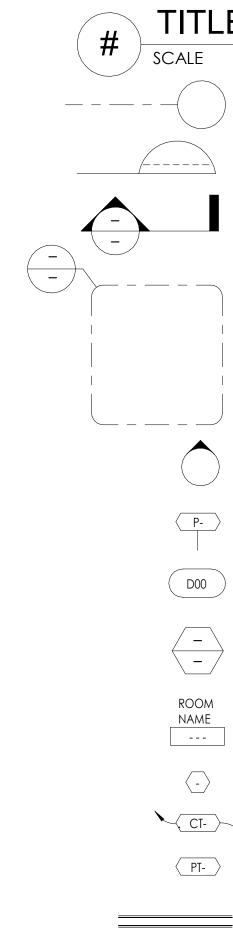
ABBREVIATIONS

&	AND	JAN.	JANITOR
	ANGLE	JT.	JOINT
 © ~	AT CENTERLINE DIAMETER OR ROUND	KIT.	KITCHEN
~ # (E)	POUND OR NUMBER EXISTING	LAB. LAM.	LABORATORY LAMINATE
ACOUS A.D.	ACOUSTICAL AREA DRAIN	LAV. LKR. LT.	LAVATORY LOCKER LIGHT
ADJ. AGGR.	ADJUSTABLE AGGREGATE	MAX.	MAXIMUM
AL.	ALUMINUM	M.C.	MEDICINE
APPROX.	APPROXIMATE	MECH.	MECHANICAL
ARCH.	ARCHITECTURAL	MEMB.	MEMBRANE
ASB. ASPH.	ASBESTOS ASPHALT	MET. MFR. MH.	METAL MANUFACTURER MANHOLE
BD.	BOARD	MIN.	MINIMUM
BITUM.	BITUMINOUS	MIR.	MIRROR
BLDG.	BUILDING	MISC.	MISCELLANEOUS
BLK.	BLOCK	M.O.	MASONRY OPENING
BLKG.	BLOCKING	MTD.	MOUNTED
BM. B.O.P.	BEAM BOTTOM OF PANEL	MUL.	MULLION
B.O.R. BOT.	BOTTOM OF REVEAL BOTTOM	N. N.I.C. NO. OR #	NORTH NOT IN CONTRACT NUMBER
CAB.	CABINET	NOM.	NOMINAL
C.B.	CATCH BASIN	N.T.S.	NOT TO SCALE
CEM. CER. C.I.	CEMENT CERAMIC CAST IRON	O.A. OBS.	OVERALL OBSCURE
C.G.	CORNER GUARD	O.C.	ON CENTER
CLG.	CEILING	O.D.	OUTSIDE DIAMETER (DIM.)
CLKG.	CAULKING	OFF.	OFFICE
CLO.	CLOSET	OPNG.	OPENING
CLR.	CLEAR	OPP.	OPPOSITE
C.O. COL. C.O.M.	CASED OPENING COLUMN CENTER OF MULLION	PRCST. PL.	PRE-CAST PLATE
CONC.	CONCRETE	P.LAM.	PLASTIC LAMINATE
CONN.	CONNECTION	PLAS.	PLASTER
CONSTR.	CONSTRUCTION	PLYWD.	PLYWOOD
CONT.	CONTINUOUS	PNL	PANEL
C.O.R.	CENTRE OF RADIUS	PT	PAINT
CORR.	CORRIDOR	PR.	PAIR
CTSK.	COUNTERSUNK	P.T.D.	PAPER TOWEL DISPENSER
CNTR.	COUNTER	P.T.D/R	COMBINATION PAPER TOWEL
CTR.	CENTRE	PTN. P.T.R.	PARTITION PAPER TOWEL RECEPTACLE
DBL. DEPT. D.F.	DOUBLE DEPARTMENT DRINKING FOUNTAIN	Q.T.	QUARRY TILE
DET.	DETAIL	R.	RISER
DIA.	DIAMETER	RAD.	RADIUS
DIM.	DIMENSION	R.D.	ROOF DRAIN
DISP.	DISPENSER	REF.	REFERENCE
DN.	DOWN	REFR.	REFRIGERATOR
D.O.	DOOR OPENING	rgtr.	REGISTER
DR.	DOOR	Reinf.	REINFORCED
DWR.	DRAWER	Req.	REQUIRED
DS.	DOWNSPOUT	RESIL.	RESILIENT
D.S.P.	DRY STANDPIPE	RM.	ROOM
DWG	DRAWING	R.O.	ROUGH OPENING
E.	EAST	RWD. R.W.L.	REDWOOD RAIN WATER LEADER
EA. E.J. EL.	EACH EXPANSION JOINT ELEVATION	S. S.C.	SOUTH SOLID CORE
ELEC.	ELECTRICAL	S.C.D.	SEAT COVER DISPENSER
ELEV.	ELEVATOR	SCHED.	SCHEDULE
EMER.	EMERGENCY	S.D.	SOAP DISPENSER
ENCL.	ENCLOSURE	SECT.	SECTION
E.P.	ELECTRICAL PANELBOARD	SH.	SHELF
EQ.	EQUAL	SHR.	SHOWER
EQPT.	EQUIPMENT	SHT.	SHEET
E.W.C.	ELECTRIC WATER COOLER	SIM.	SIMILAR
EXST.	EXISTING	S.N.D.	SANITARY NAPKIN DISPENSER
EXPO.	EXPOSED	S.N.R.	SANITARY NAPKIN RECEPTACLE
EXP.	EXPANSION	SPEC.	SPECIFICATION
EXP.	EXTERIOR	SQ.	SQUARE
EXT.		S.ST.	STAINLESS STEEL
F.A.	FIRE ALARM	S.SK.	SERVICE SINK
F.B.	FLAT BAR	STA.	STATION
F.D.	FLOOR DRAIN	STD.	STANDARD
FDN.	FOUNDATION	STL.	STEEL
F.E.	FIRE EXTINGUISHER	STOR.	STORAGE
F.E.C.	FIRE EXTINGUISHER CAB	STRL.	STRUCTURAL
F.H.C.	FIRE HOSE CABINET	SUSP.	SUSPENDED
FIN.	FINISH	SYS.	SYMMETRICAL
FL. FLASH. FLUOR.	FLOOR FLASHING FLUORESCENT	TRD. T.B.	TREAD TOWEL BAR
F.O.C.	FACE OF CONCRETE	T.C.	TOP OF CURB
F.O.F.	FACE OF FINISH	TEL.	TELEPHONE
F.O.S.	FACE OF STUD	TER.	TERRAZZO
FPRF.	FIREPROOF	T. & G.	TONGUE AND GROOVE
F.S.	FULL SIZE	TGL	TEMPERED GLASS
FT.	FOOT OR FEET	THK.	THICK
FTG.	FOOTING	T.O.P.	TOP OF PANEL
FURR.	FURRING	T.O.R.	TOP OF REVEAL
FUT.	FUTURE	T.P. T.P.D.	TOP OF PAVEMENT TOILET PAPER DISPENSER
GA.	GAUGE	T.V.	TELEVISION
GALV.	GALVANIZED	T.W.	TOP OF WALL
G.B.	GRAB BAR	TYP.	TYPICAL
GL. GND.	GLASS GROUND	UNF.	UNFINISHED
GR.	GRADE	U.O.N.	UNLESS OTHERWISE NOTED
GYP.	GYPSUM	UR.	URINAL
H.B.	HOSE BIBB	VERT.	VERTICAL
H.C.	HOLLOW CORE	VEST.	VESTIBULE
HDWD.	HARDWOOD	V.I.F	VERIFY IN FIELD
HDWE. H.M. HORIZ.	HARDWARE HOLLOW METAL HORIZONTAL	W. W/	WEST WITH
HR.	HOUR	W.C.	WATER CLOSET
HGT.	HEIGHT	WD.	WOOD
I.D. INSUL.	INSIDE DIAMETER (DIM.) INSULATION	W/O WP WSCT.	WITHOUT WATERPROOF WAINSCOT
INT.	INTERIOR	WT.	WEIGHT

BUILDING CODE ANALYSIS

tem		On	tario Bu	ilding (Code Data I	Matrix Parts	s 3 & 9			OBC Referen	се	
1	Project	Descriptio	on:		~	New	Par	t 11	Part 3		Part 9	
	WASHR	OOMS				Addition					2.1.1	
	BUILDIN	NG		Change	of Use 🗌	Alteration					9.10.1.3	
2	Major O	ccupancy	/(S) A2				•		3.1.2.1.(1)		9.10.2	
3	Building	Area (m	2) Exis	ting	0.00 Nev	V 95.10	Total	95.10	1.1.3.2		1.1.3.2	
4	Gross A		Exis	ting	0.00 Nev	V 95.10	Total	95.10	1.1.3.2		1.1.3.2	
5	Number	of Store	ys Abo	ve grade	∋¹	Below (grade	0	3.2.1.1 & 1	.1.3.2	2.1.1.3	
6	Height o	of Building	g (m)		3.35 m						2.1.1.3	
7	Number	of Street	s/Access	Routes	1				3.2.2.10 &	3.2.5.5		
8	Building	Classific	ation		3.2.2.28				3.2.2.208	3	9.10.4	
9	-		Proposed	1		entire bu	ilding				9.10.8	
		,				basemer	-		3.2.2.208	3		
						in lieu of			3.2.1.5			
						Inot requi			3.2.2.17			
10	Standpi	pe require	ed			Ves 🗸			3.2.9			
11		rm requir				□ Yes ☑			3.2.4		9.10.7.2	
12			upply is Ac	leauate			No TO BE	/ERIFIED				
13	High Bu					□ Yes ☑			3.2.6			
14		ed Constr	uction	Cor	nbustible	Non-com			3.2.2.208	3	9.10.6	
		Constructi			nbustible	Non-com						
15	Mezzan	zanine(s) Area m ² 0.00							3.2.1.1.(3)-	9.10.4.1		
16		nt load ba		$\prod m^2$	/person	✓ design of	fbuilding		3.1.1.6	(-7	9.9.1.3	
	Baseme				-	A Loa	-	persons				
	1 st Floor					Loa		persons				
	1 st Floor					A Loa		persons				
	Mezzan			Occup		A Loa		persons				
17	Barrier-f	free Desig	gn [No (Exp	olain)			3.8		9.5.2	
18	Hazardo	ous Subs				,			3.3.1.2.(1)	& 3.3.1.19(1)	9.10.1.3	
19	Requ	ired			semblies	Lis	sted Design	No.	3.2.2.208		9.10.8	
	Fir			FRR (He			or Description (SG-2)			9.10.9		
	Resist	ance	Floors	0	Hours		0					
	Rati	ng	Roof	0	Hours		0					
	(FR	R)	Mezzanin	e 0	– Hours		0					
			FR	R of Su	oporting	Liste	Listed Design No. Or			1		
	Members Floors ⁰ Hours				Description (SG-2)							
				Hours		0						
	Roof ⁰ Hours ⁰											
			Mezzanin	e 0	Hours		0					
20	Spatial	Separatio	n – Const	ruction of	 of Exterior Wa	alls			3.2.3		9.10.14	
	Wall	Area of		L/H	Permitted	Proposed	FRR	Listed	Comb	Comb. Constr.	Non-com	
		EBF	(m)	or	Max. % of	% of	(Hours)	Design o		Nonc.	Constr	
	Marili	(m²)	ALA.	H/L	Openings	Openings	0	Descriptio		Cladding		
	North	29	NA	.34	100	4			NO			
	South	29	NA	.34	100	3	0		NO			
	East	36.2	NA	.28	100	4	0		NO			
	West	36.2	NA	.28	100	4	0		NO			
21	Other –	Describe										

DRAWING LEGEND



TITLE

GRID LINE & COLUMN DESIGNATION

ELECTION / SECTION MARKERS

SECTION MARKERS

(P-) -

DETAIL REFERENCE

INTERIOR ELEVATION MARKERS

WALL TYPE / PARTITION ASSEMBLY TYPE (DENOTED "P" FOLLOWED BY A NUMBER)

DOOR IDENTIFICATION

SCHEDULE REFERENCE

ROOM NAME AND NUMBER IDENTIFICATION

CONSTRUCTION NOTE REFERENCE

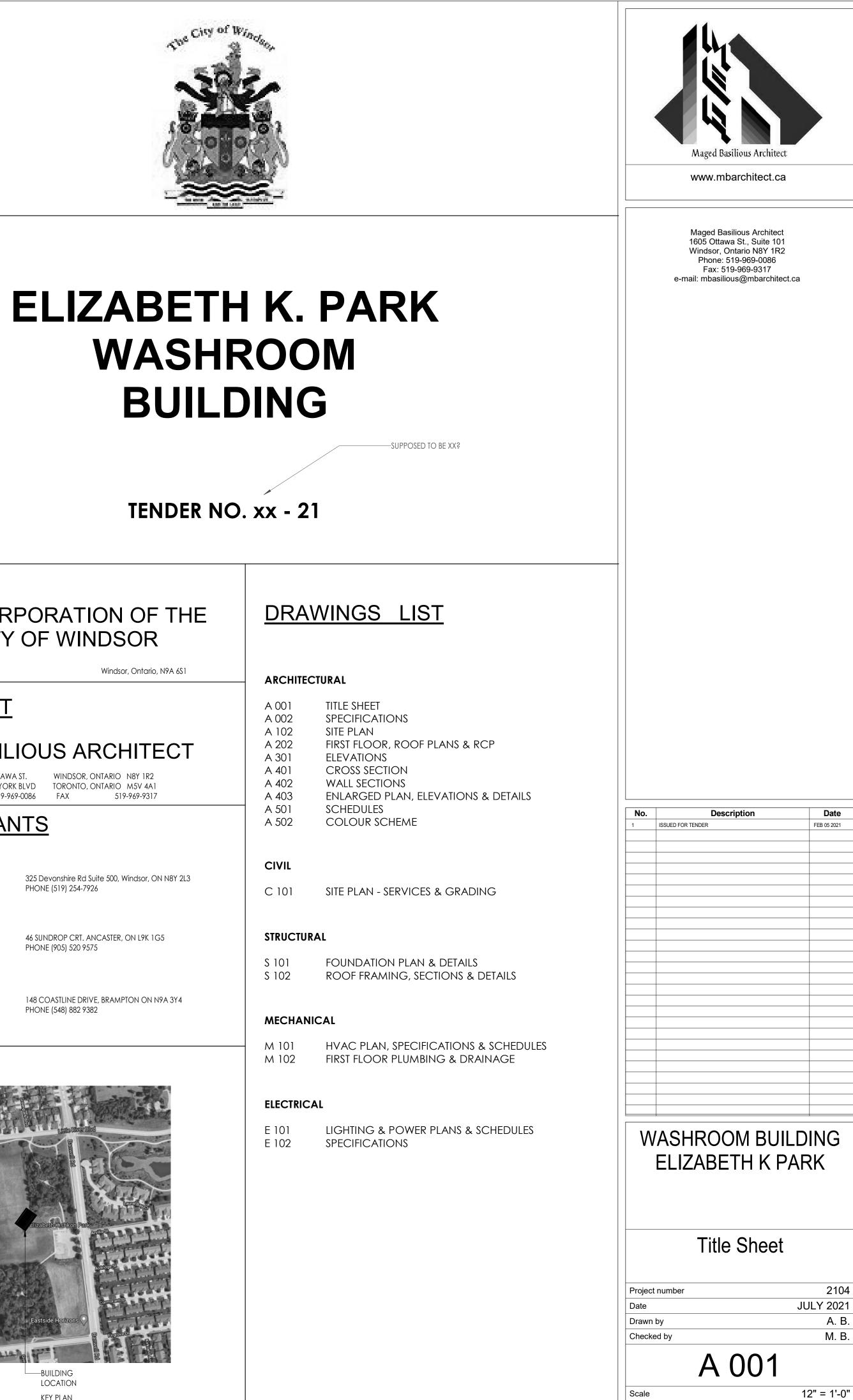
DENOTES FLOOR FINISH

DENOTES WALL FINISH

NEW WALL (REFER TO WALL TYPES)

EXISTING PARTITION TO BE REMOVED

LINE OR BULKHEAD CEILING ABOVE



<u>OWNER</u>

THE CORPORATION OF THE CITY OF WINDSOR

350 City Hall Square West

Windsor, Ontario, N9A 6S1

ARCHITECT

M BASILIOUS ARCHITECT

1605 OTTAWA ST. PHONE 519-969-0086 FAX

windsor, ontario n8y 1r2 209 FORTYORK BLVD TORONTO, ONTARIO M5V 4A1 519-969-9317

<u>CONSULTANTS</u>

STRUCTURAL & CIVIL ENGINEER ALEO ASSOCIATES INC.

325 Devonshire Rd Suite 500, Windsor, ON N8Y 2L3 PHONE (519) 254-7926

MECHANICAL ENGINEER TM ENGINEERING

46 SUNDROP CRT. ANCASTER, ON L9K 1G5 PHONE (905) 520 9575

ELECTRICAL ENGINEER DAR ENGINEERING & DESIGN

148 COASTLINE DRIVE, BRAMPTON ON N9A 3Y4 PHONE (548) 882 9382



BUILDING LOCATION KEY PLAN

Date FEB 05 2021

ELIZABETH K PARK

2104 JULY 2021 A. B. M. B.

04200 UNIT MASONRY	<u>07610</u>	METAL ROOFING SYSTEM
2.0 STANDARD CONCRETE BLOCK:	1.1	MATERIALS: ROOF SYSTEM: PRESTIGE: ROOF PR
.1 STANDARD CONCRETE BLOCK TO CONFORM TO CSA A165.1 SERIES - 14, WITH FOUNDATION AND EXTERIOR EXPOSED WALLS TO BE IN CONFORMANCE WITH	.2	SUBSTRATE: 5/8" PLYWOOD
CLASSIFICATION H / 15 / A / M AND INTERIOR WALLS TO H / 15 / B / M AS SHOWN ON THE DRAWINGS. WHERE NECESSARY FIRE RATED OR OTHER DESIGNATED WALLS TO CONFORM TO H / 15 / C OR D / M IF INDICATED AND SO REQUIRED.	.4	PEEL AND STICK MEMBRANE SHAL ROOF FASTENERS: AS SPECIFIED BY
 .2 SIZE TO BE 8"X16"X8" MODULAR AS INDICATED ON THE DRAWINGS. .3 SPECIAL SHAPES ARE TO BE MACHINE FORMED BY SUPPLIER WITH BULLNOSE UNITS FOR EXPOSED CORNERS (HORIZONTAL AND VERTICAL), AS WELL AS ALL OTHER COMMON UNITS WHICH INCLUDE JAMBS, MASONRY LINTELS 	.5 .6	PREFINISHED ROOF SHEET, EXPOSE PROFILE: PRESTIGE, 20" (508MM) C 230 HAVING A NOMINAL CORE TH
.4 ALL BLOCK TO BE FREE FROM SURFACE STAINS, SPOILS, IMPERFECTIONS AND EDGE DEFECTS.	1.2	PANEL FINISHES:
2.1 <u>ARCHITECTURAL BLOCK</u> .1 ARCHITECTURAL CONCRETE BLOCK TO CONFORM TO CSA A165.1 SERIES - 14 AND CONFORM TO CLASSIFICATION OF H/15/A/M.	.1	PREFINISHED ROOF SHEET COATIN
 .2 SIZE TO BE 8"X16"X8" MODULAR AS INDICATED ON THE DRAWINGS. .3 TYPE 1 - MANUFACTURER: SANTERRA STONECRAFT OR APPROVED ALTERNATE 	1.3 .1	<u>COLOUR</u> PREFINISHED ROOF SHEET COLOU
COLOUR: T.B.D. FROM STANDARD RANGE PROFILE: AS SHOWN ON DRAWINGS		ACCESSORIES
2.2 MASONRY CEMENT		FLASHING: FORMED FROM SAME CLOSURES: FOAM AND METAL CL
.1 MASONRY CEMENT FOR LOAD BEARING AND NON-LOAD BEARING WALLS AND RELATED DETAILS TO CONFORM TO CSA A179-14 TYPE S .2 AGGREGATE FOR USE IN MASONRY CEMENT SHALL BE FINE SAND ONLY AND SHALL BE GRADED WITHIN THE LIMITS AS SPECIFIED IN TABLE 1 OF CSA A179-14.	.3	SEALANTS: IN ACCORDANCE WITH
.3 WATER ADDED SHALL BE CLEAN AND POTABLE AND FREE OF DELETERIOUS SUBSTANCES..4 MASONRY CEMENT TO BE COLOURED AS SELECTED BY THE ARCHITECT.	1.5 .1	FABRICATION FABRICATE ROOF COMPONENTS 1
2.3 MASONRY WALL FLASHING AND WEEPING		SOFFIT PANELS AND ALL COMPAN FABRICATE ALL COMPONENTS OF
.1 BLOCK FLASHING AND WEEPING WILL BE INSTALLED ON ALL EXTERIOR WALLS IN CONFORMANCE TO MANUFACTURER'S INSTRUCTIONS AS SUPPLIED BY BLOK FLASH AND PRODUCED BY MORTAR NET INC.	.3	PROVIDE ROOF SHEET AND ALL AC
.2 BLOCK COURSING ABOVE EACH WINDOW AND DOOR OPENING SHALL BE FILLED SOLID WITH BLOCK FLASH INSTALLED ABOVE EACH IN ACCORDANCE TO MANUFACTURER'S INSTRUCTION AS SUPPLIED BY BLOK FLASH.	2.1 .1	GUARANTEE FOR WORK IN THIS SECTION, WAR
 .3 SIZE OF BLOK FLASH TO CORRESPOND TO THE BLOCK WIDTH INDICATED ON DRAWINGS. .4 MORTAR NET TO BE INSTALLED AT EACH OPEN CORE TO PREVENT BLOCKAGE OF THE BUILT IN WEEPER AND SO INSTRUCTED BY MANUFACTURER. 		FROM DATE OF SUBSTANTIAL COM
.5 OPTION TO THE USE OF MORTAR NET IS THE USE OF CLEAR STONE IN EACH OPEN CAVITY TO A DEPTH OF ½ THAT OF THE BLOCK ABOVE THE BLOK FLASH.		<u>WARRANTY</u> PROVIDE A MANUFACTURER'S WR
2.4 <u>MASONRY REINFORCEMENT</u> .1 BLOK-LOK BL-30 TRUSS-TYPE REINFORCEMENT CONSISTS OF 2 SIDE-RODS WELDED TO A CONTINUOUS DIAGONALLY SHAPED CROSS-ROD FORMING A TRUSS		FINISH WITHIN THE WARRANTY PER ON NORMAL ENVIRONMENTS ANI
DESIGN WITH ALTERNATING WELDS NOT EXCEEDING 8" (200 MM) O.C. OVERALL. 2 COMPLIES WITH ASTM C951, ACI 530 FOR JOINT REINFORCEMENT, CSA STANDARD A370.	.1	{WEATHERXL™ (SILICONIZED POLY
.3 HOT DIPPED GALVANIZED AFTER FABRICATION TO CSA A370-14 AND ASTM A153 Class B2.		FROM APPLICATION). THIS DOES N POLYESTER - SMP) WILL NOT CHAL
230 GLASS UNIT MASONRY		YEARS FROM DATE OF INSTALLATION ASTM METHOD D-2244-02.}
THE DRAWINGS AND SPECIFICATIONS ARE BASED ON CATALOG DATA, SPECIFICATIONS AND PRODUCTS OF PITTSBURGH CORNING CORPORATION AND DESIGNATE THE TYPE AND QUALITY OF WORK INTENDED UNDER THIS SECTION.		FIRESTOPPING
ASS BLOCK UNITS GLASS UNITS, NOMINALLY 8 INCH X 8 INCH X 3 INCH THICK MADE OF CLEAR COLORLESS GLASS WITH A POLYVINYL BUTYRAL EDGE COATING.	1. 2.	SERVICE PENETRATION FIRESTOP S CONTRACTOR SHALL FOLLOW DE
CESSORIES		
PANEL REINFORCING: TWO PARALLEL 9 GAUGE WIRES EITHER 15/8 INCH OR 2 INCH ON CENTER WITH ELECTRICALLY BUTT-WELDED CROSSWIRES	<u>07460</u>	FIBRE CEMENT SIDING
SPACED AT REGULAR INTERVALS, HOT DIPPED GALVANIZED AFTER WELDING OR TYPE 304 STAINLESS STEEL, BY PITTSBURGH CORNING CORPORATION. PANEL ANCHORS: 20 GAUGE PERFORATED STEEL STRIPS 24 INCHES LONG BY 1¾ INCHES WIDE, HOT DIPPED GALVANIZED AFTER PERFORATION OR 22	1.	ACCEPTABLE MANUFACTURER: JA
GAUGE BY 16 INCHES LONG BY 1 ³ /4 INCHES WIDE OF TYPE 304 STAINLESS STEEL, BY PITTSBURGH CORNING CORPORATION. EXPANSION STRIPS: MADE OF POLYETHYLENE FOAM WITH A THICKNESS OF 3/8 INCH, BY PITTSBURGH CORNING CORPORATION.	2. 3.	SUBSTITUTIONS: NOT PERMITTED. HARDIE TEXTURED PANELS AS MAN
ASPHALT EMULSION: A WATER-BASED ASPHALT EMULSION, BY KARNAK CHEMICAL CORP. (KARNAK 100, 1-800-526-4236), OR EQUAL. SEALANT (CAULK): NON-STAINING, WATERPROOF MASTIC, SILICONE TYPE. SEALANT APPROVED MANUFACTURERS: DOW CORNING CORPORATION,	4. 5.	
GENERAL ELECTRIC, SONNEBORN BUILDING PRODUCTS, TREMCO INCORPORATED, 06 IN PACKING (BACKER RODS): POLYETHYLENE FOAM, NEOPRENE, FIBROUS GLASS OR EQUAL AS APPROVED BY SEALANT MANUFACTURER.	6. 7.	
. CHANNELS (ALUMINUM): AVAILABLE FROM JULIUS BLUM & COMPANY, INC., 1-800-526-6293 IN CARLSTADT, NJ. VISTABRIK® AND THINLINE® SERIES (3" GLASS BLOCK), USE: 4" X 1½" X 1/8" SIZE.		
AORTAR MATERIALS		
MORTAR: LIMIT CEMENTITIOUS MATERIALS IN MORTAR TO PORTLAND CEMENT AND LIME. TYPE S IN ACCORDANCE WITH ASTM C270. MORTAR SHALL BE 1 PART PORTLAND CEMENT, ½ PART LIME, AND SAND EQUAL TO 2¼ TO 3 TIMES THE AMOUNT OF CEMENTITIOUS MATERIAL (CEMENT PLUS LIME), ALL MEASURED BY		
VOLUME. (FOR EXTERIOR GLASS BLOCK PANELS, AN INTEGRAL TYPE WATERPROOFER SHOULD BE ADDED TO THE MORTAR MIX.) NO ANTIFREEZE COMPOUNDS OR ACCELERATORS ALLOWED. PORTLAND CEMENT IS USED, THE INTEGRAL TYPE WATERPROOFER SHALL BE		
PORTLAND CEMENT: TYPE I IN ACCORDANCE WITH ASTM C150. IF A WATERPROOF PORTLAND CEMENT IS USED, THE INTEGRAL TYPE WATERPROOFER SHALL BE OMITTED. (MASONRY CEMENT IS NOT RECOMMENDED.) COLOR: WHITE	<u>07900</u>	CAULKING AND SEALANTS
LIME: SHALL BE A DOLOMITIC PRESSURE-HYDRATED LIME, SPECIAL HYDRATE, TYPE S, IN ACCORDANCE WITH ASTM C207. SAND: A CLEAN, WHITE QUARTZITE OR SILICA TYPE, ESSENTIALLY FREE OF IRON COMPOUNDS, IN ACCORDANCE WITH ASTM C144, NOT LESS THAN 100% PASSING	1. 2.	EXTERIOR SEALANT: MULTI-COMPO INTERIOR SEALANT: AROUND WINI
A NO. 8 SIEVE. INTEGRAL TYPE WATER-REPELLENT: STEARATE TYPE BY THE EUCLID CHEMICAL COMPANY (INTEGRAL WATERPELLER® POWDER, NOT LIQUID , 1-800-321-7628), OR	3. 4.	SILICONE SEALANT: FOR PLUMBING PAINTABLE INTERIOR SEALANT: ON
APPROVED EQUAL. NOTE: ADD INTEGRAL WATERPELLER® POWDER TO DRY MORTAR MIX. DO NOT ADD POWDER TO WET MORTAR MIX. EXTERNAL TYPE WATER PROOFER: WATER BASED SILANE SEALER TYPE BY BASF CORPORATION (HYDROZO ENVIROSEALTM 40, 1-800-243-6739). NOTE: REMOVE EXCESS SEALER FROM GLASS SURFACES SOON AFTER APPLICATION.	5.	APPLY SEALANT OR CAULKING BET
	08100	METAL DOORS AND FRAMES
500 METAL WORK (GALVANIZE LINTELS)	1.	Hollow metal doors and fra
ALL EXPOSED WELDED JOINTS SHALL BE CHIPPED AND GROUND SMOOTH. ALL MECHANICAL JOINTS SHALL HAVE A BUTT JOINT WITH A HAIRLINE SEAM.	2. 3.	FRONT DOUBLE DOOR SHALL BE FI EXTERIOR HOLLOW METAL DOORS
ALL ATTACHMENTS REQUIRED FOR METAL FRAMEWORK SHALL BE INCONSPICUOUS AND/OR INVISIBLE - UNLESS NOTED OTHERWISE. ALL METAL WORK SHALL BE FITTED AND FABRICATED IN THE METAL SHOP, PROVIDING FOR MINIMAL ASSEMBLY ON SITE.		SHEETS SHALL BE 16 GAUGE. INTERIOR HOLLOW METAL DOORS
ALL ANCHORING DEVICES REQUIRED FOR THE COMPLETE INSTALLATION OF METALWORK SHALL BE PROVIDED BY THIS CONTRACTOR. ALL EXPOSED ENDS OF METAL TUBING SHALL BE CAPPED, WELDED AND GROUND SMOOTH.		HOLLOW METAL FRAMES SHALL BE ALL DOORS AND FRAMES SHALL B
PREPARATION OF METAL SURFACES SHALL BE IN ACCORDANCE WITH FINISH MANUFACTURER INSTRUCTION IN REGARD TO SANDBLASTING, PRIMING, ELECTROPLATING AND SPRAY APPLICATION OF ANY APPLIED FINISH. THE METAL FARRIES FOR SUALL SUBMIT SUOD DRAWINGS SUCCESSION OF ALL CONNECTIONS, ANGUORAGE METHODS, SIZES, FINISHES, FOR ALL	7.	SUBMIT SHOP DRAWINGS FOR APP
THE METAL FABRICATOR SHALL SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF ALL CONNECTIONS, ANCHORAGE METHODS, SIZES, FINISHES ETC., OF ALL METALWORK, FOR APPROVAL BY THE DESIGNER PRIOR TO ANY FABRICATION.		
ALL METAL COMPONENTS WITH EXPOSED EDGES SHALL HAVE SMOOTH EDGES. ALL EXPOSED SCREWS BOLTS AND WASHERS SHALL BE FINISHED TO MATCH THE ADJACENT METAL FINISH. SUBMIT SAMPLES FOR APPROVAL PRIOR TO THE START OF WORK		FINISHING HARDWARE
START OF WORK.		HARDWARE SHALL BE ACCORDING CONTRACTOR SHALL SUPPLY A CO
		LOCKS FOR EQUIPMENT AND ELEC ALL DOORS TO HAVE ROTON HING
	5.	SUBMIT SHOP DRAWINGS FOR APP
EXTERIOR INSULATION: a. SEMI RIGID INSULATION; RXL 40 MINERAL WOOL, R-4.5/IN. TO CAN/CGSB 51.10-92 TYPE 2 CLASS 2 AS MANUFACTURED BY ROXUL, OR APPROVED FOULA	00/70	
OR APPROVED EQUAL. b. RIGID INSULATION; EXTRUDED EXPANDED POLYSTYRENE BOARD CONFORMING TO CAN/CGSB-S1.20-M87 TYPE 4, STYROFOAM SM BY DOW CHEMICAL CANADA OR FOLIAL		FLUID APPLIED FLOORING FOR CO MATERIAL: EPOXY PRIMER / SELF-L
OR EQUAL FOUNDATION AND UNDER SLABS INSULATION: EXTRUDED EXPANDED POLYSTYRENE BOARD CONFORMING TO CAN/CGSB-S1.20-M87 TYPE 4, STYROFOAM SM BY DOW CHEMICAL CANADA OR FOUND	^{1.}	MATERIAL: EPOXY PRIMER / SELF-L 1ST COAT: ARMORSEAL 33 EPOXY (7.0 - 9.0 MILS DRY)
DOW CHEMICAL CANADA OR EQUAL. FLEXIBLE BATT INSULATION: ROXUL INSULATION AS PER SPECIFIED THICKNESS SPRAY POLYURETHANE FOAM:		(7.0 - 9.0 MILS DRY) 2ND COAT: ARMORSEAL 650 SL/R((10.0 - 30.0 MILS DRY PER COAT)
SPRAY POLYURETHANE FOAM: 4.1 MATERIAL: TWO-COMPONENT SPRAY POLYURETHANE CELLULAR PLASTIC FOAM, COMPLYING WITH THE FOULOWING METHODS AND MEETING THE FOLLOWING PHYSIC AL PROPERTIES:	2.	INSTALLATION:
WITH THE FOLLOWING METHODS AND MEETING THE FOLLOWING PHYSICAL PROPERTIES: a. CORE DENSITY (ASTM D1622): [MINIMUM 2PCF b. THERMAL RESISTANCE (ASTM C518): 1/0DEGREEE/90DAY AGED R-VALUE, MEASURED AT 75E MEAN TEMP: MINIMUM R6.0/INCH	۷.	a. DO NOT BEGIN APPLICATION C b. PREPARATION AND ACCEPTAN
b. THERMAL RESISTANCE (ASTM C518): 140DEGREEF/90DAY AGED R-VALUE, MEASURED AT 75F MEAN TEMP: MINIMUM R6.0/INCH. c. FLAME SPREAD (ASTM E84, CLASS A): 25 OR LESS. d. SMOKE DEVELOPED (ASTM E84, CLASS A): 450 OR LESS.		C. POURED CONCRETE SURFACE F PROFILE TO ACHIEVE ADEQUATE A
d. SMOKE DEVELOPED (ASTM E84, CLASS A): 450 OR LESS. e. COMPRESSIVE STRENGTH MINIMUM (ASTM D1621, 10% PARALLEL TO RISE): (20 PSI)(182 KPA). f. CLOSED CELL CONTENT (ASTM D2854): MINIMUM 95 PERCENT		EFFLORESCENCE, LAITANCE, AND REFER TO ASTM D4260. RINSE THO
f. CLOSED CELL CONTENT (ASTM D2856): MINIMUM 95 PERCENT. g. WATER ABSORPTION BY VOLUME MAXIMUM. (ASTM D2842): 2.5 PERCENT. h. WATER VAPOR PERMEABILITY MAXIMUM. (ASTM E96): [2.5 PERM-INCHES] [3.6 NG/(PA.S.M)].		d. FILL ALL CRACKS, VOIDS, BUG F EXPRESSPATCH.
n. WATER VAPOR PERMEABILITY MAXIMUM. (ASTM E96): [2.5 PERM-INCHES] [3.6 NG/(PA.S.M)]. 4.2 MANUFACTURER: DOW CHEMICAL OR EQUAL 4.3 APPLICATION: MUST BE INSTALLED BY DOW CHEMICAL APPROVED APPLICATOR AT TIME OF BIDDING.		e. APPLY ALL COATINGS AND MA' RECOMMENDATION.
4.3 APPLICATION: MUST BE INSTALLED BY DOW CHEMICAL APPROVED APPLICATOR AT TIME OF BIDDING. VAPOUR BARRIER: 6 MIL POLYETHYLENE FILM TO CAN/CGSB 51.34-M86.		f. DO NOT APPLY TO WET OR DAM g. WAIT AT LEAST 28 DAYS BEFORE
		28 DAYS. TEST NEW CONCRETE FO h. APPLY COATINGS USING METH

