Interior Renovations for

HWDSB Norwood Park Accessibility Upgrades

165 Terrace Dr, Hamilton, Ontario

BUILDING PERMIT DRAWING SET

ABBREVIATIONS

A	
A/C	AIR CONDITIONING
A/PNL	ACOUSTIC PANEL
AB	ANCHOR BOLT
ABV	ABOVE
AC	ACOUSTIC
AC/PNL	ACRYLIC PANEL
ACC	ACCESS
ACCD	ACCESS DOOR (HINGED)
ACI	AMERICAN CONCRETE INSTITUTE
ACM	ACOUSTIC MEMBRANE
ACPL	ACOUSTICAL PLASTER
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ADJUST	ADJUSTABLE
ADO/M	AUTOMATIC DOOR OPERATOR – MOTION DETECTOR OPERATION
ADO/P	AUTOMATIC DOOR OPERATOR – PUSH PLATE OPERATION
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	ACOUSTIC METAL PANEL
ANCH	ANCHOR, ANCHORAGE
ANN/PNL	ANNUNCIATOR PANEL
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL (NON–HINGED)
APPROX	APPROXIMATE
ASBEST	ASBESTOS
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AUTO	AUTOMATIC
AVB	AIR/VAPOUR BARRIER
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWMAC	ARCHITECTURAL WOODWORK MANUFACTURERS ASS. OF CANADA
AWP	ACOUSTIC WALL PANEL
B	
B/BD	BACKER BOARD
B/O	BOTTOM OF
B/PL	BASE PLATE
B/S	BOTH SIDES
BAS	BUILDING AUTOMATION SYSTEM
BITUM	BITUMINOUS
BLK	BLACK BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BENCH MARK
BN	BULLNOSE
BO	BOARD
BRG	BEARING
BRK	BRICK
BRZ	BRONZE
BSMT	BASEMENT
BTM	BOTTOM
BTWN	BETWEEN
BULKHD	BULKHEAD
BUR	BUILT UP ROOF
BUSH CONC	BUSHHAMMERED CONCRETE
BW	BOTH WAYS
C	
C/W	COMPLETE WITH
CAB	CABINET
CAULK	CAULKING
CB	CATCH BASIN
CEM	CEMENT
CEM/BD	CEMENTITIOUS BOARD
CEM/FIN	CEMENT FINISH
CEM/PLAS	CEMENT PLASTER
CL/CENTL	CENTRE LINE
CER	CERAMIC
CG	CORNER GUARD
CGSB	CANADIAN GENERAL STANDARDS BOARD
CH	COAT HOOK
CHALKBD	CHALKBOARD
CI	CAST IRON
CIRC	CIRCULAR/CIRCULATION
CJ	CONSTRUCTION JOINT
CL	CLOSET
CLG	CEILING
CLR	CLEAR (ANCE)
CLR/CONC	COLOURED CONCRETE
CLR/GL	CLEAR GLASS
CLWG	CLEAR WIRED GLASS
cm	CENTIMETER (S)
CMU	CONCRETE MASONARY UNIT
CO	CLEAR OUT
COL	COLUMN
COMBIN	COMBINATION
COMM	COMMUNICATION
COMP	COMPACTED
COMPT	COMPARTMENT
COMPOS	COMPOSITION (COMPOSITE)
CONC	CONCRETE
CONNECT	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACT (OR)
CORR	CORRUGATED
CPBD	CUPBOARD
CPR	COPPER
CPT	CARPET
CPT–T	CARPET TILE
CR	CHROMINUM (PLATED)
CRCI	CONTRACTOR REMOVED, CONTRACTOR INSTALLED
CRS	COURSE (S)
CSA	CANADIAN STANDARDS ASSOCIATION
CSCI	CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
CSMT	CASEMENT
CT	CERAMIC TILE
CTJ	CONTROL JOINT
CTR	COUNTER
CTSK	COUNTERSUNK
cc or cm?	CUBIC CENTIMETER
D	
D/F	DRINKING FOUNTAIN
DAMP	DAMPER
DCS	DIAPER CHANGE STATION
DEC FIN	DECORATIVE FINISH
DEM	DEMOLISH/DEMOLITION
DEPRESS	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DMP	DEMOUNTEDABLE PARTITION
DN	DOWN
DPC	DAMPERROOF COURSE
DR	DOOR
DWG	DRAWING
DWR	DRAWER
DW	DRYWALL
E	
E	EAST
E/PT	EPOXY PAINT
EF	EACH FACE
EHO	ELECTRIC HOLD OPEN
EIFS	EXTERIOR INSULATED AND FINISH SYSTEM
EL	ELEVATION (ABOVE DATUM)
ELEC	ELECTRICAL
ELEV	ELEVATOR
EL PNL	ELECTRICAL PANELBOARD
EMERG	EMERGENCY
ENCL	ENCLOSURE (URE)
ENT	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXPOSED SLAB PAINTED
ESTIM	ESTIMATE
EXCAV	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXPJT	EXPANSION JOINT
EXPOS STRUC	EXPOSED STRUCTURE
EXT	EXTERIOR
F	
F	FIXED
F/GL	FROSTED GLASS
FA	FIRE ALARM
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F (CONT.)	
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FHE	FIRE EXTINGUISHER CABINET
FIBER	FIBERGLASS
FIN	FINISH (ED)
FIRE SEP	FIRE SEPARATION
FL	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOORING
FLUOR	FLOURESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS/STEEL
FRR	FIRE RESISTANCE RATED
FR	FRAME (D) (ING)
FIRE RET	FIRE RETARDANT
FP	FIREPLACE
ft.	FOOT
FTG	FOOTING
FURR	FURRED (ING)
FUT	FUTURE
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE (ING)
GFT	GLASS FIBRE TILE
GL	GLASS (FLOAT)
GL BLK	GLASS BLOCK
GND	GROUND
GR	GRANITE
GRAN	GRANULAR
GWB	GYPSUM WALL BOARD
GWB/AR	GYPSUM WALL BOARD, ABUSE RESISTANT
GWG	GEORGIAN WIRED GLASS
GXT	GYPSUM TEXTURE SPRAY
GYP	GYPSUM
H	
HARD	HARDENED
HDBD	HARDBOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDR	HEADER
HDRY	HAND DRYER
HDWRE	HARDWARE
HEX	HEXAGONAL
HH	HANDHOLE
HM	HOLLOW METAL
HNDRL	HAND RAIL
HOR	HORIZONTAL
HP	HYDRO POLE
HR	HOUR
HSKP	HOUSEKEEPING
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING/VENTILATION/ AIR CONDITIONING
HWH	HOT WATER HEATER
HWT	HOT WATER TANK
HYD	HYDRAULIC
I	
ID	INSIDE DIAMETER
in.	INCH
INCL	INCLUDE (D) (ION)
INSUL	INSULATE (D) (ION)
INT	INTERIOR
INTERMED	INTERMEDIATE
INV	INVERT
IRMA	INVERTED ROOF MEMBRANE ASSEMBLY
J	
JAN	JANITOR
JB	JUCTION BOX
JT	JOINT
K	
kg	KILOGRAM
KIT	KITCHEN
KO	KNOCKOUT
kPa	KILOPASCALS
L	
l or L	LITRE/LENGTH
LAB	LABORATORY
LAM/GL	LAMINATED GLASS
LAV	LAVATORY
lb	POUND (S)
LBL	LABEL
LC	LIGHT CONTROL
LD/GL	LEADED GLASS
LH	LEFT HAND
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LL	LIVE LOAD
LP	LOW PRESSURE
LT	LIGHT
LT STD	LIGHT STANDARD
LVB	LOUVRE BLIND
LVR	LOUVRE
LW	LIGHTWEIGHT
LWC	LIGHT CONCRETE
M	
m	METRE (S)
MANUF	MANUFATURER (ER)
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MBRB	MEMBRANE
MCL	METAL UNDER CEILING
ME	MATCH EAST
MECH	MECHANIC (AL)
MED	MEDIUM
MED CAB	MEDICINE CABINET
MET GR CLC	METAL GRID CEILING
MET/LIN	METAL LINEAR
MET/PNL	METAL PANEL
MEZZ	MEZZANNE
MH	MANHOLE
MHO	MAGNETIC HOLD OPEN
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
mm	MILLIMETRE (S)
MO	MASONRY OPENING
MOD	MODULAR
MOD–BIT	MODULAR BITUMEN
MOULD	MOULDING
MPa	MEGAPASCAL
MTL	METAL
MTO	MINISTRY OF TRANSPORTATION ONTARIO
N	
N	NORTH
NAT	NATURAL
NBC	NATIONAL BUILDING CODE
ND	NAPKIN DISPOSAL
NIC	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
OA	OVERALL
OBC	ONTARIO BUILDING CODE
OC	ON CENTRE (S)
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OPSS	ONTARIO PROVINCIAL STANDARD SPECIFICATION
ORCI	OWNER REMOVED, CONTRACTOR INSTALLED
OSCI	OWNER SUPPLIED, CONTRACTOR INSTALLED
OSOI	OWNER SUPPLIED, OWNER INSTALLED
OV	OVEN
OWSJ	OPEN WEB STEEL JOISTS
oz.	OUNCE
P	
PAR	PARALLEL
PARK	PARKING
PTD	PAINT (ED)
pcf	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PEGBD	PEGBOARD
PERF	PERFORATED
P (CONT.)	
PERIM	PERIMETER
PL	PROPERTY LINE/PLATE
P/LAM	PLASTIC LAMINATE
PLAST	PLASTER
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITION
PR	PAIR
PREC/CONC	PRECAST CONCRETE
PREFAB	PREFABRICATE (D)
PREFIN	PREFINISHED
PREFORM	PREFORMED
PRESS. TREAT.	PRESSURE TREATED
PRINT	PRINTER
PROF	PROFILE
PROJ	PROJECT/PROJECTING
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PTD	PAINTED
PTN	PARTITION
PTWD	PRESSURE TREATED WOOD
PVC	POLYVINYL CHLORIDE OR COATING
Q	
QT	QUARRY TILE
R	
R/S	ROD AND SHELF
RA	RETURN AIR
RAD	RADIUS/RADIATOR
RAG	RETURN AIR GRILLE
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECP	RECEPTACLE
REF	REFERENCE
REFL	REFLECTIVE/REFLECTED
REFRIG	REFRIGERATOR
REG	REGISTER
REM	REMOVE
REQD	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISION (S), REVISED
RFG	ROOFING
RH	RIGHT HAND
RHP	RADIANT HEAT PANEL
RI	RISER
RAIL	RAILING
REINF	REINFORCE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RT	RUBBER TILE
RUB	RUBBER
RVS	REVERSE (SIDE)
RWL	RAINWATER LEADER
S	
S	SOUTH
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDUAL
SD	SOAP DISPENSER
SDH	SMOKE DAMPER/SOAP DISH
SEAL	SEALANT
SEAT	SEATING
SECT	SECTION
SERV	SERVICES
SG	SINGLE GLASS
SH	SHOWER
SH/C	SHOWER CURTAIN
SH/HD	SHOWER HEAD
SH/RD	SHOWER ROD
SHEATH	SHEATHING
SHT	SHEET
SHV	SHEET VNYL
SIM	SIMILAR
SKYLT	SKYLIGHT
sm or m^2	SQUARE METRES
SND	SANITARY NAPKIN DISPENSER
SP	SPANDREL PANEL
SPEC	SPECIFICATION OR SPECIAL
SPGL	SPANDREL GLASS
SPKR	SPEAKER
sq.	SQUARE
SS	SOLID SURFACE
ST	STAIR
ST STL	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STM	STORM
STN	STATION
STOR	STORAGE
STR OR STRUCT	STRUCTURAL
SUSP	SUSPENDED
SVT	SOLID VINYL TILE
SYM	SYMMETRY (ICAL)
SYN	SYNTHETIC
SYST	SYSTEM
T	
T & G	TONGUE AND GROOVE
T/O	TOP OF
TB	TOWEL BAR
TBD	TO BE DETERMINED
TD	TOWEL DISPENSER
TEL	TELEPHONE
TEMP	TEMPERED
TERR	TERRAZZO
TEXT FIN	TEXTURED FINISH
THK	THICK (NESS)
THRESH	THRESHHOLD
TI/GL	TINTED GLASS
TKB	TACKBOARD
TOL	TOLERANCE
TPD	TOILET PAPER DISPENCER
TPH	TOILET PAPER HOLDER
TRANS	TRANSPARENT
TRANS/MIR	TRANSPARENT MIRROR (ONE WAY MIRROR)
TRD	TREAD
TSD	TOILET SEAT DISPENSER
TSL	TOP OF SLAB
TV	TELEVISION
TYP	TYPICAL
U	
U/C	UNDERCUT
U/G	UNDERGROUND
U/N	UNDERNEATH
U/S	UNDERSIDE
UC/REF	UNDERCOUNTER REFRIGERATOR
ULC	UNDERWRITERS' LABORATORIES OF CANADA
ULI	UNDERWRITERS' LABORATORIES INCORPORATED
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UT	UTILITY
V	
V–JT	V–JOINT (ED)
VAP.BAR	VAPOUR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATED
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VNL	VINYL
VRT	VINYL REINFORCED TILE
VT	VINYL TILE
W	
W	WEST
W/	WITH
W/O	WITHOUT
WA	WASHROOM ACCESSORY
WB	WHITEBOARD
WC	WATER CLOSET
WC/WR	WHEELCHAIR WASHROOM
WD	WOOD (SOLID)/WIDE
WDW	WINDOW
WH	WALL HUNG
WIN/C	WINDOW COVERING
WKSP	WORKSHOP
WM	WIRE MESH
WP	WALL PROTECTION
WPF	WATERPROOF
WR	WASHROOM
WWM	WELDED WIRE MESH

END OF ABBREVIATIONS LISTING

CITY OF HAMILTON
Building Division

Permit No. 26-101123-00

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW

These drawings and/or specifications have been reviewed by

Jun. 04, 2026

FOR CHIEF BUILDING OFFICIAL — DATE

CONTACT LIST

HWDSB	Client	Hamilton Wentworth District School Board 20 Education Court, P.O. Box 2558 Hamilton, Ontario T: 905–527–5092	Hamilton Wentworth District School Board
GS GACESA | SLOTE ARCHITECTS	Architect	GS GACESA SLOTE ARCHITECTS INC 118 James Street North, Suite 300 Hamilton, Ontario, L8R 2K7 T: 905–297–0863 x1 E: stevan.gacesa@gs–arch.ca	Stevan Gacesa, OAA,
AILMAR ENGINEERING STRUCTURAL ENGINEERS	Structural	AILMAR ENGINEERING INC. 94 Curran Road, Ancaster, Ontario, L9K 0H4 T: 905–966–4797 E: ssomo@ailmar.com	Samuel Somo, P.Eng.
CoPA ENGINEERING LTD.	Mechanical	CoPa Engineering Ltd. 29 Rolling Acres Drive Kitchener, ON N2A 3W5 T: 519–894–0022 F: 519–894–4548 E: copa.eng@sympatico.ca	Costas Pashartis, P. Eng.
ROOT3 Engineering	Electrical	Root3 Engineering Ltd. 1920 Young St, Suite 200, Toronto, ON M4S 3E2 T: 437–562–6772 E: sholditch@root3.ca	Steve Holditch, P. Eng.

GRAPHIC SYMBOLS

- INDICATES DETAIL NUMBER (1)
- INDICATES DRAWING SHEET ON WHICH DETAIL IS SHOWN (CROSS REFERENCING) (A8.1)
- INDICATES SKETCH SHEET ON WHICH DETAIL IS SHOWN (A3000)
- PROJECT NORTH
- WINDOW TYPE (W01)
- KEYNOTE (#)
- EXTERIOR WALL ASSEMBLY (EW#)
- ROOM NUMBER (RM#)
- INDICATES ELEVATION NUMBER (1)
- INDICATES SHEET ON WHICH ELEVATION IS SHOWN (CROSS REFERENCING) (5.1)
- EXISTING ELEVATION (254.400)
- NEW ELEVATION (254.400)
- REVISION TO DRAWING (3)
- INTERIOR PARTITION ASSEMBLY (P#)
- FLOOR/ROOF ASSEMBLY (FL# / R#)
- DOOR NUMBERS (D001)
- GRID REFERENCE (A)
- INDICATES WALL SECTION NUMBER (1)
- INDICATES DRAWING SHEET ON WHICH SECTION IS SHOWN (CROSS REFERENCING) (A7.1)
- INDICATES BUILDING SECTION NUMBER (1)
- INDICATES DRAWING SHEET ON WHICH SECTION IS SHOWN (CROSS REFERENCING) (A5.1)
- INTERIOR GLAZED SCREEN TYPE (SC#)

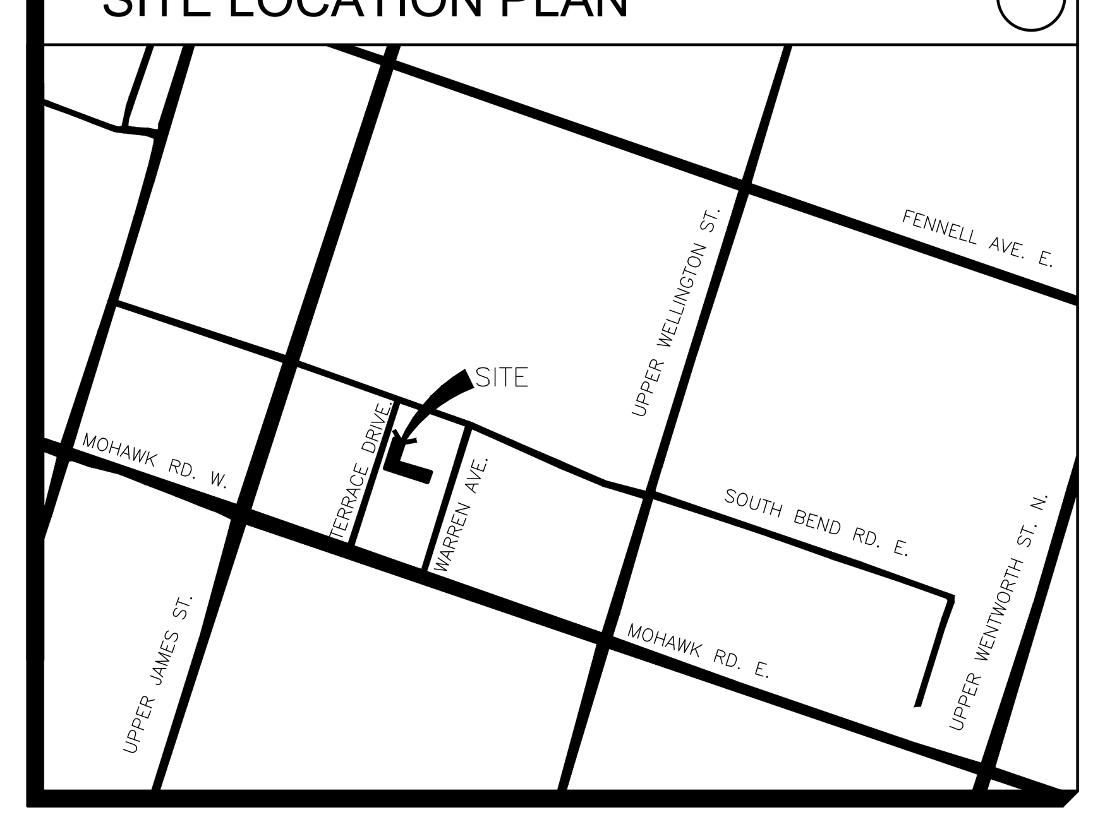
SHEET INDEX

	SHEET NUMBER/TITLE	
ARCHITECTURAL	A0.1	COVER
	A0.2	OBC MATRIX, WALL ASSEMBLIES & DOOR SCHEDULES
	A2.0	DEMOLITION, NEW FLOOR PLANS & INTERIOR ELEVATION
	A2.1	REFLECTED CEILING PLAN AND PENTHOUSE PLAN
	A3.0	WASHROOM DETAILS
	A6.0	SECTION
STRUCTURAL	S0.0	GENERAL NOTES
	S1.0	FLOOR PLANS
	S1.1	FLOOR PLANS
	S1.2	PARTIAL DEMOLITION PLANS
	S1.3	PARTIAL FRAMING PLANS
	S2.0	SECTION AND DETAILS
	S3.0	TYP. DETAILS
MECHANICAL	M1.1	PLUMBING LAYOUTS
	M2.1	HVAC LAYOUTS
	M3.1	MECHANICAL NOTES AND SCHEDULES

SHEET INDEX

	SHEET NUMBER/TITLE	
ELECTRICAL	E1	ELECTRICAL LEGEND & SPECIFICATION

SITE LOCATION PLAN



GENERAL NOTES

1. ALL CONSTRUCTION TO MEET ALL CURRENT ONTARIO BUILDING CODE REQUIREMENTS.
2. ENSURE THAT ALL CONSTRUCTION, MATERIALS, METHODS OF INSTALLATION AND TEMPORARY FACILITIES COMPLY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
3. INSPECT SITE CONDITIONS PRIOR TO COMMENCING ON NEW WORK AND REPORT ANY DISCREPANCIES.
4. REPORT ALL CONTEMPLATED DEVIATIONS FROM THE DRAWINGS PRIOR TO MAKING CHANGES.
5. SITE VERIFY ALL DIMENSIONS AND MAKE MODIFICATIONS TO SUIT EXISTING SITE CONDITIONS.
6. MAKE GOOD ALL AREAS DISTURBED OR DAMAGED DURING CONSTRUCTION WHETHER SHOWN ON DRAWINGS OR NOT.
7. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ANY AND ALL STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND LANDSCAPE DRAWINGS. COORDINATE STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL & LANDSCAPE WORK TO ENSURE THE PARTS OF THE WORK COME TOGETHER PROPERLY.
8. PROVIDE CUTTING, PATCHING, AND REMEDIAL WORK IN ORDER TO ENSURE PARTS OF THE WORK COME TOGETHER PROPERLY.
9. ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL BUILDING, PLUMBING, HYDRO, GAS, ETC., AUTHORITIES DURING CONSTRUCTION AND FOR OCCUPANCY.
10. THE PLANS SHOWN HERE DO NOT REPRESENT THE FULL LIMIT OF THE SCOPE OF WORK. PROVIDE ALL WORK IN ORDER TO ENSURE PARTS OF THE WORK COME TOGETHER PROPERLY.

GACESA | SLOTE ARCHITECTS
TEL 905–297–0863
118 JAMES ST. NORTH, SUITE 300, HAMILTON, ONTARIO L8R 2K7

ONTARIO ASSOCIATION OF ARCHITECTS
STEVAN GACESA
LICENCE 5881

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

No.	Date	Remarks
02	2026-02-27	Issued for Permit
01	2025-11-19	Issued for Client Review

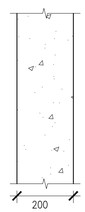
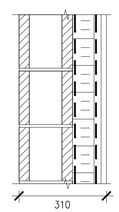
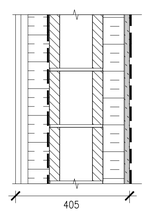
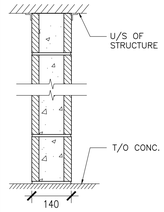
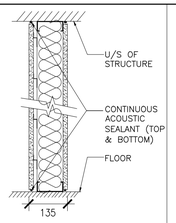
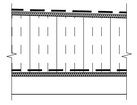
Interior Renovations for
HWDSB Norwood Park Accessibility Upgrades
165 Terrace Dr, Hamilton, ON L9A 2Z2

Dwg. Title: Cover

Drwn:		Chkd:	SG
Proj. No.:	25027		
Scale:	As noted		
Date:	2026 01 20		

Drawing No.: A0.1

8 WALL ASSEMBLY — A0.2 — 1:10

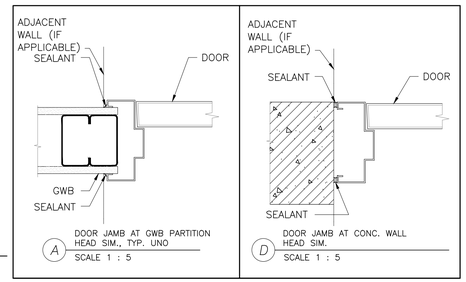
GRAPHIC DESCRIPTION						
DESIGNATION	F1	E1	PW1	P2 / P2A	P3	R1
TYPE	FOUNDATION WALL	EXTERIOR WALL	PARAPET WALL	INTERIOR PARTITION	INTERIOR PARTITION	ROOF ASSEMBLY
FIRE RESISTANCE RATING (F.R.R.)	–	–	–	–	–	–
SOUND TRANSMISSION CLASS (S.T.C.)	–	–	–	–	–	–
CONSTRUCTION (INSIDE) ↓ DESC. ↓ (OUTSIDE)	–200mm CONCRETE WALL	–190mm CONCRETE BLOCK –A.V.B –75mm RIGID INSULATION (R–17ci) –25mm AIR SPACE –6 MIL TYVEK WRB MEMBRANE –METAL SIDING	–19mm PT. PLY. –75mm RIGID INSULATION (R–17ci) –A.V.B –190mm CONCRETE BLOCK –75mm RIGID INSULATION (R–17ci) –25mm AIR SPACE –6 MIL TYVEK WRB MEMBRANE –METAL SIDING	–140mm CONCRETE BLOCK P2A SAME AS P2 WITH 190mm CONCRETE BLOCK	–16 ABUSE RESISTANT GYPSUM BOARD –13 RESILIENT CHANNEL @600 O.C –92 METAL STUDS @ 400 O.C. W/89 SOUND BATT INSULATION BETWEEN STUDS –16 ABUSE RESISTANT GYPSUM BOARD	–WHITE MOD. BIT ROOFING MEMBRANE, COLD APPLIED –13mm COVER FIBRE BOARD –TAPERED INSULATION (2% SLOPE) –178mm RIGID INSULATION (Min. R35 ci) –SELF–ADHERED ROOF VAPOUR RETARDER –13mm FIBRE BOARD (THERMAL UNDERLAYMENT) –METAL DECKING

7 DOOR SCEDULE — A0.2 — 1:50

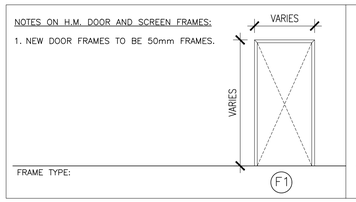
ROOM		DOOR / SCREEN						FRAME			FIRE RATING	REMARKS
NUMBER	NAME	NUMBER	SIZE	TYPE	MAT'L	FINISH	GLASS	TYPE	MAT'L	FINISH		
K1A	ELEVATOR MACHINE ROOM	DK1A	965 X 2135	A	HM	PT	–	F1	HM	PT	45 MIN.	
211	EX. CLASSROOM	D211	EX.	EX.	EX.	ST	–	F1	HM	PT	–	REUSE EX. DOOR PANEL & HARDWARE FROM EX. CLASSROOM 211 G.C. TO SITE VERIFY EX. DOOR SIZE FOR NEW R.O.
203A	B.F. WASHROOM	D203A	1015 X 2135	A	SCWD	ST	–	EX.	EX.	ST	–	REUSE EX. DOOR HARDWARE, NEW DOOR PANEL ON EX. DOOR FRAME.

