



CITY OF TORONTO MULTIPLEX
FOURPLEX NARROW

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FOURPLEX NARROW



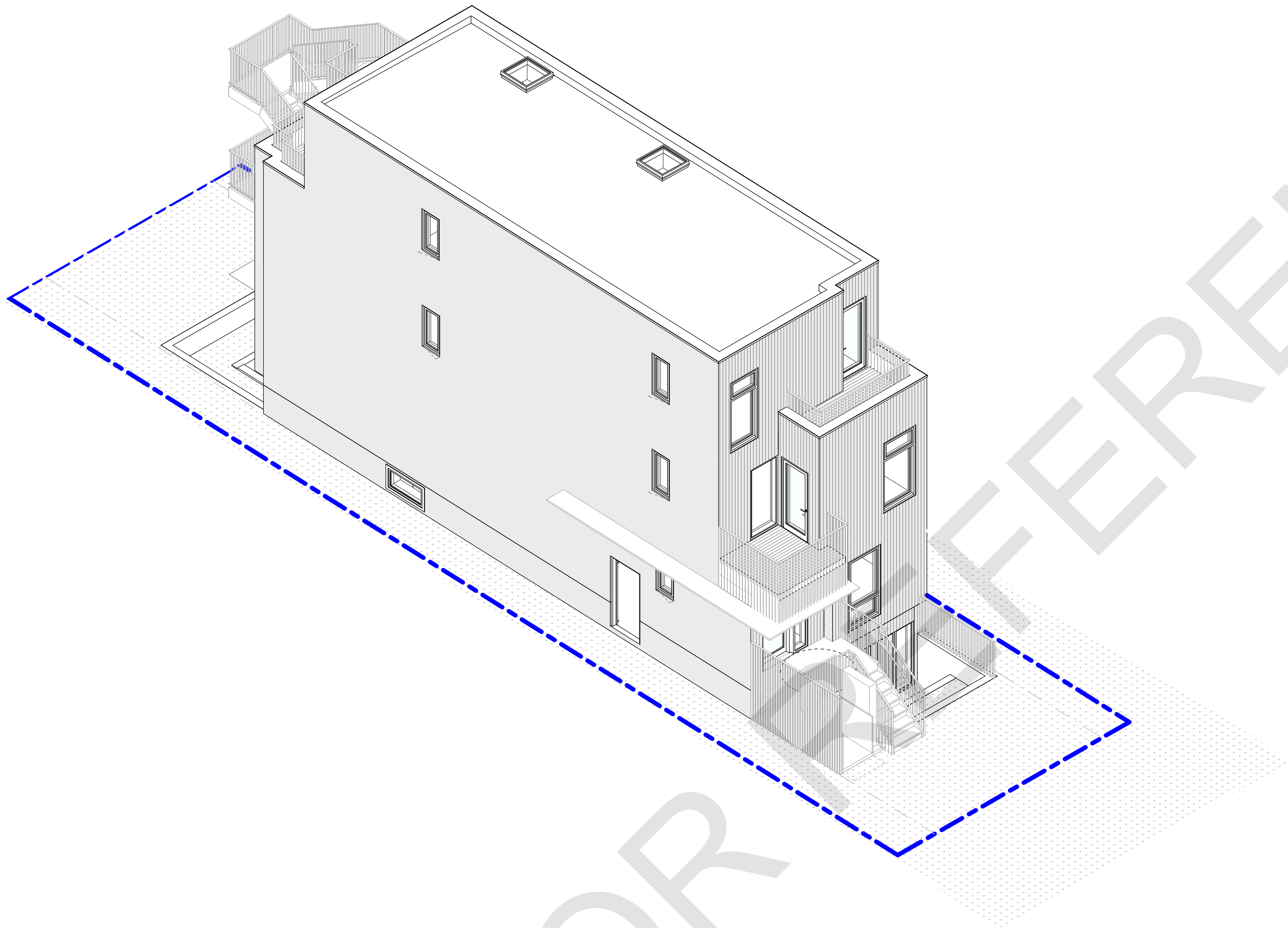
PROFESSIONAL SEAL:

GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

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1. ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
2. THE QDP MUST REVIEW AND UPDATE THE DESIGN ELEMENTS COLOURED IN BLUE TO CONFIRM SITE-SPECIFIC CONDITIONS AND VERIFY ASSUMPTIONS. THE QDP MUST ENSURE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS. IF ANY MODIFICATIONS TO ANY PORTION OF THE DESIGN OTHER THAN THE BLUE-HIGHLIGHTED ELEMENTS ARE MADE, THE PLANS WILL NO LONGER QUALIFY AS PRE-APPROVED, AND APPLICANTS WILL BE REQUIRED TO SUBMIT A BUILDING PERMIT APPLICATION THROUGH THE STANDARD REVIEW PROCESS.
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5. CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.



SHEET LIST - FOURPLEX NARROW

000	COVER
A000	COVER SHEET
A001	ASSEMBLIES SCHEDULE
A002	DOOR AND WINDOW SCHEDULE
A003	INTERIOR TYPICAL DETAILS
A004	EXTERIOR TYPICAL DETAILS
A005	EXTERIOR TYPICAL DETAILS
A006	EXTERIOR TYPICAL DETAILS
A010	EBF DIAGRAMS & CODE MATRIX
A011	SITE PLAN
A100	BASEMENT FLOOR PLAN
A101	MAIN FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	THIRD FLOOR PLAN
A104	ROOF PLAN
A200	ELEVATIONS
A201	ELEVATIONS
A202	ELEVATIONS
A300	SECTIONS
A301	SECTION
A302	SECTIONS

ABBREVIATIONS

ABBREVIATIONS MAY OR MAY NOT INCLUDE PERIOD PUNCTUATION. ABBREVIATIONS APPLY TO ARCHITECTURAL DOCUMENTS ONLY.

AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECTURAL
B/O	BOTTOM OF
C/C	CENTRE TO CENTRE
CL	CENTER LINE
CIV	CIVIL
CW	COMES WITH
CSA	CANADIAN STANDARDS ASSOCIATION
CW	COMES WITH
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EBF	EXPOSED BUILDING FACE
EST	ESTABLISHED
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
FRM/G	FRAMING
GEOTECH	GEOTECHNICAL
GWB	GYPSUM WALL BOARD
GRD	GRADE
F/F	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FLR	FLOOR
FRR	FIRE RESISTANCE RATING
FD	FLOOR DRAIN
HR	HOUR
LP	LOW POINT
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NON-COMBUSTIBLE
NTS	NOT TO SCALE
OBC	ONTARIO BUILDING CODE
O/C	ON CENTRE
PARA	PARAPET
PRE-FIN	PREFINISHED
QDP	QUALIFIED DESIGN PROFESSIONAL
RM	ROOM
R/O	ROUGH OPENING
RWIL	RAIN WATER LEADER
SCH	SCHEDULE
SF	SQUARE FEET
SIM	SIMILAR
SM	SQUARE METER
SPEC	SPECIFICATION
STC	SOUND TRANSMISSION CLASS
STRUC	STRUCTURE
TBD	TO BE DETERMINED
T/O	TOP OF
T&G	TONGUE & GROOVE
TYP	TYPICAL
U/S	UNDERSIDE
W/C	WASHROOM
W/	WITH

ANNOTATION LEGEND

ASSEMBLY TAGS (REFER TO ASSEMBLIES SCHEDULES)

W#	EXTERIOR WALL TAG
P#	INTERIOR PARTITION TAG
R#	ROOF TAG
F#	FLOOR TAG

TAGS

DW#	DOOR TAG REFER TO DOOR SCHEDULE
WWS# ###/### AFF	WINDOW TAG REFER TO WINDOW SCHEDULE
XYZ-#	MATERIAL TAG
#	KEYNOTES REFER TO SHEET SPECIFIC KEYNOTE SCHEDULE

DRAWING TAGS

1 A101 SIM	DETAIL NUMBER DRAWING SHEET NUMBER
1 A101 SIM	BUILDING SECTION NUMBER DRAWING SHEET NUMBER
1 A101 1	EXTERIOR ELEVATION NUMBER DRAWING SHEET NUMBER
0	GRID BUBBLE
SPOT ELEVATION (ABOVE FINISH FLOOR)	
ROOM	ROOM TAG
C	CENTRELINE

PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

COVER SHEET

PROJECT NO: 241058

SCALE: 1 : 50

SHEET NO:

A000

INSULATION LEGEND

	SEMI-RIGID MINERAL WOOL
	POLYISOCYANURATE RIGID INSULATION
	EXTRUDED POLYSTYRENE
	STUD CAVITY IN-FILL INSULATION
	SPRAY FOAM

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1 INTERIOR DETAIL - FIRE SEPARATION STAIR ON FLOOR

A003 1 : 10

2 INTERIOR DETAIL - FIRE SEPARATION, PARTITION & BULKHEAD TO FLOOR

A003 1 : 10

3 INTERIOR DETAIL - FIRE SEPARATION, STAIR LANDING, ADJACENT FLOOR

A003 1 : 10

4 INTERIOR DETAIL - FIRE RATED STRUCTURAL POST, PARTITION WALL

A003 1 : 10

5 SECTION DETAIL - RADON MITIGATION OPTIONS

A003 1 : 10

NO.	DATE	DESCRIPTION
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PROJECT:
City of Toronto - Multiplex

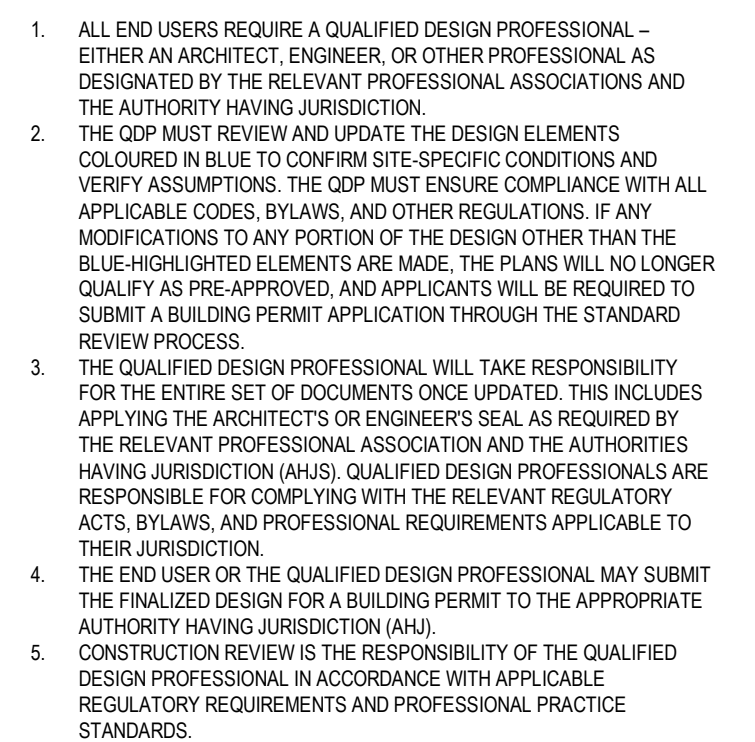
FOURPLEX NARROW

SHEET TITLE:
INTERIOR TYPICAL
DETAILS

PROJECT NO: 241058
SCALE: 1 : 10

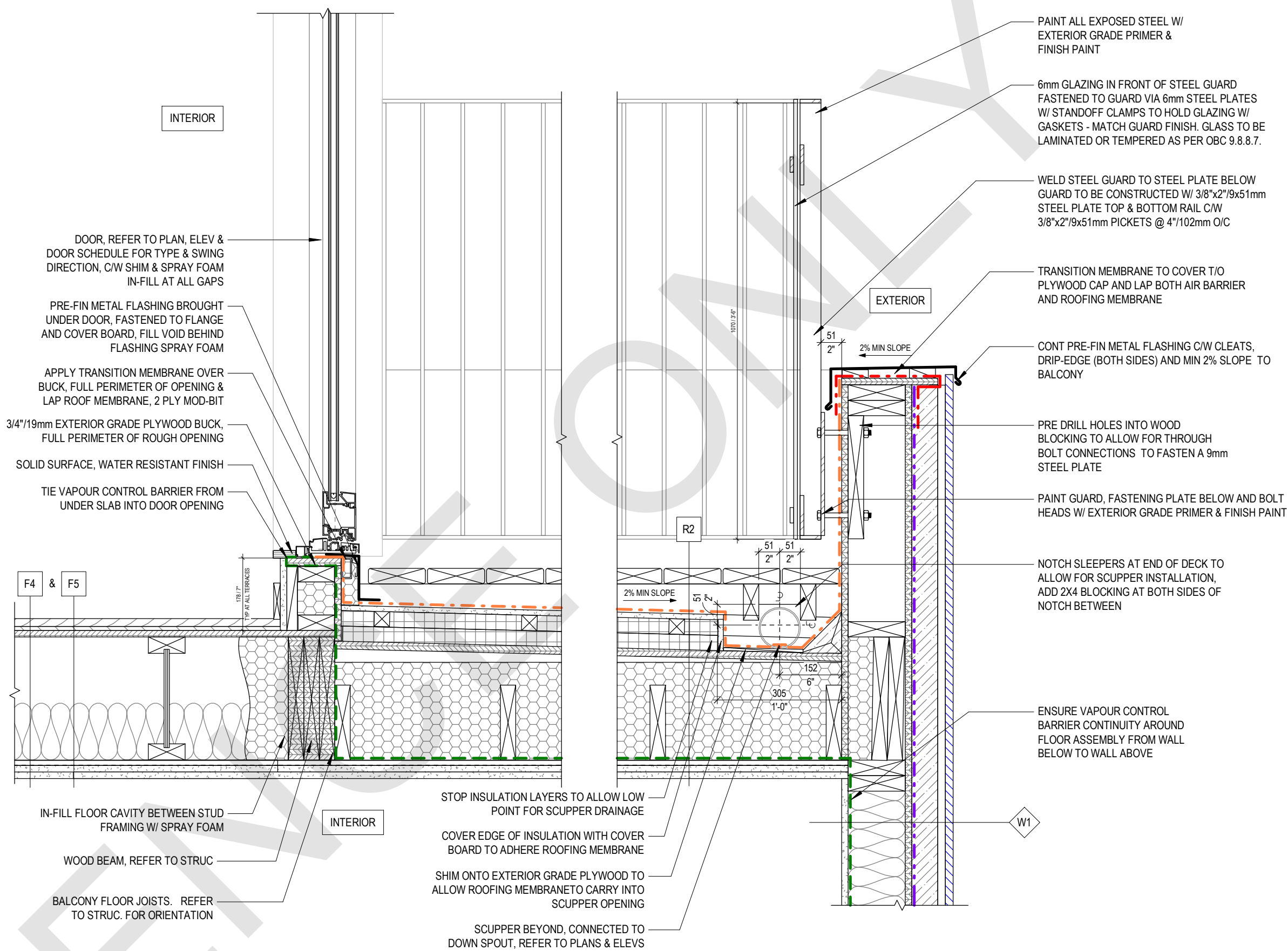
SHEET NO:

A003



A004

6 SECTION DETAIL - ENTRY AT GRADE
A004 1 : 10



2 SECTION DETAIL - ROOF DECK
A005 1 : 10



3 SECTION DETAIL- PORCH
A005 1 : 10

A005

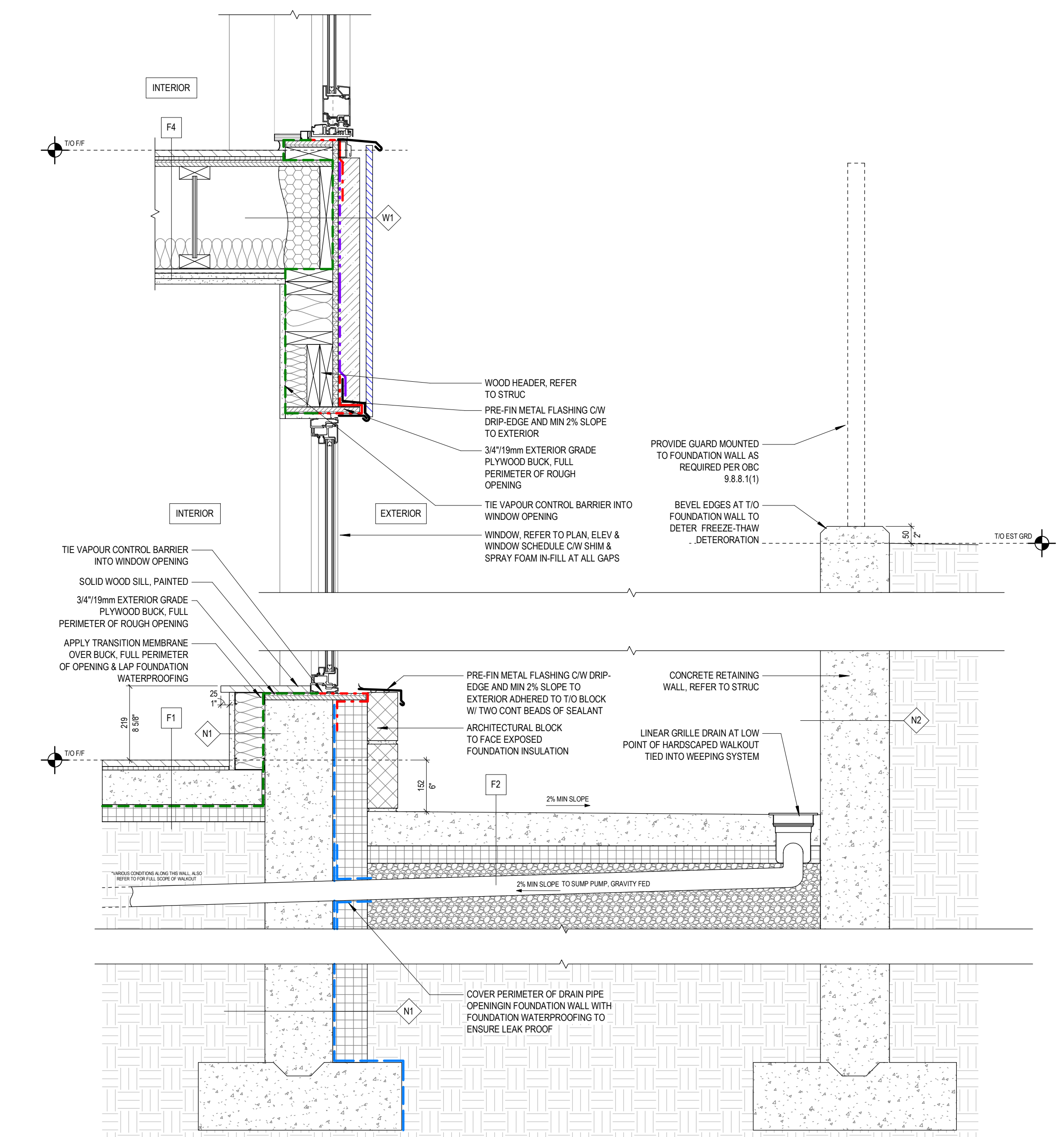
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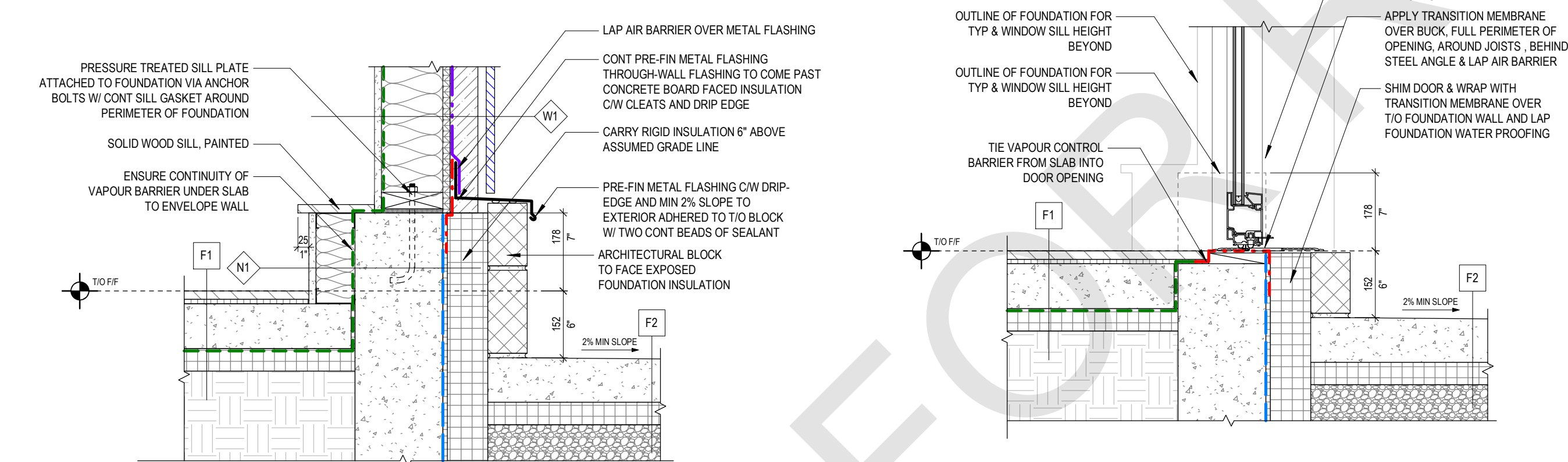
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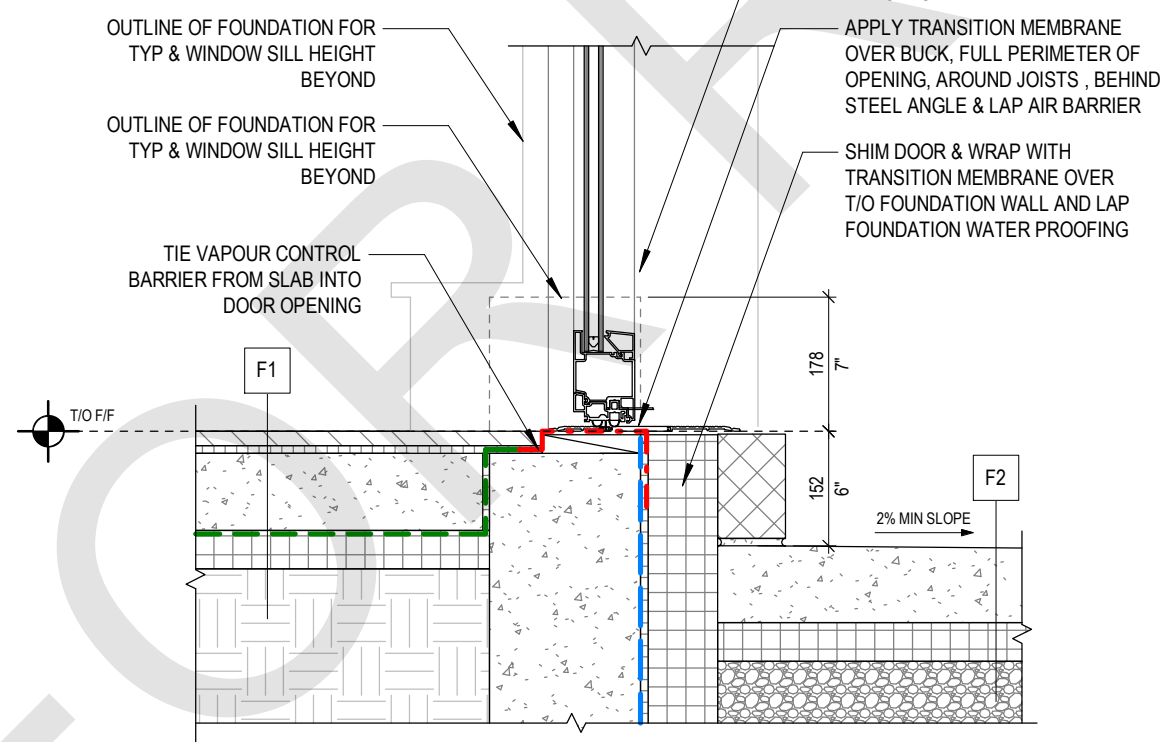
1 SECTION DETAIL - BASEMENT WALKOUT AT WINDOW W/ FLOOR ABOVE