STEM

STIGE: ROOF PROFILE BY VICWEST, COVERAGE 20".

WOOD MBRANE SHALL BE LASTOBOND HT BY SOPREMA INC. OR EQUAL

AS SPECIFIED BY MANUFACTURER, TO RESIST WIND UPLIFT AND SLIDING SNOW FORCES. SHEET, EXPOSED TO EXTERIOR.

20" (508MM) COVERAGE PANEL: Z275 GALVANIZED (ZINC COATED) SHEET STEEL CONFORMING TO ASTM A653M STRUCTURAL QUALITY GRADE MINAL CORE THICKNESS 0.61MM (0.024

SHEET COATING: PREPAINTED WITH WEATHERXL™

SHEET COLOUR TO BE SELECTED FROM THE MANUFACTURER'S STANDARD COLOUR RANGE.

) FROM SAME MATERIALS AS THE ROOF SHEET. CUSTOM FABRICATED TO SUIT ARCHITECTURAL DETAILS, AS REQUIRED. AND METAL CLOSURES TO SUIT PROFILES SELECTED, TO MANUFACTURER'S RECOMMENDATIONS. DRDANCE WITH MANUFACTURER'S RECOMMENDATION AND SECTION [07 92 00].

OMPONENTS TO COMPLY WITH DIMENSIONS, PROFILES, GAUGES AND DETAILS AS SHOWN ON THE SHOP DRAWINGS, NCLUDING FASCIA AND ALL COMPANION FLASHING. MPONENTS OF THE SYSTEM IN THE FACTORY, READY FOR FIELD INSTALLATION.

ET AND ALL ACCESSORIES IN LONGEST PRACTICABLE LENGTH TO MINIMIZE FIELD LAPPING OF JOINTS.

SECTION, WARRANTY BY INSTALLER AGAINST DEFECTS OR DEFICIENCIES IN MATERIALS OR WORKMANSHIP SHALL BE FOR A PERIOD OF ONE YEAR STANTIAL COMPLETION.

ACTURER'S WRITTEN WARRANTY: FURNISH PANEL MANUFACTURER'S WRITTEN WARRANTY COVERING FAILURE OF FACTORY-APPLIED EXTERIOR VARRANTY PERIOD. WARRANTY PERIOD FOR FINISH: {40 YEARS} AFTER THE DATE OF SUBSTANTIAL COMPLETION. THE VALUES BELOW ARE BASED CONMENTS AND EXCLUDE ANY AGGRESSIVE ATMOSPHERIC CONDITIONS.

CONIZED POLYESTER - SMP) WILL NOT CRACK, CHIP, OR PEEL (LOSE ADHESION) FOR FORTY (40) YEARS FROM DATE OF INSTALLATION (40.5 YRS N). THIS DOES NOT INCLUDE MINUTE FRACTURING THAT MAY OCCUR DURING THE NORMAL FABRICATION PROCESS. WEATHERXLTM (SILICONIZED VILL NOT CHALK IN EXCESS OF A NUMBER SIX (6) RATING, IN ACCORDANCE WITH ASTM D-4214-98 METHOD D659 AT ANY TIME FOR THIRTY (30) OF INSTALLATION (30.5 YRS FROM APPLICATION); WILL NOT CHANGE COLOUR MORE THAN EIGHT (8.0) HUNTER ΔE UNITS AS DETERMINED BY 244-02.}

ON FIRESTOP SYSTEMS AND JOINT FIRESTOP SYSTEMS AS MANUFACTURED BY HILTI, TREMCO, A/D FIRE PROTECTION. LL FOLLOW DETAILS ON DRAWINGS.

JFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 231 S. LA SALLE ST. SUITE 2000; CHICAGO, IL 60604; PFRMITTED.

ANELS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC. A NON-COMBUSTIBLE FIBER-CEMENT PANEL

<u>ALANTS</u>

MULTI-COMPONENT CHEMICALLY CURING SEALING TO MEET CAN/CGSB -19.24-M.

- AROUND WINDOWS AND DOORS TO MEET CGSB-19.13-M.
- FOR PLUMBING FIXTURES AND VANITY TOPS, MILDEW RESISTANT TO MEET CGSB -19.13-M. R SEALANT: ONE PART ACRYLIC-LATEX TO MEET CAN/CGSB 19.17-M.
- CAULKING BETWEEN ALL DISSIMILAR MATERIALS

FRAMES

) ors and frames shall be as manufactured by daybar, artek door or approved equal OR SHALL BE FLAT HOLLOW METAL AS MANUFACTURED BY CECO DOOR (ASSA ABLOY) MADERA STYLE OR EQUAL

METAL DOORS SHALL HAVE SEAMLESS EDGES, FOAM- FILLED CORES, REINFORCED FOR HARDWARE, FULLY WEATHER STRIPPED. FACE GAUGE METAL DOORS SHALL HAVE 18 GAUGE FACE SHEETS.

AMES SHALL BE 16 GAUGE, SHALL HAVE INTERNAL STOPS AND SILENCERS.

AMES SHALL BE PREFINISHED AND PAINTED PRIOR TO INSTALLATION. (INSIDE AND OUT FOR FRAMES) VINGS FOR APPROVAL.

BE ACCORDING TO SCHEDULE IN THE DRAWINGS. HARDWARE TO BE HEAVY DUTY COMMERCIAL QUALITY. LL SUPPLY A COMPLETE HARDWARE SCHEDULE PREPARED BY THE SUPPLIER. MENT AND ELECTRICAL ROOMS WILL BE SUPPLIED BY THE CITY. E ROTON HINGES. (CAPABLE OF 180° OPENING) VINGS FOR APPROVAL.

RING FOR CONCRETE

RIMER / SELF-LEVELING EPOXY SYSTEM AS MANUFACTURED BY SHERWIN WILLIAMS EAL 33 EPOXY PRIMER/SEALER, B58-33 SERIES

RSEAL 650 SL/RC SELF-LEVELING EPOXY, B58-650 SERIES

VPLICATION OF COATINGS UNTIL SUBSTRATES HAVE BEEN PROPERLY EXAMINED AND PREPARED. ND ACCEPTANCE OF THE SUBSTRATE IS THE RESPONSIBILITY OF THE FLOORING INSTALLER. ETE SURFACE PREPARATION: REFER TO SSPC-SP13/NACE 6/ICRI # 03732. SURFACES MUST BE CLEAN, DRY, SOUND AND OFFER SUFFICIENT YE ADEQUATE ADHESION. MINIMUM SUBSTRATE CURE IS 28 DAYS AT 75°F. REMOVE ALL FORM RELEASE AGENTS, CURING COMPOUNDS, SALTS, AITANCE, AND OTHER FOREIGN MATTER BY SANDBLASTING, SHOTBLASTING, MECHANICAL SCARIFICATION, OR SUITABLE CHEMICAL MEANS. 260. RINSE THOROUGHLY TO ACHIEVE A FINAL PH BETWEEN 8.0 AND 10.0. ALLOW TO DRY THOROUGHLY PRIOR TO COATING. , VOIDS, BUG HOLES AND JOINTS WITH APPROPRIATE FILLER OR ARMORSEAL CRACK FILLER, ARMORSEAL JOINT SEALANT, OR ARMORSEAL

INGS AND MATERIALS WITH THE MANUFACTURER'S SPECIFICATIONS IN MIND. MIX AND THIN COATINGS ACCORDING TO MANUFACTURER'S

) WET OR DAMP SURFACES.

DAYS BEFORE APPLYING TO NEW CONCRETE OR MASONRY, OR FOLLOW MANUFACTURER'S PROCEDURES TO APPLY APPROPRIATE COATINGS PRIOR TO CONCRETE FOR MOISTURE CONTENT.

S USING METHODS RECOMMENDED BY MANUFACTURER.

i. UNIFORMLY APPLY COATINGS WITHOUT RUNS, OR SAGS, WITHOUT BRUSH MARKS, AND WITH CONSISTENT SHEEN. j. APPLY COATINGS AT SPREADING RATE REQUIRED TO ACHIEVE THE MANUFACTURER'S RECOMMENDED DRY FILM THICKNESS.

09900 PAINTING AND FINISHING

- APPROVED PAINT MANUFACTURERS ARE DULUX, ICI CANADA, GLIDDEN, SANSIN AND BENJAMIN MOORE.
- MANUFACTURER MINIMUM REQUIREMENTS.
- SCHEDULE PAINTING WORK WITH OTHER TRADES. COLOURS WITH THE OWNER.
- PRELIMINARY COLOUR SCHEDULE IS SHOWN ON DRAWINGS.

- SATIN VARNISH. USE EXTERIOR GRADE STAIN AND VARNISH FOR WOOD SOFFIT.
- INSPECT SURFACES BEFORE PAINTING AND REPORT ANY DEFECTS IN EXISTING WORK. 12 CLEAN ALL SURFACES BEFORE PAINTING AND PROVIDE PROTECTION FOR OTHER WORK.
- 14. SCOPE OF WORK TO INCLUDE ALL UNFINISHED AND PRIMED SURFACES AND ELEMENTS IN THE PROJECT.

09962 ANTI-GRAFFITI COATING

1. REFERENCES:

- a. MPI # 205: ANTI GRAFFITI COATING B. RG (OTC OR EC), ENVIRONMENT CANADA VOC'S REQUIREMENTS WORK: APPLY ANTI-GRAFFITI COATING FOR THE FOLLOWING: a. EXTERIOR ARRISCRAFT STONE
- **b. EXTERIOR STONE SILL**
- c. EXTERIOR EIFS d. INTERIOR EPOXY PAINTED CMU
- MATERIAL: PRO INDUSTRIAL ANTI-GRAFFITI COATINGS MANUFACTURED BY SHERWIN WILLIAMS 1ST COAT: 1K SILOXANE (12.0 MILS WET, 9.0 MILS DRY PER COAT) - REDUCED WITH 10% MINERAL SPIRITS 2ND COAT: 1K SILOXANE (12.0 MILS WET, 9.0 MILS DRY PER COAT)
- INSTALLATION: 4. b. PREPARATION AND ACCEPTANCE OF THE SUBSTRATE IS THE RESPONSIBILITY OF THE PAINT INSTALLER. PEELING, FLAKING, CRACKING, BLISTERING OR LIFTING MUST BE REMOVED TO ENSURE ADEQUATE ADHESION. CONDITION DIRECTLY AFTER WATER JETTING/BLASTING. d. PROVIDE ADEQUATE MOCK UP AREA FOR EACH SUBSTRATE APPLICATION. e.COVER OR MASK ALL ADJACENT SERVICES TO RECEIVE COATING TO PROTECT OTHER WORK. f. APPLY COATINGS AS PER MANUFACTURER INSTRUCTIONS. e. PROVIDE ONE GALLON OF THE MATERIAL TO THE OWNER AT THE COMPLETION OF THE PROJECT.

09960 INTERIOR HIGH PERFORMANCE COATINGS

- 1. MATERIAL: PRO INDUSTRIAL PRECATALYZED WATERBASED EPOXY EG-SHEL AS MANUFACTURED BY SHERWIN WILLIAMS 1ST COAT: S-W HEAVY DUTY BLOCK FILLER, B42W46 (18.0 MILS WET, 10.0 MILS WET) 2ND COAT: S-W PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY EG-SHEL, K45 SERIES 2. INSTALLATION:
- b. PREPARATION AND ACCEPTANCE OF THE SUBSTRATE IS THE RESPONSIBILITY OF THE PAINT INSTALLER. ADHESION.
- ANY OF THE MIXTURE THAT COMES IN CONTACT WITH YOUR SKIN. DO NOT ADD DETERGENTS OR AMMONIA TO THE BLEACH/WATER SOLUTION. f. PROVIDE ONE GALLON OF EACH COLOUR TO THE OWNER AT HE COMPLETION OF THE PROJECT.

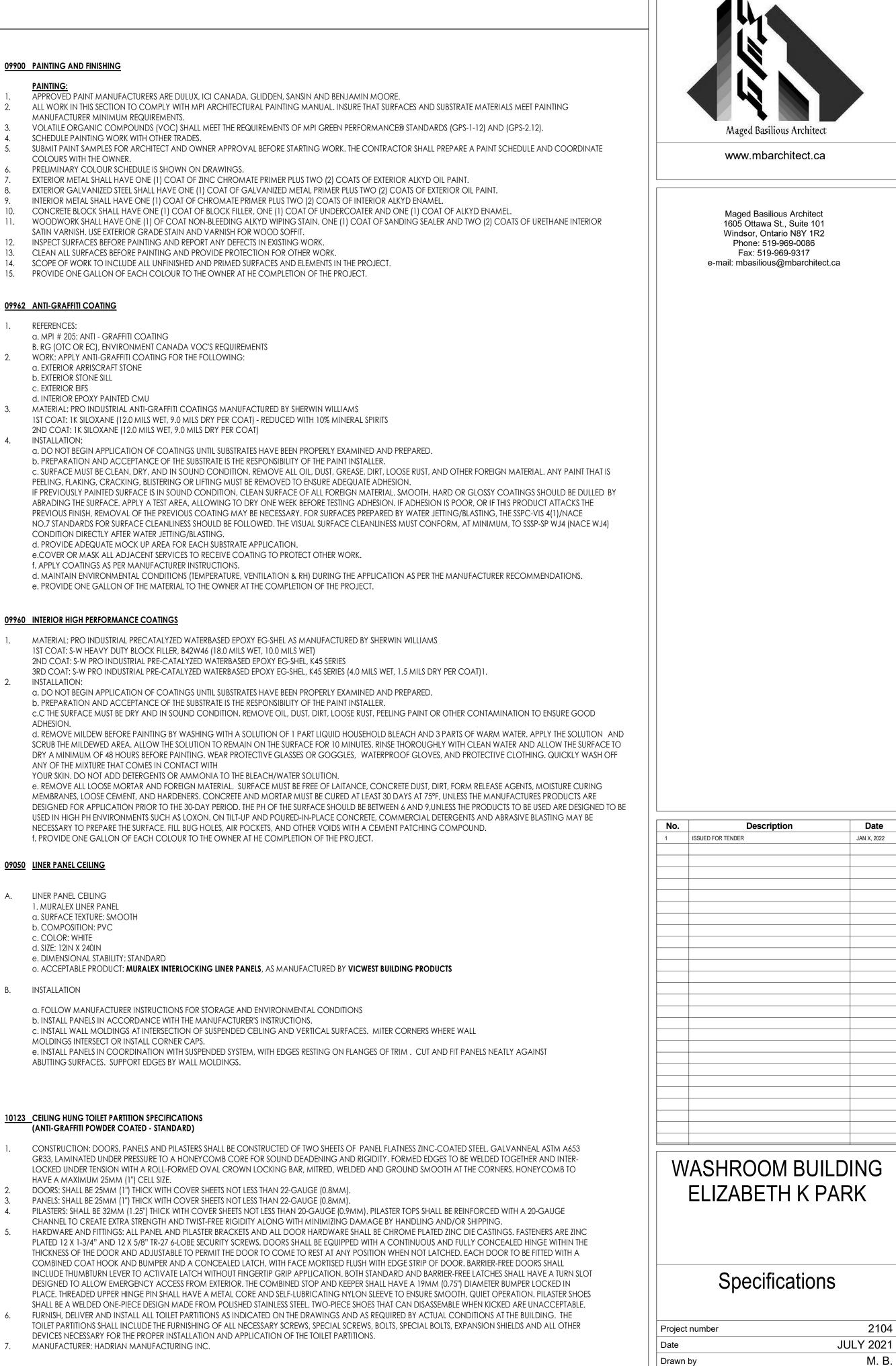
09050 LINER PANEL CEILING

- A. LINER PANEL CEILING
- 1. MURALEX LINER PANEL a. SURFACE TEXTURE: SMOOTH
- b. COMPOSITION: PVC
- c. COLOR: WHITE
- d. SIZE: 12IN X 240IN e. DIMENSIONAL STABILITY: STANDARD
- INSTALLATION Β.

a. FOLLOW MANUFACTURER INSTRUCTIONS FOR STORAGE AND ENVIRONMENTAL CONDITIONS b. INSTALL PANELS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MOLDINGS INTERSECT OR INSTALL CORNER CAPS. ABUTTING SURFACES. SUPPORT EDGES BY WALL MOLDINGS.

10123 CEILING HUNG TOILET PARTITION SPECIFICATIONS (ANTI-GRAFFITI POWDER COATED - STANDARD)

- HAVE A MAXIMUM 25MM (1") CELL SIZE.
- DOORS: SHALL BE 25MM (1") THICK WITH COVER SHEETS NOT LESS THAN 22-GAUGE (0.8MM). PANELS: SHALL BE 25MM (1") THICK WITH COVER SHEETS NOT LESS THAN 22-GAUGE (0.8MM).
- 5.
- DEVICES NECESSARY FOR THE PROPER INSTALLATION AND APPLICATION OF THE TOILET PARTITIONS.
- 7. MANUFACTURER: HADRIAN MANUFACTURING INC.



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Checked by

A 002

GENERAL NOTES:

- ALL WORK IN THIS PROJECT SHALL BE ACCORDING TO THE CITY OF WINDSOR STANDARDS.
- REFER TO SITE GRADING & SERVICING SITE PLANS FOR ALL EXISTING & NEW LOCATIONS OF SERVICES AND ENTRY OF SERVICES INTO THE 2. BUILDING ENVELOPE. ALL MECHANICAL & ELECTRICAL INFORMATION INDICATED ON ARCHITECTURAL SITE DWG IS FOR GENERAL REFERENCE AND CO-ORDINATION ONLY.
- REFER TO SITE GRADING PLAN FOR PROPOSED FINAL FINISH GRADE ELEVATIONS AND DRAINAGE SLOPES.
- EXISTING TREES TO REMAIN TO BE PROTECTED DURING CONSTRUCTION. REFER TO LANDSCAPE SPECIFICATIONS AND DRAWINGS. ALL WORK INVOLVED IN THE CONSTRUCTION, RELOCATION, REPAIR OF MUNICIPAL SERVICES FOR THE PROJECT SHALL BE TO THE
- SATISFACTION OF THE CITY OF WINDSOR.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FORM THE REQUIREMENTS TO OBTAIN THE VARIOUS 6. PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: BUILDING PERMIT, ROAD CUT PERMITS, APPROACH APPROVAL PERMITS, COMMITTEE OF ADJUSTMENTS, SEWER AND WATER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS (IF REQUIRED).
- 7. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE ENGINEERING SERVICES DEPARTMENT, CITY OF WINDSOR, FOR THE PURPOSES OF VEHICULAR ACCESS TO THE PROPERTY, (ENTRANCE PERMIT), AND SERVICING EXCAVATIONS WITHIN THE MUNICIPAL ROAD ALLOWANCE, (ROAD OCCUPANCY PERMIT). PRIOR TO THE COMMENCEMENT OF ANY WORKS ON THIS SITE, HOARDING SHALL BE INSTALLED AROUND THE PERIMETER AS PER GOOD 8.
- CONSTRUCTION AND SITE SAFETY PRACTICE OR AS DETERMINED BY THE MANAGER, DEVELOPMENT ENGINEERING, UNTIL SUCH TIME AS OTHERWISE DIRECTED BY THE MANAGER, DEVELOPMENT ENGINEERING.
- SITE SILTATION CONTROL MEASURES/FENCING SHALL BE ERECTED FROM COMMENCEMENT OF THE PROJECT THROUGHOUT THE DURATION 9. OF THE PROJECT AS PER OPSD 219.110.

SEDIMENT CONTROL NOTES:

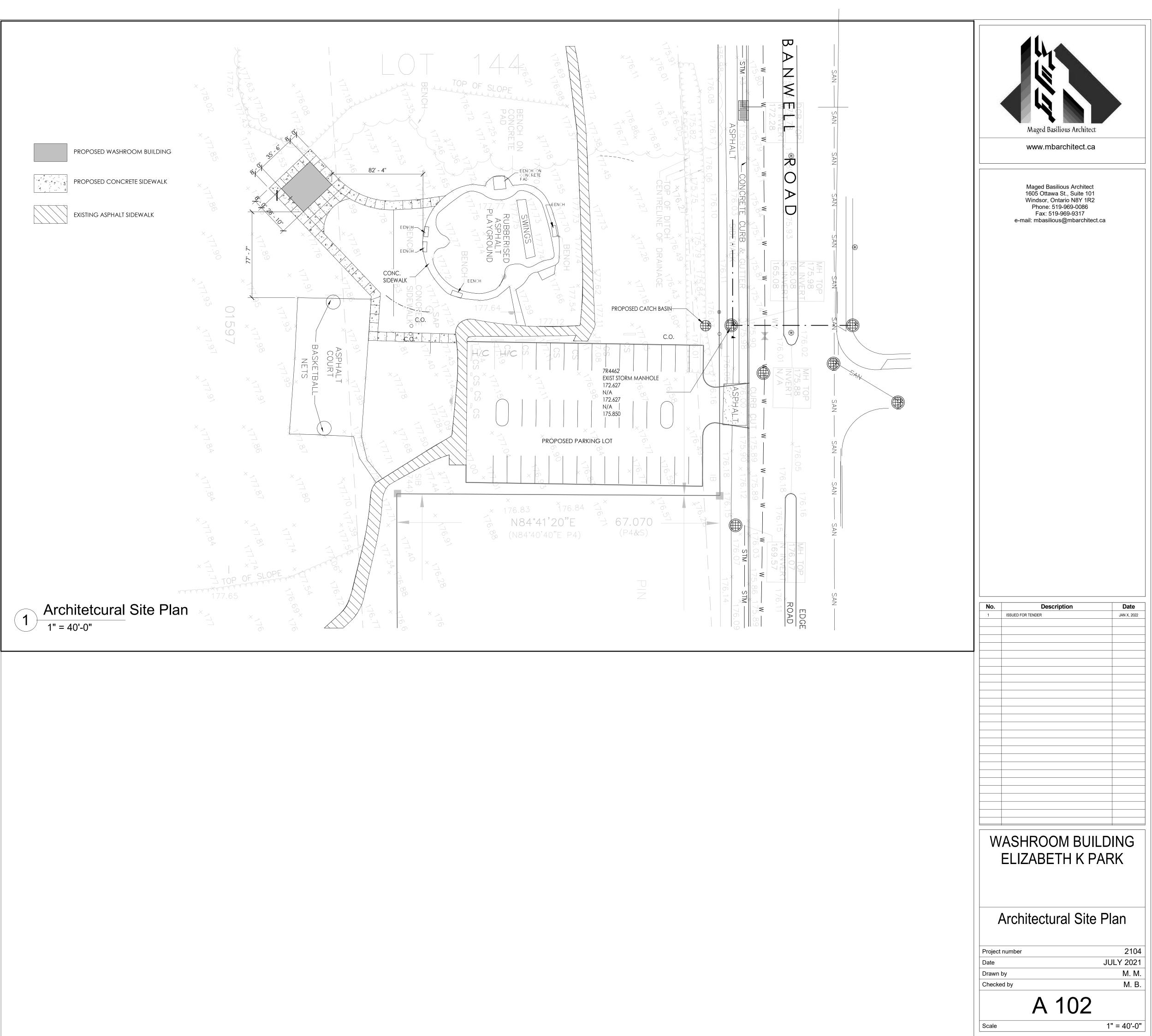
- PROTECT ALL EXPOSED SURFACES AND CONTROL RUNOFF DURING CONSTRUCTION.
- ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE STARTING CONSTRUCTION AND REMAIN IN PLACE UNTIL RESTORATION IS 2. COMPLETE.
- MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION. ALL COLLECTED SEDIMENT MUST BE DISPOSED OFF AT AN APPROVED LOCATION.
- MINIMIZE THE AREA DISTURBED DURING CONSTRUCTION.
- ALL DEWATERING MUST BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE (TERRAFIX 270R OR EQUAL).
- KEEP ALL SUMPS CLEAN DURING CONSTRUCTION. 8
- PREVENT WIND-BLOWN DUST. 9 STRAW BALES TO BE USED IN LOCALIZED AREAS AS SHOWN AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR WORKS 10.
- WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES. STRAW BALES TO BE TERMINATED USING ROUNDING BALES TO CONTAIN AND FILTER RUNOFF. 11.
- OBTAIN APPROVAL FROM UTRCA (UPPER THAMES RIVER CONSERVATION AUTHORITY) PRIOR TO CONSTRUCTION FOR WORKS WHICH 12.
- ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES. ALL SILT FENCING AND DETAILS ARE AT THE MINIMUM TO BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY OF NATURAL 13. RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.
- 14. ALL OF THE ABOVE NOTES AND ANY SEDIMENT AND EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

