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ÉCOLE LE PRÉLUDE MUSIC ROOM

6025 PROMENAGE LONGLEAF, ORLÉANS, ONTARIO

RE-ISSUED FOR TENDER
MAY 24, 2018

ARCHITECTURAL DRAWINGS

A000	COVER PAGE
A001	GENERAL NOTES, PROJECT LEGENDS & ASSEMBLIES
A100	SITE PLAN, IMPLEMENTATION PLAN
A200	DEMOLITION - GROUND FLOOR PLAN
A201	NEW CONSTRUCTION - GROUND FLOOR PLAN
A240	ROOF PLAN
A301	NEW CONSTRUCTION - REFLECTED CEILING PLAN
A400	ELEVATIONS - KEYPLAN & NEW CONSTRUCTION
A500	NEW CONSTRUCTION - BUILDING SECTIONS & INTERIOR ELEVATIONS
A510	NEW CONSTRUCTION - TYPICAL WALL SECTIONS
A511	NEW CONSTRUCTION - TYPICAL WALL SECTIONS
A600	NEW CONSTRUCTION - PLAN DETAILS
A610	NEW CONSTRUCTION - SECTION DETAILS

LANDSCAPE DRAWINGS

L100	LANDSCAPE LAYOUT PLAN, PAVEMENT ASSEMBLIES, DETAILS
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STRUCTURAL DRAWINGS

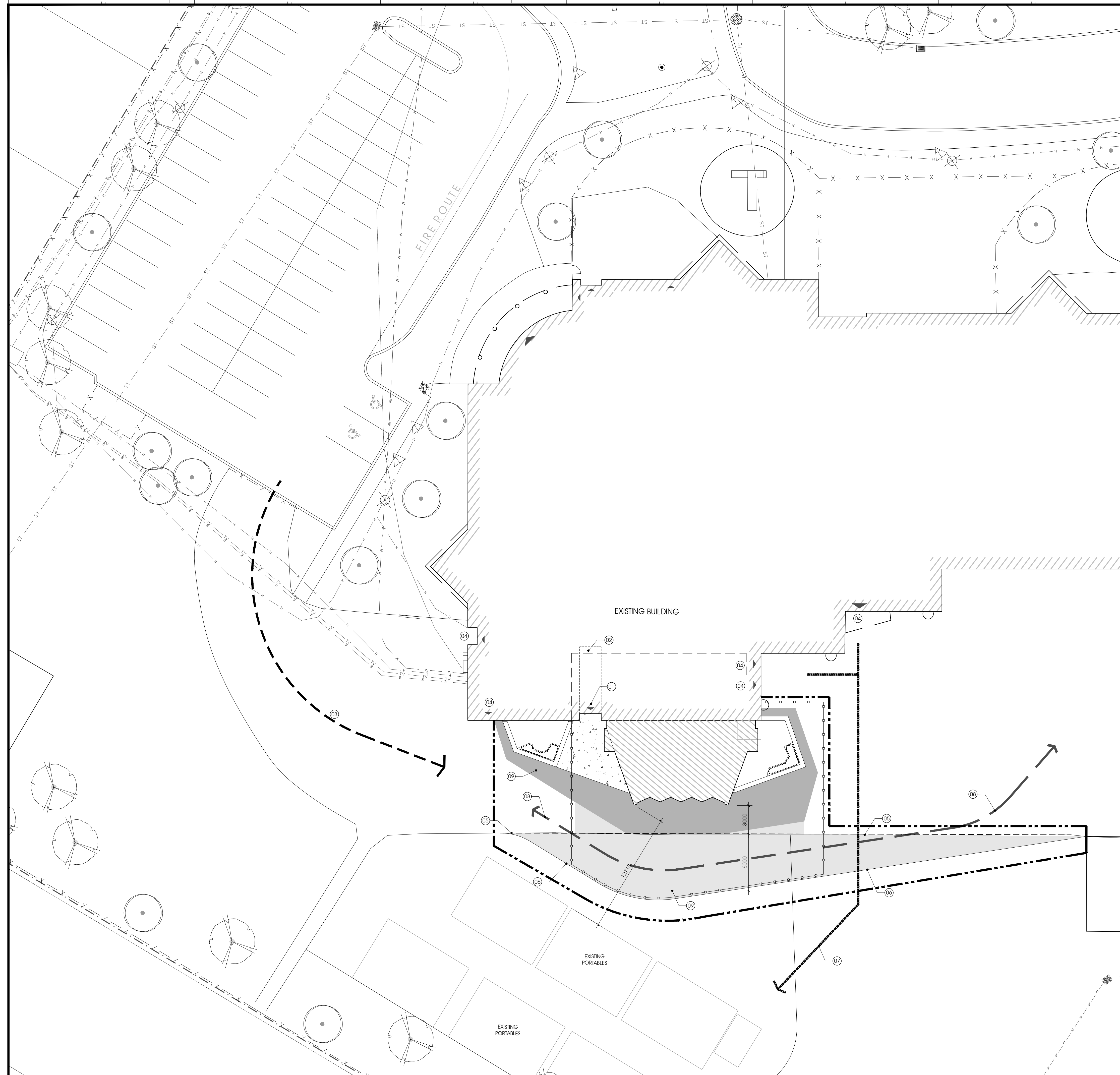
S-100	SPECIFICATIONS, LEGENDS
S-101	STRUCTURAL DETAILS
S-102	STRUCTURAL DETAILS
S-200	LIGHTING AND FIRE ALARM LAYOUT
S-201	GROUND FLOOR PLAN
S-202	ROOF FRAMING PLAN
S-300	FOUNDATION SECTIONS
S-301	FOUNDATION SECTIONS
S-302	SECTIONS
S-400	ELEVATIONS

MECHANICAL DRAWINGS

M-100	LEGENDS, SPECIFICATIONS AND DRAWING LIST
M-200	PARTIAL GROUND FLOOR PLAN FIRE PROTECTION LAYOUT NEW WORK
M-300	PARTIAL GROUND FLOOR PLAN PLUMBING LAYOUT NEW WORK
M-400	PARTIAL GROUND FLOOR PLAN HVAC LAYOUT NEW WORK
M-401	EQUIPMENT SCHEDULE AND PARTIAL ROOF PLAN HVAC LAYOUT NEW WORK
M-500	PARTIAL GROUND FLOOR PLAN CONTRALS LAYOUT NEW WORK

ELECTRICAL DRAWINGS

E-100	SPECIFICATIONS, LEGEND AND DRAWING LIST
E-101	KEYPLAN AND SCHEDULES
E-200	GROUND FLOOR LIGHTING NEW WORK LAYOUT
E-300	GROUND FLOOR AND ROOF POWER AND SYSTEMS LAYOUT
ED-100	GROUND FLOOR LIGHTING, POWER AND SYSTEMS DEMOLITION



SITE PLAN

- PROPERTY LINE
- [Hatched Box] EXISTING BUILDING AREA
- [Dotted Box] PROPOSED BUILDING AREA
- [Dark Grey Box] NEW ASPHALT PAVING TO BE REINSTITATED
- [Light Grey Box] NEW ASPHALT PAVING AND GRANULAR BASE
- LINE OF SCOPE OF WORK
- [Dashed Line] APPROXIMATE LINE OF 2.4m HIGH, MODULAR CONSTRUCTION EXTERIOR FENCE & REQUIRED GATE ACCESS
- [Dotted Line] APPROXIMATE LINE OF INTERIOR BUILDING & HOARDING & DUST PROTECTION
- [X-X-X-X] EXISTING FENCE
- [Wheel Symbol] BARRIER FREE ACCESSIBLE PARKING MARKING
- [Triangle Symbol] BUILDING ENTRANCES & EXITS
- [S-S Symbol] STANDPIPE SAMEZE CONNECTION
- [HY Symbol] FIRE HYDRANT
- [Light Post Symbol] LIGHT POST
- [Sign Post Symbol] SIGN POST
- [CB Symbol] CATCH BASIN
- [MH Symbol] MANHOLE
- [WV Symbol] WATER VALVE
- [Tree Symbol] EXISTING CONIFEROUS TREE TO REMAIN, PROTECT FROM DAMAGE
- [Tree Symbol] EXISTING DECIDUOUS TREE TO REMAIN, PROTECT FROM DAMAGE
- [H Line] EXISTING HYDRO LINE, UNDERGROUND
- [B Line] EXISTING BELL LINE, UNDERGROUND
- [SAN Line] EXISTING SANITARY LINE, UNDERGROUND
- [STM Line] EXISTING STORM LINE, UNDERGROUND
- [W Line] EXISTING WATER LINE, UNDERGROUND
- [GAS Line] EXISTING GAS LINE, UNDERGROUND
- [TV Line] EXISTING CABLE LINE, UNDERGROUND

LEGEND SYMBOLS ARE TYPICAL AND MAY NOT ALL APPLY TO THIS SPECIFIC PROJECT.



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BUILDING PERMIT APPLICATION

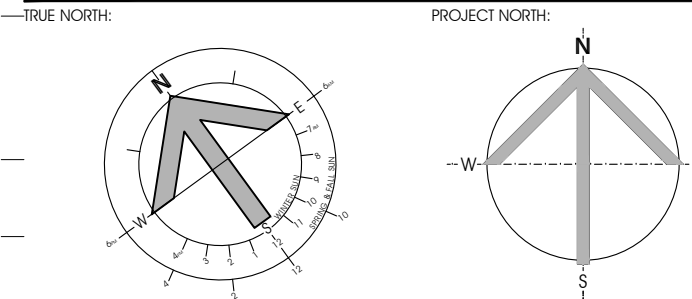
DRAWING NOTES, A100

- 01 EXISTING ENTRANCE TO BE CLOSED DURING CONSTRUCTION. COORDINATE WITH OWNER.
- 02 PROVIDE TEMPORARY HOARDING, DIRECTIONAL SIGNAGE AND OTHER MEASURES TO TEMPORARILY RE-ROUTE EXITING TO OTHER LOCATIONS.
- 03 APPROXIMATE LINE OF CONSTRUCTION ACCESS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR AND REINSTATEMENT OF SCHOOL PROPERTY DUE TO CONSTRUCTION ACTIVITY.
- 04 EXISTING ENTRANCE TO BE MAINTAINED.
- 05 LINE OF EXISTING EXTENTS OF ASPHALT PAVING.
- 06 LINE OF NEW ASPHALT PAVING TO MAINTAIN FIRE-ROUTE.
- 07 RECOMMENDED PEDESTRIAN CIRCULATION TO SCHOOL YARD AND PORTABLE CLASS ROOMS.
- 08 LINE OF REVISED FIRE TRUCK ROUTING.
- 09 REFER TO DRAWING L100 FOR EXISTING & NEW SITE LAYOUT DETAILS.

REVISION	DATE (MM/DD/YY)
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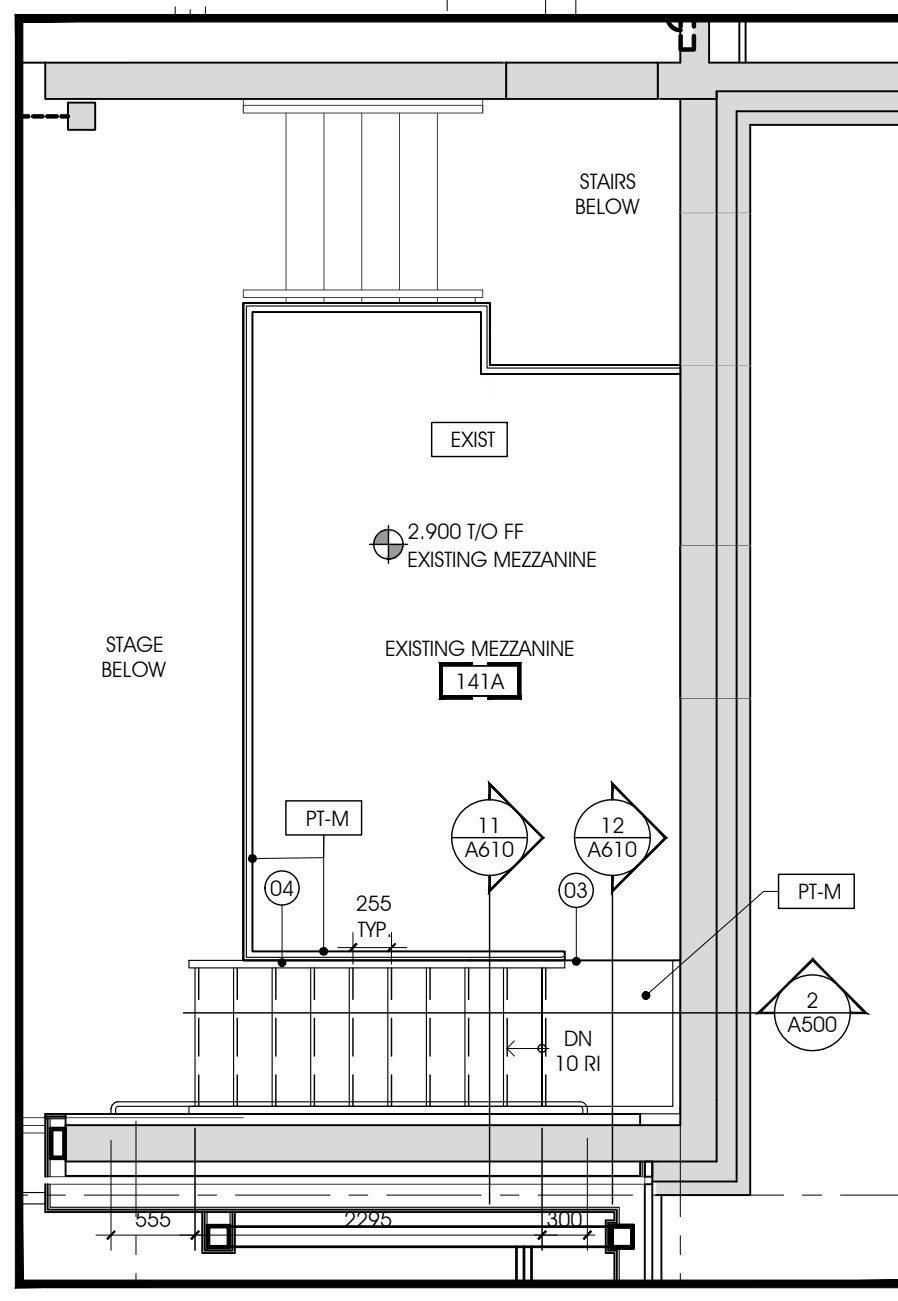
PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
6025 PROMENADE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:
**SITE PLAN
IMPLEMENTATION PLAN**

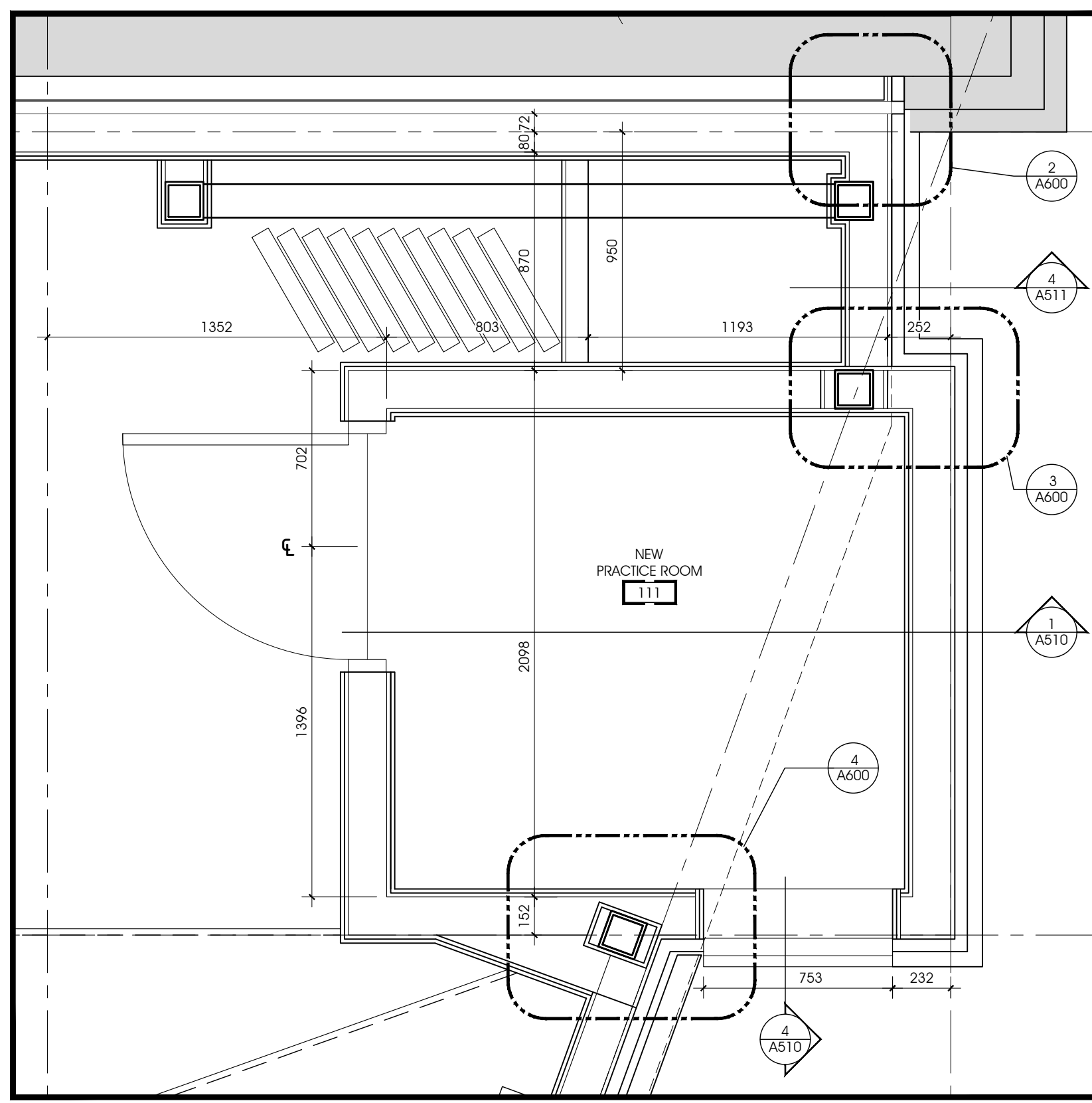
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DATE: 2018-05-30	
REVIEWED BY: DR	
APPROVED BY: DR	
PRINT DATE: 2018-05-24	REVISION NUMBER:
DESIGNED FOR: TENDER	
DATE: 2018-05-30	
CLIENT PROJECT #:	PROJECT #:
	1553

SITE PLAN
A100 1:200

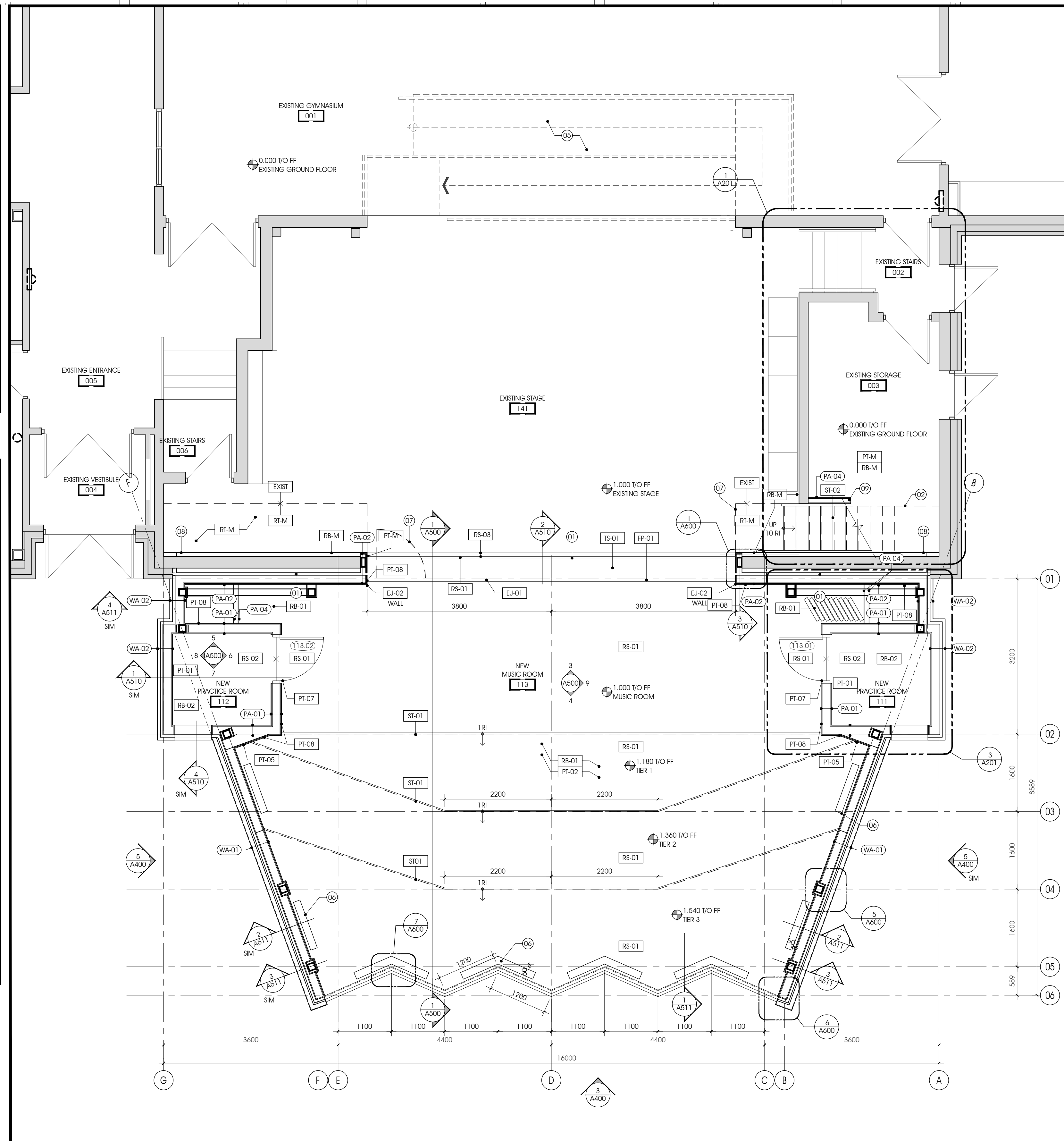
5/30/2018 4:59:28 PM © 2018 the project@2018 project@1553 le prelude music room@C:\Users\1553\A100.dwg



1 MEZZANINE - FLOOR PLAN
A201 1:50



3 FOLDING PANEL PLAN
A201 1:20

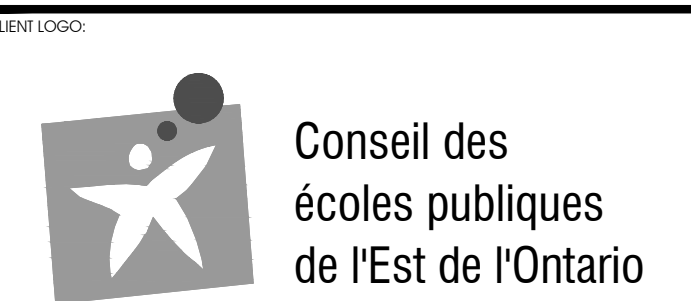


2 NEW CONSTRUCTION - FLOOR PLAN
A201 1:50

DRAWING LEGEND, A201

	NEW DOOR
	FLOOR DRAIN
	FIRE EXTINGUISHER CABINET, REFER TO MECHANICAL
	TYPICAL MECHANICAL UNIT, REFER TO MECHANICAL
	DOUBLE ROUND HOLLOW COLUMNS, REFER TO STRUCTURAL
	SQUARE HOLLOW COLUMN, REFER TO STRUCTURAL
	STAND PIPE SIAMESE CONNECTION
	STAIR NOSING TYPE
	RESILIENT TILE TO MATCH
	EXPANSION JOINT TYPE
	RESILIENT SHEET TYPE
	FOLDING PARTITION TYPE
	FLOORING TRANSITION STRIP TYPE
	PAINT TO MATCH EXISTING
	PAINT COLOUR
	RUBBER BASE TYPE
	RUBBER BASE TO MATCH EXISTING

LEGEND SYMBOLS ARE TYPICAL AND MAY NOT ALL APPLY TO THIS SPECIFIC PROJECT.



CLIENT LOGO

KEY PLAN

ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

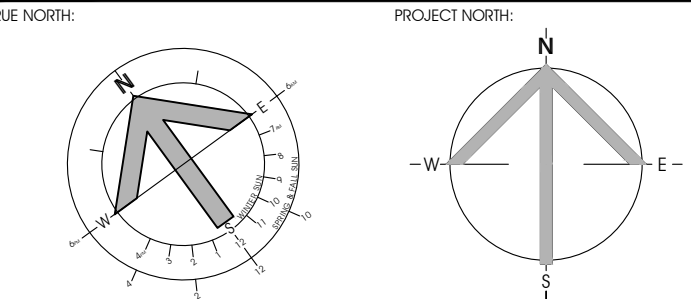
DRAWING NOTES, A201

- 01 LINE OF NEW PREFINISHED FLOOR EXPANSION JOINT.
- 02 LINE OF NEW METAL STAIR ABOVE.
- 03 LINE OF EXISTING CONCRETE FLOOR TO STEEL LANDING TRANSITION.
- 04 PATCH AND MAKE GOOD EXISTING STEEL GUARDRAIL TO ALLOW FOR CONTINUOUS TRANSITION TO NEW GUARDRAIL EXTENSION.
- 05 NEW BARRIER FREE RAMP EQUIPMENT BY OWNER, N.I.C.
- 06 PREFINISHED ALUMINUM FLOOR GRILLES REFER TO MECHANICAL.
- 07 LOCATION OF FOLDING PARTITION, MAIN DOOR.
- 08 PROVIDE ONE LAYER 12mm GYPSUM BOARD LAMINATED TO NEW STRUCTURAL CONCRETE WALL. GYPSUM BOARD TO BE FULL WIDTH, CONTINUOUS, & TO 5300 ABOVE FINISHED FLOOR. PROVIDE NEW PAINT FINISH TO MATCH EXISTING STAGE, & NEW RUBBER BASE TO MATCH.
- 09 NEW PARTITION ASSEMBLY TO INFILL STORAGE ROOM FROM NEW METAL STAIR & RETURNED TO UNDER OF STAIR.

REVISION	DATE	BY	APP'D

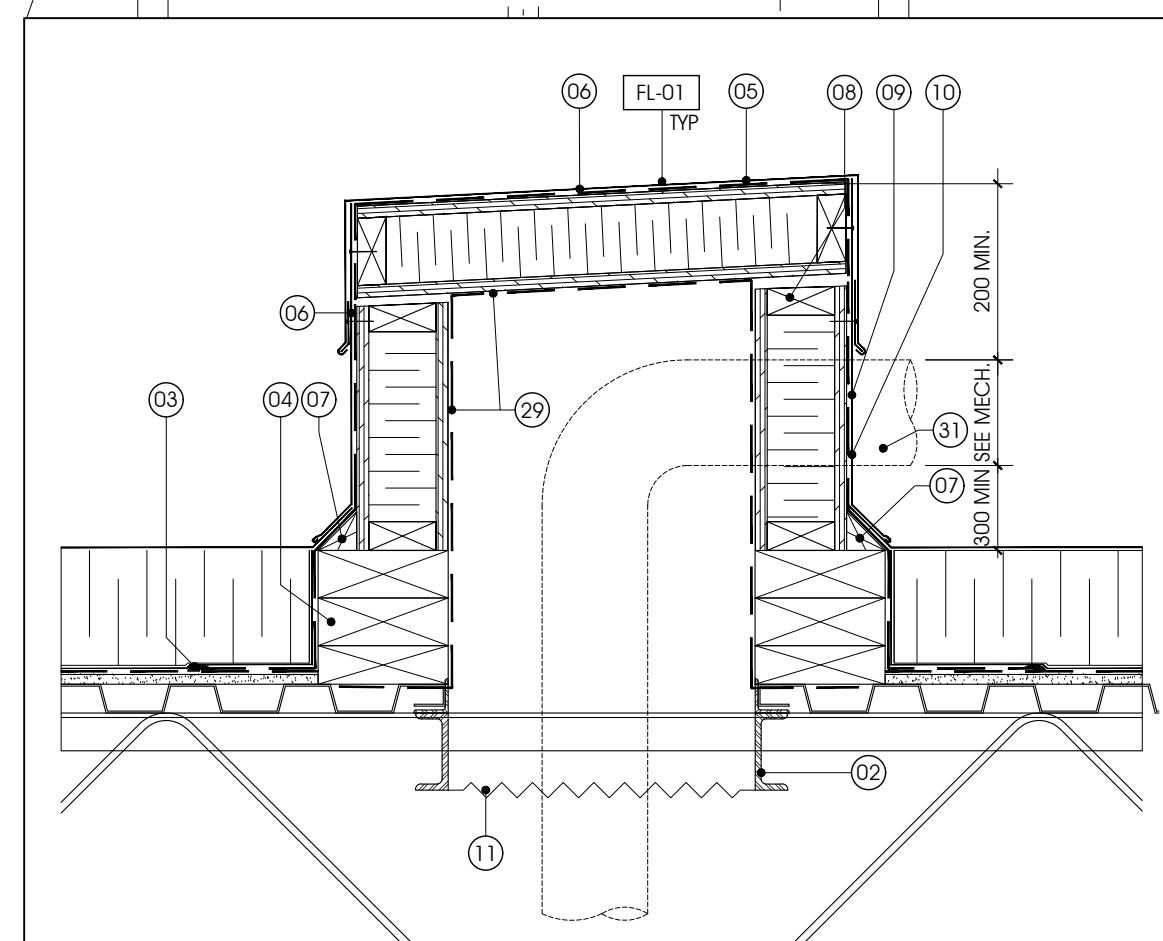


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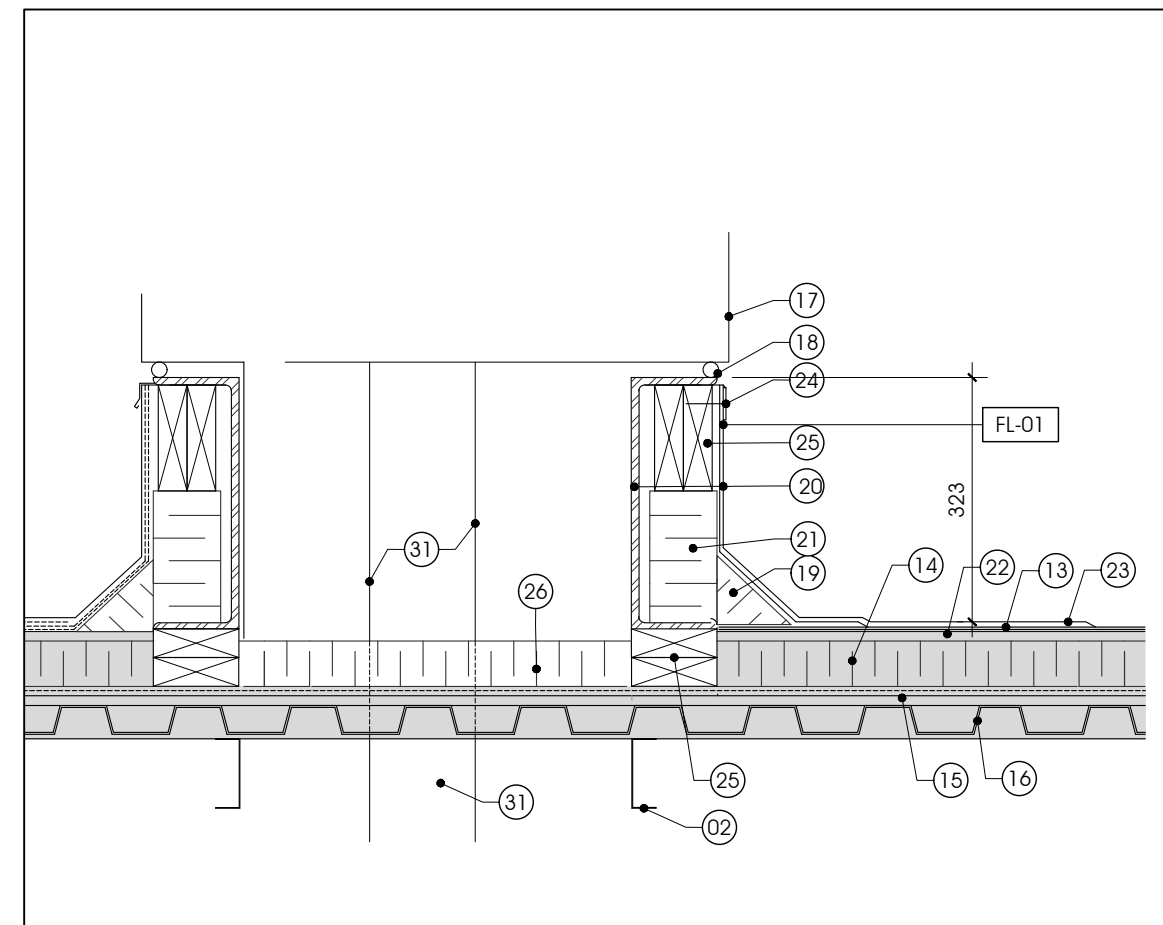


