIMUM REINFORCING AND LINTELS IN NON-LOAD BEARING MASONRY WALLS PER SCHEDULES ON THE STRUCTURAL DRAWINGS. THESE WALLS AND LINTELS ARE NOT DETAILED ON THE STRUCTURAL DRAWINGS.
- PROVIDE CONTROL JOINTS PER THE SPECIFICATION, AND IS INDICATED ON THE ARCHITECTURAL DRAWINGS. MAXIMUM SPACING OF CONTROL JOINTS TO BE 7650 (25'-0") UNLESS NOTED OTHERWISE.
- FILL MASONRY UNITS WITH GROUT AS FOLLOWS:
 - ALL CELLS CONTAINING REINFORCING
 - ALL CELLS CONTAINING DOWELS, ANCHORS, OR OTHER STRUCTURAL CONNECTORS.
 - ALL CELLS IN PARAPETS
 - CELLS BELOW BEARING CONNECTIONS PER STRUCTURAL DRAWINGS.
 - AS INDICATED ON THE STRUCTURAL DRAWINGS.
- PROVIDE CLEANOUTS AT BASE OF WALL LIFTS TO VERIFY PROPER PLACEMENT OF GROUT.
- PLACE GROUT IN MAXIMUM 3000 (10'-0") LIFTS. THE MAXIMUM LIFT HEIGHT IS REDUCED TO 1500 (5'-0") IF NO CLEANOUTS ARE PROVIDED.
- TERMINATE GROUT PLACEMENT 25 (1") BELOW TOP OF UPPER UNIT FOR HORIZONTAL CONSTRUCTION JOINTS IN GROUTED BLOCK CELLS. HORIZONTAL CONSTRUCTION JOINTS ARE REQUIRED WHERE GROUT PLACEMENT IS INTERRUPTED FOR A DURATION OF GREATER THAN 1 HOUR.
- BUILD MASONRY TIGHTLY INTO WEBS OF STEEL BEAMS BEARING ON WALLS, WEBS OF STEEL COLUMNS AND AROUND JOIST SHOES, UNLESS NOTED OTHERWISE.
- ENSURE THAT EMBEDDED ITEMS DO NOT AFFECT THE STRUCTURAL INTEGRITY OF THE MASONRY WALL OR IMPACT PLACEMENT OF REINFORCING.
- PROVIDE TEMPORARY BRACING TO MAINTAIN STABILITY OF WALLS UNTIL HORIZONTAL SUPPORTING ELEMENTS ARE IN-PLACE.
- BEARING SUPPORTS:
 - PROVIDE MINIMUM 200 (8") DEEP SOLID OR GROUT-FILLED MASONRY UNITS BELOW MASONRY, CONCRETE AND STEEL LINTELS AT BEARING LOCATIONS, PROJECTING AT LEAST 150 (6") BEYOND EDGE OF BEARING PLATES.
- NON-LOAD BEARING WALLS:
 - PROVIDE THE MINIMUM REINFORCING SHOWN IN THE NON-LOAD BEARING MASONRY WALL REINFORCING TABLE.
 - PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE DRAWINGS AND TYPICAL DETAILS.
- MASONRY REINFORCING:
 - PROVIDE MASONRY REINFORCING WHERE INDICATED ON THE DRAWINGS, TYPICAL DETAILS AND SPECIFICATIONS.
 - PROVIDE REINFORCING BAR EMBEDMENT AND LAP SPLICES IN ACCORDANCE WITH CSA, AND NOT LESS THAN THE VALUES IN THE MASONRY REINFORCING EMBEDMENT AND LAP SPLICE LENGTHS TABLE.
 - ALL TENSION LAP SPLICES ARE CLASS B UNLESS NOTED OTHERWISE.
 - LAP BED JOINT REINFORCING MINIMUM 300 (12").
 - PROVIDE 1-15M VERTICAL BAR EACH SIDE OF CONTROL JOINTS, FULL HEIGHT.
 - KEEP CELLS CONTAINING REINFORCING FREE FROM MORTAR DROPPINGS.
- LINTELS:
 - PROVIDE LINTELS OVER ALL OPENINGS THROUGH MASONRY WALLS SHOWN ON THE ARCHITECTURAL DRAWINGS, AND AS REQUIRED FOR MECHANICAL AND ELECTRICAL TRADES.
 - PROVIDE STEEL LINTELS UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS.
 - REFER TO THE STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS TABLE FOR LINTEL REQUIREMENTS FOR ALL NON-LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
- BOND BEAMS:
 - PROVIDE BOND BEAMS IN ALL WALLS PER THE BOND BEAMS IN CONCRETE MASONRY UNIT WALLS TABLE, AND WHERE INDICATED ON THE STRUCTURAL DRAWINGS.
 - EXTEND BOND BEAMS 200 (8") BEYOND OPENINGS WHERE NOT CONTINUOUS, UNLESS NOTED OTHERWISE.

NON-LOAD BEARING MASONRY WALL REINFORCING

WALL THICKNESS	LOCATION	VERTICAL REINF.	SPACING	HORIZONTAL REINF.
140	INTERIOR PARTITION	1-10M	600	BLOK-LOK BL-10 X-HEAVY @ 400
190	INTERIOR PARTITION	1-15M	1200	BLOK-LOK BL-10 STD @ 200
190	EXTERIOR	1-15M	800	BLOK-LOK BL-10 X-HEAVY @ 200

- NOTES:
- PROVIDE REINFORCING FOR CONCRETE MASONRY WALLS AS PER THE SCHEDULE UNLESS NOTED OTHERWISE.
 - PROVIDE DOWELS INTO CONCRETE FOUNDATIONS AND SLAB THICKENINGS TO MATCH VERTICAL WALL REINFORCEMENT. UNLESS NOTED OTHERWISE.
 - REFER TO TYPICAL DETAILS FOR ADDITIONAL SUPPORT REQUIREMENTS.

CONCRETE DESIGN PROPERTIES

ELEMENT	LOCATION	COMPRESSIVE STRENGTH (MPa)	EXPOSURE CLASS	CHLORIDE EXPOSURE	FREEZE/THAW EXPOSURE	REMARKS
SLAB-ON-GRADE	INTERIOR	25	N-CF	NO	NO	NO SUPPLEMENTARY CEMENTING MATERIALS
MISCELLANEOUS CONCRETE	INTERIOR	25	N	NO	NO	--

- NOTES:
- HIGHEST STRENGTH AND MOST-SEVERE EXPOSURE CONDITION WHERE MULTIPLE CONDITIONS ARE APPLICABLE.
 - COMPRESSIVE STRENGTH DENOTED IS A MINIMUM VALUE AT 28 DAYS, UNLESS NOTED OTHERWISE.
 - ALL CONCRETE MIXES TO BE PROPORTIONED AS NORMAL DENSITY CONCRETE, UNLESS NOTED OTHERWISE.
 - NOMINAL AGGREGATE SIZE IS 20mm (3/4") UNLESS NOTED OTHERWISE.

