

# APPENDIX A: DETAILS

ARCHITECTURAL DETAILS

# APPENDIX B: REFERENCE BOOKLET

STRUCTURAL DETAILS

TENDER AND BUILDING PERMIT

MAY 2021

# APPENDIX A: DETAILS

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# APPENDIX B: REFERENCE BOOKLET

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JASON LOWE ARCHITECT

77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

### TLDSB WASHROOM RENEWALS SUMMER 2021

Various

### TENDER AND BUILDING PERMIT

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### Table of Contents

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## DSK 00.1

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE	FF	FINISHED FLOOR	MECH	MECHANICAL	RESIL	RESILIENT	UNFIN	UNFINISHED
ADJ	ADJUSTABLE	FFE	FINISHED FLOOR ELEVATION	MEMB	MEMBRANE	REV	REVISION, REVISED	UNO	UNLESS NOTED OTHERWISE
AFF	ABOVE FINISHED FLOOR	FHC	FIRE HOSE CABINET	MEZZ	MEZZANINE	RFG	ROOFING	UR	URINAL
ALU	ALUMINUM	FHVC	FIRE HOSE VALVE CABINET	MEP	MECHANICAL, ELECTRICAL, PLUMBING	RF	RESILIENT FLOORING	US	UNDERSLAB
ANOD	ANODIZED	FIN	FINISH(ED)	MFR	MANUFACTURER	RH	RIGHT HAND	UTIL	UTILITY
		FIXT	FIXTURE	MH	MANHOLE	RM	ROOM		
B/B	BACK TO BACK	FLEX	FLEXIBLE	MIN	MINIMUM	RO	ROUGH OPENING	VB	VINYL BASE
BB	BULLETIN BOARD	FLR	FLOOR	MIRR	MIRROR(ED)	ROW	RIGHT OF WAY	VCT	VINYL COMPOSITE TILE
BCT	BABY CHANGE TABLE	FO	FINISHED OPENING	MISC	MISCELLANEOUS	RTF	RUBBER TILE FLOOR	VDR	VAPOUR DIFFUSION RETARDER
BD	BOARD	FP	FIRE PROTECTION	MKR BD	MARKER BOARD	RVL	REVEAL	VENT	VENTILATION
BLDG	BUILDING	FS	FRAME SIZE	MO	MASONRY OPENING	RUB	RUBBER	VERT	VERTICAL
BLKG	BLOCKING	FT	FOOT, FEET	MP	MID POINT	RWL	RAIN WATER LEADER	VEST	VESTIBULE
BM	BEAM	FTG	FOOTING	MTD	MOUNTED			VIF	VERIFY IN FIELD
BSMT	BASEMENT	FURN	FURNITURE	MTG	MEETING	S	SOUTH	VOL	VOLUME
		FURR	FURRING	MTL	METAL	SAB	SOUND ATTENUATION BATT	VNR	VENEER
				MULL	MULLION	SAN	SANITARY	VT	VINYL TILE
CG	CORNER GUARD			MVBL	MOVABLE	SC	SOLID CORE	VWC	VINYL WALL COVERING
CIP	CAST IN PLACE	GA	GUAGE			SCHED	SCHEDULE		
CJ	CONTROL JOINT	GALV	GALVANIZED	N	NORTH	SD	SOAP DISPENSER	W	WEST
CL	CENTRE LINE	GB	GRAB BAR	N/A	NOT APPLICABLE	SEC	SECURITY	W/	WITH
CLR	CLEAR	GEN	GENERAL	NIC	NOT IN CONTRACT	SECT	SECTION	W/O	WITHOUT
CMU	CONCRETE MASONRY UNIT	GL	GLASS	NO	NUMBER	SF	SQUARE FOOT, FEET	WC	WATER CLOSET, TOILET
CO	CLEANOUT	GWB	GYPSTUM WALL BOARD	NOM	NOMINAL	SGL	SINGLE	WD	WOOD
COL	COLUMN			NTS	NOT TO SCALE	SHR	SHOWER	WG	WALL GUARD
CONSTR	CONSTRUCTION	H	HIGH			SHT	SHEET	WH	WATER HEATER
CONT	CONTINUOUS	HB	HOSE BIBB	O/O	OUT TO OUT	SIGN	SIGNAGE	WIN	WINDOW
COORD	COORDINATE	HDF	HIGH DENSITY FIBREBOARD	OA	OVERALL	SIM	SIMILAR	WM	WIRE MESH
CORR	CORRIDOR	HDWR	HARDWARE	OC	ON CENTRE	SND	SANITARY NAPKIN DISPENSER	WP	WATERPROOFING
CPT	CARPET	HM	HOLLOW METAL	OD	OUTSIDE DIAMETER	SPDL	SPANDREL	WPSF	WELDED PRESSED STEEL FRAME
CT	CERAMIC TILE	HO	HOLD OPEN	OF	OUTSIDE FACE	SPEC	SPECIFICATION	WT	WEIGHT
CTR	CENTRE	HORIZ	HORIZONTAL	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED	SPKR	SPEAKER	WWF	WELDED WIRE FABRIC
CU	CUBIC	HP	HIGH POINT	OFOI	OWNER FURNISHED-OWNER INSTALLED	SPKLR	SPRINKLER	WWW	WELDED WIRE MESH
		HR	HOOR	OFD	OVERFLOW DRAIN	SQ	SQUARE		
D	DEEP, DEPTH	HT	HEIGHT	OFF	OFFICE	SS	STAINLESS STEEL	YD	YARD
DBL	DOUBLE	HTG	HEATING	OH	OVERHEAD	SSM	SOLID SURFACE MATERIAL		
DEG	DEGREE	HTR	HEATER	OPH	OPPOSITE HAND	STA	STATION	ZN	ZINC
DEMO	DEMOLISH, DEMOLITION	HVAC	HEATING, VENTILATION, AIR CONDITIONING	OPNG	OPENING	STC	SOUND TRANSMISSION CLASS		
DEPT	DEPARTMENT	HW	HOT WATER	OPP	OPPOSITE	STD	STANDARD		
DET	DETAIL	HYD	HYDRANT	OTB	OPEN TO BELOW	STL	STEEL		
DF	DRINKING FOUNTAIN					STN	STONE		
DIA	DIAMETER	ID	INSIDE DIAMETER	PA	PUBLIC ADDRESS	STOR	STORAGE		
DIAG	DIAGONAL	IN	INCH, INCHES	PBD	PARTICLE BOARD	STP	STANDPIPE		
DIFF	DIFFUSER	INCAND	INCANDESCENT	PBO	PROVIDED BY OWNER	STRUCT	STRUCTURAL		
DIM	DIMENSION	INCL	INCLUDED, INCLUDING	PC	PRE-CAST	SUSP	SUSPENDED		
DISP	DISPENSER	INSUL	INSULATION	PCARB	POLYCARBONATE	SV	SHEET VINYL		
DIV	DIVISION	INT	INTERIOR	PERF	PERFORATED	SYM	SYMMETRICAL		
DO	DOOR OPENING	INV	INVERT	PERP	PERPENDICULAR				
DWG	DRAWING			PGBD	PEGBOARD	T	TREAD		
DWV	DRAINAGE, WASTE AND VENT	JAN	JANITOR	PL	PLATE	T/O	TOP OF		
		JT	JOINT	PLAM	PLASTIC LAMINATE	T/B	TOP AND BOTTOM		
				PLYWD	PLYWOOD	T&G	TONGUE AND GROOVE		
E	EAST	KD	KNOCK DOWN	PME	PAINT TO MATCH EXISTING	TD	TOWEL DISPENSER		
EA	EACH	KO	KNOCK OUT	PNL	PANEL	TEL	TELEPHONE		
ELEC	ELECTRICAL	KPL	KICK PLATE	POL	POLISHED	TEMP	TEMPORARY		
EMER	EMERGENCY			PR	PAIR	TERR	TERRAZZO		
ENCL	ENCLOSURE	L	LONG, LENGTH	PREF	PREFINISHED	THK	THICK		
EO	ELECTRICAL OUTLET	LAM	LAMINATED	PRKG	PARKING	THRLD	THRESHOLD		
EOS	EDGE OF SLAB	LAV	LAVATORY	PROJ	PROJECT(ED)	TI	TENANT IMPROVEMENT		
EP	ELECTRICAL PANEL	LB(S)	POUND(S)	PROP	PROPERTY	TKBD	TACKBOARD		
ETC	ETCETERA	LF	LINEAR FOOT, FEET	PSF	PRESSED STEEL FRAME	TOC	TOP OF CONCRETE		
E/W	EACH WAY	LH	LEFT HAND	PSI	POUNDS PER SQUARE INCH	TOP	TOP OF PARAPET		
EXC	EXCAVATION, EXCAVATE	LKBL	LOCKABLE	PT	PAINT(ED)	TOR	TOP OF ROOF		
EXH	EXHAUST	LKR	LOCKER	PTD	PAPER TOWEL DISPENSER	TOS	TOP OF STEEL		
EXIST	EXISTING	LLH	LONG LEG HORIZONTAL	PTN	PARTITION	TMPD	TEMPERED		
EXP	EXPANSION	LLV	LONG LEG VERTICAL	PVG	PAVING	TOPO	TOPOGRAPHIC		
EXPO	EXPOSED	LP	LOW POINT			TPD	TOILET PAPER DISPENSER		
EXT	EXTERIOR, EXTERNAL	LTG	LIGHTING	QT	QUARRY TILE	TRTD	TREATED		
		LVL	LEVEL	QTY	QUANTITY	TV	TELEVISION		
F/	FACE OF	LVR	LOUVRE			TWS	TACTILE WARNING STRIP		
F/F	FACE TO FACE	LWC	LIGHT WEIGHT CONCRETE	R	THERMAL RESISTANCE	TYP	TYPICAL		
FA	FIRE ALARM			RAD	RADIUS				
FAAP	FIRE ALARM ANNUNCIATOR PANEL	m	METRE	RB	RUBBER BASE	U	HEAT TRANSFER COEFFICIENT		
FAB	FABRIC	mm	MILLIMETRE	RCP	REFLECTED CEILING PLAN	UC	UNDER CABINET		
FABR	FABRICATE(ED)	MAINT	MAINTENANCE	RD	ROOF DRAIN	UCL	UNDER CABINET LIGHTING		
FACP	FIRE ALARM CONTROL PANEL	MAS	MASONRY	REC	RECESSED	UGND	UNDERGROUND		
FC	FIRE CABINET	MATL	MATERIAL	RECP	RECEPTACLE	UH	UNIT HEATER		
FD	FLOOR DRAIN	MAX	MAXIMUM	REF	REFERENCE	ULC	UNDERWRITER'S LABORATORIES CANADA		
FDN	FOUNDATION	MDF	MEDIUM DENSITY FIBREBOARD	REINF	REINFORCED	UNEXC	UNEXCAVATED		
FE	FIRE EXTINGUISHER			REQD	REQUIRED				
FEC	FIRE EXTINGUISHER CABINET								



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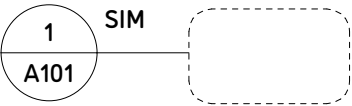
Abbreviations

Sheet

DSK 01.1

GRAPHIC SYMBOL LEGEND

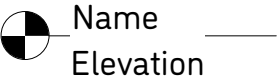
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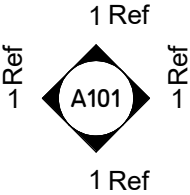
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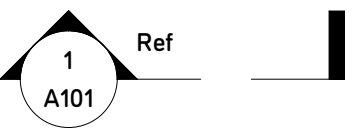
FLOOR LEVEL/ELEVATION



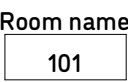
INTERIOR ELEVATION REFERENCE



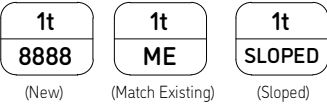
SECTION REFERENCE



ROOM IDENTIFICATION



CEILING FINISH REFERENCES



DOOR IDENTIFICATION



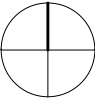
CENTRE LINE



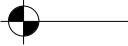
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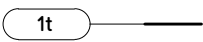
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SPOT ELEVATION



WALL/PARTITION TAG



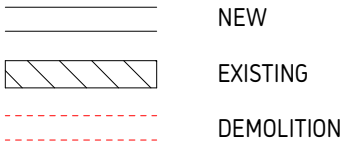
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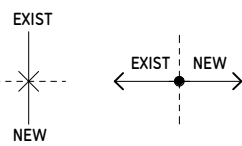
BREAKLINE



WALL CONSTRUCTION



NEW-EXISTING TRANSITION LINE



KEYNOTE TAG



TEXT ANNOTATION



WORKING/LAYOUT POINT



MATERIALS



CONCRETE BLOCK



WOOD



MASONRY



HORIZONTAL GRATING



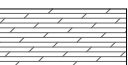
VERTICAL GRATING



STRUCTURAL CONCRETE



EXISTING SOILS



PLYWOOD



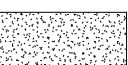
EXISTING CONSTRUCTION TO REMAIN



APPROXIMATE LINE OF CONCRETE SLAB CUTTING



ALUMINUM IN SECTION



GROUT/GYPSUM BOARD



STEEL IN SECTION



GRAVEL



RIGID INSULATION



DEMOLISHED CONSTRUCTION



TILE OR STONE IN SECTION

PLAN



DOOR ACTUATOR BUTTON (DAB)



PUSH TO LOCK BUTTON (PL)



EMERGENCY CALL BUTTON (ECB)



ASSISTANCE REQUIRED LIGHTED SIGN (AR)



FA STROBE (FAS)

REFLECTED CEILING PLAN



FA SMOKE DETECTOR (SD)



OCCUPANCY SENSOR (OS)



EMERGENCY LIGHT REMOTE DOUBLE HEAD (BUR)



EMERGENCY LIGHT BATTERY UNIT DOUBLE HEAD (BU)



EMERGENCY LIGHT REMOTE SINGLE HEAD (BUR)



PA SPEAKER (PA)

ELEVATION



DECORA STYLE SWITCH



RECEPTACLE



SWITCH



DATA/COMMUNICATIONS



BLANK COVER PLATE



HIDDEN RECEPTACLE



DOOR ACTUATOR BUTTON (DAB)



PUSH TO LOCK BUTTON (PL)



EMERGENCY CALL BUTTON (ECB)



EMERGENCY CALL LIGHT (ECL)



EMERGENCY CALL SIGN (ECS)

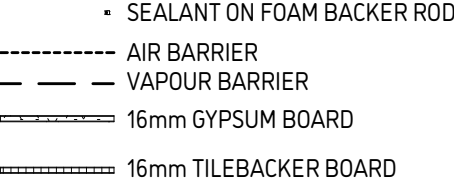


ASSISTANCE REQUIRED LIGHTED SIGN (AR)



FA STROBE

DETAIL



TLDSB WASHROOM  
RENEWALS SUMMER  
2021

TENDER AND BUILDING  
PERMIT

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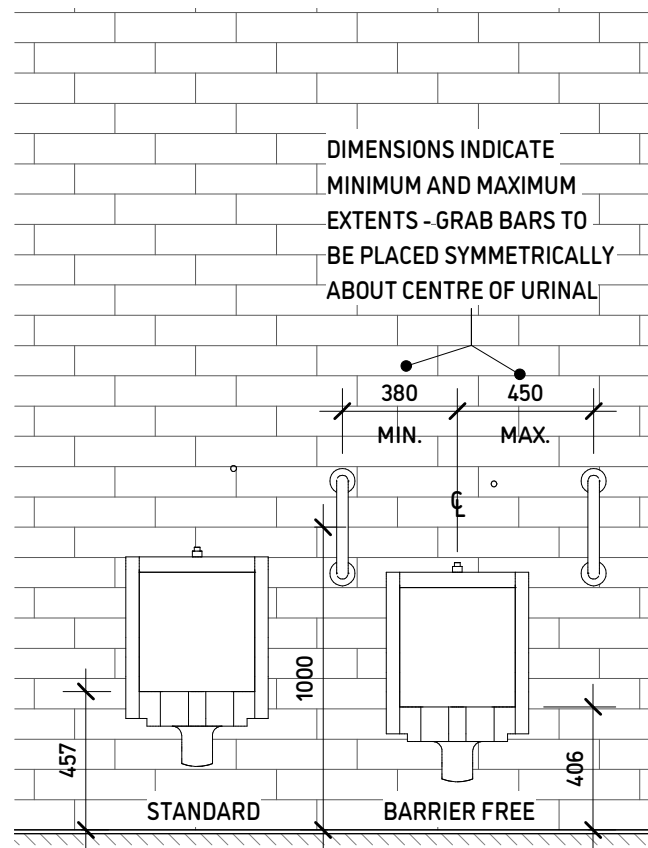
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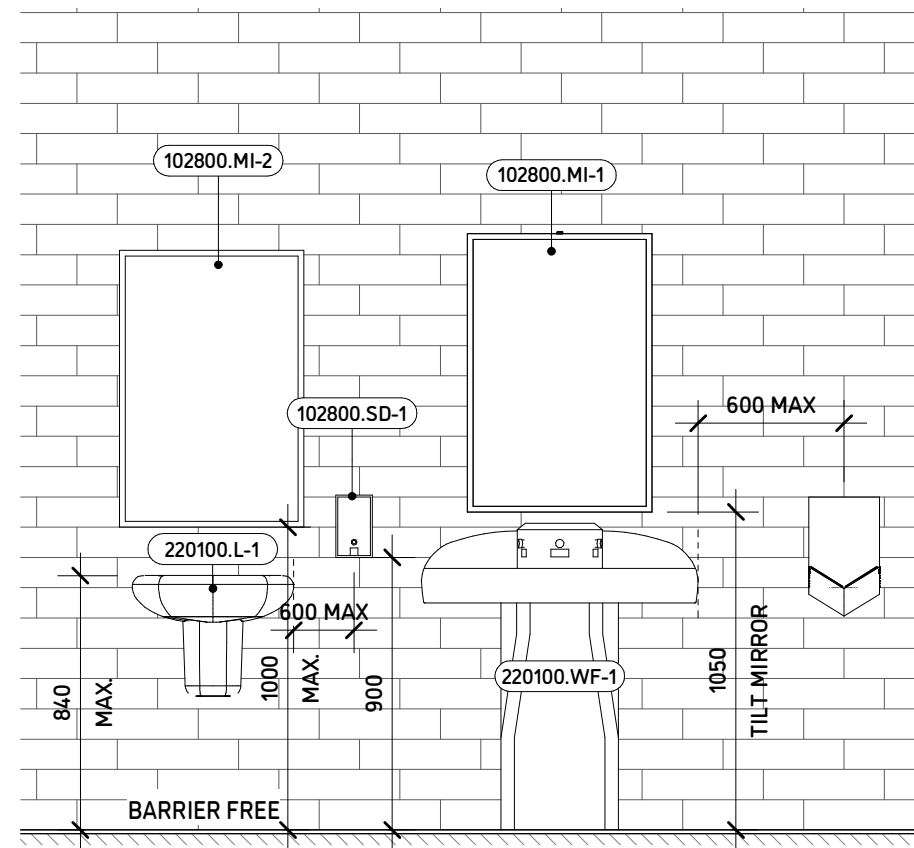
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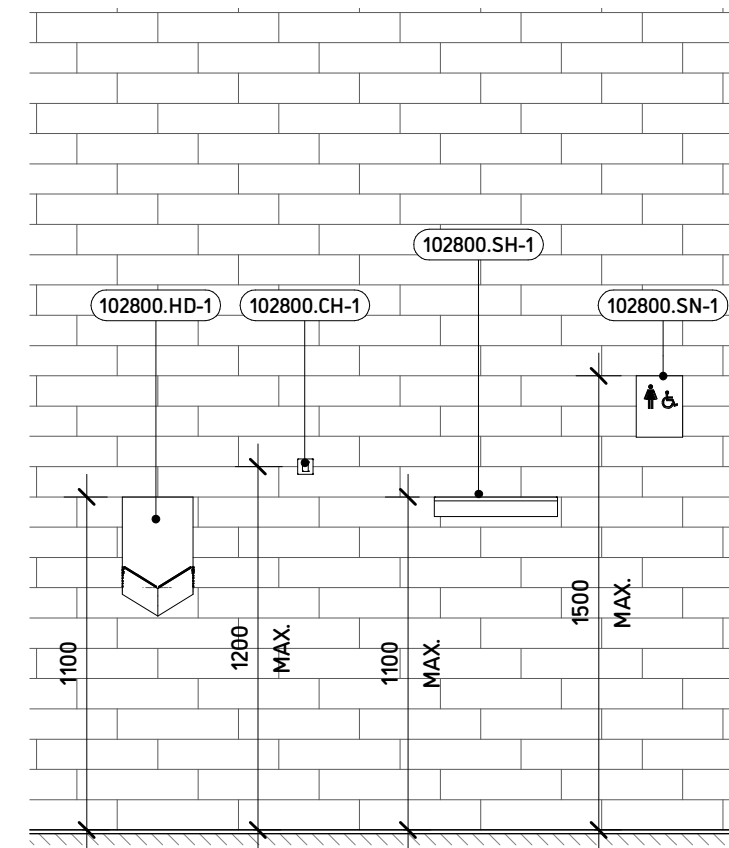
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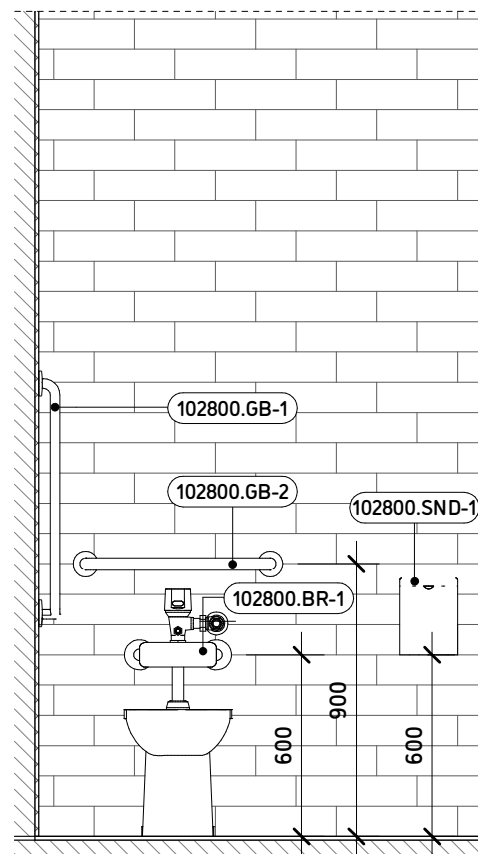
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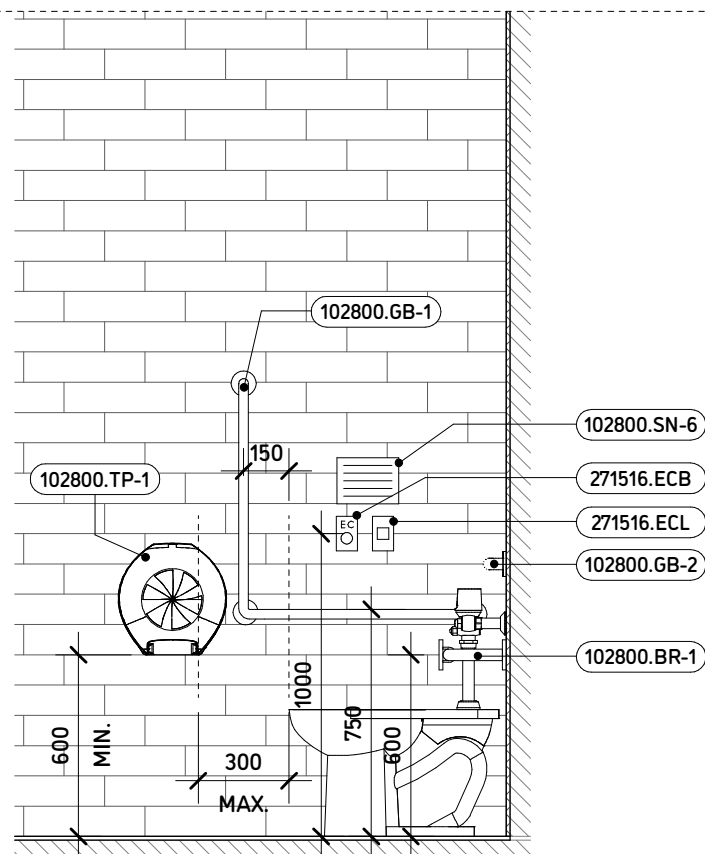
2 Lavatory and Washfountains  
1: 25



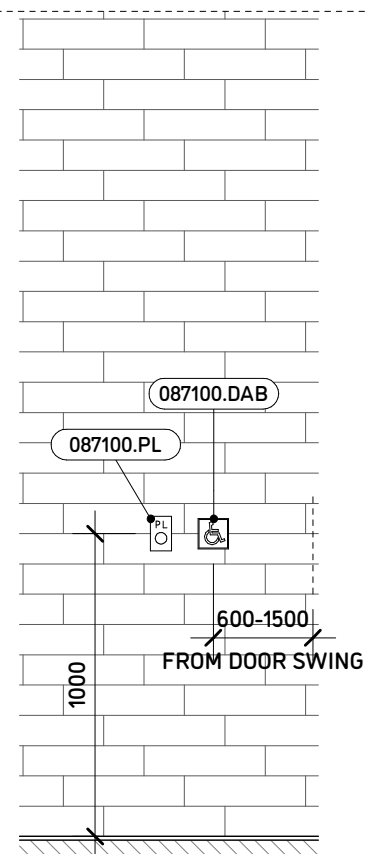
3 Washroom Accessories  
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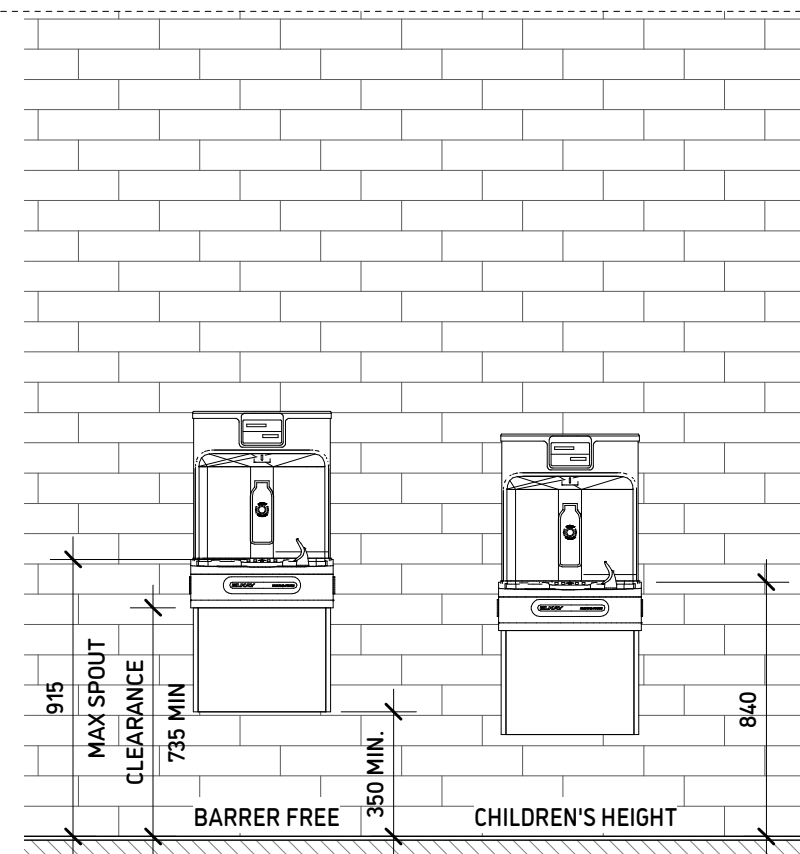
4 B/F Toilet and Accessories  
1: 25



5 Door Controls  
1: 25



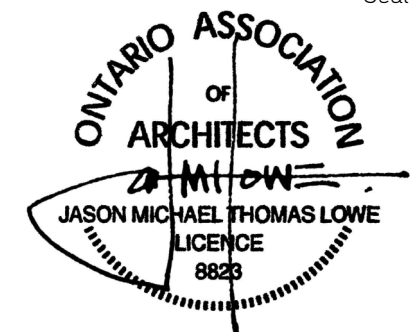
6 Drinking Fountains  
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**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various  
**TENDER AND BUILDING  
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MAY 2021

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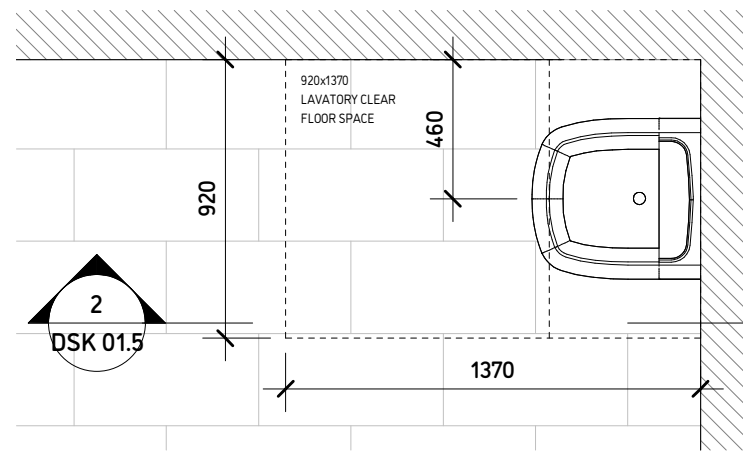
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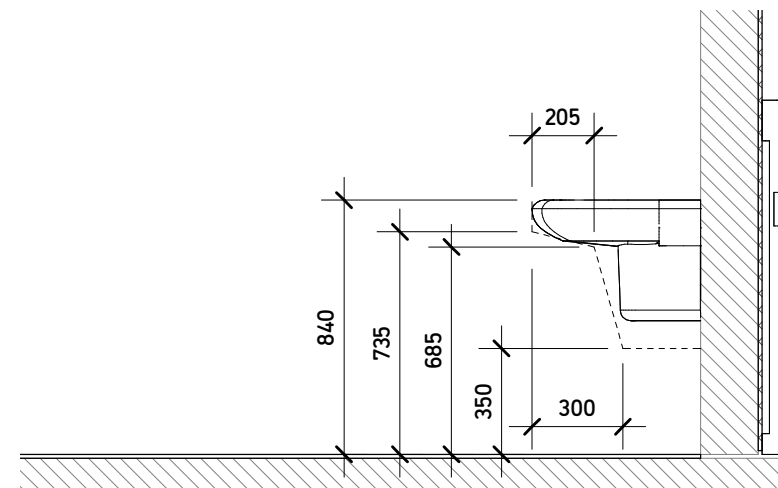
Title  
**Mounting  
Heights**