LEGEND: EX. – EXISTING; HM – HOLLOW METAL; PT – PAINTED; ST – STAINED; SCWD – SOLID CORE WOOD DOOR
G1 – 6mm TEMPERED GLASS; G2 – 25mm INSULATED GLAZING; G3 – 13mm TEMPERED GLASS; MIN – MINUTES

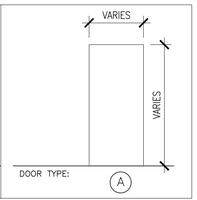
6 FRAME DETAILS — A0.2 — 1:5



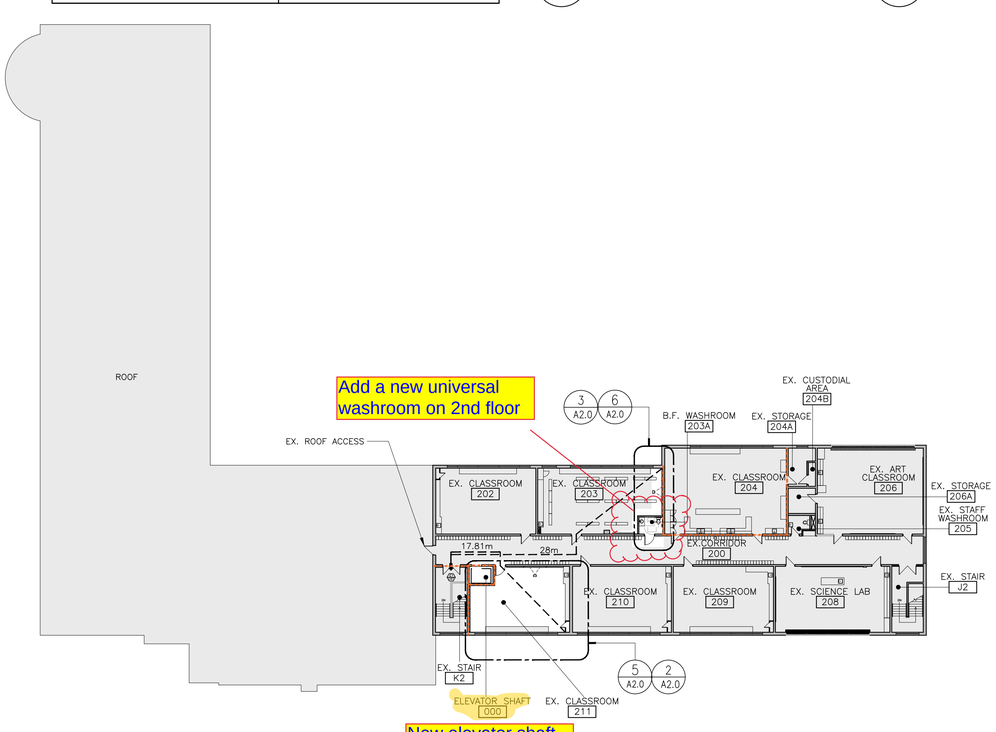
5 FRAME TYPE — A0.2 — 1:100



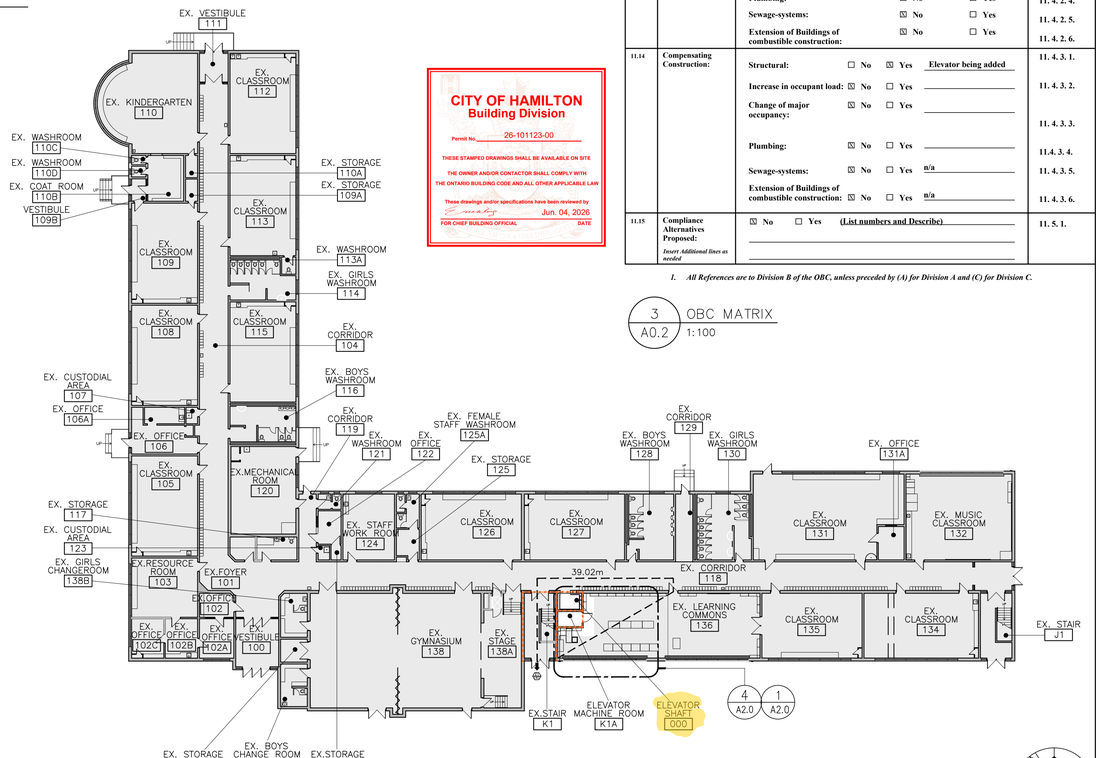
4 DOOR TYPE — A0.2 — 1:100



2 SECOND FLOOR LIFE SAFETY PLAN — A0.2 — 1:300



1 GROUND FLOOR LIFE SAFETY PLAN — A0.2 — 1:300



CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

LEGEND

EXIT & EGRESS
TRAVEL DISTANCE 45m
EXIT DESIGNATION (STAIR OR DOOR) E1 / 147
EXIT CAPACITY (PERSONS)
EXIT DOOR & DIRECTION OF TRAVEL
EXIT ENCLOSURE

FIRE SEPARATIONS
1 HR

Name of Practice:
GS | GACESA SLOTE ARCHITECTS INC.
118 James Street North, Suite 300
Hamilton, ON. L8R 2K7
Tel: 905-297-0863 Ex.-1
Name of Project:
Alterations to HWDSB Norwood Park Accessibility Upgrades
Location:
165 Terrace Dr, Hamilton, ON. L9A 2Z2
Date:
November 2025

2024 Ontario Building Code Data Matrix Part-11 Renovation

			Building Code Reference (1)
11.00	Building Code Version:	O. Reg. 163/24 — Last Amendment O. Reg. 447/24	
11.01	Project Type :	☐ Addition ☒ Renovation ☐ Addition and Renovation ☐ Change of use Description : Existing Use Institutional (Group A2)	[A] 1. 3. 3. 3B.
11.02	Major Occupancy Classification :	Occupancy: A2 — Use: Institutional	3. 1. 2. 1. (1), 2. 1. 4. 1. (1), & 11. 2. 1.
11.03	Superimposed Major Occupancies :	☒ No ☐ Yes Description :	11. 2., 3. 2. 2. 5. to 3. 2. 2. 8., & 2. 2. 1.
11.04	Building Area (m²)	Description : Existing / New / Total Ground floor 2787.56 / 0 / 2787.56 Second floor 1011.83 / 0 / 1011.83 Total 3799.39 / 0 / 3799.39	[A] 1. 4. 1. 2., 11. 2., & 11. 3.
11.05	Building Height	2 Storeys above grade — 8.67 (m) Above grade 0 Storeys below grade	[A] 1. 4. 1. 2., 3. 2. 1. 1., 2. 2. 2. 2., & 11. 3.
11.06	Number of Streets/ Firefighter access :	2 Street(s)	3. 2. 2. 10., 3. 2. 5., 2. 2. 4. 1., & 11. 3.
11.07	Building Size	☐ Small ☒ Medium ☐ Large ☐ > Large	11. 2. 1. 1., T. 11. 2. 1. 1. B-N
11.08	Existing Building Classification	Change in Major Occupancy: ☐ Yes ☒ Not-Applicable (no change of major occupancy) Construction Index : - Hazard Index : - Importance Category: ☐ Low ☒ Normal ☐ High ☐ Post disaster	10. 1. 1. 2., 11. 2. 1. 1. T 11. 2. 1. 1. A T 11. 2. 1. 1. B to N 4. 1. 2. 1. (3), 2. 3. 1., & 5. 2. 2. 1. (2)
11.09	Renovation Type:	☐ Basic Renovation ☒ Extensive Renovation	11. 3. 3. 1. & 11. 3. 3. 2.
11.10	Occupant Load *Insert Additional lines as needed*	Floor Level/Area / Occupancy Type / Based On / Occupant Load (Persons) LEVEL 1 — A2 — Design — EXISTING LEVEL 2 — A2 — Design — EXISTING TOTAL — EXISTING	3. 1. 17., 2. 1. 2. 2., & 11. 4. 2. 2.
11.11a	Plumbing Fixture Requirements	1 B.F Washroom added	3. 7. 4., 11. 3. 4., 11. 3. 5., 11. 4. 2. 4., & 11. 4. 2. 5.
11.12	Barrier free Design Barrier-free Entrances:	☐ No ☒ Yes Existing Number 2 Ex. East entrance & Ex. South entrance	11. 3. 1. 2., 11. 3. 2., 11. 3. 3. 2.
11.13	Reduction in Performance Level:	Structural: ☒ No ☐ Yes — 11. 4. 2. 1. By Increase in occupant load: ☒ No ☐ Yes — 11. 4. 2. 2. By Change of major occupancy: ☒ No ☐ Yes — 11. 4. 2. 3. Plumbing: ☐ No ☒ Yes — 11. 4. 2. 4. Sewage-systems: ☒ No ☐ Yes — 11. 4. 2. 5. Extension of Buildings of combustible construction: ☒ No ☐ Yes — 11. 4. 2. 6.	
11.14	Compensating Construction:	Structural: ☐ No ☒ Yes Elevator being added — 11. 4. 3. 1. Increase in occupant load: ☒ No ☐ Yes — 11. 4. 3. 2. Change of major occupancy: ☒ No ☐ Yes — 11. 4. 3. 3. Plumbing: ☒ No ☐ Yes — 11. 4. 3. 4. Sewage-systems: ☒ No ☐ Yes n/a — 11. 4. 3. 5. Extension of Buildings of combustible construction: ☒ No ☐ Yes n/a — 11. 4. 3. 6.	
11.15	Compliance Alternatives Proposed: *Insert Additional lines as needed*	☒ No ☐ Yes (List numbers and Describe)	11. 5. 1.

1. All References are to Division B of the OBC, unless preceded by (A) for Division A and (C) for Division C.

3 OBC MATRIX — A0.2 — 1:100

GACESA | SLOTE ARCHITECTS
GS
118 JAMES ST. NORTH, SUITE 300, HAMILTON, ONTARIO L8R 2K7
TEL: 905-297-0863

ONTARIO ASSOCIATION OF ARCHITECTS
STEVAN GACESA
LICENCE 5881

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
NOTE: DRAWINGS ARE NOT TO BE SCALED.

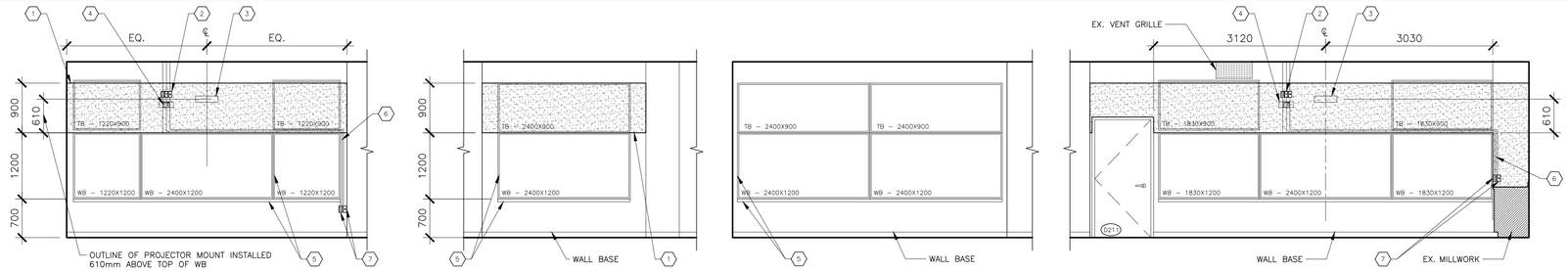
No.	Date	Remarks
02	2026-02-27	Issued for Permit
01	2025-11-19	Issued for Client Review

Interior Renovations for HWDSB Norwood Park Accessibility Upgrades
165 Terrace Dr, Hamilton, ON L9A 2Z2

Dwg. Title:
OBC Matrix
Life Safety & Schedules

Drwn:	Chkd: SG
Proj. No.:	25027
Scale:	As noted
Date:	2026 01 20

Drawing No.:
A0.2



ELEVATION A

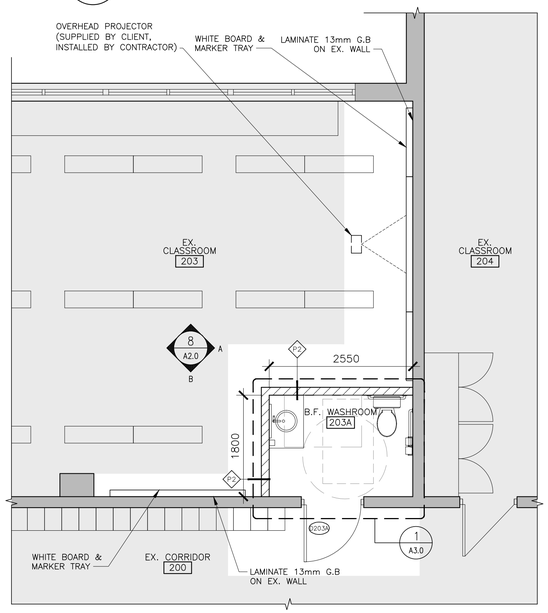
ELEVATION B

ELEVATION A

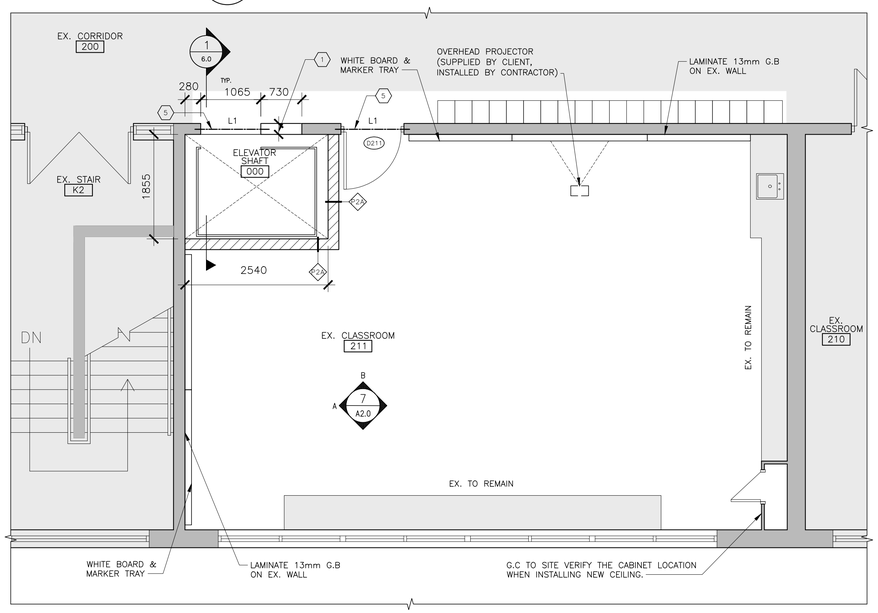
ELEVATION B

8 A2.0 INTERIOR ELEVATION– CLASSROOM 203
1:50

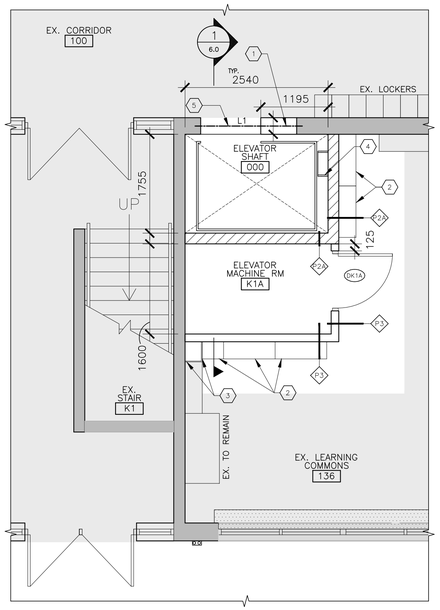
7 A2.0 INTERIOR ELEVATION– CLASSROOM 211
1:50



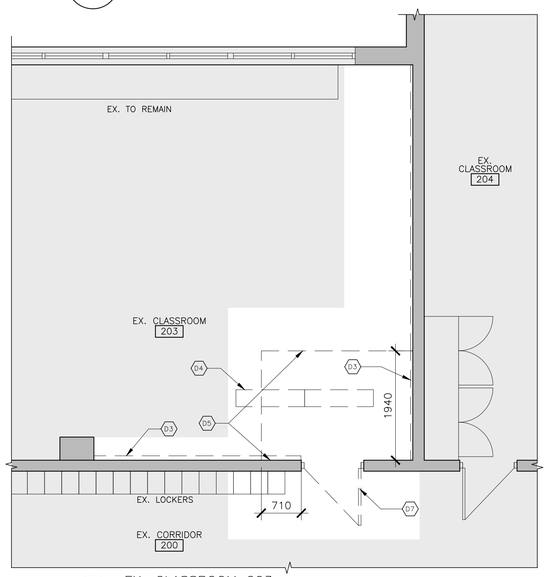
6 A2.0 B.F. WASHROOM 203A SECOND FLOOR PLAN
1:50



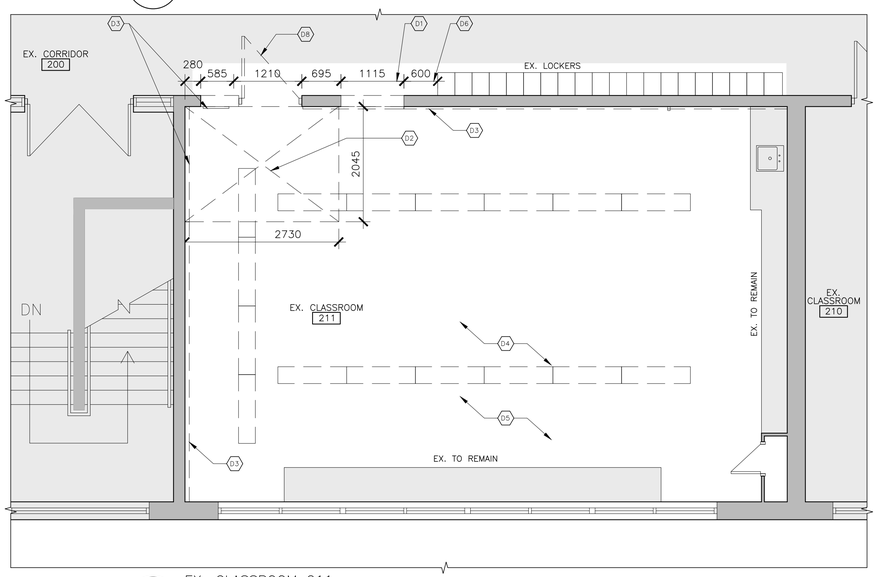
5 A2.0 ELEVATOR SHAFT PROPOSED SECOND FLOOR PLAN
1:50



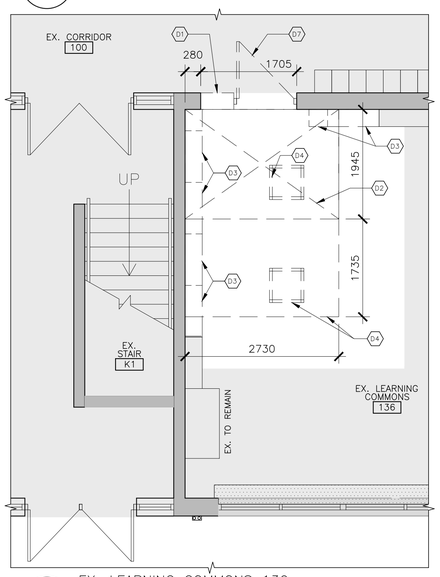
4 A2.0 ELEVATOR SHAFT PROPOSED GROUND FLOOR PLAN
1:50



3 A2.0 EX. CLASSROOM 203 SECOND FLOOR DEMOLITION PLAN
1:50



2 A2.0 EX. CLASSROOM 211 SECOND FLOOR DEMOLITION PLAN
1:50



1 A2.0 EX. LEARNING COMMONS 136 GROUND FLOOR DEMOLITION PLAN
1:50

INTERIOR ELEVATION KEYNOTES

NOTE: ALL KEYNOTES MAY NOT BE USED.

1. LAMINATE 13mm G.B ON EX. WALL
2. POWER & DATA FOR PROJECTOR: POWER & DATA
3. OVERHEAD PROJECTOR (SUPPLIED BY CLIENT, INSTALLED BY CONTRACTOR)
4. HDMI, USB, VGA & 3.5mm AUDIO PORTS.
5. WHITE BOARD & MARKER TRAY
6. WIRE MOLD
7. POWER & DATA FOR INPUT DEVICE: DATA (2) USED (2) BLANK/ POWER QUAD RECEPTACLE.

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

PLAN KEY NOTES

NOTE: ALL KEYNOTES MAY NOT BE USED.

1. NEW WALL TYPE AND THICKNESS TO MATCH EXISTING.
2. RELOCATED EX. SHELVING.
3. INSTALL GYPSUM BOARD FILLER PANELS.
4. PIT ACCESS LADDER
5. L1 – LINTEL. REFER TO STRUCTURAL.
6. RE USE EX. DOOR PANEL & HARDWARE FROM EX. CLASSROOM 211. PATCH & REPAIR ALL DAMAGED SURFACES.

PLAN NOTES

1. LOCATE DOOR FRAMES 50mm FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
2. PATCH AND MAKE GOOD AT ALL JUNCTION OF NEW AND EXISTING WORK.
3. PATCH AND MAKE GOOD ALL DISTURBED SURFACES.

PLAN LEGEND

- EXISTING
- NEW CONSTRUCTION
- NEW BLOCK WALL
- EXISTING DOOR TO REMAIN
- NEW DOOR
- FLOOR DRAIN
- PB — PUSH BUTTON FOR AUTOMATIC DOOR OPENER
- PA — PUBLIC ADDRESS SYSTEM
- NEW LINTEL
- M1 — MIRROR
- TPD — TOILET PAPER DISPENSER
- SD — SOAP DISPENSER
- PTD — PAPER TOWEL DISPENSER
- HD — HAND DRYER
- GB — BRAB BAR

DEMO PLAN KEYNOTES

NOTE: ALL KEYNOTES MAY NOT BE USED

- D1 REMOVE EX. WALL FOR NEW DOOR OPENING. PATCH AND REPAIR ALL DAMAGED SURFACES.
- D2 SAW CUT AND REMOVE EXISTING FLOOR SLAB, EXISTING OWSJ AT FLOORS AND THE ROOF. COORDINATE WITH MECHANICAL, ELECTRICAL & STRUCTURAL.
- D3 REMOVE ALL EX. WALL MOUNTED ITEMS. SAVE SHELVING UNITS FOR FUTURE USE. PATCH AND MAKE ALL SURFACES GOOD.
- D4 REMOVE ALL EX. CEILING TILES, HANGERS AND LIGHTING. AND EX. GB CEILING BEYOND.
- D5 REMOVE ALL EX. WALL BASES AND EX. FLOOR FINISHES.
- D6 RELOCATE THE EXISTING LOCKER SET BY 600mm AWAY FROM NEW DOOR OPENING.
- D7 REMOVE EXISTING DOOR & FRAME. SAVE DOOR HARDWARE FOR FUTURE USE.
- D8 REMOVE EXISTING DOOR & FRAME. SAVE DOOR PANEL & HARDWARE FOR FUTURE USE.

DEMO PLAN LEGEND

1. PATCH AND MAKE GOOD ALL AREAS AFFECTED BY DEMOLITION.

DEMO PLAN LEGEND

- EXISTING
- DEMOLITION
- EXISTING DOOR TO REMAIN

GACESA | SLOTE ARCHITECTS
118 JAMES ST. NORTH, SUITE 300, HAMILTON, ONTARIO, L8R 2K7
TEL. 905-297-0663

ONTARIO ASSOCIATION OF ARCHITECTS
STEVEN GACESA
LICENCE 5881

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
NOTE: DRAWINGS ARE NOT TO BE SCALED.

No.	Date	Remarks
02	2026-02-27	Issued for Permit
01	2025-11-19	Issued for Client Review

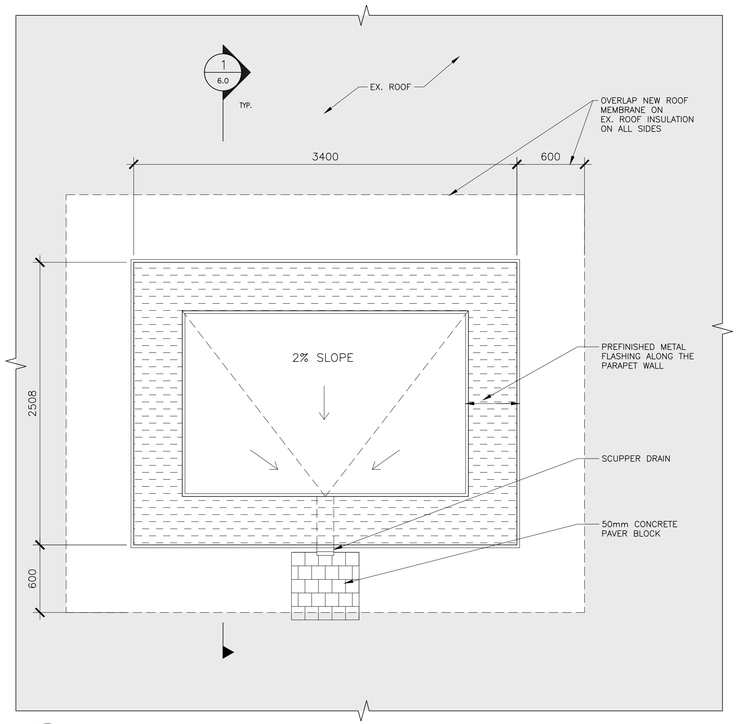
Interior Renovations for HWDSB Norwood Park Accessibility Upgrades

165 Terrace Dr, Hamilton, ON L9A 2Z2

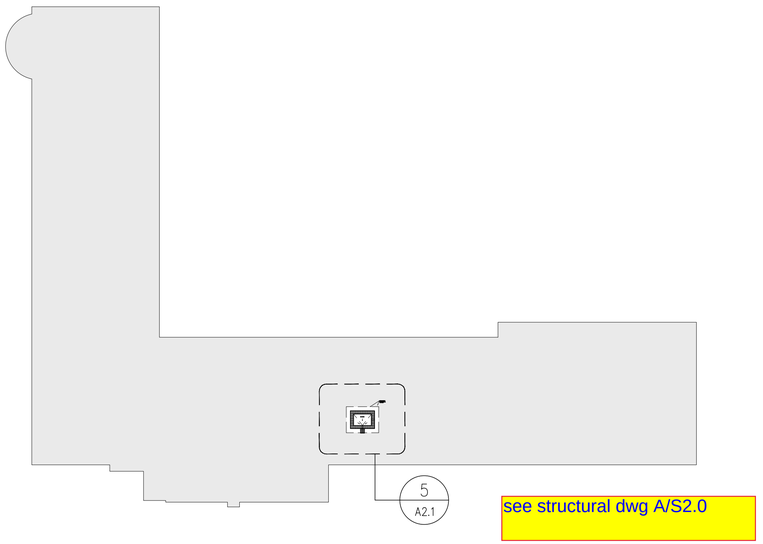
Dwg. Title:
Demolition & New Floor Plans Interior Elevations

Drwn:		Chkd:	SG
Proj. No.:	25027		
Scale:	As noted		
Date:	2026 01 20		

Drawing No.:
A2.0



5 PENTHOUSE ROOF PLAN
A2.1 1:25



see structural dwg A/S2.0

4 PENTHOUSE ROOF – KEY PLAN
A2.1 1:400

PLAN KEYNOTES

NOTE: ALL KEYNOTES MAY NOT BE USED

1 REINSTALL EXISTING CEILING TILES REMOVED FROM DEMOLITION WORK.

HATCH LEGEND

AREA OF WORK

EX. TO REMAIN

RCP LEGEND

EXIT LIGHT

SURFACE MOUNTED EXTERIOR FIXTURE

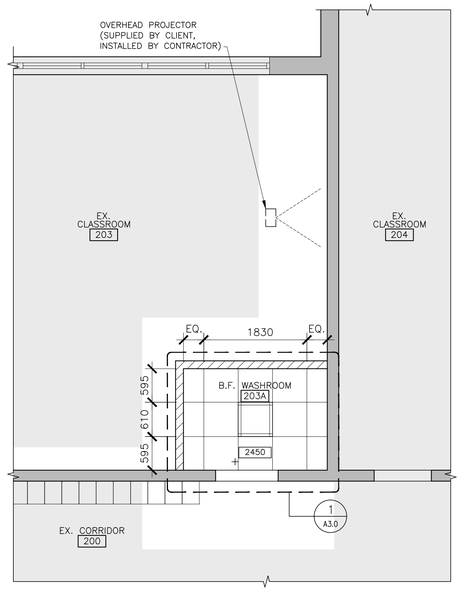
610x610 ACOUSTIC TILE CEILING TYP.

LIGHTING LEGEND

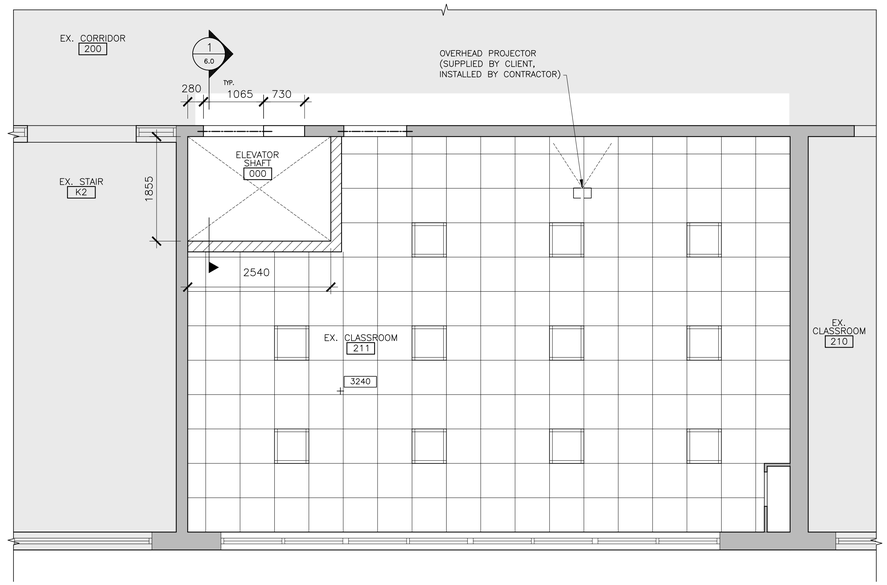
610X610 RECESSED LIGHT FIXTURE

REFLECTED CEILING PLAN LEGEND

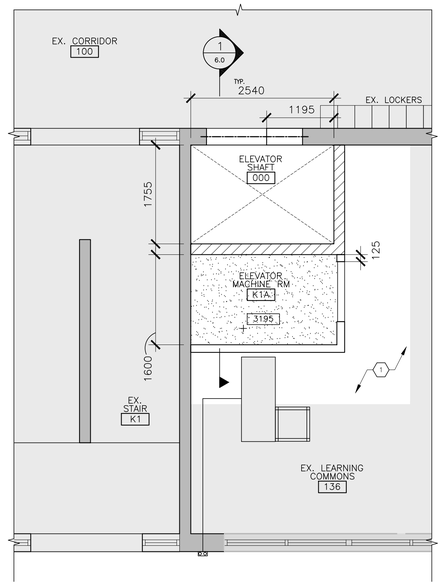
PROVIDE 16mm TYPE 'X' UNPAINTED GYPSUM BOARD CEILING C/W METAL TRACK TIGHT TO U/S OF LOWEST FIXED ITEMS SUCH AS STRUCTURAL STEEL OR PIPE WORK.
GYPSUM CEILING TO PROVIDE 50 MINUTES FIRE– RESISTANCE AS PER SB–2 TABLE 2.3.4.B. AND TABLE 2.3.4.F.
TAPE ALL JOINTS AND APPLY COMPOUND TO ALL EXPOSED FASTENERS.
GYPSUM BOARD CEILING TO EXTEND ABOVE LOCKERS TO TERMINATE AT CORRIDOR WALLS.
PROVIDE 50– 14"X14" MIN. 1– HOUR FIRE–RATED CEILING ACCESS PANELS.
ACCESS PANELS TO BE LOCATED AS REQUIRED.



