# **Ecole Pierre Chaisson Addition**

CIVIL C100 DEMO PLAN C101 NEW EXTENSION PLAN

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.



Suite 201, 85 Fitzroy Street Charlottetown, PEI, Canada, C1A 1R6 Phone (902) 368-2300 www.colesassociates.com

# 140 Deblois Rd, Tignish, PE



## ARCHITECTURAL

A000 COVER PAGE A001 SCHEDULES, NOTES & SPECIFICATIONS A100 MAIN FLOOR PLAN PARTIAL & ELEVATIONS A300 BUILDING SECTIONS A350 WALL SECTIONS & DETAILS

### MECHANICAL

M001 MECHANICAL SPECIFICATION, LEGEND, AND DETAILS M100 NEW WORKS PLANS, CONTROL SCHEMATIC, AND EQUIPMENT SCHEDULES

# ELECTRICAL

& NOTES



Project Title Sheet Title Client Provincial Government of PEIEcole Pierre Chaisson AdditionDepartment of Transportation & InfrastructureDTI Project #175-23045. Cover Page

E001 ELECTRICAL SPECIFICATION, LUMINAIRE SCHEDULE & LEGEND E100 PARTIAL FLOOR PLAN - POWER, COMMUNICATIONS, SYSTEMS, LIGHTING

	No.	Description	Date	Date: 2023-10-19	Revision
2	-	Issued for Tender	2023-10-19	Drn By: AJW	$\wedge$
				Chk By: DD	<u> </u>
				Project Number:	
				231124	
				Drawing Number:	
				1000	
				AUUU	





### <u>LEGEND</u>

	PROPERTY LINE
	PROPERTY SETBACK LINE
	EXISTING EDGE OF ASPHALT
	EXISTING ASPHALT
	EXISTING BUILDING
/////////	NEW BUILDING
	NEW EDGE OF ASPHALT
	NEW ASPHALT
W	EXISTING DOMESTIC WATER LINE
	EXISTING DOMESTIC SANITARY LINE
	EXISTING DOMESTIC STORM WATER LINE
W M	NEW DOMESTIC WATER LINE
	NEW DOMESTIC SANITARY LINE
	NEW DOMESTIC STORM WATER LINE
	DRAINAGE SWALE
	RETAINING WALL
	EXISTING CONCRETE
	EXISTING GRASS

MH EXISTING MANHOLE CB EXISTING CATCH BASIN

EXISTING ELEVATION 15.23

PROPOSED ELEVATION 15.23

EXISTING POWER POLE )UP

 $\otimes$  CS <sup>NEW CURB STOP</sup>

### GENERAL REQUIREMENTS

- ERODIBLE SOIL SHALL NOT REMAIN EXPOSED FOR LONGER THAN ABSOLUTELY NECESSARY.
   WORK WILL BE COMPLETED AS SOON AS POSSIBLE, AND WILL BE SUSPENDED DURING AND IMMEDIATELY AFTER INTENSE RAINSTORMS AND DURING PERIOD OF HIGH RUNOOF.
- 3. WITHIN 48 HRS OF DOING DITCHING WORK, OR AS DIRECTED BY THE ENGINEER, ALL EXPOSED SOILS WILL BE EITHER SEEDED OR RECEIVE STRAW/HAY MULCH APPLICATION.
- DITCHING SHALL NOT BE DONE PRIOR TO MAY 1 OR AFTER SEPTEMBER 30 WITHOUT WRITTEN APPROVAL FROM EMS.
   EFFORTS TO REDUCE THE TURBIDITY OF WATER PUMPED FROM WORK AREAS WILL BE IMPLEMENTED, PRIOR TO FINAL DISCHARGE, THROUGH THE USE OF FILTRATION THROUGH VEGETATION, EROSION CONTROL DEVICES SUCH AS SEDIMENT COLLECTION PONDS, CHECK DAMS OR OTHER DEVICES.

**EROSION & SEDIMENT CONTROL MEASURES** 

- 1. DO NOT REMOVE OR DISTURB ANY VEGETATION BEYOND THE LIMITS OF WORK.
- 2. STABILIZE ACCESS ROADS AS SOON AS POSSIBLE AFTER BEING DISTURBED. EROSION CONTROL MEASURES MUST BE CHECKED AND MAINTAINED ON A REGULAR BASIS (DAILY AND AFTER HEAVY RAINFALL). 4. ALL MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO MINIMIZE THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE.
- 5. ANY MUD OR DEBRIS THAT IS CARRIED OFFSITE AND ONTO THE PUBLIC ROADWAY MUST BE CLEANED OFF AT THE END OF EACH WORKDAY.
- 6. FAILURE TO COMPLY WITH THE EROSION AND SEDIMENTATION CONTROLS MAY RESULT IN A STOP WORK ORDER UNTIL ADEQUATE MEASURES HAVE BEEN CORRECTED.
- 7. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE SITE IS STABLE AND VEGETATION IS ESTABLISHED, UNLESS
- OTHERWISE DIRECTED BY THE ENGINEER. 8. A SPILL CONTAINMENT KIT SHALL BE ONSITE AT ALL TIMES WHILE HEAVY EQUIPMENT IS ONSITE.
- 9. ANY CONCERNS OR EMERGENCIES RELATED TO EROSION AND SEDIMENTATION FROM THE SITE SHALL BE DIRECTED TO THE ENGINEER.

### STRAW BALE CHECK DAMS

1. PROVIDE STRAW BALE CHECK DAMS FOR DITCHES WITH LESS THAN 2% GRADIENTS. 2. AL SILT FENCES AND BARRIERS SHOULD BE INSPECTED FOR BREACHES AFTER EACH RAINFALL AND AT LEAST DAILY DURING PERIODS OF PROLONGED RAINFALL.

### RIRAP CHECK DAMS

1. PROVIDE RIPRAP CHECK DAMS FOR DITCHES WITH STEEP THAN 2% GRADIENTS. 2. CHECK DAMS TO REMAIN IN A FUNCTIONAL CONDITION UNTIL THE GRASS ON SEEDED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE DETERRENT TO SEDIMENT RUNOFF. SEDIMENT DEPOSITS SHALL BE REMOVED BEFORE THE LEVEL OF SEDIMENTATION REACHES A POINT WITHIN 100mm OF THE CREST OF THE OVERFLOW NOTCH.

### SEDIMENT TRAPS / PONDS

- 1. SEDIMENT TRAPS AND SEDIMENT COLLECTION PONDS SHALL BE CONSTRUCTED PRIOR TO INITIAL GRUBBING AND EXCAVATION OF A
- WORK SITE AND SHALL REMAIN IN USE UNTIL THE DISTURBED AREA IS PROTECTED AGAINST EROSION BY PERMANENT STABILIZATION. SEDIMENT TRAPS / PONDS SHALL BE SIZED FOR A MINIMUM STORAGE VOLUME OF 75 CM PER HECTARE OF CONTRIBUTING DISTURBED
- AREA. THIS MAY RESULT IN MULTIPLE SEDIMENT TRAPS/PONDS THROUGHOUT THE DEVELOPMENT AREA. 3. WHEN A PERMANENT STORMWATER DETENTION POND WILL BE CONSTRUCTED FOR THE SUBDIVISION, 50% OF THE STORAGE VOLUME
- FROM THE SEDIMENT TRAPS/PONDS SHALL BE LOCATED IMMEDIATELY UPSTREAM OF THE DETENTION POND TO MINIMIZE THE AMOUNT OF SEDIMENT BUILD-UP IN THE DETENTION POND. THE REMAINDER OF THE STORAGE VOLUME OF THE SEDIMENT TRAPS/PONDS MAY BE LOCATED THROUGHOUT THE DEVELOPMENT AREA WITHIN THE DITCHES.
- 4. SEDIMENT TRAPS AND SEDIMENT COLLECTION PONDS SHALL BE INSPECTED REGULARLY AND AFTER RAINFALLS OF 5mm OR MORE. ANY DAMAGED AREAS SHALL BE REPAIRED.

### SOIL STABILIZATION

- 1. TOP AND OUTSIDE OF SLOPES OF THE EARTHEN EMBANKMENTS SHALL BE HYDRO SEEDED AND COVERED WITH JUTE MAT IMMEDIATELY AFTER INSTALLATION.
- 2. SEEDING SHALL BE CARRIED OUT WITHIN 48 HRS OF COMPLETING SURFACE PREPARATION, OR AS SOON AS POSSIBLE AFTER
- COMPLETING SURFACE PREPARATION. 3. IN STEEP AREAS, SUCH AS ROAD SIDE SLOPES, THE SEED MUST BE COVERED WITH MULCH OR AN EROSION CONTROL MAT SO THAT THE
- SEED REMAINS IN PLACE DURING ITS GERMINATION PERIOD. 4. MULCHED AREAS SHALL BE INSPECTED REGULARLY AND AFTER RAIN OF 5mm OR MORE ACCUMULATION, REPAIRED AS REQUIRED UNTIL
- THE AREA HAS STABILIZED. 5. SOD SHALL BE LAID DURING THE GROWING SEASON. SODDING SHALL NOT OCCUR DURING DRY SUMMER PERIODS, AT FREEZING
- TEMPERATURES, OR OVER FROZEN SOIL. 6. ALL SODDED AREAS SHALL BE WATERED THROUGHOUT THE GROWING SEASON OF THE YEAR IN WHICH SODDING WAS COMPLETED.

	No.	Description	Date	Date: 2023-10-19	Revision
o Plan	1	Issued For Tender	2023-10-19	Drn By: PN E.I.T	$\land$
				Chk By: NL P.ENG	<u> </u>
				Project Number:	
				231124	
				Drawing Number:	
				C100	
				C100	



	PROPERTY LINE	() MH	EXISTING MANHOLE
	PROPERTY SETBACK LINE		
	EXISTING EDGE OF ASPHALT	ОСВ	EXISTING CATCH BASIN
	EXISTING ASPHALT	15.23	EXISTING ELEVATION
	EXISTING BUILDING		PROPOSED ELEVATION
<i>7111111111</i> .	NEW BUILDING	15.23	
	NEW EDGE OF ASPHALT		EXISTING POWER POLE
	NEW ASPHALT		
	EXISTING DOMESTIC WATER LINE	⊗cs	NEW CURB STOP
· · · · ·	EXISTING DOMESTIC SANITARY LINE		
	EXISTING DOMESTIC STORM WATER LINE		
	NEW DOMESTIC WATER LINE		
	NEW DOMESTIC SANITARY LINE		
	NEW DOMESTIC STORM WATER LINE		
	DRAINAGE SWALE		
	RETAINING WALL		
	EXISTING CONCRETE		
	EXISTING GRASS		

LEGEND

# **GENERAL NOTES:**

- 1. CONTRACTOR SHALL COORDINATE THIS WORK AND COOPERATE WITH THE OWNER AND AGENCIES HAVING JURISDICTION.
- 2. CONTRACTOR MUST VISIT THE SITE PRIOR TO CONSTRUCTION AND BE FAMILIAR WITH EXISTING CONDITIONS.
- 3. VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- 4. ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS U.N.O.
- 5. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES AND SERVICES (SHOWN OR NOT SHOWN ON DRAWINGS) IN THE FIELD WITHIN THE CONTRACT LIMIT. INFORMATION SHOWN ON PLANS IS APPROXIMATE ONLY.
- 6. UNDERGROUND WATER, SEWER, TELEPHONE AND POWER SERVICES EXIST BENEATH THE SITE. EXERCISE CAUTION IN EXCAVATION AND PROTECT FACILITIES FROM DAMAGE. CONTRACTOR TO REPAIR DAMAGES AT NO COST TO THE OWNER. WORK SHALL BE CARRIED OUT TO THE SATISFACTION OF THESE AUTHORITIES. CONTACT UTILITIES BEFORE EXCAVATING.
- 7. PRIOR TO CONSTRUCTION, CONTRACTOR MUST REVIEW THE DEPTH OF ALL NEW UNDERGROUND SERVICES AND ADJUST DEPTH OF ALL SERVICES INCLUDING WATER, SANITARY SEWER, STORM SEWER, U/G ELECTRICAL & COMMUNICATION, WHERE INTERFERENCE OCCURS. ADVISE & OBTAIN APPROVAL FROM CONSULTANT BEFORE PROCEEDING WITH ANY CHANGES. COSTS ASSOCIATED WITH THIS TO BE INCLUDED IN TENDER PRICE.
- 8. THE CONTRACTOR TO INCLUDE IN THE CONTRACT PRICE COSTS ASSOCIATED WITH OVER EXCAVATION, BACKFILLING AND REINSTATEMENT DUE TO POSSIBLE MISALIGNED EXISTING UNDERGROUND SERVICES.
- 9. PERFORM WORK AND COMPLY WITH ALL FEDERAL, PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
- 10. CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY, INSTALLATION & TESTING FOR ANY ADDITIONAL MATERIALS & EQUIPMENT NOT SPECIFIED OR INDICATED ON THE DRAWINGS TO COMPLETE WORK ENSURING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND MEETING THE FUNCTIONAL REQUIREMENT OF THIS PROJECT.
- 11. CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND TESTING OF ALL PIPES AND APPURTENANCES AS PER APPLICABLE STANDARDS & AS REQUIRED BY REGULATIONS FOR A COMPLETE OPERATIONAL SYSTEM.
- 12. REPAIR & REINSTATE DISTURBED ASPHALT, GRAVELED, GRASSED & LANDSCAPED AREAS, ETC., DAMAGED BY WORK OF CONTRACT INCLUDING ALL AREAS IMPACTED BEYOND LIMIT OF CONTRACT.
- 13. ADJUST TOP OF ALL CB & MH COVERS, WATER VALVES, CURB STOPS, AND ANY UTILITIES AFFECTED BY THE WORK OF THIS CONTRACT AND NECESSARY BY THE CONSULTANT/OWNER TO SATISFY SITE CONDITIONS.
- 14. AT ANY LOCATIONS WHERE NEW STORM PIPING OR DITCHING CROSSES EXISTING WATER MAIN, CONTRACTOR IS TO PROVIDE 50mm **RIGID INSULATION ABOVE WATER MAIN.**

	No.	Description	Date	Date: 2023-10-19	Revision
ed Extension Civil Plan.	1	Issued For Tender	2023-10-19	Drn By: PN E.I.T	$ $ $\wedge$
				Chk By: NL P.ENG	<u> </u>
				Project Number:	
				231124	
				Drawing Number:	
				C101	



THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.

	Project Title	Sheet Title	No.	Description	Date	Date: 2023-10-19	Revision
	Ecole Pierre Chaisson Addition	Plans & Notes	0	Issued for Tender	2023-10-19	Drn By: SB	$\wedge$
~						Chk By: NL, P.Eng	
e						Project Number:	
						231124	
						Drawing Number:	
						S101	

1.	ALL CONCRETE WORK AND MATERIAL SHALL BE CARRIED OUT IN ACCORDANCE WITH LATEST CSA A23.1 AND NBCC 2015.
3.	MIX DESIGN: TYPE 10 PORTLAND CEMENT.
4. a	FOOTINGS AND FOUNDATION WALLS: COMPRESSIVE STRENGTH (28D): 25MPa (3600psi)
b.	CLASS OF EXPOSURE: F-2 NOMINAL AGGREGATE SIZE: 20mm (3/4")
d	SLUMP: 80mm (3-1/4") ±20mm (3/4")
e f.	AIR CONTENT: 4-7% WATER CEMENT RATIO: 0.5 MAX
5. a	INTERIOR SLABS: COMPRESSIVE STRENGTH (28D): 25MPa (3600psi)
b.	CLASS OF EXPOSURE: N
c. d	SLUMP: 80mm (3-1/4") ±20mm (3/4")
e f	AIR CONTENT: NONE WATER CEMENT RATIO: 0.45 MAX
6.	EXTERIOR SLABS:
a. h	COMPRESSIVE STRENGTH (28D): 35MPa (5000psi)
C.	NOMINAL AGGREGATE SIZE: 20mm (3/4")
d e	SLUMP: 80mm (3-1/4") ±20mm (3/4") AIR CONTENT: 5-8%
f.	WATER CEMENT RATIO: 0.40 MAX
<i>1</i> .	USE OF CALCIUM CHLORIDE IS NOT PERMITTED.
0.	VIBRATORS. VIBRATION PRACTICES TO BE IN ACCORDANCE WITH ACI 309R.
9.	COLD WEATHER CONCRETE SHALL BE PLACED AND PROTECTED
	IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1 AND TO THE REQUIREMENTS OF ACI-306R. PROVIDE HEATED
	ENCLOSURES AND/OR INSULATED TARPS AS REQUIRED TO
	FOR A PERIOD OF 5 DAYS FOLLOWING CONCRETE PLACEMENT.
	PROVIDE CONTROLLED COOL DOWN PERIOD TO PREVENT SURFACE CRACKING AT END OF PROTECTION PERIOD. ENSURE
	THAT NO CONCRETE IS PLACED ON OR AGAINST FROZEN SUBGRADE, FORMWORK, OR REINFORCING STEEL.
10	LEAVE FORMWORK IN PLACE FOR THE FOLLOWING MINIMUM
а	72 HR. FOR WALLS
b.	72 HR. FOR FOOTINGS
15	APPLY CURING COMPOUND TO WALLS AND PILASTERS IF
	FULL 7 DAY MOIST CURING PERIOD. USE LIQUID MEMBRANE
	CONCRETE CURING COMPOUND.
FO	UNDATION
1.	ENSURE NBCC SOIL GAS CONTROL REQUIREMENTS ARE
2.	FOOTINGS SHALL NOT BE PLACED ON SOIL SOFTENED BY
3.	ALL FOOTINGS SHALL HAVE A MINIMUM OF 1500mm (5'-0") FROST
1	
7.	REQUIREMENTS OF CSA 0121. USE NEW MATERIAL, CLEAN,
	SOUND, FREE FROM DEFECTS DETRIMENTAL TO THE QUALITY OF FINISHED CONCRETE SURFACES. ARRANGE PLYWOOD
	SHEETS TO A UNIFORM JOINT PATTERN. CONSTRUCT
	AND ALL OTHER CONSTRUCTION LOADINGS WITHOUT BULGING,
	MOVEMENT OR DISTORTION. REUSE OF FORMWORK SUBJECT TO THE REQUIREMENTS OF CSA A23.1.
	ALL WALL AND SLAB OPENINGS AND ENDS SHALL HAVE MINIMUN
5.	

SPECIFIED ROOF LOADS:		
ROOF DEAD LOAD:		
ROOFING MATERIAL AND FINISH ROOF TRUSS FRAMING & BRACING MECH. & ELEC. TRUSS BOTTOM CHORD (FIXTURES, ETC.)	= 2 PSF = 10 PSF = 5 PSF = 10 PSF	(0.10 kPa) (0.48 kPa) (0.24 kPa) <u>(0.48 kPa)</u>
TOTAL DEAD LOAD:	= 27 PSF	(1.30 kPa)
ROOF LIVE LOAD		
SNOW LOAD = 1.15[3.1(0.8*1.0*1*1.0)+0.6] TRUSS BOTTOM CHORD LIVE LOAD	= 74 PSF = 10 PSF	(3.54 kPa) (0.48 kPa)
TOTAL ROOF LOAD:	= 111 PSF	(5.32 kPa)
WIND PRESSURE:		
1/10 = 0.47 kPa (10 PSF) 1/50 = 0.60 kPa (13 PSF)		
NOTES:		
<ol> <li>ROOF TRUSSES TO BE DESIGNED FOR I PSF). DESIGN ROOF TRUSSES FOR SNO AS PER NBCC REQUIREMENTS.</li> <li>IMPORTANCE FACTOR IS CONSIDERED</li> <li>ALL LOADS ARE CONSIDERED UNFACTOR</li> </ol>	NET UPLIF W LOAD A HIGH DRED U.N.(	Г 0.96 kPa (20 ССИМИLАТІО ).

	LINTE	L SCHEDULE (EXTERIOR	DOOR/WINDOW OPENINGS)
	TYPE	SIZE	MIN. BEARING (E/S)
	L-1	2-PLY 38 x 184	2 JACK STUDS, 1 KING STUD
	L-2	3-PLY 38 x 235	2 JACK STUDS, 1 KING STUD
	L-3	2-PLY 45 x 302 LVL	2 JACK STUDS, 1 KING STUD
YP.)	NOTES:		

1) LINTELS ARE TO BE SAWN TIMBER S-P-F No. 1 / No. 2 GRADES OR BETTER 2) LVL MATERIAL WEST FRASER 3100F<sub>b</sub> - 2.0E LVL OR APPROVED EQUAL. 3) COORDINATE OPENING LOCATIONS WITH ARCHITECTURAL (TYP.)

## GENERAL

- THE WORK SHALL BE IN ACCORDANCE WITH NATIONAL BUILDING CODE OF CANADA (NBCC), LATEST REVISION, TO THE SATISFACTION OF THE ENGINEER UNLESS NOTES OTHERWISE ON THE DRAWING OR IN THE SPECIFICATIONS.
- COMPLY WITH ALL ENVIRONMENTAL REGULATIONS AND PROVIDE ALL NECESSARY ENVIRONMENTAL PROTECTION INCLUDING SILT FENCES, SEDIMENT TRAPS, CHECK DAMS, DUST CONTROL, ETC. DO NOT DISPOSE OF OR BURN RUBBISH ON SITE.
- COMPLY WITH ALL LOCAL, MUNICIPAL, AND PROVINCIAL BY-LAWS AND REGULATIONS.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH PEI OCCUPATIONAL HEALTH & SAFETY ACT, WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM AND APPLICABLE LABOR CODES.
- CONTRACTOR TO EXERCISE EXTREME CAUTION. DESIGN AND PROVIDE ADEQUATE SUPPORT AND CONNECTIONS TO EXISTING STRUCTURES, UTILITIES AND SERVICES. MOVE, ADJUST AND RECONNECT ALL VISIBLE AND CONCEALED ITEMS AFFECTED BY THE SCOPE OF WORK.
- CONTRACTOR MUST VISIT THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS, VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND SERVICES WITHIN THE CONTRACT LIMIT
- CONTRACTOR SHALL COORDINATE WORK AND COOPERATE WITH OWNER AND AGENCIES HAVING JURISDICTION.
- REPORT ANY DOUBTFUL CONDITIONS REQUIRING DECISIONS AND SECURE DIRECTIONS FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE GENERAL CONTRACTOR-PROJECT MANAGER SHALL COORDINATE THE CIVIL, STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- 0. PREVENT MOVEMENT OR SETTLEMENT, SAFEGUARD AND MAINTAIN INTEGRITY OF EXISTING AND ADJACENT STRUCTURES AND SERVICES.
- VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- 2. ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS UNLESS NOTED OTHERWISE.
- . REPAIR & REINSTATE DISTURBED ASPHALT PAVEMENT, GRASSED & LANDSCAPED AREAS, SIGNS, RETAINING WALLS, ETC., DAMAGED BY WORK OF CONTRACT INCLUDING ALL AREAS IMPACTED BEYOND LIMIT OF CONTRACT. TOPSOIL, SEED OR SOD ALL GRASSED SURFACES UNLESS NOTED OTHERWISE.
- 4. PROPERLY DISPOSE AND REMOVE OFFSITE ALL DEBRIS AND MATERIALS TO BE REMOVED.

### ROUGH CARPENTRY NOTES:

- ALL WOOD STRUCTURAL MEMBERS, ASSEMBLIES AND FASTENERS SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD O86 (LATEST EDITION).
- ALL LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK IN ACCORDANCE WITH THE MARKING PROVISIONS OF CSA STANDARD 0141.
- ALL LUMBER SHALL BE STRUCTURAL GRADE DRY, S-P-F NO. 2 MINIMUM, MOISTURE CONTENT NOT GREATER THAN 19% AT INSTALLATION.
- ALL PLYWOOD SHALL BE EXTERIOR GRADE DOUGLAS FIR PLYWOOD TO CSA 0121 AND MANUFACTURED WITH WATERPROOF GLUE.
- PROVIDE FULL WIDTH 38mm (1-13mm) THICK WOOD NAILER PLATE ON FLANGES OF STEEL BEAMS AS REQUIRED. SECURE WITH 12mm (13mm) DIA. BOLTS AT 610mm (24") ON CENTER STAGGERED.
- PROVIDE GALVANIZED METAL JOIST HANGERS WHERE JOISTS NOT SUPPORTED ON WALLS OR BEAMS. SIZE ADEQUATE TO SUPPORT DESIGN LOADS.
- ALL FASTENERS AND METAL IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR APPROVED EQUAL.
- 8. ALL BEARING SHALL BE CONTINUOUS TO FOUNDATION UNLESS NOTED OTHERWISE.
- 9. SHEATHING SHALL BE FASTENED AT 150mm (6") ON CENTER AT EDGES AND END SUPPORTS AND AT 300mm (12") CENTERS AT INTERMEDIATE SUPPORTS.
- 10. REQUIRED TRUSS/JOIST ANCHORS, CLIPS, HANGERS, ETC. SHALL BE DESIGNED AND SUPPLIED BY TRUSS/JOIST MANUFACTURER TO ACCOMMODATE ALL LOADS, INCLUDING UPLIFT.
- 11. VENTILATE AND FIRE STOP ALL SPACES TO NBCC REQUIREMENTS.

## WOOD TRUSS NOTES:

- ALL TRUSSES SHALL BE DESIGNED FOR SNOW AND WIND LOAD AS PER NBCC AND INCREASED LOADS FOR SNOW DRIFT AT HIGHER OBSTRUCTIONS.
- DESIGN TO SUPPORT THE LOADS INDICATED WITH A MAXIMUM SPAN DEFLECTION, UNDER LIVE LOAD, OF 1/240 FOR ROOF AND 1/480 FOR FLOOR. TRUSS MANUFACTURER TO SIZE AND PROVIDE REQUIRED LVL BEAMS. INCORPORATE PIGGYBACK TRUSSES AS REQUIRED.
- PROVIDE TEMPORARY ROOF AND WALL BRACING TO SUPPORT LOADS AND KEEP STRUCTURE STABLE DURING INSTALLATION.
- PROVIDE HORIZONTAL BRIDGING AS REQUIRED BY TRUSS DESIGN. REFER TO TRUSS SUPPLIERS SHOP DRAWINGS (U.N.O.). MANUFACTURED WOOD TRUSS SYSTEM TO BE DESIGNED BY
- MANUFACTURER AND SEALED BY AN ENGINEER LICENSED TO PRACTICE IN PEI. PROVIDE GABLE END TRUSSES AS REQUIRED ALL LOCATIONS.
- PROVIDE TYPICAL TRUSS AND GABLE END TRUSSES WHERE STEEL BEAM IS NOT DETAILED AT GABLE END.
- COORDINATE TRUSS DESIGN AND CONFIGURATION WITH ROOF MOUNTED MECHANICAL EQUIPMENT AND MECHANICAL DUCTING AND ADJUST TRUSS WEBBING AS REQUIRED TO SUIT.

![](_page_4_Figure_0.jpeg)

![](_page_4_Figure_2.jpeg)

![](_page_4_Picture_3.jpeg)

![](_page_4_Figure_5.jpeg)

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.

![](_page_4_Figure_7.jpeg)

![](_page_4_Figure_8.jpeg)

![](_page_4_Picture_9.jpeg)

![](_page_5_Figure_0.jpeg)

COLES Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street Charlottetown, PEI, Canada, C1A 1R6 Phone (902) 368-2300 www.colesassociates.com

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD. STRICTLY PROHIBITED.

