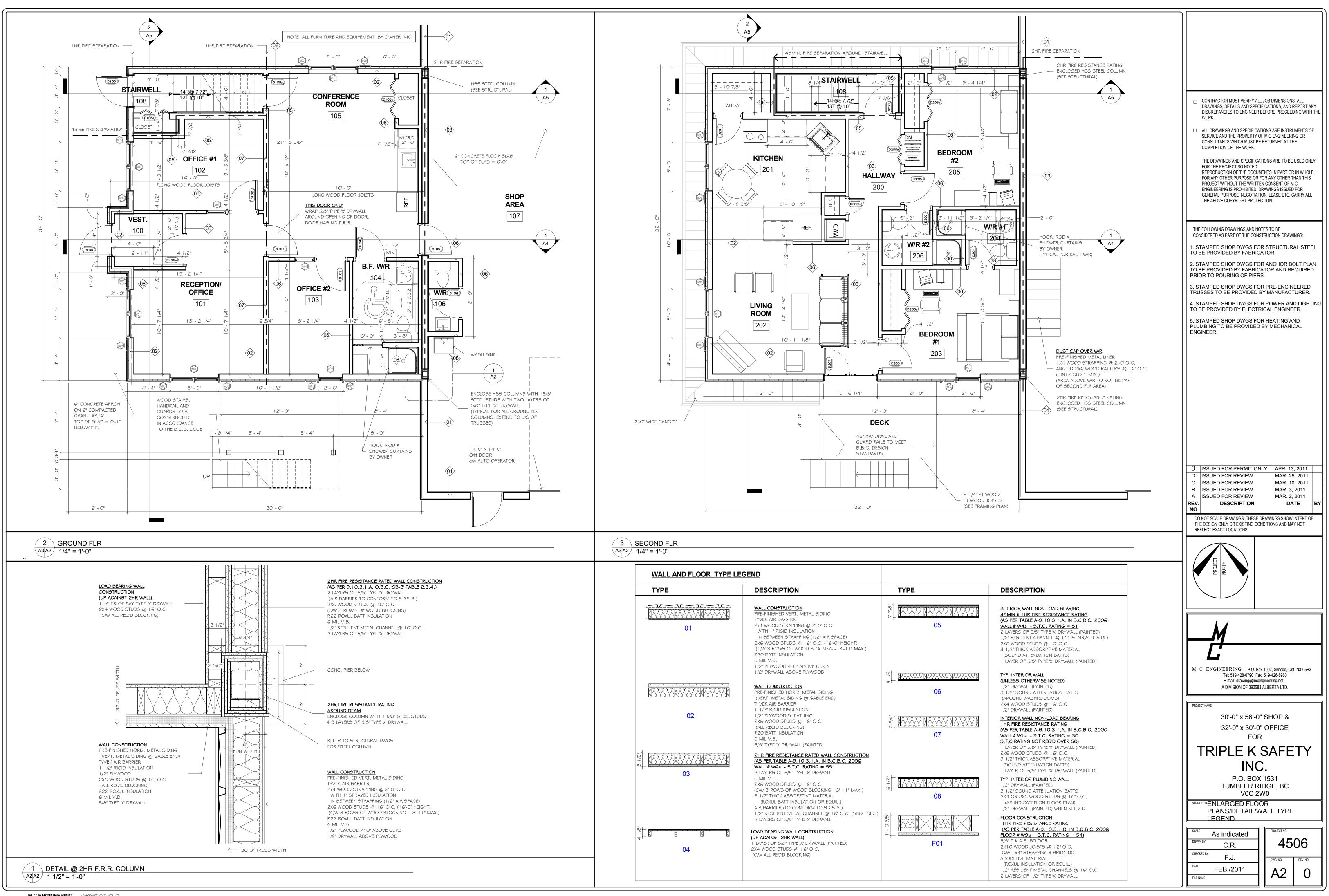
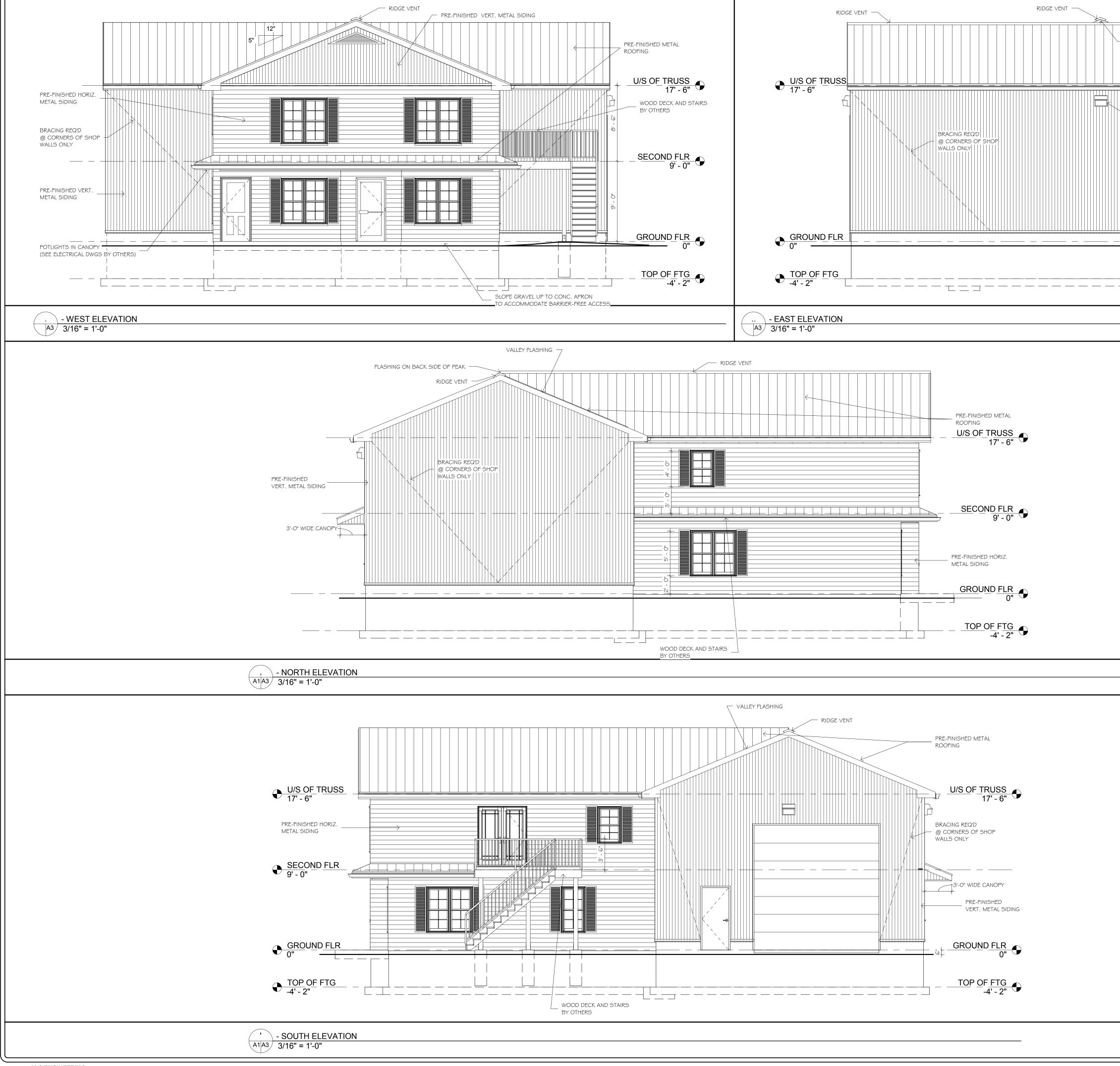


M C ENGINEERING A DIVISION OF 392583 ALTA. LTD.

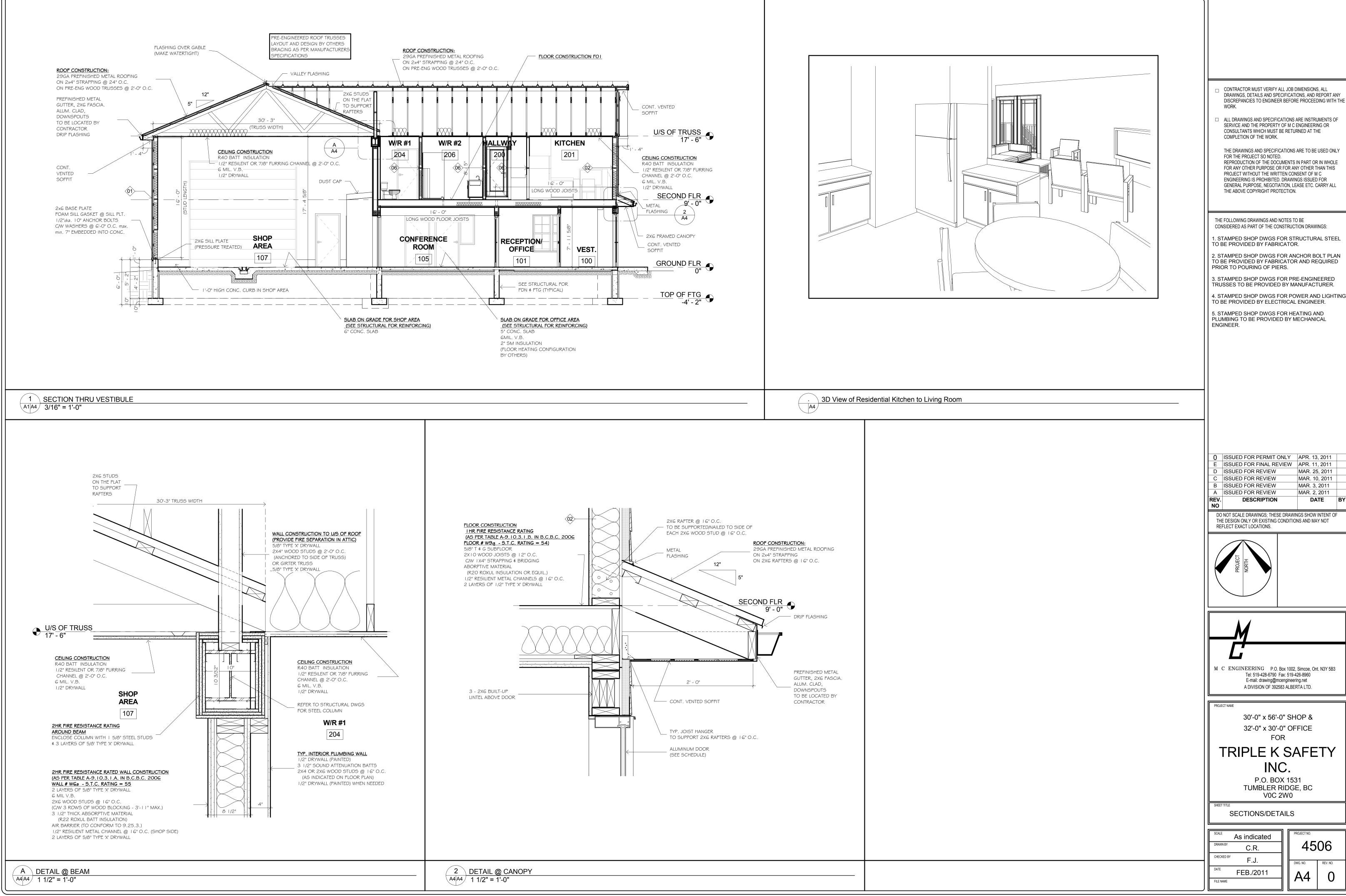
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ption: Triple P.O E	e K Saftey Box 1531 T Residentia Above Grade	Finc. Fumbler Ridge Change of Use I D office F2 R Existing 2 5.4 1 no entire build intercon in lieu or X Yes Yes	260m² 260m² 403m² Below Grade Jilding nected floor sp f roof rating	X New Repair Addition Add 143 Total 403 Total Q	Part 3	BCBC R 2.1.1 9.10.2 1.3.3.4 1.3.3.4 9.10.4 9.10.4 n/a 9.10.2 n/a 9.10.18	Part 9	9 Part 11	E ISSUE D ISSUE C ISSUE A ISSUE REV. NO DO NOT SC THE DESIG REFLECT E	ED FOR PERMIT ON ED FOR FINAL REVIEW ED FOR REVIEW ED FOR REVIEW ED FOR REVIEW DESCRIPTION CALE DRAWINGS; THESE IN NONLY OR EXISTING CO XACT LOCATIONS.	IEW APR. MAR. MAR. MAR. MAR. I	
F Mez F Stee C tion - Constr	m² / pers Horiz loors Roof zzanine loors loors el Frame to F2	N/A Son X Yes Yes zontal Assemb FRR (Hours) 1.00 FRR of Supporting Members 1.00 2.00	X No mbustible Persons X Design X No lies Hour (s) Hour (s) Hour (s) Hour (s)		5/8" type X Dryv 5/8" Type X Dryv 5/8" Type X Dry	wall 9.10.3. 9.10.14	2(4) 1.B 1.A	Non-	M C ENO	GINEERING P.O. Bo Tel: 519-428-6790 Fa E-mail: drawing@mce A DIVISION OF 392583 30'-0" x 56'-0 32'-0" x 30'-0 FOF	x: 519-426-8960 ngineering.net 3 ALBERTA LTD " SHOP 8 " OFFICE	
	rea of 3F m ² 88 50 97 97	(m) 32 15 32	L/H or H/L 3 to 1 2 to 1 3 to 1 3 to 1	Permitted % of Openings 100 100 100	FRR Liste (Hours) Desig Descri 0 0 0 0	n or Const	1	Comb. Constr.	SHEET TITLEON LA MA SCALE DRAWN BY CHECKED BY	FOR IPLE K INC P.O. BOX TUMBLER R VOC 21 /ERALL FLOOF YOUT/LOCATI ATRIX/DWG LLS AS indicated C.R. M.E.M. FEB./2011	SAF 1531 IDGE, BC W0 R PLAN ON PLAN ST/3D-VIE	; I/ BBC EW