1 : 10



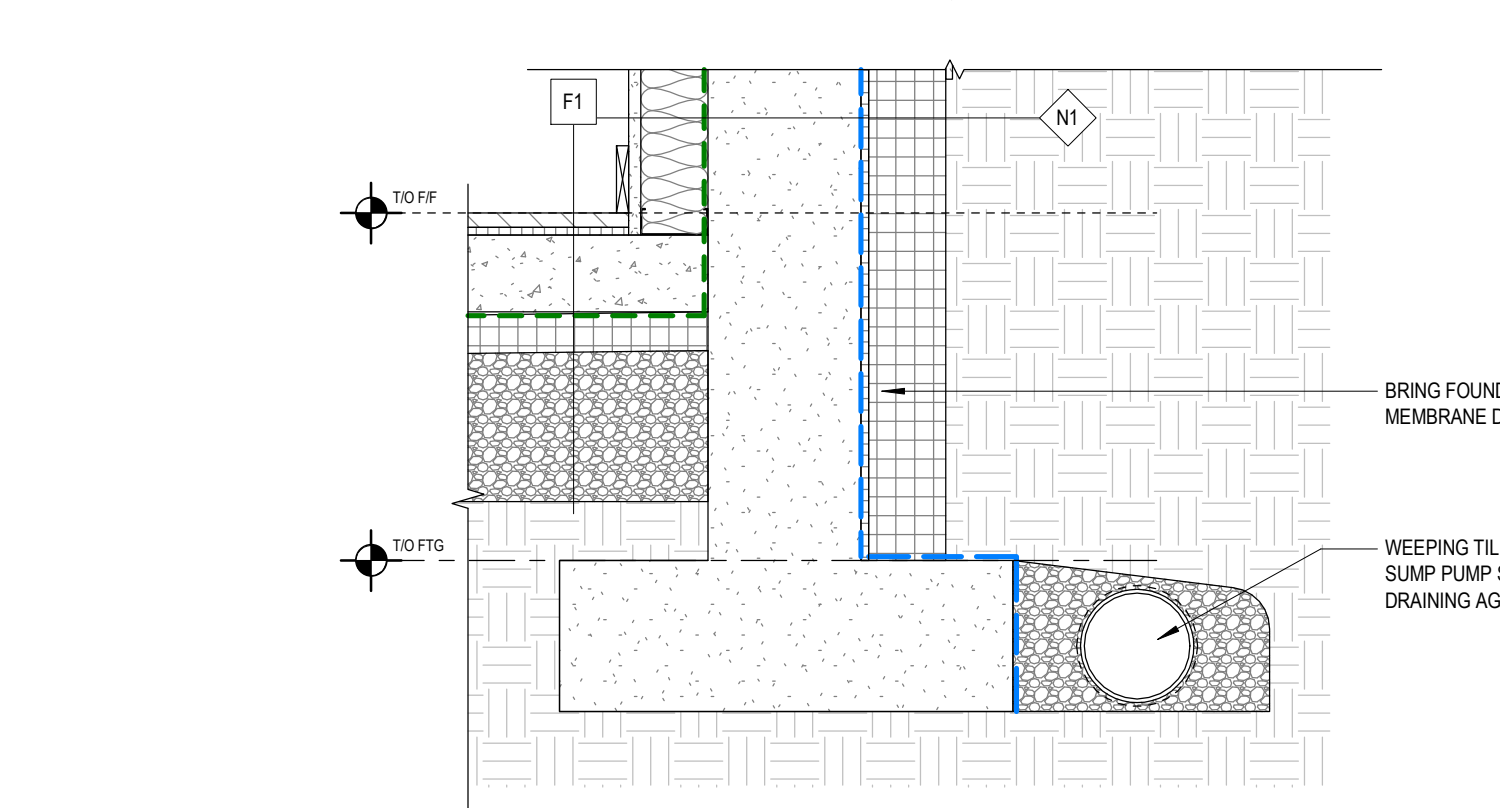
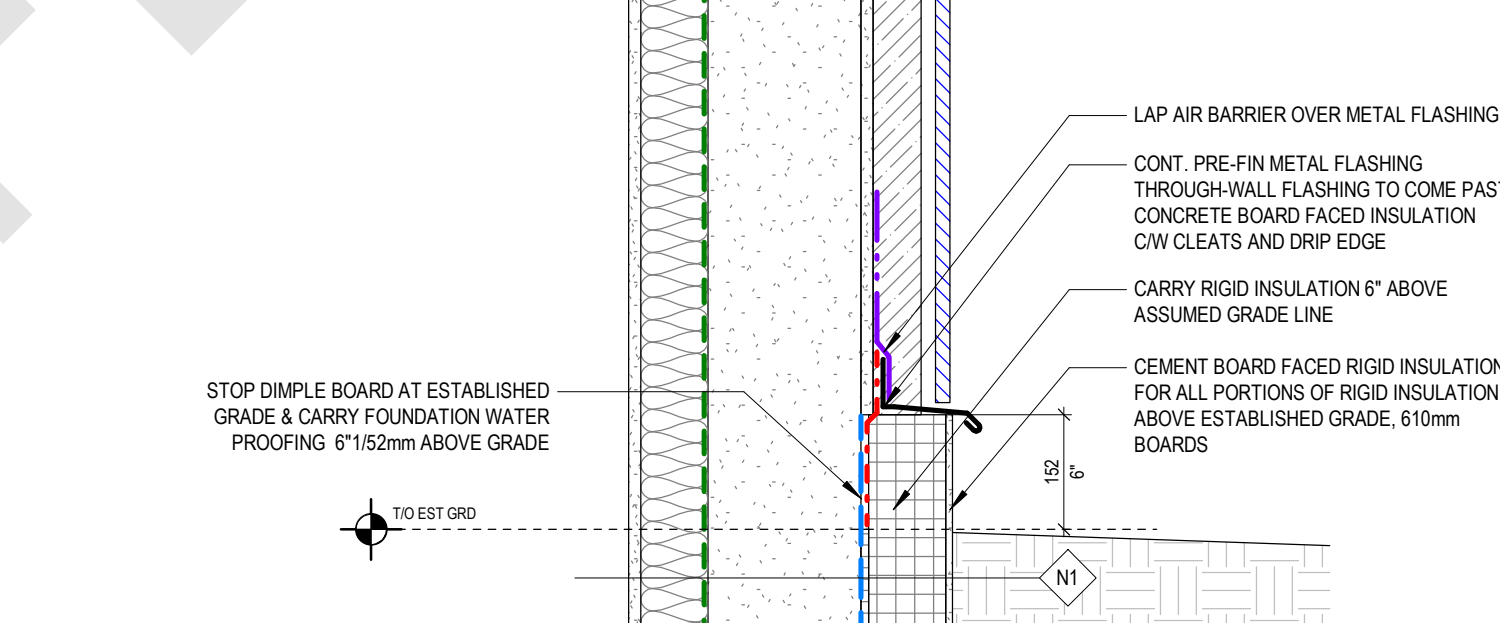
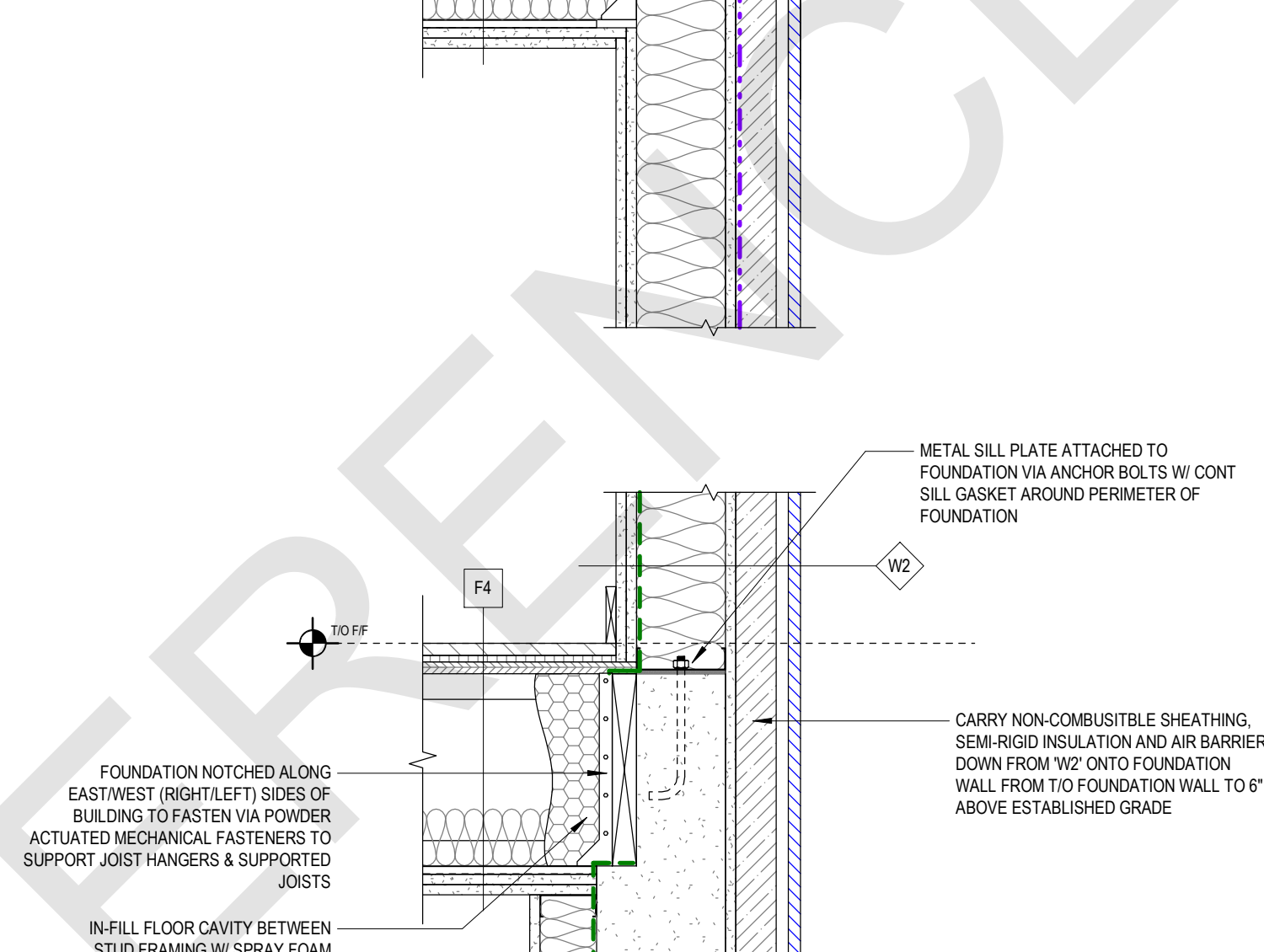
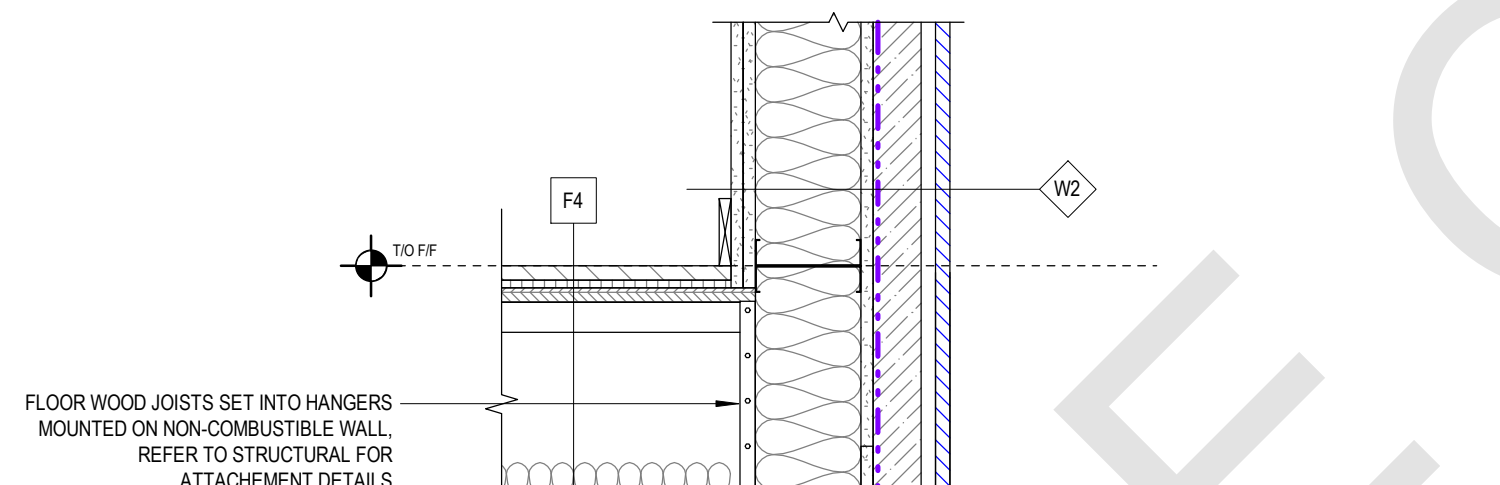
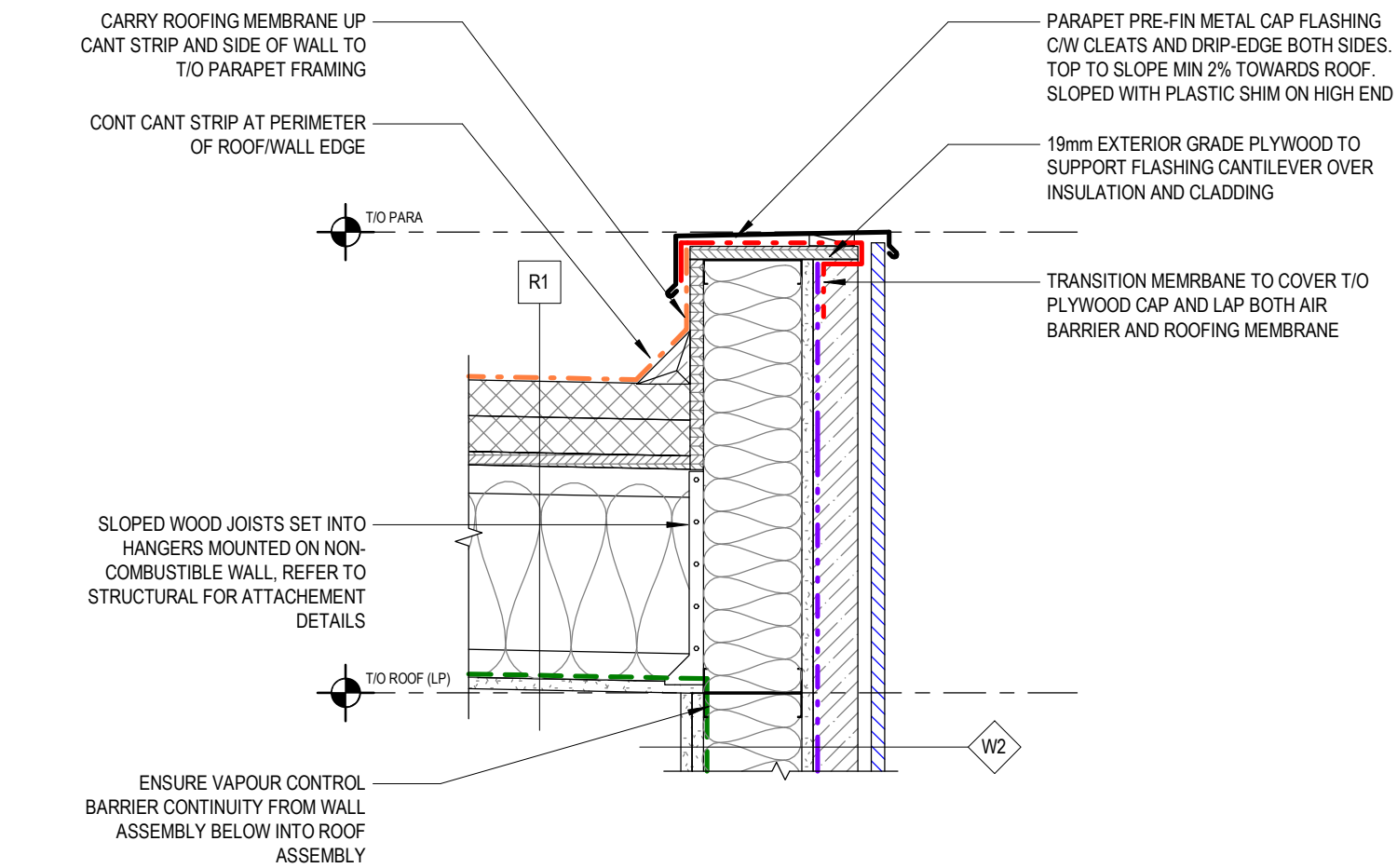
2 SECTION DETAIL - BASEMENT WALKOUT AT SILL

1 : 10



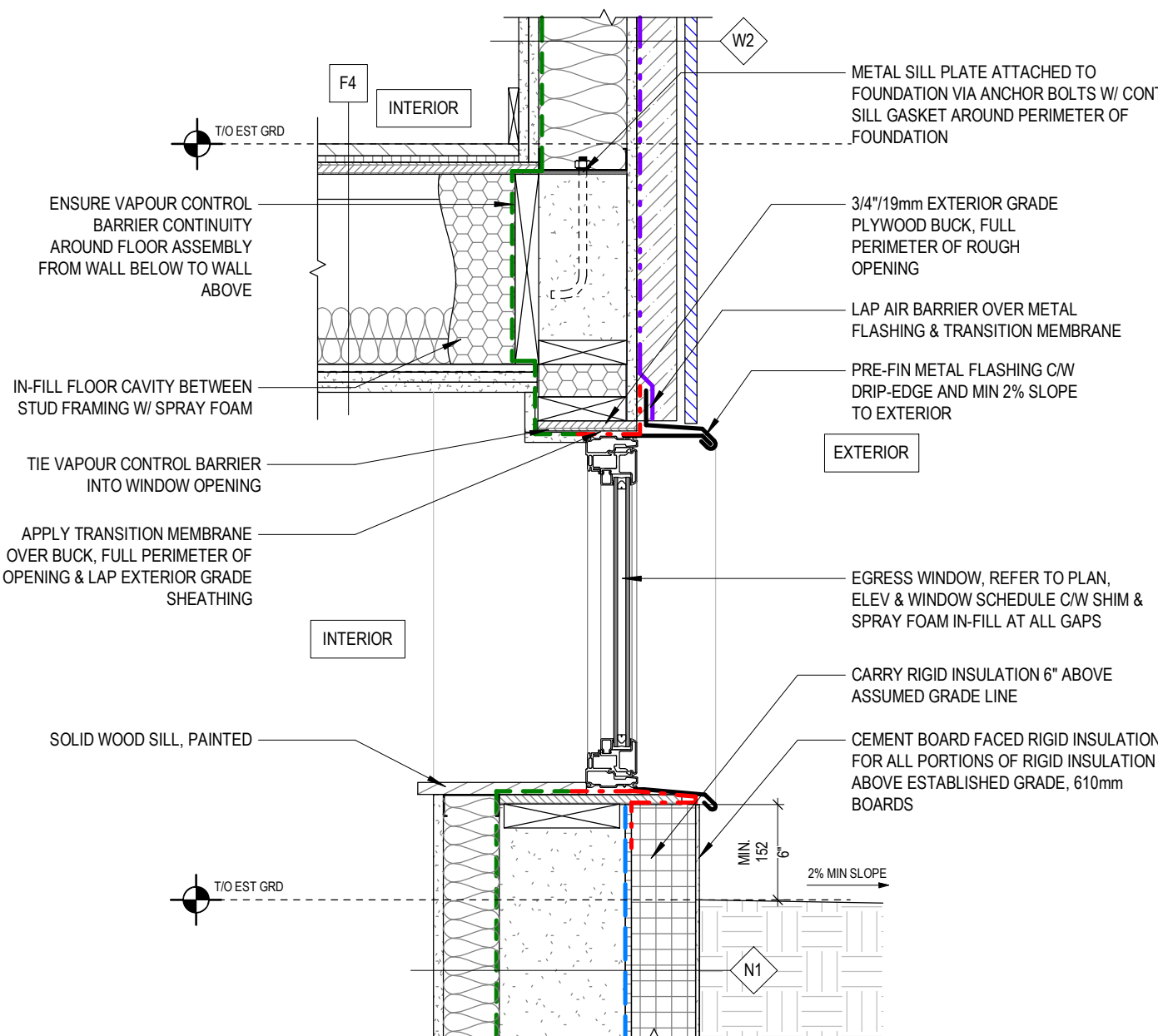
3 SECTION DETAIL - BASEMENT WALKOUT AT DOOR

1 : 10



4 SECTION DETAIL - NON COMBUSTIBLE WALL SECTION

1 : 10



5 SECTION DETAIL - EGRESS WINDOW

1 : 10

NO. DATE DESCRIPTION

PROJECT:
City of Toronto - Multiplex

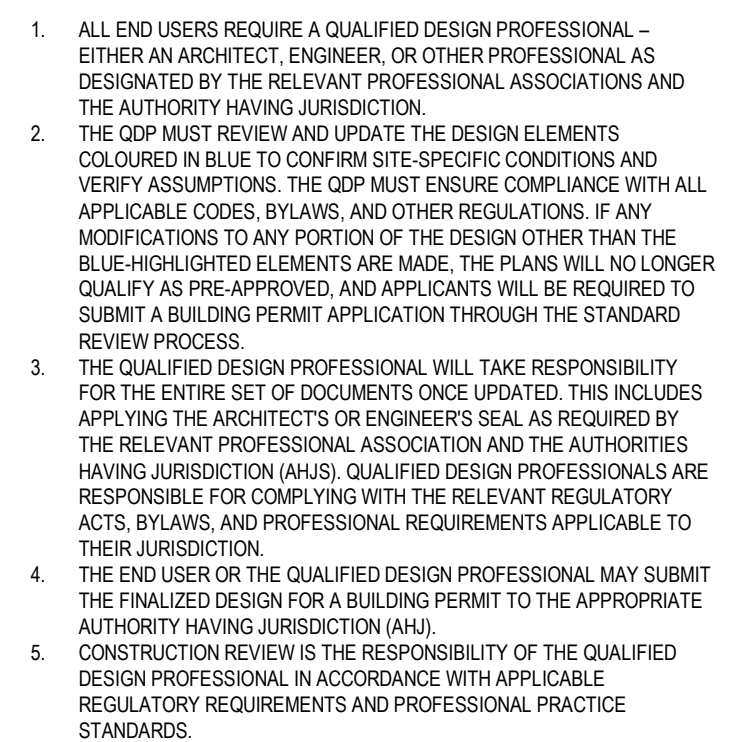
FOURPLEX NARROW

SHEET TITLE:
EXTERIOR TYPICAL
DETAILS

PROJECT NO: 241058
SCALE: 1 : 10

SHEET NO:

A006



	UNPROTECTED OPENING
	EXPOSED BUILDING FACE (FIRE COMPARTMENT)
	EXPOSED BUILDING FACE (TOTAL BUILDING FACE)
	EXPOSED BUILDING FACE OF BELOW GRADE WALKOUT. REFER TO GENERAL NOTE 6.
	PROTECTED GLAZING. REFER TO GENERAL NOTE 7
	WIRE FRAMED GLAZING
	ESTABLISHED GRADE (EXTENT OF ESTABLISHED GRADE DEPENDENT ON REQUIRED SITE SURVEY. TO BE UPDATED BY GQP.)

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COT ZONING MATRIX			NOTES
LOT SIZE			LOT AREA, FRONTAGE, AND DEPTH (DEPENDENT ON REQUIRED SITE SURVEY, QDP TO UPDATE)
LOT AREA (m²)		— m²	
LOT FRONTAGE (m)		— m	
LOT DEPTH (m)		— m	
SETBACKS			
FRONT YARD SETBACK	6.0m		ALL SETBACK REQUIREMENTS AND PERMITTED ENCROACHMENTS ARE DEPENDENT ON RESIDENTIAL ZONE AND SITE. QDP RESPONSIBLE TO ENSURE ALL SETBACKS AND PERMITTED ENCROACHMENTS TO COMPLY WITH APPLICABLE ZONING BYLAW AND BUILDING CODE (LIMITING DISTANCE)
REAR YARD SETBACK	7.5m		
SIDEYARD 1 SETBACK	1.2m		
SIDEYARD 2 SETBACK	0.9m		
RESIDENTIAL UNITS			
BASEMENT	1 DWELLING UNIT	2 BEDROOMS	
GROUND FLOOR	1 DWELLING UNIT	1 BEDROOM	CSA B-652.23 ACCESSIBLE DWELLING UNIT
SECOND FLOOR	1 DWELLING UNIT	2 BEDROOMS	
THIRD FLOOR	1 DWELLING UNIT	1 BEDROOM	
TOTAL BEDROOMS			6 BEDROOMS
TOTAL DWELLING UNITS			4
BUILDING AREA			94.7m²
GROSS FLOOR AREA			
BASEMENT	78.5m²		
OVERALL	92.7m²		
EXCLUSIONS (STAIRWELLS, UTILITY STORAGE)	14.3m²		
GROUND FLOOR	82.2m²		
OVERALL	94.6m²		
EXCLUSIONS (STAIRWELLS)	12.4m²		
SECOND FLOOR	81.8m²		
OVERALL	94.0m²		
EXCLUSIONS (STAIRWELLS)	12.2m²		
THIRD FLOOR	65.5m²		
OVERALL	77.7m²		
EXCLUSIONS (STAIRWELLS)	12.2m²		
TOTAL GROSS FLOOR AREA			308m²
LANDSCAPED AREA			
YARD AREA TOTAL	LANDSCAPING AREA TOTAL	% LANDSCAPING AREA	SOFT LANDSCAPING AREA TOTAL
FRONT YARD	— m²	— %	— m²
REAR YARD	— m²	— %	— m²
SIDE YARD 1	— m²	— %	— m²
SIDE YARD 2	— m²	— %	— m²
BUILDING HEIGHT			
HEIGHT ALLOWABLE PER ZONING (m)	10.0m		BUILDING HEIGHT IS DEPENDENT ON CALCULATION OF ESTABLISHED GRADE. QDP TO UPDATE WITH REQUIRED SITE PLAN. LOWEST POINT OF MAIN PEDESTRIAN ENTRANCES TO BE NO HIGHER THAN 1.2 METERS ABOVE ESTABLISHED GRADE.
PROPOSED BUILDING HEIGHT	10.0m		
BUILDING DEPTH			
DEPTH ALLOWABLE PER ZONING (m)	17.0m		BUILDING DEPTH IS DEPENDENT ON FRONT YARD SETBACK AND LOCATION OF REAR MAIN WALL. BUILDING DEPTH REQUIREMENTS ARE DEPENDENT ON RESIDENTIAL ZONE, REQUIRED SETBACKS AND SITE CONDITIONS. QDP RESPONSIBLE TO ENSURE BUILDING DEPTH COMPLIES WITH APPLICABLE ZONING BYLAW.
DEPTH PROPOSED (m)	— m		
VEHICULAR PARKING PROVIDED			
PARKING SPACES	0		QDP TO PROVIDE PARKING QUANTITY IF PROPOSED
ACCESSIBLE PARKING SPACES	0		
BICYCLE PARKING PROVIDED			
LONG TERM STALLS	0		BICYCLE PARKING QTY: IS SUGGESTION ONLY. QDP TO PROVIDE BIKE PARKING QUANTITY IF PROPOSED
SHORT TERM STALLS	4		

SITE PLAN KEYNOTES	
01	QDP TO CALCULATE ESTABLISHED GRADE USING THE REQUIRED SITE SURVEY. ESTABLISHED GRADE TO BE CALCULATED PER SECTION 800.50(240) OF THE CITY OF TORONTO ZONING BY-LAW.
02	PROPOSED TREE LOCATION AND REQUIRED SOIL VOLUME TO BE ADDED BY QDP. ALL EXISTING TREES SUBJECT TO TORONTO MUNICIPAL CODE CHAPTER 813, TREES.
03	WASTE STORAGE LOCATION AND SIZING TO BE DETERMINED BY QDP. ALL WASTE STORAGE SHOWN AS ENCLOSED WITH SCREEN. WASTE STORAGE SHALL NOT BE ENCLOSED WITH A ROOF OR WALL. SCREEN AND ACCESS DOOR SHALL NOT ENCRoACH BEYOND PROPERTY LINE.
04	VISITOR BIKE PARKING LOCATION AND QUANTITY TO BE DETERMINED BY QDP. PROPOSED BIKE PARKING STALLS TO COMPLY WITH GUIDELINES FOR THE DESIGN AND MANAGEMENT OF BICYCLE PARKING FACILITIES (2024).
05	QDP TO ENSURE ALL EXTERIOR WALKWAYS LEADING TO ACCESSIBLE DWELLING UNIT TO CONFORM TO OBC BARRIER FREE REQUIREMENTS.
06	CONCRETE FOUNDATION RETAINING WALL. REFER TO STRUCT. QDP TO COORDINATE FOUNDATION WALL HEIGHT WITH REQUIRED SITE SURVEY. REFER TO STRUCT.
07	LANDSCAPED TERRACE. QDP TO CONFIRM GRADE CHANGE AT ALL LANDSCAPED TERRACES WITH REQUIRED SITE SURVEY. QDP TO DETERMINE IF GRADE CHANGE REQUIRES GUARD PER OBC 9.8.8.1.(1).
08	RESERVED
09	BELOW GRADE WALKOUT. CONCRETE SLAB ON GRADE. REFER TO ARCH.
10	1070MM GUARD MOUNTED ON FOUNDATION WALL AS REQUIRED PER OBC 9.8.8.1.(1).
11	PROJECTED BALCONY. REFER TO ARCH.
12	EXTENT OF BUILDING FOOTPRINT BELOW. REFER TO ARCH.
13	JULIET BALCONY. REFER TO ARCH.
14	ROOF DECK. REFER TO ARCH.
15	ENTRY PORCH. STEEL DECK WITH CONCRETE TOPPING REFER TO STRUCT.
16	GALVANISED STEEL STAIR. WITH GALVANISED GRATE TREADS. REFER TO STRUCT.
17	UNENCLOSED VERTICAL LIFT AS PER CSA B355.24
18	NON-COMBUSTIBLE CANOPY. REFER TO ARCH.
19	BAY WINDOW. REFER TO ARCH.
20	SKYLIGHT. REFER TO ARCH.
21	DOWN SPOUT AND EXTENSION AS PER OBC 9.26.18.2.(1). LENGTH AND PLACEMENT OF EXTENSION TO BE CONFIRMED BY QDP. PLACEMENT SHALL NOT IMPEDE SIDE YARD ACCESS.
22	DRAINAGE DITCH OR DRY WELL FOR SUMP PUMP IF REQUIRED PER 9.14.5.2(3). LOCATION TO BE DETERMINED BY QDP.
23	UNENCLOSED GALVANISED STEEL EXTERIOR EXIT STAIR AND LANDINGS. REFER TO STRUCT.
24	PADMOUNTED TRANSFORMER. QDP TO ENSURE LOCATION, DIMENSIONS, AND SETBACKS COMPLY WITH ALL TORONTO HYDRO REQUIREMENTS.

SITE PLAN GENERAL NOTES	
1.	A SITE SURVEY WILL BE REQUIRED FOR THE PERMIT APPLICATION AND ALL DIMENSIONS, SETBACKS AND GEODETIC ELEVATIONS IDENTIFIED ON THE FINAL SITE PLAN SHALL BE DERIVED FROM THE SITE SPECIFIC INFORMATION.
2.	THE SITE PLAN IN THE DOCUMENT IS REPRESENTATIVE ONLY AND INTENDED TO ILLUSTRATE SAMPLE SOLUTIONS TO THE RANGE OF ITEMS TO BE INCLUDED IN THE FINAL SITE PLAN SUBMITTED FOR PERMIT. REFER TO SAMPLE COT ZONING MATRIX INCORPORATED IN THE PACKAGE FOR THE REQUIRED INFORMATION.
3.	ALL ACCESSIBLE REQUIREMENTS ON THE SITE PLAN ARE BASED ON THE PERTINENT OBC DIMENSIONS. AN ALTERNATIVE COMPLIANCE DOCUMENT IS THE CSA B651.23.
4.	ALL FINISHED LANDSCAPE SHOWN INCLUDING TREES AND SOFTSCAPE IS A GUIDELINE ONLY.
5.	ALL MATERIALS INDICATED IN SITE PLAN KEY NOTES ARE REPRESENTATIVE ONLY AND INTENDED TO ILLUSTRATE A SAMPLE FINISH.
6.	ALL STRUCTURED WASTE MANAGEMENT AND BICYCLE PARKING ON SITE PLAN ARE REPRESENTATIVE ONLY AND INTENDED TO ILLUSTRATE SAMPLE SOLUTIONS.
7.	ALL SITE PLANS TO INCLUDE BUILDING NORTH.
8.	THESE PLANS ARE EXPECTED TO COMPLY WITH PART 9 OF THE ONTARIO BUILDING CODE TAKING INTO CONSIDERATION THE BUILDING HEIGHT, AS DEFINED BY THE ONTARIO BUILDING CODE (OBC), IS DETERMINED BASED ON THE AVERAGE GRADE CALCULATED AROUND THE PERIMETER OF THE BUILDING. THE LOWEST LEVEL IS REQUIRED TO BE CLASSIFIED AS A "BASEMENT". THE QDP IS REQUIRED TO PROVIDE AVERAGE GRADE AND FIRST-STOREY CALCULATIONS DEMONSTRATING THIS. THE USE OF PLANTERS, RETAINING WALLS, OR PODIUMS TO ARTIFICIALLY ENHANCE THE GRADINGS OF THE SITE AS IT RELATES THE BUILDING HEIGHT IS NOT PERMITTED.
9.	THE SITE PLAN SHOWN IS DIAGRAMMATIC ONLY. PROPERTY LINES, GRADES, ELEVATIONS, SETBACKS, SERVICING LOCATIONS, TREE PROTECTION ZONES, SOFT LANDSCAPING, PARKING, WASTE STORAGE, DRAINAGE PATTERNS, RETAINING WALLS, AND ACCESSIBILITY FEATURES SHALL BE DERIVED FROM A CURRENT SITE SURVEY AND VERIFIED BY THE QUALIFIED DESIGN PROFESSIONAL.