TABLE M4: MASONRY REINFORCING EMBEDMENT AND LAP SPLICE LENGTHS

BAR SIZE	VERTICAL REINFORCEMENT		HORIZONTAL REINFORCEMENT	
	TENSION EMBEDMENT	TENSION LAP	TENSION EMBEDMENT	TENSION LAP
10M	575mm (23")	750mm (30")	750mm (30")	950mm (38")
15M	800mm (32")	1050mm (42")	1050mm (42")	1350mm (54")
20M	975mm (39")	1275mm (51")	1275mm (51")	1650mm (66")
25M	1575mm (63")	2050mm (82")	2050mm (82")	2650mm (106")

- NOTES:
- BAR DIAMETER NOT TO EXCEED 25M PER CSA S304-14.

TABLE M2: BOND BEAMS IN CONCRETE MASONRY UNIT WALLS

WALL TYPE	LOCATION	HEIGHT	REINFORCING (PER COURSE)
ALL	BELOW ALL OPENINGS	1 COURSE	1-10M
	ABOVE ALL PIPES GREATER THAN 100 (4") DIAMETER THROUGH WALL	1 COURSE	1-10M

- NOTES:
- REFER TO STRUCTURAL MASONRY GENERAL NOTES.

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PROJECT

LINCOLN HEIGHTS PS BARRIER FREE WASHROOM ADDITION

270 Quickfall Dr, Waterloo, ON N2J 3S9

TITLE

STRUCTURAL GENERAL NOTES AND TABLES

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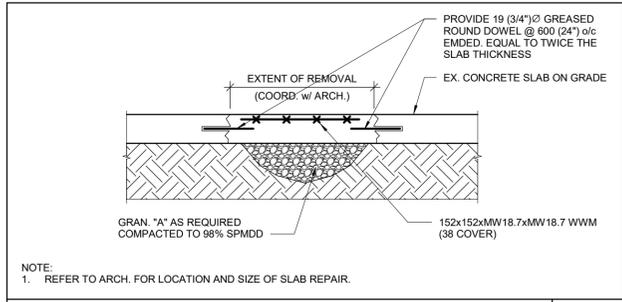
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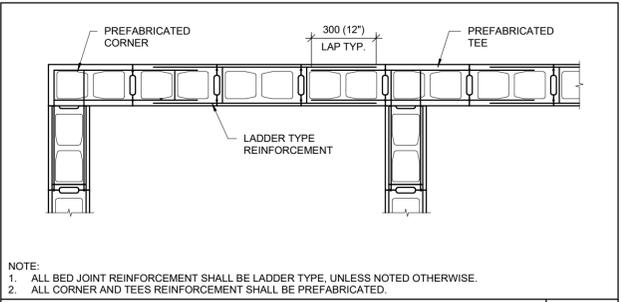
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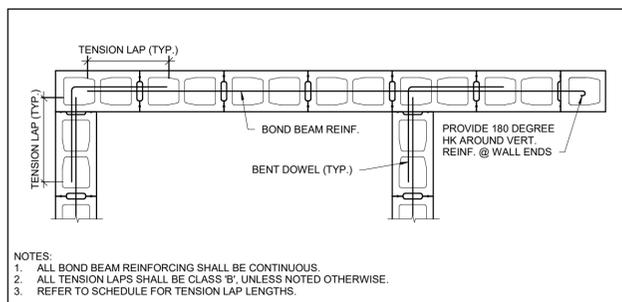
SCALE:	1 : 1	SHEET NO: S001
DATE:	02/22/2024	
PROJECT NO:	2022-0858-12	
DRAWN BY:	TA/DM	
CHECKED BY:	MV	



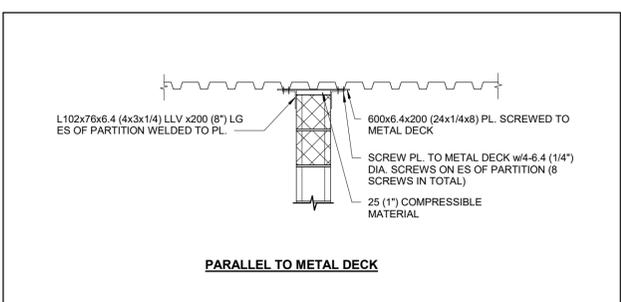
SLAB-ON-GRADE REPAIR **C206**



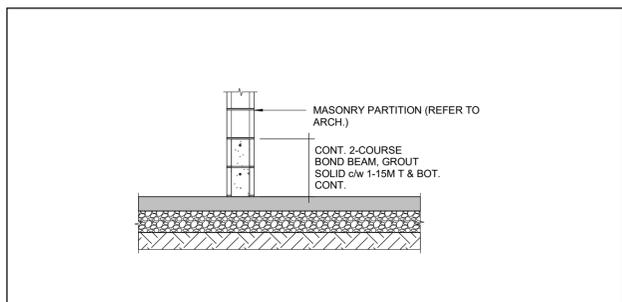
BED JOINT REINFORCEMENT **M102**



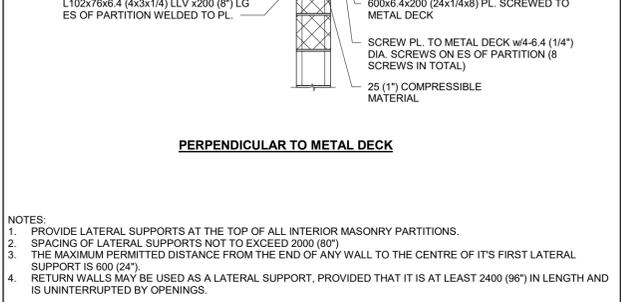
BOND BEAM REINFORCING SCHEMATIC **M103**