3 B.F. WASHROOM 203A
SECOND FLOOR – RCP
A2.1 1:50



2 EX. CLASSROOM 211
SECOND FLOOR – RCP
A2.1 1:50



1 EX. LEARNING COMMONS 136
GROUND FLOOR – RCP
A2.1 1:50

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

GACESA | SLOTE ARCHITECTS
GS
118 JAMES ST. NORTH, SUITE 300, HAMILTON, ONTARIO L8R 2K7
TEL 905-972-0863

ONTARIO ASSOCIATION OF ARCHITECTS
STEVAN GACESA
LICENCE 5881

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
NOTE: DRAWINGS ARE NOT TO BE SCALED.

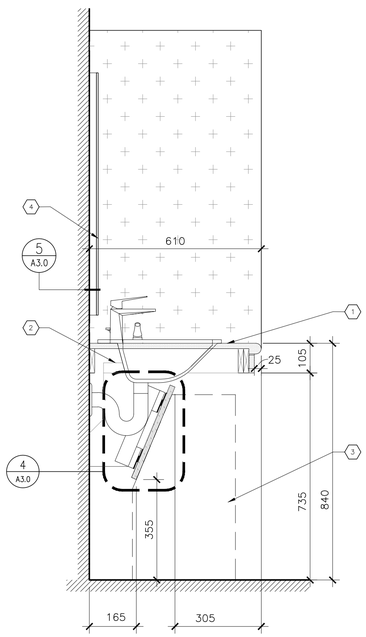
No.	Date	Remarks
02	2026-02-27	Issued for Permit
01	2025-11-19	Issued for Client Review

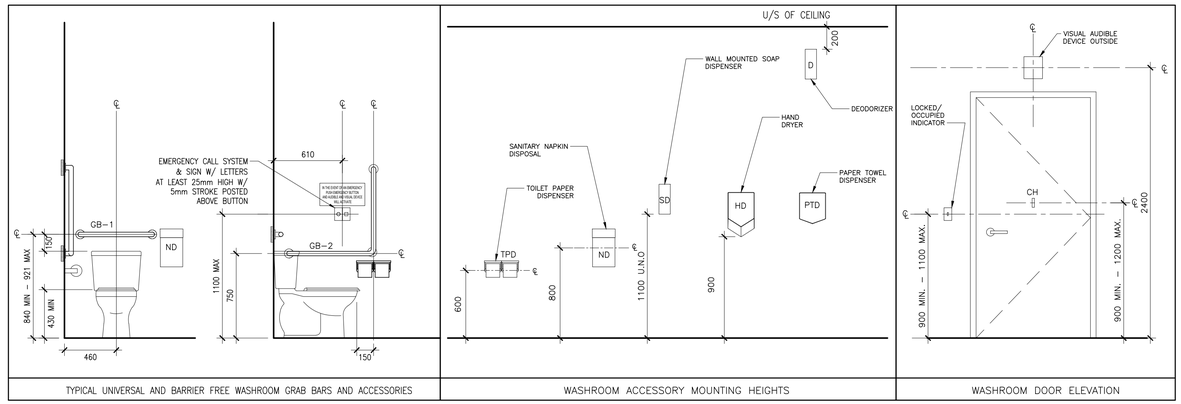
Interior Renovations for
HWDSB Norwood Park Accessibility Upgrades
165 Terrace Dr, Hamilton, ON L9A 2Z2

Dwg. Title:
Reflected Ceiling Plan & Penthouse Plan

Drwn:		Chkd:	SG
Proj. No.:	25027		
Scale:	As noted		
Date:	2026 01 20		

Drawing No.:
A2.1



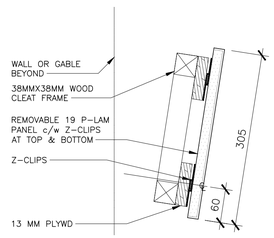


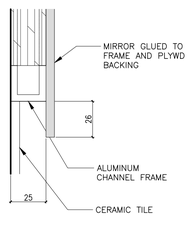
TYPICAL UNIVERSAL AND BARRIER FREE WASHROOM GRAB BARS AND ACCESSORIES

WASHROOM ACCESSORY MOUNTING HEIGHTS

WASHROOM DOOR ELEVATION

6 A3.0 APRON DETAIL 1:5

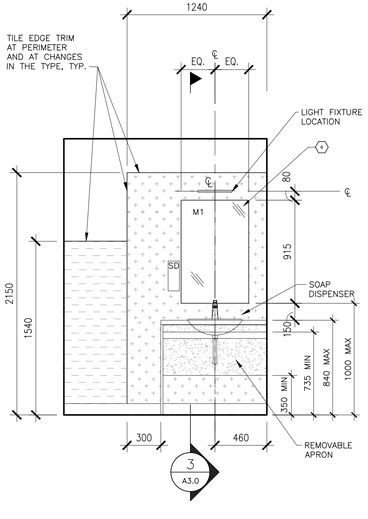




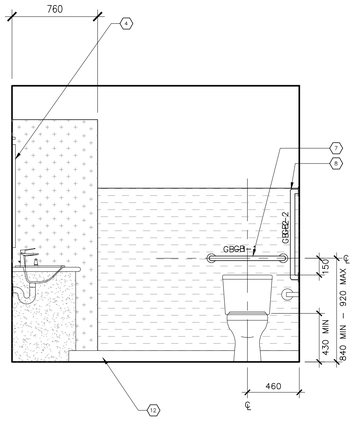
3 A3.0 SECTION – BF SINK 1:25

4 A3.0 APRON DETAIL 1:5

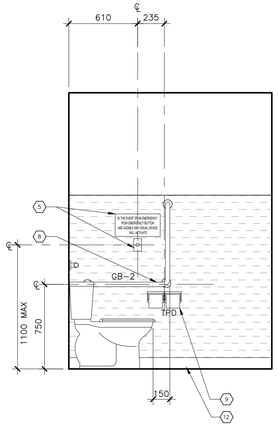
5 A3.0 SECTION– MIRROR DETAIL 1:2



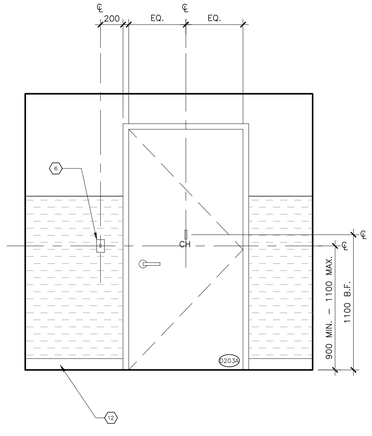
ELEVATION A



ELEVATION B

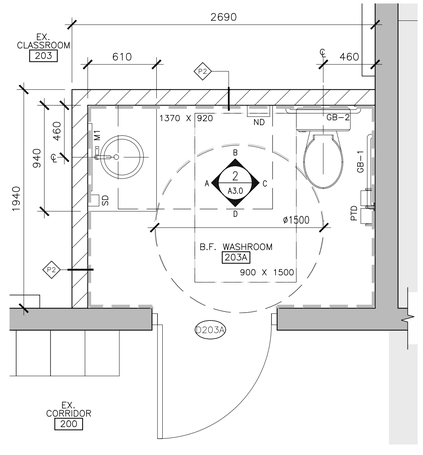


ELEVATION C



ELEVATION D

2 A3.0 B.F. WASHROOM 203A INTERIOR ELEVATIONS 1:25



1 A3.0 B.F. WASHROOM 203A SECOND FLOOR PLAN 1:25

KEYNOTES

1. COUNTERTOP AND NOSING
2. METAL SUPPORT BRACKET @ 1200 O.C. MAX
3. GABLE END BEYOND
4. M1 MIRROR
5. EMERGENCY CALL SYSTEM & SIGN W/ LETTERS AT LEAST 25mm HIGH W/ 5mm STROKE POSTED ABOVE BUTTON
6. FINISHED END GABLE
7. GB–1 – GRAB BAR
8. GB–2 – "L" SHAPE GRAB BAR
9. TPD – TOILET POAPER DISPENSER
10. SOAP DISPENSER
11. COAT CLOSET ROD ø32
12. FLOOR BASE

GENERAL NOTES

1. P–LAM: PLASTIC LAMINATE ON 19 PLYWOOD CORE
2. ALL MELAMINE TO BE GREY COLOUR
3. FINISH ALL VISIBLE EDGES AND SURFACES
4. ALL BLOCKING TO BE 140X19 PLYWOOD, CONTINUOUS ON ALL SURFACES OF CABINETS ABUTTING WALLS
5. ALL GABLE ENDS NOT ABUTTING A WALL ARE TO BE FINISHED
6. PROVIDE BLOCKING FOR ALL ITEMS MOUNTED ON STUD AND GYPSUM BOARD WALL ASSEMBLIES.
7. PAINT ALL EXPOSED STEEL.
8. ALL APPLIANCES ARE SUPPLIED BY OWNER. INSTALLED BY CONTRACTOR.

℄ – DENOTES CENTRELINE

MILLWORK MATERIALS (UNO)

DOOR:	P–LAM
BOX FRAMES (INT.):	19 MELAMINE
BOX FRAMES (EXT.):	19 P–LAM ON PLYWOOD (WHERE VISIBLE), 19 MELAMINE ELSEWHERE
DRAWERS:	13 MELAMINE INTERIOR, 19 P–LAM ON PLYWOOD FRONTS
SHELVES:	19 P–LAM ON PLYWOOD (WHERE VISIBLE), 19 MELAMINE ELSEWHERE
BACKS:	6 MELAMINE ON 13 PLYWOOD STRAPPING IN UNITS
COUNTERTOPS:	1. 19 P–LAM ON PARTICLE BOARD w/38 WRAPPED BULLNOSE EDGE IN UNITS 2. SOLID SURFACE COUNTER (kitchen 111) AND NOSING ON PLYWOOD
TRIM:	SOLID PLASTIC EDGEBANDING

LEGEND

- P–LAM PANEL TYPE 1 — WT–A
- P–LAM PANEL TYPE 2 — WT–B
- CORK TILE TACKBOARD — 12X12 CT
- WOOD VENEER TYPE 1 — CONC.
- WOOD VENEER TYPE 2 — SOLID SURFACE
- EXTENT OF WALL TILE @ 2200 AFF U.N.O.

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

GACESA | SLOTE ARCHITECTS
GS
118 JAMES ST. NORTH, SUITE 300, HAMILTON, ONTARIO L8R 2K7
TEL. 905-297-0863

ONTARIO ASSOCIATION OF ARCHITECTS
STEVEN GACESA
LICENCE
5881

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
NOTE: DRAWINGS ARE NOT TO BE SCALED.

No.	Date	Remarks
02	2026-02-27	Issued for Permit
01	2025-11-19	Issued for Client Review

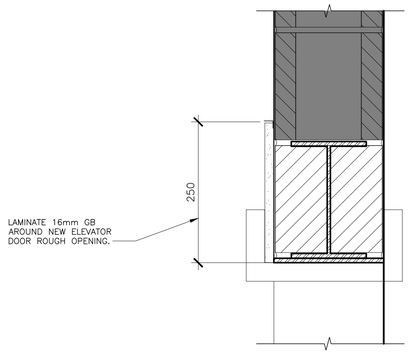
Interior Renovations for HWDSB Norwood Park Accessibility Upgrades

165 Terrace Dr, Hamilton, ON L9A 2Z2

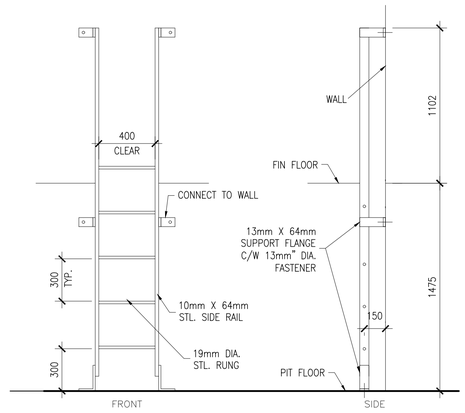
Dwg. Title:
Washroom Details

Drwn:		Chkd:	SG
Proj. No.:	25027		
Scale:	As noted		
Date:	2026 01 20		

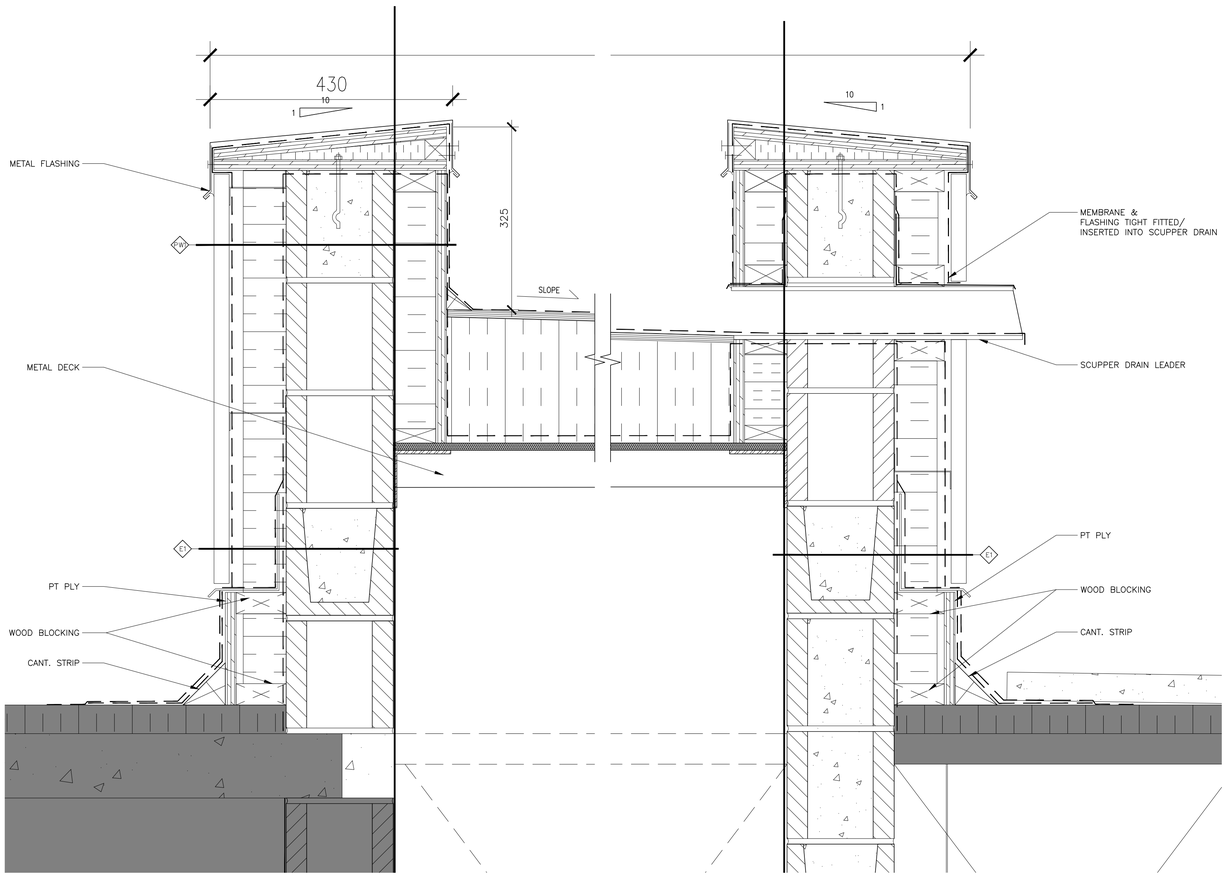
Drawing No.:
A3.0



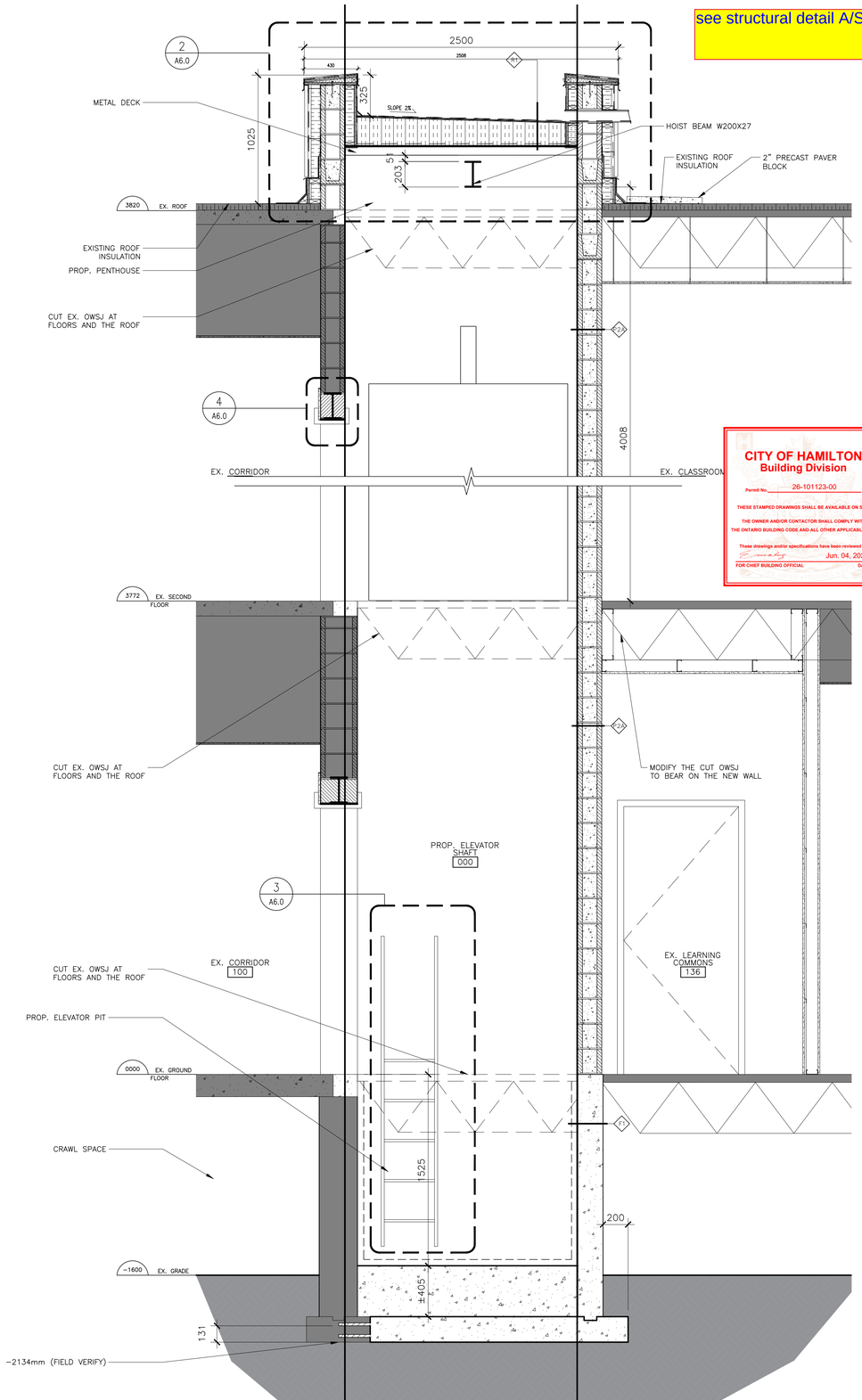
4 A6.0 GB LAMINATE DETAIL
1:5



3 A6.0 DETAIL PIT ACCESS LADDER
1:20



2 A6.0 PARAPET WALL DETAIL
1:5



1 A6.0 ELEVATOR SHAFT SECTION
1:20

see structural detail A/S2.0

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

GACESA | SLOTE ARCHITECTS
118 JAMES ST. NORTH, SUITE 300, HAMILTON, ONTARIO L8R 2K7
TEL 905-297-0863

ONTARIO ASSOCIATION OF ARCHITECTS
STEVAN GACESA
LICENCE
5881

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

No.	Date	Remarks
02	2026-02-27	Issued for Permit
01	2025-11-19	Issued for Client Review

Interior Renovations for HWDSB Norwood Park Accessibility Upgrades

165 Terrace Dr, Hamilton, ON L9A 2Z2

Dwg. Title:
Sections & Details

Drwn:		Chkd:	SG
Proj. No.:	25027		
Scale:	As noted		
Date:	2026 01 20		

Drawing No.:
A6.0

GENERAL NOTES

DRAWING NOTES AND INTERPRETATION:

1. READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL DRAWINGS AND CONTRACT DOCUMENTS.
2. THE DESIGN, DETAILING, CONSTRUCTION, AND SHORING SHALL CONFORM TO THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
3. DO NOT SCALE THE DRAWINGS.
4. ALL DESIGN LOADS INDICATED ARE UNFACTORED UNLESS NOTED OTHERWISE.
5. THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT SHALL CONFORM TO THE CURRENT ONTARIO BUILDING CODE AND THE LATEST EDITIONS OF THE LISTED STANDARDS INCLUDING REVISIONS.
6. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE ENGINEER ANY DISCREPANCIES OR CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE JOB BEFORE PROCEEDING WITH THE WORK.
7. DESIGN LIVE LOADS SHOWN ON THE DRAWINGS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
8. IN CASE OF CONFLICT BETWEEN CODES, REFERENCE STANDARDS, DRAWINGS AND OTHER CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION AND DIRECTION PRIOR TO ORDERING OR PROVIDING ANY MATERIALS OR LABOR. THE CONTRACTOR SHALL BID THE MOST STRINGENT REQUIREMENTS.

SHOP DRAWINGS:

1. SHOP DRAWINGS MUST BE REVIEWED AND STAMPED REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTING TO THE CONSULTANTS. SHOP DRAWINGS NOT STAMPED BY THE GENERAL CONTRACTOR WILL BE REJECTED. ANY DELAYS IN THE CONSTRUCTION SCHEDULE DUE TO NON-COMPLIANCE WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. CONTRACTORS SHALL PRIORITIZE THE SUBMISSION OF SHOP DRAWINGS FOR REVIEW AND ALLOW 5 BUSINESS DAYS TIME FOR REVIEW BY THE STRUCTURAL CONSULTANT IN ADDITION TO TIME REQUIRED BY OTHER PARTIES.
3. SHOP DRAWINGS MUST BE PRODUCED BY THE RESPECTIVE SUB-TRADES. THE USE OF STRUCTURAL DRAWINGS AS SHOP DRAWINGS IS NOT ACCEPTABLE AND WILL BE REJECTED.
4. SUBMIT SHOP DRAWINGS AS PER THE FOLLOWING TABLE:

ITEMS	REQ'D PROFESSIONAL ENGINEER STAMP?
CONCRETE MIX DESIGN	NO
CONCRETE REBARS	NO
MASONRY REBARS	NO
STRUCTURAL, COLD-FORM AND MISC. STEEL IF APPLICABLE	YES

TESTING AND INSPECTION

THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

ITEMS	REQ'D?	COMMENTS
SOIL BEARING CAPACITY	YES	BY SOILS ENGINEER
REINFORCING STEEL PLACEMENT	YES	INSPECT FINAL PLACEMENT
CONCRETE COMPRESSIVE TESTS	YES	MIN. 2 SETS PER CSA 23.2
CONCRETE SLUMP	YES	
WELDED CONNECTIONS	YES	INSPECT ALL FIELD WELDS
MORTAR CUBES	NO	

SHORING AND TEMPORARY STRUCTURES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY, MEANS, TECHNIQUES AND CONSTRUCTION PROCEDURES AND ALL SHORING AND TEMPORARY WORK AS MAY BE REQUIRED TO BUILD AND COMPLETE THE STRUCTURE IN CONFORMITY WITH CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF THE WORK, UNTIL COMPLETION INCLUDING EXISTING AND NEW MASONRY WALLS, EXISTING AND NEW FLOORS AND ROOF DECKS, ETC.

FOUNDATIONS:

1. FOOTING FOR THE NEW ELEVATOR HAS BEEN DESIGNED FOR A SOIL BEARING CAPACITY OF 150 KPA FOR (SLS) AND 225KPA FOR (ULS). A GEOTECHNICAL ENGINEER SHALL VERIFY SOIL BEARING PRIOR TO PLACING CONCRETE.
2. FOUND THE FOOTING ON A STRATA CAPABLE OF SUPPORTING THE ABOVE NOTED DESIGN BEARING PRESSURES.
3. PROTECT SOIL ADJACENT AND BELOW ALL FOOTINGS FROM FREEZING.
4. PROTECT FOOTINGS, FOUNDATION WALLS, AND SLAB-ON-GRADE AGAINST FREEZING DURING CONSTRUCTION TIME.
5. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES.
6. DO NOT BACKFILL AGAINST WALLS BELOW GRADE UNTIL ALL LATERALLY SUPPORTING ELEMENTS ARE PROPERLY INSTALLED AND THE SLAB-ON-GRADE IS CAST AND CONCRETE ATTAINED ITS 28-DAY DESIGN COMPRESSIVE STRENGTH. FOR OTHER WALLS BELOW GRADE BACKFILL AND COMPACT SIMULTANEOUSLY ON BOTH SIDES OF THE WALL.

CAST-IN-PLACE-CONCRETE:

1. ALL CONCRETE SHALL BE DESIGNED TO COMPLY WITH THE LATEST EDITION OF CAN/CSA A23.3
2. THE CONSTRUCTION OF CONCRETE SHALL COMPLY WITH THE LATEST EDITION OF CAN/CSA A23.1 AND A23.2.
3. THE 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c, SHALL BE AS INDICATED IN THE FOLLOWING TABLE:

	28-DAY STRENGTH (MPa)	EXPOSURE CLASSIFICATION	SLUMP AT DELIVERY (MM)	AIR ENTRAINMENT (%)
FOOTINGS & INTERIOR FOUNDATION WALLS	25	N	75(+/-) 25 3"(+/-) 1"	–
INTERIOR SLAB ON GRADE	25	N	50(+/-) 25 2"(+/-)1" (NOTE 1)	–
MASONRY CELLS FILLING GROUT	15	–	PER CSA A179	–
NON-SHRINK BEARING GROUT	35	–	–	–

NOTES:

1. THIS SLUMP IS BEFORE ADDITION OF SUPERPLASTICIZER. IF SUPERPLASTIZIER IS USED, SLUMP SHALL BE 150(+/-25MM), 6"(+/-)1".

4. THE MINIMUM CONCRETE COVER IN (MM) TO THE REINFORCING BARS SHALL BE AS INDICATED IN THE FOLLOWING TABLE UNLESS AS NOTED IN THE FOLLOWING SENTENCES 5 AND 6.