SITE PLAN LEGEND	
	SOFT LANDSCAPE, QDP TO UPDATE AS PER SOFT LANDSCAPING REQUIREMENTS
	CONCRETE UNIT PAVERS
	CONCRETE HARDSCAPE AT GRADE TO BE UPDATED BY QDP
	CONCRETE HARDSCAPE (REFER TO ARCH.)
	DECKING AT WALKOUT TERRACE (REFER TO ARCH.)
	SCREENED WASTE STORAGE AREA. REFER TO KEYNOTE 03.
	SPOT ELEVATION. GEODETIC ELEVATION TO BE UPDATED BY QDP WITH REQUIRED SITE SURVEY.
	SHORT TERM BIKE PARKING STALL. REFER TO KEYNOTE 04.
	UNENCLOSED VERTICAL LIFT. REFER TO KEYNOTE 17
	1800MM TURNING DIAMETER AT ENTRY PORCH TO CONFORM TO CSA-B652.23. 1500MM TURNING DIAMETER AS PER OBC AT GRADE WHERE REQUIRED.
	SUGGESTED TREE LOCATION. REFER TO KEYNOTE 02.

PROFESSIONAL SEAL:

GENERAL NOTES:

- NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
- DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

- ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
- THE QDP MUST REVIEW AND UPDATE THE DESIGN ELEMENTS COLOURED IN BLUE TO CONFIRM SITE-SPECIFIC CONDITIONS AND VERIFY ASSUMPTIONS. THE QDP MUST ENSURE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS. IF ANY MODIFICATIONS TO ANY PORTION OF THE DESIGN OTHER THAN THE BLUE-HIGHLIGHTED ELEMENTS ARE MADE, THE PLANS WILL NO LONGER QUALIFY AS PRE-APPROVED, AND APPLICANTS WILL BE REQUIRED TO SUBMIT A BUILDING PERMIT APPLICATION THROUGH THE STANDARD REVIEW PROCESS.
- THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED. THIS INCLUDES APPLYING THE ARCHITECT'S OR ENGINEER'S SEAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATION AND THE AUTHORITIES HAVING JURISDICTION (AHJ). QUALIFIED DESIGN PROFESSIONALS ARE RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
- THE END USER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (AHJ).
- CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

NO. DATE DESCRIPTION

PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
BASEMENT FLOOR PLAN

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:

A100

FLOOR PLAN GENERAL NOTES

- MIN CEILING HEIGHTS AS PER OBC TABLE 9.5.3.1
BATHROOMS & HALLWAYS = 2100mm
BEDROOM = 2300mm (50%) OR 2100mm (100%)
LIVING/DINING/KITCHEN = 2300mm (75%) OR 2100mm (100%)
- MIN ROOM AREAS AS PER OBC TABLE 9.5.3A-E
LIVING ROOM = 13.5m² (11m² COMBINED WITH KITCHEN & DINING FOR TWO PEOPLE)
DINING = 3.25m² (COMBINED ROOM)
KITCHEN = 4.2m² (3.7m² FOR TWO PEOPLE)
BEDROOM = 6m² (WITH CLOSET)
MASTER BEDROOM = 8.8m² (WITH CLOSET)
COMBINED LIVING, DINING, AND KITCHEN = 21.25m² (17.95m² FOR TWO PEOPLE)
- ALL ROOMS LABELLED AS 'DEN' SHALL NOT BE USED AS A BEDROOM. DENS SHALL NOT BE PROVIDED WITH A DOOR.
- ALL DROPPED CEILINGS AND BULKHEADS FOR MECHANICAL TO PROVIDE MIN 2100mm CLEAR HEIGHT BELOW
- UNITS SHOWING ONLY ONE BEDROOM ARE DESIGNED TO ACCOMMODATE NOT MORE THAN TWO PEOPLE
- ALL EXTERIOR STAIRS DESIGNED FROM FLOOR LEVEL TO ASSUMED GRADE. QDP TO ADJUST AS REQ. PER SITE GRADING AND ENSURE REQUIREMENTS OF OBC 9.8 ARE MET.

FIRE SEPARATION LEGEND (MIN. REQ.)

- 1HR FIRE SEPARATION
- 45MIN FIRE SEPARATION

RATED ASSEMBLIES LEGEND (MIN. REQ.)

- 1HR FRR
- 45MIN FRR

FLOOR PLAN KEYNOTES

- ROOF DECK
- ROOF DRAIN/THROUGH WALL SCUPPER CONNECTED TO DOWNSPOUT
- ALL STUD WALLS TO BE REINFORCED TO PERMIT FUTURE INSTALLATION OF GRAB BARS BEHIND WATER CLOSETS, BATHUBS/SHOWERS AS PER 9.5.2.4. ALL GWB TO BE MOISTURE RESISTANT AND SUBSTITUTED FOR TILE BACKER ON ALL TILED WALL SURFACES.
- NON COMBUSTIBLE CANOPY ABOVE ENTRANCES
- RESERVED
- LANDSCAPED TERRACE
- BELOW GRADE WALKOUT
- STORM WATER SUMP PUMP BELOW SLAB REFER TO MECH- DISCHARGE PER SITE CONDITIONS - SEE SITE PLAN
- RESERVED
- 1070MM GUARD AS REQUIRED PER 9.8.8.1(1)
- UNENCLOSED VERTICAL LIFT AS PER CSA B355.24
- ENTRY PORCH
- PROJECTED BALCONY
- SANITARY SUMP PIT BELOW SLAB IF REQUIRED. REFER TO MECH
- LATERAL STABILIZING COLUMN ON CONCRETE PIER. REFER TO STRUCT.
- SKYLIGHT ABOVE
- STRUCTURAL STUD WALL WITH PLYWOOD SHEATHING-REFER TO STRUCT. COW 16 MM TYPE X GIB ON EACH SIDE
- 1 HR FRR SUPPORTING STRUCTURE. SEE STRUCT. REFER TO A003 INTERIOR DETAIL - FIRE RATED STRUCTURAL POST, PARTITION WALL
- ALTERNATE CURVED LANDING. REFER TO STRUCT
- DOUBLE STUD WALL WITH PLYWOOD SHEATHING ON ONE SIDE. REFER TO STRUCT.
- PROTECTED WINDOW
- PROVIDE FURRING ON WALL FRAMING AS REQUIRED TO ALIGN WITH STAIR DIMENSIONS
- RESERVED

FLOOR PLAN LEGEND

	FLOOR MOUNTED TOILET
	PRE-FAB STANDING SHOWER
	PRE-FAB TUB
	KITCHEN SINK
	KITCHEN SINK (SMALL)
	WASHROOM SINK
	WASHER (W) DRYER (D) STACKED WASHER AND DRYER (W/D)
	DOMESTIC HOT WATER
	AIR HANDLER
	RANGE, TYPICAL
	RANGE, NARROW
	REFRIGERATOR
	REFRIGERATOR (NARROW)
	DISHWASHER
	DISHWASHER (NARROW)
	CLOSET COAT ROD
	ELECTRICAL PANEL

1 A100 BASEMENT FLOOR PLAN
1:50

LEGEND

GENERAL NOTE:
UNIT 2 DESIGNED TO CSA/ASC B652.23 - "ACCESSIBLE DWELLINGS." CONSULT THE STANDARD FOR A COMPLETE SET OF REQUIREMENTS.

DOORS AND DOORWAYS (B652:23 5.7)

REFER TO B652:23 5.7 DOORS AND DOORWAYS FOR ADDITIONAL REQUIREMENTS:
1. DOOR WIDTH AND CLEARANCE REQUIREMENTS
2. POWER DOOR OPERATOR REQUIREMENTS

SLIDING DOOR

SWINGING DOOR

BATHROOMS (B652:23 5.9)

REFER TO B652:23 5.9 BATHROOM(S) FOR ADDITIONAL REQUIREMENTS:
1. WALL REINFORCING BACKING AND GRAB BARS
2. VANITY AND ACCESSORY REQUIREMENTS
3. WASHROOM ILLUMINATION REQUIREMENTS

ROLL-IN SHOWER

TOILET

BATHROOM SINK

KITCHEN (B652:23 5.10)

REFER TO B652:23 5.10 KITCHENS FOR ADDITIONAL REQUIREMENTS:
1. MIN. REQ COUNTER SPACE BETWEEN COOKTOP AND SINK NOT LESS THAN 820mm
2. ADDITIONAL KITCHEN FIXTURE AND APPLIANCE REQUIREMENTS
3. ELECTRICAL REQUIREMENTS IN KITCHEN
4. ADDITIONAL CABINETRY AND SPACE PLANNING REQUIREMENTS

REFRIGERATOR

KITCHEN SINK

COOKTOP

MICROWAVE

BEDROOMS (B652:23 5.11)

REFER TO B652:23 5.11 BEDROOMS FOR ADDITIONAL REQUIREMENTS:
1. CLEAR SPACE AND TRANSFER SPACES AROUND BED
2. ELECTRICAL REQUIREMENTS IN BEDROOMS

LAUNDRY (B652:23 5.12)

CLOSETS (B652:23 5.13)

WASHER AND DRYER

WASHER AND DRYER AS PER B652:23 5.12 KITCHENS
CLEAR SPACE AS PER B652:23 5.12 LAUNDRY

1800mm MIN. TURNING DIAMETER IN FRONT OF BEDROOM CLOSET AS PER B652:23 5.11 BEDROOMS

FLOOR PLAN GENERAL NOTES

- MIN CEILING HEIGHTS AS PER OBC TABLE 9.5.3.1
BATHROOMS & HALLWAYS = 2100mm
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FIRE SEPARATION LEGEND (MIN. REQ.)

1HR FIRE SEPARATION

45MIN FIRE SEPARATION

RATED ASSEMBLIES LEGEND (MIN. REQ.)

1HR FRR

45MIN FRR

FLOOR PLAN KEYNOTES

- ROOF DECK
- ROOF DRAINTHROUGH WALL SCUPPER CONNECTED TO DOWNSPOUT
- ALL STUD WALLS TO BE REINFORCED TO PERMIT FUTURE INSTALLATION OF GRAB BARS BEHIND WATER CLOSETS, BATHTUBS/SHOWERS AS PER 9.5.2.4. ALL GWB TO BE MOISTURE RESISTANT AND SUBSTITUTED FOR TILE BACKER ON ALL TILED WALL SURFACES.
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FLOOR PLAN LEGEND		
	FLOOR MOUNTED TOILET	
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	KITCHEN SINK (SMALL)	
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	WASHER (W)	
	DRYER (D)	
	STACKED WASHER AND DRYER (WD)	
	DOMESTIC HOT WATER	
	AIR HANDLER	
	RANGE, TYPICAL	
	RANGE, NARROW	
	REFRIGERATOR	
	REFRIGERATOR (NARROW)	
	DISHWASHER	
	DISHWASHER (NARROW)	
	CLOSET COAT ROD	
	ELECTRICAL PANEL	

Toronto

PROFESSIONAL SEAL:

GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.

3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

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NO. DATE DESCRIPTION

PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
MAIN FLOOR PLAN

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:
A101

PROFESSIONAL SEAL:

GENERAL NOTES:

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NO. DATE DESCRIPTION

PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
SECOND FLOOR PLAN

PROJECT NO: 241058
SCALE: 1 : 50

SHEET NO:

A102

FLOOR PLAN GENERAL NOTES

- MIN CEILING HEIGHTS AS PER OBC TABLE 9.5.3.1
BATHROOMS & HALLWAYS = 2100mm
BEDROOM = 2300mm (50%) OR 2100mm (100%)
LIVING/DINING/KITCHEN = 2300mm (75%) OR 2100mm (100%)
- MIN ROOM AREAS AS PER OBC TABLE 9.5.3A-E
LIVING ROOM = 13.5m² (11m² COMBINED WITH KITCHEN & DINING FOR TWO PEOPLE)
DINING = 3.25m² (COMBINED ROOM)
KITCHEN = 4.2m² (3.7m² FOR TWO PEOPLE)
BEDROOM = 6m² (WITH CLOSET)
MASTER BEDROOM = 8.8m² (WITH CLOSET)
COMBINED LIVING, DINING, AND KITCHEN = 21.25m² (17.95m² FOR TWO PEOPLE)
- ALL ROOMS LABELLED AS 'DEN' SHALL NOT BE USED AS A BEDROOM. DENS SHALL NOT BE PROVIDED WITH A DOOR.
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- UNITS SHOWING ONLY ONE BEDROOM ARE DESIGNED TO ACCOMMODATE NOT MORE THAN TWO PEOPLE
- ALL EXTERIOR STAIRS DESIGNED FROM FLOOR LEVEL TO ASSUMED GRADE. QDP TO ADJUST AS REQ. PER SITE GRADING AND ENSURE REQUIREMENTS OF OBC 9.8 ARE MET.

FIRE SEPARATION LEGEND (MIN. REQ.)

	1HR FIRE SEPARATION
	45MIN FIRE SEPARATION

RATED ASSEMBLIES LEGEND (MIN. REQ.)

	1HR FRR
	45MIN FRR

FLOOR PLAN KEYNOTES

- ROOF DECK
- ROOF DRAIN/THROUGH WALL SCUPPER CONNECTED TO DOWNSPOUT
- ALL STUD WALLS TO BE REINFORCED TO PERMIT FUTURE INSTALLATION OF GRAB BARS BEHIND WATER CLOSETS, BATHUBS/SHOWERS AS PER 9.5.2.4. ALL GWB TO BE MOISTURE RESISTANT AND SUBSTITUTED FOR TILE BACKER ON ALL TILED WALL SURFACES.
- NON COMBUSTIBLE CANOPY ABOVE ENTRANCES
- RESERVED
- LANDSCAPED TERRACE
- BELOW GRADE WALKOUT
- STORM WATER SUMP PUMP BELOW SLAB REFER TO MECH- DISCHARGE PER SITE CONDITIONS - SEE SITE PLAN
- RESERVED
- 1070MM GUARD AS REQUIRED PER 9.8.8.1(1)
- UNENCLOSED VERTICAL LIFT AS PER CSA B355.24
- ENTRY PORCH
- PROJECTED BALCONY
- SANITARY SUMP PIT BELOW SLAB IF REQUIRED. REFER TO MECH
- LATERAL STABILIZING COLUMN ON CONCRETE PIER. REFER TO STRUCT.
- SKYLIGHT ABOVE
- STRUCTURAL STUD WALL WITH PLYWOOD SHEATHING-REFER TO STRUCT. COW 16 MM TYPE X GIBS ON EACH SIDE
- 1 HR FRR SUPPORTING STRUCTURE. SEE STRUC. REFER TO A003 INTERIOR DETAIL - FIRE RATED STRUCTURAL POST, PARTITION WALL
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- PROVIDE FURRING ON WALL FRAMING AS REQUIRED TO ALIGN WITH STAIR DIMENSIONS
- RESERVED

FLOOR PLAN LEGEND

	FLOOR MOUNTED TOILET
	PRE-FAB STANDING SHOWER
	PRE-FAB TUB
	KITCHEN SINK
	KITCHEN SINK (SMALL)
	WASHROOM SINK
	WASHER (W) DRYER (D) STACKED WASHER AND DRYER (WD)
	DOMESTIC HOT WATER
	AIR HANDLER
	RANGE, TYPICAL
	RANGE, NARROW
	REFRIGERATOR
	REFRIGERATOR (NARROW)
	DISHWASHER
	DISHWASHER (NARROW)
	CLOSET COAT ROD
	ELECTRICAL PANEL

SECOND FLOOR PLAN

1 : 50

PROFESSIONAL SEAL:

GENERAL NOTES:

- NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
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- DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

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NO. DATE DESCRIPTION

PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
THIRD FLOOR PLAN

PROJECT NO: 241058
SCALE: 1 : 50

SHEET NO:

A103

FLOOR PLAN GENERAL NOTES

- MIN CEILING HEIGHTS AS PER OBC TABLE 9.5.3.1
BATHROOMS & HALLWAYS = 2100mm
BEDROOM = 2300mm (50%) OR 2100mm (100%)
LIVING/DINING/KITCHEN = 2300mm (75%) OR 2100mm (100%)
- MIN ROOM AREAS AS PER OBC TABLE 9.5.3A-E
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- ALL EXTERIOR STAIRS DESIGNED FROM FLOOR LEVEL TO ASSUMED GRADE. QDP TO ADJUST AS REQ. PER SITE GRADING AND ENSURE REQUIREMENTS OF OBC 9.8 ARE MET.

FIRE SEPARATION LEGEND (MIN. REQ.)

	1HR FIRE SEPARATION
	45MIN FIRE SEPARATION

RATED ASSEMBLIES LEGEND (MIN. REQ.)

	1HR FRR
	45MIN FRR

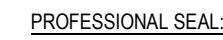
FLOOR PLAN KEYNOTES

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- ROOF DRAIN/THROUGH WALL SCUPPER CONNECTED TO DOWNSPOUT
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- RESERVED
- LANDSCAPED TERRACE
- BELOW GRADE WALKOUT
- STORM WATER SUMP PUMP BELOW SLAB REFER TO MECH- DISCHARGE PER SITE CONDITIONS - SEE SITE PLAN
- RESERVED
- 1070MM GUARD AS REQUIRED PER 9.8.8.1(1)
- UNENCLOSED VERTICAL LIFT AS PER CSA B355.24
- ENTRY PORCH
- PROJECTED BALCONY
- SANITARY SUMP PIT BELOW SLAB IF REQUIRED. REFER TO MECH
- LATERAL STABILIZING COLUMN ON CONCRETE PIER. REFER TO STRUCT.
- SKYLIGHT ABOVE
- STRUCTURAL STUD WALL WITH PLYWOOD SHEATHING-REFER TO STRUCT. COW 16 MM TYPE X GIBS ON EACH SIDE
- 1 HR FRR SUPPORTING STRUCTURE. SEE STRUCT. REFER TO A003 INTERIOR DETAIL - FIRE RATED STRUCTURAL POST, PARTITION WALL
- ALTERNATE CURVED LANDING. REFER TO STRUCT
- DOUBLE STUD WALL WITH PLYWOOD SHEATHING ON ONE SIDE. REFER TO STRUCT.
- PROTECTED WINDOW
- PROVIDE FURRING ON WALL FRAMING AS REQUIRED TO ALIGN WITH STAIR DIMENSIONS
- RESERVED

FLOOR PLAN LEGEND

	FLOOR MOUNTED TOILET
	PRE-FAB STANDING SHOWER
	PRE-FAB TUB
	KITCHEN SINK
	KITCHEN SINK (SMALL)
	WASHROOM SINK
	WASHER (W)
	DRYER (D)
	STACKED WASHER AND DRYER (WD)
	DOMESTIC HOT WATER
	AIR HANDLER
	RANGE, TYPICAL
	RANGE, NARROW
	REFRIGERATOR
	REFRIGERATOR (NARROW)
	DISHWASHER
	DISHWASHER (NARROW)
	CLOSET COAT ROD
	ELECTRICAL PANEL

1 A103
THIRD FLOOR PLAN
1 : 50



1. ALL ROOFING TYPES TO COMPLY WITH REQUIRED MINIMUM SLOPES AS PER OBC 9.26.3 AND MANUFACTURER REQUIREMENTS FOR SPECIFIED ROOFING TYPE
2. ALL ROOFS, GUTTERS AND TROUGHS HAVE POSITIVE SLOPE TO DRAIN

- 01 RESERVED
- 02 COUNTER SLOPE TO DRAINS WITH TAPERED BOARD INSULATION OR SLOPE MARINE GRADE PLYWOOD
- 03 ROOF DRAIN/THROUGH WALL SCUPPER CONNECTED TO DOWNSPOUT
- 04 ROOF DRAIN/THROUGH WALL SCUPPER CONNECTED TO DOWNSPOUT WITH SLOPED HORIZONTAL TO MAIN ROOF DOWNSPOUT

GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

- ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL –
EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONALS AS
DESIGNED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND
THE COMPETENCY HAVE TO BE VERIFIED BY THE QUALIFIED DESIGN
PROFESSIONAL. THE QD MUST REVIEW AND UPDATE THE DESIGN ELEMENTS
COLOURED IN BLUE TO CONFIRM SITE-SPECIFIC CONDITIONS AND
VERIFICATION OF THE PROFESSIONAL'S DESIGN. THE QD MUST ALSO
IN APPROPRIATE CASES, BYLAWS, AND OTHER REGULATIONS, IF ANY
MODIFICATIONS TO ANY PORTION OF THE DESIGN OTHER THAN THE
BLUE HIGHLIGHTED ELEMENTS ARE MADE, THE PLANS WILL NO LONGER
BE VALID. THE QD MUST PRE-APPROVE ANY CHANGES TO THE QD
TO SUBMIT A BUILDING PERMIT APPLICATION THROUGH THE STANDARD
REVIEW PROCESS.
- THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY
FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED. THIS INCLUDES
APPLYING THE ARCHITECTS' OR ENGINEERS' SEAL AS REQUIRED BY
THE RELEVANT PROFESSIONAL ASSOCIATIONS. THE QD MUST HAVE
HAVING JURISDICTION (AHUS). QUALIFIED DESIGN PROFESSIONALS ARE
RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY
ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO
THEIR JURISDICTION.
- THE END USER OF THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT
THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE
AUTHORITY. HAVING JURISDICTION (AHUS) IS THE QD'S RESPONSIBILITY.
CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED
DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE
AUTHORITY REQUIREMENTS AND PROFESSIONAL PRACTICE
STANDARDS.

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

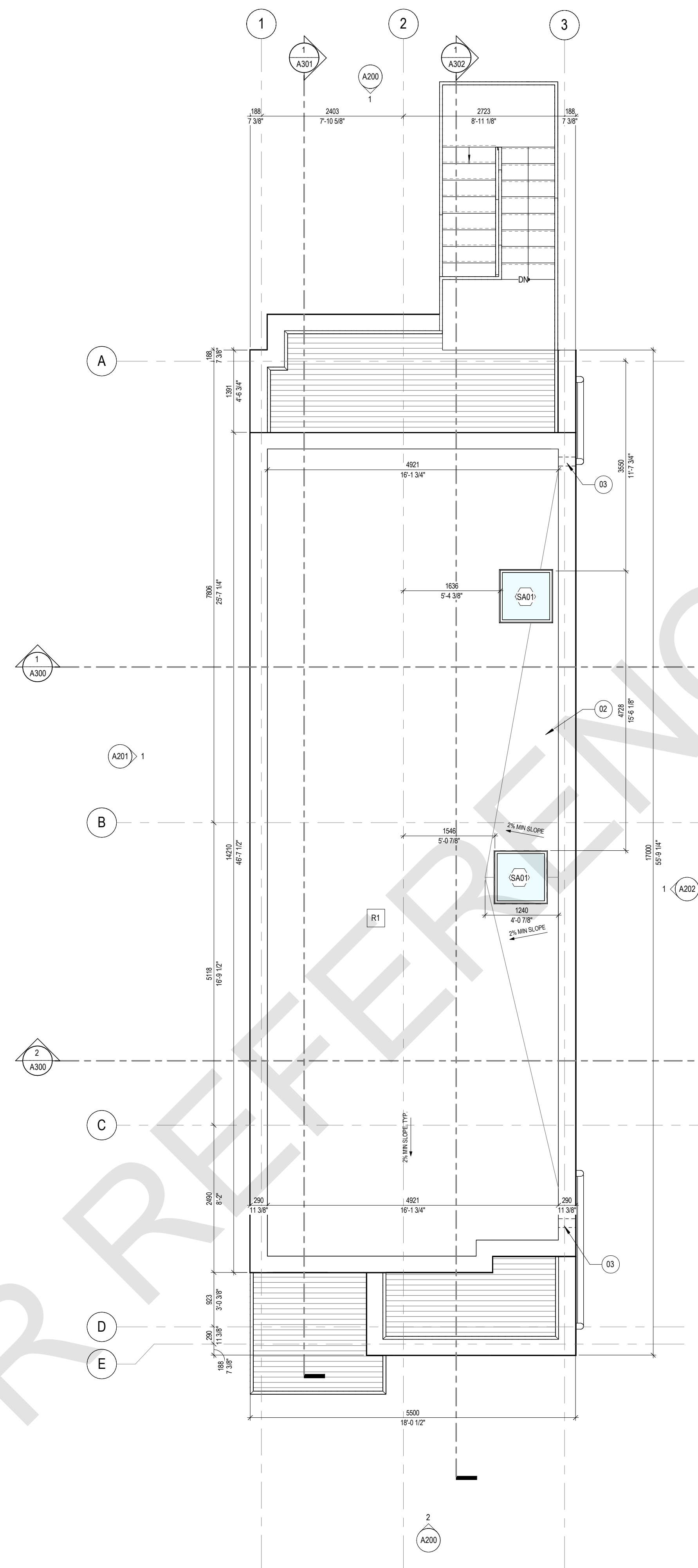
ROOF PLAN

PROJECT NO:

241058

SHEET NO:

A104



ELEVATION MATERIAL SCHEDULE	
TAG	MATERIAL
CP-3	CLADDING, TYPE 3
CP-4	CLADDING, TYPE 4
PFM	PRE-FINISHED METAL FLASHING

TAG	MATERIAL
CP-3	CLADDING, TYPE 3
CP-4	CLADDING, TYPE 4
PFM	PRE-FINISHED METAL FLASHING

NO.	DATE	DESCRIPTION
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PROJECT:
City of Toronto - Multiplex