![](_page_5_Figure_4.jpeg)

![](_page_5_Picture_5.jpeg)

Project Title Ecole Pierre Chaisson Addition

Sheet Title Sections &

	No.	Description	Date	Date: 2023-10-19	Revision
Details	0	Issued for Tender	2023-10-19	Drn By: SB	$\wedge$
				Chk By: NL, P.Eng	<u> </u>
				Project Number:	
				231124	
				Drawing Number:	
				S102	

	MARKS	REM	FINISH	HARD- WARE	FRAME	IATERIAL	FIRE RATING	THICK.	Ξ (mm)	SIZE	DOOR TYPE	4ME	DOM N	RO	ROOM NUM.	ME	ROOM NAM	ROOM NUM.	DOOR NUMBER
508									1				0000		000				
<del>**</del>	N PANEL	VISIO	L-ANODIZED PAINT	AL-1 HW-1	F1 F2	WOOD	- 45	45mm 45mm	x 2134 x 2134	2x914 914 >	<u>В</u> А			CLA	208A 127	R R	CORRIDOF	208A	208A 127
127	N PANEL	VISIO	PAINT	HW-1	F2	WOOD	45	45mm	x 2134	914 >	Α	ЮМ	ASSR	CLA	128	)R	CORRIDOF	208A	128
"TYP wood, wo					REMARKS	WIN. TRIM			 	v	BASE		R	FLOOI					
STEEL WRAP A						SILL		USTIC nm AFF		VTED		ASF			E TILE				
[ s						ED WOOD S	ED STEEL	ENDED ACO JG AT 2743n		SM BD, PAIN	MIC TILE	FR COVE B/			COMPOSIT VIC TILE				
						PAINT -	- PAINT	SUSPI CEILIN		- GYPU	CERAI	- RUBB			VINYL		NAME	ROOM	ROOM NUM.
						*	*	*		*	*	<b>*</b>			*			CLASS	208A
						*	*	*		*	+	*			*		ROOM	CLASSI	128
DRS IN EXTERIOR WALLS TO: KPANSION AND CONTRACTION ITURE RANGE OF -35 TO 35 DE OF MULLIONS TO MAXIMUM 1/ N TESTED TO ASTM E 330 UND N SYSTEM. EEN SYSTEM AND PERIMETER SUBSTRATE. KEYING TO BE 11 OWNERS NEEDS.	ALUMINUM ENTRANCES GN CRITERIA. DESIGN FRAMES AND DO .1 ACCOMMODATE SERVICE TEMPER .2 LIMIT DEFLECTIO CLEAR SPAN WHI LOAD OF 1.2 KPA .3 MOVEMENT WITH .4 MOVEMENT BETV COMPONENTS OI COORDINATED W	DN 08 11 16 - .1 DESI .1	SECTI	IBS. LLS AND	ONCRETE SL ABLE. D ON ALL WA L CASES. VITH PRIMER JFACTURER.	IL UNDER ( BE ACCEP - TO BE US ATION IN A DHERING) ERMEABLE ED BY MAN	RETARDERS ARRIER NE SHEET 15 R 15 MIL SHAL NE SHEET 6 M APPLICABLE. SIDE OF INSI IERS BRANE (SELF VE, VAPOUR- E RECOMMEN	- VAPOUR B VAPOUR B DLYETHYLE ERMANATO DLYETHYLE EILINGS AS E ON WARM - AIR BARF RRIER MEM ELF-ADHES RIMER: TYP	N 07 26 00 SHEET a. P( PE b. P( C LOCAT N 07 27 00 AIR BA a. S b. P	SECTIOI 1. 2. SECTIOI 1.	IMUM ND ITH ENED :ABLE	ORCED ED A MII I IS CTURE RCED V E THICH 1 APPLI THER	E REINI FOUND NDATIO W STRL REINFC WILL E DADS. 'LY WIT ED BY C RK.	VILL BE INGS F FOUN E NEW RETE F (NESS TED LO. COMPL SION). SION). IOVIDE FE WOF	ATION V HE FOOT UILDING S FOR TH E CONC AB THICK ENTRAT I SHALL ST REVI L BE PR ONCRET	TE FOUND VITH TH LOADS N PLAC THE SLA CONC JCTION 3 (LATE INS WIL INS WIL I THE C	ACE CONCRETE ED THAT ALL FC CONCRETE WI IISH GRADES. T UPPORT THE L ILL BE CAST IN WIRE MESH. TH LOADING AND C AND CONSTRUC 3.1/A23.2/A23.3 ( ITS AND DRAIN INATED WITH T	ANTICIPAT FIN-PLACE BELOW FII GNED TO S PMENT. GRADES W WELDED ' OF HEAVY E DESIGN. DARDS A2' AB CONDU ND COORE	03 30 00 - 0 BUILDING a. IT IS CAS 1.5M DES EQU SLAB-ON- REBAR O IN AREAS CONCRET CSA STAM UNDER-S TRADES /
ND GLASS UNIT DIMENSIONS N/CGSB-12.20. IM E283 AT 75 PA PRESSURE	SIZE GLASS THICKNESS IN ACCORDANCE WITH ( AIR INFILTRATION: TO A: DIFFERENTIAL.	.2 .3		0 NS, PRINTEL	SHEATHING. LUESKIN VP1	CRETE AND E: HENRY, E ACTURER'	ATION ON CO F ACCEPTAN E <b>TAL ROOFIN</b> WINGS, MAN	DR INSTALL FANDARD C - SHEET M SHOP DRA	c. FC d. S <sup>-1</sup> N 07 61 00 SUBMI <sup>-1</sup>	SECTIO	: IONS. G	INCRET LOCA GARDII LAS	TING CO SPECIFI AILS RE AS WE	R EXIST D AT SI E DETA IBERS	NTS FOR EQUIRE PROVID RAL MEM	IREMEI LEBER SWILL RUCTUF	AND CORING: ORING REQUIR ND SLABS WILL AL DRAWINGS DRING OF STRU	E CUTTING FING AND C NDATION A STRUCTUF FING OR CC	CONCRET a. CUT FOU b. THE CUT
DOOR AND FRAME SHALL NO METER CRACK. R BARRIER AND VAPOUR RET/ . PRIMARILY IN LINE WITH INSI	0.3 L/S/SQ.M. PER PROVIDE CONTINUOUS THROUGH DOOR SYSTE	.4		TAL ROOFIN DE CRITERIA	OR SHEET ME PERFORMAN STM A 653/A (	SHEETS F TERISTICS ATIONS.	URE AND DA DUCT CHARA NISH AND LIM	CT LITERA CLUDE PRO AL SIZE, FI	PRODU AND IN PHYSIC MATER	2		VILL BE ER	SLABS	RETE S			REPAIR OF INT	UIRED.	c. PAT REQ ALL DRAV
D OF GLAZING COMPOUND. SIONS: TO ASTM B221, 6063 AL	OF GLASS AND HEEL BE MATERIALS: .1 ALUMINUM EXTR	.5	ACE, S. OF	ANGLE SURI AL THICKNE EN STYLE R	REGULAR SF UM BASE ME GAUGE BAT	5 COATING 28 GA MININ ROOFING, 2	LITY, WITH Z2 ECIFIED IN 2.2 ISHED METAL	ERCIAL QUA NISH AS SP PRE-FIN	COMME PRE-FII	Ζ.			LAND.	ARD ISI	CE EDWA	F PRINC	Province of I Pentry	RED IN THE	REGISTER 06 10 00 - I LUMBER:
TO ASTM B209, 6063 UTILITY C SURFACES, ANODIZING QUALIT	T5 TEMPER. .2 SHEET ALUMINUM FOR UNEXPOSED		EST	E APPROVA FING BY VIC	NDING SAMPI E METAL ROC	RS ON RIBS (ISTING (PE T: PRESTIG	406 MM CENT R: TO MATCH I ABLE PRODU	PANEL, COLOUI ACCEP			١G	URE OLLOW	8, MOIS WITH F	D, S4S ANCE	)FTWOO ACCORD	ISE, SC SS IN A	IED OTHERWIS S-DRY) OR LES	ESS SPECIF TENT 19% ( NDARDS:	a. UNL CON STA
ES. LASTOMERIC WEATHERING OI /ITH SEMI-RIGID POLYMERIC B	EXPOSED SURFA .3 WEATHERSTRIP: TUBULAR SHAPE				PING. -REFLECTIVE	RUCE STRA RING, HEA	ROVED EQUA ING: 1" X 4" SI AY: SELF-ADF AYMENT TO I	OR APP STRAPF UNDERI	.2 .3			IR. T	N LUMB ARE NO	IADIAN MBER A	FOR CAN TED) LUI	RULES F R-JOIN	D GRADING RU NTED (FINGER-	A STANDAF ED END-JO EPTABLE.	ii. NLG b. GLU ACC
TORS: RIGID PVC EXTRUSIONS	.4 THERMAL SEPAR DOOR CLADDING .5 DOOR BUMPERS:		4	BY SOPRE	BITUMEN AN E. ND SHIELD H	S MODIFIE LYETHYLE T: LASTOBO	RESISTANT. S FED WOVEN F ABLE PRODU	WATER LAMINA ACCEP			TS,	KS, CA	NBC. GH BU(	, ROUG	RDANCE ROUNDS 3:	ACCO RIPS, GI EPERS	) LUMBER: IN A , NAILING STRIF (ING AND SLEE ABLE.	AND BOAR BLOCKING ASCIA BACI	FRAMING FURRING CURBS, F a. S4S
AL: ADJUSTABLE DOOR SEAL ( DMERIC BLADE SWEEP STRIP ENERS, RECESSED IN DOOR	.6 DOOR BOTTOM S EXTRUDED ELAS CONCEALED FAS BOTTOM, CLOSEI		S 500	ON ALL EAV COLOUR TO DEFENDER	R STRIPPING G UP RAKES. DUCT: SNOW	TAL STARTI R STRIPPIN PTABLE PRO	ROVED EQUA R STRIP: 4" M METAL START ROOF METAL SUARDS: ACCI	OR APP STARTE AND 2" MATCH SNOW ( OR APP	.4 .5		DE. ION. A FOR	ER GRA STRUC <sup>1</sup> ED. OF NI C	OR BET RADE. RD CON REQUIR RUI ES	ADE. AING OI ER GR ANDAR S AS RI ADING B	TER GRA HT FRAM OR BETT 0121, STA G, CURBS CIAL GRA	OR BET RD" LIGI DARD" ( OCSA C OCKIN( E OFFIC	STANDARD" OR ES: "STANDARD BIZES: "STANDA OOD (DFP): TO ( RPENTRY, BLO PI Y WITH THE (	RD SIZES: " INSION SIZ TIMBERS FIR PLYWO ROUGH CA	b. BOA c. DIMI POST ANI DOUGLAS PROVIDE
ENDS. IG: ALKALI RESISTANT BITUMIN								LATION:	INSTAL	3.	CAL	LECTR	ED.		EFSC CE	R TO BE		SHALL COM	E U U E U O U O
ENDS. G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT	.8 INSULATED GLAS TO CAN/CGSB-12 SEALED, ARGON		N 3,	SPACED 24" CE STRAPPII	STRAPPING, ONTAL SPRU	AL SPRUCE " X 4" HORI	1" X 4" VERTI ING. INSTALL	INSTALL SHEATH	.1			FRIOR	RATEX				ALL LUMBER T ED PLYWOOD	6HALL COM N LUMBER FIRE TREA NT. CONTACT 1	PROVIDE EQUIPME WOOD IN
ENDS. G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNI CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL TING ON SURFACE TWO. 6 MM CLEAR TEMPERED GLAS	.1 OUTER LIT .8 INSULATED GLAS TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER. .1 OUTER LIT LOW-E CO .2 INNER LIT		N 3, 5.	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF W GUARDS. WITH A F	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS	AL SPRUCE " X 4" HORI." E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W	1" X 4" VERTI ING. INSTALL 16" ON CENT AND AROUND AND 3RD RC ING TO ALLO STRAPPING E SINK HEAD	INSTALL SHEATH SPACED RAKES THE 2NI STRAPF INSTALL	.1			TERIOR	ATED.	TE, OR E TREA UT DR/ TYREN	CONCRE RVATIVE	D MOUN RY OR ( PRESE ED THR RUDED	ALL LUMBER TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATED PTANCE: EXTRI	HALL COM N LUMBER FIRE TREA' NT. CONTACT ' IS SHALL B COARD INS INSULATIO D OF ACCE	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR
ENDS. G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GLAS S: 6 MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 5: 25 MM SHOP FABRICATED P, DOORS. DOORS D SWING DOOR WITH GLASS A	A     SOLATION COAT     PAINT EPOXY RE     A     INSULATED GLAS     TO CAN/CGSB-12     SEALED, ARGON     WITH LOW COND     EDGE SPACER.     1     OUTER LIT     LOW-E CO     .2     INNER LITI     .9     ALUMINUM PANE     FINISH TO MATCH     SWING-TYPE ALUMINUM     .1     ALUMINUM PANE	.6	N 3, 3. DT	SPACED 24" CE STRAPPII NDS ALONG OWN VALLE' RUN OF N GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND : R TO MATCH	STRAPPING, ONTAL SPRU AND FILL INE SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS CREW MUST E OF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU	AL SPRUCE " X 4" HORI, E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R.	1" X 4" VERTI ING. INSTALL 16" ON CENT AND AROUND ) AND 3RD RC ING TO ALLO STRAPPING R SINK HEAD R STRATER STR	INSTALL SHEATH SPACEL RAKES THE 2N STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL	.1			TERIOF 3. NALLS ATE	R AT EX ATED. AWING IE DATION	TE, OR E TREA UT DR/ TYREN FOUND YISOC	CONCRE RVATIVE POLYS <sup>3</sup> 35 AND F BLIES IIN AIR, POL BLIES	D MOUI RY OR ( PRESE ED THR RUDED E SLAE ASSEMI 0 PSI M ENER-4 S	ALL LUMBER <sup>-</sup> TED PLYWOOD WITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE -VALUE PER AS STRENGTH: 30 PTANCE: IKO ERIOR WALLS -VALUE PER AS	HALL COM N LUMBER FIRE TREA' VT. CONTACT I IS SHALL B COARD INS INSULATIO D OF ACCE KNESS & R PRESSIVE D OF ACCE ATION: EXT XNESS & R	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC
INDS. G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL S: 6 MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 5: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAP BLOCK FAS H SIGMA DEEP PENETRATION	A SULATED GLAS     A SULATED GLAS     INSULATED GLAS     TO CAN/CGSB-12     SEALED, ARGON     WITH LOW COND     EDGE SPACER.     .1 OUTER LIT     LOW-E CO     .2 INNER LITI .9 ALUMINUM PANE     FINISH TO MATCH     SWING-TYPE ALUMINUM .1 ALUMINUM-FRAM     ALUMINUM-FRAM     ALUMINUM PANE     INCLUSION IN CU .2 ENSURE STILES /     DESIGNED FOR M     COMBINATION W     WELDS AND FILL	.6	N 3, 5. DT E IN ENT	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF N GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND ( R TO MATCH FING. SECUR	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS CREW MUST E OF 1/16". SF IE RAFTERS. PING ON ALL KES. COLOU I METAL ROC NIMUM. FELT UNDEF	AL SPRUCE " X 4" HORI: E UP ROOF NY PROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R INGS. NDER SHEE 3 100 MM M ER ASPHAL	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING I R SINK HEAD STRAPPING I R SINK HEAD ABLE. 4" METAL ST TARTER STR ETAL. POSED FASTE UNDERLAY I ND LAP JOIN SLIP SHEET O	INSTALI SHEATH SPACED RAKES THE 2NI STRAPF INSTALI COUNTI COUNTI EVERY ACCEP <sup>T</sup> INSTALI METAL ROOF M USE EX INCLUD PLACE APPLY	.1 .2 .3 .4 .5 .6			TERIOF 3. WALLS ATE 0MM	ATED. ATED. AWING IE DATION SYANUF	TE, OR TREA UT DR/ TYREN OUND YISOC	CONCRE RVATIVE COUGHO POLYS <sup>3</sup> 35 AND F BLIES IIN AIR, POL BLIES IIN RD	D MOUI RY OR C PRESE ED THR RUDED E SLAE ASSEMI 6 PSI M L GUAI TION LLS IM CON	ALL LUMBER <sup>-</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE VALUE PER AS STRENGTH: 30 PTANCE: IKO EI ERIOR WALLS -VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALL M PANELS, 8MM	HALL COM N LUMBER FIRE TREA' VT. CONTACT V IS SHALL B COARD INS INSULATIO D OF ACCE ATION: UNE KNESS & F PRESSIVE D OF ACCE ATION: EXT KNESS & F PRESSIVE D OF ACCE CRETE TOF ATION: FOU IM X 1220M	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION <b>07 21 13 - I</b> PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. CON b. LOC c. 6100
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL TING ON SURFACE TWO. 6 MM CLEAR TEMPERED GLAS 3: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRI CHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH	<ul> <li>PAINT EPOXY RE</li> <li>INSULATED GLAS</li> <li>TO CAN/CGSB-12</li> <li>SEALED, ARGON</li> <li>WITH LOW COND</li> <li>EDGE SPACER.</li> <li>.1 OUTER LIT</li> <li>LOW-E CO</li> <li>.2 INNER LITI</li> <li>9 ALUMINUM PANE</li> <li>FINISH TO MATCH</li> <li>SWING-TYPE ALUMINUM</li> <li>.1 ALUMINUM-FRAM</li> <li>ALUMINUM-FRAM</li> <li>ALUMINUM PANE</li> <li>INCLUSION IN CU</li> <li>.2 ENSURE STILES A</li> <li>DESIGNED FOR N</li> <li>COMBINATION W</li> <li>WELDS AND FILLI</li> <li>CONSTRUCT DOC</li> <li>DISTORTION, WA</li> <li>DEFECTS DETRIN</li> </ul>	.6	N G, S. DT E IN ENT	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF W GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND : FING. SECUE LAY TO PRE AYMENT. MM STENERS IMENDATIO	STRAPPING, ONTAL SPRU SIONS AND E SIONS AND E BE A DOUBLE NING OF SNC DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU I METAL ROC NIMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER SELS USING FA RECO	AL SPRUCE " X 4" HORI, E UP ROOF NY PROTRI /S ARE TO FOR FASTI BING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R. INGS. IDER SHEE 3 100 MM M ER ASPHALA IAGE AND L I OF WATEF ROOF PAN "URER'S	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING ICR SINK HEAD RSUNK HEAD RSUNK HEAD ABLE. 4" METAL ST. STARTER STR ETAL. POSED FASTE UNDERLAY ND LAP JOIN SLIP SHEET O' G BETWENCH MIN DIRECTIO SHEET METAL SHEET METAL	INSTALL SHEATH SPACED RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI COUNTI EVERY ACCEP INSTALL METAL SECURI BONDIN SECURI MINIMU INSTALL SPACED	.1 .2 .3 .4 .5 .6 .7		₹ <b>S</b> ,	TERIOF 3. WALLS ATE 0MM ANCHC 2N.	ATED. ATED.	TE, OR TREA TREA UT DR/ TYREN OUND YISOC BONDE 3 CON	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 35 AND F BLIES IIN AIR, POL BLIES IIN RD VCRETE EL WITH RADE. ERAL FIE	D MOUI RY OR C PRESE ED THR RUDED TE SLAB ASSEMI 6 PSI M ENER-7 3 ASSEMI 6 PSI M L GUAI TION LLS IM CON ELOW G COR MIN	ALL LUMBER <sup>-</sup> TED PLYWOOD VITH MASONRY E PRESSURE PL JLATION N AS INDICATED PTANCE: EXTRI ER CONCRETE -VALUE PER AS STRENGTH: 30 PTANCE: IKO EL ERIOR WALLS -VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NATTACH EACH RS 200MM BEL SULATION STANDARD FOF	HALL COM N LUMBER FIRE TREA' VT. CONTACT I IS SHALL B COARD INS INSULATIO D OF ACCE ATION: UNIE D OF ACCE ATION: EXT KNESS & R PRESSIVE D OF ACCE CRETE TOF ATION: FOU IM X 1220M LATION (R' HANICALLY ATE ANCHO STO2-1997,	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION OT 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC c. G10M STANDAR a. CON b. LOC c. 610M INSL d. MEC LOC
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL TING ON SURFACE TWO. 6 MM CLEAR TEMPERED GLAS 3: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS F SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU MM MARINE GRADE PLYWOOD RDWARE.	<ul> <li>A INSULATED GLAS</li> <li>INSULATED GLAS</li> <li>INSULATED GLAS</li> <li>TO CAN/CGSB-12</li> <li>SEALED, ARGON</li> <li>WITH LOW COND</li> <li>EDGE SPACER.</li> <li>.1 OUTER LIT</li> <li>.9 ALUMINUM PANE</li> <li>FINISH TO MATCH</li> <li>SWING-TYPE ALUMINUM</li> <li>.1 ALUMINUM-FRAM</li> <li>ALUMINUM-FRAM</li> <li>ALUMINUM PANE</li> <li>INCLUSION IN CU</li> <li>.2 ENSURE STILES A</li> <li>DESIGNED FOR M</li> <li>COMBINATION W</li> <li>WELDS AND FILLI</li> <li>CONSTRUCT DOC</li> <li>DISTORTION, WA</li> <li>DEFECTS DETRIN</li> <li>APPEARANCE.</li> <li>.5 FABRICATE INFILL</li> <li>LAMINATED TO 19</li> <li>.6 INSTALL DOOR H.</li> </ul>	.6	N G, S. DT E IN ENT S. RS.	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF W GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND : TAUES AND : TAUES AND : TAUES AND : MM STENERS MENDATIO ED FASTEN G OF ONE RI MUM OF 8". TAL PANELS HE RIBS AT	STRAPPING, ONTAL SPRU SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU F METAL ROC NIMUM. FELT UNDEF AND UNDER AP JOINTS 50 FLOW. ELS USING FA RECO USING EXPOS LAP ON SIDE PANEL A MINI EDGE OF ME STALLED ON	AL SPRUCE " X 4" HORI, E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R. INGS. NDER SHEE S 100 MM M ER ASPHAL AGE AND L IOF WATEF ROOF PAN "URER'S NG PANELS /C AN OVEI OF METAL ON BOTTOI TENERS IN	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLO AND 3RD RC ING TO ALLO STRAPPING ISTANTA ABLE. 4" METAL ST. 5TARTER STR ETAL. POSED FASTE UNDERLAY IND LAP JOIN G BETWEEN ST WITH ANCHO SHEET META TO MANUFAC METAL ROOF HEET MUST H PAND BOTTO FITTED FOAM EAVE LINE. FA	INSTALL SHEATH SPACEL RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL ROOF M USE EX INCLUD PLACE / APPLY BONDIN SECURI MINIMU INSTALL SPACEL INSTALL SPACEL INSTALL SPACEL INSTALL SPACEL INSTALL EACH S AND TO INSTALL EACH S	.1 .2 .3 .4 .5 .6 .7 .8		₹S,	TERIOF S. WALLS ATE OMM ANCHC DN. BRE: TO 3Y	ATED. ATED.	TE, OR TE, OR TREA TYREN FOUND YISOC' BONDE 3 CON BRE IN T MINE	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 3S AND F BLIES IIN AIR, POL BLIES IIN RD NCRETE EL WITH RADE. ERAL FIE BLANKE ACHIEVE XWOOL	D MOUR RY OR ( PRESE ED THR RUDED TE SLAG SSEME 0 PSI M ENER-/ 3 SSEME 6 PSI M L GUAI TION LLS MM CON H PANIE ELOW G DR MIN IT AND ED TO / 2.5 ROL	ALL LUMBER <sup>1</sup> TED PLYWOOD WITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE CONCRETE ER CONCRETE STRENGTH: 30 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS, 8MM 0) ATTACH EACH RS 200MM BEL SULATION STANDARD FOF EMBLIES: BATT 2 MM REQUIRELE RODUCT: R-22.5	HALL COM N LUMBER FIRE TREA' VT. CONTACT 1 IS SHALL B COARD INSI INSULATIO D OF ACCE ATION: UNIE D OF ACCE ATION: EXT PRESSIVE D OF ACCE CRETE TOF ATION: FOL IM X 1220M LATION (R' HANICALLY ATE ANCHO CRETE TOF CRETE TOF ATION: FOL IM X 1220M LATION (R' HANICALLY ATE ANCHO CREATE IN S702-1997, X WALL ASS S702. :: 1. KNESS: 15: EPTABLE P	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. CON b. LOC C. 6100 INSL d. MEC LOC 07 21 16 - I CAN/ULC EXTERIOI CAN/ULC C. ACCC c. ACCC c. ACCC
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL TING ON SURFACE TWO. 6 MM CLEAR TEMPERED GLAS S: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH ENTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU MM MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOC	<ul> <li>PAINT EPOXY RE</li> <li>INSULATED GLAS TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER.</li> <li>OUTER LITI LOW-E CO</li> <li>INNER LITI</li> <li>ALUMINUM PANE FINISH TO MATCH SWING-TYPE ALUMINUM</li> <li>ALUMINUM-FRAM ALUMINUM-</li></ul>	.6	N G, S. DT ENT S. RS.	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF W GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND : TO MATCH FING. SECUE LAY TO PRE AYMENT. MM STENERS MMENDATIO ED FASTEN G ONE RI MUM OF 8". TAL PANELS HE RIBS AT AS NOT TO IN LENGTH IN LENGTH IN LENG RC	STRAPPING, ONTAL SPRU SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS OF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU I METAL ROC NIMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER STALLED ON SIDE PANEL A MINI EDGE OF ME PANEL A MINI	AL SPRUCE X 4" HORI E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R INGS. NDER SHEE 3 100 MM M CR ASPHAL 4 GET META AGE AND L OF WATEF ROOF PAN URER'S NG PANELS /E AN OVEL OF METAL ON BOTTOI ON BOTTOI CIGH G. SCREWS E SEAMS IN TIONS WITT	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING I R SINK HEAD RSUNK IN WC 4" AND INSTA ABLE. 4" METAL ST. TARTER STR ETAL. POSED FASTE UNDERLAY I ND LAP JOIN G BETWEEN S WITH ANCHC SHEET MUST H O AND BOTTO FITTED FOAN EAVE LINE. FA RUN OF STRA METAL ROOF R TRANSVER COOF PENET	INSTALL SHEATH SPACEL RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL ROOF M USE EXX INCLUD PLACE // BONDIN SECURI MINIMU INSTALL SPACEL INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL EACH S	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10		₹S,	TERIOF S. WALLS ATE OMM ANCHC DN. BRE: TC BRE: TC 3Y 2 S702.	ATED. ATED.	TE, OR TE, OR TREA TYREN: FOUND YISOC' BONDE 3 CON BRE IN: ET MINE E R-26. INSUL EEN UN E TO C.	CONCRE RVATIVE 2000GHO POLYS <sup>3</sup> 33 AND F BLIES IIN AIR, POL BLIES IIN RD NCRETE EL WITH RD EL WITH RADE. ERAL FIE BLANKE ACHIEVE XWOOL S BETWE AL FIBRE	D MOUI RY OR C PRESE ED THR RUDED TE SLAE ASSEME 0 PSI M ENER-/ 3 ASSEME 6 PSI M ENER-/ 3 ASSEME 6 PSI M L GUAF TION LLS MM CON ED TO / 2.5 ROC 2.5 ROC 2.5 ROC 2.5 MINER/	ALL LUMBER <sup>+</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE ER CONCRETE ER CONCRETE INDUCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS, 8MN 0) ATTACH EACH ROADLS, 8MN 0) ATTACH EACH RS 200MM BEL SULATION STANDARD FOF EMBLIES: BATT 2 MM REQUIRELE RODUCT: R-22.5 APPROVED EG RATED ASSEM ND BLANKET M	HALL COM N LUMBER FIRE TREA' VT. CONTACT I IS SHALL B CONTACT I IS SHALL B COARD INSI INSULATIO D OF ACCE XTION: UNE KNESS & R PRESSIVE D OF ACCE CRETE TOF ATION: FOU IM X 1220M LATION (R' HANICALLY ATE ANCHO STO2-1997, WALL ASS STO2. E: 1. KNESS: 15: EPTABLE P WALL ASS STO2. E: 1. KNESS: 15: EPTABLE P WALL FIRE RS: BATT A E: 1. KNESS: 15:	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION OT 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC c. 610M J. LOC C. 610M J. LOC C. COM STANDAR A. COM STANDAR STA