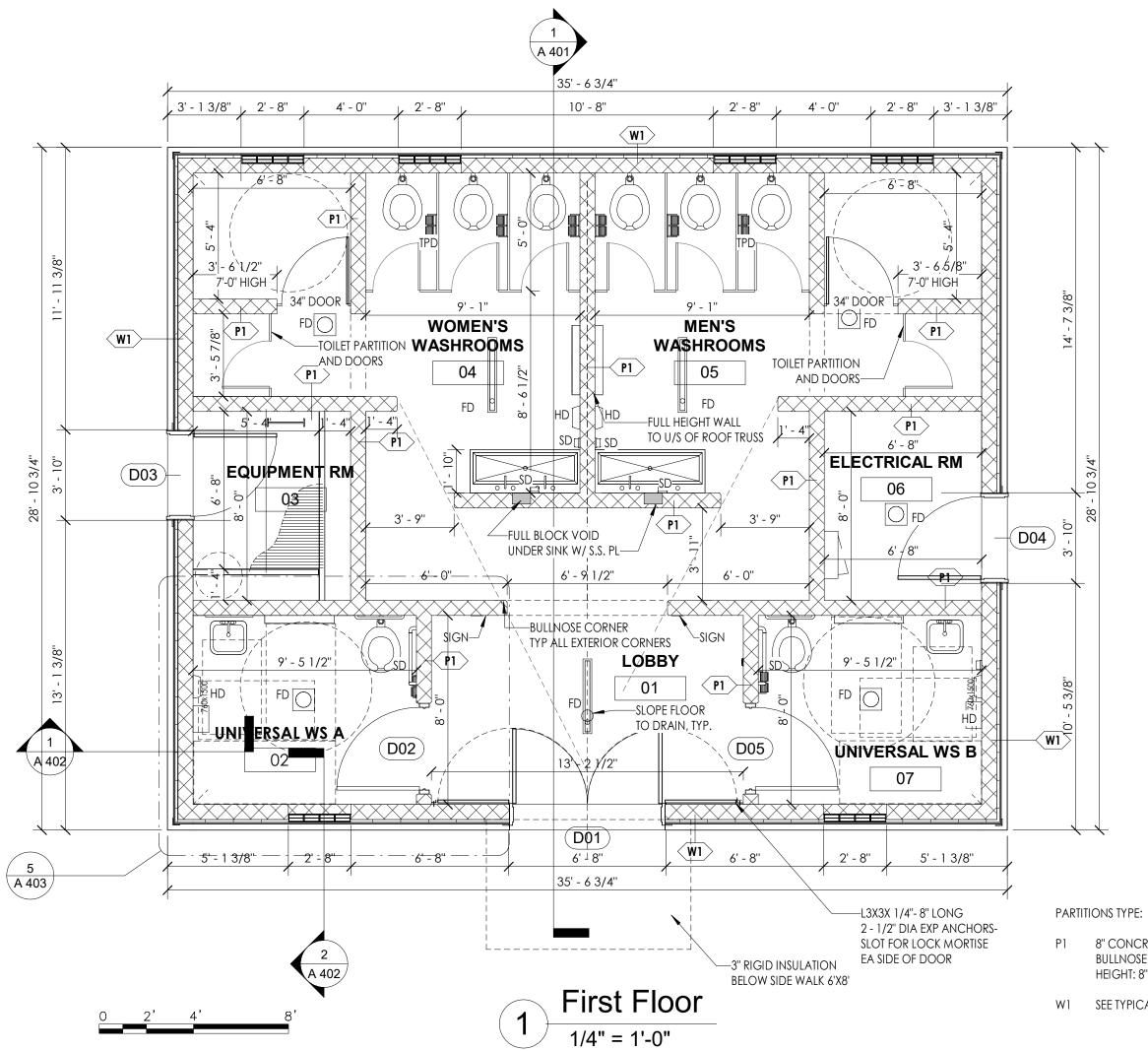
GRADING AND DRAINAGE:

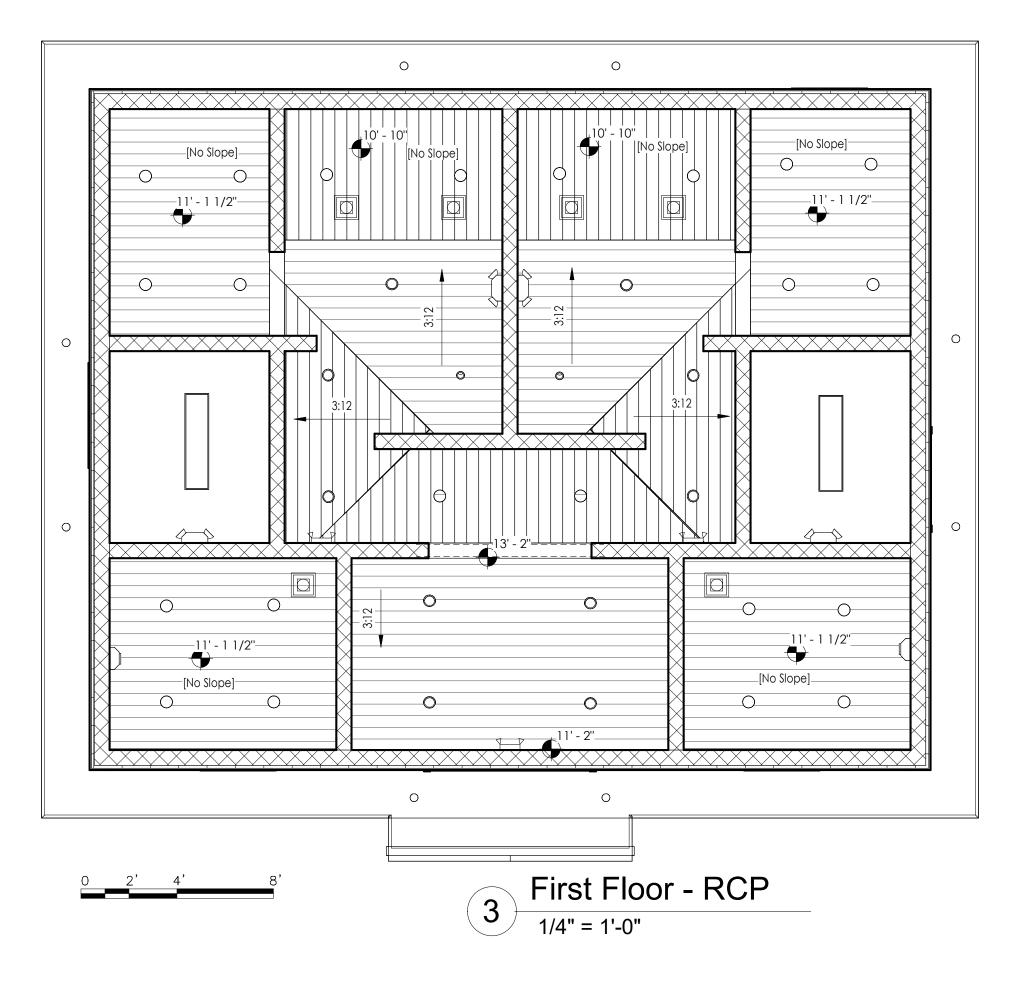
- APPROVED FILL MATERIAL SHALL BE COMPACTED TO 98% SPMDD MIN. TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, UNLESS 1. OTHERWISE NOTED. ALL SERVICES AND APPURTENANCES SHALL BE PLACED ON UNDISTURBED GROUND AND BACKFILLED WITH APPROVED MATERIAL.
- BACKFILL FOR ALL SERVICES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH OPSD 802.10.
- ALL GRASSED AND PAVED SURFACES SHALL BE GRADED PER CITY OF WINDSOR SPECIFICATIONS: GRASSED AREAS: 2.0% MIN. FOR PLAY FIELDS, 1.5% MIN FOR ALL OTHER AREAS; 5% MAX. 4.

--- Slope as specified Varies Note BOULEVARD sidewalk 2 to 8% Subgrade or granular base as specified 125mm R5 ----Note 1 TYPICAL SECTION - Expansion Curb and gutter joint material DUMMY JOINT (OPTIONAL) BOULEVARD R0.5m ramp - 1.5m -Expansion joints Sidewalk bay CONTRACTION JOINT Dummy -joints Typ Contraction— joints, Typ JOINT LAYOUT -- 12mm expansion joint material EXPANSION JOINT NOTES: I Sidewalk thickness at residential driveways and adjacent to curb shall be 150mm. At commercial and industrial driveways, the thickness shall be 200mm. 2 Sidewalk width shall be wider when specified. 3 This OPSD shall be read in conjunction with OPSD 310.030, 310.031, 310.032, 310.033 and 310.039. A All dimensions are in millimetres unless otherwise shown. ONTARIO PROVINCIAL STANDARD DRAWING CONCRETE SIDEWALK OPSD 310.010









- P1 8" CONCRETE MASONRY UNITS WITH
 - BULLNOSE EXTERIOR CORNERS HEIGHT: 8" ABOVE TRUSS BOTTOM CORD U.O.N

 O^{A}

 \square

10'-4"

 $\langle \uparrow \rangle$

P

W1 SEE TYPICAL WALL SECTION

LEGEND:

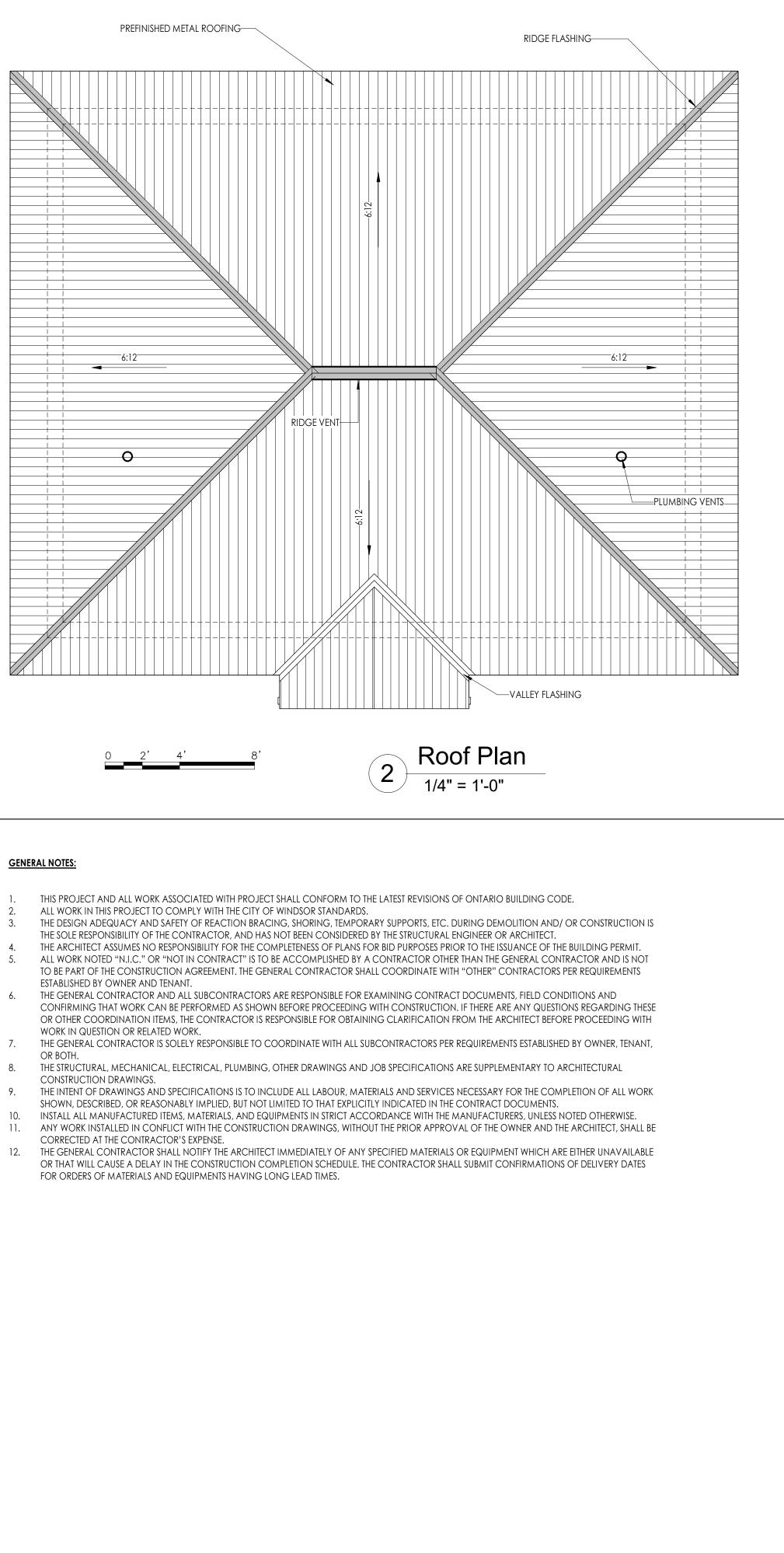
POT LIGHT ON OCCUPANCY SENSOR EXHAUST FAN OR REGISTER VINYL CEILING CEILING ELEVATION

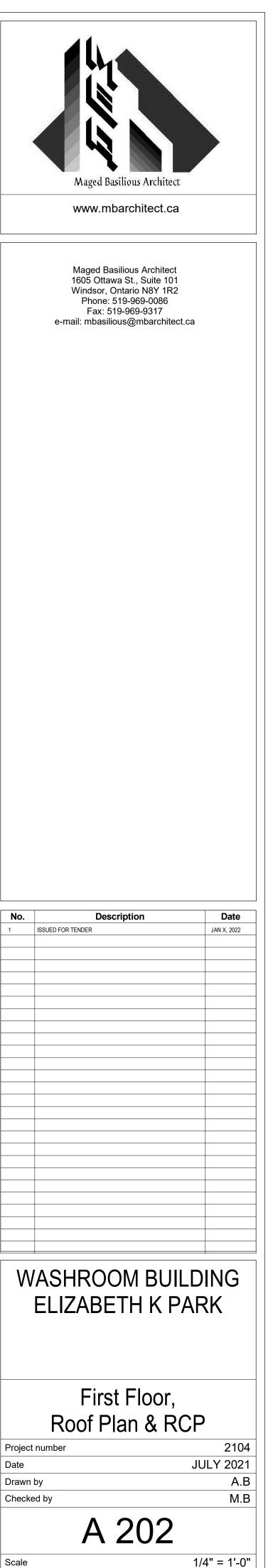
EMERGENCY LIGHT

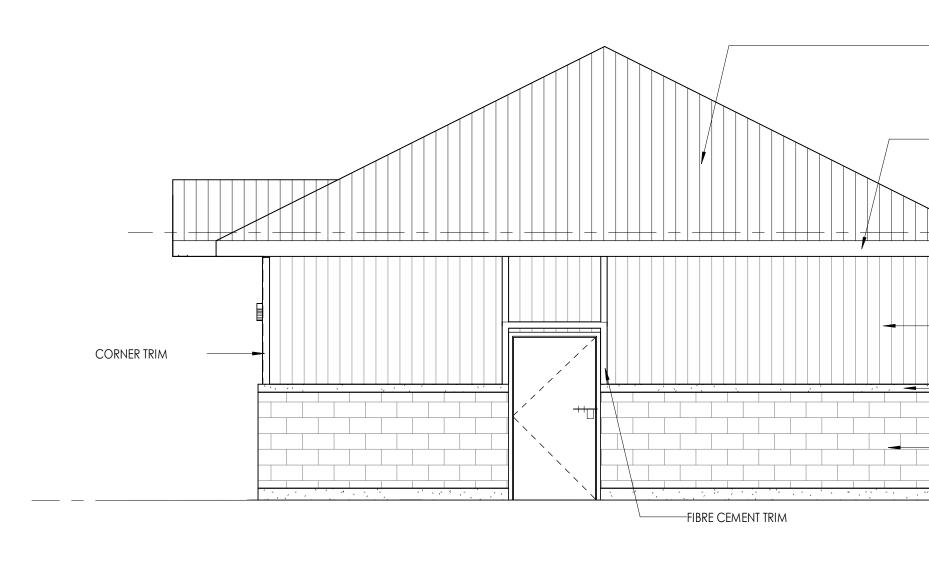
EMERGENCY LIGHT / EXIT COMBO

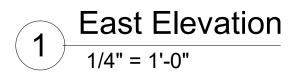
CEILING GENERAL NOTES:

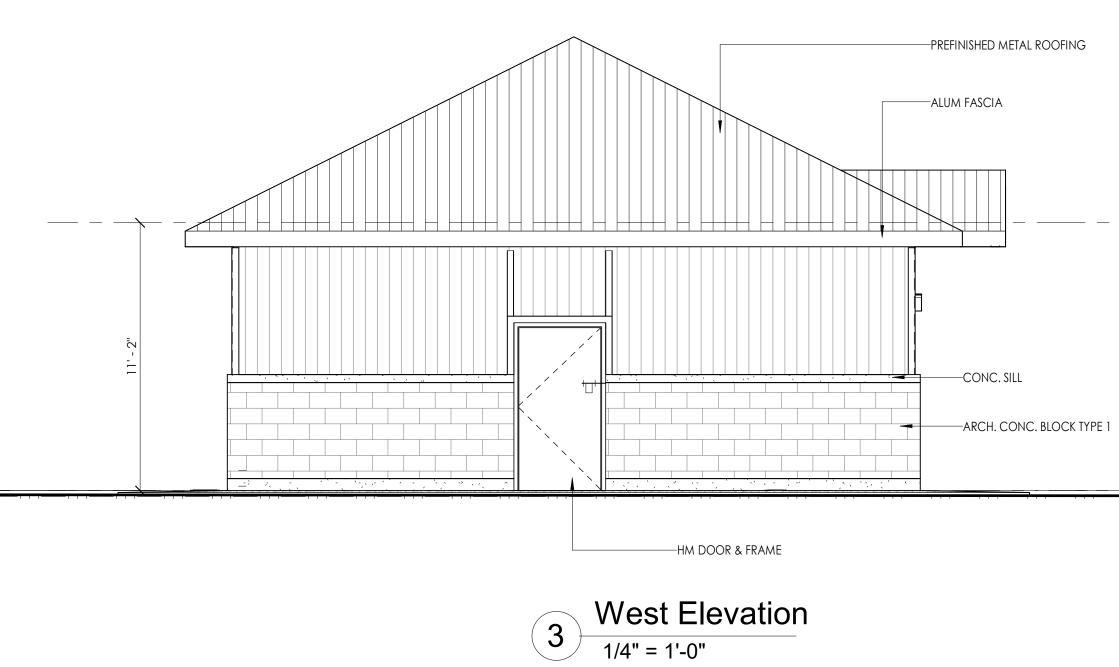
- COORDINATE CEILING HEIGHT WITH OTHER DISCIPLINES.
- CEILING HEIGHTS ARE MEASURED FROM FINISHED FLOOR LINE., U.O.N. REFER TO REFLECTED CEILING PLANS FOR CEILING LAYOUTS AND FIXTURE LOCATIONS & COORDINATE WITH M.E.P. IN CASE OF CONFLICT, RCPS TAKE PRECEDENCE. SEE ELECTRICAL FOR SPECIFIC LIGHT FIXTURE TYPE DESIGNATION.
- PAINT ALL SURFACES, PIPES AND EQUIPMENT IN EXPOSED CEILINGS COLOUR: 4 WHITE, U.O.N. LOCATE M.E.P. COMPONENTS REQUIRING ACCESS AT ACCESSIBLE CEILING AREAS
- TO THE GREATEST EXTENT POSSIBLE. WHERE CEILINGS ARE INACCESSIBLE, PROVIDE ACCESS PANELS AS REQUIRED.
- SOME M.E.P. COMPONENTS, ELECTRICAL DEVICES AND PLUMBING DEVICES MAY NOT BE SHOWN. REFER TO M.E.P. DRAWINGS. INSTALL FIRE RATED ACCESS PANELS/ DOORS AT FIRE RATED CEILINGS.
- COORDINATE W/ M.E.P. DRAWINGS.
- PROVIDE VERTICAL CEMENT BOARD AT ALL CEILING TRANSITIONS, U.O.N. RETURN AIR PLENUMS THROUGHOUT: ALL MATERIALS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NO MORE THAN 50.

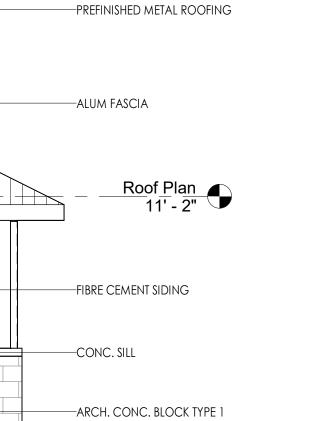




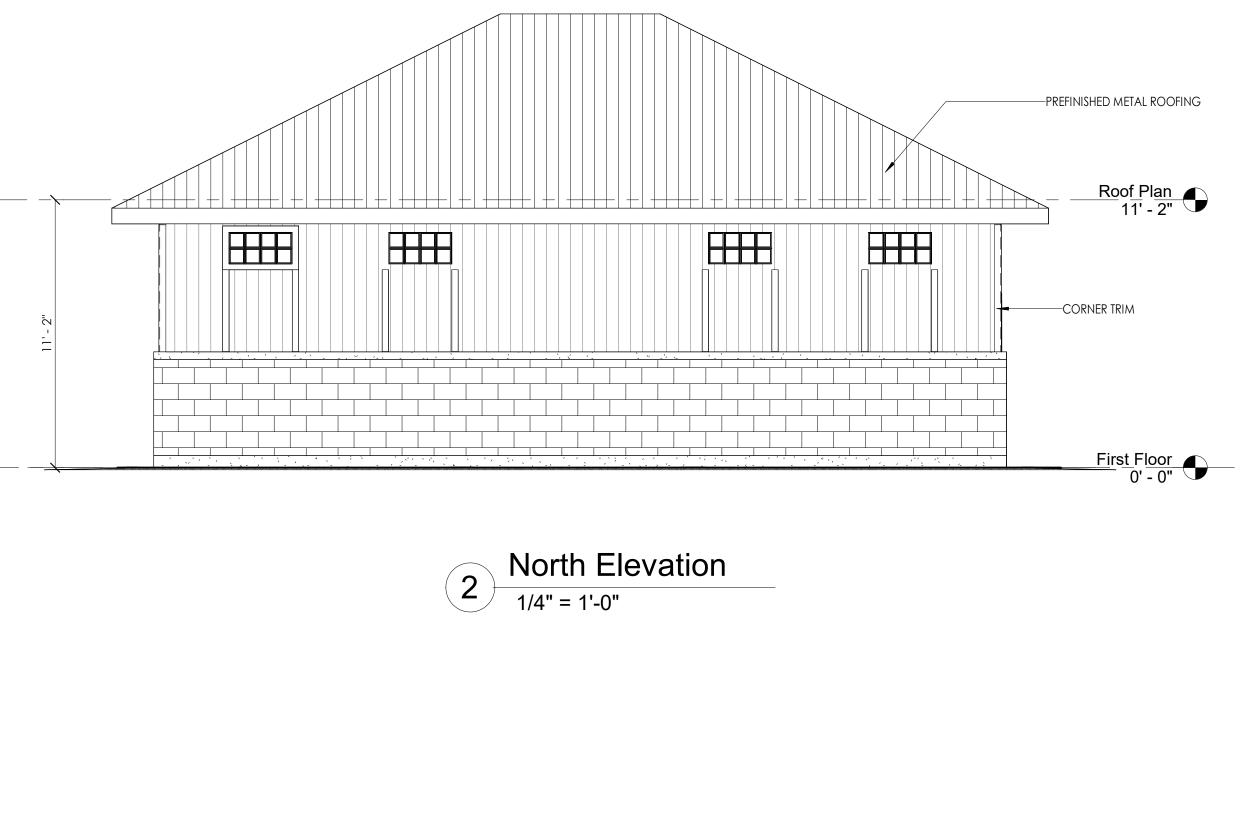


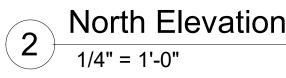




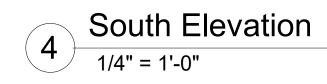


First Floor 0' - 0"

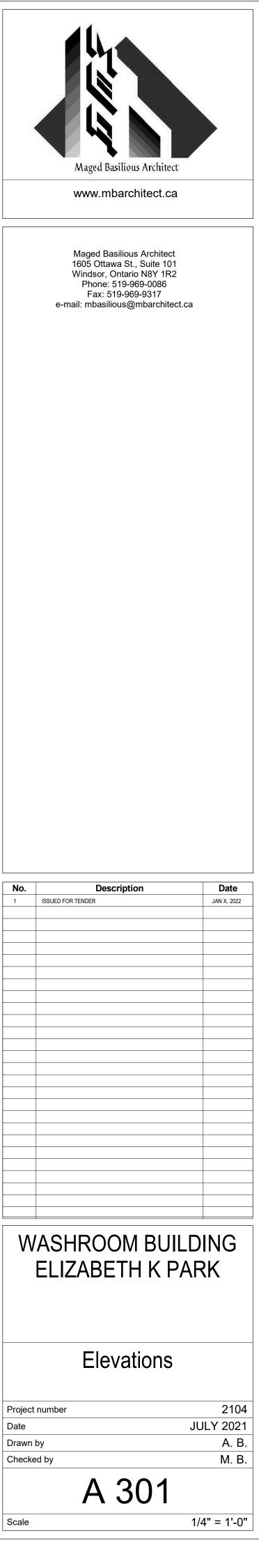


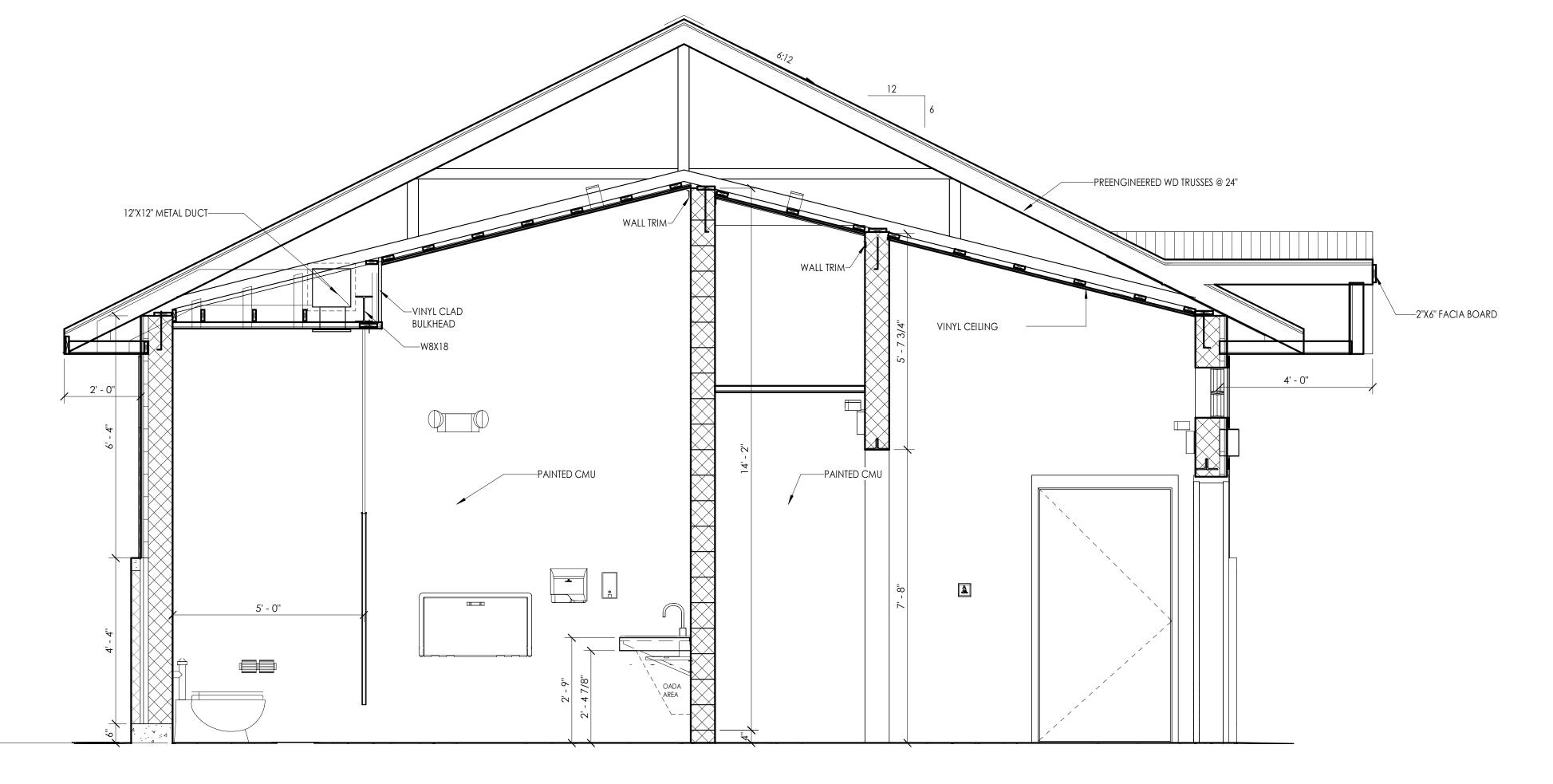






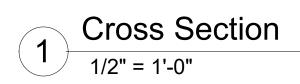
[—] Aluminum Letters By Gemini Incorporated 8" High, 1" Deep, Stud Mount Font: Times New Romans