PROJECT TITLE:
ÉCOLE LE PRÉLUDE MUSIC ROOM
6025 PROMENADE LONGLEAF ORLÉANS, ON
DRAWING TITLE:
NEW CONSTRUCTION - FLOOR PLAN

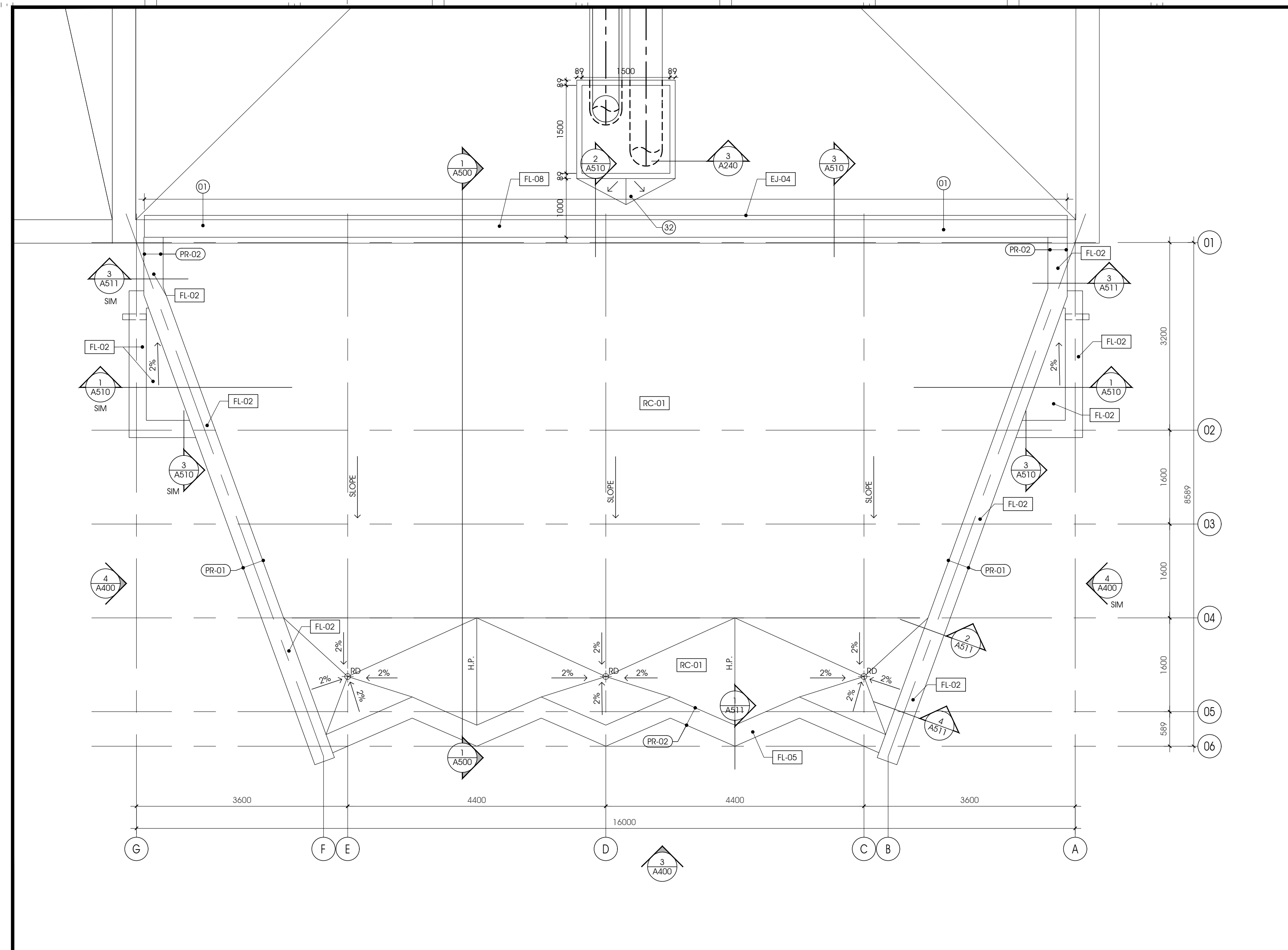
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DATE:	2018-05-30	PROJECT #:	1553
REVIEWED BY:	DR		
APPROVED BY:	DR		
PRINT DATE:	2018-05-24		
ISSUED FOR:	TENDER		
DATE:	2018-05-30		



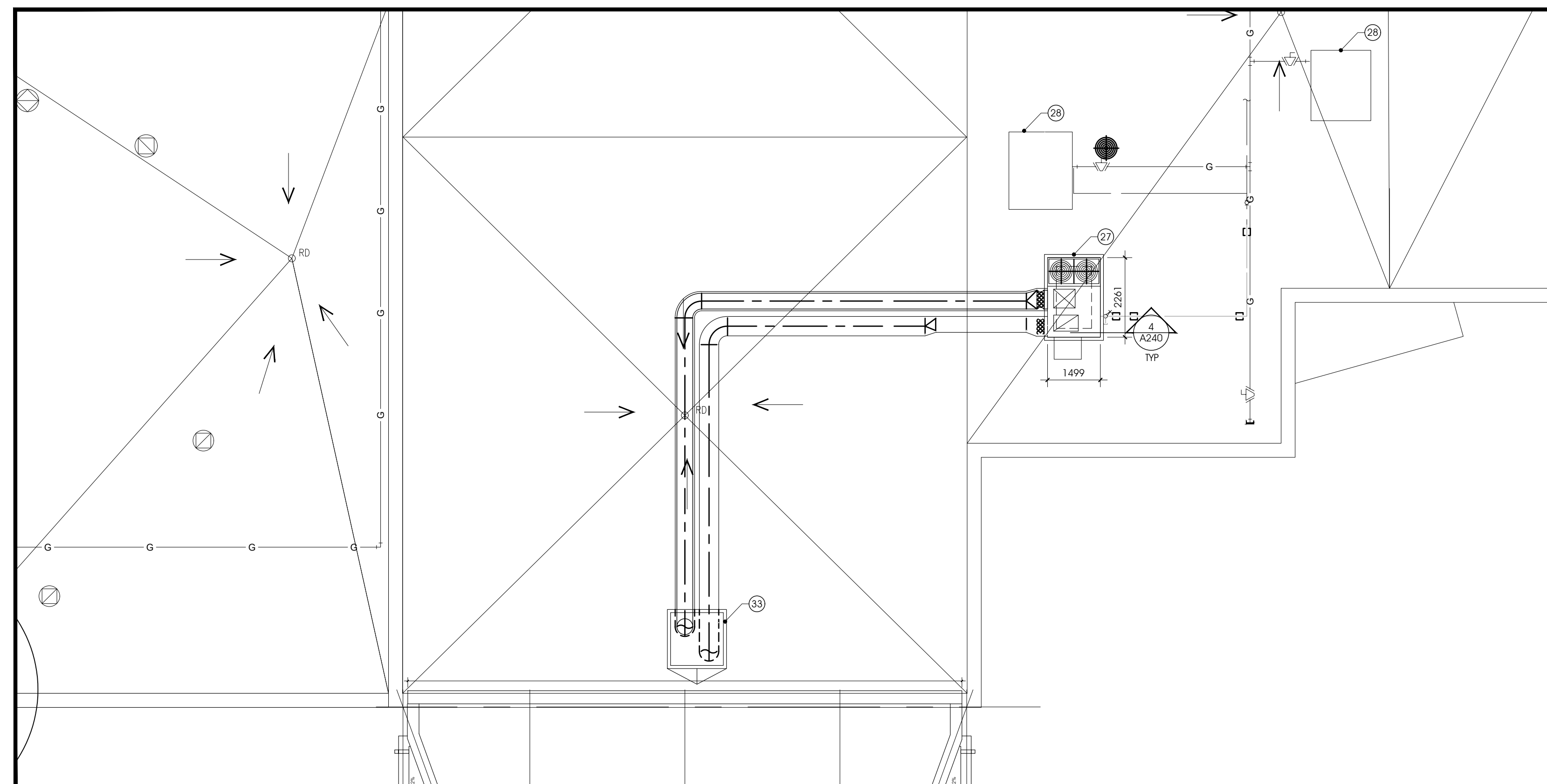
3 DETAIL FOR DUCT THROUGH EXISTING ROOF
A240 1:10



4 DETAIL OF CURB FOR MECH. UNIT ON EXISTING ROOF
A240 1:10



1 ROOF PLAN - NEW ADDITION
A240 1:50

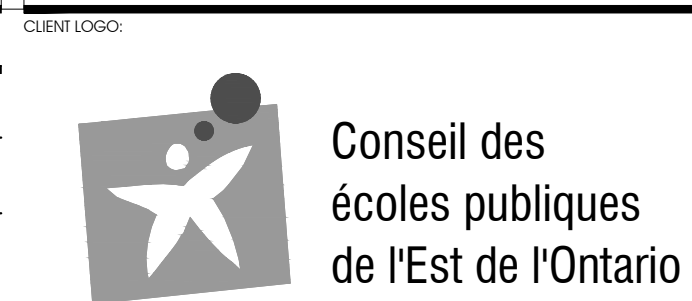


2 ROOF PLAN - MECH. UNITS ON EXISTING ROOF
A240 1:100

ROOF PLAN, A240

---	LINE OF EXTERIOR WALL BELOW.
-0.00	ROOF SLOPE
PV	NEW PLUMBING VENT, C/W FINISHED METAL COLLAR FLASHING, REFER TO MECHANICAL
=====	LINE OF PREFINISHED METAL CAP FLASHING
=====	LINE OF PREFINISHED METAL WALL/ROOF FLASHING
SLOPE 1:100	DRAINAGE SLOPE & DIRECTION
SL	STEEL LADDER
AH	ROOF ACCESS HATCH
⊠	VENTILATING UNIT, REFER TO MECHANICAL DRAWINGS
EH	MECHANICAL EXHAUST, REFER TO MECHANICAL DRAWINGS
RD	ROOF DRAIN, REFER TO STRUCTURAL & MECHANICAL
■	SLOPED INSULATION AREAS & AROUND MECHANICAL UNITS
□	SCUPPER
EJ-XX	EXPANSION JOINTS
FL-XX	PREFINISHED METAL FLASHING
RC-XX	ROOF CONNECTION

LEGEND SYMBOLS ARE TYPICAL AND MAY NOT ALL APPLY TO THIS SPECIFIC PROJECT.



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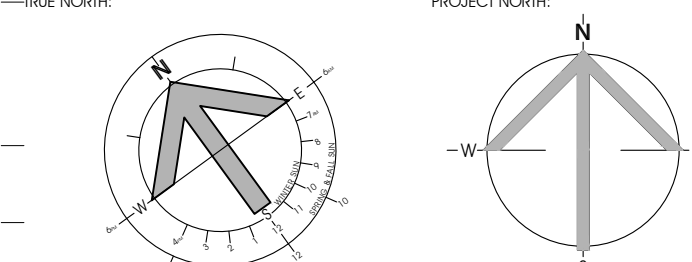
DRAWING NOTES, A240

- EXISTING PARAPET CAP FLASHING TO BE REMOVED FOR NEW FLASHING FOR JOINT BETWEEN NEW AND EXISTING.
- NEW STRUCTURAL OPENING FOR MECHANICAL. REFER TO STRUCTURAL.
- ROOF MEMBRANE FLASHING & COUNTER FLASHING.
- 38x190 PRESSURE TREATED WOOD BLOCKING, CONTINUOUS.
- PREFINISHED METAL FLASHING ON 38x89 PRESSURE-TREATED WOOD FRAMING, AND 19mm MARINE GRADE PLYWOOD. PROVIDE 89mm RIGID INSULATION IN VOIDS C/W SPRAY FOAM INSULATION TO SEAL.
- PROVIDE CONCEALED FASTENERS & METAL TREATED TO SECURE ALL PREFINISHED METAL FLASHINGS. FASTENERS TO INCLUDE SELF-SEALING WASHERS TO SEAL GAPS, 300mm O.C. MAXIMUM.
- CONTINUOUS FIBREBOARD CANT STRIP.
- SIZES FOR NEW DOGHOUSE TO BE: 38x89 PRESSURE-TREATED WOOD BLOCKING & 19mm MARINE GRADE PLYWOOD. PROVIDE 89 RIGID INSULATION IN ALL VOIDS INCLUDING SPRAY FOAM TO SEAL.
- PROVIDE FOAM BARE ROD & CAULKING THROUGH ALL PENETRATIONS. PROVIDE PREFABRICATION, PREFINISHED METAL FLASHING COLOR AT DUCTWORK.
- RESERVED
- PROVIDE HEAVY GAUGE STEEL SECURITY MESH OR WELDED IRON GRILLE WELDED SECURELY TO STRUCTURE OPENING.
- MASTIC AND MESH.
- EXISTING MOD. BIT. ROOF MEMBRANE
- EXISTING ROOF INSULATION.
- EXISTING VAPOUR BARRIER
- EXISTING ROOF DECK
- NEW AHU, REF TO MECHANICAL
- CONTINUOUS NEOPRENE GASKET.
- FIBRE BOARD CANT STRIP.
- PREFABRICATION ROOF CURB BY AHU MANUFACTURER. SEE MECHANICAL.
- NEW RIGID INSULATION.
- PROVIDE OVERLAY BOARD ON TOP OF INSULATION.
- BASE AND CAP FLASHING MEMBRANE
- CONTINUOUS PRESSURE BAR W/ CONTINUOUS SEALANT.
- PRESSURE TREATED WOOD BLOCKING (CUT TO SUIT)
- 100mm THICK RIGID INSULATIONS.
- NEW MECHANICAL ROOF TOP UNIT, REFER TO MECHANICAL.
- EXISTING MECHANICAL ROOF OF UNITS TO REMAIN.
- LINE OF CONSCIOUS VAPOUR BARRIER, TIED INTO ROOF ASSEMBLY MEMBRANE.
- NEW PREFINISHED METAL CAP FLASHING OVER

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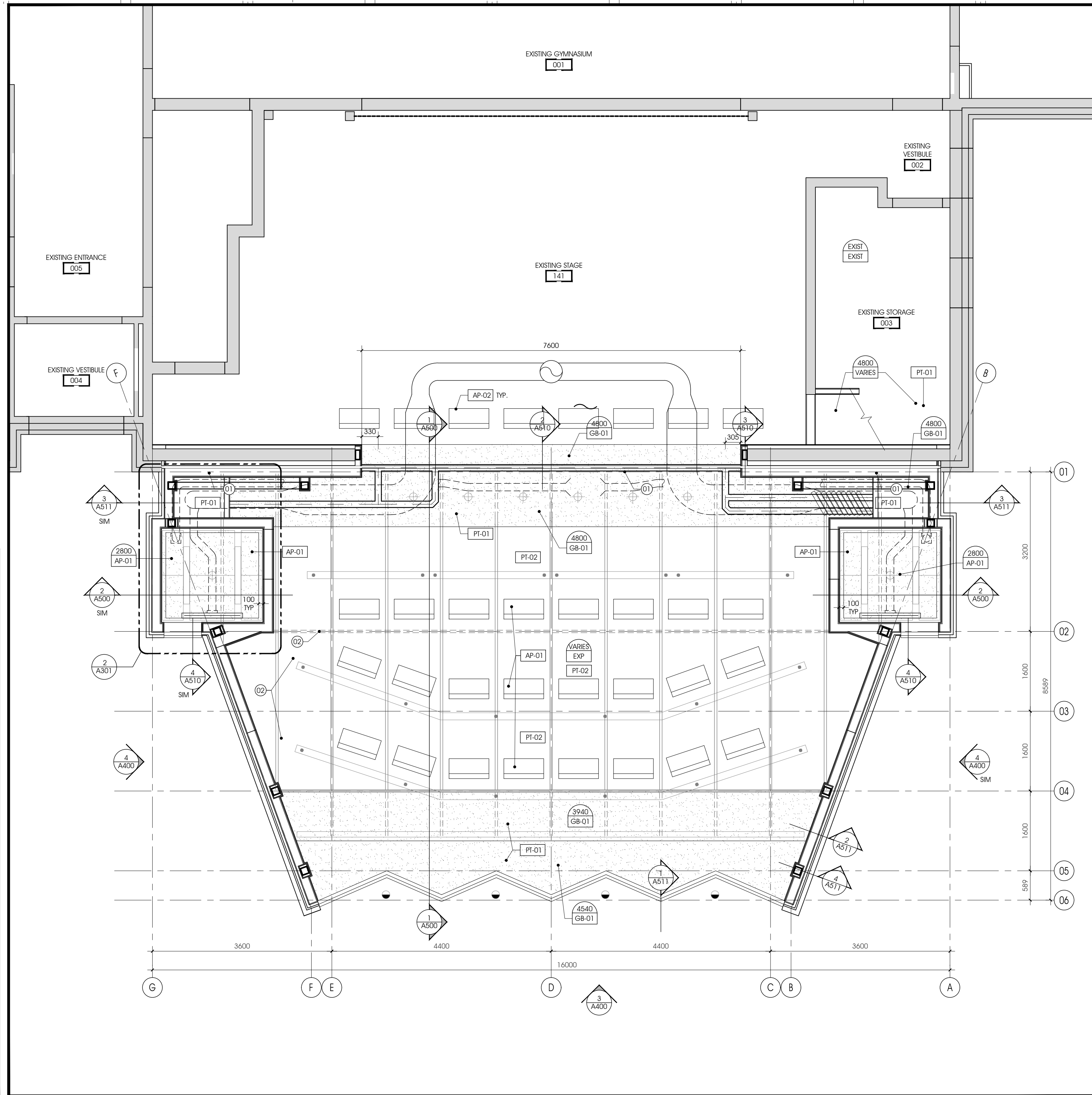
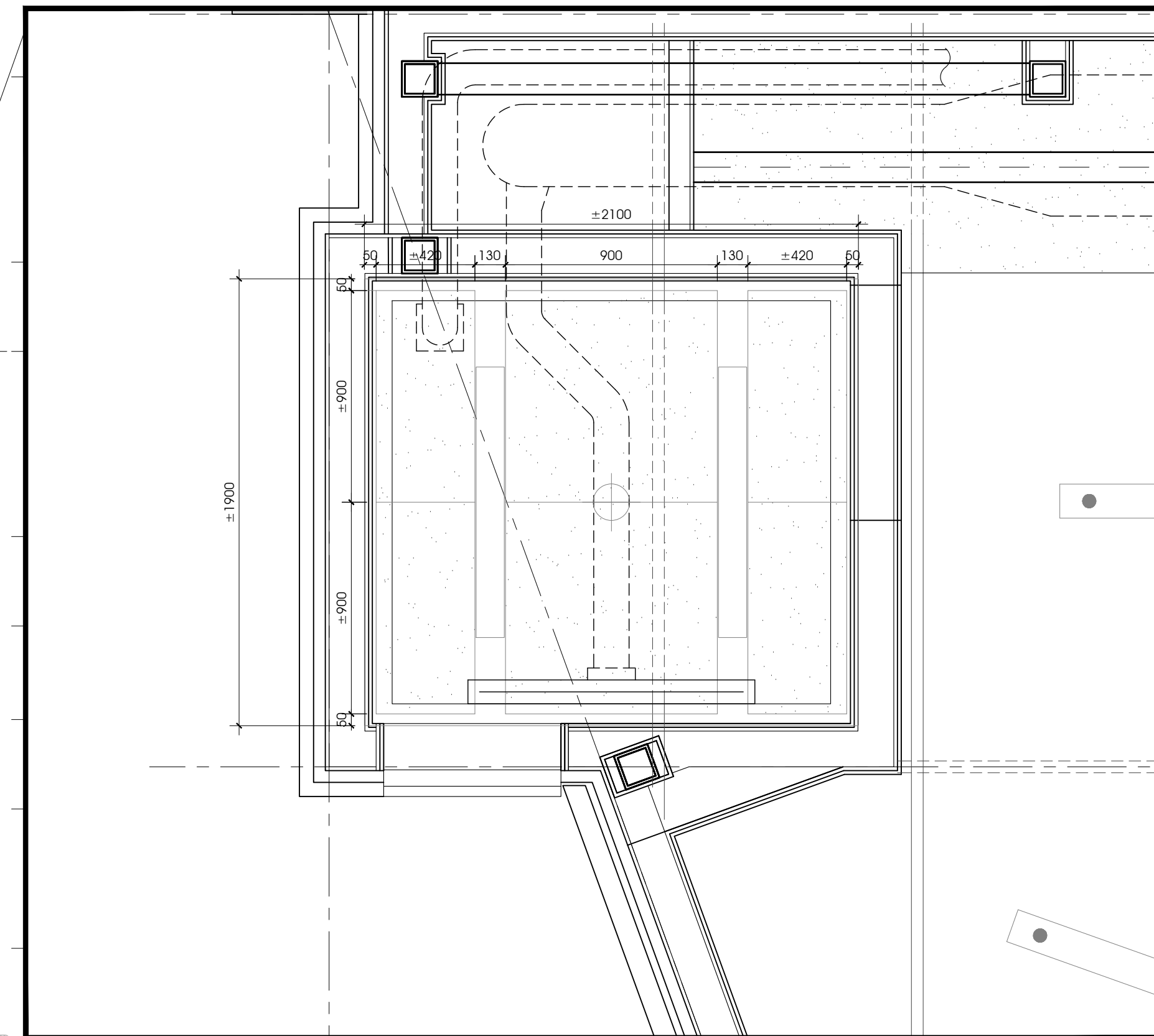
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PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
**6025 PROMENADE LONGLEAF
ORLÉANS, ON**
DRAWING TITLE:
**ROOF PLAN
ROOF DETAILS**

DRAWN BY:	DFR/SX	DRAWING NUMBER:	A240
DATE:	2018-05-30	REVISION NUMBER:	
REVIEWED BY:	DR	PROJECT #:	1553
APPROVED BY:	DR	CLIENT PROJECT #:	
PRINT DATE:	2018-05-22		
DESIGNED FOR:	TENDER		
DATE:	2018-05-30		

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REFLECTED CEILING PLAN, A301

- CEILING HEIGHT MARKER
- CEILING HEIGHT ABOVE FINISH FLOOR
- CEILING MATERIAL
- 0 HOUR FIRE RESISTANCE RATING OR ASSEMBLY, SMOKE SEPARATION, WALL TO US OF STRUCTURE AND/OR DECK
- 30 MINUTES FIRE RESISTANCE RATING OR ASSEMBLY, TO US OF STRUCTURE AND/OR DECKING.
- 1 HOUR FIRE RESISTANCE RATING OR ASSEMBLY, TO US OF STRUCTURE AND/OR DECKING.
- ACOUSTICAL TILE CEILING GRID
- RECESSED FLUORESCENT LUMINAIRE, REFER TO ELECTRICAL DRAWINGS.
- SURFACE MOUNTED FLUORESCENT LUMINAIRE, REFER TO ELECTRICAL DRAWINGS.
- ACOUSTICS PANEL TYPE
- GYPSUM BOARD TYPE
- PAINT TYPE
- EMERGENCY EXIT LIGHTING, REFER TO ELECTRICAL DRAWINGS
- SURFACE MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- FLUORESCENT LUMINAIRE, REFER TO ELECTRICAL DRAWINGS
- EXIT SIGN
- RETURN AIR, REFER TO MECHANICAL DRAWINGS
- DIFFUSERS, REFER TO MECHANICAL DRAWINGS
- CEILING FAN, REFER TO MECHANICAL DRAWINGS
- HOSE BIB, REFER TO MECHANICAL DRAWINGS.
- STRUCTURE SUSPENDED BASKETBALL NET, COORDINATE WITH STRUCTURAL



CLIENT LOGO

KEY PLAN

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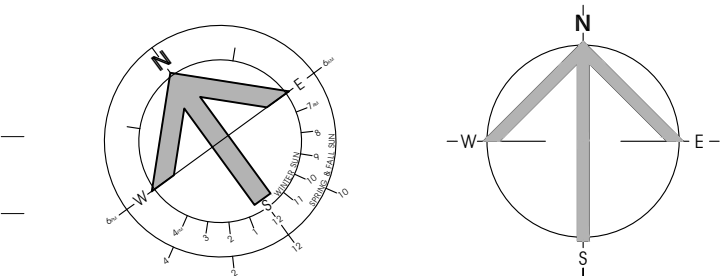
DRAWING NOTES, A301

- 01 EXISTING STORAGE ROOM CEILING TO BE PAINTED. TO MATCH IN WITH NEW WORK.
- 02 LINE OF STAIR LEVEL BELOW.