Sheet

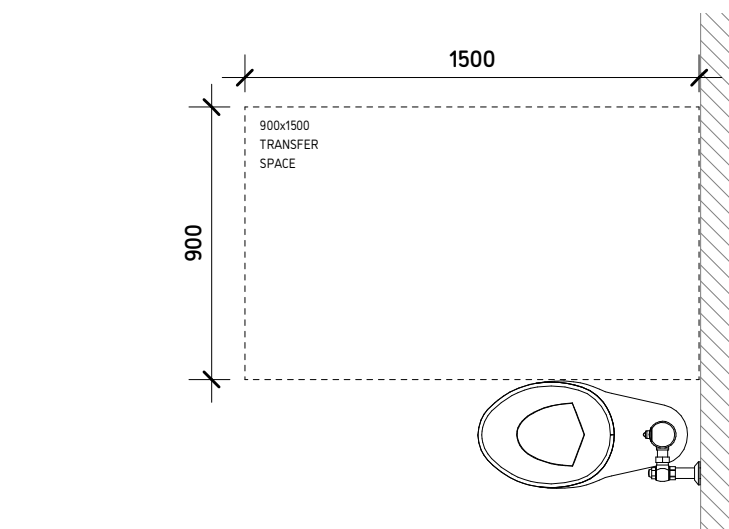
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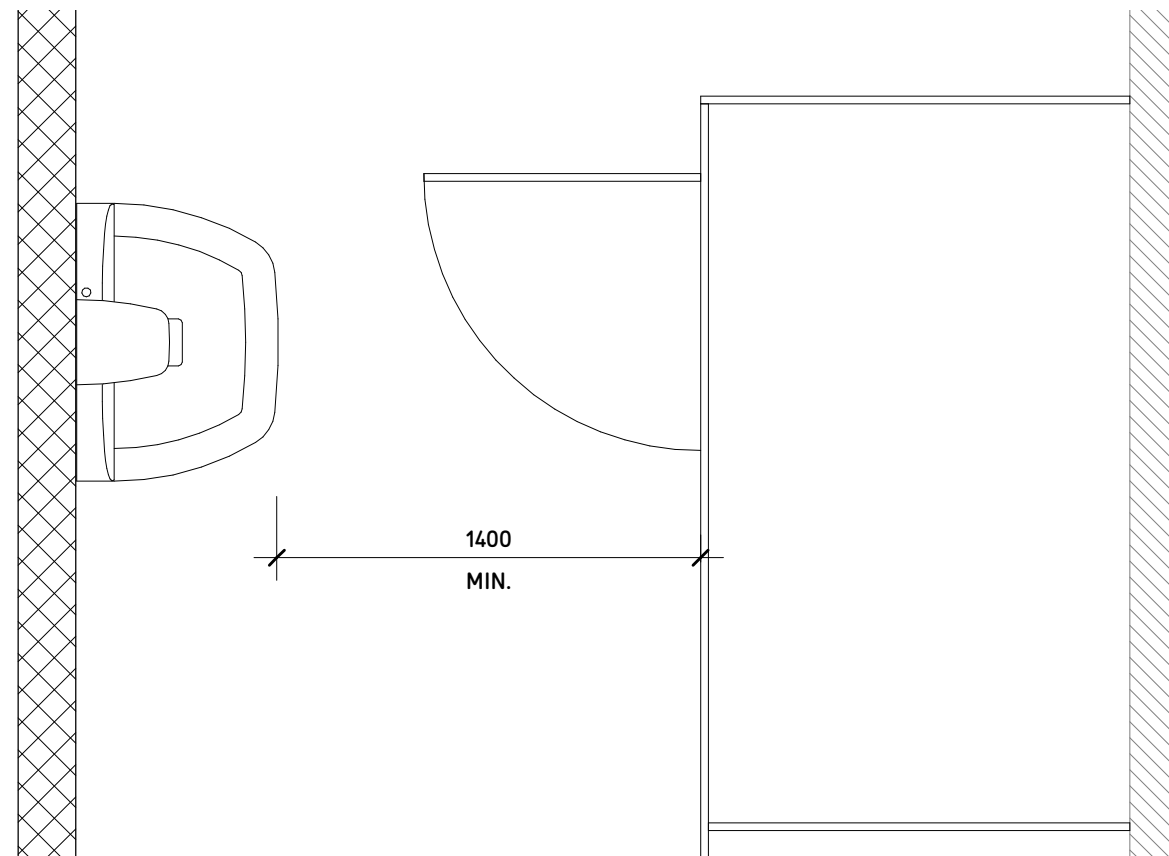
**1** Lavatory Clearance  
1:25



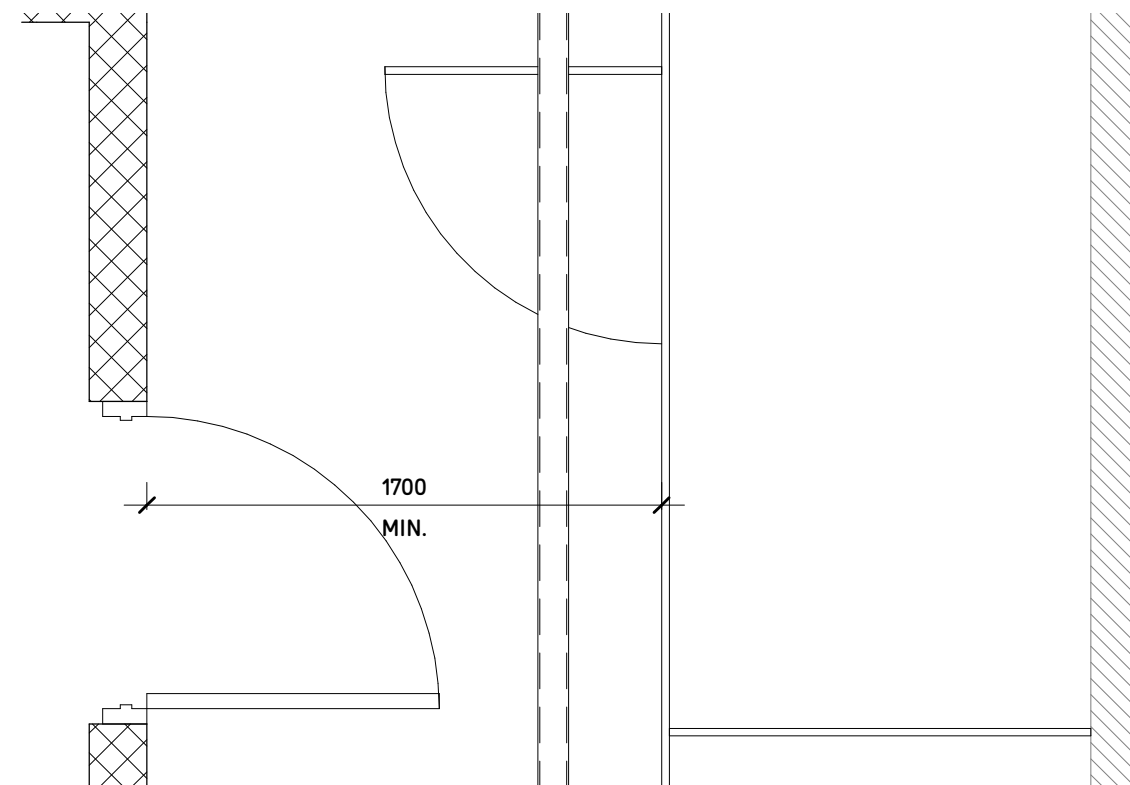
**2** Lavatory Wheelchair Clearances  
1:25



**3** Toilet Transfer Space  
1:25



**4** Stall Clearance to Fixture  
1:25



**5** Stall Clearance to Inswing Door  
1:25

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

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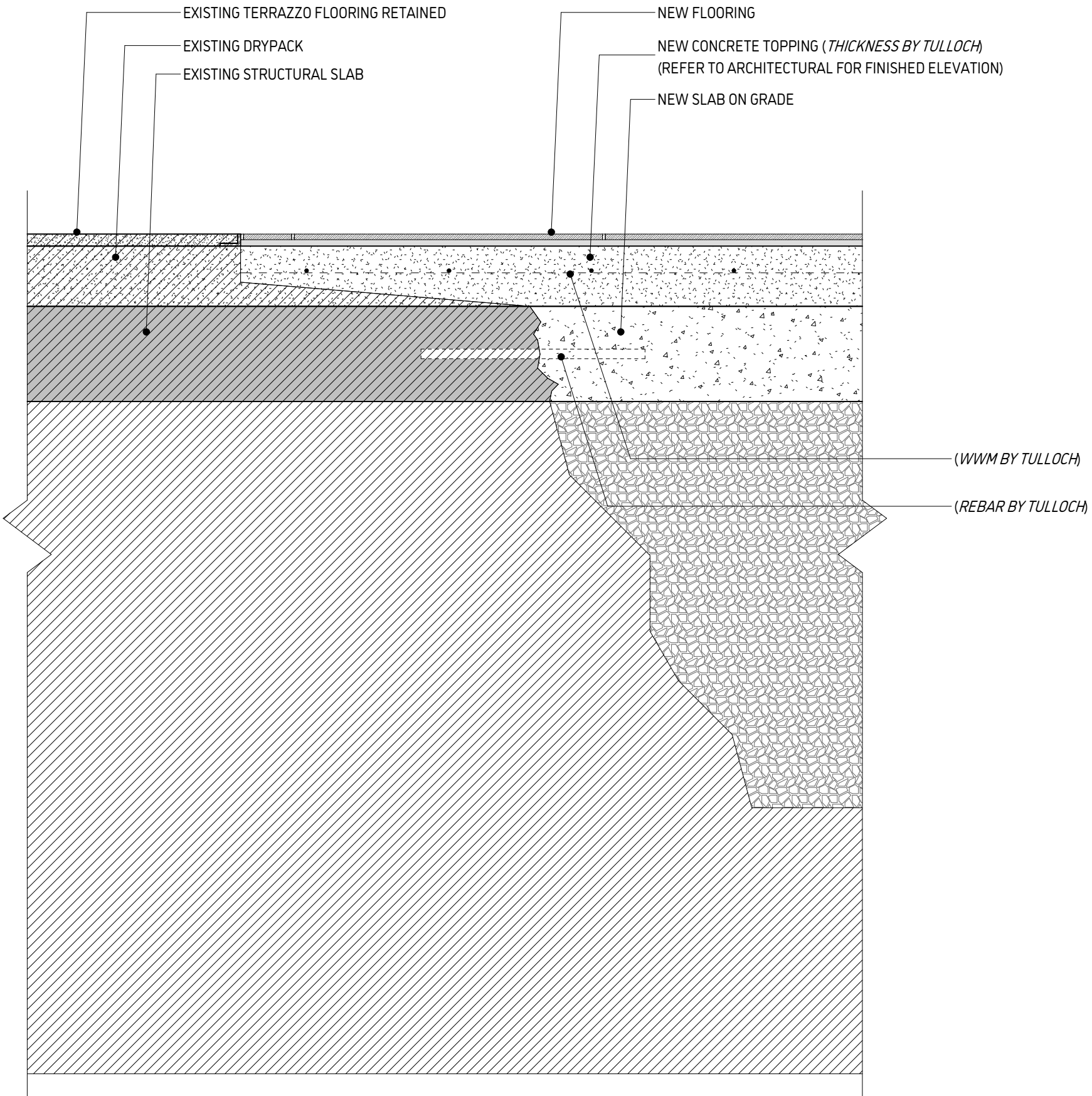
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Title  
**Code Diagrams**

Sheet

**DSK 01.5**





- TULLOCH TO PROVIDE:*
- 1. MINIMUM TOPPING THICKNESS
  - 2. SURFACE PREP OF EXISTING SLAB
  - 3. CONCRETE MIX DESIGN - NEW SLAB AND TOPPING
  - 4. POUR SEQUENCING (NEW SLAB, TOPPING)
  - 5. MESH AND REBAR REQUIREMENTS
  - 6. CONSTRUCTION, SAWCUT, ISOLATION JOINT REQUIREMENTS

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

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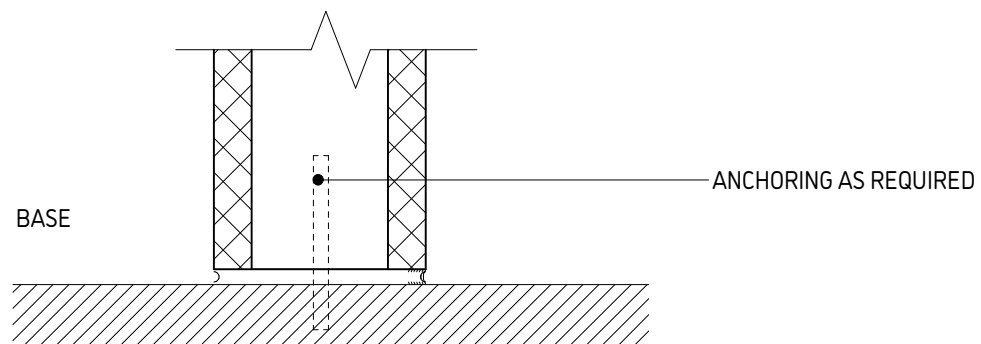
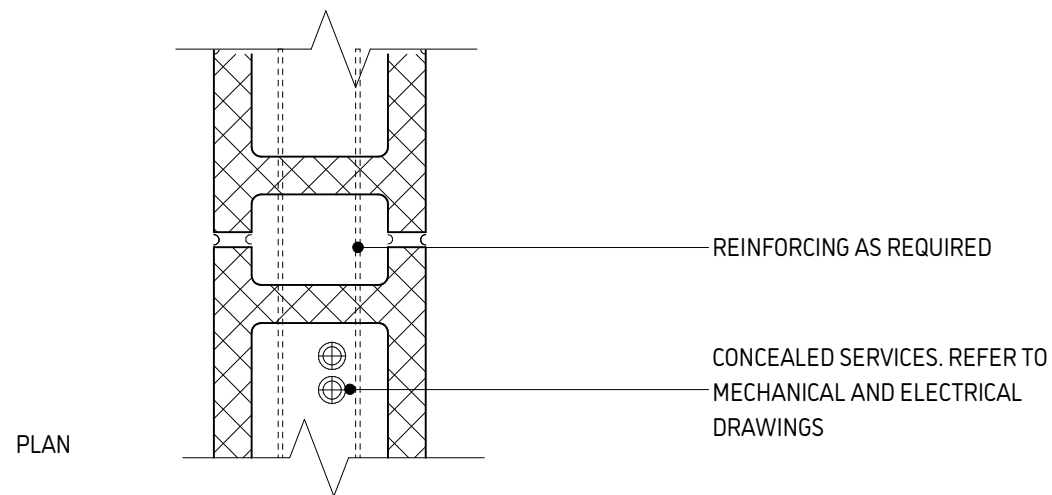
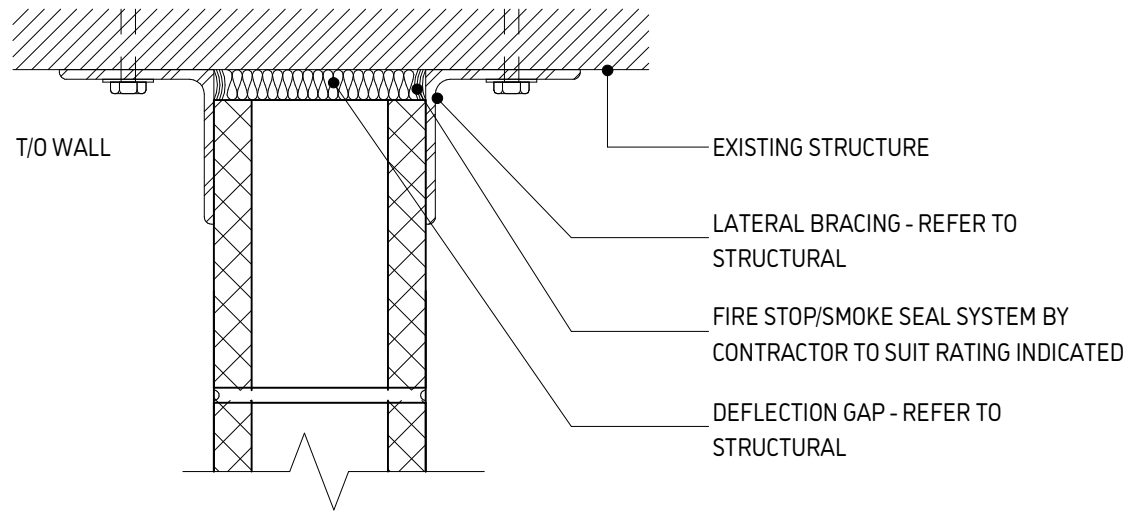
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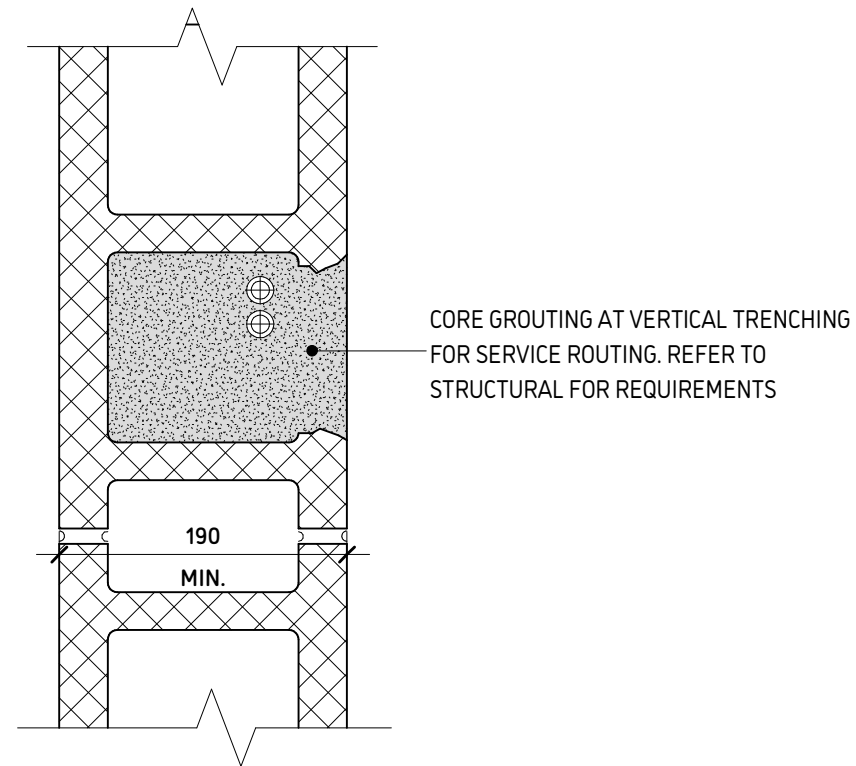
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TYPE: CB90, CB140, CB190

# 1 CMU Partitions

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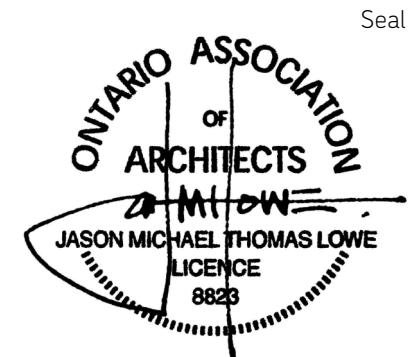


## 2 CMU Vertical Trenching

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### TLDSB WASHROOM RENEWALS SUMMER 2021

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**TENDER AND BUILDING  
PERMIT**  
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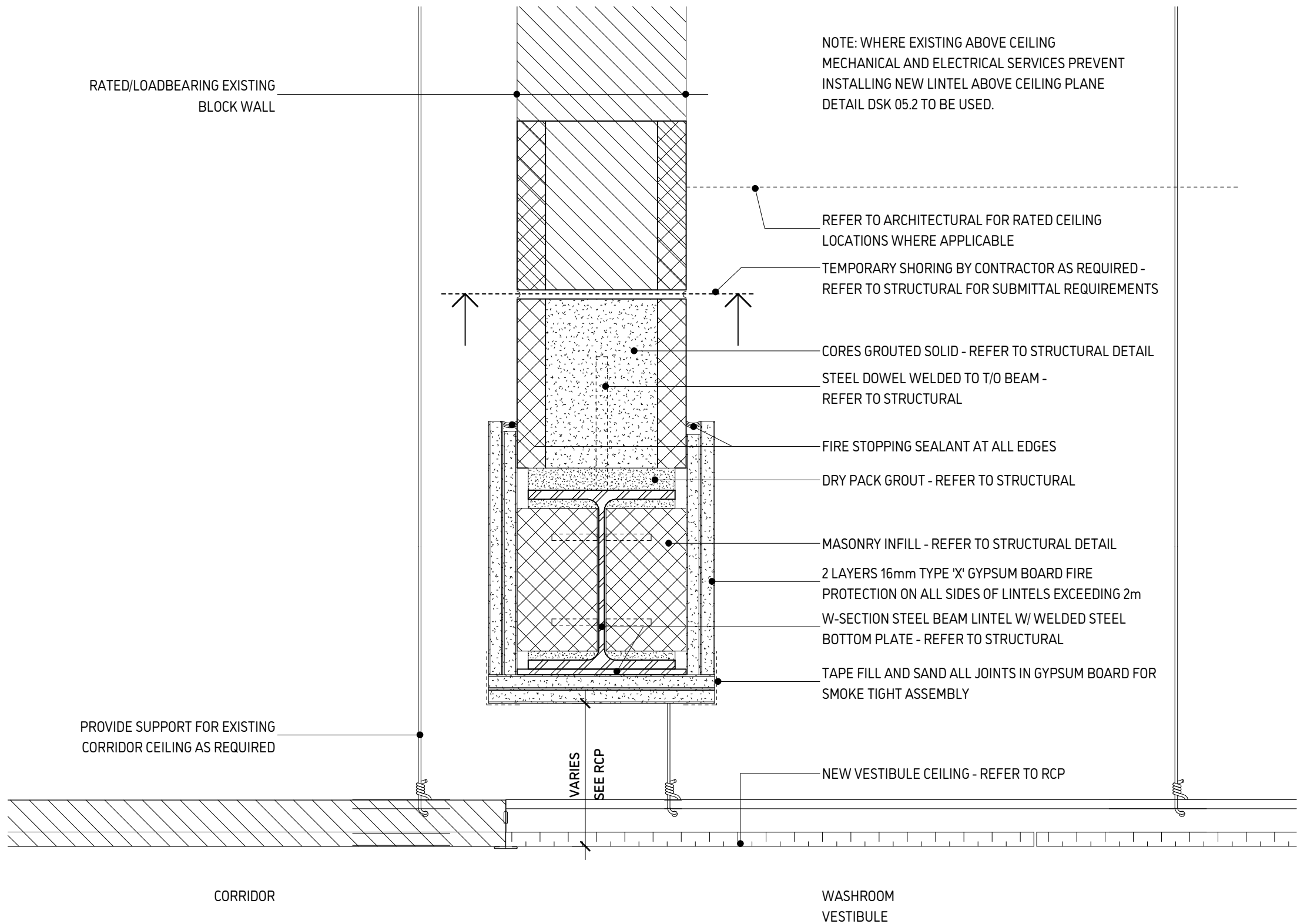
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### Concrete Block Partitions

Sheet

## DSK 04.1





1 Section Detail Corridor Lintel - Above Ceiling Condition  
1:5

**TLDSB WASHROOM  
RENEWALS SUMMER  
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Various  
**TENDER AND BUILDING  
PERMIT**

MAY 2021

Seal



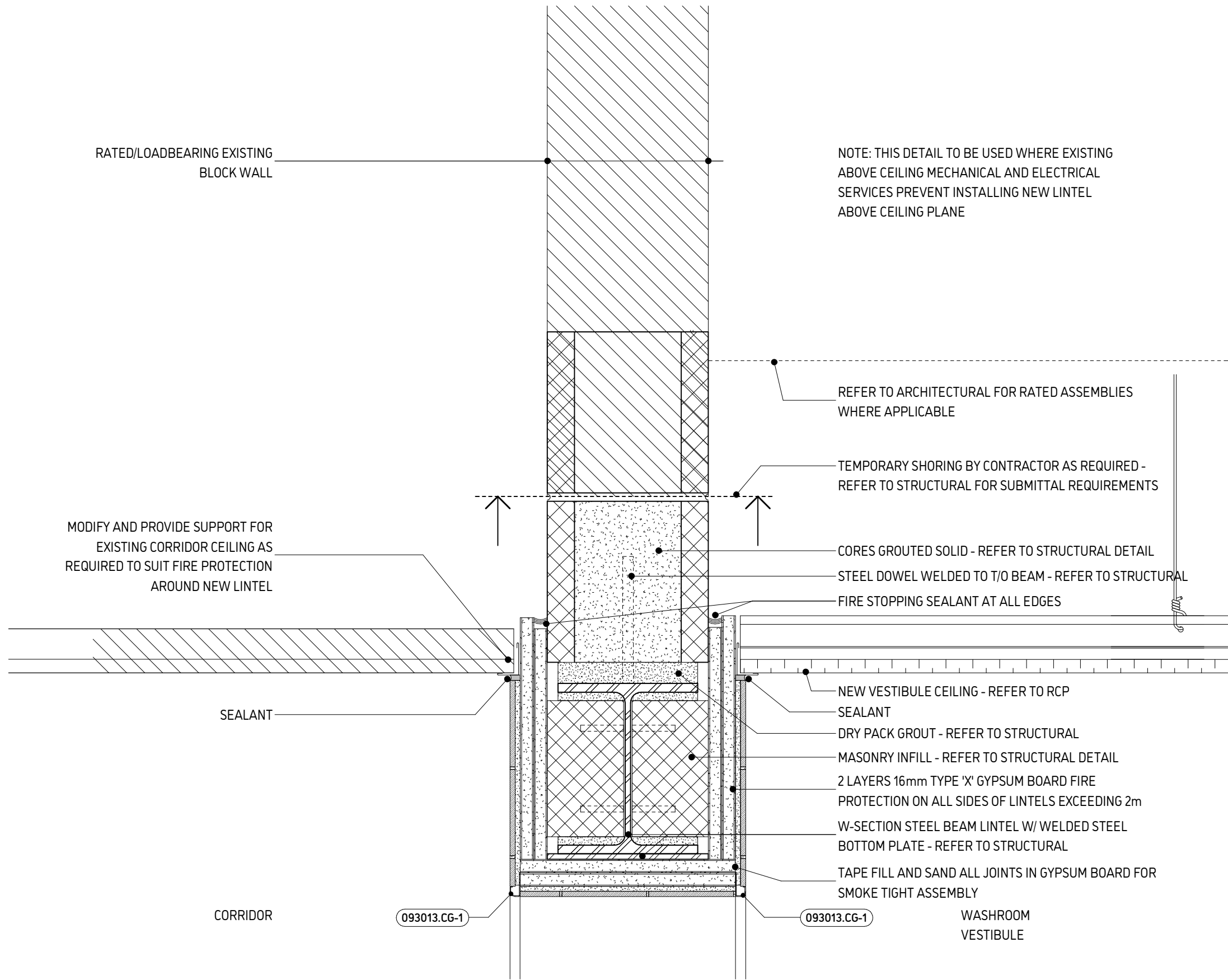
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PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: JLA

Revisions

Title  
**Corridor Lintel**

Sheet

**DSK 05.1**



1 Section Detail Corridor Lintel - Below Ceiling Condition  
1:5

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various  
**TENDER AND BUILDING  
PERMIT**  
MAY 2021

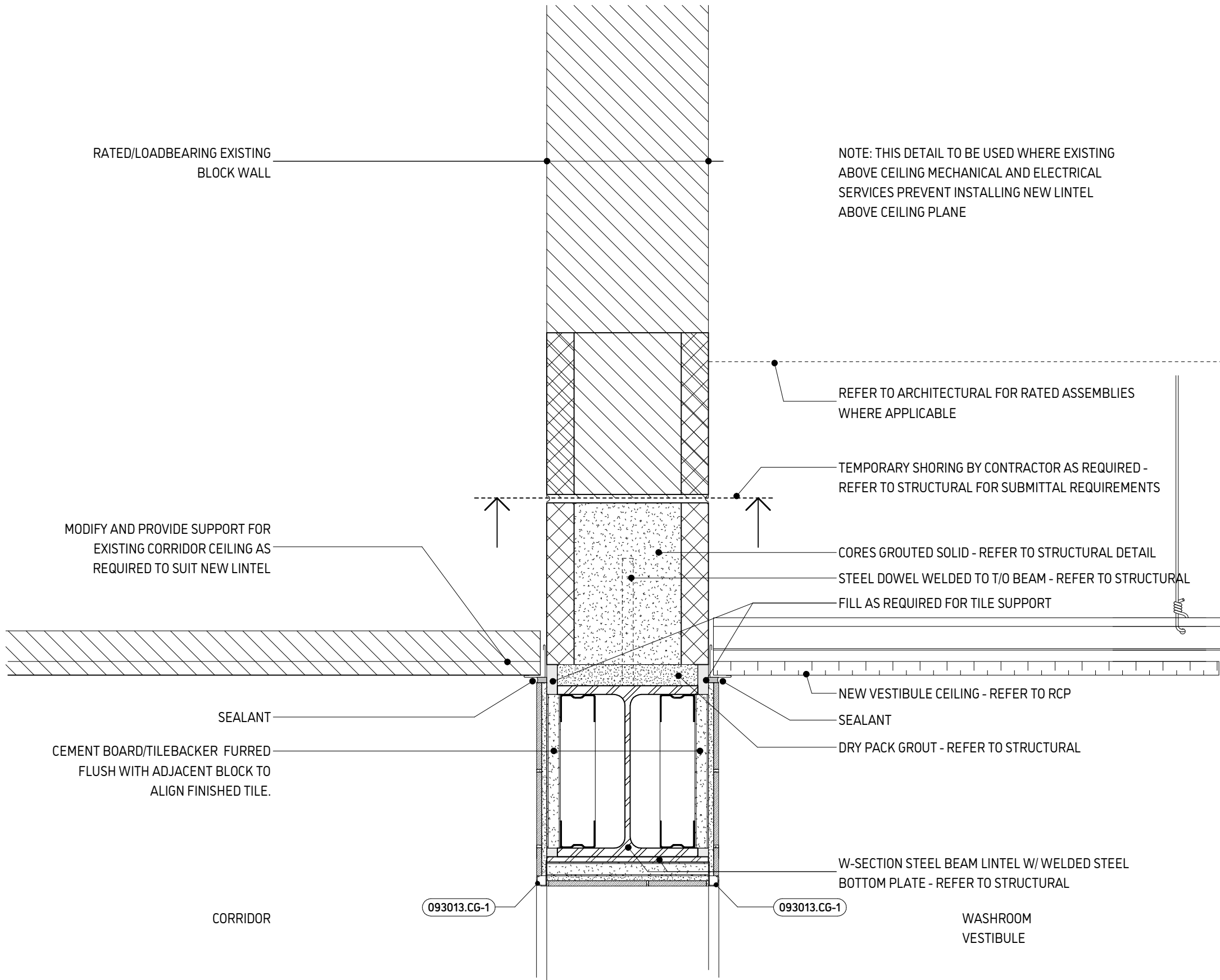


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PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: JLA

Revisions

Title  
**Corridor Lintel**

Sheet



1

Section Detail Corridor Lintel - Below Ceiling Less than 2m

1:5



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77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