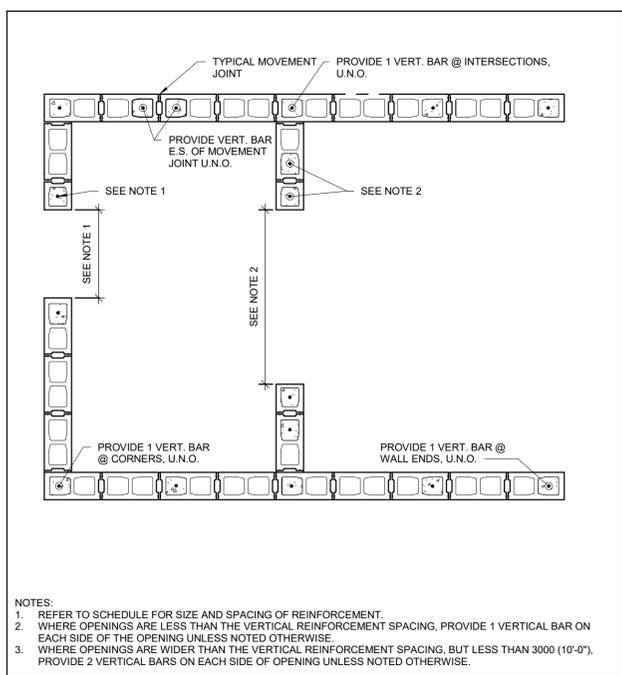
PARALLEL TO METAL DECK **M108a**



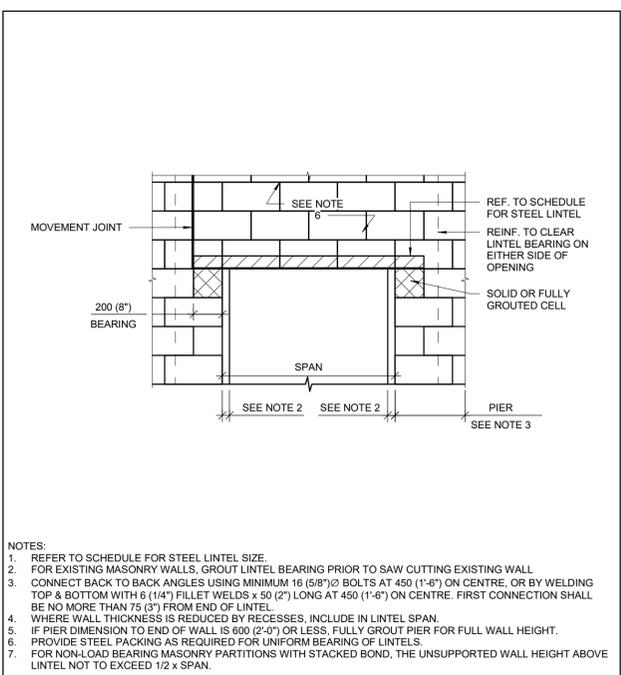
MASONRY PARTITION ON EXISTING SLAB **M109**



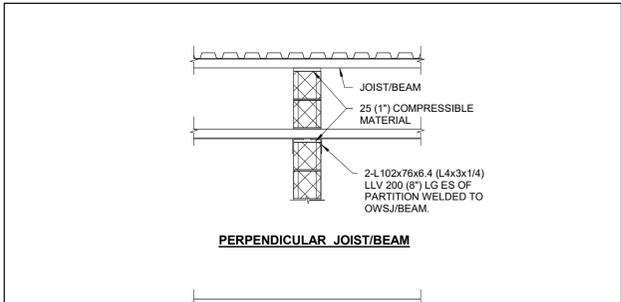
PERPENDICULAR TO METAL DECK **M108a**



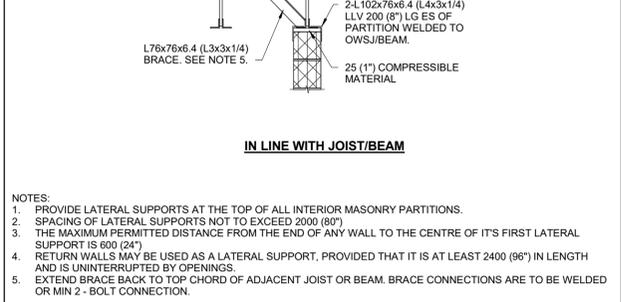
VERTICAL REINFORCEMENT IN MASONRY WALLS **M101**



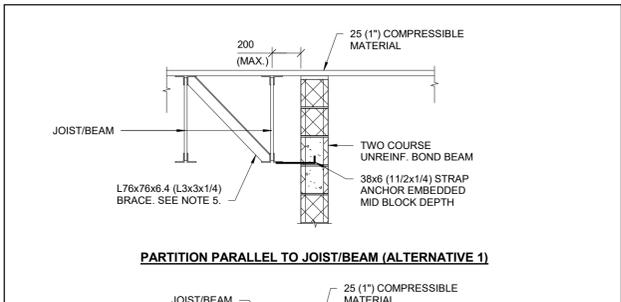
STEEL LINTELS FOR MASONRY WALLS **M105**



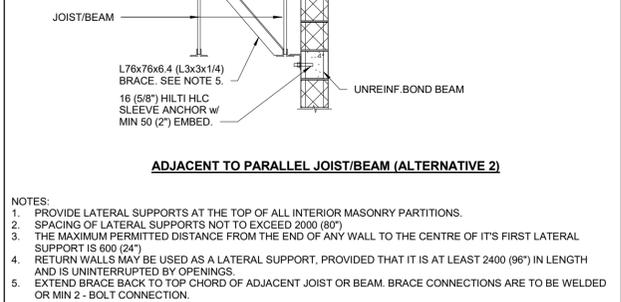
PERPENDICULAR JOIST/BEAM **M108c**



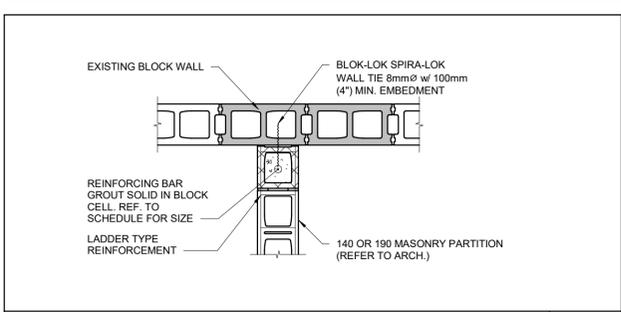
IN LINE WITH JOIST/BEAM **M108c**



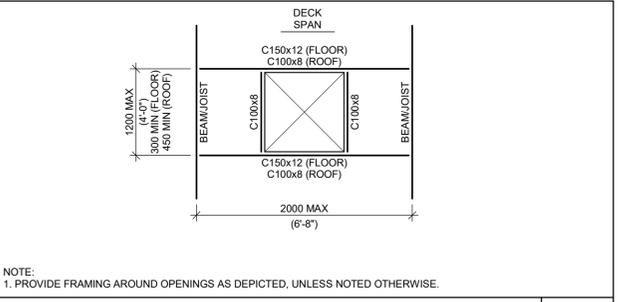
PARTITION PARALLEL TO JOIST/BEAM (ALTERNATIVE 1) **M108b**



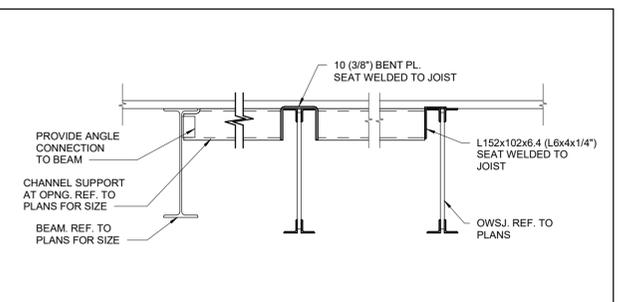
ADJACENT TO PARALLEL JOIST/BEAM (ALTERNATIVE 2) **M108b**



CONNECTION BETWEEN NEW AND EXISTING MASONRY **M114**



FRAMING AROUND OPENINGS IN FLOOR AND ROOF DECK **S102**



CHANNEL SUPPORT AT ROOF OPENING **S103**

No.	ISSUANCE	DATE
1	ISSUED FOR 90% OWNER REVIEW	2024-02-29
2	ISSUED FOR BID AND PERMIT	2024-03-11

CLIENT
WATERLOO REGION DISTRICT SCHOOL BOARD
51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT
LINCOLN HEIGHTS PS BARRIER FREE WASHROOM ADDITION
270 Quickfall Dr, Waterloo, ON N2J 3S9