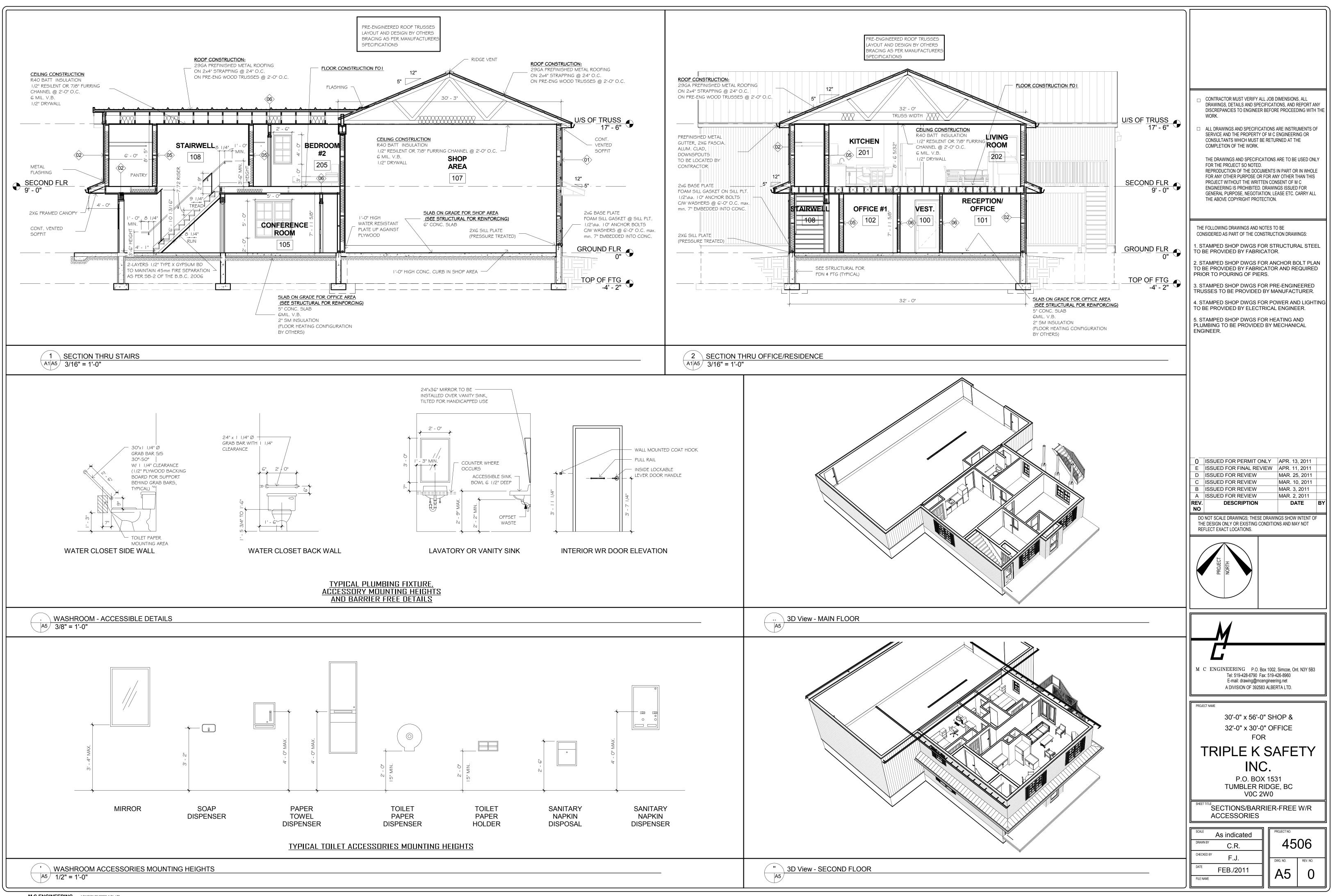


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 CONTRACTOR MUST VERIFY ALL DRAWINGS, DETAILS AND SPECIF DISCREPANCIES TO ENGINEER B WORK. ALL DRAWINGS AND SPECIFICAT SERVICE AND THE PROPERTY OF CONSULTANTS WHICH MUST BE COMPLETION OF THE WORK. THE DRAWINGS AND SPECIFICAT FOR THE PROJECT SO NOTED. REPRODUCTION OF THE WORK. THE DRAWINGS AND SPECIFICAT FOR THE PROJECT SO NOTED. REPRODUCTION OF THE DOCUMI FOR ANY OTHER PURPOSE OR FI PROJECT WITHOUT THE WRITTEL ENGINEERING IS PROHIBITED. DF GENERAL PURPOSE, NEGOTIATIC THE ABOVE COPYRIGHT PROTECT THE FOLLOWING DRAWINGS AND NOT CONSIDERED AS PART OF THE CONST STAMPED SHOP DWGS FOF TO BE PROVIDED BY FABRICA 	TICATIONS, AND REPORT ANY DEFORE PROCEEDING WITH THE HONS ARE INSTRUMENTS OF THE CENGINEERING OR RETURNED AT THE TIONS ARE TO BE USED ONLY ENTS IN PART OR IN WHOLE OR ANY OTHER THAN THIS N CONSENT OF M C RAWINGS ISSUED FOR DN, LEASE ETC. CARRY ALL TION. TES TO BE TRUCTION DRAWINGS: R STRUCTURAL STEEL ATOR. R ANCHOR BOLT PLAN ATOR AND REQUIRED S. R PRE-ENGINEERED Y MANUFACTURER. R POWER AND LIGHTING ICAL ENGINEER. R HEATING AND
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M C ENGINEERING P.O. Box Tel: 519-428-6790 Fax: E-mail: drawing@mceny A DIVISION OF 392583 PROJECT NAME 30'-0" x 56'-0" 32'-0" x 30'-0" FOR TRIPLE K S INC P.O. BOX TUMBLER RII VOC 2V SHEET TITLE ELEVATIONS	SHOP & OFFICE SAFETY 1531 DGE, BC V0
C.R/S.K. CHECKED BY F.J. DATE FILE NAME	4506 DWG. NO. A30



MCENGINEERING A DIVISION OF 392583 ALTA. LTD.



MCENGINEERING A DIVISION OF 392583 ALTA. LTD.