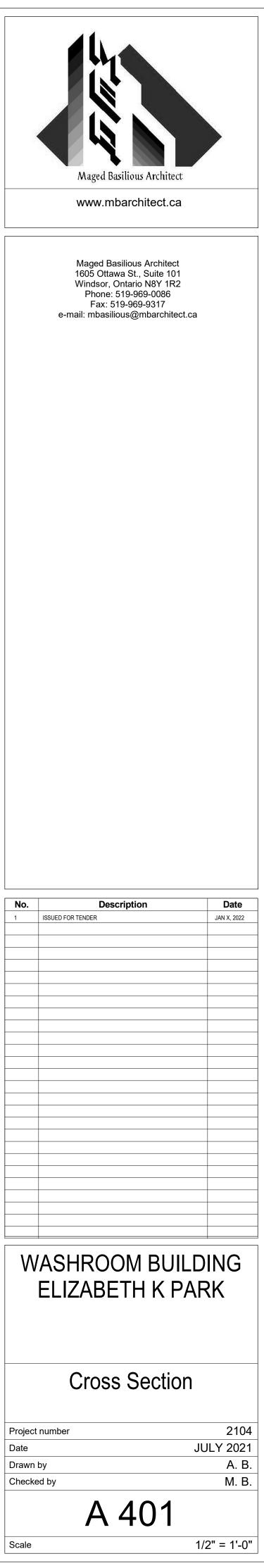




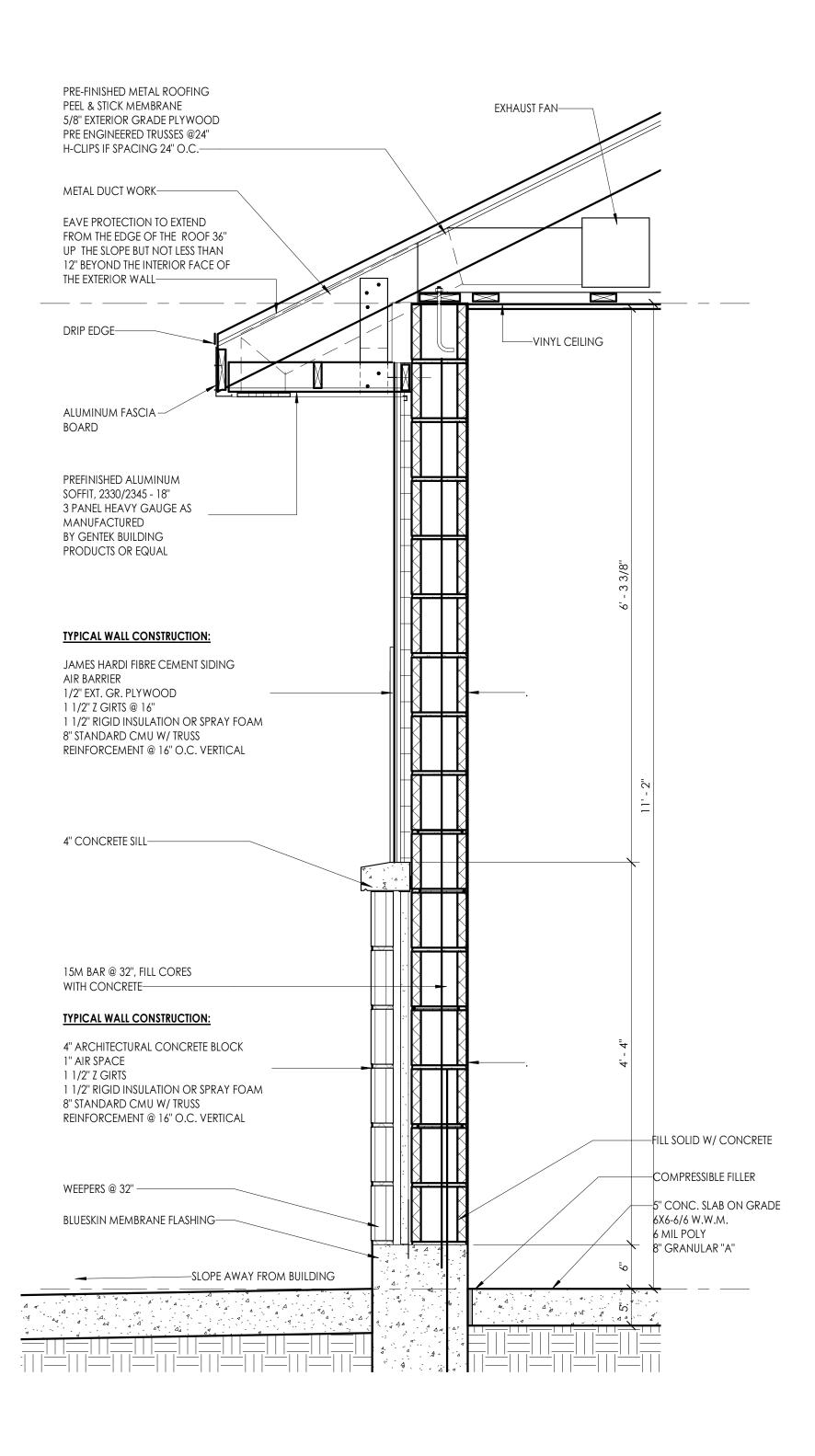
GENERAL NOTES:

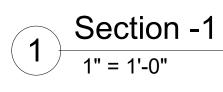
1- RUN ALL CONDUITS, PIPES AND SERVICES INSIDE WALLS 2- RUN ALL DUCTWORK ABOVE CEILINGS



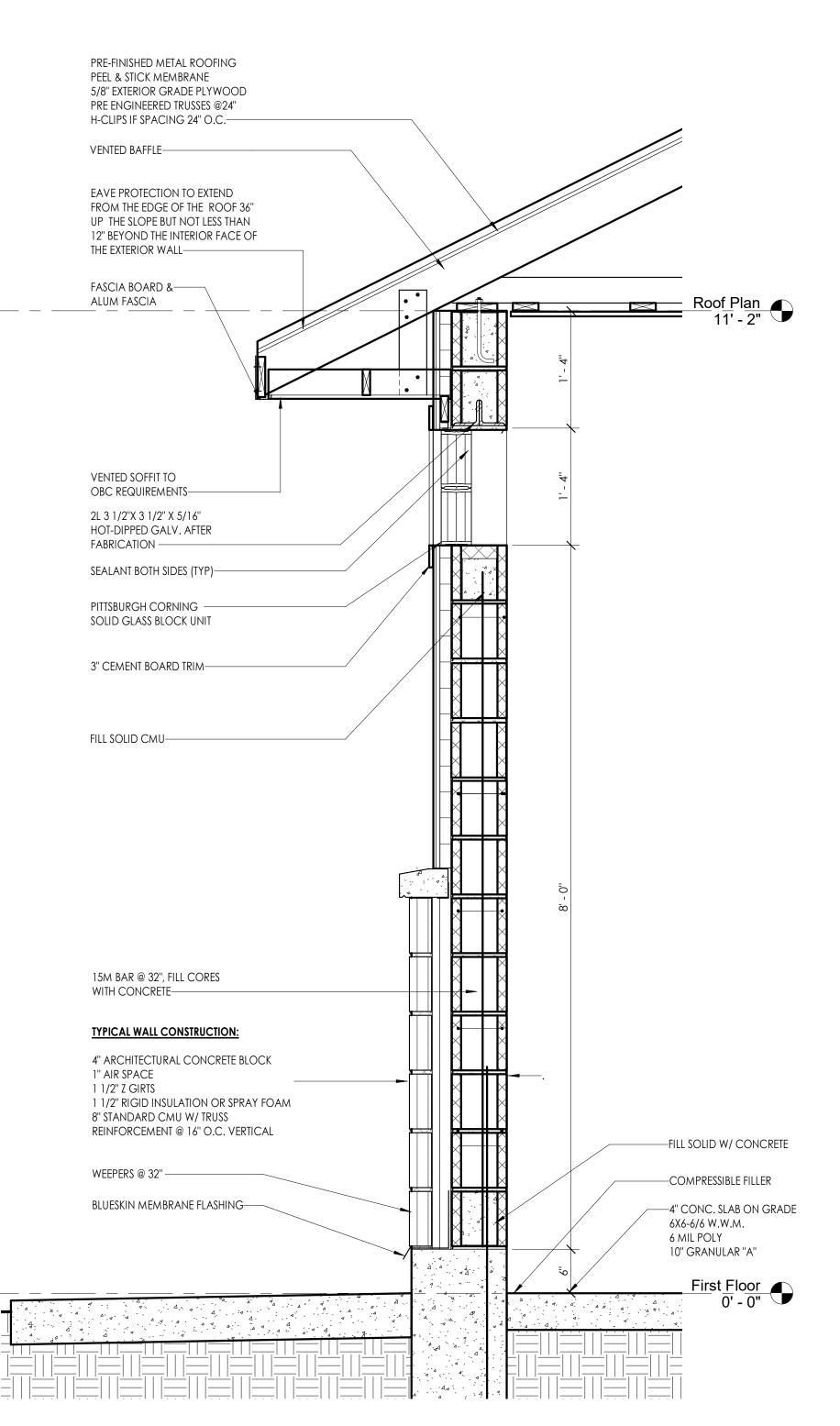


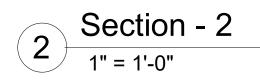
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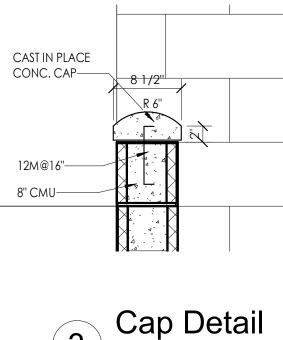




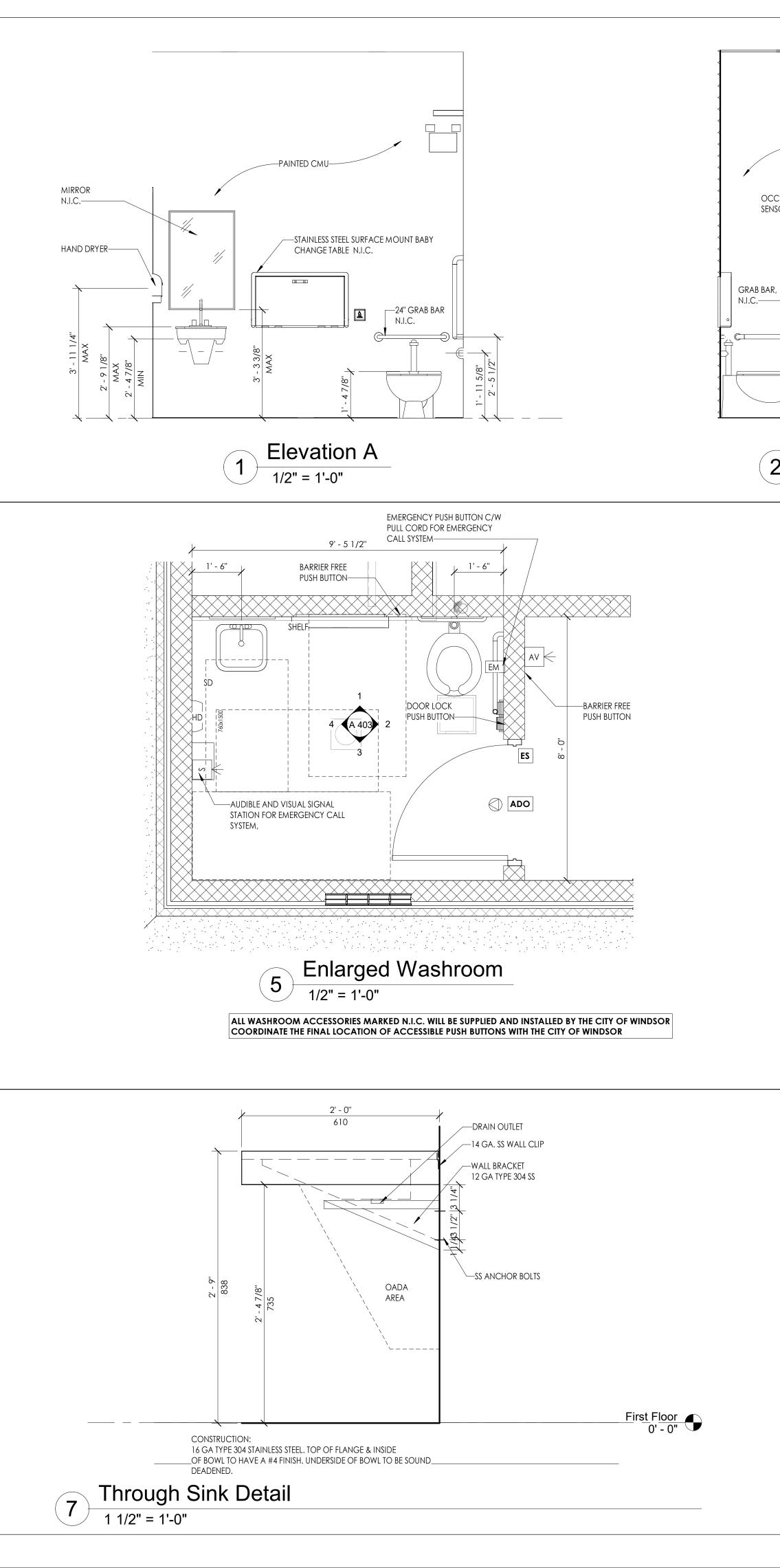
12M@16"-8" CMU—

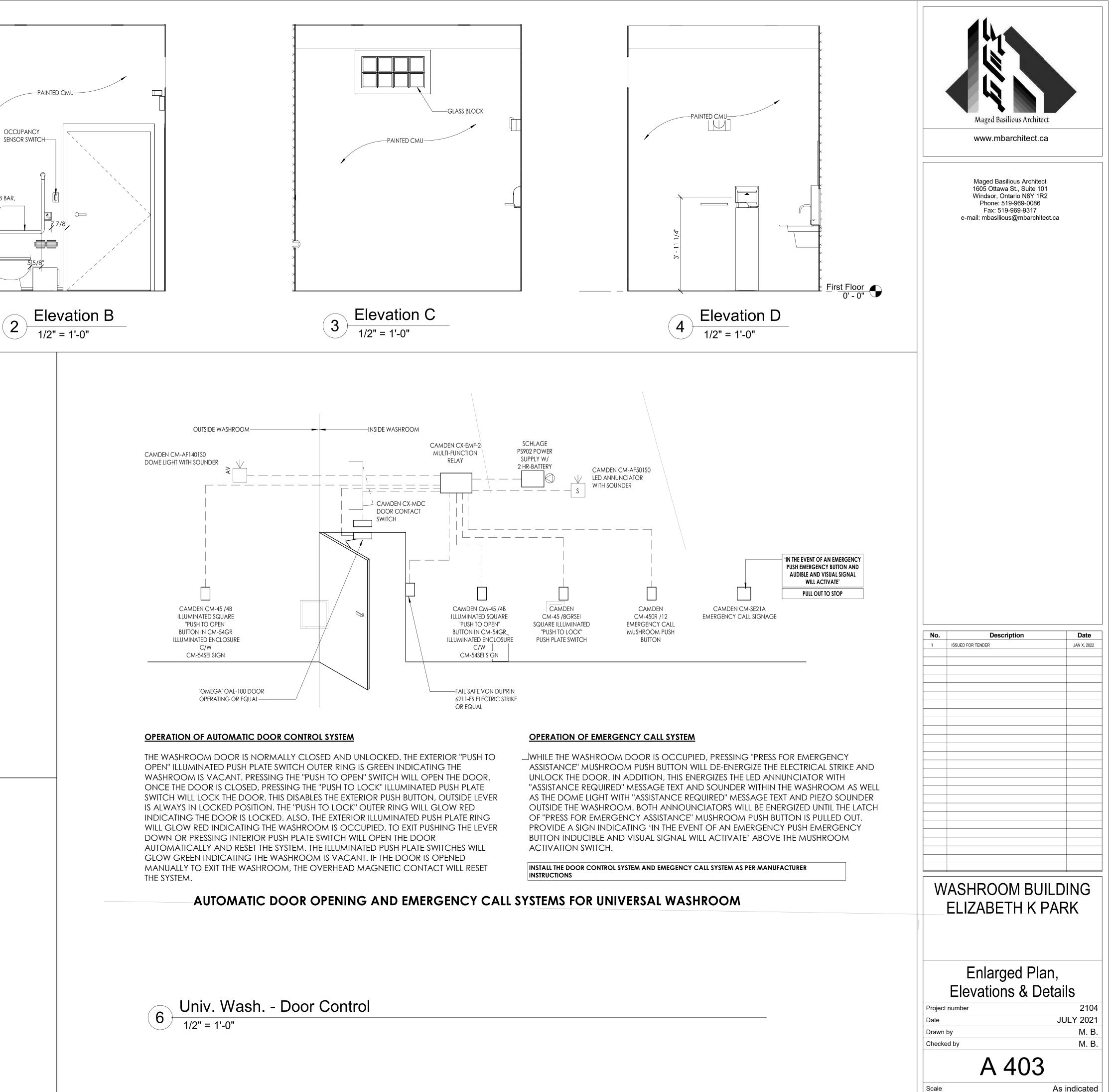
3





1" = 1'-0"



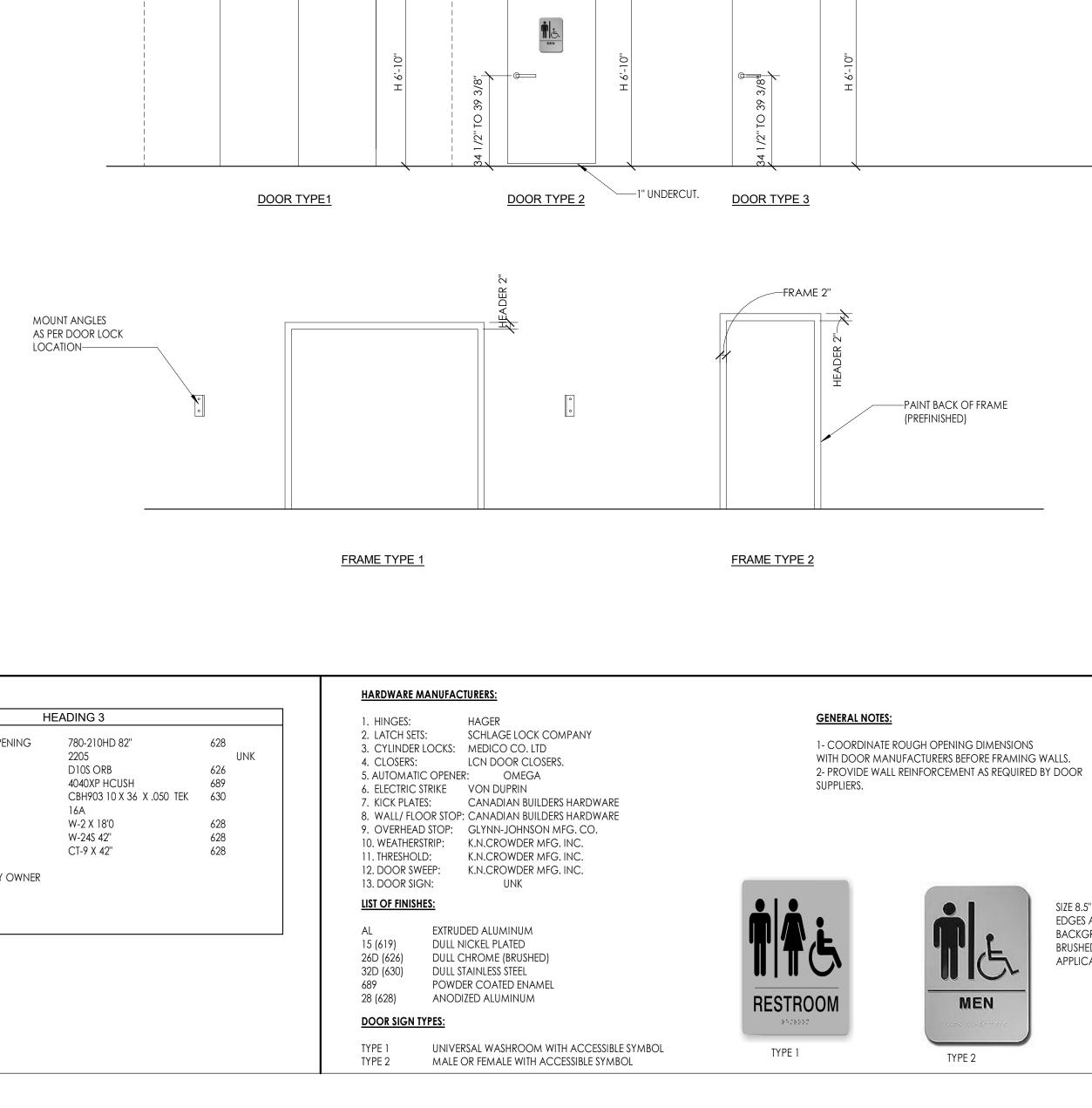


As indicated

	Room Finish Schedule							
Room				Wall	Finish / Colour			
Number	Room Name	Floor Finish	North Wall	West Wall	South Wall	East Wall	Ceiling	Comments
01	LOBBY	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
02	UNIVERSAL WS A	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
03	EQUIPMENT RM	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	EXPOSED TRUSSES	
04	WOMEN'S WASHROOMS	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
05	MEN'S WASHROOMS	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	
06	ELECTRICAL RM	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	EXPOSED TRUSSES	
07	UNIVERSAL WS B	EPOXY COATING	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITY	EPOXY COATING / ANTIGRAFFITI	EPOXY COATING / ANTIGRAFFITI	PVC PANES	

Door Schedule								
			Door			Frame		
Door		Door			Frame		Frame	
Number	Door Size	Туре	Material	Finish	Material	Finish	Туре	Hardware
D01	6'-4'' x 6'-10''	6		PREFINISHED	НМ	PREFINISHED	1	1
D02	3'-6'' x 6'-10''	5	HM	PREFINISHED	HM	PREFINISHED	2	2
D03	3'-6'' x 6'-10''	4	HM	PREFINISHED	HM	PREFINISHED	2	3
D04	3'-6'' x 6'-10''	4	HM	PREFINISHED	HM	PREFINISHED	2	3
D05	3'-6" x 6'-10"	5	НМ	PREFINISHED	НМ	PREFINISHED	2	2

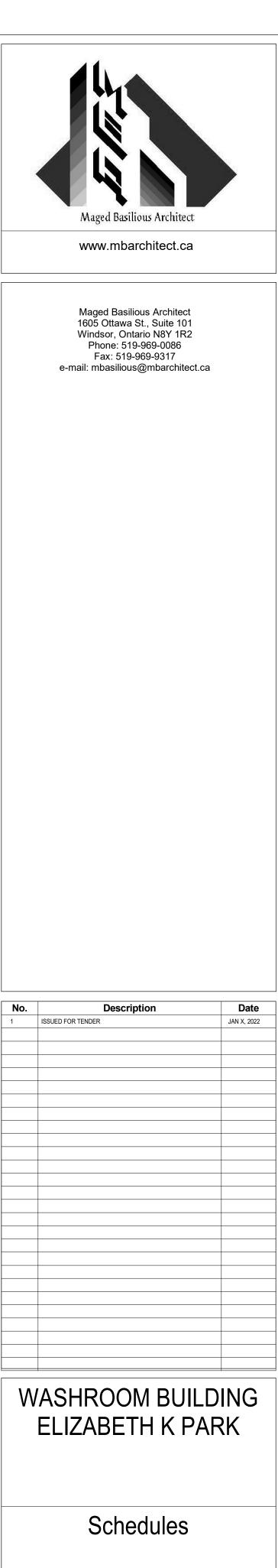
HEADING 1				HEADING 2			
 2 ROTON HINGE 780-210HD 82" 180° OPENING 2 SURFACE BOLT 2 DEADBOLT B660P MOUNT @ 54" A.F.F. 1 SET - WEATHERSTRIP W-2 X 21'0 2 DOOR SWEEP W-24S 42" 1 THRESHOLD CT-10 X 84" 2 METAL ASTRAGAL BY DOOR SUPPLIER MOUNT SECOND DEADBOLT ON INACTIVE LEAF 48" A.F.F. TO LOCK OPEN DOOR AT 180* 	628 8031 626 628 628 628	UNK SCH KNC KNC	1 ROTON HINGE 180° OPENING 1 STOREROOM LOCK 1 AUTO OPERATOR 1 ELECTRIC STRIKE 1 KICKPLATE 1 WALL STOP 1 SIGN * REFER TO ELECTRICAL DRAWINGS REQUIREMENTS	780-210HD 82" - ND80PD RHO - 'OMEGA' OAL-100 6211-FS CBH903 10 X 44 X .050 TEK - 145 15 AKLP-63 SYMBOL FOR COORDINATION AND ADD	l	UNK	1 ROTON HINGE 180° OPENIN 1 PADBOLT 1 PASSAGE SET 1 SURFACE CLOSER 1 KICKPLATE 1 BLOCKER PLATE 1 WEATHERSTRIP 1 DOOR SWEEP 1 THRESHOLD PADLOCK IS SUPPLIED BY OV



- - - -

GENERAL NOTES:

ALL MATERIALS AND WORKMANSHIP TO BE PREMIUM QUALITY. ALL FINISHES TO MEET FLAME-SPREAD RATING AND SMOKE 2-CLASSIFICATION OF ONTARIO BUILDING CODE.



SIZE 8.5" HX 7" W, 1/4" THICK ALUMINUM PLAQUE WITH PAINTED EDGES AND SINGLE LINE BORDER. BRAILLE AND TACTILE. SAND BACKGROUND. BACKGROUND COLOUR BLACK - RAISED INFORMATION BRUSHED ALUMINUM. BLIND MOUNT STANDARD. FOR INDOOR APPLICATION, DOUBLE SIDED TAPE.

Project number Date Drawn by Checked by

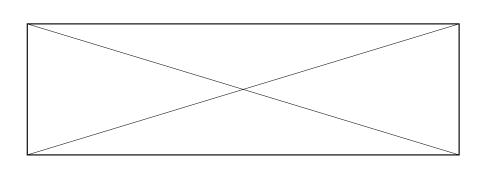
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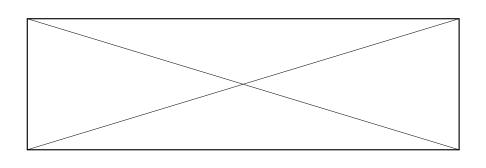
2104 JULY 2021 J. R. M. B.

GRAY OWL

EPOXY FLOOR - W/FLAKES BENJAMINE MOORE GRAY OWL OR MATCHING SHERWIN WILLIAMS



PREFINISHED METAL ROOFING



TBD

DOORS AND FRAMES

SHERWIN WILLIAMS COLOUR: POPCORN SW 7674



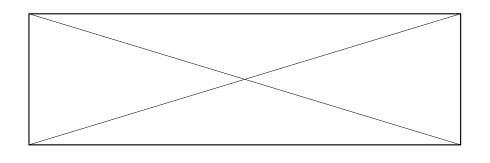
<u>EPOXY WALL</u> SHERWIN WILLIAMS COLOUR: CASA BLANCASW 7571



ARCHITECTURAL CONCRETE BLOCK: TYPE 1: SPLIT FACE COLOUR SANDSTONE



TOILET PARTITIONS 833 TRICON BLACK ANTI GRAFFITI

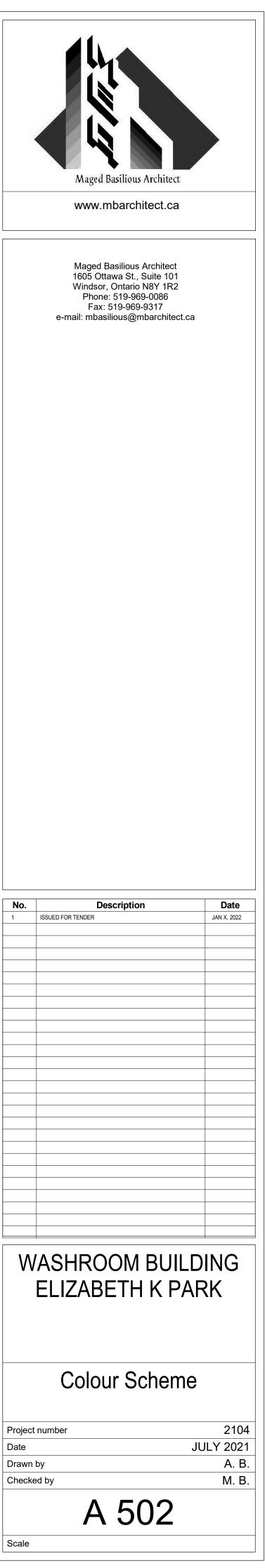


SOFFIT AND FASCIA COLOUR



WHITE OR LIGHT GREY

THIS IS A PROPOSED COLOUR SCHEME COORDINATE FINAL COLOURS WITH OWNER BEFORE ORDERING ANY MATERIALS



GENERAL NOTES:

- ALL WORK IN THIS PROJECT SHALL BE ACCORDING TO THE CITY OF WINDSOR STANDARDS.
- REFER TO SITE GRADING & SERVICING SITE PLANS FOR ALL EXISTING & NEW LOCATIONS OF SERVICES AND ENTRY OF SERVICES INTO THE BUILDING ENVELOPE. ALL MECHANICAL & ELECTRICAL INFORMATION INDICATED ON ARCHITECTURAL SITE DWG IS FOR GENERAL REFERENCE AND CO-ORDINATION ONLY.
- REFER TO SITE GRADING PLAN FOR PROPOSED FINAL FINISH GRADE ELEVATIONS AND DRAINAGE SLOPES.
- EXISTING TREES TO REMAIN TO BE PROTECTED DURING CONSTRUCTION. REFER TO LANDSCAPE SPECIFICATIONS AND DRAWINGS. ALL WORK INVOLVED IN THE CONSTRUCTION, RELOCATION, REPAIR OF MUNICIPAL SERVICES FOR THE PROJECT SHALL BE TO THE
- SATISFACTION OF THE CITY OF WINDSOR. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FORM THE REQUIREMENTS TO OBTAIN THE VARIOUS 6.
- PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: BUILDING PERMIT, ROAD CUT PERMITS, APPROACH APPROVAL PERMITS, COMMITTEE OF ADJUSTMENTS, SEWER AND WATER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS (IF REQUIRED). THE APPLICANT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE ENGINEERING SERVICES DEPARTMENT, CITY OF
- WINDSOR, FOR THE PURPOSES OF VEHICULAR ACCESS TO THE PROPERTY, (ENTRANCE PERMIT), AND SERVICING EXCAVATIONS WITHIN THE MUNICIPAL ROAD ALLOWANCE, (ROAD OCCUPANCY PERMIT). PRIOR TO THE COMMENCEMENT OF ANY WORKS ON THIS SITE, HOARDING SHALL BE INSTALLED AROUND THE PERIMETER AS PER GOOD 8.
- CONSTRUCTION AND SITE SAFETY PRACTICE OR AS DETERMINED BY THE MANAGER, DEVELOPMENT ENGINEERING, UNTIL SUCH TIME AS OTHERWISE DIRECTED BY THE MANAGER, DEVELOPMENT ENGINEERING. SITE SILTATION CONTROL MEASURES/FENCING SHALL BE ERECTED FROM COMMENCEMENT OF THE PROJECT THROUGHOUT THE DURATION 9 OF THE PROJECT AS PER OPSD 219.110.