	EXPOSURE CLASSES N, F1, AND F2	EXPOSURE CLASSES C1, AND C3
FOOTINGS	75(3") TO BOTTOM BARS AND 50 (2") TO TOP BARS	75 TO BOTTOM BARS AND 60 TO TOP BARS
WALLS	40(1.5") TO EXTERIOR SURFACE AND 20 ($\frac{7}{8}$") TO INTERIOR SURFACE	60 (2-$\frac{3}{8}$")

5. THE MINIMUM CONCRETE COVER SHALL BE EQUAL TO THE REINFORCING BAR DIAMETER FOR EXPOSURE CLASS N, 1.5 TIMES THE BAR DIAMETER FOR CLASSES F1 AND F2, AND 2 TIMES THE BAR DIAMETER FOR CLASSES C1 AND C3.
6. WHERE CONCRETE IS CAST AGAINST EARTH, THE MINIMUM CONCRETE COVER SHALL BE 75MM, (3").
7. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18, GRADE 400W AND 400R, AND SHALL BE DEFORMED BAR UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

MASONRY:

1. MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF:
   C.S.A. S304.1- DESIGN OF MASONRY STRUCTURES
   C.S.A. S371- MASONRY CONSTRUCTION FOR BUILDINGS
   C.S.A. A165 SERIES- CSA STANDARDS FOR CONCRETE MASONRY UNITS
   C.S.A. A179- MORTAR AND GROUT FOR UNIT MASONRY
2. ALL CONCRETE BLOCK SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 15 MPa.
3. UNLESS NOTES OTHERWISE,E MORTAR SHALL BE TYPE S.
4. PROVIDE LATERAL RESTRAINT AT THE TOP OF ALL NON-LOAD BEARING PARTITIONS.
5. UNLESS NOTES OTHERWISE, PROVIDE 4.8MM(3/16") BAR DIAMETER GALVANIZED LADDER TYPE BED JOINT REINFORCING IN EVERY SECOND COURSE.
6. UNLESS NOTES OTHERWISE, PROVIDE A BOND BEAM AT THE TOP OF ALL REINFORCED WITH 2-15M CONTINUOUS REBARS.
7. PROVIDE REINFORCING DOWELS INTO CONCRETE FOOTINGS AND WALLS TO MATCH VERTICAL REINFORCING IN THE BLOCK WALLS. LAP SPLICE ALL REINFORCING AS FOLLOWING:
   10M 600MM(24")
   15M 750MM(30")
   20M 950MM(38")
   25M 1100MM(44")
8. PROVIDE ADDITIONAL REINFORCING TO MATCH WALL REINFORCING AT ALL CORNERS, OPENINGS AND IN THE GROUTED CELLS UNDER ALL BEARING PLATES AND LINTELS.
9. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE AND INSTALL LINTELS OVER ALL OPENINGS INCLUDING OPENINGS FOR MECH. IN ACCORDANCE WITH THE TYPICAL LINTEL SCHEDULE SHOWN ON THIS SHEET.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DESIGNED IN COMPLIANCE WITH THE REQUIREMENTS OF CSA S16 LATEST (EDITION).
2. ALL STRUCTURAL STEEL SAMPLES SHALL CONFORM TO CSA G40.21.
3. ALL WELDING SHALL CONFORM TO THE LATEST EDITIONS OF CSA W59 AND W47.1.
4. ALL STEEL SHALL BE SHOP PRIMED IN CONFORMANCE WITH CISC STANDARDS 1-73A AND 2-75, EXCEPT FOR INTERIOR STEEL THAT NEEDS TO BE SPRAYED WITH FIRE RESISTIVE MATERIAL AS PER ARCHITECTURAL DRAWINGS.
5. DO NOT CUT OPENINGS IN THE STRUCTURAL STEEL WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE AND REMOVE AFTERWARDS PROPER TEMPORARY BRACING TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION.
7. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL BOLTS SHALL BE A MINIMUM 3/4" DIAMETER AND CONFORM TO ASTM A325.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LAYOUTS, SIZES, MATERIALS, AND CONNECTION DETAILS. SHOP DRAWINGS SHALL BE STAMPED, DATED, AND SIGNED BY A PROFESSIONAL ENGINEER PRACTICING IN ONTARIO.

STEEL LINTELS IN NON-LOAD BEARING WALLS:

WALL THICKNESS	SPAN (MM)	LINTEL SIZE (MM)	DETAILS
90 MM (3-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	L90X90X6 L127X90X6 L127X90X8 L150X90X9.5	--- LLV LLV LLV
140 MM (5-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400	2-L64X64X6 2-L90X64X6 2-L90X64X8 W/100X10 PLATE	BACK TO BACK BACK TO BACK, LLV BACK TO BACK, LLV, PLATE WELDED TO U/S OF HORIZONTAL LEGS
190 MM (7-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	2-L75X90X6 2-L90X90X6 2-L100X90X8 2-L150X90X8	BACK T BACK, (LLH) BACK TO BACK BACK TO BACK, LLV BACK TO BACK, LLV
240 MM (9-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	2-L75X100X6 2-L100X100X6 2-L100X100X9.5 2-L150X100X8	BACK T BACK, (LLH) BACK TO BACK BACK TO BACK BACK TO BACK, LLV
290 MM (11-1/2")	UP TO 1200 >1200 TO 1800 >1800 TO 2400 >2400 TO 3000	3-L75X90X6 3-L90X90X6 3-L100X90X8 3-L127X90X8	INVERTED DOUBLE (T) WITH 90 LEGS HORIZONTAL

NOTES:

1. STITCH WELD BACK TO BACK ANGLES USING 6MM WELD, 50 MM LONG SPACED AT 450MM MAX. OR CONNECT USING 16MM BOLTS AT 450 MM MAX. WITH THE FIRST BOLT LOCATED AT 75 MM FROM THE END OF THE LINTEL
2. ENSURE EVEN BEARING OF STEEL LINTELS BY PROVIDING STEEL PACKING AS REQUIRED.
3. FOR LARGER OPENINGS AND FOR OPENINGS IN LOAD BEARING WALLS, SEE PLANS FOR LINTEL SIZES.

DESIGN LOADS:

LOADS CONSIDERED IN THE DESIGN ARE:
FLOORS:
DEAD LOAD: (4" CONCRETE ON STEEL DECK) 3.6 kPa
LIVE LOAD:
- ROOMS: 2.4kPa
- CORRIDORS: 4.8 kPa

ROOF:
DEAD LOAD: 1.2 kPa
SNOW: CALCULATED USING Ss=1.3KPA AND Sr=0.4KPA.
IMPORTANCE FACTOR: Is=1.15
WIND: CALCULATED USING $q(\frac{1}{50})$ = 0.46kPa, IMPORTANCE FACTOR Iw=1.15
MASONRY WALLS: (8" BLOCK) 2.6 kN/m2.
ELEVATOR HOIST BEAM:
34 kN (7500 Lbs.) POINT LOAD PLACED ANYWHERE ALONG THE SPAN OF THE BEAM.

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH
THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
Feb.27.2026
S. SOMO
100070797
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

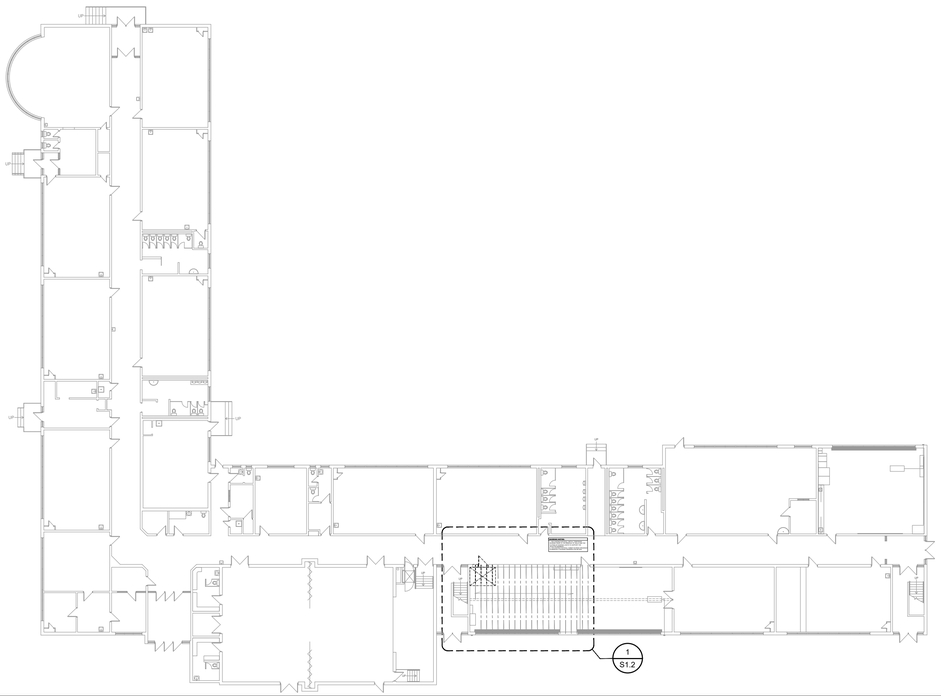
No.	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park
Accessibility Upgrades
165 Terrace Dr, Hamilton,
ON L9A 2Z2

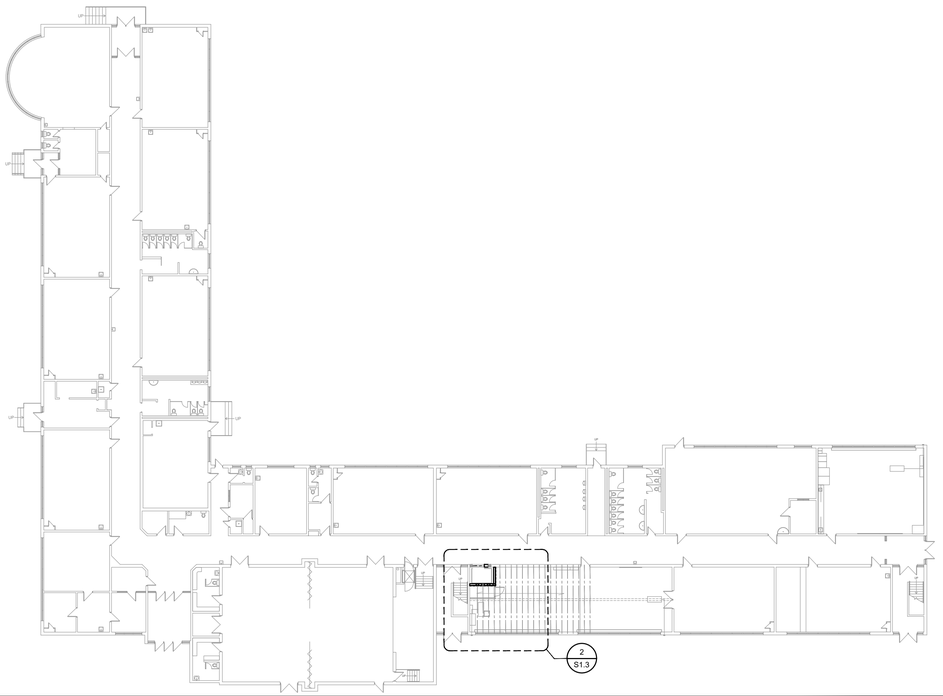
Dwg. Title:
GENERAL NOTES

Drwn: S.K. Chkd: S.S.
Proj. No.: 14019
Scale: As noted
Date: JAN. 2026

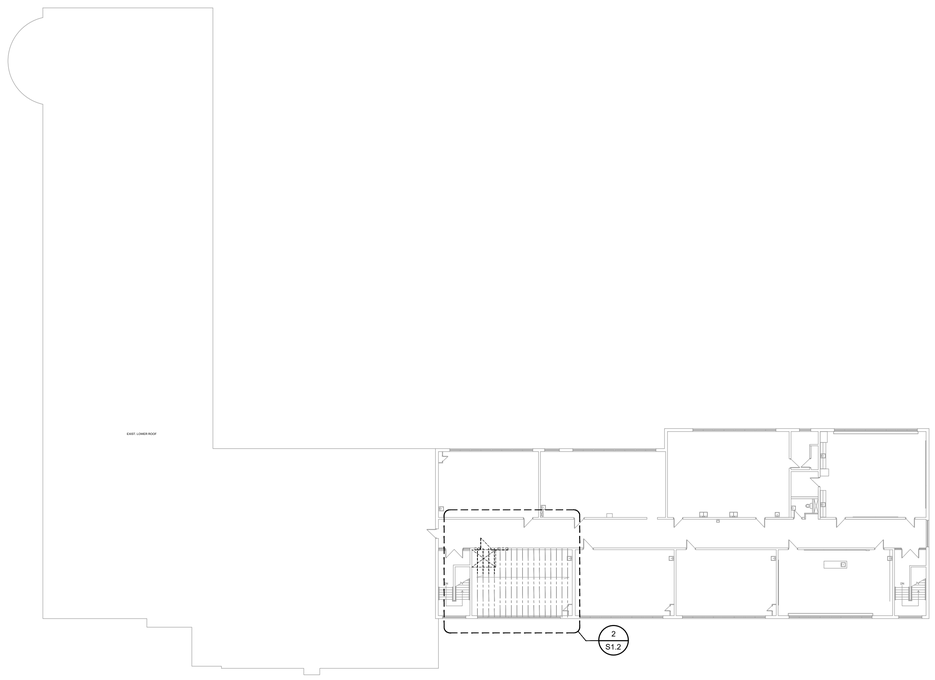
Drawing No.:
S0.0



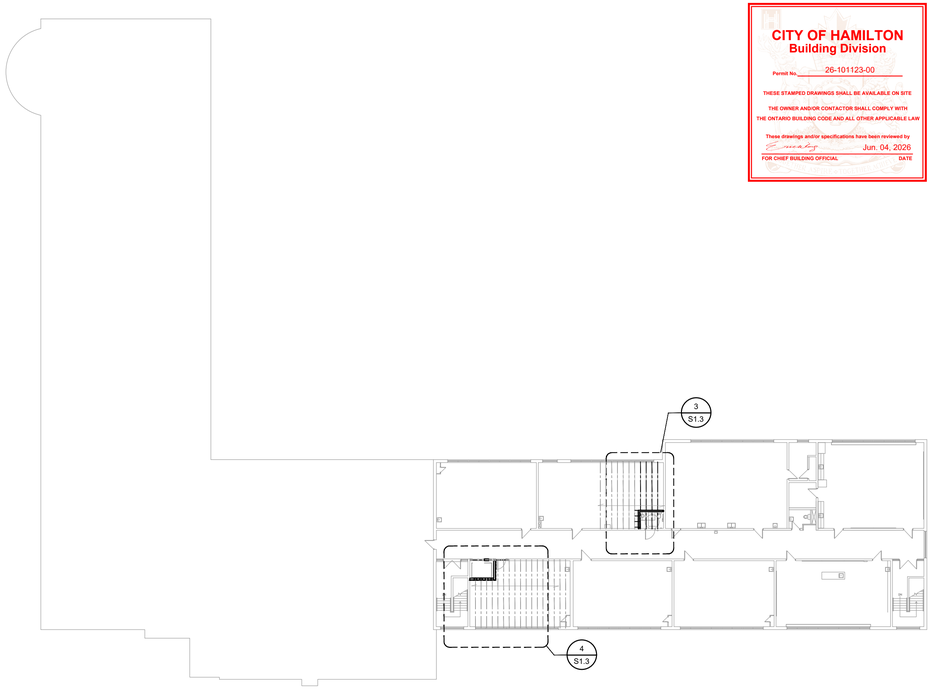
1 S1.0 GROUND FLOOR DEMOLITION PLAN
SCALE: 1:300



2 S1.0 GROUND FLOOR PLAN
SCALE: 1:300



3 S1.0 SECOND FLOOR DEMOLITION PLAN
SCALE: 1:150



4 S1.0 SECOND FLOOR PLAN
SCALE: 1:150

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
S. SOMJI
100070757
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

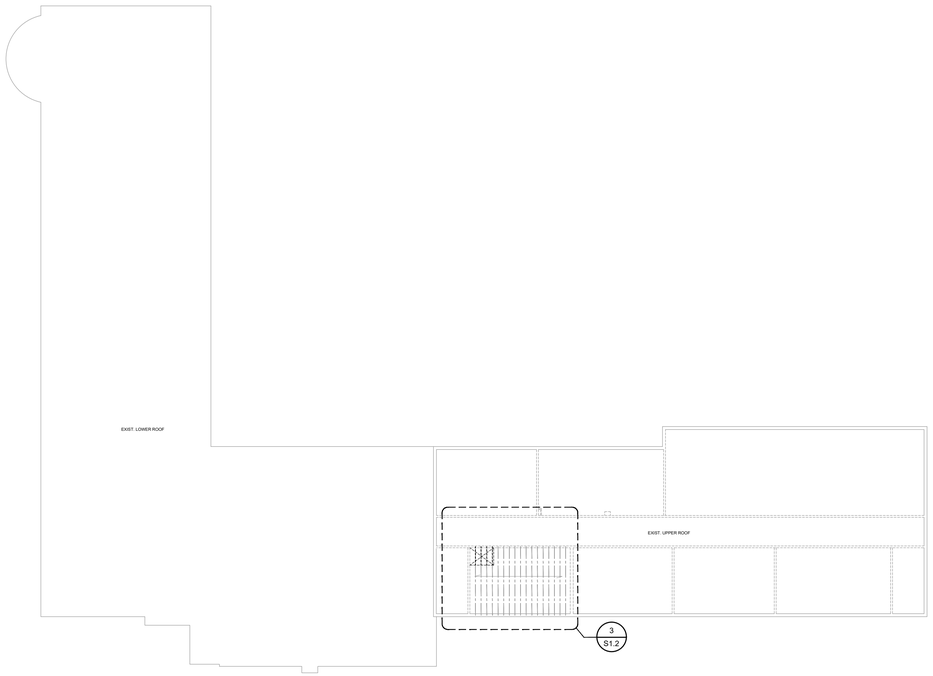
No.	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park Accessibility Upgrades
165 Terrace Dr, Hamilton, ON L9A 2Z2

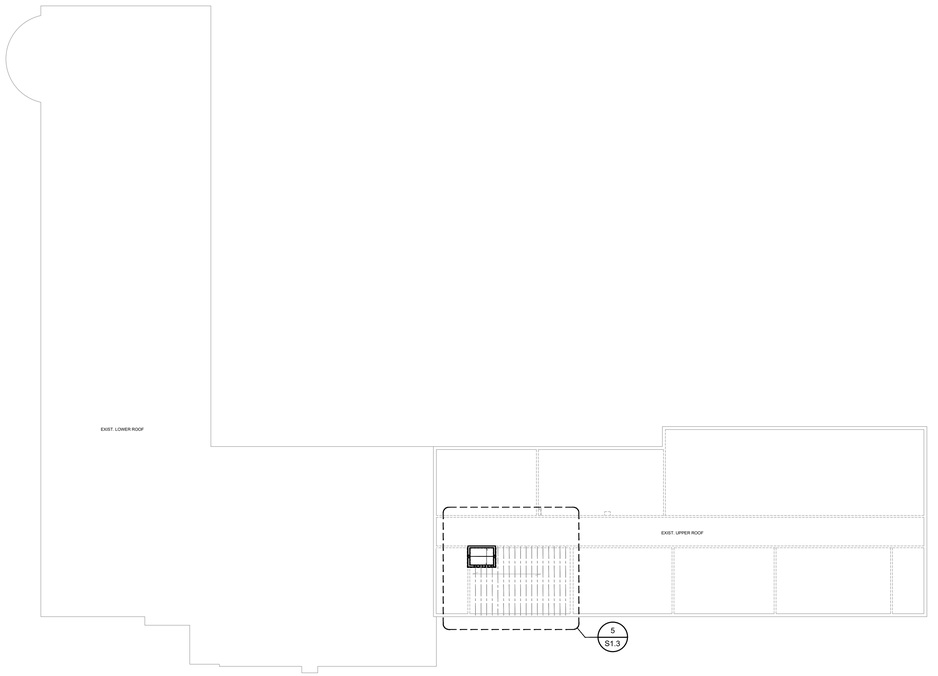
Dwg. Title:
FLOOR PLANS

Drwn:	S.K.	Chkd:	S.S.
Proj. No.:	14019		
Scale:	As noted		
Date:	JAN. 2026		

Drawing No.:
S1.0



1 S1.1 ROOF DEMOLITION PLAN
SCALE: 1:300



2 S1.1 ROOF PLAN
SCALE: 1:300

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
S. SOMJI
100076757
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

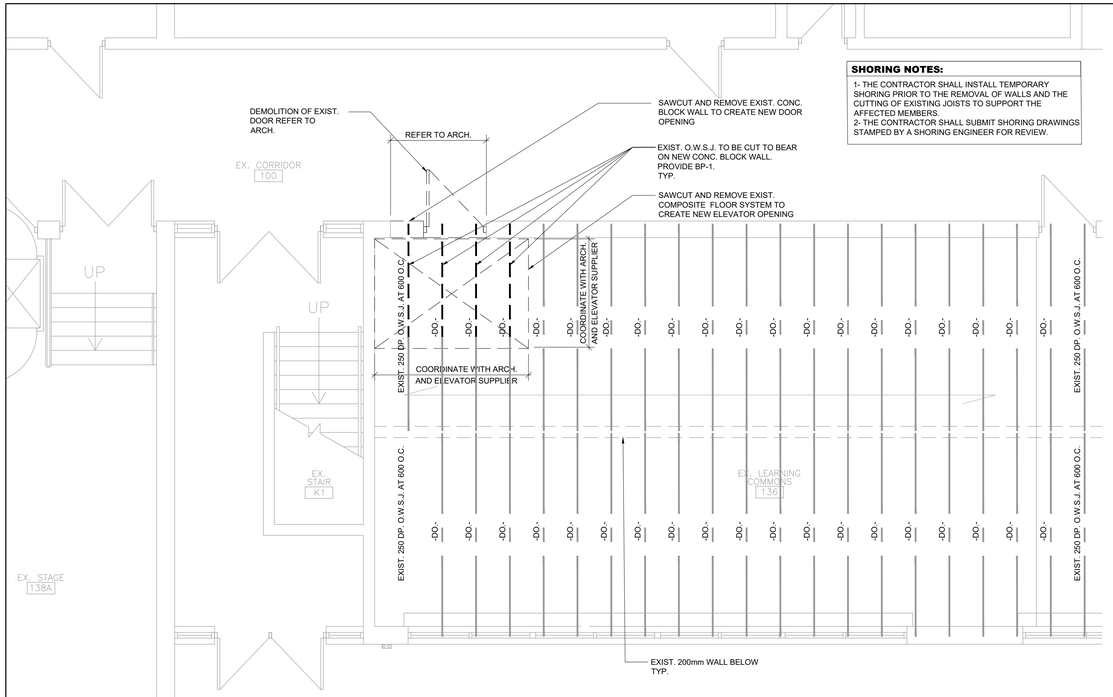
No.	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park
Accessibility Upgrades
165 Terrace Dr, Hamilton,
ON L9A 2Z2

Dwg. Title:
FLOOR PLANS

Drwn:	S.K.	Chkd:	S.S.
Proj. No.:	14019		
Scale:	As noted		
Date:	JAN. 2026		

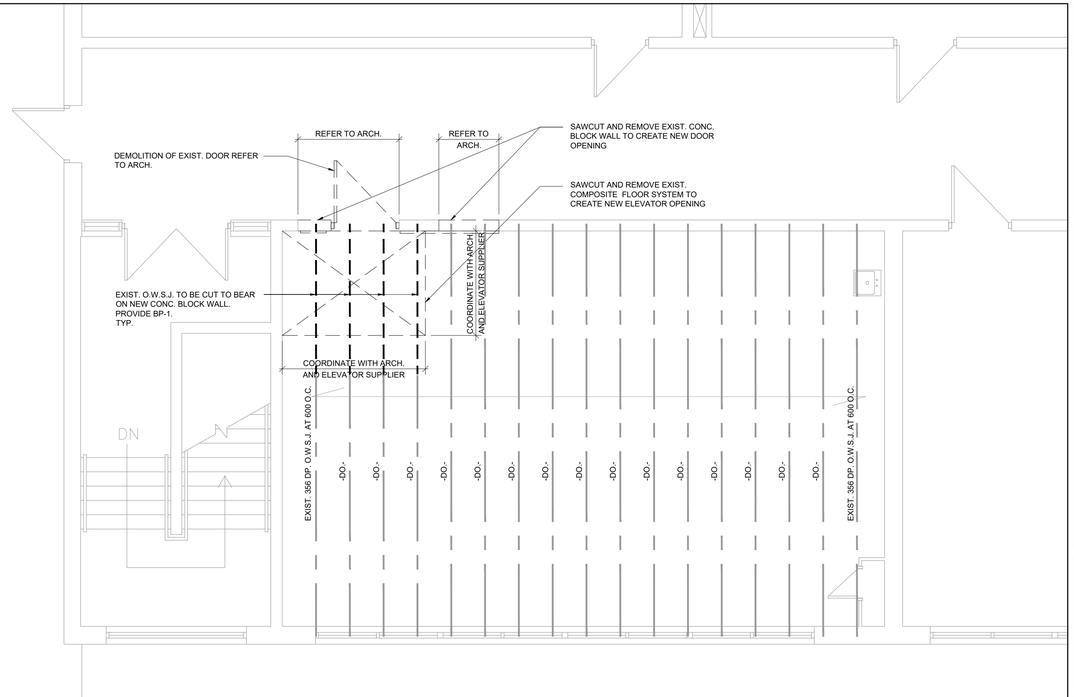
Drawing No.:
S1.1



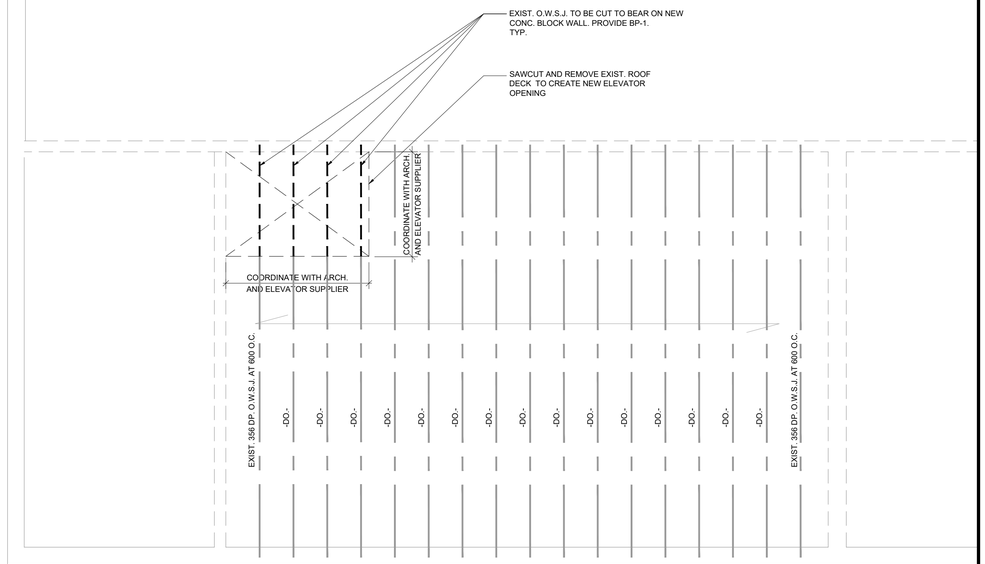
SHORING NOTES:

1- THE CONTRACTOR SHALL INSTALL TEMPORARY SHORING PRIOR TO THE REMOVAL OF WALLS AND THE CUTTING OF EXISTING JOISTS TO SUPPORT THE AFFECTED MEMBERS.
2- THE CONTRACTOR SHALL SUBMIT SHORING DRAWINGS STAMPED BY A SHORING ENGINEER FOR REVIEW.

1 / S1.2 PARTIAL GROUND FLOOR DEMOLITION PLAN
SCALE: 1:50



2 / S1.2 PARTIAL SECOND FLOOR DEMOLITION PLAN
SCALE: 1:50



3 / S1.2 PARTIAL ROOF DEMOLITION PLAN
SCALE: 1:50

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
S. SIVAS
100076757
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

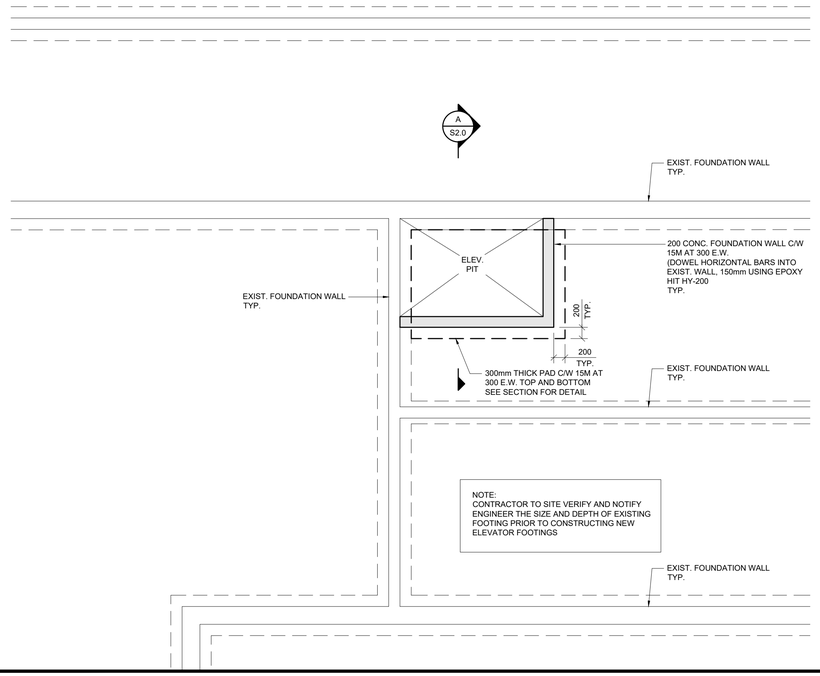
No.	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park
Accessibility Upgrades
165 Terrace Dr, Hamilton,
ON L9A 2Z2

Dwg. Title:
PARTIAL DEMOLITION PLANS

Drwn:	S.K.	Chkd:	S.S.
Proj. No.:	14019		
Scale:	As noted		
Date:	JAN. 2026		

Drawing No.:
S1.2



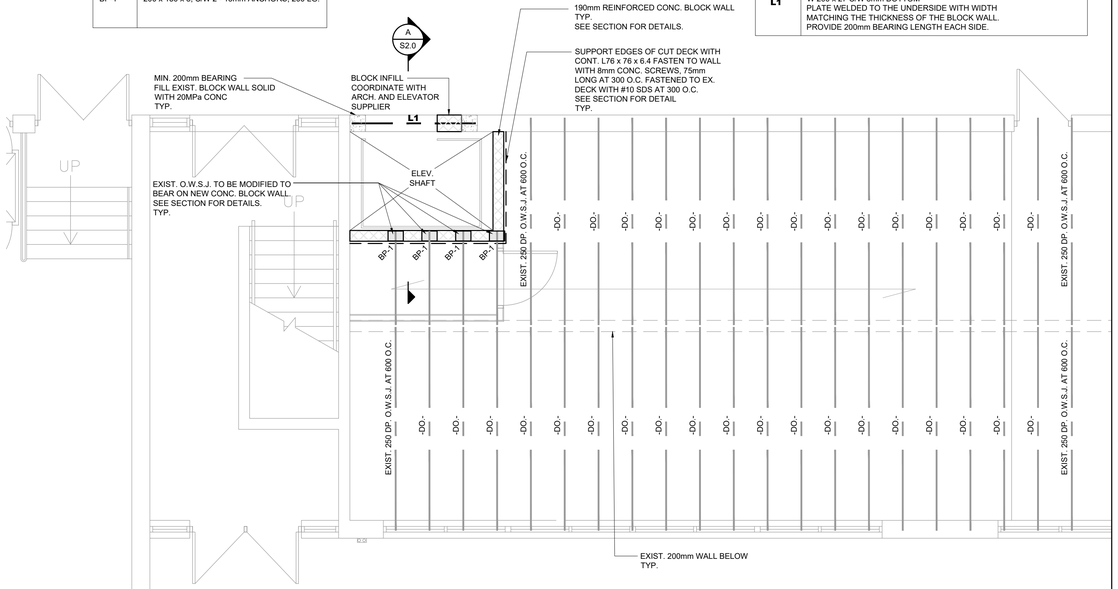
1 S1.3 PARTIAL FOUNDATION PLAN
SCALE: 1:50

BEARING PLATE SCHEDULE

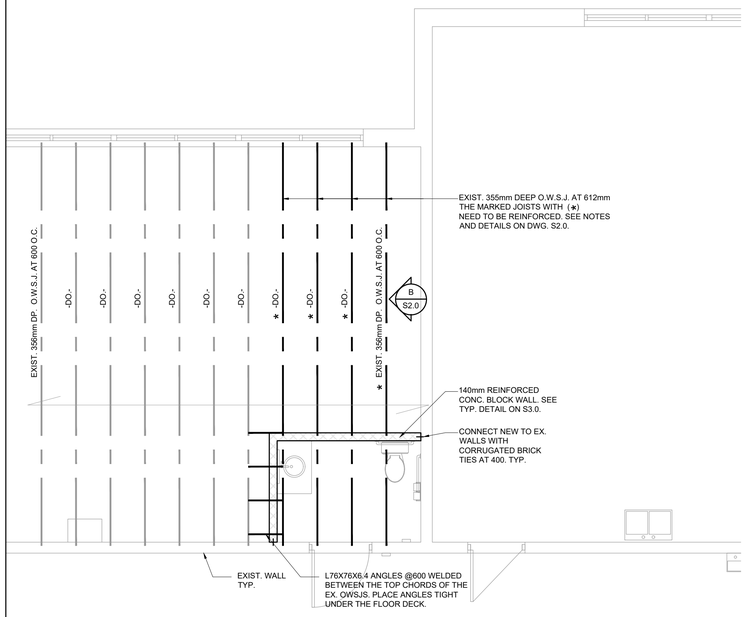
MARKED	DESCRIPTION
BP-1	200 x 150 x 8, C/W 2 - 13mm ANCHORS, 200 LG.