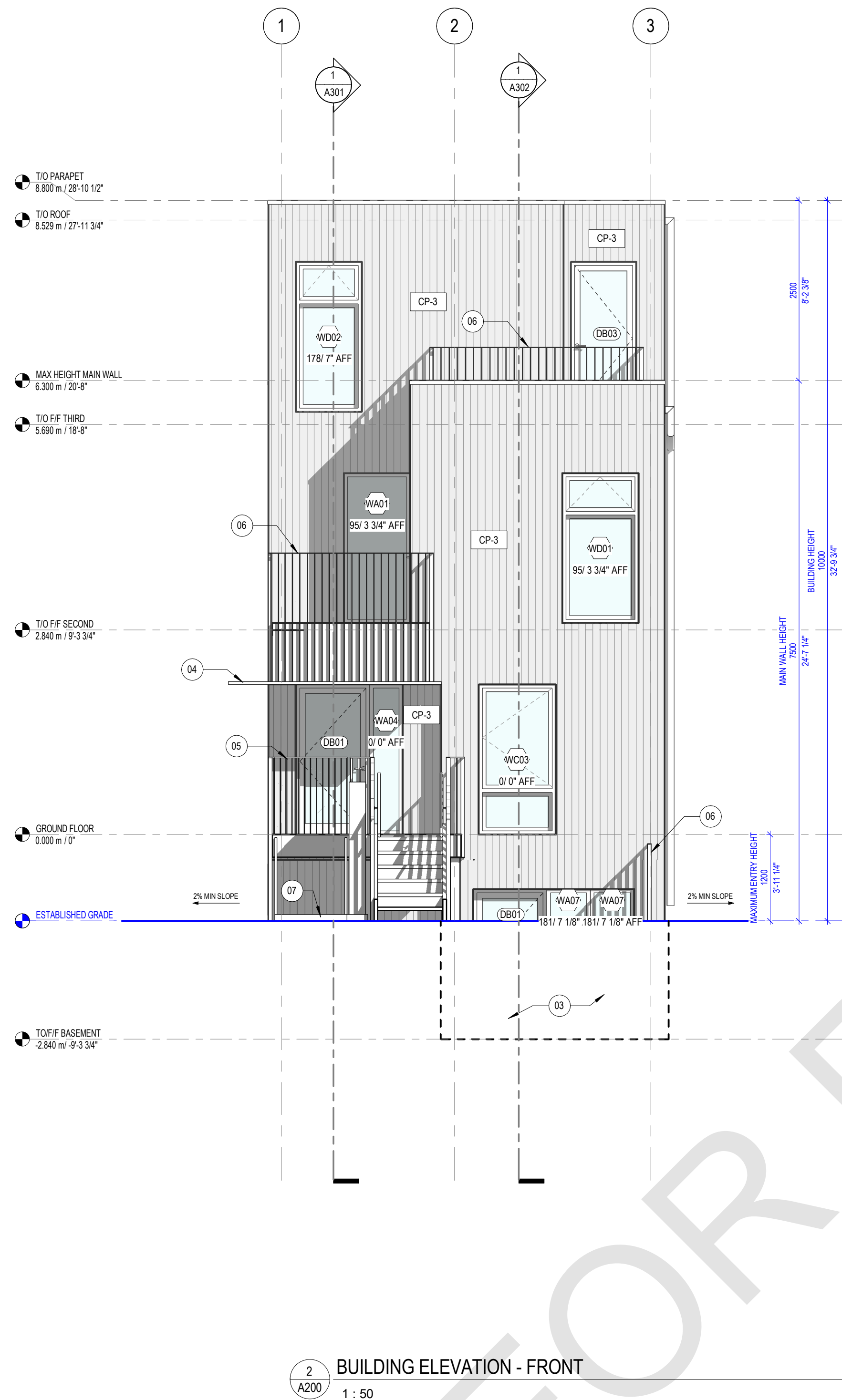
FOURPLEX NARROW

SHEET TITLE:
ELEVATIONS

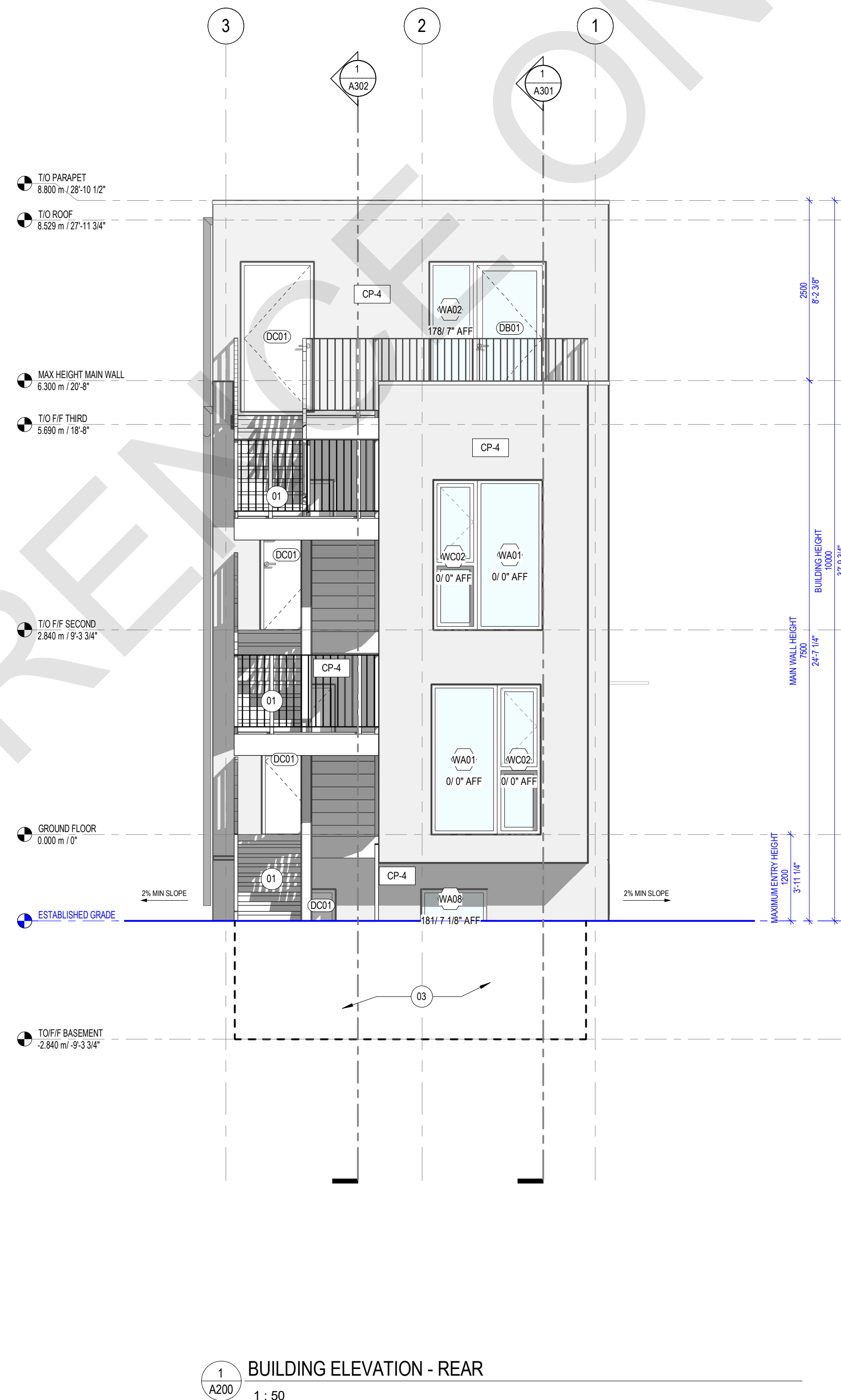
PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A200



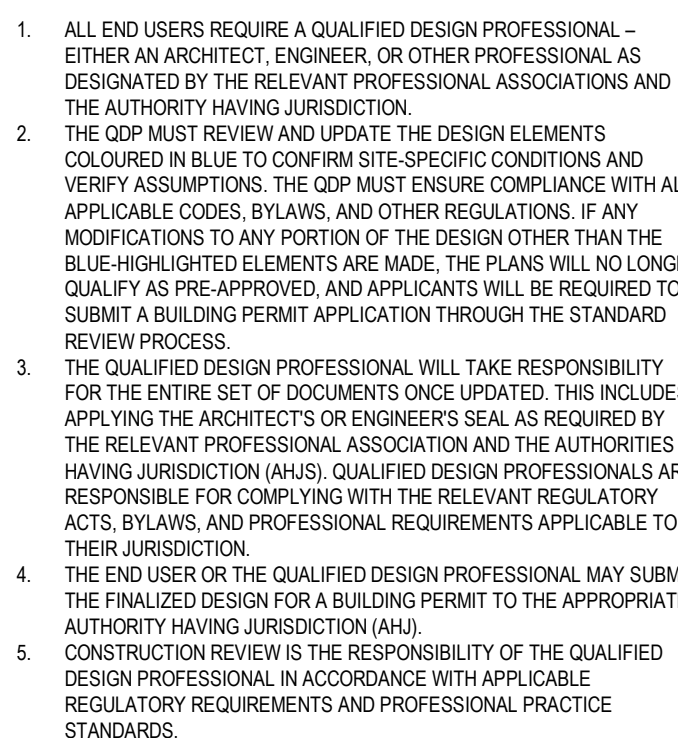
2 BUILDING ELEVATION - FRONT
A200 1 : 50



1
A200

BUILDING ELEVATION - REAR

1:50



ELEVATION MATERIAL SCHEDULE	
TAG	MATERIAL
CP-3	CLADDING, TYPE 3
CP-4	CLADDING, TYPE 4
PFM	PRE-FINISHED METAL FLASHING

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

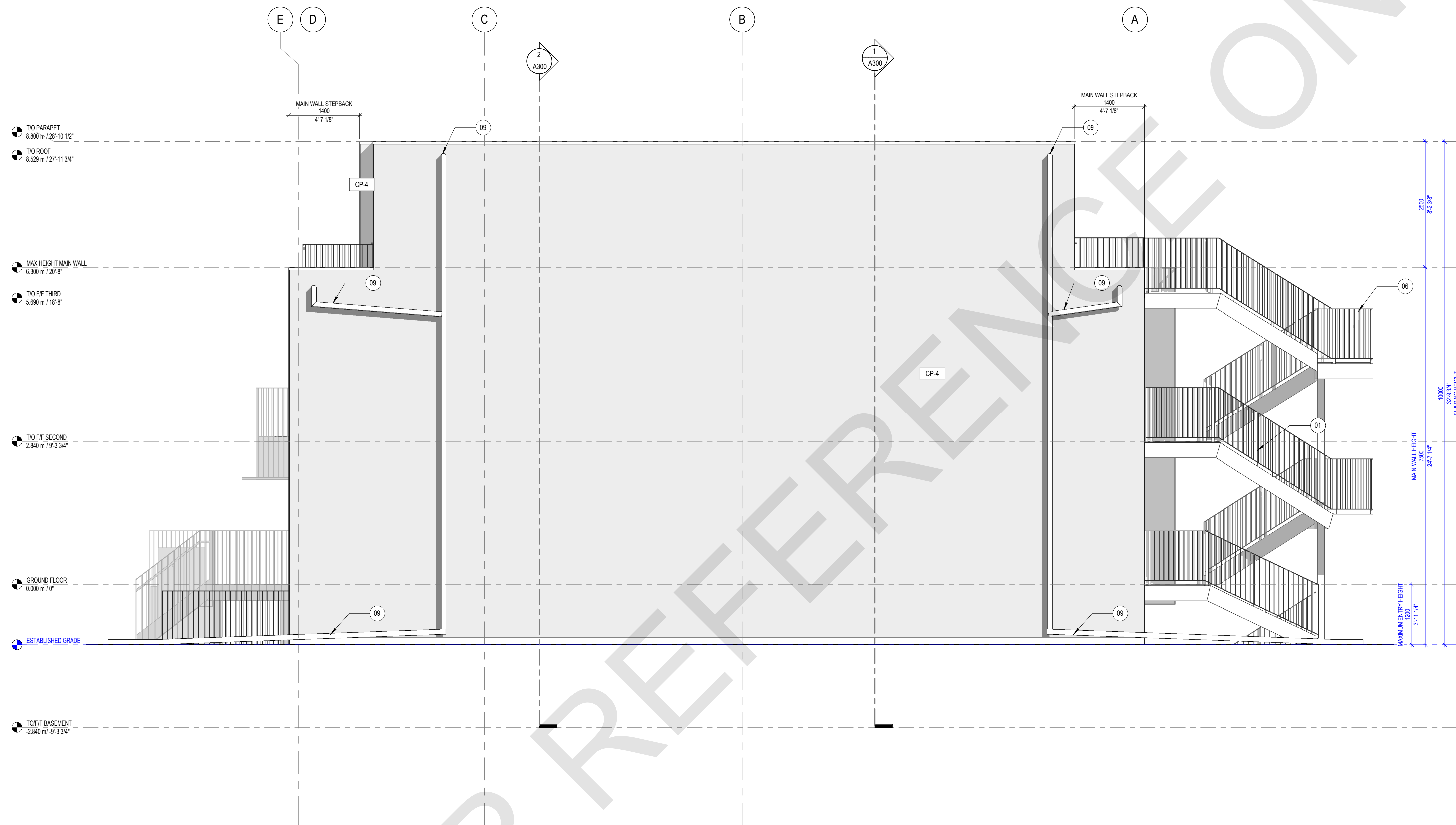
SHEET TITLE:
ELEVATIONS

PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A201

ELEVATION MATERIAL SCHEDULE	
TAG	MATERIAL
CP-3	CLADDING, TYPE 3
CP-4	CLADDING, TYPE 4
PFM	PRE-FINISHED METAL FLASHING



NO.	DATE	DESCRIPTION
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PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
ELEVATIONS

PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A202

PROFESSIONAL SEAL:

GENERAL NOTES:

- NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
- DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

- ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
- THE QDP MUST REVIEW AND UPDATE THE DESIGN ELEMENTS COLOURED IN BLUE TO CONFIRM SITE-SPECIFIC CONDITIONS AND VERIFY ASSUMPTIONS. THE QDP MUST ENSURE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS. IF ANY MODIFICATIONS TO ANY PORTION OF THE DESIGN OTHER THAN THE BLUE-HIGHLIGHTED ELEMENTS ARE MADE, THE PLANS WILL NO LONGER QUALIFY AS PRE-APPROVED, AND APPLICANTS WILL BE REQUIRED TO SUBMIT A BUILDING PERMIT APPLICATION THROUGH THE STANDARD REVIEW PROCESS.
- THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED. THIS INCLUDES APPLYING THE ARCHITECT'S OR ENGINEER'S SEAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATION AND THE AUTHORITIES HAVING JURISDICTION (AHJS). QUALIFIED DESIGN PROFESSIONALS ARE RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
- THE END USER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (AHJ).
- CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

NO. DATE DESCRIPTION

PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
SECTION

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:

A301

SECTION KEYNOTES

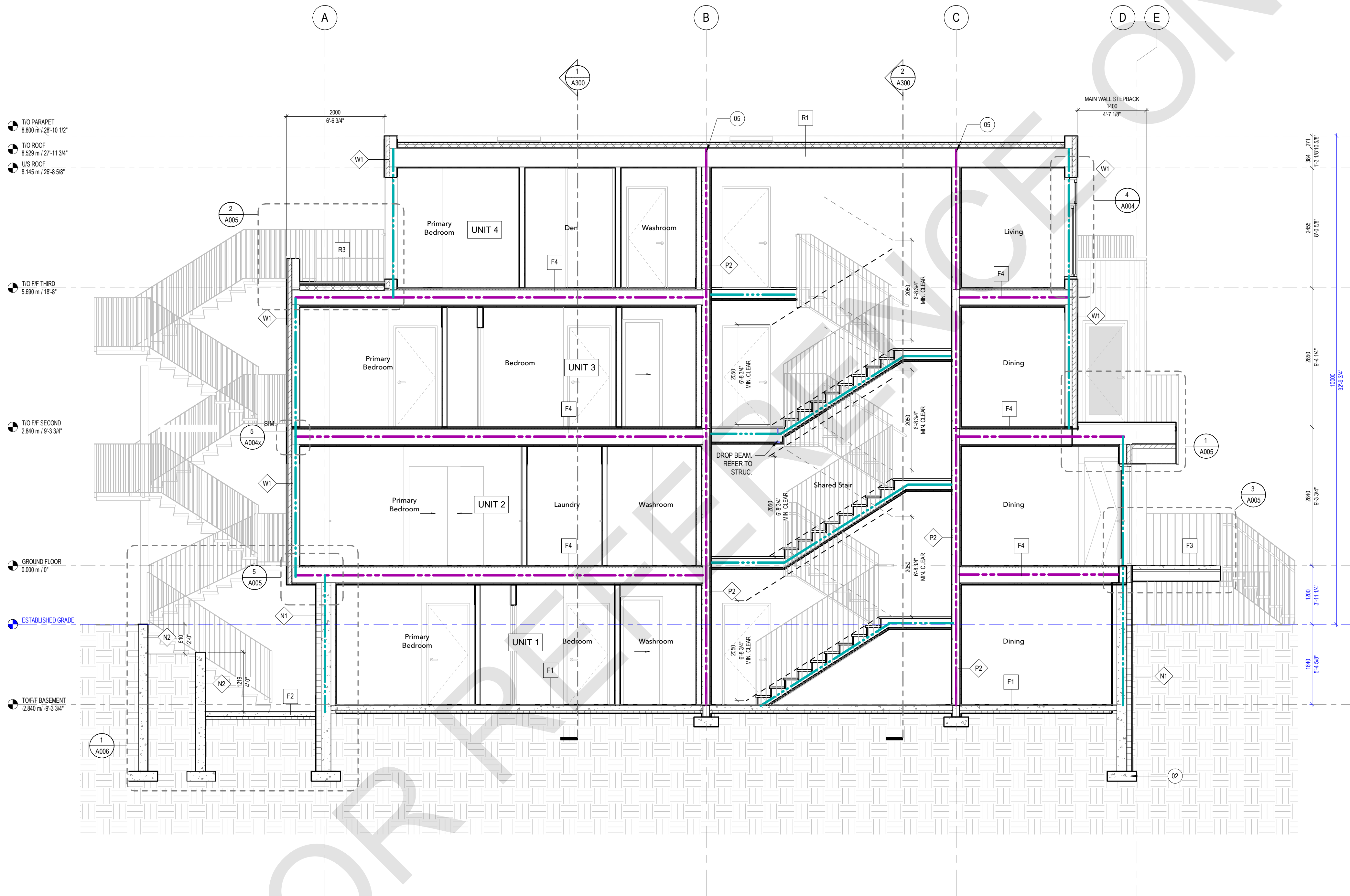
- STRUCTURAL STEEL COLUMNS REFER TO STRUCTURAL.
- ALL FOUNDATION WALLS AND FOOTING SIZES VARIES. REFER TO STRUCT.
- THICKENED SLAB. REFER TO STRUCT.
- ALL WALL AND FLOOR ASSEMBLIES AT STAIRS AND LANDINGS REQUIRED TO BE A FIRE SEPARATION SHALL BE CONSTRUCTED AS A CONTINUOUS BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE AS PER OBC 9.10.9.2. REFER TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS.
- CONTINUE FIRE SEPARATION THROUGH ROOF ASSEMBLY.

FIRE SEPARATION LEGEND (MIN. REQ.)

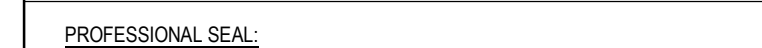
- 1HR FIRE SEPARATION
- 45MIN FIRE SEPARATION

RATED ASSEMBLIES LEGEND (MIN. REQ.)

- 1HR FRR
- 45MIN FRR



1
A301
BUILDING SECTION 3
1:50



GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

1. ALL END USER REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL, AS REQUIRED BY THE REGULATORY DESIGN PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION
2. THE QDP MUST REVIEW AND UPDATE THE DESIGN ELEMENTS COORDINATE WITH THE REGULATORY DESIGN PROFESSIONAL ASSOCIATIONS' VARIOUS ASSUMPTIONS. THE QDP MUST ENSURE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS. IF ANY MODIFICATIONS TO ANY PORTION OF THE DESIGN OTHER THAN THE QUALIFIED DESIGN ELEMENTS OF THE PLANS ARE REQUIRED, NO LONGER QUALIFY AS PRE-APPROVED, AND APPLICANTS WILL BE REQUIRED TO SUBMIT A BUILDING PERMIT APPLICATION THROUGH THE STANDARD REVIEW PROCESS.
3. THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED. THIS INCLUDES APPLYING THE ARCHITECTS OR ENGINEERS SEAL AS REQUIRED BY THE REGULATORY DESIGN PROFESSIONAL ASSOCIATION AND THE AUTHORITIES HAVING JURISDICTION (AHS). QUALIFIED DESIGN PROFESSIONALS ARE RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
4. THE END USER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION.
5. CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL, IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:
City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

SECTIONS

PROJECT NO: 241058
SCALE: 1 : 50

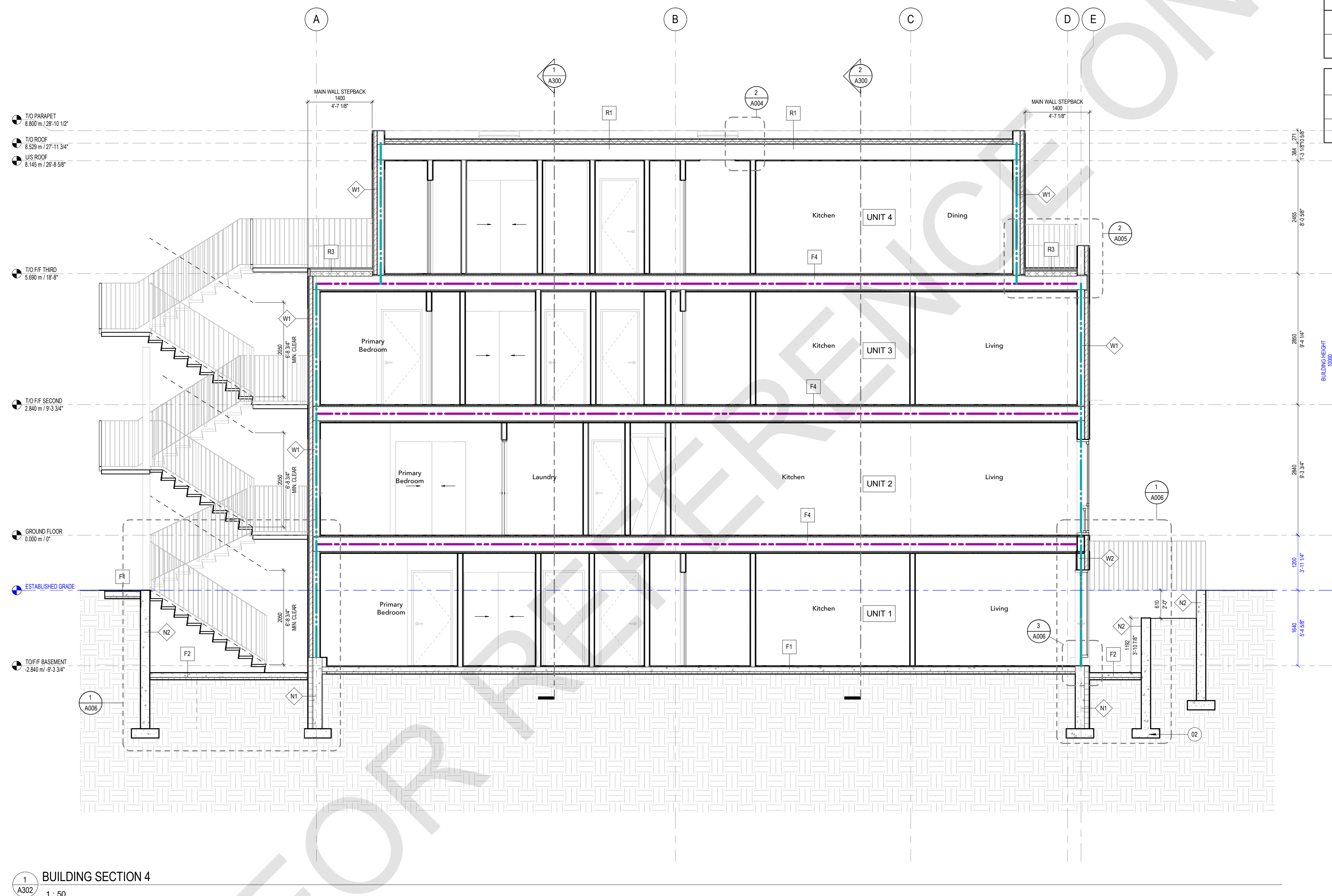
SHEET NO:
A302

SECTION KEYNOTES

- 01. STRUCTURAL STEEL COLUMNS REFER TO STRUCTURAL.
- 02. ALL FOUNDATION WALLS AND FOOTING SPECIES VARIES. REFER TO STRUCT.
- 03. THICKENED SLAB. REFER TO STRUCT.
- 04. ALL WALL AND FLOOR ASSEMBLIES AT STAIRS AND LANDINGS REQUIRED TO BE A FIRE SEPARATION SHALL BE CONSTRUCTED AS A CONTINUOUS BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE AS PER CBC 9.10.9.2. REFER TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS.
- 05. CONTINUE FIRE SEPARATION THROUGH ROOF ASSEMBLY.

FIRE SEPARATION LEGEND (MIN. REQ.)	
	1HR FIRE SEPARATION
	45MIN FIRE SEPARATION

RATED ASSEMBLIES LEGEND (MIN. REQ.)	
	1HR FRR
	45MIN FRR



1 BUILDING SECTION 4
A302 1 : 50

**CITY OF TORONTO MULTIPLEX
FOURPLEX NARROW**
STRUCTURAL DRAWINGS



PROFESSIONAL SEAL:

GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

1. ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
 2. THE QUALIFIED DESIGN PROFESSIONAL MUST REVIEW AND UPDATE THE PRE-APPROVED DESIGN DRAWINGS TO ALIGN WITH SITE CONDITIONS, VERIFY ASSUMPTIONS, MAKE ANY FINAL DESIGN SELECTIONS OR MODIFICATIONS DESIRED, AND ENSURE CODE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS.
 3. THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED. THIS INCLUDES APPLYING THE ARCHITECTS OR ENGINEERS SEAL AS REQUIRED BY THE APPLICABLE PROFESSIONAL ASSOCIATION AND THE AUTHORITY HAVING JURISDICTION (AHJ). QUALIFIED DESIGN PROFESSIONALS ARE RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THE JURISDICTION.
 4. THE ENGINEER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (AHJ).
- CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

COVER

PROJECT NO:

SCALE: N.T.S.