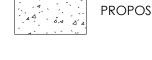
SEDIMENT CONTROL NOTES:

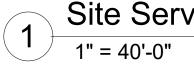
- PROTECT ALL EXPOSED SURFACES AND CONTROL RUNOFF DURING CONSTRUCTION.
- ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE STARTING CONSTRUCTION AND REMAIN IN PLACE UNTIL RESTORATION IS COMPLETE.
- MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION.
- ALL COLLECTED SEDIMENT MUST BE DISPOSED OFF AT AN APPROVED LOCATION. MINIMIZE THE AREA DISTURBED DURING CONSTRUCTION.
- ALL DEWATERING MUST BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE (TERRAFIX 270R OR
- EQUAL).
- KEEP ALL SUMPS CLEAN DURING CONSTRUCTION. PREVENT WIND-BLOWN DUST.
- STRAW BALES TO BE USED IN LOCALIZED AREAS AS SHOWN AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR WORKS 10 WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
- STRAW BALES TO BE TERMINATED USING ROUNDING BALES TO CONTAIN AND FILTER RUNOFF. 12. OBTAIN APPROVAL FROM UTRCA (UPPER THAMES RIVER CONSERVATION AUTHORITY) PRIOR TO CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
- 13. ALL SILT FENCING AND DETAILS ARE AT THE MINIMUM TO BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY OF NATURAL
- RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES. 14. ALL OF THE ABOVE NOTES AND ANY SEDIMENT AND EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

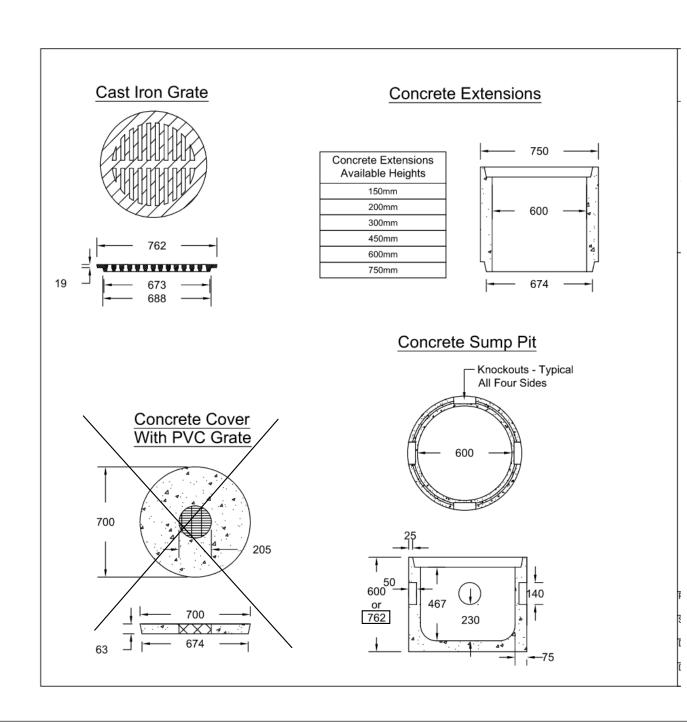
GRADING AND DRAINAGE:

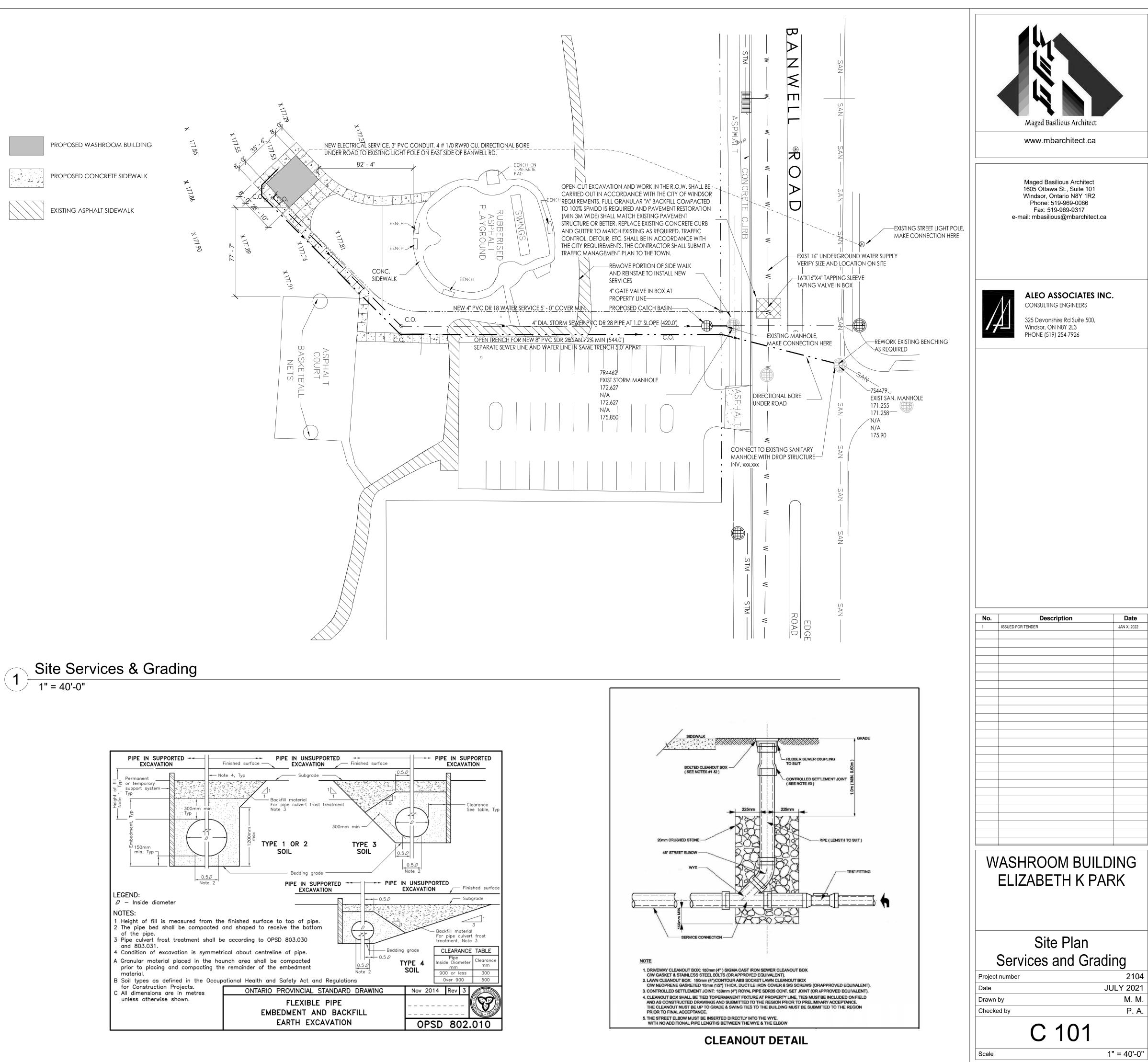
- APPROVED FILL MATERIAL SHALL BE COMPACTED TO 98% SPMDD MIN. TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, UNLESS 1 OTHERWISE NOTED. ALL SERVICES AND APPURTENANCES SHALL BE PLACED ON UNDISTURBED GROUND AND BACKFILLED WITH APPROVED MATERIAL.
- BACKFILL FOR ALL SERVICES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH OPSD 802.10.
- ALL GRASSED AND PAVED SURFACES SHALL BE GRADED PER CITY OF WINDSOR SPECIFICATIONS: GRASSED AREAS: 2.0% MIN. FOR PLAY FIELDS, 1.5% MIN FOR ALL OTHER AREAS; 5% MAX.

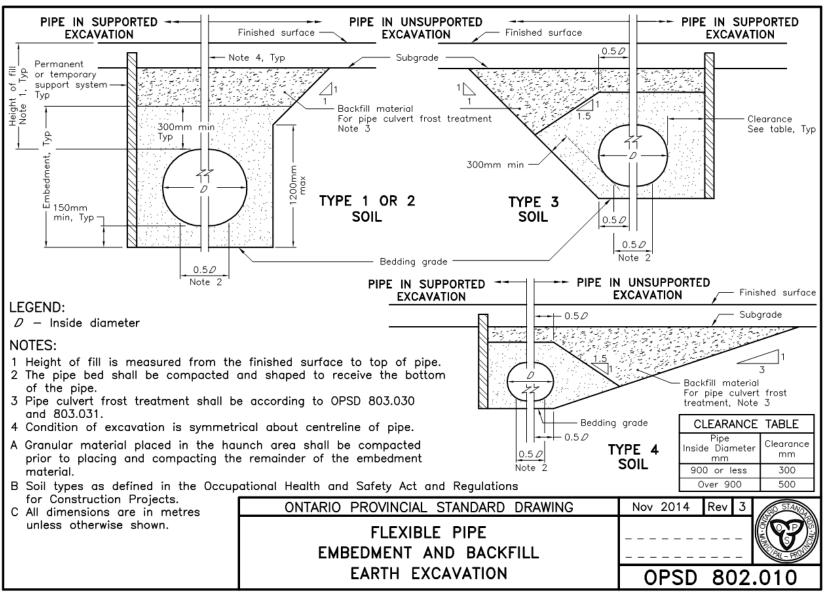


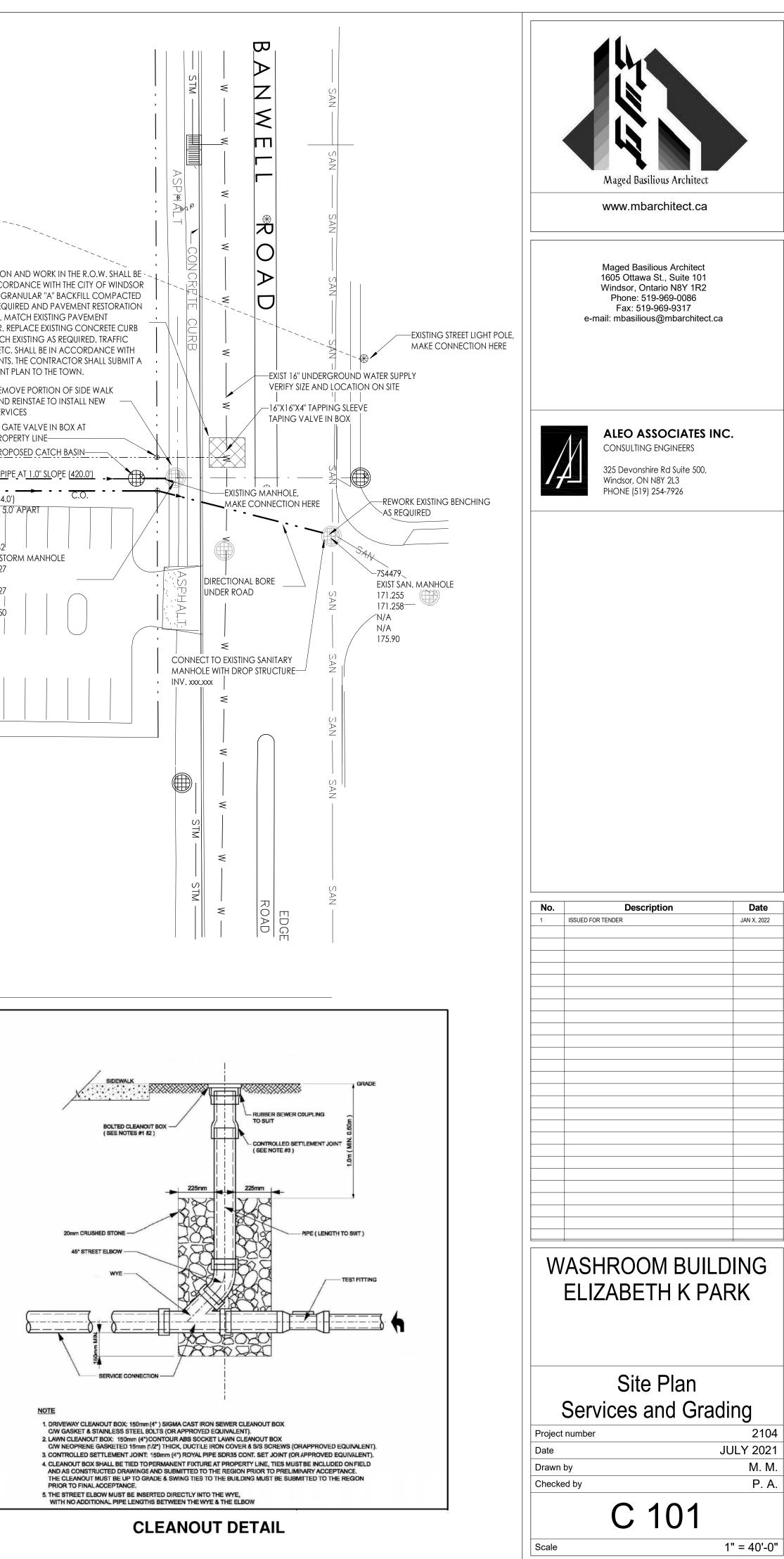


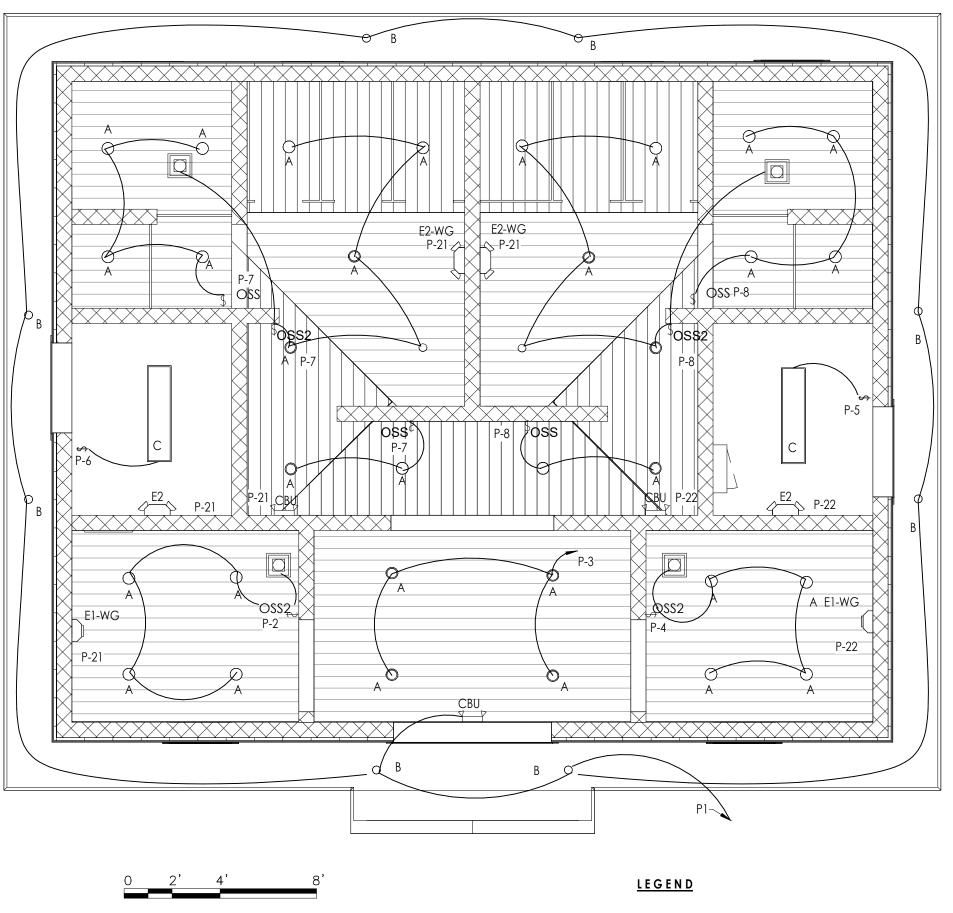


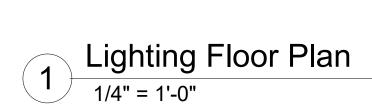












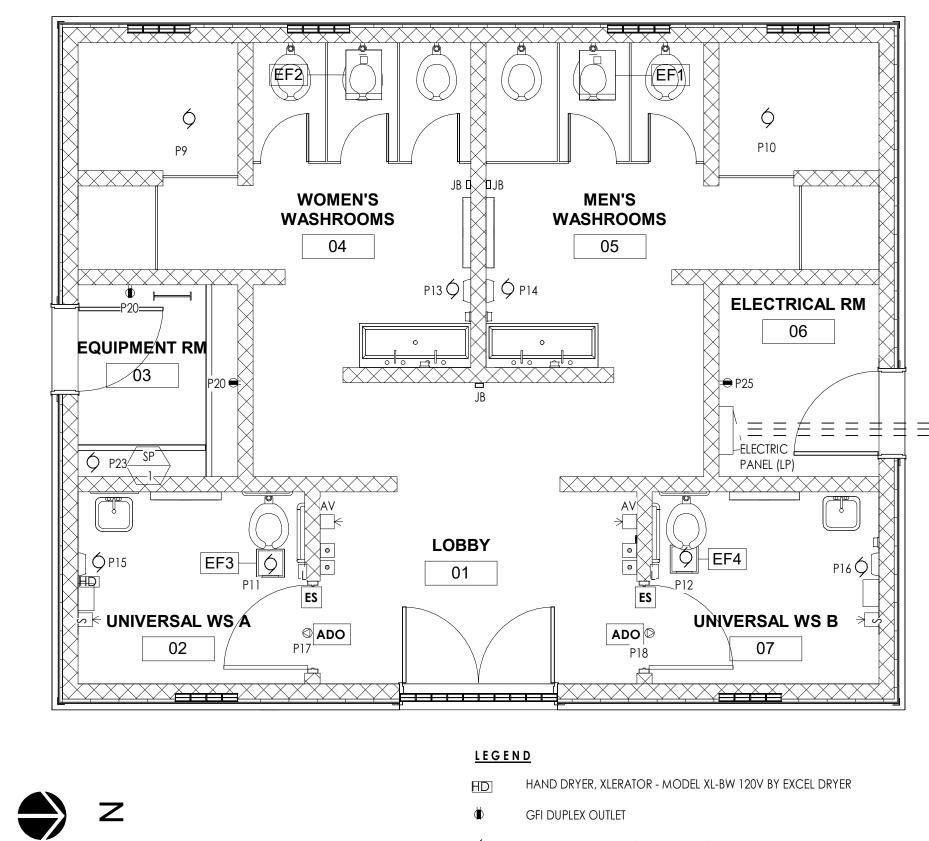
OCCUPANCY SENSOR: SENSORSWITCH, WSD PDT SA WH LT [⊅]OSS ^{\$}OSS2 OCCUPANCY SENSOR: SENSORSWITCH, WSD PDT 2P SA WH LT OCCUPANSY SENSOR: SENSORSWITCH, CMR PDT 10 LT (NOT USED) OS2 OCCUPANSY SENSOR: SENSORSWITCH, CMR PDT 10 2P LT (NOT USED) EXHUST FAN, SEE MECHANICAL

PHOTOCELL

OS

				Lighting Fixture Schedule			
Type Mark	Count	Manufacturer	Model	Description	Lamp	Wattage	Image
A	38	Lithonia Lighting	6BPMW HL LED 40K 90CRIL L7X3LED T24	6" 4000K CCT, 950 lumens. 120v Matte White LED Module, 90CRI	4000K LED	15.26 W	
В	8	Lithonia Lighting	4BEMW LED 40K L3LED T24	4" MATTE WHITE BAFFLE LED MODULE 4000KCCT, 80 CRI	LED	10.80 W	
С	2	Lithonia Lighting	SBL4 6000LM 80CRI 40K NODIM MLVT		4000K LED	32.00 W	1
CBU	3	Stanpro Lighting	PRMS-2L-WG	Stanpro Lighting Systems Emerg. 6V 36 Watt Combo Unit Exit Sign/2 heads	3 WHITE LEDS LUMEN OUTPUT = 310 LMS		
E1-WG	2	Stanpro Lighting	N1-6-12-3W LJ WH/ WG	Stanpro Lighting Systems Emerg. Remote Heads With LED Lens Optics	3 WHITE LEDS LUMEN OUTPUT = 310 LMS	1.90 W	
E2	2	Stanpro Lighting	N2-6-12-3W LJ WH	Stanpro Lighting Systems Emerg. Remote Heads With LED Lens Optics	3 WHITE LEDS LUMEN OUTPUT = 310 LMS	3.80 W	
E2-WG	2	Stanpro Lighting	N2-6-12-3W LJ WH	Stanpro Lighting Systems Emerg. Remote Heads With LED Lens Optics	3 WHITE LEDS LUMEN OUTPUT = 310 LMS	3.80 W	03.8

Grand total: 57





- GFI DUPLEX OUTLET
- ELECTRICAL MOTOR (EXHAUST FAN) 6
- DEVICE POWER CONNECTION \bigcirc
- DJB
 4" OCTAGON JUNJTION BOX 11'-0" A.F.FL.

2 First Fl. - Power & Systems

VOLTS: 120 / 208 V Phases: 3 Wires: 4 Mains Rating: 100a	ELBO MAIN BRE			HEDULE DLT ON)	LOCATION: ELECTRICAL ROOM	
LOAD DESCRIPTION CORRIDOR LIGHTS	BRKR SIZE	CIR. NO.	BUS ABC.	CIR. NO.	BRKR SIZE	LOAD DESCRIPTION
EXTERIOR SOFFIT LIGHTS	15A	1	•	2	15A	UNIV. WR A LIGHTS
LOBBY LIGHTS	15A	3		4	15A	UNIV. WR B LIGHTS
ELECTRICAL ROOM LIGHTS	15A	5	⊢⊢∔	6	15A	Equipment room lights
MEN WR LIGHTS	15A	7	•	8	15A	WOMEN WR LIGHTS
EXHAUST FAN EF-1	15A	9		10	15A	EXHAUST FAN EF-2
EXHAUST FAN EF-3	15A	11	⊢⊢♦	12	15A	EXHAUST FAN EF-4
WOMEN HAND DRYER HD	20A	13	→	14	20A	MEN HAND DRYER HD
UNIV. WR A HAND DRYER	20A	15	⊢	16	20A	UNIV. WR B HAND DRYER
UNIV. WR A DOOR OPERATOR SYSTEM	15A	17	⊢ ⊢ ⊢	18	15A	UNIV. WR B DOOR OPERATOR SYSTEM
EQUIPMENT ROOM RECEPATCLES	15A	19	↓ ↓ ↓	20	15A	EQUIPMENT ROOM RECEPATCLES
EMERGENCY / EXIT LIGHTS	15A	21		22	15A	EMERGENCY / EXIT LIGHTS
SUMP PUMP	15A	23		24	15A	EXIT LIGHTS
ELECTRICAL ROOM RECEPATCLES	15A	25	→	26	15A	
SPARE	15A	27		28	15A	
SPARE	15A	29	⊢⊢∔	30	15A	
SPARE	15A	31	•	32	15A	
SPARE	15A	33		34	15A	
SPARE	15A	35	⊢⊢♦	36	15A	
SPARE	15A	37	•	38	15A	
SPARE	15A	39		40	15A	
SPARE	15A	41	+	42	15A	
NOTES:			TOTALS			

NOTES:

1- CONTRATOR TO BALANCE PANEL LOADS.

2- PANEL DIRECTORY TO BE TYPED NOT HAND WRITTEN 3- ALL LIGHTING CIRCUITS TO BE CONNECTED TO TIMERS IN ELECTRICAL ROOM

LOCATION:	
EUG/(THON)	ROO

: =

Maged Basilious Architect www.mbarchitect.ca Maged Basilious Architect 1605 Ottawa St., Suite 101 Windsor, Ontario N8Y 1R2 Phone: 519-969-0086 Fax: 519-969-9317 e-mail: mbasilious@mbarchitect.ca No. Description Date 1 ISSUED FOR TENDER JAN X, 2022 WASHROOM BUILDING ELIZABETH K PARK Lighting & Power Plans & Schedules 2104 Project number JULY 2021 Date M.B. Drawn by JDH Checked by E 101

1/4" = 1'-0"

Scale

ELECTRICAL SPECIFICATIONS

<u>SCOPE OF WORK:</u> THIS CONTRACT SHALL INCLUDE THE SUPPLY OF ALL TOOLS, EQUIPMENT, LABOUR AND MATERIALS EXCEPT AS OTHERWISE NOTED. REQUIRED FOR COMPLETE INSTALLATION, TESTING AND PUTTING INTO PROPER OPERATION ALL WORK AS SHOWN AND DETAILED ON THE PLAN AND AS SPECIFIED HEREIN.

2. <u>GUARANTEE:</u>

CONTRACTOR SHALL GUARANTEE COMPLETE INSTALLATION AGAINST ANY DEFECTS IN WORKMANSHIP AND MATERIALS NOT DUE, IN THE OPINION OF THE OWNERS, FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF WORK. DEFECTS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNERS.

3. <u>CODES, PERMITS, FEES AND INSPECTIONS:</u>

THE WHOLE OF THE WORK SPECIFIED HEREIN AND ON THE DRAWINGS SHALL COMPLY STRICTLY TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ONTARIO ELECTRICAL CODE AS AMENDED TO DATE. THIS CODE AND ANY ADDITIONAL REQUIREMENTS EXCEEDING THE MINIMUM REQUIREMENTS OF THE CODE. THE DRAWING AND SPECIFICATIONS SHALL BE FOLLOWED.

BEFORE STARTING ANY WORK, SUBMIT THE REQUIRED NUMBER OF COPIES OF THE ELECTRICAL DRAWINGS AND SPECIFICATIONS TO THE ELECTRICAL SAFETY INSPECTION AUTHORITY (ESA). FOR THEIR APPROVAL AND COMMENTS, AND MAKE ANY REQUIRED CHANGES AND ALTERATIONS REQUESTED.

PAY ALL FEES FOR EXAMINATION OF DRAWINGS AND SPECIFICATIONS. PREPARE AND SUBMIT ANY ADDITIONAL DRAWINGS WHICH MAY BE REQUIRED BY THE ESA. OBTAIN ALL PERMITS REQUIRED AND PAY ALL PERMITS AND INSPECTION FEES.

ARRANGE FOR INSPECTION OF ALL WORK BY THE INSPECTION AUTHORITY DEPARTMENT ON COMPLETION OF THE WORK, PRESENT TO THE OWNER THE FINAL UNCONDITIONAL CERTIFICATES OF APPROVAL.

4. ENGLISH/METRIC CONVERSION:

APPROPRIATE TRADE SECTION, OR AS INSTRUCTED.

IMPERIAL UNITS ARE USED IN THIS PROJECT. WHERE MEASURED VALUES DEPEND ON MANUFACTURED PRODUCTS OR MATERIALS, THE METRIC CONVERSION FROM IMPERIAL SYSTEM UNITS SHALL BE A CLOSE APPROXIMATION OF THE ENGLISH VALUE. THESE VALUES, OTHERWISE KNOWN AS "SOFT" CONVERSIONS, SHALL BE AS SPECIFIED IN APPROPRIATE TRADE SECTION, OR AS INSTRUCTED.

WHERE PRODUCTS OR MATERIALS ARE IDENTIFIED BY NOMINAL DIMENSIONS, METRIC VALUES SHALL BE CONVERTED TO ENGLISH SYSTEM SIZES AS SPECIFIED IN

5. <u>CO-ORDINATION:</u>

WORK OF EACH TRADE SECTION UNDER THIS DIVISION SHALL BE LAID OUT IN SUCH A MANNER THAT EACH UNIT DOES NOT CONFLICT WITH WORK UNDER OTHER TRADE SECTIONS OR DIVISION OF THIS SPECIFICATION.

PREPARE FILED DRAWINGS SHOWING SIZE AND LOCATION OF INSERTS, SLEEVES AND OPENINGS REQUIRED FOR PASSAGE OF CABLE, MAJOR CONDUITS, THROUGH WALLS, PARTITIONS, ROOFS.

CEILINGS, FLOORS AND STRUCTURAL MEMBERS, CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS, IF AVAILABLE, FOR SPECIFIC REQUIREMENTS. OPENINGS SHALL BE LOCATED RELATIVE TO GRID LINES AND ELEVATION DATA.

PREPARE DRAWINGS SHOWING SIZE AND LOCATION OF EQUIPMENT BASES AND ANCHORS PERTAINING TO THE WORK OF THIS DIVISION.

6. **PROTECTION OF WORK AND MATERIALS:**

PROTECT MATERIALS AND EQUIPMENT FROM DAMAGE, INCLEMENT WEATHER AND/OR EXTREME TEMPERATURES. PROVIDE ENCLOSURE, TARPAULINS, OR SPECIAL PROTECTION AS REQUIRED UNDER THE CIRCUMSTANCES.