LINTEL SCHEDULE

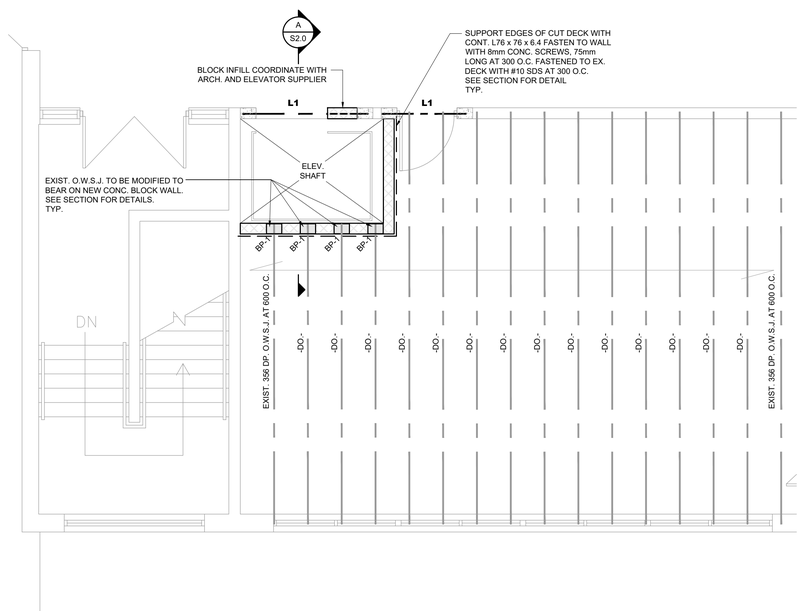
MARKED	DESCRIPTION
L1	W 200 x 27 C/W 8mm BOTTOM PLATE WELDED TO THE UNDERSIDE WITH WIDTH MATCHING THE THICKNESS OF THE BLOCK WALL. PROVIDE 200mm BEARING LENGTH EACH SIDE.



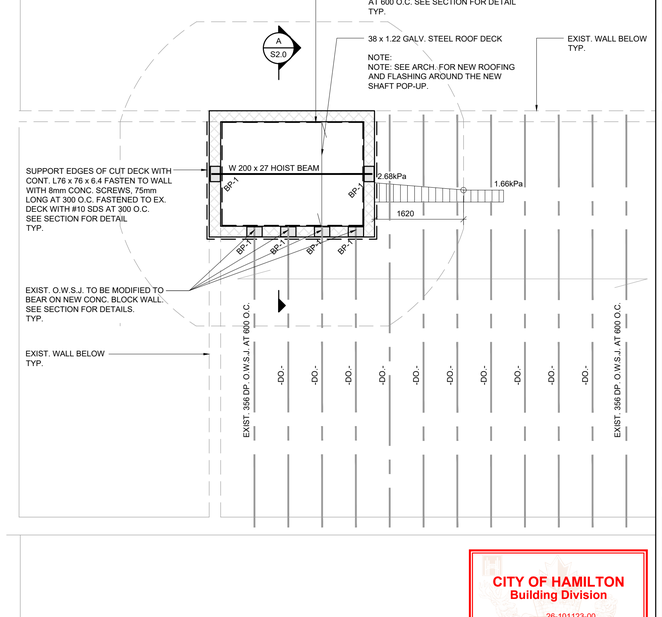
2 S1.3 PARTIAL GROUND FLOOR FRAMING PLAN
SCALE: 1:50



3 S1.3 PARTIAL GROUND FLOOR FRAMING PLAN
SCALE: 1:50



4 S1.3 PARTIAL SECOND FLOOR FRAMING PLAN
SCALE: 1:50



5 S1.3 PARTIAL ROOF FRAMING PLAN
SCALE: 1:50

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
S. SOMJI
100070707
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.

NOTE: DRAWINGS ARE NOT TO BE SCALED.

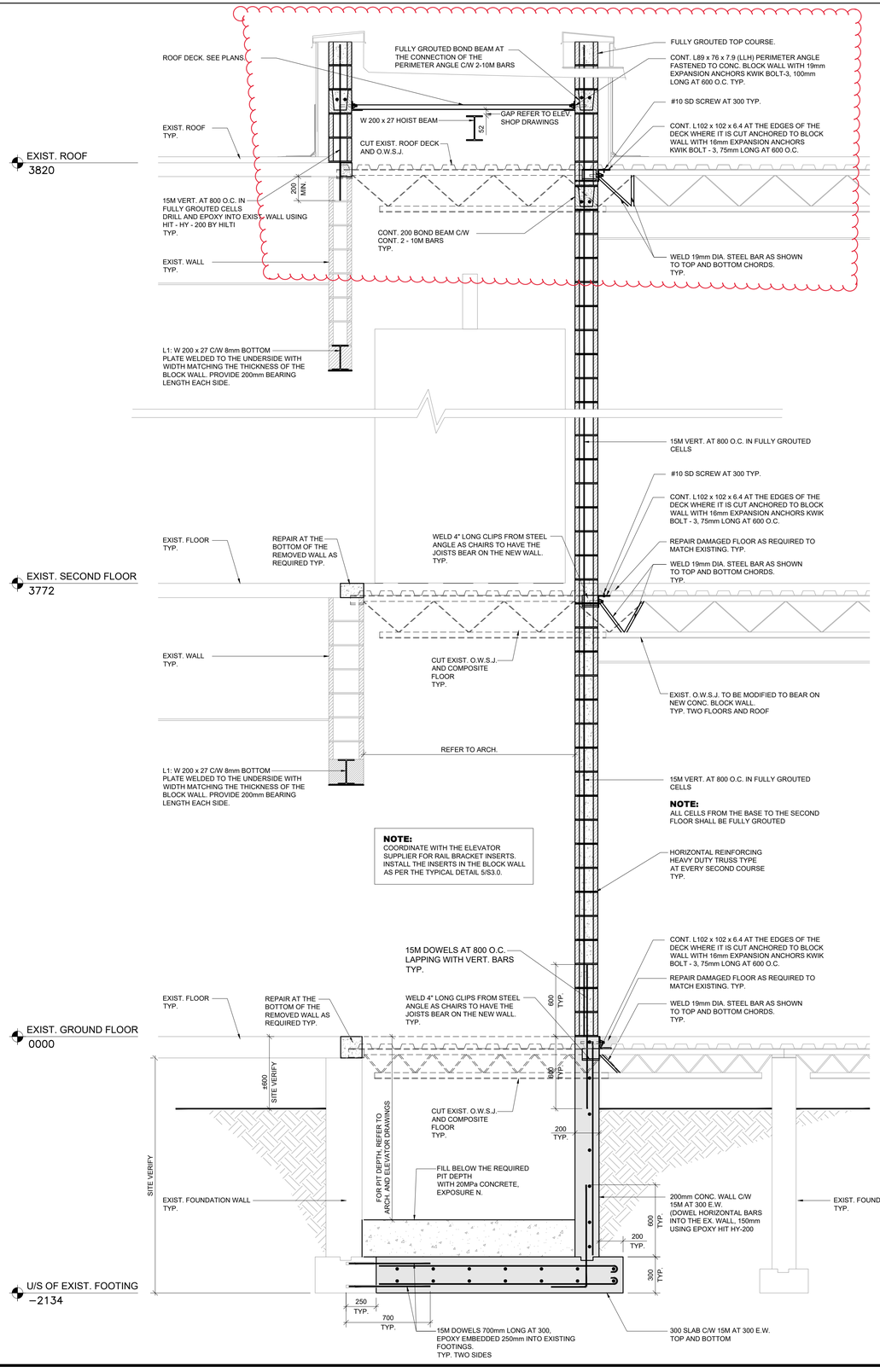
No.	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park
Accessibility Upgrades
165 Terrace Dr, Hamilton,
ON L9A 2Z2

Dwg. Title:
PARTIAL FRAMING PLANS

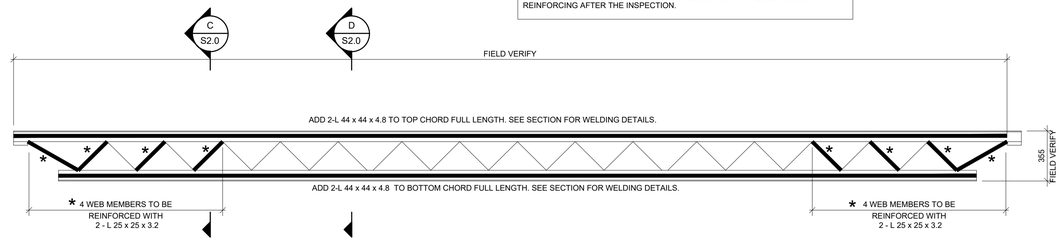
Drwn:	S.K.	Chkd:	S.S.
Proj. No.:	14019		
Scale:	As noted		
Date:	JAN. 2026		

Drawing No.:
S1.3

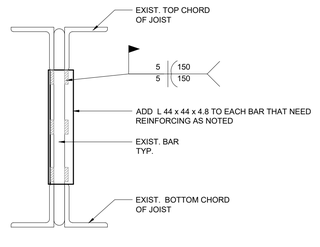


A S2.0 SECTION
SCALE: 1:20

NOTES:
1- THE PROFILE OF THE OWSJs THAT NEED REINFORCING IS ASSUMED. DO NOT CARRY OUT ANY REINFORCING PRIOR TO ENGINEER INSPECTION.
2- THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE JOISTS ARE EXPOSED TO BE REVIEWED AND INSPECTED.
3- THE ENGINEER WILL PROVIDE FINAL DIRECTIONS FOR THE METHOD OF REINFORCING AFTER THE INSPECTION.

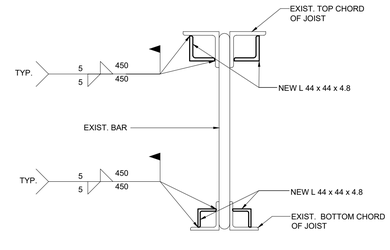


B S2.0 TYP. ELEVATION OF REINFORCED EXIST. O.W.S.J.
SCALE: 1:20



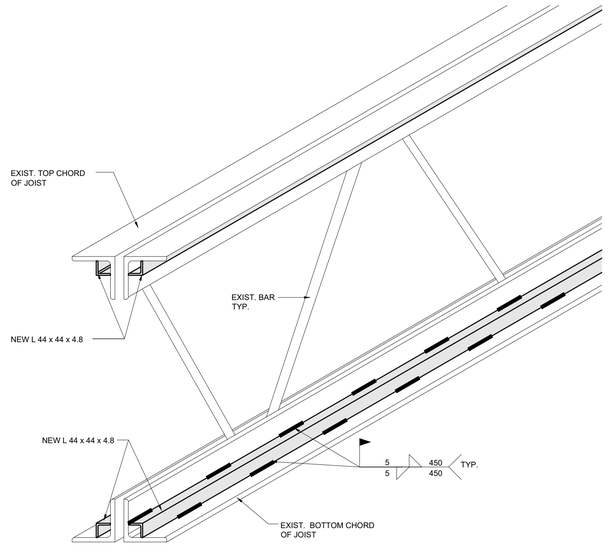
TYP. REINFORCING OF WEB MEMBERS (ROUND BAR)

C S2.0 SECTION
SCALE: 1:20



TYP. REINFORCING OF TOP AND BOTTOM CHORDS

D S2.0 SECTION
SCALE: 1:20



1 S2.0 ISOMETRIC VIEW OF O.W.S.J. REINFORCEMENT DETAIL
SCALE: N.T.S

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
S. SOMJI
100036793
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
NOTE: DRAWINGS ARE NOT TO BE SCALED.

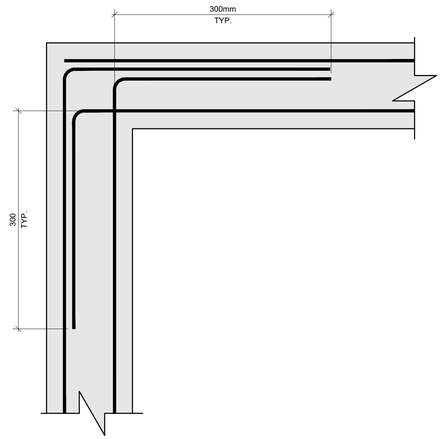
No.	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park
Accessibility Upgrades
165 Terrace Dr, Hamilton,
ON L9A 2Z2

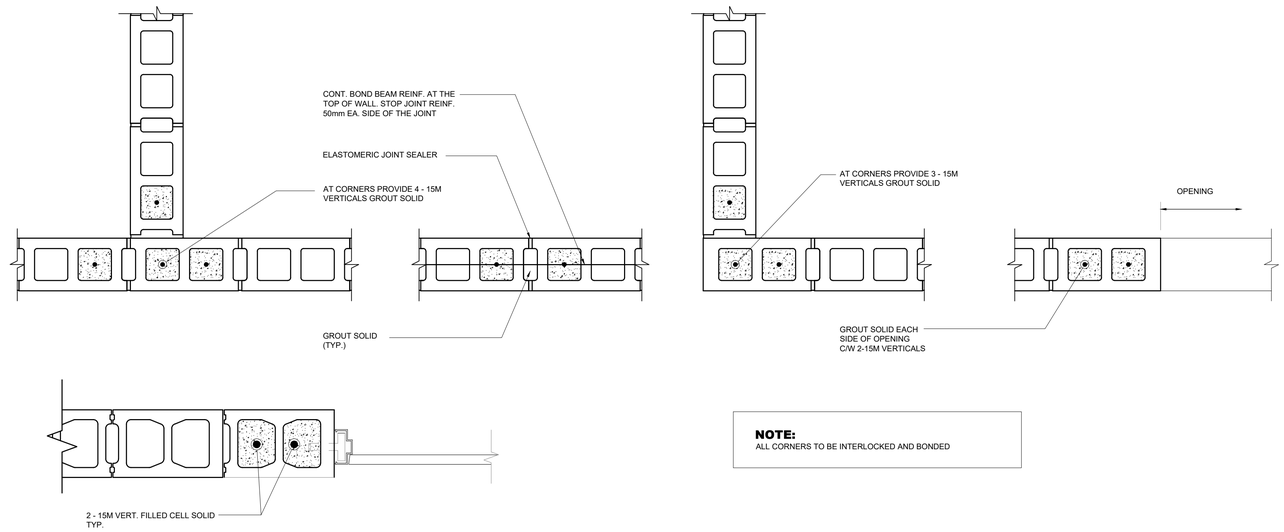
Dwg. Title:
SECTION AND DETAILS

Drwn:	S.K.	Chkd:	S.S.
Proj. No.:	14019		
Scale:	As noted		
Date:	JAN. 2026		

Drawing No.:
S2.0

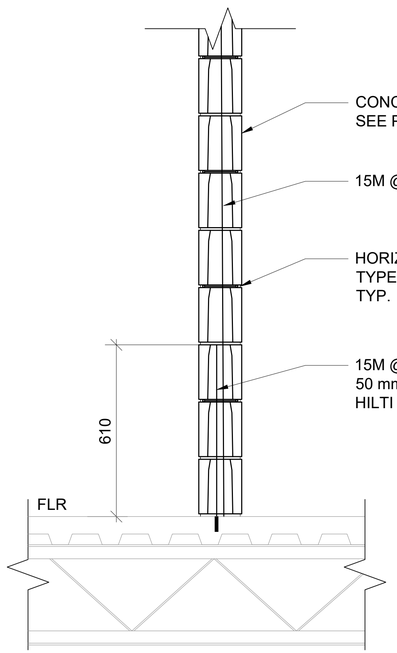


1 / S3.0 TYPICAL CORNER REBAR DETAIL
SCALE: 1:10

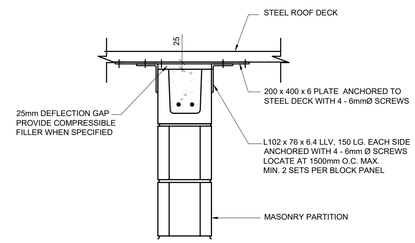


NOTE:
ALL CORNERS TO BE INTERLOCKED AND BONDED

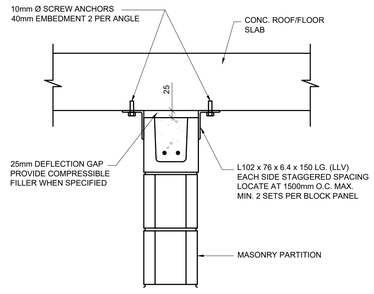
2 / S3.0 TYPICAL BLOCK WALL REINFORCING DETAILS
SCALE: 1:10



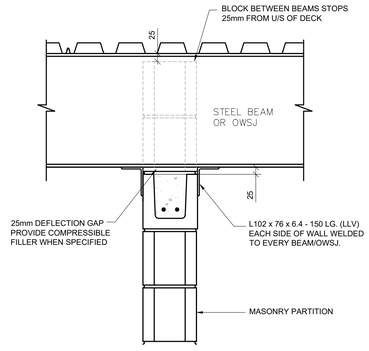
3 / S3.0 TYPICAL BLOCK PARTITION WALL DETAIL
SCALE: 1:20



WALL PERPENDICULAR TO THE FLUTES OF STEEL DECK

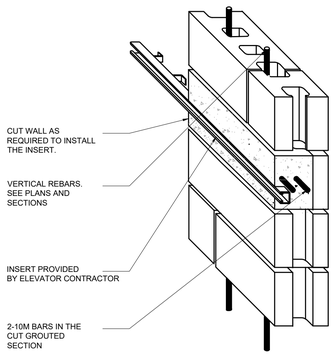


WALL UNDER CONCRETE SLAB



WALL PERPENDICULAR TO STEEL BEAMS/O.W.S.J.

4 / S3.0 TYPICAL BLOCK WALL RESTRAINT DETAIL
SCALE: 1:10



5 / S3.0 TYPICAL BLOCK WALL INSERT DETAIL
SCALE: 1:10

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

AILMAR ENGINEERING INC.
STRUCTURAL ENGINEERS
94 CURRAN RD.
ANCASTER, ON. L9K 0H4
PHONE: (905) 966-4797

LICENSED PROFESSIONAL ENGINEER
S. SOMJI
100076797
PROVINCE OF ONTARIO

CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
CONTRACT DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANTS AND SHALL NOT BE USED OR REPRODUCED WITHOUT AUTHORIZATION. DOCUMENTS ARE TO BE RETURNED UPON COMPLETION OF THE PROJECT.
NOTE: DRAWINGS ARE NOT TO BE SCALED.

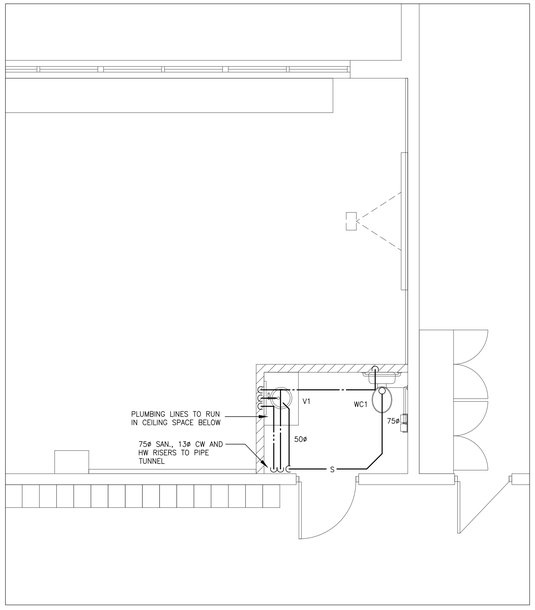
No	Date	Remarks
03	27/02/2026	Issued for Tender
02	29/01/2026	Issued for Permit
01	26/01/2026	Issued for Client Review

Renovations to
HWDSB Norwood Park
Accessibility Upgrades
165 Terrace Dr, Hamilton,
ON L9A 2Z2

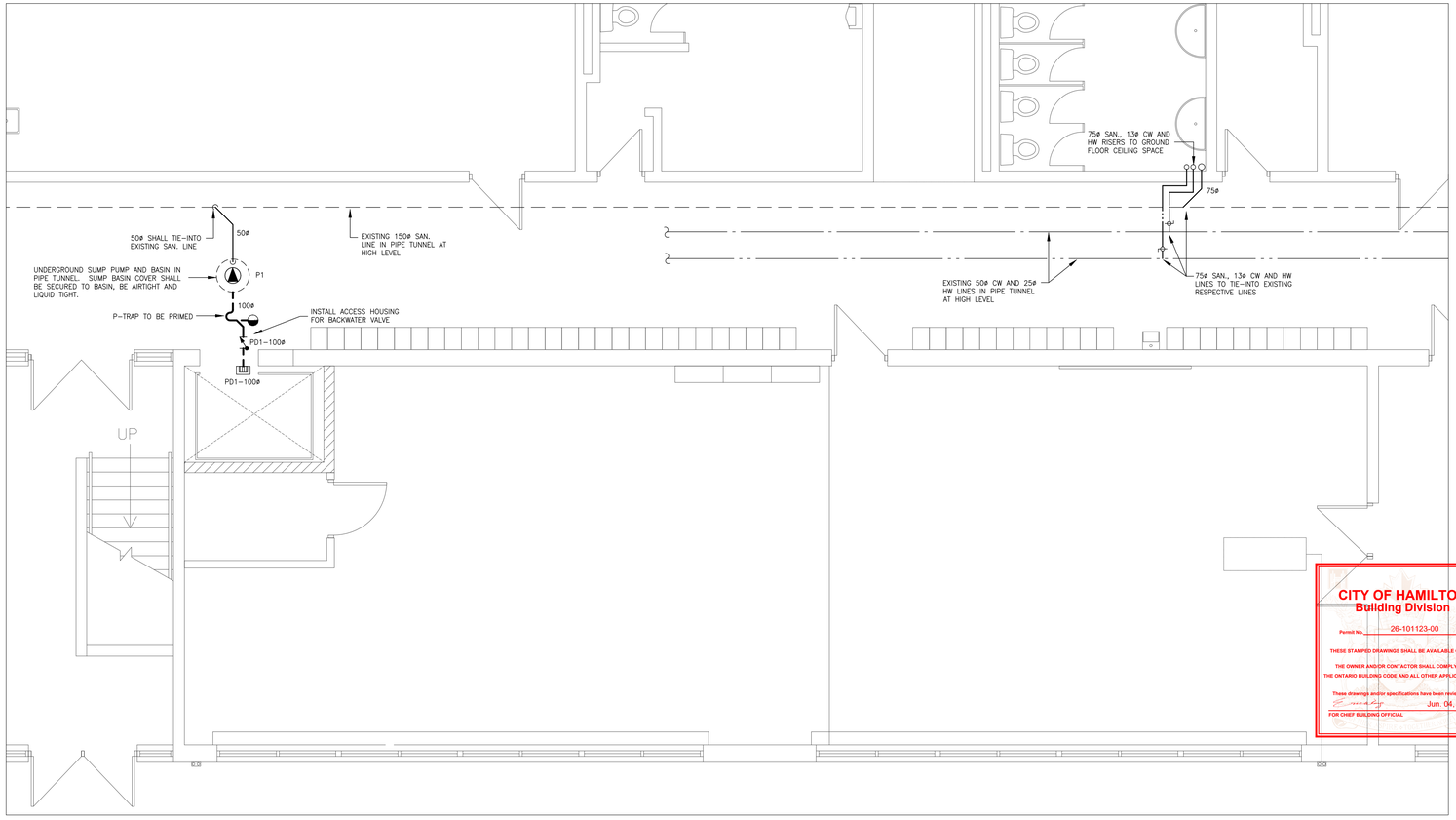
Dwg. Title:
TYP. DETAILS

Drwn:	S.K.	Chkd:	S.S.
Proj. No.:	14019		
Scale:	As noted		
Date:	JAN. 2026		

Drawing No.:
S3.0



2 M1-1 B.F. WASHROOM 203A
SECOND FLOOR PLUMBING RENOVATION
1:50



1 M1-1 ELEVATOR SHAFT
GROUND FLOOR PLUMBING RENOVATION
1:50

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

SYMBOL	DESCRIPTION
	NEW LINES
	EXISTING LINES
-x-x-x-	EQUIPMENT TO BE REMOVED
RL	EQUIPMENT TO BE RELOCATED
RV	EQUIPMENT TO BE REMOVED
	CAPPED LINE
	PIPE RISE
	PIPE DROP
-S-	SANITARY LINE BELOW GRADE
-S-	SANITARY LINE ABOVE GRADE
-SR-	STORM LINE BELOW GRADE
-SR-	STORM LINE ABOVE GRADE
CW	COLD WATER CW
HW	HOT WATER HW
HWR	HOT WATER RECIRCULATION HWR
-T-	TEMPERED HOT WATER
FD	FLOOR DRAIN
	FLOOR CLEANOUT
	LINE CLEANOUT
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	CHECK VALVE
BFP	BACKFLOW PREVENTOR
	PUMP
W	WATER METER
	HOSE BIB

NO.	DATE	REVISION
1	MAR.19/26	ISSUED FOR PERMIT

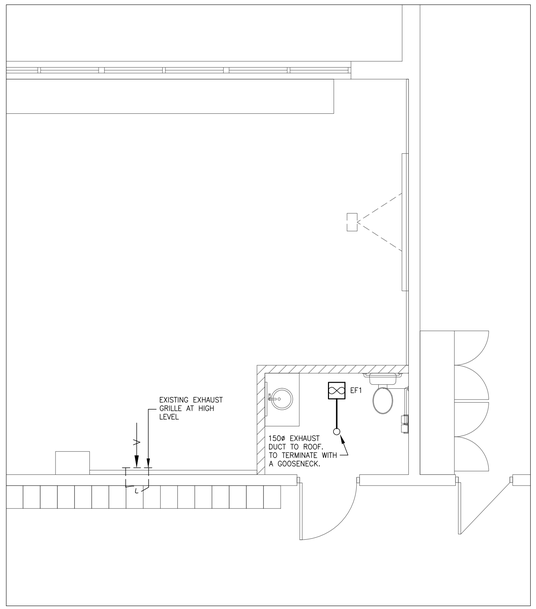
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR DURING THE COURSE OF WORK.