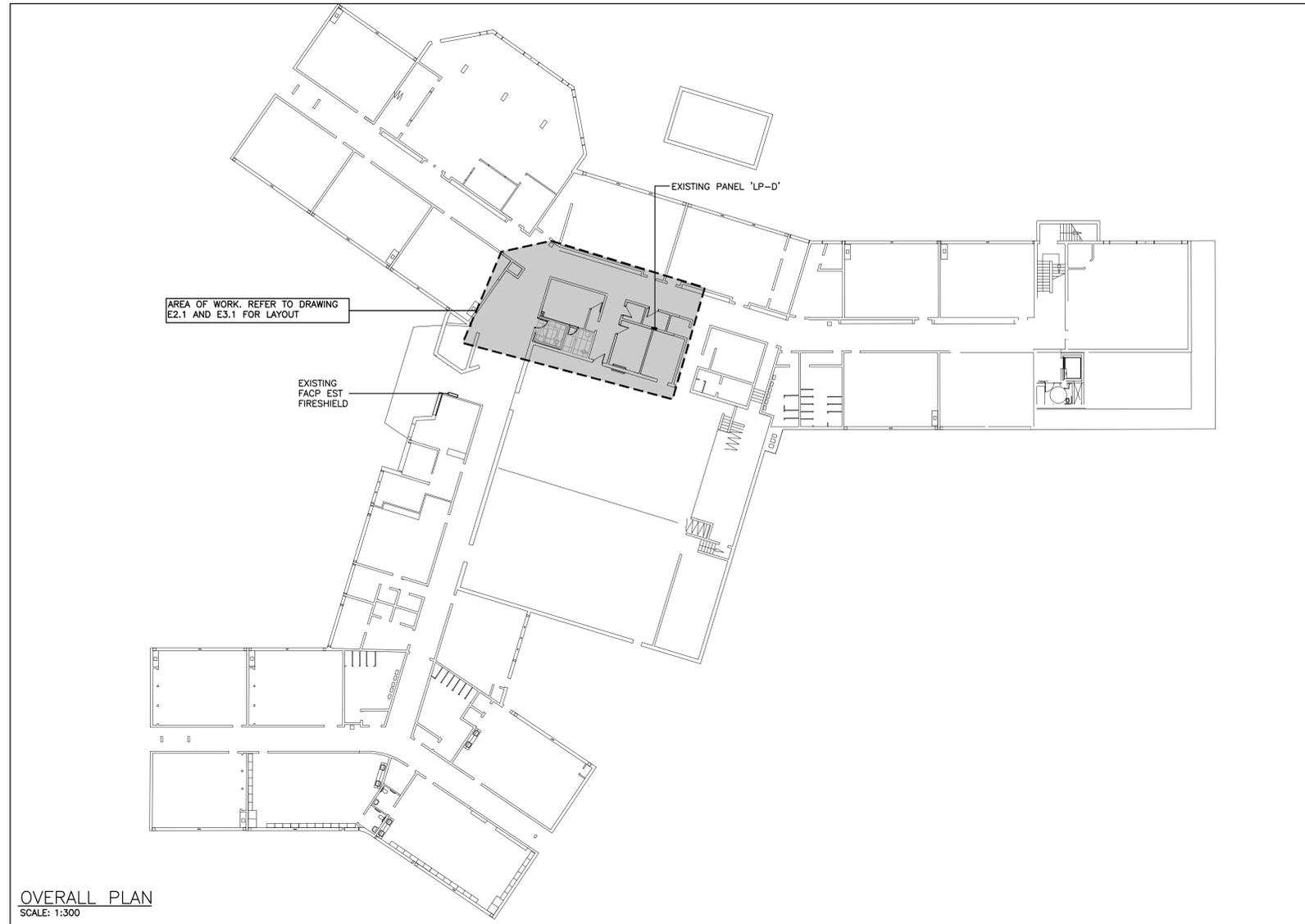
TITLE
STRUCTURAL TYPICAL DETAILS

WALTERFEDY
KITCHENER | HAMILTON | TORONTO | CALGARY
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SCALE:	1 : 25	SHEET NO:	S002
DATE:	24/02/2024		
PROJECT NO:	2022-0858-12		
DRAWN BY:	TA/DM		
CHECKED BY:	MV		



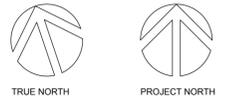
ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

LIGHTING		POWER	
	CEILING MOUNTED LIGHT FIXTURE TYPE AS INDICATED		WALL MOUNTED RECEPTACLE (15A-120V)
	LIGHT FIXTURE TYPE AS INDICATED		RECEPTACLE MTD. ABOVE COUNTER (15A-120V)
	SINGLE EMERGENCY LIGHTING FIXTURE AS INDICATED		DIRECT CONNECTION
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT TYPE AND DC-X INDICATES DC CIRCUIT)		PANEL AS INDICATED
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE AS INDICATED		HAND DRYER
	SINGLE POLE SWITCH AS NOTED		PUSH-BUTTON STATION AS NOTED
	OCCUPANCY SENSOR (PASSIVE) CAT. #WSXA WH		INTERVAL TIMER
FIRE ALARM		ACCESS CONTROL	
	FIRE ALARM CONTROL PANEL		ELECTRIC STRIKE, CONFIRM ROUGH-IN WITH DOOR HARDWARE.
	FIRE ALARM CONTROL PANEL		"PUSH-TO-LOCK" BUTTON
GENERAL		STANDARD CIRCUIT LABELING	
ER	INDICATED EXISTING ITEM TO REMAIN	 POWER PANEL LABEL CIRCUIT INDICATION SWITCH LEG (IF APPLICABLE)	
D	INDICATES EXISTING ITEM TO BE DELETED		
GF	GROUND FAULT		
	NOTE INDICATOR		
	MECHANICAL ITEM NO.		



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. © 2024 DEI Consulting Engineers Inc.



No.	ISSUANCE	DATE
1	ISSUED FOR BID AND PERMIT	2024-03-11

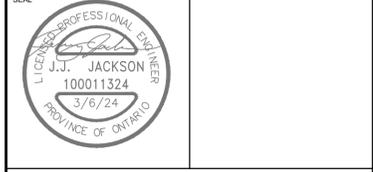
WATERLOO REGION DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