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL TING ON SURFACE TWO. 6 MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 6: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION F WELDS AT ALL STILE/RAIL 44 MM. 85 SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU MM MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. RAIL NOMINAL 98.4 MM WIDE F IS 6 MM.	<ul> <li>PAINT EPOXY RE</li> <li>INSULATED GLAS TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER.</li> <li>OUTER LITI LOW-E CO</li> <li>INNER LITI</li> <li>ALUMINUM PANE FINISH TO MATCH SWING-TYPE ALUMINUM</li> <li>ALUMINUM-FRAM ALUMINUM-FRAM ALUMINUM-FRAM ALUMINUM-FRAM COMBINATION IN CU</li> <li>ENSURE STILES A DESIGNED FOR M COMBINATION W WELDS AND FILLI CONNECTIONS.</li> <li>DOOR THICKNES:</li> <li>CONSTRUCT DOC DISTORTION, WA DEFECTS DETRIM APPEARANCE.</li> <li>FABRICATE INFILI LAMINATED TO 15</li> <li>INSTALL DOOR H.</li> <li>ACCEPTABLE PR</li> <li>TYPE 1 INSULA</li> <li>ACC OR</li> <li>TYPE 1 INSULA</li> <li>ACC OR</li> <li>TYPE 1 INSULA</li> <li>ACC OR</li> <li>TYPE 1 INSULA</li> <li>ACC OR</li> <li>TO OR</li> <li>TO MIN</li> </ul>	.6	N G, S. DT ENT S. RS.	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF W GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND I TO MATCH FING. SECUR LAY TO PRE AYMENT. MM STENERS MMENDATIO ED FASTEN G ONE RI MUM OF 8". TAL PANELS HE RIBS AT NO FONE RI MUM OF 8". TAL PANELS AYMENT TO IN LENGTH IN LEN	STRAPPING, ONTAL SPRU SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS CREW MUST I OF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU I METAL ROC NIMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER SING EXPO LAP ON SIDE PANEL A MINI EDGE OF ME PANEL A MINI EDGE OF ME EN SCREWS ARE TO BE 2 ADJACENT P MATERIAL M TER-FLOW A . VENT PIPES TONS. ALL E	AL SPRUCE X 4" HORI: E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R INGS. NDER SHEE 3 100 MM M ER ASPHAL AGE AND L I OF WATEF ROOF PAN URER'S NG PANELS /E AN OVEL OF METAL ON BOTTOI DOF METAL ON BOTTOI SEAMS IN TIONS WITT TION OF W G OVER AL COMMENDA	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING I R SINK HEAD CR SINK HEAD R SINK HEAD ABLE. 4" METAL ST, TARTER STR FOSED FASTE OSED FASTE UNDERLAY I ND LAP JOIN G BETWEEN CONTO MANUFAC METAL ROOF HEET MUST H AND BOTTO SHEET MUST H AND BOTTO FITTED FOAN FAVE LINE. FA RUN OF STRA METAL ROOF FITTED FOAN FAVE LINE. FA	INSTALL SHEATH SPACED RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL ROOF M USE EXX INCLUD PLACE BONDIN SECURI MINIMU INSTALL SPACED INSTALL ALONG EVERY DIMPLE STAGGI FLASH f PANELS FORM S WATER	.1 .1 .2 .3 .4 .5 .6 .7 .8 .8 .9 .10 .11 .12		RS, VOOL DING N	TERIOF 3. WALLS ATE OMM ANCHC DN. BRE: TC 3Y 2 S702. 7 ROCK A, INCL ALLATI NS, AN	ATED. ATED.	TE, OR TE, OR TREA TREA TYREN FOUND YISOC' BONDE 3 CON BRE IN TREA TREA TREA TREA TREA TREA TREA TREA	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 33 AND F BLIES IIN AIR, POL BLIES IIN RD NCRETE EL WITH RD NCRETE EL WITH RADE. ERAL FIE BLANKE ACHIEVE CXWOOL II URER'S 1 UCT CAT ALLATIO	D MOUI RY OR ( PRESE ED THR RUDED ED THR RUDED ED THR RUDED ES SEME 0 PSI M ENER-/ 5 ASSEME 6 PSI M ENER-/ 5 ASSEME 6 PSI M ENER-/ 6 PSI M ENER-/ 5 ASSEME 6 PSI M ENER-/ 10N LL GUAI TION LL GUAI TION LL GUAI TION COM ED TO / 2.5 ROC EQUAL. MINER/ 4 ROCK UFACTI PRODI N INST/	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE ER CONCRETE ER CONCRETE ER CONCRETE INDUCT: 8-20 STRENGTH: 16 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS NDATION WALL M PANELS, 8MN 0) ATTACH EACH ROBUCT: R-22.5 APPROVED EG RATED ASSEM ND BLANKET M 0 MM RODUCT: R-24 I EQUAL. _Y WITH MANUI L BULLETINS, F DUCT CARTON	HALL COM N LUMBER FIRE TREAT VT. CONTACT 1 IS SHALL B COARD INSI INSULATIO D OF ACCE KNESS & R PRESSIVE D OF ACCE CRETE TOF ATION: FOL MATION: FOL MAT	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION OT 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. ACC COMPLIA INSTRUC COMPLIA PRODUCT INSTRUC
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL S: 6 MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 6: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU MM MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. TOM RAIL NOMINAL 177.8 MM V INUS 6 MM. TOM RAIL NOMINAL 177.8 MM V INUS 6 MM. TOM RAIL NOMINAL 177.8 MM V INUS 6 MM. TRE RAIL 209.6 MM PLUS OR M LLY BROKEN DOORS FOR EXTI	<ul> <li>PAINT EPOXY RE</li> <li>INSULATED GLAS TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER.</li> <li>1 OUTER LITI LOW-E CO</li> <li>2 INNER LITI</li> <li>9 ALUMINUM PANE FINISH TO MATCH SWING-TYPE ALUMINUM</li> <li>1 ALUMINUM-FRAM ALUMINUM PANE INCLUSION IN CU</li> <li>2 ENSURE STILES A DESIGNED FOR M COMBINATION W WELDS AND FILLI CONNECTIONS.</li> <li>3 DOOR THICKNES</li> <li>4 CONSTRUCT DOC DISTORTION, WA DEFECTS DETRIM APPEARANCE.</li> <li>5 FABRICATE INFILL LAMINATED TO 19</li> <li>6 INSTALL DOOR H .1 TYPE 1 INSULA</li> <li>1 ACC BISTORTION ALL</li> <li>2 DO OR</li> <li>3 TOI MIN</li> <li>4 BO OR</li> <li>4 CONSTRUCT DOC DISTORTION HERE</li> </ul>	.6	N G, S, S, DT ENT S, RS, RS, S F E E	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF W GUARDS. WITH A E ACE SCREW NAILING IS I EAVES AND I TO MATCH FING. SECUR LAY TO PRE AYMENT. MM STENERS MMENDATIO ED FASTEN G ONE RI MUM OF 8". TAL PANELS OF ONE RI MUM OF 8". TAL PANELS S NOT TO IN LENGTH NELS. ATCHING RC ID MAKE AS PER HAUST VEN MATCH ROU H SIDES RIE CAPE USING EATHING IS	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS CREW MUST I OF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU IMMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER AND UNDER COLOU USING EXPO LAP ON SIDE PANEL A MINI EDGE OF ME PANEL A MINI EDGE OF ME EN SCREWS ARE TO BE 2 ADJACENT P MATERIAL M . VENT PIPES TONS. ALL E CK METAL TO FILS ON BO METAL RIDE SURE ROOF I	AL SPRUCE X 4" HORI E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R INGS. NDER SHEE 3 100 MM M ACC AND I I CF WATEF ROOF PAN I G PANELS /E AN OVEL OF METAL ON BOTTOI STENERS IN TION OF W G OVER AL COMMENDA G FLAT STO E ATHING S INSTALL 12 CREWS. EN	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING I RSUNK IN WO 44" AND INSTA ABLE. 4" METAL ST, TARTER STR ETAL. 20SED FASTE UNDERLAY I ND LAP JOIN SLIP SHEET O G BETWEEN SC WITH ANCHA TO MANUFAC METAL ROOF IEET MUST H AND BOTTO FITTED FOAM EAVE LINE. FA RUN OF STRA METAL ROOF FITTED FOAM EAVE LINE. FA RUN OF STRA METAL ROOF FITTED FOAM EAVE LINE. FA RUN OF STRA METAL ROOF IGHT. VENT FLASH COOF PENETF AND MAKE ' EAMS IN DIRE TGHT.	INSTALL SHEATH SPACED RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL ROOF M USE EX INCLUD PLACE BONDIN SECURI MINIMU INSTALL SPACED INSTALL SPACED INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL ALONG EVERY DIMPLE STAGGI FLASH f PANELS FORM S WATER INSTALL MANUF, TO BE F COLOUI ROOF C LINE ON COLOUI	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13		RS, VOOL DING N )	TERIOF 3. WALLS ATE OMM ANCHC DN. BRE: TC BRE: TC BY D S702. 7 ROCK A, INCL ALLATI NS, AN MAL 'IPES,	ATED. ATED.	TE, OR TE, OR TREA TREA UT DR/ TYREN FOUND YISOC' YISOC' BONDE 3 CON BRE IN 3 CON BRE IN 5 CON BRE IN 5 TO C. NSULA NINST INSULA NINST JITY OF SPACE ICAL BO	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 33 AND F BLIES IIN AIR, POL BLIES IIN RD RD IIN RD RD RD RD RD RD RD RD RD RD RD RD RD	D MOUI RY OR ( PRESE ED THR RUDED THR RUDED ASSEMI 0 PSI M ENER-4 5 ASSEMI 6 PSI M LL GUAI TION LLS MM CON CON ED TO A 2.5 ROL 2.5 ROL 2.	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE ER CONCRETE ER CONCRETE INDUCTION WALLS VALUE PER AS STRENGTH: 16 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS, 8MN 0) ATTACH EACH ROADION STANDARD FOF EMBLIES: BATT COMM REQUIREL RODUCT: R-22.3 APPROVED EG RATED ASSEM ND BLANKET M MM RODUCT: R-24 I EQUAL. Y WITH MANUI L BULLETINS, F DUCT CARTON TION TO MAINT D BUILDING ELE CLOSELY ARO	SHALL COM N LUMBER FIRE TREAT VT. CONTACT 1 IS SHALL B COARD INSI INSULATIO D OF ACCE XTION: UNE KNESS & R PRESSIVE D OF ACCE CRETE TOF XTION: FOU IM X 1220M LATION FOU IM X 1220M LATION FOU IM X 1220M LATION (R' HANICALLY ATE ANCHO STO2.1997, XTE ANCHO STO2.19	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION DT 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. ACC COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA a. INST PRO b. FIT I
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 5: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRUCHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU M MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. RAIL NOMINAL 98.4 MM WIDE F IS 6 MM. TOM RAIL NOMINAL 177.8 MM V INUS 6 MM. RR RAIL NOMINAL 177.8 MM V INUS 6 MM. RR RAIL 209.6 MM PLUS OR M LY BROKEN DOORS FOR EXTI	<ul> <li>PAINT EPOXY RE</li> <li>INSULATED GLAS</li> <li>TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER.</li> <li>1 OUTER LIT LOW-E CO</li> <li>2 INNER LITI</li> <li>9 ALUMINUM PANE FINISH TO MATCH</li> <li>SWING-TYPE ALUMINUM</li> <li>1 ALUMINUM-FRAM ALUMINUM PANE INCLUSION IN CU</li> <li>2 ENSURE STILES A DESIGNED FOR M COMBINATION W</li> <li>2 ENSURE STILES A DESIGNED FOR M COMBINATION W</li> <li>2 ENSURE STILES A DESIGNED FOR M COMBINATION W</li> <li>3 DOOR THICKNES</li> <li>4 CONSTRUCT DOC DISTORTION, WA' DEFECTS DETRIN APPEARANCE.</li> <li>5 FABRICATE INFILL LAMINATED TO 19</li> <li>6 INSTALL DOOR HA</li> <li>.1 ACCEPTABLE PR</li> <li>.1 TYPE 1 INSULA</li> <li>.1 ACCEPTABLE PR</li> <li>.3 TOI MIN</li> <li>.4 BO' OR</li> <li>.5 CEI</li> <li>.8 PROVIDE THERM.</li> <li>HARDWARE:</li> <li>.1 AL-1 (DOOR 208A</li> <li>.1 (2) ALUMIC</li> </ul>	.6	N S, S, DT E IN ENT S, S, S, S, S, S, S, S, S, S, S, S, S,	SPACED 24" CE STRAPPII RUN OF WIDS ALONG DWN VALLE RUN OF WITH A E CAVES AND : CE SCREW NAILING IS I CAVES AND : CE SCREW NAILING IS I CAVES AND : CAVES AND : CAV	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND E BE A DOUBLE NING OF SNC DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU IMMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER COV. ELS USING FA RECO USING EXPO? CALLED ON SIDE PANEL A MINI EDGE OF ME STALLED ON SIDE PANEL A MINI EDGE OF ME STALLED ON SIDE PANEL A MINI EDGE OF ME STALLED ON SIDE CALLER OF HE MATERIAL M UENT PIPES CICONS. ALL E CK METAL RIDE CK METAL RIDE SURE ROOF H V FOR VENTIL NOW GUARDES CAR DE SURE COST	AL SPRUCE " X 4" HORI, E UP ROOF NY PROTRI /S ARE TO FOR FASTI BING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R. INGS. IDER SHEE 100 MM M ER ASPHALA AGE AND L IOF WATEF ROOF PAN URER'S IG PANELS /G ANOVEL OF MATEF ROOF PAN URER'S IG PANELS /G ANOVEL OF WATEF ROOF PAN URER'S IG PANELS /G ANOVEL OF WATEF ROOF PAN URER'S IG SCREW: E SEAMS IN TIONS WITH ATERTIGHT TION OF W. G OVER ALL COMMENDA G FLAT STO EATHING S INSTALL 12 CREWS. EN E TO ALLO L METAL S VERY 18" A	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLO AND 3RD RC ING TO ALLO STRAPPING I SR SINK HEAD SINK HEAD SISUNK HEAD ABLE. 4" METAL ST. STARTER STA ETAL. 20SED FASTE UNDERLAY IND LAP JOIN SLIP SHEET O' G BETWENA UND LAP JOIN SLIP SHEET O' G BETWENA SLIP SHEET O' G BETWENA COSED FASTE WITH ANUFAC METAL ROOF HET MUST H P AND BOTTO FITTED FOAN EAVE LINE. FA RUN OF STRA METAL ROOF FITTED FOAN EAVE LINE. FA RUN OF STRA METAL ROOF FITTED FOAN EAVE LINE. FA RUN OF STRA METAL ROOF STRANSVER COF PENETF AND MAKE COF PENETF AND MAKE SLINSTALL E METAL ROOF SLINSTALL E METAL ROOF SLINSTAL SLINSTALL E METAL ROOF SLINSTAL	INSTALL SPACED RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL ROOF M USE EX INSTALL BONDIN SECURI MINIMU INSTALL SPACED SPACED INSTALL SPACED INSTALL SPACED INSTALL SPACED SPACED INSTALL SPACED SPACED INSTALL SPACED SPACED INSTALL SPACED SPA	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13 .14		RS, VOOL DING N Σ	TERIOF 3. WALLS ATE OMM ANCHC ON. BRE: TC BY D S702. / ROCK A, INCL ALLATI NS, AN MAL PIPES, ROUGH DEVICE	ATED. ATED.	TE, OR TE, OR TE, OR TREA TYREN TYREN FOUND YISOC YISOC BONDE 3 CON BRE IN 3 CON BRE IN 5 CON BRE IN 5 CON TINE TALOGU NINST ITY OF SPACE ICAL BC R PASS O SPACE	CONCRE RVATIVE ROUGHO POLYS <sup>33</sup> AND F BLIES IIN AIR, POL BLIES IIN RD CRETE EL WITH RD CRETE EL WITH RADE. ELANKE ACHIEVE S BETWE AL FIBRE WOOL II URER'S UCT CAT ALLATIO CONTINU TS AND : ELECTRI CTS IN O FIT INTO FROM HE ES	D MOUI RY OR ( PRESE ED THR RUDED E SLAE ASSEMI 0 PSI M E SLAE ASSEMI 0 PSI M E SLAE ASSEMI 0 PSI M L GUAI 10N LL GUAI 10N 10N 10N 10N 10N 10N 10N 10N	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATED PTANCE: EXTRI ER CONCRETE VALUE PER AS STRENGTH: 30 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION MATACH EACH RODUCT: R-22.1 APPROVED EG RATED ASSEM ND BLANKET M MM RODUCT: R-24 I EQUAL. Y WITH MANUI L BULLETINS, F DUCT CARTON STION TO MAINT D BUILDING ELE CLOSELY ARO S AND OTHER C MESS INSULATION S AND OTHER C MESS INSULATION S AND OTHER C	HALL COM N LUMBER FIRE TREA' VT. CONTACT ' IS SHALL B COARD INSI INSULATIO D OF ACCE TO OF ACCE D OF ACCE CRETE TO ATION: EXT KNESS & R PRESSIVE D OF ACCE CRETE TO ATION: FOU IM X 1220M LATION (R' HANICALL'Y ATE ANCHO STO2-1997, WALL ASS STO2. E: 1. KNESS: 15: EPTABLE P KWOOL OR WALL FIRE RS: BATTA KNESS: 15: EPTABLE P KWOOL OR WALL FIRE RS: BATTA KNESS: 15: EPTABLE P KWOOL OR WALL FIRE RS: BATTA IONS, PRO ETS. TION ALL INSULA TECHNICA IONS, PRO ETS. TION ALL INSULATION. IOT COMPF 2 INSULATION.	DIMENSICE PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC c. 610M INSL d. MEC C. 610M INSL d. MEC CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA a. INST DATA SHE INSTALLA a. INST DATA SHE INSTALLA a. INST DATA SHE INSL COMPLIA PRODUCT
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL M CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 5: 25 MM SHOP FABRICATED P. DOORS. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRUCHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU M MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. RAIL NOMINAL 98.4 MM WIDE F IS 6 MM. TOM RAIL NOMINAL 177.8 MM V INUS 6 MM. RRIL NOMINAL 177.8 MM V INUS 6 MM. RRIL NOMINAL 177.8 MM V INUS 6 MM. RRIL NOMINAL 177.8 MM V INUS 6 MM. TRE RAIL 209.6 MM PLUS OR M LLY BROKEN DOORS FOR EXTI	<ul> <li>PAINT EPOXY RE</li> <li>8 INSULATED GLAS</li> <li>TO CAN/CGSB-12</li> <li>SEALED, ARGON</li> <li>WITH LOW COND</li> <li>EDGE SPACER.</li> <li>.1 OUTER LIT</li> <li>.9 ALUMINUM PANE</li> <li>FINISH TO MATCH</li> <li>SWING-TYPE ALUMINUM</li> <li>.1 ALUMINUM-FRAM</li> <li>ALUMINUM-FRAM</li> <li>ADOR THICKNES</li> <li>.3 DOOR THICKNES</li> <li>.4 CONSTRUCT DOO</li> <li>DISTORTION, WA</li> <li>DEFECTS DETRIM</li> <li>APPEARANCE.</li> <li>.5 FABRICATE INFILL</li> <li>AMINATED TO 19</li> <li>.6 INSTALL DOOR HI</li> <li>.7 ACCEPTABLE PR</li> <li>.1 TYPE 1 INSULA</li> <li>.1 ACC</li> <li>.2 DO</li> <li>.3 TOI</li> <li>.4 BO</li> <li>OR</li> <li>.5 CEI</li> <li>.8 PROVIDE THERM</li> <li>HARDWARE:</li> <li>.1 AL-1 (DOOR 208A</li> <li>.1 (2) ALUMIC</li> <li>HINGES.</li> <li>.2 (2) SETS W</li> <li>BOTTOMS</li> <li>.3 (1) THRES</li> </ul>	.6	N G, S, S, DT E IN ENT S, RS, S, RS, S F E E UT KE	SPACED 24" CE STRAPPII RUN OF WIDS ALONG DWN VALLE RUN OF WITH A E ACE SCREW NAILING IS I CAVES AND : R TO MATCH FING. SECUI LAY TO PRE AYMENT. MM STENERS IMENDATIO ED FASTEN MM STENERS IMENDATIO ED FASTEN MM STENERS IMENDATIO ED FASTEN MM STENERS IMENDATIO ED FASTEN MM STENERS IN LENGTH IN LENGTH IN LENGTH IN LES. ATCHING RC LO MAKE AS PER HAUST VEN MATCH ROU H SIDES RIE CAPE USING N EVERY LY STAGGE TING THE 15 , PIPES, ETC	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU IT METAL ROC NIMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER FLT UNDEF AND UNDER CON SING EXPO3 FLOW. ELS USING FA RECO USING EXPO3 FLOW. ELS USING FA RECO TO SECON FLOW. ELS USING FA RECO USING EXPO3 FLOW. ELS USING FLOW. ELS USING FLOW. ELS USING FLOW. ELS USING FLOW. ELS USING FLOW.	AL SPRUCE " X 4" HORI, E UP ROOF NY PROTRI /S ARE TO FOR FASTI BING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R. INGS. NDER SHEE 3 100 MM M ER ASPHAL AGE AND L I OF WATEF ROOF PAN URER'S NG PANELS /E AN OVEI OF METAL OF WATEF ROOF PAN URER'S NG PANELS /E AN OVEI OF METAL DN BOTTOI TENERS IN TIONS WITH ATERTIGHT TION OF W G OVER AL COMMENDA G FLAT STO EATHING S E TO ALLO L METAL S ZONTALLY PSTRAPPI THE EAVE. DUND ANY 1 2007 COLC	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING I RSUNK HEAD ERSUNK HEAD TABLE. 4" METAL ST. STARTER STR ETAL. 20SED FASTE UNDERLAY I ND LAP JOIN G BETWEEN UND LAP JOIN G BETWEEN SHEET MUST IND LAP JOIN G BETWEEN G BETWEEN TO MANUFAC METAL ROOF FITTED FOAN EAVE LINE. FA UN OF STRA METAL ROOF FITTED FOAN EAVE LINE. FA RUN OF STRA METAL ROOF STRANSVER COF PENETF AND MAKE COF PENETF AND MAKE COF STRA METAL ROOF R TRANSVER COF PENETF AND MAKE COF PENETF AND MAKE AND MAKE AND MAKE AND MAKE AND MAKE AND AND AND AND AND AND AND AND AND AND	INSTALL SHEATH SPACED RAKES. THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METALS ROOF M USE EX INCLUD PLACE / APPLY S BONDIN SECURI MINIMU INSTALL SPACED INSTALL SPACED INSTALL SPACED INSTALL SACED INSTALL SPACED INSTALL SACED INSTALL SPACED INSTALL SPACED INSTALL SPACED INSTALL ALONG EVERY DIMPLE STAGGI FLASH F PANELS FORM S WATER INSTALL MANUF/ TO BE F COLOUI ROOF C LINE ON COLOUI ON EAC PLACE. SNOW C	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13 .14 .14 .15		VOOL DING N D	TERIOF S. WALLS ATE OMM ANCHC ON. BRE: TC BY D S702. ( ROCK A, INCL ALLATI )NS, AN ALL 'IPES, IROUGH DEVICE CTED A OF ALL	ATED. ATED.	TE, OR TE, OR TE, OR TE, OR TREA TYREN: OUND YISOC' BONDE 3 CON 3	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 35 AND F BLIES IIN AIR, POL BLIES IIN RD IIN RD ICRETE EL WITH RADE. EL WITH RADE. EL WITH RADE. EL WITH RADE. S BETWE AL FIBRE WOOL II URER'S UCT CAT ALLATIO CONTINU TS AND : ELECTRI CONTINU TS AND : ELECTRI CONTINU	D MOUR RY OR (C PRESE ED THR RUDED THR SSEM SSEM CONTRACTION CONTR	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE VALUE PER AS STRENGTH: 30 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALLS VALUE PER AS STRENGTH: 30 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 30 PTANCE: WALLS MM REQUIRED RODUCT: R-22.1 APPROVED EC RATED ASSEM ND BLANKET M MM RODUCT: R-24 I EQUAL. V WITH MANUI L BULLETINS, P DUCT CARTON SAND OTHER C SED LIGHT FIX SE INSULATION CONSULTANT. METER WALLS: S	SHALL COM N LUMBER FIRE TREA' VT. CONTACT V IS SHALL B CONTACT V IS SHALL B COARD INSI INSULATIO D OF ACCE TO OF ACCE D OF ACCE CRETE TO ATION: EXT KNESS & R PRESSIVE D OF ACCE CRETE TO ATION: FOU IM X 1220M LATION FOU IM X 1220M LATION (R' HANICALL'Y ATE ANCHO STO2-1997, WALL ASS STO2. E: 1. KNESS: 15/ EPTABLE P KWOOL OR WALL FIRE RS: BATTA KNESS: 15/ EPTABLE P KWOOL OR WALL FIRE RS: BATTA IONS, PRO ETS. TION ALL INSULATION IOT COMPF P INSULATION. IOT COMPF P INSULATION.	DIMENSICE PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC c. 610M INSL d. MEC C. 610M INSL d. MEC CAN/ULC EXTERION CAN/ULC EXTERION CAN/ULC EXTERION CAN/ULC EXTERION CAN/ULC EXTERION CAN/ULC EXTERION CAN/ULC EXTERION COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA a. INST UC DATA SHE INSTALLA a. INST DUC INSTRUC COMPLIA PRODUCT INSTRUC COMPLIA PRODUC INSTRUC COMPLIA PRODUC INSTRUC COMPLIA PRODUC INSTRUC COMPLIA PRODUC INSTRUC COMPLIA PRODUC INSTRUC INSTRUC COMPLIA PRODUC INSTRUC COMPLIA PRODUC IN
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL MO SURFACE TWO. 6 MM CLEAR TEMPERED GLAS S: 25 MM SHOP FABRICATED P. DOORS. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRUCHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION T WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH ENTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU MM MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. RAIL NOMINAL 98.4 MM WIDE F IS 6 MM. TOM RAIL NOMINAL 177.8 MM V INUS 6 MM. RRIL NOMINAL 177.8 MM V INUS 6 MM. RR RAIL NOMINAL 177.8 MM V INUS 6 MM. RR RAIL NOMINAL 177.8 MM V INUS 6 MM. TRE RAIL 209.6 MM PLUS OR M LLY BROKEN DOORS FOR EXTI PARTERSTRIPPING AND DOOR OLD, KN CROWDER CT-45 IATHERSTRIPPING AND DOOR OLD, KN CROWDER CT-45 IATIC 1790 RIM TYPE EXIT DEV AWNEER CO-9, 26D S, LCN 1460, 26D	<ul> <li>PAINT EPOXY RE</li> <li>BINSULATED GLAS</li> <li>TO CAN/CGSB-12</li> <li>SEALED, ARGON</li> <li>WITH LOW COND</li> <li>EDGE SPACER.</li> <li>.1 OUTER LIT</li> <li>.9 ALUMINUM PANE</li> <li>FINISH TO MATCH</li> <li>SWING-TYPE ALUMINUM</li> <li>.1 ALUMINUM-FRAM</li> <li>ALUMINUM-FRAM</li> <li>AUMINATED TO MATCH</li> <li>SOMBINATION W</li> <li>WELDS AND FILLI</li> <li>CONSTRUCT DOC</li> <li>DISTORTION, WA</li> <li>DEFECTS DETRIN</li> <li>APPEARANCE.</li> <li>.5 FABRICATE INFILL</li> <li>AMINATED TO 19</li> <li>.6 INSTALL DOOR HA</li> <li>.1 ACCEPTABLE PR</li> <li>.1 TYPE 1 INSULA</li> <li>.1 ACCEPTABLE PR</li> <li>.1 TYPE 1 INSULA</li> <li>.2 DO</li> <li>.3 TOI</li> <li>.4 BO</li> <li>.5 CEI</li> <li>.8 PROVIDE THERM</li> <li>HARDWARE:</li> <li>.1 AL-1 (DOOR 208A</li> <li>.1 (2) ALUMIC</li> <li>HINGES.</li> <li>.2 (2) SETS W</li> <li>BOTTOMS</li> <li>.3 (1) THRES</li> <li>.4 (2) DOR-O</li> <li>.5 (2) PULLS,</li> <li>.6 (2) CLOSE</li> <li>ALUMINUM FRAME:</li> </ul>	.6 .7	N 5, 5, 5, 5, 7, 7, 8, 8, 8, 8, 8, 8, 8, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,	SPACED 24" CE STRAPPII RUN OF WIDS ALONG DWN VALLE RUN OF WITH A E ACE SCREW NAILING IS I CAVES AND : R TO MATCH FING. SECUI LAY TO PRE AYMENT. MM STENERS IMENDATIO ED FASTEN S OF ONE RI MUM OF 8". TAL PANELS MENDATIO ED FASTEN S OF ONE RI MUM OF 8". TAL PANELS IN LENGTH IN LENGTH IN LENGTH IN LELS. ATCHING RC LO MAKE AS PER HAUST VEN MATCH ROU H SIDES RIE CAPE USING EATHING IS ATION TO T. USING N EVERY LY STAGGE TING THE 15 , PIPES, ETC	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU IT METAL ROC NIMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER COM USING EXPO3 FLOW. ELS USING FA RECO USING EXPO3 FLOW. ELS USING FA SUS FLOW. ELS USING FA FLOW. ELS U	AL SPRUCE X 4" HORI; E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R. INGS. ING. INGS. ING. INGS. ING.	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLOV STRAPPING 1 ER SINK HEAD ER SINK HEAD ER SINK HEAD TAREAT ABLE. 4" METAL ST. STARTER STA ETAL. 20SED FASTE UNDERLAY 1 ND LAP JOIN SLIP SHEET O' G BETWEELAY 1 ND LAP JOIN SCIENT SHEET O' SCIENT SHEET O' SLIP SHEET O' G BETWEELAY 1 ND LAP JOIN SLIP SHEET O' G BETWEELOY SLIP SHEET O' SLIP SHEET O' G BETWEELOY SLIP SHEET O' SLIP SHEET O' G BETWEELOY SLIP SHEET O' SLIP SH	INSTALL SHEATH SPACED RAKES, THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METALS ROOF M USE EX INCLUD PLACE / APPLY S BONDIN SECURI MINIMU INSTALL SPACED INSTALL EACH S AND TO INSTALL ALONG EVERY DIMPLE STAGGI FLASH I PANELS FORM S WATER INSTALL MANUF, TO BE F COLOUI ROOF C LINE ON COLOUI ON EAC PLACE. SNOW C	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13 .14 .14 .15		RS, VOOL IDING N ) S ID IE LS ND	TERIOF S. WALLS ATE OMM ANCHC ON. BRE: TC BY D S702. ( ROCK A, INCL ALLATI )NS, AN MAL 'IPES, IROUGH DEVICE CTED A OF ALL ED ON T ING WA DORS (	ATED. AT	TE, OR TE, OR TE, OR TE, OR TREA TYREN: OUND YISOC' BONDE 3 CON BRE IN: CON BRE IN: TO C. NSULA' WRITTE ALOGI N INST ITY OF SPACE ICAL BC R PASS O SPACE STUD C ALLS ID DES TH TWEEN	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 35 AND F BLIES IIN AIR, POL BLIES IIN RD IIN RD ICRETE EL WITH RADE. ERAL FIE BLANKE ACHIEVE CKWOOL II URER'S UCT CAT ALLATIO CONTINU TS AND : ELECTRI CONTINU TS AND : ELECTRI	D MOUR RY OR (C PRESE ED THR RUDED THR RUDED THR RUDED THR S SSEME 0 PSI M ENER-/ S SSEME 0 PSI M L GUAI TION LL GUAI TION CON TO 75 MM F S WITH S	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE VALUE PER AS STRENGTH: 30 PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALL M PANELS, 8MN 0) ATTACH EACH RODUCT: R-22.1 APPROVED EC RATED ASSEM ND BLANKET M NM RODUCT: R-22.1 APPROVED EC RATED ASSEM ND BLANKET M D BLANK	HALL COM N LUMBER FIRE TREA' VT. CONTACT ' IS SHALL B CONTACT ' IS SHALL B CONTACT ' IS SHALL B CONTACT ' IS SHALL B CONTACT ' INSULATIO D OF ACCE PRESSIVE D OF ACCE D OF ACCE D OF ACCE D OF ACCE PRESSIVE D OF ACCE D OF ACCE CRETE TO ATION: EXT KNESS & R PRESSIVE D OF ACCE CRETE TO ATION: FOU IM X 1220M LATION FOU IM X 1220M LATION FOU IM X 1220M LATION FOU IM X 1220M LATION (R' ATE ANCHO CRETE TO ATION: FOU IM X 1220M LATION (R' ATE ANCHO CRETE TO ATION: FOU IM X 1220M LATION (R' ATE ANCHO CRETE TO ATE ANCHO CRETE TO FACCE CRETE TO ATION (R' ATE ANCHO CRETE TO ATE ANCHO CRETE TO IN X 1220M LATION, FOU IN X 1220M LATION, POU IN X 1220M LATION, POU IN X 1220M LATION, POU IN X 1220M IN X 120	DIMENSICE PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. COM STANDAR a. LOC c. 610M INSL d. MEC C. 610M INSL d. MEC CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR CAN/ULC EXTERIOR CORRIDO a. TYP b. THIC c. ACC NOT COMPLIA PRODUCCI INSTRUC COMPLIA PRODUCCI INSTRUC DATA SHE INSTALLA a. INST COMPLIA PRODUCCI INSTRUC DATA SHE INSTALLA a. INST COMPLIA PRODUCCI INSTRUC DATA SHE INSTALLA a. INST COMPLIA PRODUCCI INSU COMPLIA PRODUCCI INSL C. DO N d. KEE SUC C. DO N d. KEE SUC C. DO N DUC INSL C. DO N DUC