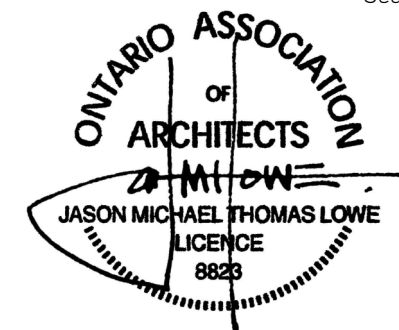
TLDSB WASHROOM  
RENEWALS SUMMER  
2021

Various

TENDER AND BUILDING  
PERMIT

MAY 2021

Seal



DATE: 5/17/2021 11:55:48 AM

PROJECT NO: TLDSB 2021

DRAWN: JMTL

CHECKED: Checker

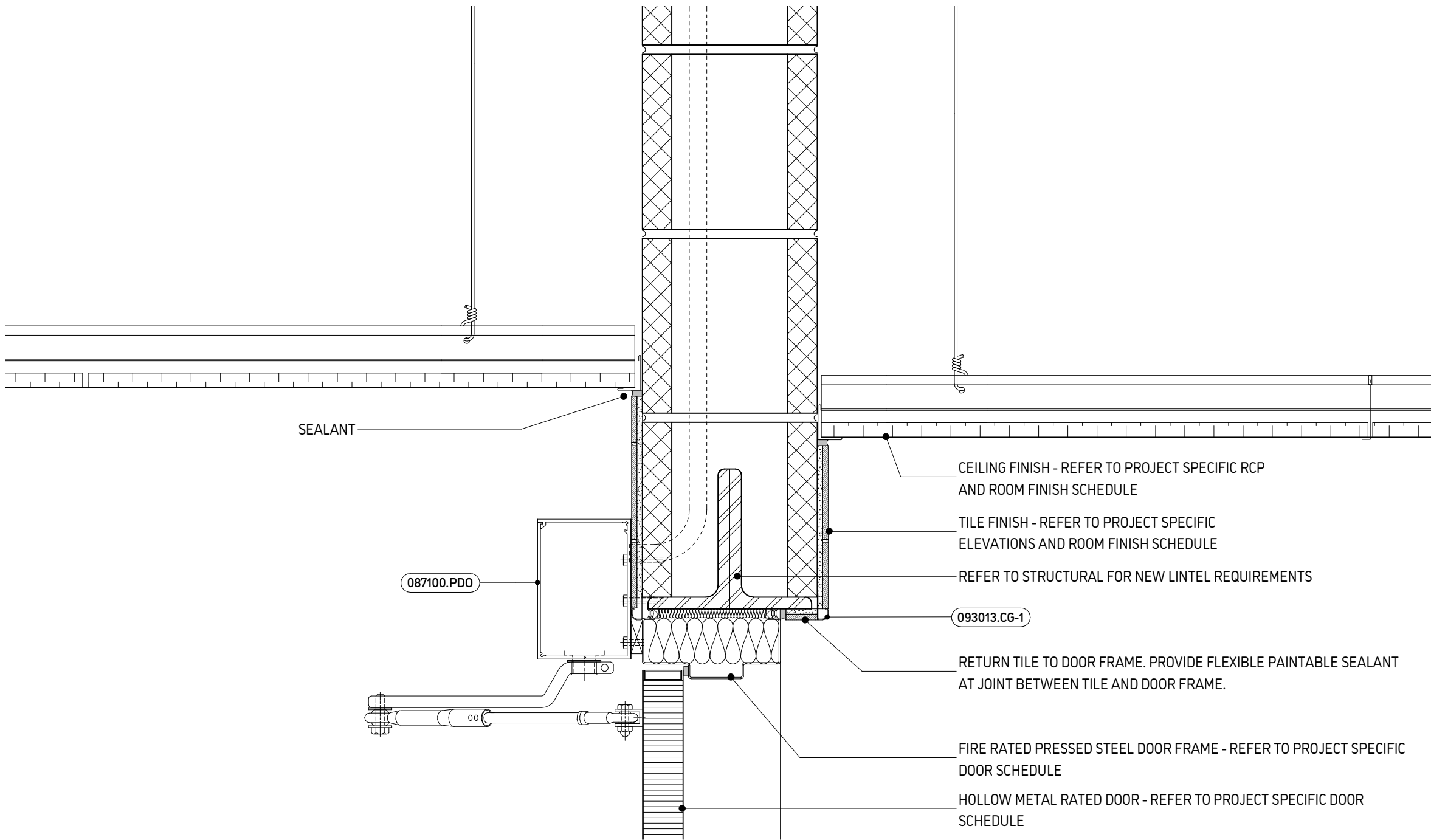
Revisions

Title

Corridor Lintel  
Below Ceiling

Sheet

DSK 05.2A



1 Section Detail - Typical Door Head  
1:5



JASON LOWE ARCHITECT

77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

TLDSB WASHROOM  
RENEWALS SUMMER  
2021

Various

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PERMIT

MAY 2021

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DATE: 5/17/2021 11:55:48 AM  
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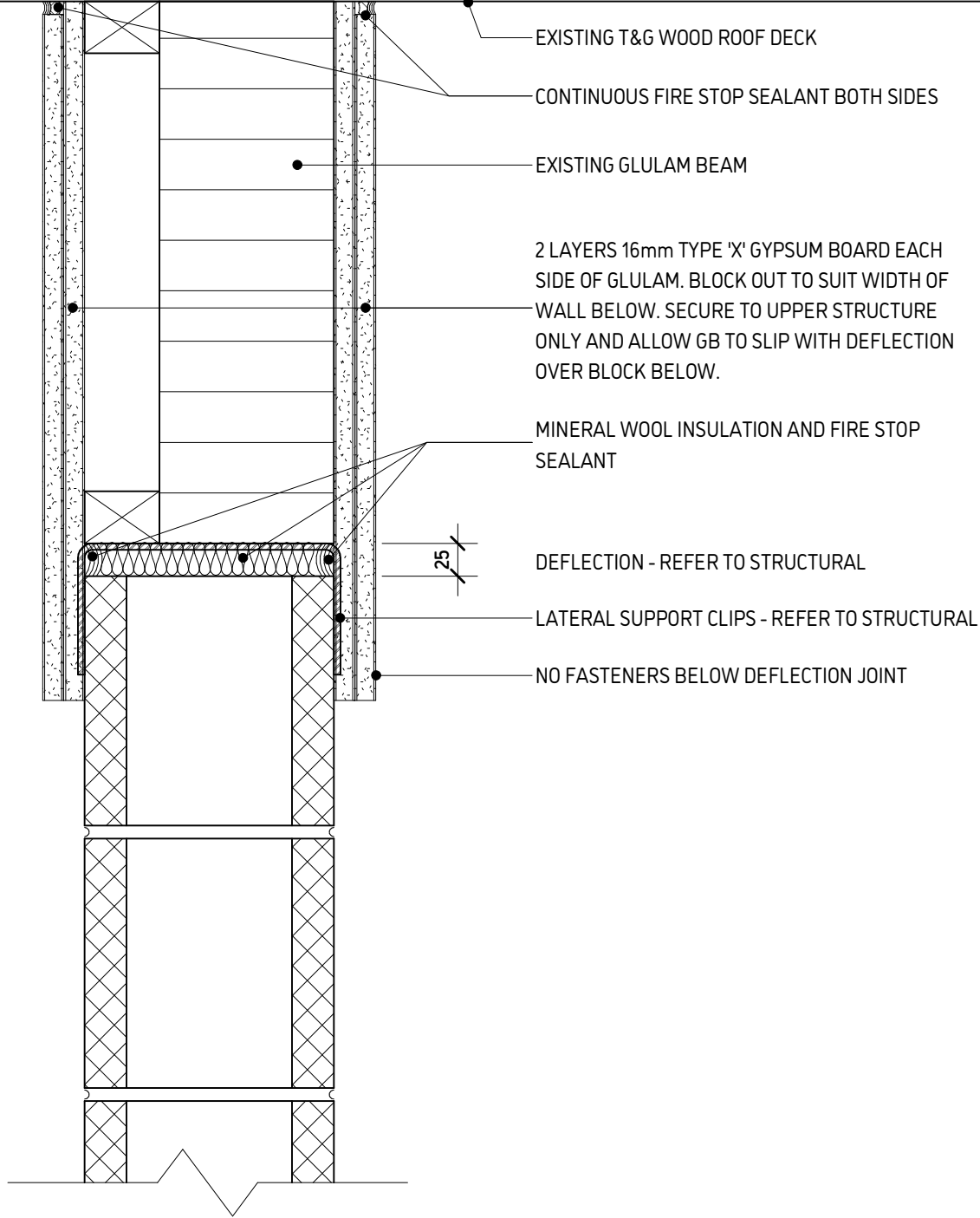
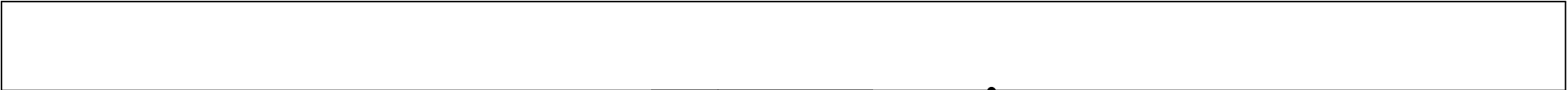
Revisions

Title

Section Detail  
Typical Door  
Head

Sheet

DSK 05.3



1

Block Wall at Glulam Fire Separation

1:5



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77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various  
**TENDER AND BUILDING  
PERMIT**

MAY 2021

Seal

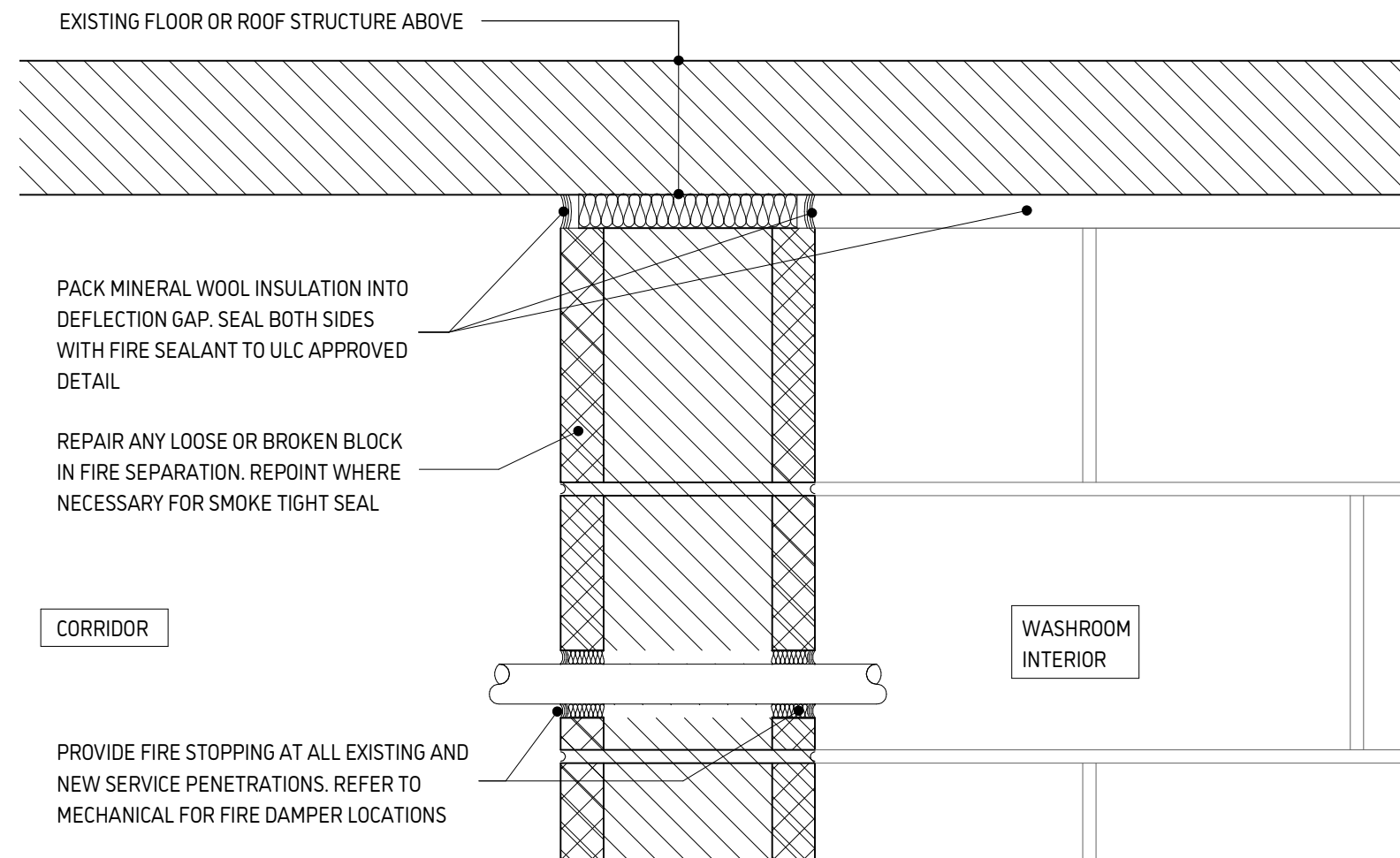
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PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: Checker

Revisions

Title  
**Block at Top of  
Wall - Glulam**

Sheet

**DSK 05.4**



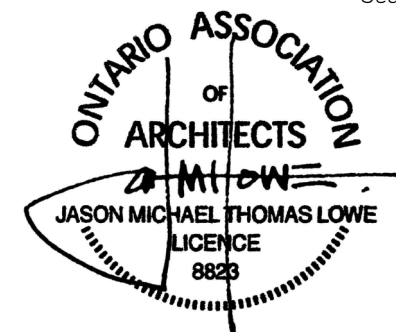
1 Firestopping Head of Wall  
1:5

TLDSB WASHROOM  
RENEWALS SUMMER  
2021

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MAY 2021

Seal



DATE: 5/17/2021 11:55:49 AM  
PROJECT NO: TLDSB 2021  
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CHECKED: JLA

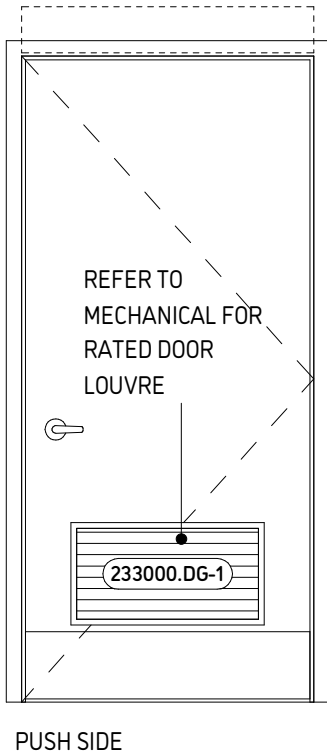
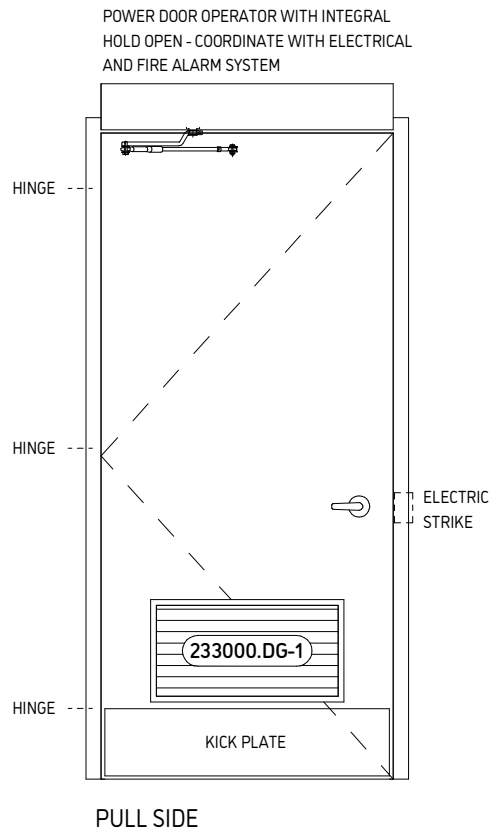
Revisions

Section Detail  
Head of CMU  
Wall

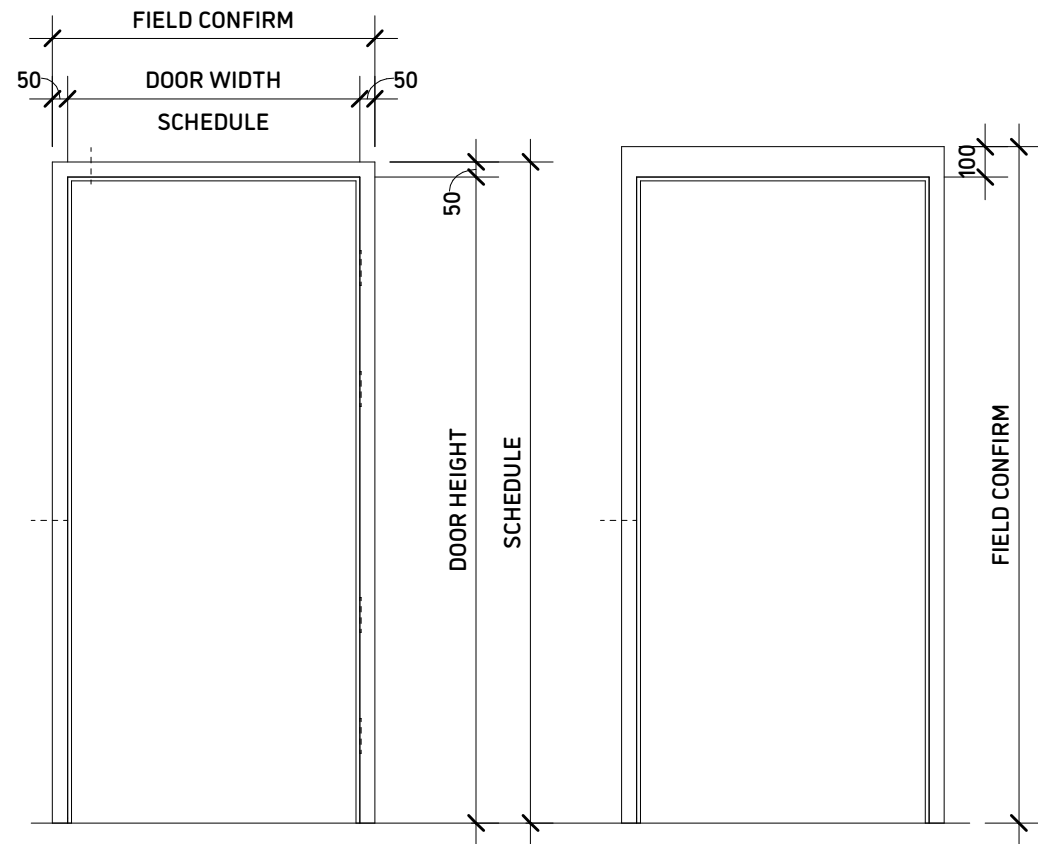
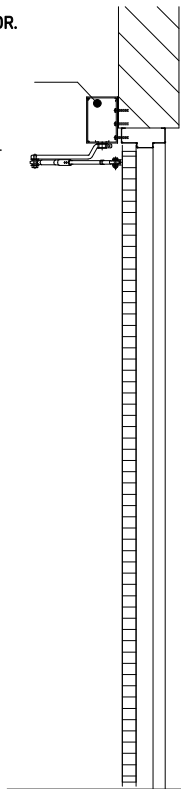
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DSK 07.1





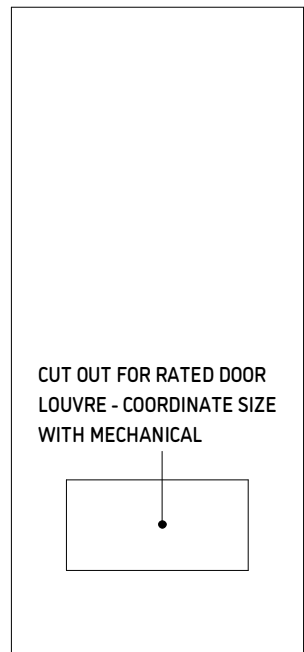
POWER DOOR OPERATOR. COORDINATE POWER SUPPLY AND DOOR CONTROLS WITH LINTEL INSTALL TO ENSURE NO SURFACE MOUNT WIRES.



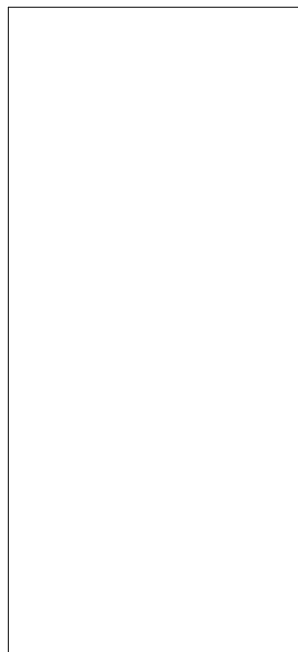
F1 - WELDED PRESSED STEEL FRAME

F2 - WELDED PRESSED STEEL FRAME

REFER TO SECTION 08 71 00 FOR HARDWARE REQUIREMENTS FOR DOOR PREPARATION



D1

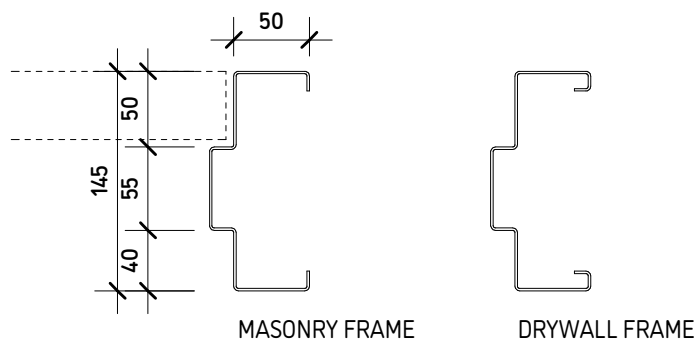


D2

1

## Door Frames

1 : 25



2

## Door Frame Profiles

1 : 5

### TLDSB WASHROOM RENEWALS SUMMER 2021

Various

### TENDER AND BUILDING PERMIT

MAY 2021

Seal



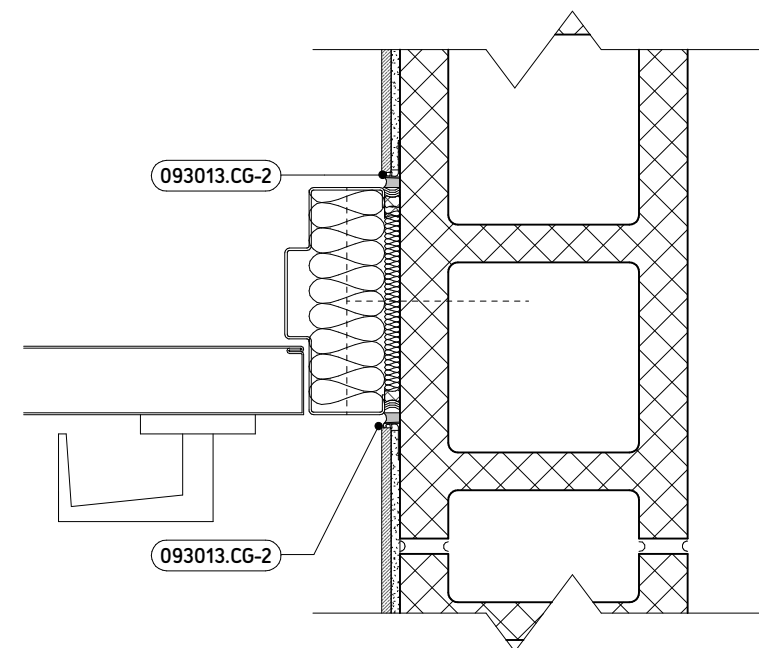
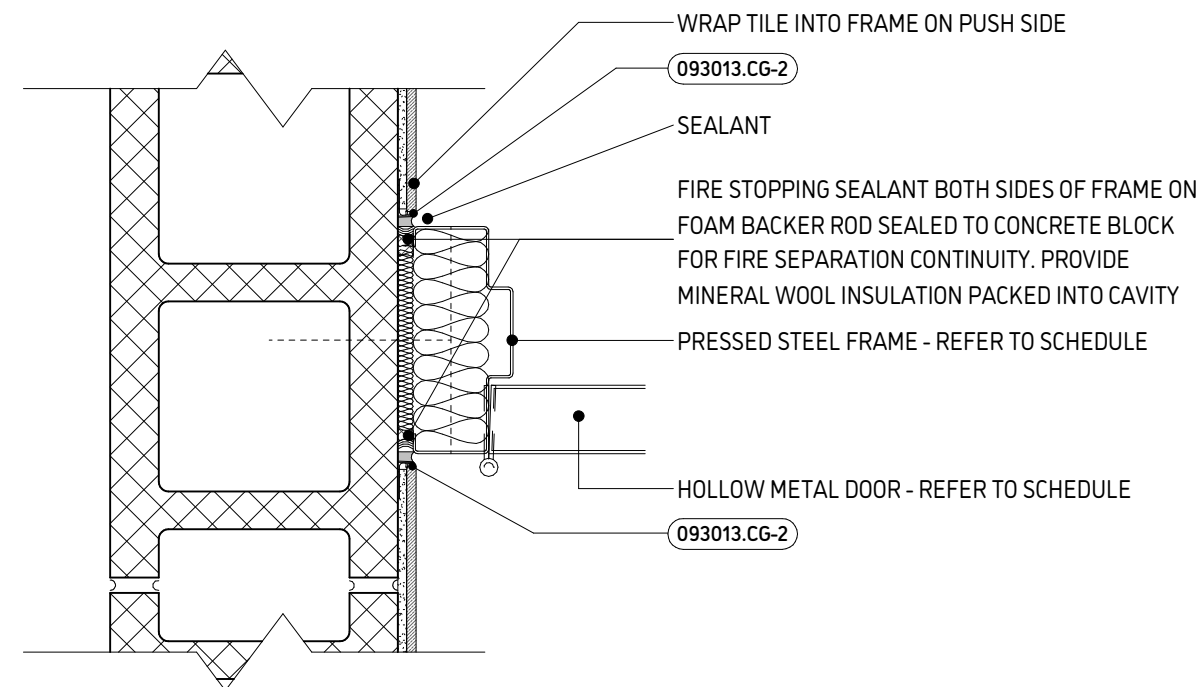
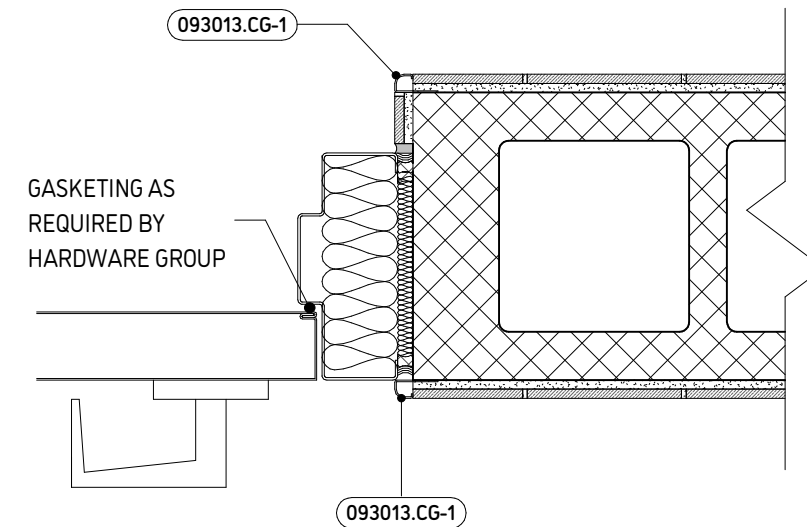
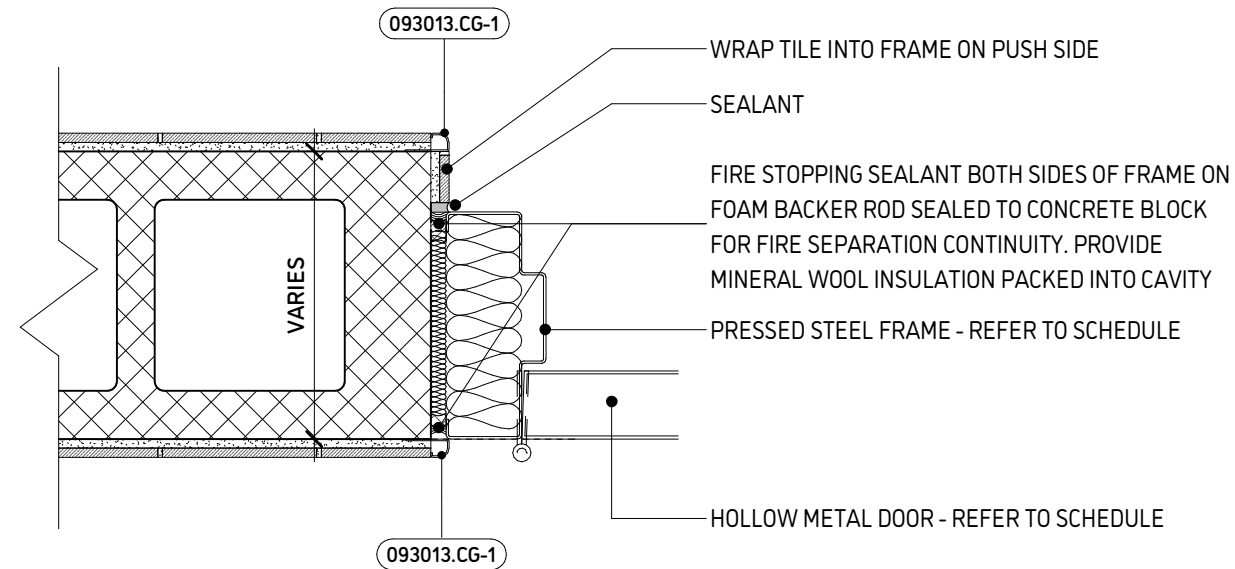
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PROJECT NO: TLDSB 2021  
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Revisions

Title  
**Doors**

Sheet

# DSK 08.0



**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various  
**TENDER AND BUILDING  
PERMIT**

MAY 2021

Seal



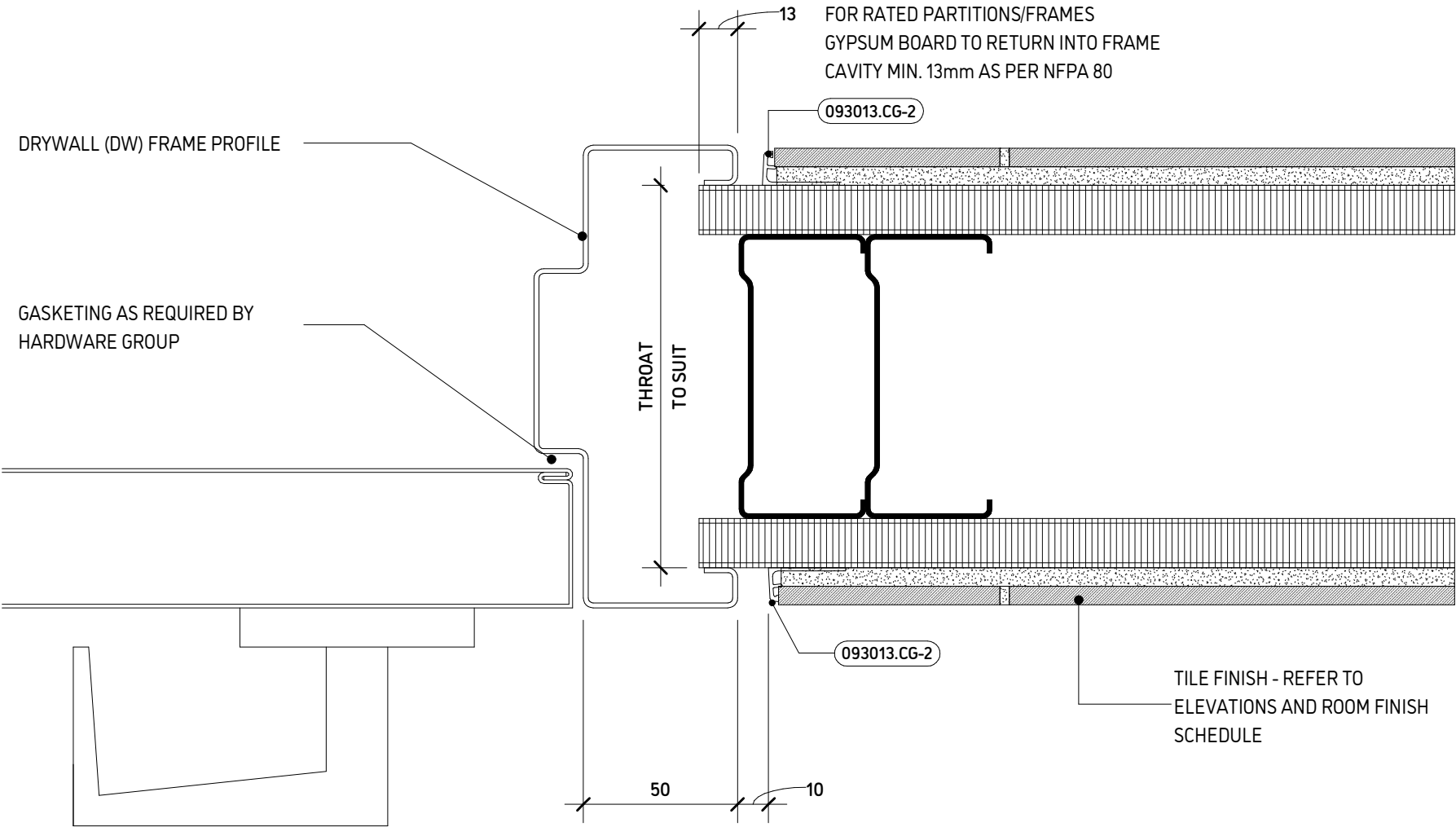
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PROJECT NO: TLDSB 2021  
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Revisions

Title  
**Door Frames  
Masonry**

Sheet

**DSK 08.1**



**1** Door Jamb Steel Stud  
1:2



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77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various

**TENDER AND BUILDING  
PERMIT**

MAY 2021

Seal



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Revisions

Title

**Door Frames  
Steel Stud**

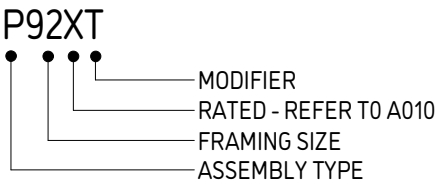
Sheet

**DSK 08.2**

GENERAL NOTES - ASSEMBLIES

- 1. Refer to Room Finish Schedule and elevations for interior finishes.
- 2. Ensure substrate tolerance requirements of subsequent finish trade are met or exceeded.
- 3. Painted gypsum board walls in a raking light from windows or interior electric light such as wall washing, valance or cove lighting are to receive skim coat to achieve uniform appearance and mitigate shadowing.
- 3. Extend and anchor all new walls to underside of structure above. Provide deflection track to suit anticipated structure deflection.
- 4. Fire separations:
  - a) Are to extend to underside of structural roof deck/floor assembly above and,
  - b) are to be sealed full perimeter to nearest adjacent fire rated assembly with ULC approved fire stop system to achieve a continuous uninterrupted system.
- 5. Glass matt reinforced gypsum board tile backer wallboard or cement board is to be used in all wet locations as substrate for wall tile installations. Note: all washrooms are considered wet locations.
- 6. Provide wood blocking within stud wall cavities in all locations to receive wall mounted accessories and equipment, coordinate with Div. 10, mechanical and electrical drawings, specifications and manufacturer's installation instructions for requirements.