WARRANT

WARRANT ALL EQUIPMENT AND MATERIAL SUPPLIED AND INSTALLED UNDER THIS DIVISION AGAINST DEFECTS, DEFICIENCIES IN EQUIPMENT DESIGN, MATERIALS AND WORKMANSHIP WHICH ARE NOT DETECTED PRIOR TO DATE OF SUBSTANTIAL PERFORMANCE OF THE SYSTEM, BUT WHICH MAY DEVELOP WITHIN (1) ONE YEAR AFTER SUCH ACCEPTANCE. MAKE GOOD ANY SUCH DEFECTS AND DEFICIENCIES AT NO CHARGE TO THE CONTRACT PRICE. PROVIDE EXTENDED WARRANTIES WHERE CALLED FOR.

INSERTS AND HANGERS:

PROVIDE AND INSTALL ALL INSERTS, HANGERS, ANCHORS AND SUPPORTS REQUIRED FOR ALL WORK TO BE INSTALLED UNDER THIS DIVISION.

9. ACCESSIBILITY

INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS BY ACCESS PANELS OR OTHER ACCEPTABLE MEANS.

10. <u>GROUNDING:</u>

PROVIDE ALL GROUNDING TO CONFORM WITH THE CANADIAN ELECTRICAL CODE AND THE LATEST GROUNDING INSTRUCTIONS OF THE INSPECTION AUTHORITY, WITH ANY FURTHER REQUIREMENTS AS NOTED HEREIN.

BOND ALL INTERIOR NON-ELECTRICAL METALLIC PIPING SYSTEMS TO THE ELECTRICAL SYSTEM GROUND INCLUDING, BUT NOT LIMITED TO, WATER SUPPLY, WASTE WATER AND GAS SYSTEMS.

GROUND ALL CONDUIT, AND ALL NON-CURRENT CARRYING METAL PARTS, EQUIPMENT CASES, FRAMES, BASES, BRACKETS, ETC.

11. CONDUIT INSTALLATION:

PROVIDE GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFIED OR REQUIRED BY CODE.

CONCEAL ALL CONDUIT EXCEPT IN SERVICES SPACES.

INSTALL ALL LOCK NUTS AND BUSHINGS TO ENSURE A SECURE MECHANICAL AND ELECTRICAL BOND. USE ERICKSON COUPLINGS IN LIEU OF RUNNING THREADS.

PROVIDE BUSHINGS ON THE ENDS OF ALL CONDUITS IN ENCLOSURES, BOXES, PANELS AND CABINETS, TO PROTECT THE CONDUCTOR INSTALLATION.

LAY OUT CONDUIT TO DRAIN FREE OF ALL MOISTURE.

KEEP CONDUIT NOT LESS THAN 6" (150MM) CLEAR OF STEAM PIPES, FLUES AND OTHER SUCH WORK.

SUPPORT CONDUITS FROM STRUCTURAL MEMBERS, SUPPORT SPACING TO BE IN ACCORDANCE WITH CODE REQUIREMENTS.

SUPPORT MULTIPLE RUNS OF CONDUIT ON CHANNEL OR ANGLE IRON WITH ROD HANGERS.

SECURE ALL CONDUITS IN PLACE WITH CONDUIT CLAMPS, T. & B.L. OR APPROVED EQUAL. PERFORATED PIPE STRAPS, WIRE LASHINGS, WOOD SCREWS OR NAILS ARE NOT ACCEPTABLE.

MAKE FIELD BENDS AND OFFSETS UNIFORM AND SYMMETRICAL WITHOUT FLATTENING CONDUIT. MINIMUM BENDING RADIUS SHALL BE TEN TIMES THE CONDUIT DIAMETER. REAM CONDUIT ENDS TO REMOVE BURRS AND SHARP EDGES. FIT CONDUIT STUBS WITH WATERPROOF PLASTIC CAPS DURING INSTALLATION TO PROTECT THREADS AND TO PREVENT ENTRANCE OF MOISTURE INTO CONDUIT.

TEST ALL CONDUITS FOR CLEAR BORE USING BALL MANDREL, BRUSHES AND SNAKE.

INSTALL A CONTINUOUS NYLON CORD 180 KG (400 LB) TEST IN EACH ENCLOSED RACEWAY LEFT EMPTY.

SECURE CONDUITS ABOVE CEILINGS TO STRUCTURAL MEMBERS, CONDUITS SHALL NOT BE SUPPORTED FROM THE CEILING SUSPENSION SYSTEM. CO-ORDINATE INSTALLATION OF CONDUITS WITH MECHANICAL DUCTWORK, PIPING, ETC.

PROVIDE CONDUIT SEALS IN CONDUITS WHICH PASS REFRIGERATED AREAS OR TO THE OUTSIDE.

PROVIDE PULL BOXES, FITTINGS OR JUNCTION BOXES IN CONDUIT RUNS, ON THE BASIS OF NOT MORE THAN 100 (30M), IN STRAIGHT RUNS BETWEEN BOXES.

ALL CONDUIT TO BE CONCEALED IN ALL NEW WALLS. CONDUIT TO BE RECESSED AND CONCEALED IN EXISTING WALLS OR AS DIRECTED BY THE ARCHITECT. PROVIDE ALL NECESSARY CUTTING AND PATCHING TO SUIT.

SIZE CONDUITS TO CODE REQUIREMENTS, PROVIDE LARGER SIZES WHERE NOTED.

12. OUTLET BOXES:

IN INTERIOR DAMP LOCATIONS, OR LOCATIONS EXPOSED TO WEATHER, PROVIDE ALL OUTLET BOXES OF WEATHERPROOF DESIGN WITH GASKET AND WEATHERPROOF COVER PLATE.

IN DRY LOCATIONS OUTLET BOXES USED WITH SURFACE MOUNTED EMT SHALL BE STANDARD SHEET STEEL SURFACE TYPE BOXES.

WHERE STANDARD BOXES ARE NOT SUITABLE, PROVIDE BOXES OF SPECIAL DESIGN TO FIT SPACE AND OTHER REQUIREMENTS.

INSTALL ALL BOXES IN WALLS SO THAT TAPPED HOLES FOR MOUNTING WIRING DEVICES WILL BE ALIGNED VERTICALLY OR HORIZONTALLY, AS REQUIRED. WHERE BOXES ARE GROUPED AT ONE LOCATION WITH COMMON AND VARYING MOUNTING HEIGHTS, ALIGN BOXES HORIZONTALLY AND VERTICALLY FROM CENTRE LINE UNLESS OTHERWISE INDICATED.

ENSURE THAT THE OUTLET BOXES WITHIN A CEILING SPACE ARE MINIMUM 8" (200MM) CLEAR FROM SUPPORT SYSTEM GRID.

OFFSET OUTLET BOX IN SOUND ATTENUATING PARTITIONS TO AVOID UNDUE TRANSMISSION OF SOUND BETWEEN THE PARTITION ELEMENTS. USE FLEXIBLE CONDUIT CONNECTIONS WHERE WIRING IS REQUIRED BETWEEN OUTLET BOXES ON OPPOSITE SIDE OF PARTITIONS.

OFFSET OUTLET BOXES WHERE INSTALLED ON EITHER SIDE OF A FIRE SEPARATION.

WIRE FOR 120 VOLT BRANCH CIRCUITS SHALL BE MIN #12 AWG COPPER FOR RUNS UP TO 100 FEET (30M) AND #10 AWG MINIMUM FOR RUNS OVER 100 FEET (30M). WIRE FOR BRANCH CIRCUITS SHALL BE SIZED FOR PROPER CURRENT-CARRYING CAPACITY AND TO LIMIT THE VOLTAGE DROP AT THE OUTLET TO 2%.

OTHERWISE NOTED.

14. IDENTIFICATION OF EQUIPMENT:

15. TESTING OWNER.

NEW EXIT SIGN OR EMERGENCY LIGHTING REMOTE HEADS SHALL BE AS NOTED IN THE LIGHTING FIXTURE SCHEDULE AND LEGEND.

17. <u>LIGHTING FIXTURES</u>

18. <u>DEVICES:</u>

19. AS-BUILT DRAWINGS: ACCEPTANCE WILL BE ISSUED.

THE AS-BUILT DRAWINGS SHALL BE COMPLETE WITH ALL CHANGE NOTICES, SITE INSTRUCTIONS AND SITE DEVIATIONS.

20. COMPLETION OF CONTRACT: EQUIPMENT SHALL BE CLEARED FROM THE PREMISES.

-ONE SET OF APPROVED SHOP DRAWINGS. -ELECTRICAL INSPECTION AUTHORITY CERTIFICATE. -LETTER OF GUARANTEE.

21. WORK IN EXISTING BUILDING: STRUCTURE.

13. WIRE AND CABLE UP TO 600 VOLTS:

INSTALL ALL WIRING IN EMT UNLESS OTHERWISE REQUIRED BY CODE. BX WIRES CAN BE USED AS WELL.

WIRE FOR 120 VOLT CONTROL CIRCUITS SHALL BE #14 AWG MINIMUM. 24 VOLT CONTROL CIRCUITS SHALL BE #12 AWG MINIMUM.

USE SOLID CONDUCTORS FOR #10 AWG AND SMALLER. USE STRANDED CONDUCTORS FOR #8 AWG AND LARGER.

ALL WIRING, EXCEPT AS CLASSIFIED BELOW OR ON DRAWINGS, SHALL BE COPPER WITH TWH INSULATION UNLESS OTHERWISE INDICATED. USE MINIMUM #12 AWG UNLESS

PROVIDE PIGTAILS FOR CONNECTIONS TO DEVICES TO ENSURE THAT LINES AND NEUTRALS ARE NOT OPENED WHEN A FIXTURE OR A DEVICE IS REMOVED FROM THE CIRCUIT.

UPDATE EACH LIGHTING AND POWER PANEL DIRECTORY.

ALL EXISTING PANELS TO REMAIN C/W A NEW TYPEWRITTEN CIRCUIT DIRECTORY INDICATING EXISTING AND NEW LOADS.

WHEN THE INSTALLATION IS COMPLETED AND READY FOR ACCEPTANCE, CARRY OUT, IN THE PRESENCE OF OWNER, ANY TESTS AS MAY BE DEEMED NECESSARY BY THE

16. <u>EMERGENCY LIGHTING</u>

WIRING FOR THE SYSTEM SHALL BE NO. 10 AWG MINIMUM OR TO THE MANUFACTURERS RECOMMENDATIONS. D.C. WIRING SHALL BE SEPARATE FROM A.C. WIRING EXCEPT WHEN OTHERWISE PERMITTED BY CODES. PROVIDE WIRING TO THE LED EXIT LIGHTS.

PROVIDE NEW LIGHTING FIXTURES AS NOTED IN THE LIGHTING FIXTURE SCHEDULE. REMOVE EXISTING LIGHTING FIXTURE SCHEDULE. REMOVE EXISTING LIGHTING INTERFERING WITH THE PROPOSED TENANT IMPROVEMENT TURN OVER TO THE BUILDING OWNER. REFER TO BASE BUILDING LIGHTING PLANS FOR BASE BUILDING DETAILS.

ALL RECEPTACLES SHALL BE SPECIFICATION GRADE STANDARD FACE AND THE FINISH SHALL BE WHITE UNLESS NOTED.

COVER PLATES FOR THE DEVICES SHALL BE BRUSHED ALUMINUM.

ALL SWITCHES TO BE AS SHOWN ON DRAWINGS. ALL DEVICES TO BE FLUSH MOUNTED IN ALL NEW WALLS AND FLUSH IN EXISTING WALLS AS DIRECTED BY THE CONSULTANT.

PROVIDE ELECTRONIC COPY AND TWO COPIES OF AS BUILT DRAWINGS TO THE OWNER FOR FINAL REVIEW AT COMPLETION OF PROJECT BEFORE THE FINAL CERTIFICATE OF

SYSTEMS SHALL BE COMPLETED, TESTED AND READY FOR USE, WITH ALL EQUIPMENT OPERATING SATISFACTORILY. ALL DEBRIS, TOOLS AND OTHER CONSTRUCTION

PROVIDE A CERTIFICATE OR GUARANTEE OF WORKMANSHIP, MATERIALS AND EQUIPMENT FOR ONE YEAR AFTER COMPLETION OF THE CONTRACT. REPAIR OR REPLACE, WITHOUT EXPENSE TO THE OWNER, ALL DEFECTS DUE TO IMPERFECT MATERIALS OR WORKMANSHIP WHICH APPEAR WITHIN ONE YEAR AFTER ACCEPTANCE OF THE WORK.

PROVIDE AS-BUILT DRAWINGS AND TWO SETS OF ELECTRICAL DATA MANUALS. DATA MANUALS TO BE COMPLETE WITH THE FOLLOWING:

-FIRE ALARM VERIFICATION AND TECHNICIANS REPORT.

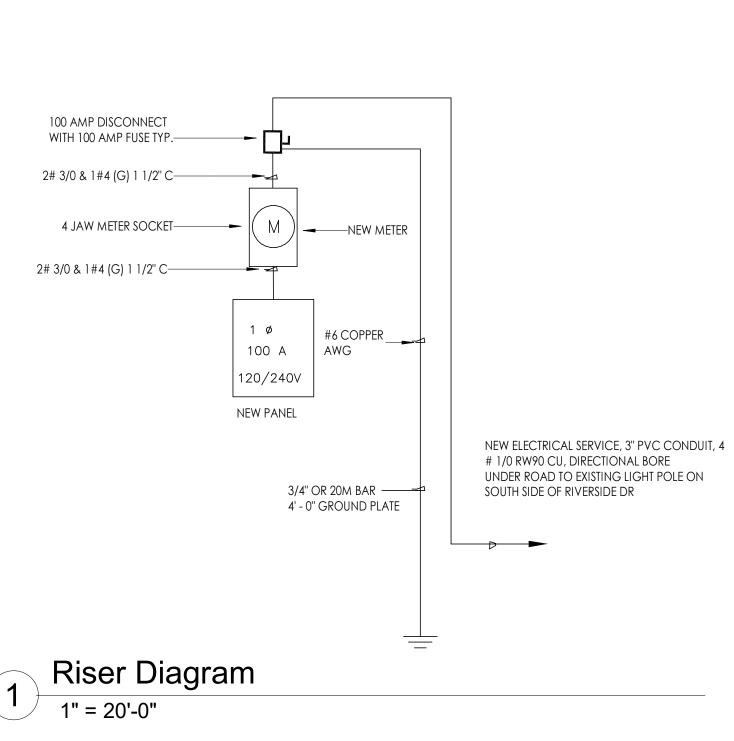
-ALL REQUIRED DOCUMENTATION REQUIRED BY THE CITY OF WINDSOR TO CLOSE OUT THE PROJECT.

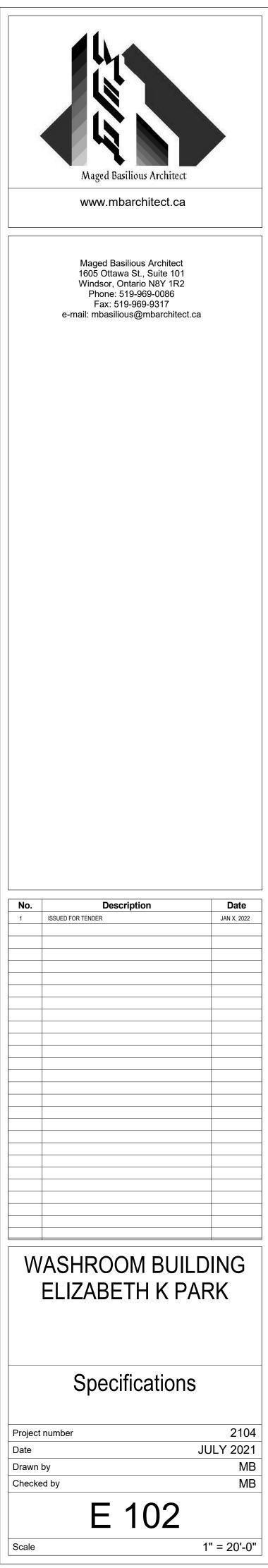
DISCONNECT AND REMOVE ALL EXISTING SERVICES WHICH ARE ABANDONED. REMOVE ALL CONDUIT WORK THAT IS ABANDONED EXCEPT WHERE FLUSH EMBEDDED IN THE

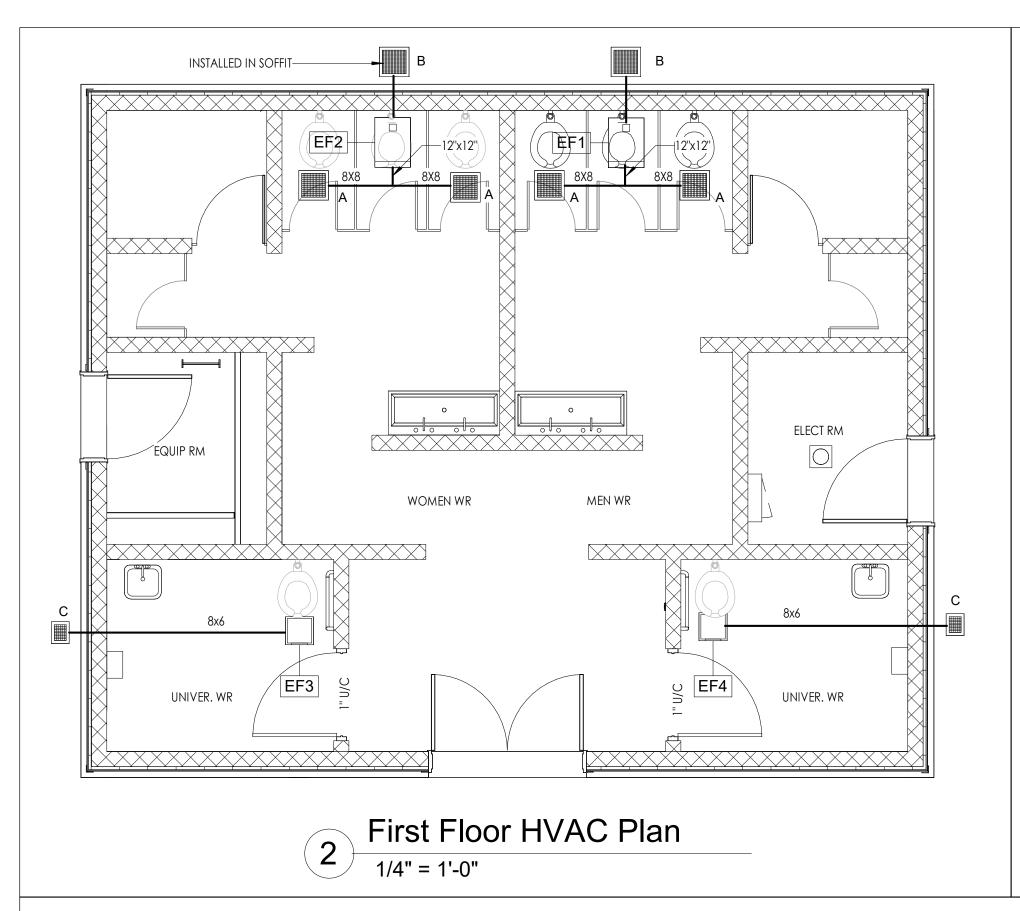
REMOVE FROM THE SITE ALL MATERIALS WHICH ARE NOT TO BE REUSED, UNLESS NOTED AS REMAINING THE PROPERTY OF THE OWNER.

REFER TO BASE BUILDING PLANS FOR DETAILS WITH RESPECT TO EXISTING LIGHTING, POWER, COMMUNICATIONS, BASE BUILDING FIRE ALARM.

SCHEDULE POWER AND LIGHTING SHUTDOWN AS NOT TO INTERFERE WITH BUILDING OPERATION.







PLUMBING SPECIFICATIONS

1. MATERIALS AND WORKMANSHIP:

- 1.1 UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND APPARATUS REQUIRED FOR WORK SHALL BE NEW, OF FIRST CLASS QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL, AND SHALL BE SELECTED AND ARRANGED SO AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST CLASS STANDARD ARTICLE AS APPROVED BY THE ENGINEER SHALL BE FURNISHED.
- 1.2. USE SKILLED AND QUALIFIED, FITTERS, PLUMBERS, METAL WORKERS, WELDERS, HELPERS, AND LABOUR REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT UP, ADJUST, START, OPERATE AND TEST SUCH SYSTEMS. HELPERS AND UNQUALIFIED WORKERS WILL BE DIRECTLY SUPERVISED AT ALL TIMES WHILE WORKING ON THE SITE BY QUALIFIED TRADES PERSONS.
- 1.3. UPON REQUEST PRODUCE COPIES OF TRADE QUALIFICATIONS OF ANY SELECTED WORKERS.

1.4. THE ENGINEER SHALL HAVE THE RIGHT TO REJECT ANY ITEM THAT, IN HIS/HER OPINION, DOES NOT CONFORM TO AN ACCEPTABLE STANDARD OF QUALITY, QUIETNESS OF OPERATION, FINISH, APPEARANCE AND ERFORMANCE. UNACCEPTABLE MATERIAL AND/OR WORKMANSHIP MUST BE RECTIFIED TO THE APPROVAL OF THE ENGINEER.

2. PIPING MATERIALS:

2.1 THE FOLLOWING PIPING MATERIAL SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

SERVICE	MATERIAL					
SANITARY DRAINAGE ABOVE GRADE INSIDE BUILDING	CAST IRON WITH MECHANICAL JOINTS OR COPPER DWV GRADE. ABS/PVC DWV PIPING IS ACCEPTABLE IF IN COMPLIANCE WITH LOCAL AUTHORITY'S REQUIREMENTS AND PROVIDED FIRE SEPARATIONS ARE NOT PENETRATED.					
SANITARY DRAINAGE BELOW GRADE INSIDE BUILDING	CAST IRON WITH MECHANICAL JOINTS, ABS DWV GRADE OR PVC DWV GRADE. CSA B71 ABS SEWER PIPE CSA B72.1-M PVC SEWER PIPE CSA B72.2-M					
SANITARY AND STORM SEWERS BELOW GRADE OUTSIDE BUILDING	ABS SEWER PIPE CSA B72.1-M, SDR-35 PVC SEWER PIPE CSA B72.2, CONCRETE SEWER PIPE WITH GASKETS					
DOMESTIC HOT AND COLD WATER ABOVE GRADE. INSIDE BUILDING	TYPE L. HARD DRAWN COPPER WITH SOLDER JOINTS TO ASTM B-88					
DOMESTIC HOT AND COLD WATER BRANCH LINES BELOW GRADE INSIDE BUILDING	TYPE L SOFT TEMPER COPPER WITH SOLDER JOINTS TO ASTM B-88 OR SCHEDULE 40 CPVC CSA B137-6-M.					
WATER MAIN BELOW GRADE OUTSIDE BUILDING	TYPE K SOFT TEMPER COPPER WITH SOLDER JOINTS TO ASTM B-88, SCHED 80 PVC WATER PIPE & FITTINGS CSA B137-3 PVC PRESSURE PIPE AWWA C-900					
INDIVIDUAL WATER SERVICE PEX PRESSURE TUBING CSA B137.5-M, BELOW GRADE TO EACH UNIT POLYETHYLENE TUBING CSA B137.1-M						
2.2. NO ALTERATION OR CHANGES TO	MATERIALS SPECIFIED IS ACCEPTABLE WITHOUT PRIOR WRITTEN APPROVAL OF MECHANICAL CONSULTANTS.					
3. INSTALLATION:						
3.1 PROVIDE ANCON "SHOK-GUARDS" ON ALL HOT AND COLD DOMESTIC WATER LINES, AT GROUPS OF PLUMBING FIXTURES,						

- 3.2. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHEREVER PLUMBING LINES PENETRATE A FINISHED WALL.
- 3.3. PROVIDE SHUT-OFF VALVES AND ACCESSORIES IN ACCESSIBLE LOCATIONS TO APPLIANCE, PIECE OF EQUIPMENT, FIXTURE GROUP OR FIXTURE. PROVIDE VALVES IN ACCORDANCE WITH CODES AND WHERE SHOWN ON THE DRAWINGS.
- 3.4. INSTALL BALANCING VALVES WHERE SHOWN ON THE DRAWINGS OR AS REQUIRED AND ADJUST THE VALVES FOR BALANCED FLOW ON THE RECIRCULATION SYSTEM. APPROVED PRODUCT: TOUR AND ANDERSON MODEL STA-5
- 3.5. IDENTIFY EACH PIPING SYSTEM WITH STICK ON DECALS TO INDICATE SERVICE AND DIRECTION OF FLOW.
- 3.6. DO NOT RUN WATER PIPES IN OUTSIDE WALLS WITHOUT PROTECTION FROM FREEZING TO THE ENGINEER'S APPROVAL.
- 3.7. CO-ORDINATE WITH GENERAL CONTRACTOR LOCATIONS AND SIZES OF REQUIRED PLUMBING CHASES AND ANY ADDITIONAL BRACING BETWEEN STUDS FOR WALL HUNG FIXTURES.
- 3.8. CO-ORDINATE WITH GENERAL CONTRACTOR ANY REQUIRED CUTTING OF STRUCTURE TO FACILITATE PASSAGE OF PIPES.

4. EXPANSION AND SETTLEMENT:

- 4.1. INSTALL PIPES WITH ALLOWANCE FOR EXPANSION, CONTRACTION AND SETTLING. DOMESTIC HOT WATER PIPES SHALL HAVE EXPANSION JOINTS, LOOPS OR OFFSETS AS SHOWN ON THE DRAWINGS AND AT LEAST EVERY 100 FEET OF STRAIGHT RUN. PROVIDE PIPE ANCHORS BETWEEN EXPANSION ELEMENTS.
- 4.2. PROVIDE CLEARANCE WHERE PIPES PENETRATE STRUCTURES TO ALLOW FOR PIPE MOVEMENT.
- 4.3. PROVIDE HORIZONTAL OFFSETS AT BRANCHES FROM HOT AND COLD WATER RISERS WITH AT LEAST TWO ELBOWS PRIOR TO A FIXTURE TAKE-OFF.
- ALLOW FOR SETTLEMENT OF WOOD FRAME CONSTRUCTION OF UP TO 1" PER FLOOR. PROVIDE EXTRA SLOPE ON BRANCH DRAINS AND OR EXPANSION COMPENSATORS TO MAINTAIN 4.4. THE CODE REQUIRED SLOPE AFTER THE BUILDING HAS SETTLED.

<u>5. INSI</u>	JLATION:
5.1.	ALL INSULATION WO
5.2.	DOMESTIC WATER P
5.3.	INSULATION TO BE

Mark

Type Mark

FD-1

WC1

WC2

5.3.		ULATIC H ONE		
5.4.	ALL	SANIT	ARY	P
<u>6. HANG</u>	ERS:			
6 1	SUI		DIDI	NG

6.1. SUPPORT PIPING REQUIRED BY THE

7. SEISMIC REQUIREMENTS: 7.1. GENERAL .1 THE CONTRACT Canada (NBCC) an

.2 THE CONTRACT

ENGINEER.

7.2 SPECIFIC:

1. THE FOLLOW

.1 ALL OT .2 ALL OTI

2. THE FOLLOWI

8. CLEANOUTS:

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3.3	CLEANOUTS IN S

9. PLUMBING FIXTURE SCHEDULE:

9.1 SUPPLY AND INSTALL THE FOLLOWING FIXTURES MANUFACTURED BY CRANE, AMERICAN STANDARD OR APPROVED EQUAL, IN LOCATIONS INDICATED ON THE DRAWINGS, COMPLETE WITH SUPPLIES, HANGERS, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. TOGGLE BOLTS, EXPANSION ANCHORS, OR SIMILAR FASTENERS SHALL BE USED FOR SECURING FIXTURES TO CONCRETE AND CONCRETE BLOCK WALLS. IN FRAME WALLS, INSTALL 50x150mm (2"x6" BRACING BETWEEN STUDS TO ACT AS SUPPORT FOR WALL HUNG FIXTURES. EACH FIXTURE SHALL BE INSTALLED COMPLETE WITH CHROME PLATED ANGLE STOPS, FLEXIBLE SUPPLIES AND ESCUTCHEONS.

AND SHALL ABIDE

.3 THE CONTRACT

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HOSE BIBBS

HB-1 WATTS FHB-1 FROST PROOF HOSE BIBB WITH INTEGRAL ANTI-SIPHON DESIGN. HB-2 WATTS DRAINAGE PRODUCTS HY-500-2-3/4 CONCEALED NON-FREEZE KEY OPERATED DECK HYDRANT WITH NICKEL BRONZE BOX AND DOOR, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, BRONZE CASING, AND LOOSE KEY. PROVIDE 12"(W)x12"(L)x12" (D) ROCK PIT.