SHEET NO:

S-000

1. USE OF THESE STRUCTURAL DRAWINGS
 - 1.1. STRUCTURAL MEMBERS SHOWN ON THIS SET OF DRAWINGS HAVE BEEN DESIGNED TO RESIST PART 9 ENVIRONMENTAL DESIGN LOADS BASED ON WORST CASE WIND, SNOW AND SEISMIC VALUES FOR METROPOLITAN TORONTO LOCATIONS PER CBC 2024 S8-1 TABLE 2 - CLIMATIC DESIGN DATA.
 - 1.2. SIZING OF ENGINEERING LUMBER, FRAMING, STEEL ELEMENTS, COLD FORMED STEEL FRAMING, REINFORCED CONCRETE FOUNDATION WALLS AND FOOTINGS HAS BEEN CALCULATED IN ACCORDANCE WITH PART 4 OF THE CBC WHERE DESIGN REQUIREMENTS EXCEED THE LIMITS OF PART 9.
 - 1.3. LATERAL RESISTING ELEMENTS AND CONNECTIONS ARE PROVIDED BY BRACED WALL BANDS AND PANELS CALCULATED IN ACCORDANCE WITH CBC 9.2.3.1.4 AND WHERE ARCHITECTURAL DESIGN IMPERATIVES EXCEED THE LIMITS OF PART 9, SHEAR WALLS AND LATERAL RESISTING ELEMENTS WERE DESIGNED IN ACCORDANCE WITH PART 4 OF THE CBC USING LOADS GENERATED USING PART 4.
 - 1.4. ANY CHANGES TO FLOOR LAYOUT, ASSEMBLIES, MATERIALS, CONNECTIONS AND /OR LOCATION OF THE BUILDING OUTSIDE OF METROPOLITAN TORONTO (2026 BOUNDARIES) MUST BE CARRIED OUT BY A STRUCTURAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
 - 1.5. FOUNDATION ELEMENTS HAVE BEEN DESIGNED USING AN ALLOWABLE SOIL BEARING VALUE OF 75 kPa.
 - 1.6. THE OWNER MUST CONFIRM THIS MINIMUM BEARING VALUE BY GEOTECHNICAL INVESTIGATION OR BY MEANS THAT IS IN ACCORDANCE WITH CBC 9.4 AND APPROVED BY THE CITY OF TORONTO'S CBO (CITY BUILDING OFFICIAL).
 - 1.7. THE OWNER MUST CONFIRM THE SOIL BEARING VALUE TO OPTIMIZE FOOTING SIZES SHOWN ON THESE DRAWINGS MUST BE BASED ON FINDINGS AND RECOMMENDATIONS MADE BY A GEOTECHNICAL INVESTIGATION AND DESIGN REVISIONS CARRIED OUT BY A STRUCTURAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
 - 1.8. THE OWNER MUST CONFIRM THE PROPOSED CONSTRUCTION THAT PROPOSED EXCAVATIONS AND CONSTRUCTION OF FOUNDATIONS OR OTHER BUILDING ELEMENTS WILL BE ABOVE OR BELOW A 7.10° ANGLE OF REPOSE TO ADJACENT BUILDING FOUNDATIONS, CONSTRUCTING WITHIN THIS ANGLE OF REPOSE REQUIRES FOUNDATIONS TO BE DESIGNED AND REVIEWED ON SITE BY A PROFESSION ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
2. LOADS USED IN THE DESIGN:
 - 2.1. SNOW: 1.08 kPa
 - 2.2. LIVE: 1.9 kPa (RESIDENTIAL OCCUPANCY AND 4.8 kPa COMMON AND EGRESS AREAS.
 - 2.3. DEAD: 1.0 kPa (ROOF) and 1.7 kPa (FLOORS) and 0.7 kPa (EXTERIOR WALLS).
 - 2.4. WIND: 0.83 kPa ULS and 0.63 kPa SLS FOR PART 4 SHEAR WALLS AND MOMENT RESISTING COLUMNS.
 - 2.5. INTERNAL WIND PRESSURE: 0.5 kPa
3. SUBMITTALS:
 - 3.1. SHOP DRAWINGS DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO OR SUPPLIER APPROVED BY THE CITY BUILDING OFFICIAL OF THE CITY OF TORONTO ARE REQUIRED FOR REVIEW AND APPROVAL BY THE PROJECT DESIGN PROFESSIONAL OF THE FOLLOWING ELEMENTS:
 - 3.2. ENGINEERING LUMBER ROOF AND FLOOR FRAMING FOR GRAVITY LOADS SHOWN ON THESE DRAWINGS.
 - 3.3. COLD FORMED STEEL (CFS) BEARING WALLS FOR GRAVITY, WIND, AND LATERAL FORCES SHOWN ON THESE DRAWING.
 - 3.4. MISCELLANEOUS METALS ITEMS SUCH AS EXTERIOR ENTRY STAIRS, EXTERIOR EGRESS STAIRS, GUARD RAILS AND OTHER METAL ELEMENTS SUPPORTING LIVE, SNOW OR WIND LOADS.
 - 3.5. GEOTECHNICAL ENGINEERING REPORTS AS REQUIRED.
 - 3.6. CONFIRMATION THAT BUILDING FOUNDATIONS, SHORING AND EXCAVATIONS DO NOT EXCEED ON SAFE ANGLE OF REPOSE TO ADJACENT BUILDING OR STRUCTURE FOUNDATIONS.
 - 3.7. RESERVED.
 - 3.2. GENERAL
 - 4.1. CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE 2024, O.R.G. 163/24 AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION.
 - 4.2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
 - 4.3. BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT DISCREPANCIES TO THE APPROVED DESIGN PROFESSIONAL. DO NOT SCALE THE DRAWINGS.
 - 4.4. THE ARCHITECT, THE CONTRACTOR AND OTHER DRAWINGS FOR LOCATIONS AND DIMENSIONING OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS, ASSUME TYPICAL DETAILS APPLY, HOWEVER, OBTAIN THE APPROVED DESIGN PROFESSIONAL'S PRIOR APPROVAL BEFORE INSTALLING OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
 - 4.5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF FITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS, ADJUST UNDERSIDE ELEVATIONS OF FOOTINGS AS REQUIRED TO AVOID UNDERMINING THE FOOTINGS AND FOUNDATIONS.
 - 4.6. HORIZONTAL AND VERTICAL DIMENSIONS SHALL BE IN ACCORDANCE WITH CSA STANDARD 006.
 - 4.7. TYPICAL STRUCTURAL DETAILS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON THE DRAWINGS, THE MOST STRINGENT SHALL GOVERN.
 - 4.8. CONTRACTOR TO PROVIDE AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY WORKS.
 - 4.9. THE INFORMATION SHOWN ON STRUCTURAL DRAWINGS REPRESENT THE BUILDING IN ITS FINISHED STATE. CONTRACTOR TO REVIEW THESE REQUIREMENTS AND DETERMINE ALL TEMPORARY WORKS REQUIRED TO COMPLETE THE STRUCTURE PER CONCRETE DOCUMENTS INCLUDING MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, TEMPORARY SHORING AND/OR BRACING, TEMPORARY OPENINGS, EXCAVATION SHORING, ERECTION PROCEDURES, ETC.
5. DESIGN NOTES
 - 5.1. THE BUILDING IS DESIGNATED AS BELONGING TO THE NORMAL IMPORTANCE CATEGORY, AS DEFINED IN THE CBC 2024.
 - 5.2. ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD A23.3.
 - 5.3. ALL STRUCTURAL TIMBER ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD 086.
 - 5.4. LATERAL FORCES ON STRUCTURAL FRAME
 - 5.5. THE LATERAL FORCES ARE RESISTED BY BRACED WALLS AS PER 9.2.3.1.2.(2)(a) OF THE CBC 2024. WOOD SHEAR WALLS, CFS BRACED FRAMES, AND MOMENT RESISTING BEAM COLUMNS.
 - 5.6. THE FRAME IS NOT STABLE UNTIL THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
 - 5.3. WIND:
 - 5.3.1. THE DESIGN OF THE STRUCTURE FOR WIND IS BASED ON AN HOURLY WIND PRESSURE OF 0.47 kPa (BASED ON 150 YEAR RETURN FOR SCARBOROUGH).
 - 5.3.2. EXPOSURE CONDITION: ROUGH TERRAIN.
 - 5.3.3. THE IMPORTANCE FACTOR, I_s , IS 1.0 FOR DESIGN IS 1.0. FOR DEFLECTION ANALYSIS, THE FACTOR IS 0.75.
 - 5.3.4. WHERE CBC 9.2.3.1.1 WAS NOT APPLICABLE THE DESIGN WIND FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2024 AND WITH THE "STATIC" PROCEDURE DESCRIBED IN THE USER'S GUIDE - NBC 2020 - STRUCTURAL COMMENTARIES (PART 4).
 - 5.4. LATERAL FORCES ON FOUNDATION WALLS
 - 5.5.1. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND A HORIZONTAL PRESSURE AT ANY DEPTH (h) GIVEN BY THE EXPRESSION:
$$P = K \cdot (h + a) \cdot \frac{1}{2}$$
WHERE:
 - K IS THE LATERAL EARTH PRESSURE COEFFICIENT
 - P IS THE PRESSURE EXERTED HORIZONTALLY
 - h IS THE DEPTH BELOW GRADE
 - v IS THE UNIT WEIGHT OF SOIL
 - a IS THE SURCHARGE ON THE GROUND SURFACE
 - 5.5.2. THE WALLS ARE NOT BEING DESIGNED AGAINST EARTH WHERE THERE IS FREE-DRAINAGE BACKFILL, OR THAT OTHER PROVISIONS HAVE BEEN MADE SUCH THAT THE WALLS ARE NOT SUBJECT TO HYDROSTATIC PRESSURE.
 - 5.1.3. IN ACCORDANCE WITH CBC C18.4.4.6, THE WALLS HAVE BEEN DESIGNED USING $K=0.83$ AND $\gamma=21 \text{ kN/m}^3$.
 - 5.2. SNOW LOADS ON ROOFS
 - 5.2.1. THE ROOFS HAVE BEEN DESIGNED WITH $S_e = 1.2 \text{ kPa}$ AND $S_r = 0.4 \text{ kPa}$.
 - 5.2.2. THE IMPORTANCE FACTOR, I_s , IS 1.0 FOR ULS AND 0.9 FOR SLS.
 - 5.2. LIVE AND OTHER LOADS
 - 5.2.1. SEE NOTES BELOW FLOOR PLANS.
 - 5.2.2. IN THE DESIGN OF COLUMNS, WALLS, BEAMS, FLAT SLABS ETC, THE INDICATED LIVE LOADS HAVE NOT BEEN REDUCED AS PER TRIBUTARY AREA CONSIDERATIONS OF THE ONTARIO BUILDING CODE.
 - 5.2. FUTURE EXTENSIONS
 - 5.2.1. THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSIONS.
6. CONCRETE
 - 6.1. MATERIALS
 - 6.1.1. CONCRETE
 - 6.1.1.1. CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS RATIO AND AIR CONTENT:
 - 6.1.1.2. FOR NORMALLY UNREINFORCED CONCRETE, CONFORM TO THE REQUIREMENTS OF CSA STANDARD A438 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS RATIO AND AIR CONTENT, INCLUDING THE FOLLOWING:
 - 6.1.1.2.1. CONCRETE STRENGTH 20 MPa, INCREASE TO:
 - 6.1.1.2.2. 32 MPa FOR GARAGE FLOORS, CARPORT FLOORS AND ALL EXTERIOR FLATWORK.
 - 6.1.1.2.3. 25 MPa FOR INTERIOR SLABS ON GRADE, UNLESS DAMP PROOFING IS PROVIDED (0.15 mm POLYETHYLENE BELOW THE SLAB OR EQUAL).
 - 6.1.1.2.4. AIR CONTENT OF 4% WHERE EXPOSED TO FREEZE-THAW, REDUCE TO 3%-4% FOR FOOTINGS.
 - 6.1.1.2.5. MAXIMUM SLUMP OF 100 mm, INCREASE TO 150mm FOR CONVENTIONAL FOUNDATIONS.
 - 6.1.1.3. NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 20 mm. USE SMALLER AGGREGATES AS APPROPRIATE IN AREAS OF CONCRETE IN CONTACT WITH STEEL OR TO IMPROVE WORKABILITY. MODIFY MIX DESIGNS TO SUIT.
 - 6.1.1.3.1. WHERE AGGREGATES SMALLER THAN 14 mm ARE USED, INCREASE AIR CONTENT BY 1%.
 - 6.1.1.3.2. REINFORCED CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE DCl CORROSION INHIBITOR @ 111cc/m.
 - 6.1.1.3.3. DOSAGE OR APPROVED EQUIVALENT
 - 6.1.1.3.3. MAX. 25kg CEMENT/m³
 - 6.1.2. REINFORCEMENT
 - 6.1.2.1. CONFORM TO THE REQUIREMENTS OF CSA G30.18 FOR CARBON STEEL REINFORCING BARS
 - 6.1.2.2. CONFORM TO THE REQUIREMENTS OF ASTM A1064/A1064M FOR WELDED WIRE FABRIC.
 - 6.1.2.3. REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 400 \text{ MPa}$, AND WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 398 \text{ MPa}$. SUPPLY IN FLAT SHEETS.
 - 6.1.2.4. WHERE WELDING OF REBAR IS INDICATED, WELDABLE GRADE REBAR SHALL BE USED.
- 6.2. EXECUTION
 - 6.2.1. CONCRETE AND REINFORCEMENT
 - 6.2.1.1. PROVIDE REBAR AND COLUMNS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN EXCEPT WHEN NOTED OTHERWISE.
 - 6.2.1.2. CONSTRUCTION JOINTS:
 - 6.2.1.2.1. VERTICALLY CONSTRUCTION JOINTS MAY BE MADE ONLY AT MID-SPAN OF BEAMS, JOISTS, AND SLABS UNLESS OTHERWISE SHOWN OR DIRECTED AND THEIR LOCATION SHALL BE REVIEWED BY THE CONSULTANT.
 - 6.2.1.2.2. PROVIDE 360° KEYS AT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
 - 6.2.1.2.3. NO SLEEVES TO BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS WITHOUT BEING REVIEWED BY THE CONSULTANT.
 - 6.2.1.2.4. WELDING OF REBAR SHALL BE DONE IN ACCORDANCE WITH CSA W186.
 - 6.2.2. CONCRETE COVER TO REINFORCEMENT:
 - 6.2.2.1. CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) FOR COVER TO REINFORCEMENT.
 - 6.2.

WELDS - CONFORM WITH CSA W59-03

7.1.4. ANCHOR RODS - CONFORM TO THE REQUIREMENTS OF CSA 402.1 GRADE 300W UNLESS NOTED OTHERWISE.

7.1.5. ALL OTHER - CONFORM TO THE REQUIREMENTS OF CSA 402.1 GRADE 300W

7.1.6. NOMINAL GRADE PAINT PROTECTION: IN ACCORDANCE WITH CISC/CPMA 1-73a - A QUICK-DRYING ONE COAT PAINT FOR USE ON STRUCTURAL STEEL.

7.2. EXECUTION

7.2.1. PROVIDE A MINIMUM BEARING OF 200 mm FOR ALL STEEL BEAMS BEARING ON MASONRY AND A MINIMUM OF 100 mm ON STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.

7.2.2. CENTRE BEARING PLATES UNDER BEAM, OR AS NOTED.

7.2.3. BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB.

7.2.4. NO STRUCTURAL STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE APPROVED DESIGN PROFESSIONAL.

7.2.5. PROVIDE FULL HEIGHT WEB STIFFENERS AT ALL BEAMS BEARING ON COLUMNS AND ALL BEAMS SUPPORTING COLUMNS. WEB STIFFENERS SHALL BE OF THE SAME SIZE AND THICKNESS AS THE COLUMN FLANGES AND SHALL ALIGN WITH THE FLANGES OF THE SUPPORTING COLUMN.

7.2.6. CONNECT BEAMS FOR THE FACTORED REACTIONS INDICATED ON THE DRAWINGS. IF BEAM REACTIONS ARE NOT PROVIDED, THE CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE SIMPLE SPAN BEAM FOR THE GIVEN SPAN PRESENTED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS.

7.2.7. STEEL SUPPORT MEMBERS SHALL BE INTERCONNECTED TO PROVIDE THE INTERCONNECTION BETWEEN BUILT UP MEMBERS AS NOTED. WHERE NOT NOTED, STEEL SUPPLIER IS TO INTERCONNECT AS REQUIRED TO ENSURE ADEQUATE CAPACITY FOR THE DESIGN FORCES SHOWN OR IMPLIED IN THE DRAWINGS.

7.2.8. STEEL SUPPLIER SHALL DESIGN CONNECTIONS OF SINGLE ANGLE MEMBERS FOR THE FORCES SHOWN OR IMPLIED IN THE DRAWINGS, SUCH THAT CONNECTIONS ARE MADE TO THE SAME LEG EACH END BY WELDING OR WITH A MINIMUM OF TWO BOLTS.

7.2.9. ALL STRUCTURAL STEEL LOCATED OUTSIDE OF THE BUILDING ENVELOPE OR EXPOSED TO HIGH HUMIDITY OR MOISTURE SHALL BE FULLY GALVANIZED IN ACCORDANCE WITH CSA G164.

7.2.9.1. WHERE GALVANIZING IS DAMAGED, THE COATING SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780/A708M.

7.2.9.2. PROVIDE 2 COATS OF BITUMINOUS COATING TO ALL STEEL EXTENDING BELOW GRADE, INCLUDING IF STEEL IS ENCASED IN CONCRETE.

8. LIGHTWEIGHT STEEL FRAMING SYSTEM

8.1. MATERIALS

8.1.1. CONFORM TO THE REQUIREMENTS OF CSA-5136.

8.1.2. SHEET PILING SHALL MEET REQUIREMENTS OF CSA-5136 WITH A MINIMUM YIELD STRENGTH OF 228 MPa FOR MATERIAL. E-12mm THICK AND THIRTY AND 345 MPa FOR MATERIAL. 1.44mm AND THICKER.

8.1.3. USE METALLIC COATINGS CONFORMING TO ASTM-A653/A653M AND THE FOLLOWING:

8.1.3.1. MINIMUM COATING OF Z180 GALVATING IN ACCORDANCE WITH ASTM-A653/A653M FOR EXTERIOR BUILDING

8.1.3.2. ENVELOPE

8.1.3.3. MINIMUM Z275 GALVANIZED COATING FOR STEEL STUD/BUCK VENEER ASSEMBLIES.

8.1.4. BOLTS, NUTS AND WASHERS - ASTM A307 OR ASTM F3125, HOT-DIP GALVANIZED WHERE EXPOSED TO CORROSION

8.1.5. SHEET METAL SCREWS AND CONCRETE ANCHORS - MINIMUM 0.08mm COATING OF ZINC.

8.1.6. USE ZINC RICH PAINT CONFORMING TO CANCG58-1.181 FOR TOUCHING UP WELDS AND DAMAGED METALLIC COATING.

8.1.7. MINIMUM PLATE THICKNESS SHALL BE AS FOLLOWS:

8.1.7.1. MEMBER DEPTH 152mm OR LESS - 0.87mm

8.1.7.2. MEMBER DEPTH 203mm - 1.146mm

8.1.7.3. MEMBER DEPTH 254mm - 1.438mm

8.1.7.4. MEMBER DEPTH 305mm OR MORE - 1.818mm

8.1.7.5. BRIDGING CHANNELS - 1.087mm FOR STUDS, 1.367mm FOR JOISTS

8.1.7.6. CLIP ANGLES - 1.367mm FOR STUDS, 1.720mm FOR JOISTS

8.1.7.7. TRACK, CLIP ANGLES AND THE LIKE ARE TO BE AT LEAST THE SAME THICKNESS AS THE STUD OR JOIST.

8.2. DESIGN AND EXECUTION

8.2.1. DESIGN ALL FRAMING, INCLUDING CONNECTIONS, BRIDGING, TRACKS, CLOSURE CHANNELS, WEB STIFFENERS, WEB OUT-LETS, SHEAR WALL CROSS BRACING, AND THE LIKE FOR THE LOADINGS AND FORCES SHOWN OR IMPLIED ON THE DRAWINGS. THE DESIGN AND REVIEW SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

8.2.2. DESIGN WIND-BEARING EXTERIOR STUDS TO RESIST THE SPECIFIED WIND LOAD BUT NOT LESS THAN 1.0 kPa. DESIGN LOAD-BEARING EXTERIOR STUDS TO RESIST THE SPECIFIED WIND LOAD BUT NOT LESS THAN 1.25 kPa.

8.2.3. DESIGN EXTERIOR STUDS SUCH THAT THE DEFLECTION UNDER S.W. WIND LOAD DOES NOT EXCEED 1/360 OF THE SPAN OF THE STUD.

8.2.4. FABRICATE STUDS IN SUCH A WAY THAT THERE IS AT LEAST 300mm FROM THE END OF THE MEMBER TO THE CENTRE OF THE STUD.

8.2.5. PROVIDE HORIZONTAL BRIDGING SPACED AT NOT MORE THAN 1200mm FOR STUDS.

8.2.6. THE FIRST REPAIR IN THE MEMBER SHALL BE THE RESPONSIBILITY OF THE SUBMITTER.

8.2.7. PERFORM FIELD REVIEW FOR THE ABOVE, AND SUBMIT FIELD REVIEW REPORTS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

8.2.8. SUBMIT SHOP AND ERECTION DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO FOR REVIEW BY THE CONSULTANT.

8.2.9. ALL REQUIRED CALCULATIONS AND CALCULATIONS BEARING THE SIGNATURE AND SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

8.2.10. NO STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE APPROVED DESIGN PROFESSIONAL.

8.2.11. PROVIDE OUT-LETS CENTRED IN WEBS OF MEMBERS TO ACCOMMODATE SERVICES WHERE REQUIRED FOR MECHANICAL AND ELECTRICAL.

8.2.12. PROVIDE FRAMING AROUND ALL OPENINGS GREATER THAN 100mm. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

9. 060000 WOOD

9.1. MATERIALS

9.1.1. SAWN LUMBER

9.1.1.1. CONFORM TO THE REQUIREMENTS OF CSA-O141

9.1.1.2. SPECIES - SPRUCE-PIKE-FIR

9.1.1.3. GRADE - No.1/mc2

9.1.1.4. ALL WOOD EXPOSED TO WEATHER AND EARTH TO BE PRESSURE TREATED IN ACCORDANCE WITH CSA 080.

9.1.2. PLYWOOD SHEATHING

9.1.2.1. CONFORM TO THE REQUIREMENTS OF CSA O121 AND CSA O151

9.1.2.2. FLOOR AND ROOF SHEATHING TO BE TONGUE AND GROOVE.

9.1.3. WOOD JOISTS

9.1.3.1. JOISTS MUST MEET OR EXCEED THE DESIGN REQUIREMENTS SHOWN ON THE STRUCTURAL DRAWINGS AND BE IN CONFORMANCE WITH CSA 086 AND 0325

9.1.3.2. LAMINATED VENEER LUMBER (LVL)

9.1.4.1. MUST MEET OR EXCEED THE DESIGN REQUIREMENTS SHOWN ON THE STRUCTURAL DRAWINGS, BE IN CONFORMANCE WITH CSA 086

9.1.4.2. BENDING MEMBERS PROPERTIES - E = 2.0x10⁶ psi, Fb = 4,805 psi

9.1.5. LAMINATED STRAND LUMBER (LSL)

9.1.4.1.1. MUST MEET OR EXCEED THE DESIGN REQUIREMENTS SHOWN ON THE STRUCTURAL DRAWINGS, BE IN CONFORMANCE WITH CSA 086

9.1.4.2. BENDING MEMBERS PROPERTIES - E = 1.3x10⁶ psi, Fb = 3,140 psi OR E = 1.55x10⁶ psi, Fb = 4,295 psi

9.1.4.3. COMPRESSION MEMBERS PROPERTIES - E = 1.3x10⁶ psi, Fb = 3,140 psi, FcII = 2,235 psi

9.2. CONNECTIONS

9.2.1. ALL WOOD TO WOOD CONNECTIONS OR WOOD TO STEEL CONNECTIONS, UNLESS OTHERWISE NOTED, ARE TO BE THE APPROPRIATE FACE OR TOP MOUNT HANGERS, SIZED FOR THE CONNECTION FORCE AND MEMBER CONFIGURATION INDICATED.

9.2.2. NAILS ARE TO BE COMMON STEEL WIRE NAILS CONFORMING TO THE REQUIREMENTS OF ASTM F1667 OR CSA B111. NAILS SHALL HAVE A MINIMUM DIAMETER (CORRESPONDING TO NAIL LENGTH) AS FOLLOWS: 2.87mm (FOR 57mm/2'-14" LONG) PLUS 0.325mm (94mm/3'-10" LONG); 3.68mm (76mm/3'-4" LONG) AND 82mm/3'-14" (LONG) (102mm/3'-4" LONG).

9.2.1.2. SUBSTITUTION OF THE ABOVE SPECIFIED NAIL DIAMETERS IS SUBJECT TO APPROVAL BY THE ENGINEER. FOR PART 9 BUILDINGS, NAIL SUBSTITUTION MAY BE PERFORMED IN ACCORDANCE WITH CL. A5.23.3.1.(2) IN THE APPENDIX OF CAN 2002.

9.2.3. WOOD SCREWS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM B18.6-1. REFER TO CSA 086 FOR DIAMETER AND MINIMUM YIELD STRENGTH INFORMATION.

9.2.4. ALL NAILS AND SCREWS FOR ROOF OR WALL APPLICATION OR USED WITH PRESERVATIVE TREATED WOOD SHALL BE APPROPRIATELY COATED WITH A PROTECTIVE COATING COMPATIBLE WITH THE WOOD PRESERVATIVE TREATMENT.

9.2.5. BOLTS, NUTS AND WASHERS: ASTM A307 OR A52 J429 GRADE 2.

9.2.6. LAG SCREWS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM B182.1

9.2.7. ALL LAG BOLTS, THRU BOLTS AND OTHER HARDWARE TO BE HOT DIPPED GALVANIZED

9.2.8. ALL LAG BOLTS SHALL HAVE SHARP THREADS FOR AT LEAST ONE-HALF THE TOTAL BOLT LENGTH. UP TO 162 mm (6") THREADED LENGTH. LAG BOLT WITH DULL THREADS OR INSUFFICIENT THREADED LENGTH WILL BE REJECTED OUTRIGHT, UNLESS OTHERWISE APPROVED BY THE APPROVED DESIGN PROFESSIONAL. ALL NAILS ARE TO HAVE FULL ROUND HEADS; CLIPPED HEAD NAILS ARE NOT ACCEPTABLE. NAILS ARE TO BE DRIVEN FLUSH; DO NOT OVERDRIVE NAILS.

9.2.9. HOLD DOWNS SHALL BE INSTALLED IN DOUBLE STUDS AT THE END OF THE SHEARWALL UNLESS NOTED OTHERWISE. PLUGS OF THE HOLD DOWNS LOCATED INWARD FROM THE WALL END DUE TO FIELD CONDITIONS, THE SHEATHING SHALL BE NAILED TO THE DOUBLE STUDS CARRYING THE HOLD DOWN WITH EDGE NAIL SPACING.

9.3. EXECUTION

9.3.1. PROTECT ALL WOOD PRODUCTS FROM DAMAGE AND STAINING DUE TO WETTING AND MOISTURE.

9.3.2. PROTECT ALL WOOD OF MAXIMAL THICKNESS FROM EXCESSIVE MOISTURE UNTIL FINAL WATERPROOFING IS COMPLETE. ENSURE SURFACES THAT ARE TO RECEIVE FINISHES MEET MANUFACTURERS REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT FOR THE FINISH SPECIFIED.

9.3.3. DIMENSION LUMBER WITH SMALLER NOMINAL DIMENSION OF 2 INCHES (2"BY -) PRESERVATIVE TREATED FOR EXTERIOR CAN OPTION BUT A MINIMUM OF 1200 mm BELOW FINISHED GRADE IF NOT NOTED TO BE FOUND LOWER.

9.3.4. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 1" IN A RUN OF 10". AT STEPS CONSTRUCT LOWER FOOTINGS PRIOR TO CONSTRUCTING HIGHER FOOTINGS.

9.3.5. PLUGS OF HOLD DOWNS ON MATERIAL CAPABLE OF SAFELY SUSTAINING 24 kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.

9.3.6. BEFORE PLACING SLAB, PLACE 100mm OF COARSE, CLEAN GRANULAR MATERIAL OVER THE SUB-GRADE, CONTAINING NOT MORE THAN 1% OF MATERIAL THAT WILL PASS A 4mm SIEVE.

9.3.7. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) UNTIL THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALLS IS POURED AND HAS ATTAINED 70% OF ITS SPECIFIED STRENGTH.

9.3.8. CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 500 mm DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL.

10. FOUNDATIONS

10.1. FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED UNDISTURBED SOIL. CAPABLE OF SAFELY SUSTAINING AN ULTIMATE BEARING VALUE OF 125 kPa AND AN ALLOWABLE BEARING VALUE OF 75 kPa.

10.2. FOUND FOOTINGS EXPOSED TO FREEZING BELOW THE LEVEL AT WHICH POTENTIAL DAMAGE RESULTING FROM FROST ACTION CAN OCCUR, BUT A MINIMUM OF 1200 mm BELOW FINISHED GRADE IF NOT NOTED TO BE FOUND LOWER.

10.3. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 1" IN A RUN OF 10". AT STEPS CONSTRUCT LOWER FOOTINGS PRIOR TO CONSTRUCTING HIGHER

ABBREVIATIONS

TD0001

Ⓐ	= AT	DS	= DRAG STRUT
A.BOLT	= ANCHOR BOLT	DWG(S)	= DRAWING(S)
ADJ	= ADJUSTABLE	DWL(S)	= DOWEL(S)
ALT	= ALTERNATE	EA	= EACH
ARCH	= ARCHITECTURAL	EF	= EACH FACE
ASL	= ACCUMULATED SNOW LOAD	EW	= EACH WAY
B	= BOTTOM	EL	= ELEVATION
BEW	= BOTTOM EACH WAY	ELEC	= ELECTRICAL
BUL	= BOTTOM LOWER LAYER	ELEV	= ELEVATOR
BUL	= BOTTOM UPPER LAYER	E-W	= EAST-WEST
BLDG	= BUILDING	EQ	= EQUAL
BM	= BEAM	EXIST	= EXISTING
BPL, BSPL	= BASE OR BEARING PLATE	EXPJT	= EXPANSION JOINT
BSMT	= BASEMENT	EXT	= EXTERIOR
c/c, c/c	= CENTRE TO CENTRE	FF	= FAR
c/w	= COMPLETE WITH	FDN	= FOUNDATION
C, PL, AL	= EPOXY COATED	FIN	= FINISHED
	= FACTORED COMPRESSION OR AXIAL FORCE, KN	FL	= FLOOR
CANT	= CANTILEVER	FTG	= FOOTING
CFW	= COLD-FORMED STUD WALL	FW	= FOUNDATION WALL
CA	= COLUMN ABOVE	fc	= CONCRETE STRENGTH, MPa
CB	= COLUMN BELOW	GA	= GAUGE
CDL	= COMPRESSION DEVELOPMENT LENGTH, mm	GLV	= GALVANIZED
CIF	= CONFIRM IN FIELD	GEN	= GENERAL
CJ	= CONSTRUCTION JOINT	GL	= GLULAM
CLS	= COMPRESSION LAP SPlice, mm	H, HOR	= HORIZONTAL
CLT	= CROSS LAMINATED TIMBER	HDB	= HOT DIP GALVANIZED
CLTW	= CROSS LAMINATED TIMBER WALL	HEF, H EF	= HORIZONTAL EACH FACE
COL	= COLUMN	HEE	= HOOKED EACH END
COMP	= COMPRESSION	HFE	= FACTORED HOR FORCE, KN
CONC	= CONCRETE	HSC	= HORIZONTALLY SLOTTED CONNECTION
CONSTR	= CONSTRUCTION	IF	= INSIDE FACE
CONT	= CONTINUOUS	INT	= INTERIOR
CW	= CONCRETE WALL	J	= JOINT
DET	= DETAIL	KN	= KILONEWTON
DEV	= DEVELOPMENT	kg	= KILOGRAM
DIAG	= DIAGONAL	kNm	= KILONEWTON METRES
DIA, Ø	= (BAR) DIAMETER	kN/m ²	= KN PER SQUARE METRE
DM	= DIMENSION	kNm	= KN PER METRE
DJ	= DOUBLE JOINT	kPa	= KILOPASCAL
DL	= DEAD LOAD		
DLH	= DEVELOPMENT LENGTH FOR STANDARD HOOKS, mm		
DO	= DITTO		

FOOTING ADJACENT TO EXCAVATION

TD3101

ADJUST FOOTING ELEVATIONS SHOWN ON DRAWINGS IF NECESSARY TO MAINTAIN THE MAX. 7 TO 10 SLOPE BETWEEN FOOTINGS AND ADJACENT EXCAVATIONS FOR DRAINS OR OTHER ITEMS

RELATION TO ADJACENT FOOTINGS AND EXCAVATIONS

RELATION TO SERVICES

NOTES:

- WHERE MECH SERVICES UNDERMINE PAD FOOTINGS, EXTEND EXCAVATION BELOW SLOPE OF REPOSE AND RAISE GRADE WITH EITHER LEAN MIX, ENGINEERED FILL (IF APPLICABLE) OR OVERPOUR FOOTING.
- DO NOT PLACE SERVICE PIPES UNDER PAD FOOTINGS.
- THE PROVISIONS NOTED ABOVE REGARDING THE PERMISSIBLE SOIL SLOPES ARE BASED ON THE STRUCTURAL REQUIREMENTS ONLY. CONTRACTORS ARE RESPONSIBLE FOR FOLLOWING ALL MINISTRY OF LABOUR REQUIREMENTS RELATED TO EXCAVATIONS AND TRENCHING.