							DOOR SCHEDL	ULE #1						
		LOCATION		_			JOR		FRAME					
R NUMBER	FROM	ТО		DOOR SIZE	E DOOR SWING	QT MATERIAL	GLAZING/ FINISH GRILLE		FINISH	SIDELITE/ Transom Thresold	FIRE RATING	HARDWARE	DOOR NUMBER	COMMENTS
	VEST.	EXTERIOR		3'-0" x 7'-0"	LH	1 ALUMINUM	CLEAR ANODIZED FULL	ALUMINUM	CLEAR ANODIZED			HINGES, LOCKSET, CLOSURE		AUTO OPERATOR
	RECEPTION/ OFFICE	VEST.		3'-0" x 7'-0"	LH	1 ALUMINUM	CLEAR ANODIZED FULL	ALUMINUM	CLEAR ANODIZED			HINGES, LOCKSET, CLOSURE		AUTO OPERATOR
	CONFERENCE ROOM RECEPTION/ OFFICE	RECEPTION/ OF OFFICE #1	-ICE	3'-0" x 6'-8"	RH RH	1 ALUMINUM 1 SOLID COREWOOD	CLEAR ANODIZED FULL STAINED	ALUMINUM HM	CLEAR ANODIZED STAINED	ALUMINUM		HINGES, LATCHSET HINGES, LOCKSET	D101 D102	
	OFFICE #2	CONFERENCE F	OOM	3'-0" x 6'-8" 3'-0" x 6'-8"	LH	1 SOLID COREWOOD	STAINED	HM	STAINED			HINGES, LOCKSET	D102	
	CONFERENCE ROOM	B.F. W/R		3'-0" x 6'-8"	LH	1 SOLID COREWOOD	STAINED	HM	STAINED			HINGES, PRIVACY SET, BF SYMBOL, CLOSURE	D104	
5 \$	SHOP AREA	CONFERENCE F	OOM	3'-0" x 6'-8" - 1.5HF	R RH	1 HOLLOW METAL	PAINTED	НМ	PAINTED		1.5HR	HINGES, LOCKSET	D105	
	CONFERENCE ROOM	STAIRWELL		3'-0" x 6'-8" 45MIN		1 HOLLOW METAL	PAINTED	НМ	PAINTED		45MIN.	HINGES, LOCKSET	D105a	
	CLOSET		OOM	4'-0" x 6'-8" (BYFO	,	1 WOOD	STAINED	WOOD	STAINED			HINGES, KNOBS	D105b	
	W/R EXTERIOR	SHOP AREA SHOP AREA		3'-0" x 6'-8" 3'-0" x 7'-0"	RH RH	1 HOLLOW METAL 1 HOLLOW METAL	PAINTED PAINTED	HM HM	PAINTED PAINTED	BRONZE		HINGES, PRIVACY SET HINGES, LOCKSET	D106 D107	
	EXTERIOR	SHOP AREA		14'-0" x 14'-0"	N/A	1 INSULATED STEEL O/H		BENT PLATE		DRUNZE		WEATHERSTRIPPING	D107	
	SHOP AREA	EXTERIOR		3'-0" x 7'-0"	LH	1 INSULATED HOLLOW METAL	PAINTED	HM	PAINTED	BRONZE		HINGES, LOCKSET, DEADBOLT	D107b	
	STAIRWELL	EXTERIOR		3'-0" x 7'-0"	RH	1 INSULATED HOLLOW METAL		НМ	PAINTED	BRONZE		HINGES, LOCKSET	D108	
	CLOSET	STAIRWELL		3'-0" x 6'-8" (BYFO	DLDS) N/A	1 WOOD	STAINED	WOOD	STAINED			HINGES, KNOBS	D108a	
	HALLWAY	HALLWAY		3'-0" x 7'-0"	RH	1 HOLLOW METAL	PAINTED	HM	PAINTED			HINGES, LATCHSET	D200	
	CLOSET	HALLWAY		3'-0" x 6'-8" (BYFO	,		STAINED	WOOD	STAINED			HINGES, KNOBS	D200a	
	CLOSET PANTRY-	HALLWAY KITCHEN		1'-6" x 6'-8" 2'-8" x 6'-8"	LH RH	1 HOLLOW WOOD 1 HOLLOW WOOD	PAINTED PAINTED	WOOD WOOD	PAINTED PAINTED			HINGES, LATCHSET HINGES, LATCHSET	D200b D201	
	LIVING ROOM	BEDROOM #1		2-0 x 0-0 3'-0" x 6'-8"	RH	1 HOLLOW WOOD	PAINTED	WOOD	PAINTED			HINGES, LOCKSET	D201	
	CLOSET	BEDROOM #1		4'-0" x 6'-8" (BYFO		1 WOOD	STAINED	WOOD	STAINED			HINGES, KNOBS	D203a	
	BEDROOM #1	W/R #1		2'-6" x 6'-8"	LH	1 HOLLOW WOOD	PAINTED	WOOD	PAINTED			HINGES, PRIVACY SET	D204	
	EXTERIOR	BEDROOM #2		3'-0" x 7'-0"	LH	1 HOLLOW WOOD	PAINTED	WOOD	PAINTED			HINGES, LOCKSET	D205	
	CLOSET	BEDROOM #2		4'-0" x 6'-8" (BYFO	,	1 WOOD	STAINED	WOOD	STAINED			HINGES, KNOBS	D205a	
	BEDROOM #2	W/R #2		2'-6" x 6'-8"		1 WOOD	PAINTED	WOOD	PAINTED			HINGES, PRIVACY SET	D206	
′ I	LIVING ROOM	EXTERIOR		DOORS	" FRENCH LH & RH	1 SOLID COREWOOD	STAINED	WOOD	STAINED			HINGES, LOCKSET, DEADBOLT	D207	
LEFT HAND		EFT HAND REVERSE RIGH	0		AND PLANS FOR SIZES DULE TO READ AS WIDTH x HEIGHT TION ON PLAN OR SCHEDULE									
LEFT HAND		OF	0	- REFER TO SCHEDULES A - SIZES NOTED ON SCHEE	DULE TO READ AS WIDTH x HEIGHT									
		EFT HAND REVERSE RIGH	0	- REFER TO SCHEDULES A - SIZES NOTED ON SCHEE	DULE TO READ AS WIDTH x HEIGHT	ROOM FINISH SCHEDULE	CEILING FINISH	CELIING HEIG	IT AREA		COMMENTS			
RODM NO.	RDDM NAME	EFT HAND REVERSE RIGH	T HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH	DULE TO READ AS WIDTH × HEIGHT TION ON PLAN OR SCHEDULE WALL FI	NISH	CEILING FINISH				COMMENTS			
	RIGHT HAND LE	EFT HAND REVERSE RIGH	FOR THAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT	DULE TO READ AS WIDTH x HEIGHT TION ON PLAN OR SCHEDULE	NISH		CELIING HEIG 7' - 11 5/8 7' - 11 5/8	" 37 SF		COMMENTS			
RDDM ND. 100	RODM NAME	EFT HAND REVERSE RIGH	T HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER	DULE TO READ AS WIDTH × HEIGHT TION ON PLAN OR SCHEDULE WALL FI	NISH /	CEILING FINISH	7' - 11 5/8	" 37 SF " 185 SF		COMMENTS			
ROOM NO. 100 101 102 103	RIGHT HAND LE RIGHT HAND LE RUDM NAME VEST. RECEPTION/ OF OFFICE #1 OFFICE #2	EFT HAND REVERSE RIGH	T HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER	DULE TO READ AS WIDTH × HEIGHT TION ON PLAN OR SCHEDULE WALL FI DV DV DV DV	NISH / / /	CEILING FINISH DW DW DW DW	7' - 11 5/8 7' - 11 5/8 7' - 11 5/8 7' - 11 5/8 7' - 11 5/8	" 37 SF " 185 SF " 112 SF " 94 SF		COMMENTS			
RDDM ND. 100 101 102 103 104	RIGHT HAND LE RIGHT HAND LE ROOM NAME VEST. RECEPTION/ OF OFFICE #1 OFFICE #2 B.F. W/R	EFT HAND REVERSE RIGH	I HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER	DULE TO READ AS WIDTH × HEIGHT TION ON PLAN OR SCHEDULE WALL FI DV DV DV DV DV DV	NISH	CEILING FINISH DW DW DW DW DW DW	7' - 11 5/8 7' - 11 5/8	" 37 SF " 185 SF " 112 SF " 94 SF " 75 SF		COMMENTS			
ROOM NO. 100 101 102 103 104 105	RIGHT HAND LE RIGHT HAND LE ROOM NAME VEST. RECEPTION/ OF OFFICE #1 OFFICE #2 B.F. W/R CONFERENCE F	FFICE BY BY ROOM BY	I HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER BY OWNER	DULE TO READ AS WIDTH × HEIGHT TION ON PLAN OR SCHEDULE WALL FI DV DV DV DV DV DV DV DV	NISH	CEILING FINISH DW DW DW DW DW DW DW DW	7' - 11 5/8 7' - 11 5/8	" 37 SF " 185 SF " 112 SF " 94 SF " 75 SF " 273 SF		COMMENTS			
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ROOM NO. 100 101 102 103 104 105 106 107	RIGHT HAND LE RIGHT HAND LE ROOM NAME VEST. VEST. RECEPTION/ OF OFFICE #1 OFFICE #1 OFFICE #2 B.F. W/R B.F. W/R CONFERENCE F W/R SHOP ARE/ STAIRWELI HALLWAY	FICE BY BY PFICE BY BY ROOM BY A (L BY BY	I HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER BY OWNER	DULE TO READ AS WIDTH * HEIGHT TION ON PLAN OR SCHEDULE WALL FI DV DV DV DV DV UV V V V V V V V V V V V	NISH ////////////////////////////////////	CEILING FINISH DW	7' - 11 5/8 7' - 11 5/8 17' - 4 5/8 17' - 4 5/8 8' - 5"	" 37 SF " 185 SF " 112 SF " 94 SF " 75 SF " 273 SF " 22 SF " 22 SF " 1544 SF " 52 SF 116 SF					
ROOM NO. 100 101 102 103 104 105 106 107 108 200 201	RIGHT HAND LE RIGHT HAND LE RUDM NAME VEST. VEST. RECEPTION/ OF OFFICE #1 OFFICE #1 OFFICE #2 B.F. W/R B.F. W/R CONFERENCE F W/R SHOP ARE/ SHOP ARE/ STAIRWELI HALLWAY KITCHEN	EFT HAND REVERSE RIGH	I HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER BY OWNER	DULE TO READ AS WIDTH * HEIGHT TION ON PLAN OR SCHEDULE WALL FI DV DV DV DV QV QV QV 4'-0" HT PLYWOOD, DV DV QV QV QV QV QV QV QV QV QV QV QV QV QV	NISH ////////////////////////////////////	CEILING FINISH DW	7' - 11 5/8 7' - 11 5/8 17' - 4 5/8 17' - 4 5/8 8' - 5" 8' - 5"	" 37 SF " 185 SF " 112 SF " 94 SF " 75 SF " 273 SF " 273 SF " 22 SF " 1544 SF " 52 SF 116 SF 182 SF					
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RDDM ND. 100 101 102 103 104 105 106 107 108 200 201 202	RIGHT HAND LE RIGHT HAND LE RUDM NAME RUDM NAME VEST. RECEPTION/ OF OFFICE #1 OFFICE #1 OFFICE #2 B.F. W/R B.F. W/R CONFERENCE F W/R SHOP ARE/ SHOP ARE/ STAIRWELI HALLWAY KITCHEN LIVING ROO	EFT HAND REVERSE RIGH	I HAND REVERSE	- REFER TO SCHEDULES A - SIZES NOTED ON SCHED - CONFIRM SWING DIRECT BASE FINISH BY OWNER BY OWNER	DULE TO READ AS WIDTH * HEIGHT TION ON PLAN OR SCHEDULE WALL FI DV DV DV DV DV 4'-0" HT PLYWOOD, DV DV DV QU DV DV DV DV DV DV DV DV DV DV DV DV DV	NISH	CEILING FINISH DW	7' - 11 5/8 7' - 11 5/8 17' - 4 5/8 17' - 4 5/8 8' - 5" 8' - 5"	" 37 SF " 185 SF " 112 SF " 94 SF " 75 SF " 273 SF " 273 SF " 22 SF " 1544 SF " 52 SF 116 SF 182 SF 226 SF					
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 CONTRACTOR MUST VERIFY ALL JOB DIMENSIONS, ALL DRAWINGS, DETAILS AND SPECIFICATIONS, AND REPORT ANY DISCREPANCIES TO ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF M C ENGINEERING OR CONSULTANTS WHICH MUST BE RETURNED AT THE COMPLETION OF THE WORK. THE DRAWINGS AND SPECIFICATIONS ARE TO BE USED ONLY FOR THE PROJECT SO NOTED. REPRODUCTION OF THE DOCUMENTS IN PART OR IN WHOLE FOR ANY OTHER PURPOSE OR FOR ANY OTHER THAN THIS PROJECT WITHOUT THE WRITTEN CONSENT OF M C ENGINEERING IS PROHIBITED. DRAWINGS ISSUED FOR GENERAL PURPOSE, NEGOTIATION, LEASE ETC. CARRY ALL THE ABOVE COPYRIGHT PROTECTION.
THE FOLLOWING DRAWINGS AND NOTES TO BE CONSIDERED AS PART OF THE CONSTRUCTION DRAWINGS:
0 ISSUED FOR PERMIT ONLY APR. 13, 2011 E ISSUED FOR FINAL REVIEW APR. 11, 2011 D ISSUED FOR REVIEW MAR. 25, 2011 C ISSUED FOR REVIEW MAR. 10, 2011 B ISSUED FOR REVIEW MAR. 3, 2011 A ISSUED FOR REVIEW MAR. 2, 2011 REV. DESCRIPTION DATE NO DO NOT SCALE DRAWINGS; THESE DRAWINGS SHOW INTENT OF THE DESIGN ONLY OR EXISTING CONDITIONS AND MAY NOT REFLECT EXACT LOCATIONS.
M C ENGINEERING P.O. Box 1002, Simcoe, Ont. N3Y 5B3 Tel: 519-428-6790 Fax: 519-426-8960 E-mail: drawing@mcengineering.net A DIVISION OF 392583 ALBERTA LTD.
PROJECT NAME 30'-0" x 56'-0" SHOP & 32'-0" x 30'-0" OFFICE FOR TRIPLE K SAFETY INC. P.O. BOX 1531 TUMBLER RIDGE, BC VOC 2W0 SHEET TITLE DOOR, ROOM & WINDOW SCHEDULES
SCALE 1/4" = 1'-0" DRAWN BY C.R. CHECKED BY F.J. DATE FEB./2011 FILE NAME PROJECT NO.

DIVISION OI : GENERAL

GENERAL CONTRACT NOTES

00. CONTRACT DOCUMENTS - WORK WILL BE PERFORMED UNDER ONE CONTRACT; THE CONTRACT WILL BE IN THE FORM OF A COMPLETED AGREEMENT.

01. GENERAL CONDITIONS - THE GENERAL CONDITIONS OF THE CONTRACT WILL GOVERN THE PERFORMANCE OF EACH SECTION OF THE SPECIFICATIONS

02. WORK IN THE SPECIFICATIONS IS DIVIDED INTO DESCRIPTIVE SECTIONS WHICH ARE NOT INTENDED TO IDENTIFY ABSOLUTE CONTRACTUAL LIMITS BETWEEN SUBCONTRACTORS. THE CONTRACTOR SHALL ORGANIZE DIVISION OF LABOR AND SUPPLY OF MATERIALS ESSENTIAL TO COMPLETE THE PROJECT IN ALL OF ITS PARTS AND PROVIDE A TOTAL ENCLOSURE AND PROTECTION FROM WEATHER OF INTERIOR SPACES, AS ESTABLISHED IN THE GENERAL CONDITIONS OF THE CONTRACT.

03. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "PROVIDE" IS USED IN ANY FORM, IT SHALL MEAN THAT THE WORK CONCERNED SHALL INCLUDE BOTH SUPPLY AND INSTALLATION OF THE PRODUCTS REQUIRED FOR COMPLETION SPECIFIED WORK TO WHICH REFERENCE IS MADE.

04. WHEREVER IN THE SPECIFICATIONS IT IS SPECIFIED THAT WORK SHALL BE REPAIRED, MADE GOOD OR REPLACED, IT SHALL BE PERFORMED WITHOUT ANY ADDITIONAL COST TO THE OWNER.

05. DETERMINE ACCURATE LOCATIONS ARRANGEMENTS AND SIZES BY STUDY AND COORDINATION OF ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND EQUIPMENT SHOP DRAWINGS, BEFORE PROCEEDING WITH THE WORK, ENSURE THAT SPACES AND ARRANGEMENTS WHICH AFFECT INSTALLATIONS ARE ADEQUATE AND COORDINATED. WHERE CONSTRUCTION CONDITIONS REQUIRE REASONABLE REVISIONS TO INDICATED LOCATIONS AND ARRANGEMENTS, MAKE SUCH REVISIONS AT NO ADDITIONAL COST TO THE OWNER.

OG. EXAMINATION: EXAMINE SITE AND ENSURE THAT EACH SECTION PERFORMING WORK RELATED TO SITE CONDITIONS HAS EXAMINED IT, SO THAT ALL ARE FULLY INFORMED OF ALL PARTICULARS WHICH AFFECT PROJECT WORK. BEFORE COMMENCING INSTALLATION OF WORK. VERIFY THAT ITS LAYOUT IS ACCURATE IN ACCORDANCE WITH INTENT OF DRAWINGS, AND THAT POSITIONS LEVELS AND CLEARANCES TO ADJACENT WORK ARE MAINTAINED. BEFORE COMMENCING ANY WORK, VERIFY THAT ALL CLEARANCES REQUIRED BY JURISDICTIONAL AUTHORITIES CAN BE MAINTAINED.

07. WORK PERFORMED UNDER SEPARATE CONTRACTS: WORK NOT TO BE INCLUDED IN THE CONTRACT IS NOTED (NIC) ON THE DRAWINGS AND SHALL BE GOVERNED BY THE GENERAL CONDITIONS OF THE CONTRACT.

08. PROTECTION: PROVIDE NECESSARY METHODS, MATERIALS, AND CONSTRUCTION TO ENSURE THAT NO DAMAGE OR HARM TO WORK, MATERIALS, PROPERTY AND PERSONS RESULT FROM THE WORK OF THIS CONTRACT.