FLOOR DRAINS

				Ν	Mechanical Equ		lule									
Manufacturer Count Description	Service Location.	CFM	FRPM	TSP (IN. WG.)	Fan BHP	n Data AMP	Elect	rical Data	HZ	OPER WE				REMARKS		
GREENHECK 1 EXHAUST FAN	MEN WASHROOM	400 CFM	1495	0.50 in-wg	.09	3.4 A	120 V	1	60	40	SQ-95-VG	PROVIDE WITH BAC	CKDRAFT DAMP	er. gravity o	PERATOR, INTERLOCK	
GREENHECK 1 EXHAUST FAN GREENHECK 1 EXHAUST FAN (CEILING) GREENHECK 1 EXHAUST FAN (CEILING)	WOMEN WASHROOM UNIVERSAL WR UNIVERSAL WR	400 CFM 110 CFM 110 CFM	1495 940 940	0.25 in-wg	.09 30 30	3.4 A	120 V 120 V 120 V	1 1	60 60 60	40 30 30	SQ-95-VG SP-110-VG SP-110-VG	PROVIDE WITH BAC	CKDRAFT DAMP	ER. GRAVITY O	PERATOR, INTERLOCK PERATOR, INTERLOCK PERATOR, INTERLOCK	(W/LIGHT
			/40	0.20 11-wg	50		120 V	1	00]31-110-40					
Grill and Diffuser schedu	Deflection. Materi	ial. Co	punt													
Titus 271FS 12"x12" 5	ingle Aluminum															
	ingle Aluminum ingle Aluminum															
			PI	lumbing Fixture Sc	chedule											
ark Description	Drain	TRAP	V	CW S	Supply	HW				REM	ARKS.					
FLOOR DRAIN	<varies></varies>	<varies></varies>	2"	1/2"	-		TYPICAL FLOC EXTENSION. V				-200-1-7 WITH 6"	DIA NICKEL BRONZE STR	AINER AND			
LAVATORY (SLOAN)	2"	2"	1 1/4" X1 1/	/2" 1/2"	-		COMOLETE W	ITH, DELTA C				0321.075, 0321.975 HRC TOPS & SUPPLIES, TRAP (•	ER		
TRHOUGH SINK	2"	2"	1 1/2"	1/2"	-			DE STAINLESS				# Z866CO, DELTA #24T20 P COVER. VERIFY SELEC		ER		
TRENCH DRAIN WATER CLOSET (FLUSH VALVE) (SLOAN)	3" <varies></varies>	3" <varies></varies>	2" 2"	1"	-		SHALLOW TRE FLOOR - MOU	NCH DRAIN Z NTED, FLUSH	URN - Z844 - 40 VALVE, WHITE,	" LONG WITH ST VITREOUS CHINA	AINLESS STEEEL G					
WATER CLOSET (FLUSH VALVE) (SLOAN)	3"	INT.	2"	1"	-		FLOOR - MOU	NTED, FLUSH				ONT, BOLT COVERS REG	GAL XL FLUSH			
										HEAT	ING, VENTILAT	ING AND AIR CONDIT	TIONING			
N WORK SHALL BE IN STRICT ACCORDANCE WITH STANDARDS AND BE CAP TON OF THE ARCHITECT/ENGINEER. FER PIPING TO BE INSULATED WITH 1/2" FIBREGLASS INSULATION WITH V O BE AS MANUFACTURED BY MANSON INSULATION OR KNAUF INDUSTRIES CE PRE MOULDED HIGH IMPACT PVC FITTING COVERS.	APOUR BARRIER. SEAL ALL JOINTS	S.					<u>2. WORH</u> (a) THIS (<u>(INCLUDED</u> CONTRACTOR	Shall do all hi	EATING, VENTILATI	ion and air cond	JPPLEMENTARY GENERAL R	/N ON THE DRAWI	NGS.		
P-TRAPS IN AREAS SUBJECT TO FREEZING SHALL BE INSULATED WITH	MIN. 1/2" (13 mm) INSULATION C	C/W VAPOUR BARRIE	ER.				(b) PROV	IDE ALL DUCT	INSULATION AS	Shown and speci	IFIED, AND EXCEPT	FOR ACOUSTIC LINING, AL	LL INSULATION SF	iall be done by	A QUALIFIED SUB-CON	TRACTOR .
								<u>K NOT INCLUI</u> R WIRING TO		AND PROVISION O	F SAFETY DISCON	IECTS, EXCEPT WHERE THE	e piece of equipi	Ment comes wi	TH A BUILT-IN DISCONN	NECT PROVIDED
ING ON ADJUSTABLE MALLEABLE IRON OR WROUGHT STEEL HANGERS. G THE PLUMBING CODE.	RINNELL No.97, 101, 260, 269	OR APPROVED EQU	UAL. INSTALLATIO	on and spacing s	Shall be as		<u>4.</u> TEST1	<u>NG, STA</u> RT-L	P AND GUARA	NTEE						
<u>vTS:</u>							(a) STAR		ms in conjunc		Facturer's Repre	SENTATIVE, AND LOG ALL (OPERATING COND	ITIONS SUCH AS	TEMPERATURE RISE, A	AIR VOLUME AND
RACTOR SHALL PROVIDE SEISMIC RESTRAINTS FOR ALL EQUIPMENT, PIPIN C) AND "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS /	G, AND DUCTWORK, THAT MEETS		S DEFINED BY TH	e national build	ING CODE OF		(B) LUBR	icate all equ	IPMENT, CHANG	e filters and an	Y INDICATOR LAMP	S, AND PROVIDE A WARRA	ANTY LETTER TO T	HE OWNER RECC	RDING THE DATE OF S	START AND THE
TAINT "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS RACTOR SHALL RETAIN A ONTARIO PROFESSIONAL STRUCTURAL ENGINEER IDE BY ALL RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.		-	-	ent, Piping, and D	DUCT WORK		(C) WARR	ANTY ON ALL S	YSTEMS IS ONE	Full year parts .	AND LABOR, AND A	N ADDITIONAL ONE YEAR	CON ALL REFRIGE	ATION SYSTEMS	INCLUDING LABOR.	
TRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH THE NECESSAR	Y SHOP DRAWINGS, INCLUDING D	DETAILS OF SEISMIC	C RESTRAINT, SEA	LED BY THE STRUC	TURAL		<u>5. DUCT</u> (A) PROV		K AS SHOWN AN		METAL SHALL BE PE	NIME COAT GALVANIZED CO	OLD ROLI FD STEE	L WITH GALIGES	AND CONSTRUCTION PF	ER SMACNA AND
CTURAL ENGINEER SHALL ISSUE LETTERS OF ASSURANCE FOR THE STRUCT	JRAL CAPACITY OF THE MECHANIC	cal, plumbing, an	ND FIRE PROTECTI	ION SYSTEMS, INCL	UDING					INED, DUCTS SIZE						
ND SEISMIC RESTRAINT. MENT MANUFACTURER SHALL DESIGN EQUIPMENT SUCH THAT THE STRENG QUIPMENT TO THE SUPPORTING STRUCTURE.	TH AND ANCHORAGE OF INTERNA	al components e>	KCEEDS THE ORCE	ELEVEL USED TO R	ESTRAIN AND		(D) ELBO AND TURNI	WS SHALL BE F NG VANES SHA	OUND THROAT	Where Possible \).	WITH ONE DUCT W	H THREADED ROD SUPPOR IDTH RADIUS. SQUARE TH	HROAT OR BACK EI	Bows shall on	LY BE USED WHERE SPA	ACE DOES NOT F
							(F) FLEX I	DUCTS SHALL I	OT EXCEED 10'	IN LENGTH AND W		d throat type, except s Connect to a diffuser, .				
LOWING RULES APPLY TO THE RESTRAINT OF PIPING: RE THE HANGERS ARE MORE THAN 12" (300MM) IN LENGTH FROM THE TOP IDED FOR THE FOLLOWING:		TTOM OF THE STRU	ICTURAL SUPPORT	Γ, SEISMIC RESTRAI	INTS SHALL BE		PROV (G) PROV	ide equal flo Ide flex coni	W OUT OF THE	diffuser. L places of equif	PMENT, AND WHER	E THE UNIT. IS OUTSIDE, F				
LL OTHER PIPING IN BOILER AND MECHANICAL EQUIPMENT ROOMS 1 1/4" I LL OTHER PIPING 2 1/2" DIAMETER AND LARGER, INCLUDING DOMESTIC W LARGER, OR ROUND DUCTWORK 28" (700MM) DIAMETER AND LARGER.	DIAMETER AND LARGER. ATER AND DRAINAGE PIPING. ALL	L RECTANGULAR DU	CTWORK 6 SQ. FT	. (0.5 SQ. M) CROS	s sectional ari	EA	()			•	FROM INSIDE IF N					
LOWING RULES APPLY TO THE RESTRAINT OF EQUIPMENT: L RESILIENTLY MOUNTED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC S	NUBBERS							<u>INSULATION</u>	VORK (WITH TH		ת דאומר דאו	UCTWORK) SHALL BE EXTE	RNALLY WRAP W/T	TH 25MM (1"ነ Tዞ	ICK FIBER GI ASS VINVI	JACKFT INSUL
L FLOOR-MOUNTED EQUIPMENT SHALL BE BOLTED TO THE FLOOR. RTICAL TANKS AND WATER HEATERS SHALL BE BOLTED TO THE FLOOR AND		CIRCLING STRAP AT	THE MID-POINT,	WITH RIGID BRAC	ing to th stru	ICTURE.					EEVE APPROVED F			23mm (1 <i>)</i> T		
									RS AND REGIST							
SHALL BE INSTALLED ON ALL INTERIOR AND EXTERIOR SANITARY AND		CCORDANCE WITH	LOCAL PLUMBING	g codes.			(B) CALLI	NG DIFFUSERS	SHALL BE ADJU	STABLE PATTERN, I		NHITE COLOR TO MATCH C	Calling Grid. Ea	CH UNIT SHALL F	AVE A VOLUME DAMPE	R and where (
HALL BE FULL SIZE FOR PIPES OF 4" DIAMETER AND LESS, AND 4" SIZE FOR N SIDEWALKS, CONCRETE OR PAVED AREAS FOR OUTSIDE DRAINAGE PI		BE EXTENDED TO SU	RFACE IN C.I. PI	PE WITH PIPE AN	ichored in 12")	X 12"	ADDITIONA	l blank-off e	BAFFLES TO PRE	ENT DOWNDRAFT.		HROW PATTERN AS LISTED				
OF CONCRETE.	LEANOUT COVERS.						BLADE, EXC	EPT WHERE N	OTED OTHERWIS	E, AND ALL WALL I	REGISTERS FOR CO	RRIDOR SUPPLIES SHALL B	BE CURVED BLADE	STYLE.		
APPROPRIATE UNITATED TO LEONA OUT APPROPRIATE C								rn grilles SH R. Exhaust gr		IMITINUM GRID FOR	CEILINGS AND STE	EL, FRAMED UNITS WITH F	-ixed 35 DEG. BAR	S FUR WALL OR	CEILING INSTALLATION	I WITH DUCTED

	Gril	l and Diffuser sched	dule		
Make	Model	Size	Deflection.	Material.	Count
Titus	271FS	12"x12"	Single	Aluminum	4
Titus	271FS	12"x12"	Single	Aluminum	2
Titus	33RS	8"x6"	Single	Aluminum	2

Mechanical Equipment Sc	hedule	
Fan Data	Electrical Data OPER WEIGHT	
Mark Manufacturer Count Description Service Location. CFM FRPM TSP (IN. WG.) BHP AMP	VOLT PH HZ (LBS) MODEL REMARKS	
GREENHECK 1 EXHAUST FAN MEN WASHROOM 400 CFM 1495 0.50 in-wg .09 3.4 A GREENHECK 1 EXHAUST FAN WOMEN WASHROOM 400 CFM 1495 0.50 in-wg .09 3.4 A	120 V 1 60 40 \$Q-95-VG PROVIDE WITH BACKDRAFT DAMPER. GRAVITY OPERATOR, INTERLOCK W/LIGHT 120 V 1 60 40 \$Q-95-VG PROVIDE WITH BACKDRAFT DAMPER. GRAVITY OPERATOR, INTERLOCK W/LIGHT	
GREENHECK 1 EXHAUST FAN (CEILING) UNIVERSAL WR 110 CFM 940 0.25 in-wg 30 GREENHECK 1 EXHAUST FAN (CEILING) UNIVERSAL WR 110 CFM 940 0.25 in-wg 30	120 V16030SP-110-VGPROVIDE WITH BACKDRAFT DAMPER. GRAVITY OPERATOR, INTERLOCK W/LIGHT120 V16030SP-110-VGPROVIDE WITH BACKDRAFT DAMPER. GRAVITY OPERATOR, INTERLOCK W/LIGHT	
		Maged Basilious Architect
		www.mbarchitect.ca
Grill and Diffuser schedule		
Mark Make Model Size Deflection. Material. Count		
Titus 271FS 12"x12" Single Aluminum 2 Titus 33RS 8"x6" Single Aluminum 2		
		T: (905) 520 9575 F: 905-304 46 Sundrop Crt. Ancaster, ON
		L9K 1G5
Plumbing Fixture Schedule		
e Mark Description Drain TRAP v CW Supply HW	REMARKS.	
FLOOR DRAIN <varies> 2" 1/2"</varies>	TYPICAL FLOOR DRAIN FOR SLAB ON GRADE. ANCON FD-200-1-7 WITH 6" DIA NICKEL BRONZE STRAINER AND EXTENSION. VERITY SELECTION WITH OWNER.	
LAVATORY (SLOAN) 2" 2" 1 1/4" X1 1/2" 1/2" -	WHITE VITREOUS CHINA WALL HUNG SINK AMERICAN STANDARD 0321.026,0321.075, 0321.975 HROME, SINGLE LEVER COMOLETE WITH, DELTA CHROME SINGLE PLATE# 87T105 WITH STRAINER, STOPS & SUPPLIES, TRAP COVER VERIFY SELECTION WITH OWNER.	
TRHOUGH SINK 2" 2" 1 1/2" 1/2"	CUSTOM MADE STAINLESS STEEL SINK 18 GUACE-NOVANNI FAUCET: ZURN # Z866CO, DELTA #24T2643 HANDLE WITHOUT SPRAYER, COMPLETE WITH CUP STRAINER, STOPS & SUPPLIES, TRAP COVER. VERIFY SELECTION WITH OWNER	
TRENCH DRAIN 3" 3" 2" - WATER CLOSET (FLUSH VALVE) (SLOAN) <varies> <varies> 2" 1" -</varies></varies>	SHALLOW TRENCH DRAIN ZURN - Z844 - 40" LONG WITH STAINLESS STEEEL GRATE FLOOR - MOUNTED, FLUSH VALVE, WHITE, VITREOUS CHINA, ELONGATED FRONT, BOLT COVERS REGAL XL FLUSH	
WATER CLOSET (FLUSH VALVE) (SLOAN) 3" INT. 2" 1" -	111-1.28XL. VERIFY ESLECTION WITH OWNER. FLOOR - MOUNTED, FLUSH VALVE, WHITE, VITREOUS CHINA, ELONGATED FRONT, BOLT COVERS REGAL XL FLUSH	
	111-1.28XL. VERIFY ESLECTION WITH OWNER MOUNT BETWEEN 17" TO 19".	
	HEATING, VENTILATING AND AIR CONDITIONING	
ATION WORK SHALL BE IN STRICT ACCORDANCE WITH STANDARDS AND BE CARRIED OUT BY AN EXPERIENCED FIRM WITH AN ESTABLISHED REPUTATION IN THIS FIELD AND TO FACTION OF THE ARCHITECT/ENGINEER. WATER PIPING TO BE INSULATED WITH 1/2" FIBREGLASS INSULATION WITH VAPOUR BARRIER. SEAL ALL JOINTS.	(a) THE GENERAL REQUIREMENT OF THE CONTRACT DOCUMENTS AND THE SUPPLEMENTARY GENERAL REQUIREMENTS FOR MECHANICAL WORK SHALL FORM AN INTEGRAL PART OF THIS SPECIFICATION.	
N TO BE AS MANUFACTURED BY MANSON INSULATION OR KNAUF INDUSTRIES. ONE PIECE MOULDED INSULATION WITH SELF SEALING ADHESIVE. ALL FITTINGS TO BE COMPLETE PIECE PRE MOULDED HIGH IMPACT PVC FITTING COVERS.	 (a) THIS CONTRACTOR SHALL DO ALL HEATING, VENTILATION AND AIR CONDITIONING WORK AS SHOWN ON THE DRAWINGS. (b) PROVIDE ALL DUCT INSULATION AS SHOWN AND SPECIFIED, AND EXCEPT FOR ACOUSTIC LINING, ALL INSULATION SHALL BE DONE BY A QUALIFIED SUB-CONTRACTOR. 	
ARY P-TRAPS IN AREAS SUBJECT TO FREEZING SHALL BE INSULATED WITH MIN. 1/2" (13 mm) INSULATION C/W VAPOUR BARRIER.		
	3. WORK NOT INCLUDED (a) POWER WIRING TO ALL EQUIPMENT AND PROVISION OF SAFETY DISCONNECTS, EXCEPT WHERE THE PIECE OF EQUIPMENT COMES WITH A BUILT-IN DISCONNECT PROVIDED AS A PART OF THE PACKAGE.	
PIPING ON ADJUSTABLE MALLEABLE IRON OR WROUGHT STEEL HANGERS. GRINNELL No.97, 101, 260, 269 OR APPROVED EQUAL. INSTALLATION AND SPACING SHALL BE AS BY THE PLUMBING CODE.		
MENTS:	 4. TESTING, START-UP AND GUARANTEE (a) START UP ALL SYSTEMS IN CONJUNCTION WITH MANUFACTURER'S REPRESENTATIVE, AND LOG ALL OPERATING CONDITIONS SUCH AS TEMPERATURE RISE, AIR VOLUME AND PRESSURE AND FILE THREE 	
	(B) LUBRICATE ALL EQUIPMENT, CHANGE FILTERS AND ANY INDICATOR LAMPS, AND PROVIDE A WARRANTY LETTER TO THE OWNER RECORDING THE DATE OF START AND THE DURATION OF WARRANTY.	
ONTRACTOR SHALL PROVIDE SEISMIC RESTRAINTS FOR ALL EQUIPMENT, PIPING, AND DUCTWORK, THAT MEETS THE REQUIREMENTS DEFINED BY THE NATIONAL BUILDING CODE OF IBCC) AND "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" (SMACNA AND PPIC).	(c) WARRANTY ON ALL SYSTEMS IS ONE FULL YEAR PARTS AND LABOR, AND AN ADDITIONAL ONE YEAR ON ALL REFRIGERATION SYSTEMS INCLUDING LABOR.	No. Description 1 ISSUED FOR TENDER
ONTRACTOR SHALL RETAIN A ONTARIO PROFESSIONAL STRUCTURAL ENGINEER TO REVIEW THE ADEQUACY OF SEISMIC RESTRAINT OF ALL EQUIPMENT, PIPING, AND DUCT WORK ABIDE BY ALL RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.	5. DUCTWORK	
ONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH THE NECESSARY SHOP DRAWINGS, INCLUDING DETAILS OF SEISMIC RESTRAINT, SEALED BY THE STRUCTURAL	(A) PROVIDE DUCTWORK AS SHOWN AND REQUIRED. ALL METAL SHALL BE PRIME COAT GALVANIZED COLD ROLLED STEEL WITH GAUGES AND CONSTRUCTION PER SMACNA AND ASHRAE STANDARDS.	
TRUCTURAL ENGINEER SHALL ISSUE LETTERS OF ASSURANCE FOR THE STRUCTURAL CAPACITY OF THE MECHANICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS, INCLUDING SE AND SEISMIC RESTRAINT.	(B) WHERE DUCTS ARE ACOUSTICALLY LINED, DUCTS SIZE SHOWN ARE NET.	
DUIPMENT MANUFACTURER SHALL DESIGN EQUIPMENT SUCH THAT THE STRENGTH AND ANCHORAGE OF INTERNAL COMPONENTS EXCEEDS THE ORCE LEVEL USED TO RESTRAIN AND HE EQUIPMENT TO THE SUPPORTING STRUCTURE.	(C) DUCTS SHALL BE SUPPORTED USING ANGLE IRON TRAPEZE HANGERS WITH THREADED ROD SUPPORTS. 18 GA. STRIPS ARE ACCEPTABLE FOR DUCTS LESS THAN 18" LONGEST SIDE.(D) ELBOWS SHALL BE ROUND THROAT WHERE POSSIBLE WITH ONE DUCT WIDTH RADIUS. SQUARE THROAT OR BACK ELBOWS SHALL ONLY BE USED WHERE SPACE DOES NOT PERMIT STANDARD ELBOWS	
	AND TURNING VANES SHALL BE INSTALLED.	
FOLLOWING RULES APPLY TO THE RESTRAINT OF PIPING:	(F) FLEX DUCTS SHALL NOT EXCEED 10' IN LENGTH AND WHERE FLEX DUCTS CONNECT TO A DIFFUSER, A METAL ELBOW SHALL BE MOUNTED ON THE DIFFUSER AND CONNECTED TO THE DUCT, TO	
/HERE THE HANGERS ARE MORE THAN 12" (300MM) IN LENGTH FROM THE TOP OF THE PIPE OR DUCT TO THE BOTTOM OF THE STRUCTURAL SUPPORT, SEISMIC RESTRAINTS SHALL BE ROVIDED FOR THE FOLLOWING:	PROVIDE EQUAL FLOW OUT OF THE DIFFUSER. (G) PROVIDE FLEX CONNECTIONS TO ALL PLACES OF EQUIPMENT, AND WHERE THE UNIT. IS OUTSIDE, PROVIDE A RAIN SHIELD OVER THE TOP OF CONNECTION. FOR EXTERIOR DUCTS, BREAK THE DUCT	
1 ALL OTHER PIPING IN BOILER AND MECHANICAL EQUIPMENT ROOMS 1 1/4" DIAMETER AND LARGER. 2 ALL OTHER PIPING 2 1/2" DIAMETER AND LARGER, INCLUDING DOMESTIC WATER AND DRAINAGE PIPING. ALL RECTANGULAR DUCTWORK 6 SQ. FT. (0.5 SQ. M) CROSS SECTIONAL AREA ND LARGER, OR ROUND DUCTWORK 28" (700MM) DIAMETER AND LARGER.	ON TOP TO PROVIDE POSITIVE RAIN SHEDDING, AND BRACE FROM INSIDE IF NECESSARY.	
FOLLOWING RULES APPLY TO THE RESTRAINT OF EQUIPMENT:		
1 ALL RESILIENTLY MOUNTED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC SNUBBERS 2 ALL FLOOR-MOUNTED EQUIPMENT SHALL BE BOLTED TO THE FLOOR. 3 VERTICAL TANKS AND WATER HEATERS SHALL BE BOLTED TO THE FLOOR AND FURTHER SECURED WITH AN ENCIRCLING STRAP AT THE MID-POINT, WITH RIGID BRACING TO TH STRUCTURE.	(D) ALL EXHAUST DUCTWORK (WITH THE EXCEPTION OF KITCHEN EXHAUST DUCTWORK) SHALL BE EXTERNALLY WRAP WITH 25MM (1") THICK FIBER GLASS VINYL JACKET INSULATION FOR A MINIMUM OF 6'-0" (1.8M) FROM EXTERIOR WALL OR WITH INSULATION SLEEVE APPROVED FOR APPLICATION.	
	7. GRILLES, DIFFUSERS AND REGISTERS	
TS SHALL BE INSTALLED ON ALL INTERIOR AND EXTERIOR SANITARY AND STORM DRAINAGE PIPING IN ACCORDANCE WITH LOCAL PLUMBING CODES.	(A) PROVIDE UNITS AS SHOWN ON THE PLANS AND LISTED IN THE SCHEDULE.	
TS SHALL BE FULL SIZE FOR PIPES OF 4" DIAMETER AND LESS, AND 4" SIZE FOR ALL LARGER PIPES.	(B) CALLING DIFFUSERS SHALL BE ADJUSTABLE PATTERN, LAY-IN STYLE OFF-WHITE COLOR TO MATCH CALLING GRID. EACH UNIT SHALL HAVE A VOLUME DAMPER AND WHERE CLOSE TO A WALL PROVIDE ADDITIONAL BLANK-OFF BAFFLES TO PREVENT DOWNDRAFT.	
JTS IN SIDEWALKS, CONCRETE OR PAVED AREAS FOR OUTSIDE DRAINAGE PIPING AND FOOTING DRAINS TO BE EXTENDED TO SURFACE IN C.I. PIPE WITH PIPE ANCHORED IN 12" X 12"	(C) REGISTERS SHALL BE DOUBLE DEFLECTION, WITH FRONT BARS TO SUIT THROW PATTERN AS LISTED ON DRAWINGS, AND BE COMPLETE WITH OB DAMPER. ALL CEILING REGISTERS SHALL HAVE CURVED	WASHROOM BUIL
LAR OF CONCRETE.	BLADE, EXCEPT WHERE NOTED OTHERWISE, AND ALL WALL REGISTERS FOR CORRIDOR SUPPLIES SHALL BE CURVED BLADE STYLE.	FLIZABETH K PA

8.4 WHERE CLEANOUTS MUST BE INSTALLED IN FINISHED FLOORS USE APPROPRIATE CLEANOUT COVERS.

PLUMBING FIXTURES ARE SELECTED BY OWNER. SHOP DRAWINGS OF PLUMBING FIXTURE FOR ENGINEER'S AND OWNER'S REVIEW.

FD-1 TYPICAL FLOOR DRAIN FOR SLAB ON GRADE. ANCON FD-100-1-7 WITH 6"Ø NICKEL BRONZE STRAINER AND EXTENSION.

8. EXHAUST FAN

(E) DOOR GRILLES SHALL BE SINGLE V; WITH FRAME ON BOTH SIDES.

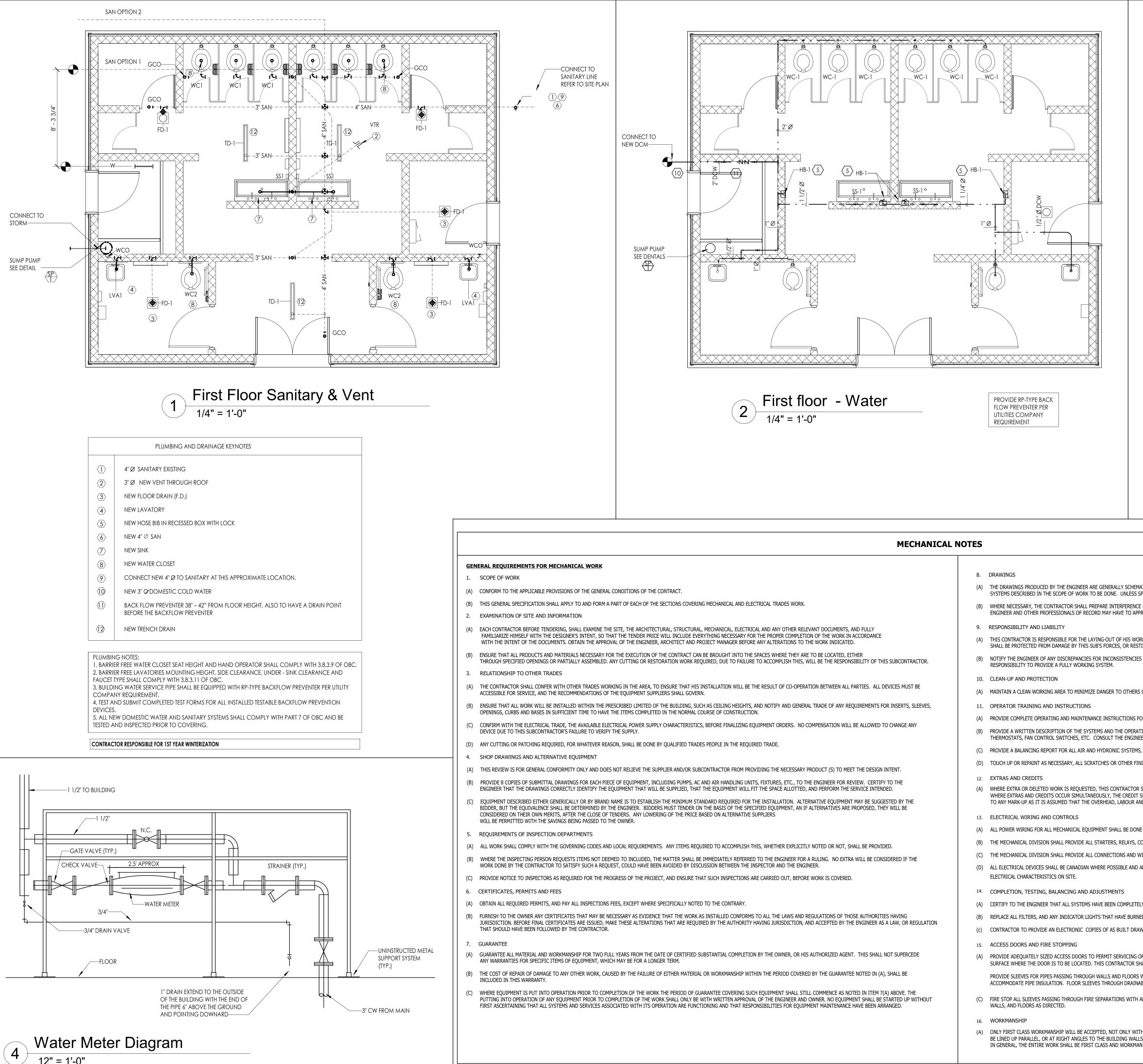
(A) PROVIDE EXHAUST FANS AS SHOWN ON THE DRAWINGS COMPLETE WITH BACK DRAFT DAMPER AND CONTROL AS LISTED. (B) ROOF MOUNTED FANS SHALL BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH, AND SHALL BE MOUNTED ON A PREFABRICATED CURB WITH A NEOPRENE INSULATION STRIP ON TOP OF CURB, UNDER THE FAN. FOR DIRECT DRIVE FANS PROVIDE INTEGRAL ELECTRONIC SPEED CONTROL MOUNTED UNDER THE COVER.

HVAC PI., Specifications & Schedules 2104 Project number Date Drawn by Т. М. Checked by

M 101

JULY 2021 M. B.