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL MM CLEAR TEMPERED GLAS 6 MM CLEAR TEMPERED GLAS 5: 25 MM SHOP FABRICATED P. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS H SIGMA DEEP PENETRATION WELDS AT ALL STILE/RAIL 44 MM. RS SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU M MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO IICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W IINUS 6 MM. RAIL NOMINAL 98.4 MM WIDE F IS 6 MM. TOM RAIL NOMINAL 177.8 MM V IINUS 6 MM. IRE RAIL 209.6 MM PLUS OR M LY BROKEN DOORS FOR EXTI PARERS TRIPPING AND DOOR DLD, KN CROWDER CT-45 IATHERSTRIPPING AND DOOR DLD, KN CROWDER	<ul> <li>PAINT EPOXY RE</li> <li>8 INSULATED GLAS TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER.</li> <li>.1 OUTER LITI LOW-E CO</li> <li>.2 INNER LITI</li> <li>.9 ALUMINUM PANE FINISH TO MATCH SWING-TYPE ALUMINUM</li> <li>.1 ALUMINUM-FRAM ALUMINUM PANE INCLUSION IN CU</li> <li>.2 ENSURE STILES / DESIGNED FOR COMBINATION W/ WELDS AND FILL CONNECTIONS.</li> <li>.3 DOOR THICKNES</li> <li>.4 CONSTRUCT DOC DISTORTION, WA DEFECTS DETRIM APPEARANCE.</li> <li>.5 FABRICATE INFILL LAMINATED TO 19</li> <li>.6 INSTALL DOOR H.</li> <li>.7 ACCEPTABLE PR</li> <li>.1 TYPE 1 INSULA</li> <li>.1 ACC ALUMINUM</li> <li>.4 BOO OR</li> <li>.3 TOI MIN</li> <li>.4 BOO OR</li> <li>.3 CI TYPE 1 INSULA</li> <li>.1 AL-1 (DOOR 208A A1 (2) ALUMIO HINGES.</li> <li>.2 (2) SETS W BOTTOMS</li> <li>.3 (1) THRES</li> <li>.4 (2) DOR-O.</li> <li>.5 (2) PULLS, .6 (2) CLOSE</li> <li>ALUMINUM FRAME:</li> <li>.1 CONSTRUCT THE EXTERIOR FRAMI</li> <li>.2 PROVIDE FRAME</li> <li>.3 ACCEPTABLE PR</li> <li>.1 CONSTRUCT THE EXTERIOR FRAMI</li> <li>.2 PROVIDE FRAME</li> <li>.3 ACCEPTABLE PR</li> </ul>	.6	N, S,	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF A GUARDS. WITH A E ACE SCREW NAILING IS I TO MATCH FING. SECUE LAY TO PRE AYMENT. MM STENERS MMENDATIO ED FASTEN GOF ONE RI MUM OF 8". TAL PANELS OF ONE RI MUM OF 8". TAL PANELS. ATCHING RC ID MAKE AS PER HAUST VEN MATCH ROU H SIDES RIE CAPE USING EATHING IS ATION TO T, USING N EVERY LY STAGGE TING THE 13 , PIPES, ETC	STRAPPING, ONTAL SPRU AND FILL IN E SIONS AND D BE A DOUBLE NING OF SNC DOD SCREWS OF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU ING EXPOSITION FELT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER CANDING FA SUBJACENT P MATERIAL MINI EDGE OF ME PANEL A MINI EDGE OF ME PANEL A MINI EDGE OF ME TALLED ON SIDE PANEL A MINI EDGE OF ME TALLED ON SARE TO BE 2 ADJACENT P MATERIAL M . VENT PIPES TONS. ALL E CK METAL RIDE SURE ROOF H V FOR VENTII NOW GUARDS ART BETWEE IND VENT COM ROTRUSIONS JR.	AL SPRUCE X 4" HORI E UP ROOF NY PROTRI /S ARE TO FOR FASTI SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R. INGS. NDER SHEE 3 100 MM M ACC PAN INGS. INGS. NDER SHEE 3 100 MM M ACC PAN INGS. INGS. INGS. NDER SHEE 3 100 MM M ACC PAN INGS. ING AN OVEL OF WATER ROOF PAN IG PANELS /E AN OVEL OF METAL ON BOTTOI ATERTIGHT TION OF W G OVER AL COMMENDA G FLAT STO E SEAMS IN ATERTIGHT TION OF W G OVER AL COMMENDA G FLAT STO L METAL S VERY 18" A ZONTALLY INGOF COLO	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLO' STRAPPING 1 ER SINK HEAD STRAPPING 1 ER SINK HEAD STRAPTING 1 POSED FASTE UNDERLAY 1 ND LAP JOIN' SUP SHEET O' G BETWEEN 3 E UNDERLAY 1 ND LAP JOIN' SUP SHEET O' G BETWEEN 3 E WITH ANCHC METAL ROOF HEET MUST H PAND BOTTO FITTED FOAM EAVE LINE. F/ AND MAKE 1 F TRANSVER COF PENETF AND MAKE 1 F TRANSVER F TRANSVER F TRANSVER F TRANSVER F TRANSVER F TRANSVER	INSTALL SPACED RAKES THE 2NI STRAPF INSTALL COUNTI COUNTI EVERY ACCEP INSTALL METAL BONDIN SECURI MINIMU INSTALL SPACED INSTALL EACH S AND TO INSTALL ALONG EVERY DIMPLE STAGGI FLASH F PANELS FORM S WATER INSTALL MANUF/ TO BE F COLOUI ROOF C LINE ON COLOUI SECONI PLACE. SNOW C	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13 .14 .14 .15		RS, VOOOL IDING IN ID IE ILS ND CFI) D	TERIOF S. WALLS ATE OMM ANCHC ON. BRE: TC BY D STO2. (ROCK A, INCL ALLATI NNS, AN MAL PIPES, IROUGH DEVICE CTED A OF ALL ED ON T ING WA IDORS / ALLATION IATEO	ATED. ATED. AWING EDTO CYANUF EDTO CYANUF EDTO INCRETE ISULAT ISULAT ISUL	TE, OR TE, OR TE, OR TE, OR TREA TYREN TYR	CONCRE RVATIVE CONCRE RVATIVE CONCRE SOUGHO POLYS' 3S AND F BLIES IIN AIR, POL BLIES IIN RD VCRETE EL WITH BLANKE ACHIEVE CKWOOL II URER'S UCT CAT ALLATIO CONTINU TS AND - S BETWE ALLATIO CONTINU TS AND - S III INT FROM HE S. IL IT HAS ALLATIO CONTINU TS AND - S ALLATIO CONTINU TS AND - S ALLATION CONTINU TS AND - S ALLATION	D MOUI RY OR ( PRESE ED THR RUDED THR RUDED THR ES SLAE ASSEM 0 PSI M ENER-/ ASSEM 0 PSI M ENER-/ ASSEM 1 GUAI 1 GUAI	ALL LUMBER <sup>1</sup> TED PLYWOOD WITH MASONRY E PRESSURE PI JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE CONCRETE ER CONCRETE INDUCT: EXTRI PTANCE: IKO EI ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS PTANCE: WALL PED INSULATION STRENGTH: 16 PTANCE: WALL PED INSULATION STRENGTH: 16 PTANCE: WALL PED INSULATION STRENGTH: 16 PTANCE: WALL PED INSULATION STRENGTH: 16 PTANCE: WALLS STANDARD FOR EMBLIES: BATT POLICT: R-22.1 APPROVED EG RATED ASSEM ND BLANKET M O MM RODUCT: R-24 I EQUAL. Y WITH MANUI L BULLETINS, F DUCT CARTON SSED LIGHT FIX SEINSULATION CONSULT ANT. METER WALLS: .S. RATED WALLS: SEINSULATION CONSULT ANT. METER WALLS: .S. ATADDARD FOR S. O CELLULOSE FIBF	SHALL COM N LUMBER FIRE TREAT VT. CONTACT 1 IS SHALL B CONTACT 1 IS SHALL B COARD INSI INSULATIO D OF ACCE TRESSIVE D OF ACCE TRESSIVE D OF ACCE TRESSIVE D OF ACCE CRETE TOF ATION: FOU IM X 1220M LATION FOU IM X 1220M LA	DIMENSICE PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC C. G. ACC OR CAN/ULC EXTERIOR CAN/ULC CAN/ULC EXTERIOR CAN/ULC CAN/ULC EXTERIOR CAN/ULC C. ACC COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA a. INST INSTALLA COMPLIA PRODUCT DATA SHE INSTALLA a. INST INSTALLA C. DO N C. DO N C. DO N C. DO N C. SCO DATA SHE INSTALLA C. DO N C. SCO DATA SHE INSTALLA C. DO N C. DO N C. DO N C. DO N C. DO N C. SCO DATA SHE INSTALLA C. DO N C. DO N C. DO N C. SCO C. DO N C. SCO C. DO N C. SCO C. SCO C. SCO C. DO N C. SCO C. DO N C. SCO C. S
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI , TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL S: 6 MM CLEAR TEMPERED GLAS S: 25 MM SHOP FABRICATED P. DOORS. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS S SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU M MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. RAIL NOMINAL 177.8 MM W INUS 6 MM. COM RAIL NOMINAL 177.8 MM W INUS 6 MM. RAIL NOMINAL 1000000000000000000000000000000000000	.1       PAINT EPOXY RE         .8       INSULATED GLAS         TO CAN/CGSB-12       SEALED, ARGON         WITH LOW COND       EDGE SPACER.         .1       OUTER LITI         .9       ALUMINUM PANE         FINISH TO MATCH         SWING-TYPE ALUMINUM         .1       ALUMINUM-FRAM         ALUMINUM PANE         INCLUSION IN CU         .2       ENSURE STILES /         DESIGNED FOR M         COMBINATION W         WELDS AND FILL         CONSTRUCT DOC         DISTORTION, WA         DEFECTS DETRIM         APPEARANCE         .3       DOOR THICKNES         .4       CONSTRUCT DOC         DISTORTION, WA         DEFECTS DETRIM         .4       MINATED TO 19         .6       INSTALL DOOR HA         .7       ACCEPTABLE PR         .1       MCCONSTRUCT THE	.6 .7 .8	N, S,	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF A GUARDS. WITH A E ACE SCREW NAILING IS I TO MATCH FING. SECUE LAY TO PRE AYMENT. MM STENERS MMENDATIO ED FASTEN ED FASTEN ED FASTEN ED FASTEN S FOR RI MUM OF 8". TAL PANELS HE RIBS AT AUM OF 8". TAL PANELS HE RIBS AT IN LENGTH IN LENGTH IN LENGTH NATCH ROU IN SIDES RIE CAPE USING EATHING IS ATION TO T. USING N EVERY LY STAGGE TING THE 15 , PIPES, ETC	STRAPPING, ONTAL SPRU SIONS AND D BE A DOUBLE SIONS AND D BE A DOUBLE NING OF SNO DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU ING EXPLOSE FILT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER STALLED ON TENSCREWS ARE TO BE 2 ADJACENT P MATERIAL MINI EDGE OF ME TALLED ON TER-FLOW A . VENT PIPES TONS. ALL E CK METAL RIDE SURE ROOF H V FOR VENTIL VOW GUARDS VART BETWEE IND VERTICAL IG NOT COUM	AL SPRUCE X 4" HORI E UP ROOF NY PROTRI /S ARE TO FOR FAST SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R INGS. UDER SHEE 3 100 MM M ER ASPHAL GET METAL AGE AND L OF WATEF ROOF PAN URER'S WG PANELS /E AN OVEL OF METAL ON BOTTOI D'ING. TIGH G. SCREWS E SEAMS IN TIONS WITI ATERTIGHT TION OF W G OVER AL COMMENDA G FLAT STO E STALL 12 CREWS. EN E TO ALLO L METAL S VERY 18" A ZONTALLY OF STRAPPI COOF COLO	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLO' STRAPPING I RSUNK HEAD RSUNK IN WO 24" AND INSTA ABLE. 4" METAL ST. 5TARTER STR ETAL. POSED FASTE UNDERLAY I ND LAP JOIN' G BETWEEN G G CON DENTO FITTED FOAM EAVE LINE. F AND BOTTO FITTED FOAM EAVE LINE. F AND MAKE ' CONF PENETF AND MAKE ' EAMS IN DIRE GGT. VENT FLASH G COM FENETS CONF PENETS AP: INSTALL E GUARDS: INST RED SCREWS O RIB IN A HOOS N UP 2 ROWS N UP 2 ROWS N G CAULK AI NG TO MATCH	INSTALL SHEATH SPACED RAKES THE 2NI STRAPF INSTALL COUNTI EVERY ACCEP INSTALL METAL ROOF M USE EX INCLUD PLACE APPLY S BONDIN SECURI MINIMU INSTALL SPACED INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL EACH S AND TO INSTALL CAUSE FLASH F PANELS FORM S WATER INSTALL MANUF/ TO BE F COLOUI ON EAC PLACE. SNOW C COLOUI SECONI PATTER STARTE	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13 .14 .14 .15		RS, VOOL IDING IND S ID HELS ND CFI) C	TERIOF S. WALLS ATE OMM ANCHC ON. BRE: TI BY D S702. Y ROCK A, INCL ALLATI DEVICE CTED A OF ALL ED ON TI ING WA DEVICE CTED A OF ALL ED ON TI ING WA DORS / ALLATI	ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATION CAVITY ATION B CAVITY	TE, OR TE, OR TE, OR TE, OR TE, OR TREA UT DR/ TYREN: FOUND YISOC' BONDE 3 CON BRE IN: TO C. NSULA SEN UN THE TO C. NSULA NINST INSULA SPACE ICAL BC R PASS O SPACE CALLS ID SSTUD C ALLS ID SSTUD C ALLS ID SSTUD C ALLS ID SSTUD C	ACHIEVE CONCRE RVATIVE CONCRE RVATIVE CONCRETE SUPPOLYST SS AND F BLIES SIN AIR, POL BLIES SIN AIR, POL BLIES SIN CRETE ELWITH SRADE. ELANKE ACHIEVE XWOOL II URCRETE SUPPOLYST STADE. SETWE ACHIEVE XWOOL II URCRETS SETWE ACHIEVE XWOOL II URCRETS SETWE CONTINU TS AND S ELECTRIC CONTINUE SS III TS AND S ELECTRIC TS IN O S FIT INTE SS. IL IT HAS ALLS BET ALLS BET ALLS BET ALLS SET ALLS SET A	D MOUR RY OR C PRESE ED THR RUDED THR E SLAE ASSEME 0 PSI M ENER-/ ASSEME 6 PSI M L GUAI TION LLS MM CON EL GUAI TION LLS MM CON EL GUAI TION LLS MM CON EL GUAI TION EL TO / C EQUAL SINTER AND W/ SINTED AND W/ SI	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PL JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE VALUE PER AS STRENGTH: 30 PTANCE: IKO EL ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS, 8MN 0) ATTACH EACH RODUCT: R-22.5 APPROVED ES SULATION STANDARD FOF EMBLIES: BATT 2: MM REQUIREL RODUCT: R-22.5 APPROVED ES APPROVED ES APPROVED ES COLOSELY ARO 5: MINIMUM 75 SSED LIGHT FIX SE INSULATION CONSULTANT. METER WALLS: .S. RATED WALLS: .S. ATED WALLS SEINSULATION CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, 1 TH BASE SURF (1) SULATION TO INSULATION TO ATION TO MAINTO AND OTHER CONSULATION CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, 1 TH BASE SURF (1) SULATION TO STANDARD FIRE, 1 TH BASE SURF (1) SULATION TO STANDARD FIRE, 1 TH BASE SURF (1) SULATION TO MINIMUM TO AND FIRE, 1 STANDARD FIRE, 1 TH BASE SURF (1) SULATION TO MINIMUM TO AND FIRE, 1 STANDARD FIRE, 1 STA	SHALL COM N LUMBER FIRE TREAT VT. CONTACT 1 IS SHALL B CONTACT 1 IS SHALL B CONTACT 1 IS SHALL B CONTACT 1 IS SHALL B CONTACT 1 IN SULATIO D OF ACCE ATION: UNIE KNESS & R PRESSIVE D OF ACCE CRETE TOF ATION: FOU IM X 1220M LATION (R' HANICALLY ATE ANCHOC SLANKET IN STO2-1997, CREAT ANCHOC STATE ANCHOC ST	DIMENSICE PROVIDE EQUIPME WOOD IN LOCATION OT 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. ACC COMPLIA PRODUCT CAN/ULC C. ACC COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA a. INST INSTALLA A. INST INSTALLA COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA A. INST COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA C. DO N COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA C. DO N COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA C. DO N COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA C. DO N COMPLIA PRODUCT INSTRUC DATA SHE INSTALLA C. DO N C. DO N
G: ALKALI RESISTANT BITUMIN N SOLUTION. UNITS FOR EXTERIOR GLAZEI TRIPLE GLAZED, HERMETICA LLED INSULATING GLASS UNIT CTANCE, LACK STAINLESS STE S: 6 MM CLEAR TEMPERED GL S: 6 MM CLEAR TEMPERED GLAS S: 25 MM SHOP FABRICATED P. DOORS. DOORS D SWING DOOR WITH GLASS A INSERT AS INDICATED SUITAB TAIN WALL OR STOREFRONT S ID RAILS ARE TUBULAR EXTRU CHANICAL SHEAR BLOCK FAS S SQUARE, PLUMB AND FREE ES, TWISTS, BUCKLES OR OTH INTAL TO PERFORMANCE OR PANELS 3 MM SHEET ALUMINU M MARINE GRADE PLYWOOD RDWARE. DUCTS: ED EXTERIOR SWING TYPE DO EPTABLE PRODUCT: INSULDOO MICOR OR APPROVED EQUAL. R STILES NOMINAL 101.6 MM W INUS 6 MM. RAIL NOMINAL 98.4 MM WIDE F IS 6 MM. TOM RAIL NOMINAL 177.8 MM W INUS 6 MM. RAIL NOMINAL 177.8 MM W INUS 6 MM. RAIL NOMINAL 177.8 MM W INUS 6 MM. TRE RAIL 209.6 MM PLUS OR M LY BROKEN DOORS FOR EXTRU- CATHERSTRIPPING AND DOOR DLD, KN CROWDER CT-45 IATIC 1790 RIM TYPE EXIT DEV AWNEER CO-9, 26D S, LCN 1460, 26D MALLY BROKEN AND INSULAT S OF ALUMINUM EXTRUSIONS. //TH FIXED CENTRE MULLION. DUCT: ALUMICOR 3400 SERIES /// MALLY BROKEN AND INSULAT S OF ALUMINUM EXTRUSIONS. //TH FIXED CENTRE MULLION. DUCT: ALUMICOR 3400 SERIES /// MALLY BROKEN AND INSULAT S OF ALUMINUM EXTRUSIONS. //TH FIXED CENTRE MULLION. DUCT: ALUMICOR 3400 SERIES /// ALUMINUM EXTRUSIONS. //TH FIXED CENTRE MULLION. DUCT: ALUMICOR 3400 SERIES /// ALMARE IN ACCORDANC // ATES AND MANUFACTURER'S	<ul> <li>PAINT EPOXY RES</li> <li>INSULATED GLAS</li> <li>INSULATED GLAS</li> <li>TO CAN/CGSB-12 SEALED, ARGON WITH LOW COND EDGE SPACER.</li> <li>1 OUTER LITI</li> <li>9 ALUMINUM PANE FINISH TO MATCH</li> <li>SWING-TYPE ALUMINUM</li> <li>1 ALUMINUM-FRAM ALUMINUM PANE INCLUSION IN CU</li> <li>2 ENSURE STILES A DESIGNED FOR M COMBINATION W WELDS AND FILL CONNECTIONS.</li> <li>3 DOOR THICKNES:</li> <li>4 CONSTRUCT DOC DISTORTION, WA DEFECTS DETRIM APPEARANCE.</li> <li>5 FABRICATE INFILL LAMINATED TO 19</li> <li>6 INSTALL DOOR HA .1 ACCEPTABLE PR</li> <li>.1 TYPE 1 INSULA</li> <li>.2 DO OR</li> <li>.3 TOI MIN</li> <li>.4 BOOR</li> <li>.6 INSTALL DOOR HA .1 ACCEPTABLE PR</li> <li>.1 ACCEPTABLE PR</li> <li>.1 ACCEPTABLE PR</li> <li>.2 CONSTRUCT DO OR</li> <li>.3 (1) THRES</li> <li>.4 (2) DOR-O</li> <li>.5 (2) PULLS,</li> <li>.6 (2) CLOSE</li> <li>ALUMINUM FRAME:</li> <li>.1 CONSTRUCT THE EXTERIOR FRAME</li> <li>.2 PROVIDE FRAME</li> <li>.3 ACCEPTABLE PR</li> <li>.4 (2) DOR-O</li> <li>.5 (2) PULLS,</li> <li>.6 (2) CLOSE</li> <li>ALUMINUM FRAME:</li> <li>.1 CONSTRUCT THE EXTERIOR FRAME</li> <li>.2 ANCHOR SECURE</li> <li>.3 ACCEPTABLE PR</li> <li>.4 CONSTRUCT THE ELEVATION IN AL</li> <li>.2 ANCHOR SECURE</li> <li>.3 ACCEPTABLE PR</li> <li>.4 ADPROVED EQUA</li> <li>INSTALLATION:</li> <li>.1 SET FRAMES PLU ELEVATION IN AL</li> <li>.2 ANCHOR SECURE</li> <li>.3 INSTALL DOORS A HARDWARE TEMINING AL</li> <li>.4 ANCHOR SECURE</li> <li>.3 INSTALL DOORS A HARDWARE TEMINING AL</li> </ul>	.6 .7 .8	N, S,	SPACED 24" CE STRAPPII NDS ALONG DWN VALLE RUN OF A GUARDS. WITH A E ACE SCREW NAILING IS I TO MATCH FING. SECUE LAY TO PRE AYMENT. MM STENERS MMENDATIO ED FASTEN ED FASTEN ED FASTEN ED FASTEN S FOR RI MUM OF 8". TAL PANELS HE RIBS AT AUM OF 8". TAL PANELS HE RIBS AT IN LENGTH NELS. ATCHING RC ID MAKE AS PER (HAUST VEN MATCH ROI USING N EVERY LY STAGGE TING THE 15 , PIPES, ETC	STRAPPING, ONTAL SPRU SIONS AND D BE A DOUBLE SIONS AND D BE A DOUBLE NING OF SNO DOD SCREWS COF 1/16". SF HE RAFTERS. PING ON ALL KES. COLOU ING TALL ROC VIMUM. FELT UNDEF AND UNDER AND UNDER AND UNDER AND UNDER STALLED ON TEN SCREWS ARE TO BE 2 ADJACENT P MATERIAL MINI EDGE OF ME TALLED ON TEN SCREWS ARE TO BE 2 ADJACENT P MATERIAL MINI EDGE OF ME TALLED ON TENS. ALL E CK METAL TO FINS. ALL E CK METAL RIDE SURE ROOF H V FOR VENTII VOW GUARDS VART BETWEE IND VERTICAI IG NOT COUM ROTRUSIONS JR.	AL SPRUCE X 4" HORI E UP ROOF NY PROTRI /S ARE TO FOR FAST SING 2.5" W HEAD OF S DD MINIMUI LED INTO T RTER STRIF PING UP R INGS. NDER SHEE 3 100 MM M ER ASPHAL GET METAL AGE AND L OF WATEF ROOF PAN URER'S NG PANELS /E AN OVEL OF METAL ON BOTTOI D'ING. TIGH G. SCREWS E SEAMS IN TIONS WITI ATERTIGHT TION OF W G OVER AL COMMENDA G FLAT STO E STALL 12 CREWS. EN D'E STRAPPI CONF COLC	1" X 4" VERTI ING. INSTALL 16" ON CENT ND AROUND AND 3RD RC ING TO ALLO' STRAPPING I RSUNK IN WO 24" AND INSTA ABLE. 4" METAL ST. 5TARTER STR ETAL. 20SED FASTE UNDERLAY I ND LAP JOINT G BETWEEN G WITH ANCHO SHEET METAL TO MANUFAC METAL ROOF G BETWEEN G AND BOTTO FITTED FOAM EAVE LINE. FR AND BOTTO FITTED FOAM EAVE LINE. RE COOF PENETF AND MAKE 1 EAMS IN DIRE IGHT. VENT FLASH CTURER'S RE EPLACED USI 8. AP: INSTALL E WETAL ROOF RED HEADED I ADI BIN A HOIS N UP 2 ROWS N R ROW ALON- NG - CAULK AI NG TO MATCH	INSTALL SHEATH SPACED RAKES THE 2NI STRAPF INSTALL COUNTI EVERY ACCEP INSTALL METAL SPACED INSTALL METAL SPACED INSTALL SPACED	.1 .2 .3 .4 .5 .6 .7 .8 .9 .10 .11 .12 .13 .14 .14 .15		RS, VOOL IDING ND SID HE.LS ND CFI) CFI) CFI	TERIOF S. WALLS ATE OMM ANCHC ON. BRE: TI BY D S702. Y ROCK A, INCL ALLATI DEVICE CTED A OF ALL ED ON T ING WA DEVICE CTED A OF ALL ED ON T ING WA DORS / ALLATI NS, AN MAL	ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATED. AVING ATED. AT	TE, OR TE, OR TE, OR TE, OR TE, OR TREA UT DR/ TYREN: FOUND YISOC' BONDE 3 CON BRE IN: TO C. NSULA SET MINE E R-26. INSULA SET MINE E R-26. INSULA SPACE CALOGI N INST JITY OF SPACE CALOGI R PASS O SPAC E FIBR ALLY IN RONG O CAN NICC-STO R DING O CAN	CONCRE RVATIVE ROUGHO POLYS <sup>3</sup> 33 AND F BLIES IIN AIR, POL BLIES IIN RD NCRETE EL WITH RD NCRETE EL CONTINU TO RD NC RD RD RD RD RD RD RD RD RD RD RD RD RD	D MOUI RY OR ( PRESE ED THR RUDED THR E SLAE ASSEM 0 PSI M ENER-/ ASSEM 0 PSI M ENER-/ ASSEM 10 N LL GUAI 11 ON LL GUAI 11 ON EL OV 0 DR MIN IT AND ED TO / 2.5 ROCK UFACTION N INST/ NTAIN ( LEMEN) 0 OBJEC 10 N TC 75 MM F INTEL RATED AND W/ ENER-/ SINTEL RATED AND W/ ENER-/ INTEL INTEL RATED AND W/ ENER-/ INTEL INTEL RATED AND W/ ENER-/ INTEL INTEL INTEL AND W/ INTEL INTE	ALL LUMBER <sup>1</sup> TED PLYWOOD VITH MASONRY E PRESSURE PL JLATION N AS INDICATEL PTANCE: EXTRI ER CONCRETE VALUE PER AS STRENGTH: 30 PTANCE: IKO EL ERIOR WALLS VALUE PER AS STRENGTH: 16 PTANCE: WALL PED INSULATION NDATION WALLS, 8MN 0) ATTACH EACH RS 200MM BEL SULATION STANDARD FOF EMBLIES: BATT 2. MM REQUIREL RODUCT: R-22.5 APPROVED ES SULATION STANDARD FOF EMBLIES: BATT 2. MM REQUIREL RODUCT: R-22.1 APPROVED ES SULATION TION TO MAINT D BUILLETINS, P DUCT CARTON TION TO MAINT D BUILLETINS, P DUCT CARTON SED LIGHT FIX SE INSULATION CONSULTANT. METER WALLS: .S. RATED WALLS: .S. RATED WALLS: .S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON CONSULTANT. METER WALLS: .S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF INSULATION TO PLUCT CARTON S. CELLULOSE FIBF EW AND FIRE, ' TH BASE SURF CONSULTANT. METER WALLS: .S. ATED WALLS: .S. .S. .S. .S. .S. .S. .S.	SHALL COM N LUMBER FIRE TREAT VT. CONTACT 1 IS SHALL B CONTACT 1 IN SULATIO D OF ACCE ATION: UNIT KNESS & R PRESSIVE D OF ACCE CRETE TOF ATION: FOU IM X 1220M LATION (R' HANICALLY ATE ANCHO STO2.1997, S	DIMENSIC PROVIDE EQUIPME WOOD IN LOCATION 07 21 13 - I PROVIDE STANDAR a. LOC b. THIC c. COM STANDAR a. LOC b. THIC c. ACC COMPLIAN PRODUCT INSTRUC DATA SHE INSTALLA a. INST INSTALLA a. INST INSTALLA COMPLIAN PRODUCT INSTRUC DATA SHE INSTALLA a. INST INSTALLA COMPLIAN PRODUCT INSTRUC DATA SHE INSTALLA C. DO N C. DO N C. DO N C. ACC COMPLIAN PRODUCT INSTRUC DATA SHE INSTALLA C. DO N C. SUC C. DO N C.

Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street Charlottetown, PEI, Canada, C1A 1R6 Phone (902) 368-2300 www.colesassociates.com

![](_page_6_Figure_3.jpeg)

# W/ THERMAL GLAZING UNIT UPPER INSULATED ALUMINUM PANEL BOTTOM ALUMINUM FRAME

# DOOR TYPES

SCALE : NTS

CERTIFICATE of PRACTICE

Darrin Dunsford

Coles Associates Ltd.

AAPEI ANNCE EDWARD

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.

OCT 1 9 2023

STEEL WRAP AROUND FRAME

BUILDING CODE DATA	MATRIX	
ADDITION TO ECOLE F	IERRE CHAISSON	
PROJECT DESCRIPTIO	N: NEW 177 SQM ADDITION TO EXISTING BUILDING, PART 3	
MAJOR OCCUPANCY:	GROUP A, DIVISION 2 (SCHOOL)	
MINOR OCCUPANCY:	NONE	
FIRE SEPARATION BET	WEEN OCCUPANCIES: NONE	
ALTERNATE SOLUTION	N PROPOSED: NO	
BUILDING AREA: 3511	SQM (EXISTING); 177 SQM (ADDITION); 3688 SQM (TOTAL	
BUILDING)		
PORTION OF BUILDING	BETWEEN CLOSEST FIREWALL AND ADDITION: 307 SQM	
NUMBER OF STORIES:	1	
BUILDING HEIGHT:	7 M	
NUMBER OF STREETS	:1	
BUILDING CLASSIFICA	TION: ASSEMBLY	
FIREWALLS:	YES	
SPRINKLER SYSTEM:	NONE	
STANDPIPE SYSTEM:	NONE	
FIRE ALARM SYSTEM:	YES	
HIGH BUILDING: NO		
ROOF 45MIN	E RATING.	
FLOOR ASSEMBL	IES: 45MIN	
BASEMENT LOAD	D-BEARING: 45MIN	
OCCUPANT LOAD:	GROUP A2 : 50	
DARRIER-FREE. (EAIS		

	SECTION 08 14 16 - FLUSH WOOD DOORS	SECTION 09 65 13 - RESILIENT BASE AND ACCESSORIES	SECTION 31 23 33.01 - EXCAVATION
IN EXTERIOR WALLS TO:	a. WOOD DOORS SHALL COMPLY WITH AWMAC QUALITY STANDARDS OF	a. RESIDENT BASE TO BE PROVIDE ON ALL GWB WALLS EXCEPT FOR	INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS:
SION AND CONTRACTION WITHIN E RANGE OF -35 TO 35 DEGREES C.	THE ARCHITECTURAL WOODWORK MANUFACTURERS OF CANADA, AND CAN/CSA 0132.2	WHERE THE FLOOR IS CERAMIC TILE.	.1 TRENCH EXCAVATION AND BACKFILLING FOR PIPELINES AND APPURTENANCES.
MULLIONS TO MAXIMUM 1/175TH OF	<ul> <li>b. VENEERED WOOD DOORS SHALL HAVE SOLID CORES OF WOOD BLOCK CONSTRUCTION</li> </ul>	b. 4 ROBBER GOVE BAGE TO MATCH EXCHING.	.2 STRUCTURE EXCAVATION AND BACKFILLING.
STED TO ASTM E 330 UNDER WIND	c. PROVIDE 45 MIN. WARNOCK HERSEY FIRE RATING LABEL ON DOORS	SECTION 09 65 19 - RESILIENT TILE FLOORING	.3 CONTROL OF WATER BY DEWATERING.
	AS REQUIRED.	1. PROVIDE RESILIENT TILE FLOORING INCLUDING BUT NOT LIMITED TO	.4 PROVIDING BORROW MATERIAL WHEN REQUIRED. .5 REMOVAL AND DISPOSAL OF SURPLUS AND/OR UNSUITABLE MATERIAL.
SYSTEM AND PERIMETER FRAMING STRATE. KEYING TO BE	2. PRE-HUNG WOOD DOORS a. STANDARD OF ACCEPTANCE:	FOLLOWING: a. RESILIENT TILE AS INDICATED AS THE RF ON THE FINISH SCHEDULE.	.6 SHEETING, SHORING TRENCH BOX AND BRACING TO SUPPORT TRENCH
WNERS NEEDS.	i. MASONITE	b. PREPARATION OF SUB-FLOOR TO RECEIVE RF, INCLUDING FILLING OF	WALLS, SIDES OF EXCAVATIONS, EXISTING STRUCTURES OR UTILITIES.
SSB-12.20.	b. CORE: SOLID	SAW CUT CONTROL JOINTS.	.7 STRIPPING, STOCKPILING AND REPLACING TOPSOIL.
283 AT 75 PA PRESSURE	C. SURFACE: SMOOTH FLUSH HARDBOARD / MDF	CONSTRUCTION SEALANT IN PREPARATION FOR SCHOOL	.2 PRIOR TO COMMENCING ANY EXCAVATION WORK, NOTIFY APPLICABLE
OR AND FRAME SHALL NOT EXCEED	e. FIRE RATING: AS SCHEDULED	MAINTENANCE STAFF TO APPLY SEALER AND WAX.	SERVICES. CLEARLY MARK SUCH LOCATIONS TO PREVENT DISTURBANCE
ER CRACK. RRIER AND VAPOUR RETARDER	f. HEIGHT, WIDTH AND THICKNESS: AS SCHEDULED	SECTION 09 91 00 - PAINTING	GAS, ELECTRIC, TELEPHONE AND OTHER UTILITIES ENCOUNTERED. OBTAIN
	g. FINISH: FACTORY PRIMED DOOR AND FRAME	1. PAINTING AND FINISHING MATERIALS SHALL COMPLY WITH OR EXCEED REQUIREMENTS FOR PREMIUM GRADE WORK	DIRECTION OF OWNER OR UTILITY AND ENGINEER BEFORE MOVING OR OTHERWISE DISTURBING UTILITY.
GEAZING COMI COND.	i. HARDWARE:	2. CEILINGS SHALL BE PAINTED EXCEPT THOSE HAVING A FACTORY APPLIED	.3 STRIP TOPSOIL FROM WITHIN LIMITS OF EXCAVATION AND STOCKPILE FOR
S: TO ASTM B221, 6063 ALLOY WITH	i. HINGES: 3-1/2" BUTT HINGES, BRUSHED NICKEL, BALL BEARING, FULL		.4 KEEP EXCAVATIONS FREE OF WATER WHILE WORK IS IN PROGRESS.
STM B209, 6063 UTILITY GRADE	MORTISE, THREE PER DOOR.	3. EXCEPT FOR FACTORY-FINISHED SURFACES, AND WHERE DIRECTED OTHERWISE, ALL EXPOSED SURFACES INCLUDING PIPES, DUCTWORK AND	PROTECT OPEN EXCAVATIONS AGAINST FLOODING AND DAMAGE DUE TO
ACES, ANODIZING QUALITY FOR		MECHANICAL SHALL BE PAINTED. COLOURS IN MECHANICAL ROOMS SHALL BE COLOUR CODED. ALL EQUIPMENT SHALL BE LABELED.	PUBLIC HEALTH, ENVIRONMENT, PUBLIC AND PRIVATE PROPERTY, OR ANY
OMERIC WEATHERING OF	SECTION 08 53 13 - VINYL WINDOWS	4. LATEX EGGSHELL FOR WALLS.	5 EXCAVATE TO LINES, GRADES, ELEVATIONS AND DIMENSIONS AS INDICATED
SEMI-RIGID POLYMERIC BACKING.	1. STANDARD OF ACCEPTANCE:	5. LATEX FLAT FOR CEILINGS.	OR AS DIRECTED BY CONSULTANT. EXCAVATE UNSUITABLE MATERIAL FOR
	a. KOHLTECH WINDOWS 2 TYPES: SINGLE HUNG	<ol> <li>ALL PAINTING SYSTEMS ARE TO MEET THE OWNERS NEEDS FOR PRODUCT</li> </ol>	NORMAL 45 DEGREE SPLAY OF BEARING FROM BOTTOM OF FOOTING.
K NEOPRENE. DJUSTABLE DOOR SEAL OF	3. VINYL: SIZES PER DRAWINGS	PERFORMANCE.	NOTIFY ENGINEER WHEN SOIL AT PROPOSED ELEVATION OF TRENCH BOTTOM APPEARS UNSUITABLE FOR FOUNDATION OF INSTALLATION.
	4. COLOUR: WHITE ON BOTH SIDES	8. COLOUR AND FINISH: REFER TO MATERIAL / FINISH SCHEDULE.	REMOVE UNSUITABLE MATERIAL FROM TRENCH BOTTOM TO EXTENT AND DEPTH AS DIRECTED. STOCKPILE SUITABLE EXCAVATED MATERIALS
S.	5. BRICK MOULD: 7/8" WITH NAILING FLANGE, PICTURE NARROW PROFILE (PN)	SECTION 10 12 23 - WHITE BOARDS	REQUIRED FOR TRENCH BACKFILL IN APPROVED LOCATION. DISPOSE OF
KALI RESISTANT BITUMINOUS	0.28, VLT 0.51, R4.1 CENTER OF GLAZING	1. MATERIALS:	OFF SITE. DO NOT OBSTRUCT THE FLOW OF SURFACE DRAINAGE OR
S FOR EXTERIOR GLAZED DOOR:	7. GRILLES: NONE	a. LAMINATING ADHESIVE: TO MANUFACTURER'S STANDARD.	NATURAL WATERCOURSES. HAND TRIM, MAKE FIRM AND REMOVE LOOSE MATERIAL AND DEBRIS FROM EXCAVATIONS. WHERE MATERIAL AT BOTTOM
PLE GLAZED, HERMETICALLY INSULATING GLASS UNITS	8. INTERIOR ACCESSORIES: SCREENS & 3/4" INTEGRAL RETURN FOR WINDOW LINERS AND COMPLETE WITH ALL OPERATING & LOCKING HARDWARE	<ul> <li>b. JOINT REINFORCEMENT: CONCEALED MECHANICAL IOINTING SYSTEM TO PROVIDE STRAIGHT, RIGID</li> </ul>	OF EXCAVATION IS DISTURBED, COMPACT FOUNDATION SOIL TO DENSITY AT LEAST EQUAL TO UNDISTURBED SOIL. CLEAN OUT ROCK SEAMS AND FILL
ICE, LACK STAINLESS STEEL WARM	9. CLASSIFICATION RATING: TO CAN/CSA-A440	CONTINUOUSLY SUPPORTED, TIGHT BUTT, FLUSH JOINTS	WITH CONCRETE MORTAR OR GROUT TO APPROVAL OF CONSULTANT.
MM CLEAR TEMPERED GLASS WITH		AT SURFACE.	.6 EXCAVATING AND BACKFILLING FOR MECHANICAL AND ELECTRICAL WORK
ON SURFACE TWO.	I. STANDARD OF ACCEPTANCE:	c. ANCHOR CLIPS, BRACKETS AND FASTENERS: CONCEALED TYPE RECOMMENDED BY WHITEBOARD MANUFACTURER	AS WELL AS ANY OTHER TRADE REQUIRING SAME WITHIN THE CONTRACT
MM SHOP FABRICATED PANELS.	1. COMMERCIAL GRADE HARDWARE INCLUDING LOCKSETS, HINGES, CLOSER,	FOR FIXED MOUNTING.	OUT IN ACCORDANCE WITH PROVISIONS SPECIFIED HEREIN AND AS
RS.	EXIT HARDWARE, STOPS TO MEET THE OWNERS NEEDS.	d. FACINGS: HARDBOARD TO CAN/CGSB-11.3, 3MM THICK.	INDICATED. THIS WORK IS TO BE LAID OUT AND SUPERVISED BY THE TRADE CONCERNED. EXCAVATE TRENCHES TO LINES AND GRADES SHOWN TO A
/ING DOOR WITH GLASS AND/OR	1. EXTERIOR ALUMINUM DOORS TO BE KEYED TO SARGENT KEYWAYS A AND	e. CORE: FIBREBOARD: TO CAN/CSA A247, TYPE II. OR PARTICLEBOARD: TO CAN3-0188.1. GRADE R OR	MINIMUM OF 150MM (6") BELOW UNDERSIDE OF PIPE, CONDUIT, CABLE, OR
RT AS INDICATED SUITABLE FOR WALL OR STOREFRONT SYSTEM.		PLYWOOD: TO CSA 0121.	WILL OCCUR ALONG BARREL OF PIPE. CUT TRENCHES 600MM (24") WIDE (OR
AILS ARE TUBULAR EXTRUSIONS	'CENTRE SCOLAIRE COMMUNITAIRE D'.	2. COMPONENTS:	WIDER WHERE INDICATED) THAN MAXIMUM PIPE WIDTH. TRIM AND SHAPE TRENCH BOTTOMS AND LEAVE FREE OF IRREGULARITIES, LUMPS, OR
SMA DEEP PENETRATION PLUG	III. STANDARD OF ACCEPTANCE:	<ul> <li>a. EXTRUDED ALUMINUM: ALUMINUM ASSOCIATION ALLOY AA6063-T5</li> </ul>	PROJECTIONS. BOULDERS AND ROCK SHALL BE REMOVED OR EXCAVATED
LDS AT ALL STILE/RAIL	a. HINGES: TA2714 101X114, C26D, CMC b. DOORSTOP: S102L 26D, SM	b. WHITEBOARD TRIM AND FRAMING: PERIMETER TRIM OR	.7 USE FILL OF TYPES AS INDICATED OR SPECIFIED. COMPACTION DENSITIES
IM.	c. LOCKSET: 21 8225 LL MK VK PLUG W/KEYS	FRAME, MAP RAIL WITH CORK INSERT, BOTTOM RAIL WITH	ARE PERCENTAGES OF MAXIMUM DENSITIES OBTAINED FROM ASTM D698 ASTM D1557 CORRECTED MAXIMUM DRY DENSITY, UNLESS OTHERWISE
QUARE, PLUMB AND FREE FROM WISTS, BUCKLES OR OTHER	d. COMMERCIAL QUALITY HARDWARE	MANUFACTURER'S STANDARD SECTIONS APPROPRIATE	SPECIFIED, COMPACT TO THE FOLLOWING DENSITIES:
TO PERFORMANCE OR	e. REFER TO DOOR SCHEDULE FOR LOCATIONS.	FOR INSTALLATION CONDITIONS.	.1 COMPACT ALL FILL TYPES UNDER ALL PAVED AREAS TO 100% STANDARD PROCTOR.
ELS 3 MM SHEET ALUMINUM	1. HW-1 (DOORS 127, 128)	3. FABRICATION:	.2 COMPACT ALL FILL TYPES ALONG EXTERIOR SIDE OF PERIMETER WALLS
IARINE GRADE PLYWOOD.	a. HINGES: (3) TA 2714 101 X 114, C26D, CMC	a. FABRICATE WHITEBOARD PANELS TO SIZES INDICATED. WHITEBOARDS UP TO 3.6 M LENGTH SHALL BE	IN GRASSED AREAS TO 95% STANDARD PROCTOR.
rs:	b. LOCKSET: SARGENT 21 8225 LL MK VK PLUG W/KEYS	CONSTRUCTED IN ONE PIECE WITH NO SURFACE JOINTS.	.3 COMPACT ALL FILL TYPES UNDER CONCRETE SIDEWALKS AND SLABS TO 100% STANDARD PROCTOR
KTERIOR SWING TYPE DOORS:	c. DOORSTOP: S102L, 26D, SM 2. AL-1 (DOOR 208A)	<ul> <li>MAKE FINISHED PANELS FLAT AND RIGID AND FIT WITH IOINT REINFORCEMENT</li> </ul>	.4 COMPACT ALL FILL TYPES UNDER LANDSCAPED AREAS TO 95%
BLE PRODUCT: INSULDOOR BY R OR APPROVED EQUAL.	a. SARGENT CYLINDER	c. INSTALL TRIM ON PANELS IN FACTORY, MAKE MITRES AND	STANDARD PROCTOR.
LES NOMINAL 101.6 MM WIDE PLUS		JOINTS TO HAIRLINE FIT, FREE OF ROUGH EDGES. USE	.5 COMPACT ALL FILL TYPES UNDER FOUNDATIONS TO 100% STANDARD
NOMINAL 98.4 MM WIDE PLUS OR	SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES	CONCEALED BRACKETS TO REINFORCE AND HOLD JOINTS TIGHT AND FLUSH. NO EXPOSED FASTENERS PERMITTED.	.2 EXCAVATE TRENCHES TO LINES AND GRADES SHOWN TO A MINIMUM OF
/M.	a. CGC	d. OVERLAP TRIM 6 MM ONTO PANELS. PROVIDE CLOSED	150MM (6") BELOW UNDERSIDE OF PIPE, CONDUIT, CABLE, OR DUCT. PROVIDE RECESSES FOR BELL AND SPIGOT PIPE TO ENSURE BEARING
RAIL NOMINAL 177.8 MM WIDE PLUS 6 MM.	2. PROVIDE FIRE RATED GYPSUM BOARD. REFER TO PARTITION AND WALL	ENDS FOR TROUGHS AND OPEN-END EXTRUSIONS.	WILL OCCUR ALONG BARREL OF PIPE.
RAIL 209.6 MM PLUS OR MINUS 6MM.	3. GYPSUM BOARD SHALL COMPLY WITH CSA A82.27, AND SHALL BE 16 MM	e. FACTORY FIT ASSEMBLIES TOO LARGE FOR SHIPMENT TO SITE IN ONE PIECE. DISASSEMBLE FOR DELIVERY AND	.8 USE APPROVED COMMON OR GRANULAR BACKFILL MATERIAL AS INDICATED OR DIRECTED. DO NOT PROCEED WITH BACKFILLING OPERATIONS UNTIL
KUKEN DOORS FOR EXTERIOR.	(5/8") THICK.	SITE ASSEMBLY.	CONSULTANT HAS INSPECTED AND APPROVED INSTALLATIONS. AREAS TO BI
	4. STUDS FOR EXTRA HIGH PARTITIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF PRINCE	4. FINISHES:	GROUND.
24 CONTINUOUS GEAR TYPE		a. PROPERTIES OF WRITING SURFACE:	.1 PLACE BEDDING AND SURROUND MATERIAL AS SPECIFIED IN THE
ERSTRIPPING AND DOOR	OTHERWISE.	ENAMEL.	RESPECTIVE SECTION. .2 DO NOT BACKFILL AROUND OR OVERCAST-IN-PLACE CONCRETE WITHIN
	6. GYPSUM BOARD WORK SHALL COMPLY WITH CSA A82.31, AND THE DRYWALL CONSTRUCTION HANDBOOK	ii. UNAFFECTED BY SOLVENTS AND REAGENTS SUCH AS	24 HOURS AFTER PLACING.
1790 RIM TYPE EXIT DEVICES.	7. PROVIDE GYPSUM BOARD CEILINGS, WHERE TO UNDERSIDE OF TRUSSES	LACQUER THINNER.	.3 PLACE LAYERS SIMULTANEOUSLY ON BOTH SIDES OF INSTALLED WORK
EER CO-9, 26D	AS SHOWN.	iii. RESIST IMPACT TO 32 KG/CM (GARDNER IMPACT TESTER).	TO EQUALIZE LOADING. 4 PLACE MATERIAL BY HAND LINDER, AROUND AND OVER INSTALLATIONS
N 1460, 26D	<ol> <li>9. PROVIDE FIRE RATED PARTITIONS TO ULC DESIGNS REQUIREMENTS. ALL</li> </ol>	iv. WITHSTAND 180 DEGREE BEND ON ITSELF ON METAL SUBSTRATE WITHOUT CRACKING OR LOSS OF BOND.	UNTIL 300 MM OF COVER IS PROVIDED. DUMPING MATERIAL DIRECTLY ON
Y BROKEN AND INSULATED	GWB TO BE TYPE X.	v. PASS ADHESION TEST CONSISTING OF SCRATCHES 0.8 MM	INSTALLATIONS WILL NOT BE PERMITTED.
ALUMINUM EXTRUSIONS.	10. THICKNESS: MIN. 5/8" / 16MM GWB. 11. INCLUDE ALL SCREWS, CORNER BEADS, CASING BEADS, J.MOLDS	APART TO DEPTH OF SUBSTRATE, FOLLOWED BY CELLULOSE	.9 SHORING, SHEETING AND BRACING: UNLESS OTHERWISE INDICATED, OR DIRECTED BY ENGINEER, REMOVE SHEETING AND SHORING FROM TRENCH
E ALUMICOR 3400 SERIES OR		DISLODGING ADJACENT FINISH.	DURING BACKFILLING OPERATIONS. DO NOT REMOVE BRACING UNTIL BACKEILLING HAS REACHED LEVEL OF BRACING, PULL SHEETING IN 150 MM
		<ul> <li>ALUMINUM TRIM FINISHES: FINISH EXPOSED SURFACES OF ALUMINUM COMPONENTS IN ACCORDANCE WITH ALUMINUM</li> </ul>	INCREMENTS UNTIL CLEAR OF INSTALLATIONS, SIMULTANEOUSLY PLACING
QUARE, LEVEL AT CORRECT	SECTION 09 51 00 - ACOUSTIC CEILINGS 1 STANDARD OF ACCEPTANCE	ASSOCIATION DESIGNATION SYSTEM FOR ALUMINUM FINISHES.	SHEETING THEREAFTER IN INCREMENTS THAT WILL ENSURE BACKFILL IS
NT WITH ADJACENT WORK.	a. ARMSTRONG		MAINTAINED AT AN ELEVATION AT LEAST 450 MM ABOVE TOE OF SHEETING. SHORING LEFT IN PLACE. THE ENGINEER MAY ORDER SHORING TO BE
ARDWARE IN ACCORDANCE WITH	i. PRODUCT: FINE FISSURED	G. AUGENTABLE PRODUCTS: STANDARD WHITEBOARDS: RITE-ON, WIPE-OFF WRITING BOARDS, SERIES 400 CLASSIC BY	PERMANENTLY LEFT IN PLACE. SHORING THAT HAS BEEN ORDERED LEFT IN PLACE SHALL BE CUT OFF AND REMOVED TO A DEPTH OF 900 MM BELOW
S AND MANUFACTURER'S	II. I EXTURE: MEDIUM III. SQUARF I AY-IN	ARCHITECTURAL SCHOOL PRODUCTS LTD OR APPROVED	THE EXISTING OR FUTURE PROPOSED GRADE WHICHEVER IS THE LOWER,
RTS FOR CORRECT FUNCTION.	iv. SIZE: 610 X 1220 X 16, ITEM 1729	5. INSTALLATION	MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 150 MM IN THICKNESS UP TO
R DEFLECTION OF STRUCTURE TO JRAL LOADS ARE NOT	v. NRC 0.55, CAC 33	INSTALL WHITEBOARDS IN ACCORDANCE WITH	SUBGRADE ELEVATION. COMPACT EACH LAYER BEFORE PLACING SUCCEEDING LAYER. THOROUGHLY COMPACT EACH LAYER BEFORE
1ES.		MANUFACTURER'S INSTRUCTIONS, PARALLEL TO FLOOR	PLACING NEXT LAYER. CARRY OUT COMPACTION TESTS TO DEMONSTRATE THE EFFECTIVENESS OF BACKFILL THICKNESS PER LIFT VERSUS THE
- ALUMINUM COMPONENTS IN MA 609.1 - VOLUNTARY GUIDE	WITH ASTM C636.	TO PROVIDE RIGID, SECURE WRITING SURFACE.	NUMBER OF PASSES WITH THE SELECTED EQUIPMENT TO ACHIEVE THE
EANING AND MAINTENANCE OF IZED ALUMINUM.	3. ACOUSTIC TILE CEILING PANELS SHALL BE MINERAL FIBRE, NON-COMBUSTIRIE 610 MM X 1220 MM (24"X48"X 5/8"). SOURCE EDGE	6.SCHEDULE	TAMPING DEVICES, OR BY HAND TAMPING TO ACHIEVE SPECIFIED
		TWO (2) 4' X 8' WHITEBOARDS IN EACH CLASSROOM 127 AND 128 AS INDICATED ON DRAWINGS	COMPACTION. INSTALL DRAINAGE SYSTEM IN BACKFILL AS INDICATED OR DIRECTED BY CONSULTANT.
- 12	Client	Project Title	Sheet Title
HITECTS ASSO	Provincial Covernment of DEL	Ecole Dierro Chaisson Additi	Schodula Natas
* 12-16	Denartment of Transportation & I	nfrastructure IDTI Project #175_22045	& Specifications
I ICEDTIEXCATE of DI		$\dots = (m + m) = $	

![](_page_6_Figure_9.jpeg)

### SECTION 31 23 33.01 - EXCAVATION (CONT) .10 BACKFILL TRENCH FROM TOP OF BEDDING TO TOP OF GRADES INDICATED USING MATERIALS INDICATED OR SPECIFIED. PLACE BACKFILL IN 300 MM D THE FOLLOWING ITEMS: HORIZONTAL LAYERS AND COMPACT TO 95% STANDARD PROCTOR EXCEPT TO 100% STANDARD PROCTOR DENSITY UNDER EXISTING OR PROPOSED ASPHALT. .11 RESTORATION: IMPLEMENT EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING EXCAVATION. REPLACE TOPSOIL AS INDICATED OR DIRECTED

BY CONSULTANT. RESEED GRASS OR SOD AS INDICATED. CLEAN ALL PAVED SURFACES OF SOIL AND DEBRIS AT THE END OF EACH WORKING DAY. REINSTATE PAVEMENT AND SIDEWALKS TO CONDITION AND ELEVATION OR UNSUITABLE MATERIAL. CING TO SUPPORT TRENCH WHICH EXISTED BEFORE TRENCHING AND WITHIN TWO WEEKS OF PIPE ING STRUCTURES OR COMPLETION. REINSTATE ALL OTHER AREAS WHICH MAY HAVE BEEN DISTURBED BY WORK. K, NOTIFY APPLICABLE

# WT-\_ WALL TYPE XXX DOOR TAG ### AREA NAME & NO. NAME

# LEGEND

NG AND DAMAGE DUE TO ANNER NOT DETRIMENTAL TO RIVATE PROPERTY, OR ANY STRUCTION. DIMENSIONS AS INDICATED JNSUITABLE MATERIAL FOR ST NOT INTERFERE WITH OTTOM OF FOOTING. EVATION OF TRENCH N OF INSTALLATION. BOTTOM TO EXTENT AND AVATED MATERIALS LOCATION. DISPOSE OF AL IN APPROVED LOCATION

RFACE DRAINAGE OR IRM AND REMOVE LOOSE ERE MATERIAL AT BOTTOM IDATION SOIL TO DENSITY AT JT ROCK SEAMS AND FILL VAL OF CONSULTANT. ED EXCAVATION.

ILARITIES, LUMPS, OR REMOVED OR EXCAVATED 1 BELOW PIPE. D. COMPACTION DENSITIES

E SIDEWALKS AND SLABS TO PED AREAS TO 95%

AND OVER INSTALLATIONS PING MATERIAL DIRECTLY ON

10VE BRACING UNTIL PULL SHEETING IN 150 MM SIMULTANEOUSLY PLACING BY PULLED SHEETING. PULL LL ENSURE BACKFILL IS ABOVE TOE OF SHEETING. RDER SHORING TO BE AS BEEN ORDERED LEFT IN DEPTH OF 900 MM BELOW HICHEVER IS THE LOWER,

INEER. PLACE BACKFILL 150 MM IN THICKNESS UP TO BEFORE PLACING ACH LAYER BEFORE N TESTS TO DEMONSTRATE ER LIFT VERSUS THE

No.	Description	Date	Date: 2023-10-19	Revision
-	Issued for Tender	2023-10-19	Drn By: AJW	
			Chk By: DD	<u> </u>
			Project Number:	
			231124	
			Drawing Number:	
			A001	

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_8_Picture_1.jpeg)

Suite 201, 85 Fitzroy Street Charlottetown, PEI, Canada, C1A 1R6 Phone (902) 368-2300 www.colesassociates.com

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.

TE ASSA	Client	Project Title	Sheet Title
RECHITECTS ASSOCIATION RECHITECTS ASSOCIATION TECHTER OF PRACTICE	Provincial Government of PEI Department of Transportation & Infrastructure	Ecole Pierre Chaisson Addition DTI Project #175-23045.	Building Sec
OCT 1 9 2023			
Darrin Dunsford Coles Associates Ltd.			
AAPEI			

![](_page_8_Figure_7.jpeg)

# WINDOW & ROUGH OPENING FLASHING DETAILS SCALE : NTS

	No.	Description	Date	Date: 2023-10-19	Revision
ctions	-	Issued for Tender	2023-10-19	Drn By: AJW	
				Chk By: DD	
				Project Number:	
				231124	
				Drawing Number:	
				V300	

![](_page_9_Figure_0.jpeg)