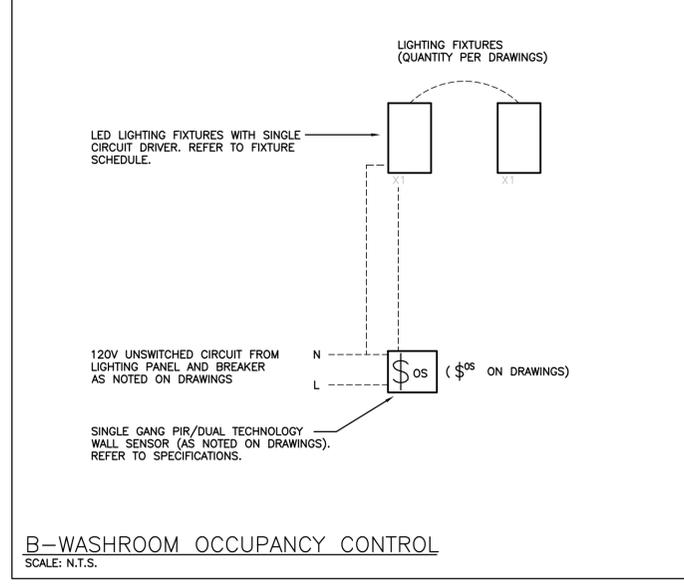
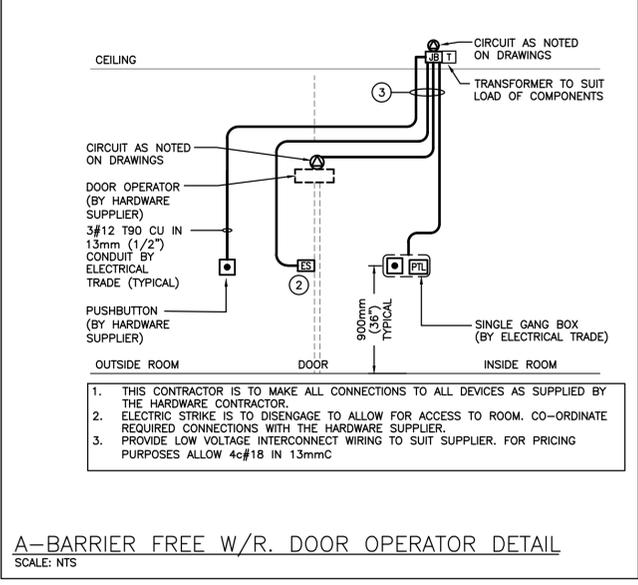
LINCOLN HEIGHTS PS - RENOVATION

270 Quickfall Dr, Waterloo, ON N2J 3S9

KEY PLAN, LEGEND, DETAILS & SCHEDULES



SCALE:	As Indicated	SHEET NO.:	E1.1
DATE:	12/06/23		
PROJECT NO.:	2022-0858-11		
DRAWN BY:	SB		
CHECKED BY:	RV		



EQUIPMENT WIRING SCHEDULE

Electrical Item	Description	Provided by	Data										Interlock To	Interlock By	Remarks				
			Voltage	Size	Phase	Magnetic	Manual	Combination	Variable Frequency Drive	Hand/Off/Auto	On/Off Selector	Start/Stop PB				High/Low/Off	Pilot Light	Isolating Device	Remote Items
EF-1	EXHAUST FAN	M	120	FHP	1														LOCAL EXHAUST

LIGHT FIXTURE SCHEDULE

Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	Description
A	COOPER CAT. #24COTS-NJV LITHONIA CAT. #CPX 2X4 AL08 SWW7 M2	120V	LED 4000 LUMENS 4000K 24.9W	RECESSED	80	N/A	2'x4' (610mmx1220mm) LED BACKLIT FLAT PANEL FIXTURE C/W FIELD SELECTABLE LUMENS AND COLOUR TEMPERATURE, WHITE FROSTED LENS, 10% 0-10V DIMMING DRIVER, AND WHITE FINISH. LIGHT FIXTURE SETTING IS TO BE SET AT "4000K" AND AT "LOW"
B	COOPER CAT. #14COTS-NJV LITHONIA CAT. #CPX 1X4 AL07 SWW7 M2	120V	LED 3412 LUMENS 4000K 21.4W	RECESSED	80	N/A	1'x4' (305mmx1220mm) LED BACKLIT FLAT PANEL FIXTURE C/W FIELD SELECTABLE LUMENS AND COLOUR TEMPERATURE, WHITE FROSTED LENS, 10% 0-10V DIMMING DRIVER, AND WHITE FINISH. LIGHT FIXTURE SETTING IS TO BE SET AT "4000K" AND AT "LOW"
C	COOPER CAT. #4SNLED-LD5-S0SL-LW-UM-L840-CD-1-WG/SNF-4FT LITHONIA CAT. #CLX L48 5000LM SEF RDL WD MWLT GZ10 40K 80CR-WH/WGLX48	120V	LED 5251 LUMENS 4000K 55W	SURFACE	80	N/A	4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD.
EMERG. LIGHTS (SELF POWERED)	AIMLITE CAT. #VP1 SERIES LUMACELL CAT. #LBL SERIES STANDPRO CAT. #SWL SERIES	12V/120V	17W	WALL/CEILING	N/A	N/A	VANDAL RESISTANT LONG LIFE, BATTERY, C/W 17W LED MODULES, POLYCARBONATE BODY AND 90 MINUTE BATTERY DURATION.

NOTES: ① LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT. ② EQUAL MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.

ELECTRICAL SPECIFICATION

GENERAL NOTES

- 1 PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT.
2 OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS. OBTAIN NECESSARY APPROVALS, CERTIFICATES AND INSPECTIONS. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT.
3 COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
4 VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT.
5 CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRING TO INSTALL THE SERVICE.
6 THE DRAWINGS ARE DIAGRAMMATIC, THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
7 SUBMIT COPIES OF SHOP DRAWINGS AS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY.
8 PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN CONDUITS, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
9 MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR REQUIREMENTS.
10 PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
11 INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
12 WARRANTY ALL LABOUR, MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF SYSTEM.
13 COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH APPARATUS OF ALL OTHER TRADES.
14 PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
15 MOUNTING HEIGHTS SHALL BE AS FOLLOWS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE/EQUIPMENT (UNLESS OTHERWISE NOTED):
- SWITCHES, DIMMERS AND SPEED CONTROLLERS: 1100mm (44")
- WALL RECEPTACLES:
- GENERAL: 400mm (16")
- ABOVE TOP OF COUNTERS: 100mm (4")
- IN MECHANICAL/ELECTRICAL ROOMS: 1100mm (44") (GANG WITH SWITCH).
- PANEL BOARDS: 1400mm (4'-8") OR AS REQUIRED BY CODE.
- TELEPHONE OUTLETS: 400mm (16")
- VOICE/DATA OUTLETS: 400mm (16")
- FIRE ALARM STATIONS: 1200mm (48")
- FIRE ALARM SIGNAL DEVICES: 2250mm (7'-6")
- FIRE ALARM STROBES: 2250mm (7'-6")
- THERMOSTAT: 1200mm (44")
- SECURITY SYSTEM MOTION DETECTORS: 300mm (12") BELOW FINISHED CEILING OR CEILING MOUNTED AS DIRECTED BY MANUFACTURER.
- SECURITY SYSTEM KEY SWITCHES: 1100mm (44")
16 ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS OTHERWISE NOTED.
17 ALL EXISTING ELECTRICAL DEVICES, OUTLET BOXES, ETC., NOT SHOWN ON DRAWINGS OR MENTIONED IN THE FOLLOWING NOTES AND INSTALLED IN WALLS SLATED FOR DEMOLITION, SHALL BE DISCONNECTED AND REMOVED COMPLETELY IN ALL RESPECTS.
18 SUBMIT ONE COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A THREE RING BINDER LABELED FOR THE PROJECT COMPLETE WITH ITEMIZED SECTIONS CONTAINING PROJECT DATA, SHOP DRAWINGS, ETC. UPON ACCEPTANCE OF THE OPERATION AND MAINTENANCE MANUAL BY THE CONSULTANT PROVIDE TWO ADDITIONAL COPIES BOUND IN SEPARATE THREE RING BINDERS. A PDF FILE OF THE ENTIRE MANUAL IS TO BE PROVIDED ON A USB STICK. ONLY ONE USB STICK IS TO BE PROVIDED CONTAINING BOTH THE APPROVED MANUALS AND RECORD DRAWINGS.
19 CONTRACTOR SHALL PROVIDE 2 SETS OF REPRODUCIBLE ELECTRICAL DRAWINGS. MARK THEREON ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR. THIS SHALL INCLUDE FIELD AND CONTRACT CHANGES TO ELECTRICAL SYSTEMS. IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 3mm (1/8") HIGH AS FOLLOWS: - "RECORD DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. (SIGNATURE OF CONTRACTOR)(DATE)". SUBMIT HARD COPY TO CONSULTANT FOR APPROVAL. WHEN RETURNED, MAKE CORRECTIONS (IF ANY) AS DIRECTED. ONCE APPROVED, SUBMIT COMPLETED REPRODUCIBLE PAPER RECORD DRAWINGS AS WELL AS A SCANNED PDF COPY FILE ON USB STICK WITH OPERATING AND MAINTENANCE MANUALS.
20 CONTRACTOR SHALL PROVIDE RED LINE RECORD DRAWINGS OF EACH AND EVERY ELECTRICAL DRAWING FOR DEI CONSULTING ENGINEERS TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
21 THE CONTRACTOR IS TO DETERMINE GENERAL INSPECTION FEES WITH THE ELECTRICAL SAFETY AUTHORITY AND INCLUDE AS PART OF TENDER.
22 A SUBMISSION HAS BEEN MADE (IF REQUIRED BY THIS SCOPE OF PROJECT) BY THE CONSULTANT TO THE ELECTRICAL SAFETY AUTHORITY FOR REVIEW OF THIS PROJECT. THE PAYMENT OF THE REQUIRED REVIEW COSTS WILL BE COORDINATED BY THE CONSULTANT. A COPY OF THE ELECTRICAL SAFETY AUTHORITY REVIEW REPORT WILL BE FORWARDED TO THE SUCCESSFUL CONTRACTOR FOR INFORMATION AND ACTION.