CoPA ENGINEERING LTD.
LICENSED PROFESSIONAL ENGINEER
C.T. PASHARTIS
90327800
MAR.19/26
PROVINCE OF ONTARIO
29 ROLLING ACRES DR.
KITCHENER, ONTARIO
N2A 3W5
MOB: (519) 496-2672

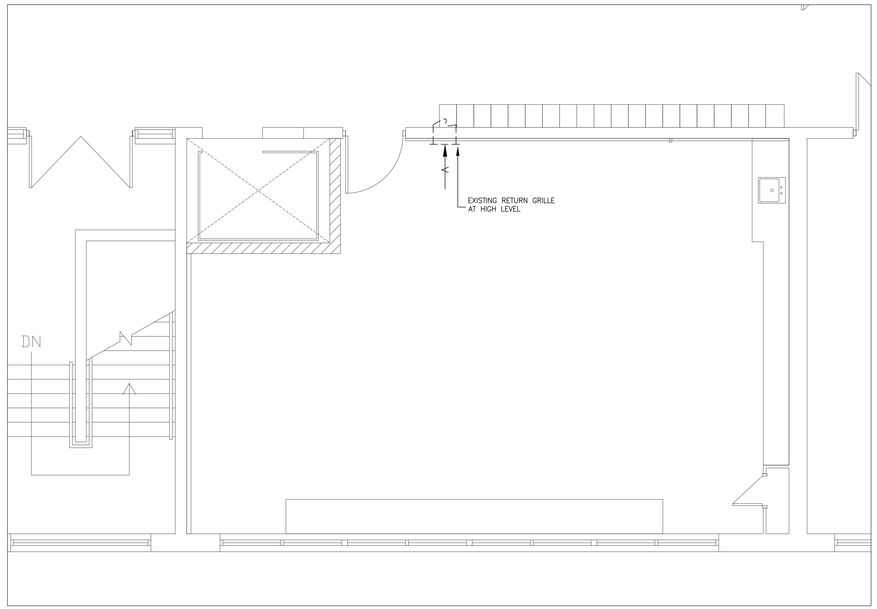
PROJECT
INTERIOR RENOVATIONS FOR HWDSB NORWOOD PARK ACCESSIBILITY UPGRADES
165 TERRACE DR.
HAMILTON ONTARIO

DRAWING
PLUMBING LAYOUTS

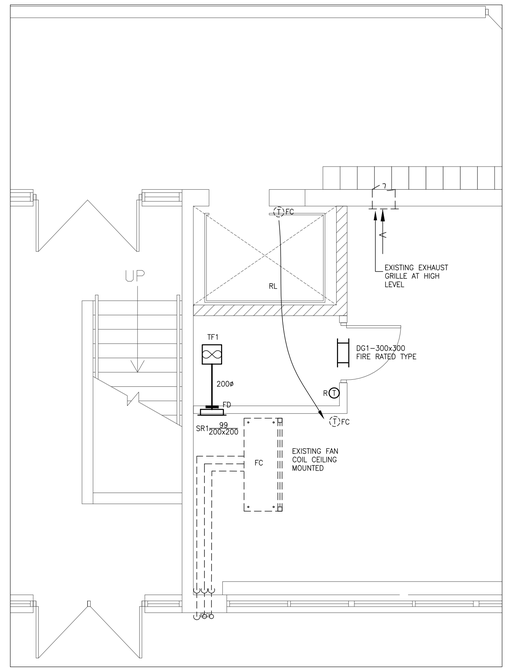
DRAWN BY: C. P.	SCALE: 1:50
CHECKED BY: C. PASHARTIS	DATE: MARCH 19, 2026
PROJECT NO. 25CP096	DRAWING NO. M1-1



2 M2-1 B.F. WASHROOM 203A
SECOND FLOOR HVAC RENOVATION
1:50



2 M2-1 ELEVATOR SHAFT
SECOND FLOOR HVAC RENOVATION
1:50



1 M2-1 ELEVATOR SHAFT AND LEARNING COMMONS 136
GROUND FLOOR HVAC RENOVATION
1:50

HVAC LEGEND

SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EQUIPMENT TO REMAIN
	EQUIPMENT TO BE REMOVED
RL	EQUIPMENT TO BE RELOCATED
RV	EQUIPMENT TO BE REMOVED
	DUCTING TO BE CAPPED
	SUPPLY DUCT
	EXHAUST/RETURN DUCT
	SUPPLY DIFFUSER
	DIFFUSER WITH BLANK SIDES
	SUPPLY REGISTER (WALL/SIDE DUCT MOUNTED)
	SUPPLY REGISTER
	ROUND DIFFUSER
	EXHAUST/RETURN GRILLE
A $\frac{2}{3}$	DIFFUSER/GRILLE DATA: A-REF, 2-L/S, 3-MM
	FLEXIBLE DUCT
	VOLUME CONTROL DAMPER
SD	SPLITTER DAMPER
FD	FIRE DAMPER
	EXHAUST FAN
T	THERMOSTAT
T_R	THERMOSTAT REVERSE ACTING 120v/1/60
V	VARIABLE SPEED CONTROLLER
	OPPOSED BLADE MOTORIZED DAMPER
	ACOUSTIC LINING
	FLEXIBLE CONNECTION
DG	DOOR GRILLE
TAD	TRANSFER AIR ELBOW ACOUSTICALLY LINED
FFH	ELECTRIC FAN FORCED HEATER(BY MECHAN. DIV.)
BBH	ELECTRIC BASEBOARD HEATER(BY MECHAN. DIV.)

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL — DATE

NO.	DATE	REVISION
1	MAR.19/26	ISSUED FOR PERMIT

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR DURING THE COURSE OF WORK.

CoPA ENGINEERING LTD.
LICENSED PROFESSIONAL ENGINEER
C.T. PASHARTIS
90327800
MAR.19/26
PROVINCE OF ONTARIO
29 ROLLING ACRES DR.
KITCHENER, ONTARIO
N2A 3W5
MOB: (519) 496-2672

PROJECT
INTERIOR RENOVATIONS FOR
HWDSB NORWOOD PARK
ACCESSIBILITY UPGRADES
165 TERRACE DR.
HAMILTON ONTARIO

DRAWING
HVAC
LAYOUTS

DRAWN BY: C. P.	SCALE: 1:50
CHECKED BY: C. PASHARTIS	DATE: MARCH 19, 2026
PROJECT NO. 25CP096	DRAWING NO. M2-1

GENERAL NOTES:

1. ANY COMBUSTIBLE MATERIALS INSTALLED IN THE CEILING SPACE USED AS A RETURN AIR PLENUM, SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. PLUMBING AND HVAC CONTRACTORS SHALL COORDINATE WITH ALL OTHER TRADES.
2. WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, ALL WIRING FOR CONTROL, TELEPHONE, DATA, SECURITY, SPEAKER WIRE ETC., SHALL BE FT6, CMP, MPP OR PLENUM VERIFIED.
3. THE SPECIFIED MANUFACTURERS MEANS THAT THE ITEM NAMED AND SPECIFIED, FORMS PART OF SPECIFICATION AND SETS STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP. ALTERNATE MANUFACTURERS WILL BE CONSIDERED AND ACCEPTED AS EQUAL PROVIDED THEY MEET THE STANDARD SPECIFIED.

MECHANICAL GENERAL REQUIREMENTS

1. DESCRIPTION OF WORK
   .1 THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOUR, MATERIAL, TOOLS, EQUIPMENT, SUPERVISION AND OTHER SERVICES AS MAY BE REQUIRED TO EXECUTE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
2. SITE EXAMINATION
   .1 BEFORE SUBMITTING TENDERS, CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS HAVING A BEARING ON THE WORK. VISIT THE EXISTING BUILDING AND THOROUGHLY ASCERTAIN THE EXTENT AND NATURE OF ALL CONDITIONS AFFECTING THE PERFORMANCE OF WORK.
3. CODES AND STANDARDS
   .1 THE INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS AND ALL AMENDMENTS OF THE FOLLOWING CODES AND STANDARDS. WHERE CONFLICTS IN REQUIREMENTS OCCUR, THE HIGHER STANDARDS WILL APPLY: ONTARIO BUILDING CODE, ONTARIO FIRE CODE, N.F.P.A., ASHRAE, NATURAL GAS INSTALLATION STANDARD CSA-B149.1 AND LOCAL CODES, STANDARDS AND BY-LAWS.
4. REGULATIONS, PERMITS, FEES, CONNECTION CHARGES AND CERTIFICATES
   .1 ALL MATERIALS AND WORKMANSHIP SHALL MEET ALL PROVINCIAL BUILDING, MUNICIPAL, N.F.P.A., AND FIRE MARSHALL REGULATIONS, CODES AND BYLAWS IN FORCE IN THE AREA OF THE PROJECT.
   .2 EACH CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY FOR ALL FEES AND CONNECTION CHARGES FOR ALL SERVICES PROVIDED BY THIS DIVISION.
5. COOPERATION OF TRADES
   .1 READ SPECIFICATIONS AND DRAWINGS OF OTHER TRADES AND CONFORM WITH THEIR REQUIREMENTS BEFORE PROCEEDING WITH ANY WORK SPECIFIED IN THIS DIVISION RELATED TO OTHER TRADES.
6. DRAWINGS
   .1 CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE MECHANICAL SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
   .2 WHERE THE EXACT LOCATIONS OF FIXTURES AND EQUIPMENT ARE NOT DEFINITELY ESTABLISHED, THE CONTRACTOR SHALL OBTAIN THIS INFORMATION FROM THE OWNER AND ENGINEER.
7. REMOVAL OF EXISTING EQUIPMENT
   .1 EXAMINE THE EXISTING BUILDING AND INCLUDE IN TENDER PRICE ALL NECESSARY ALLOWANCES TO REMOVE EXISTING EQUIPMENT AS DETAILED ON DRAWINGS AND AS DIRECTED BY THE GENERAL CONTRACTOR.
   .2 MATERIALS REMOVED BY THIS DIVISION SHALL BECOME CONTRACTOR'S PROPERTY AND BE REMOVED FROM WORK SITE, PROVIDED:
      .1 THE ITEMS HAVE BEEN INSPECTED BY THE OWNER AND GENERAL CONTRACTOR AND RELEASED FOR REMOVAL.
      .2 ITEMS HAVE NOT BEEN DESIGNATED FOR REUSE IN OTHER SECTIONS OF SPECIFICATIONS OR DRAWINGS.
8. ALTERATION TO EXISTING
   .1 PRIOR TO REMOVAL AND ALTERATION OF THE EXISTING SYSTEMS, THE CONTRACTOR SHALL IDENTIFY TO THE ENGINEER AT WHICH SECTIONS OF THE EXISTING MECHANICAL EQUIPMENT, PIPING AND DUCTWORK SHALL BE CUT BACK AND REMOVED.
   .2 RELOCATE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES AS SPECIFICALLY INDICATED ON DRAWINGS OR SPECIFIED AND AS REQUIRED TO SUIT ALTERATION WORK. CLEAN RELOCATED EQUIPMENT AND INSTALL IN NEW LOCATION, IN A NEAT ORDERLY MANNER WITH SAME ATTENTION AS GIVEN TO NEW EQUIPMENT. WHERE EXISTING MATERIAL OR EQUIPMENT IS NO LONGER REQUIRED, SHALL BE CUT BACK AND MAKE GOOD TO SATISFACTION OF THE ENGINEER. WHEN EXISTING MATERIAL OR EQUIPMENT IS DISCONNECTED OR DISASSEMBLED TO FACILITATE RELOCATION, REINSTALL AS ORIGINAL, INCLUDING AUXILIARY WORK, INSULATION, ELECTRICAL WORK ETC.
   .3 WHERE EXISTING MATERIAL OR EQUIPMENT IS DAMAGED, MAKE GOOD TO THE SATISFACTION OF ENGINEER. IF IT IS FOUND IN AN UNSUITABLE CONDITION, NOTIFY ENGINEER FOR INSTRUCTIONS.
   .4 OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER FOR ALTERATION WORK THAT IS NOT SPECIFICALLY CALLED FOR OR CLEARLY INDICATED ON DRAWINGS.
9. PROTECTION OF OPENINGS
   .1 PROTECT EQUIPMENT AND SYSTEMS OPENINGS FROM DIRT, DUST, AND OTHER FOREIGN MATERIALS.
   .2 THIS CONTRACTOR SHALL PROTECT FINISHED AND UNFINISHED WORK OF HIS OWN AND OTHER SUBCONTRACTORS FROM DAMAGE DUE TO CARRYING OUT HIS WORK. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIALS AND EQUIPMENT SUPPLIED UNDER THIS CONTRACT OR REMOVED FROM EXISTING BUILDING FOR REUSE AND SHALL PROVIDE ALL NECESSARY PROTECTION FOR SAME. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE WORK OF THIS SECTION, UNTIL THE BUILDING HAS BEEN COMPLETED AND ACCEPTED.
10. CUTTING AND PATCHING
   .1 RESPONSIBILITY FOR CUTTING OF OPENINGS TO WALLS, FLOORS, ROOF AND ANY OTHER SURFACES IN THE STRUCTURE SHALL BE COORDINATED WITH GENERAL CONTRACTOR. IN ADDITION, RESPONSIBILITY FOR THE PATCHING AND FINISHING OF THESE SURFACES AND ASSEMBLIES SHALL ALSO BE COORDINATED WITH GENERAL CONTRACTOR. WORK SHALL BE PERFORMED BY THE EXPERT TRADE WHO SPECIALIZE IN THEIR WORK. IN THE EVENT THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR THIS WORK, THIS SCOPE OF WORK SHALL BE INCLUDED UNDER THE MECHANICAL CONTRACTOR.
   .2 BEFORE CUTTING OF OPENINGS IN THE STRUCTURE, THE CONTRACTOR SHALL IDENTIFY TO THE STRUCTURAL ENGINEER AND THE OWNER'S REPRESENTATIVE AT WHICH SECTIONS OF THE BUILDING STRUCTURE ARE TO BE CUT BACK. THE CUTTING, PATCHING AND FINISHING OF THE ASSEMBLIES RESTRICTED BY THE WORK OF THIS DIVISION SHALL BE PERFORMED BY THE AFFECTED/EXPERT TRADE.
   .3 UNDER NO CIRCUMSTANCES SHALL ANY CUTTING OR BURNING OF THE STRUCTURAL PARTS OF THE BUILDING BE UNDERTAKEN WITHOUT THE WRITTEN AUTHORITY OF THE ENGINEER.
11. EXCAVATING, BACKFILLING, COMPACTING AND FLOOR CEMENTING
   .1 RESPONSIBILITY FOR EXCAVATING, BACKFILLING AND COMPACTING FOR PLUMBING PIPES AND DRAINS PROVIDED BY THIS DIVISION SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL BACKFILLING SHALL BE NEW CLEAN GRANULAR FILL BROUGHT IN SPECIFICALLY FOR THE PURPOSE OF BACKFILLING. ALL BACKFILLING SHALL BE COMPACTED AT INTERVALS OF NOT MORE THAN 6" LAYERS TO THE SATISFACTION OF THE ENGINEER. RESPONSIBILITY FOR FLOOR CEMENTING SHALL BE COORDINATED WITH GENERAL CONTRACTOR. IN THE EVENT THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR THIS WORK, THIS SCOPE OF WORK SHALL BE INCLUDED UNDER THE MECHANICAL CONTRACTOR.
12. EQUIPMENT INSTALLATION
   .1 ALL EQUIPMENT, FIXTURES, PIPES, INSULATION AND ASSOCIATED APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
   .2 SPACE FOR SERVICING, DISASSEMBLY AND REMOVAL OF EQUIPMENT AND COMPONENTS: PROVIDE AS RECOMMENDED BY MANUFACTURER OR AS INDICATED.
   .3 CONTROL PANELS, ELECTRICAL PANELS AND WIRING TERMINATION POINTS PROVIDE MINIMUM 40" CLEARANCE.
   .4 EQUIPMENT DRAINS: PIPE TO FLOOR DRAINS.
13. ROOF CONES AND FLASHING
   .1 ROOF CONES FOR PIPES AND ROUND DUCTS PENETRATING ROOF SHALL BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.
   .2 IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO SEE THAT ACCEPTABLE FLASHING ARE INSTALLED WHERE NECESSARY FOR THE WORK OF HIS TRADE. COUNTER FLASHING IS BY ROOFING CONTRACTOR AT THE EXPENSE OF THE MECHANICAL CONTRACTOR.
14. SLEEVES
   .1 THIS CONTRACTOR SHALL SUPPLY AND INSTALL SUITABLE SLEEVES FOR PIPING AND DUCTWORK PENETRATIONS TO THE BUILDING STRUCTURE.
   .2 PIPE SLEEVES: INSTALL AT POINTS WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR U.L.C. FIRE RATED ASSEMBLIES AND AS INDICATED.
   .3 SCHEDULE 40 STEEL PIPE.
   .4 SLEEVES WITH ANNULAR FIN CONTINUOUSLY WELDED AT MIDPOINT:
   .5 SIZES: 1/4" CLEARANCE ALL AROUND, BETWEEN SLEEVE AND NON-INSULATED PIPE OR BETWEEN SLEEVE AND INSULATION.
   .6 TERMINATE SLEEVES FLUSH WITH SURFACE OF CONCRETE AND MASONRY WALLS AND CONCRETE FLOORS ON GRADE IN FINISHED AREAS.
   .7 FILL VOIDS AROUND PIPES:
      .1 WHERE SLEEVES PASS THROUGH WALLS, PROVIDE SPACE FOR FIRE STOPPING. WHERE PIPES PASS THROUGH FIRE RATED WALLS AND PARTITIONS, MAINTAIN FIRE RATING INTEGRITY.
      .2 ENSURE NO CONTACT BETWEEN COPPER TUBE OR PIPE AND FERROUS SLEEVE.
      .3 FILL FUTURE-USE SLEEVES WITH LIME PLASTER OR OTHER EASILY REMOVABLE FILLER.
      .4 COAT EXPOSED EXTERIOR SURFACES OF FERROUS SLEEVES WITH HEAVY APPLICATION OF ZINC RICH PAINT
15. PREPARATION FOR FIRE STOPPING
   .1 FIRE STOPPING MATERIALS AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN PIPES, DUCTS, INSULATION AND ADJACENT FIRE SEPARATION: TO THE APPROVAL OF THE ENGINEER.
   .2 UNINSULATED UNHEATED PIPES NOT SUBJECT TO MOVEMENT: NO SPECIAL PREPARATION.
   .3 UNINSULATED HEATED PIPES SUBJECT TO MOVEMENT: WRAP WITH NON-COMBUSTIBLE SMOOTH MATERIAL TO PERMIT PIPE TO MOVE WITHOUT DAMAGING FIRE STOPPING.
   .4 INSULATED PIPES AND DUCTS: ENSURE INTEGRITY OF INSULATION AND VAPOUR BARRIER AT FIRE SEPARATION.
16. ESCUTCHEONS
   .1 PROVIDE ON EXPOSED PIPES PASSING THROUGH WALLS, PARTITIONS, FLOORS AND CEILINGS ON FINISHED AREAS.
   .2 CHROME OR NICKEL PLATED BRASS OR TYPE 302 STAINLESS STEEL, SPLIT PIECE TYPE WITH SET SCREWS.
   .3 OUTSIDE DIAMETER TO COVER OPENING OR SLEEVE.
   .4 INSIDE DIAMETER TO FIT AROUND FINISHED PIPE.
   .5 SECURE TO PIPE OR FINISHED SURFACE BUT NOT INSULATION.
17. TESTS
   .1 INSULATE OR CONCEAL WORK ONLY AFTER TESTING AND APPROVAL BY ENGINEER.
   .2 BEAR ALL COSTS IN CONNECTION WITH ALL TESTS, INCLUDING REPAIRING LEAKS RETESTING AND MAKING GOOD.
   .3 PRIOR TO TESTS, ISOLATE ALL EQUIPMENT AND OTHER PARTS WHICH ARE NOT DESIGNED TO WITHSTAND TEST PRESSURES OR TEST MEDIUM.
   .4 PROVIDE CERTIFICATES INDICATING RESULTS OF ALL TESTS INCLUDING TEST LOGS.
   .5 PIPING:
      .1 PLUMBING LINES SHALL BE TESTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
18. PIPE FLUSHING AND CLEANING
   .1 AFTER PRESSURE TESTS ARE COMPLETED AND APPROVED, PRIOR TO START-UP AND PLACING INTO OPERATION, FLUSH AND CLEAN OUT ALL PIPING SYSTEMS.
   .2 FOR DOMESTIC WATER SYSTEM, CLEAN AS PER ONTARIO BUILDING CODE AND LOCAL REQUIREMENTS.
19. ACCESS DOORS
   .1 SUPPLY ACCESS DOORS TO CONCEALED MECHANICAL EQUIPMENT FOR OPERATING, INSPECTING, ADJUSTING AND SERVICING.
   .2 ACCESS DOORS REQUIRED IN LISTED FIRE SEPARATION SHALL BEAR A ULC LABEL TO MATCH WALL CLASSIFICATION.
20. DIELECTRIC COUPLINGS
   .1 PROVIDE WHERE PIPES OF DISSIMILAR METALS ARE JOINED. SHALL BE COMPATIBLE WITH AND TO SUIT PRESSURE RATING OF PIPING SYSTEM.
   .2 PIPES NPS 2 AND UNDER SHALL BE WITH ISOLATING UNIONS. PIPES NPS 2 1/2 AND OVER SHALL BE ISOLATING FLANGES.
   .3 PROVIDE FELT OR RUBBER GASKET TO PREVENT DISSIMILAR METALS CONTACT.
21. DRAIN VALVES
   .1 LOCATE AT LOW POINTS AND AT SECTION ISOLATING VALVES UNLESS OTHERWISE SPECIFIED.
   .2 MINIMUM NPS 3/4 UNLESS OTHERWISE SPECIFIED: BRONZE, WITH HOSE END MALE THREAD.
22. EQUIPMENT SUPPORTS
   .1 EQUIPMENT SUPPORTS NOT SUPPLIED BY EQUIPMENT MANUFACTURER SHALL BE FABRICATED FROM STRUCTURAL GRADE STEEL.
   .2 RESPONSIBILITY FOR ROOFING AND REINFORCING OF ROOF FOR MECHANICAL EQUIPMENT SUPPORT SHALL BE COORDINATED WITH GENERAL CONTRACTOR. IN THE EVENT THE GENERAL CONTRACTOR WILL NOT BE RESPONSIBLE FOR THIS WORK, THIS SCOPE OF WORK SHALL BE INCLUDED UNDER THE MECHANICAL CONTRACTOR.
23. PIPE HANGERS AND SUPPORTS
   .1 PROVIDE UPPER ATTACHMENTS, MIDDLE ATTACHMENT ROD, PIPE ATTACHMENT, RISER CLAMPS, SADDLES, SHIELDS AND OTHER DEVICES. RIGID, SWING OR ANY OTHER HANGER SYSTEM SHALL BE SUITABLE FOR THE APPLICATION AND TAKE INTO ACCOUNT ATTACHMENT IN AREAS MADE OF CONCRETE SLAB, STEEL BEAM, WOOD JOISTS AND STEEL JOISTS AND FOR EXPANSION OF PIPING.
   .2 HANGER SPACING AND MIDDLE ATTACHMENT (ROD) DIAMETER AS PER REGULATORY AUTHORITIES AND MANUFACTURER'S RECOMMENDATIONS.
   .3 INSTALL HANGER SO THAT ROD IS VERTICAL UNDER OPERATING CONDITIONS. ADJUST HANGERS TO EQUALIZE LOAD. SUPPORT FROM STRUCTURAL MEMBERS. WHERE STRUCTURAL BEARING DOES NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATIONS, PROVIDE SUPPLEMENTARY STRUCTURAL STEEL MEMBERS.
   .4 WHERE SUPPORTING COPPER PIPE, IT SHALL BE ISOLATED FROM ANY NON-COPPER HANGER WITH ELECTROLYTIC ACTION TAPE OR EQUIVALENT.
24. SHOP DRAWINGS AND PRODUCT DATA
   .1 EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
   .2 SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
      .1 MOUNTING ARRANGEMENTS.
      .2 OPERATING AND MAINTENANCE CLEARANCES. EG. ACCESS DOOR, SWING SPACES.
   .3 TYPE, NAME, CATALOGUE NUMBERS, TECHNICAL PERFORMANCE DATA, WIRING DIAGRAMS ETC
25. PAINTING
   .1 APPLY AT LEAST ONE COAT OF CORROSION RESISTANT PRIMER PAINT TO FERROUS SUPPORTS AND SITE FABRICATED WORK.
   .2 PRIME AND TOUCH UP MARRED FINISHED PAINT WORK TO MATCH ORIGINAL.
   .3 RESTORE TO NEW CONDITION, FINISHES WHICH HAVE BEEN DAMAGED TO EXTENSIVELY TO BE MERELY PRIMED AND TOUCHED UP.
   .4 AT AREAS WHERE CUTTING AND PATCHING HAS TAKEN PLACE, PAINTING OF THESE AREAS SHALL BE UNDERTAKEN BY THE AFFECTED (EXPERT) TRADE AT THE EXPENSE OF THE MECHANICAL CONTRACTOR.
26. IDENTIFICATION
   .1 IDENTIFY AND LABEL EQUIPMENT AND PIPEWORK SERVICES ON COMPLETION OF THE PROJECT.
   .2 DOMESTIC WATER LINES SHALL SHOW SERVICE AND DIRECTION OF FLOW.
   .3 EQUIPMENT, PANELS AND CABINETS, SYSTEM NAMEPLATES SHALL BE 1/8"THICK LAMINATED PLASTIC WITH LETTERS AND NUMBERS MACHINE ENGRAVED INTO CORE.
27. ELECTRICAL WORK
   .1 ALL WIRING AND CONDUIT FOR POWER AND CONTROL SHALL BE BY ELECTRICAL DIVISION, EXCEPT FOR WIRING, CONDUIT AND CONNECTIONS BELOW 50V WHICH ARE RELATED TO AUTOMATIC CONTROL SYSTEMS SHALL BE BY MECHANICAL CONTRACTOR.
   .2 COORDINATE WITH ELECTRICAL CONTRACTOR FOR WRING AND TESTING OF ALL MECHANICAL EQUIPMENT.
28. CLEANING
   .1 UPON COMPLETION AND IN PREPARATION FOR FINAL ACCEPTANCE, CONTRACTOR SHALL REMOVE PROTECTIVE COVERINGS, CLEAN AND REFURBISH ALL EQUIPMENT, FREE ALL OBSTRUCTIONS, REPLACE FILTERS, CLEAN STRAINERS AND LEAVE IN OPERATING CONDITION. ALL SURPLUS AND WASTE MATERIAL SHALL BE PROMPTLY REMOVED FROM THE PREMISES.
29. TRIAL USAGE
   .1 OBTAIN WRITTEN PERMISSION FROM ENGINEER TO START AND TEST PERMANENT EQUIPMENT AND SYSTEMS TO ACCEPTANCE BY OWNER.
   .2 ENGINEER AND OWNER MAY USE EQUIPMENT AND SYSTEMS FOR TEST PURPOSES PRIOR TO ACCEPTANCE. SUPPLY LABOUR, MATERIAL AND INSTRUMENTS REQUIRED FOR TESTING.
30. TESTING, ADJUSTING AND BALANCING (TAB)
   .1 THIS OPERATION SHALL BE UNDERTAKEN BY A CONTRACTOR WHOSE PRINCIPAL BUSINESS IS THAT OF TESTING, ADJUSTING AND BALANCING. THIS CONTRACTOR IS TO CONDUCT ACCEPTANCE TESTS TO DEMONSTRATE THAT THE EQUIPMENT AND SYSTEMS ACTUALLY MEET THE SPECIFIED REQUIREMENTS. TESTS MAY BE CONDUCTED AS SOON AS CONDITIONS PERMIT. SUBMIT TAB REPORT TO ENGINEER FOR REVIEW.
   .2 THE BALANCING CONTRACTOR SHALL BE AFFILIATED WITH AABC OR NEBB.
   .3 THIS CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL "TAB" DEVICES, EQUIPMENT, ACCESSORIES, MEASUREMENT PORT AND FITTINGS. ALL NECESSARY TEST PORTS FOR HYDRONIC SYSTEM SHALL BE PROVIDED TO THE MECHANICAL CONTRACTOR FOR INSTALLATION. OPERATE SYSTEMS FOR LENGTH OF TIME REQUIRED FOR TAB. SUBMIT "TAB" REPORT TO ENGINEER FOR VERIFICATION. "TAB" SHALL BE CARRIED OUT FOR THE FOLLOWING SYSTEMS:
      .1 ALL AIRFLOWS INDICATED.
      .2 HYDRONIC FLOWS FOR NEW HEATING EQUIPMENT.
31. DEMONSTRATION, OPERATION AND MAINTENANCE INSTRUCTIONS
   .1 SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT CLIENT'S REPRESENTATIVE DURING REGULAR WORK HOURS AND PRIOR TO ACCEPTANCE IN OPERATING, CONTROLLING, AND ADJUSTING OF ALL SYSTEMS AND EQUIPMENT.
32. OPERATION AND MAINTENANCE MANUAL
   .1 PROVIDE OPERATION AND MAINTENANCE DATA FOR INCORPORATION INTO MANUAL.
   .2 OPERATION AND MAINTENANCE MANUAL TO BE APPROVED BY AND FINAL COPIES DEPOSITED WITH ENGINEER BEFORE FINAL INSPECTION.
33. RECORD DRAWINGS
   .1 SITE RECORDS:
      .1 ON ONE SET OF AUTOCAD MECHANICAL DRAWINGS, MARK ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR.
      .2 MAKE AVAILABLE FOR REFERENCE PURPOSES AND INSPECTION AT ALL TIMES.
   .2 AS-BUILT DRAWINGS:
      .1 IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 1/2" HIGH AS FOLLOWS: "AS BUILT DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW MECHANICAL SYSTEMS AS INSTALLED" (SIGNATURE OF CONTRACTOR) (DATE).
      .2 SUBMIT TO ENGINEER FOR APPROVAL AND MAKE CORRECTIONS AS DIRECTED.
      .3 SUBMIT COMPLETED REPRODUCIBLE AS-BUILT DRAWINGS WITH OPERATING AND MAINTENANCE MANUALS.
34. GUARANTEE
   .1 PROVIDE A WRITTEN GUARANTEE TO COVER ALL MATERIALS AND INSTALLATION OF THE COMPLETE MECHANICAL SYSTEMS. THIS GUARANTEE SHALL EXTEND FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION.
   .2 SPECIFIC GUARANTEE OF MANUFACTURERS WHOSE WARRANTY NORMALLY EXTENDS OVER LONGER OR SHORTER PERIODS THAN ONE YEAR, SHALL IN NO WAY LIMIT THE GUARANTEE OF THE MECHANICAL WORK.
   .3 ANY DEFECTS OCCURRING WITHIN THE GUARANTEE PERIOD SHALL BE REPAIRED/REPLACED AT NO COST TO THE OWNER.
   .4 WHERE PERMANENT EQUIPMENT IS USED TO PROVIDE TEMPORARY SERVICES, THE WARRANTY SHALL BE EXTENDED SO THAT THE WARRANTY PERIOD DOES NOT COMMENCE UNTIL THE CERTIFICATE OF SUBSTANTIAL COMPLETION IS ISSUED.