REVISION	DATE	BY	APP'D
01			
02			



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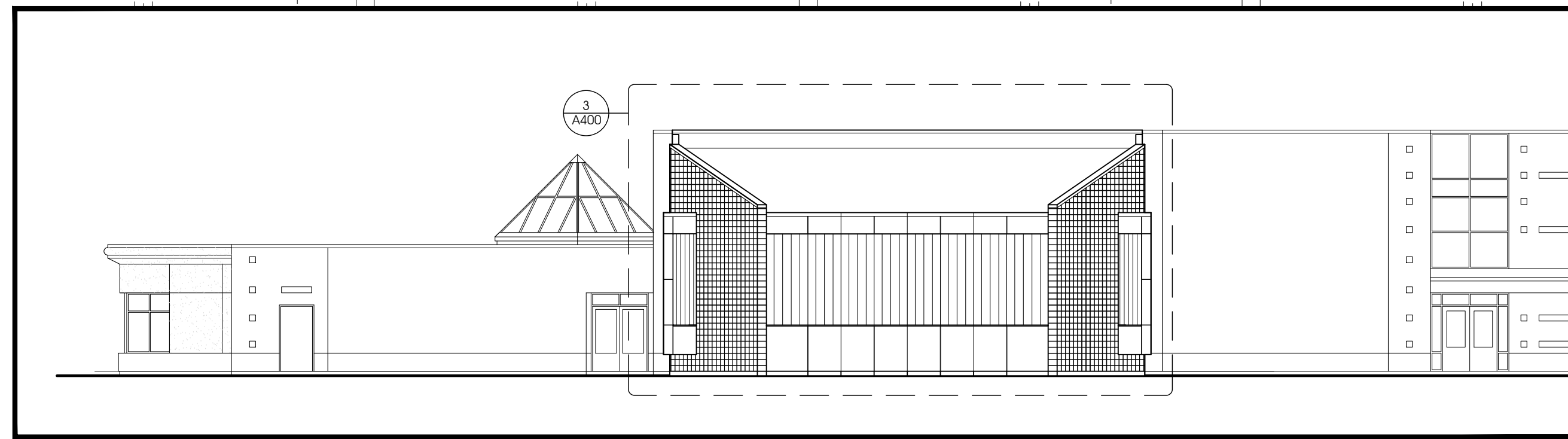
2 PRACTICE ROOM - ACOUSTICAL CEILING PANEL LAYOUT
A301 1:20

1 NEW CONSTRUCTION - REFLECTED CEILING PLAN
A301 1:30

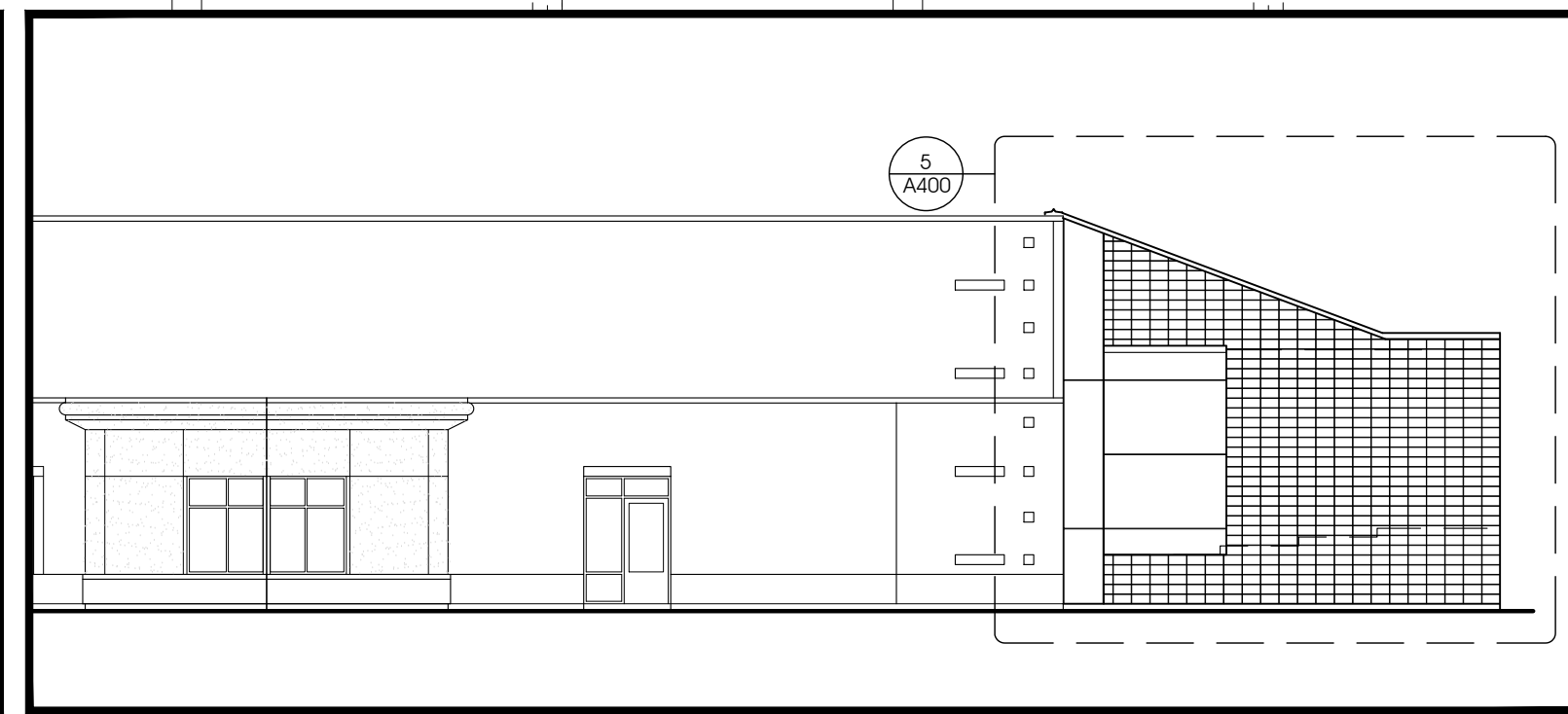
PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM
6025 PROMENADE LONGLEAF
ORLÉANS, ON
DRAWING TITLE:
NEW CONSTRUCTION - REFLECTED
CEILING PLAN

DRAWN BY:	DFR/SX	DRAWING NUMBER:	A301
DATE:	2018-05-30		
REVIEWED BY:	DR		
APPROVED BY:	DR		
PRINT DATE:	2018-05-24	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-30		
CLIENT PROJECT #:		PROJECT #:	1553

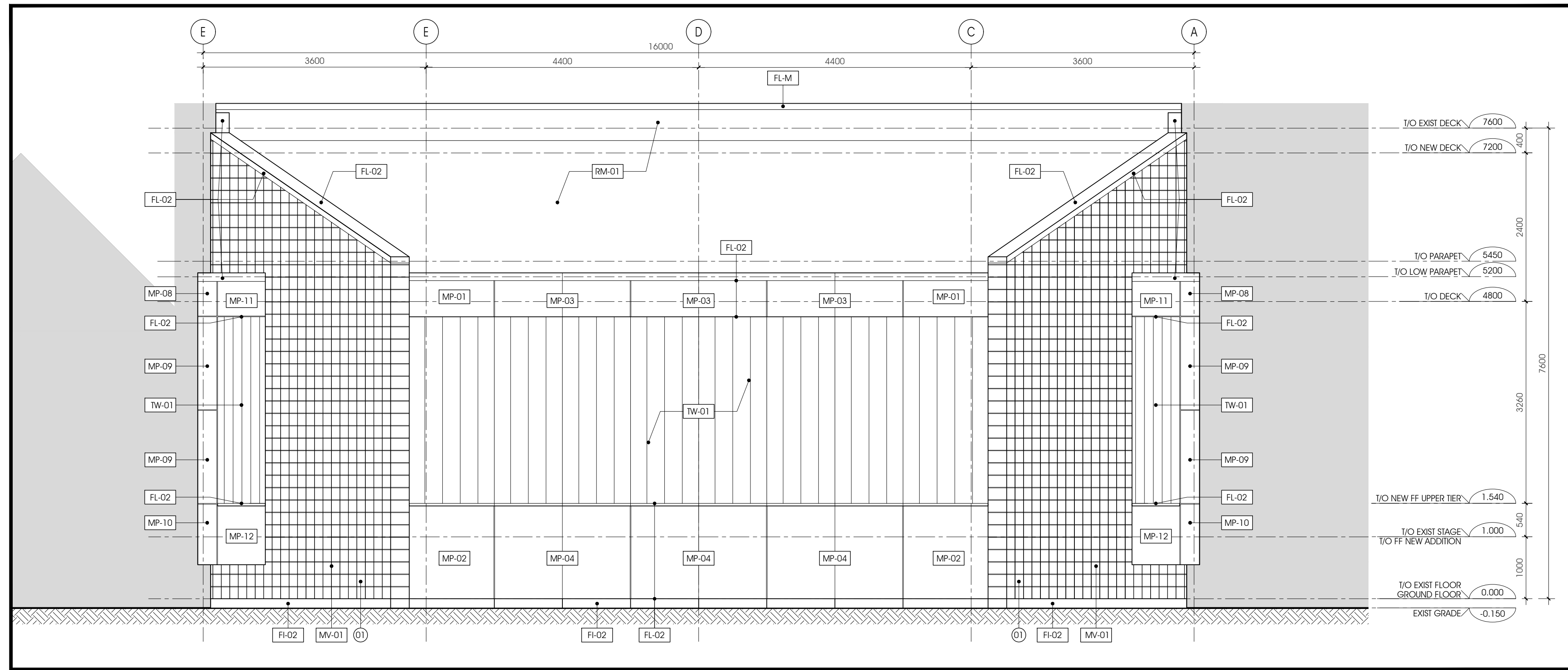
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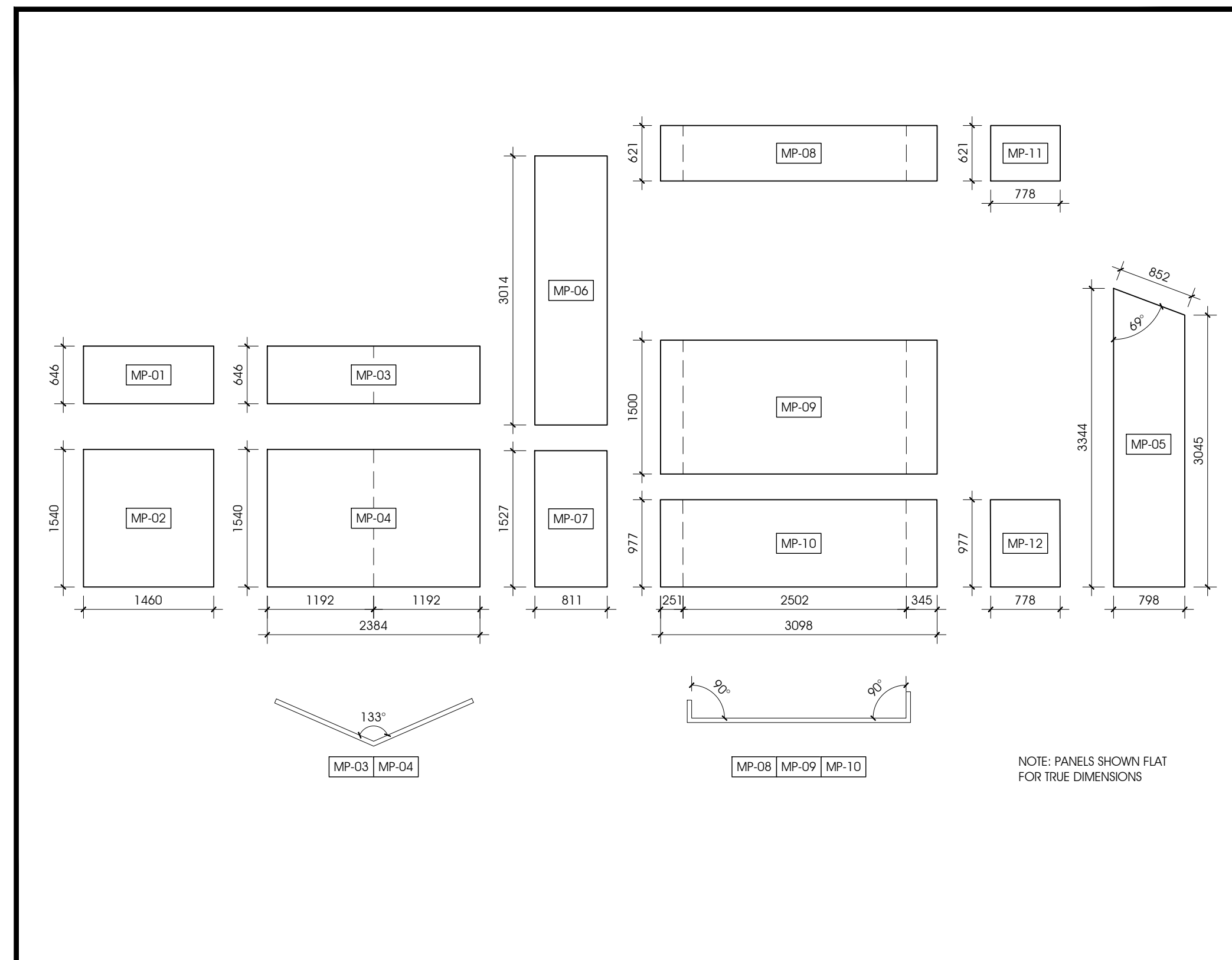
1 SOUTH ELEVATION - KEY PLAN
A400 1:150



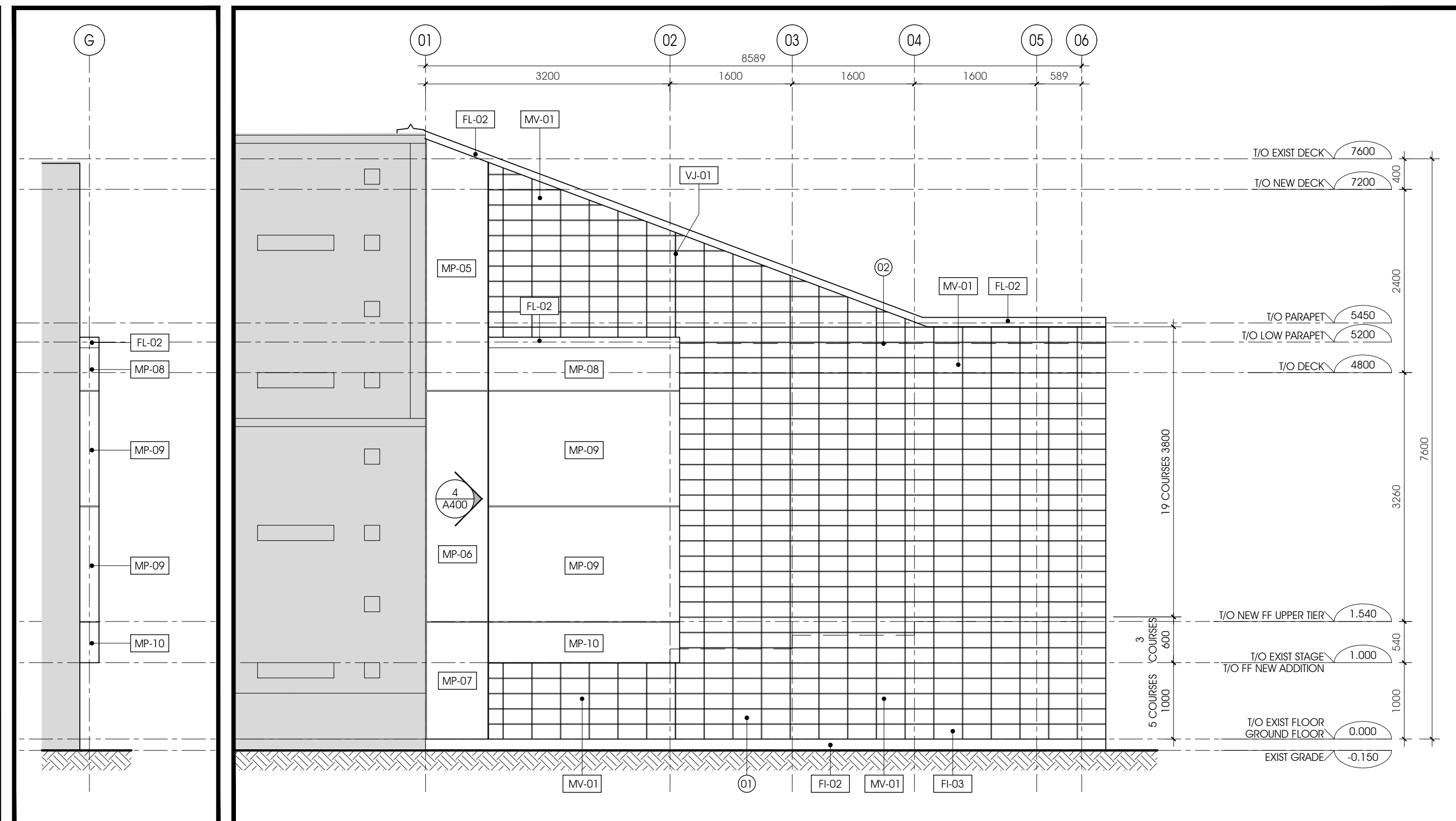
2 WEST ELEVATION - KEY PLAN
A400 1:150



3 SOUTH ELEVATION
A400 1:50



4 COMPOSITE PANEL PLAN PROFILES
A400 1:50



5 PANEL ELEVATION
A400 1:50

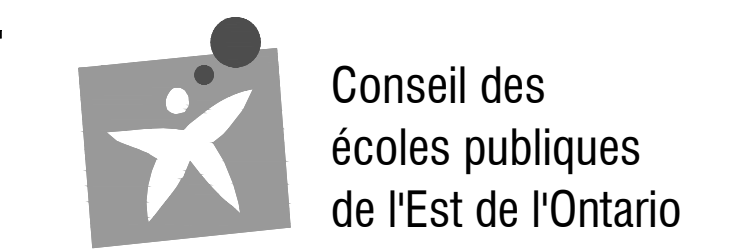
6 WEST ELEVATION (EAST ELEVATION MIRROR IMAGE)
A400 1:50

NOTE: MASONRY VENEER IS SLOPED IN ELEVATION. NOT TRUE DIMENSION.
METAL PANELS ARE TRUE-FACE ON ELEVATION. REFER TO PLANS.

DRAWING NOTES A400

- 01 MASONRY VENEER WALLS NOT SHOWN IN FLAT VIEW. REFER TO FLOOR PLANS FOR ACTUAL DIMENSIONS.
- 02 LINE OF MASONRY VENEER SHELF ANGLE.

CLIENT LOGO



KEY PLAN

ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

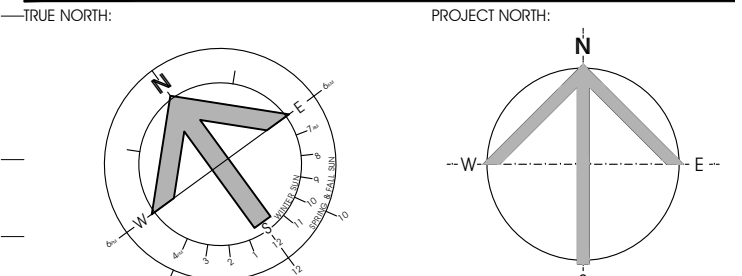
LEGEND A400

- FL-XX PREFINISHED METAL FLASHING.
- FL-M PREFINISHED METAL FLASHING TO MATCH EXISTING.
- MP-XX PREFINISHED METAL PANEL.
- TW-XX TRANSLUCENT WALL ASSEMBLY.
- MV-XX MASONRY VENEER TYPE.
- FI-02 PREFINISHED PARGING BOARD.
- VJ-01 MASONRY VENEER CONTROL JOINT.

REVISION	DATE	BY	CHKD
1			
2			
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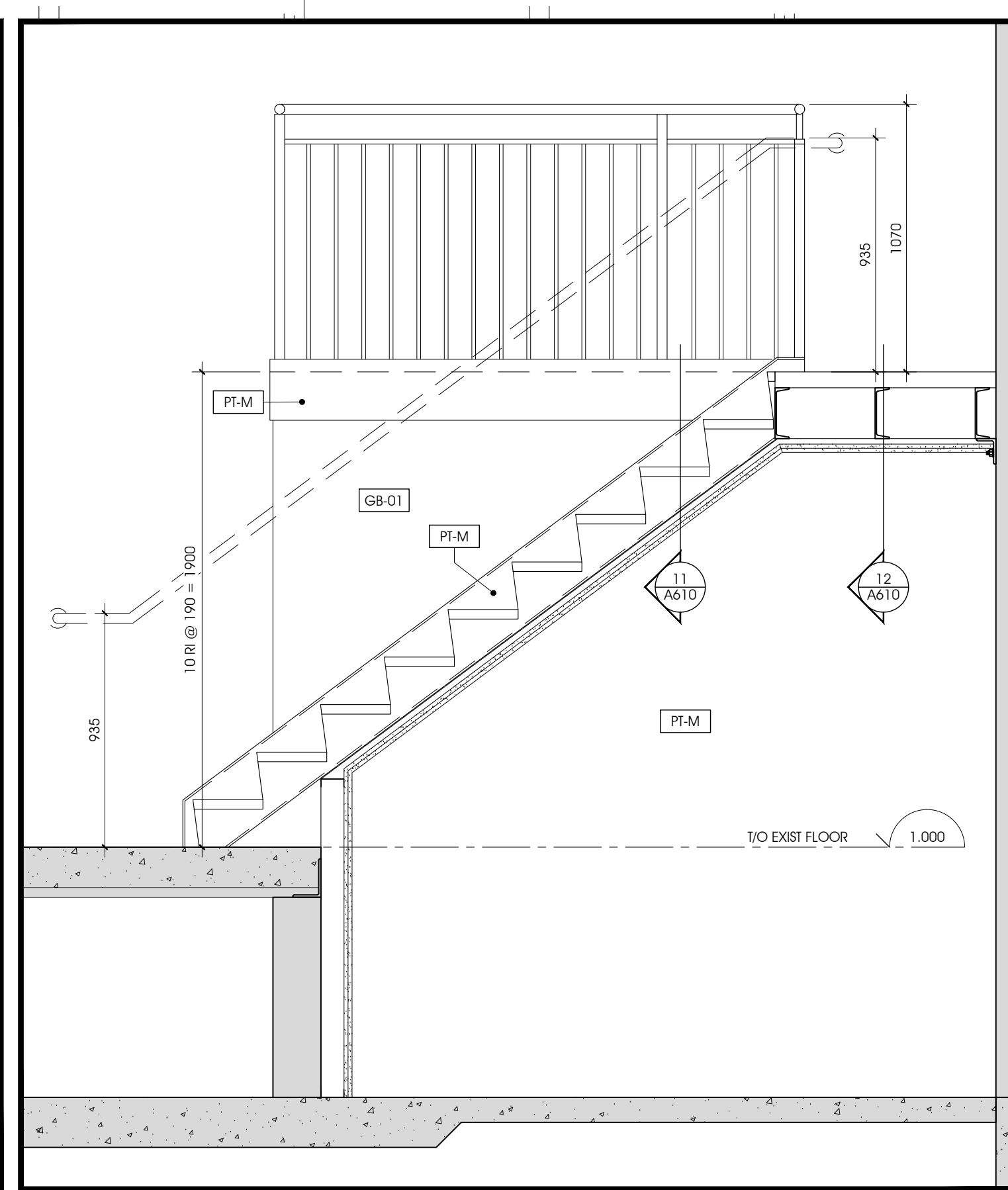
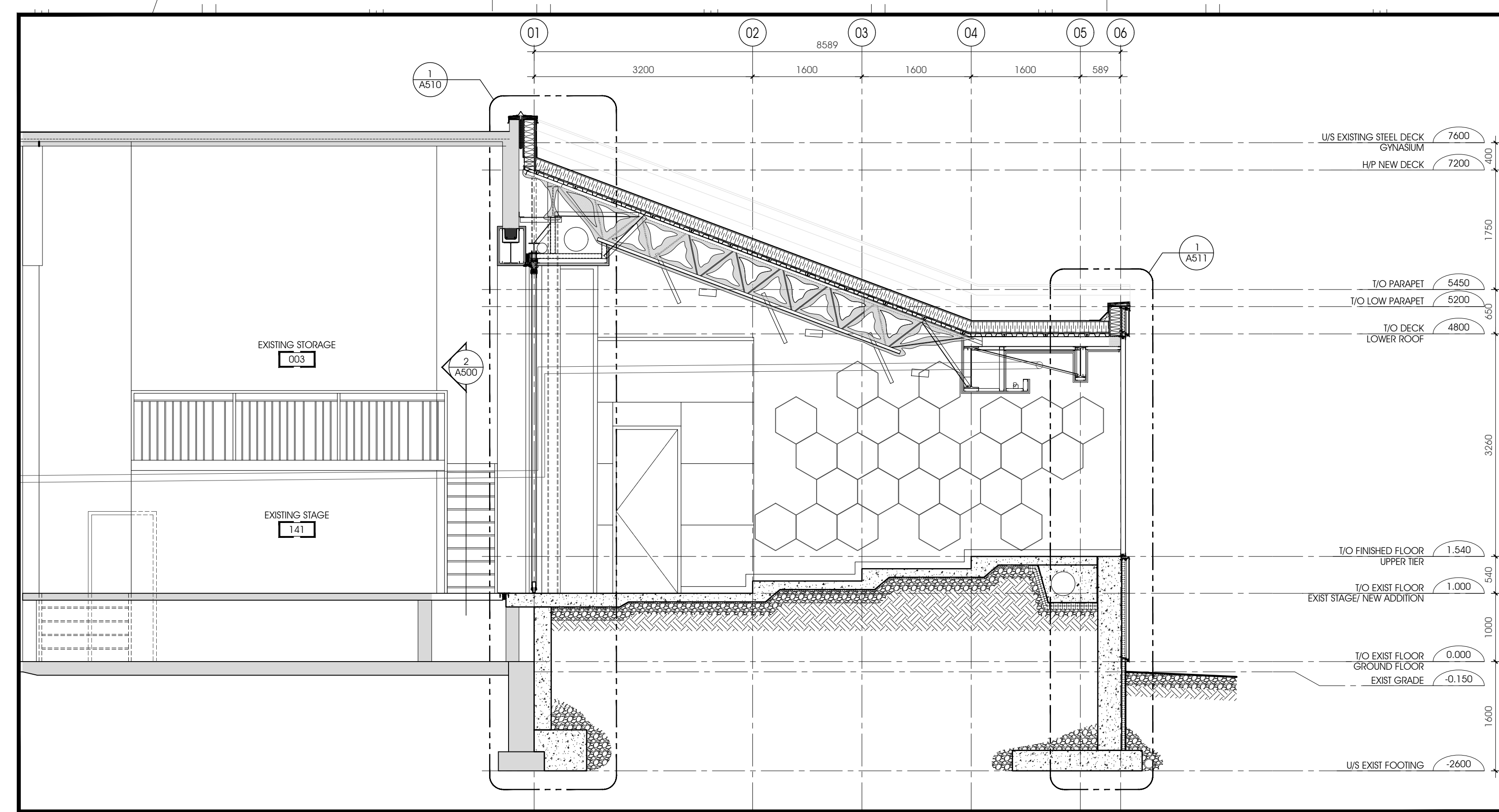
PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
6025 PROMENADE LONGLEAF
ORLÉANS, ON
DRAWING TITLE:
**ELEVATIONS - KEY PLAN
NEW CONSTRUCTION**

DRAWN BY:	DATE:	2018-05-30	SK	DRAWING NUMBER:
REVIEWED BY:	DATE:		DR	
APPROVED BY:	DATE:	2018-05-24	DR	
ISSUED FOR:	DATE:	2018-05-30	TENDER	
CLIENT PROJECT #:	PROJECT #:			

A400

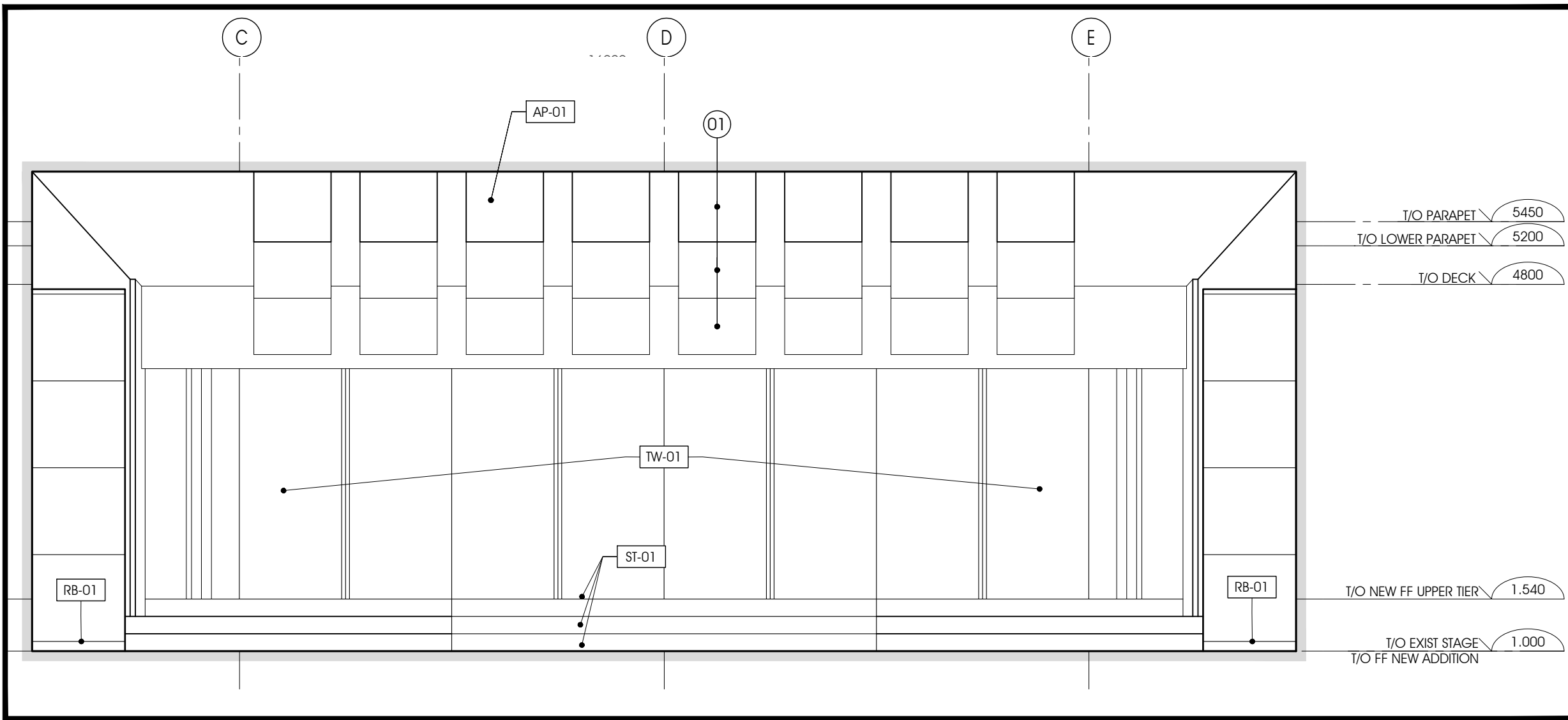
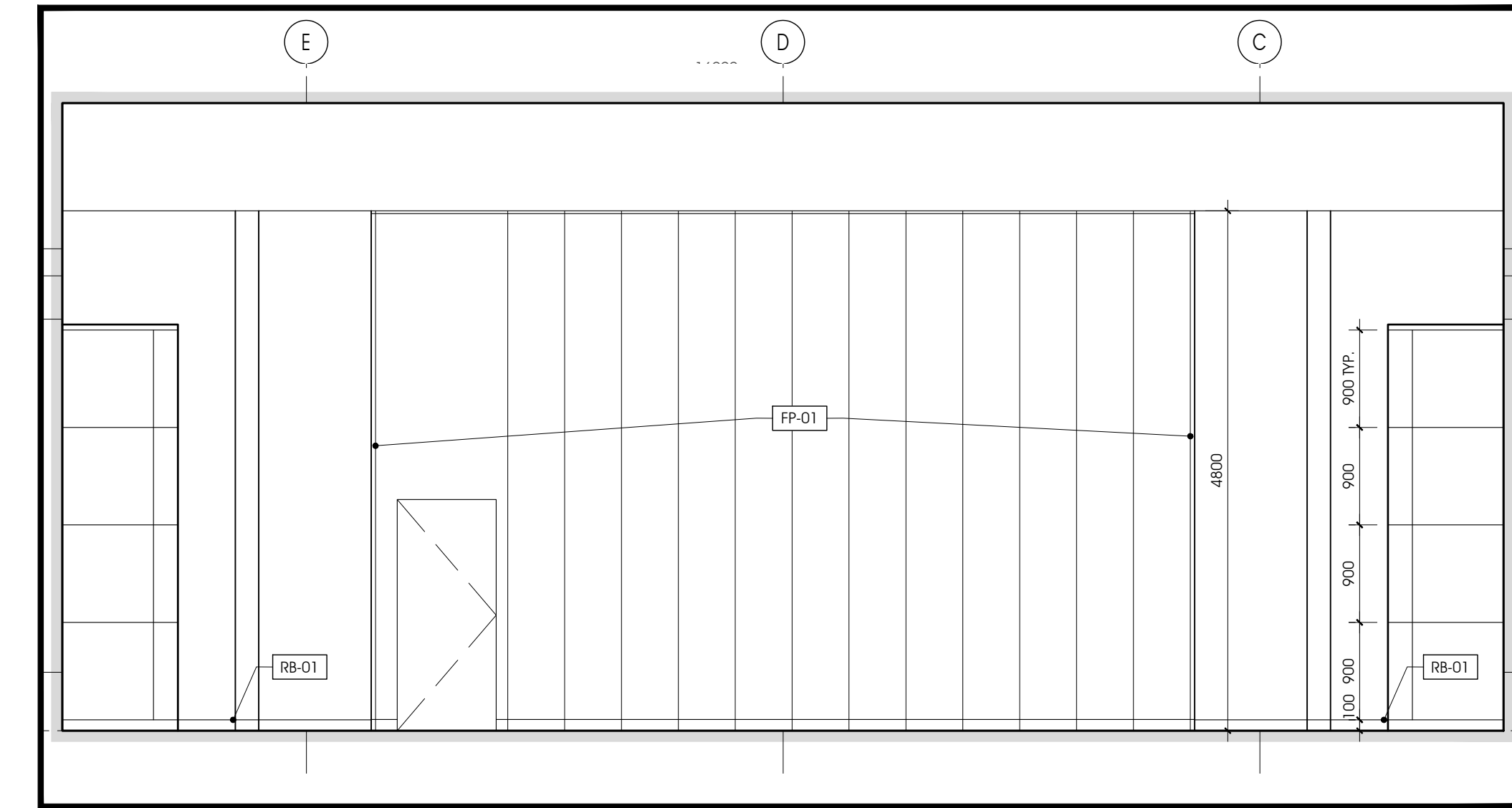
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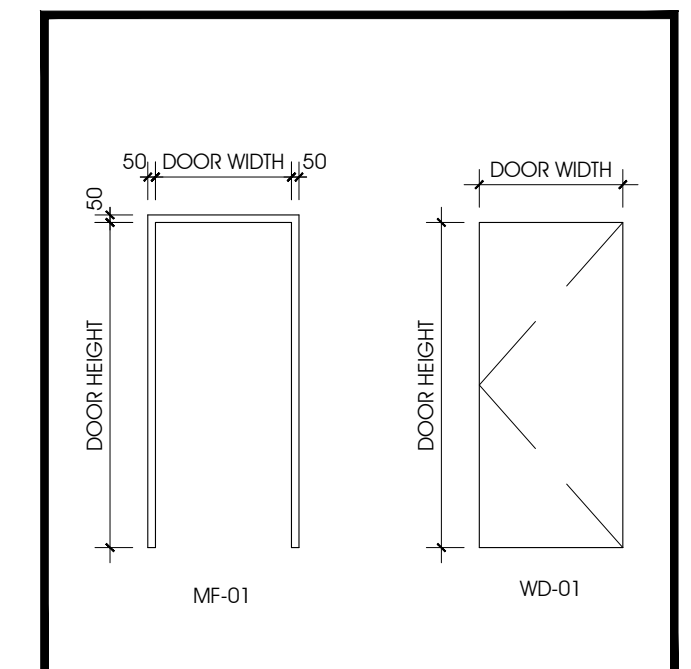
1 NEW CONSTRUCTION PARTIAL BUILDING SECTION
A500 1:50