PARTITION ASSEMBLY CODES



ASSEMBLY TYPES

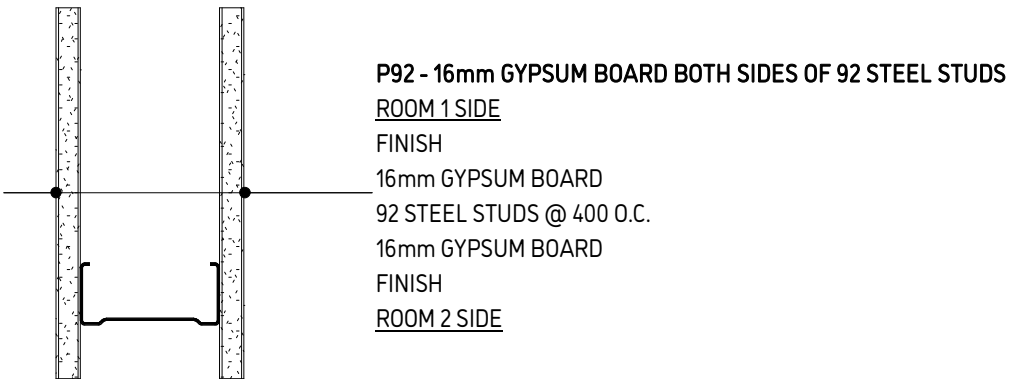
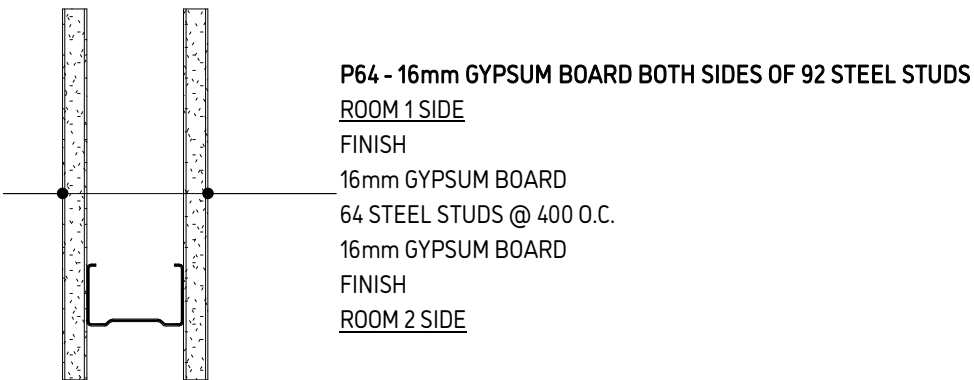
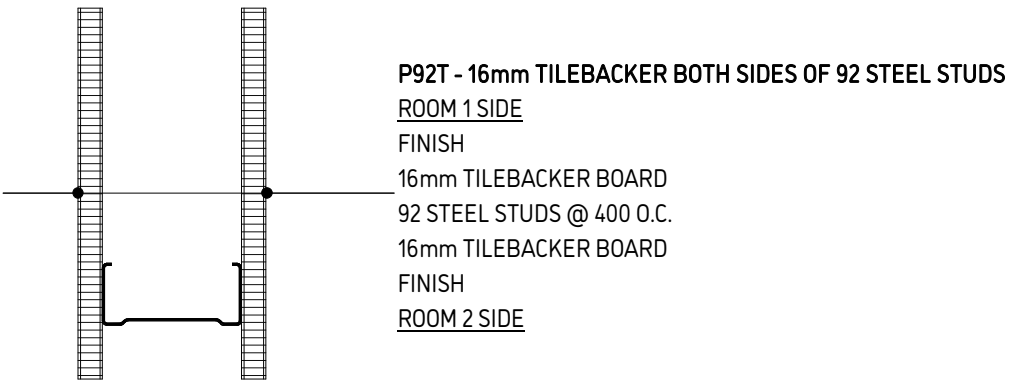
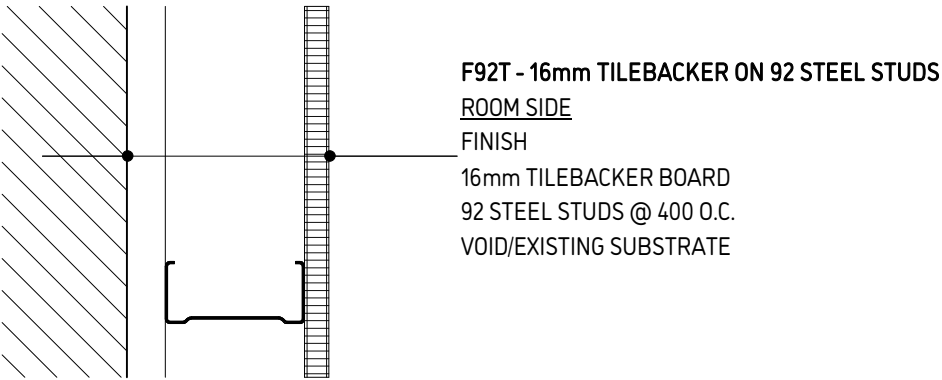
- F - FURRING
- P - STEEL STUD PARTITION
- CB - CONCRETE BLOCK

SIZES

- STEEL STUDS/FURRING
- 22 - 22mm FURRING CHANNEL
- 41 - 41mm/1-7/8" STEEL STUD
- 64 - 64mm/2-1/2" STEEL STUD
- 92 - 92mm/3-5/8" STEEL STUD
- 102 - 102mm/4" STEEL STUD
- 152 - 152mm/6" STEEL STUD
- 203 - 203mm/8" STEEL STUD

MODIFIERS

- A - ACOUSTIC INSULATION
- HD - HIGH IMPACT GYPSUM BOARD
- T - TILEBACKER
- WR - WATER RESISTANT



77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

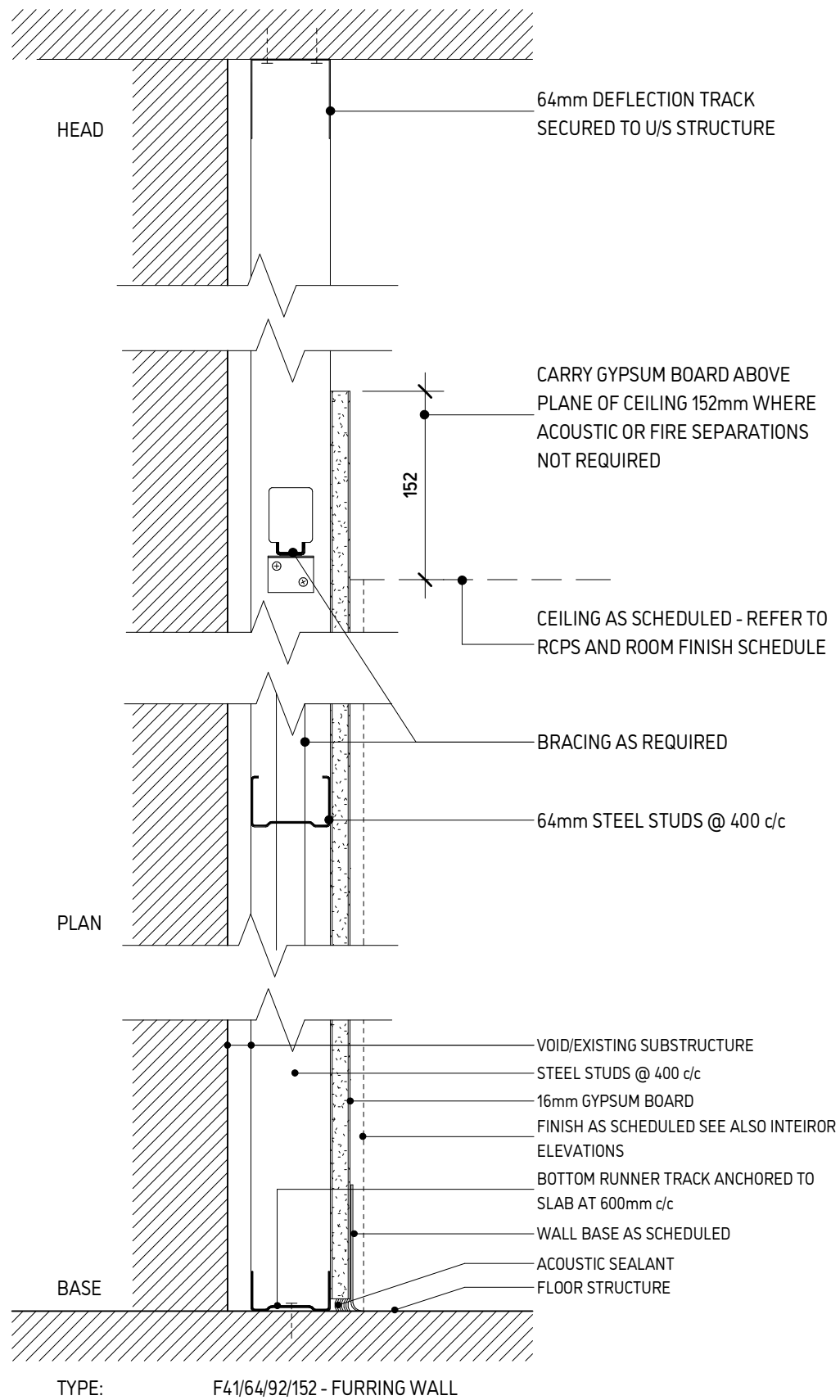
TLDSB WASHROOM  
RENEWALS SUMMER  
2021

TENDER AND BUILDING  
PERMIT

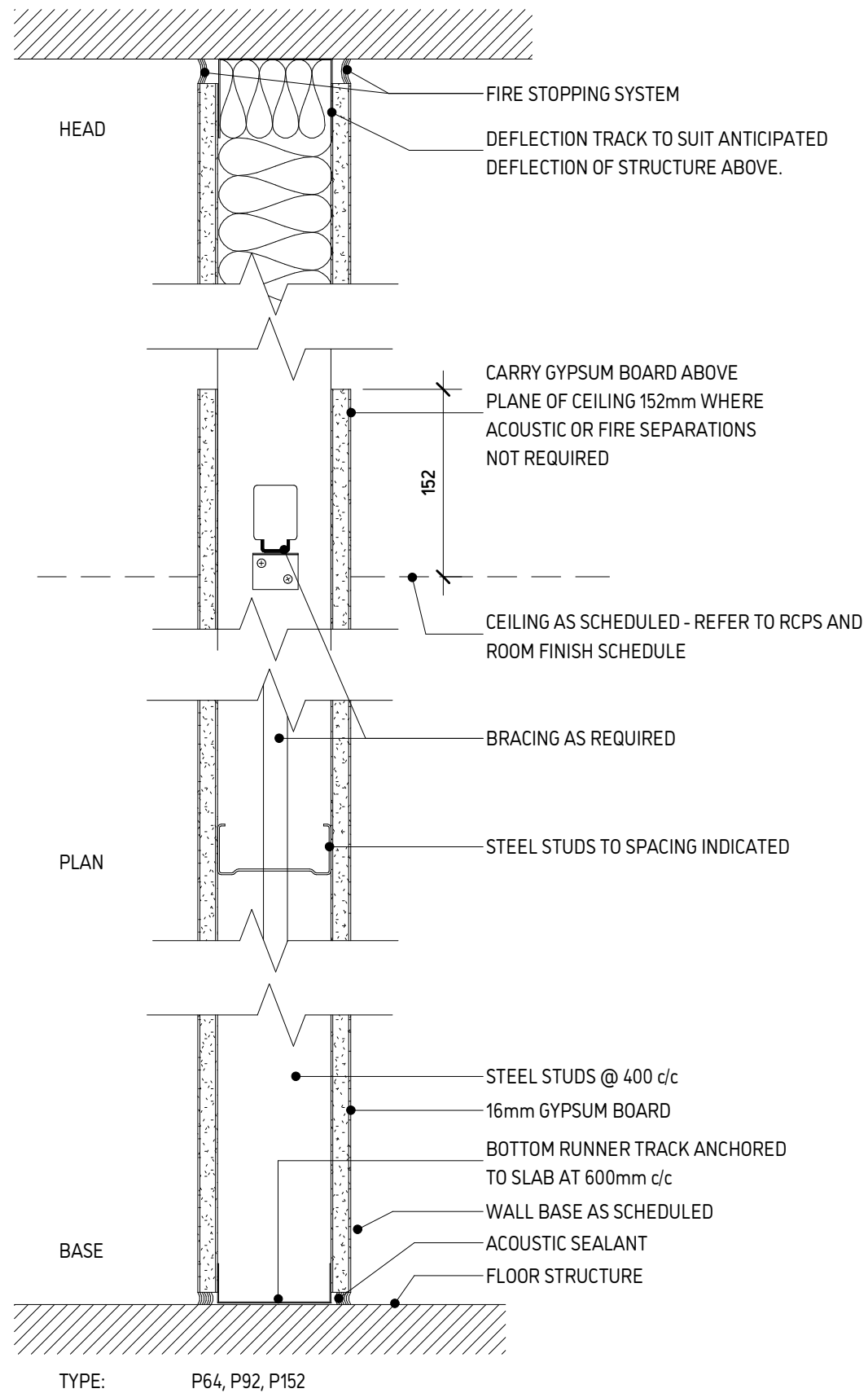


DATE: 5/17/2021 11:55:49 AM  
PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: JLA

Partition  
Assemblies



**ASSEMBLY:** ROOM SIDE  
16mm GYPSUM BOARD  
64mm STEEL STUDS @ 400 c/c  
VOID  
EXISTING CONSTRUCTION



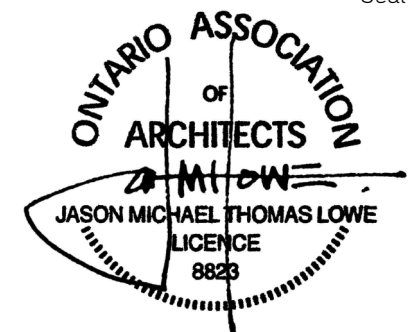
**ASSEMBLY:** ROOM A SIDE  
16mm GYPSUM BOARD  
92mm STEEL STUDS @ 400 c/c  
16mm GYSPUM BOARD  
ROOM B SIDE

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various  
**TENDER AND BUILDING  
PERMIT**

MAY 2021

Seal



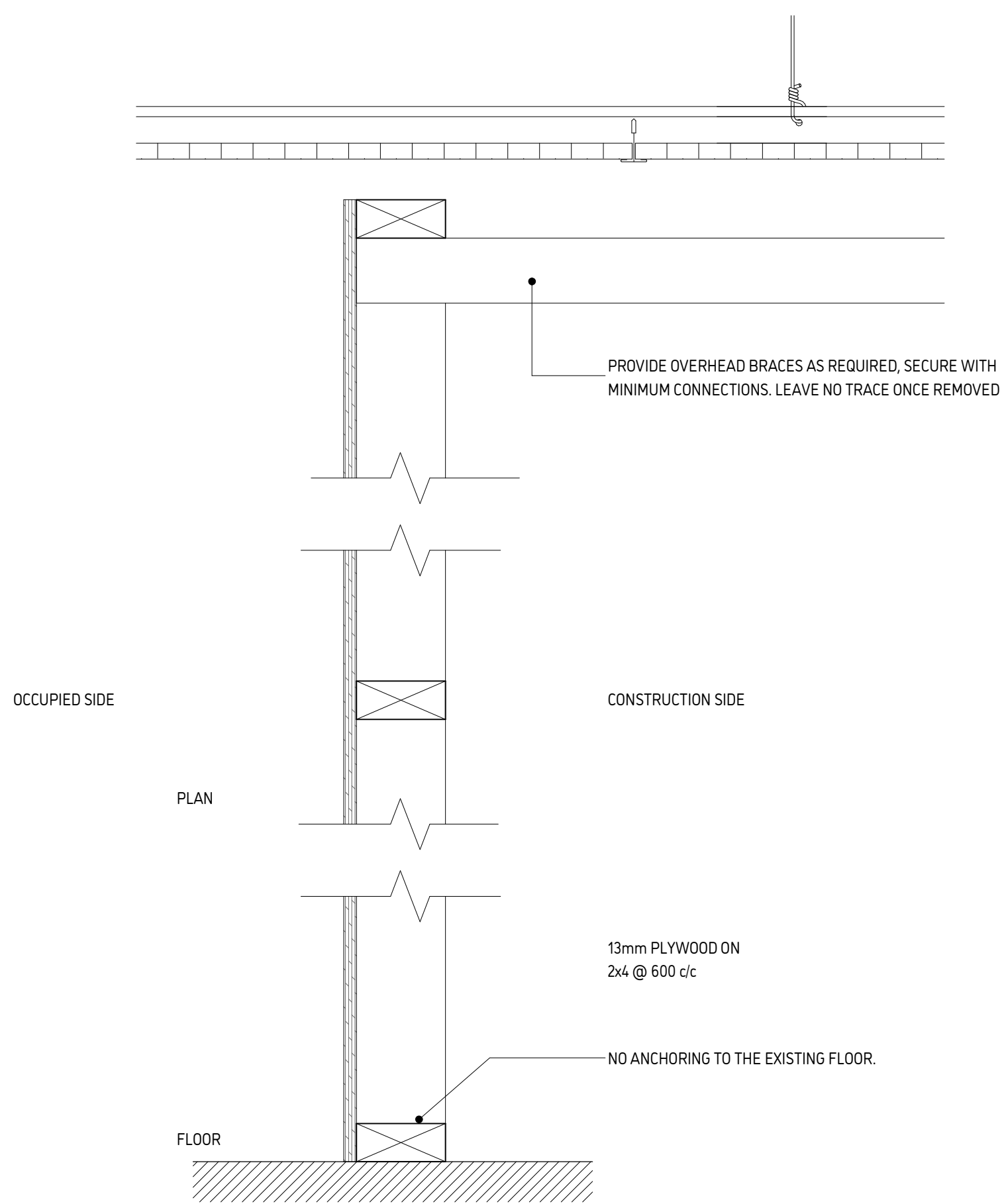
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PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: JLA

Revisions

Title  
**Steel Stud  
Assemblies**

Sheet

**DSK 09.1**



1 Hoarding Assembly  
1:5

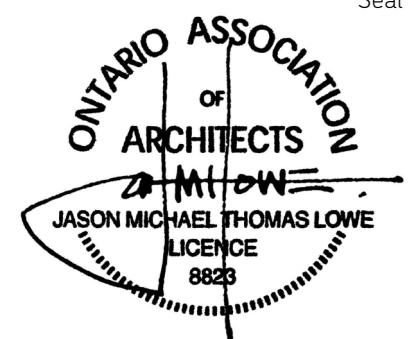


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77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

TLDSB WASHROOM  
RENEWALS SUMMER  
2021

TENDER AND BUILDING  
PERMIT

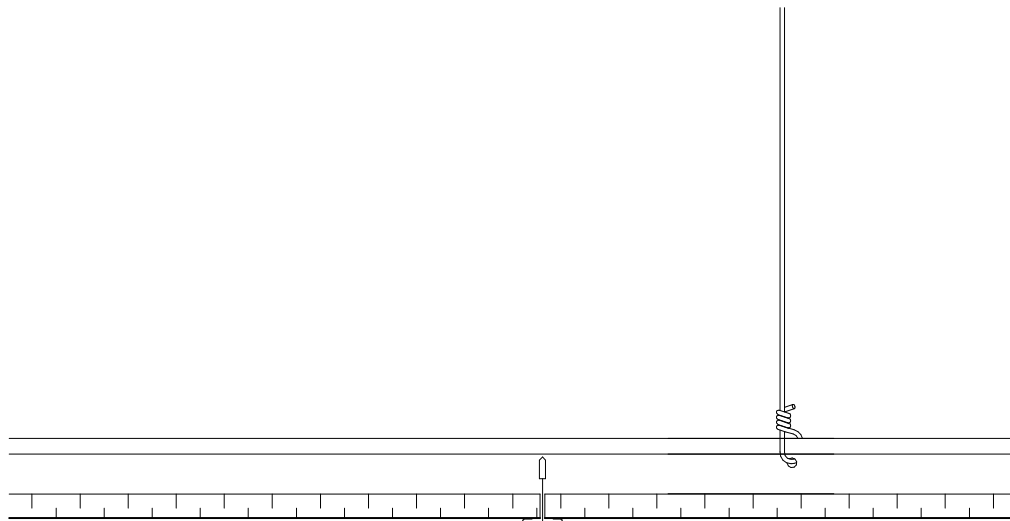


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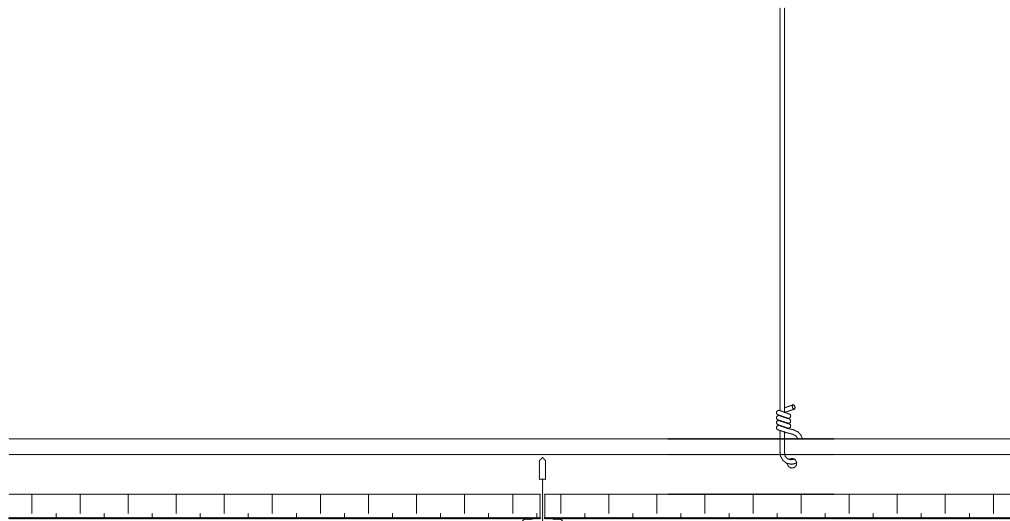
Hoarding Wall  
Assembly

DSK 09.2





ACT-1  
600 x 600 ACOUSTIC TILE CEILING  
SUSPENDED FROM STRUCTURE ABOVE

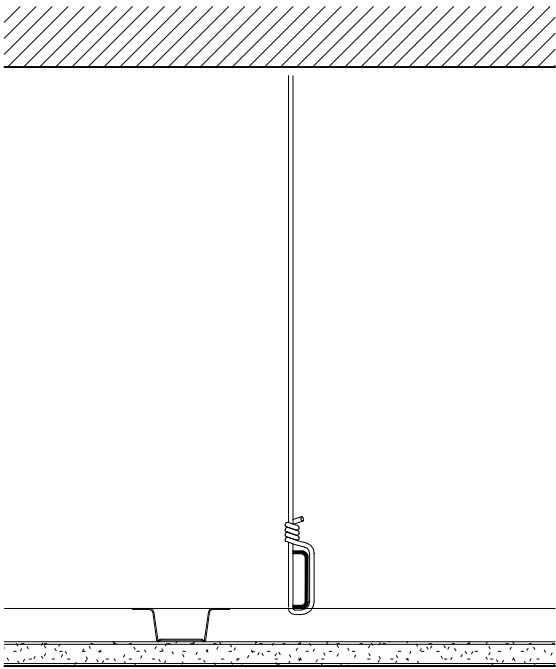


ACT-2  
600 x 600 FIRE GUARD  
ACOUSTIC TILE CEILING SUSPENDED FROM  
STRUCTURE ABOVE

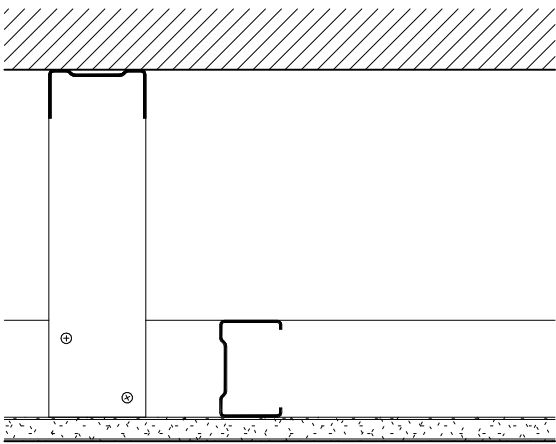
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## Ceiling Types

1:5



PGB-1  
16mm TYPE 'X' GYPSUM BOARD ON  
22mm FURRING CHANNEL SUSPENDED  
FROM 38mm CARRYING CHANNEL AND  
WIRE HANGERS FROM U/S OF  
FLOOR/ROOF ASSEMBLY ABOVE



PGB-2 BULKHEAD  
64mm STEEL STUDS @ 400 c/c SUSPENDED BY  
STEEL STUD HANGERS TO U/S FLOOR/ROOF  
ASSEMBLY ABOVE



JASON LOWE ARCHITECT

77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

## TLDSB WASHROOM RENEWALS SUMMER 2021

Various

## TENDER AND BUILDING PERMIT

MAY 2021

Seal



DATE: 5/17/2021 11:55:50 AM  
PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
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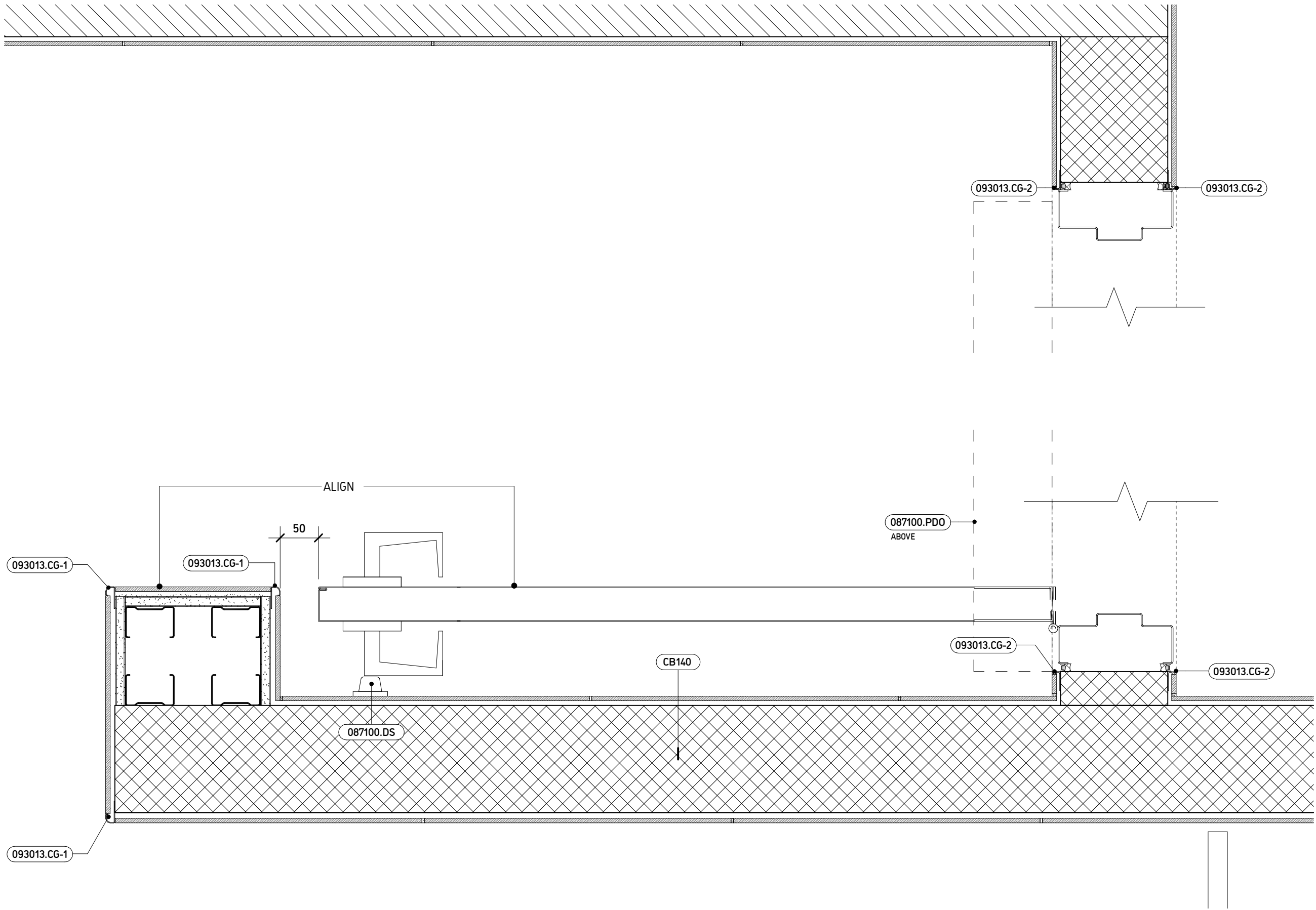
Revisions

Title

## Ceiling Assemblies

Sheet

DSK 09.3



1

Plan Detail Door Pocket

1:5



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TLDSB WASHROOM  
RENEWALS SUMMER  
2021