GENEF	RAL	
1.1.1.1.	ENERAL THE FOLLOWING GENERAL CONDITIONS SHALL BE READ IN CONJUNCTION WITH THE GENERAL CONDITIONS AND SPECIAL CONDITIONS ISSUED BY THE PROJECT	
.2. SC	MANAGER. COPE OF WORK	1.
1.2.1.	THE WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, PLANT TOOLS AND SERVICES NECESSARY FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS AS INDICATED. THE WORK SHALL INCLUDE THE FOLLOWING:	1.
1.2.1.1. 1.2.1.	PLUMBING 1.1. PROVIDE EXTENSION OF UTILITIES AS INDICATED, AND CONNECTIONS TO EQUIDMENT AS REQUIRED	1.
1.2.1.2. 1.2.1.	HEATING: 2.1. PROVIDE EXTENSION OF THE EXISTING HEATING DISTRIBUTION SYSTEM	1.
1.2.1.1 1.2.1.3.	AND REBALANCING AS REQUIRED. 2.2. PROVIDE NEW HEATING TERMINALS AS INDICATED. VENTILATION	
1.2.1. 1.2.1.4.	3.1. PROVIDE A NEW ENERGY RECOVERY VENTILATOR, HEATING COIL, DUCTWORK, AND ALL APPURTENANCES FOR A COMPLETE INSTALLATION. CONTROLS:	
1.2.1.4	4.1. PROVIDE AN EXPANSION AS NEEDED FROM THE EXISTING BUILDING MANAGEMENT SYSTEM TO ACCOMMODATE POINTS AS NEEDED. CONTROLS VENDOR IS:	
1.2. <i>1</i> 1.2.1.4	1.4.1.1.       CONTROLS AND EQUIPMENT.         4.2.       PROVIDE THERMOSTATS, CONTROL VALVES, DAMPER ACTUATORS, AND         ALL SENSORS AND EVEL D DEVICES PEOURED	1.
1.2.1.5. 1.2.1.	FIRE PROVIDE TYPICAL 10 LB ABC FIRE EXTINGUISHERS INDICATED BY THE	1.
.3. DF	AWINGS. AWINGS THE DRAWINGS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE	
1.0.1.	MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIM FOR EXTRA PAYMENT ON ACCOUNT OF DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS SHALL BE	
	ALLOWED. IN THE CASE OF DISCREPANCY OF FIGURE DIMENSIONS ON THE DRAWINGS, THE MATTER SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER	
	ADJUSTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BEAR ALL EXTRA EXPENSES INVOLVED IN COMPLICATIONS ARISING FROM MAKING ADJUSTMENTS	
.4. EX	WITHOUT APPROVAL FROM THE OWNER. INTERPRETATION OF ALL DOCUMENTS SHALL BE BY THE ENGINEER. (TRA WORK	1.
1.4.1.	NO ADDITIONAL MONEY OVER CONTRACT PRICE SHALL BE PAID UNLESS CONTRACTOR RECEIVES A SIGNED APPROVAL IN ACCORDANCE WITH THE GENERAL CONDITIONS. NO ADDITIONAL MONEY SHALL BE PAID FOR USE OF EQUAL PRODUCTS.	
1.5. QU 1.5.1.	JALIFICATIONS WORK SHALL BE COMPLETED BY A LICENSED CONTRACTOR CERTIFIED FOR THE INSTALLATION OF SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL CODES AND REGULATIONS.	
.6. W. 1.6.1.	ARRANTY ALL EQUIPMENT, MATERIAL AND LABOUR PROVIDED BY THE CONTRACTOR SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM	
	THE DATE OF ACCEPTED SUBSTANTIAL COMPLETION. CONTRACTOR SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED IN ADDITION. THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY	2
	FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT.	2. 2.
1.7. CC 1.7.1.	CONTRACTOR MUST COORDINATE CLOSELY WITH ALL OTHER TRADES AND WITH EXISTING SERVICES AS CEILING SPACE WILL BE LIMITED IN SOME PLACES. WORK IS	
	TO BE EXECUTED IN A MANNER SO AS TO CAUSE MINIMUM DISRUPTION. ALL SERVICE INTERRUPTIONS SHALL BE SCHEDULED OUTSIDE NORMAL WORKING HOURS. THIS CONTRACTOR SHALL INCLUDE ALL COSTS FOR OVERTIME WORK	
.8. EX	INVOLVED WIHT THE CONSTRUCTION. AMINATION OF SITE REFORE TENDERING, EXAMINE THE SITE AND THE LOCAL CONDITIONS AFEECTING	
1.0.1.	THE WORK OF THIS CONTRACT. NO ALLOWANCE WILL BE MADE FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION.	
1.9. PE 1.9.1. 1.9.2.	APPLY FOR, OBTAIN, AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED. ANY ADDITIONAL MATERIALS OR LABOUR REQUIRED TO CONFORM TO ANY OF THE	
.10. CL	CONTRACT WITH NO ADDITIONAL COST TO THE OWNER. EAN UP AND REMOVALS	2
1.10.1.	THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE NEAT, CLEAN AND FREE FROM ACCUMULATION OF WASTE, MATERIALS AND RUBBISH WHICH ARISE OUT OF THEIR WORK. ALL MATERIAL DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF OFF SITE BY THIS CONTRACTOR.	
1.11. IN 1.11.1.	MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO BOTH THE INSTALLING TRADESMEN AND THE ON-SITE INSPECTOR PRIOR TO INSTALLATION	
	OF EQUIPMENT. THESE INSTRUCTIONS ARE TO BE READ, UNDERSTOOD AND CLOSELY FOLLOWED. FAILURE TO ABIDE BY THIS REQUIREMENT WILL PROVIDE JUSTIFICATION FOR THE ENGINEER TO REQUIRE REMOVAL AND RE-INSTALLATION.	
1.11.2.	ENSURE THAT ALL SAFETY DEVICES AND OTHER SIGNIFICANT ACCESSORIES ARE IN PLACE AND OPERABLE BEFORE STARTING MAJOR PIECES OF EQUIPMENT. AS PART OF THE COMMISSIONING PROCESS ACCESSORIES ARE TO BE CHECKED	
1.11.3.	CALIBRATED AND ADJUSTED AS NECESSARY TO ENSURE SAFE OPERATION. FOLLOW MANUFACTURER'S INSTRUCTIONS IN DETAIL IN ESTABLISHING	
.12. DE 1.12.1.	EMONSTRATION OF COMPLETE SYSTEMS AT THE CONCLUSION OF THE JOB, THE CONTRACTOR SHALL REVIEW AND	
	DEMONSTRATE TO THE OWNER ALL EQUIPMENT AND THEIR RESPECTIVE FUNCTIONS AND OPERATION. SUCH DEMONSTRATION SHALL BE PROVIDED FOR SUCH REASONABLE PERIODS OF TIME AS THE COMPLEXITY OF THE JOB	3.
	WARRANTS, AND AS APPROVED BY THE ENGINEER. SUCH REVIEW AND DEMONSTRATION SHALL BE MADE BY AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR, FULLY KNOWLEDGEABLE OF THE PROJECT. IT'S INSTALLATION AND	3.
1.12.2.	OPERATION. PROVIDE THE ENGINEER WITH A SCHEDULE OF SYSTEM DEMONSTRATION AT LEAST TWO (2) WEEKS PRIOR TO DEMONSTRATION	
.13. FII 1.13.1.	VAL INSPECTION PRIOR TO SUBSTANTIAL COMPLETION AND FINAL INSPECTION OF THE PROJECT,	3
	LIST, PROVIDE CONFIRMATION THAT ALL ITEMS ON THE LIST HAVE BEEN CORRECTED, PROVIDE THE OPERATION AND MAINTENANCE MANUALS, PROVIDE	3.
1.13.2.	THE RECORD DRAWINGS, BALANCING REPORTS AND PROVIDE THE DEMONSTRATION OF THE COMPLETED MECHANICAL SYSTEMS. ALL OF THE ABOVE MUST BE COMPLETED PRIOR TO THE FINAL INSPECTION BY THE	
I.14. SH 1 14 1	ENGINEER AND SUBSTANTIAL COMPLETION OF THE MECHANICAL SYSTEMS. HOP DRAWINGS CONTRACTOR TO SUBMIT ELECTRONIC SET OF SHOP DRAWINGS FOR REVIEW	3
1.15. OF 1.15.1.	PERATION AND MAINTENANCE MANUAL CONTRACTOR SHALL INSTRUCT THE OWNER IN OPERATION OF MAINTENANCE OF	0.
	ALL EQUIPMENT AND SYSTEMS INSTALLED. ALL SAFETY AND CONTROL FEATURES SHALL BE THOROUGHLY EXPLAINED. CONTRACTOR TO PROVIDE MAINTENANCE MANUALS FOR ALL EQUIPMENT INSTALLED, THREE (3) COPIES ORGANIZED IN 8 1/2"	
.16. RE	x 11" BINDERS TO BE PROVIDED TOGETHER WITH ALL APPROVED SHOP DRAWINGS AND A SPARE PARTS LIST. ECORD DRAWINGS	3.
1.16.1. 1.17. IDI 1.17.1	CONTRACTOR TO PROVIDE AS-BUILT RECORD DRAWINGS. ENTIFICATION PROVIDE ON EACH PIECE OF FOUIPMENT & METAL NAMEPLATE, MECHANICALLY	Ū.
	FASTENED WITH RAISED OR RECESSED LETTERS. JCT IDENTIFICATION:	3
1.18.1. 1.18.2. 1.18.3.	OSE 2 HIGH BLACK STENCILED LETTERS WITH DIRECTIONAL FLOW ARROW STENCIL OVER FINAL FINISH ONLY PROVIDE LAMINATED PLASTIC PLATES WITH BLACK FACE AND WHITE CENTRE OF	
1.18.4.	MINIMUM SIZE 6"x3"x1/8" NOMINAL THICKNESS, ENGRAVED WITH 1/4" HIGH LETTERING. USE 1" HIGH LETTERING FOR MAJOR EQUIPMENT. IDENTIFY MEDIUM IN PIPING WITH MARKERS OR STENCILS SHOWING NAME AND	
.19 ST	SERVICE INCLUDING TEMPERATURE, PRESSURE, AND DIRECTIONAL FLOW ARROWS WHERE RELEVANT. ANDARDS OF ACCEPTANCE	3.
1.19.1.	ALL EQUIPMENT MANUFACTURERS LISTED FORM THE STANDARD OF ACCEPTANCE FOR THE EQUIPMENT REQUIRED. ALTERNATE EQUIPMENT MAY BE SUBSTITUTED	
	TENDER PROCESS ONLY. PROVIDE SHOP DRAWINGS ON ALL MAJOR EQUIPMENT PRIOR TO ORDERING ANY EQUIPMENT IF ALTERNATE EQUIPMENT IS APPROVED	3.

1.20.2.	CLEAN AND REFURBISH ALL EQUIPMENT AND LEAVE IN FIRST CLASS CONDITION INCLUDING REPLACEMENT OF ALL FILTERS IN ALL AIR
1.20.3.	SYSTEMS. BALANCE AND ADJUST ALL SYSTEMS AND EACH PIECE OF EQUIPMENT
1.21. CUT	EFFICIENTLY. TING AND PATCHING ALL CUTTING AND PATCHING WILL BE THE RESPONSIBILITY OF THIS CO
1.22. SLE	EVES
1.22.1. 1.23 EXC	IN FLOOR, ROOF OR FIRE WALLS BEFORE CONCRETE IS POURED.
1.23.1.	ALL EXCAVATION AND BACKFILLING WILL BE THE RESPONSIBILIT
1.24. FIRI 1.24.1.	ESTOPPING AND SMOKE SEALS ALL FIRESTOPPING AND SMOKE SEALS REQUIRED TO PROPERLY ACC
	THE WORK OF THIS DIVISION SHALL BE THE RESPONSIBILIT CONTRACTOR.
1.24.2.	WHERE COMBUSTIBLE PIPES PASS THROUGH FIRE RATED WALLS, F PARTITIONS, A RATED FIRE STOP DEVICE SHALL BE USED TO ME
1.24.3.	ACCORDANCE WITH CAN4-S115. WHERE NON-COMBUSTIBLE PIPES PASS THROUGH FIRE SE
	INTUMESCENT CAULKING SHALL BE USED TO FILL VOIDS BETWEEN PIP ON BOTH SIDES.
1.24.4. 1.25. PRC	STANDARD OF ACCEPTANCE: HILTI, DOW CORNING, 3M, OR EQUAL. DTECTION OF OPENINGS
1.25.1.	PROTECT EQUIPMENT, SYSTEM OPENINGS INCLUDING ROUGH-IN PLUM DIRT, DUST AND OTHER FOREIGN MATERIALS WITH MATERIALS COM
1.26. ACC	THE SYSTEM. SESS DOORS THIS CONTRACTOR TO PROVIDE ACCESS DOORS FOR FURRED O
1.20.1.	SPACES FOR SERVICING EQUIPMENT AND ACCESSORIES OR FOR INS
	ERECTING THE WALLS OR CEILINGS. SUPPLY ULC RATED DOORS IN CONSTRUCTION
1.26.2.	ACCESS DOORS SHALL BE FLUSH MOUNTED 2' x 2' FOR BODY ENTRY HAND ENTRY OR AS NOTED ON THE DRAWINGS DOORS SHALL OPEN
	ROUNDED SAFETY CORNERS, CONCEALED HINGES, CYLINDER KEY ANCHOR STRAPS, STEEL SHALL BE PRIME COATED, DOORS SH
1.26.3.	APPROVED MANUFACTURER WITH PUBLISHED LITERATURE. PROVIDE CAM TYPE LOCKING DEVICE WITH CYLINDER KEY LOCK COM
1.26.4.	MASTER KEYS. STANDARD OF ACCEPTANCE: MIFAB #UA, WILLIAMS BROTHERS #WB
1.27. SAF	APPROVED EQUAL. ETY
1.27.1.	CONTRACTOR SHALL WORK UNDER THE REQUIREMENTS OF TH CONTRACTORS SITE SAFETY PLAN. CONTRACTOR IS TO COMPLY
	REQUIREMENTS OF THE PROVINCIAL OCCUPATIONAL HEALTH AND S REGULATION AND WORKERS COMPENSATION BOARD. CONTRAC
	REVIEW ANY SITE SPECIFIC SAFETY REQUIREMENTS WITH OWNER A TRAINING AS REQUIRED PRIOR MOBILIZATION TO SITE.
1.27.2.	CONTRACTOR SHALL PROVIDE A LOCK-OUT/TAG-OUT PROCEL GUARANTEE ISOLATION OF EQUIPMENT PRIOR TO STARTING WORK.
1.27.3.	CRANE TO SET EQUIPMENT IN-PLACE. CONTRACTOR TO PROVIDE I
	EXTERNAL TO THE BUILDING.
2. INSULAT	
2.1.1.	PROVIDE 1" INSULATION TO ALL PIPING, VALVES AND FITTINGS FOR A WATER, STORM WATER, DOMESTIC COLD AND HOT WATER.
2.1.1.1.	ALL CONCEALED PIPE TO BE PROVIDED WITH ALL SERVICE . EXPOSED PIPING TO BE PROVIDED WITH PVC JACKET.
2.1.1.2.	PROVIDE HIGH DENSITY INSULATION OR CALCIUM SILICATE UNDER ALL PIPE HANGERS.
2.1.1.3. 2.1.1.3	STANDARD OF ACCEPTANCE: 1. RIGID PIPE: MANSON ALLEY K APT, OWENS CORNING, OWEN
2.1.1.3	VAPOURWICK, MANVILLE MICRO LOK, KNAUF 2. PEX: TUNDRASEAL PLUS.
2.1.2.	APPLY INSULATION AFTER REQUIRED TESTS HAVE BEEN COMP APPROVED BY ENGINEER. INSULATION AND SURFACES SHALL BE CLE.
2.1.3.	WHEN INSTALLED AND DURING APPLICATION OF ANY FINISH. INSULATION IS NOT REQUIRED FOR:
2.1.3.1.	AND COLD WATER SERVICES, EXCEPT AS REQUIRED BY CODE.
2.1.3.2. 2.2. DUC	SAINTART DRAINAGE FIFING CTWORK SUPPLY DUCTWORK BEFORE HEATING COIL:
2.2.1.1.	PROVIDE 1" THICK FIBERGLASS DUCT INSULATION c/w FACTORY A SCRIM-KRAFT VAPOUR JACKET
2.2.2. 2.2.2.1.	SUPPLY DUCTWORK AFTER HEATING COIL: UNINSULATED.
2.2.3. 2.2.3.1.	RETURN DUCTWORK: UNINSULATED
2.2.4. 2.2.4.1.	OUTDOOR AIR INTAKE DUCTWORK & PLENUM: PROVIDE 2" THICK FIBERGLASS DUCT INSULATION c/w FACTORY A
2.2.5.	SCRIM-KRAFT VAPOR JACKET. EXHAUST DUCTWORK DUCTWORK & PLENUM:
2.2.5.1.	PROVIDE 2" THICK FIBERGLASS DUCT INSULATION c/w FACTORY A SCRIM-KRAFT VAPOR JACKET.
2.2.6.	INSTALL DUCT INSULATION WITH WELD PINS AND CLIPS. SEAL ALL PENETRATIONS WITH FOIL TAPE. INSULATE AFTER DUCTWORK HAS B
0.07	AND INSPECTED. ALL DUCT HANGERS AND ANGLE IRON SUPPORT
2.2.1.	OF THE ERV.
3. PLUMBI	
3.1.1.	ALL WORK TO BE COMPLETED IN ACCORDANCE WITH NBC, CPC, AND A HAVING JURISDICTION DURING DEMOLITION PHASE REMOVE STORE
	ALL PLUMBING FIXTURES, CUT AND CAP ALL PIPING AS NECESSARY ALL FIXTURES AS PER THE NEW ARCHITECTURAL LAYOUTS. CONNEC
3.1.2.	REQUIRED TO MEET CODE. CONTRACTOR SHALL CONDUCT AND PAY FOR ALL PIPING TESTS. ALL T
3.2. PIPI	BE CARRIED OUT IN THE PRESENCE OF THE ENGINEER OR HIS REPRES NG
3.2.1.	BELOW GRADE SANITARY PIPING TO BE PVC-DWV, ABS-DWV, CAST IR AT 1/8" TO 1'-0".
3.2.2.	ABOVE GRADE DRAINAGE AND VENTS - COPPER DWV, CAST IRON, PV SYSTEM 15 - WHEN CONCEALED), PVC - 25/50 (IPEX XFR - WHERE EXPOS
3.2.3. 3.2.4.	WATER ABOVE GRADE - TYPE L COPPER WATER BELOW GRADE - PEX
3.1. HAN	
3.1.1. 3.1.1.1. 3.1.1.2	USE GRINNELL FIG. CT-69 FOR HORIZONTAL HOT AND COLD WATER
3.1.1.3.	USE GRINNELL FIG. 260 FOR HORIZONTAL CAST IRON USE GRINNELL FIG. 261 FOR VERTICAL CAST IRON
3.1.1.5. 3.1.2.	PROVIDE INSULATION SHIELDS FOR ALL HANGERS ON INSULATED F BED SEWER PIPING ON 3" (75MM) LAYER OF SAND.
3.2. SPE 3.2.1.	CIALTIES DI-ELECTRIC UNIONS - WATTS 3001A SERIES, PROVIDE ON ALL CONN
3.2.2.	DISSIMILAR METALS. PROVIDE TRAP PRIMING MANIFOLD, PPP INC. #PTS SERIES, OR EQUAL
3.2.2.1. 3.3. VAL	RECESS IN WALL WITH ACCESS HATCH. VES AND GAUGES
3.3.1. 3.3.2.	GATE VALVES - CRANE #1320 BALL VALVES - CRANE #9322
3.3.3. 3.3.4.	GLUBE VALVE - CRANE #1312 CHECK VALVE - CRANE #1343
3.3.5. 3.3.6.	PRESSURE GAUGE - WEKSLER EA14 0-100 PSI THERMOMETER WITH WELL - WEKSLER EG5H9 30-180 DEG F
3.4. TES 3.4.1.	DRAINAGE PIPING SHALL BE PLUGGED AND THE ENTIRE PIPING SYSTE
040	FILLED WITH WATER UPTO THE TOP OF THE HIGHEST OPENING. W. STAND AT THE SAME LEVEL FOR NOT LESS THAN 2 HOURS.
3.4.2.	DOMESTIC WATER PIPING SHALL BE TESTED FOR 24 HOURS AT 125 PS NO SIGNIFICANT PRESSURE DROP OR APPARENT LEAKS.
э.э. HEA 3.5.1.	FINNED TUBE RADIATION: COMMERCIAL CONVECTOR CONSISTING OF F
	RADIATION ELEMENT NOMINALLY WITH A # COPPER PIPE AND 4"x4" ALL SPACED AT 52 FINS/FT, 16Ga COLD ROLLED STEEL CABINET WITH PROFILE EDGES SLOPED VENTED TOD AND ENGLOPED VENTED TOD
	ROWS OF FINNED ELEMENT AS INDICATED, COMPLETE WITH ALL TRIM
	OUTSIDE CORNER.)

![](_page_10_Picture_3.jpeg)

RESPONSIBILITY OF THE CONTRACTOR.

1.20. CLEANING AND FINAL ADJUSTMENT

HANDLING UNITS.

BY ENGINEER ALL COSTS ASSOCIATED WITH ANY REQUIRED MODIFICATIONS,

CHANGES, ETC TO USE THE ALTERNATE EQUIPMENT SHALL BE THE

1.20.1. CLEAN INTERIOR AND EXTERIOR OF ALL SYSTEMS INCLUDING STRAINERS AND AIR

Suite 201, 85 Fitzroy Street Charlottetown, PEI, Canada, C1A 1R6 Phone (902) 368-2300 www.colesassociates.com

![](_page_10_Figure_5.jpeg)

![](_page_10_Picture_6.jpeg)

**Department of Transportation** and Infrastructure

Project Title École Pierre Chaisson Addition DTI Project No.: 175-23045

![](_page_10_Picture_9.jpeg)

![](_page_10_Figure_12.jpeg)

# **PLUMBING & HEATING LEGEND:**

SAN	U/G SANITARY
	DOMESTIC COLD WATER
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
$\bowtie$	ISOLATION VALVE
≻ <b>→</b> (T.I.P.	TIE IN POINT
$\neg$	PERMANENT CAP
5	INSULATION
ζ	PIPE CONTINUATION
Ŕ	2 WAY CONTROL VALVE

![](_page_10_Figure_18.jpeg)

![](_page_10_Figure_19.jpeg)

![](_page_10_Figure_20.jpeg)

# CABINET HEATER PIPING DETAIL

	No.	Description	Date	Date: 2023-10-19	Revision
l Specification, Legend, and Details	0	Issued for Permit	2023-10-19	Drn By: V.R.Y.	
				Chk By: R.L.C., P. Eng	<u> </u>
				Project Number:	
				231124	
				Drawing Number:	

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_5.jpeg)

![](_page_11_Figure_6.jpeg)

![](_page_11_Figure_7.jpeg)

ZONE RADIATION CONTROL

										ENE	ERGY RECO	VERY VE	NTILA	TOR SCH	IEDULE								
				SUPPL	/	RETU	JRN		ELECTR	CAL	HE	ATING MC	DDE E	FFECTIV	ENESS		DIMEN	SIONS		BASIS OF			
TAG	LOCATION	SERVE	S AIF	RFLOW E CFM)	SP (IN W.G.)	AIRFLOW (CFM)	ESP (IN W.G.)	UNIT MCA	UNIT MOCP	POWE TYPI	ER OA (°C E DB/WE	C RA ( 5) DB/V	(°C VB)	FA (°C DB/WB)	% EFF. (TOTAL)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	F WEIGHT (kg)	DESIGN		NOTES	
ERV-10	CORRIDOR 208/ CEILING	CLASSRC 127, 12	DOM 28	680	1.4	680	1.4	13.8	15	120/1/	60 -20.7/-2	1.3 20.0/	11.5	1.7/-0.1	55.0	920	1200	600	100	FANTECH SER 1100	STATIC PLA SINGLE POINT I 13 FILTERS. ( WITH ISOLAT ACTUATORS	TE ENERGY RECOVERY CORE, ELECTRICAL CONNECTION, MERV DNBOARD DEFROST. SUPPLIED TON DAMPERS, LOW-VOLTAGE TO BE PROVIDE BY CONTROLS SUBCONTRACTOR.	
										LOUVRE	E SCHEDULE	<u>.</u>											
TAC	6	TYP	E		MANFA	CTURER	MOD	)EL	AIRFL	ow	PRESSUF DROP	E AIR	DIRE	CTION S	ZE (mm x m	ım)			COMM	ENTS			
L-1	6" STORM	IPROOF LOU CHANN	JVRE, WI IELS	TH DRAIN	VEN	ITEX	2620/2	2625	680 C	FM	0.05 IN W.	G.	INTAKE		INTAKE 600 x 600 ALUMINUM LOU FOF		NUM LOU FOR				IANNELS, SIZED		
L-2	4" STA	NDARD ALUI	MINUM LO	OUVRE	VEN	ITEX	2620/2	2625	680 C	FM	0.05 IN W.	N W.G. EXHAUST		0.05 IN W.G. EXHAL		0.05 IN W.G. EXHAUST 600 x 6		600 x 600 ALUMINUM LOUVRE, SIZED FOR MINIMUM 50% FRE UNCOATED		M LOUVRE, SIZED FOR MINIMUM 50% FREE AREA, UNCOATED		FREE AREA,	
								DUCT	ED HEAT	ING CO	IL SCHEDUL	.E											
		AIR	RSIDE				HEAT	TING DA	ГА				DIM	ENSIONS							_		
TAG	LOCATION SERV	ES AIRFLO (CFM)	W PD (IN W.G.)	N INLET AI ) TEMP. (°	R OUTL C) TEM	ET AIR P (°C)		EWT L (°C)	WT F (°C) (I	LOW _PM)	LIQ. P.D. (kPa)	_OAD L (kW)	LENG (mm	TH HEIGI ) (mm	HT )			NOTE	S				
HC-1	CORR. 208A ERV	-1 680	0.2	2.0	26	3.7 W	/ATER	82	71	12	40	9.6	500	200	CC PR	MPLETE E-DRILLE	WITH LIFT D BOLT H	TING LUG OLES, S/	GS, MOUN AME END	TING FLANGES, CONNECITONS.			
						DIFFUS	SER AND	GRILLE	SCHEDU	_E								]					
TAC	3	TYP	E		MANFACTURER MODEL SIZE (mm x mm) COMMENTS																		
S-ŕ	4-WAY	CEILING DIF	FUSER, 3	3-CONE	AIRVE	ECTOR	DF	MECK SIZE TO SUIT AIRFLOW NOTE ON DRAWING, DIFFUSERS TO           000 x 600         RE FOUNDED WITH BALANCE DAMPERS				NECK SIZE TO SUIT AIRFLOW NOTE ON DRAWING, DIFFUSERS TO											
R-´	PERFORA	ED FACE DI MOUNT	FFUSER FING	FOR T-BAR	AIRVE	ECTOR	PRI	М	600 x 6	NECK SIZE TO SUIT AIRFLOW NOTE ON DRAWING, DIFFUSERS TO BE EQUIPPED WITH BALANCE DAMPERS						JSERS TO							
					BAS	EBOARD	& CONVE	CTOR H	EATER S	CHEDUL	.E							1					
TAG	TYPE	C	OUTPUT (W/m)	LENGTI (mm)	WIDTH (mm)	HEIGHT (mm)	EAT (°C)	EWT (°C)	CONN				BASIS	S OF DES	IGN			]					
BB-1	FINNED TUBE RA IN CABINE	DIATOR 143 T 76	30 W/m @ 3C A.W.T.	AS INDICATE	D 127	457	18	82	DN20	ROS OL FI	ROSEMEX RVS COMMERCIAL CONVECTOR, SLOPED TOP VENTED OUTLET, COMPLETE WITH ALL TRIMS. ARRANGEMENT D, DUAL FINNED ELEMENTS, PROVIDE FOR CONTROL VALVE SECTION. PROVIDE BOTTOM ENCLOSURE PANEL TRIM.						/ENTED , DUAL CTION.						

# **ERV SEQUENCE OF OPERATIONS**

- 1. THE UNIT SHALL HAVE A CUSTOM GRAPHIC ON THE BMS. ALL VALUES FOLLOWED BY (ADJ.) ARE TO BE USER ADJUSTABLE.
- 2. THE ERV IS TO OPERATE ON AN ADJUSTABLE SCHEDULE. NOMINALLY OCCUPIED 7AM-5PM, MON-FRI, SEPT 1ST - JUNE 30TH.
- 3. THE ERV SHALL IMMEDIATELY SHUT DOWN IF THERE IS A SAFETY TRIP FROM THE FOLLOWING SIGNAL: 3.1. FREEZESTAT TRIP
- 4. SUPPLY AIR TEMPERING AND CONDITIONING THE BMS IS TO MODULATE THE HEATING COIL VALVE WHEN THE FANS ARE RUNNING TO MAINTAIN SAT\_SP.
- 4.1. WHEN OAT<5°C (ADJ.):. 4.1.1. SAT\_SP = 18°C (ADJ.)± 1°C (ADJ.)
- 4.2. WHEN OAT>12°C 4.2.1. HEATING COIL VALVE IS TO BE CLOSED.
- 4.3. WHEN OAT IS BETWEEN 5°C AND 12°: 4.3.1. SAT\_SP =  $15^{\circ}C$  (ADJ.)  $\pm 1^{\circ}C$  (ADJ.) DEADBAND.

5. NIGHT PURGE OPERATION

- 5.1. START THE ERV OVERNIGHT IF: 5.1.1. THE DATE IS BETWEEN MAY 15TH AND OCT 1ST.
- 5.1.2. THE TIME IS BETWEEN 1AM (ADJ.) AND 5AM (ADJ.). THE AVERAGE SPACE TEMP IS >22°C. 5.1.3.
- PREVIOUS DAY OAT REACHED AT MINIMUM 15°C (ADJ.)) 5.1.4. CURRENT TEMPERATURE IS BETWEEN 7-18°C (ADJ.). 5.1.5.
- 5.2. SHUT OFF UNIT WHEN ZONE AIR TEMPERATURES DROP TO 20°C (ADJ.) OR LESS FOR 15 MINS (ADJ.). USE OF THE HEATING COIL IS NOT PERMITTED.

# MODULATING CONVECTOR SEQUENCE OF OPS

- 1. THE UNIT SHALL HAVE A CUSTOM GRAPHIC ON THE BMS. ALL VALUES FOLLOWED BY (ADJ.) ARE TO BE USER ADJUSTABLE.
- 2. THE ZONE CONTROLS ARE TO BE 7. ZONE VALVE MODULATION: CONTROLLED ACCORDING TO THE FACILITY MASTER OCCUPANCY SCHEDULE.
- 3. OCCUPIED HEATING IS TO BE DISABLED IN WARM WEATHER, GENERALLY WHEN OUTDOOR AIR TEMP (OAT) IS IN EXCESS OF 15°C.
- 4. UNOCCUPIED HEATING IS TO BE DISABLE WHEN OAT IS IN EXCESS OF 10°C.
- 5. OCCUPANTS ARE TO HAVE A ±2°C ADJUSTMENT RANGE.
- 6. ZONE HEATING SETPOINTS ARE TO BE AS FOLLOWS: 6.1. WHEN OCCUPIED: 21°C (ADJ.)± 1°C (ADJ.)
- 6.1. WHEN UNOCCUPIED: 15°C (ADJ.) ± 1°C (ADJ.) 6.1.1. HEATING COIL VALVE IS TO BE CLOSED.
- 7.1. WHEN HEATING IS ACTIVATED, THE ZONE VALVE IS TO MODULATE IN RESPONSE TO THE ZONE AIR TEMPERATURE READING.
- 7.2. THE ZONE VALVE SHALL INITIALLY OPEN TO NO MORE THAN 33% OPEN WHEN HEATING IS ACTIVATED. THE ZONE VALVE MODULATION RATE 7.3.
- SHALL BE LIMITED TO 25% PER MINUTE. 7.4. THE ZONE VALVE IS TO MODULATE TO MAINTAIN THE HEATING SETPOINT ±0.3°C (ADJ.).
- 7.5. THE VALVE SHALL CLOSE WHEN THE VALVE IS AT MINIMUM POSITION FOR 1 MIN (ADJ.), AND THE TEMPERATURE IS APPROACHING THE SETPOINT + DEADBAND.