09. UTILITIES AND SERVICES: VERIFY LOCATION OF AND LIMITATIONS IMPOSED BY EXISTING MECHANICAL, ELECTRICAL, TELEPHONE AND SIMILAR SERVICES, AND PROTECT THEM FROM DAMAGE. IF NECESSARY, RELOCATE ACTIVE SERVICES TO ENSURE THAT THEY FUNCTION CONTINUOUSLY IN SAFETY AND WITHOUT RISK OF DAMAGE. CAP OFF AND REMOVE UNUSED UTILITY SERVICES ENCOUNTERED DURING WORK AFTER APPROVAL IS GIVEN BY THE UTILITIES CONCERNED OR JURISDICTIONAL AUTHORITIES, WHICHEVER MAY APPLY.

I O. OWNER OCCUPANCY: THE OWNER RESERVES THE RIGHT TO OCCUPY AND USE PORTIONS OF THE PREMISES, WHETHER COMPLETED ON SCHEDULE OR NOT, PROVIDED SUCH OCCUPANCY DOES NOT INTERFERE WITH THE CONTRACTOR'S CONTINUING WORK.

II. COORDINATION: COORDINATION OF THE WORK OF ALL SECTIONS OF THE SPECIFICATIONS AS REQUIRED TO COMPLETE THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR.

I 2. CUTTING AND PATCHING: CUT AND PATCH AND MAKE GOOD TO ACCOMMODATE WORK AND TO LEAVE IN FINISHED CONDITION. CUTTING IN THIS SENSE SHALL MEAN ACTUAL CUTTING OF COMPONENTS TO PASS THROUGH OR TO PROVIDE NEW OPENINGS.

13. JURISDICTIONAL AUTHORITIES: REQUIREMENTS OF JURISDICTIONAL AUTHORITIES SHALL APPLY WORK IN PRECEDENCE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. EXCEPT THAT MORE STRINGENT REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

14. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR WHICH SUBMISSION IS REQUIRED IN OTHER SECTIONS OF THE SPECIFICATIONS OR AS MAY BE RESPONSIBLY REQUESTED BY THE ENGINEER TO ENSURE PROPER PERFORMANCE OF THE WORK. SUBMIT SHOP DRAWINGS BY JURISDICTIONAL AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS.

15. PROJECT RECORD DRAWINGS: RECORD, AS THE WORK PROGRESSES, WORK CONSTRUCTED DIFFERENTLY THAN SHOWN ON CONTRACT DOCUMENTS. ACCURATELY RECORD LOCATION OF CONCEALED STRUCTURE, MECHANICAL AND ELECTRICAL SERVICES, PIPING, VALVES, CONDUITS, PULL BOXES, JUNCTION BOXES AND SIMILAR WORK NOT CLEARLY IN VIEW, THE POSITION OF WHICH IS REQUIRED FOR MAINTENANCE, ALTERATION WORK AND FUTURE ADDITIONS. SUBMIT RECORD DRAWINGS WITH APPLICATION FOR CERTIFICATE OF SUBSTANTIAL PERFORMANCE.

I G. QUALITY CONTROL: INSPECTION AND TESTING MAY BE CONDUCTED AT OWNER'S EXPENSE. PAYMENT FOR SUCH INSPECTION AND TESTING SERVICES WILL BE MADE BY OWNER. THE ENGINEER WILL INFORM THE CONTRACTOR BY LETTER OF INSPECTION AND TESTING PERSONAL COMPANIES TO BE ENGAGED. THE CONTRACTOR SHALL PROVIDE ACCESS FOR INSPECTION AND TESTING PERSONNEL TO WORK IN PROGRESS AND TO FABRICATORS OPERATIONS AS MAY BE REQUIRED.

17. CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS: INCLUDE IN THE WORK, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS REQUIRED AS CONSTRUCTION AIDS AND BY JURISDICTIONAL AUTHORITIES.

18. SECURITY: MAINTAIN SECURITY OF CONSTRUCTION BY THE CONTROL OF ACCESS THROUGH ENCLOSING FENCES, BARRICADES AND HOARDING DURING TIMES WORK IS IN PROGRESS, AND BY MAINTAIN SECURITY OF PREMISES AT ALL TIMES.

GENERAL CONSTRUCTION NOTES

THE BUILDING AND STRUCTURES DESCRIBED ON THESE DRAWINGS IS DESIGNED AND IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2006 BUILDING CODE COMPENDIUM AND ALL APPLICABLE REFERENCE STANDARDS.

OO. ARCHITECTURAL DRAWINGS SHALL BE READ WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CONTRACT DOCUMENTS.

OI. ALL DIMENSIONS, LEVELS AND DETAILS SHALL BE CHECKED AND ANY DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF THE WORK.

02. DRAWINGS MUST NOT BE SCALED.

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03. THE STRUCTURE DESCRIBED ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE O.B.C. OF CANADA.

04. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.

05. CHECK ALL ELEVATIONS, DIMENSIONS AND DETAILS FOR CONFORMANCE WITH ARCHITECTURAL DRAWINGS.

OG. DESIGN OF FORM WORK IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE PREPARED BY A PROFESSIONAL ENGINEER. STRIPPING AND RESHORING SCHEDULE AND DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND APPROVAL OBTAINED BEFORE PROCEEDING WITH THE WORK.

07. PROVIDE TEMPORARY BRACING, SUPPORTS AND/OR OTHER INSTALLATIONS NECESSARY TO MAINTAIN PLUMPNESS, TRUE ALIGNMENT AND STABILITY OF THE STRUCTURE AND ALL ITS PARTS THROUGHOUT THE ERECTION STAGES.

08. ERECT, MAINTAIN AND IF REQUIRED, REMOVE A SUPPORTING SHORING SYSTEM ALONG THE SIDES OF THE EXCAVATION. DESIGN SUCH SYSTEM AND COORDINATE INSTALLATION PROCEDURES WITH THE ENGINEER BEFORE PROCEEDING WITH THE WORK

DIVISION 02 : SITE WORK

00200 - SITE PREPARATION

00. COORDINATE CLEARING WORK WITH UTILITY COMPANIES AND OWNER.

OI. CONFORM TO APPLICABLE CODE FOR DISPOSAL OF DEBRIS.

02. PROTECT DESIGNATED TREES AND PLANTS. COORDINATE WITH OWNER.

03. CLEAR AREAS REQUIRED FOR ACCESS TO SITE AND EXECUTION OF WORK.

04 EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED RELANDSCAPED OR REGRADE AND STOCKPILE IN AREA DESIGNATED ON SITE.

05. TOLERANCES : TOP SURFACE OF SUB GRADE - PLUS OR MINUS I".

OG. GRADE SOIL, ELIMINATING UNEVEN AREAS AND LOW SPOTS, ENSURING POSITIVE DRAINAGE.

07. FINE GRADE AND LOOSEN TOPSOIL. ELIMINATE ROUGH SPOTS AND LOW AREAS TO ENSURE POSITIVE DRAINAGE.

08. DISPOSE OF MATERIALS NOT REQUIRED OFF SITE.

02200 - EXCAVATION SUPPORT AND PROTECTION

00. EXCAVATE SUBSOIL REQUIRED TO ACCOMMODATE BUILDING FOUNDATIONS, PAVING, SITE STRUCTURES AND CONSTRUCTION OPERATIONS.

OI. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR BETWEEN EXCAVATIONS FOR FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10.

02. WALLS RETAINING EARTH SHALL NOT BE BACKFILLED UNTIL ADEQUATE SUPPORT IS PROVIDED AT TOP AND BOTTOM BY FLOOR CONSTRUCTION. WALLS BELOW GRADE SHALL BE BACK FILLED SIMULTANEOUSLY ON BOTH SIDES.

03. ALL FOOTINGS SHALL BE CENTRALLY LOCATED UNDER COLUMNS, PIERS AND WALLS UNLESS SHOWN OTHERWISE.

04. APPROVAL OF THE ARCHITECT AND/OR ENGINEER SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY OPENINGS, SLEEVES, TRENCHES, ETC. WHICH ARE NOT SHOWN ON THE DRAWINGS.

05. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS DURING CONSTRUCTION OF TEMPORARY BRACING OF FLOORS, WALLS, AND DECKS AND ANY OTHER STRUCTURAL ELEMENTS TO KEEP THE STRUCTURE SAFE AND IN TRUE ALIGNMENT UNTIL COMPLETION OF WORK.

OG. SHORING FOR EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE ARCHITECT AND/OR ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.

07. AT FOOTINGS, PROVIDE BOND BEAM LINTELS OVER DRAINAGE PIPES, ETC. REINFORCED WITH 2-15 T#B AND FILLED WITH 17 MPA CONCRETE.

08. OBTAIN ALL REQUIREMENTS REGARDING MECHANICAL (INCLUDING DRAINAGE). ELECTRICAL, HOISTING, INSTALLATIONS AND EQUIPMENT, PERMANENT AND TEMPORARY. SUBMIT SUCH REQUIREMENTS TO THE ENGINEER FOR REVIEW AS TO THEIR EFFECT ON THE STRUCTURE. OBTAIN HIS INSTRUCTIONS BEFORE PROCEEDING WITH WORK.

09. DESIGN, ERECT, MAINTAIN, AND REMOVE ALL TEMPORARY WORKS. COORDINATE SUCH WORKS WITH THE ENGINEER BEFORE PROCEEDING.

I.O. EXCAVATION AND FOUNDATION WORK SHALL CONFORM TO THE CURRENT EDITION OF O.B.C. OF CANADA SECTION 4.2.

I . MAINTAIN UNSUPPORTED SIDES OF EXCAVATION ONLY IF SAFE INCLINATION OF THE SIDES OF THE EXCAVATION IS PROVIDED.

I 2. FOUNDING ELEVATIONS SHOWN ON DRAWINGS ARE THOSE INFERRED FROM SOURCES INDICATED ON DRAWINGS. ACTUAL SOIL PROPERTIES IN SPECIFIC LOCATIONS MAY VARY FROM THOSE INFERRED AND ADJUSTMENT OF THE FOUNDING ELEVATION MAY BE NECESSARY.

13. FILL MATERIALS :

- TYPE I EXISTING INORGANIC MATERIAL, EXCAVATED NATIVE MATERIAL MAY BE REUSED IF KEPT DRY AND NOT EXPOSED TO MOISTURE AND CAN BE SHOWN TO BE CAPABLE OF COMPACTION TO
- REQUIRED STANDARD PROCTOR MAXIMUM DENSITY.
- TYPE 2 GRANULAR "A" CONFORMING TO OPSS 1010
- TYPE 3 GRANULAR "B" CONFORMING TO OPSS 1010 TYPE 4 - CLEAR, CRUSHER RUN LIMESTONE, 3/4" SIZE
- TYPE 5 GRANULAR "C" CONFORMING TO OPSS 1010 SAND - CLEAN WASHED, COARSE SAND FREE FROM CLAY, SHALE AND
- ORGANIC MATTER.

14. GRANULAR FILL : PLACE AND COMPACT MATERIALS IN CONTINUOUS LAYERS NOT EXCEEDING 8" COMPACTED DEPTH.

15. SCHEDULE

INTERIOR SLAB ON GRADE -

COMPACT SUB GRADE TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY. COVER WITH TYPE 3 FILL IN 8" MAXIMUM LIFTS, COMPACTED TO 98% SPMDD. FINAL 8" DIRECTLY BELOW SLAB - TYPE 2 FILL. FOOTING & FND - TYPE I SUB GRADE TO 90% STANDARD PROCTOR MAXIMUM DENSITY.

2300 - EARTHWORK

00. DESIGN OF THE FOUNDATIONS HAS BEEN BASED ON AN ALLOWABLE SOIL BEARING CAPACITY 3000 PSF (ASSUMED).

01. ALL FOOTINGS SHALL BE PLACED ON NATURALLY CONSOLIDATED UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING THE ASSUMED SOIL BEARING CAPACITY INDICATED IN OO. THE CAPACITY OF THE SOIL AFTER EXCAVATION SHALL BE EXAMINED BY THE ENGINEER AND THEIR ACCEPTANCE SHALL BE OBTAINED PRIOR TO PLACING OF FOOTINGS.

04. BACK FILL SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS TO SLAB ON GRADE.

OI. FOOTING ELEVATIONS ARE BASED ON ESTIMATE ONLY, IF UPON EXCAVATING TO THE SPECIFIED ELEVATIONS IT IS FOUND THAT THE ABOVE CONDITIONS ARE NOT MET OR THAT THEY HAVE BEEN MET AT HIGHER ELEVATIONS, THE FOOTING ELEVATION MAY BE ADJUSTED WITH THE ENGINEER'S PERMISSION.

02. MINIMUM DEPTH FOR EXTERIOR FOOTINGS IS 4'-0" (1200 MM) BELOW FINISHED GRADE (OR AS PER AUTHORITY HAVING JURISDICTION).

03. CENTER ALL CAPS AND FOOTING UNDER COLUMNS EXCEPT AS NOTED OTHERWISE ON PLANS.

I O. BACK FILLING AGAINST FOUNDATION WALLS TO BE DONE SO THAT THERE IS NEVER MORE THAN 1'-6" (450 MM) DIFFERENCE IN LEVEL, ONE SIDE TO THE OTHER, EXCEPT AS NOTED IN PARAGRAPH 09. ABOVE.