PLUMBING GENERAL NOTES FOR INSTALLATION

1. DOMESTIC WATER PIPING WITHIN THE BUILDING:
   .1 ABOVE GROUND SHALL BE SEAMLESS COPPER WATER TUBE, TYPE L WITH SOLDERED JOINTS.
2. GRAVITY SANITARY, STORM AND VENT PIPE AND FITTINGS:
   .1 BELOW GRADE SHALL BE PVC-SDR35 (8 IN. AND LARGER), PVC-SDR28 (6 IN. AND SMALLER), ABS-DWV OR PVC-DWV WITH SOLVENT WELD FITTINGS.
   .2 ABOVE GROUND UP TO 2-1/2" DIA. SHALL BE PVC-DWV ULC APPROVED WITH SOLVENT WELD FITTINGS OR COPPER DWV WITH WROUGHT COPPER FITTINGS.
   .3 ABOVE GROUND FOR 3" AND OVER SHALL BE PVC-DWV, ULC APPROVED WITH SOLVENT WELD FITTINGS OR CAST IRON WITH MECHANICAL JOINTS, NEOPRENE OR BUTYL RUBBER COMPRESSION GASKETS AND STAINLESS STEEL CLAMPS.
   .4 IN A RETURN AIR PLENUM USE FULLY CERTIFIED FIRE-RESISTANT PVC-DWV PIPE SUCH AS IPEX SYSTEM XFR 15-50. COORDINATE WITH ARCHITECTURAL AND HVAC DRAWINGS TO CLARIFY AREAS WITH RETURN AIR PLENUM.
   .5 COMBUSTIBLE PIPE SHALL NOT BE INSTALLED IN A VERTICAL SERVICE SHAFT.
   .6 PUMPED SANITARY AND STORM LINE ABOVE GROUND, SHALL BE PVC SCH 40.
3. WHERE PLASTIC PIPE CROSSES A FIRE SEPARATION IT SHALL BE FITTED WITH APPROVED FIRE STOP DEVICES.
4. INSTALL PLUMBING VENT LINES AS PER OBC PART 7. DISTRIBUTION AND SIZING SHALL BE BY PLUMBING CONTRACTOR.
5. FOR ALL PIPE PENETRATIONS, VOIDS AROUND PIPES SHALL BE SEALED AND CAULKED TO KEEP REQUIRED INTEGRITY.
6. INSTALL PIPE CLEANOUTS FOR SANITARY AND STORM DRAINAGE LINES. FOR LINES UP TO 4" THE MAXIMUM SPACING SHALL BE 15 M (49 FT.) AND FOR 6" AND LARGER SHALL BE 30 M (98 FT.)
7. PIPING INSULATION
   .1 PREFORMED SECTIONAL RIGID FIBREGLASS PIPE INSULATION WITH VAPOUR BARRIER JACKET AND FACING MATERIAL 0-850 DEG.F. SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
      .1 APPLICATION:
         .1 DOMESTIC COLD AND HOT WATER, HOT WATER RECIRCULATION LINE SHALL BE INSULATED THROUGHOUT IN ALL LOCATIONS.
      .2 THICKNESS AND THERMAL CONDUCTIVITY AS PER FOLLOWING: RUNOUTS REFERS TO INDIVIDUAL PLUMBING FIXTURES OR TERMINAL UNITS NOT EXCEEDING 12FT.
         .1 DOMESTIC COLD AND HOT WATER AND HOT WATER RECIRCULATION LINES:
            INSULATION THERMAL CONDUCTIVITY 0.24-0.28 BTU.IN/(H.FT2°F) AT 100 DEG. F MEAN TEMP. RATING. NOMINAL PIPE DIAMETER UP TO 2 IN., INSULATION THICKNESS SHALL BE 1 IN.
            RUNOUTS UP TO 2 IN. NOMINAL PIPE SIZE, THICKNESS SHALL BE 1/2 IN.
   .2 FASTENINGS:
      .1 SELF ADHESIVE ALUMINUM TAPE ULC LABELLED.
      .2 LAP SEAL ADHESIVE, QUICK SETTING FOR JOINTS AND LAP SEALING OF VAPOUR BARRIERS.
      .3 LAGGING ADHESIVE FIRE RETARDANT COATING.
8. ALL INSULATED EXPOSED PLUMBING PIPES RUNNING INSIDE THE BUILDING SHALL BE ENTIRELY INSTALLED WITH WHITE PVC JACKETING, UV-RESISTANT WITH MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
9. WHERE SUPPORTING COPPER PIPE, IT SHALL BE ISOLATED FROM ANY NON-COPPER HANGER WITH ELECTROLYTIC ACTION TAPE OR EQUIVALENT.
10. INSTALL VALVED SUPPLIES AT ALL PLUMBING FIXTURES.
11. INSTALL TRAP SEAL PRIMER FOR FLOOR DRAINS AND HUB DRAINS ON COLD WATER SUPPLY TO NEAREST FREQUENTLY USED PLUMBING FIXTURE OR TO A TRAP SEAL PRIMER. INSTALL SOFT COPPER TUBING OR PEX PIPE TO FLOOR DRAIN AND HUB DRAIN
12. FOR ACCESSIBLE LAVATORY INSULATE SANITARY AND HOT WATER PIPE WITH 1 IN. THICKNESS OF INSULATION. INSULATION IS NOT REQUIRED IF KNEE CONTACT GUARD IS INSTALLED.
13. FOR THE REWORKING OF EXISTING DOMESTIC WATER LINES, NEW DOMESTIC WATER LINES TO TIE-INTO EXISTING, CUTTING BACK AND CAPPING OF THE LINES, THIS WORK SHALL BE CARRIED OUT BY FREEZING EXISTING DOMESTIC WATER LINES.
14. SUMP PUMP SHALL BE INSTALLED WITH A UNION, CHECK VALVE AND A SHUT-OFF VALVE INSTALLED IN THIS SEQUENCE IN THE DIRECTION OF DISCHARGE.

HVAC GENERAL NOTES FOR INSTALLATION

1. UNLESS OTHERWISE NOTED ALL DUCTWORK AND DUCTWORK ACCESSORIES SHALL BE GALVANIZED STEEL LOW PRESSURE. DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE AS PER THE REQUIREMENTS OF SMACNA.
2. ALL DUCTWORK TRANSVERSE JOINTS AND CONNECTIONS SHALL BE SEALED WITH A DUCT SEALANT SUITABLE FOR THE APPLICATION.
   .1 DUCTWORK EXPOSED TO THE EXTERIOR TO THE BUILDING SHALL BE WATERTIGHT AND DUCT SEALANT SHALL BE WATERPROOF.
3. DUCT OPENINGS ON ROOF, SHALL BE INSTALLED WITH BIRDSCREEN.
4. DUCTWORK SHALL BE INSULATED AS FOLLOWS. ALL INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
   .1 EXHAUST DUCT 8 FT. FROM WALL/ROOF, SHALL BE INSULATED WITH 2 IN. THICKNESS OF FIBREGLASS FLEXIBLE DUCT INSULATION WITH REINFORCED FOIL/KRAFT VAPOUR RETARDER FACING, DENSITY 0.75 PCF AND NOMINAL R-VALUE OF 6.7 H.FT2.°F/BTU.
   .2 FASTENINGS:
      .1 SELF ADHESIVE ALUMINUM TAPE ULC LABELLED.
      .2 LAP SEAL ADHESIVE, QUICK SETTING FOR JOINTS AND LAP SEALING OF VAPOUR BARRIERS.
      .3 CONTACT ADHESIVE QUICK SETTING.
5. WHERE DUCTS CROSS A FIRE SEPARATION, INSTALL FIRE DAMPERS TO SUIT APPLICATION. FIRE DAMPERS SHALL BE OF THE DYNAMIC CLOSURE TYPE WITH BLADE OUT OF AIRSTREAM, ULC LISTED AND FUSIBLE LINK WITH TEMPERATURE RATING TO SUIT APPLICATION. SHALL BE INSTALLED AS PER NFPA 90A WITH BREAKAWAY JOINTS, RETAINING ANGLES AND ACCESS DOOR ADJACENT TO FIRE DAMPER.
6. FOR DUCT PENETRATIONS AT WALL, VOIDS AROUND DUCT SHALL BE SEALED AND CAULKED TO MAINTAIN REQUIRED INTEGRITY.
7. FLEXIBLE CONNECTIONS SHALL BE GALVANIZED SHEET METAL FRAME 24 GAUGE WITH FABRIC CLENCHED BY MEANS OF DOUBLE LOCKED SEAMS. DIMENSIONS 3 IN. METAL, 3 IN. FABRIC, 3 IN. METAL. NEOPRENE DOUBLE COATED GLASS FABRIC, NON-COMBUSTIBLE, SELF-EXTINGUISHING, AIRTIGHT AND WATERPROOF, TEMPERATURE RATED AT -40 DEG.F TO PLUS 200 DEG. F AND DENSITY OF 39 OZ./YD2.
   .1 INSTALL AT INLET/OUTLET OF IN-LINE FANS.

PLUMBING FIXTURES AND EQUIPMENT SCHEDULE

WC1 WATER CLOSET BARRIER-FREE, FLOOR MOUNTED, FLUSH TANK TYPE, LOW CONSUMPTION 1.3 IMP. G. (6.0L), ELONGATED BOWL WHITE FINISH, AMERICAN STANDARD 215AA 054 CADET PRO RIGHT HEIGHT, LINED TANK. OPEN FRONT TOILET SEAT LESS COVER, CENTOCO 500CC WHITE FINISH. COMPLETE WITH FLEX SUPPLY WITH SCREWDRIVER LOCKSHIELD STRUCTURE. SEAT SHALL BE LOCATED NOT LESS THAN 430 MM AND NOT MORE THAN 485MM ABOVE THE FLOOR.

V1 VANITY BASIN, OVAL SHAPE, BARRIER-FREE, VITREOUS CHINA, AMERICAN STANDARD 0419 111EC CADET, CENTRE HOLE ONLY, WHITE FINISH. FAUCET SET, DELTA 22C651. OFFSET P.O. PLUG, CHROME PLATED P-TRAP AND FLEX SUPPLIES WITH HANDLE LOCKSHIELD STRUCTURE. MOUNTING HEIGHT AND CLEARANCES BELOW THE BASIN SHALL COMPLY AS PER O.B.C. 3.8.3.11. INSTALL WITH MIXING VALVE SYMMONS 7-210-CK.

P1 ELEVATOR SUMP PUMP, MYERS ME3F, 55 US.GPM. AT 12 FT. HEAD, WITH WIDE ANGLE PIGGY-BACK FLOAT SWITCH, FIBERGLASS BASIN 24"DIA.x30" DEPTH, BASIN COVER, CHECK VALVE AND GATE VALVE AND HIGH WATER ALARM BUZZER 115V/1/60.
ELECTRICAL DATA: 115V/1/60, 1/3, HP MOTOR, 11.5 A.

PD1 ELEVATOR PIT DRAIN, WATTS BV-600, COMPLETE WITH REMOVABLE BACKWATER VALVE AND SEAT.

HVAC EQUIPMENT SCHEDULE

EF1 EXHAUST FAN, CEILING MOUNTED, BROAN L150E, 103 CFM AT 0.25" S.P., 0.7 SONES. SHALL BE COMPLETE WITH METAL GRILLE AND MOTION SENSOR.
ELECTRICAL DATA: 120V/1/60, 0.3A, 803 RPM. ACTIVATED BY MOTION SENSOR.

TF1 TRANSFER FAN, CEILING MOUNTED, BROAN L200E, 214 CFM AT 0.25" S.P., 1.7 SONES. SHALL BE COMPLETE WITH METAL GRILLE AND REVERSE ACTING THERMOSTAT.
ELECTRICAL DATA: 120V/1/60, 0.5A, 1031 RPM. ACTIVATED BY REVERSE ACTING THERMOSTAT 120V/1/60.
TRANSFER FAN IS NORMALLY "OFF". UPON A RISE IN ROOM TEMPERATURE, THE FAN SHALL BE ENERGIZED.

DIFFUSERS, GRILLES AND REGISTERS BY E.H. PRICE UNLESS OTHERWISE INDICATED. COLOUR TO BE FINALIZED ON SITE WITH ARCHITECT.
REF. SR1: SUPPLY GRILLE DOUBLE DEFLECTION, 520/F/L/A
REF. DG1: DOOR GRILLE, FIRE RATED TYPE, NAYLOR IND. MOD. 61DGD-FR

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH
THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

NO.	DATE	REVISION
1	MAR.19/26	ISSUED FOR PERMIT

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR DURING THE COURSE OF WORK.

CoPa ENGINEERING LTD.
29 ROLLING ACRES DR.
KITCHENER, ONTARIO
N2A 3W5
MOB: (519) 496-2672

LICENSED PROFESSIONAL ENGINEER
C.T. PASHARTIS
90327800
MAR.19/26
PROVINCE OF ONTARIO

PROJECT
RENOVATION TO
HWDSB NORWOOD PARK
ELEMENTARY SCHOOL
165 TERRACE DR.
HAMILTON ONTARIO

DRAWING
MECHANICAL NOTES
AND SCHEDULES

DRAWN BY: C. P.	SCALE: N.T.S.
CHECKED BY: C. PASHARTIS	DATE: MARCH 19, 2026
PROJECT NO. 19CP053	DRAWING NO. M3-1

ELECTRICAL SPECIFICATION

GENERAL CONDITIONS

1. THE CANADIAN STANDARD FORM OF CONSTRUCTION CONTRACT AND GENERAL CONDITIONS GOVERNING THE SAME CCDC PARTS 1 TO 12 INCLUSIVE ARE HEREBY MADE PART OF THIS SPECIFICATION.
2. ALL WORK SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE 2021 ONTARIO ELECTRICAL SAFETY CODE, ELECTRICAL SAFETY AUTHORITY (ESA), AND THE LOCAL BUILDING INSPECTION DEPARTMENT REQUIREMENTS.
3. ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ESA INSPECTION FEES.
4. THIS CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE AS REQUIRED.
5. ALL WORKMANSHIP SHALL BE EXECUTED TO A STANDARD DETERMINED BY GOOD PRACTICE. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE EQUIPMENT & INSTALLATION FOR ONE YEAR FROM SUBSTANTIAL COMPLETION.
6. THE ELECTRICAL CONTRACTOR SHALL SUBMIT ONE SET OF ELECTRONIC PDF SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS TO INCLUDE ALL ELECTRICAL EQUIPMENT, DEVICES & ULC LISTED FIRE STOPPING DETAILS. MATERIALS **SHALL NOT BE ORDERED** UNTIL REVIEW HAS BEEN COMPLETED. APPROVAL IS FOR GENERAL DESIGN COMPLIANCE ONLY.
7. THE OWNERS RESERVE THE RIGHT TO ALTER THE LOCATION OF ANY ITEM UP TO TEN FEET (3m) WITHOUT INCURRING EXTRA COSTS, PROVIDED THE REQUEST IS MADE PRIOR TO INSTALLATION.
8. ALL MATERIAL AND EQUIPMENT USED ON THIS PROJECT SHALL BE C.S.A. APPROVED, ESA FIELD EVALUATED, OR MUST BEAR AN ESA RECOGNIZED CERTIFICATION MARK.
9. CUTTING AND PATCHING FOR ELECTRICAL WORK SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS AND THEN MAKE NECESSARY ALLOWANCES IN THEIR TENDER PRICE FOR REMOVAL, RELOCATION, REROUTING AND/OR RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND WIRING, AS MAY BE NECESSARY FOR THE EXECUTION AND COMPLETION OF THIS PROJECT. EXTRA CHARGES FOR PREMIUM TIME LABOUR SHALL BE INCLUDED IN THE TENDER PRICE, ALLOWING FOR AFTER HOURS, WEEKEND AND HOLIDAY LABOUR REQUIREMENTS.
11. THE DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES OR CONTRADICTIONS SHALL BE BROUGHT TO THE CONSULTANT'S ATTENTION.
12. THE ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT **IS TO BE CONFIRMED** WITH MECHANICAL DRAWINGS & SCHEDULES PRIOR TO RELATED WORK.
13. ALL TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION SHALL BE BY THE GENERAL CONTRACTOR AFTER AGREEMENT WITH THE ELECTRICAL CONTRACTOR. POWER SHALL BE PROVIDED FROM PANELS WITH REQUIRED SUPPLY AND CAPACITY.
14. TENDER SHALL BE BASED UPON THE SPECIFIED EQUIPMENT AND MATERIAL. REQUESTS FOR CONSIDERATION OF ALTERNATES TO THE SPECIFIED MATERIALS SHALL BE MADE TO THE CONSULTANT ONE WEEK PRIOR TO TENDER CLOSING AND SHALL INCLUDE MANUFACTURER, MODEL, AND COST MODIFICATION. COSTS OF ANY CHANGE REQUIRED TO OTHER TRADES AS A RESULT OF USING ALTERNATE EQUIPMENT ARE TO BE INCURRED BY THE ELECTRICAL CONTRACTOR.
15. ALL CLAIMS FOR EXTRA WORK NOT COVERED IN THE CONTRACT TO BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIALS AND LABOUR.
16. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO BE TAKEN FROM THE ARCHITECTURAL DRAWINGS AND CONFIRMED ON SITE.
17. PROVIDE FIRE STOPPING PROTECTION FOR OPENINGS THROUGH ALL FIRE RATED ASSEMBLIES. ULC LISTED ASSEMBLY NUMBERS ARE TO BE USED.
18. LOW VOLTAGE CABLES (IE: NETWORK, SECURITY, CONTROL, ETC...) ROUTED WITHIN PLENUM SPACES SHALL BE FT6, CMP OR PLENUM RATED WHEN ROUTING THROUGH MECHANICAL CEILING PLENUMS.

MOUNTING HEIGHTS

1. DEVICE MOUNTING HEIGHT TO CENTRE OF DEVICE IS AS FOLLOWS:
   - LIGHT SWITCHES 1090mm (or 1200mm IN SERVICE ROOMS)
   - RECEPTACLE 400mm
   - DATA OUTLETS 400mm
   - POWER DOOR OPERATORS 1000mm
   - FIRE ALARM HORN/STROBE 2300mm
   - FIRE ALARM MANUAL PULL STATION 1150mm
   - FIRE ALARM END OF LINE RESISTORS 1700mm
   - OTHER BUILDING CONTROLS 1000mm

ELECTRICAL EQUIPMENT, DEVICES & MATERIAL

1. ALL EQUIPMENT, DEVICES & MATERIAL TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS.
2. ALL BRANCH CIRCUIT WIRING SHALL BE RUN IN ELECTRICAL METALLIC TUBING (E.M.T.) OR FLEXIBLE ARMOURED CABLE (AC90) RECESSED IN WALLS OR CEILINGS EXCEPT WHERE SPECIFICALLY NOTED ON THE PLANS. ALL WIRING TO BE COPPER AND MINIMUM #12 AWG UNLESS STATED OTHERWISE. ALL SURFACE WIRING SHALL BE T90/RW90 COPPER IN EMT CONDUIT SURFACE WIREMOLD PAINTED TO MATCH WALL WHERE WIRING AND CONDUIT CANNOT BE RECESSED.
3. ALL DEVICES MOUNTED ON CORE SLAB SHALL BE FED WITH WIRING CONCEALED WITHIN THE CORES. UNFINISHED AREAS SUCH AS UTILITY OR STORAGE ROOMS MAY BE SURFACE EMT.
4. ALL BELOW GRADE WIRING SHALL BE RW90 COPPER IN RIGID PVC CONDUIT UNLESS OTHERWISE NOTED.
5. ALL ELECTRICAL DEVICES AND LIGHTING CONTROLS, TO HAVE **TYPED CIRCUIT LABEL** ON DEVICE COVER PLATE. LABEL TO BE BLACK LETTERING ON CLEAR BACKING.
6. THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE ELECTRIC SERVICE COMPLETE WITH FEEDERS AND BRANCH CIRCUITS ALL AS SHOWN ON THE PLANS. CONTRACTOR TO COORDINATE WITH UTILITY FOR NEW INCOMING ELECTRICAL SERVICE.
7. ELECTRICAL PANELS TO HAVE BOLT ON CIRCUIT BREAKERS. ALL PANELS TO HAVE HINGED LOCKABLE PANEL COVERS. PANELS SHALL HAVE TYPED DIRECTORIES.
8. ALL NON-RESIDENTIAL EQUIPMENT (PANELS, SWITCHBOARDS, SPLITTERS, TRANSFORMERS, ETC...) TO HAVE LAMACOID LABEL INDICATING: EQUIPMENT ID, VOLTAGE, PHASE/WIRE, AND "SUPPLIED FROM: EQUIPMENT ID".
9. ALL JUNCTION AND PULL BOXES ARE TO BE ACCESSIBLE AND BE PROVIDED WITH SCREWED PLATES COLOUR MATCHED TO ADJACENT WALL OR CEILING FINISHES.
10. PULL BOXES SHALL BE PROVIDED EVERY 30m AND EVERY THREE 90° BENDS.
11. ALL WIRING SHALL BE PARALLEL WITH ARCHITECTURAL LINES AND DESIGN.
12. PROVIDE A NYLON PULL STRING IN ALL EMPTY CONDUIT.
13. ALL NEW SWITCH AND RECEPTACLE DEVICES & PLATES SHALL BE WHITE NYLON. ALL DEVICES TO BE COMMERCIAL GRADE DECORA SERIES OR EQUAL UNLESS OTHERWISE STATED. DO NOT MOUNT WALL OUTLETS BACK TO BACK IN WALLS, STAGGER TO PREVENT SOUND TRANSFER.
14. WIRING TO FIXTURES IN SUSPENDED CEILINGS IS TO CONSIST OF AC90 'DROPS' WITH A MAXIMUM LENGTH OF 4.5m (15 FT) AND T90 WIRING IN EMT CONDUIT BACK TO SOURCE PANEL.
15. ALL CONDUITS TO BE SECURELY FASTENED WITH APPROVED CLIPS AND SCREWS. NAILS OR TIE WIRES ARE NOT ACCEPTABLE.
16. ALL ELECTRICAL EQUIPMENT, DEVICES, AND WIRING ARE TO BE INDEPENDENTLY SUPPORTED. KEEP CLEAR OF MECHANICAL PIPING WHERE POSSIBLE.
17. WIRING FOR MECHANICAL EQUIPMENT SHALL BE AS DETAILED ON THE PLANS.
18. PROVIDE 21mm (3/4") CONDUIT RACEWAY BETWEEN MECHANICAL EQUIPMENT AND CONTROLS AS PER MECHANICAL AND ELECTRICAL PLANS.
19. PROVIDE EQUIPOTENTIAL BONDING OF NON-ELECTRICAL EQUIPMENT AS PER OESC 10-700, AND WIRE MESH/REBAR SUPPORTING ELECTRICAL RADIANT HEATING CABLES. REFER TO MECHANICAL AND ARCHITECTURAL PLANS.

COMMUNICATION SYSTEM

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE EMPTY CONDUIT SYSTEM FOR COMMUNICATION OUTLETS AS SHOWN ON THE PLANS.
2. PROVIDE CONDUIT AS PER LOW-VOLTAGE DEVICE SCHEDULE. CONDUIT TO BE METALLIC CONDUIT & FIRE STOPPPED WHEN PENETRATING FIRE SEPARATIONS.
3. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUITS.

LIGHTING

1. SUPPLY AND INSTALL LIGHTING FIXTURES AND DEVICES AS NOTED ON THE PLANS AS PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. INSTALL ALL FIXTURES PARALLEL WITH BUILDING LINES UNLESS INDICATED OTHERWISE.
3. FOR RECESSED FIXTURES (LED PUCK LIGHTS EXEMPTED) WITHIN SUSPENDED CEILINGS, PROVIDE EITHER:
   A. SAFETY 'JACK CHAIN' TO BUILDING STRUCTURE, OR
   B. MANUFACTURER APPROVED FASTENING DEVICES OR 'EARTHQUAKE CLIPS' FASTENED TO T-BAR.
4. INSTALL A SEPARATE NEUTRAL CONDUCTOR FOR EACH LIGHTING BRANCH CIRCUIT.
5. LIGHTING CONTROL WIRING NOT RUN WITHIN CONDUIT SHALL BE PLENUM RATED (FT6).

FIRE ALARM

GENERAL:
1. FIRE ALARM WIRING SHALL BE MINIMUM #18 AWG 300V FAS CABLE (WIRING TO BE SIZED BY FIRE ALARM VENDOR FOR VOLTAGE DROP) RUN AS FOLLOWS:
   A. EXPOSED WALL: SURFACE WALL WIRING SHALL BE FAS WIRING IN SURFACE METAL WIREMOLD PAINTED TO MATCH WALL WHERE WIRING AND CONDUIT CANNOT BE RECESSED.
   B. ACCESSIBLE CEILING SPACES, CONCEALED SPACES, FINAL DEVICE CONNECTIONS: ARMOURED FAS CABLE
   C. EXPOSED CEILING, RISER CLOSETS, SERVICE ROOMS: FAS WIRING IN EMT CONDUIT.
   D. BELOW GRADE: FAS WIRING IN CONCRETE ENCASED PVC CONDUIT.
2. COMMISSIONING OF LIFE SAFETY SYSTEMS **SHALL BE INCLUDED** IN ELECTRICAL CONTRACTORS PRICE.
3. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524:2019, "INSTALLATION OF FIRE ALARM SYSTEMS".
4. FIRE ALARM SYSTEM SHALL BE VERIFIED IN CONFORMANCE WITH CAN/ULC-S537:2019, "VERIFICATION OF FIRE ALARM SYSTEMS" BY A THIRD PARTY (ARMS LENGTH).
5. ANNUNCIATOR PANEL TO BE UPDATED WITH NEW ZONES LABELS. PASSIVE GRAPHIC BESIDE ANNUNCIATOR PANEL TO BE REPLACED WITH NEW PASSIVE GRAPHIC SHOWING NEW/UPDATED ZONES.
6. IF A FIRE ALARM OR VOICE COMMUNICATION SYSTEM OR ANY PART THEREOF IS SHUT DOWN:
   A. THE **FIRE DEPARTMENT AND BUILDING OCCUPANTS** SHALL BE NOTIFIED, AND
   B. IF APPLICABLE THE SUPERVISORY STAFF SHALL BE NOTIFIED, AND
   C. POST NOTICES ON ALL FLOORS BY ELEVATORS AND AT ENTRANCES, STATING THE SCOPE OF WORK AND WHEN IT IS EXPECTED TO BE COMPLETED.
   D. HAVE STAFF OR OTHER RELIABLE PERSON(S) PATROL THE AFFECTED AREA(S) AT LEAST ONCE EVERY HOUR. REFER TO CAN/ULC-S537:2019(18) APPENDIX B - ALTERNATE MEASURES FOR OCCUPANT FIRE SAFETY.
7. WHERE EXISTING, UNLESS NOTED OTHERWISE, FIRE ALARM TO BE KEPT. THE ELECTRICAL CONTRACTOR TO INCLUDE ALL COSTS ASSOCIATED WITH RELOCATION OF ANY DEVICES OR EQUIPMENT.
8. NEW LIFE SAFETY DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. WHERE EXISTING ZONE CIRCUITS ARE USED TO FEED NEW DEVICES, CONTRACTOR TO CONFIRM EXISTING INITIATING AND ANNUNCIATING ZONE WIRING IS COMPLETE WITH A BOND WIRE PRIOR TO RELATED WORK.
9. FIRE ALARM PANEL SHALL PROVIDE EMERGENCY BATTERY BACKUP TO SUPPLY SUPERVISORY POWER FOR NOT LESS THAN 24H AND IMMEDIATELY FOLLOWING FULL LOAD FOR NOT LESS THAN: 30MIN, 5MIN (NO ANNUNCIATOR)
10. CIRCUIT BREAKER SUPPLYING THE FIRE ALARM SYSTEM SHALL BE CLEARLY LABELLED, COLOURED RED, AND BE LOCKABLE IN THE ON POSITION.
11. DWELLING UNIT PANEL SIGNAL SILENCE:
   A. CANNOT OCCUR WITHIN THE FIRST 60s OF OPERATION OR WITHIN THE ZONE OF INITIATION
   B. A SUBSEQUENT ALARM ELSEWHERE IN THE BUILDING WILL REACTUATE THE SILENCED AUDIBLE SIGNAL DEVICES WITHIN DWELLING UNITS,
   C. AFTER A PERIOD OF NOT MORE THAN 10MIN, THE SILENCED AUDIBLE SIGNAL DEVICES WILL BE RESTORED TO CONTINUOUS AUDIBLE SIGNAL IF THE ALARM IS NOT ACKNOWLEDGED.
12. PROVIDE MONITORING NOTIFICATION SIGNALS TO A CENTRAL STATION CONFORMING TO CAN/ULC-S561-19, "INSTALLATION AND SERVICES FOR FIRE SIGNAL RECEIVING CENTRES AND SYSTEMS" OR TO THE MUNICIPAL FIRE ALARM SYSTEM.
    OR
    PROVIDE 'LEGIBLE NOTICE' THAT IS NOT EASILY REMOVED, AFFIXED TO THE WALL NEAR EACH MANUAL PULL STATION, "IN EVENT OF FIRE DIAL 911".