Various

TENDER AND BUILDING  
PERMIT

MAY 2021

Seal



DATE: 5/17/2021 11:55:50 AM

PROJECT NO: TLDSB 2021

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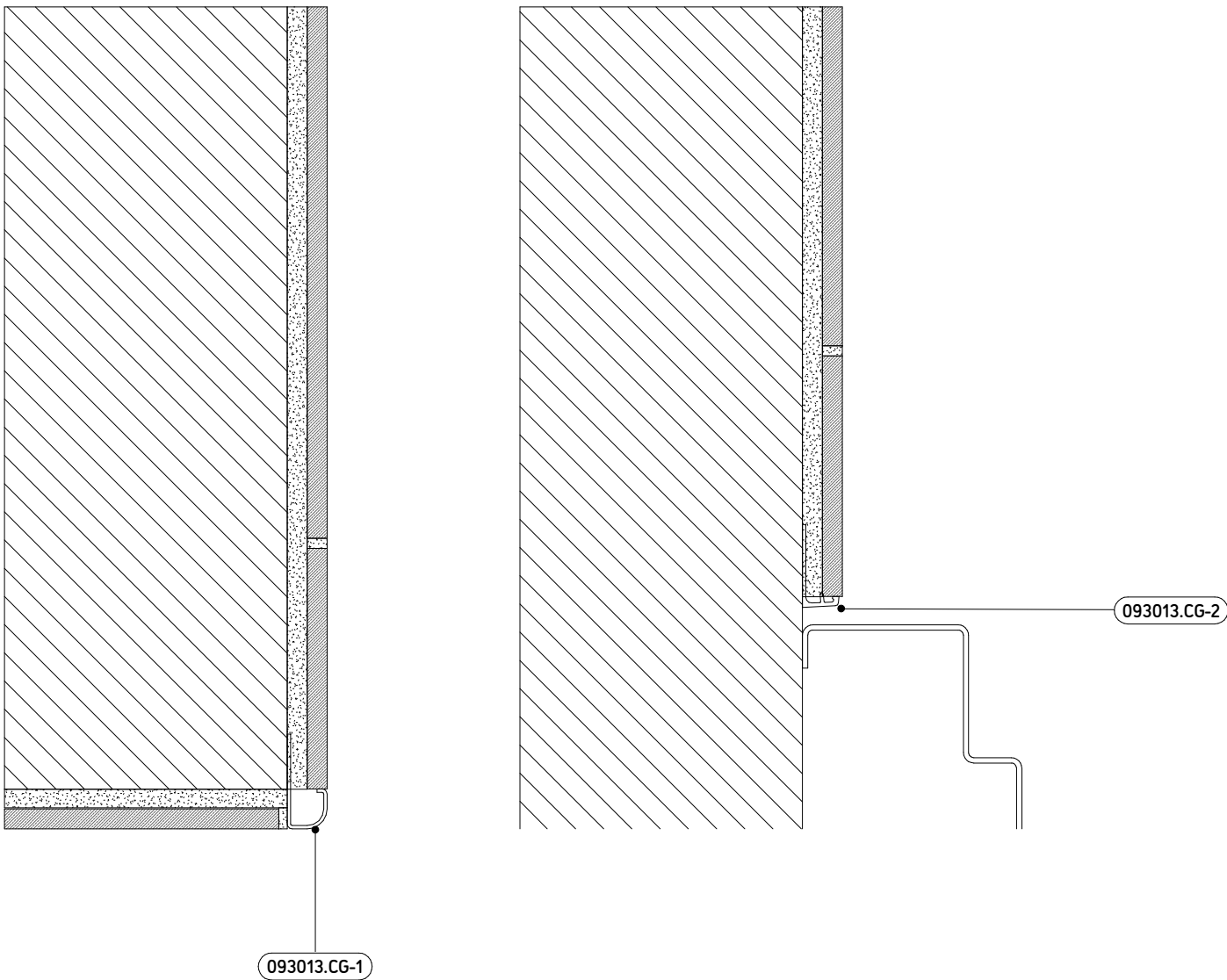
Revisions

Title

Door Pocket  
Detail

Sheet

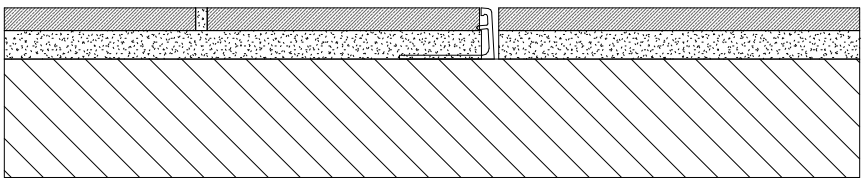
DSK 09.10



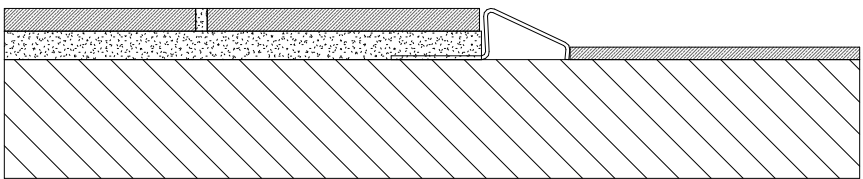
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Trim Details

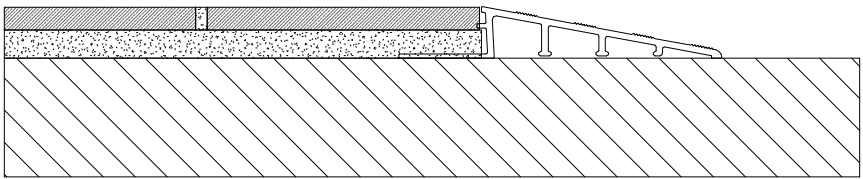
1:2



TS1 - SCHLUTER SCHIENE



TS2 - SCHLUTER RENO



TS3 - SCHLUTER RAMP



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77 MAIN STREET HUNTSVILLE ONTARIO P1H 2B9

TLDSB WASHROOM  
RENEWALS SUMMER  
2021

Various

TENDER AND BUILDING  
PERMIT

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PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: JLA

Revisions

Title

Tile Trim Details

Sheet

DSK 09.11

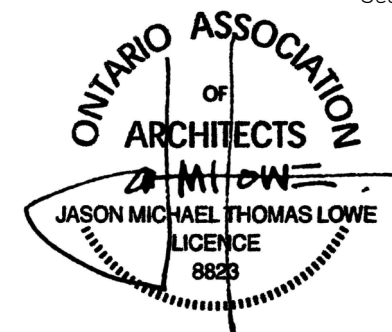
TLDSB WASHROOM  
RENEWALS SUMMER  
2021

Various

TENDER AND BUILDING  
PERMIT

MAY 2021

Seal



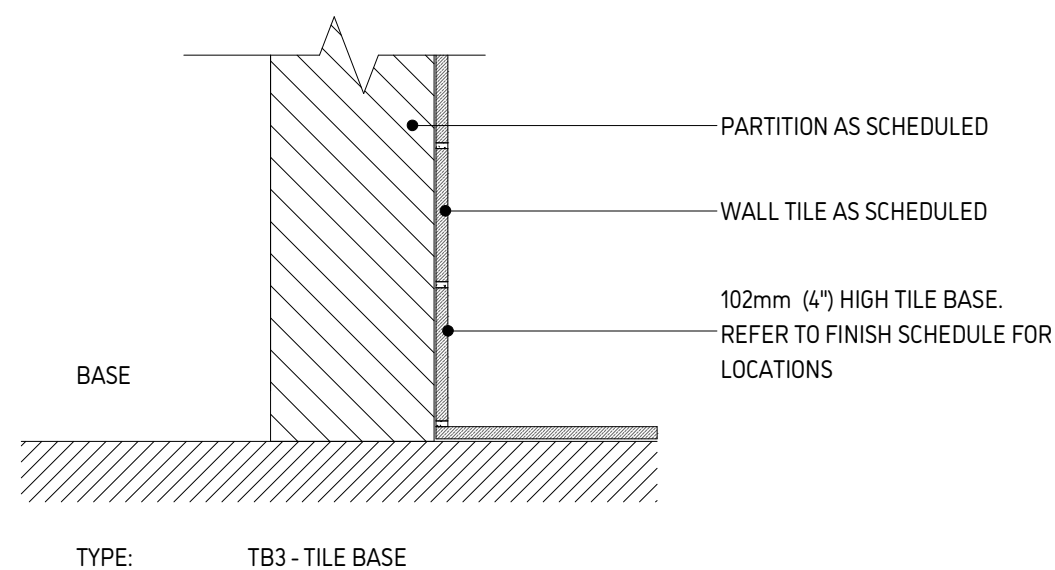
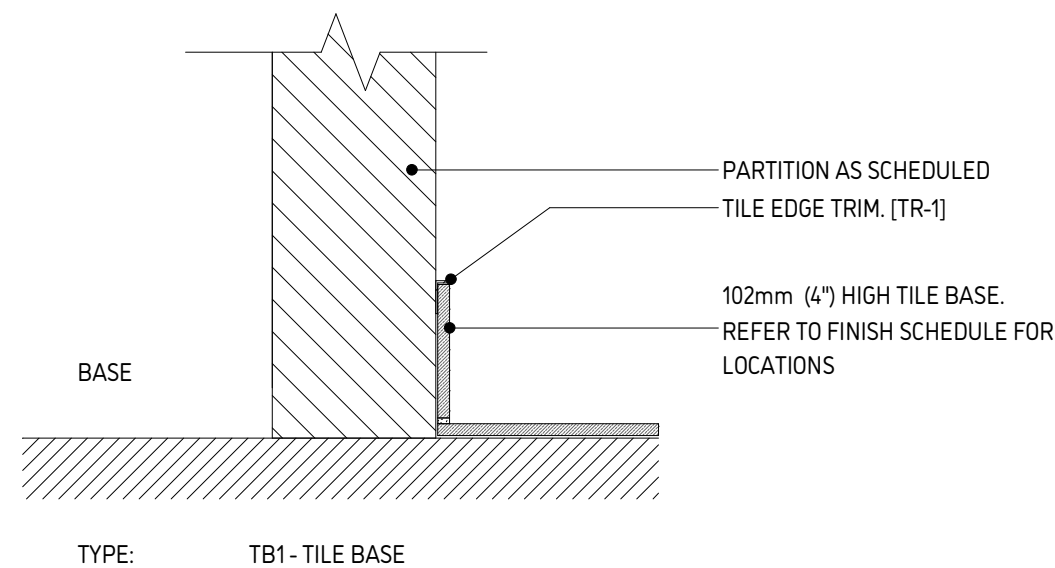
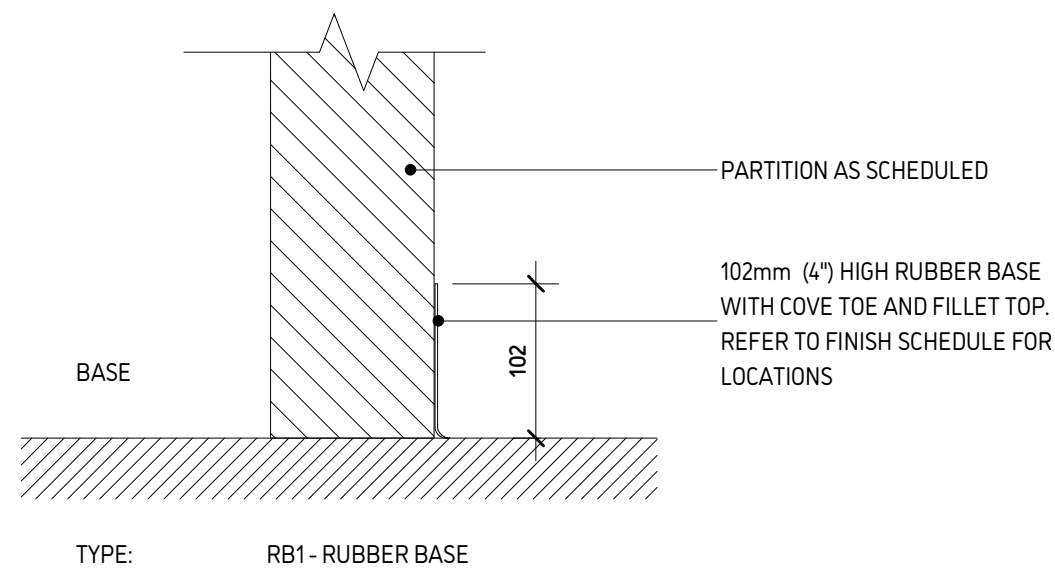
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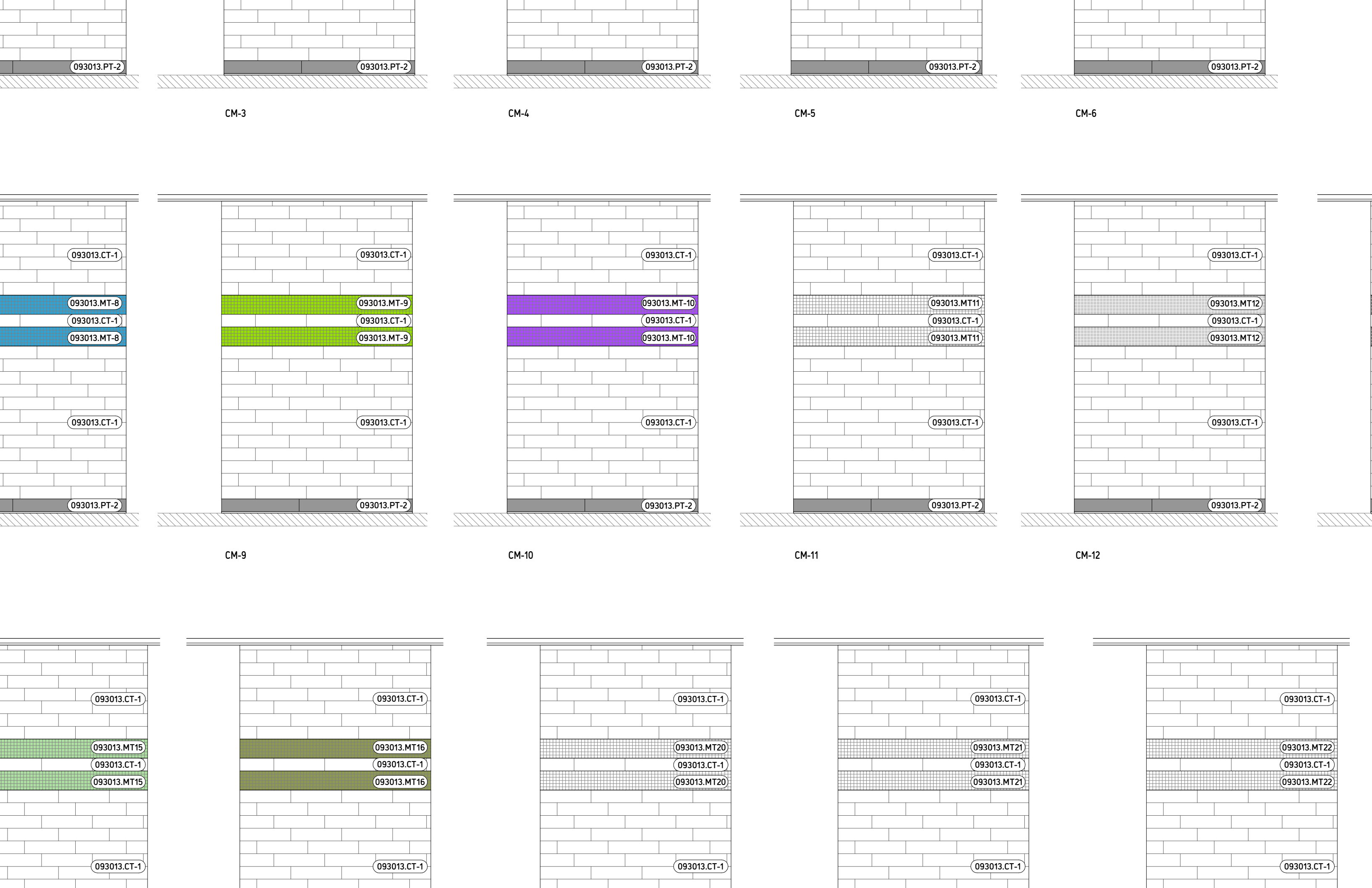
Revisions

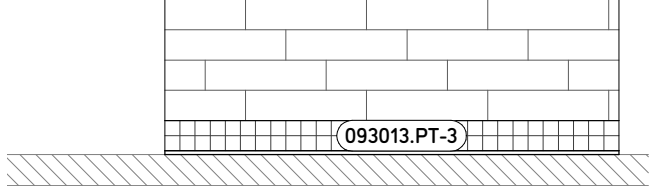
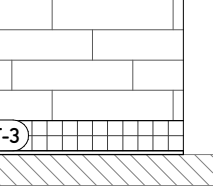
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Base Details

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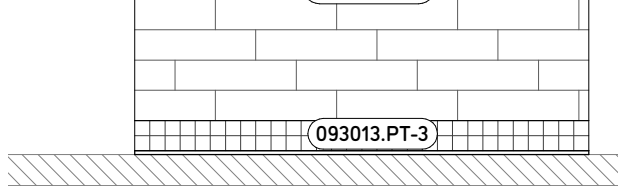
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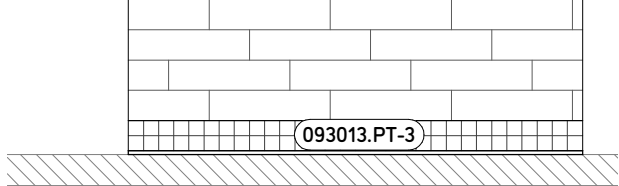




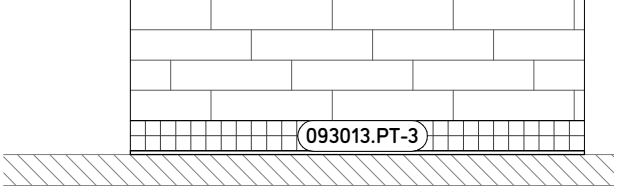
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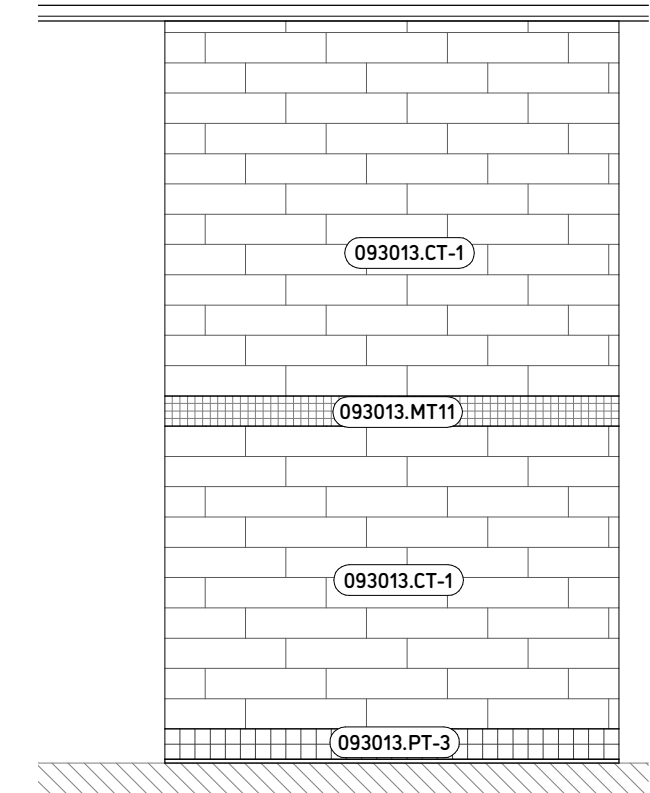
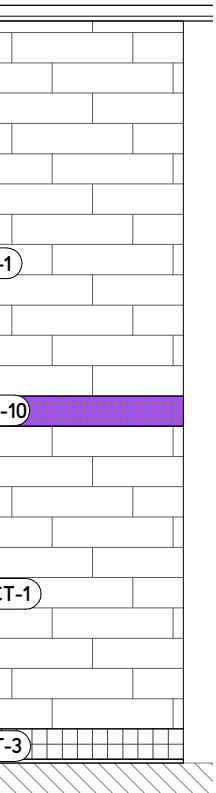
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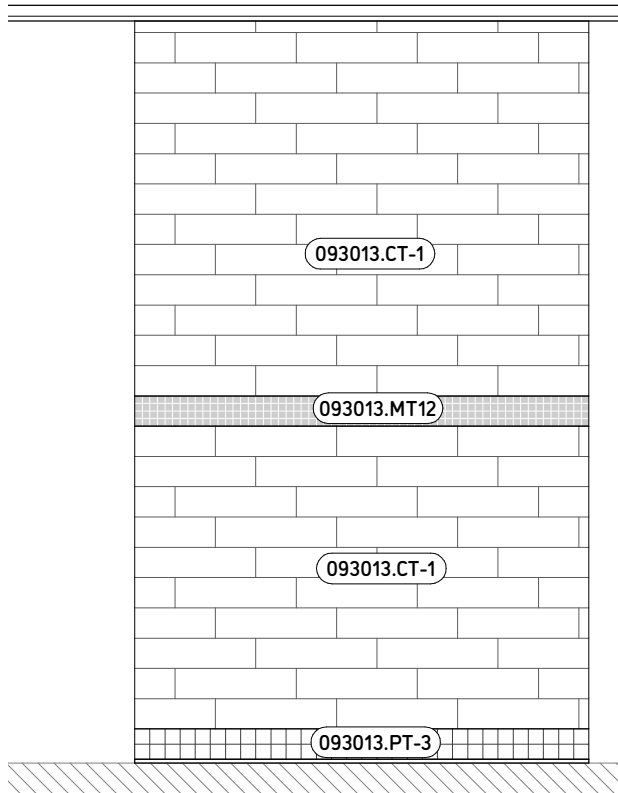
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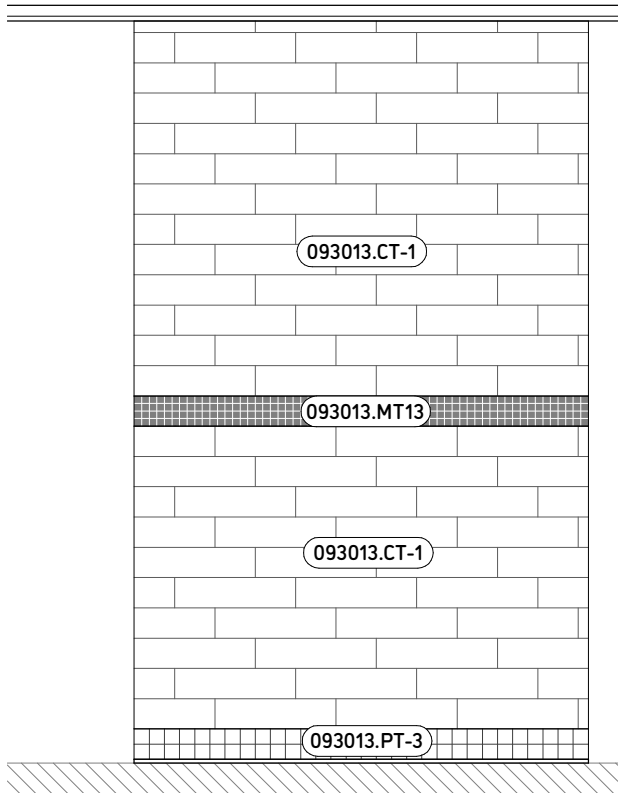
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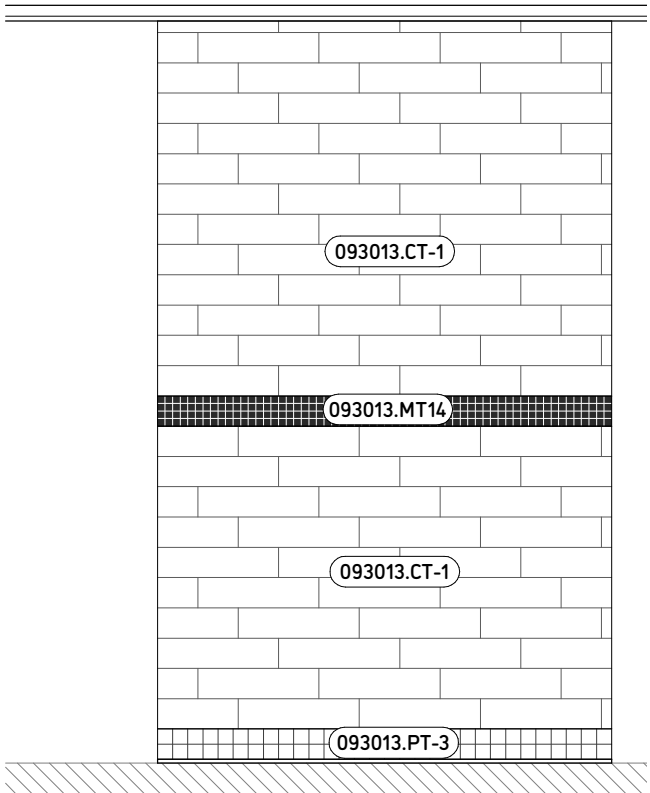
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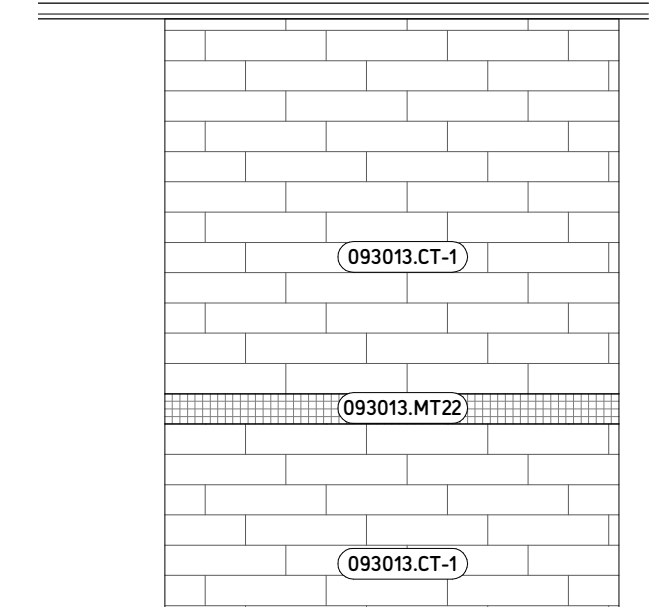
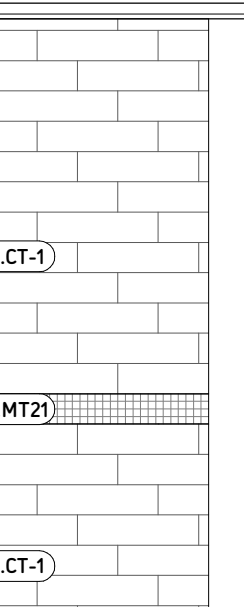
CMS-12



CMS-13



CMS-14









# WASHROOM SIGNAGE

REFER TO SPECIFICATION SECTION 10 14 00  
SIGN DIMENSIONS: 150mm WIDE X 200mm TALL

SIGN COLOURS: BLACK MAIN FIELD  
WHITE FIGURES  
WHITE TEXT  
WHITE TACTILE BRAILLE LETTERING

MOUNTING HEIGHT: TOP OF SIGN NOT TO EXCEED 1500mm AFF REFER TO  
ELEVATIONS FOR OTHER DIMENSIONS.

MOUNTING METHOD: SELF ADHESIVE DOUBLE SIDED TAPE

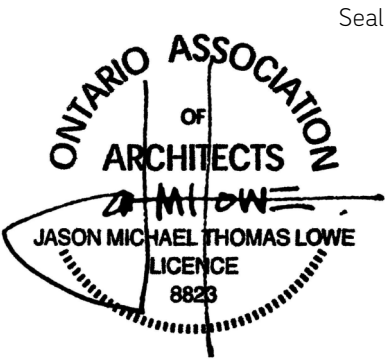
SIGN TYPES:

- SN-1: GIRL'S WASHROOM BARRIER FREE C/W TACTILE BRAILLE LETTERING
- SN-1A: GIRL'S WASHROOM
- SN-2: BOY'S WASHROOM BARRIER FREE C/W TACTILE BRAILLE LETTERING
- SN-2A: BOY'S WASHROOM
- SN-3: UNIVERSAL WASHROOM BARRIER FREE C/W TACTILE BRAILLE LETTERING
- SN-4: FEMALE STAFF WASHROOM BARRIER FREE C/W TACTILE BRAILLE LETTERING
- SN-4A: FEMALE STAFF WASHROOM
- SN-5: MALE STAFF WASHROOM BARRIER FREE C/W TACTILE BRAILLE LETTERING
- SN-5A: MALE STAFF WASHROOM
- SN-6: GENDER NEUTRAL STAFF WASHROOM
- SN-7: GENDER NEUTRAL WASHROOM BARRIER FREE C/W TACTILE BRAILLE LETTERING
- SN-7A: GENDER NEUTRAL WASHROOM

## TLDSB WASHROOM RENEWALS SUMMER 2021

## TENDER AND BUILDING PERMIT

MAY 2021



DATE: 5/17/2021 11:55:53 AM  
PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: JLA

Revisions

Title  
Signage

Sheet

**TLDSB WASHROOM  
RENEWALS SUMMER  
2021**

Various

**TENDER AND BUILDING  
PERMIT**

MAY 2021

Seal

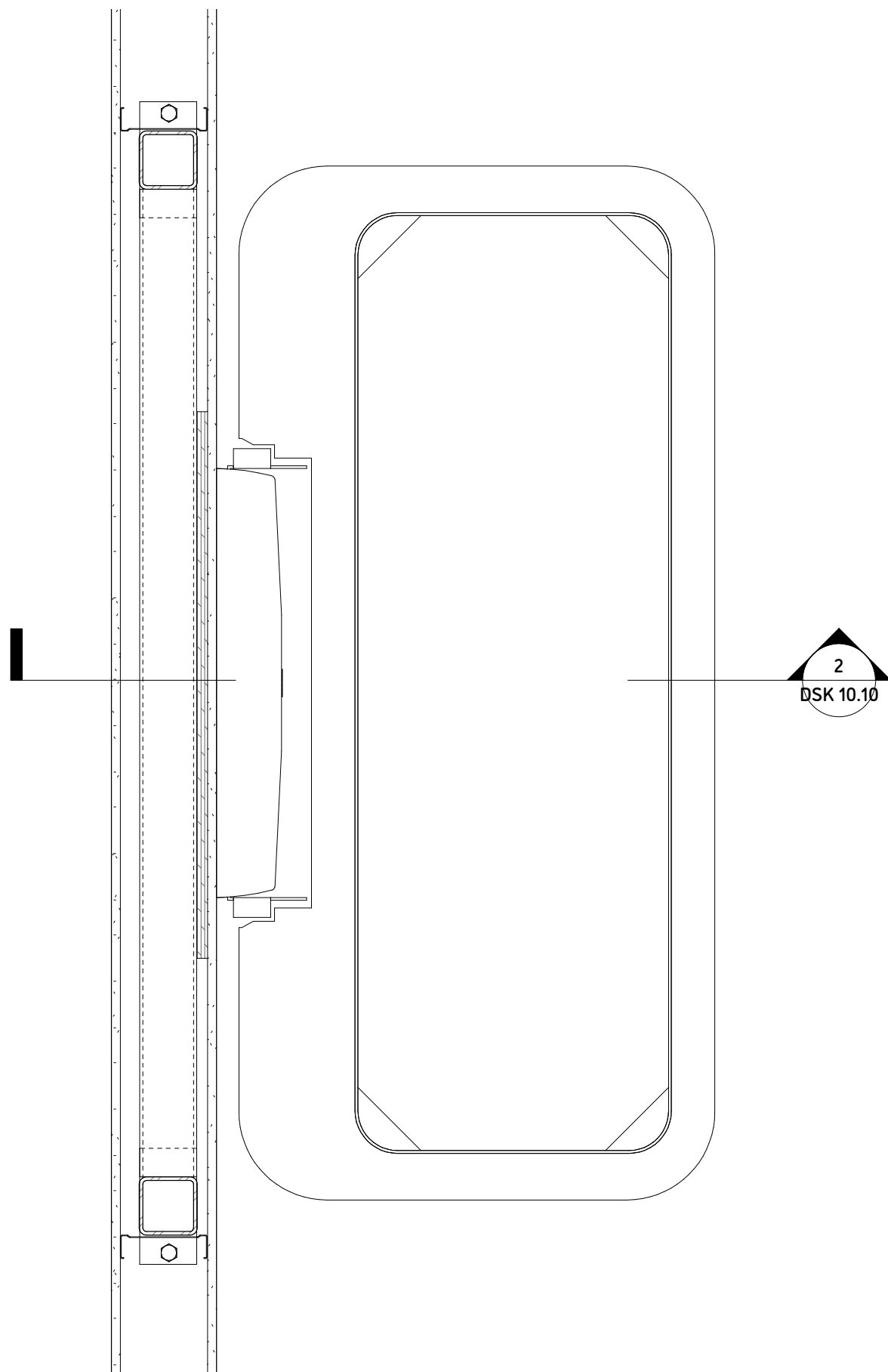
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PROJECT NO: TLDSB 2021  
DRAWN: JMTL  
CHECKED: Checker