I I . SEE ARCHITECTURAL DRAWINGS FOR THICKNESS OF SLAB ON GRADE (UNLESS NOTED ON STRUCTURAL DRAWINGS), RECESSES, DEPRESSIONS, PITS, ETC. MAINTAIN SLAB THICKNESS SHOWN.

I 2. WHERE SLAB ON GRADE IS USED TO TIE THE TOP OF THE WALL RETAINING EARTH, ADEQUATE SHORING AND BRACING MUST BE PROVIDED WHILE FILL IS BEING PLACED AND COMPACTED. AND IT MUST BE LEFT IN PLACE UNTIL SLAB IS POURED AND HAS GAINED 75% OF ITS ULTIMATE STRENGTH.

13. ANCHOR ALL CONCRETE BLOCK FOUNDATION WALLS TO CONCRETE PIERS WITH 2-10 M x 4'-0" (1200 MM) EVERY SECOND BLOCK COURSE. CAVITIES WITH BARS FILLED SOLID WITH GROUT

MATERIAL.

PRIMING

07. FORM CURBS TO PROFILES SHOWN.

02. ALL FOOTINGS EXPOSED TO FROST ACTION DURING CONSTRUCTION SHALL BE PROTECTED BY 4'-0" (1200 MM) OF EARTH OR ITS EQUIVALENT INSULATING VALUE FOOTINGS SHALL BE CARRIED DOWN TO NATURAL SOIL FREE OF ORGANIC MATTER AND CAPABLE OF SUSTAINING 3000 PSF AT LEAST 1'-4" (400 MM) INTO EXISTING (ORIGINAL) SOIL. SOIL AT THE UNDERSIDE OF THE FOOTINGS IS TO BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING CONCRETE FOOTINGS.

03. PROVIDE BOND BEAM LINTELS OVER DRAINAGE PIPES REINFORCED WITH 2-15 T & B AND FILLED WITH 17 MPA CONCRETE.

02400 - FOUNDATION AND LOAD-BEARING ELEMENTS

00. ALL FOOTINGS SHALL BE FOUNDED ON NATURALLY CONSOLIDATED UNDISTURBED SOIL CAPABLE OF SUSTAINING LOAD (SEE PLAN) AT LEAST 2'-6" (750MM) BELOW ORIGINAL (NOT FILL) GRADE.

04. DURING COLD WEATHER, PROTECT SOIL BENEATH AND ADJACENT TO THE FOOTINGS FROM FREEZING.

05. A MAXIMUM SLOPE OF 7 VERTICAL TO 10 HORIZONTAL SHALL BE MAINTAINED ALONG STEPPED FOOTINGS OR BETWEEN THE BOTTOMS OF ADJACENT FOOTINGS OR EXCAVATIONS AT THEIR NEAREST POINTS.

06. WHERE NECESSARY CONTRACTOR SHALL LOWER FOOTINGS TO ACCOMMODATE DRAIN LINES, ETC.

07. PROVIDE FOOTINGS FOR ALL WALLS THICKER THAN 6" (150 MM), WALLS 6" (150 MM) OR LESS SHALL SIT ON THICKENED FLOOR SLAB.

08. PLACE SLAB ON GRADE ON MATERIAL CAPABLE OF SUSTAINING 500 PSF (24 KN/SM) WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOOTINGS.

09. DO NOT PLACE BACK FILL AGAINST WALLS RETAINING EARTH (UNLESS DESIGNED FOR CANTILEVER) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM OF WALLS IS SET.

14. ALL WALL FOOTING 4" (100 MM) PROJECTION AND 8" (200 MM) DEPTH UNLESS NOTED OTHERWISE ON PLANS.

02500 - SEPTIC TANK SYSTEMS - TO BE PROVIDED BY SUPPLIERS

02600 - DRAINAGE AND CONTAINMENT - SEE 20200

02700 - BASE, BALLASTS, PAVEMENTS, AND APPURTENANCES

00. VERIFY COMPACTED SUB GRADE IS DRY AND READY TO SUPPORT BASE, PAVING AND IMPOSED LOADS.

01. PLACE SUN-BASE (TYPE 1 OR 3 BACK FILL) AND BASE MATERIAL (TYPE 2 BACK FILL) AND COMPACT TO 100 % SPD.

02. BACK FILL AREAS AROUND CATCH BASINS WITH FREE DRAINING GRANULAR

03. APPLY PRIMER (CAN2-16.1, GRADE MC-70) OVER GRANULAR BASE.

04. PLACE BINDER COURSE (MTC, FORM 310, HL-4) WITHIN 24 HOURS OF

05. PLACE TOPPING COURSE (MTC, FORM 310, HL-3, HL-3A) WITHIN TWO HOURS OF BINDING COURSE.

06. SCORE CONCRETE PAVING INTO PANELS AS SHOWN AND/OR DIRECTED.

02800 - SITE IMPROVEMENTS AND AMENITIES - N/A BY OWNER

02800 - RETAINING WALL

CLEAN OUTS

00. CONCRETE AND REINFORCING STEEL - SEE STRUCTURAL DWGS

OI. DRAINAGE PIPES AND FITTINGS -- 6" PERFORATED RIGID PVC

> - NON-PERFORATED PIPES FOR SUMP COLLECTORS - WHERE PIPES PASS THROUGH TRANSFER PORTS SHARED COMPLETE WITH COUPLINGS AND FITTINGS - THREAD PIPES AS NECESSARY TO ACCEPT

02. FIBROUS PLASTIC FILTER FABRIC - POLYFELT TS600 OR TERRATIX 270R BY TERRATIX FILTER FABRICS INC. OR EQUIV.

03. COARSE AGGREGATES - CAN/CSA AL3. I - M - 3/4" d MAX, WASHED NATURAL STONE, FREE OF ORGANIC MATTER.

04. TRANSFER PORTS - 8"X6" OPENINGS IN WALLS TO CONDUCT DRAINAGE PIPE FROM INSIDE OF FOUNDATION WALLS TO OUTSIDE OF RETAINING WALLS

05. ENSURE DRAIN IS COVERED WITH FILTER FABRIC. PROVIDE VERTICAL DRAIN AT 10'-0" O.C. UNLESS OTHERWISE SHOWN.

02900 - PLANTING

00. ALL PLANTING TO BE PROVIDED BY OWNER UNLESS OTHERWISE SPECIFIED.

DIVISION 03 : CONCRETE

03200 - CONCRETE REINFORCEMENT

03050 - BASIC CONCRETE MATERIALS AND METHODS

00. CONCRETE SHALL CONFORM IN ALL RESPECTS TO CSA STANDARDS CAN/CSA-A23.1-04 AS REVISED.

01. FOR CONCRETE STRENGTH REFER TO CONSTRUCTION DRAWINGS. USE CONCRETE WITH ULTIMATE STRENGTH OF 25 MPa AT 28 DAYS WHERE NOT INDICATED.

02. PLACING SEQUENCE CONSTRUCTION JOINTS SHALL BE COORDINATED WITH THE ENGINEER.

03. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO THE CURRENT EDITION OF CSA STANDARD G30 SERIES WITH A MINIMUM YIELD STRESS OF 400 MPA.

04. PROVIDE ADEQUATE AMOUNT OF CHAIRS, ADDITIONAL BARS, TIES AND STIRRUPS TO SECURELY HOLD IN REINFORCEMENT IN POSITION AT ALL TIMES. PROVIDE CONTINUOUS CHAIRS FOR SUPPORT OF ALL TOP REINFORCEMENT.

05. UNLESS OTHERWISE NOTED, MAINTAIN, BUT DO NOT EXCEED CLEAR CONCRETE COVER TO REINFORCEMENT AS FOLLOWS: A. CONCRETE PLACED IN FORMS, NOT EXPOSED TO WEATHER OR EARTH:

IN SLABS -----IN BEAMS & COLUMNS ------ | |/2"

(TO STIRRUPS OR TIES)

B. CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH:---2" C. CONCRETE PLACED AGAINST EARTH : ------3"

OG. PROVIDE DOWELS FROM FOOTINGS AND/OR CAPS TO WALLS, PIERS AND COLUMNS AS SHOWN ON DRAWINGS AND TYPICAL DETAILS.

07. LAP LENGTHS FOR REINFORCING BARS

A. TENSILE SPLICE AND CORNERS:------36 x BAR DIA. B. ALL OVER:-----24 x BAR DIA.

08. VERIFY LOCATIONS, DIMENSIONS AND DETAILS OF ALL SLOT OPENINGS, ANCHOR BOLTS AND HARDWARE TO BE EMBEDDED IN CONCRETE BEFORE PROCEEDING WITH THE CASTING.

09. CLARIFY WITH THE ENGINEER ANY QUERIES REGARDING INTERPRETATION OF THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.

I O. REINFORCING STEEL MUST BE SO DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO THE LATEST ACI DETAILING MANUAL - AND REINFORCING STEEL MANUAL OF STANDARD PRACTICE.

03300 - CAST-IN-PLACE CONCRETE

00. PRIOR TO CONSTRUCTION OF SLABS-ON-GRADE, ALL TOPSOIL, SOFT OR OTHERWISE COMPRESSIBLE MATERIAL MUST BE REMOVED FROM THE GROUND SURFACE AND THE CRUSHED STONE FILL (3/4" MAX). THE GRANULAR BASESS OF 6" OF GRANULAR 'A' OR MUST BE COMPACTED TO AT

LEAST 98% OF ITS MAXIMUM STANDARD PROCTOR DRY DENSITY TO PROVIDE A UNIFORM SUPPORT FOR THE SLAB.

03300- CONCRETE FINISHES

00. LIGHT STEEL TROWEL SURFACES TO RECEIVE THINNEST CERAMIC TILE.

OI. STEEL TROWEL SURFACES TO RECEIVE RESILIENT FLOORING AND CARPETING.

02. STEEL TROWEL (BRUSH FINISH) ALL SURFACES EXPOSED TO VIEW.

03. APPLY SEALER ON FLOORS TO RECEIVE CARPET OR NO FINISH.

03400 - PRE CAST CONCRETE

00. PRE CAST SLABS SHALL BE PRE STRESSED HOLLOW CONCRETE SLABS MANUFACTURED BY SUPPLIER.

01. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI (28 MPA) TRANSFER, AND 6000 PSI (41 MPA) AT 28 DAYS.

02. SUBMIT SHOP DRAWINGS ENGINEERED BY PROFESSIONAL ENGINEER.

DIVISION 04 : MASONRY

04050 - BASIC MASONRY MATERIALS AND METHODS

00. ALL HOLLOW AND SOLID MASONRY IN WALLS, PARTITIONS AND FOUNDATION WALLS SHALL CONFORM TO THE ONTARIO BUILDING CODE, 2007 EDITION.

OI. BEAMS BEARING ON MASONRY WALLS SHALL HAVE A MINIMUM BEARING OF 8 INCHES UNLESS NOTED OTHERWISE. BEARING SHALL BE ON BRICKS OR SOLID BLOCKS LAID IN CEMENT MORTAR. THIS ARRANGEMENT SHALL BE DONE FOR A DEPTH EQUAL TO THE LENGTH OF THE BEARING AND FOR A LENGTH EQUAL TO TWICE THE LENGTH OF THE BEARING.

02. FOR COMPOSITION, THICKNESS, LOCATION AND BONDING ARRANGEMENTS OF MASONRY WALLS, REFER TO DRAWINGS.

- 03. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE LINTELS OVER OPENINGS AS FOLLOWS FOR CLEAR SPANS FROM 4'-0", USE I-L3 I/2" x 3 I/2" x 1/4" FOR EACH 4" OF WALL THICKNESS FOR CLEAR SPANS FROM 4'-0" TO 6'-0" INCLUSIVE, USE 1-L5 x 3 1/2" x 1/4" (LLV) FOR EACH 4" OF WALL THICKNESS. PAIRS OF LINTEL ANGLES ARE TO HAVE A MINIMUM OF 6" BEARING ON SOLID MASONRY UNLESS NOTED OTHERWISE.
- 04. UNLESS OTHERWISE SPECIFIES ON THE DRAWINGS, FOR MASONRY VENEER CONSTRUCTION, MASONRY WALLS EVERY OTHER WYTHE SHALL BE REINFORCED WITH CONTINUOUS TRUSS TYPE REINFORCEMENT ADJUSTABLE MASONRY ANCHORS AT 24" O.C.