2 SECTION AT NEW STAIR
A500 1:20

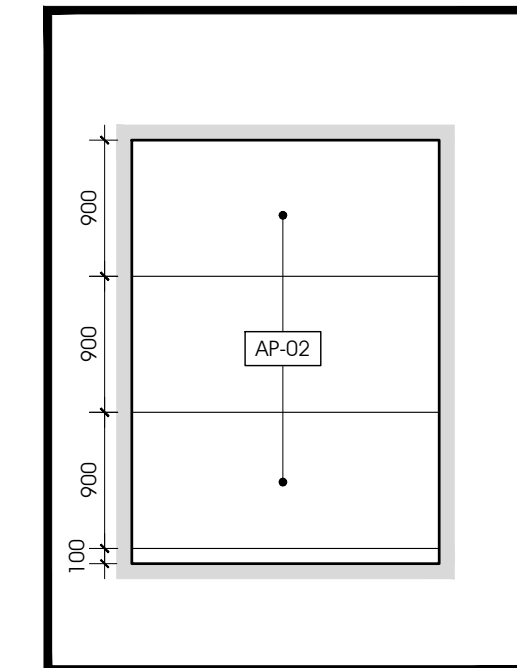


3 NORTH INTERIOR ELEVATION
A500 1:50

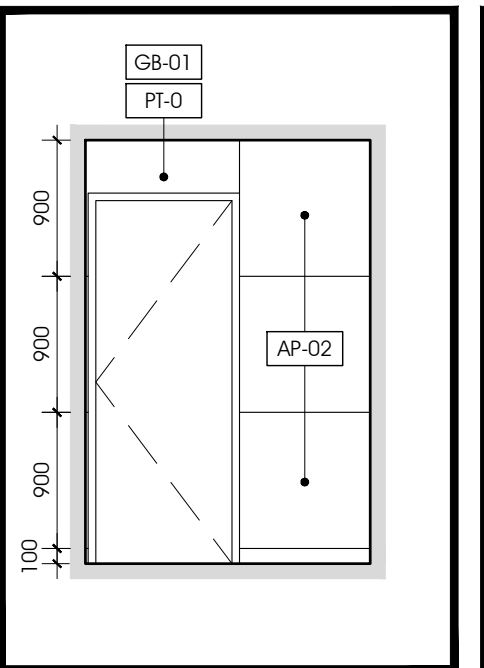
4 SOUTH INTERIOR ELEVATION
A500 1:50



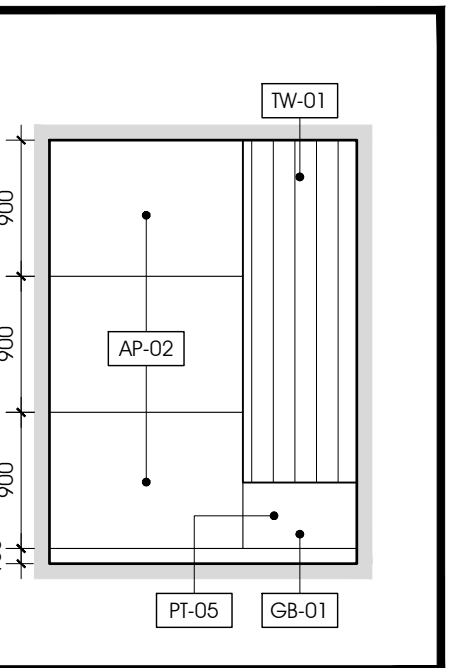
10 DOOR & FRAME ELEVATIONS
A500 1:50



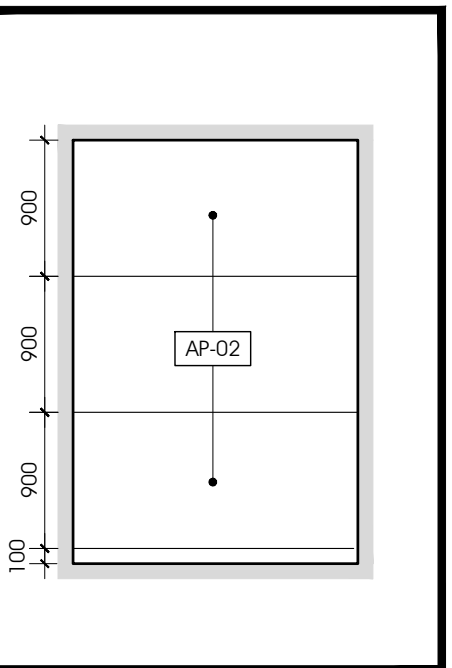
5 PRACTICE INTERIOR
A500 1:50



6 PRACTICE INTERIOR
A500 1:50



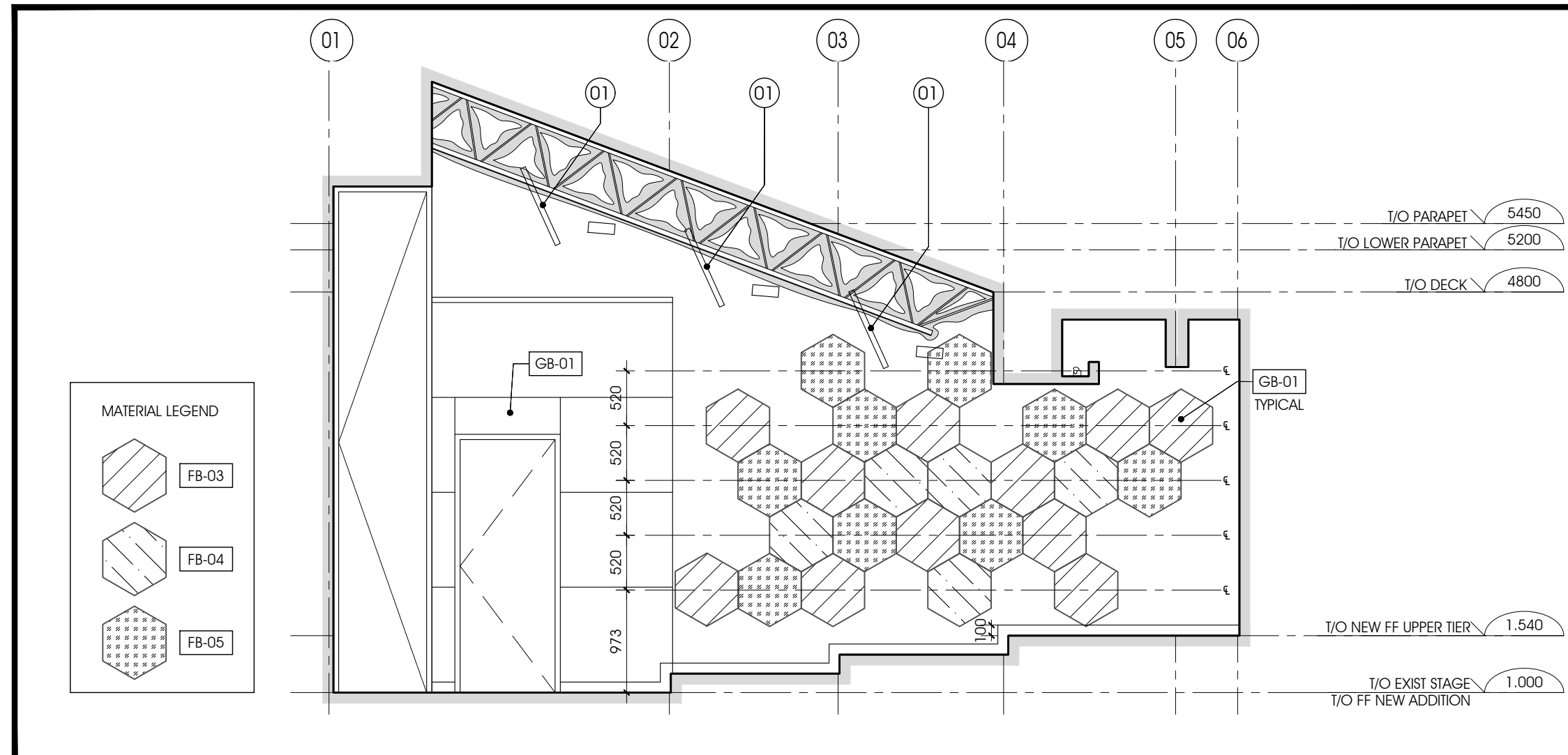
7 PRACTICE INTERIOR
A500 1:50



8 PRACTICE INTERIOR
A500 1:50

DOOR & FRAME SCHEDULE

DOOR NUMBER	NO.	WIDTH	HEIGHT	THICK	TYPE	FINISH	GLASS	FRAME FINISH	TYPE	THROAT	HARDWARE GROUP	REMARKS
113.01	SINGLE	950	2150	45	WD-01	CL-01	NA	PT-07	MF-01	220	01	STC RATING 50
113.02	SINGLE	950	2150	45	WD-01	CL-01	NA	PT-07	MF-01	220	01	STC RATING 50



9 EAST INTERIOR ELEVATION
A500 1:50

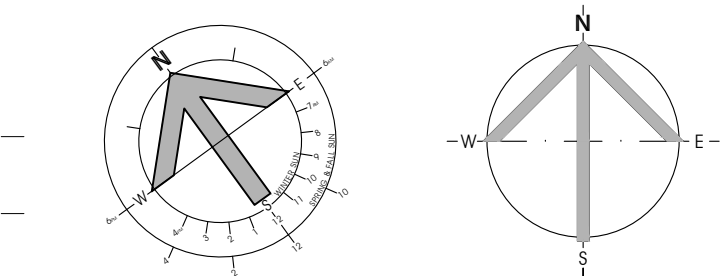
ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

RECORD OF REVISIONS

NO.	REVISION	DATE (MM/DD/YY)
1		
2		
3		
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5		



CIVITAS ARCHITECTURE INC. 14 CHAMBERLAN AVENUE, SUITE 101 OTTAWA, ON CANADA K1S 1V9 1: 613.742.7492 WWW.CIVITAS-INC.CA

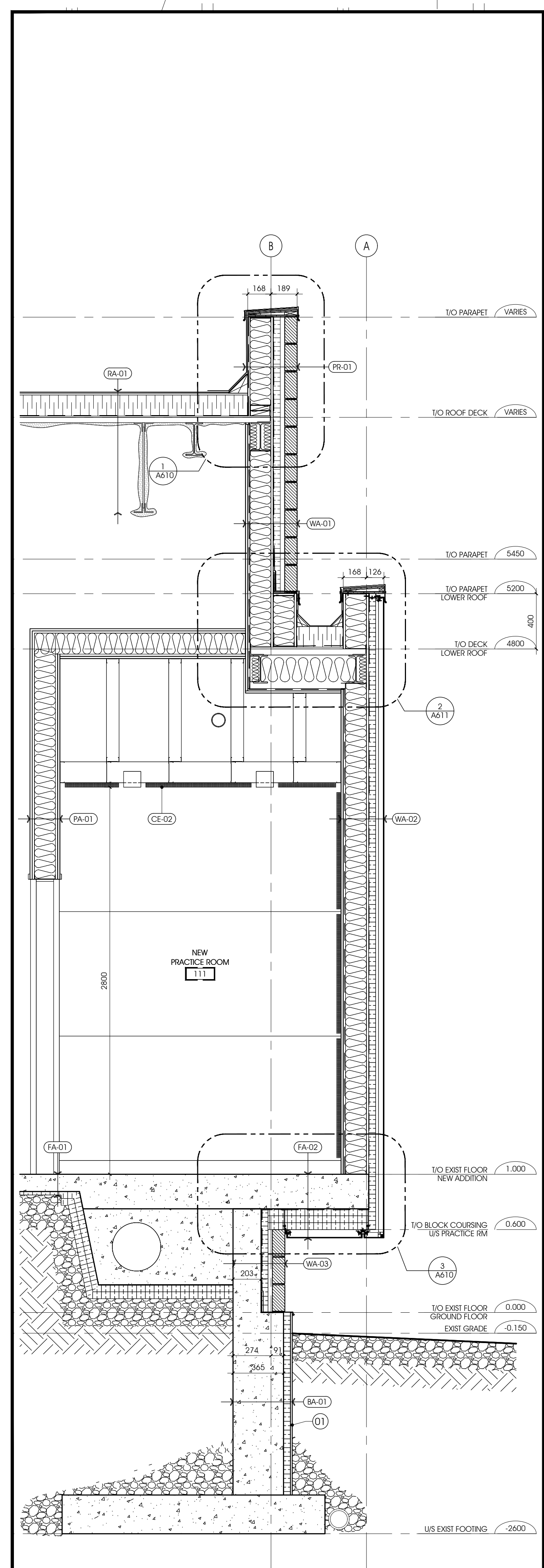


PROJECT TITLE:
ÉCOLE LE PRÉLUDE MUSIC ROOM
6025 PROMENADE LONGLEAF ORLÉANS, ON

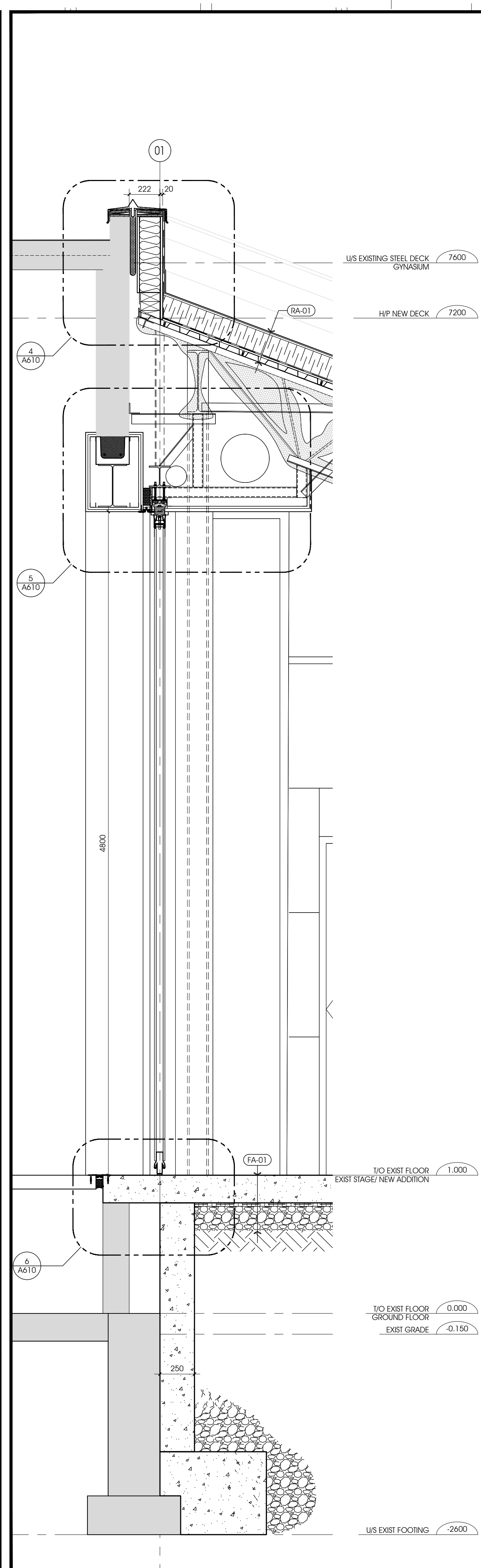
DRAWING TITLE:
NEW CONSTRUCTION BUILDING SECTIONS & INTERIOR ELEVATION

DRAWN BY: SX	DRAWING NUMBER: A500
DATE: 2018-05-30	
REVIEWED BY: DR	
APPROVED BY: DR	
PRINT DATE: 2018-05-24	REVISION NUMBER:
FILES FOR TENDER DATE: 2018-05-30	
CLIENT PROJECT #:	PROJECT #:

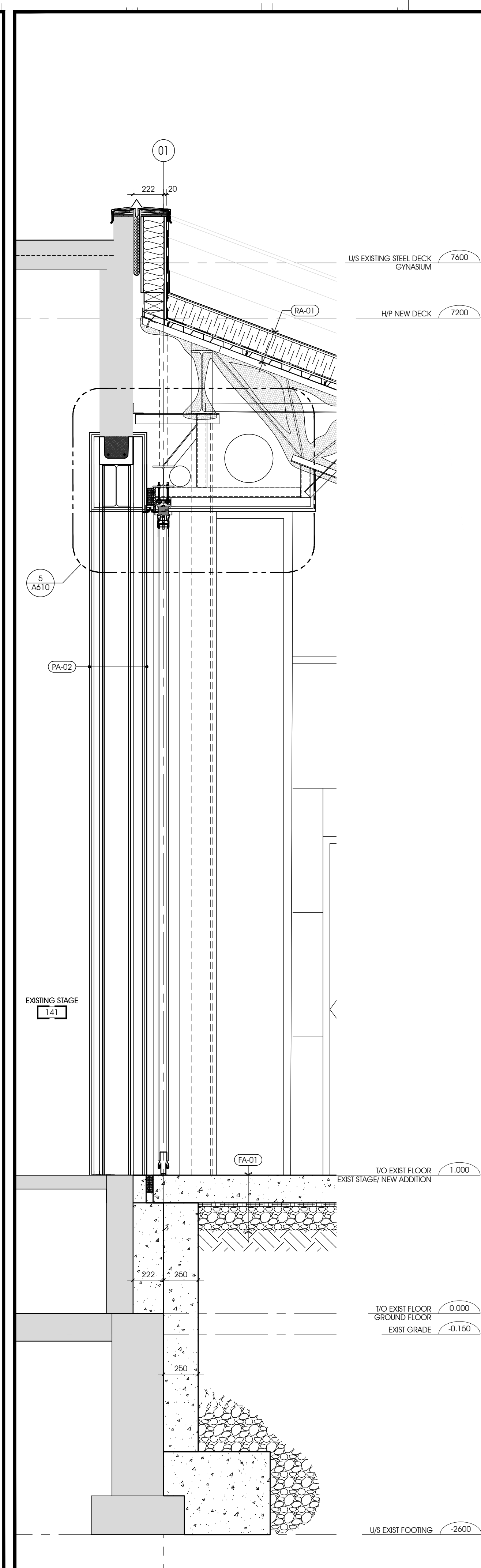
1553



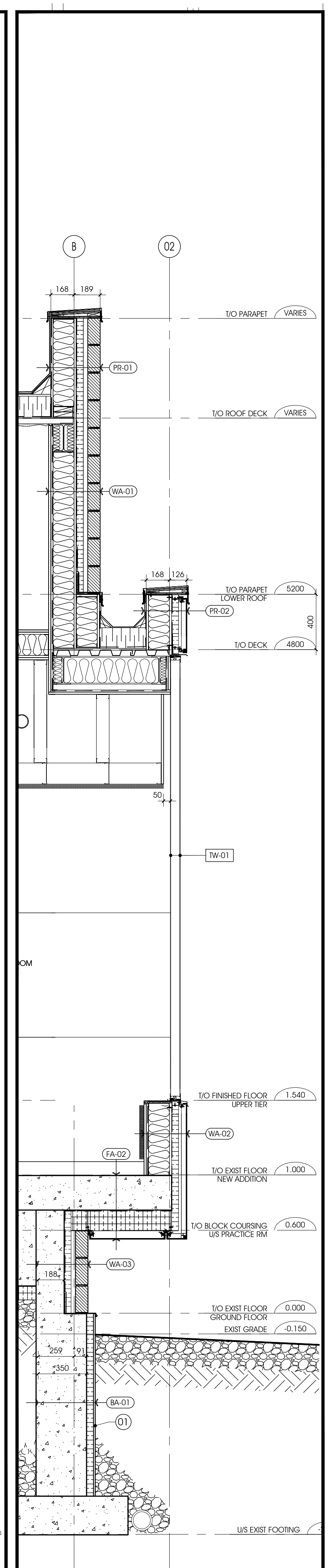
1 WALL SECTION AT PRACTICE ROOM
A510 1:20



2 WALL SECTION AT MOVEABLE PARTITION
A510 1:20



3 WALL SECTION AT NEW COLUMN
A510 1:20



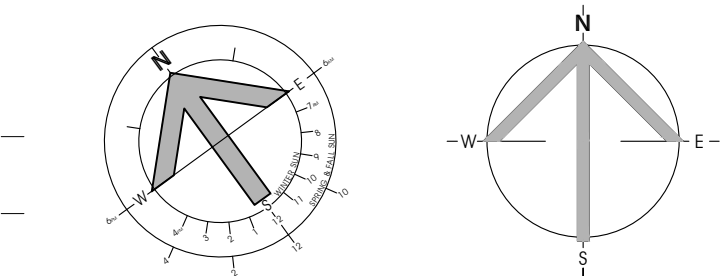
4 WALL SECTION AT TRANSLUCENT PANEL
A510 1:20

ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

REVISION	DATE	BY	CHK
1			
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4			
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CIVITAS ARCHITECTURE INC. 14 CHAMBERLAN AVENUE, SUITE 101 CANADA K1S 1V9
OTTAWA, ON CANADA K1S 1V9 1-813-742-7492 WWW.CIVITAS-INC.CA



PROJECT TITLE: ÉCOLE LE PRÉLUDE MUSIC ROOM

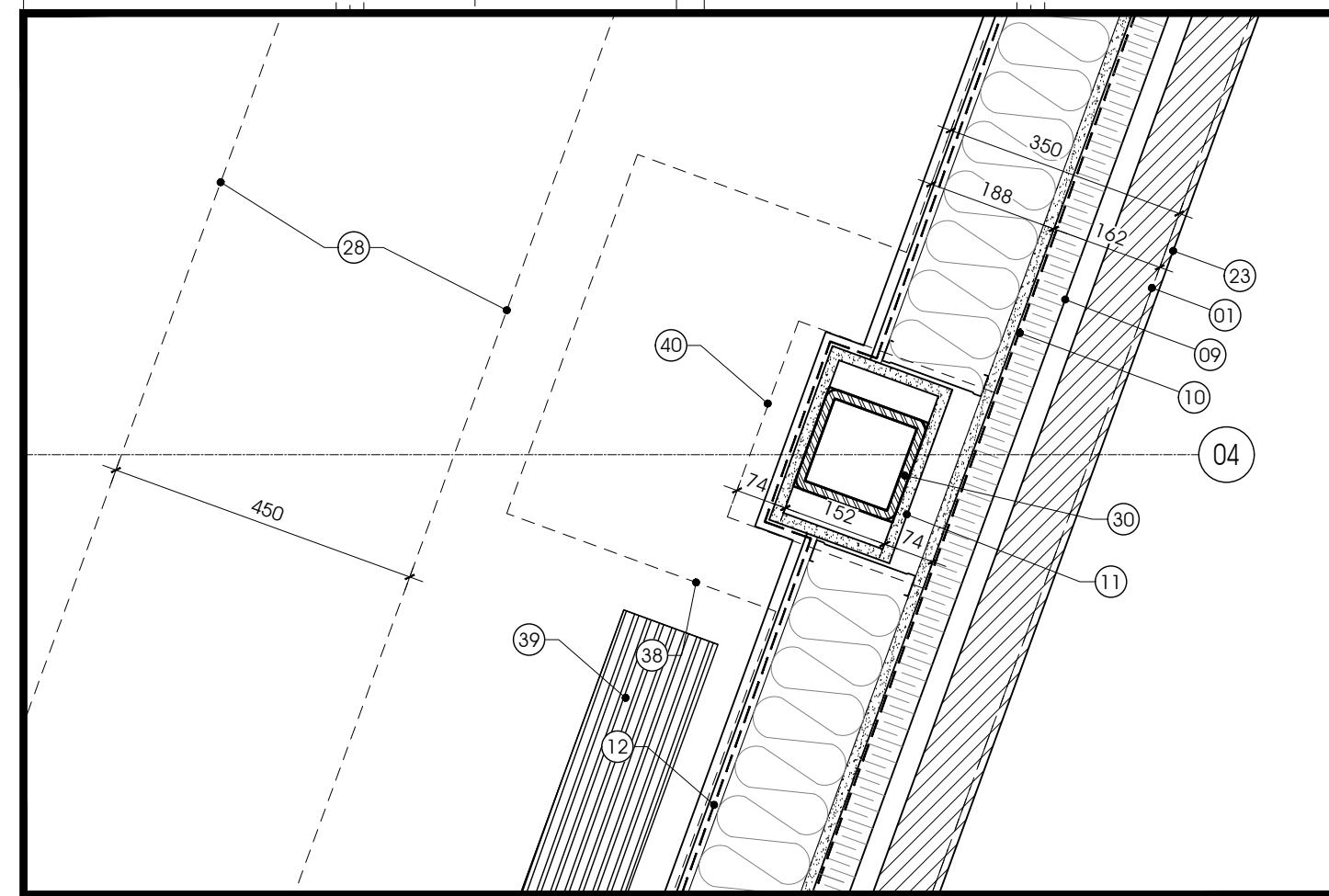
6025 PROMENADE LONGLEAF ORLÉANS, ON

DRAWING TITLE: NEW CONSTRUCTION TYPICAL WALL SECTIONS

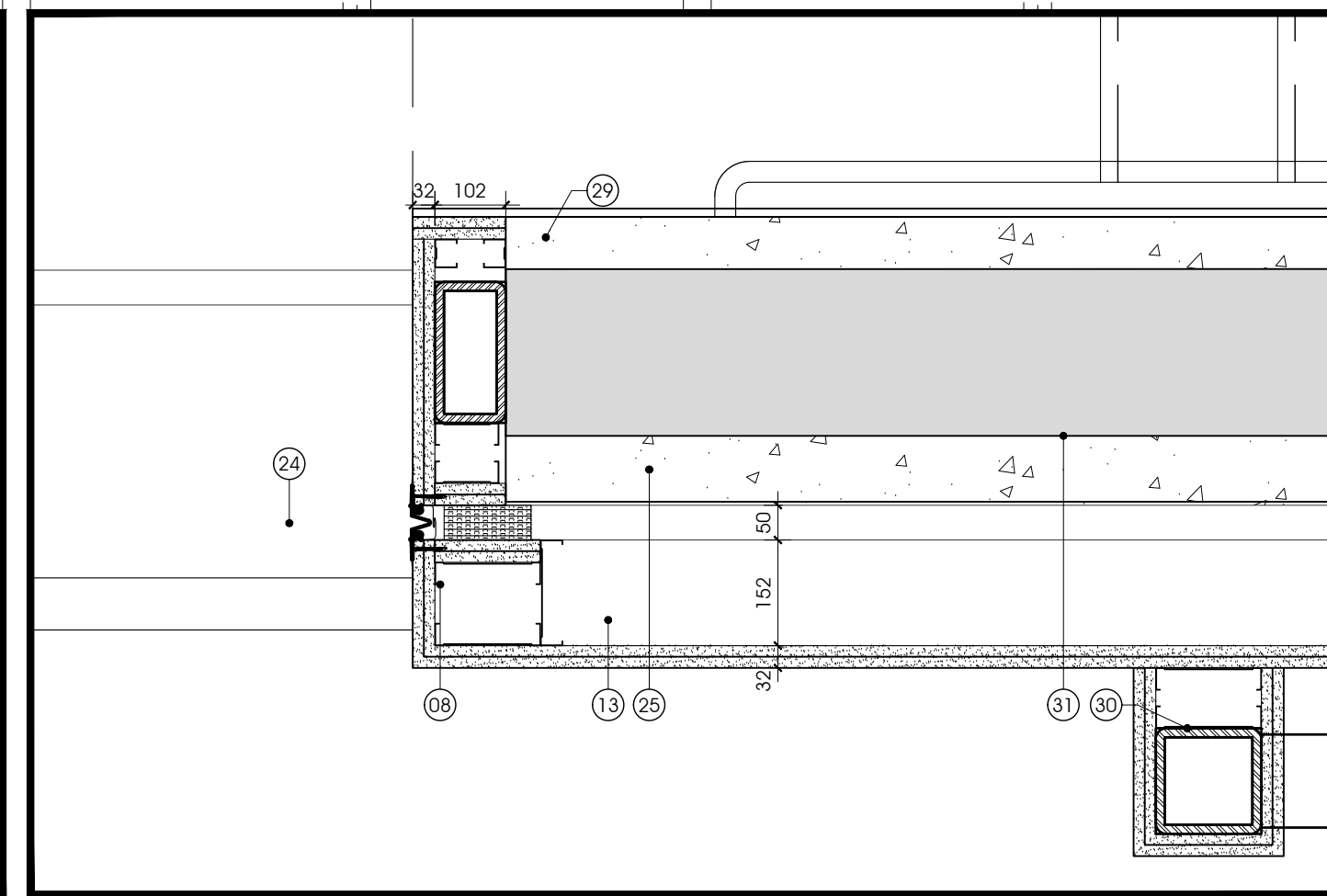
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DATE: 2018-05-30	DR: DR
REVIEWED BY: DR	DR: DR
APPROVED BY: DR	DR: DR
PRINT DATE: 2018-05-24	REVISION NUMBER: 1
ISSUED FOR: TENDER	REVISION DATE: 2018-05-30
DATE: 2018-05-30	TENDER DATE: 2018-05-30
CLIENT PROJECT #:	PROJECT #:

1553

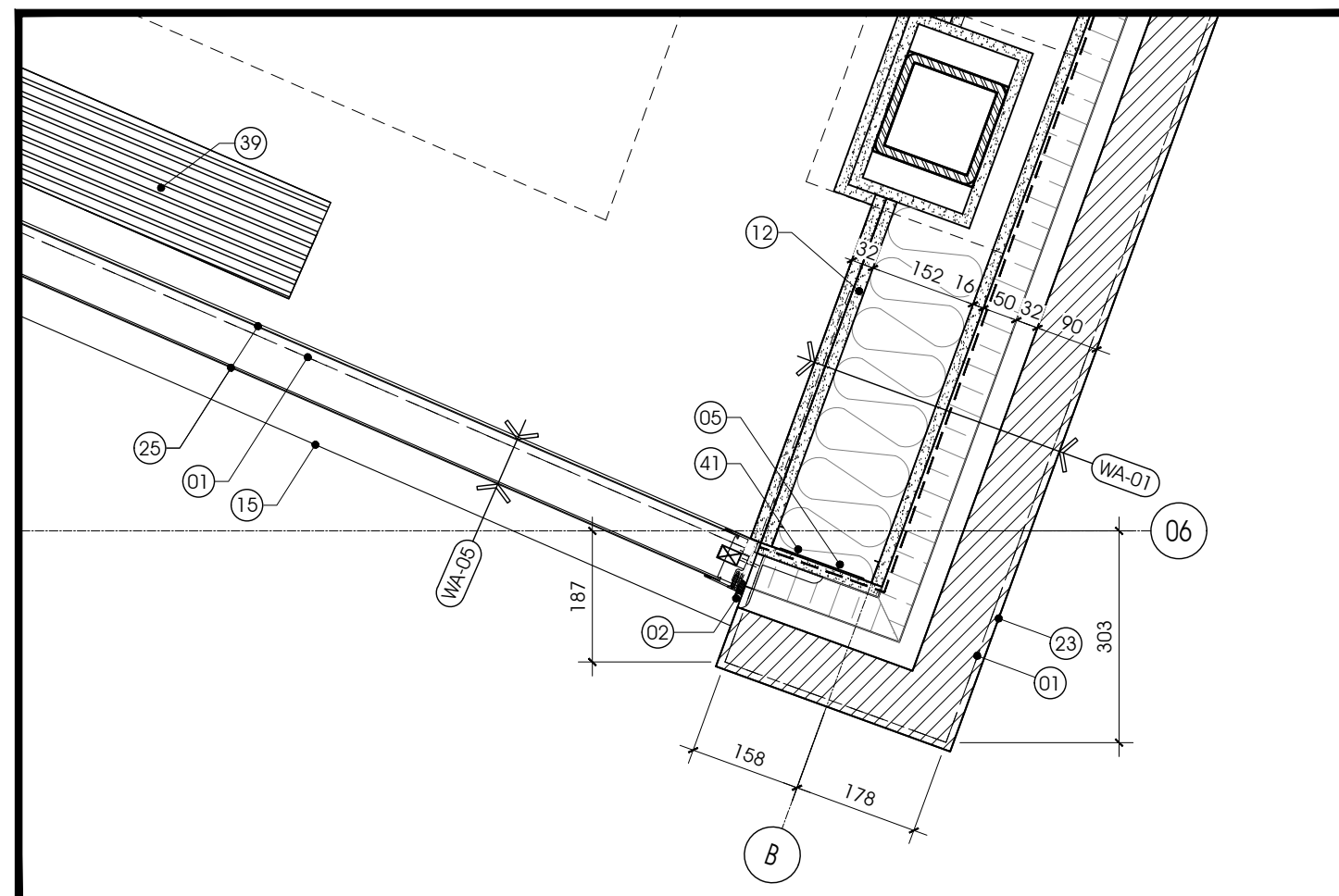
- 01 LINE OF FOUNTAIN WALL, BELOW.
- 02 CONTINUOUS CAULKING AND BACKING FOAM ROD AROUND FOUR SIDES OF FRAME, INSIDE AND OUT, TYPICAL.
- 03 PREFINISHED METAL FLASHING C/W DRIP EDGE, N.
- 04 FOAM INSULATION, TYPICAL.
- 05 RETURN AIR AND VAPOUR BARRIER, AND LAP AIR BARRIER OVER VAPOUR BARRIER AT THE END OF STUDS, TYPICAL.
- 06 FINISH GYPSUM BOARD WITH EDGE MOULD TIGHT TO FRAME AND FILED CAULK PERIMETER, TYPICAL.
- 07 FOAM INSULATE FRAME AND SEAL INTERIOR AND EXTERIOR JOINT AROUND FULL PERIMETER, TYPICAL.
- 08 PROVIDE 41mm STEEL STUD, C/W BATT INSULATION (B-01).
- 09 51mm RIGID INSULATION (R-02), TYPICAL.
- 10 AIR BARRIER MEMBRANE (AB-01).
- 11 WRAP COLUMN WITH 1 LAYER OF 16mm GYPSUM BOARD (GB-02), REFER TO ASSEMBLY ULC xxx.
- 12 VAPOUR BARRIER.
- 13 PROVIDE 2 LAYER OF 16mm GYPSUM BOARD (GB-0X).
- 14 SEAL AIR BARRIER & VAPOUR BARRIER @ COLUMN.
- 15 LINE OF PREFINISHED METAL FLASHING OVER METAL PANEL, BELOW.
- 16 STRUCTURAL GIRT/BEAM, SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 17 LINE OF WALL, BEYOND.
- 18 COMPOSITE METAL PANELS, TYPICAL.
- 19 FILL CAVITY WITH BATT INSULATION.
- 20 LAP AND SEAL AIR BARRIER AND FLEXIBLE THRU-WALL FLASHING, MIN. 152mm.
- 21 PROVIDE 50mm CAULKING AND ROD.
- 22 PROVIDE 13mm CAULKING JOINT.
- 23 LINE OF FACE OF MASONRY.
- 24 LINE OF EXPANSION JOINT COVER, BELOW.
- 25 NEW POURED CONCRETE REINFORCE WALL, REFER TO STRUCTURAL DRAWING FOR DETAIL.
- 26 THERMAL BREAK TRANSLUCENT PANEL FASTEN SYSTEM, CONTRACTOR PROVIDE SHOP DRAWING TO REVIEW.
- 27 TRANSLUCENT PANEL CONNECTOR, CONTRACTOR PROVIDE SHOP DRAWING TO REVIEW.
- 28 HVAC DUCT WITHIN SLAB, SEE MECH. DRAWING FOR SIZE AND DETAIL.
- 29 PROVIDE GYPSUM BOARD OVERLAP EXISTING CONCRETE BLOCK WALL, MIN. 50MM.
- 30 STRUCTURAL STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS.
- 31 EXISTING CONCRETE BLOCK WALL.
- 32 STRUCTURAL STEEL BRACING, SEE STRUCTURAL DRAWING FOR SIZE AND DETAIL.
- 33 MECHANICAL HVAC DUCT, SEE MECHANICAL DRAWING FOR SIZE AND DETAIL.
- 34 FOLDING PANEL PARTITION WALL, SEE MANUFACTURER'S SHOP DRAWING FOR DETAIL.
- 35 COMPOSITE METAL PANEL FASTENING SYSTEM, SEE MANUFACTURER'S SHOP DRAWING FOR DETAIL.
- 36 51MM RIGID INSULATION TO EXTEND TO EXISTING CONCRETE BLOCK WALL.
- 37 END OF NEW POURED CONCRETE REINFORCE WALL.
- 38 EXTENT OF CONCRETE PIER, BELOW.
- 39 HVAC VENT.
- 40 STRUCTURAL STEEL BASE PLATE.
- 41 METAL CLIP SECUREMENT BY TRANSLUCENT WALL ASSEMBLY, MANUFACTURER COORDINATE WITH STRUCTURAL AND EXTERIOR METAL STUD SUB TRADE.
- 42 STEP OF FOUNDATION WALL.



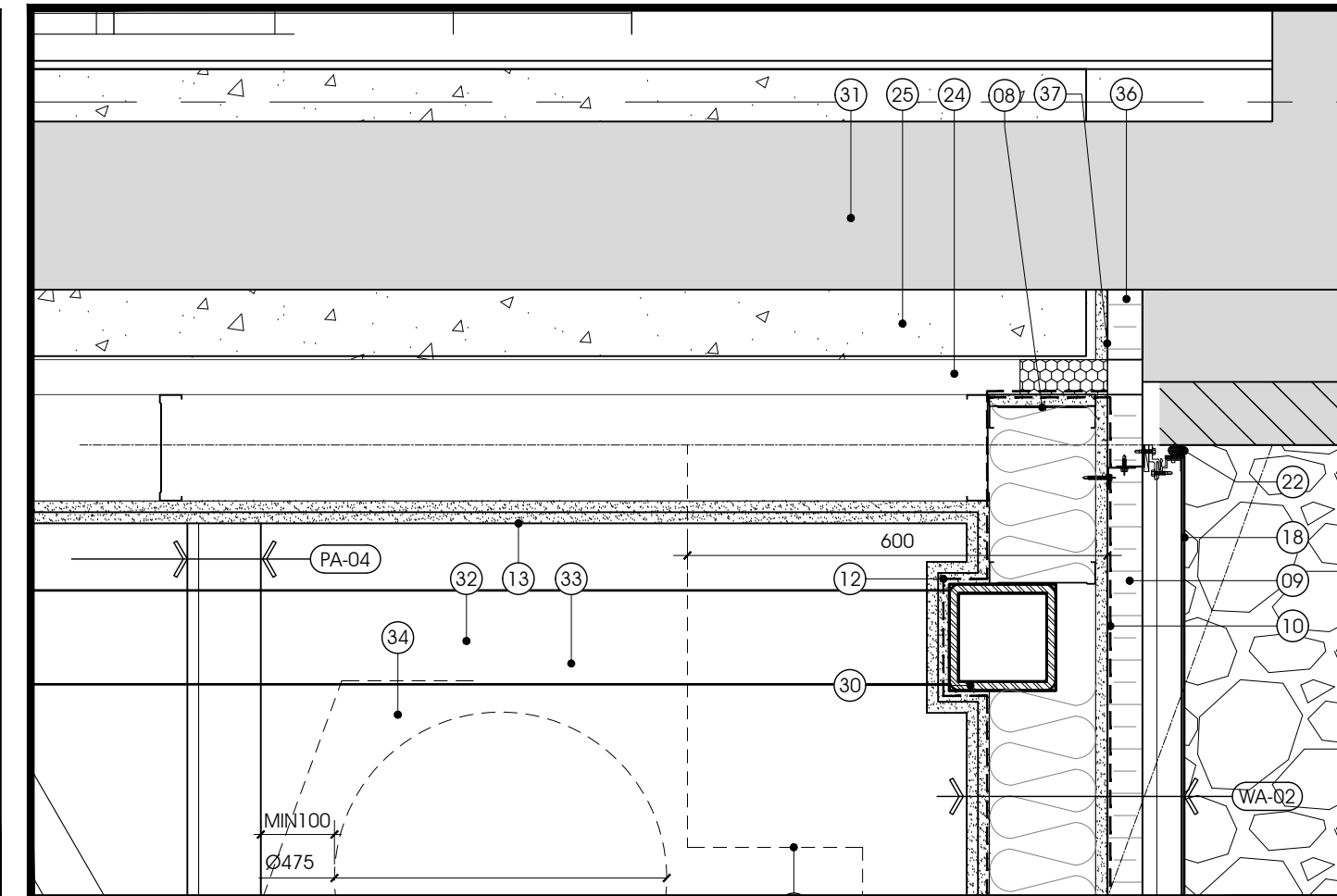
5 DETAIL @ COLUMN
A600 1:10



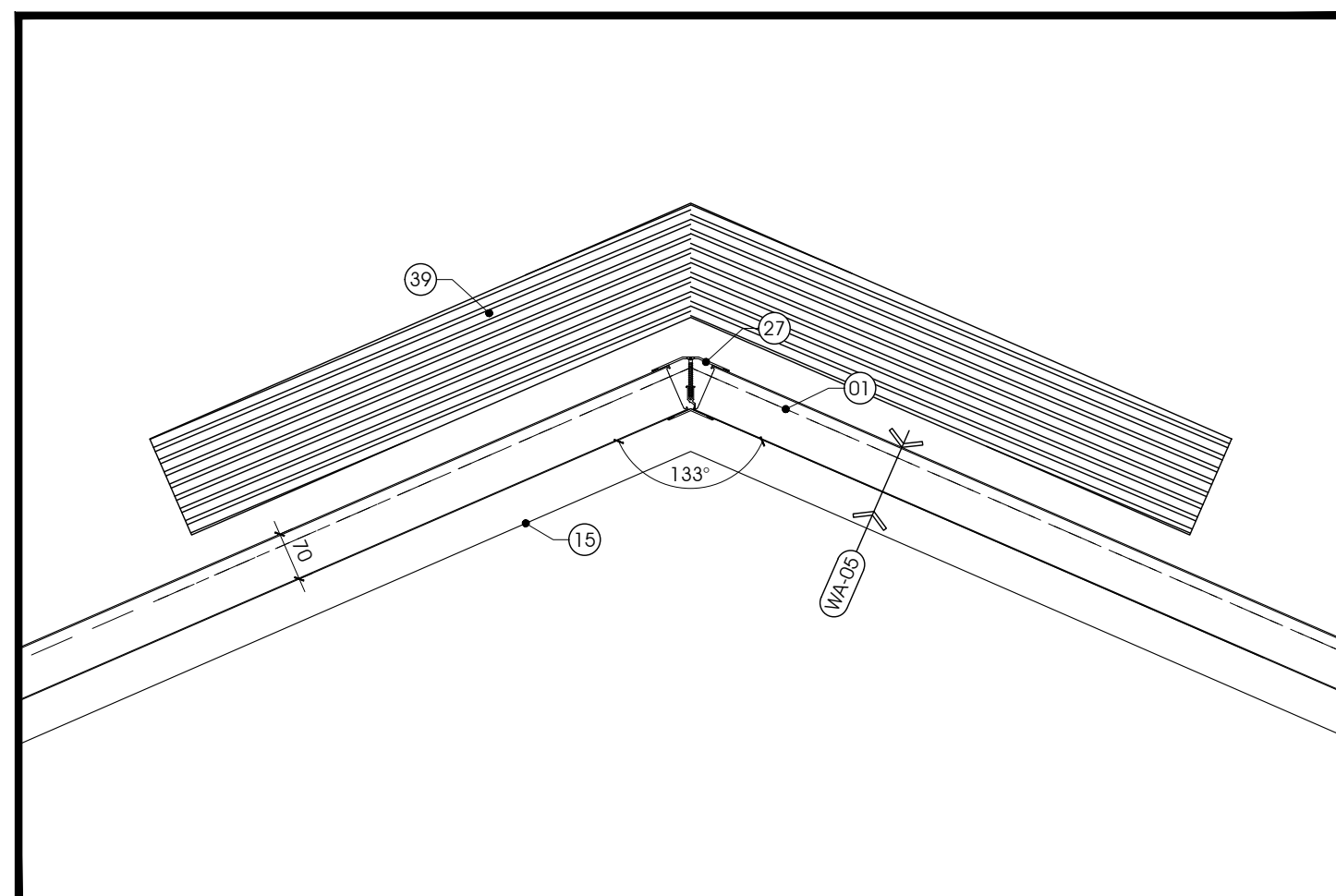
1 CONNECTION DETAIL @ EXISTING & NEW STAGE
A600 1:10



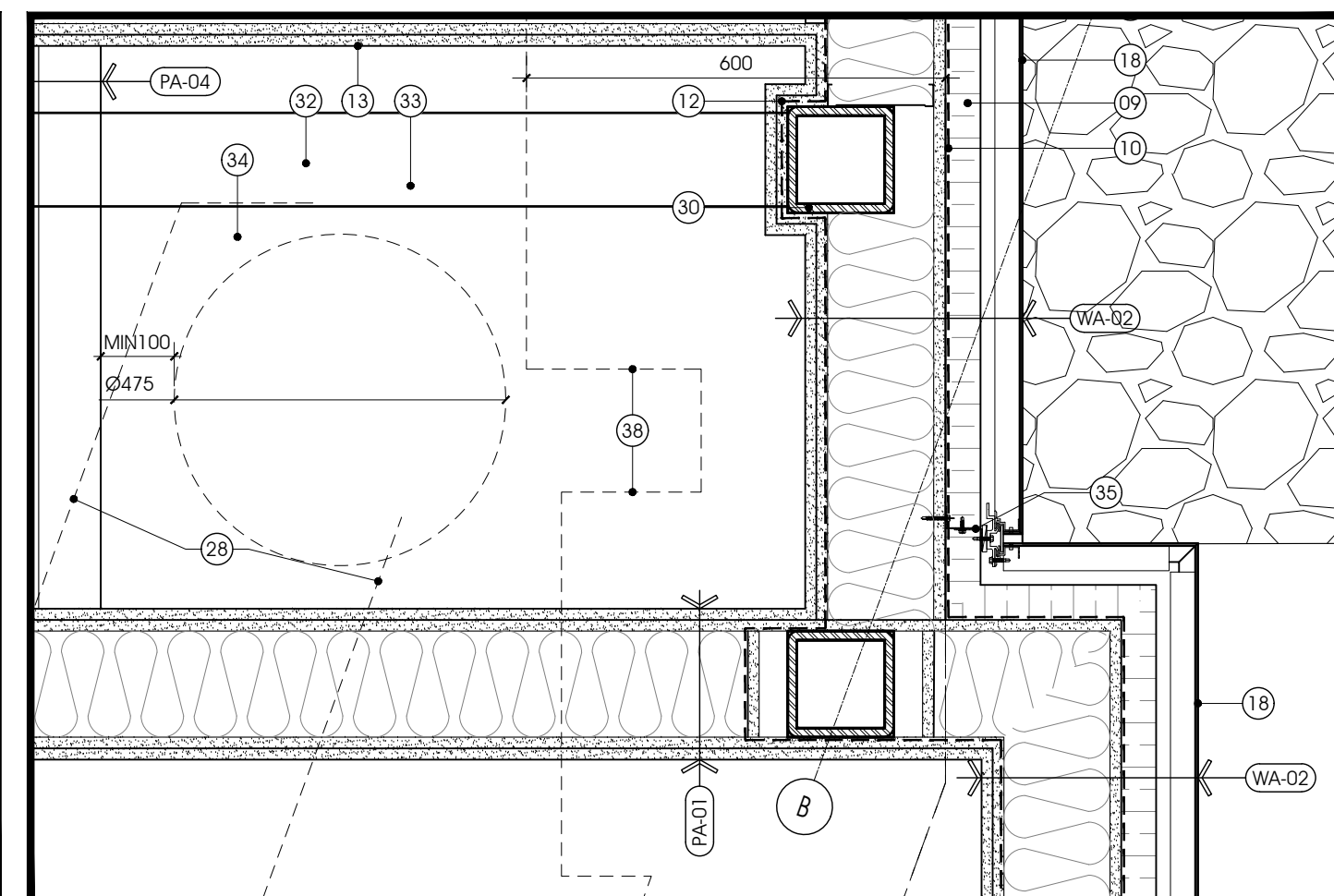
6 CONNER DETAIL @ TRANSLUCENT PANEL
A600 1:10



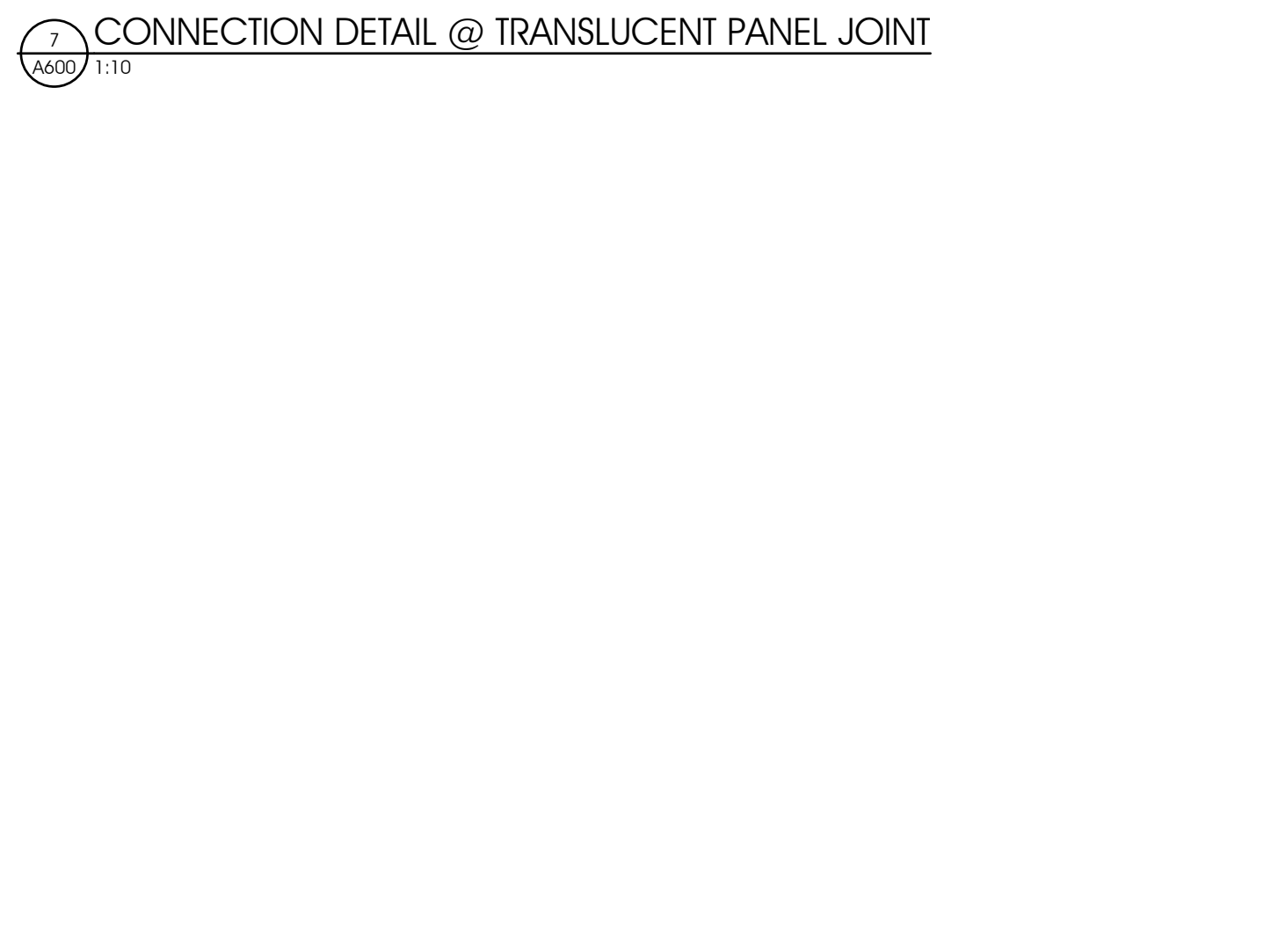
2 TYPICAL DETAIL @ EXISTING BRICK & METAL PANEL
A600 1:10



7 CONNECTION DETAIL @ TRANSLUCENT PANEL JOINT
A600 1:10



3 TYPICAL DETAIL @ EXISTING BRICK & METAL PANEL
A600 1:10



4 CONNECTION DETAIL @ BRICK & METAL SIDING
A600 1:10

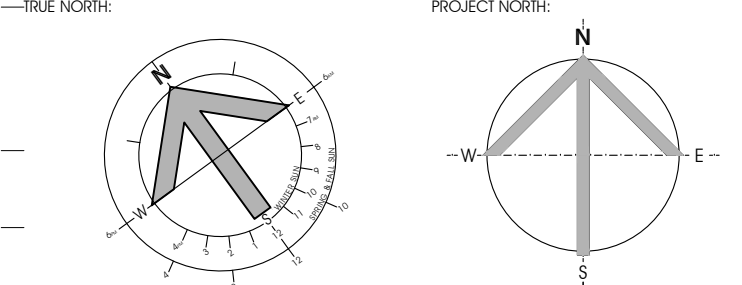
ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

REVISION	DATE	BY	APP'D
5			
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1			

ISSUED FOR REVIEW: 04/20/18
DATE: (MM/DD/YY)



CIVITAS ARCHITECTURE INC. 14 CHAMBERLAN AVENUE, SUITE 101 OTTAWA, ON CANADA K1S 1V9 1: 613.742.7492 WWW.CIVITAS-INC.CA



PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
6025 PROMENADE LONGLEAF
ORLÉANS, ON
DRAWING TITLE:
**NEW CONSTRUCTION
PLAN DETAILS**

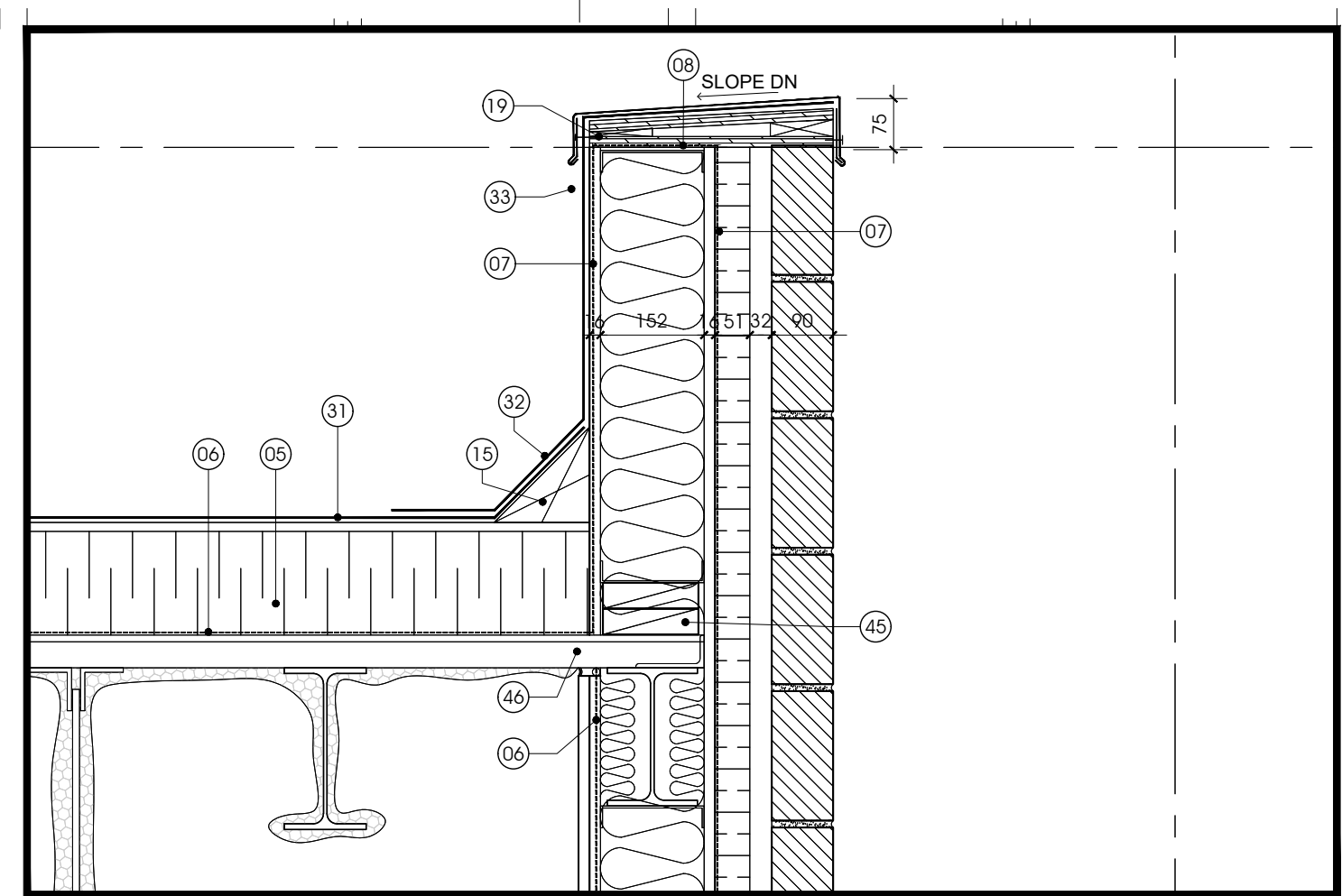
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DATE: 2018-05-30	
REVIEWED BY: DR	
APPROVED BY: DR	
PRINT DATE: 2018-05-24	REVISION NUMBER:
ISSUED FOR: TENDER	
DATE: 2018-05-30	
CLIENT PROJECT #:	PROJECT #:
	1553