BASIC MATERIALS

- 1 JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
2 CONDUIT MUST BE CONCEALED UNLESS INSTALLED IN SERVICE OR STORAGE ROOMS.
3 CONDUIT MUST BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER.
4 ALL FEEDER AND BRANCH CIRCUIT WIRING MUST BE COPPER, T90 RATING/STYLE RUN IN EMT CONDUIT WITH INTERNAL INSULATED GREEN GROUND WIRE UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AND MINIMUM CONDUIT SIZE SHALL BE 3/4" (19mm).
5 AC90 CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN STEEL STUD WALLS AND "DROPS" IN T-BAR CEILING AREAS TO LIGHT FIXTURES AND FIRE ALARM DEVICES. LENGTH OF DROP MUST BE LIMITED TO 8'-0" (2400mm).
6 WHERE DEVICES ARE TO BE INSTALLED ON EXISTING WALLS IN FINISHED AREA, WHICH CANNOT BE FISHED, INSTALL FEEDS IN A SURFACE METAL RACEWAY EQUAL TO WIREMOLD V700 SERIES.
7 COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES.
8 CODE WITH PLASTIC TAPE OR PAINT AT POINTS WHERE CONDUIT OR CABLE ENTERS WALL, CEILING, OR FLOOR, AND AT 15m(45') INTERVALS.
9 COLOUR BANDS MUST BE 25mm(1") WIDE AND CODED AS FOLLOWS FOR NOTED SYSTEMS. (WRITER TO EDIT)
SYSTEM COLOUR
UP TO 208V YELLOW
209 TO 600V WHITE
VOICE SYSTEM GREEN
DATA SYSTEM ORANGE
SECURITY BROWN
PUBLIC ADDRESS BLACK
CABLE TV BLUE
FIRE ALARM RED
EMERGENCY VOICE RED
EMERGENCY LIGHTING PINK
EMERGENCY UP TO 208V YELLOW/RED/YELLOW (STRIPED)
EMERGENCY 209V TO 600V WHITE/RED/WHITE (STRIPED)
10 THIS CONTRACTOR MUST PAINT ALL SYSTEM JUNCTION BOXES AND COVERS IN CONFORMANCE WITH THE ABOVE SCHEDULE.

DRAW BREAKDOWN

- 1 THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO CLASSIFICATIONS TO THE SATISFACTION OF THE CONSULTANT, WITH THE AGGREGATE OF THE BREAKDOWN TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM MUST BE BROKEN OUT INTO MATERIAL AND LABOUR COSTS. PROGRESS CLAIMS, WHEN SUBMITTED ARE TO BE ITEMIZED AGAINST EACH ITEM OF THE DRAW BREAKDOWN. THIS SHALL BE DONE IN TABLE FORM SHOWING CONTRACT AMOUNT, AMOUNT THIS DRAW, TOTAL TO DATE, % COMPLETE AND BALANCE.
2 BREAKDOWN SHALL BE AS FOLLOWS (WRITER TO EDIT):
.1 PERMITS AND FEES
.2 MOBILIZATION (MAXIMUM 1%)
.3 DEMOLITION
.4 PANELBOARDS AND MISCELLANEOUS DISTRIBUTION EQUIPMENT
.5 BRANCH WIRING
.6 LIGHTING FIXTURES
.7 COMMISSIONING (MINIMUM 3%)
3 THE BREAKDOWN MUST BE APPROVED BY THE CONSULTANT PRIOR TO SUBMISSION OF THE FIRST DRAW.
4 BREAKDOWNS NOT COMPLYING TO THE ABOVE WILL NOT BE APPROVED.
5 BREAKDOWN MUST INDICATE TOTAL CONTRACT AMOUNT.
6 MOBILIZATION AMOUNT MAY ONLY BE DRAWN WHEN ALL REQUIRED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT.
SHOP DRAWINGS AND PRODUCT DATA
1 FURNISH COMPLETE CATALOG DATA FOR MANUFACTURED ITEMS OF EQUIPMENT TO BE USED IN THE WORK TO CONSULTANT FOR REVIEW WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
2 IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT.
3 ADDITIONAL SHOP DRAWINGS REQUIRED BY THE CONTRACTOR FOR MAINTENANCE MANUALS, SITE COPIES ETC., SHALL BE PHOTOCOPIES OF THE "REVIEWED" SHOP DRAWINGS. ALL COSTS TO PROVIDE ADDITIONAL COPIES OF SHOP DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
4 PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
5 CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER SHALL NOT SUPERSEDE CONTRACT DOCUMENTS.
6 REVIEW COMMENTS OF CONSULTANT SHALL NOT RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS UNLESS CONSULTANT'S ATTENTION HAS BEEN CALLED TO SUCH DEVIATIONS IN WRITING AT TIME OF SUBMISSION, NOR SHALL THEY RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR ERRORS IN ITEMS SUBMITTED.
7 CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS.
8 SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
.1 MOUNTING ARRANGEMENTS.
.2 OPERATING AND MAINTENANCE CLEARANCES. E.G. ACCESS DOOR SWING SPACES.
9 SHOP DRAWINGS AND PRODUCT DATA SHALL BE ACCOMPANIED BY:
.1 DETAILED DRAWINGS OF BASES, SUPPORTS, AND ANCHOR BOLTS.
.2 MANUFACTURER TEST DATA WHERE REQUESTED.
.3 MANUFACTURER TO CERTIFY AS TO CURRENT MODEL PRODUCTION.
.4 CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.
10 STATE SIZES, CAPACITIES, BRAND NAMES, MOTOR HP, ACCESSORIES, MATERIALS, GAUGES, DIMENSIONS, AND OTHER PERTINENT INFORMATION. LIST ON CATALOG COVERS' PAGE NUMBERS OF SUBMITTED ITEMS. UNDERLINE APPLICABLE DATA.
11 ONCE THESE SHOP DRAWINGS ARE RETURNED "REVIEWED" OR "REVIEWED AS NOTED" FABRICATION, PRODUCTION, AND INSTALLATION MAY COMMENCE. NOTE: IF A SHOP DRAWING IS RETURNED "REVIEWED AS NOTED" THIS CONTRACTOR MUST PROVIDE WRITTEN INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.
12 A PARTIAL LIST OF SHOP DRAWINGS INCLUDES (WRITER TO EDIT):
.1 LUMINAIRES
.2 EMERGENCY BATTERY UNITS AND FIXTURES
.3 HAND DRYERS
.4 OCCUPANCY SENSORS