05. MORTAR: TYPE S CONFORMING TO CSA A I 79-LATEST EDITION.

- OG. DO NOT LAY MORTAR IN FREEZING WEATHER.
- 07. LAY VERTICAL JOINTS IN ALTERNATIVE COURSES, PLUMB THROUGHOUT THE ENTIRE HFIGHT
- 08. IN CAVITY WALLS INSTALL CAVITY VENTS AND WEEP HOLES AT MAXIMUM 24" O.C. FOR BRICK AND 32" O.C. FOR CONCRETE BLOCK.
- 09. INSTALL TRUSS-TYPE HORIZONTAL JOINT REINFORCING AT EVERY SECOND COURSE.
- I O. INSTALL RESILIENT CONTROL JOINTS TO CONSULTANTS SITE INSTRUCTIONS (MAXIMUM 20'-0" O.C.)
- II. MASONRY: MIN. COMPRESSIVE STRENGTH AT 28 DAYS ON GROSS/NET AREA. HOLLOW CONCRETE BLOCKS:-------20.0 MPa SOLID CONCRETE BLOCKS:-------12.5 MPa
- BRICKS (CLAY) :-----17.0 MPa MORTAR TYPE 'S' AT 28 DAYS:--------10.0 MPa

04200 - MASONRY UNITS

DIVISION 05 : METALS

05000 - BASIC METAL MATERIALS AN

05100 - STRUCTURAL METAL FRAMIN

00. UNLESS OTHERWISE SPECIFIED C SHALL APPLY:

DIVISION 05 : METALS	
05000 - BASIC METAL MATERIALS AND METHODS	
00. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS PRIOR TO THE START OF FABRICATION.	
01. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING	
STRUCTURE AND REPORT AN DISCREPANCIES TO THE ENGINEER. 02. THE CONTRACTOR SHALL SUBMIT FOR REVIEW, SHOP DRAWINGS OF HIS WORK.	
SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE ACCURACY OF HIS WORK.	DRAWINGS, DETAILS AND SPECIFICATIONS, AND REPORT ANY DISCREPANCIES TO ENGINEER BEFORE PROCEEDING WITH THE WORK.
05 I 00 - STRUCTURAL METAL FRAMING	□ ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF
00. UNLESS OTHERWISE SPECIFIED OR SHOWN, THE FOLLOWING CODES AND STANDARDS	SERVICE AND THE PROPERTY OF M C ENGINEERING OR CONSULTANTS WHICH MUST BE RETURNED AT THE COMPLETION OF THE WORK.
SHALL APPLY: OBC ONTARIO BUILDING CODE	THE DRAWINGS AND SPECIFICATIONS ARE TO BE USED ONLY
CAN/CSA-G40.20/G40.2 I -92 STRUCTURAL QUALITY STEELS	FOR THE PROJECT SO NOTED. REPRODUCTION OF THE DOCUMENTS IN PART OR IN WHOLE
CISC CANADIAN INSTITUTE OF STEEL CONSTRUCTION HANDBOOK OF STEEL CONSTRUCTION, 1997 CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL	FOR ANY OTHER PURPOSE OR FOR ANY OTHER THAN THIS PROJECT WITHOUT THE WRITTEN CONSENT OF M C ENGINEERING IS PROHIBITED, DRAWINGS ISSUED FOR
CSA-SIG. I-94 DESIGN OF STEEL STRUCTURES FOR BUILDINGS	GENERAL PURPOSE, NEGOTIATION, LEASE ETC. CARRY ALL THE ABOVE COPYRIGHT PROTECTION.
CSA W47.1-1992 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES	
CSA Q48.1-M1991 CARBON STEEL COVERED ELECTRODES FOR SHIELDED METAL ARC WELDING.	THE FOLLOWING DRAWINGS AND NOTES TO BE
CSA W59-M I 989 WELDED STEEL CONSTRUCTION (METAL ARC WELDING)	CONSIDERED AS PART OF THE CONSTRUCTION DRAWINGS:
CAN/CSA 086.1-94 WOOD DESIGN (LSD)	
01. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE IN ACCORDANCE WITH CSA G40.M81 (LATEST EDITION). ALL ROLLED STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO	
ALL ROLLED STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO CSA G40.21-92, GRADE 350W.	
02. ASTM A325. LATEST REVISION. (FRICTION TYPE CONNECTION) 3/4" DIAMETER IN I 3/I G" DIAMETER HOLES UNLESS NOTED.	
03. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF CSA W59-M1989 ELECTRODES AND SHALL BE TYPE E70XX (E480XX) CONFORMING TO CSA W48.1-M1991.	
05 I OO - METAL FRAMING SYSTEMS	
OO. DRAWINGS: THE BUILDING MANUFACTURER SHALL PROVIDE COMPLETE ERECTION DRAWINGS. THESE DRAWINGS SHALL SHOW ANCHOR BOLT SETTINGS.	
ERECTION DRAWINGS. THESE DRAWINGS SHALL SHOW ANCHOR BOLT SETTINGS, TRANSVERSE CROSS SECTIONS, SIDEWALL, ENDWALL AND ROOF FRAMING, SHEETING AND FLASHING DETAILS AND ACCESSORY INSTALLATION DETAILS.	
O I . CERTIFICATION: STANDARD DRAWINGS AND DESIGN ANALYSIS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER. THE CSSBI "CERTIFICATE OF DESIGN" SHALL BE FURNISHED.	
02. ALL STRUCTURAL MILL SECTIONS OR WELDED PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH CSA S I 36 LATEST "SPECIFICATION FOR DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"	
03. ALL COLD FORMED STEEL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH CSA S I 3G LATEST "SPECIFICATION FOR DESIGN FOR COLD FORMED STEEL STRUCTURAL MEMBERS".	
04. DESIGN LOADS SHALL BE APPLIED IN ACCORDANCE WITH O.B.C. OF CANADA, LATEST ISSUE.	
05. BUILDING COMPONENTS SHALL BE DESIGNATED TO MEET THE MOST SEVERE CONDITIONS PRODUCED BY LOAD COMBINATIONS AS PER O.B.C. OF CANADA, PART 4. DESIGN.	
OG. PRIMARY FRAMING STEEL: STEEL FOR HOT ROLLED STRUCTURAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-36, OR CSA G40.21 GRADE 350W.	0ISSUED FOR PERMIT ONLYAPR. 13, 2011EISSUED FOR FINAL REVIEWAPR. 11, 2011DISSUED FOR REVIEWMAR. 25, 2011
07. SECONDARY FRAMING STEEL: STEEL USED TO FORM PURLINS, GIRTS, EAVE STRUTS AND CROSS SECTIONS SHALL BE FLAT STOCK AND HAVE A MINIMUM YIELD POINT OF 50,000 PSI.	CISSUED FOR REVIEWMAR. 10, 2011BISSUED FOR REVIEWMAR. 3, 2011AISSUED FOR REVIEWMAR. 2, 2011BISSUED FOR REVIEWMAR. 2, 2011
08. ALL FRAMING MEMBERS SHALL BE SHOP FABRICATED FOR BOLTED FIELD ASSEMBLY. THE SURFACES OF THE BOLTED CONNECTIONS SHALL BE SMOOTH AND FREE FROM BURRS OR DISTORTION.	REV. NO DESCRIPTION DATE BY DO NOT SCALE DRAWINGS; THESE DRAWINGS SHOW INTENT OF THE DESIGN ONLY OR EXISTING CONDITIONS AND MAY NOT
09. ALL BOLTED CONNECTIONS IN PRIMARY STRUCTURAL FRAMING SHALL BE MADE USING STRUCTURAL QUALITY A325 OR A490 BOLTS, COMPLETE WITH HARDENED WASHERS, AS DETERMINED BY THE DESIGN.	REFLECT EXACT LOCATIONS.
05500 - METAL FABRICATIONS	
05500 - METAL FABRICATIONS 00. STRUCTURAL STUD SECTIONS TO BE IN ACCORDANCE WITH CSA S I 36- I 994 COLD FORMED STEEL STRUCTURAL MEMBERS.	PROJECT
00. STRUCTURAL STUD SECTIONS TO BE IN ACCORDANCE WITH CSA S I 36- I 994 COLD	PROJECT
 OO. STRUCTURAL STUD SECTIONS TO BE IN ACCORDANCE WITH CSA S I 36- I 994 COLD FORMED STEEL STRUCTURAL MEMBERS. OI. CONFORM TO ASTM A307-94. O2. STEEL STUDS TO BE "C" SECTION HOT-DIPPED GALVANIZED AS MANUFACTURED 	PROJECT
 OO. STRUCTURAL STUD SECTIONS TO BE IN ACCORDANCE WITH CSA S 36- 994 COLD FORMED STEEL STRUCTURAL MEMBERS. OI. CONFORM TO ASTM A307-94. 	PROJECT
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DIVISION OG : WOOD AND PLASTICS

06000 - WOOD MATERIALS

- 00. ALL WOOD MATERIALS, FABRICATION AND ERECTING TO BE IN ACCORDANCE WITH CSA 086. I -94 ALL TIMBER GRADING TO BE IN ACCORDANCE WITH NLGA (LATEST EDITION).
- OI. ALL TIMBER FOR RAFTERS, LINTELS, BEAMS TO BE SPF #2 UNLESS NOTED ON PLAN.
- 02. ALL TIMBER SHALL CONFORM TO RECOGNIZED NOMINAL SIZES SHOWN ON PLAN AND STRESS RATINGS FOR APPROPRIATE SPECIES. NO TIMBER SHALL BE USED THAT DOES NOT CONFORM TO DIMENSIONS AND SPECIES
- 03. ALL TRUSSES MUST BE FABRICATED IN ACCORDANCE WITH O.B.C./N.B.C. PART 4 AND TRUSS PLATE INSTITUTE REQUIREMENTS.
- 04. TRUSS FABRICATOR SHALL SUPPLY ALL NECESSARY PLANS INCLUDING PLACING DRAWING SHOWING LOCATION, LOADINGS, ALLOWABLE STRESSES, TEMPORARY AND PERMANENT BRACING AND SHALL BEAR A SEAL OF A PROFESSIONAL ENGINEER.
- 05. ALL HANDLING AND ERECTION OF TRUSSES TO BE IN ACCORDANCE WITH TRUSS SUPPLIER'S REQUIREMENTS. 06. ALL TRUSSES MUST BE ANCHORED TO SUPPORTS WITH TIE DOWN METAL

06100 - ROUGH CARPENTRY

FRAMES.

- OO. ALL WOOD DESIGN AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE CSA STANDARD CAN/CSA-086. I -94 OR THE LATEST EDITION.
- OI. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL WOOD SHALL BE OF SPECIES S-P-F WITH WOOD QUALITY OF NO.2 OR BETTER.
- 02. PROVIDE A MINIMUM OF 6" BEARING FOR ALL WOOD BEAMS AND LINTELS.
- 03. SHEATHING EXTERIOR WALLS : FIR PLYWOOD ROOF : SHEATHING GRADE FIR PLYWOOD
- 04. CUT FRAMING MEMBERS ACCURATELY TO SIZE, FIT CLOSE AND TIGHT, SECURELY ANCHOR BY NAILING OR SPIKING AND LEAVE PLUMB AND LEVEL.
- 05. PRESSURE TREATED WOOD IN CONTACT WITH CONCRETE OR MASONRY, IN ACCORDANCE WITH CAN/CSA-080 SERIES-M89.
- 06. INSTALL PLYWOOD SHEATHING WITH SURFACE GRAIN AT RIGHT ANGLES TO ROOF FRAMING AND WITH JOINTS LIGHTLY BUTTED, USING H-CLIPS.
- 07. ALL JOINTS SHALL HAVE BRIDGING OVER INTERIOR BEARING WALLS AND BEAMS.
- 08. ROOF TRUSSES SHALL BE DESIGNED BY A P.ENG.
- 09. SUBMIT SHOP DRAWINGS.
- 10. INSTALLATION OF THE ROOF TRUSSES SHALL BE REVIEWED AT THE SITE AND AFTER. COMPLETION SHALL BE CERTIFIED BY THE ENGINEER WHO DESIGNED THE TRUSSES.

06200 - FINISH CARPENTRY

- 00. MILLWORK SHALL BE ACCURATELY MILLED TO DETAIL, PROFILES AND LINES. SCRAPE, SAND SMOOTH, MORTISE, TENION, SPLICE, HOUSE, JOINT, BLOCK, SCREW AND GLUE PIECES TOGETHER AS APPROVED IN MANNER TO AVOID SWELLING AND SHRINKAGE. ENSURE WORK IN PLACE WITHOUT WARPING, SPLITTING OR OPENING OF JOINTS.
- 01. SUBMIT SHOP DRAWINGS.
- 02. FABRICATE LIGHT VALANCES AND VANITY KICK PANELS OF PARTICLE BOARD.
- 03. JOINTS WILL BE PERMITTED ONLY WHERE LENGTH EXCEEDS 8'-0".
- 04. SET AND SECURE MATERIALS AND COMPONENTS IN PLACE, RIGID, PLUMB, SQUARE, AND LEVEL.
- 05. CUT COUNTERTOPS FOR SINKS AND PROVIDE BEARERS.

DIVISION 07 : THERMAL AND MOISTURE PROTECTION

07200 - THERMAL INSULATION

- 00. INSULATION FOR PERIMETER WALLS TO BE FIBREGLASS BATT INSULATION.
- OI. INSULATION SHALL BE WEATHERPROOFED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 02. BATT INSULATION FOR ROOF TO BE FIBREGLASS, CONFORMING TO CSA-AIOI LATEST EDITION, FRICTION FIT BATTS BY FIBREGLASS CANADA LTD. THICKNESS AS SHOWN ON DRAWINGS, PLACED BETWEEN FRAMING MEMBERS TO COMPLETELY FILL ALL SPACES AND VOIDS.
- 03. PERIMETER FOUNDATION WALL INSULATION TO BE STYROFOAM SM BY DOW CHEMICAL CANADA INC.
- 04. BATT INSULATION SHALL BE "CERTIFIED R METAL BUILDING INSULATION."