DRAWING NOTES, A610

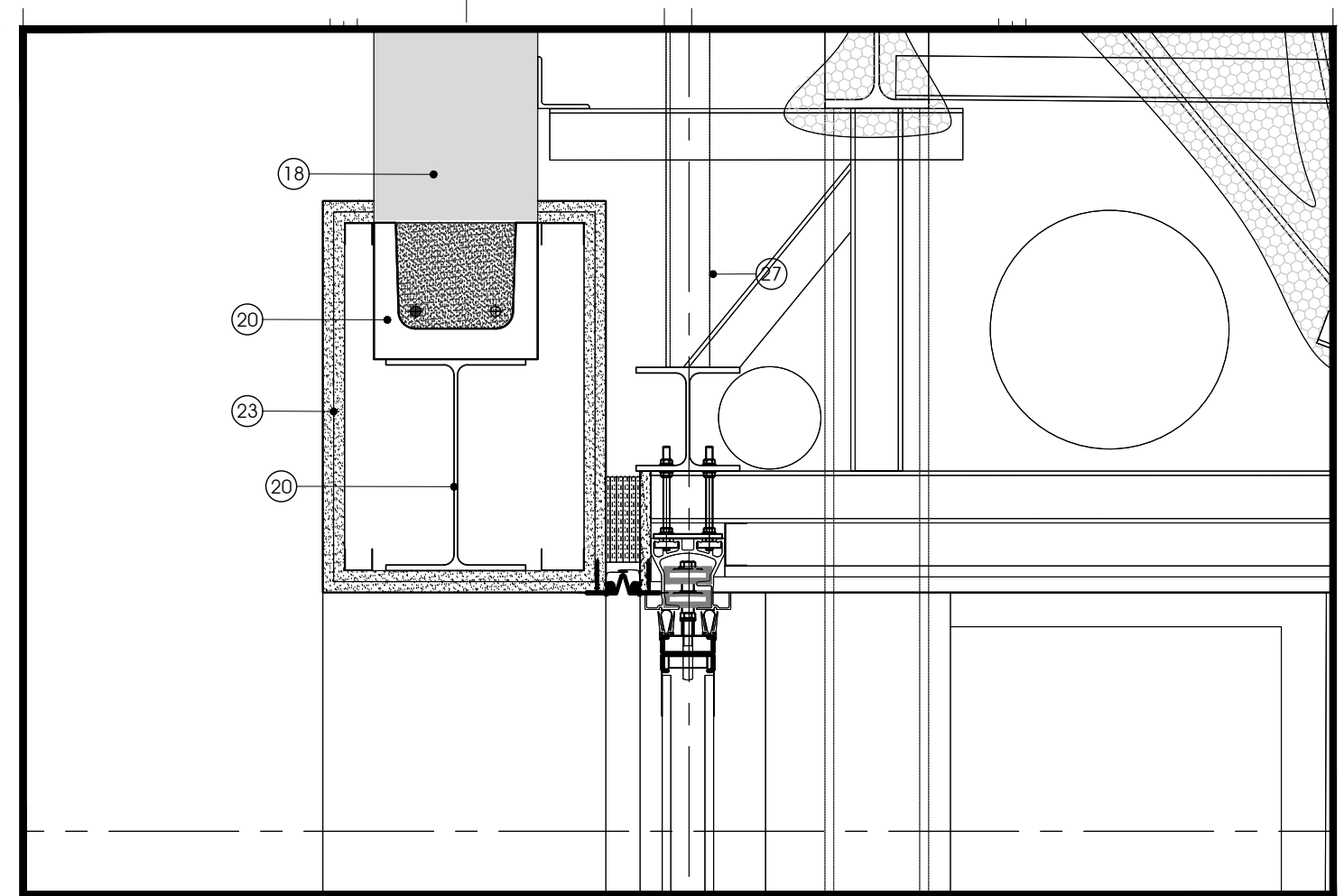
CLIENT LOGO



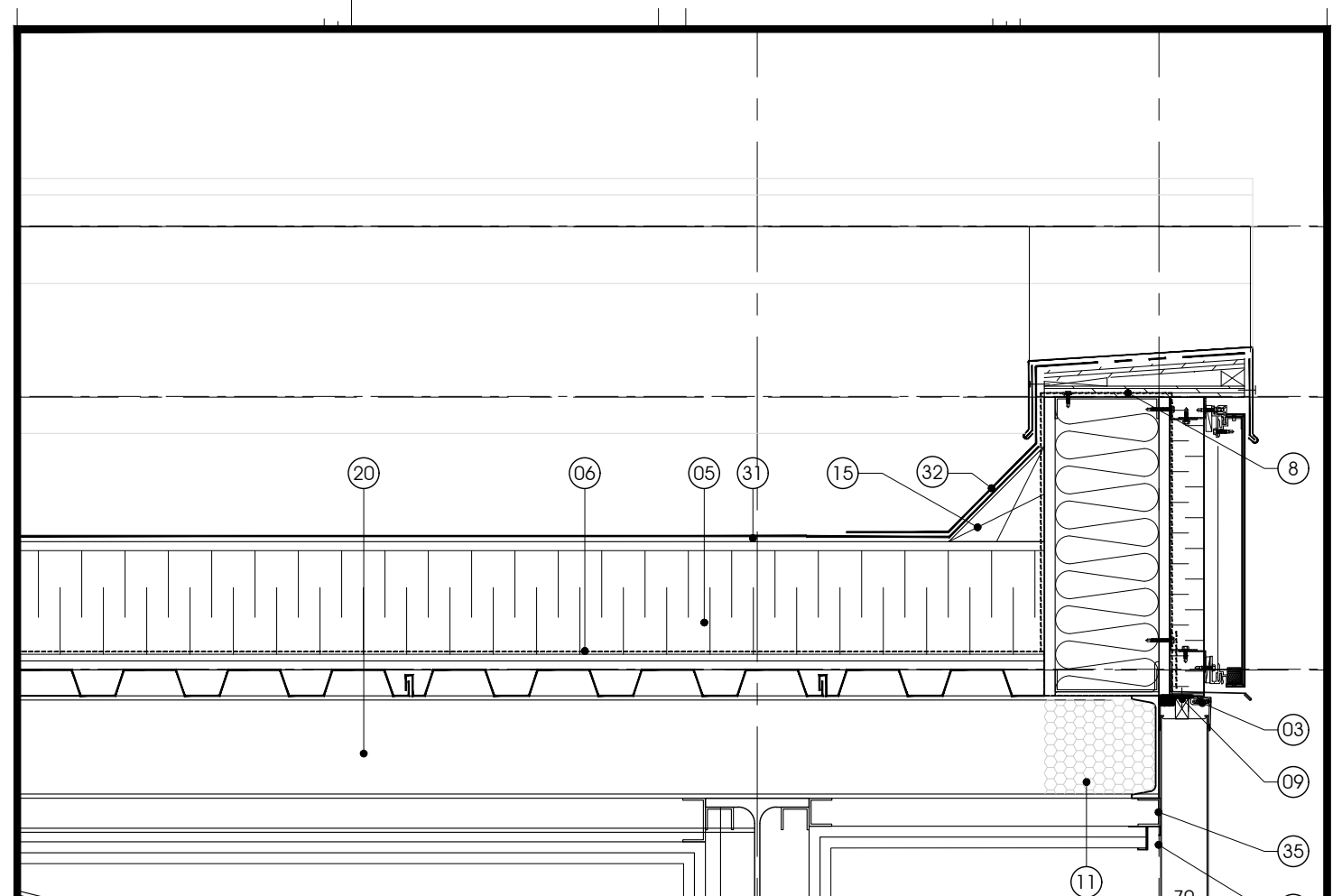
- 01 CONTINUOUS POLYBOND BREAK, TYPICAL.
- 02 GYPSUM BOARD TO BE 13mm SHORT FROM I.O. CONCRETE SLAB @ EXTERIOR WALLS ONLY. PROVIDE CONTINUOUS SEALANT, TYPICAL.
- 03 CONTINUOUS CAULKING AND BACKING FOAM ROD AROUND FOUR SIDES OF FRAME, INSIDE AND OUT, TYPICAL.
- 04 PREFINISHED METAL FLASHING CW DRIP EDGE.
- 05 RIGID INSULATION.
- 06 VAPOR BARRIER.
- 07 AIR BARRIER.
- 08 RETURN AIR CONTINUOUS ON TOP OF FRAME, TYPICAL.
- 09 FOAM INSULATE FRAME AND SEAL INTERIOR AND EXTERIOR JOINT AROUND FULL PERIMETER, TYPICAL.
- 10 FLUSH MOUNTED FLOOR EXPANSION JOINT COVER.
- 11 FOAM INSULATION BETWEEN BEAM AND US PARAPET STUDS.
- 12 FIRE SEAL BETWEEN EXPANSION JOINT, PROVIDE SHOP DRAWINGS AND INSTALL TESTED ASSEMBLY.
- 13 PROVIDE CONTINUOUS AIR BARRIER AT CONSTRUCTION JOINT & FILL THE CAVITY WITH SPRAYED FOAM INSULATION.
- 14 WEEP HOLES @ 600 O.C. CW PREFABRICATED INSERTS.
- 15 FIBER CANT STRIP, TYPICAL.
- 16 STEEL ANGLE FOR TRANSPARENT PANEL INSTALLATION, PROVIDED BY MANUFACTURER, SHOP DRAWING IS REQUIRED TO REVIEW.
- 17 FIRE RETARDANT SPRAY TO ALL EXPOSED STEEL UP TO & INCLUDING FLUTES OF DECK, PERMETER BEAM ETC., TYPICAL.
- 18 EXISTING CONCRETE BLOCK WALL.
- 19 PARAPET CAP ASSEMBLY: PREFINISHED METAL FLASHING OVER CAP PREFINISHED METAL FLASHING SHEET, PROVIDE SCREWED PLYWOOD CAP FASTENED TO PARAPET UPSTAND, FILLED WITH FOAMED IN PLACE INSULATION.
- 20 STRUCTURAL GIRTBEAM, SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 21 LINE OF WALL, BEYOND.
- 22 PROVIDE BACKING FOAM ROD & CAULKING BETWEEN GYPSUM BOARD @ US OF JOINT.
- 23 PROVIDE 2 LAYERS TYPE "X" GYPSUM BOARD ON 41MM FURRING, TYPICAL FIRE RATED BEAM ENCLOSURE SEE ASSEMBLIES UL DES N501.
- 24 FOLDING PANEL PARTITION WALL, MANUFACTURER TO PROVIDE SHOP DRAWING TO REVIEW AND APPROVE.
- 25 STEEL PLATE, SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 26 STEEL STAIR BEYOND.
- 27 STEEL STRUCTURE TO PROVIDE SUPPORT FOR FOLDING PANEL TRACK, REFER TO STRUCTURAL DRAWING FOR DETAIL SHAPE AND SIZE.
- 28 PROJECTED COLUMN WRAPPED WITH 2 LAYERS DRY WALL BEYOND.
- 29 LAP AND SEAL FLEXIBLE THRU-WALL FLASHING AND METAL FLASHING.
- 30 METAL GIRT FOR METAL PANELS AS REQUIRED.
- 31 TPO ROOFING MEMBRANE ON 13 PROTECTION BOARD EXTEND 100mm MIN. ABOVE TOP OF CANT STRIP.
- 32 OVERLAP TPO MEMBRANE 200mm MINIMUM PAST TOE OF CANT STRIP AND EXTEND TO TOP UP & OVER PARAPET, TYPICAL.
- 33 METAL FLASHING OVERLAP THE TPO TOP LAYER MEMBRANE.
- 34 13mm PROTECTION BOARD MECHANICALLY FASTENED TO INSULATION.
- 35 STEEL CHANNEL, SEE STRUCTURAL DRAWING FOR DETAIL SHAPE AND SIZE.
- 36 STAIR STRINGER SUPPORTED BY STEEL ANGLE, CONTRACTOR TO PROVIDE SHOP DRAWING TO REVIEW.
- 37 PROVIDE 2 LAYERS 16MM TYPE "X" GYPSUM BOARD ON 22MM FURRING CHANNELS, 1HR FIR.
- 38 MIN. 1070MM HIGH PAINTED METAL GUARD, CONTRACTOR TO PROVIDE SHOP DRAWING TO REVIEW.
- 39 PAINTED METAL STAIR WITH HANDRAIL, CONTRACTOR TO PROVIDE SHOP DRAWING TO REVIEW.
- 40 INSULATED MECHANICAL DUCT IN SLAB, REFER MECHANICAL & STRUCTURAL DRAWING FOR DETAIL SHAPE, SIZE AND LOCATION.
- 41 STORM WATER PIPE DIRECTED TO THE EXISTING STORMWATER STORAGE TANK, REFER TO MECHANICAL DRAWING FOR DETAIL.
- 42 LIGHT FIXTURE REFER TO ELECTRICAL DRAWING FOR DETAIL.
- 43 BULKHEAD COVE WITH STEEL FURRING CHANNEL AND DRY WALLS.
- 44 STEEL BEAM WRAPPED WITH 2 LAYERS DRY WALL, COLUMN SEE REFER TO STRUCTURAL DRAWING.
- 45 38x140mm PRESSURE-TREATED WOOD BLOCKING CONTINUOUS.
- 46 STEEL DECK, REFER TO STRUCTURAL DRAWINGS.
- 47 PROVIDE PREFINISHED METAL SCUPPER FLASHING OVER ROOF MEMBRANE.
- 48 NEW CONTINUOUS 200X150X6 STEEL MASON VENEER ANGLE SUPPORT, REFER TO STRUCTURAL DRAWING.
- 49 METAL FLASHING OVER THE VAPOR BARRIER ON TOP OF STEEL ANGLE SHADOW LINE J BEAD.



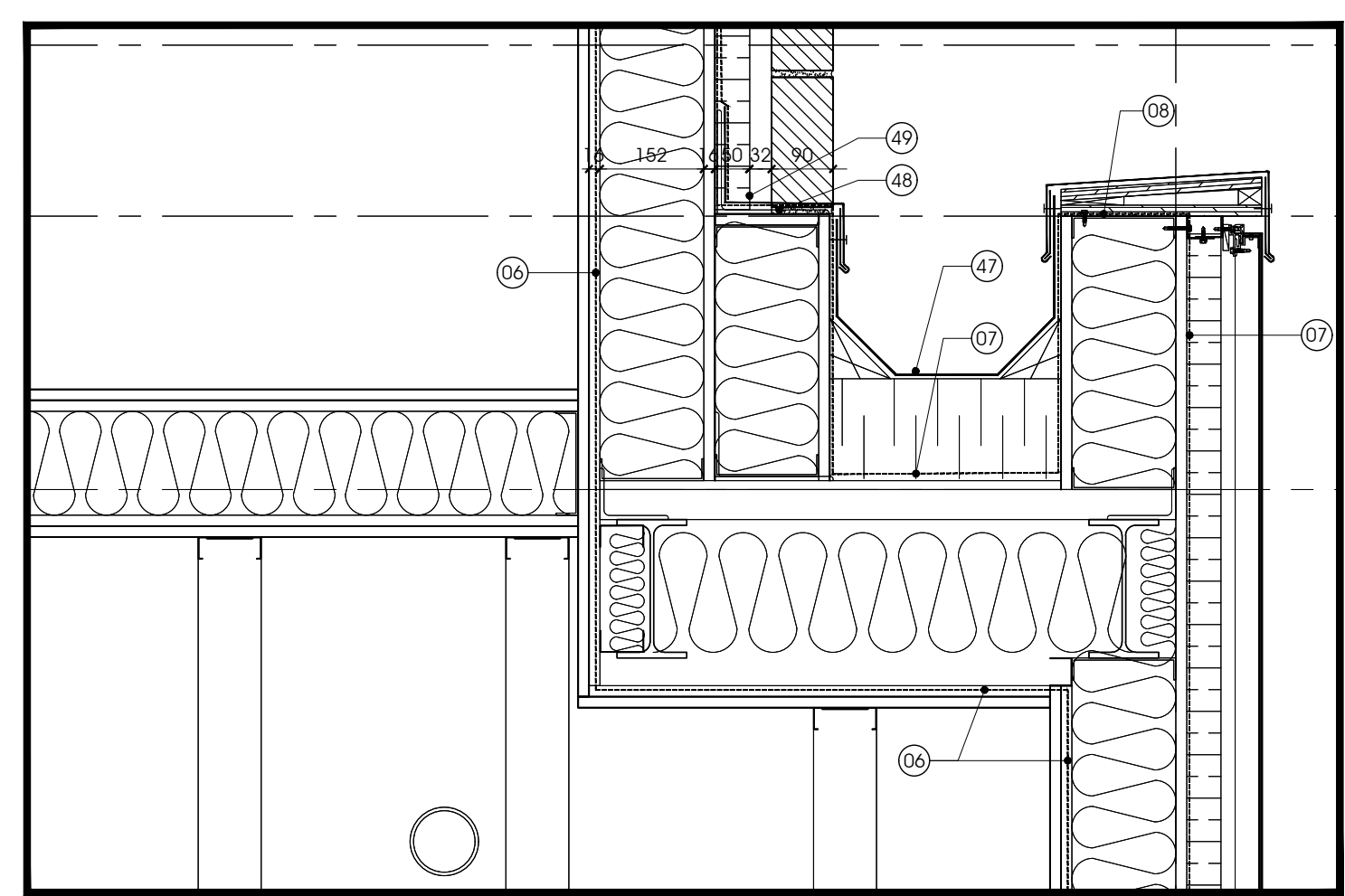
1 PARAPET DETAIL @ BRICK
A610 1:10



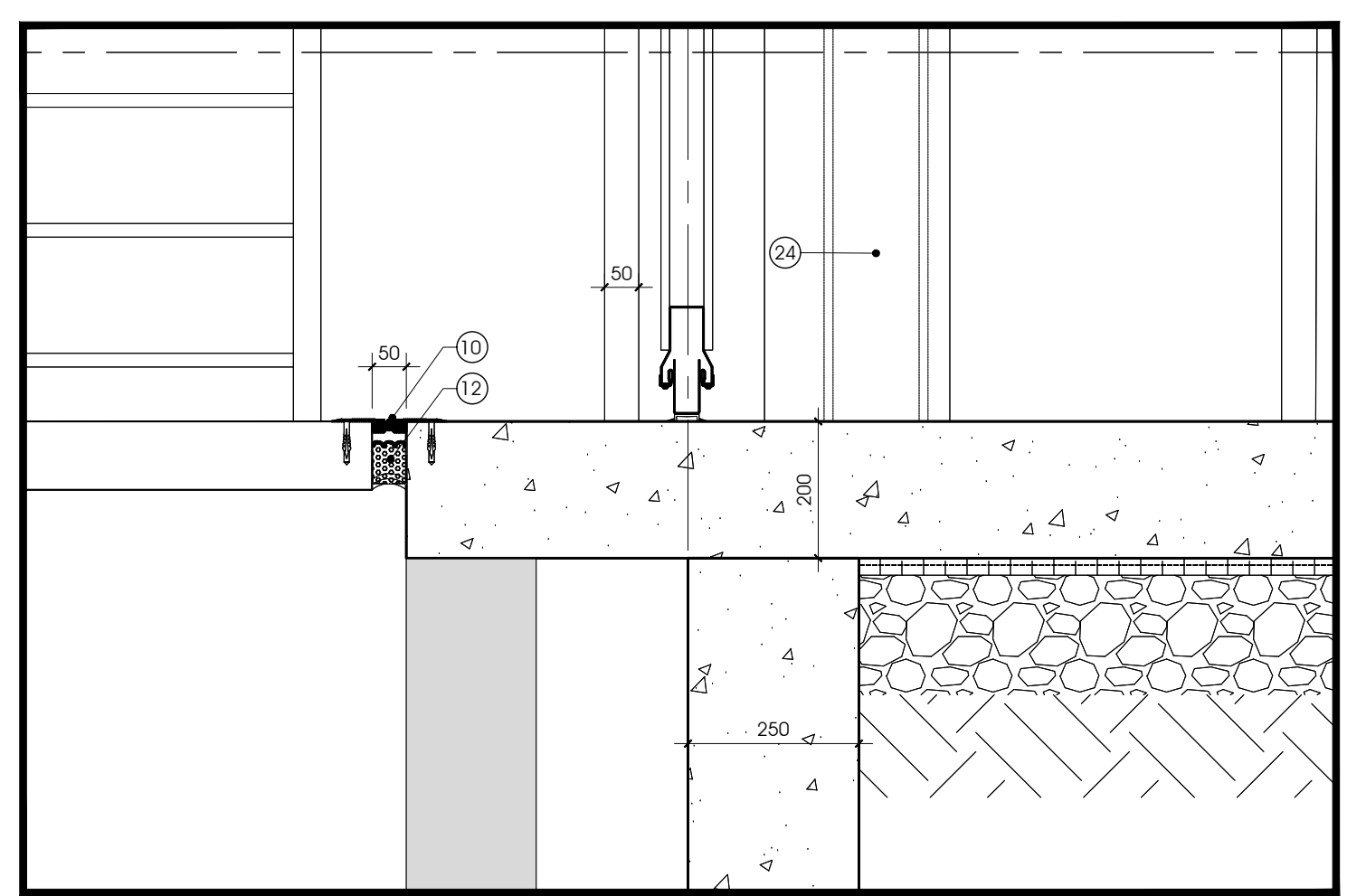
5 DETAIL @ DUCT
A610 1:10



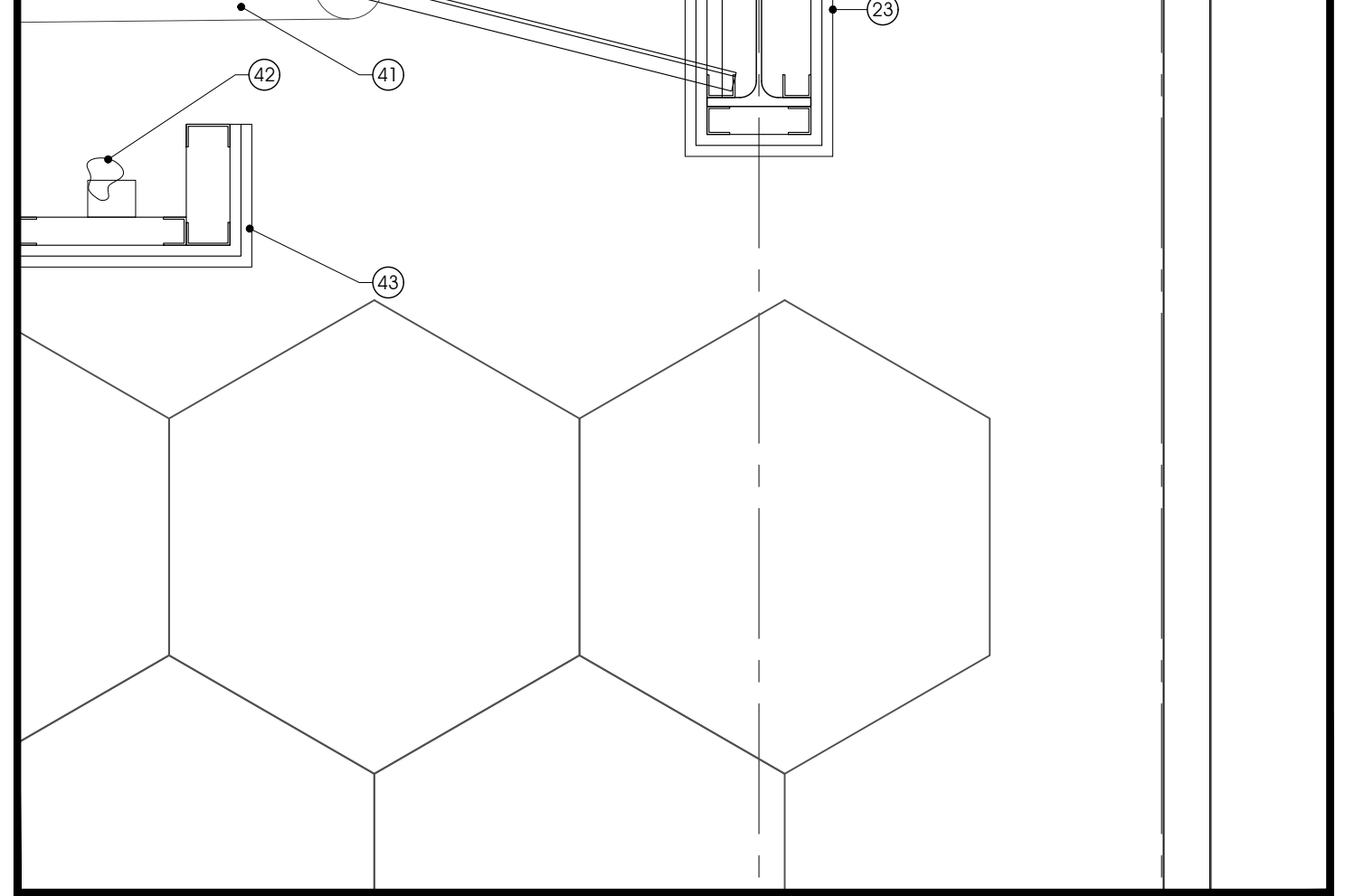
9 PARAPET DETAIL @ TRANSLUCENT PANEL
A610 1:10



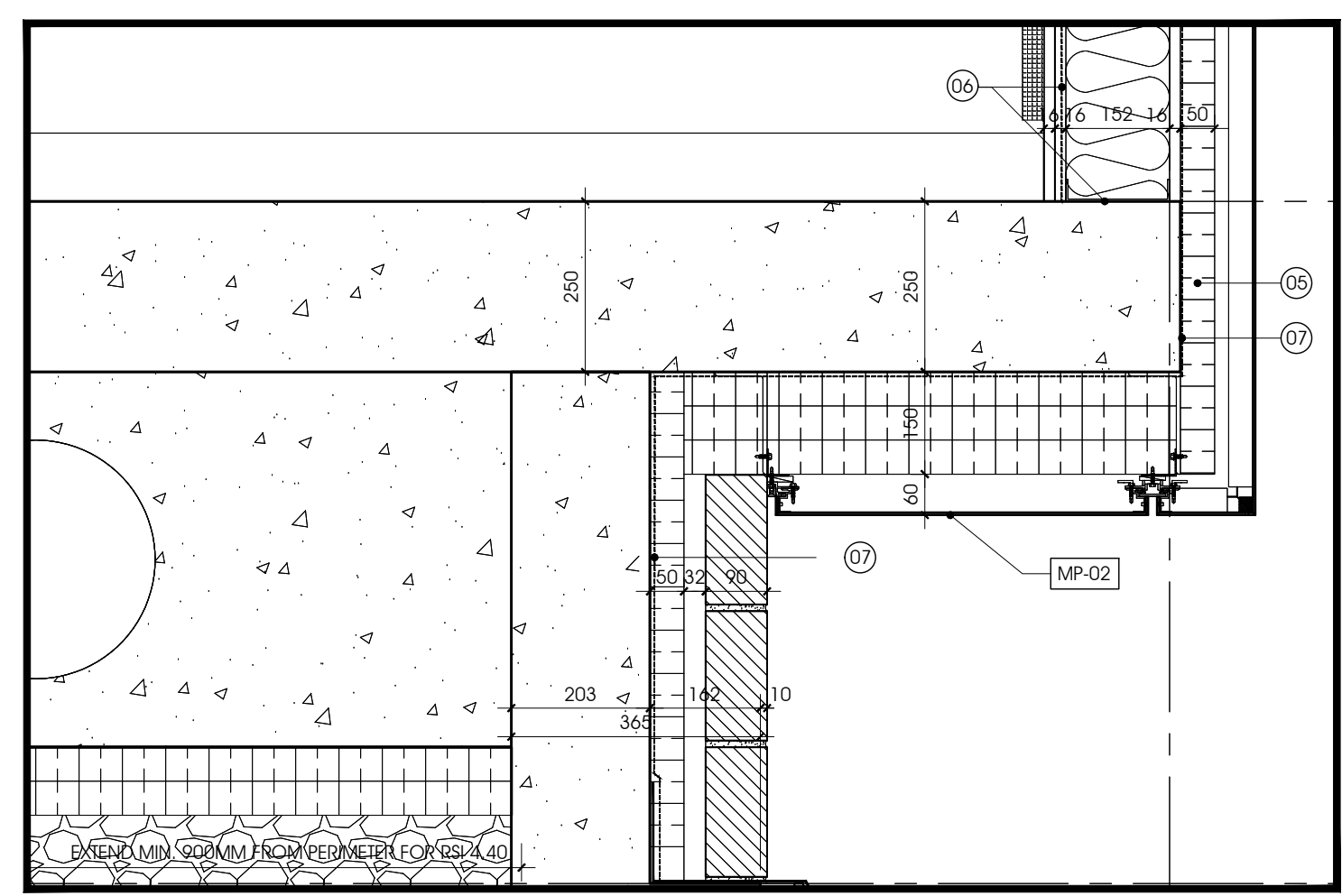
2 CONNECTION DETAIL @ BRICK
A610 1:10



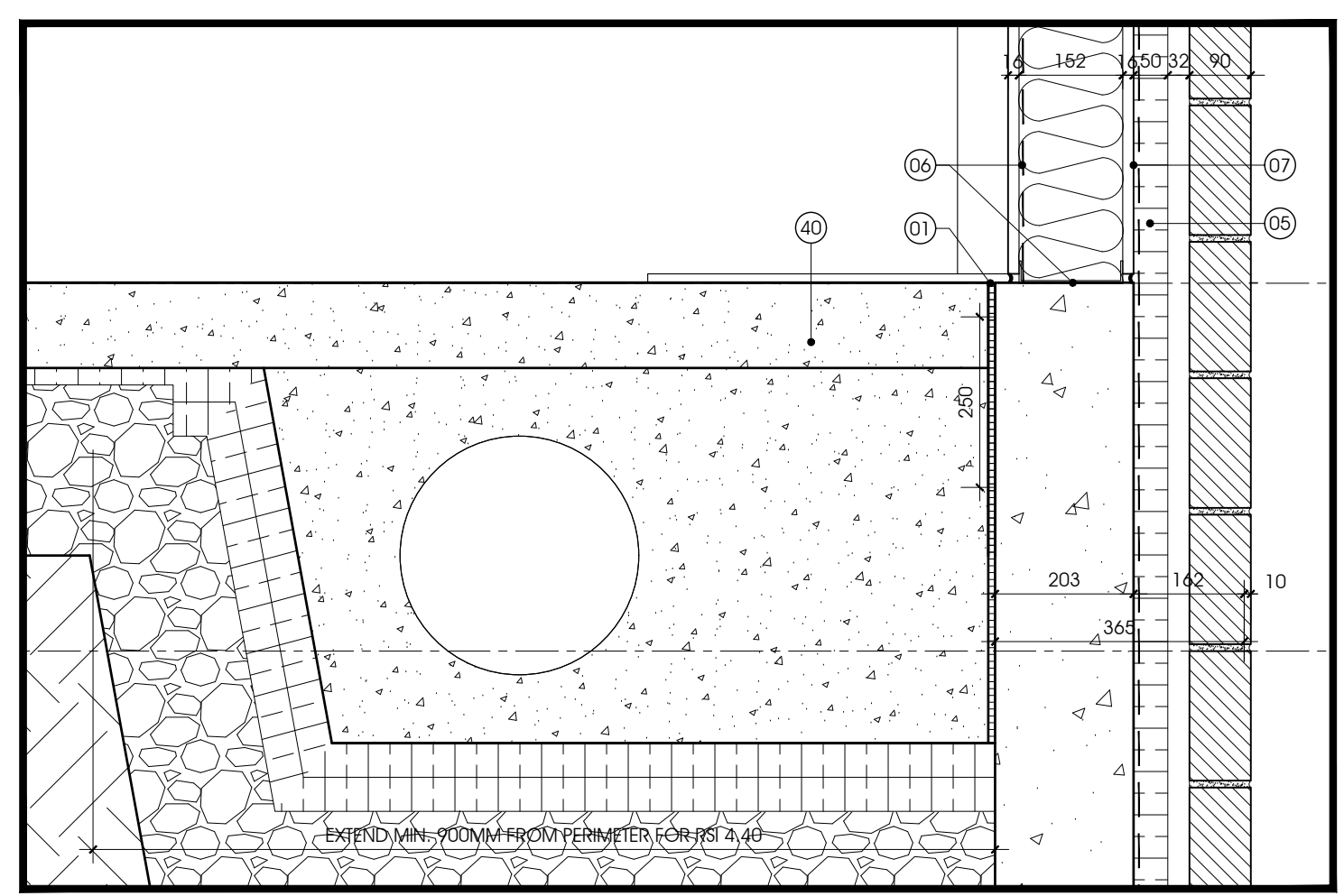
6 CONNECTION DETAIL @ EXISTING NEW STAGE
A610 1:10