	No.	Description	Date	Date: 2023-10-19	Revision
Plans, Control Schematic	0	Issued for Permit	2023-10-19	Drn By: V.R.Y.	
ent Schedules				Chk By: R.L.C., P. Eng	
				Project Number:	
				231124	
				Drawing Number:	
				M100	

4	
1.1.	GENERAL CONDITIONS
1.2.	ALL ELECTRICAL WORK IS TO BE CARRIED OUT BY QUALIFIED, LICENSED ELECTRICIANS OR APPRENTICES FOR THE PROVINCE OF PRINCE EDWARD ISLAND AND THE ELECTRICAL CONTRACTOR MUST HAVE A VALID CONTRACTOR LICENSE ISSUED BY THE PROVINCE OF PRINCE EDWARD ISLAND.
1.3.	ELECTRICAL CONTRACTOR TO FURNISH ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. THE WORK IS TO BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK. PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.
1.4.	THE TERM "OWNER" TO HEREIN AFTER REFER TO THE DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE. THE TERM "ENGINEER" TO HEREIN AFTER REFER TO COLES ASSOCIATES LTD.
1.5.	THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP, AND TO CALL FOR ANY TESTS WHICH THEY DEEM NECESSARY TO ESTABLISH THE INTEGRITY OF THE INSTALLATION DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH TESTS ARE NOT TO BE CONSIDERED AS EXTRAS.
2.	DESCRIPTION OF WORK
2.1.	THE WORK IS TO CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING:
2	1.1. POWER DISTRIBUTION INCLUDING MODIFICATIONS TO EXISTING SYSTEM
2	1.3. LIGHTING
2	1.4. EXIT AND EMERGENCY LIGHTING
2	1.5. COMMUNICATIONS SYSTEMS, INCLUDING MODIFICATIONS TO EXISTING COMMUNICATIONS SYSTEM
2	1.6. INTRUSION ALARM, INCLUDING MODIFICATIONS TO EXISTING INTRUSION ALARM SYSTEM.
2	1.7. FIRE ALARM, INCLUDING MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM.
2	1.8. ALL CABLE AND CONDUIT INSTALLATION
3	CODES PERMITS AND INSPECTION
3.1.	ALL WORK IS TO BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CANADIAN ELECTRICAL
3.2.	ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR AND IS TO OBTAIN ALL PERMITS, INSPECTIONS, ETC. AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND IS TO PAY FOR SAME. THESE COSTS ARE TO BE INCLUDED IN THE TENDER PRICES. ALL PERMITS ARE TO BE DELIVERED TO THE OWNER'S
Л	REPRESENTATIVE AS SOON AS THEY BECOME AVAILABLE.
4.	EXAMINE ARCHITECTURAL, MECHANICAL, CIVIL AND ELECTRICAL DRAWINGS, VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT. ANY DEVIATION AND/OR CONFLICTS ON THE PLANS OR SITE IS TO BE REPORTED
F	TO THE ENGINEER PRIOR TO SUBMITTING TENDER, OTHERWISE IT WILL BE CONSIDERED THAT THEY HAVE BEEN ACCOUNTED FOR IN TOTAL TENDERED PRICE.
ວ. 5 1	CLEANUP REMOVE ALL WASTE PRODUCTS AND DEBRIS AND KEEP THE WORK AREA CLEAN AT ALL TIMES
5.2.	PRIOR TO FINAL REVIEW REMOVE SURPLUS PRODUCTS, TOOLS, AND CONSTRUCTION EQUIPMENT.
6.	CUTTING AND PATCHING
6.1.	BE RESPONSIBLE FOR ANY CUTTING, PATCHING AND OPENINGS NECESSARY FOR WORK. USE APPROPRIATE POWER DRIVEN TOOLS TO MAKE ANY OPENINGS. KEEP OPENINGS TO A MINIMUM, AND MAKE OPENINGS ONLY AS LARGE AS REQUIRED FOR ELECTRICAL SERVICES.
6.2.	PATCH, CAULK, AND SEAL AROUND OPENINGS PLACED THROUGH FULL HEIGHT WALLS TO REDUCE NOISE.
7. 7.1.	EXISTING STRUCTURES AND SERVICES CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY CUTTING OR DISRUPTING EXISTING STRUCTURES OR SERVICES DESIGNATED TO REMAIN IN USE.
8.	REMOVALS AND ALTERATIONS
8.1.	PRIOR TO DEMOLITION, OWNER WILL IDENTIFY ANY ITEMS OF ELECTRICAL EQUIPMENT WHICH ARE TO BE SET ASIDE AS DIRECTED FOR FUTURE USE BY OWNER.
8.3.	ANY EXISTING CONDUIT, WIRING, BOXES OR EQUIPMENT THAT IS TO REMAIN IN SERVICE IS TO BE PROPERLY SUPPORTED AS REQUIRED BY THE CEC. ANY ADDITIONAL HANGERS, STRAPS OR FASTENERS THAT ARE REQUIRED ARE TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT.
8.4.	MAKE ALTERATIONS TO EXISTING ELECTRICAL SERVICES AS REQUIRED AND MAKE GOOD ALL CIRCUITS AFFECTED BY THE RENOVATIONS.
8.5.	ANY EXISTING ELECTRICAL CIRCUITS AND/OR EQUIPMENT THAT ARE INTERRUPTED DURING CONSTRUCTION TO ACCOMMODATE ALTERATIONS BUT ARE TO REMAIN IN SERVICE ARE TO BE RECONNECTED AND CIRCUITS MADE GOOD.
8.6.	ANY RELOCATING OF EXISTING EQUIPMENT AND ANY REROUTING OF EXISTING WIRE AND CONDUIT TO COORDINATE WITH NEW WORK TO BE INCLUDED IN TOTAL TENDERED PRICE.
8.7.	THE OWNER INTENDS TO CARRY OUT DAY-TO-DAY BUSINESS AS USUAL THROUGHOUT THE FACILITY DURING THE RENOVATION. ALL POTENTIALLY DISRUPTIVE WORK INCLUDING POWER OUTAGES ARE TO BE COORDINATED AND SCHEDULED WITH THE OWNER IN AN EFFORT TO MINIMIZE DISRUPTION.
8.8.	EXISTING CONDUCTOR AND CIRCUIT BREAKERS AND ELECTRICAL EQUIPMENT MAY BE REUSED AT THE CONTRACTORS DISCRETION IF DEEMED SUITABLE FOR THE INTENDED INSTALLATION AND IN ACCORDANCE WITH CSA 22.1-21; OTHERWISE, PROVIDE NEW.
9.	EQUIPMENT AND MATERIAL
9.1.	ALL EQUIPMENT AND MATERIAL, UNLESS SPECIFICALLY NOTED OTHERWISE, IS TO BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL MATERIAL AND EQUIPMENT ARE TO BE CERTIFIED BY A CERTIFICATION AGENCY WHICH IS ACCREDITED BY THE CANADIAN STANDARDS COUNCIL OF CANADA IN ACCORDANCE WITH THE REQUIREMENTS OF CSA STANDARDS OR OTHER RECOGNIZED DOCUMENTS AND HAVE ALL REQUIRED LABELS PERMANENTLY AFFIXED AND VISIBLE WHEN INSTALLED.
10.	TESTING
10.1.	PERFORM TEST ON EACH SYSTEM TO THE SATISFACTION OF THE ENGINEER AND SUBMIT TEST RESULTS FOR APPROVAL PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.
10.2.	LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND RECORD CHANGES. INCLUDE SIGNED AN DATED LOAD BALANCE SHEETS IN MAINTENANCE MANUALS.
10.3.	TEST ALL SYSTEM GROUNDING CONDUCTORS FOR PHASE TO GROUND LOADS, AMMETER IS TO READ LESS THAN ONE AMPERE. INCLUDE SIGNED AND DATED TEST SHEETS IN MAINTENANCE MANUALS.
10.4.	MEGGAR ALL CIRCUITS OF PANELBOARD 'E' PHASE-TO-PHASE-TO-GROUND. INCLUDE SIGNED AND DATED TEST SHEETS IN MAINTENANCE MANUALS.
10.5.	ALL ELECTRICAL EQUIPMENT AND SYSTEMS TO BE COMMISSIONED BY ELECTRICAL CONTRACTOR, READY FOR USE BY OWNER.
11.	DEMONSTRATION OF THE SYSTEM

11.1. DEMONSTRATE THE FUNCTION AND OPERATION OF EACH SYSTEM TO THE ENGINEER AND OWNER.

12. IDENTIFICATION

- 12.1. EACH WIRE TO HAVE SELF-LAMINATING OR HEAT SHRINK ST NUMBER IT IS CONNECTED TO.
- 12.2. COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED AND METALLIC SHEATHED CABLES ARE TO BE PAINTED OR PENETRATIONS AND AT 15m INTERVALS. COLOUR CODING
- 12.3. ALL JUNCTION/PULL BOXES ARE TO BE MARKED WITH AN IN NUMBER OF ENCLOSED WIRING AND THE PANEL NAME.
- **COORDINATION** 13.

14.

- 13.1. BE RESPONSIBLE FOR COORDINATING THE INSTALLATION C LIGHTING FIXTURES, ETC. WITH OTHER TRADES PRIOR TO T
- ACCESSIBILITY 14.1. ALL WORK IS TO BE INSTALLED SO IT CAN BE READILY ACCE REPAIRS.
- 15. <u>RESPONSIBILITY</u>

EQUIPMENT.

- 15.1. BE RESPONSIBLE FOR WORK UNTIL THE COMPLETION AND ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN DELAY TO THE COMPLETION OF THE PROJECT. 16. WARRANTY
- 16.1. WARRANT ALL WORK AND MATERIALS INSTALLED UNDER T WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACC FASTENINGS AND SUPPORTS 17.
- 17.1. PROVIDE FASTENINGS AND SUPPORTS SPECIFICALLY DESIG
- 17.2. SPECIFIC PURPOSE HEAT TREATED, SPRING STEEL FASTEN FROM MAIN STRUCTURES, CHANNELS, METAL STUDS AND T-B-LINE; CADDY.
- 17.3. USE BAR TYPE BOX HANGER FASTENED TO T-BAR GRID WITH MOUNTED BOXES. ENSURE THAT T-BARS ARE ADEQUATELY PROVIDE ADDITIONAL EQUIPMENT SUPPORT WHERE REQUI
- 17.4. BOXES INSTALLED IN STUD WALLS ARE TO BE SUPPORTED I SUPPORTS. ACCEPTABLE MATERIAL: COOPER B-LINE, CADD
- 17.5. SECURE EQUIPMENT TO HOLLOW MASONRY WALLS WITH TO EXPANDABLE INSERTS.
- 17.6. PROVIDE METAL BRACKETS, FRAMES, HANGERS, CLAMPS A SUPPORT CONDUIT AND CABLE. DO NOT USE TY-WRAPS OF
- 17.7. ENSURE ADEQUATE SUPPORT FOR RACEWAYS AND CABLES REQUIRED.
- 17.8. DO NOT USE SUPPORTS OR EQUIPMENT INSTALLED BY OTHE UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER.
- 17.9. USE COOPER B-LINE FLEX-RITE SERIES OR APPROVED EQU FROM T-BAR HANGER WIRES.
- 17.10. DO NOT INSTALL CABLE, RACEWAYS AND BOXES DIRECTLY CABLES, RACEWAY AND BOXES SO THAT THE NEAREST OUT NOT LESS THAN 40mm FROM BOTTOM OF ROOF DECKING. CONDUIT AND FITTINGS 18.
- 18.1. WHEN SHOWN, CONDUIT SIZES ARE TO BE AS INDICATED ON SIZE UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER REQUIREMENTS. CONDUIT INSTALLED IN FINISHED AREAS IS CONDUIT IS TO BE INSTALLED PARALLEL OR PERPENDICULA INSTALLED TO CONSERVE HEADROOM IN SPACES THROUGH
- 18.2. EMT COMPLETE WITH STEEL SET SCREW COUPLINGS AND C CIRCUIT WORK UNLESS OTHERWISE INDICATED. INSTALL A WITH CEC REQUIREMENTS IN ALL CONDUITS.
- 18.2.1. AC90 IS AN ACCEPTABLE ALTERNATE TO CONDUIT FO WALL CONSTRUCTION.
- 18.3. WHERE CONDUIT PENETRATES THROUGH FIRE RATED STRU TO BE PACKED AROUND CONDUIT TO MAINTAIN FIRE RATING ACCEPTABLE MATERIAL: 3M BRAND FIRE BARRIER CAULK C EQUAL. PROVIDE FIRE COLLARS IN ADDITION TO FIRE CAUL
- 18.4. MINIMUM CONDUIT SIZE IS TO BE 21mm UNLESS OTHERWIS 18.5. ARMOURED CABLE TO BE USED FOR DROPS TO LIGHT FIXTU
- STRAPS AND CONNECTORS AS REQUIRED. 18.6. FOR EXTERIOR AND WET LOCATIONS USE LIQUID TIGHT FLEX
- 18.7. CONDUIT AND ARMOURED CABLES ARE TO BE SUPPORTED ONE-HOLE STEEL STRAPS FOR UNDER 53mmC, TWO-HOLE S
- CLAMPS, AND SPRING STEEL FASTENERS IN ACCORDANCE 18.8. PROVIDE LOW VOC MASTIC COMPOUND WEATHERPROOF SI WALLS OR STRUCTURES.
- OUTLET, PULL AND JUNCTION BOXES 19.
- 19.1. BOXES TO BE CODE GAUGE STEEL, SIZED TO MEET CSA 22.7 MOUNTING FOR THE TYPE OF CONSTRUCTION. USE CAST FS IN SERVICE ROOM.
- 19.2. PROVIDE PULL BOXES ON CONDUIT RUNS AT A MAXIMUM OF
- 19.3. BOXES TO BE SUPPORTED INDEPENDENT OF CONDUIT RUN
- 19.4. EXTERIOR BOXES TO BE WATERTIGHT.
- 20. INSTALLATION OF ELECTRICAL
- 20.1. PLANS SHOW APPROXIMATE LOCATION OF ELECTRICAL WO SITE WITH OTHER TRADES, ARCHITECTURAL PLANS, EQUIPM CREDIT OR EXTRA. INACCURATELY LOCATED ELECTRICAL CONTRACTOR'S EXPENSE.
- 20.2. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LOCAT MOUNTING HEIGHTS TAKEN FROM EQUIPMENT CENTERLINE
- 20.2.1. RECEPTACLES, TELEPHONE AND DATA OUTLETS: 450m HEATERS OR 813mm AFF AT TEACHER'S STATION.
- 20.2.2. LIGHT SWITCHES: 1219mm
- 20.2.3. FIRE ALARM PULL STATIONS: 1150mm
- 20.2.4. FIRE ALARM VISUAL AND/OR AUDIBLE SIGNAL DEVICES
- 20.2.5. WALL MOUNTED EXIT OR EMERGENCY LIGHTS: 2286mr 20.2.6. MOTION DETECTORS: 2438mm
- 20.3. DO NOT INSTALL OUTLETS BACK-TO-BACK IN WALLS, ALLOW 150mm MINIMUM HORIZONTAL CLEAR/
- BETWEEN BOXES. WHEN BOXES ARE INSTALLED WITHIN THE SAME STUD CAVITY, INSTALL VAPOUR BARRIER BOXES AND SEAL AROUND BOXES WITH ISOLATING EXPANSION FOAM. ACCEPTABLE MATERIAL: MONO CCMC No. 09421-R BY TREMCO.

![](_page_12_Picture_45.jpeg)

Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street Charlottetown, PEI, Canada, C1A 1R6 Phone (902) 368-2300 www.colesassociates.com

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.

- 10
- 1
- 10
- 10
- 10

- 11

- 1

- 4

WIRE AND CABLE

	21.
TYLE CABLE MARKER INDICATING THE CIRCUIT	21.1.
D CABLES WITH PLASTIC TAPE OR PAINT. CONDUIT TAPED ON BOTH SIDES OF WALL OR CEILING IO MATCH EXISTING.	21.2.
IDELIBLE INK MARKER TO IDENTIFY THE CIRCUIT	21.3.
OF EQUIPMENT, CONDUIT AND CABLE WORK,	21.4.
THE ACTUAL INSTALLATION.	21.5.
ESSIBLE FOR OPERATION, MAINTENANCE AND	21.6.
	21.7.
FINAL ACCEPTANCE, INCLUDING REPLACING ANY N WITHOUT ADDITIONAL COST TO THE OWNER OR	22. 22.1.
	22.2.
CEPTANCE OF SAME BY OTHERS.	22.3.
GNED TO SUPPORT THE LOAD FOR ALL ELECTRICAL	23. 23.1.
IERS TO SUPPORT BOXES, CONDUIT AND CABLE -BAR CEILING. ACCEPTABLE MATERIAL: COOPER	23.2.
TH SPRING STEEL FASTENERS TO SUPPORT FLUSH Y SUPPORTED TO CARRY WEIGHT OF EQUIPMENT.	23.3. 24.
RED. BETWEEN STUDS USING SPECIFIC PURPOSE BOX	24.1.
Y.	
	:
R ZIP TIES.	24.2.
IER TRADES FOR CONDUIT OR CABLE SUPPORT	:
AL. FASTENERS TO SUPPORT CONDUIT AND CABLE	:
TO UNDERSIDE OF ROOF DECKING. SUPPORT TSIDE SURFACE OF THE CABLE RACEWAY OR BOX IS	25.
	25.1.
N THE DRAWINGS AND ARE NOT TO BE REDUCED IN R; OTHERWISE, SIZE CONDUIT TO CSA 22.1-21 S TO BE CONCEALED WHERE POSSIBLE. ALL AR TO BUILDING LINES. CONDUIT IS TO BE H WHICH THEY PASS.	25.2.
CONNECTORS TO BE USED FOR ALL BRANCH SEPARATE BOND WIRE SIZED IN ACCORDANCE	25.3.
R INTERIOR BRANCH CIRCUITS CONCEALED IN STUD	
UCTURES, FIREPROOFING AND SMOKE SEALING IS G OF STRUCTURE WHICH IT PASSES THROUGH. P 25 OR 303 PUTTY COMPOUND OR APPROVED KING WHERE REQUIRED	25.4. 25.5.
E INDICATED.	26
URES, MAXIMUM 5' LONG. INSTALL ANTI-SHORTS,	26.1.
EX OR TECK CABLE WITH PROPER FITTINGS.	26.2.
INDEPENDENTLY OF OTHER EQUIPMENT USING STEEL STRAPS FOR 53mmC AND LARGER, AND BEAM WITH THE CEC.	26.3.
EAL WHERE CONDUITS PASS THROUGH EXTERIOR	26.4.
	27.
1-21 REQUIREMENTS AND SUITABLE FOR FLUSH S OR FD BOXES FOR SURFACE MOUNTED OUTLETS	27.1.
F 100' INTERVALS. IS.	27.2.
	28.
RK. EXACT LOCATION TO BE COORDINATED ON THE	28.1.
MENT, ETC. LOCATIONS MAY VARY BY 10' WITHOUT TO BE RE-ADJUSTED OR RELOCATED AT THE	28.2.
TE ELECTRICAL EQUIPMENT AT THE FOLLOWING	28.3. 28.4
mm IN GENERAL OR150mm ABOVE RADIANT	_0.7.
	28.5.
	28.6.
S: 2286mm m	28.7.
	28.8.

21.1.	ALL WIRES TO BE COPPER RW90, RATED 600V, INSTALLED IN CONDUIT UNLESS OTHERWISE INDICATED. AC90 IS AN ACCEPTABLE ALTERNATE TO CONDUIT FOR INTERIOR BRANCH CIRCUITS CONCEALED IN STUD WALL CONSTRUCTION	28.11. II	NSTALLATION TO CONFORM
21.2.	ALL WIRING TO BE SIZED TO MEET ALL REQUIREMENTS OF THE CSA 22.1-21. MINIMUM SIZE FOR BRANCH CIRCUIT WIRING TO BE #12 AND #14 FOR CONTROL WIRING UNLESS INDICATED OTHERWISE.	(I T V II	VORKMANSHIP. THE CERTIFIE NCLUDING LABOUR. AT NO C
21.3.	ALL WIRES TO BE NEW AND DELIVERED TO THE SITE OF THE PROJECT IN THEIR ORIGINAL PACKING. WIRES #8 AND LARGER TO BE STRANDED, #10 AND SMALLER TO BE SOLID. WIRES TO BE FACTORY IDENTIFIED SHOWING	29. <u>F</u>	VARRANTY IN MAINTENANCE
21.4.	SIZE, VOLTAGE RATING AND INSULATION TYPE. NEUTRAL CONDUCTOR TO BE WHITE THROUGHOUT, THREE PHASE WIRES TO BE: ONE RED, ONE BLACK AND	29.1. T C	HE FIRE ALARM EQUIPMENT ONFORM TO CAN/ULC STANI
21.5.	WHERE COMMON NEUTRALS ARE USED ENSURE THAT CIRCUITS ARE FROM DIFFERENT PHASES.	V	ESTIBULE 100.
21.6.	CABLES ARE TO BE INSTALLED WITHOUT SPLICES AND BE RUN CONTINUOUS FROM SOURCE TO LOAD.	29.2. S	POT TYPE FIRE DETECTORS
21.7.	USE GEL FILLED TWIST-ON CONNECTORS IN DAMP OR WET LOCATIONS. ACCEPTABLE MATERIAL: KING	29.3. S C	IGNALING APPLIANCES TO B OMBINATION TO HAVE 91d8
22.	CONNECTORS FOR WIRES	29.4. R L	EMOTE RELAYS TO INTERFA
22.1.	USE TWIST-ON PRESSURE TYPE WIRE CONNECTORS FOR #8 TO #14 SIZED WIRE CONNECTIONS. ACCEPTABLE MATERIAL: MARETTE	29.5. II II <i>F</i>	ISTALL FIRE ALARM SYSTEM ISTALL WIRING AS PER MANI IDRESSABLE LOOPS AND N
22.2.	USE CRIMP STYLE ALLOY WIRE CONNECTORS, NYLON INSULATED FOR #16 AND SMALLER WIRES AND FOR CONNECTING SOLID TO STRANDED CONDUCTORS.	V 20.6 E	VITH OWNER FOR DEVICE LO
22.3.	COMPRESSION TYPE CONNECTORS TO BE USED FOR CONNECTING #6 CONDUCTORS AND LARGER.	20.0. T	O BE INSPECTED, TESTED A
23.	GROUNDING AND BONDING	29.7. P F	ROVIDE MANUFACTURER'S \ OR RECORD.
23.1.	THE CEC AND LOCAL AUTHORITIES.	30. <u>s</u>	OUND REINFORCING SYSTE
23.2.	ALL CONDUITS TO HAVE SEPARATE INSULATED BONDING CONDUCTOR.	30.1. P C	ROVIDE ALL MATERIAL AND CLASSROOM SOUND SYSTEM
23.3.	ALL INSULATED GROUNDING AND BONDING WIRES TO HAVE GREEN JACKET.	B	UT IS NOT LIMITED TO, THE F EINFORCEMENT SYSTEM INI
24. 24 1	MANUAL MOTOR SWITCHES	30.2 <i>k</i>	YSTEM. N.I. MATERIALS SPECIFIED H
24	4.1.1. MANUAL MOTOR SWITCHES WITH 1,2 OR 3 POLES AS REQUIRED, MOUNTED IN CSA TYPE 1 ENCLOSURE WITH QUICK-MAKE QUICK-BREAK SHIELDED TOGGLE SWITCH WITH PROVISIONS TO BE PADLOCKED IN ON OR OFF POSITIONS	20.3 /	ERMANENTLY LABELED WITH
24	I.1.2. RATED FOR 30A AT 250V	30.3. A	STEMS SPECIFIED IN THIS
24	I.1.3. ACCEPTABLE MATERIAL: SQUARE D, SIEMENS, EATON.	30.4. C 30.4	LASSROOM SOUND SYSTEM
24.2.	CIRCUIT BREAKERS		THE DRAWINGS. A WIRE VOICE. A WIRELESS HAN
24	I.2.1. CIRCUIT BREAKERS TO HAVE THERMAL MAGNETIC TRIP PROTECTION WITH BIMETALLIC ELEMENTS FOR DELAY OVERLOAD PROTECTION. SINGLE POLE BREAKERS TO HAVE INTERNAL COMMON TRIP. BREAKERS ARE TO BE BOLT-IN FIELD INTERCHANGEABLE, 10 KAIC AT 208V. PROVDE ALL MOUNTING HARDWARE AS	30.4	.2. SOUND FIELD SYSTEM I AMPLIFICATION OF THE
24	4.2.2. CIRCUIT BREAKERS TO BE BY THE SAME MANUFACTURER AS THE PANELBOARD/DISTRIBUTION BOARD IN WHICH THEY ARE BEING INSTALLED. BREAKERS MUST BE NEW, COMPLETE WITH ORIGINAL FACTORY	30.4	.3. TYPICAL CLASSROOM IS ACCORDANCE WITH MA AND SIZE AND SPEAKEF
25	WARRANTY AND SUPPLIED FROM AN AUTHORIZED MANUFACTURER'S DISTRIBUTOR.	30.4	ARRANGEMENT OF TEA
25.1.	DUPLEX RECEPTACLES TO BE WHITE, STANDARD, COMMERCIAL SPECIFICATION GRADE, TAMPER RESISTANT	30.4	.4.4.1. DESCRIPTION:
	120V, 15A CSA 5-15R OR 20A CSA-5-20R AS INDICATED ON THE DRAWINGS WITH STAINLESS STEEL FACEPLATE. ACCEPTABLE MATERIAL: (CSA 5-15R) HUBELL #HBL5262WTR, COOPER, LEVITON, PASS & SEYMOUR, (CSA 5-20R) HUBBELL #HBL5362WTR, COOPER, LEVITON, PASS & SEYMOUR.	3	0.4.4.1.1. FOR EACH LOC WIRELESS SOU SYSTEM): ONE PENDANT
25.2.	SWITCHES, SINGLE POLE OR 3-WAY AS INDICATED TO BE WHITE, TOGGLE, COMMERCIAL SPECIFICATION GRADE RATED 15A, 120V, C/W STAINLESS STEEL FACEPLATE. ACCEPTABLE MATERIAL: COOPER; HUBBELL; LEVITON, PASS AND SEYMOUR.	3 3 3 3 3 3	0.4.4.1.3. ONE, 2-CHANNE 0.4.4.1.4. ONE, 2-CHANNE 0.4.4.1.5. TWO (2) WALL- 0.4.4.1.6. AUXILIARY INPI
25.3.	DIMMING SWITCHES TO BE CAPABLE OF DIMMING, LINE VOLTAGE CONTROL DIMMERS TO BE C/W 0-10 VDC CONTROL, 120V, 8A LINE VOLTAGE RATING ON/OFF AND ROCKER STYLE OR PUSH BUTTON SWITCH. MANUAL RE-SET SLIDE CONTROL FOR ADJUSTMENT FOR MAXIMUM INTENSITY TO OFF AND MINIMUM, THRESHOLD ADJUSTMENT TO ELIMINATE LAMP FLICKER. FINISH TO BE WHITE GLOSS; ACCEPTABLE MATERIAL: LUTRON, COOPER LEVITON, SENSOR SWITCH	3 30	0.4.4.1.7. ONE (1) PENDA 4.4.2. DEVIATIONS FROM OTHER SUCH INCID
25.4.	COVERPLATES IN FINISHED AREAS TO BE STAINLESS STEEL TO MATCH EXISTING, NUMBER OF GANG AS REQUIRED. SURFACE OUTLETS TO BE STAINLESS STEEL SUITABLE FOR CAST BOX MOUNTING.	30 30	.4.4.3. MANUFACTURERS: .4.4.8. ACCEPTABLE MANU
25.5.	PROVIDE CIRCUIT IDENTIFICATION AT ALL WIRING DEVICES USING PRE-PRINTED THERMAL NON-SMEAR LABELS, CLEAR VINYL WITH BLOCK LETTERING, ATTACHED TO COVERPLATE. WHITE VINYL LABELS WILL NOT BE ACCEPTED.		30.4.4.8.0.1.         FRONT RO           30.4.4.8.0.1.1.         IR SPE           30.4.4.8.0.1.2.         WIREL           30.4.4.8.0.1.3.         WIREL
26.	LUMINAIRES	30	.4.4.9. INSTALL ALL CONDU
26.1.	PROVIDE LUMINAIRES C/W DRIVERS AND LAMPS AS INDICATED IN THE LUMINAIRE SCHEDULE ON DRAWING E001, LUMINAIRES TO BE C/W ALL NECESSARY HANGERS, LOUVERS, DIFFUSERS, SUPPORTS, ETC.	30	.4.4.10. INSTALLATION INST
26.2.	CO-ORDINATE THE MOUNTING AND LOCATION OF LUMINAIRES WITH OTHER TRADES TO AVOID CONFLICTS.	30	.4.4.11. THE MANUFACTURE EQUIPMENT SPECIF
26.3.	JUNCTION BOXES IN SUSPENDED CEILING SPACE ARE TO BE ACCESSIBLE THROUGH THE FIXTURES OR BY REMOVABLE PANELS		WORK INVOLVED IN AND SUBMIT WRITT
26.4.	ALIGN LUMINAIRES IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINE. ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING LINES.	30	.4.4.12. PROVIDE FOR MANI VERIFY THAT THE S
27.	EXIT SIGNS AND EMERGENCY LIGHTS		
27.1.	EMERGENCY BATTERY TO BE RATED 36W FOR 30 MIN., 120V INPUT, 12V DC OUTPUT, WITH TWO 4W MR16 LED LAMPS, AUTO-TEST, WHITE HOUSING. ACCEPTABLE MATERIAL: AIMLITE #EBST1236-2MB4WLJWHT/ATD, LUMACELL #RG12S362LD7AT, READY-LITE #LDX1236AD2LD7, STANPRO #SLA1236-24WLJWH/AT. BATTERY TO HAVE A TEN YEAR UNCONDITIONAL PARTS AND LABOUR GUARANTEE	T S	UTES THE PLANS FOR THE WORK A PECIFICATIONS ARE MADE A
27.2.	INSTALL EXIT AND EMERGENCY LIGHTING AS INDICATED AND MAKE NORMAL AND EMERGENCY POWER CONNECTIONS. TEST EMERGENCY POWER FOR 30 MINUTES.	G S F	UARANTEED. THEY ARE INTE IMPLIFY THE GENERAL CONT OR EXTRA PAYMENT ON ACC
28.	COMMUNICATIONS SYSTEM	<u>م</u> _	
28.1.	ALL NEW WORK AND MODIFICATIONS TO THE TELEPHONE AND DATA NETWORK TO BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT ITSS STANDARDS FOR THE PROVINCE OF PEI.	T S E	HE PLANS LISTED BELOW FO PECIFICATION: -001 - ELECTRICAL SPECIFIC
28.2.	NEW DATA OUTLETS TO BE FED FROM SPARE DATA PORTS IN EXISTING PATCH PANELS IN EXISTING DATA RACK IN LAN ROOM	E	UMINAIRE SCHEDULE & LEG
28.3.	DATA CABLES TO BE CAT.6 FT4, PURPLE COLOUR. ACCEPTABLE MATERIAL: BELDEN TO ITSS REQUIREMENTS.	5	TOTENIO, LIGHTING & NUTES
28.4.	DATA OUTLETS TO BE CAT.6, MODULAR PURPLE COLOUR, ACCEPTABLE MATERIAL: BELDEN TO ITSS REQUIREMENTS TELEPHONE AND DATA MODULES TO BE MOUNTED IN A COMMON 4"X4" OUTLET BOX WITH PLASTER RING AND FLUSH SINGLE GANG WHITE NYLON FACEPLATE WITH A 21mm EMT CONDUIT UP TO		
28.5.	TERMINATE CABLES AT PATCH PANELS AND OUTLETS USING TS68a (IBDN) PIN ASSIGNMENT.		