SUMP PITS AND TRENCHES

TD0322

SUMP PIT NOTES:

- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUMP PIT LOCATIONS.
- WHERE SUMP PITS UNDERMINE STRIP OR PAD FOOTINGS, LOWER THE US OF FOOTINGS ELEVATIONS FROM THOSE SHOWN ON PLAN AS PER TD3101.
- THE SUMP PITS DO NOT HAVE TO BE CAST IN PLACE REINFORCED CONCRETE. REFER TO MECHANICAL SPECIFICATIONS FOR REQUIREMENTS.

ABBREVIATIONS

TD0018

LL	= LIVE LOAD
LG	= LONG
LLV	= LONG LEG VERTICAL
LLH	= LONG LEG HORIZONTAL
LW	= LIGHT-WOOD WALL
MC, ►	= MOMENT CONNECTION
MECH	= MECHANICAL
MEW	= MIDDLE EACH WAY
MEZZ	= MEZZANINE
MID	= MIDDLE
MISC	= MISCELLANEOUS
ML	= MIDDLE LAYER
mm	= MILLIMETRE
MOM	= MOMENT
m	= METRE, METRIC
MPa	= MEGAPASCAL
MW	= MASONRY WALL
MF	= FACTORED MOMENT
Mx, My	= FACTORED MOMENT ABOUT X-AXIS OR Y-AXIS, kNm
MRF	= MASONRY FOUNDATION WALL
MRW	= MASONRY RETAINING WALL
N	= NETWORKS
NF	= NEAR FACE
NIC	= NOT IN CONTRACT
NLT	= NAIL LAMINATED TIMBER
N-S	= NORTH-SOUTH
NTS	= NOT TO SCALE
OF	= OUTSIDE FACE
OWSJ	= OPEN WEB STEEL JOISTS
OPEN	= OPENING
PL	= PLATE
PC	= PRECAST
PROJ	= PROJECTION
R	= REACTION
RAD	= RADIUS
REF	= REFERENCE
REINF	= REINFORCE, REINFORCEMENT
REQD	= REQUIRED
REV	= REVISION, REVISED
RF	= FACTORED REACTION FORCE, kN
rw, RW	= REINFORCED WITH
RW	= RETAINING WALL
SECT	= SECTION
SOF	= STEP DOWN FOOTING

SIM	= SIMILAR
SI	= STRUCTURALLY INSULATED PANEL
SL	= SNOW LOAD
SOQ	= SLAB ON GRADE
SPECS	= SPECIFICATIONS
SO	= SQUARE
STD	= STANDARD
STRUCT	= STRUCTURAL
SW	= SHEAR WALL OR STUD WALL
T	= TOP
TD	= TYPICAL DETAIL
TDL	= TENSION DEVELOPMENT LENGTH, mm
T/O, TOS	= TOP OF SLAB
TEN	= TENSION
TEW	= TOP EACH WAY
TM	= FACTORED TORSIONAL MOMENT, kNm
TF	= FACTORED TENSION FORCE, kN
TJ	= TIE JOIST
TLL	= TOP LOWER LAYER
TUL	= TOP UPPER LAYER
TEMP	= TEMPERATURE
TLS	= TENSION LAP SPICE, mm
TYP	= TYPICAL
UL	= UPPER LAYER
UN, UNO	= UNLESS NOTED OTHERWISE
US	= UNDERSIDE
VF	= FACTORED SHEAR OR VERTICAL FORCE, kN
V, VERT	= VERTICAL
VEF, V EF	= VERTICAL EACH FACE
VB	= VERTICAL BRACE/BRACING
VSC	= VERTICALLY SLOTTED CONNECTION
WPL	= WALL PLATE
WW	= WOOD WALL
WWF	= WELDED WIRE FABRIC
WWM	= WELDED WIRE MESH
W, w	= WITH
W, W, W	= UNIFORMLY DISTRIBUTED LOADS

WALL FOOTINGS

TD3104

SLAB ON GRADE - JOINTS, STEPS, SAWCUTS

TD0320



PROFESSIONAL SEAL

- GENERAL NOTES:
-
1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
 3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

1. ALL ENDS USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL - EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
2. THE QUALIFIED DESIGN PROFESSIONAL MUST REVIEW AND UPDATE THE APPROVED DESIGN DOCUMENTS TO ALLOW WITH SITE CONDITIONS, VERIFY ASSUMPTIONS, MAKE ANY FINAL DESIGN SELECTIONS OR MODIFICATIONS DESIRED, AND ENSURE CODE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATORY REQUIREMENTS.
3. THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS UPON WHICH THIS INCLUDES APPLYING THE ARCHITECT'S OR ENGINEER'S SEAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATION AND THE AUTHORITIES HAVING JURISDICTION (A/HJ). THE QUALIFIED DESIGN PROFESSIONAL IS RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
4. THE ARCHITECT OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (A/HJ).
5. CONSTRUCTION REVIEW BY THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

[illegible]

PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

GENERAL NOTES AND TYPICAL DETAILS

PROJECT NO:

SCALE: N.T.S

SHEET NO:

S-001

GENERAL NOTES

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

- 1 ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL –
EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS
DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND
THEIR RESPECTIVE HAVING JURISDICTION.
- 2 THE QUALIFIED DESIGN PROFESSIONAL MUST REVIEW AND UPDATE
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HAVING JURISDICTION (AHS). QUALIFIED DESIGN PROFESSIONALS ARE
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ACTS, RULES, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO
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- 4 THE END USER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT
THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE
LOCAL BUILDING JURISDICTION.
- 5 CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED
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STANDARDS.

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

GENERAL NOTES AND TYPICAL DETAILS

PROJECT NO:

SCALE: N.T.S

SHEET NO:

S-002

ANCHOR RODS AND BASEPLATES FOR GRAVITY COLUMNS NOTES: - THE BASE PLATE DIMENSION GIVEN FIRST IS PARALLEL TO THE COLUMN WEB OR TO THE LONG DIMENSION OF THE COLUMN. - IF THE COLUMN IS SQUARE OR ROUND, THE DIMENSION GIVEN FIRST IS PARALLEL TO THE NORTH-SOUTH AXIS. - TYPICAL MINIMUM EDGE DISTANCE "x" FROM CENTRE OF HOLE TO EDGE OF THE PLATE TO BE 1½ x HOLE DIAMETER AT ROLLED, SAWN OR CUT EDGES, AND 1½ x HOLE DIAMETER AT SHEARED EDGES. - CONNECT COLUMN TO THE BASE PLATE FOR BASE REACTIONS NOTED IN THE COLUMN SCHEDULE. IF NONE SPECIFIED, FIT COLUMN TO BEAR AND WELD FOR A SHEAR FORCE EQUAL TO 2% OF THE FACTORED AXIAL LOAD. - REFER TO TABLE BELOW FOR MAXIMUM ANCHOR ROD HOLE SIZES AND MINIMUM PLATE WASHER SIZES. REFER TO PROJECT SPECIFIC DETAILS FOR WELD WASHERS AT BRACE OR FRAME LOCATIONS. - CIRCULAR (DIAMETER) OR SQUARE (SIDE) WASHERS MEETING THE MIN. WASHER SIZE ARE ACCEPTABLE. - DO NOT WELD WASHERS TO THE BASE PLATE UNLESS NOTED OTHERWISE. - FOR 1" DIAMETER ANCHOR RODS, 20mm DIAMETER HOLES MAY BE USED WITH ASTM F844 WASHERS IN PLACE OF FABRICATED PLATE WASHERS. <table border="1"> <thead> <tr> <th>ANCHOR ROD DIAMETER (in.)</th> <th>MAX HOLE DIAMETER</th> <th>MIN. WASHER SIZE</th> <th>MIN. WASHER THICKNESS (1554 Gr-50)</th> <th>MIN. WASHER THICKNESS (1554 Gr-55)</th> </tr> </thead> <tbody> <tr> <td>¾"</td> <td>33</td> <td>51</td> <td>5.4</td> <td>7.9</td> </tr> <tr> <td>1"</td> <td>40</td> <td>64</td> <td>7.9</td> <td>7.9</td> </tr> <tr> <td>1¼"</td> <td>46</td> <td>76</td> <td>9.5</td> <td>9.5</td> </tr> <tr> <td>1½"</td> <td>52</td> <td>89</td> <td>13</td> <td>13</td> </tr> <tr> <td>1¾"</td> <td>59</td> <td>102</td> <td>13</td> <td>16</td> </tr> <tr> <td>1¾"</td> <td>79</td> <td>114</td> <td>16</td> <td>16</td> </tr> <tr> <td>2"</td> <td>83</td> <td>127</td> <td>19</td> <td>19</td> </tr> <tr> <td>2½"</td> <td>95</td> <td>140</td> <td>19</td> <td>22</td> </tr> </tbody> </table>	ANCHOR ROD DIAMETER (in.)	MAX HOLE DIAMETER	MIN. WASHER SIZE	MIN. WASHER THICKNESS (1554 Gr-50)	MIN. WASHER THICKNESS (1554 Gr-55)	¾"	33	51	5.4	7.9	1"	40	64	7.9	7.9	1¼"	46	76	9.5	9.5	1½"	52	89	13	13	1¾"	59	102	13	16	1¾"	79	114	16	16	2"	83	127	19	19	2½"	95	140	19	22	COLD-FORMED STEEL - BEAM SUPPORTING JOISTS NOTE: SEE PLANS AND/OR SECTIONS FOR SIZES OF JOISTS AND BEAMS	COLD-FORMED STEEL - FRAMING AT WALLS NOTE: SCREW BOTH FLANGES OF WALL TRACKS TO STUDS	COLD-FORMED STEEL - BUILT-UP BEAMS
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WOOD FRAMING (1 OF 2) NOTES: - SEE PLANS FOR JOIST SIZE, SPACING, SPECIES AND LUMBER GRADE. SPACING NOT TO EXCEED 16" @ 40c. - UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE BRIDGING AS PER THE DETAIL BELOW AND THE SPACING REQUIREMENTS OF NOTE 4. - WHERE SPECIFIED ON THE DRAWINGS, PROVIDE STRAPPING AS PER THE DETAIL BELOW AND THE SPACING REQUIREMENTS OF NOTE 4. - LINES OF BRIDGING AND/OR STRAPPING ARE TO BE LOCATED NOT MORE THAN 7'-0" FROM A SUPPORT AND SPACED AT NOT GREATER THAN 7'-0" o.c. - UNLESS NOTED OTHERWISE, JOISTS ARE NOT TO BE NOTCHED. - WHERE HOLES ARE REQUIRED IN UNIFORMLY LOADED JOISTS FOR WIRING OR PLUMBING, THEIR DIAMETER SHALL NOT EXCEED ONE QUARTER OF THE JOIST DEPTH. CENTRE HOLES AT THE MID-DEPTH OF THE JOISTS, WITHIN THE MIDDLE TWO-THIRDS OF THE SPAN, HOLES SHALL BE SPACED NO CLOSER THAN A CLEAR DISTANCE OF ONE FULL JOIST DEPTH FROM ONE ANOTHER AS PER THE DETAIL BELOW. - HOLES NOT CONFORMING TO THE REQUIREMENTS OF NOTE 6 MUST BE APPROVED BY THE CONSULTANT.	WOOD FRAMING (2 OF 2) NOTES: - EDGES OF FLOOR AND ROOF SHEATHING TO BE TONGUE AND GROOVE. - USE 2" NAILS OR 16" SCREWS FOR SHEATHING LESS THAN ¾" THICK. - USE 2½" NAILS OR 2" SCREWS FOR ¾" TO 1" SHEATHING. - MINIMUM THICKNESS OF SUB-FLOOR SHALL BE ¾" FOR JOIST SPACING UP TO 1'4" @ 60c AND 2" FOR JOIST SPACING OF 2'0" @ 60c.	WOOD FRAMING - BUILT-UP BEAMS FASTENING OF BEAMS NOTE: SEE ABOVE FOR SPACING OF ANCHORS SUPPORT OF JOISTS NOTES: - THE PILES OF 4-PLY AND 5-PLY BEAMS ARE TO BE FASTENED USING BOLTS ONLY. 2-PLY AND 3-PLY BEAMS MAY BE NAILED OR BOLTED. 4-PLY AND 5-PLY BEAMS ARE TO BE TOP LOADED WHENEVER POSSIBLE. THEY MAY BE SIDE LOADED PROVIDED THEY ARE LOADED EQUALLY FROM BOTH SIDES.	WOOD FRAMING - SUPPORTING LEDGERS NOTES: - SUITABLE FOR RESIDENTIAL FLOORS WITH LL=40 PSF (1.94Pa). DL=50 PSF (1.44Pa), MAXIMUM SPAN 12'-2" (4.8m). - LEADER MATERIAL TO BE 2.0E 9.4MPa (Kc). - EMBEDMENT DEPTH SPECIFIED IS EFFECTIVE EMBEDMENT DEPTH OF ANCHOR. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS. - PROVIDE SILL GASKET FOR BELOW GRADE APPLICATIONS. - ADDITIONAL ANCHORS (IF REQUESTED) ON LAN FOR TRANSFER OF DIAPHRAGM FORCES																																													
STUD WALL - FLOOR FRAMING DETAIL AT FOUNDATION WALL PERPENDICULAR TO JOISTS NOTE: NAILING ETC. SIMILAR TO WOOD STUD WALLS	STUD WALL - DETAILS Holes in Studs for Wiring or Plumbing - MAXIMUM HOLE DIAMETER (Ø) LIMITED TO ¼ d. - HOLES SHALL BE CENTRED ON THE WIDE FACE OF THE STUD AND DRILLED PERPENDICULAR TO THE STUD. - WHERE HOLES ARE TO BE LOCATED NEAR (WITHIN A DISTANCE D) OF A CHECK OR A KNOT (LOOSE OR ¾Ø), PROVIDE A DOUBLE STUD WHERE HOLES ARE REQUIRED THAT DEVIATE FROM THE ABOVE LIMITS. CONTACT THE CONSULTANT FOR FURTHER INSTRUCTION. NOTES: - SEE PLANS FOR STUD SIZE, SPECIES, LUMBER GRADE AND SPACING. SPACING NOT TO EXCEED 2'-0". - ALL STUDS TO BE CONTINUOUS FOR FULL STORY HEIGHT EXCEPT AT OPENINGS. - WIDE FACE OF STUD IS TO BE ORIENTED PERPENDICULAR TO THE WALL FACE. - NOTES SHOWN FOR THE EXTERIOR WALL CONDITION APPLY TO THE INTERIOR WALL ALSO.	BUILT-UP WOOD COLUMN/STUD WOOD SHEATHED WALLS INTERIOR PARTITIONS BUILT-UP WOOD COLUMNS/STUDS IN WALL FREE STANDING BUILT-UP WOOD COLUMN NOTES: - NO SPLICES SHALL BE MADE IN ANY BUILT-UP WOOD COLUMNS. - DETAILS ABOVE ONLY APPLY TO SPF COLUMNS. - ALL NAILS TO BE COMMON WIRE NAILS.	WOOD FRAMED SHEAR WALLS SHEATHING INSTALLED VERTICALLY SHEATHING INSTALLED HORIZONTALLY NOTES: - ALL PANEL EDGES ARE TO BE BACKED WITH MINIMUM 1½" [38] WIDE FRAMING MEMBERS. - SHEATHING IS TO BE PLYWOOD, OSB, OR WAFFERBOARD. CONFORM TO CSA O121 FOR DOUGLAS FIR PLYWOOD, OR CSA O181 FOR CANADIAN SOFTWOOD PLYWOOD. CONFORM TO CSA O341 OR CSA O342 FOR OSB AND WAFFERBOARD. PANELS ARE TO BE 1200x2400 (4x8) OR LARGER EXCEPT WHERE SMALLER SHEETS ARE NEEDED NEAR BOUNDARIES. - UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL SHEAR WALLS ARE TO BE SHEATHED WITH MINIMUM 11mm (¾") THICK SHEATHING ON ONE SIDE, NAILED IN ACCORDANCE WITH THE PATTERNS SHOWN ABOVE. - NAIL LENGTHS ARE TO CONFORM TO THE FOLLOWING: <table border="1"> <thead> <tr> <th>SHEATHING THICKNESS</th> <th>NAIL LENGTH</th> <th>NAIL DIA. (MM)</th> </tr> </thead> <tbody> <tr> <td>11mm (¾")</td> <td>2½"</td> <td>3.25mm (D 12#)</td> </tr> <tr> <td>12.5mm (½") OR GREATER</td> <td>3" UN</td> <td>3.65mm (D 14#)</td> </tr> </tbody> </table> NOTE: REDUCE NAIL SPACING BY ½" IF USING 3.65mm (D 12#) DIAMETER POWER-DRIVEN NAILS. i.e. REDUCE SPACING TO 100mm o.c. AROUND PANEL EDGES. - CLIPPED HEAD NAILS ARE NOT PERMITTED. NAILS MUST HAVE CONCENTRIC, FLUSH ROUND HEADS. - NAIL HEADS ARE TO BE DRIVEN FLUSH WITH FACE OF SHEATHING. DO NOT OVER DRIVE NAILS MORE THAN 15% OF THE THICKNESS OF THE SHEATHING. - INTERMEDIATE NAILING IS TO BE AT 12" [305] (AS SHOWN). - NAILS ARE TO BE SPACED NO CLOSER THAN 9mm TO PANEL EDGES. - WHERE PANELIZED WALLS WITH PRE-INSTALLED SHEATHING ARE USED, AND WHERE THE SHEATHING DOES NOT OVERLAP AND IS NOT NAILED TO ADJACENT PANELS, PROVIDE EQUIVALENT NAIL SIZE AND SPACING BETWEEN STUDS OF ADJACENT PANELS AS IS USED AROUND PANEL PERIMETER TO ENSURE CONTINUITY OF SHEARWALL.	SHEATHING THICKNESS	NAIL LENGTH	NAIL DIA. (MM)	11mm (¾")	2½"	3.25mm (D 12#)	12.5mm (½") OR GREATER	3" UN	3.65mm (D 14#)																																				
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4PLEX NARROW GROUND FLOOR MEMBER SCHEDULE (FACTORED LOADS)						
LABEL	SECTION	REACTIONS (kN, UNO)		COMMENTS		FINAL DESIGN FOR CONSTRUCTION (IFC)
		LEFT	RIGHT			
1/J1	302 JOIST @406 oc	6	6	M = 7 kN-m V ₁ = 6 kN E ₁ = 2.55 x 10 ⁶ N/mm ²		BY EWP SUPPLIER
1/J1	38 x 184 SPF @406 LANDING JOISTS	4	4	SUPPORT WITH LB1 AS PER PLAN		AS SHOWN ON PLAN
1B1	(2) 44 x 302 LVL (FLUSH)	5 (10)	40	SUPPORT LEFT SIDE w/ FACE-MOUNT HANGER, RIGHT SIDE ON FOUNDATION WALL		AS SHOWN ON PLAN
1B2	(2) 44 x 302 LVL (FLUSH)	5 (10)	40	SUPPORT LEFT SIDE w/ FACE-MOUNT HANGER, RIGHT SIDE w/ POST PER PLAN		AS SHOWN ON PLAN
1B3	(2) 44 x 302 LVL (FLUSH)	5 (5)	10	SUPPORT WITH FACE-MOUNT HANGERS		AS SHOWN ON PLAN
1B4	(2) 44 x 302 LVL (FLUSH, CANTILEVERED)	20	20	SUPPORT WITH FACE-MOUNT HANGERS		AS SHOWN ON PLAN
1B5	(2) 44 x 302 LVL (FLUSH)	15	15	SUPPORT LEFT SIDE w/ STUD WALL PER PLAN, RIGHT SIDE ON FOUNDATION WALL		AS SHOWN ON PLAN
1B6	(2) 44 x 302 LVL (FLUSH)	10	10	SUPPORT WITH POSTS AS PER PLAN		AS SHOWN ON PLAN
1B7	(2) 44 x 302 LVL (FLUSH)	15	15	SUPPORT ON FOUNDATION WALL		AS SHOWN ON PLAN
1B8	(2) 44 x 302 LVL (FLUSH)	5	5	SUPPORTS VARY, REFER TO PLAN		AS SHOWN ON PLAN
1B1	(2) 44 x 184 LVL LANDING BEAM	20	20	SUPPORTS VARY, REFER TO PLAN		AS SHOWN ON PLAN
SB1	C250 x 30 LANDING BEAM	5	5	SUPPORT WITH FRAMING AS PER PLAN		STEEL TO STEEL CONNECTIONS BY MISCELLANEOUS METALS FABRICATOR
SB2	C250 x 30 LANDING BEAM	RI = 25 MI = 20kN-m CI = TI = 5 kN	RI = 25 MI = 5kN-m CI = TI = 5 kN	SUPPORT WITH FRAMING AS PER PLAN		STEEL TO STEEL CONNECTIONS BY MISCELLANEOUS METALS FABRICATOR
SB4	C250 x 30 STRINGER	RI = 10 CI=TI= 15kN	RI = 10 CI=TI= 15kN	SUPPORT WITH FRAMING AS PER PLAN		STEEL TO STEEL CONNECTIONS BY MISCELLANEOUS METALS FABRICATOR
SB5	C250 x 30 STRINGER	RI = 10 MI = 5kN-m CI = TI = 10kN	RI = 10 MI = 5kN-m CI = TI = 10kN	SUPPORT WITH FRAMING AS PER PLAN		STEEL TO STEEL CONNECTIONS BY MISCELLANEOUS METALS FABRICATOR
CB1	200 WIDE x 250 DEEP 25MPa CONC. LINTEL (w/ (2) 19M T&B & 10M CLOSED STIRRUPS @300, EXTEND 150MM BEYOND MIN 600 BEYOND OPENING EA. END TYP. PROVIDE DIAGONAL BARS AT CORNERS.					AS SHOWN ON PLAN

MEMBER SCHEDULE NOTES:

- LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN. PLAN DOWN = LEFT, PLAN UP = RIGHT.
- PROVIDE APPROPRIATE HOLD DOWN STRAPS, TIES AND ANCHORS WHERE UPLIFT FORCES ARE NOTED OR AT BACK SPAN SUPPORT OF CANTILEVERED BEAMS.
- WHERE REACTION FORCES ARE NOT SHOWN FOR WOOD BEAMS, BEAM CONNECTIONS SHALL BE DESIGNED FOR 70% OF THE SHEAR CAPACITY OF THE BEAM.

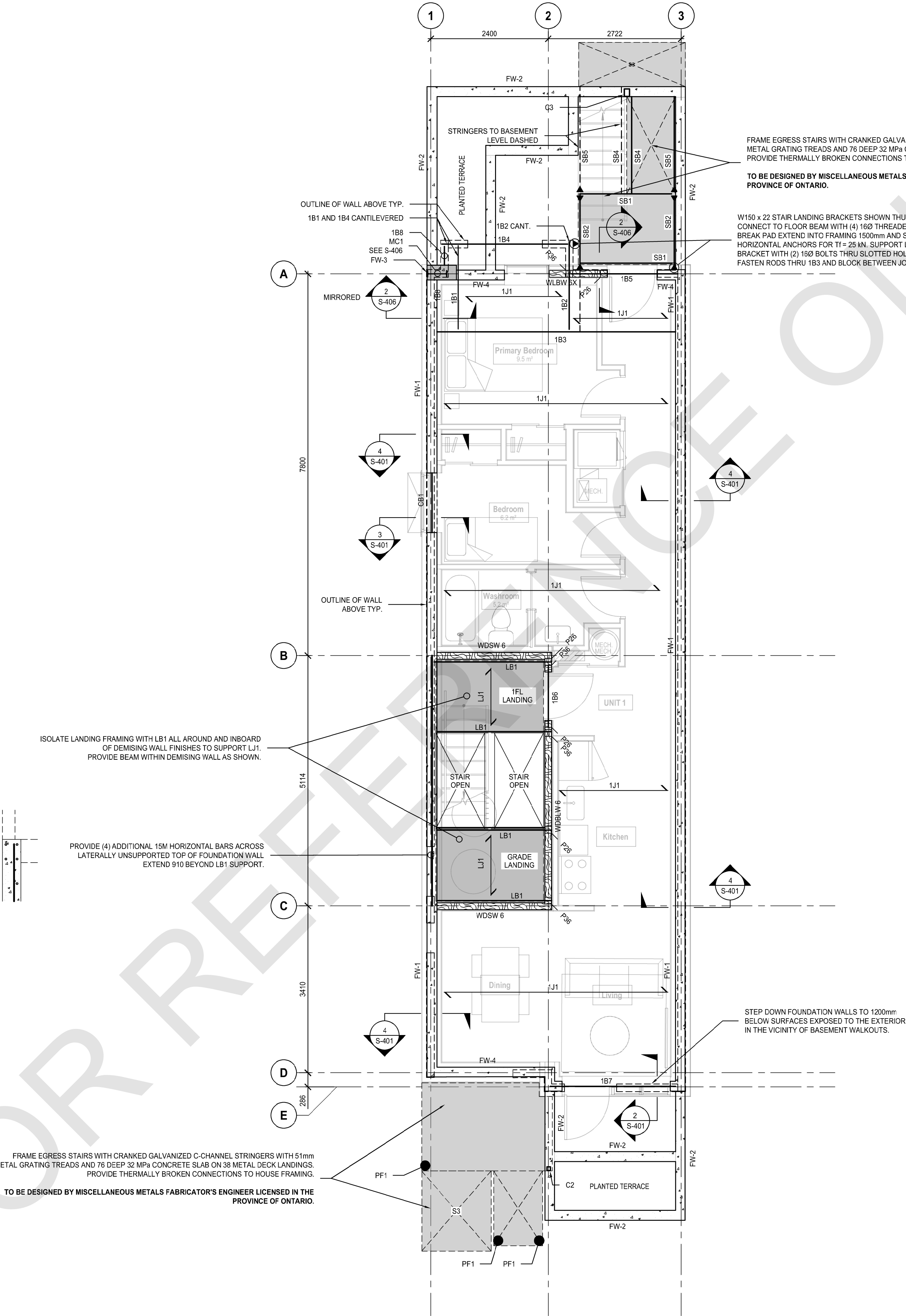
WALLS, COLUMNS, POSTS, FOUNDATIONS AND SLABS SCHEDULE			
LABEL	ELEMENT	COMMENTS	FINAL DESIGN (IFC)
MC1	W410 x 48 BEAM COLUMN MOMENT CONNECT TO TOP OF 300 FOUNDATION WALL WITH (6) 160 HEAVY HEX HEAD ANCHOR RODS - 150 EMBED	REFER TO S406	AS SHOWN ON PLAN & DETAILS
C2	HSS 76 x 76 x 6.4 STUD COLUMN SUPPORTING STEEL FRONT/REAR LANDING EDGE		STEEL TO STEEL CONNECTIONS BY MISCELLANEOUS METALS FABRICATOR
C3	HSS 152 x 102 x 13 COLUMN. C CHANNEL PLANGES MAY BE CORDED AT COLUMN AND OUTRIGGER BEARS TO REDUCE MEMBER SPACING AND OVERALL STAIR WIDTH	FOURPLEX NARROW REAR EXTERIOR STAIR COLUMN	STEEL TO STEEL CONNECTIONS BY MISCELLANEOUS METALS FABRICATOR
PIF4	(5) 38 x 89 SPF BUILT UP POST		AS SHOWN ON PLAN
PIF6	(5) 38 x 140 SPF BUILT UP POST		AS SHOWN ON PLAN
WLBW 6X	38 x 140 SPF @406 EXTERIOR LOAD BEARING STUD WALLS WITH 16mm PLYWOOD SHEATHING SHOWN THUS TYP.	TYPICAL EXTERIOR WOOD WALL	AS SHOWN ON PLAN
WDLBW 6	38 x 140 SPF @406 INTERIOR LOAD BEARING STUD WALL	INTERIOR LOAD BEARING WALLS	AS SHOWN ON PLAN
WDSW 6	38 x 140 SPF @406 STUD SHEAR WALL. CLAD ONE SIDE OF WALL WITH 12.7mm PLYWOOD SHEATHING FOR EXTENT SHOWN	INTERIOR LOAD BEARING SHEAR WALLS	AS SHOWN ON PLAN
FW-1	200 25 MPa CONCRETE FOUNDATION WALLS (w/ 15M @500 HV) INSIDE FACE. SUPPORT ON 800 x 200 (w/ (3) 15M CONT. & 15M TRANS. @400. PROVIDE 15M HOOKED DOWELS @1200	1TW @ -44 BELOW GROUND FFE. SIDE FOUNDATION WALLS SUPPORTING CFS FRAMING	MIN BEARING PRESSURE PER CBC 9.15.1.1 OR REVISE TO SUIT GEOTECHNICAL INVESTIGATION
FW-2	200 25 MPa CONCRETE RETAINING WALLS AT BASEMENT WALKOUT. (w/ 15M @400 HV) INSIDE FACE. SUPPORT ON 500 x 200 STRIP FOOTINGS (w/ (2) 15M CONT. PROVIDE 15M HOOKED DOWELS @1200. NOTE FW-2 WALLS SPAN HORIZONTALLY. HORIZONTAL REBAR MUST BE INSTALLED INSIDE FACE OF WALL.	TYPICAL RETAINING WALL	MIN BEARING PRESSURE PER CBC 9.15.1.1 OR REVISE TO SUIT GEOTECHNICAL INVESTIGATION
FW-3	300 x 600 25 MPa CONCRETE FOUNDATION PIER (w/ (8) 20M VERT AND 15M STIRRUPS @ 300. SUPPORT ON 800 x 300 (w/ (4) 15M CONT. T&B & 15M TRANS. @800 T&B. PROVIDE HOOKED DOWELS TO MATCH VERT PIER REIN.	FOUNDATION WALL AT MC1	MIN BEARING PRESSURE PER CBC 9.15.1.1 OR REVISE TO SUIT GEOTECHNICAL INVESTIGATION
FW-4	200 25 MPa CONCRETE FOUNDATION WALLS (w/ 15M @500 HV) INSIDE FACE. SUPPORT ON 800 x 200 (w/ (3) 15M CONT. & 15M TRANS. @400. PROVIDE 15M HOOKED DOWELS @1200	1TW @ -388 BELOW GROUND FFE. FRONT AND END REAR FOUNDATION WALLS SUPPORTING WOOD FRAMING	MIN BEARING PRESSURE PER CBC 9.15.1.1 OR REVISE TO SUIT GEOTECHNICAL INVESTIGATION
S3	150mm - 32 MPa CONCRETE LANDING SLAB ON GRADE ON COMPACTED CLEAR CRUSHED STONE	LANDING SLAB ON GRADE	AS SHOWN ON PLAN