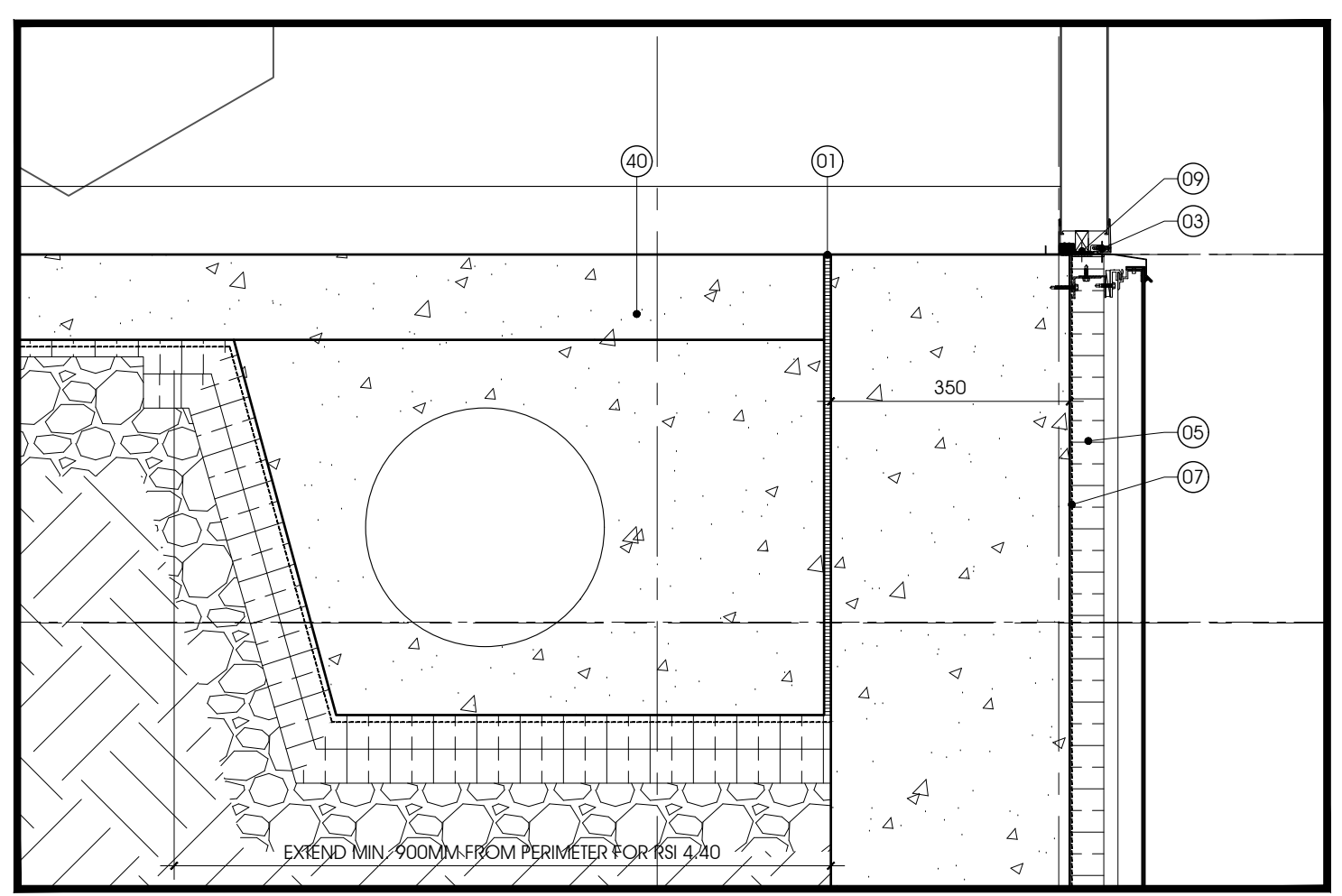
10 FOUNDATION DETAIL @ TRANSLUCENT PANEL
A610 1:10



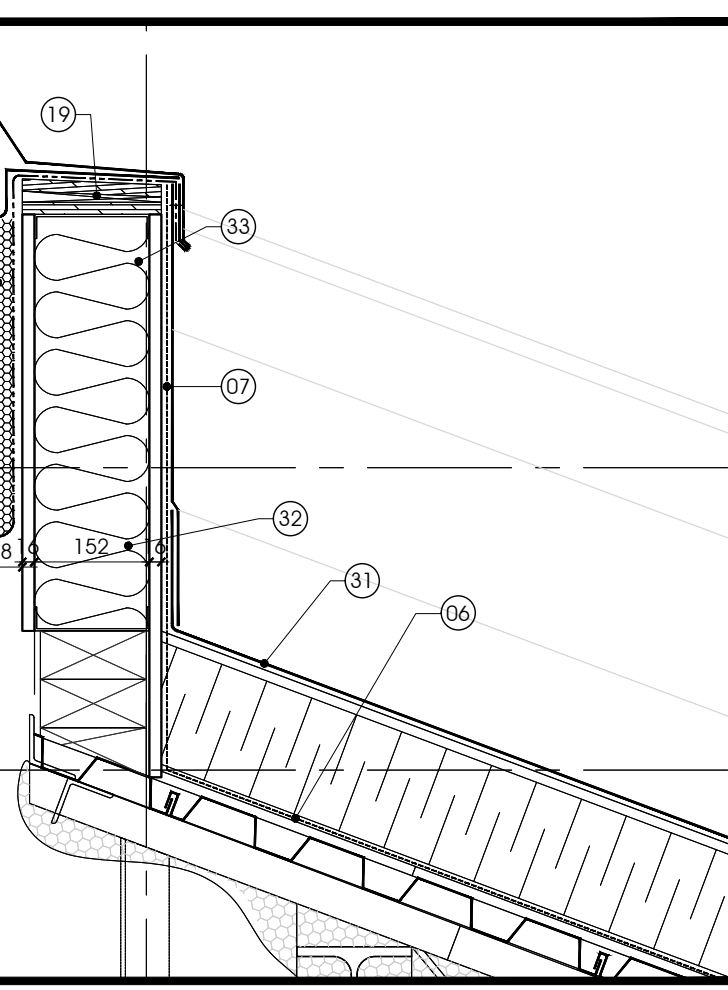
3 CONNECTION DETAIL @ METAL PANEL
A610 1:10



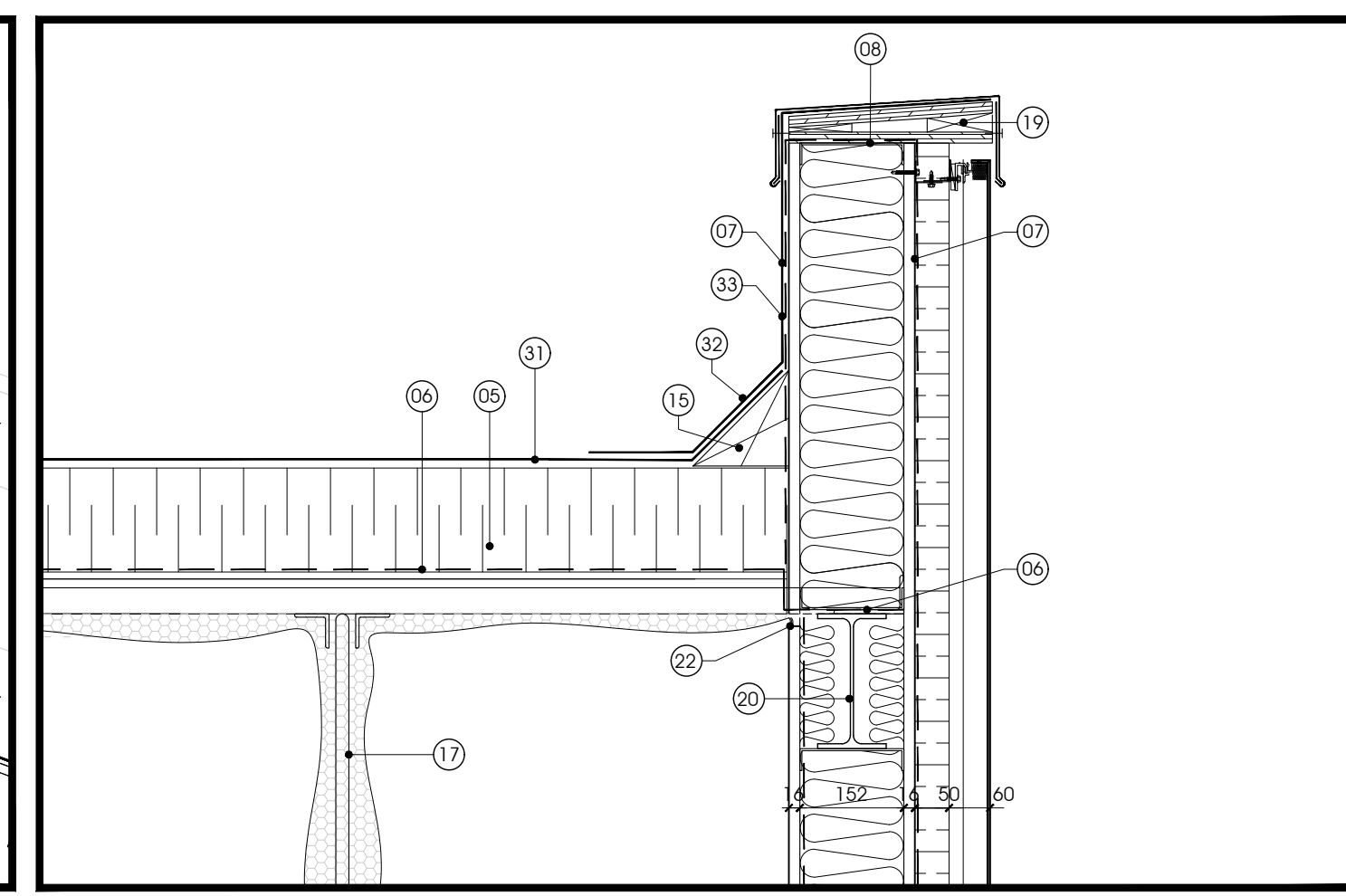
7 TYPICAL FOUNDATION DETAIL @ BRICK
A610 1:10



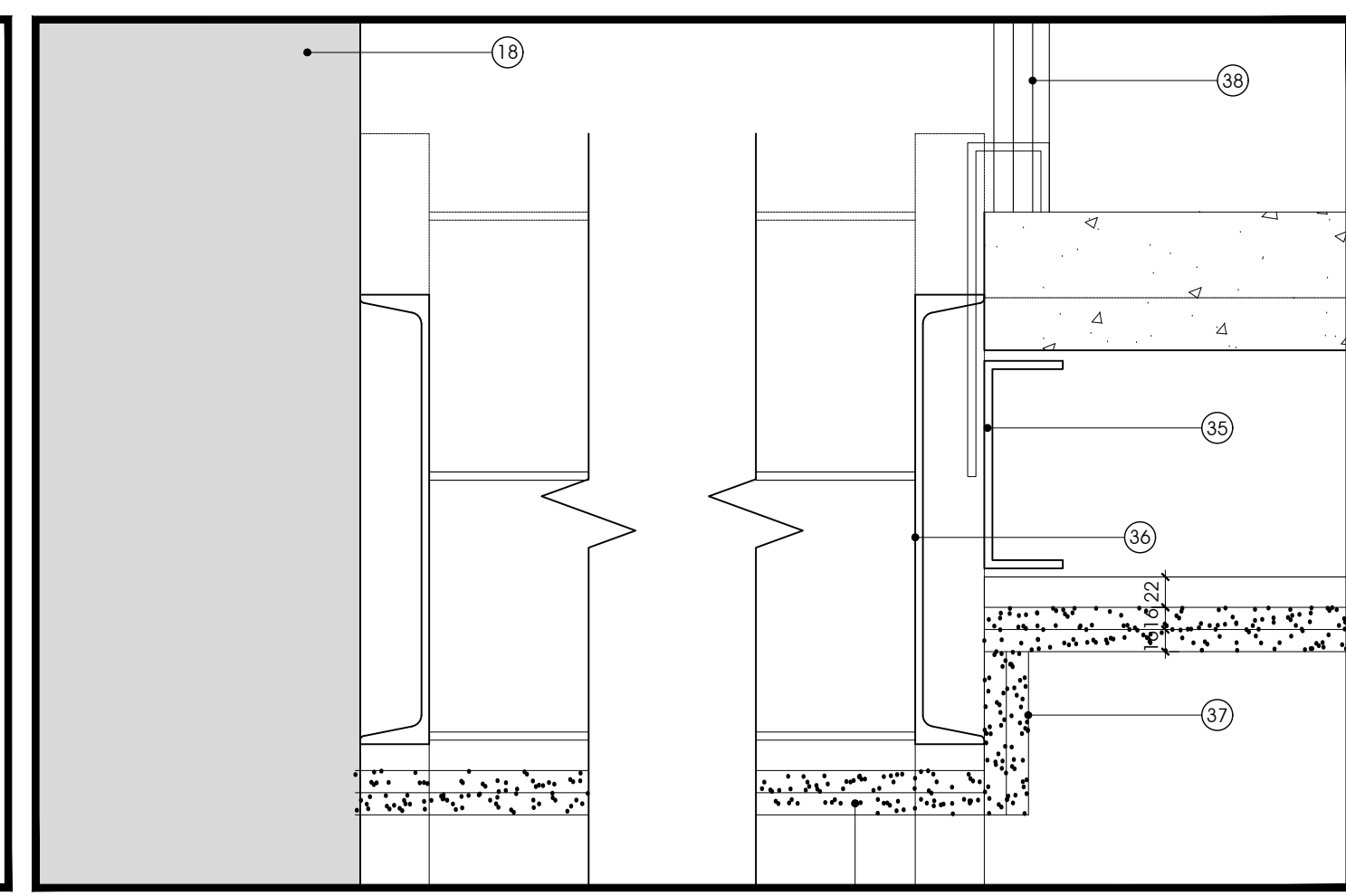
11 STAIR SECTION @ TREAD
A610 1:5



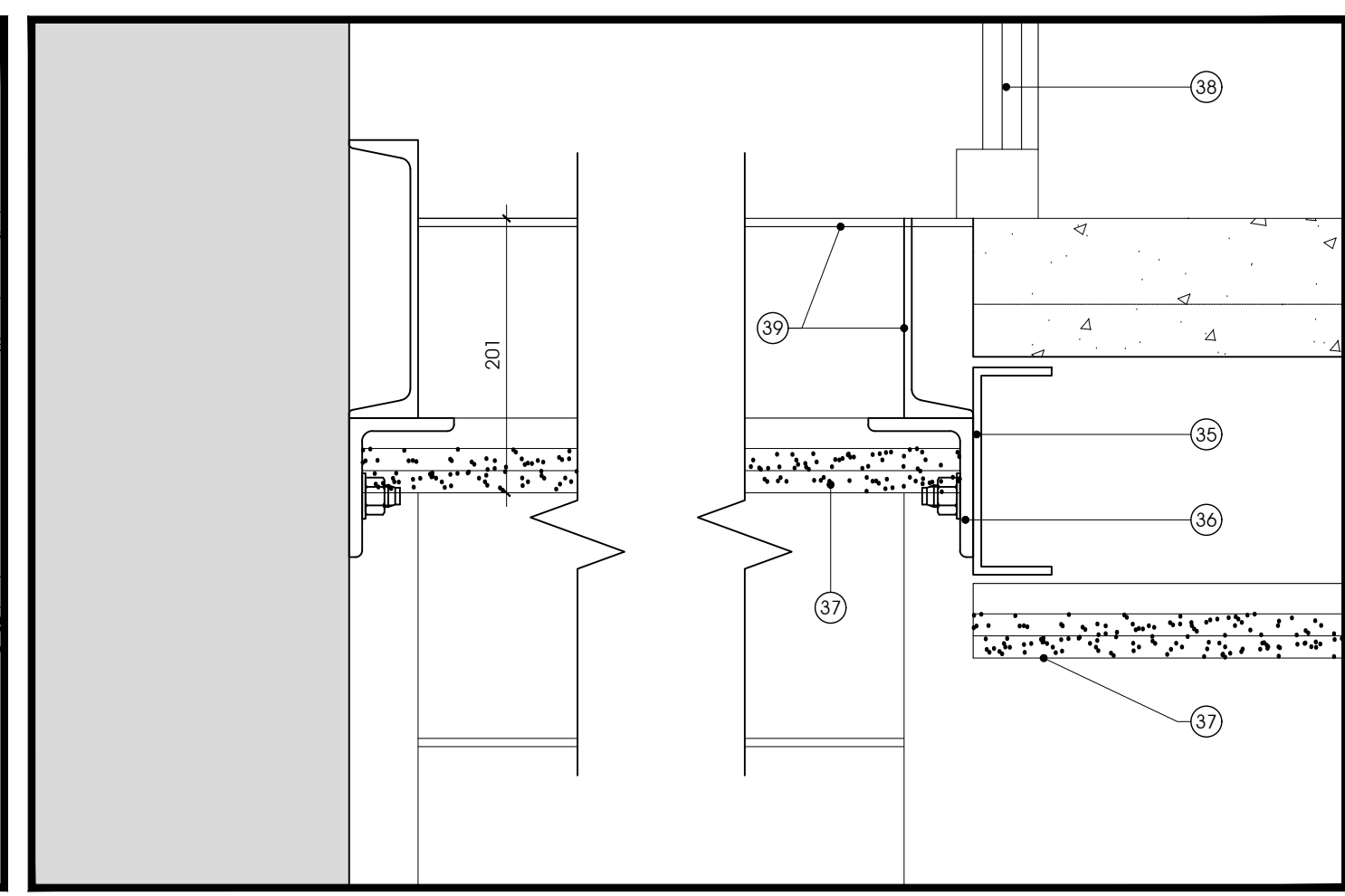
4 PARAPET DETAIL @ NEW ROOF
A610 1:10



8 TYPICAL BEAM ENCLOSURE DETAIL @ EXTERIOR WALL
A610 1:10



12 STAIR SECTION @ LANDING
A610 1:5



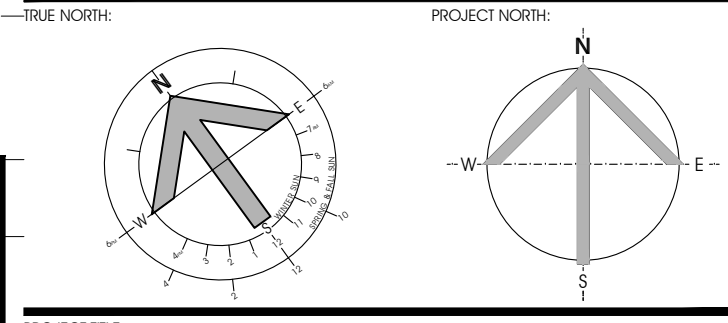
12 STAIR SECTION @ LANDING
A610 1:5

ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

REVISION	DATE	BY	APPROVED
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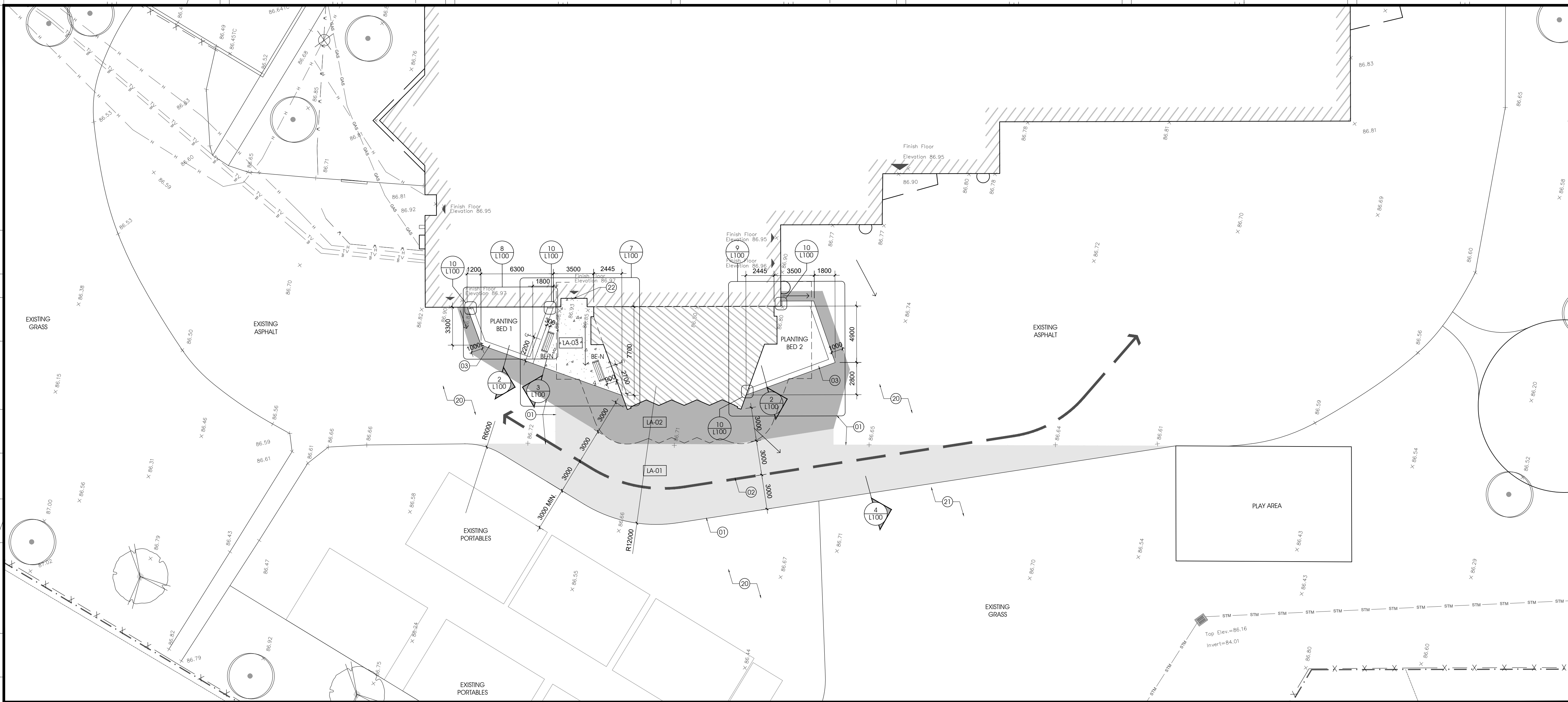
CIVITAS ARCHITECTURE INC. 14 CHAMBERLAN AVENUE, SUITE 101
OTTAWA, ON CANADA K1S 1V9
T: 613.742.7492
WWW.CIVITAS-INC.CA



PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
6025 PROMENADE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:
**NEW CONSTRUCTION
SECTION DETAILS**

DRAWN BY:	DATE:	2018-05-30	DR:	DRAWING NUMBER:	
REVIEWED BY:	DATE:		DR:		
APPROVED BY:	DATE:	2018-05-24	DR:		
ISSUED FOR:	DATE:	2018-05-30	DR:		
CLIENT PROJECT #:			REVISION NUMBER:		
					A610
					1553



LEGEND

	PROPERTY LINE
	FIRE ROUTE LINE
	EXISTING BUILDING AREA
	NEW BUILDING AREA
	EXISTING FENCE
	BUILDING ENTRANCES & EXITS
	NEW BENCH
	LANDSCAPE PLANTING MARKER
	TYPE OF TREE, REFER TO PLANTING SCHEDULE
	QUANTITY, REFER TO PLANTING SCHEDULE
	LANDSCAPE ASSEMBLY MARKER
	NEW CONIFEROUS TREE, SEE DETAIL 6/L100
	PLANTING BED: ORNAMENTAL GRASSES AND SHRUBS, REFER TO DETAIL 5/L100
	STANDPIPE SAMEZE CONNECTION
	FIRE HYDRANT
	LIGHT POST
	CATCH BASIN
	MANHOLE
	WATER VALVE
	EXISTING HYDRO LINE, UNDERGROUND
	EXISTING BELL LINE, UNDERGROUND
	EXISTING SANITARY LINE, UNDERGROUND
	EXISTING STORM LINE, UNDERGROUND
	EXISTING WATER LINE, UNDERGROUND
	EXISTING GAS LINE, UNDERGROUND
	EXISTING CABLE LINE, UNDERGROUND

LEGEND SYMBOLS ARE TYPICAL AND MAY NOT ALL APPLY TO THIS SPECIFIC PROJECT.

CLIENT LOGO:

CONSEIL DES ÉCOLES PUBLIQUES DE L'EST DE L'ONTARIO

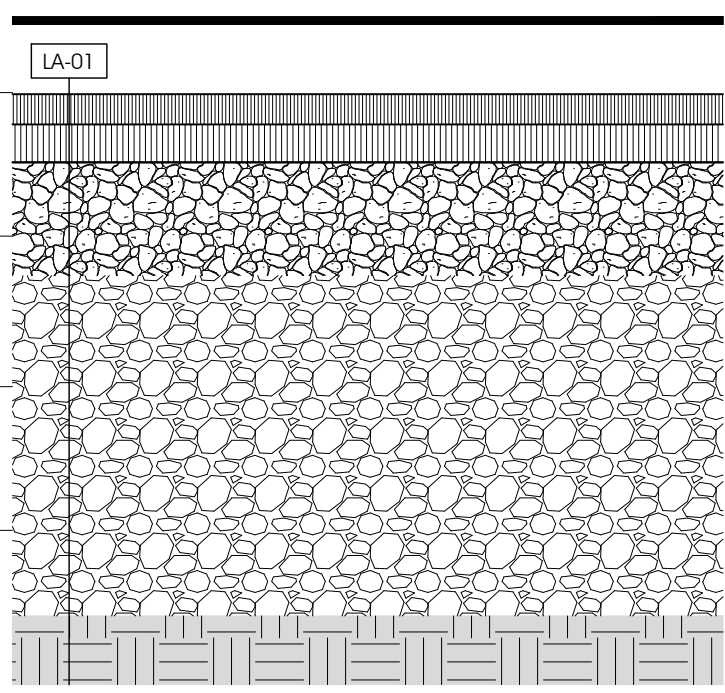
DRAWING NOTES, L100

- MEET AND MATCH EXISTING PAVEMENT. PROVIDE CLEAN SAW-CUT BETWEEN EXISTING AND NEW.
- REVISED FIRE ROUTE LANE
- NEW CONCRETE PLANTER CURB
- FINISHED GRADE
- EXISTING ASPHALT SURFACE
- ASPHALT TO BE LAID WITH CLEAN, STRAIGHT EDGE ADJACENT TO CONCRETE PAVEMENT.
- FOR DISTANCE OF 600 mm MIN. FROM CONCRETE, ALLOW FOR THICKENED ASPHALT BASE TO MATCH DEPTH OF ADJACENT CONCRETE PAVEMENT.
- EXISTING GRASSED AREA
- FINISHED GRADE FLUSH WITH EDGE OF ASPHALT
- ROLLED ASPHALT EDGE, MIN. THICKNESS 125 mm
- 10 mm CONTINUOUS REBAR @ 300 mm O.C.
- TOPSOIL COMPACT TO ELIMINATE AIR POCKETS AND PREVENT SETTLEMENT.
- MINIMUM 75 mm DEPTH MULCH. PULL BACK MULCH FROM BASE OF TRUNK OR STEMS. ENSURE THAT MULCH COVERS ALL EXPOSED SOIL.
- COMPACTED OR UNDISTURBED SUBGRADE. SCARIFY SUBGRADE OF PLANTING BED.
- PERFORM REQUIRED PRUNING TO APPROVAL OF CONSULTANT, AND REMOVE ALL NURSERY TAGS ONCE APPROVED.
- ROOTBALL SET WITH TOP OF ROOT COLLAR AT 100 mm ABOVE SURROUNDING FINISHED GRADE TO ALLOW FOR SETTLEMENT.
- REMOVE WIRES, BINDING AND BURLAP FROM TOP 2/3 OF ROOTBALL OR REMOVE POIS COMPLETELY FROM POTTED MATERIAL.
- ROOTBALL SET ON WELL COMPACTED TOPSOIL, RAISED AT CENTRE.
- BUILT UP AREA TO PROVIDE 100 mm HIGH SAUCER.
- PROTECT ADJACENT AREAS OUTSIDE THE LIMITS OF WORK THROUGHOUT COURSE OF CONSTRUCTION. ALL DAMAGE AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED AND MADE GOOD TO MATCH EXISTING.
- REINSTATE ALL DISTURBED AND DAMAGED GRASS AREAS. SCARIFY SOIL AND FILL WITH TOPSOIL TO MATCH SURROUNDING FINISHED GRADE. INSTALL SOD. NEW PAVEMENT TO MEET AND MATCH DOOR THRESHOLD.
- EXPANSION / ISOLATION JOINT
- CONSTRUCTION JOINT
- PROVIDE 15M EPOXY COATED REINFORCEMENT BAR FROM SLAB TO EXISTING BUILDING FOUNDATION WALL, 100mm EMBEDMENT.
- FOR PLANT SPECIES, REFER TO PLANTING SCHEDULE.
- FOR PLANT SPACING, REFER TO PLANTING SCHEDULE.
- DIRECTION OF BROOM FINISH
- NEW SOD
- CONTINUOUS ASPHALT IMPREGNATED FIBRE BOARD JOINT.
- EXISTING OR NEW CONCRETE BUILDING FOUNDATION WALL
- EXISTING / NEW BRICK VENEER

ISSUED FOR TENDER
BUILDING PERMIT APPLICATION

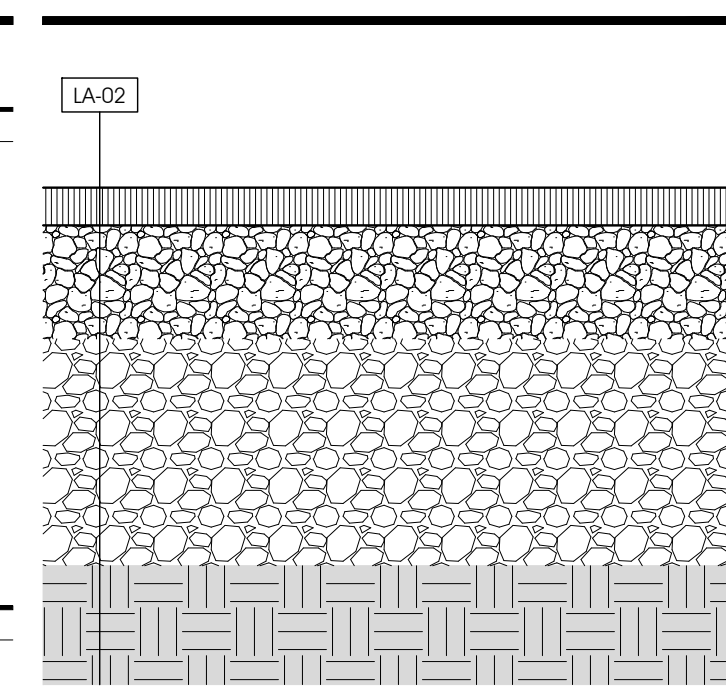
REVISION	DATE	BY	APP'D
5			
4			
3			
2			
1			

1 LANDSCAPE LAYOUT PLAN
L100/1:200



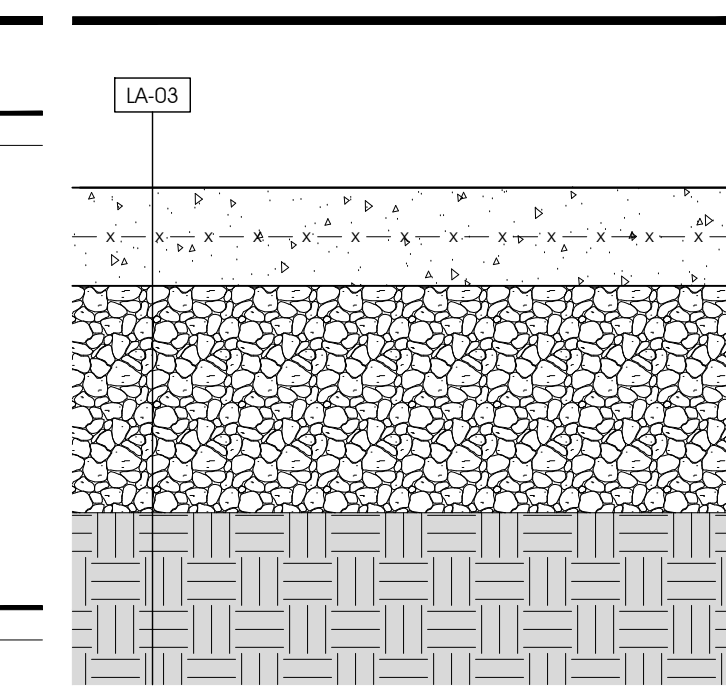
LA-01 - ASPHALTIC PAVEMENT ASSEMBLY FOR HEAVY VEHICLE TRAFFIC
ASSEMBLY DESCRIPTION:
50mm SURFACE COURSE - SUPERPAVE 12.5 (OR HL3F) ASPHALTIC CONCRETE
50mm BASE COURSE - SUPERPAVE 19 D (OR HL8) ASPHALTIC CONCRETE
150mm OPSS GRANULAR A CRUSHED STONE
450mm OPSS GRANULAR B TYPE II
PREPARED AND APPROVED SUBGRADE.