- 28.6. SUPPORT CABLES ABOVE SUSPENDED CEILINGS USING J-HOOKS ATTACHED TO BUILDING STRUCTURE AT 4' C/C SPACING. DO NOT USE TY-WRAPS TO SUPPORT CABLES. ACCEPTABLE MATERIAL: CADDY CABLE CAT CLIP.
- 28.7. DRESS CABLES WITH VELCRO CABLE TIES. DO NOT USE TY-WRAPS OR ZIP-TIES TO SUPPORT CABLES. ACCEPTABLE MATERIAL: PANDUIT.
- 28.8. PROVIDE EMT CONDUIT SLEEVES ABOVE INACCESSIBLE CEILINGS, SIZED TO SUIT AT 40% FILL PLUS 50% SPARE CAPACITY.
- 28.9. DATA PATCH CORDS TO BE CAT.6 WITH RJ-45 PLUGS ON BOTH ENDS, PURPLE COLOUR, 4' LONG. ACCEPTABLE MATERIAL: BELDEN TO ITSS REQUIREMENTS.
- 28.10. CONTRACTOR TO SUPPLY PATCH CORDS AT BOTH THE MAIN DATA RACK AND IN THE INDIVIDUAL ROOMS. NUMBER OF PATCH CORDS REQUIRED SHALL BE DETERMINED BY THE NUMBER OF DATA OUTLETS SHOWN ON THE DRAWINGS. PATCH CORD LENGTH REQUIRED IN THESE AMOUNTS:
- 28.10.1. 4 FEET, 30% OF TOTAL COUNT
- 28.10.2. 7 FEET, 50% OF TOTAL COUNT

![](_page_12_Picture_78.jpeg)

			GENERAL LEGEND
28	8.10.3. 10 FEET. 20% OF TOTAL COUNT		INDICATES FIRE RATED WALL. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC LOCATIONS AND CONSTRUCTION INFORMATION
.11.	INSTALLATION TO CONFORM TO CAN/CSA-T568 AND BE FULLY CERTIFIED FOR CAT.5E (TELEPHONE) AND CAT.6		LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
	(DATA). ALL MATERIAL TO BE SOURCED FROM A CERTIFIED MANUFACTURER TO ASSURE QUALITY CONTROL. THE SYSTEM IS TO HAVE AN "END-TO-END 20 YEAR" WARRANTY AGAINST DEFECTS IN MATERIALS AND		HEAVY LINEWEIGHT INDICATES NEW WORK
	WORKMANSHIP. THE CERTIFIED SYSTEM VENDOR WILL REPAIR OR REPLACE ANY FAILED COMPONENT, INCLUDING LABOUR, AT NO COST TO THE OWNER. PROVIDE SYSTEM TEST RESULTS, CERTIFICATES AND	E-39a	a- INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS
	WARRANTY IN MAINTENANCE MANUALS.	GENERA	
.1.	THE FIRE ALARM EQUIPMENT AND DEVICES TO BE INTELLIGENT AND ADDRESSABLE, CSA APPROVED, CONFORM TO CAN/ULC STANDARDS, BE SUPPLIED BY A SINGLE MANUFACTURER, AND WIRED T EXISTING	WP -	RECEPTACLE GFCI C/W WEATHER PROOF WHILE IN-USE COVER
	VESTIBULE 100.	ER -	EXISTING EQUIPMENT TO BE RELOCATED
2.	SPOT TYPE FIRE DETECTORS: MULTIDETECTOR TYPE C/W PHOTO ELECTRIC AND FIXED TYPE HEAT SENSOR.	R-	RELOCATED EQUIPMENT
.3.	SIGNALING APPLIANCES TO BE COMPLETE WITH BACK BOX FOR FLUSH MOUNTING. HORN/STROBE COMBINATION TO HAVE 91d8 AND 15CD OUTPUT MINIMUM.	x -	EQUIPMENT TO BE REMOVED
.4.	REMOTE RELAYS TO INTERFACE WITH ACCESS CONTROL, SYSTEM PANELS FOR AUTOMATIC DOOR RELEASE		DIRECT CONNECTION
5	UPON FIRE ALARM.	Ø	SINGLE PHASE MOTOR
.0.	INSTALL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS. ALL WIRING TO BE IN EMT CONDUIT.	€	DUPLEX RECEPTACLE
	WITH OWNER FOR DEVICE LOCATION DESCRIPTION.	RECEPT	ACLE SUB SCRIPTS
.6.	FIRE ALARM SYSTEM TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC-S524. MODIFIED FIRE ALARM SYSTEM TO BE INSPECTED, TESTED AND VERIFIED IN ACCORDANCE WITH CAN/ULC-S536 AND S537.	20 -	CSA TYPE 5-20R
.7.	PROVIDE MANUFACTURER'S VERIFICATION REPORT OF THE MODIFIED FIRE ALARM SYSTEM TO CONSULTANT FOR RECORD.	'E'	EXISTING ELECTRICAL PANEL, SURFACE MOUNTED 'E' INDICATES PANEL DESIGNATION
	SOUND REINFORCING SYSTEM - CLASSROOM		EXISTING LUMINAIRE, CEILING MOUNTED
1.	OVIDE ALL MATERIAL AND LABOR REQUIRED TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ASSROOM SOUND SYSTEM IN CLASSROOMS AS INDICATED ON THE DRAWINGS. THIS WORK IS TO INCLUDE.		LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
	BUT IS NOT LIMITED TO, THE FURNISHING, INSTALLATION, ASSEMBLY, SETUP AND TESTING OF THE SPEECH REINFORCEMENT SYSTEM INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN FOR A FULLY OPERATIONAL SYSTEM.		LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
2.	ALL MATERIALS SPECIFIED HEREIN TO BE NEW AND BE THE MANUFACTURER'S LATEST DESIGN,	#	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
PERMANENTLY LABELED WITH THE MANUFACTURER'S NAME, MODEL NUMBER AND SERIAL NUMBER. ALL ACTIVE CIRCUITRY TO BE SOLID STATE AND BE RATED FOR CONTINUOUS USE.		(#H	LUMINAIRE, WALL MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
.3.	ALL AUXILIARY AND INCIDENTAL EQUIPMENT NECESSARY FOR THE OPERATION AND PROTECTION OF THE SYSTEMS SPECIFIED IN THIS SECTION IS TO BE FURNISHED AND INSTALLED AS IF SPECIFIED IN FULL HEREIN.	ŀ⊗∱	EXIT SIGN; WALL MOUNTED SHADING - INDICATES NUMBER AND LOCATION OF FACES ARROW - INDICATES DIRECTION OF EXIT
.4. 30	CLASSROOM SOUND SYSTEM: 0.4.1. PROVIDE AND INSTALL A SOUND REINFORCING SYSTEM TO SERVE EACH CLASSROOM AS INDICATED ON THE DEVINE AN UNITED SEA OUT TO A DEVINE TO SERVE THE TABLE AND A DEVINE TO A		DUAL HEAD EMERGENCY LIGHTING UNIT
	VOICE. A WIRELESS HAND-HELD, STUDENT PASS-AROUND MICROPHONE IS TO PROVIDE AMPLIFICATION OF THE TEACHER'S OF THE STUDENT'S VOICES.	\$#	SINGLE POLE SWITCH # - INDICATES SUBSCRIPT
3(	0.4.2. SOUND FIELD SYSTEM IS TO INCLUDE ALL COMPONENTS AND ACCESSORIES NEEDED TO PROVIDE	SWITCH	SUB SCRIPTS
	AMPLIFICATION OF THE TEACHER'S VOICE IN ALL CLASSROOMS.	3 -	THREE-WAY SWITCH
3(	3.4.3. TYPICAL CLASSROOM IS TO CONTAIN TWO (2) WALL MOUNTED SPEAKERS. SPEAKER QUANTITIES TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED SPEAKER QUANTITY FOR CLASSROOM SHAPE AND SIZE AND SPEAKER LOCATIONS SHALL BROVIDE UNIFORM SOUND DISTRIBUTION RECARDLESS OF	L-	0-10VDC LINE VOLTAGE DIMMER SWITCH
	ARRANGEMENT OF TEACHER AND STUDENTS.	а -	LUMINAIRE SWITCHING
30	0.4.4. LOCATE THE SYSTEM RECEIVER AS INDICATED ON THE DRAWINGS.	F	FIRE ALARM MANUAL PULL STATION
	30.4.4.1. DESCRIPTION: 30.4.4.1.1. FOR EACH LOCATION INDICATED, THE CONTRACTOR IS TO PROVIDE AND INSTALL A COMPLETE WIRELESS SOUND FIELD SYSTEM. THE SYSTEM IS TO INCLUDE, BUT NOT BE LIMITED TO (PER)		FIRE ALARM DETECTOR
	SYSTEM): 30.4.4.1.2. ONE PENDANT MOUNT TEACHER TRANSMITTER/MICROPHONE.	DETECT	OR SUB SCRIPTS
	30.4.4.1.3.ONE, 2-CHANNEL INFRA RED RECEIVER/AMPLIFIER.30.4.4.1.4.ONE, 2-CHANNEL HANDHELD INFRA RED TRANSMITTER/MICROPHONE.	M -	MULTISENSOR SMOKE DETECTOR
	30.4.4.1.5.TWO (2) WALL-MOUNTED SPEAKERS OR MORE AS INDICATED ON PLAN.30.4.4.1.6.AUXILIARY INPUT BOX WITH FOUR INPUTS FOR INTERFACE WITH TV OR PROJECTOR.	Ø	FIRE ALARM COMBINATION HORN STROBE
	30.4.4.1.7. ONE (1) PENDANT AND PASS-AROUND MICROPHONE CHARGER.		INTRUSION ALARM MOTION DETECTOR
	OTHER SUCH INCIDENTAL CHANGES THAT DO NOT AFFECT THE FUNCTIONING OR SERVICEABILITY OF THE SYSTEMS, SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANT.	$\diamond$	PUBLIC ADDRESS SYSTEM COMBINATION CALL-IN SWITCH & SPEAKER
	30.4.4.3. MANUFACTURERS:	HE	EXTERIOR SPEAKER; WALL MOUNTED
	30.4.4.8. ACCEPTABLE MANUFACTURER OR APPROVED EQUAL: 30.4.4.8.0.1. FRONT ROW 20.4.4.0.0.4.4.0.0.1. FRONT ROW	R	PUBLIC ADDRESS SYSTEM RECESS MOUNTED CEILING SPEAKER
	30.4.4.8.0.1.1. IR SPEARER #IR-920SP 30.4.4.8.0.1.2. WIRELESS MICROPHONE #IR-300M C/W BATTERY AND CHARGER 30.4.4.8.0.1.3. WIRELESS MICROPHONE (STUDENT) #IR-200M C/W BATTERY AND CHARGER	HS	SPEECH REINFORCEMENT SYSTEM SURFACE MOUNTED WALL SPEAKER
	30.4.4.9. INSTALL ALL CONDUIT, WIRING, ETC. IN ACCORDANCE WITH MANUFACTURER'S	R	SPEECH REINFORCEMENT RECEIVER
	30.4.4.10. INSTALLATION INSTRUCTIONS FOR A COMPLETE FUNCTIONAL SYSTEM.		DATA OUTLET-MOUNTED IN ACCESSIBLE CEILING SPACE ADJACENT TO WIRELESS ROUTER WIRELESS ROUTER SUPPLIED
	30.4.4.11. THE MANUFACTURER'S REPRESENTATIVE IS RESPONSIBLE FOR THE INSTALLATION OF ALL		AND INSTALLED BY OWNER.
	WORK INVOLVED IN THE HANDLING, INSTALLATION, PROTECTION AND CLEANING OF ITS PRODUCTS, AND SUBMIT WRITTEN REPORTS, IN ACCEPTABLE FORMAT, TO VERIFY COMPLIANCE OF WORK WITH CONTRACT.	1,1	DATA AND TELEPHONE OUTLET 1.1- FIRST NUMBER INDICATES QUANTITY OF RJ45 MODULE FOR TELEPHONE, SECOND NUMBER INDICATES QUANTITY OF RJ45 MODULES FOR DATA.

30.4.4.12. PROVIDE FOR MANUFACTURER'S CERTIFIED TECHNICIAN TO VISIT, PROGRAM, COMMISSION AND VERIFY THAT THE SOUND REINFORCING SYSTEM IS INSTALLED AS INDICATED AND OPERATES AS INTENDED AND THAT THERE ARE NO PROBLEMS.

THE PLANS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIMS FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS WILL BE ALLOWED. THE PLANS LISTED BELOW FORM AN INTEGRAL PART OF THIS SPECIFICATION: E-001 - ELECTRICAL SPECIFICATION, LUMINAIRE SCHEDULE & LEGEND E-100 - PARTIAL FLOOR PLAN - POWER, COMMUNICATIONS, SYSTEMS, LIGHTING & NOTES		LUMINAIRE SCHEDULE				
		TYPE DESCRIPTION		MOUNTING		
		610mm x 1220mm LED FLAT PANEL C/W DIE-FORMED GALVANIZED STEEL HOUSING, EXTRUDED ALUMINUM FRAME, WHITE OPAL LENS, 0-10VDC DIMMABLE TO 1%, 120V DRIVER. METALUX #24CGTS-NUV (MEDIUM) CFI #2SBP3550L8CS-4-UN3-DIM (MEDIUM) LITHONIA #CPX 2X4 AL08 SWW7 M2 (MEDIUM) ELITE #24-FPL-BL-LED-4000L/5000L/6000L-DIM10-MVOLT-35K-85	LED SOURCE 39 WATT 4600 LUMEN L70 AT 90,000h 80 CRI 3500K	RECESSED IN T-BAR CEILING.		
		304mm x 1220mm LED FLAT PANEL C/W DIE-FORMED GALVANIZED STEEL HOUSING, EXTRUDED ALUMINUM FRAME, WHITE OPAL LENS, 0-10VDC DIMMABLE TO 1%, 120V DRIVER. METALUX #14CGTS-NUV (HIGH) CFI #1SBP3040L8CS-4-UN3-DIM (HIGH) LITHONIA #CPX 1X4 AL07 SWW7 M4 (HIGH) ELITE #14-FPL-BL-LED-4000L/5000L/6000L-DIM10-MVOLT-35K-85	LED SOURCE 35 WATT 4000 LUMEN L70 AT 90,000h 80 CRI 3500K	RECESSED IN T-BAR CEILING.		
	B1	150mm DIAMETER, RECESS MOUNTED LED DOWNLIGHT C/W WIDE DISTRIBUTION, SELF-FLANGED AND SPECULAR CLEAR ALUMINUM REFLECTOR, 0-10VDC DIMMABLE TO 1%, 120V DRIVER. PORTFOLIO #LD6C-15-90-35-D010-W-1-H1 LITHONIA #LBR6 15LM 40K AR LSS WD MVOLT UGZ LIGHTOLIER #6RN-Z6RDL15935WOCDZ10U ELITE #HHJ6-LED-1500L-DIM10-MVOLT-WD-35K-90-HH6-6501-CL-SCH	LED SOURCE 16 WATT 1500 LUMEN L78 AT 55,000h 90 CRI 3500K	RECESSED IN DRYWALL CEILING.		
	C1	191 (w) x 305mm (h) x 127mm (d) EXTERIOR LED WALL PACK, DIECAST ALUMINUM HOUSING, BLACK POWDER COAT FINISH, BUILT-IN PHOTOCELL, 120V DRIVER. HALO #EWP15FSDBZ LITHONIA #TWX1 LED P2 40K MVOLT PE DBLXD RAYON #WP3-15W-40K-120V C/W BUILT-IN PHOTOCELL CREE #C-WM-A-WLMO-17L-40K-UL-BZ-P	LED SOURCE 22 WATT 2900 LUMEN L81 AT 100,000h 80 CRI 4000K	WALL MOUNTED ABOVE DOOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH GENERAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.		

 $\langle \vee \rangle$ 

VIDEO DISPLAY

CLOSED CIRCUIT TELEVISION CAMERA

Electrical Specification, Luminaire Schedule

No.	Description	Date	Date: 2023-10-19	Revision
-	Issued for Tender	2023-10-19	Drn By: M.E.M., C.E.T.	$\wedge$
			Chk By: E.S.C., P.ENG	<u> </u>
			Project Number:	
			231124	
			Drawing Number:	

TELEPHONE AND DATA TO SHARE COMMON FACEPLATE.

![](_page_13_Figure_0.jpeg)

THIS DRAWING AND ALL COPYRIGHT THEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF COLES ASSOCIATES LTD. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN ANY FORM WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF COLES ASSOCIATES LTD.

![](_page_13_Picture_1.jpeg)

Ecole Pierre Chaisson Addition

![](_page_13_Figure_3.jpeg)

PRIOR TO ROUGH-IN

Sheet Title

& Notes

- RACEWAY OR JUNCTION BOX WITH 1#14 GREEN BOND.

- 1
- NOTES:
- CAN/ULC-S524 AND CAN/ULC-S536.

9.

9.

- GOVERNMENT (ITSS) WIRING STANDARDS DATED FEBRUARY 2016.
- CONTRACTOR ON SITE.

- ACCORDANCE WITH CSA 22.1-21; OTHERWISE PROVIDE NEW.
- GENERAL NOTES:

![](_page_13_Figure_21.jpeg)

1. CONTRACTOR TO PROVIDE AND COORDINATE FOR ALL CUTTING, PATCHING AND PAINTING AS REQUIRED TO FACILITATE ELECTRICAL RENOVATIONS.

2. ALL NEW CSA 5-15R AND 5-20R RECEPTACLES ARE TO BE TAMPER RESISTANT EXCEPT WHERE THEY ARE IN ACCESSIBLE OR MORE THAN 1830mm AFF IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 26-706.

3. EXISTING ELECTRICAL EQUIPMENT, CONDUCTORS AND CIRCUIT BREAKERS MAY BE REUSED WHENEVER POSSIBLE AT THE CONTRACTOR'S DISCRETION IF DEEMED SUITABLE FOR THE INTENDED INSTALLATION AND IN

PRIOR TO COMMENCEMENT OF ANY ELECTRICAL WORK ASSOCIATED WITH THE NEW ADDITION, CONTRACTOR TO SCHEDULE AND COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER FOR ANY TEMPORARY SHUTDOWN OR WORK REQUIRED AT THE EXISTING PANELBOARD 'E' TO ENSURE NO DISRUPTIONS TO THE DAILY OPERATION OF THE SCHOOL. CONTRACTOR TO ENSURE ALL PANELBOARDS BEING WORKED ON DURING CONSTRUCTION TO BE LOCKED AT ALL TIMES WHEN UNSUPERVISED.

5. GAUGE OF BRANCH CIRCUIT WIRING TO BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% IN ACCORDANCE WITH CSA 22.1-21 SECTION 8.

6. CONDUIT AND CABLING PENETRATING THROUGH FIRE RATED SEPARATIONS TO BE FIRE AND SMOKE SEALED BY GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE. 7. EXPOSED ELECTRICAL CONDUIT BOXES AND SUPPORTS IN FINISHED AREAS ARE TO BE PAINTED THE COLOUR OF ADJACENT FINISHED SURFACE. COORDINATE EXACT COLOUR AND ASSOCIATED PAINTING WITH GENERAL

8. COORDINATE ALL COMMUNICATIONS WORK INCLUDING BUT NOT LIMITED TO LABELING AND TERMINATIONS WITH ITSS ON SITE. ALL COMMUNICATIONS WORK IS TO BE COMPLETED IN ACCORDANCE WITH PEI

CONTRACTOR TO PROVIDE FIRE ALARM VERIFICATION REPORT TO THE ENGINEER CERTIFYING THAT THE EXISTING MODIFIED FIRE ALARM SYSTEM HAS BEEN TESTED AND RE-VERIFIED IN ACCORDANCE WITH

10. EXISTING ELECTRICAL PANELBOARDS MODIFIED BY THE RENOVATIONS ARE TO BE PROVIDED WITH NEW TYPE WRITTEN CIRCUIT DIRECTORIES WITH UP TO DATE CIRCUIT DESIGNATIONS.

TRACE OUT, DISCONNECT, REMOVE AND SAFELY STORE EXISTING FIRE ALARM MANUAL PULL STATION DURING RENOVATION UNTIL IT IS REINSTALLED. ASSOCIATED FIRE ALARM WIRING TO BE DISCONNECTED AND REMOVED BACK TO CLOSEST FIRE ALARM JUNCTION BOX LOCATED IN THE ACCESSIBLE CEILING SPACE OF CORRIDOR 208. PROVIDE A BLANK STAINLESS STEEL TO COVER EMPTY OUTLET BOX.

TWO (2) NEW WIRELESS ACCESS ROUTERS ARE TO BE SUPPLIED AND INSTALLED BY ITSS, AND WIRED BY THIS CONTRACTOR. CONNECT WITH TWO (2) CAT 6 CABLES C/W RJ45 MODULES ROUTED FREE AIR THROUGH NEW AND EXISTING J-HOOKS IN THE ACCESSIBLE CEILING SPACE AND LAN ROOM CABLE TRAY BACK TO EXISTING SPARE DATA PORTS IN THE EXISTING FLOOR MOUNTED DATA RACK LOCATED IN LAN ROOM 303. PROVIDE AN EXTRA 2m OF SLACK CABLING AT EACH END, NEATLY COILED. EXACT LOCATION OF WAP TO BE COORDINATED ON SITE WITH ITSS PRIOR TO ROUGH-IN.

3. CONNECT NEW PUBLIC ADDRESS SPEAKERS AND CALL-IN SWITCHES TO EXISTING ADJACENT PUBLIC ADDRESS LOOP WITH NEW WIRING TO MATCH EXISTING PUBLIC ADDRESS INSTALLATION BACK TO THE MAIN PA RACK LOCATED IN COPY ROOM 138. EXACT RECESS MOUNTED PUBLIC ADDRESS SPEAKER MANUFACTURER TO MATCH EXISTING. COORDINATE EXACT TAP SETTING OF 70V SPEAKER ON SITE.

WIRE NEW COMMUNICATIONS OUTLET WITH ONE (1) CAT 6 COMMUNICATIONS CABLE IN 21mmC ROUTED FROM RECESS MOUNTED OUTLET BOX UPWARDS THROUGH INTERIOR OF GYPSUM WALL AND THEN STUBBED INTO THE ACCESSIBLE CEILING SPACE. COMMUNICATIONS CABLING TO THEN BE ROUTED FREE AIR ON NEW AND EXISTING COMMUNICATIONS J-HOOKS AND THROUGH EXISTING LAN ROOM CABLE TRAY BACK TO EXISTING SPARE DATA PORTS IN THE EXISTING FLOOR MOUNTED DATA RACK LOCATED IN LAN ROOM 303. PROVIDE AN EXTRA 2m OF SLACK CABLING AT EACH END, NEATLY COILED. BOND CONDUIT TO CLOSEST AVAILABLE

SUPPLY AND INSTALL EIGHT (8) NEW 15A/1P CIRCUIT BREAKERS IN POSITIONS 39, 58, 60, 61, 62, 64 AND 66 AND ONE (1) 20A/1P CIRCUIT BREAKER IN POSITION 63 OF EXISTING 250A MLO, 120/208V, THREE PHASE, FOUR WIRE SIEMENS #P2 SERIES PANELBOARD 'E' LOCATED IN CORRIDOR 208 FOR NEW RECEPTACLES, LIGHTING AND MECHANICAL LOADS IN THE NEW ADDITION.

6. TRACE OUT, DISCONNECT, REMOVE AND SAFELY STORE EXISTING LED "RUNNING MAN" STYLE EXIT SIGN. SPLICE AND EXTEND EXISTING BRANCH CIRCUIT WIRING TO PROVIDE FOR WIRING OF EXISTING EXIT SIGN RELOCATED TO ABOVE THE NEW EXTERIOR DOOR IN NEW CORRIDOR 208A

TRACE OUT, DISCONNECT, REMOVE AND STORE EXITING EXTERIOR Poe BASED EXTERIOR CCTV CAMERA. ALL ASSOCIATED STRUCTURED CABLING TO BE DISCONNECTED AND REMOVED BACK TO SOURCE. SAFELY STORE CAMERA DURING RENOVATION UNTIL IT IS REINSTALLED. SURFACE MOUNT RELOCATED CCTV CAMERA TO EXTERIOR SOFFIT AND INSTALL ONE (1) NEW YELLOW-JACKETED CAT 6 COMMUNICATIONS CABLE ROUTED IN 21mmC FROM THE CAMERA THROUGH THE ACCESSIBLE CORRIDOR CEILING SPACE TO THE MAIN CCTV RACK LOCATED IN COPY ROOM 138, PROVIDE AN EXTRA 2m OF SLACK CABLING NEATLY COLLED AT EACH FND. COORDINATE EXACT LOCATION AND POSITION OF CAMERA WITH DEPARTMENTAL REPRESENTATIVE ON SITE PRIOR TO INSTALLATION. SEAL ALL EXTERIOR WALL PENETRATIONS WITH LOW VOC MASTIC COMPOUND.

TRACE OUT, DISCONNECT, REMOVE AND STORE EXISTING INTERIOR CCTV CAMERA AND. ALL ASSOCIATED STRUCTURED CABLING TO BE DISCONNECTED AND REMOVED BACK TO SOURCE. SAFELY STORE CAMERA DURING RENOVATION UNTIL IT IS REINSTALLED. SURFACE MOUNT RELOCATED CCTV CAMERA TO UNDERSIDE OF T-BAR CEILING AND INSTALL ONE (1) NEW YELLOW-JACKETED CAT 6 CABLE ROUTED IN 21mmC FROM INTERIOR CAMERA THROUGH THE ACCESSIBLE CORRIDOR CEILING SPACE TO THE MAIN CCTV RACK LOCATED IN COPY ROOM 138. PROVIDE AN EXTRA 2m OF SLACK CABLING NEATLY COILED AT EACH END. COORDINATE EXACT LOCATION AND POSITIONING OF CAMERA WITH DEPARTMENTAL REPRESENTATIVE ON SITE PRIOR TO INSTALLATION.

TRACE OUT, DISCONNECT, REMOVE AND SAFELY STORE EXISTING INTRUSION ALARM MOTION DETECTOR. RECONNECT RELOCATED MOTION DETECTOR TO EXISTING ADJACENT MOTION DETECTOR SECURITY LOOP WITH NEW WIRING AS NECESSARY TO MATCH EXISTING AND TO PROVIDE FOR THE RELOCATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO PROVIDE A SIGNED REPORT TO THE ENGINEER CERTIFYING THAT THE MODIFIED SECURITY SYSTEM HAS BEEN INSTALLED AND VERIFIED.

10. CONNECT NEW 120V/10, 13.8 MCA 'ERV-1' LOCATED IN THE ACCESSIBLE CEILING SPACE TO THE NEW 15A/1P CIRCUIT BREAKER LOCATED IN POSITION 64 OF PANELBOARD 'E' THROUGH A LOCAL MANUAL MOTOR STARTER WITH 2#12, 1#14 BOND IN 21mmC. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

11. TRACE OUT, DISCONNECT, SPLICE AND EXTEND EXISTING BRANCH CIRCUIT WIRING ASSOCIATED WITH EXISTING OBSOLETE CEILING MOUNTED CABINET UNIT HEATER TO LOCATION OF NEW CEILING MOUNTED CABINET UNIT HEATER. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH OBSOLETE CEILING MOUNTED CABINET UNIT HEATER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE

12. CONNECT ELECTRONIC TRAP SEAL PRIMER FROM NEW DEDICATED CONTROLS CIRCUIT WITH 2#12, 1#14 BOND IN 21mmC. COORDINATE EXACT LOCATIONS ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. 13. CONNECT THE NEW FIRE ALARM COMBINATION HORN/STROBE TO CLOSEST AVAILABLE FIRE ALARM NOTIFICATION LOOP ROUTED BACK TO EXISTING SIEMENS #FS-250C SERIES FIRE ALARM CONTROL PANEL LOCATED IN THE SCHOOLS MAIN VESTIBULE 100. EXACT LOCATION OF CLOSEST AVAILABLE FIRE ALARM NOTIFICATION LOOP TO BE DETERMINED ON SITE. ALL WIRING TO BE COMPLETED IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS AND FIRE ALARM WORK TO BE COMPLETED TO CAN/ULC-S524.

14. CONNECT THE EXISTING STORED, RELOCATED FIRE ALARM MANUAL PULL STATION TO CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP ROUTED BACK TO EXISTING SIEMENS #FS-250C SERIES FIRE ALARM CONTROL PANEL LOCATED IN THE SCHOOLS MAIN VESTIBULE 100. EXACT LOCATION OF CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP TO BE DETERMINED ON SITE. ALL WIRING TO BE COMPLETED IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS AND FIRE ALARM WORK COMPLETED TO CAN/ULC-S524.

15. CONNECT THE NEW FIRE ALARM INITIATION DEVICES TO CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP ROUTED BACK TO EXISTING SIEMENS #FS-250C SERIES FIRE ALARM CONTROL PANEL LOCATED IN THE SCHOOLS MAIN VESTIBULE 100. EXACT LOCATION OF CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP TO BE DETERMINED ON SITE. ALL WIRING TO BE COMPLETED IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS AND FIRE ALARM WORK TO BE COMPLETED TO CAN/ULC-S524.

16. NEW SPEECH REINFORCEMENT RECEIVER TO BE SHELF MOUNTED ADJACENT TO TEACHER'S STATION. CONTRACTOR TO RUN 2c#18 SPEAKER CABLE AND RG59 COAX CABLE IN 21mmC FROM NEW SPEECH REINFORCEMENT SPEAKERS THROUGH ACCESSIBLE CEILING SPACE AND THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY TO SPEECH REINFORCEMENT RECEIVER. SPEECH REINFORCEMENT SPEAKERS AND RECEIVER TO BE INSTALLED AND WIRED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION AND WIRING INSTRUCTIONS. SHELF TO BE PROVIDED BY OTHERS.

17. TRACE OUT, DISCONNECT, REMOVE AND STORE EXISTING THREE-WAY TOGGLE SWITCH. PROVIDE FOR WIRING OF THE RELOCATED THREE-WAY TOGGLE SWITCH TO EXISTING LIGHTING BRANCH CIRCUIT 'E-9b' AS REQUIRED WITH 2#12, 1#14 BOND IN 21mmC ROUTED THROUGH THE ACCESSIBLE CEILING SPACE.

18. PROVIDE FOR WIRING OF THE NEW TYPE A2 LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT WIRING 'E-9b' WITH 2#12, 1#14 BOND IN 21mmC ROUTED THROUGH THE ACCESSIBLE CEILING SPACE AS REQUIRED. 19. TRACE OUT, DISCONNECT, SPLICE AND EXTEND EXISTING EXTERIOR BRANCH CIRCUIT WIRING 'B-12' THROUGH THE ACCESSIBLE CEILING SPACE TO THE NEW TYPE C1 EXTERIOR WALL PACK.

20. WIRE NEW EMERGENCY LIGHTING BATTERY PACK TO EXISTING LIGHTING BRANCH CIRCUIT 'E-9' WITH 2#12, 1#14 BOND IN 21mmC ROUTED THROUGH THE ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING HEIGHT WITH LOCKER LAYOUT AND INSTALLATION ON SITE PRIOR TO ROUGH-IN.

21. PROVIDE FOR WIRING OF THE NEW TYPE B1 LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT WIRING 'E-9a' WITH 2#12, 1#14 BOND IN 21mmC ROUTED THROUGH THE ACCESSIBLE CEILING SPACE AS REQUIRED. 22. DUPLEX RECEPTACLE LOCATED IN THE ACCESSIBLE CEILING SPACE DEDICATED FOR PROJECTOR. COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE ON SITE PRIOR TO ROUGH-IN. DUPLEX RECEPTACLE TO BE SECURELY FASTENED TO JOIST IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 12-3010.

23. CONTRACTOR TO INSTALL 27mm EC FROM HDMI AV OUTLET BOX UPWARDS THROUGH INTERIOR OF GYPSUM WALL AND STUBBED IN THE ACCESSIBLE CEILING SPACE ADJACENT TO THE PROJECT. COORDINATE EXACT STUB UP LOCATION ON SITE PRIOR TO ROUGH-IN.

> Partial Floor Plan -Power, Communications, Systems, Lighting

	No.	Description	Date	Date: 2023-10-19	Revision
		Issued for Tender	2023-10-19	Drn By: M.E.M., C.E.T.	$\wedge$
)				Chk By: E.S.C., P.ENG	<u> </u>
				Project Number:	
				231124	
				Drawing Number:	