Revisions

Title  
**Change Table  
Details**

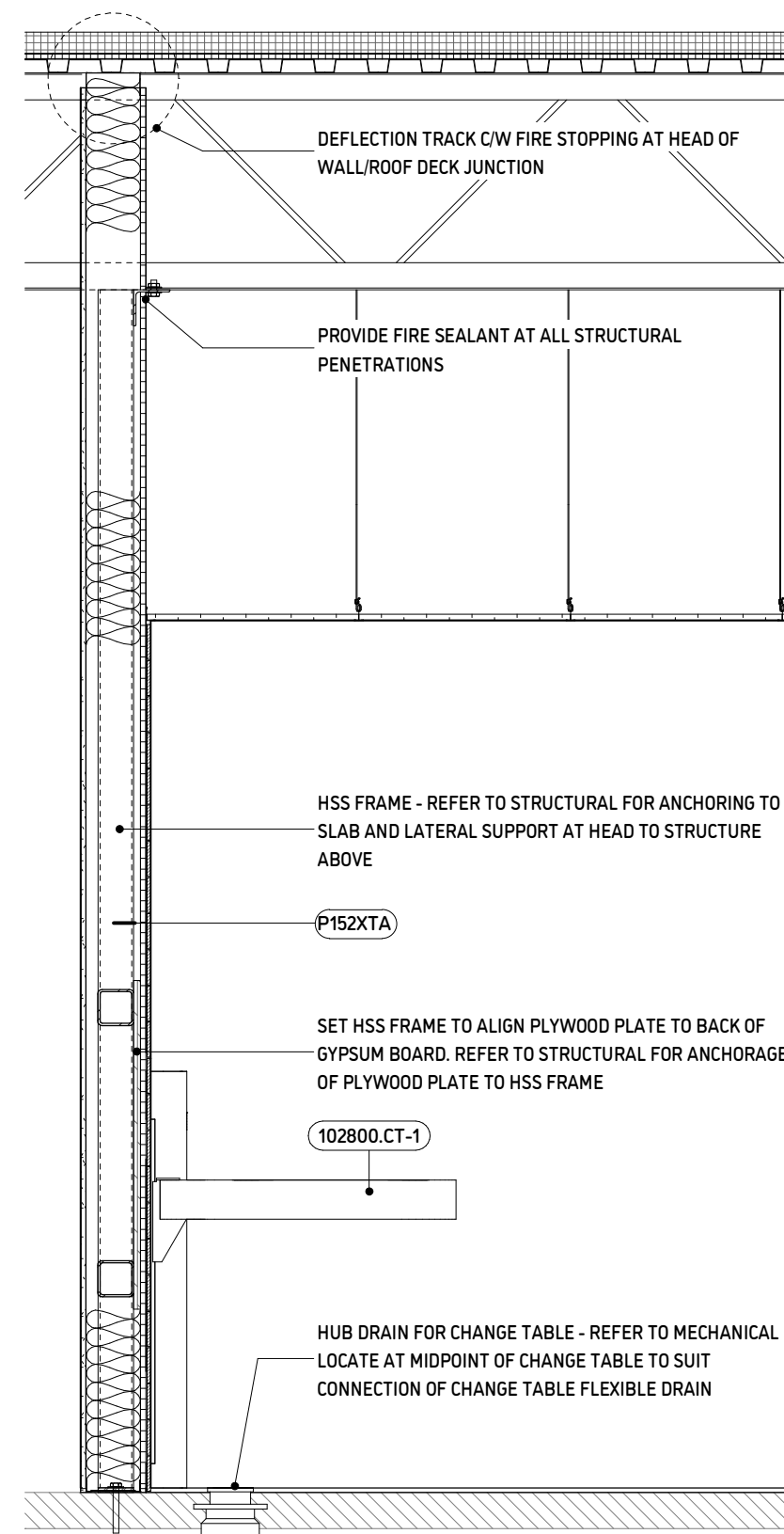
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**DSK 10.10**



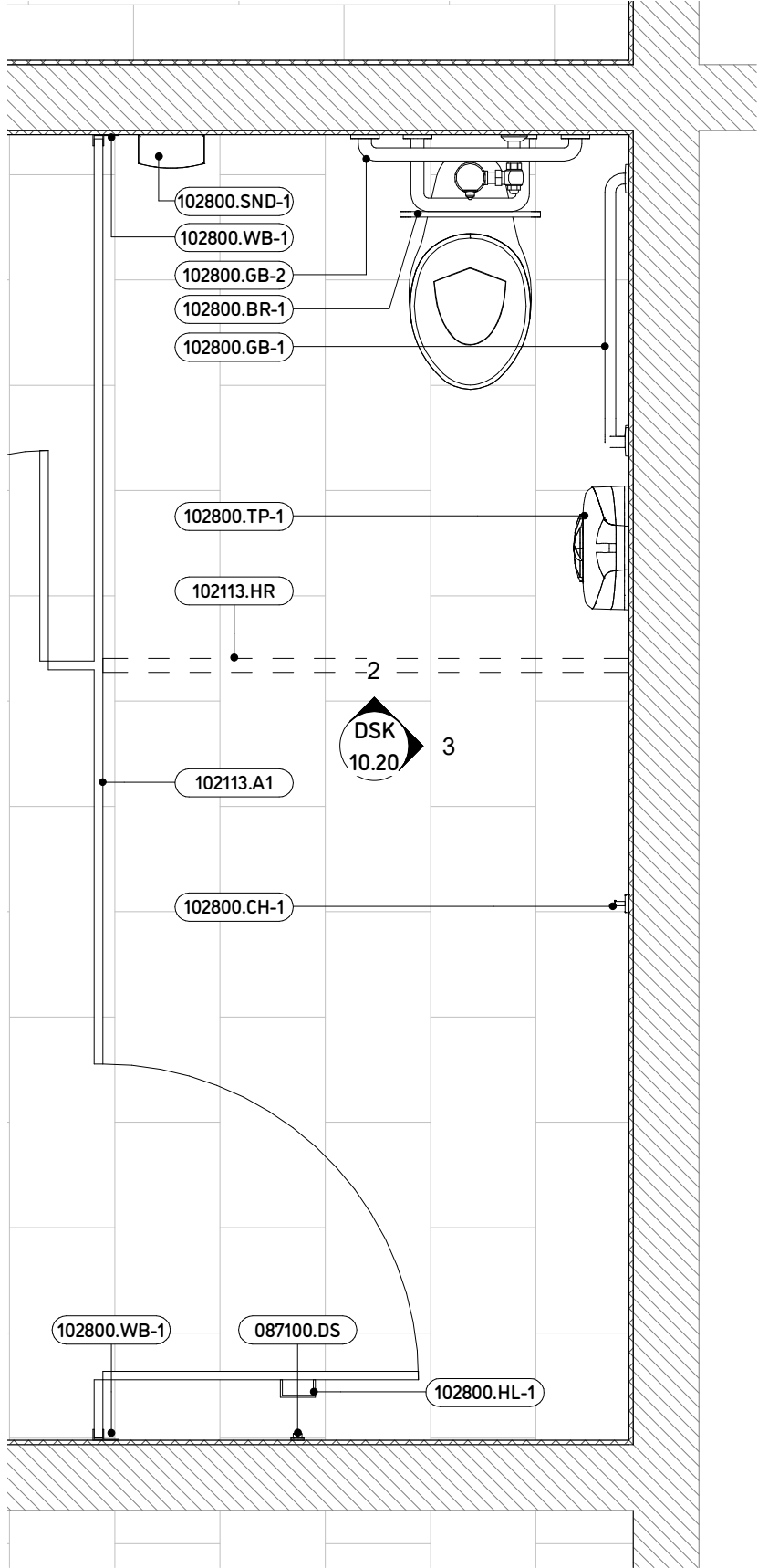
**1** Change Table Plan Detail

1:10

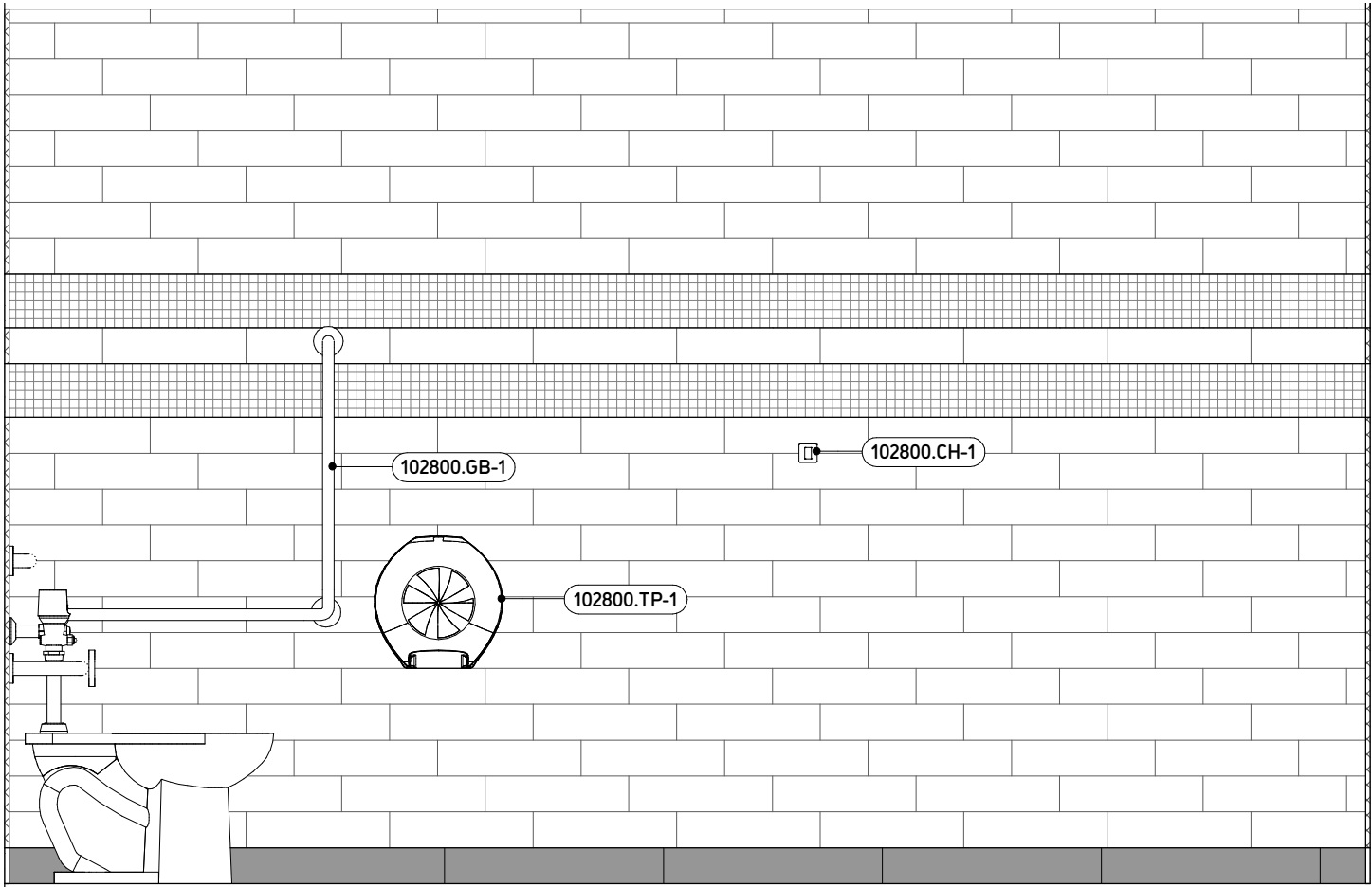
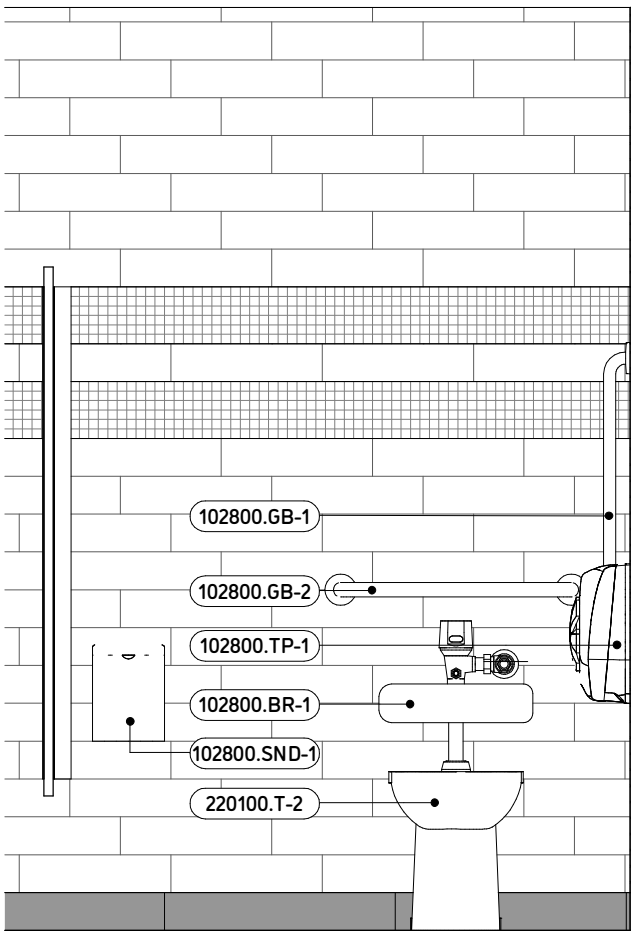


**2** Change Table Wall Section

1:20



1 Typical Barrier Free Stall  
1:20



Keynote Legend	
Key Value	Keynote Text
087100.DS	Door stop - wall mounted.
102113.A1	
102113.HR	Headrail
102800.BR-1	Back Rest
102800.CH-1	Coat Hook
102800.GB-1	Stainless Steel 90 Degree Grab Bar
102800.GB-2	Stainless Steel 24" Straight Grab Bar
102800.HL-1	Toilet Stall Door Handle
102800.SND-1	Sanitary Napkin Disposal
102800.TP-1	Toilet Paper Holder
102800.WB-1	Toilet Partition Wall Bracket
220100.T-2	Toilet T-2

# TRILLIUM LAKELANDS DISTRICT SCHOOL BOARD (TLDSB)

## SCHOOL UPGRADES AND REHABILITATION 2021

### REFERENCE BOOKLET



**TRILLIUM LAKELANDS DISTRICT  
SCHOOL BOARD (TLDSB)**  
1271 CEDAR LANE  
BRACEBRIDGE, ONTARIO  
P1L 1N4  
ph 1 (888) 526-5552



PROJECT No. 20-1636

**STRUCTURAL CONSULTANT  
TULLOCH ENGINEERING INC.**  
80 MAIN STREET, WEST  
HUNTSVILLE, ONTARIO -P1H 1W9  
ph (705) 789-7851  
frank.palmay@tulloch.ca

GENERAL NOTES:

1. READ STRUCTURAL DRAWINGS IN CONNECTION WITH OTHER CONTRACT DOCUMENTS
2. THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON THE STRUCTURE DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION. ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCING WORK
3. DO NOT SCALE DRAWINGS
4. DESIGN LIVE LOADS FOR EACH PORTION OF THE STRUCTURE ARE SHOWN. DO NOT EXCEED THESE LOADS DURING CONSTRUCTION.
5. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
6. STRUCTURAL DESIGN IS BASED ON THE LATEST EDITION OF THE NATIONAL BUILDING CODE AND, SPECIFICALLY, DIV. B- PART 4 OF THE 2006 ONTARIO BUILDING CODE
7. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR THE TESTING OF CONCRETE, COMPACTION, INSPECTION OF STRUCTURAL REINFORCING AND STRUCTURAL STEEL FOR ALIGNMENT, BOLTS AND WELDED CONNECTIONS, AND FOR THE PROMPT SUBMISSION OF ALL REPORTS TO THE PROJECT ENGINEER AND ARCHITECT.
8. ANY TEMPORARY SHORING REQUIRED TO CONSTRUCT THE WORKS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT THE START OF THE PROJECT AND ARRANGE FOR ALL INSPECTIONS IN ACCORDANCE WITH CLAUSE 10.2 OF THE BUILDING CODE ACT AND DIV. C. PART 1 OF THE ONTARIO BUILDING CODE, PROVIDE MINIMUM 48 HOURS NOTICE WHEN AN INSPECTION IS REQUIRED. TULLOCH ENGINEER HUNTSVILLE MY BE CONTACTED BY PHONE AT (705)789-8751.
10. WHERE DEMOLITION OR RENOVATION OF EXISTING BUILDING IS INVOLVED, IT IS THE RESPONSIBILITY OF THE OWNER TO COMPLETE A DESIGNATED SUBSTANCE SURVEY. A COPY OF THE SURVEY SHALL BE FORWARDED TO THE ENGINEER AND TO THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA SPECIFICATIONS S16.1 (LATEST EDITION) AND CSA SPECIFICATIONS G40.1 TYPE 350W (LATEST EDITION) FOR BEAMS AND 350W FOR HSS (CLASS C).
2. THE WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE CSA W59 AND THE WELDING COMPANY AND WELDERS SHALL BE QUALIFIED UNDER THE REQUIREMENTS OF CSA W57 (LATEST EDITION) FOR THE APPROPRIATE POSITION.
3. PREPARE AND SUBMIT FOR APPROVAL, FULLY DETAILED AND DIMENSIONED DRAWINGS AND ERECTION DIAGRAMs, FOUR COPIES SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL, FABRICATION, AND ERECTION, DRAWINGS SHALL BE SEALED BY THE FABRICATORS ENGINEER. ADDITIONAL COPIES OF THE DRAWINGS SHALL BE PROVIDED AS REQUIRED.
4. BOLTED CONNECTIONS SHALL BE MADE USING FRICTION TYPE CONNECTIONS AND HIGH TENSILE STRENGTH BOLTS (A325 MINIMUM).
5. PROVIDE AND REMOVE TEMPORARY BRACING NECESSARY TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION.
6. ALL CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTORS AND ARE TO BE DESIGNED AND STAMPED BY THE FABRICATOR'S ENGINEER AS PER CSA S16.1
7. STEEL SHALL BE THOROUGHLY CLEANED AND BE GIVEN ONE SHOP COAT OF ANTI-CORROSIVE PRIMER, AREAS EFFECTED BY WEATHERING, DAMAGE DUE TO HANDLING ETC., SHALL HAVE THE RUST REMOVED AND BE "TOUCHED UP" IN THE FIELD.
8. ALL OF THE BASE PLATES FOR COLUMNS AND BEARING PLATES FOR THE BEAMS SHALL BE GROUTED WITH MINIMUM OF 38MM (1½") OF 35 MPA (5100 PSI) NON-SHRINK GROUT.
9. NO SPLICES IN BEAMS AND COLUMNS WILL BE ALLOWED WITHOUT WRITTEN APPROVAL BY THE ENGINEER, BUTT WELDS IN SPLICES AND MOMENT CONNECTIONS MUST BE ULTRASONICALLY TESTED OR X-RAYED AND PASSED BY AN INDEPENDENT TESTING COMPANY.
10. CO-ORDINATE WITH MECHANICAL ENGINEER, ELECTRICAL ENGINEER, AND ALL SUB-TRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL. DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT ENGINEER APPROVAL.
11. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO BE ENGAGED BY THE CLIENT, TO ENSURE THAT SHOP AND FIELD WORK IS IN ACCORDANCE WITH DRAWINGS AND THESE SPECIFICATIONS. COPIES OF THE INSPECTION(S) ARE TO BE SENT TO THE CLIENT, THE ENGINEER, AND THE CHIEF BUILDING OFFICIAL.
12. ON SUPPORT WITH OWSJ FRAMING FROM ONE SIDE = THE CENTRE OF JOIST BEARING MUST SEAT WITHIN MIDDLE ONE-THIRD OF SUPPORT. FOR MASONRY WALL, JOISTS SHALL EXTEND A MINIMUM 150MM (8") INTO WALL.
13. JOIST SUPPLIER TO CHECK FOR WEIGHTS AND LOCATIONS OF ALL

MECHANICAL UNITS THAT SIT ON OR HANG FROM THE ROOF, AND TO ENSURE ADEQUATE CLEARANCE IS PROVIDED FOR DUCTS THAT PASS THROUGH JOISTS.

14. JOIST SUPPLIER MUST PROVIDE ADEQUATE WEB REINFORCING UNDER CONCENTRATED ROOF LOADS. ALTERNATIVELY, PROVIDE TWO(2) L50X50X4.78 WEB REINFORCING UNDER EACH CONCENTRATED LOAD ON OWSJ TO BOTTOM CHORD PANEL POINT.
15. PROVIDE 40 X 50 X 525 LONG STRAP ANCHOR WITH 50MM BEND AT 800MM O.C. (1½" X ¾" X 21" LONG STRAP ANCHOR WITH 2" BEND AT 24" O.C.) TO ALL FACES PF COLUMNS ABUTTING MASONRY.
16. NO HOLES SHALL BE CUT IN THE BEAMS OR COLUMNS.

FOUNDATIONS:

1. FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 150 kPa (3000 psf). BEARING CAPACITY SHALL BE CONFIRMED BY CBO OR ENGINEER
2. NO FOOTINGS SHALL BE POURED UNTIL THE ENGINEER HAS APPROVED THE FOUNDATION CONDITIONS.
3. THE LINE SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 AND A RUN OF 10.
4. FOUND FOOTINGS WHICH ARE EXPOSED TO FREEZING WEATHER A MINIMUM OF 1200MM (4 FT) BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
5. ERECT, MAINTAIN, AND IF REQUIRED, REMOVE A SUPPORTING SHORING SYSTEM ALONG THE SIDES OF THE EXCAVATION.
6. PROTECT SOIL FROM FREEZING ADJACENT TO AND BELOW ALL FOOTINGS.
7. WHERE THERE IS GRADE ON BOTH SIDES, BACKFILL AGAINST FOUNDATION WALL IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 500MM (20") DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL EXCEPT WHERE TEMPORARY SUPPORT FOR THE WALL IS PROVIDED OR WALLS ARE DESIGNED AS CANTILEVER WALLS.

CONCRETE:

1. CONCRETE IS SPECIFIED USING ALTERNATIVE NUMBER OF CSA A23.1 TABLE 2 AS FOLLOWS:

	EXTERIOR FOUNDATIONS	INTERIOR FLOOR SLAB
EXPOSED CLASS (TABLE 1)	C-1	N
AIR CONTENT CATEGORY (TABLE 4)	1	N/A
MAX. W/C RATIO (TABLE 2)	0.40	0.55
CURING TYPE (TABLE 19)	2	1
MIN. COMPRESSIVE STRENGTH @ 28 DAYS	35 MPa	30 MPA
2. AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF CONCRETE THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW:

- A VALID 'CERTIFICATE OF READY MIXED CONCRETE PRODUCTION FACILITIES' OD A VALID 'CERTIFICATE OF MOBILE MIX CONCRETE PRODUCTION FACILITIES' AS ISSUED BY THE 'READY MIXED CONCRETE ASSOCIATION OF ONTARIO' TO THE PLANT BEING USED.

- A COMPLETED 'CONCRETE MIXED FINAL SUBMISSION FORM'

- A QUALITY PLAN THAT DESIGNATES A SPECIFIED SLUMP OR SOME OTHER MEASURE OF WORKMANSHIP

- TEST RESULTS TO SHOW COMPLIANCE WITH CSA A23.1

- AIR VOID SYSTEM OF HARDENED CONCRETE.

- STATISTICAL STRENGTH TEST ANALYSIS TO CONFIRM THE STRENGTH LEVEL FOR EACH CLASS OF CONCRETE INCLUDING THE EXPECTED 7/28 DAY STRENGTH RATIO
3. FABRICATION AND PLACEMENT OF REINFORCING STEEL TO BE IN ACCORDANCE WITH CSA A23.1 AND THE REINFORCING STEEL INSTITUTE OF CANADA'S 'REINFORCING STEEL MANUAL OF STANDARD PRACTICE'.
4. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO CSA G30.18 M92, Fy=400 MPa (GRADE 400)
5. CONCRETE SHALL NOT BE POURED UNTIL REBAR HAS BEEN INSPECTED BY THE ENGINEER.
6. WHERE REBARS JOIN AT CORNERS PROVIDE CORNER BARS FOR LAPS, UNLESS NOTED OTHERWISE.

600MM (2 FT.)

600MM (2 FT.)
7. CONCRETE COVER FOR REINFORCING STEEL AS PER TABLE 17 OF CSA A23.1

- ALL CONCRETE CAST AGAINST EARTH 76MM

- ALL CONCRETE CAST IN FORMS BUT EXPOSED TO EARTH OR WEATHER 50MM

- BARS 20M AND SMALLER IN WALLS AND SLABS 32MM

- CONCRETE NOT EXPOSED TO EARTH AND WEATHER 25MM OR 1.5 NOMINAL BAR DIAMETER

8. ALL REINFORCING BARS SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BY PRECAST CONCRETE, ADDITION BARS, TIES, TIES OR APPROVED CHAIRS AGAINST DISPLACEMENT.
9. CONTINUOUS AND TEMPERATURE REINFORCING BARS SPLICES TO BE LAPPED 40 BAR DIAMETERS OR A MINIMUM OF 300 AT SPLICES AND CORNERS, UNLESS OTHERWISE SHOWN ON SECTION OR TYPICAL DETAILS. LAP CONTINUOUS TOP BARS AT CENTRE BETWEEN SUPPORTS AND CONTINUOUS ENDS WITH STANDARD HOOKS.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL CONCRETE IS PLACED AND CURED IN CONFORMANCE WITH THE REQUIREMENT OF CSA A23.1-14. THE CONTRACTOR IS RESPONSIBLE FOR ALL HEATING AND HOARDING REQUIRED.
11. ALL EXTERIOR EDGES TO BE CHAMFERED 19MM UNLESS NOTED OTHERWISE.

CEMENTITIOUS GROUT

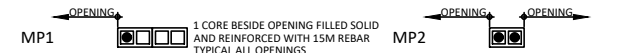
1. CEMENTITIOUS GROUT UNDER BASE PLATES TO BE SIKAGROUT 212.

CONCRETE ANCHORS

1. ALL CONCRETE ANCHORS TO BE HILTI HAS ROD HOT DIPPED GALVANIZED (DIAMETER AS NOTED ON DRAWINGS).
2. ALL CONCRETE ANCHORS TO BE COMPLETE WITH HOT DIPPED GALVANIZED FLAT WASHERS, NUTS, LOCK NUTS, ETC. AS SPECIFIED ON THE DRAWINGS
3. ALL EPOXY ADHESIVE SHALL BE HILTI HIT-HY 200/HIT ICE.
4. INSTALL AS PER MANUFACTURE'S SPECIFICATIONS.

MASONRY

1. ALL MASONRY WORK SHALL CONFORM TO NATIONAL BUILDING CODE LATEST EDITION AND CSA STANDARDS S 304.1 - 'DESIGN OF MASONRY STRUCTURES', LATEST EDITION.
2. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO CAN/CSA A165 SERIES-04 EXCEPT WHERE OTHERWISE SPECIFIED. PROVIDE MASONRY BLOCK WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 MPa
3. LINTELS OVER ALL OPENINGS IN NON LOAD BEARING MASONRY WALLS, UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS.
4. ALL STEEL LINTELS TO HAVE MINIMUM OF 150MM (6") BEARING ON EACH SIDE OF OPENING.
5. PROVIDE MINIMUM OF 2 COURSES OF 100% FILLED SOLID BLOCK 16" LONG MINIMUM FILLED WITH 20 MPa CONCRETE, CENTERED UNDER EACH BEAM AND JOIST BEARING PLATE.
6. MINIMUM BEAM BEARING PLATE UNLESS NOTED FOR JOIST OR BEAM SUPPLIED BY STEEL FABRICATOR  
SP1 - 150MM CONC BLOCK - 250 x 12 x 125  
SP2 - 200MM CONC BLOCK - 250 x 12 x 178  
EACH WITH 1-12MMØ ANCHORS
7. FILL BLOCKS SOLID BELOW BEARING PLATES TWO COURSES, AND ALL LINTEL BLOCKS WITH TYPE M MORTAR 17.5 MPa
8. LOAD BEARING AND NON-LOAD BEARING WALLS TYPE S MORTAR 12.5 MPa
9. PROVIDE HORIZONTAL REINFORCING AT EVERY 2nd BLOCK COURSE USING HEAVY DUTY BLOCK-LOC LADDER REINFORCING.



MASONRY

1. OVER ALL OPENING AND RECESSES IN MASONRY WALLS, INCLUDING THOSE FOR MECHANICAL AND ELECTRICAL SERVICES OR EQUIPMENT, PROVIDE AND INSTALL MASONRY OR STEEL LINTELS IN ACCORDANCE WITH THE REQUIREMENTS OF THE LINTEL SCHEDULE
2. OBTAIN THE ENGINEERS'S PERMISSION FOR ALL OPENINGS, SLEEVES, AND SLOTS THROUGH STRUCTURAL COMPONENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. WHERE DOWELS, ANCHOR BOLTS, ETC., ARE SHOWN PROJECTING INTO MASONRY, GROUT THESE TIGHT INTO MASONRY VOIDS WITH CONCRETE OR CEMENT MORTAR.
4. PROVIDE A MINIMUM OF 400MM (16") DEPTH OF 100% SOLID MASONRY UNITS FOR BEARING OF STEEL, CONCRETE, OR MASONRY LINTELS AND FOR MINIMUM OF 200MM (8") PAST BEARING PLATE EACH SIDE.
5. ALL MASONRY MUST BE SET WITH FULLY FILLED JOINTS USING MORTAR AS DEFINED IN THE NATIONAL BUILDING CODE AND/OR CSA A179M. MORTAR TO BE TYPE 'S' UNLESS NOTED OTHERWISE.
6. PROVIDE A MINIMUM OF 38MM (1½") PORTLAND CEMENT GROUT UNDER ALL WALL PLATES AND BASE PLATES.
7. GROUT SHALL ALSO BE SUPPLIED IN CONCRETE BLOCK WALLS WHEREVER HORIZONTAL OR VERTICAL REINFORCING STEEL IS SPECIFIED. FILL CORES

SOLID WHEREVER GROUT IS REQUIRED.

8. ALL MASONRY GROUT SHALL CONFORM TO CA/CSA A179-04 AND SHALL BE FINE TYPE GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 10 MPa.
9. THE CONCRETE BLOCK SHALL CONFORM TO CSA STANDARD CAN3-A165 SERIES-04
10. THE MASONRY WIRE REINFORCING SHALL CONFORM TO CSA A370-04.
11. MASONRY VENEER CONNECTORS SHALL CONFORM TO AN BE INSTALLED IN ACCORDANCE WITH CSA A370-04
12. NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5 DEGREES CELSIUS UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND PROTECTING THE WORK WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
13. ALL MASONRY CONSTRUCTION SHALL CONFORM TO CSA STANDARDS A371-04.
14. PROVIDE CONTINUOUS TRUSS TYPE JOINT REINFORCING AT 400MM (16") O.C. AND USE "CORNER-LOK" AT ALL WALL INTERSECTIONS. REINFORCING TO BE HOT DIP GALVANIZED AT ASTM A 153 CLASS B2. LONGITUDINAL WIRES TO BE 4.76MM (3/16") DIAMETER, AND DIAGONAL WIRES TO BE 3.66MM DIAMETER (9 GA).
15. ALL METAL ANCHORS TO BE SECURE WALLS EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED.
16. ANCHOR ALL MASONRY TO COLUMNS WITH STEEL STRAP PLATE 40 X 5 X 525MM, 50MM HOOKS AT 600MM O.C. (PLATE 1½" X ¾" X 21", 2" HOOKS AT 24") UNLESS NOTED.
17. PROVIDED LINTELS PER LINTEL SCHEDULE.
18. VERTICAL REINFORCING SHALL BE CONTINUOUS. LAB BARS 450MM (18")
19. REINFORCE ALL OPENINGS THROUGH MASONRY WALLS WITH TWO (2) 15M VERTICAL BARS EACH SIDE OF THE OPENING AND EXTENDING 600MM (16") PAST OPENING.
20. PROVIDE ONE COURSE BOND BEAM COMPLETE WITH TWO (2) 15M CONTINUOUS FOR ALL BEARING WALLS UNDER ROOF STRUCTURES AND ALL FLOOR STRUCTURES.