WIRING DEVICES

- 1 GENERAL PURPOSE AC SWITCHES MUST CONFORM TO CSA C22.2 NO. 111 (LATEST EDITION).
2 15 OR 20 A, 120 V, SINGLE POLE, DOUBLE POLE, THREE-WAY, OR FOUR-WAY SWITCHES.
3 RECEPTACLES, PLUGS, AND OTHER SIMILAR WIRING DEVICES MUST CONFORM TO CSA C22.2 NO. 42 (LATEST EDITION).
4 DUPLEX RECEPTACLES, CSA TYPE 5-15 R, 125 V, 15 A, U GROUND, WITH THE FOLLOWING FEATURES:
.1 UREA MOLDED HOUSING WITH COLOUR AS SELECTED BY ARCHITECT.
.2 SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING.
.3 BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES.
.4 EIGHT BACK WIRED ENTRANCES, FOUR SIDE WIRING SCREWS.
.5 TRIPLE WIRE CONTACTS AND RIVETED GROUNDING CONTACTS.
5 ACCEPTABLE MATERIALS:
.1 STANDARD DUPLEX RECEPTACLE: HUBBELL CAT. #HBL5252CN
.2 DECORA STYLE DUPLEX RECEPTACLE: HUBBELL CAT. #HBL2152 COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.
.3 GROUND FAULT PROTECTED T-SLOT RECEPTACLES: HUBBELL CAT. #GF20X COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.
.4 TAMPER RESISTANT RECEPTACLE: HUBBELL CAT. #BR15TR
.5 TAMPER RESISTANT T-SLOT RECEPTACLE: HUBBELL CAT. #BR20TR
.6 TAMPER RESISTANT GROUND FAULT PROTECTED RECEPTACLE: HUBBELL CAT. #GFTR15
.7 AMPER RESISTANT GROUND FAULT PROTECTED T-SLOT RECEPTACLE: HUBBELL CAT. #GFTR20
.8 DECORA STYLE TAMPER RESISTANT RECEPTACLE: HUBBELL CAT. #DR15TR COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.
.9 DECORAA STYLE TAMPER RESISTANT T-SLOT RECEPTACLE: HUBBELL CAT. #DR20TR COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.
11 ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE:
PASS & SEYMOUR LEVITON
12 WALL MOUNTED OCCUPANCY SENSORS LINE VOLTAGE (PASSIVE/DUAL TECHNOLOGY), AS INDICATED ON DRAWING:
.2 WATTSTOPPER CAT. #DSW-301-XX (COLOUR BY ARCHITECT)
.3 GREENGATE CAT. #ONW-D-1001-DMV-XX (COLOUR BY ARCHITECT)
.4 SENSOR SWITCH CAT. #WSXA PDT XX (COLOUR BY ARCHITECT)
13 ALL SENSORS SHALL BE SET TO 20 MINUTES "DELAY TO OFF" UNLESS OTHERWISE DIRECTED.
14 INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.
15 SHEET STEEL UTILITY BOX COVER FOR WIRING DEVICES INSTALLED IN SURFACE MOUNTED UTILITY BOXES.
16 STAINLESS STEEL, VERTICALLY BRUSHED, 1mm THICK OR THERMOPLASTIC CONSTRUCTION, COLOUR TO MATCH WIRING DEVICES, THICKNESS 2.5mm, COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOXES.
17 SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
18 WEATHERPROOF "HEAVY DUTY IN USE" COVER PLATES, COMPLETE WITH GASKETS FOR DUPLEX RECEPTACLES AS INDICATED.
19 PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED.
20 INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.