GROUND LEVEL FRAMING NOTES

- LOADS USED IN THE DESIGN:
LIVE: 1.9 kPa RESIDENTIAL AREAS
4.8 kPa COMMON AND EGRESS AREAS
SNOW: 1.06 kPa

DEAD LOAD: 0.50 kPa (PARTITIONS)
0.15 kPa (FLOORING)
0.25 kPa (STRUCTURE)
0.20 kPa (INSULATION)
0.10 kPa (FINISHES)
0.50 kPa (SUSPENDED)
1.70 kPa (FLOOR TOTAL)

BALCONY: 0.30 kPa (ROOFING)
0.20 kPa (STRUCTURE)
0.10 kPa (FINISHES)
0.40 kPa (SUSPENDED)
1.80 kPa (CONCRETE ON METAL DECK)
2.90 kPa (ROOF DECK TOTAL)
- REFER TO ARCHITECTURAL DRAWINGS FOR DATUM ELEVATIONS.
- ALL NEW FLOOR SHEATHING TO BE 3/4" T&G FASTENED DIRECTLY TO FLOOR JOISTS.
- ALL WOOD-TO-WOOD CONNECTIONS ARE TO BE MADE WITH APPROPRIATE TOP OR FACE MOUNT HANGERS.
- ALL TEMPORARY WORKS, INCLUDING SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE SOLID BLOCKING IN JOIST SPACE (SQUASH BLOCKS) AND CONTINUE ALL BUILT UP POSTS DOWN TO T/O FOUNDATION WALLS.
- "PA" DENOTES POST POINT LOAD FROM ABOVE & "CA" DENOTES COLUMN POINT LOAD FROM ABOVE.
- BUILT-UP SPF POSTS MARKED "P36", "P46", ETC. DENOTES (3) 38x140, (4) 38x140, ETC.
- WHERE POSTS ARE NOT MARKED ON PLAN, PROVIDE MATCHING NUMBER OF BUILT-UP STUDS TO SUPPORT DIMENSIONAL LUMBER BEAMS AND MATCHING NUMBER OF STUDS PLUS (1) TO SUPPORT ENGINEERED LUMBER BEAMS, TYP.
- P-CFS NOTES BUILT-UP COLD FORMED STEEL POST BY SUPPLIER.
- REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- DO NOT SCALE STRUCTURAL DRAWINGS.



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City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE

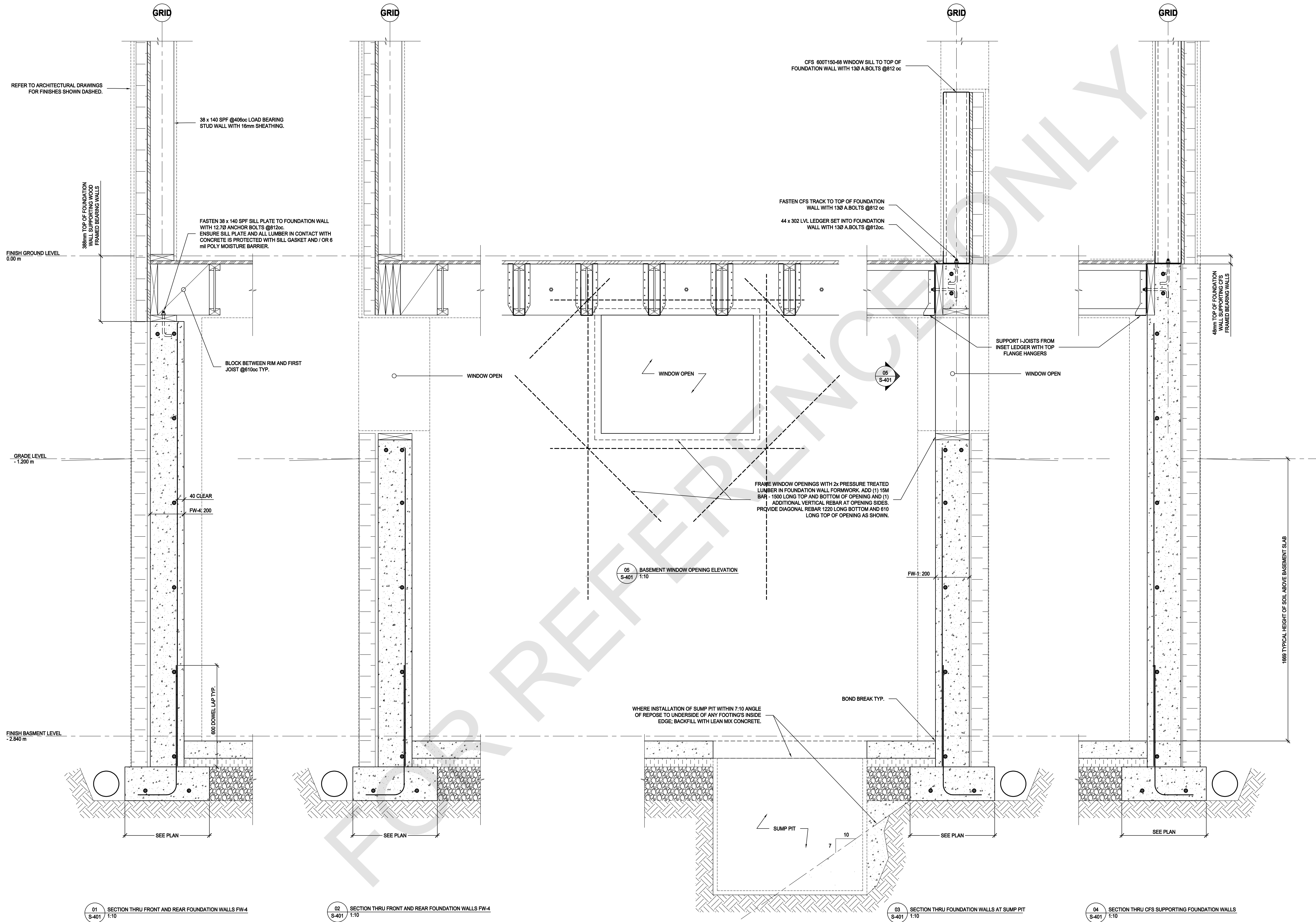
FOUNDATION DETAILS

PROJECT NO.

SCALE: 1 : 10

SHEET NO:

S-401



1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

- ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
- THE QUALIFIED DESIGN PROFESSIONAL MUST REVIEW AND UPDATE THE PRE-APPROVED DESIGN DRAWINGS TO ALIGN WITH SITE SPECIFIC CONDITIONS, VERIFY ASSUMPTIONS, AND PROVIDE DESIGN SELECTIONS OR MODIFICATIONS DESIRED, AND ENSURE CODE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATORY REQUIREMENTS.
- THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS UPON UPDATE. THIS INCLUDES APPLYING THE ARCHITECT'S OR ENGINEER'S SEAL, AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION (A/HJ). QUALIFIED DESIGN PROFESSIONALS ARE RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY REQUIREMENTS AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
- THE END USER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT A REQUEST FOR A VARIATION OF THE PRE-APPROVED DESIGN DRAWINGS TO THE AUTHORITY HAVING JURISDICTION (A/HJ) TO PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (A/HJ).
- CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH THE APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

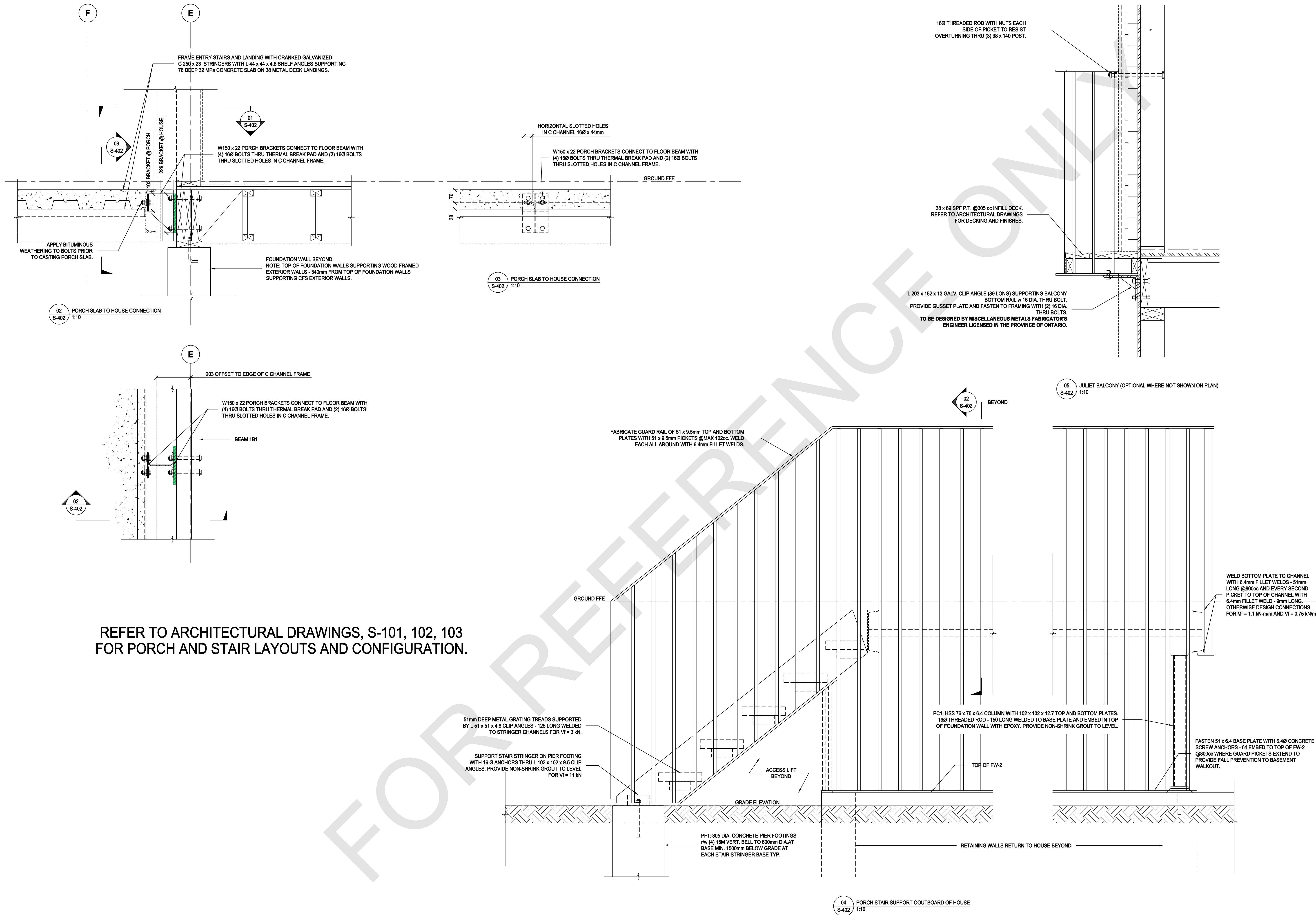
ENTRY PORCH AND EGRESS STAIR SUPPORT DETAILS

PROJECT NO:

SCALE: 1 : 10

SHEET NO:

S-402



1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

1. ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
2. THE QUALIFIED DESIGN PROFESSIONAL MUST REVIEW AND UPDATE THE PRE-APPROVED DESIGN DRAWINGS TO ALIGN WITH SITE CONDITIONS, VERIFY ASSUMPTIONS, MAKE ANY FINAL DESIGN SELECTIONS OR MODIFICATIONS DESIRED, AND ENSURE CODE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS.
3. THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED. THIS INCLUDES APPLYING THE ARCHITECTS OR ENGINEERS SEAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITIES HAVING JURISDICTION (AHS). QUALIFIED DESIGN PROFESSIONALS ARE RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
4. THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (AHJ).
CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

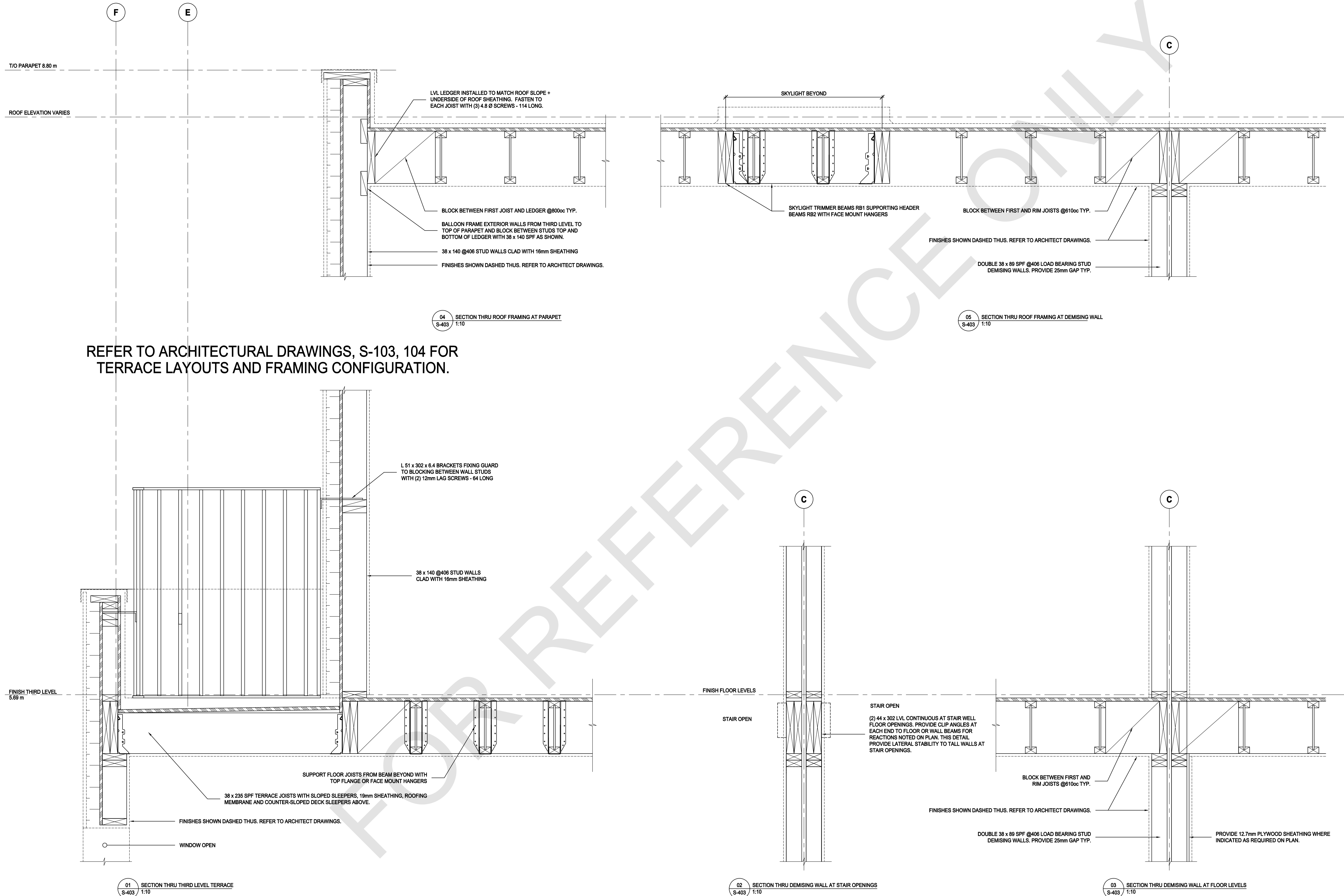
WOOD FRAMING DETAILS

PROJECT NO: 250580

SCALE: 1 : 10

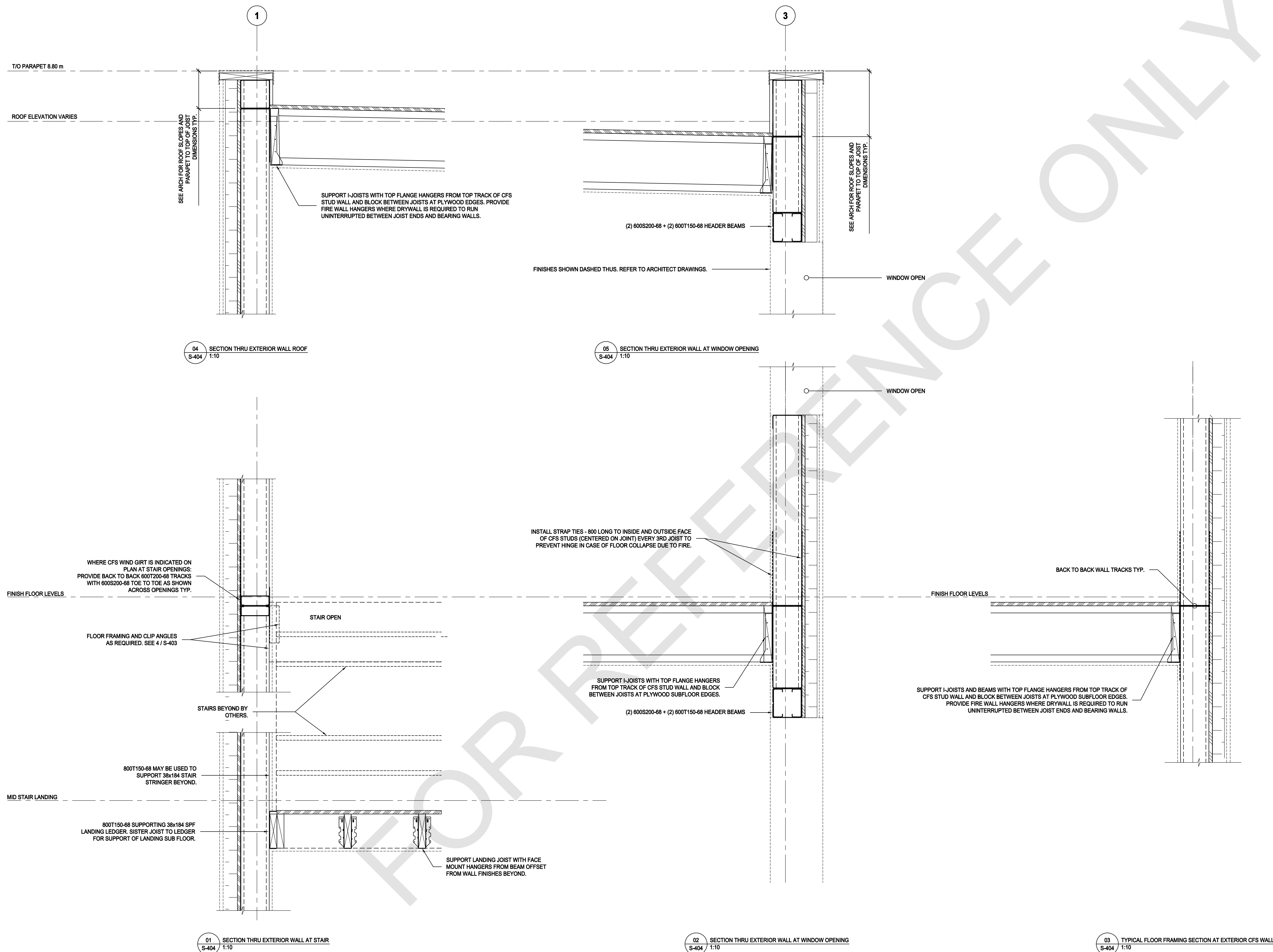
SHEET NO:

S-403



NO.	DATE	DESCRIPTION
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S-404



[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:

FOUNDATION DETAILS

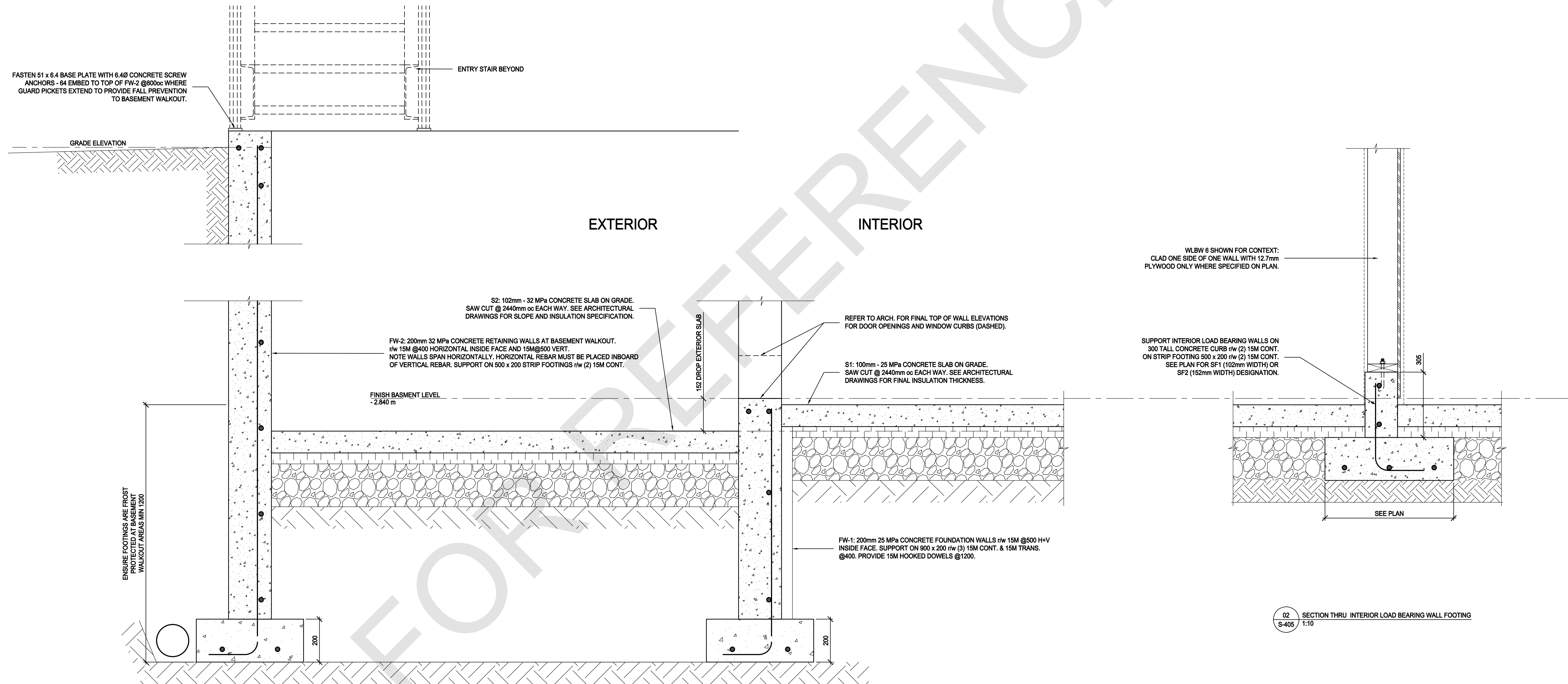
PROJECT NO:

SCALE: 1 : 10

SHEET NO:

S-405

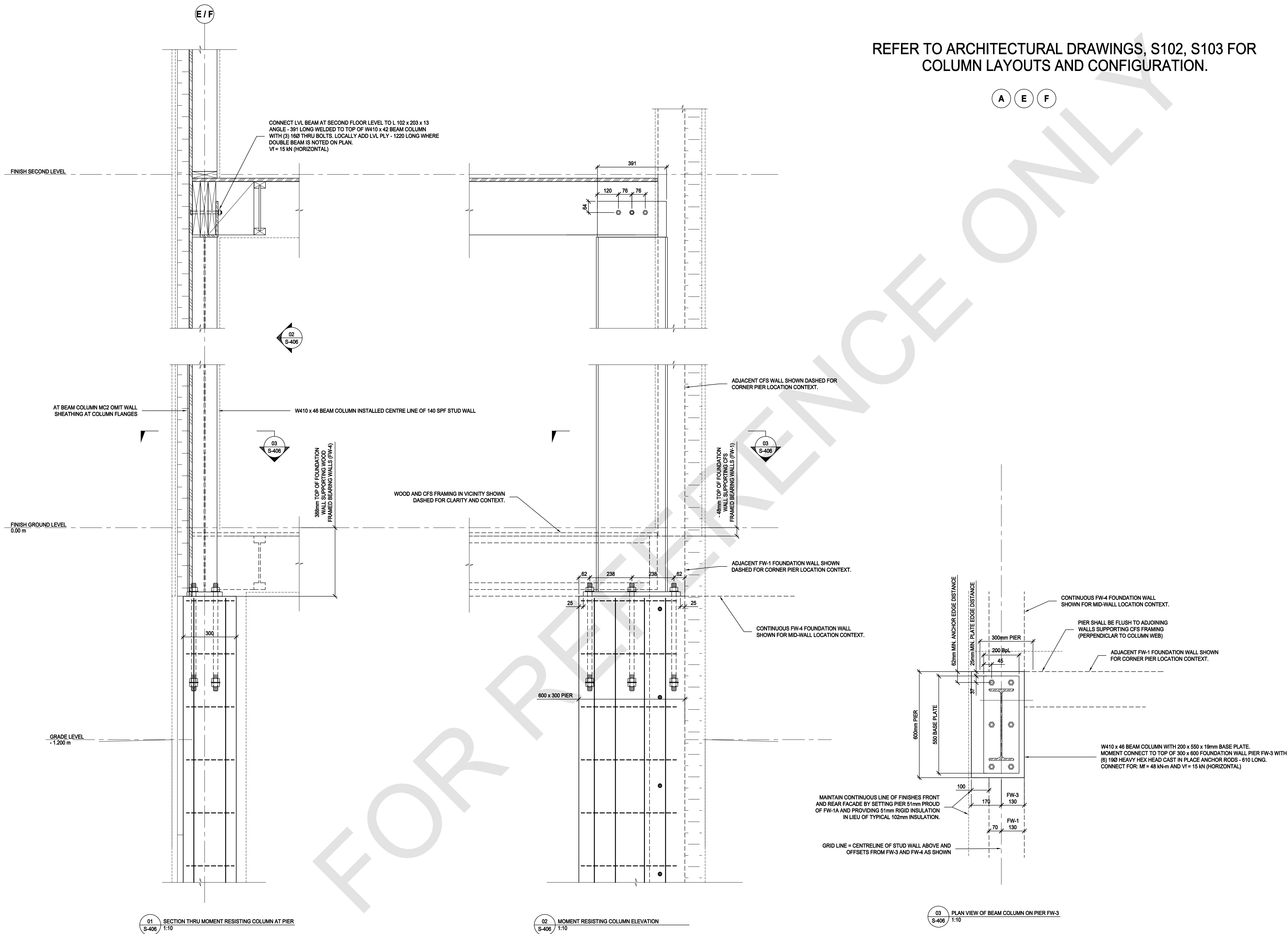
REFER TO ARCHITECTURAL DRAWINGS, S-101, 102, 103
FOR PORCH AND STAIR LAYOUTS AND CONFIGURATION.