EXISTING CONDITIONS

1. ELECTRICAL WORK AFFECTING OTHER TENANTS SHALL BE PERFORMED AFTER BUSINESS HOURS (EVENINGS AND WEEKENDS). COORDINATE WITH LANDLORD.
2. SERVICE AND DISTRIBUTION SYSTEM POWER INTERRUPTIONS SHALL BE KEPT TO A MINIMUM. POWER INTERRUPTIONS MUST BE COORDINATED WITH THE OWNER AND ALL OTHER TRADES BY THIS CONTRACTOR. WRITTEN APPROVAL FOR ELECTRICAL INTERRUPTIONS MUST BE RECEIVED FROM THE OWNER INDICATING THE DATE, TIME AND ESTIMATED DURATION OF THE INTERRUPTION. APPLICATION FOR APPROVAL OF THE POWER INTERRUPTIONS MUST BE SUBMITTED TO THE OWNERS AND/OR ARCHITECTS AT LEAST TWO WEEKS PRIOR TO THE REQUESTED SHUTDOWN DATE.
3. EXISTING ELECTRICAL EQUIPMENT, REMOVED AND INDICATED FOR REUSE, SHALL BE CLEANED BEFORE RE-INSTALLATION.
4. WIRING LOCATED IN AREAS BEING ALTERED OR DEMOLISHED, BUT FEEDING OUTLETS OR EQUIPMENT REQUIRED TO REMAIN IN SERVICE, MUST BE REWORKED IN ORDER TO MAINTAIN THE CONTINUITY OF THE EXISTING WIRING.
5. REPAIRS TO EXISTING WALLS, FLOORS, AND CEILINGS ARE TO BE PERFORMED BY THE GENERAL CONTRACTOR TO MEET THE EXISTING CONDITIONS.
6. SEQUENCE OF REMOVAL AND RELOCATION OF EXISTING EQUIPMENT AND WIRING SHALL BE COORDINATED WITH THE OTHER TRADES AND SHALL CONFORM TO THE REQUIREMENTS AND CONDITIONS OUTLINED.
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO EXISTING WIRING AND EQUIPMENT THROUGHOUT THE PROJECT, PARTICULARLY WHERE WIRING AND ELECTRICAL EQUIPMENT HAVE BECOME EXPOSED TO MECHANICAL DAMAGE OR MOISTURE IN THE COURSE OF ALTERATIONS OR NEW CONSTRUCTION.
8. NEW OUTLETS AND EQUIPMENT SHOWN IN THE SAME LOCATION AS EXISTING OUTLETS MAY BE FED THROUGH THE EXISTING CONDUITS/WIRING, PROVIDED THAT THEY ARE IN GOOD CONDITION AND ARE ACCEPTABLE TO THE ESA INSPECTION DEPARTMENT.

DEMOLITION

1. ALL EXISTING ELECTRICAL EQUIPMENT, WIRING, AND ROUGH-IN DEVICES ARE TO BE REMOVED COMPLETE TO SUIT THE DEMOLITION AND RENOVATION OF THE SPACES. ALL EXISTING ELECTRICAL EQUIPMENT, NOT BEING REUSED, SHALL BECOME THE PROPERTY OF THE OWNER. ELECTRICAL CONTRACTOR SHALL PROPERLY DISPOSE OF EQUIPMENT NOT DESIRED BY OWNER.
2. ALL DEVICES & EQUIPMENT MADE OBSOLETE SHALL BE REMOVED FROM THE CONSTRUCTION SITE.

GENERAL CLOSE OUT PROCEDURES

1. **DOCUMENTS:** ELECTRICAL CONTRACTOR TO SUBMIT:
   - FIRE ALARM SYSTEM ULC-S537:2019 VERIFICATION REPORT (INCLUDING DEVICE & AUDIBILITY REPORT).
   - ESA CERTIFICATE OF INSPECTIONS;
   - SIGNED COPY OF EMERGENCY LIGHTING TEST REPORT. EMERGENCY LIGHTING TEST REPORT TO INDICATE TOTAL RUNTIME OF EMERGENCY LIGHTING ONCE NORMAL POWER IS LOST FOR EACH BATTERY SYSTEM. (MINIMUM 30MIN AS PER OBC:3.2.7.4(1b))
2. **TRAINING:** ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING SESSIONS TO THE OWNER ON ALL MAJOR ELECTRICAL SYSTEMS.
3. **COMMISSIONING:** ALL MAJOR SYSTEMS ARE TO BE COMMISSIONED BY THE MANUFACTURERS REPRESENTATIVE INCLUDING FIRE ALARM, LIGHTING CONTROL SYSTEMS.
4. **RECORD DRAWINGS:** ELECTRICAL CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ACTUAL INSTALLATION TO OWNERS WITHIN 30 DAYS OF SYSTEM ACCEPTANCE. DRAWINGS ARE TO INCLUDE SINGLE LINE DIAGRAM OF DISTRIBUTION SYSTEM; FLOOR PLANS SHOWING THE LOCATION OF DISTRIBUTION EQUIPMENT AND THE AREAS SERVED BY THAT EQUIPMENT; CHANGES TO LIGHTING, LIGHTING CONTROLS & CIRCUITING.

INSPECTIONS BY CONSULTANT

1. CONTRACTOR SHALL NOTIFY CONSULTANTS WHEN INSPECTIONS ARE REQUIRED. ALLOW FOR MINIMUM OF THREE BUSINESS DAYS OF NOTICE PRIOR TO INSPECTION.
2. INSPECTIONS ARE REQUIRED AT THE FOLLOWING MILESTONES:
   A. DEVICE ROUGH-IN (PRIOR TO DRYWALL)
   B. FINAL INSPECTION

All Sheet Notes

#	NOTE
L1	REWORK NEW LIGHTING CONTROL TO EXISTING LIGHTING CIRCUIT.
P1	REWORK EXISTING POWER/DATA USING EXISTING CIRCUIT IN NEW LOCATION.

Electrical Sheet List

Sheet #	Sheet Name
E1	Electrical Legend & Specification
E2	Electrical Plan
E3	Electrical Details
Total: 3	

ELECTRICAL LEGEND

SCHEDULE (x = TYPE)	EXISTING	DEMO	NEW	DESCRIPTION
LIGHTING DEVICE SCHEDULES				LIGHT SWITCH
				DIMMER SWITCH
				LIGHTING MOTION SENSOR
LIGHTING FIXTURE SCHEDULES				EXIT SIGN, CEILING MOUNT, HATCH = SIGN, ARROW = DIRECTION
				EXIT SIGN, WALL MOUNT, HATCH = SIGN, ARROW=DIRECTION
				EXIT / EMERG COMBO, WALL MOUNT, HATCH=SIGN, ARROW=DIRECTION
				EMERGENCY LIGHT, BATTERY UNIT
				EMERGENCY LIGHT, REMOTE HEAD
				LIGHTING FIXTURE
				WALL MOUNTED LIGHTING FIXTURE
				LIGHTING FIXTURE
ELECTRICAL EQUIPMENT SCHEDULES				ELECTRICAL POWER PANEL
				ELECTRICAL DISCONNECT (FUSED OR UNFUSED)
				ELECTRICAL EQUIPMENT - MISCELLANEOUS
ELECTRICAL DEVICE SCHEDULES				HARDWIRE CONNECTION
				DUPLEX RECEPTACLE 15A
				DUPLEX RECEPTACLE 15A - COUNTER (100mm ABOVE BACKSPLASH)
				DUPLEX RECEPTACLE 20A
				DUPLEX RECEPTACLE 20A - COUNTER (100mm ABOVE BACKSPLASH)
				SPECIAL RECEPTACLE
LOW VOLTAGE DEVICE SCHEDULES				DATA OUTLET
				PUSHBUTTON (BOX & 16mm EMT TO ACCESSIBLE CEILING SPACE)
				UNIVERSAL WASHROOM: ASSISTANCE REQUESTED AUDIBLE VISUAL SIGNAL
				COMMUNICATION BACKBOARD - PLYWOOD GOOD ONE SIDE
	WAP	WAP	WAP	WIFI ACCESS POINT
				SOUND SPEAKER
FIRE ALARM DEVICE SCHEDULES	SA	SA	SA	SMOKE ALARM
	CO	CO	CO	CO2 ALARM - 120V C/W BATTERY BACKUP
	SM	SM	SM	SMOKE/CO2 ALARM - 120V C/W BATTERY BACKUP, STROBE VISUAL
				FIRE ALARM MANUAL PULL STATION
				FIRE ALARM HORN
			zz	FIRE ALARM HORN STROBE (zz = CANDELA, 15cd DEFAULT)
			zz	FIRE ALARM STROBE (zz = CANDELA, 15cd DEFAULT)
	SD	SD	SD	FIRE ALARM SMOKE DETECTOR
	HD	HD	HD	FIRE ALARM HEAT DETECTOR
	SD R	SD R	SD R	FIRE ALARM SMOKE DETECTOR c/w FORM 'C' RELAY SUB-BASE
	HD R	HD R	HD R	FIRE ALARM HEAT DETECTOR c/w FORM 'C' RELAY SUB-BASE
			or	POLYCARBONATE COVER WITH ALARM OVER MANUAL PULL STATION
				FIRE ALARM END OF LINE RESISTOR
				FIRE ALARM ADDRESSABLE RELAY CONTACT

NEW DEVICE/EQUIPMENT
TO BE REMOVED
EXISTING TO REMAIN

TYPICAL SYMBOL LINETYPE FOR DEVICES or EQUIPMENT

1 New, Removed, Existing

2 Tags - Mechanical Equipment

RS-2 — EQUIPMENT TYPE ID (AS PER MECHANICAL EQUIPMENT SCHEDULE)
A-4/6/8 — EQUIPMENT CIRCUIT
@1800mm AFF — EQUIPMENT SPECIFIC DETAILS.
EQUIPMENT SYMBOL (VARIES)

3 Tags - Low Voltage Devices

27S — DEVICE TYPE ID (AS PER LOW VOLTAGE DEVICE SCHEDULE)
TV@1800mm — DEVICE SPECIFIC MOUNTING INSTRUCTIONS
DEVICE SYMBOL (VARIES)

DEVICES WITH UNIQUE SYMBOL & TYPE MAY NOT HAVE A TYPE ID. DEVICES MOUNTED BESIDE COUNTER HEIGHT ELECTRICAL DEVICES ARE TO ALSO BE MOUNTED AT COUNTER HEIGHT.

4 Tags - Electrical Devices

RS-2 — DEVICE TYPE ID (AS PER ELECTRICAL DEVICE SCHEDULE)
A-4 — DEVICE CIRCUIT
TV@1800mm — DEVICE SPECIFIC DETAILS
DEVICE SYMBOL (VARIES)

5 Tags - Lighting Devices

V1 — DEVICE TYPE ID (AS PER LIGHTING CONTROL DEVICE SCHEDULE)
(Z1.1) — LIGHTING CONTROL ZONE ID
0-10V — 0-10V WIRING REQUIRED BETWEEN CONTROL DEVICE AND ALL LIGHTING FIXTURES WITHIN THE SAME CONTROL ZONE.
A-4 — CIRCUIT # USED FOR ZONE
DEVICE SYMBOL (VARIES)

DEVICE/EQUIPMENT OPTIONS & TAGS

?	SHEET NOTE LABEL - REFER TO SHEET NOTES
CL	CEILING MOUNT
FL	FLOOR MOUNT
GFI	DEVICE WIRED TO LOAD SIDE OF GFCI RECEPTACLE/BREAKER
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE IN SAME LOCATION.
REL	RELOCATED DEVICE/EQUIPMENT. REWORK WIRING AS NEEDED. IF APPLICABLE PROVIDE NEW DEVICE BOX & CONNECTORS.

THIS DRAWING IS AN INSTRUMENT OF SERVICE & IS THE PROPERTY OF ROOT3 ENGINEERING AND CANNOT BE MODIFIED AND/OR REPRODUCED WITHOUT THE PERMISSION OF ROOT3 ENGINEERING LTD.

THE CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER, BEFORE PROCEEDING WITH THE WORK.

DRAWINGS ARE NOT TO BE SCALED.

LICENSED PROFESSIONAL ENGINEER
S. HOLDITCH
100108001
Mar 26, 2026
PROVINCE OF ONTARIO

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

NO.	DESCRIPTION	DATE
1	Issued For Permit	Mar 26, 2026

REVISION SCHEDULE

ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
HWDSB Norwood Park Elevator
165 Terrace Dr,
Hamilton City, ON

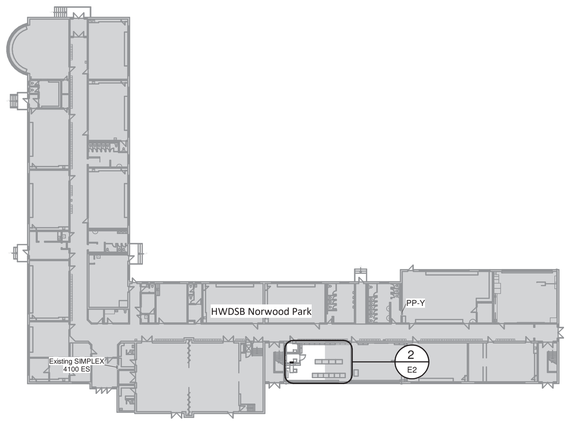
DRAWING TITLE
Electrical Legend & Specification

SCALE	1 : 1
SHEET SIZE	24"x36"
PROJECT NUMBER	25150
DRAWING NUMBER	E1

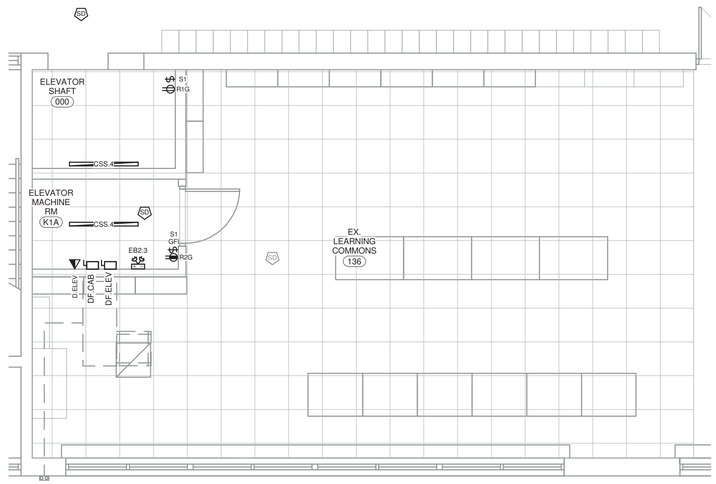
THIS DRAWING IS AN INSTRUMENT OF SERVICE & IS THE PROPERTY OF ROOT3 ENGINEERING AND CANNOT BE MODIFIED AND/OR REPRODUCED WITHOUT THE PERMISSION OF ROOT3 ENGINEERING LTD.

THE CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER, BEFORE PROCEEDING WITH THE WORK.

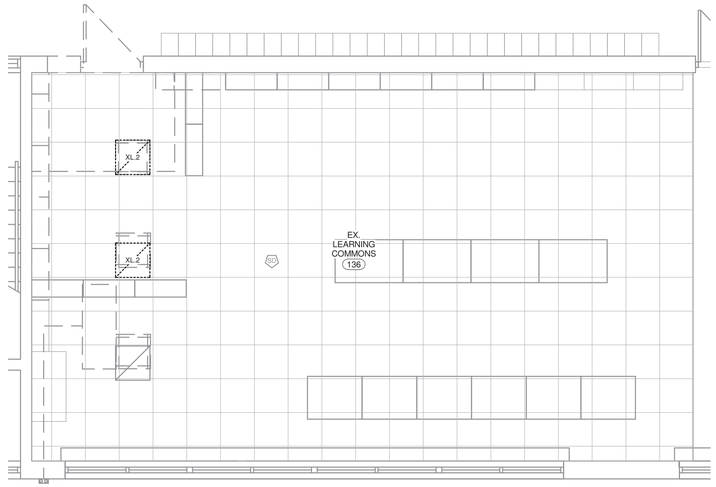
DRAWINGS ARE NOT TO BE SCALED.



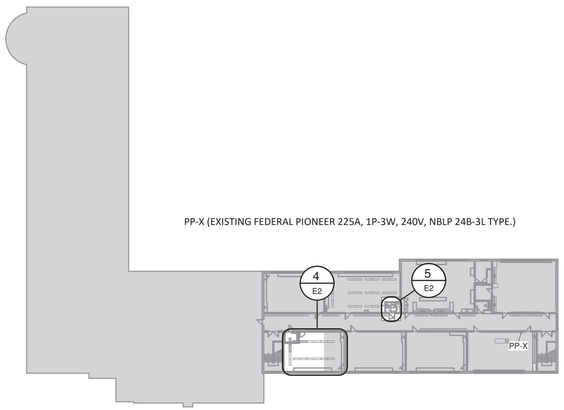
1 Keymap First Floor
1 : 500



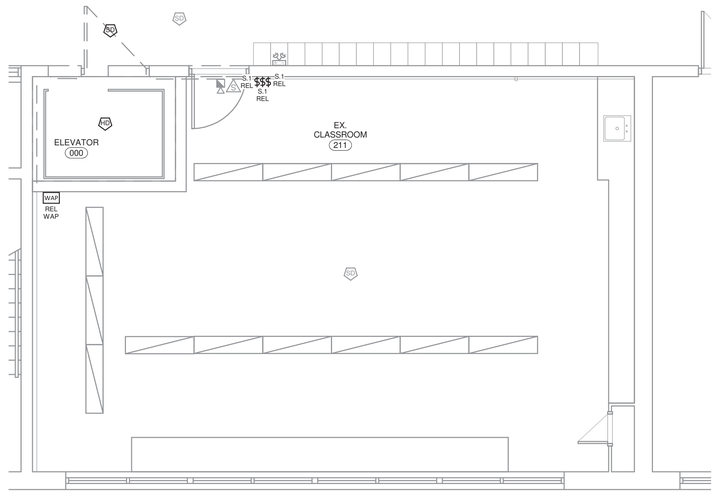
2 Proposed - Ex. Learning Commons 136 - Electrical Plan
1 : 50



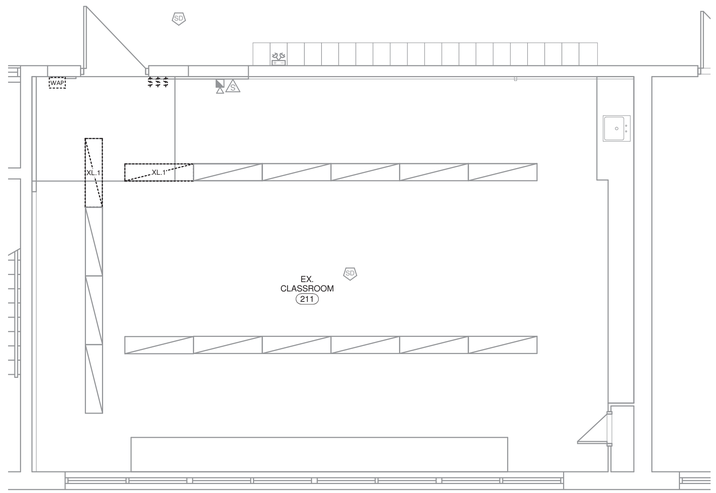
8 Demo - Ex. Learning Commons 136 - Electrical Plan
1 : 50



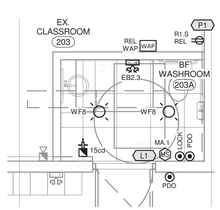
3 Keymap Second Floor
1 : 500



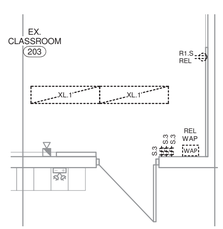
4 Proposed - Ex. Classroom 211 - Electrical Plan
1 : 50



7 Demo - Ex. Classroom 211 - Electrical Plan
1 : 50



5 Proposed - BF Washroom 203A - Electrical Plan
1 : 50



6 Demo - Ex. Classroom 203 - Electrical Plan
1 : 50

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

LICENSED PROFESSIONAL ENGINEER
S. HOLDITCH
100108001
Mar 26, 2026
PROVINCE OF ONTARIO

NO.	DESCRIPTION	DATE
1	Issued For Permit	Mar 26, 2026

REVISION SCHEDULE

ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
HWDSB Norwood Park Elevator
165 Terrace Dr,
Hamilton City, ON

DRAWING TITLE
Electrical Plan

SCALE
As indicated

SHEET SIZE
24"x36"

PROJECT NUMBER
25150

DRAWING NUMBER
E2

1 - Total Removed - Low Voltage Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: None

QTY	Type	Conduit	Description	Phase Added	Phase Removed
2	WAP	16mm EMT	Existing Wifi Access Point.	EXISTING	Tender

Total: 2

2 - Total Removed - Electrical Equipment Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: None

Qty	Equip ID	Description	Type Comments	Enclosure	Mounting	Phase Added	Phase Removed

3 - Total Removed - Electrical Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: None

Qty	Type ID	Relocated	Description	Type Comments	Phase Added	Phase Removed
1	R1.S	Yes	15A Duplex Receptacle	120V 5-15R; Surface mount device box.	EXISTING	Tender

Total: 1

4 - Total Removed - Fire Alarm Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: None

QTY	Model	Description	Type Comments	Phase Added	Phase Removed

5 - Total Removed - Lighting Control Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: None

Qty	Relocated	Type	Mfg.	Model	Description	Type Comments	Phase Added	Phase Removed
3	Yes	S.1	TBD	TBD	Switch, 1-Pole Architectural Decora Style	120V	EXISTING	Tender
3	No	S.3	TBD	TBD	Switch, 3-Way Architectural Decora Style	120V	EXISTING	Tender

Total: 6

6 - Total Removed - Lighting Fixture Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: None

Qty	Image	Type	Mfg.	Model#	Mounting	Height	Description	Remarks	Phase Added	Phase Removed
4		XL.1	TBD	TBD			TBD	Existing Suspended Lighting fixture. Two 2T8 flourescent.,	EXISTING	Tender
2		XL.2	TBD	TBD			TBD	Existing 2x2 LED Flat Panel	EXISTING	Tender

Total: 6

1 - Total New/Relocated - Low Voltage Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: Show Previous + New

QTY	Relocated	Type	Conduit	Description	Phase Added
1	No	D.ELEV	21mm EMT	Std. recessed device Box & conduit to accessible ceiling; Conduit Bushing; Provide conduit path to accessible ceiling; provide conduit bushing & pull string	Tender
1	No	LOCK	16mm EMT	Universal Washroom Lock Button. Device box & conduit to Door controller.	Tender
2	No	PDO	16mm EMT	Power Door Operator; Device box & conduit to Door controller.	Tender
2	Yes	WAP	16mm EMT	Existing Wifi Access Point.	Tender

Total: 6

2 - Total New/Relocated - Electrical Equipment Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: Show Previous + New

Qty	Equip ID	Description	Type Comments	Enclosure	Mounting	Phase Added
1	DF.CAB	Elevator Main Fused Disconnect	30A 15AF 120V; Type 1 Enclosure; Provide permanent lamacoid sign identifying the location of the supply side overcurrent protection device (as per OESC: 38-051)	Type 1	Surface	Tender
1	DF.ELEV	Elevator Main Fused Disconnect	30A 600V; c/w 20A Type D time delay fuses; Type 1 Enclosure; c/w Auxiliary contact that shall be positively opened mechanically, and the opening shall not be solely dependent on springs; Provide permanent lamacoid sign identifying the location of the supply side overcurrent protection device (as per OESC: 38-051)	Type 1	Surface	Tender

Total: 2

3 - Total New/Relocated - Electrical Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: Show Previous + New

Qty	Type ID	Relocated	Description	Type Comments	Phase Added
1	R1.S	Yes	15A Duplex Receptacle	120V 5-15R; Surface mount device box.	Tender
1	R1G	No	15A Duplex Receptacle	120V 5-15R; Class A - GFI Receptacle	Tender
1	R2G	No	20A Duplex Receptacle	120V 5-20R; Class A - GFI Receptacle	Tender

Total: 3

4 - Total New/Relocated - Fire Alarm Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: Show Previous + New

QTY	Model	Description	Type Comments	Phase Added
1	15cd	ANNUNCIATING	Strobe, 15cd	Tender
1	RoR	Fire Alarm Initiating	Heat Detector, 57C, Rate of Rise	Tender
3		Fire Alarm Initiating	Smoke Detector	Tender

Total: 5

5 - Total New/Relocated - Lighting Control Device Schedule

CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: Show Previous + New

Qty	Relocated	Type	Mfg.	Model	Description	Type Comments	Phase Added
1	No	MA.1	Sensor Switch	WSX WH	PIR Wall Switch Occ Sensor, Auto On/Off	120V; Auto-On; White	Tender
2	No	S1	TBD	TBD	Switch, 1-Pole Architectural Decora Style	120V	Tender
3	Yes	S.1	TBD	TBD	Switch, 1-Pole Architectural Decora Style	120V	Tender

Total: 6

6 - Total New/Relocated - Lighting Fixture Schedule

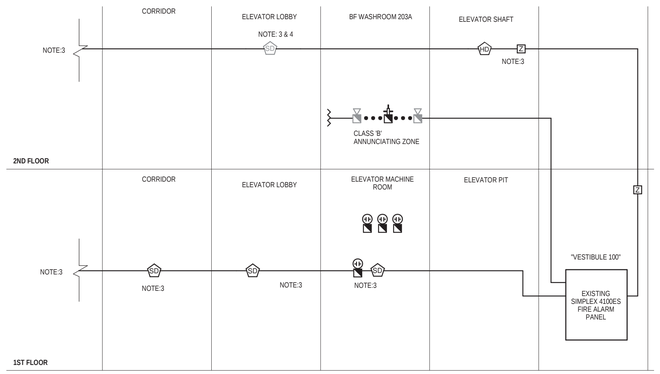
CURRENT SCHEDULE PHASE: Tender SHOWING PHASE ITEMS: Show Previous + New

Qty	Image	Type	Mfg.	Model#	Mounting	Height	Description	Remarks	Phase Added
2		CSS.4	Lithonia	CSS L48 7000LM MVOLT 40K 80CRI	Surface	Ceiling	LED Strip Light	55W 7387Lumens 4' 120-277V 4000K 80CRI; Class 2 0-10V Dimmable	Tender
2		EB2.3	Stanpro	SLA.06.036.2N.3LI.WH	Wall	2300mm	Steel Battery Unit, Emergency Light	6V, 36W for 30min, 2-3W LJ Par18 LED Heads (2x313lm), White, Don't exceed battery capacity with additional remote lighting heads, Connect to Line Side of Local Lighting Circuit that also serves emergency lighting.	Tender
2		WF8	Lithonia	WF8-SWWS-89CRI-MW-19 W	Recessed	T-bar	Ultra-Thin Wafer Switchable Downlight	8" Wafer-Thin LED Downlight, round, Switchable White (2700K/3000K/3500K/4000K/5000K) Colour temperature, 90+CRI, Matte White, 18 Watts, Select Colour temperature to.	Tender

Total: 6

FIRE ALARM NOTES:

1. CONFIRM REQUIREMENTS WITH ELEVATOR PROVIDER PRIOR TO RELATED WORK.:
   - A. PROVIDE ONE ADDRESSABLE RELAY FOR 1ST FLOOR ELEVATOR LOBBY SMOKE DETECTOR (ALTERNATE RECALL TO 2ND FLOOR).
   - B. PROVIDE ONE ADDRESSABLE RELAY FOR 2ND FLOOR ELEVATOR LOBBY SMOKE DETECTOR (RECALL TO 1ST FLOOR)
   - C. PROVIDE ONE ADDRESSABLE RELAY FOR ELEVATOR TOP OF SHAFT HEAT DETECTOR (RECALL TO 1ST FLOOR)
   - D. PROVIDE ONE ADDRESSABLE RELAY FOR ELEVATOR MACHINE ROOM (RECALL TO 1ST FLOOR).
2. UPDATE FIRE ALARM ANNUNCIATOR TO INDICATE NEW ELEVATOR SHAFT FIRE DETECTOR. "TOP OF ELEVATOR SHAFT RM:000 HEAT DETECTOR".
3. EXISTING ADDRESABLE LOOP
4. EXISTING SMOKE DETECTOR IS TO BE PROGRAMMED TO OPERATE WITH ELEVATOR RECALL.



1 Fire Alarm Elevator Phase 1 Emergency Recall

THIS DRAWING IS AN INSTRUMENT OF SERVICE & IS THE PROPERTY OF ROOT3 ENGINEERING AND CANNOT BE MODIFIED AND/OR REPRODUCED WITHOUT THE PERMISSION OF ROOT3 ENGINEERING LTD.

THE CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER, BEFORE PROCEEDING WITH THE WORK.

DRAWINGS ARE NOT TO BE SCALED.

CITY OF HAMILTON
Building Division
Permit No. 26-101123-00
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
THE OWNER AND/OR CONTACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW
These drawings and/or specifications have been reviewed by
Jun. 04, 2026
FOR CHIEF BUILDING OFFICIAL DATE

LICENSED PROFESSIONAL ENGINEER
S. HOLDITCH
100108001
Mar 26, 2026
PROVINCE OF ONTARIO

NO.	DESCRIPTION	DATE
1	Issued For Permit	Mar 26, 2026

REVISION SCHEDULE

ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
HWDSB Norwood Park Elevator
165 Terrace Dr,
Hamilton City, ON

DRAWING TITLE
Electrical Details

SCALE 1 : 1
SHEET SIZE 24"x36"
PROJECT NUMBER 25150
DRAWING NUMBER **E3**