LIGHTING SYSTEMS

- FIXTURES ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE C/W THE FOLLOWING FEATURES:
1 LED
.1 FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD.
.2 LED'S MUST BE SELECTED USING A BINNING ALGORITHM TO ENSURE COLOUR AND LUMEN OUTPUT OF A GIVEN FIXTURE ARE CONSISTENT, AS WELL AS MEET OR SURPASS ANSI C78.377 SPECIFICATION FOR THE RATED LIFETIME OF THE FIXTURE. COLOUR ACCURACY BETWEEN PRODUCTS MUST BE WITHIN A 2-STEP MACADAM ELLIPSE.
.3 LUMINAIRES MUST BE TESTED TO IESNA LM79 BY AN INDEPENDENT APPROVED LABORATORY.
.4 LUMINAIRES MUST BE TESTED PRIOR TO SHIPPING.
.5 LUMINAIRES MUST BE UL/C CERTIFIED AND APPROVED FOR USE IN CANADA.
.6 FIXTURES MUST MAINTAIN A MINIMUM OF 90% OF THEIR INITIAL LIGHT OUTPUT FOR 60,000 HOURS. SUBMIT TEST RESULTS UPON REQUEST.
.7 LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR 'DELIVERED' VALUES.
.8 OTHER THAN FOR SPECIALTY FIXTURES, AND UNLESS OTHERWISE INDICATED, THE MAXIMUM DRIVER CURRENT IS TO BE 750 MA.
3 EMERGENCY LIGHTING UNITS
.1 MUST CONFORM TO CSA C22.2 NO. 141 (LATEST EDITION).
.2 SUPPLY VOLTAGE: 120 VOLT, AC.
.3 OUTPUT VOLTAGE: 12 VOLT, DC.
.4 BATTERY: SEALED UNITS MUST BE CAPABLE OF SUPPLYING THE WATTAGE INDICATED FOR A MINIMUM OF 90 MINUTES.
.5 SIGNAL LIGHTS: "AC POWER ON" CONDITION AND "CHARGING" CONDITION.
.6 LAMP HEADS: INTEGRAL ON UNIT, 345° HORIZONTAL AND 180° VERTICAL ADJUSTMENT. LAMP TYPE: MINIMUM 4W LED.
7 AUXILIARY EQUIPMENT:
.1 TEST SWITCH
.2 AC INPUT AND DC OUTPUT TERMINAL BLOCKS INSIDE CABINET.
.3 SHELF
.4 CORD AND PLUG CONNECTION FOR AC.
4 FIXTURE INSTALLATION
.1 LOCATE AND INSTALL LUMINAIRES AS INDICATED.
.2 FIXTURE SURFACE MOUNTED TO SUSPENDED CEILINGS MUST BE SECURED THROUGH CEILING ASSEMBLY TO CROSS MEMBER SUPPORTS. THESE SUPPORTS ARE TO BE STEEL CHANNELS OR ANGLES INDEPENDENTLY SECURED TO STRUCTURE USING #12 "JACK" CHAIN. EACH CHAIN MUST BE SECURED SO NO FIXTURE WEIGHT IS ADDED TO THE CEILING ASSEMBLY.
.3 PLASTER FRAMES/FLANGE KITS MUST BE PROVIDED BY THIS DIVISION FOR FIXTURES RECESSED IN PLASTER AND/OR DRYWALL CEILINGS.
.4 WHERE SPECIFIED, FIXTURES TO BE HUNG SHALL BE HUNG USING "JACK" CHAIN WITH A CAPACITY TO SUIT THE FIXTURE WEIGHT. BRANCH CIRCUIT WIRING FEEDING THESE FIXTURES SHALL BE AC90 CABLE "TY-WRAPPED" AT 36" (900mm) INTERVALS ALONG LENGTH OF DROP. FINAL APPEARANCE MUST BE NEAT AND PROFESSIONAL.
5 INSTALL EXIT LIGHTING UNITS AS INDICATED WITH ILLUMINATED FACES AND CHEVRONS/ARROWS INDICATING PATH(S) OF EXIT.
6 INSTALL EMERGENCY LIGHTING UNITS AND ASSOCIATED REMOTE MOUNTED FIXTURES AS INDICATED.
7 DIRECT "HEADS" ON UNITS AND REMOTE MOUNTED FIXTURES TO ILLUMINATE PATH(S) OF EXIT.
8 INSTALL EMERGENCY LIGHTING UNITS AND REMOTE FIXTURES AT 8' (2400mm) ABOVE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
9 PROVIDE A 15A 120V DUPLEX RECEPTACLE (CONNECT TO CIRCUIT INDICATED) ADJACENT TO UNIT.
10 CONNECT LUMINAIRES TO LIGHTING CIRCUITS AS INDICATED.
11 CONNECT EXIT FIXTURES TO EXIT LIGHTING CIRCUITS AND UNIT EQUIPMENT (IF APPLICABLE).
12 CONNECT UNIT EQUIPMENT TO CIRCUITS AS INDICATED.
13 ALL WIRING OF REMOTE EMERGENCY FIXTURES SHALL BE MINIMUM #10 T90 FOR EACH CIRCUIT AND RUN IN CONDUIT. WIRING MUST BE SIZED IN CONFORMANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR DISTANCE REQUIRED.
14 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES.
15 ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES.
16 ALL LIGHTING BRANCH CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS.
5 GUARANTEE
.1 ALL LED FIXTURES AND DRIVERS ARE TO BE COMPLETE WITH A 5 YEAR GUARANTEE.
.2 THE LABOUR REQUIRED TO REPLACE THESE DRIVERS MUST BE INCLUDED IN THE ABOVE GUARANTEE
6 TESTING/CERTIFICATION
.1 AT THE COMPLETION OF THE PROJECT AND IN THE PRESENCE OF THE CONSULTANT, TEST ALL EXIT AND EMERGENCY FIXTURES. ON COMPANY LETTERHEAD, THE CONTRACTOR IS TO PREPARE A CHART INDICATING:
- PROJECT
- DATE
- EQUIPMENT TYPE
- CERTIFICATION OF CORRECT CONNECTION
- CERTIFICATION OF CORRECT OPERATION
- DURATION OF TEST IN MINUTES (MINIMUM 30)
- ACTUAL PERIOD OF TESTING (TIME OF DAY)
.7 THIRD PARTY FUNCTIONAL TESTING
.1 AT THE COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMMISSIONED BY A MANUFACTURER'S FACTORY AUTHORIZED THIRD PARTY REPRESENTATIVE WHO SHALL PROVIDE FUNCTIONAL TESTING AND DOCUMENTATION CONFORMING TO THE REQUIREMENTS OF ASHRAE 9.4.4. FUNCTIONAL THIRD PARTY TESTING SHALL INCLUDE LINE VOLTAGE OCCUPANCY SENSORS AND DIGITAL ROOM CONTROL SYSTEMS. ALL COSTS SHALL BE INCLUDED IN THE CONTRACT.

ASBESTOS

- 1 IF ASBESTOS IS SUSPECTED OR IDENTIFIED CEASE ALL WORK IN THE IMMEDIATE AREA IN ACCORDANCE WITH OHSA AND NOTIFY CONSULTANT.
2 EACH CONTRACTOR AND ON SITE EMPLOYEE OF THE CONTRACTOR SHALL HAVE "ASBESTOS AWARENESS TRAINING".
3 THE CONTRACTOR SHALL ENSURE THAT EMPLOYEES WHO MAY COME INTO CONTACT WITH ASBESTOS DUE TO THE NATURE OF THE WORK THAT THEY PERFORM, HAVE RECEIVED TRAINING THAT ENABLES THEM TO RECOGNIZE ASBESTOS AND THAT ENABLES THEM TO REACT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS THERETO SHOULD CONTACT WITH ASBESTOS OCCUR DURING THE COURSE OF THEIR WORK.
4 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ASBESTOS BOOK IN THE BUILDING PRIOR TO STARTING ANY WORK.
5 EXISTING OCCUPIED BUILDINGS (DEPENDING UPON THEIR AGE) MAY CONTAIN ASBESTOS IN THERMAL INSULATING MATERIALS AND SOME MANUFACTURED PRODUCTS, SUCH AS VINYL ASBESTOS FLOOR TILE, ANY INSULATING MATERIALS, ON PIPES, FITTINGS, BOILERS, TANKS, DUCTWORK, ETC. MAY CONTAIN ASBESTOS AND SHALL NOT BE DISTURBED.
6 A SURVEY OF THE BUILDING DOCUMENTING THE LOCATION AND CONDITION OF ASBESTOS-CONTAINING MATERIALS IS AVAILABLE FOR YOUR MANDATORY REVIEW PRIOR TO COMMENCING ANY WORK ON PREMISES.

CLIENT LOGO



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2024 DEI Consulting Engineers Inc.



Table with 3 columns: No., ISSUANCE, DATE. Row 1: 1 ISSUED FOR BID AND PERMIT 2024-03-11

CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD 51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT LINCOLN HEIGHTS PS - RENOVATION 270 Quickfall Dr, Waterloo, ON N2J 3S9

TITLE ELECTRICAL SPECIFICATIONS

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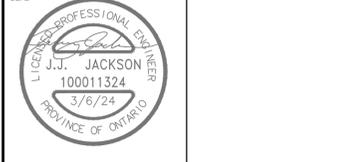


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