07200 - VAPOUR RETARDERS/AIR BARRIERS

00. VAPOUR BARRIER : APPLY 6 MIL POLYETHYLENE VAPOUR BARRIER, LOCATED ON THE WARM SIDE OF THE INSULATION. DO NOT CUT FOR ELECTRICAL OR MECHANICAL ITEMS. INSULATION SHALL BE CONTINUOUS, WITH 2" LAPS MIN SEALED WITH SELF ADHESIVE TAPE. FINAL INSTALLATION SHALL BE FREE OF TEARS, SEAMS OR GAPS ALLOWING MIGRATION OF MOISTURE.

07300 - ROOF TILES, ROOF COVERINGS AND SHINGLES

- 00. STEEL USED TO FORM ROOF AND WALL PANELS SHALL BE COLD ROLLED MINIMUM GRADE "A", AND SHALL HAVE A MINIMUM AZ I 50 GALVALUME COATING.
- 01. ROOF SHALL BE COVERED WITH STORM LOC 24 STANDING SEAM ROOF PANEL WALLS SHALL BE COVERED WITH STEELWAY TECLOC I G WALL PANELS MINIMUM PANEL THICKNESS SHALL BE 24 GAUGE.
- 02. STEELWAY STORM LOC 24 STANDING SEAM ROOF SHALL CONSIST OF 24" WIDE PANELS WITH 3: DEEP ROLL FORMED SIDE RIBS. PANEL SHALL BE MINIMUM 24 GAUGE AND NO FASTENERS SHALL PENETRATE ROOF PANEL OVER INTERIOR SPACE EXCEPT AT SPLICE.
- 03. SIDE LAPS SHALL CONTAIN A FOAMED IN PLACE GASKET MANUFACTURED FROM
- A BUTYL-EPDM BLEND AND APPLIED IN LINE USING HEAT AND PRESSURE. 04. END SPLICE SHALL CONSIST OF AN ALUMINUM CINCH STRAP SCREWED TO A STEEL BACK UP PLATE.
- 05. WALL PANELS SHALL BE STEELWAY TECHLOC IG PANEL WITH HIDDEN FASTENER PANEL AND NO FASTENER VISIBLE THROUGH THE PANEL FACE.
- OG. PANELS SHALL BE 16" WIDE, 3" DEEP AT SIDES AND HAVE A 1 1/2" DEEP CENTRE RIB.
- 07. PANELS SHALL HAVE TWO MINOR RIBS IN PANEL FACE.
- 08. TECHLOC PANELS SHALL BE A MIN. OF 24 GAUGE.

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- 09. FASTENERS FOR PANELS : ALL PANELS SHALL BE ATTACHED TO SECONDARY FRAMING MEMBERS BY MEANS OF (A)WALL PANELS, NYLON HEAD SELF DRILLING #14 x 1 1/4". (B)ROOF PANELS TO STRUCTURAL, NYLON HEAD SELF DRILLING #14 x 1 1/4" WITH BONDED WASHER. (C)ROOF PANEL TO ROOF PANEL, NYLON HEAD SELF DRILLING #14 x 7/8" WITH BONDED WASHERS.
- I O. CLOSURE STRIPS: THE CORRUGATIONS OF THE ROOF AND WALL PANELS SHALL BE FILLED WITH SOLID OR CLOSED CELL, PERFORMED CLOSURES ALONG THE EAVE, RIDGE AND GABLE.
- I. SEALANT FOR ROOF SIDELAPS, ENDLAPS AND FLASHING SHALL BE A NOMINAL 1/2" WIDE BY 1/8" THICK, BUTYL PRESSURE SENSITIVE TAPE. THE MATERIAL SHALL BE NON -ASPHALTIC, NON-SHRINKING, NON-DRYING, AND NON-TOXIC, AND SHALL HAVE SUPERIOR ADHESION TO METALS. PLASTICS AND PAINTED SURFACES AT TEMPERATURES FROM 10 DEGREES TO + 140 DEGREES.
- I 2. ALL EXTERIOR GUTTERS AND RAKE FLASHINGS SHALL BE 26 GAUGE GALVALUME STEEL, PREFINISHED COLOR TO OWNER'S REQUIREMENTS

- 13. ALL DOWNSPOUTS SHALL BE 26 GAUGE GALVANIZED STEEL, RECTANGULAR IN SHAPE AND CRIMPED IN DESIGN. THE CROSS SECTION SHALL NOT BE LESS THAN 4" x 3" PREFINISHED COLOR TO OWNER'S REQUIREMENTS.
- 14. THE EXPOSED SURFACE OF GALVALUME STEEL, ROOF AND WALL CLADDING SHALL BE COATED WITH SERIES 5000 PAINT, APPLIED PRIOR TO ROLL FORMING. COLOR TO BE SELECTED BY OWNER FROM STANDARD SERIES 5000 SELECTION CHART.
- 15. ASPHALT SHINGLES IKO CAMBRIDGE 25 YEAR WARRANTY OR APPROVED EQUIV. A. SNOW-MELT BARRIER AT EAVE - 3'-O" MODIFIED BITUMEN SHEET. (IKO ARMOURGAURD) B. ASPHALT SHINGLE - 14"X40" (249 LB/SQFT)
- C. METAL DRIP EDGE - 20 GA GALV. STEEL D. VALLEY GUTTER - 20 GA GALV. STEEL

07400 - METAL ROOF AND WALL PANELS

SUBMIT SAMPLE FOR APPROVAL.

- 00. PREFINISHED STEEL 24 GAUGE HOT DIPPED GALVANIZED STEEL ASTM A446-85 GRADE CG - 90 COATING ASTM 525-86.
- OI. FINISH SHALL BE KYNAR 500 FLUOROCARBON COATING APPLIED WITH A TOP SIDE FILM OF 0.70 TO 0.90 MIL OVER 0.25 TO 0.31 MIL PRIME COAT TO PROVIDE TOTAL DRY THICKNESS OF 0.95 TO 1.25 MIL.
- 02. COLOR SHALL BE SELECTED BY OWNER.
- 03. UNLESS OTHERWISE SPECIFIED ALL EXPOSED ADJACENT FLASHING SHALL BE OF THE SAME MATERIAL AND FINISH AS PANEL SYSTEM.
- 04. FURNISH AND INSTALL BERRIDGE COLONIAL SIDING AS MANUFACTURED BY BERRIDGE MANUFACTURING COMPANY.
- 05. PANELS SHALL BE ROLL-FORMED IN CONTINUOUS (MAXIMUM 40'-0") LENGTHS

07500 - BUILT-UP BITUMINOUS ROOFING

00. MATERIALS:

FELT:	CSA A I 23-3 LATEST EDITION - ASPHALT SATURATED, PERFORATED NO. 15
BASE SHEET:	CSA 123.3. LATEST EDITION. ASPHALT COATED BASE SHEET NO. 14
BITUMINOUS:	CSA 123.4 LATEST EDITION. ASPHALT
FLASHING :	COMPATIBLE WITH FLEXIBLE FLASHING
FLEXIBLE FLASHING:	FR40 REINFORCED FLASHING BY LEXSUCO LTD OR EQUIVALENT
SHEATHING:	CAN/CSA A8227-LATEST EDITION 5/8" THICK FIRE RESISTANT
	TYPE 'X' CORE.
CANT STRIP:	ASPHALT IMPREGNATED FIBRE BOARD
INSULATION:	POLYSTYRENE EXTRUDED, EXPANDED POLYSTYRENE (ROOFMATE)
	SHIP-LAP JOINTS.

02. INSTALLATION:

VERIFY ELEVATION OF ROOF DRAIN.
DO NOT LAY ROOFING UNTIL ANY UNEVENNESS IN THE DECK HAS BEEN CORRECTED
APPLY FELTS SMOOTH FREE FROM AIR POCKETS, WRINKLES OR TEARS.
LAP END JOINTS AT LEASE 6" AND AVOID COINCIDING WITH UNDERLAYING JOINTS.
SUPPLY AND INSTALL BUILT-UP FLASHING AND SLEEVES AROUND MECHANICAL
OPENINGS, DUCTS, HATCHES, PIPES AND OTHER PROJECTIONS THROUGH ROOFS.

ROOFING GRAVEL: RIVER WASHED, ROUNDED 6-I GMM, UNIFORMLY GRADED

03. WARRANTY SUBMIT A 5 YEAR WARRANTY FOR PROTECTED MEMBRANE AND MEMBRANE FLASHING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP INCLUDING BUT NOT LIMITED TO WIND UPLIFT AND WATERTIGHTNESS.

07600 - FLASHING AND SHEET METAL

- 00. INSTALL COPINGS, CURB COVERING, STARTER STRIPS PIPE FLASHING COLLARS, AND FLASHINGS TO DETAILS SHOWN ON DRAWINGS.
- 01. PROFILE SHEET CONFIRMING TO CAN3-5136 LATEST EDITION STRUCTURAL QUALITY GALV. STEEL WITH ZINC COATING OF Z275 GALV. 03. APPLY WALLBOARD IN ACCORDANCE WITH CSA A82.31 LATEST EDITION AND CGC DRYWALL CONSTRUCTION HANDBOOK. TAPE JOINTS AND FINISH ACCORDING TO WITH ZINC COATING OF Z275 GALV.
- 02. CAULK WHERE REQUIRED TO FORM WEATHER TIGHT SEAL BETWEEN FLASHING AND ADJOINING SURFACES.
- 03. CAULKING COMPOUND SEE 07900.

ADJOINING SURFACES.

07700 - ROOF SPECIALTIES AND ACCESSORIES

00. ROOF DRAINS BY ZURN OR APPROVED EQUIV. MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND DOME

07800 - FIRE AND SMOKE PROTECTION - (SEE M/E DRAWINGS)

07900 - JOINT SEALERS

- 00. SEALANTS AND CAULKING TO BE ONE-PART ACRYLIC TERPOLYMER, CONFORMING TO CGSB 19-GP-5M, BY TREMCO OR APPROVED EQUAL AND PRIMER TO SUIT.
- 01. INSTALL JOINT BACKING MATERIAL IN MAXIMUM LENGTHS WITH MINIMUM NUMBER OF JOINTS OR SPLICES.
- 02. FINISH SURFACES OF CAULKING SMOOTH, FULL BEAD, FREE FROM RIDGES, WRINKLES, SAGS, AIR POCKETS AND EMBEDDED OBJECTS.
- 03. PROVIDE CAULKING AT ALL LOCATIONS SHOWN ON DRAWINGS AND WHERE REQUIRED TO ACHIEVE A COMPLETELY WATERTIGHT AND WEATHERTIGHT JUNCTION.

DIVISION 08 : DOORS AND WINDOWS

8100 - METAL DOORS AND FRAMES

00. DOORS SHALL BE STANDARD HOLLOW METAL DOORS AND FRAMES.

OI. FINISH HARDWARE AS SPECIFIED ON DRAWINGS.

02. OBTAIN NECESSARY TEMPLATES FOR DRILLING, TAPPING AND OTHER PREPARATION WORK NECESSARY TO ACCOMMODATE HARDWARE.

03. INSTALL HARDWARE, SECURITY SET AND ADJUST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR SMOOTH, TROUBLE FREE OPERATION.

04. HANG DOORS ON 1 1/2" PER BUTTS, UNLESS OTHERWISE NOTED, TO CLOSE FULLY IN ALL CASES.

05. DOORS TO BE 20 GA SHEET FACES AT INTERIOR LOCATIONS, 18GA (POLY "S") @ EXTERIOR LOCATIONS. FRAMES AND SCREENS TO BE IGGA.

OG. SUBMIT SHOP DRAWINGS.

8100 - ALUMINUM DOORS AND FRAMES

OO. GLASS IN ENTRANCE DOORS AND VESTIBULE TO BE CLEAR TEMPERED.

01. EXTERIOR EXPOSED ALUMINUM SURFACES, ENTRANCE DOORS AND FRAMING, AND INTERIOR EXPOSED SURFACES TO BE ANODIZED, COLOR AS SELECTED BY OWNER.