01	SECTION THRU BASEMENT WALKOUT SLAB AND WALLS
S-405	1:10

REFER TO ARCHITECTURAL DRAWINGS, S102, S103 FOR
COLUMN LAYOUTS AND CONFIGURATION.

A E F

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT: City of Toronto - Multiplex

FOURPLEX NARROW

SHEET TITLE:
LATERAL STABILIZING COLUMN
DETAILS

PROJECT NO: _____
SCALE: 1 : 10

SHEET NO:
S-406

CITY OF TORONTO MULTIPLEX FOURPLEX NARROW MECHANICAL DRAWINGS - ALL ELECTRIC



PROFESSIONAL SEAL

DISCLAIMER

GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE QUALIFIED DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. DO NOT SCALE THE DRAWINGS.

QUALIFIED DESIGN PROFESSIONAL (QDP)

1. ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL, AS DESIGNATED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND AUTHORITY HAVING JURISDICTION (AHJ).
2. THE QUALIFIED DESIGN PROFESSIONAL MUST REVIEW AND UPDATE THE PRE-APPROVED DESIGN DRAWINGS TO ALIGN WITH SITE CONDITIONS, VERIFY ASSUMPTIONS, MAKE ANY FINA DESIGN CHANGES OR MODIFICATIONS AND CONFIRM AND ENSURE THE COMPLIANCE WITH ALL APPLICABLE CODES, BYLAWS, AND OTHER REGULATIONS.
3. THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS ONCE UPDATED, THIS INCLUDES APPLYING THE ARCHITECTS OR ENGINEERS SEAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATION AND THE AUTHORITIES HAVING JURISDICTION AND THE QUALIFIED DESIGN PROFESSIONAL IS RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
4. THE ARCHITECT OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (AHJ).
5. CONSTRUCTION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED PROFESSIONAL, IN CONSULTATION WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.
6. ODP SHALL COMPLETE EEDS AND CONFIRM COMPLIANCE WITH SELECTED SB-12 PACKAGE.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

SHEET TITLE:

MECHANICAL COVER SHEET & SYMBOLS

PROJECT NO: 241058

SCALE: NTS

SHEET NO:

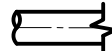
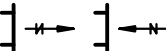
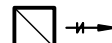
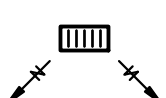
M000

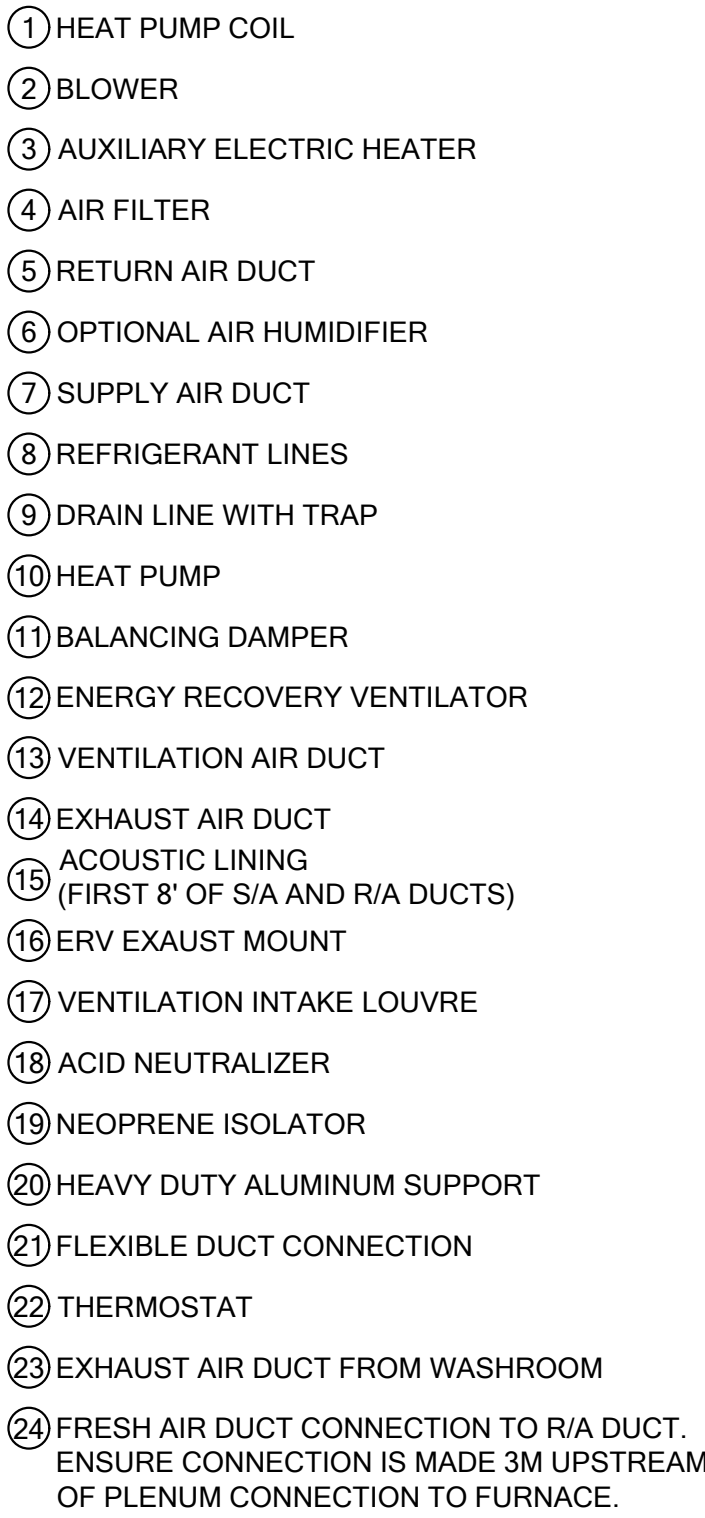
DRAWING NO.	DRAWING NAME
M000	MECHANICAL COVER SHEET & SYMBOLS
M001	MECHANICAL OUTLINE SPECIFICATIONS
M002	MECHANICAL DETAILS - ALL ELECTRIC
M100	FOURPLEX NARROW PLUMBING (BELOW GRADE & BASEMENT) - ALL ELECTRIC
M101	FOURPLEX NARROW PLUMBING (MAIN FLOOR TO THIRD FLOOR) - ALL ELECTRIC
M102	FOURPLEX NARROW HVAC

ABBREVIATIONS	
SYMBOL	DESCRIPTION
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTDOOR AIR

PLUMBING AND DRAINAGE	
SYMBOL	DESCRIPTION
	P-TRAP
	CLEAN OUT (FLOOR & CEILING)
	ROUND FLOOR DRAIN
	HUB DRAIN
	DOMESTIC COLD WATER (DCW) PIPING
	DOMESTIC HOT WATER (DHW) PIPING
	SANITARY DRAINAGE (SAN) PIPING
	WATER METER

MECHANICAL PIPING	
SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	PIPE UP & DOWN
	VALVE
	BALANCING VALVE
	PIPE CONTINUATION
	CONDENSATE DRAINAGE PIPING
	FLOW DIRECTION

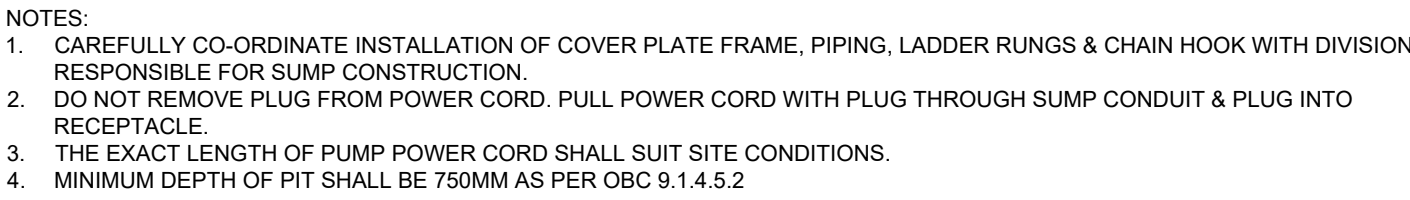
DUCTWORK	
SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT UP & DOWN
	RETURN / EXHAUST AIR DUCT UP & DOWN
	ROUND DUCT UP & DOWN
	DUCT CONTINUATION (ROUND & RECTANGULAR)
	SUPPLY / RETURN GRILLE
	RETURN / EXHAUST GRILLE
	TOILET EXHAUST FAN
	FLOOR GRILLE
	CEILING GRILLE
	FLOOR BOOT
	THERMOSTAT
	DOOR UNDERCUT



SCALE: NTS



SCALE: NTS



SCALE: NTS

1.	PROFESSIONAL THE CAPACITY OF SYSTEM, CORRESPONDING FLOW RATE AND ALL SERVICES SIZING SHALL BE CONFIRMED WITH RESPECT TO ACTUAL SITE CONDITION AND ORIENTATION.
2.	ALL EFFICIENCIES NOTED IN SPECIFICATION ARE MINIMUMS. QUALIFIED DESIGN PROFESSIONAL SHALL CONFIRM EQUIPMENT TO BE COORDINATED WITH THOSE EFFICIENCY DESIGN FORM PER ENERGY EFFICIENCY OF HOUSING COMPLIANCE PACKAGES (58-12).

SCHEDULE OF AIR HANDLER & HEAT PUMP SYSTEMS											
SYSTEM	AIRFLOW	COOLING	HEATING				ELECTRICAL			AUXILIARY HEATING COIL	REMARKS
		RATED COOLING CAPACITY (80°F)	RATED HEATING CAPACITY (47°F)	RATED HEATING CAPACITY (17°F)	MAX HEATING CAPACITY (-4°F)	MAX HEATING CAPACITY (-13°F)	MCA	MOCP	POWER		
	(CFM)	(MBH)	(MBH)	(MBH)	(MBH)	(MBH)	(MBH)			(V/PH/Hz)	
HP-1	471 - 573 - 675	21	23	14	16	10	17	31	208/1/60	3KW	

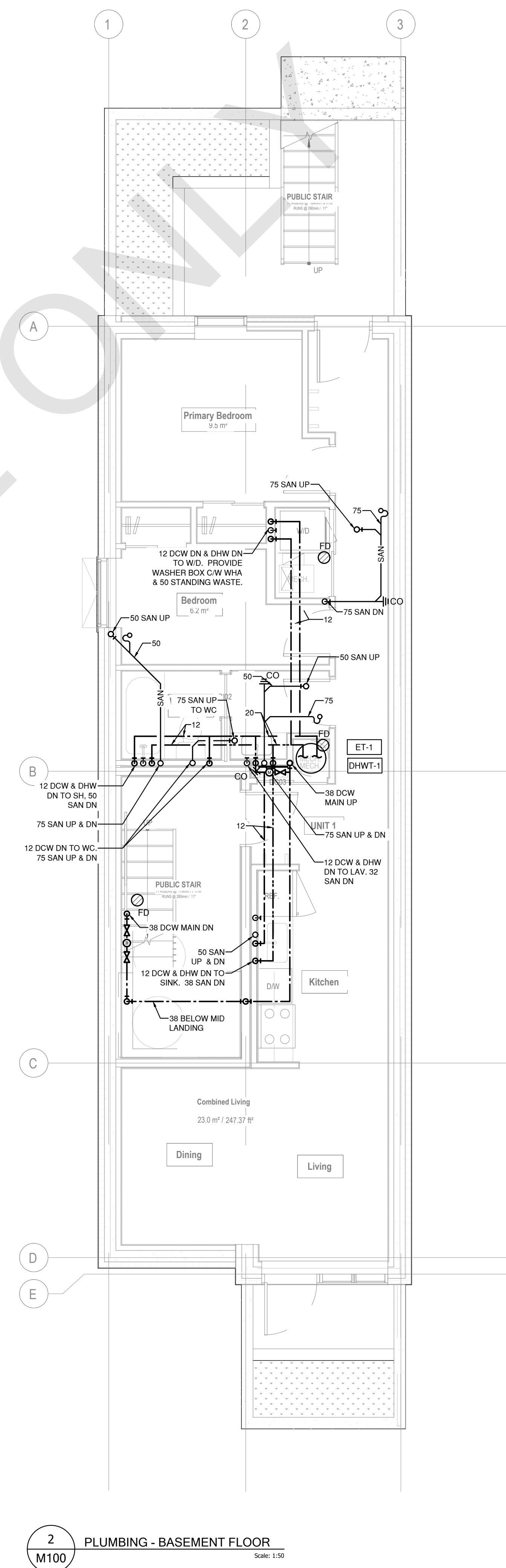
NOTES:

1. C/W 1 KW ELECTRIC PRE-HEATER BEFORE ERV CORE ON THE OUTDOOR AIR INTAKE
2. C/W 5 SPEED OPTIONS

1. ALL END USERS REQUIRE A QUALIFIED DESIGN PROFESSIONAL – EITHER AN ARCHITECT, ENGINEER, OR OTHER PROFESSIONAL AS DETERMINED BY THE RELEVANT PROFESSIONAL ASSOCIATIONS AND THE AUTHORITY HAVING JURISDICTION.
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4. THE END USER OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (A.H.J.).
5. THE QUALIFIED DESIGN PROFESSIONAL SHALL BE RESPONSIBLE OF THE QUALITY OF THE DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.
6. GDD SHALL COMPLETE EDES AND CONFORM COMPLIANCE WITH SELECT SB-12 PACKAGE.

NO.	DATE	DESCRIPTION
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M002



PROFESSIONAL SEAL

DISCLAIMER

GENERAL NOTES:

1. NO DRAWINGS WILL BE FOR CONSTRUCTION UNLESS STAMPED BY THE QUALIFIED DESIGN PROFESSIONAL (QDP) AND ISSUED FOR THAT PURPOSE.
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QUALIFIED DESIGN PROFESSIONAL (QDP)

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3. THE QUALIFIED DESIGN PROFESSIONAL WILL TAKE RESPONSIBILITY FOR THE ENTIRE SET OF DOCUMENTS UPON UPDATED. THIS INCLUDES APPLYING THE ARCHITECT'S OR ENGINEER'S SEAL AS REQUIRED BY THE RELEVANT PROFESSIONAL ASSOCIATION AND THE AUTHORITIES HAVING JURISDICTION. THE QUALIFIED DESIGN PROFESSIONAL IS RESPONSIBLE FOR COMPLYING WITH THE RELEVANT REGULATORY ACTS, BYLAWS, AND PROFESSIONAL REQUIREMENTS APPLICABLE TO THEIR JURISDICTION.
4. THE ARCHITECT OR THE QUALIFIED DESIGN PROFESSIONAL MAY SUBMIT THE FINALIZED DESIGN FOR A BUILDING PERMIT TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION (A.H.J.).
5. THE DESIGNATION REVIEW IS THE RESPONSIBILITY OF THE QUALIFIED DESIGN PROFESSIONAL IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND PROFESSIONAL PRACTICE STANDARDS.
6. HEATING AND COOLING LOAD CALCULATIONS SHALL BE COMPLETED BY THE DDP.
7. EQUIPMENT SCHEDULES SHOWN ARE CONCEPTUAL, AND MUST BE OBTAINED FOR THE PROJECT.
8. SUPPLY, RETURN AND EXHAUST AIRFLOW QUANTITIES SHALL BE VERIFIED BY THE DDP.
9. DDP SHALL COMPLETE FEEDS AND CONFIRM COMPLIANCE WITH SELECTED CODES, BYLAWS, AND REGULATIONS.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

City of Toronto - Multiplex

SHEET TITLE:

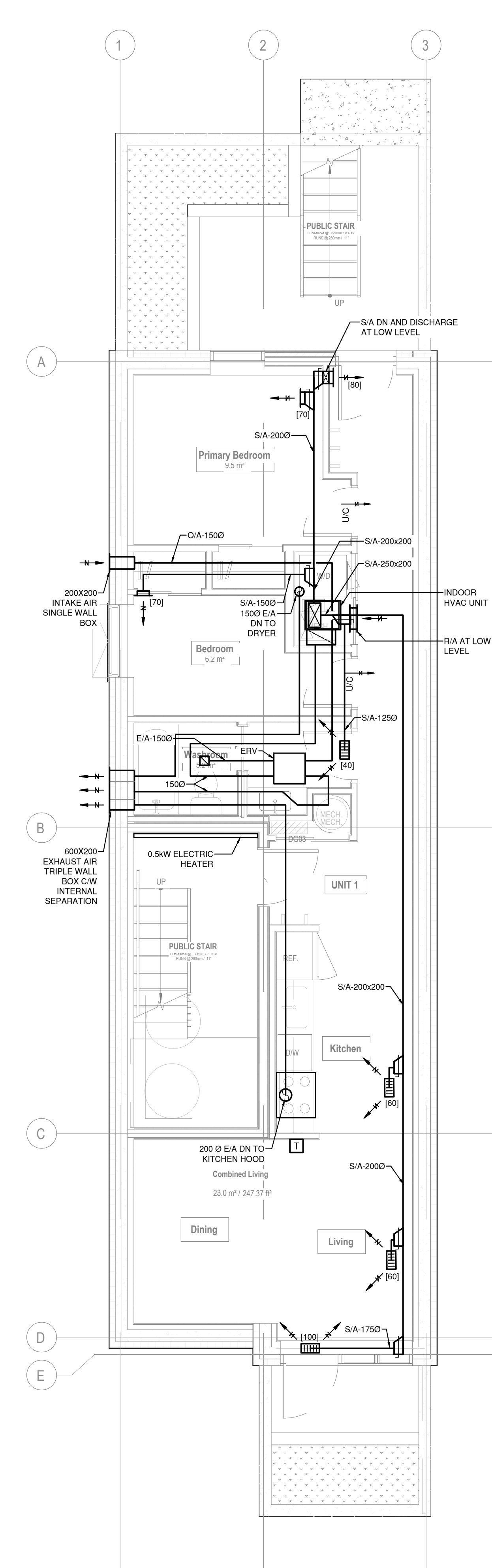
FOURPLEX NARROW
HVAC

PROJECT NO: 241058

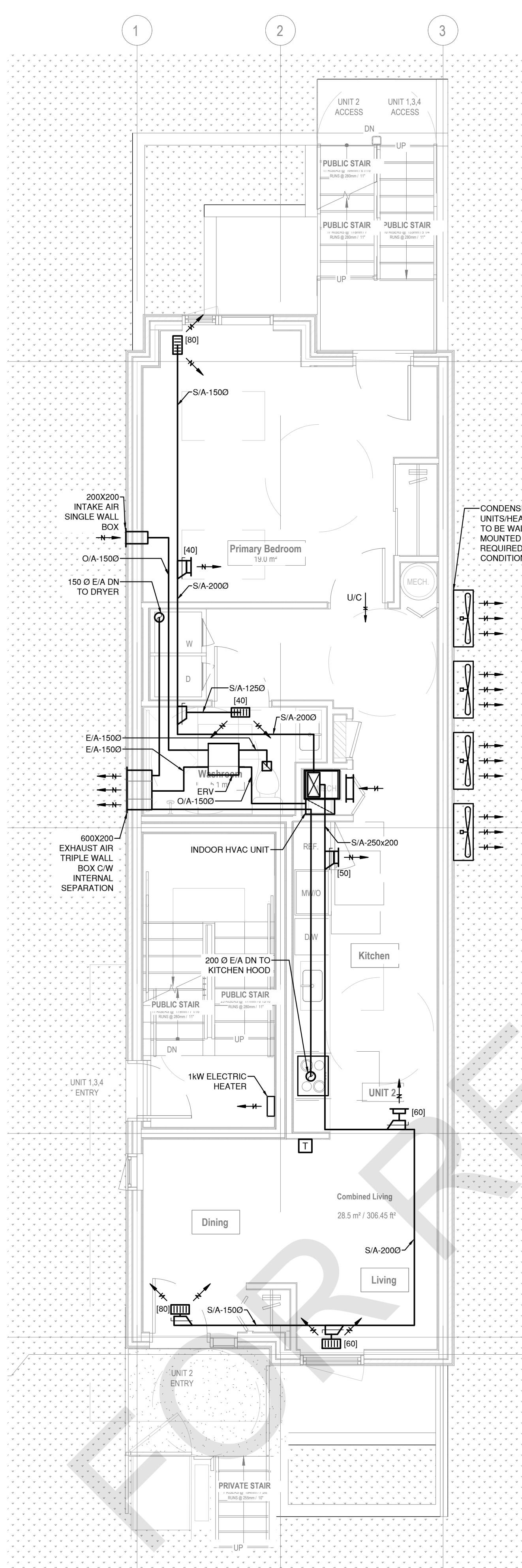
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SHEET NO.

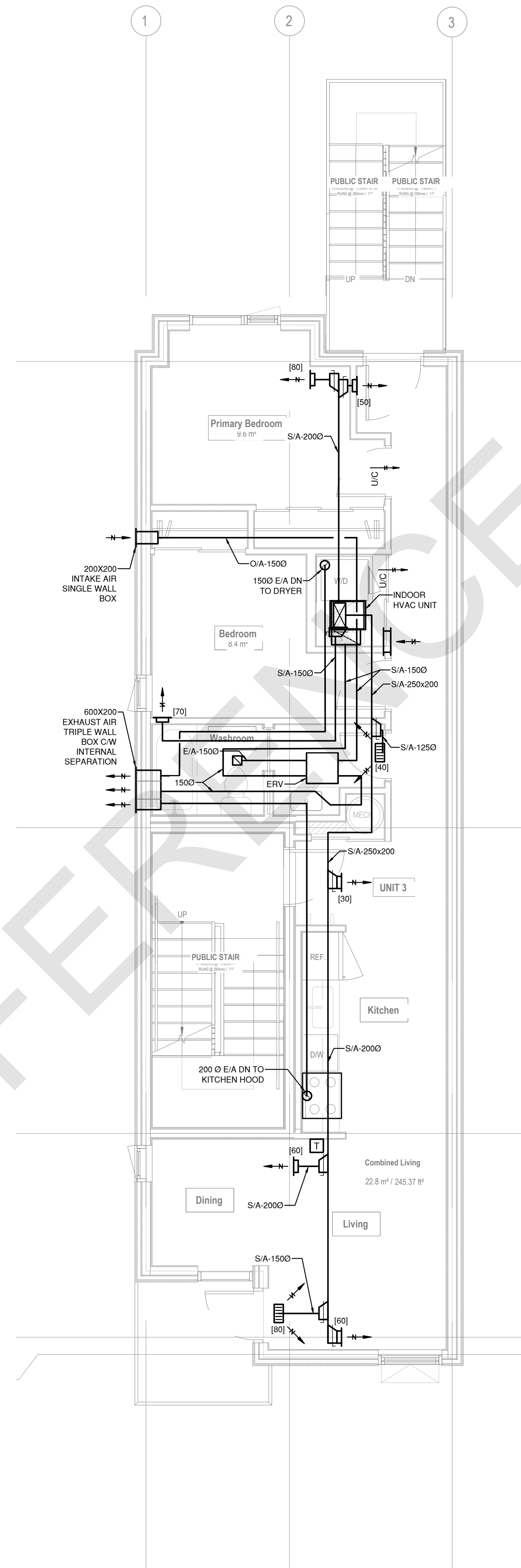
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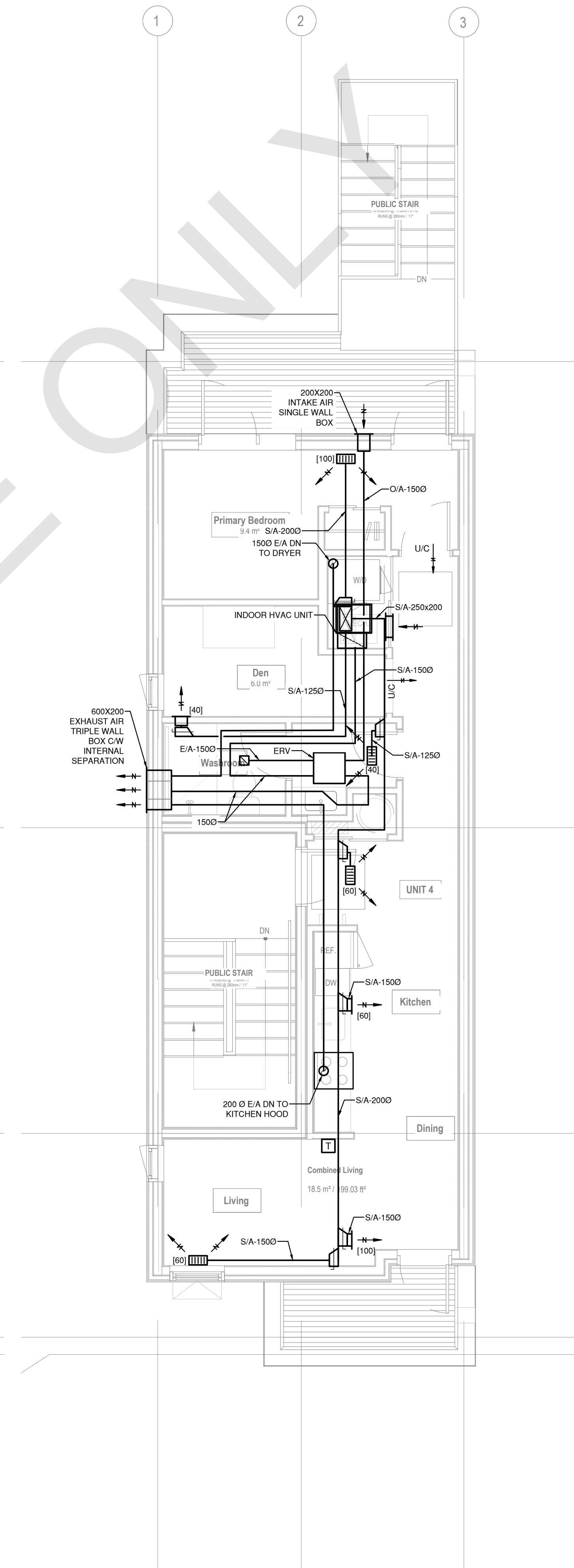
1 HVAC - BASEMENT
M102 Scale: 1:50



2 HVAC - MAIN FLOOR
M102 Scale: 1:50



3 HVAC - SECOND FLOOR
M102 Scale: 1:50



4 HVAC - THIRD FLOOR
M102 Scale: 1:50

E100