METAL STUDS

1. ALL METAL STUDS SHALL CONFORM TO ASTM A 446 GRADE A, 228 MPa YEILD FOR STUD 1.14MM (18 GA) OR THINNER. ALL METAL STUDS SHALL CONFORM TO ASTM A446 GRADE D, 345 MPa (50,000 psi) YIELD FOR STUD 1.44MM (16 GA) OR THICKER.
2. THICKNESS OF STUD MUST BE DETERMINED BY SPECIALIST'S ENGINEER BUT MUST NOT BE LESS THAN THE FOLLOWING: ALL STRUCTURAL STUDS SHALL BE OF MINIMUM 1.22MM (18 GA) THICK FOR WALL BACKING MASONRY VENEER, MINIMUM 1.52MM THICK FOR OTHER APPLICATION.
3. STUDS SHALL BE SPACED AT MAXIMUM 500MM (16") ON CENTRE, COMPLETE WITH DEFLECTION TRACKS AT TOP OF WALL.
4. FOR EXTERIOR WALLS: ALL STUDS, BRIDGING AND TRACKS SHALL BE DESIGNED FOR A WIND LOAD ON THE WALL SYSTEM. TO CSA/CAN3-S136 AND IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. MAXIMUM DEFLECTION UNDER WIND LOAD MUST NOT EXCEED SPAN/720 FOR STUD WALL BACKING MASONRY VENEER WALL. OTHERWISE, MAXIMUM DEFLECTION UNDER WIND LOAD MUST NOT EXCEED SPAN/360.
5. FOR INTERIOR WALLS: ALL STUDS, BRIDGING AND TRACKS SHALL BE DESIGNED FOR A WIND LOAD OF 0.3KPa ON THE WALL SYSTEM. TO CSA/CAN3-S136 AND IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. MAXIMUM DEFLECTION UNDER WIND LOAD MUST NOT EXCEED SPAN/360.
6. ALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL CONNECTORS USED SHALL BE OF CORROSIVE RESISTANCE MATERIAL COMPATIBLE WITH GALVANIZED COATING OF STUDS.
7. METAL STUD CONTRACTOR IS FULLY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE STUD WALL SYSTEM AND ALL CONNECTION DETAILS, INCLUDING BRICK TIE CONNECTION AND ANCHOR DETAILS OF THE SYSTEM TO THE MAIN STRUCTURE. SHOP DRAWINGS AND SITE REVIEW REPORTS OF THE STUD WALLS PREPARED BY THE CONTRACTOR'S SPECIALIST ENGINEER COMPLETE WITH P.ENG. SEAL SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND RECORD.



No.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
1	2021/03/25	ISSUED TO ARCHITECT
2	2021/04/23	ISSUED FOR TENDER



TLDSB  
1271 CEDAR LANE  
BRACEBRIDGE, ONT

PROJECT ADDRESS:

TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD

DRAWING TITLE:

STRUCTURAL  
UPGRADES & REPAIRS  
GENERAL NOTES

DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D1	



WOOD

1.

THE STRUCTURAL TIMBER AND LUMBER SHALL BE NO. 1 OR 2 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
2.

THE DESIGN OF THE BEAMS, COLUMNS AND LINTELS IS BASED ON THE LIMIT STATES DESIGN SPECIFIED UNDER CSA STANDARD 086. ANY SUBSTITUTIONS OF SPECIES, GRADE OR GROUP MUST BE APPROVED BY THE ENGINEER PRIOR TO THE COMMENCING OF WORK.
3.

THE LUMBER WAS DESIGNED FOR A MOISTURE CONTENT GREATER THAN 15% AT THE TIME OF MANUFACTURE AND LESS THAN 15% IN SERVICE.
4.

DURING CONSTRUCTION, ENSURE ALL MEMBERS ARE IN GOOD BEARING CONTACT.
5.

CONNECTION HARDWARE IS TO RECEIVE ONE COAT OF ZINC CHROMATE PRIMER OR EQUAL. ENSURE THAT ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD ARE COMPATIBLE WITH THE PRESSURE TREATED CHEMICALS.
6.

ALL PLYWOOD JOINTS ARE TO BE STAGGERED. NAIL ALL FLOOR, ROOF AND WALL SHEATHING AT 150MM (6") O.C. AT EDGES AND 300MM (1') CENTRES ELSEWHERE UNLESS NOTED OTHERWISE.
7.

PROVIDE SOLID BLOCKING IN THE EXTERIOR STUD WALLS AT THE LOCATION OF ALL JOINTS IN THE PLYWOOD AND AT MAXIMUM VERTICAL SPACING OF 1200MM ± (4FT ±), SECURELY NAIL AT A 1500MM (6") MAXIMUM SPACING THE PLYWOOD TO THE SOLID BLOCKING.
8.

ALL PLYWOOD SHALL CONFORM TO CSA STANDARD 0121 OR 0151.
9.

THE ROOF TRUSSES ARE TO BE "FLAT" OWJ OR PROFILED TRUSSES DESIGNED FOR THE SPECIFIED LOADS. THE SUPPLIER IS TO PROVIDE ERECTION AND MEMBER FABRICATION DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED OR LICENSED IN THE PROVINCE OF ONTARIO. THE DRAWING MUST INDICATE DESIGN LOADS, TIMBER SPECIES, GRADES, BRACING AND CONNECTORS. ALL TRUSSES MUST BE ANCHORED WITH APPROPRIATE TIE-DOWN METAL ANCHORS TO RESIST UPLIFT AS CALCULATED AND SHOWN IN THE TRUSS DESIGN CALCULATIONS.
10.

THE BEARING SHOWN ON THE DRAWINGS IS THE MAXIMUM WIDTH TO BE PROVIDED AND THE TRUSS MANUFACTURER MUST DESIGN THE TRUSSES TO SUIT THE BEARING WIDTH.
11.

PROVIDE STANDARD JOIST HANGERS AS REQUIRED BY SIMPSON, RSC OR APPROVED EQUIVALENT.
12.

ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
13.

MAXIMUM BRIDGING SPACING FOR SWAN LUMBER JOISTS SHALL BE 2300MM (7'-6") O.C..
14.

SPIKE EACH LAMINATION OF BUILD-UP BEAMS @ 300MM (1') O.C. AS FOLLOWS:

-

1 ROW OF 90MM (3½") LONG NAILS FOR 140MM (5½") DEPTH.

-

2 ROWS OF 90MM (3½") LONG NAILS FOR GREATER DEPTH.
15.

SPIKE AND GLUE BUILD-UP POSTS @22-MM (8½") O.C. AS PER CODE AS FOLLOWS:

-

1 ROW FOR 38X89 (2"x4")

-

2 ROWS FOR LARGER SIZES
16.

ALL PERMANENT BRACING FOR TRUSSES SHALL BE SECURELY ANCHORED BY BACK BRACING DIAGONALLY OR ATTACHING TO END WALLS ACCORDING TO GUIDELINES PUBLISHED BY THE CANADIAN WOOD TRUSS ASSOCIATION.
17.

CONTINUITY OF POST MUST BE MAINTAINED TROUGH FLOORS BY SOLID BLOCKING OR POST EXTENSIONS.
18.

SHEAR WALLS SHALL BE CONSTRUCTED WHERE NOTED ON DRAWINGS USING ½" PLYWOOD AND MIN 2X3 SPF#2 STUDS SPACED AT 16" O.C. NAILED WITH 2½" ARDOX NAILS SPACED AT 6" O.C. PROVIDE SIMPSON HD8A HOLD DOWN CLIPS AT EACH END.

SUBMITTALS

1.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUBMITTAL OF ALL REQUIRED SHOP OR FABRICATION DRAWINGS IN A TIMELY MANNER.
2.

ALL STRUCTURAL SUBMITTALS SUBMITTED FOR REVIEW MUST FIRST BE REVIEW BY AND STAMPED BY THE GENERAL CONTRACTOR.
3.

THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW:

DRAWING

P.ENG. SEAL

A. REINFORCING STEEL

NO

B. CONCRETE MIX DESIGN

NO

C. STRUCTURAL STEEL (INCLUDING OWSJ)

YES

D. MATERIAL ROOF DECK

YES

E. EXTERIOR METAL STUD FRAMING

YES

F. OPEN WEB STEEL JOISTS

YES

G. WOOD ROOF TRUSS

YES

H. ENGINEERED LUMBER

YES

I. WOOD "I" JOISTS

YES

J. TIMBER FRAME

YES

K. STRUCTURAL INSULATED PANELS (SIP'S)

YES
4.

WHERE NOTED IN THE ABOVE TABLE, STRUCTURAL SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE

- PROVINCE OF ONTARIO.

5.

ALL STRUCTURAL SUBMITTALS WILL BE REVIEWED BY THE ARCHITECT AND THE ENGINEER SOLELY FOR THE CONFORMANCE WITH THE DESIGN INTENT AND THE CONSTRUCTION DOCUMENTS.
6.

ALL SUBMITTALS SHALL CONSIST OF ONE ELECTRONIC PDF COPY OR FOUR PRINTS. ONE COPY WILL BE RETAINED BY THE ENGINEER.

MATERIALS TESTING AND INSPECTION

THE CONTRACTOR SHALL INCLUDE COSTS TO ENSURE THAT THE FOLLOWING QUALITY CONTROL ACTIVITIES ARE UNDERTAKEN DURING THE COURSE OF WORK:

1.

COMPACTION TESTING AS SPECIFIED ON THE DRAWINGS
2.

REBAR INSPECTION PRIOR TO CONCRETE PLACEMENT.
3.

CONCRETE TESTING IN ACCORDANCE WITH CSA A23.1 AND A23.2.

CONTACT TULLOCH ENGINEERING TO OBTAIN PRICING.

FINAL CLEAN UP

1.

AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, THE BUILDING ERECTION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL WASTE CONSTRUCTION MATERIALS, DEBRIS, ETC. FROM THE SITE.
2.

AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP, WIPE AND POWER WASH ALL SURFACES ON THE INTERIOR AND EXTERIOR OF THE BUILDING.

WALL CONSTRUCTION

DEMOLISHED CONSTRUCTION

NEW CONSTRUCTION:  
CONCRETE BLOCK

EXISTING MASONRY:  
CONSTRUCTION TO REMAIN

LINE CONSTRUCTION

-----

DEMOLITION REFERENCE

—————

NEW LINTEL INDICATION

BREAKLINE

ABBREVIATIONS:

ACT	ACOUSTIC CEILING TILES	DIV	DIVISION	IN	INCH, INCHES	OD	OUTSIDE DIAMETRE	SIM	SIMILAR	VNR	VENEER
ADJ	ADJUSTABLE	DO	DOOR OPENING	INCL	INCLUDED, INCLUDING	OF	OUTSIDE FACE	SPEC	SPECIFICATION	VT	VINYL TILE
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	INSUL	INSULATION	OFICI	OWNER	SQ	SQUARE FOOTAGE		
ALU	ALUMINUM	E	EAST	INT	INTERIOR	FINISHED-CONTRACTOR INSTALLED	OWNER	SS	STAINLESS STEEL	W	WEST
ANOD	ANODIZED	EA	EACH	JT	JOINT	OFOI	OWNER	SSM	SOLID SURFACE MATERIAL	W/	WITH
		ELEC	ELECTRICAL	KD	KNOCK DOWN	FURNISHED-OWNER INSTALLED	OVERHEAD	STD	STANDARD	W/O	WITHOUT
		ENCL	ENCLOSURE	KO	KNOCK OUT	OH	OPENING	STL	STEEL	WC	WATER CLOSET
		ETC	ETCETERA			OPNG	OPPOSITE			WG	WALL GUARD
B/B	BACK TO BACK	E/W	EACH WAY			OPP	OPEN TO BELOW	STRUCT	STRUCTURAL	WM	WIRE MESH
BCT	BABY CHANGE TABLE	EXC	EXCAVATION, EXCAVATE			OTB		SUSP	SUSPENDED	WP	WATERPROOFING
BLDG	BUILDING	EXH	EXHAUST	L	LONG, LENGTH	PBO	PROVIDED BY OWNER	SYM	SYMMETRICAL	WT	WEIGHT
BLKG	BLOCKING	EXIST	EXISTING	LB(S)	POUND(S)	PC	PRE-CAST	T/O	TOP OF	WWF	WELDED WIRE FABRIC
BM	BEAM	EXT	EXTERIOR, EXTERNAL	LF	LINEAR FOOT, FEET	PERF	PERFORATED	T/B	TOP AND BOTTOM	WWW	WELDED WIRE MESH
				LH	LEFT HAND	PL	PLATE	TD	TOWEL DISPENSER		
				LKBL	LOCKABLE	PLYWD	PLYWOOD	TEMP	TEMPORARY		
				LP	LOW POINT	PREF	PREFINISHED	THK	THICK		
				LVL	LEVEL	PSI	POUNDS PER SQUARE INCH	TRHLD	THRESHOLD		
						PTD	PAPER TOWEL DISPENSER	TOC	TOP OF CONCRETE		
						PTN	PARTITION	TOS	TOP OF STEEL		
								TPD	TOILET PAPER DISPENSER		
								TYP	TYPICAL		
CG	CORNER GUARD			M	METRE	RAD	RADIUS	ULC	UNDERWRITER'S		
CIP	CAST IN PLACE	F/	FACE OF	MM	MILLIMETRE	RCP	REFLECTED CEILING PLAN	LABORATORIES CANADA	UNEXCAVATED		
CJ	CONTROL JOINT	F/F	FACE TO FACE	MAX	MAXIMUM	REC	RECESSED	UNEXC			
CL	CENTRE LINE	FABR	FABRICATE(ED)	MDF	MEDIUM DENSITY	REF	REFERENCE				
CLR	CLEAR	FD	FLOOR DRAIN	FIBREBOARD		REINF	REINFORCED	UNFIN	UNFINISHED		
CMU	CONCRETE MASONRY UNIT					REQD	REQUIRED	UNO	UNLESS NOTED		
COL	COLUMN	GA	GAUGE	MO	MASONRY OPENING			OTHERWISE			
CONSTR	CONSTRUCTION	GALV	GALVANIZED	MP	MID POINT			US	UNDER SLAB		
CONT	CONTINUOUS	GEN	GENERAL	MTD	MOUNTED			UTIL	UTILITY		
COORD	COORDINATE	GW	GYPSTUM WALL BOARD	MTL	METAL	REV	REVISION, REVISED				
CORR	CORRIDOR	H	HIGH	MULL	MULLION	RH	RIGHT HAND				
CPT	CARPET	HDF	HIGH DENSITY FIBREBOARD			RO	ROUGH OPENING	VB	VINYL BASE		
CT	CERAMIC TILE	HDWR	HARDWARE	N	NORTH	RVL	REVEAL	VCT	VINYL COMPOSITE TILE		
CTR	CENTRE	HM	HOLLOW METAL	N/A	NOT APPLICABLE			VDR	VAPOUR DIFFUSION		
CU	CUBIC	HORIZ	HORIZONTAL	NIC	NOT IN CONTRACT			VENT	VENTILATION		
		HP	HIGH POINT	NO	NUMBER	S	SOUTH	VERT	VERTICAL		
D	DEEP, DEPTH	HT	HEIGHT	NOM	NOMINAL	SC	SOLID CORE	VEST	VESTIBULE		
DBL	DOUBLE	ID	INSIDE DIAMETER	NTS	NOT TO SCALE	SECT	SCHEDULE	VIF	VERIFY IN FIELD		
DEG	DEGREE					SF	SECTION	VOL	VOLUME		
DEMO	DEMOLISH,					SGL	SINGLE				
DEMOLITION											
DET	DETAIL										
DF	DRINKING FOUNTAIN										
DIA	DIAMETER										
DIAG	DIAGONAL										
DIM	DIMENSION										
DISP	DISPENSER										

GRAPHIC SYMBOL LEGEND

CROSS SECTION REFERENCE

(CROSS SECTION DETAIL)

(CORRELATING DRAWING OR SHEET NUMBER)

CROSS SECTION REFERENCE

(CROSS SECTION DETAIL)

(CORRELATING DRAWING OR SHEET NUMBER)

NORTH ARROW



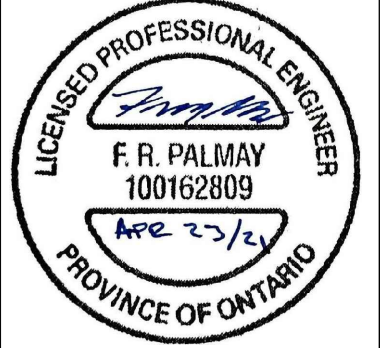
ROOM IDENTIFICATION

RM IDEN

RM NO.



NO.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
1	2021/03/25	ISSUED TO ARCHITECT
2	2021/04/23	ISSUED FOR TENDER



Trillium

Lakelands

DISTRICT SCHOOL BOARD

TLDSB

1271 CEDAR LANE

BRACEBRIDGE, ONT

PROJECT ADDRESS:

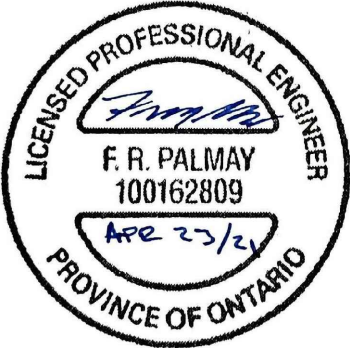
TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD

DRAWING TITLE:

STRUCTURAL  
UPGRADES & REPAIRS  
GENERAL NOTES

DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.		REVISION	DRAWING
20-1636		2	D2

No.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
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2	2021/04/23	ISSUED FOR TENDER

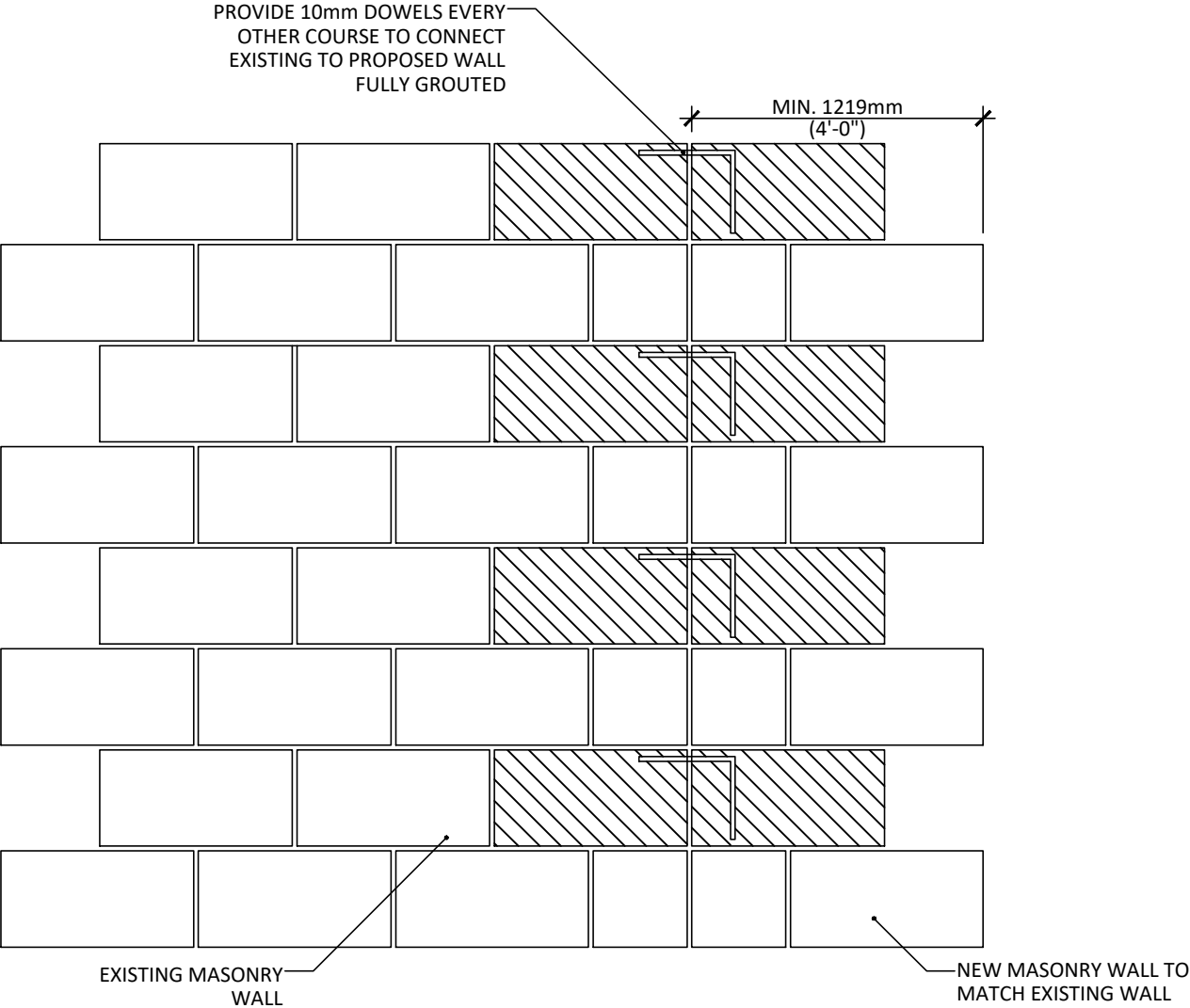


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1271 CEDAR LANE  
BRACEBRIDGE, ONT

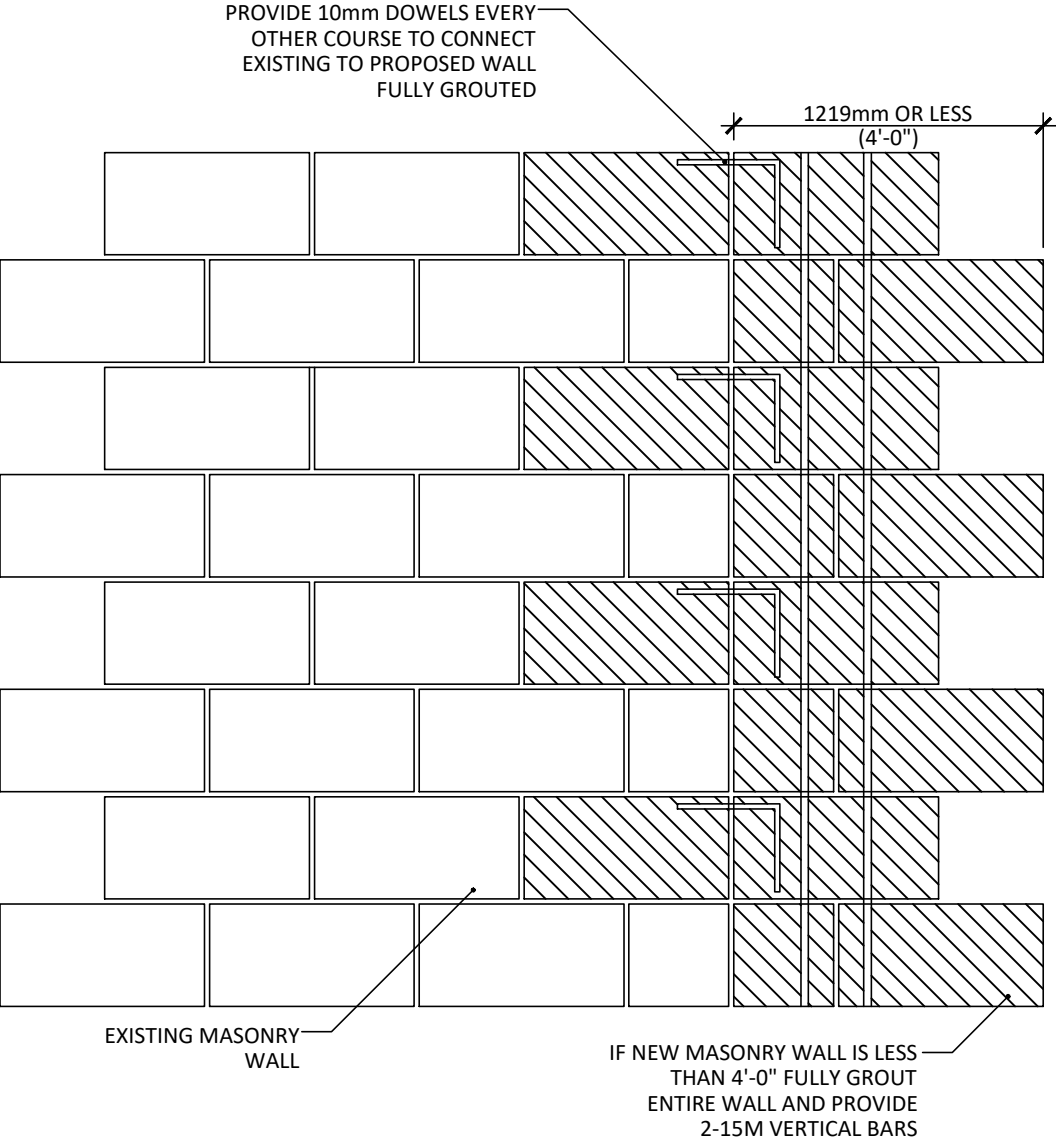
PROJECT ADDRESS:  
**TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD**

DRAWING TITLE:  
**MASONRY INFILL DETAILS**

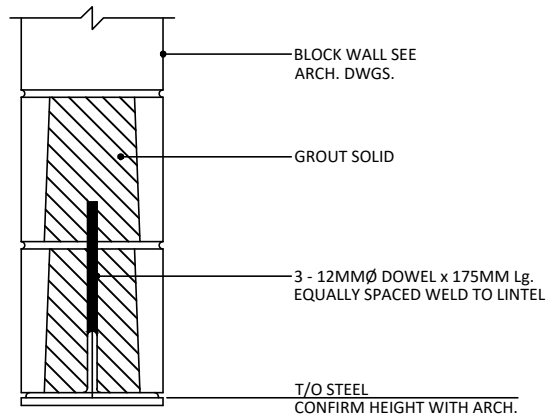
DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D3	



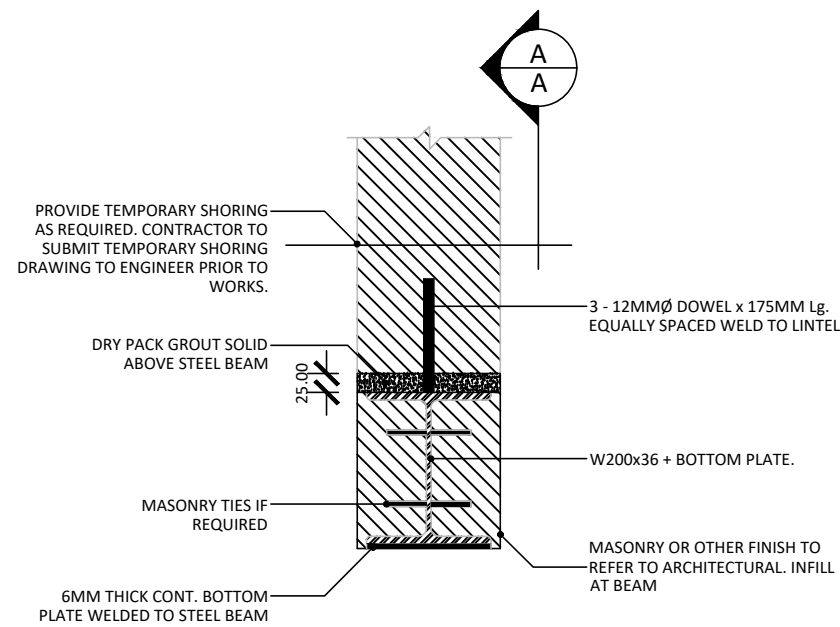
1 MASONRY INFILL OVER 1219mm (4'-0")  
D3 1:15



2 MASONRY INFILL UNDER 1219mm (4'-0")  
D3 1:15



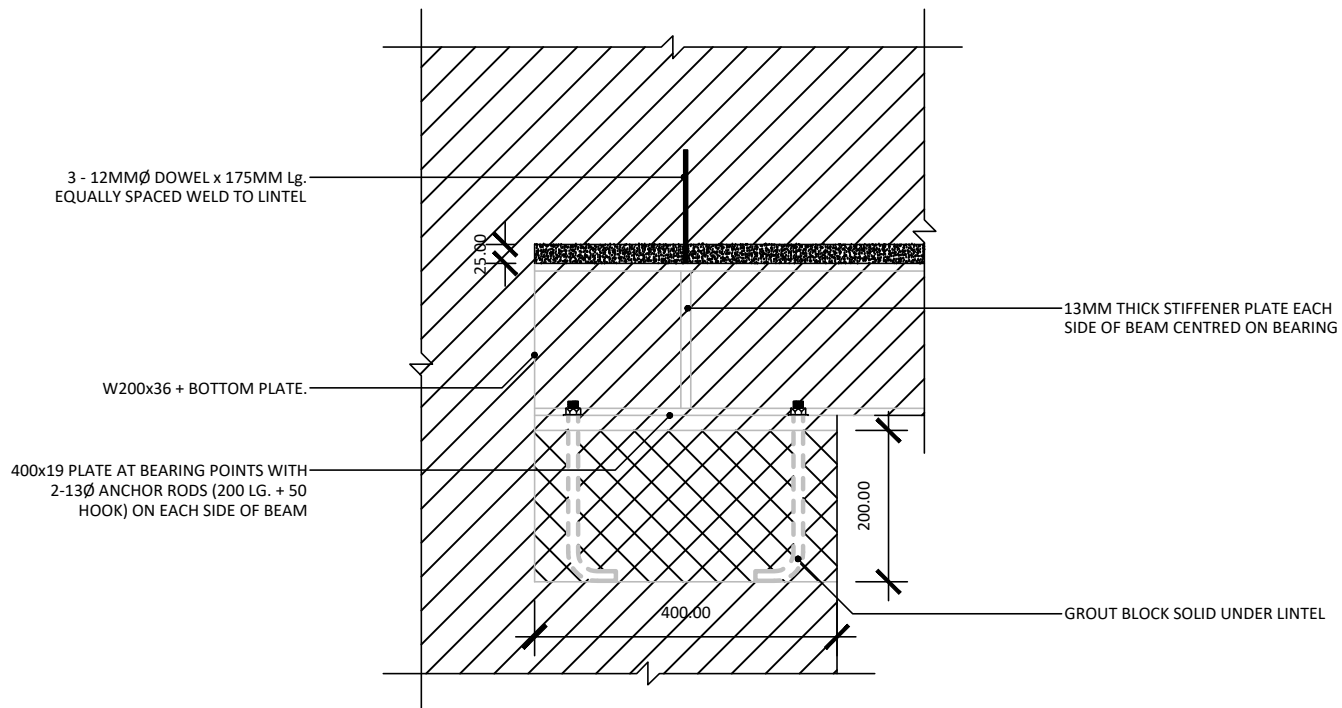
1 LINTEL DETAIL  
D4 1:10



LINTEL L1 NOTES

- CONTRACTOR TO SITE VERIFY EXISTING WALL THICKNESS. SEE BELOW FOR BEAM AND BOTTOM PLATE AND BEARING PLATE WIDTHS.
  - FOR 190 WALL PROVIDE 170mm WIDE PLATE.
  - FOR 240 WALL, PROVIDE 220mm WIDE PLATE.
  - FOR 290 WALL, PROVIDE 270 WIDE PLATE
- CONNECT BOTTOM PLATE TO BEAM WITH 6mm (1/4") WELDS x 50 (2") LG. @ 300 (12") MAX. LOCATE FIRST WELD MAX 75 (3") FROM END OF LINTEL.
- ALL OTHER CONNECTIONS TO BE 6mm (1/4") WELDS FULL LENGTH.
- PROVIDE SHORING AND BRACING AS REQUIRED
- MAX. SPAN FOR W200x36 IS 3.65m (12'-0")

2 LINTEL NOTES  
D4 1:10



3 LINTEL NOTES  
D4 1:10



No.	DATE	REVISION
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BRACEBRIDGE, ONT