02. GLAZED ALUMINUM ENTRANCES BY KAWNEER, COMMERCIAL ALUMINUM OR ROBERTSON SENTINEL OR EQUIV.

03. SUBMIT SHOP DRAWINGS.

- 8200 WOOD AND PLASTIC DOORS
- 00. DOORS TO BE SOLID CORE WOOD.
- OI. FACING QUALITY: AWMAC PREMIUM GRADE.
- 02. FACE PANEL: G.C. TO CONFIRM.
- 8300 OVERHEAD DOORS

02. SUBMIT SHOP DRAWINGS.

OO. PANELS: FLUSH INSULATED PANELS, 1 3/4" thick

01. STANDARD LIFT TRACK AND HARDWARE.

03. FINISHES TO BE PREFINISHED, COLOR TO OWNER'S SELECTION.

8400 - ENTRANCES AND STOREFRONTS - AS PER KAWNEER OR EQUIV

8500 - ALUMINUM WINDOWS

00. GLAZED ALUMINUM WINDOWS BY KAWNEER, COMMERCIAL ALUMINUM OR ROBERTSON SENTINEL OR EQUIV

08600 - SKYLIGHTS

08700 - HARDWARE - MEDIUM GRADE COMMERICAL

OO. REFER TO DRAWINGS FOR HARDWARE SCHEDULE

DI.HINGES	INTERIOR - BB 279
EXTERIOR - BB1191-NRP WHERE	REQUIRED
LOCKSETS/LATCHSETS	SARGENT 7 LINE, LL LEVER, 626 FINISH
DEADLOCKS	480 LINE, 626 FINISH
KEYING	SARGENT GMK
SURFACE/FLUSH BOLTS	STANDARD METAL, 626 FINISH
EXIT DEVICES	SARGENT 80 SERIES, 26D
CLOSER	35 I SERIES, FINISH EN, POSITIVE STOP ARM WHERE
FLOOR OR WALL STOP SPECIFIED	
FLATWEAR	STANDARD METAL, STAINLESS FINISH (SIZE TO SUIT)
WALL/FLOOR STOPS	STANDARD METAL, 626 FINISH
THRESHOLD	CT 95, AL
WEATHERSTRIPPING	W-13, AL
DOOR SWEEP	W-135, AL
SIGNAGE	FROST-TEXT & SYMBOL -
CODES-MALE 962,	FEMALE 963, BOTH 965

02. MAIN ENTRANCE DOORS TO BE EQUIPPED WITH A POWER DOOR OPERATOR IN CONFORMANCE WITH O.B.C. 3.7.3.3.(5).

03. SUBMIT SHOP DRAWINGS.

8800 - GLAZING

00. TO MATCH EXISTING.

OI. DOUBLE GLAZED SEALED UNITS A. 6 MM - GREY ANNEATED EXTERIOR.

B. 6 MM - CLEAR ANNEATED INTERIOR

08900 - GLAZED CURTAIN WALL - AS PER AERLOC INDUSTRIES LTD. OR EQUIV.

DIVISION 09 : FINISHES

09100 - METAL SUPPORT ASSEMBLES

09200 - PLASTER AND GYPSUM BOARD

00. GYPROC WALLBOARD - 1/2" THICK, IN 4'-0" WIDE SHEETS OF MAXIMUM PRACTICAL LENGTHS TO MINIMIZE END JOINTS.

01. CORNER BEADS - 25 GAUGE GALVANIZED SHEET STEEL BEADS WITH 1 1/2" PERFORATED FLANGES.

02. DRYWALL CASING BEADS OF SUITABLE DEPTH.

- MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 04. WHERE EDGES OF WALLBOARD ARE EXPOSED OR ABUT OTHER MATERIALS. INSTALL CASING BEADS FITTED OVER THE EDGE OF WALLBOARD AND SCREWED THROUGH WALLBOARD INTO FRAMING.
- 05. REFER TO DRAWINGS FOR SPECIFIC REQUIREMENTS OF RATED GYPSUM BOARD AND EXTERIOR GRADE
- 06. EXTERIOR GYPSUM BOARD: CONFORM TO CSA A-82-27 LATEST EDITION/C36. CANADIAN GYPSUM CO. OR EQUIV. CEILING - SHEFTROCK - 1/2" PLAIN FOIL BACK SHEATHING - GYPLAP - 1/2" REGULAR OR 5/8" FIRECODE.

09300 - CERAMIC TILE & QUARRY TILE - N/A

00. NON-VITREOUS GLAZED TILE; MAPLE LEAF, DISTRIBUTED BY OLYMPIA FLOOR AND WALL TILE COMPANY. (OR EQUIV.) 4 1/2" X 4 1/2" WITH BULLNOSE AT EXPOSED EDGES. SAMPLES TO BE SUBMITTED.

01. QUARRY TILE: CAN/CGSB-75.1M. TYPE 4, CLASS MR2; TO LATER SELECTION. UNGLAZED VITREOUS QUARRY TILE, 6" X 6". AS SELECTED BY OWNER. SAMPLE TO BE SUBMITTED.

02. CERAMIC TILE: CONFORM TO CGSB-75.1-M.

FLOOR TILE AND BASE - WASHROOMS: 2"X2" UNGLAZED MOSAICS, ABRASIVE SURFACE, C/W COVE BASE AND TRIMS. KEYSTONES BY DALTILE OR WINBURN BY OLYMPIA, (OR EQUIV.)

WALL TILE - WASHROOMS, BATHROOMS AND SHOWERS: 4 1/2" X 4 1/2" GLAZED. VITRIFIED C/W NECESSARY TRIMS, SEMI-GLOSS SERIES BY DALTILE OR MAPLE LEAF BY OLYMPIA. (OR EQUIV.)

FLOOR TILE - OTHER AREAS: 12" X 12" TILE, FRENCHQUARTER BY DALTILE OR TECHNOSTONE SERIES BY OLYMPIA. (OR EQUIV.)

- 03. SET OUT TILE WORK IN EACH ROOM SO THAT JOINT PATTERNS ARE CENTRED IN ROOM AND CUT TILES, IF REQUIRED, AT PERIMETER WALLS ARE AT LEAST
- ONE HALF SIZE. 04. FINISHED FLOOR TO BE LEVEL OR STRAIGHT SLOPED TO WITHIN 3MM IN 3M.
- 05. JOINTS IN TILE SHALL BE UNIFORM IN WIDTH, SUBJECT TO NORMAL VARIANCE IN TOLERANCE ALLOWED IN TILE SIZE. JOINTS SHALL BE WATERTIGHT WITHOUT VOIDS, CRACKS, EXCESS MORTAR OR GROUT.
- 06. ALLOW MINIMUM 24 HOURS AFTER SETTING PRIOR TO GROUTING.
- 07. DO NOT PERMIT FOOT TRAFFIC FOR A MINIMUM OF 48 HOURS.

09400 - TERRAZZO

09500 - CEILINGS

- 00. ACOUSTIC PANELS TO BE 24" x 48" x 5/8" THICK, COLOUR WHITE.
- OI. TYPE AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD LINE.
- 02. SUSPENDED GRID: HEAVY DUTY, NON-FIRE RATED, TWO DIRECTIONAL EXPOSED TEE BAR GRID
- 03. GRID FINISH: BAKED SATIN SHEEN WHITE ENAMEL.
- 04. TIE WIRE: 18 GAUGE GALVANIZED SOFT ANNEALED STEEL WIRE.
- 05. TYPE AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD LINE.

09600 - WOOD FLOORING

- 00. FINISHED STRIP FLOORING: MINIMUM 5/16" TONGUE AND GROOVE, KILN DRIED RED OAK OF CLEAR - SELECT - I COMMON GRADE WITH I 3/4"± EXPOSED FACE. PLAINLY GRADE MARK TO HARDWOOD BUREAU OF THE CANADIAN LUMBERMEN'S ASSOCIATION REQUIREMENTS.
- 01. PLYWOOD UNDERLAY: POPULAR PLYWOOD TO CSA 0153-M. 4"-0" x 8'-0" SIZE,
- SQUARE-EDGE AND 1/8" TO 3/8" THICKNESSES AS REQUIRED. 02. CRAFT PAPER: SEPARATOR SHEET AS RECOMMENDED BY FLOORING MANUFACTURER.
- 03. SECURE PLYWOOD UNDERLAY TO SUBFLOOR USING NAILS OR STAPLES AND LEAVING 1/8" GAPS BETWEEN SHEETS AND 1/2" AT WALLS.

04. APPLY 2 COATS HIGH GLOSS SEALER COATS AND I COAT SATIN FINISH IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

09600 - RESILIENT FLOORING

00. VINYL COMPOSITION TILES , 12" x 12" x 1/8" THICK.

- 01. COLOUR AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARDS LINE.
- 02. BASE TO BE RUBBERIZED VINYL, 4" HIGH.
- 03. PROVIDE PLYWOOD UNDERLAY IN AREAS WHERE SUBSTRATE IS UNACCEPTABLE
- 09600 CARPET
- 00. CARPET: LEVEL LOOP YARN, 100% BCF ULTREL 111 NYLON OR ZEFTRON, SOLUTION DYED. GAUGE: 39.4/100MM (1/10) STITCHES: 47.2MM (12 S.P.I.) PILE HEIGHT: 4,5MM (0,177") YARN WEIGHT: 950 G/SM (28 OZ/SQ.YD.)
- PRIMARY BACKING: WOVEN POLYPROPYLENE SECONDARY BACKING: TUF BAC OR ACTION BAC TOTAL WEIGHT: 2119 G/SM (58 OZ/SQ.YD.) FLAME SPREAD, SMOKE DENSITY, FUEL CONTRIBUTION TO MEET REALIREMENTS OF CGSB4-GP-155 AND 4-GP-129. ACCEPTABLE PRODUCTS ARE KRAUS-DOMINATOR, CENTURA-MILLENNIUM, OR VENTURE-CONTRAX. COLOUR TO BE SELECTED BY CONSULTANT.
- 01. EDGE STRIPS: ALUMINUM, VINYL COVERED OF TYPE RECOMMENDED BY CARPET MANUFACTURER AND APPROVED BY CONSULTANT. COLOUR TO MATCH APPROVED SAMPLE.
- 02. ADHESIVE AND PRIMER: AS RECOMMENDED BY CARPET SUPPLIER.
- 03. CONCRETE FLOOR SEALER: TO CGSB-25-GP020M, TYPE I
- 04. SUBFLOOR FILLER: WHITE PREMIX LATEX REQUIRING ONLY WATER TO PRODUCE CEMENTITIOUS PASTE
- 05. UNROLL CARPET, FACE UP. ALLOW APPROXIMATELY 30MM OVERLAP AT EACH END TO ALLOW PROPER FITTING AGAINST WALL AND FOR DOUBLE CUTTING INTO ADJOINING ROLL.
- OG. DOUBLE CUT SEAMS. ENSURE DIRECTION OF PILE OF EACH LENGTH OF CARPET RUNS IN SAME DIRECTION. REVERSING OF PILE OR PIECE NOT PERMITTED.
- 07. FIT CARPET EXACTLY. USE OF CARPET KICKER TO CORRECT DEFECTS IN CUTTING IS NOT PERMITTED.
- 08. CARPET BASE: INSTALL CARPET BASE TO MATCH ADJACENT CARPET FLOORING. BIND EXPOSED CARPET BASE EDGE, ADHERE TO WALL AND NEATLY FIT AGAINST FLOOR CARPET

09700 - INTERIOR LINER SHEETS

- 00. INTERIOR ROOF LINER SHEET SHALL BE VINYL/SCRIM/METALIZED POLYESTER 5503 VRP BY LAMOTITE.
- OI. INTERIOR WALL LINER SHEET SHALL BE L-800 LINER SHEET (PRE-PAINTED FINISH), 20 GA BY VICWEST STEEL.

09800 - ACOUSTICAL TREATMENT

09900 - PAINTS AND COATINGS

00. DO NOT PAINT CIRCUIT BREAKERS, SWITCHES, RECEPTACLES OR SIMILAR

- ELECTRICAL COMPONENTS. OI. COLOUR SCHEDULE WILL BE ISSUED AT A LATER DATE.
- 02. SURFACE REQUIREMENTS : CLEAN, DRY, FREE FROM DUST, DIRT, GREASE, FROST, RUST, LOOSE CRYSTALS OR EXTRANEOUS MATTER, TOOL, MACHINE MARKS OR INSECTS
- 03. SEAL KNOTS, PITCH AND SAPWOOD OF WOOD SURFACES TO BE PAINTED.
- 04. DO NOT APPLY SUCCEEDING COATS UNTIL PRECEDING COAT IS HARD AND DRY
- 05. INTERIOR MASONRY: I COAT BLOCK FILLER,
- I COAT PRIMER SEALER 2 COATS ALKYD ENAMEL INTERIOR PRIMED STEEL: I COAT ZINC CHROMATE PRIMER, 2 COATS ALKYD ENAMEL. I COAT ALKYD PRIMER SEALER. GYPSUM BOARD:
- 2 COATS ALKYD ENAMEL.
- OG. FIRE RESISTANCE PAINT

DIVISION 10 : SPECIALITIES

10100 - SPECIALTIES

- 00. SUBMIT SHOP DRAWINGS.
- OI. INSTALL FIXTURES, ACCESSORIES AND ITEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO LOCATIONS NOTED ON DRAWINGS, AS DIRECTED BY ARCHITECT, AND TO THE REQUIREMENTS OF JURISDICTIONAL AUTHORITIES.
- 02. INSTALL PLUMB AND LEVEL, SECURELY, AND RIGIDLY ANCHORED TO SUBSTRATE.
- 03. REFER TO DRAWINGS FOR SCHEDULE.

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M C ENGINEERING P.O. Box Tel: 519-428-6790 Fax: E-mail: drawing@mceng A DIVISION OF 392583 /	gineering.net
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