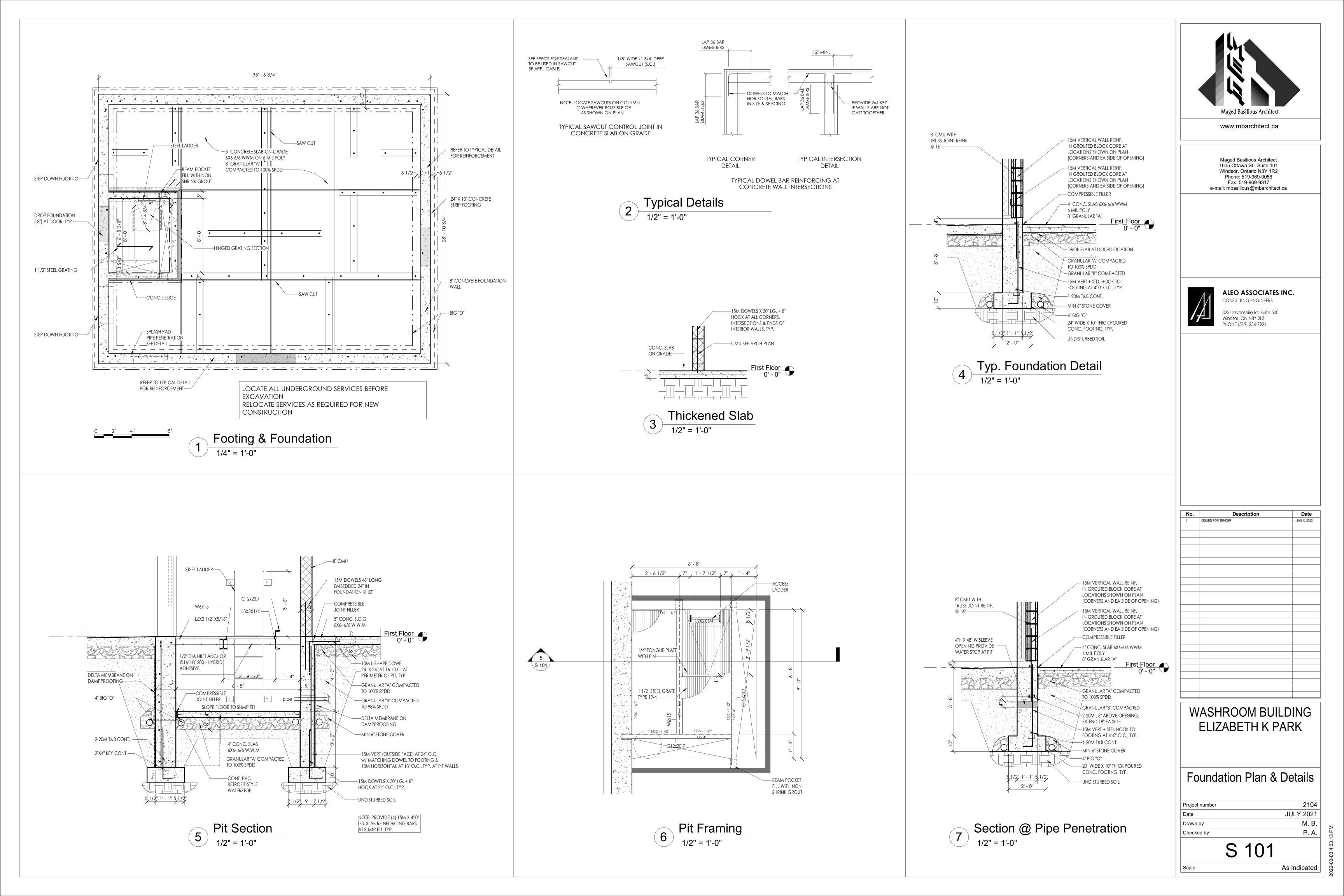
Scale

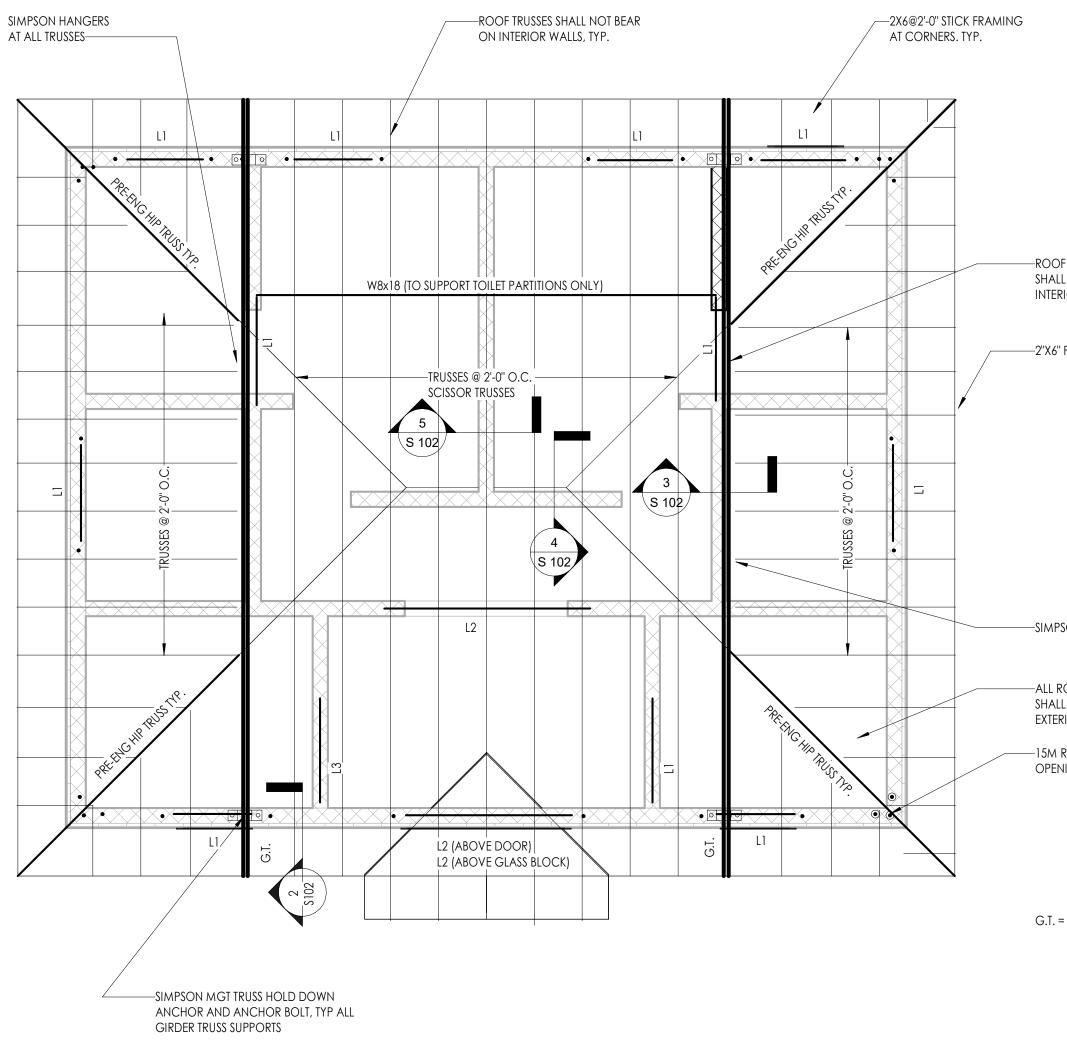


- (A) THE DRAWINGS PRODUCED BY THE ENGINEER ARE GENERALLY SCHEMA SYSTEMS DESCRIBED IN THE SCOPE OF WORK TO BE DONE. UNLESS S (B) WHERE NECESSARY, THE CONTRACTOR SHALL PREPARE INTERFERENCE ENGINEER AND OTHER PROFESSIONALS OF RECORD MAY HAVE TO APPR (A) THIS CONTRACTOR IS RESPONSIBLE FOR THE LAYING-OUT OF HIS WORK SHALL BE PROTECTED FROM DAMAGE BY THIS SUB'S FORCES, OR RESTI (B) NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR INCONSISTENCIES (A) MAINTAIN A CLEAN WORKING AREA TO MINIMIZE DANGER TO OTHERS (A) PROVIDE COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FC (B) PROVIDE A WRITTEN DESCRIPTION OF THE SYSTEMS AND THE OPERAT THERMOSTATS, FAN CONTROL SWITCHES, ETC. CONSULT THE ENGINEE (C) PROVIDE A BALANCING REPORT FOR ALL AIR AND HYDRONIC SYSTEMS (D) TOUCH UP OR REPAINT AS NECESSARY, ALL SCRATCHES OR OTHER FIN (A) WHERE EXTRA OR DELETED WORK IS REQUESTED, THIS CONTRACTOR S WHERE EXTRAS AND CREDITS OCCUR SIMULTANEOUSLY, THE CREDIT TO ANY MARK-UP AS IT IS ASSUMED THAT THE OVERHEAD, LABOUR AN (A) ALL POWER WIRING FOR ALL MECHANICAL EQUIPMENT SHALL BE DONE (B) THE MECHANICAL DIVISION SHALL PROVIDE ALL STARTERS, RELAYS, C (C) THE MECHANICAL DIVISION SHALL PROVIDE ALL CONNECTIONS AND W (D) ALL ELECTRICAL DEVICES SHALL BE CANADIAN WHERE POSSIBLE AND A (A) CERTIFY TO THE ENGINEER THAT ALL SYSTEMS HAVE BEEN COMPLETEL (B) REPLACE ALL FILTERS, AND ANY INDICATOR LIGHTS THAT HAVE BURNE
- SURFACE WHERE THE DOOR IS TO BE LOCATED. THIS CONTRACTOR SH PROVIDE SLEEVES FOR PIPES PASSING THROUGH WALLS AND FLOORS W ACCOMMODATE PIPE INSULATION. FLOOR SLEEVES THROUGH DRAINAB

BE LINED UP PARALLEL, OR AT RIGHT ANGLES TO THE BUILDING WALLS IN GENERAL, THE ENTIRE WORK SHALL BE FIRST CLASS AND WORKMAN

<image/> <image/> <text><text><text><text><text><text></text></text></text></text></text></text>	Aged Basilious Architect www.mbarchitect.ca
	No. Description Date 1 ISSUED FOR TENDER JAN X, 2022
RK, AND IT SHALL BE DONE IN COOPERATION WITH ALL OTHER TRADES WORKING IN THE AREA. THE WORK OF THESE OTHER SUBTRADES ITTUTION MADE FOR ANY DAMAGE. S AND ABIDE BY THE DECISION OF THE ENGINEER. FAILURE TO NOTIFY THE ENGINEER WILL NOT RELIEVE THIS CONTRACTOR OF THE	
ON SITE, AND PROTECT ALL WORK IN PROGRESS FROM DAMAGE DUE TO CONSTRUCTION WORK, WEATHER, OR FROM UNDUE DIRT ENTRY.	
OR ALL EQUIPMENT SUPPLIED, COMPLETE WITH PARTS LISTS AND THE NAMES OF THE SUPPLIERS. FING CHARACTERISTICS, FOR USE BY THE SYSTEM OPERATORS/MAINTENANCE PERSONNEL, AND TO INSTRUCT THE USERS HOW TO SET EER WHEN PREPARING THIS INSTRUCTION SHEET, TO ENSURE THAT THE SYSTEM WILL BE OPERATED AS INTENDED. 5, WHICH HAS BEEN PREPARED BY AN INDEPENDENT TESTING COMPANY APPROVED BY THE ENGINEER. NISH DEFECTS, THAT HAVE OCCURRED ON ANY DEVICES SUPPLIED UNDER THIS CONTRACT. SHALL BE PERMITTED A MARK- UP OF 10% OVERHEAD AND 10% PROFIT BASED ON LABOR COST AND TRADE COST FOR ALL MATERIAL. SHALL BE DEDUCTED FROM THE EXTRA, PRIOR TO THE APPLICATION OF THESE MARK-UPS. CREDITS FOR DELETED WORK WILL NOT BE SUBJEC ND PROFIT ON THESE DELETED MATERIALS WAS INCLUDED AT THE TIME THE WORK WAS BID.	л
E BY DIVISION 16 - ELECTRICAL, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.	
CONTROL DEVICES, AND ANY BUILT-IN SAFETY SWITCHES. THE ELECTRICAL WILL PROVIDE ALL FIELD-MOUNTED SAFETY DISCONNECTS.	
ALL MOTORS UP TO 1/3 HP SHALL BE SINGLE PHASE, LARGER MOTORS 3 PHASE, EXCEPT AS NOTED. CONFIRM ALL	WASHROOM BUILDING ELIZABETH K PARK
LY INSTALLED PER THE DOCUMENTS, SET IN OPERATION, AND ADJUSTED TO THE REQUIREMENTS OF THE PROJECT. ED OUT, AND LUBRICATE ALL ROTATING DEVICES IMMEDIATELY PRIOR TO TURN OVER TO THE OWNER OR HIS AGENT. WINGS UPON THE PROJECT COMPLETION	Eirot Eloor Dlumbing 9
OF ANY MECHANICAL DEVICE, CLEANOUT, CHECK VALVE, ETC. THE DOORS WILL BE INSTALLED BY THE TRADE PROVIDING THE HALL BE FULLY RESPONSIBLE FOR ACCURATELY LOCATING THE DOOR, CONSIDERING ALL OBSTRUCTIONS.	First Floor - Plumbing & Drainage
WHERE PIPE MOVEMENT IS POSSIBLE. USE SCHEDULE 40 PIPE SECTIONS FOR MASONRY WALLS, LARGE ENOUGH TO BLE FLOORS SHALL EXTEND UP ABOVE THE FINISHED FLOOR	Project number 2104 Date JULY 2021
AN APPROVED FIRE STOPPING MATERIAL, AND MAKE WATERPROOF. PROVIDE ESCUTCHEONS FOR ALL EXPOSED PENETRATIONS THROUGH	Drawn byM. B.Checked byT. M.
TH REGARDS TO SAFETY, EFFICIENCY, DURABILITY, ETC., BUT ALSO WITH REGARDS TO THE NEATNESS OF DETAIL. ALL PIPE WORK SHALL S WHERE POSSIBLE. EQUIPMENT MUST BE ACCURATELY SET, PLUMB AND LEVEL, AND ALL HANGERS MUST BE IN TRUE VERTICAL ALIGNMENT. N LIKE AND PRESENT A NEAT CLEAN APPEARANCE UPON COMPLETION.	M-102 Scale As indicated

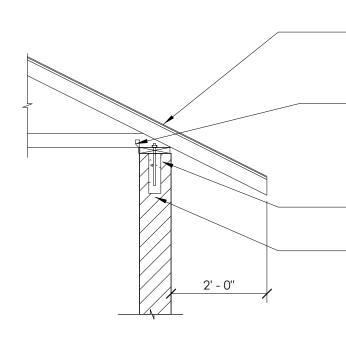




Roofing Framing Plan

1/4" = 1' - 0"

SPECIFIED ROOF	LOADING TABLE
ITEM	_
TRUSS LOADING: TOP CHORD (INCLUDES: 5%" SHEATHING, TRUSS, ASPHALT SHINGLES)	14 psf
BOTTOM CHORD (INCLUDES: INSULATION, CEILING, MECH. + ELEC.)	10 psf
TOTAL DEAD LOAD	24 psf
LIVE LOADS: TOP CHORD - SNOW BOTTOM CHORD	22 psf 10 psf
TOTAL LIVE LOAD	32 psf
TOTAL LOAD	56 psf
 ALL LOADS ARE UNFACTO MIN. CONCENTRATED LIV 2'-6" X 2'-6" AREA = 300 LE CONCENTRATED LIVE LO ON THE BOTTOM CHORD 	/E LOAD APPLIED OVER SS AD APPLIED AT ANY POINT
DESIGN PARAMETERS: UNFACTORED WIND UPLIFT = 22 UNFACTORED MIN. DEAD LOAD = LIVE LOAD DEFLECTION = L/300 Is=1.0; ULS=1.0; SLS=0.90; Ss=0.80; S	
WIND AND EARTHQUAKE PARAME ACCORDANCE WITH OBC '12 USIN ASSUMED SITE CLASS D - STIFF SOIL	IG PARAMETERS FOR WINDSOR:

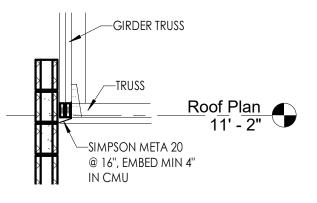


SEE ROOF FRAMING PLAN FOR ROOF TRUSS LOCATION AND SPACING

GALV. TRUSS HOLD DOWN TIE @ EACH TRUSS, DESIGN BY TRUSS MANUF. TYP.

ANCHOR TOP PLATE TO BLOCK WITH 1/2" DIA 8" LONG + HOOK ANCHORS @ 32" O.C. GROUT TOP 2 COURSES SOLID







LINTEL SCHEDULE THIS SHEET:

2 - L3 1/2" X 3 1/2" X 1/4" L2 2 - L5 X 3 1/2" X 5/16" LLV

LINTEL SCHEDULE:

1) REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL WALL OPENINGS AND PENETRATIONS THAT ARE NOT IDENTIFIED ON THE STRUCTURAL LINTEL PLANS. THE STEEL CONTRACTOR SHALL SUPPLY LINTELS FOR SUCH OPENINGS ACCORDING TO THE INFORMATION BELOW.

i) 8" CONCRETE BLOCK

MASONRY OPENING: SECTION: UP TO 30" 2-3 1/2" X 3 1/2" X 1/4" L'S 30" TO 72" 2-5" X 3 1/2" X 5/16" L's (LLV)

2) ALL LOOSE LINTELS, BEARING PLATES, ETC. SHALL BE INSTALLED BY THE MASONRY CONTRACTOR.

3) ALL L'S TO BE LONG LEG VERTICAL U.N.O.

4) ALL LINTELS TO HAVE 8" BEARING U.N.O.

5) ALL LINTELS TO BEAR ON SOLID COURSING (TWO COURSES GROUTED SOLID) WHERE BEARING PLATES ARE NOT REQUIRED U.N.O.

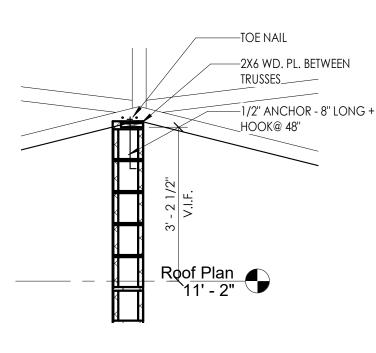
6) REFER TO ARCHITECTURAL DRAWINGS FOR ALL LINTEL ELEVATIONS, LOCATIONS AND GALVANIZING REQUIREMENTS.

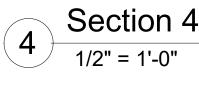
-SIMPSON HANGERS AT ALL TRUSSES

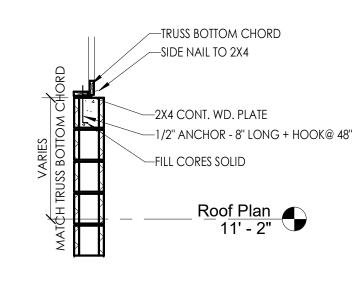
-ALL ROOF SHEATHING SHALL BE 5/8" DOUGLASS FIR PLYWOOD EXTERIOR GRADE W/ H-CLIPS

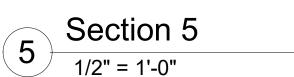
-15M REBAR IN CORNERS & EA SIDE OF OPENING 2ND CORE FROM OPENING.

G.T. = GIRDER TRUSS









FOUNDATIONS

1. All footings are designed for an assumed maximum soil pressure of SLS = 2000 psf; ULS = 3000 psf on approved undisturbed native soil. Geotechnical Consultant to review initial founding elevations and verify bearing capacity prior to the contractor proceeding with excavation or foundation construction. 2. All footing excavations are to be inspected by the Soils Consultant prior to placing of concrete. Notify the geotechnical consultant a minimum of 24 hours in advance of time of inspection. 3. Excavate first for those footings shown at the deepest elevations, working up to the highest elevations. 4. Protect existing foundations from loss of support during construction of new footings. 5. All footings subject to frost action shall be carried down a minimum of 4'-0" below finished grade. 6. If soil conditions or special job conditions require lowering of footings advise the Soils Consultant before proceeding. 7. Soil supporting footings and slabs shall be protected from freezing before and after concrete is placed. 8. Backfill exterior walls with free draining granular material. Interior material shall be as noted on the drawings. 9. Backfill and compact walls below grade shall be done in 12" lifts and compacted with water. 10. For all interior slab on grade areas, proof-roll existing sub-grade to identify soft spots. Remove soft material and replace with compacted Granular A or B compacted to 98% SPDD. 11. Place 8" Granular "A" compacted to 100% SPMDD on Granular "B" compacted to 98% SPMDD on proof rolled and approved subgrade under all slabs on grade. Place rigid insulation on compacted granular material prior to placing slab on grade. All reinforcement and mesh shall be chaired using plastic reinforcement chairs.

STRUCTURAL STEEL

1. Submit one PDF copy of all shop drawings to the Consultants for review.

- 2. Fabrication and erection of structural steel shall be in accordance with CAN/CSA-S16.1-09. 3. All structural steel shall conform to CAN/CSA-G40.21-04 type 350W except as noted.
- 4. Hollow structural sections shall conform to CAN/CSA-G40.21-04 type 350W, Class C. 5. Base plates for columns and bearing plates for beams shall conform to CAN/CSA-G40.21-04 type 300W or better unless noted.
- conform to CSA-W59-03. 7. Sections not rolled in CAN/CSA-G40.21-04 type 350W shall conform to or exceed the requirements of ASTM Standard A36. 8. The fabricator shall note the size and type of bolts and welds used in structural connections on the shop drawings. 9. All structural steel connections other than simple shear connections shall be designed and sealed by a Professional Engineer licensed in the province of Ontario.
- matter before shop painting. Shop paint shall conform to CAN/CGSB 1.40-97. 11. Steel directly exposed to weather or as noted on the drawings shall be Hot Dip Galvanized (HDG). 12. Where Hot Dip Galvanizing (HDG) is specified it shall be in accordance with CAN/CSA-G164-M92 (minimum zinc coating 600 gsm). 13. Structural steel to be encased in concrete, faying surfaces of slip-resistant connections and adjacent to areas to be field welded, shall not be painted.
- 14. Where it is necessary to provide holes for pipes, conduits, etc. in the webs of beams or columns in the field, the contractor whose trade requires the openings shall be responsible for reinforcing these members to the approval of the Consultants. Flanges of steel beams or columns shall not be cut unless approved by the Consultants. painted brown colour.
- a 2" hook.

<u>CONCRETE</u>

- 1. Submit one pdf copy of all shop drawings to the Consultants for review.
- 2. All concrete work has been designed in accordance with CAN3-A23.3-04.
- 3. Concrete requirements are as follows: Mix Location <u>Min. Strength @ 28 Days</u> <u>Slump (mm)</u> <u>Air Content</u> 80 +/- 10 25 MPa Footings 100 +/- 20 3% - 6% Foundation Walls & Piers 25 MPa Interior S.O.G.* 30 MPa 100 +/- 20 -Exterior Concrete 32 MPa 100 +/- 20 5% - 8% Ext. Concrete at Grade 32 MPa 100 +/- 20 5% - 8% * Finish shall be as per architectural drawings or machine troweled finish if not otherwise specified on the architectural drawings.
- 4. Reinforcing steel requirements are as follows: Location or Size <u>Min. Yield Strength</u> Lap Length <u>Remarks</u> 400 MPa Class B
- 5. Detailing and placing of all reinforcing steel shall be in accordance with The Reinforcing Steel Institute of Canada (RSIC) "Manual of Standard Practice". 6. All concrete materials and methods of concrete construction shall be in accordance with CAN/CSA-A23.1-09. and reinforcement review.
- 8. Lap all temperature reinforcing with Class B splice lengths.
- 9. Concrete protection to reinforcement unless noted otherwise (in.):
- Concrete deposited against earth
- Formed concrete exposed to weather or in contact with earth
- 2" SOG Concrete deposited against vapour barrier _____
- Tie bars at all intersections. All slab-on grade concrete reinforcement shall be chaired. See architectural and mechanical details for placement of heating tubing. 11. All openings for mechanical and electrical trades shall be approved by the Consultants for size and location before placement of concrete. 12. Add 2-15 bars top and bottom at perimeter of all openings in concrete slabs and extend bars 24" past opening each side, unless otherwise noted.
- 13. Add 1-15 bar each face at perimeter of all openings in concrete walls and extend bars 24" past opening each side, unless otherwise noted. 14. Embedment of conduits and pipes shall be in accordance with the requirements of CAN3-A23.3-09.
- 15. Masonry anchors shall be Hot Dip Galvanized after fabrication or stainless steel (type 304).

MASONRY

- 1. All masonry has been designed in accordance with CSA-S304.1-09.
- 3. Materials used in masonry construction shall conform to Section 5 of CAN3-S304.1-09.
- 5. Construction of masonry shall conform to the appropriate requirements of CAN3-A371-04 (R2009).
- 6. All clay brick masonry units shall comply with the requirements of CAN/CSA-A82-06 (R2011).
- concrete block masonry units shall be 15 MPa on the net area. 8. All physical properties of concrete block masonry units shall be in accordance with Ontario Concrete Block Association standard metric size block. 9. The contractor shall supply the Consultants with certification from the brick and block suppliers indicating conformance to the drawings and specifications.
- 10. Mortar types as referred to on the structural drawings shall be in accordance with CSA-A179-04 and as follows: Type of Mortar Min. Avg. Comp. Field Strength @ 28 Days
 - 14.0 MPa Block Fill
 - 10.0 MPa Loadbearing Masonry
 - 4.0 MPa Masonry Veneer
- 11. Build all walls simultaneously, unless detailed otherwise on the structural drawings. 12. All brick masonry units shall be laid with full head and bed joints.
- 13. All block masonry units shall be laid with full head joints, and
- full bed joints under the full bearing areas of the face shells, and under webs surrounding those cells to be filled with grout.
- 14. The maximum thickness of a mortar joint in load-bearing masonry shall be $\frac{1}{2}$ ".
- widths.
- 17. To ensure proper drainage, the cavity in a cavity wall or a veneer wall shall be kept free of mortar droppings. 18. Frozen materials or materials containing ice shall not be used in masonry.
- completed work.
- 20. Calcium chloride or any admixture containing calcium chloride shall not be used in any mortar for this project 21. Uncompleted masonry exposed to the weather shall be covered on the top surface with a waterproof material except when construction is in progress. in place and the masonry work can safely support the design loads.
- 23. All beams to have 8" minimum bearing unless noted on plans. Provide full beam bearing on bearing plates
- 24. All lintels shown on plans are located in walls immediately below that framing level. All lintels shall be hot-dipped galvanized.
- 26. Minimum column base plates 10"x5/8" x 10" unless noted otherwise. 27. Infill solid around all beam bearings with solid masonry to maintain full wall section.

WOOD FRAMING

- 1. The structural design of the building is in conformance with the Ontario Building Code (OBC), latest edition.
- 2. All wood and wood components have been designed in accordance with CSA-086-09.
- 4. Joists and built-up beams (lintels) shall be No. 2 grade S-P-F or better.
- 5. Studs and built-up columns shall be construction grade S-P-F or better

PREFABRICATED WOOD TRUSSES

- 1. Truss supplier to be responsible for truss design including layout and connections to structure..
- 2. Design to resist all loads indicated on the drawings including net wind uplift where applicable, for the specified service condition 3. Submit shop drawings (for each truss type including a framing plan) per layout on roof plan for review by the Consultant prior to fabrication. 4. Shop drawings to show location and number of lateral braces.
- 5. All drawings to be sealed by a Professional Engineer including framing plan.
- 6. Roof truss design to comply with Part 4 of the current OBC and CAN3-086-09 commercial quality. 7. Every wood roof truss shall be anchored with 18 ga. galvanized rafter ties to resist wind uplift loads as calculated by the truss designer.
- uplift loading. 8. Design all timber in accordance with CAN3-086-09
- 9. The contractor shall provide all necessary bridging, bracing, supplementary framing and truss anchors as required to satisfy all design requirements. and sheathing is in place.

-ROOF TRUSS GIRDERS SHALL NOT BEAR ON INTERIOR WALLS, TYP.

-2"X6" FASCIA BOARD

6. All welding shall be done by an organization fully approved by the Canadian Welding Bureau under CSA-W47.1-03 in Division 1 or 2 AT THE TIME OF TENDERING. Welding and welding materials shall

10. All structural steel shall be sufficiently straight that variations cannot be determined with the unaided eye. All structural steel shall be thoroughly cleaned of all loose mill scale, dirt, oil, or other foreign

15. Steel lintels shall have a minimum bearing length of 8". Lintels made up of two angles shall be welded together with a minimum 3/16"x2" weld top and bottom at 24" c.c. Glavinised steel shall be

16. Where the edges of suspended concrete slabs bear on steel beams, anchors shall be welded to the beams at 24" intervals and embedded in the concrete. Anchor size shall be ¹/₄"x1.5"x12" long with

17. Where block or brick masonry passes a steel beam or abuts or passes a steel column, provide hot dip galvanized or stainless steel (type 304) masonry anchors as detailed on the drawings.

7. Testing of concrete shall comply with the requirements of CAN/CSA-A23.2-09. Notify materials consultant and structural engineer a minimum of 24 hours prior to concrete placement for concrete testing

10. Provide sufficient support bars on high chairs, slab bolsters, and other accessories to maintain the reinforcing steel in the required positions with proper clearances before and during placing of concrete.

2. The owner or builder shall obtain engineering inspection of the masonry construction and testing of mortar cubes in accordance with CSA-A179-04 (R2009), as a condition of the structural design.

4. Connectors for masonry shall conform to CAN3-A370-04 (R2009) and be Hot Dip Galvanized after fabrication or stainless steel (type 304). Masonry anchors shall meet all seismic requirements of the OBC.

7. All concrete block masonry units shall comply with the requirements of CAN3-A165-04(R2009). Refer to the drawings for block classifications. Unless noted otherwise the minimum compressive strength of

15. The intersection of all loadbearing masonry walls shall be bonded using true masonry bond. See structural drawings for bonding details other than true masonry bond. 16. Block masonry units supporting steel beams or joists shall have their voids filled with "M" type mortar or equivalent strength concrete. Fill voids of two supporting courses by a minimum of two block

19. Masonry shall not be laid when the temperature of the outside air is below 4 degrees Celcius, unless means approved by the Consultants are provided to heat the masonry materials, and protect the

22. The contractor shall be responsible for providing adequate temporary bracing for all loads to which the masonry work may be subjected, including wind, until such time as the permanent supports are

25. Unless noted otherwise, minimum beam bearing plates to be 5.5"x1/2"x8" on 6" walls or 7.5"x1/2"x8" on 8" or thicker walls. Set in grout bed on solid or filled masonry minimum 16" deep x 32" wide.

3. All construction to comply with applicable sections of the current Ontario Building Code. For timber framing and connections not specifically noted, refer to OBC Part 9 requirements.

8. Every Girder truss(GT) must be anchored to solid grouted and reinforced masonry reinforced to the top of foundation wall. The girder truss(GT) designer must specify this anchor to match his/her design

10. The contractor shall also supply and install adequate bracing to trusses and the building frame to resist all wind and lateral loads during and after the erection, until such time as the permanent bracing

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<u>No.</u>	ISSUED	Description	
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Date Drawn by

Checked by

JULY 2021 M. B. P. A

Scale

As indicated