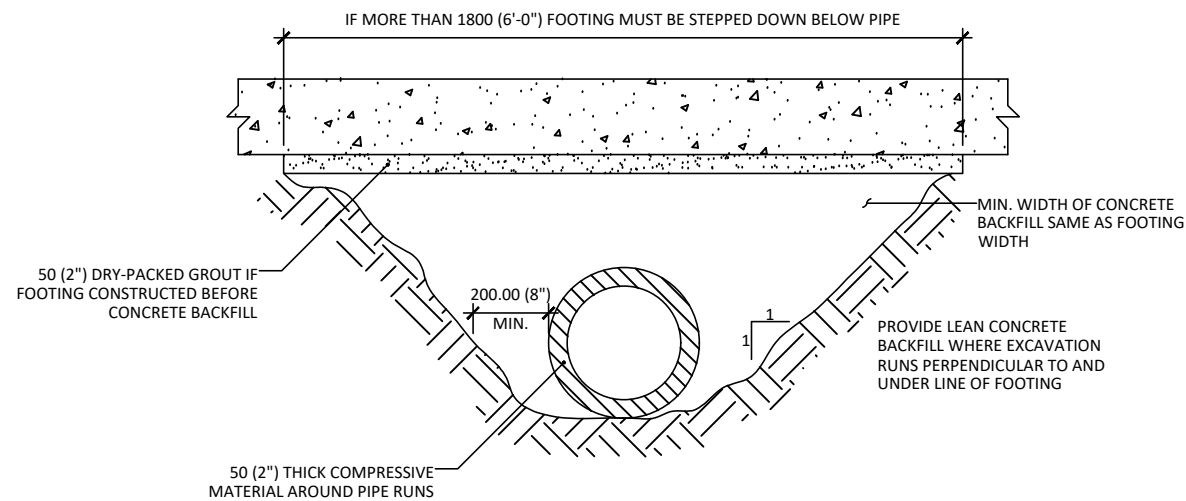
PROJECT ADDRESS:

**TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD**

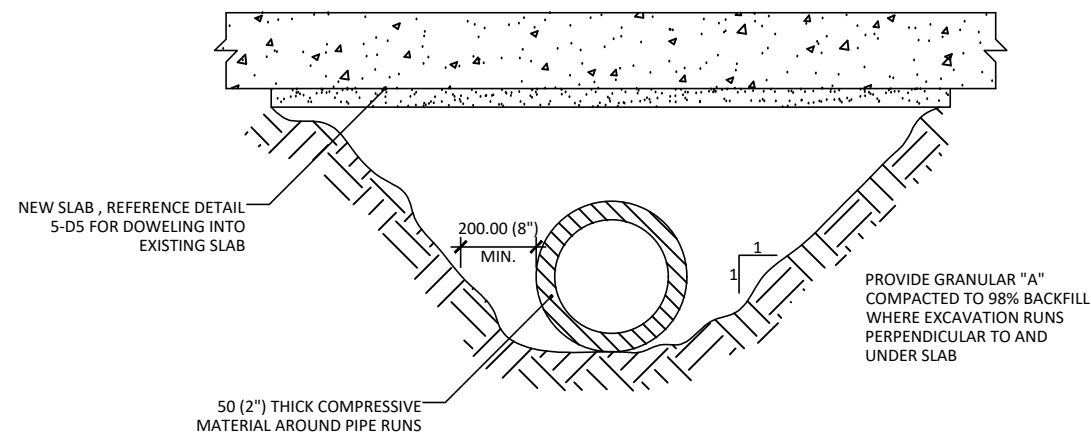
DRAWING TITLE:

**STEEL LINTEL DETAILS**

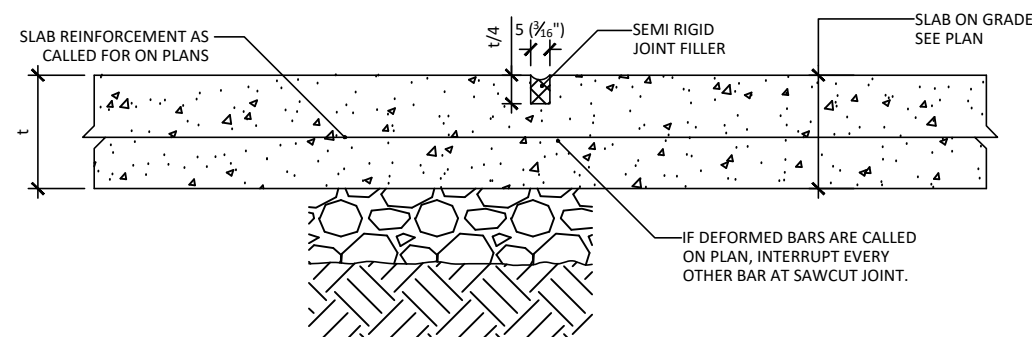
DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE AS NOTED		DATE (M/D/Y) 12/10/2020	
PROJECT No. 20-1636	REVISION 2	DRAWING D4	



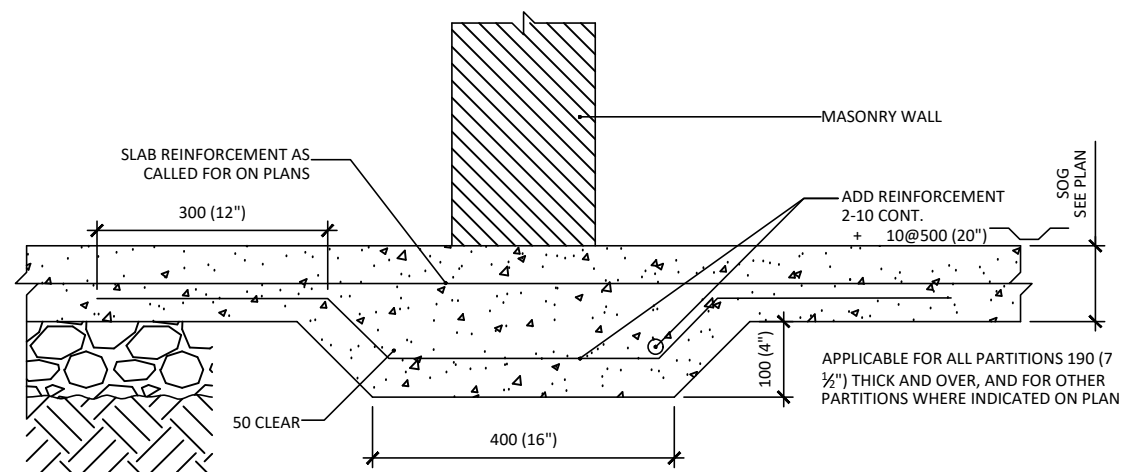
1  
D5  
BACKFILL AROUND PIPE UNDER STRIP FOOTING  
1:20



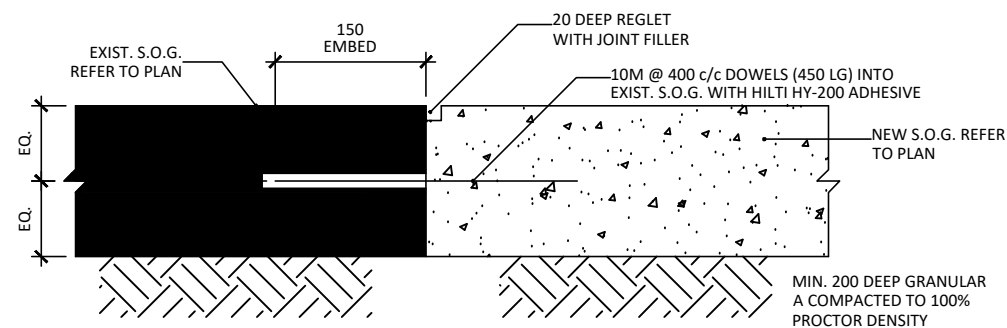
2  
D5  
BACKFILL AROUND PIPE UNDER SLAB ON GRADE  
1:20



3  
D5  
SAWCUT CONTROL JOINT IN SLAB ON GRADE  
1:20



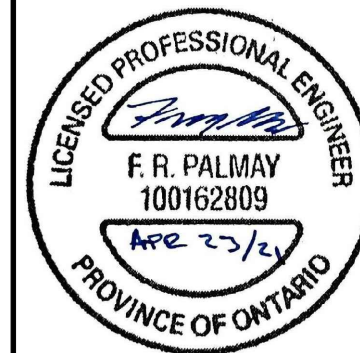
4  
D5  
SLAB ON GRADE THICKENING UNDER MASONRY PARTITIONS  
1:20



5  
D5  
DOWEL TO EXIST SLAB ON GRADE  
1:20



NO.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
1	2021/03/25	ISSUED TO ARCHITECT
2	2021/04/23	ISSUED FOR TENDER



TLDSB  
1271 CEDAR LANE  
BRACEBRIDGE, ONT

PROJECT ADDRESS:

TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD

DRAWING TITLE:

SLAB TRENCHING,  
SLAB THICKENING  
AND BACKFILL DETAILS

DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D5	



FOR CONCRETE STRENGTHS NOT SHOWN BETWEEN 25 TO 50, VALUES ARE TO BE INTERPOLATED FROM NEAREST VALUES PROVIDED IN TABLE BELOW.

TENSION DEVELOPMENT LENGTH FOR BAR GRADE 400 MPa, Ld, IN mm (in")

- BLACK BARS (IN MEMBERS CONTAINING MINIMUM TIES OR STIRRUPS, A MINIMUM SPACING OF 2.0d/b, AND CLEAR COVER OF A MINIMUM OF 1.0d/b; OR ALL SLABS AND WALLS)
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.5 EXCEPT THAT A MULTIPLIER OF 1.2 CAN BE USED WHEN CLEAR COVER IS MORE THAN 3x BAR DIAMETER AND CLEAR SPACING BETWEEN BARS IS MORE THAN 6x BAR DIAMETER.
- FOR SEMI LOW DENSITY CONCRETE MULTIPLY VALUES IN TABLE BY 1.2.
- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 10% FOR A TWO BAR BUNDLE, 20% FOR A THREE BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE
- "TOP" MEANS THAT THERE IS MORE THAN 300 (12") OF CONCRETE BELOW, AND LESS THAN 300 (12") OF CONCRETE ABOVE THE HORIZONTAL BAR WITHIN THE INDIVIDUAL CONCRETE POUR.
- ALL VERTICAL BARS ARE CONSIDERED "BOTTOM" WITH MINIMUM STIRRUPS OR TRANSVERSE REINFORCEMENT AND A MIN SPACING OF 2.0Db

BAR SIZE	f <sub>c</sub> = 25		f <sub>c</sub> = 30		f <sub>c</sub> = 35		f <sub>c</sub> = 40		f <sub>c</sub> = 50	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
10	300 (12")	380 (15")	300 (12")	350 (14")	300 (12")	320 (13")	300 (12")	300 (12")	300 (12")	300 (12")
15	440 (17")	570 (23")	400 (16")	520 (21")	370 (14")	480 (19")	350 (14")	450 (18")	310 (12")	400 (16")
20	580 (23")	750 (30")	530 (21")	690 (27")	490 (19")	640 (25")	460 (18")	600 (24")	410 (16")	530 (21")
25	900 (36")	1170 (46")	830 (32")	1070 (42")	770 (30")	990 (39")	720 (28")	930 (37")	640 (25")	830 (33")
30	1080 (43")	1410 (55")	990 (39")	1290 (51")	920 (36")	1190 (47")	860 (34")	1110 (44")	770 (30")	1000 (39")
35	1260 (50")	1640 (65")	1160 (46")	1500 (60")	1070 (42")	1390 (55")	1000 (40")	1300 (52")	900 (35")	1160 (46")

CLASS B TENSION LAP SPLICES LENGTH FOR BAR GRADE 400 MPa IN mm (in")

- BLACK BARS (IN MEMBERS CONTAINING MINIMUM TIES OR STIRRUPS, A MINIMUM SPACING OF 2.0d/b, AND CLEAR COVER OF A MINIMUM OF 1.0d/b; OR ALL SLABS AND WALLS)
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.5 EXCEPT THAT A MULTIPLIER OF 1.2 CAN BE USED WHEN CLEAR COVER IS MORE THAN 3x BAR DIAMETER AND CLEAR SPACING BETWEEN BARS IS MORE THAN 6x BAR DIAMETER
- FOR SEMI LOW DENSITY CONCRETE MULTIPLY VALUES IN TABLE BY 1.2
- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 10% FOR A TWO BAR BUNDLE, 20% FOR A THREE BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE
- "TOP" MEANS THAT THERE IS MORE THAN 300 (12") OF CONCRETE BELOW, AND LESS THAN 300 (12") OF CONCRETE ABOVE THE HORIZONTAL BAR WITHIN THE INDIVIDUAL CONCRETE POUR.
- ALL VERTICAL BARS ARE CONSIDERED "BOTTOM"

BAR SIZE	f <sub>c</sub> = 25		f <sub>c</sub> = 30		f <sub>c</sub> = 35		f <sub>c</sub> = 40		f <sub>c</sub> = 50	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
10	380 (15")	490 (19")	350 (14")	450 (18")	320 (13")	420 (17")	300 (12")	390 (15")	300 (12")	350 (14")
15	570 (23")	740 (29")	520 (21")	670 (27")	480 (19")	620 (25")	450 (18")	580 (23")	400 (16")	520 (20")
20	750 (29")	980 (39")	690 (27")	890 (35")	640 (25")	830 (33")	600 (24")	770 (30")	530 (21")	690 (27")
25	1170 (46")	1530 (61")	1070 (42")	1390 (55")	990 (39")	1290 (51")	930 (37")	1210 (48")	830 (33")	1080 (43")
30	1410 (56")	1830 (72")	1290 (51")	1670 (66")	1190 (47")	1550 (61")	1110 (44")	1450 (57")	1000 (39")	1300 (51")
35	1640 (65")	2130 (84")	1500 (60")	1950 (77")	1390 (55")	1800 (72")	1300 (52")	1690 (67")	1160 (46")	1510 (59")

MINIMUM TENSION EMBEDMENT LENGTH WITH STANDARD END HOOKS FOR BAR GRADE 400 MPa IN mm (in")

- BLACK BARS
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.2
- FOR SEMI LOW DENSITY CONCRETE MULTIPLY VALUES IN TABLE BY 1.2
- IF SIDE COVER (PERPENDICULAR TO THE PLANE OF THE HOOK) IS < 60 (2.5") DIVIDE VALUES IN TABLE BY 0.70.

BAR SIZE	f <sub>c</sub> = 25	f <sub>c</sub> = 30	f <sub>c</sub> = 35	f <sub>c</sub> = 40	f <sub>c</sub> = 50
10	150 (6")	150 (6")	150 (6")	150 (6")	150 (6")
15	210 (8")	200 (8")	180 (7")	170 (7")	150 (6")
20	280 (11")	260 (10")	240 (10")	230 (9")	200 (8")
25	350 (14")	320 (13")	300 (12")	280 (11")	250 (9")
30	420 (17")	390 (16")	360 (14")	340 (14")	300 (11")
35	490 (20")	450 (18")	420 (17")	390 (16")	350 (13")

1

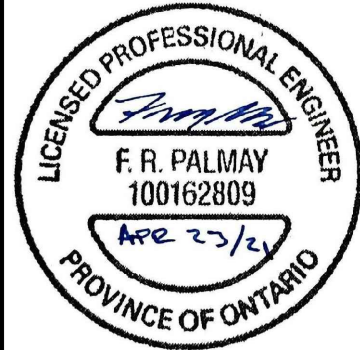
TENSION DEVELOPMENT LENGTHS AND TENSION LAP SERVICES - BAR GRADE 400 MPa

D6

NOT TO SCALE



No.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
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2	2021/04/23	ISSUED FOR TENDER



**TLDSB**  
1271 CEDAR LANE  
BRACEBRIDGE, ONT

PROJECT ADDRESS:

**TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD**

DRAWING TITLE:

**REINFORCING STEEL  
DEVELOPMENT LENGTH  
REQUIREMENTS**

DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D6	

ANCHOR TYPE		
ANCHOR SIZE	HILTI KB-TZ (IN CONCRETE)	HILTI HIT HY-150 MAX + HAS -E RODS (IN CONCRETE OR GROUTED MASONRY)
12 (1/2")	83 (3 1/4")	114 (4 1/2")
16 (5/8")	102 (4")	143 (5 5/8")
19 (3/4")	121 (4 3/4")	172 (6 3/4")
25 (1")	-	229 (9")

NOTES:

- ALL ANCHORS TO HAVE STANDARD EMBEDMENT LENGTHS, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- FOLLOW INSTALLATION PROCEDURE AND USE TOOLS SPECIFIED IN HILTI INSTALLATION MANUALS.
- IF HILTI HIT- HY 150 ANCHORS ARE INSTALLED IN GROUTED MASONRY, LOCATE MINIMUM 25 (1") CLEAR OF ANY VERTICAL MORTAR JOINT.
- RELOCATE ANCHORS AS REQUIRED TO CLEAR REINFORCING BARS. FILL ABANDONED ANCHOR HOLES WITH MIN. 30 MPa GROUT. DO NOT TIGHTEN ADJACENT ANCHORS UNTIL GROUT IN ABANDONED HOLES REACHES 75% fc'. DO NOT CUT ANY REBARS.
- IF HILTI- HIT HY 150 MAX ADHESIVE IS USED TO ANCHOR REBARS, SEE DRAWINGS FOR EMBEDMENT LENGTHS.

1

D7

STANDARD EMBEDMENT LENGTHS FOR HILTI ANCHORS  
NOT TO SCALE

TYPICAL STEEL LINTEL LOAD BEARING MASONRY WALL

WALL THICKNESS	ANGLE SPAN	DETAIL
90 (4") VENEER	L152x89x13	
140 (6")	2-L127x76x13	
190 (8")	2-L152x89x13	
240 (10")	2-L178x102x13	
290 (12")	2-L203x152x19	

WHEN EXISTING WALL HAS BOTH VENEER AND BLOCK BACKUP, PROVIDE LINTELS FOR BOTH VENEER AND BACKUP BLOCK

2

D7

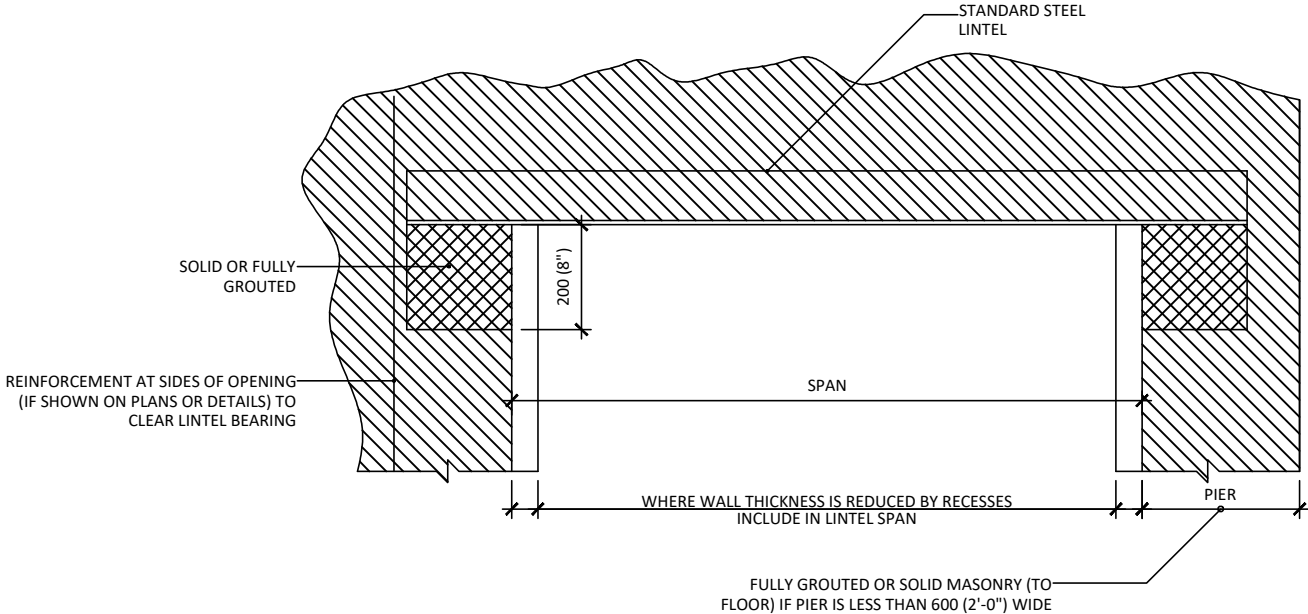
TYPICAL STEEL LINTEL IN NON LOAD BEARING MASONRY WALLS  
1:20

TYPICAL STEEL LINTEL NON-LOAD BEARING MASONRY WALL

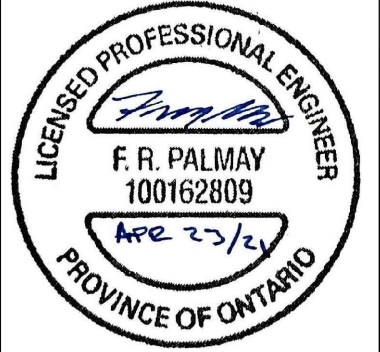
WALL THICKNESS	SPAN	ANGLE SIZE	DETAIL
90 (4") VENEER	UP TO 1200 (4'-0")	L89x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	L127x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	L127x89x6.4	
	2400 (8'-0") TO 3000 (10'-0")	L152x89x9.5	
140 (6")	UP TO 1200 (4'-0")	2- L64x64x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2 - L89x64x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2 - L89x64x7.9 W/ 100x10 PLATE	
	2400 (8'-0") TO 3000 (10'-0")	---	
190 (8")	UP TO 1200 (4'-0")	2 - L76x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2 - L89x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2 - L102x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2 - L152x89x7.9	
240 (10")	UP TO 1200 (4'-0")	2 - L76x102x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2 - L102x102x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2 - L102x102x9.5	
	2400 (8'-0") TO 3000 (10'-0")	2 - L152x102x7.9	
290 (12")	UP TO 1200 (4'-0")	3 - L79x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	3 - L89x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	3 - L102x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	3 - L127x89x7.9	

NOTES:

- CONNECT BACK TO BACK DOUBLE ANGLES USING MIN. 16 (5/8") Ø BOLTS @ 450 (1'-6") MAX, OR BY WELDING @ TOP & BOTTOM USING 6mm (1/4") WELDS x 50 (2") LG. @ 450 (1'-6") MAX. LOCATE FIRST CONNECTION MAX. 75 (3") FROM END OF LINTEL.
- PROVIDE STEEL PACKING AS REQUIRED TO ENSURE EVEN BEARING OF STEEL LINTELS.
- STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS. SEE PLANS FOR SPECIAL LINTELS.



NO.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
1	2021/03/25	ISSUED TO ARCHITECT
2	2021/04/23	ISSUED FOR TENDER

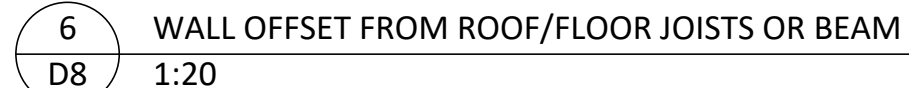
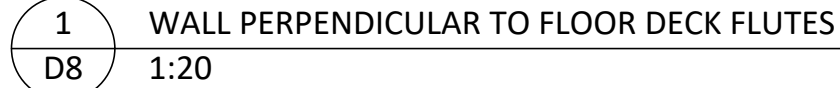


TLDSB  
1271 CEDAR LANE  
BRACEBRIDGE, ONT

PROJECT ADDRESS:  
**TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD**

DRAWING TITLE:  
**NON- LOAD BEARING  
MASONRY LINTEL DETAIL &  
HILTI ANCHOR SCHEDULE**

DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D7	



- 

**TLDSB**  
1271 CEDAR LANE  
BRACEBRIDGE, ONT

TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD

## LATERAL SUPPORT OF EXISTING MASONRY WALLS

SCALE	DATE (M/D/Y)
AS NOTED	12/10/2020

PROJECT No.	REVISION	DRAWING
20-1636	2	D8



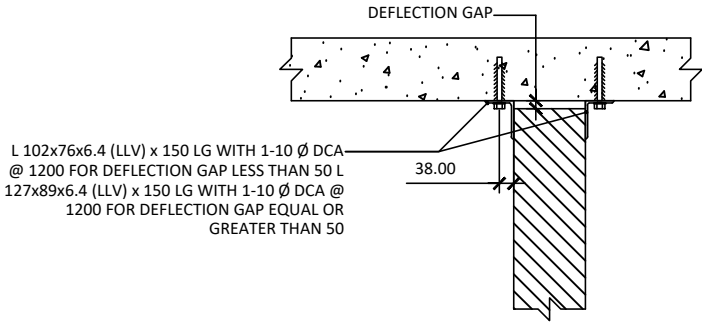
No.	DATE	REVISION
0	2021/03/05	ISSUED TO ARCHITECT
1	2021/03/25	ISSUED TO ARCHITECT
2	2021/04/23	ISSUED FOR TENDER



PROJECT ADDRESS:  
**TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD**

DRAWING TITLE:  
**LATERAL SUPPORT OF  
NEW AND EXISTING  
MASONRY WALLS**

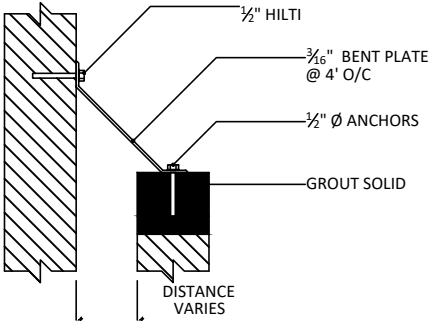
DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D9	



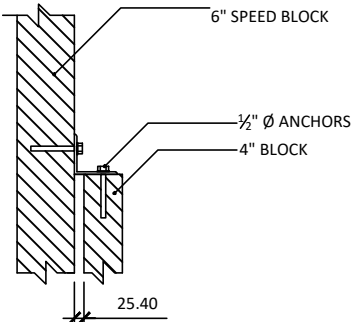
WALL AT CONCRETE SLAB

- NOTES:
- DCA TO BE HILTI KB-3 WITH 64 EMBEDMENT
  - PROVIDE 30mm DEFLECTION GAP TYPICAL U/N
  - MINIMUM WALL THICKNESS IS 140 FOR INTERIOR WALLS AND 190 FOR EXTERIOR WALLS. WALL HEIGHT SHALL NOT EXCEED 36 TIMES WALL THICKNESS FOR INTERIOR WALLS AND 20 TIMES WALL THICKNESS FOR EXTERIOR WALLS.
  - FOR EXTERIOR WALL LATERAL SUPPORT INCREASE 150 LG. ANGLE/BENT PLATE SHOWN IN THE DETAILS TO 250 LG. AND REPLACE 2-10 Ø DCA WITH 2-12 Ø DCA + INCREASE ALL BENT PLATES TO 6mm THICK.
  - FOR CONCEALED LATERAL SUPPORT REFER TO ARCH. SPEC. AND DRAWINGS

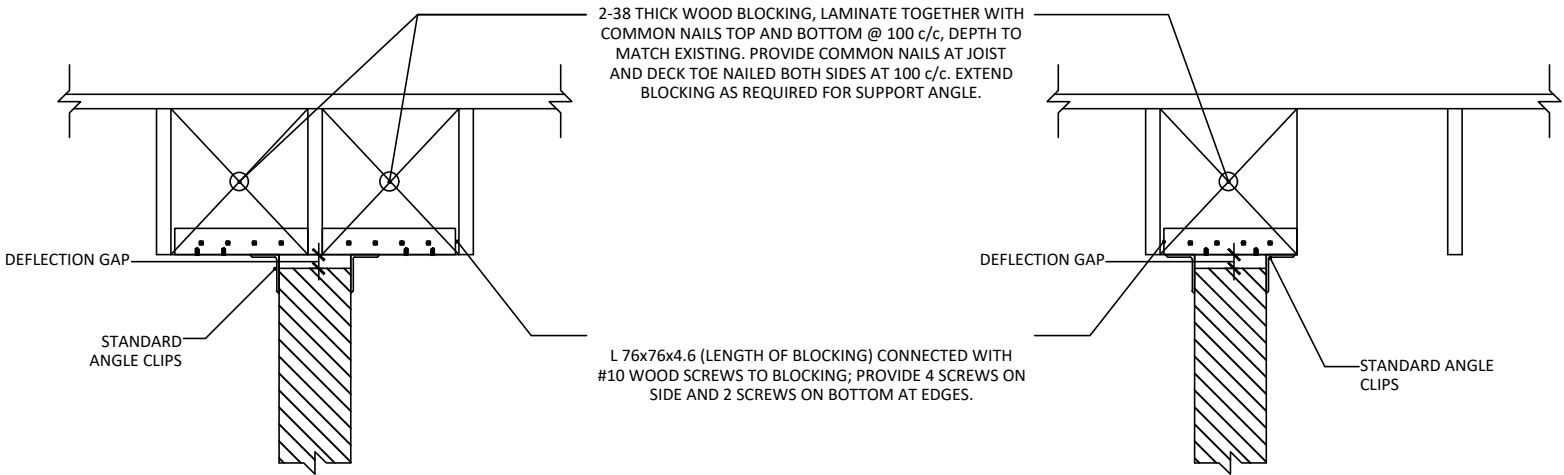
1  
D9  
LATERAL SUPPORT OF NEW NON-LOADBEARING  
MASONRY WALL AT EXISTING CONCRETE STRUCTURE  
1:20



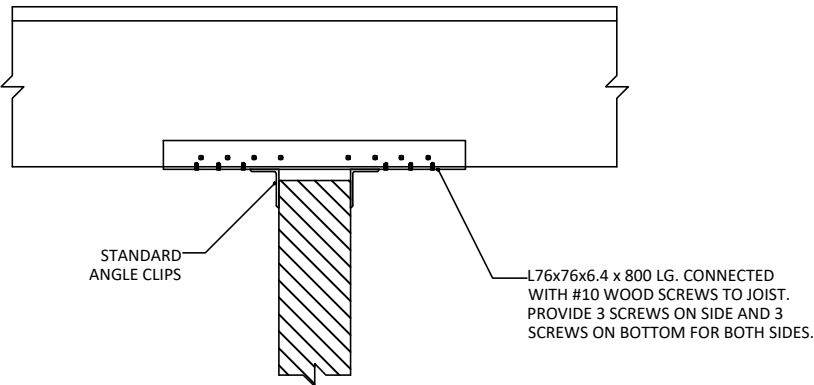
2  
D9  
PARALLEL WALL SUPPORT  
1:20



3  
D9  
LATERAL WALL SUPPORT  
1:20

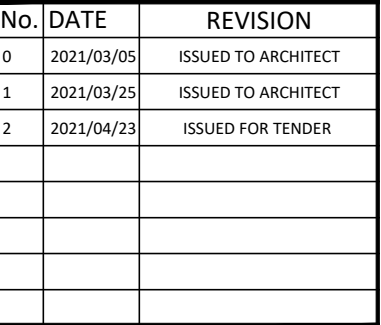


4  
D9  
PARALLEL TO WOOD JOIST  
1:20



5  
D9  
PERPENDICULAR TO WOOD JOIST  
1:20

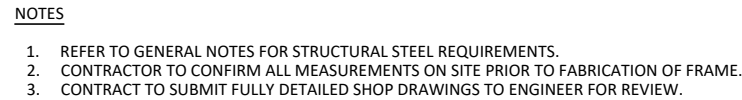
- NOTES:
- PROVIDE STANDARD CLIP ANGLES AT 1200 c/c TYP. FOR DEFLECTION GAP LESS THAN 50 PROVIDE L 120x76x6.4 (LLV) x 150 LG. FOR DEFLECTION GAP EQUAL OR GREATER THAN 50 PROVIDE L 127x89x6.4 (LLV) x 150 LG. UNLESS NOTED OTHERWISE WELD CLIP TO SUPPORT ANGLE. DO NOT WELD NEAR WOOD STRUCTURE.
  - PROVIDE 30mm DEFLECTION GAP TYP. UNO.
  - MINIMUM WALL THICKNESS IS 140 FOR INTERIOR WALLS AND 190 FOR EXTERIOR WALLS. WALL HEIGHT SHALL NOT EXCEED 36 TIMES WALL THICKNESS FOR INTERIOR WALLS AND 20 TIMES WALL THICKNESS FOR EXTERIOR WALLS.
  - FOR CONCEALED LATERAL SUPPORT REFER TO ARCH SPEC AND DRAWINGS.



TRILLIUM LAKELANDS  
DISTRICT  
SCHOOL BOARD

## HSS STEEL FRAME FOR ADULT CHANGE TABLE

DRAWN	DESIGNED	CHECKED	APPROVED
HD	FP	FP	FP
SCALE		DATE (M/D/Y)	
AS NOTED		12/10/2020	
PROJECT No.	REVISION	DRAWING	
20-1636	2	D10	



1 PERPENDICULAR TO FRAMING ABOVE  
D10 1:20