REMARKS:



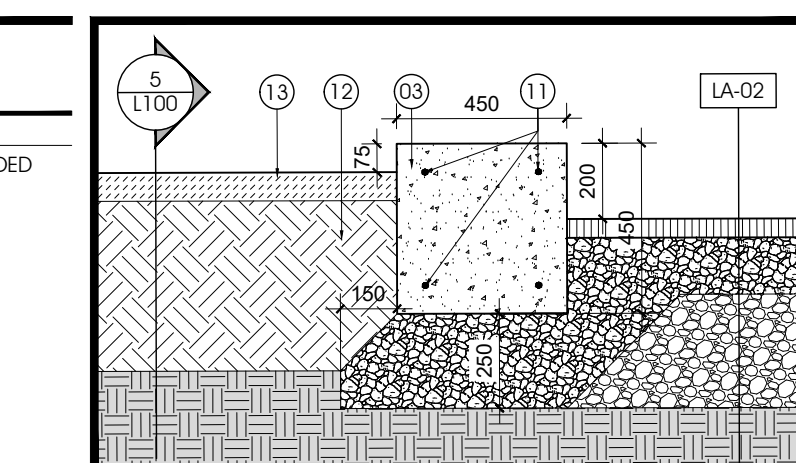
LA-02 - ASPHALTIC PAVEMENT ASSEMBLY FOR LOW VEHICULAR TRAFFIC
ASSEMBLY DESCRIPTION:
50mm SURFACE COURSE - SUPERPAVE 12.5 (OR HL3F) ASPHALTIC CONCRETE
150mm OPSS GRANULAR A CRUSHED STONE
300mm OPSS GRANULAR B TYPE II
PREPARED AND APPROVED SUBGRADE.

REMARKS:

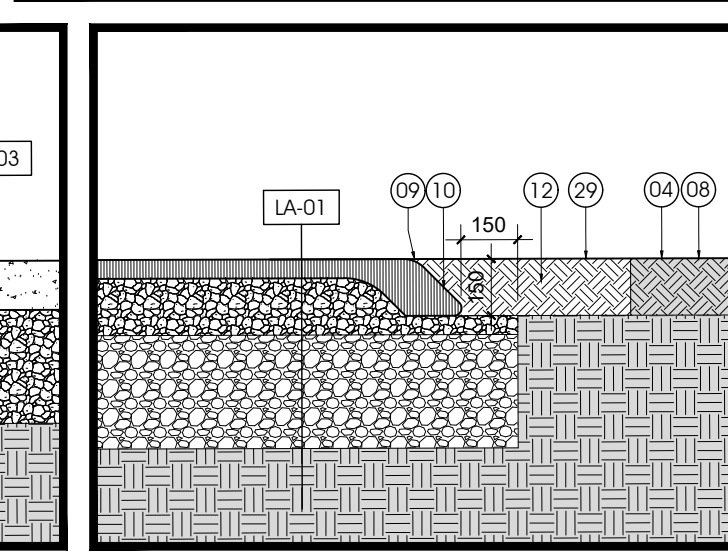
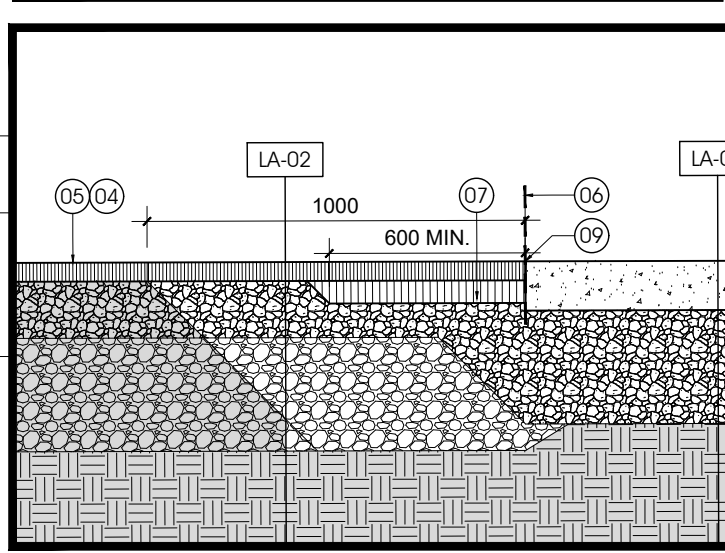


LA-03 - CAST-IN-PLACE CONCRETE LANDSCAPE ASSEMBLY
ASSEMBLY DESCRIPTION:
130mm 35Mpa CONCRETE PAVEMENT WITH 150x150x100 mm 9.1/9.1 WELDED WIRE MESH REINFORCEMENT, 50mm CLEAR
300mm MIN. COMPACTED OPSS GRANULAR A CRUSHED STONE
PREPARED AND APPROVED SUBGRADE.

REMARKS:
BROOM FINISH, DIRECTION AS SHOWN ON DETAIL 7/L100.



2 CONCRETE PLANTER CURB DETAIL
L100/1:20



3 ASPHALT TO CONCRETE TRANSITION
L100/1:20

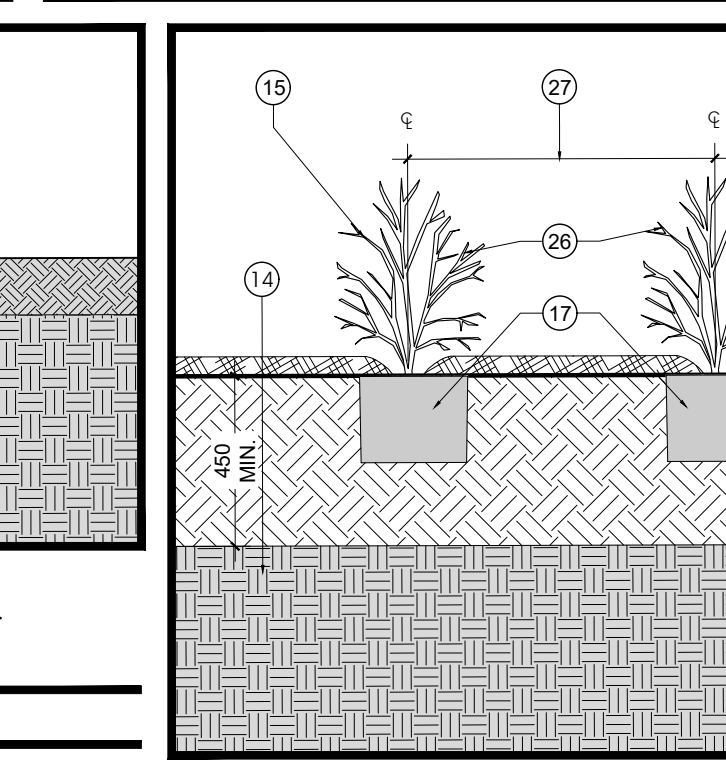
4 ASPHALT ROLLED CURB DETAIL
L100/1:20

PLANTING SCHEDULE

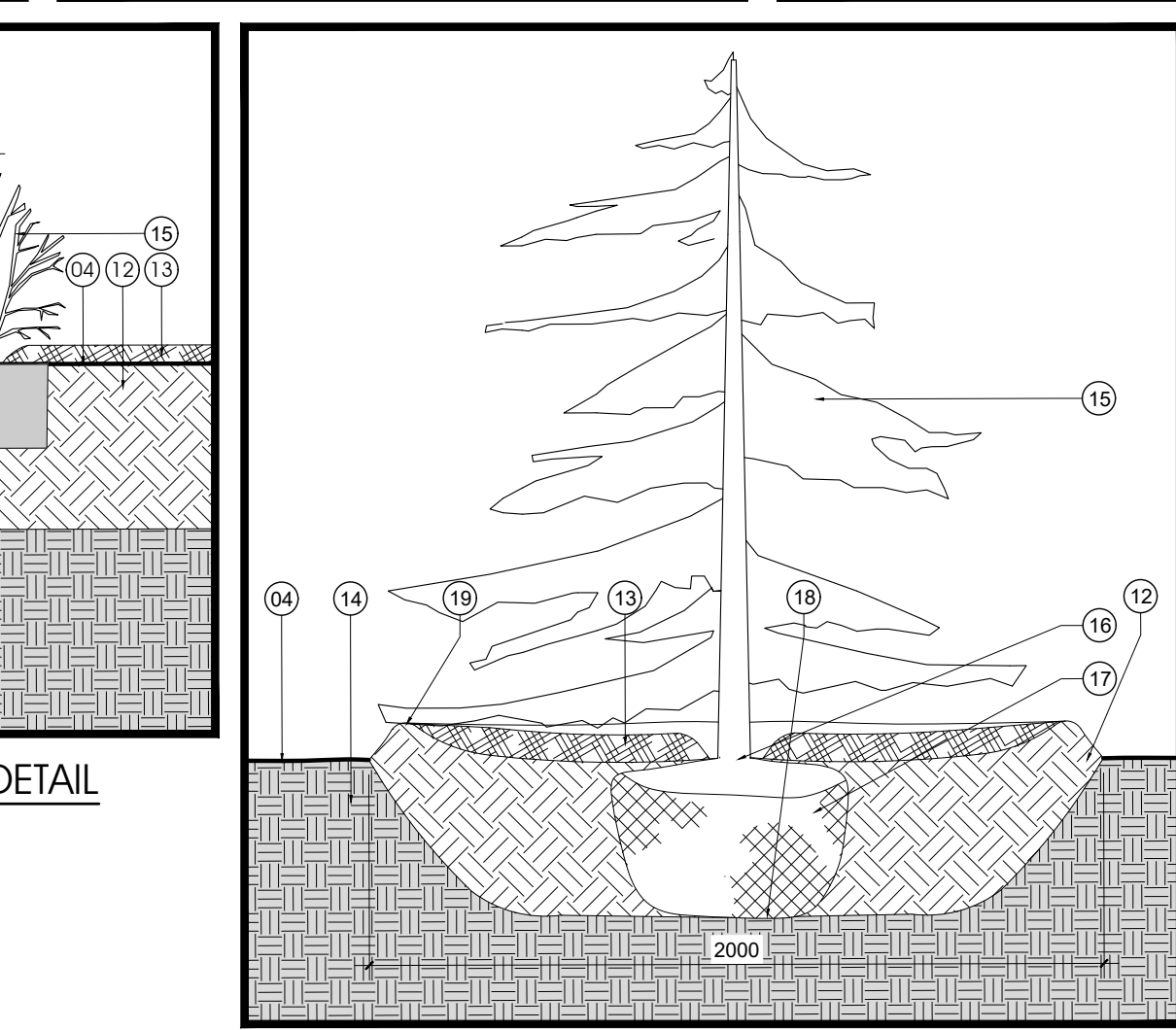
CONIFEROUS SHRUBS						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	CONDITION
PAC	1	PICEA ABIES 'CUPRESSINA'	COLUMN NORWAY SPRUCE		175cm HT	B&B
TOH	3	THUJA OCCIDENTALIS 'HOLMSTRUP CEDAR'	HOLMSTRUP CEDAR		125cm HT	POT / B&B
TOC	2	THUJA OCCIDENTALIS 'RHEINGOLD'	RHEINGOLD CEDAR		100cm HT	POT / B&B
LOW	1	THUJA OCCIDENTALIS 'WINTERGREEN'	WINTERGREEN CEDAR		200cm HT	B&B

DECIDUOUS SHRUBS						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	CONDITION
PCB	4	PHYSCARPUS OPULIFOLIUS 'BURGUNDY CANDY'	BURGUNDY CANDY NINEBARK	125cm	50cm	POT
PCc	5	PHYSCARPUS OPULIFOLIUS 'CARAMEL CANDY'	CARAMEL CANDY NINEBARK	125cm	50cm	POT

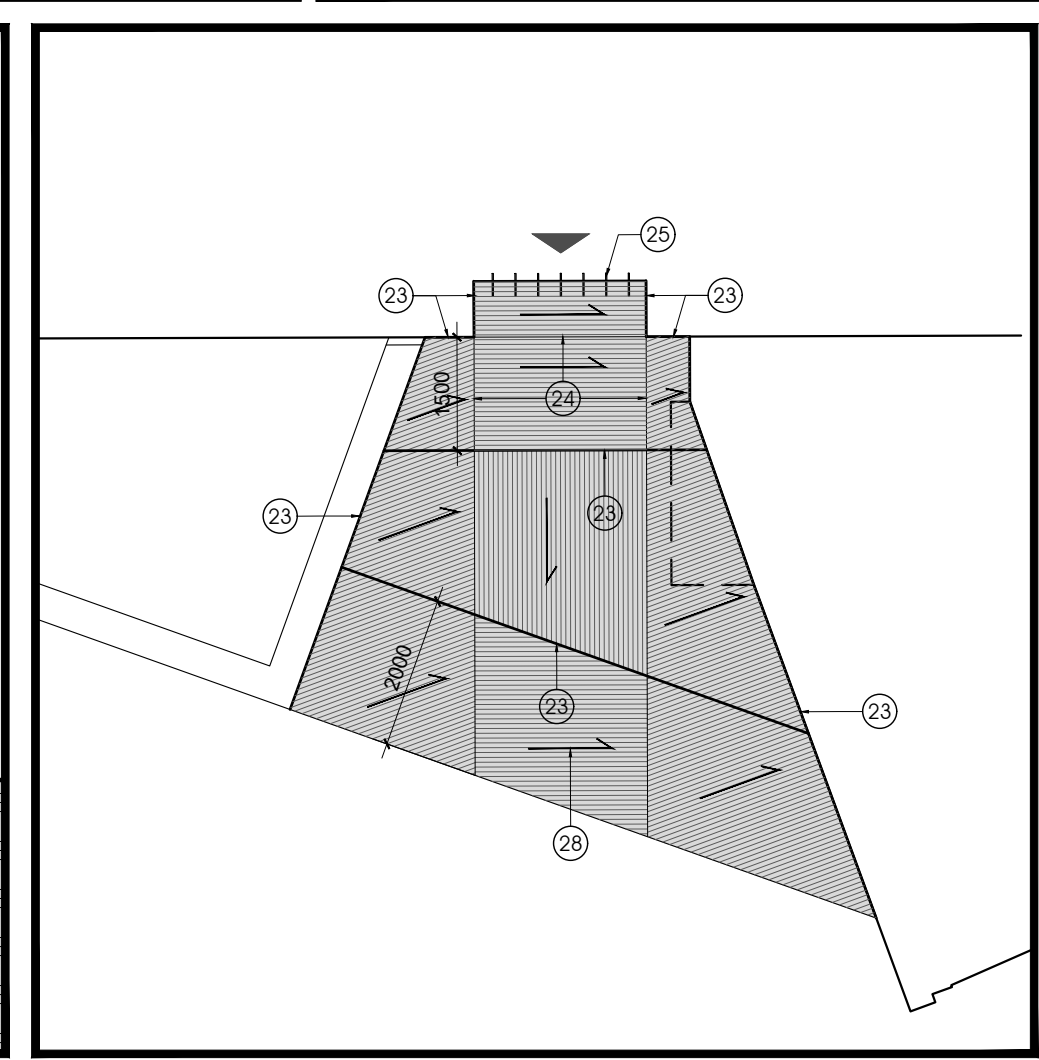
ORNAMENTAL GRASS						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	CONDITION
bg	100	BOUTELOUA GRACILIS	BLUE GRAMA	30cm	1 GAL.	POT



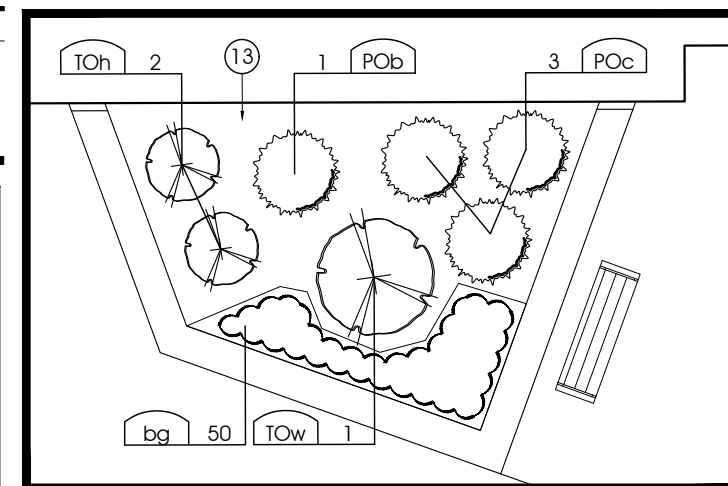
5 SHRUB/GRASS PLANTING DETAIL
L100/1:20



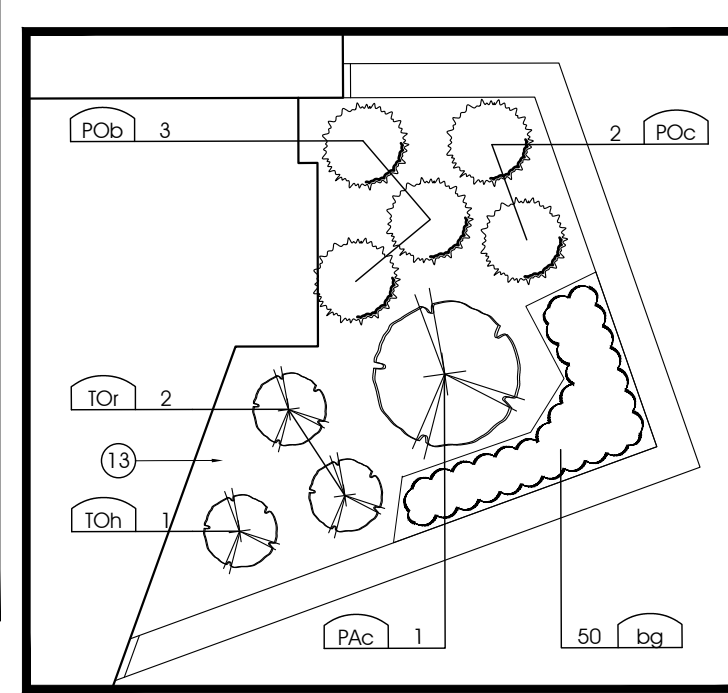
6 CONIFEROUS TREE PLANTING DETAIL
L100/1:20



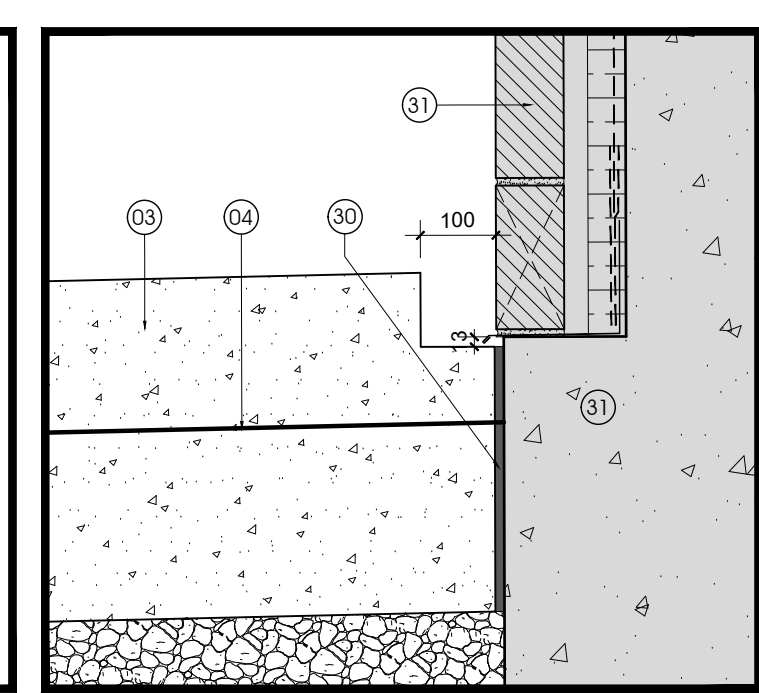
7 PAVEMENT JOINT LAYOUT PLAN
L100/1:100



8 PLANTING PLAN - BED 1
L100/1:100



9 PLANTING PLAN - BED 2
L100/1:100



10 PLANTING CURB DETAIL AT WALL
L100/1:10

CIVITAS GROUP
ARCHITECTURE & LANDSCAPE ARCHITECTURE

14 CHAMBERLAIN AVENUE, SUITE 101 | OTTAWA, ON | CANADA K1S 1V9 | TEL: 613.742.7492 | WWW.CIVITAS-INC.CA

PROJECT NORTH:

PROJECT TITLE: **ÉCOLE LE PRÉLUDE MUSIC ROOM**

6025 PROMENADE LONGLEAF ORLÉANS, ON

DRAWING TITLE: **LANDSCAPE LAYOUT PLAN PAVEMENT ASSEMBLIES, DETAILS**

DRAWN BY:	2018-05-30	DATE:	2018-05-30
REVIEWED BY:	DX	DATE:	2018-05-24
APPROVED BY:	DX	DATE:	2018-05-30
ISSUED FOR:	TENDER	DATE:	2018-05-30

CLIENT PROJECT #: **1553**

GENERAL NOTES:

- 1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (OBC), SUPPLEMENTED BY THE 2010 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY...

DESIGN LOADS (con't):

Table with 2 columns: Item and YES/NO. Includes items like Irregularity Review, Vertical Stiffness, Shear, Vertical Geometric, Inplane Discontinuity, Out-of-Plane, Weap Storey, Torsional, Non-Orthogonal, and Conclusion.

Table with 2 columns: Item and YES/NO. Includes items like Base Shears, NS Directions, EW Directions, and Design Base Shears & Overturning Moments.

Table with 2 columns: Item and YES/NO. Includes items like Dynamic Analyses, Final Scale, and Building Information.

- 15. PROVIDE REASONABLE NOTICE (NOT LESS THAN 24 HOURS) PRIOR TO CONCEALING ANY WORK THAT REQUIRES INSPECTION, REVIEW, OR TESTING...

DESIGN LOADS:

- 1. THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2012 OBC FOR THE SPECIFIC LOCATION OF PEMBRIDGE, ONTARIO.

Table with 2 columns: Building Information and Values. Includes items like Building Type, Internal Pressure Category, Wind Load, and Factored Base Shears & Overturning Moments.

SHOP DRAWINGS

- 1. SUBMIT FOR REVIEW ALL SHOP DRAWINGS REQUIRED THESE DRAWINGS AND SPECIFICATIONS.

Table with 2 columns: System & Connections, Diaphragms & Connections, Foundations. Includes details like Building Code, CSA Standards, and Remarks.

Table with 2 columns: Item and Value. Includes items like Seismic Force Resisting System, Site Class, and Design Spectral Response Acceleration Values.

DESIGN SPECTRAL RESPONSE ACCELERATION VALUES
S0.2) = 0.722; S0.5) = 0.4216; S1.0) = 0.194; S2.0) = 0.0626; S4.0) = 0.013

FOUNDATIONS

- 1. THE STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY: GEOTECHNICAL FIRM: LRL ASSOCIATES...

CONCRETE

- 1. CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION AS OUTLINED IN CANCSA A23.1...

Table with 4 columns: Structural Element, Compressive Strength, Exposure Class, Remarks. Lists elements like Footings, Piers, Grade Beams, Foundation Walls, Slab-on-Grade, and Slabs on Floor Deck.

CONCRETE REINFORCEMENT

- 1. REINFORCEMENT TO CONFORM TO THE FOLLOWING STANDARDS: DEFORMED BARS - CANCSA C33.18, GRADE 400R...

Table with 3 columns: Element, Interior (up to 2Hr Rating), Exposed. Lists elements like Footings, Formed Sides, Rebar Reinforced Slabs, and Concrete without Membrane.

STRUCTURAL STEEL

- 1. CONFORM TO CSA S16.

- 1. FINISH CONCRETE IN ACCORDANCE WITH A23.1.

FLOOR DECK ASSEMBLIES

- 1. CONFORM TO S136 FOR STEEL DECKING, AND TO CONCRETE AND CONCRETE REINFORCEMENT NOTES.

- 1. PROVIDE CONSTRUCTION CONTROL AND SAWCUT JOINTS WHERE SPECIFIED OR SPECIFICALLY SHOWN ON DRAWINGS...

DRAWING LEGEND

Table with 3 columns: Symbol, Description, and Notes. Lists various symbols for load, connection, reinforcement, and materials.



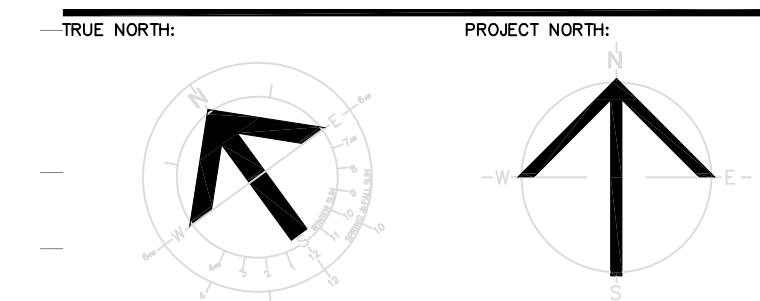
CLIENT LOGO: Conseil des écoles publiques de l'Est de l'Ontario

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS...

Table with 2 columns: Revision Number and Date. Lists revisions from 1 to 6.



STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE: ÉCOLE LE PRÉLUDE MUSIC ROOM
6025 PROMENAGE LONGLEAF ORLÉANS, ON

SPECIFICATIONS, LEGENDS

Table with 2 columns: Item and Value. Lists drawing information like Date, Author, and Project Number.

S-100

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL JOINT REINFORCEMENT
140 (6")	1-10@800 (2-4")	2-3#6 @ 400 (1")
190 OR 240 (8" OR 10")	1-15@1200 (1-4")	2-3#6 @ 200 (8")
290 (12")	1-15@1000 (2-4")	2-3#6 @ 200 (8")

• USE DEFORMED WIRE JOINT REINFORCEMENT.
 • LAP SPICE VERTICAL REINFORCEMENT 10M + 400 (16"), 15M + 630 (24")
 • LAP SPICE JOINT REINFORCEMENT 300 (12").

TYPICAL SEISMIC REINFORCEMENT FOR NON-LOAD BEARING MASONRY WALLS WITH A SEISMIC HAZARD INDEX GREATER OR EQUAL TO 0.75
 $I_e F_a S_a (0.2) \geq 0.75$

D4001A
 JUN 10

TYPICAL REINFORCEMENT AT HOLE IN STEEL COLUMN FOR PIPE
D5002
 JUN 10

TYPICAL DETAIL AT STEEL BEAM PARALLEL OR ANGLED TO STEEL DECK
D5105
 JUN 12

TYPICAL SUPPORT OF SLOPED ROOF DECK
T5104
 DEC 12

TYPICAL ANCHORAGE OF BRIDGING TO STEEL
T5209
 OCT 09

TYPICAL ROOF DECK OPENINGS
T5303
 OCT 10

TYPICAL REINFORCEMENT AT HOLES IN STEEL BEAMS FOR PIPES
D5106
 JUN 12

• PLACE HOLES IN MIDDLE THIRD OF BEAM DEPTH AND IN MIDDLE THIRD OF SPAN

TYPICAL REINFORCEMENT AT HOLE IN STEEL BEAM FOR DUCT
D5107
 JUN 10

• ADD PLATE EACH SIDE OF WEB CONTINUOUS WELDS BOTH SIDES BUT NOT LESS THAN 300 (12")
 • 11-EQUALS FLANGE THICKNESS x 0.75
 • 12-EQUALS WEB THICKNESS
 • OPENING TO BE CONFINED TO MIDDLE 1/3 OF SPAN
 • ONE OPENING PER BEAM UNLESS OTHERWISE APPROVED BY STRUCTURAL ENGINEER
 • NO CONCENTRATED LOADS OVER HOLE AND WITHIN A DISTANCE 1/2" EITHER SIDE OF HOLE

DIAPHRAGM SHEAR TRANSFER AT PERIMETER BEAM
PD01
 JUN 12

NOTE:
 1. DIAPHRAGM SHEAR TRANSFER TO BEAMS NOT SHOWN IN SECTIONS FOR CLARITY.
 2. WHERE DECK EDGE EXTENDS BEYOND BEAM, EXTEND HORIZONTAL LEG OF BENT PLATE OR INCREASE ANGLE SIZE AS REQUIRED TO CONNECT TO DIAPHRAGM SHEAR TRANSFER ELEMENT.

DIAPHRAGM SHEAR TRANSFER AT INTERIOR BEAM
PD02
 JUN 12

NOTE:
 1. DIAPHRAGM SHEAR TRANSFER TO BEAMS NOT SHOWN IN SECTIONS FOR CLARITY.

NOTES:

- CONNECT BACK TO BACK DOUBLE ANGLES USING MIN. 16 (5/8") BOLTS @ 450 (14") MAX. OR BY WELDING @ TOP & BOTTOM USING 6mm (1/4") WELDS @ 50 (2") L.G. @ 450 (14") MAX. LOCKE FIRST CONNECTION MAX. 75 (3") FROM END OF BRITEL.
- PROVIDE STEEL PACKING AS REQUIRED TO ENSURE EVEN BEARING OF STEEL LINTELS.
- STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
- SEE PLANS FOR SPECIAL LINTELS.

REINFORCEMENT AT SIDES OF OPENINGS (IF SHOWN ON PLANS OR DETAILS) TO CLEAR LINTEL BEARING

MIN. 200 (8") CAST-IN PLACE CONCRETE WALL OR COLUMN
 25 (1") MAX.
 178x102x6 (6x4) + 2x16 (5/8") DECK

LINTEL SUPPORTED BY POURED CONCRETE WALL

WALL THICKNESS	SPAN	ANGLE SIZE	DETAIL
90 (4") VENEER	UP TO 1200 (4-0")	89x89x6.4	
	1200 (4-0") TO 1800 (6-0")	127x89x6.4	
	1800 (6-0") TO 2400 (8-0")	127x89x6.4	
	2400 (8-0") TO 3000 (10-0")	152x89x6.4	
140 (6")	UP TO 1200 (4-0")	2-64x64x6.4	
	1200 (4-0") TO 1800 (6-0")	2-64x64x6.4	
	1800 (6-0") TO 2400 (8-0")	2-89x64x7.9 w/ 100x10 PLATE	
	2400 (8-0") TO 3000 (10-0")	2-89x64x7.9	
190 (8")	UP TO 1200 (4-0")	2-76x89x6.4	
	1200 (4-0") TO 1800 (6-0")	2-89x89x6.4	
	1800 (6-0") TO 2400 (8-0")	2-102x89x7.9	
	2400 (8-0") TO 3000 (10-0")	2-152x89x7.9	
240 (10")	UP TO 1200 (4-0")	2-76x102x6.4	
	1200 (4-0") TO 1800 (6-0")	2-102x102x6.4	
	1800 (6-0") TO 2400 (8-0")	2-102x102x6.4	
	2400 (8-0") TO 3000 (10-0")	2-152x102x7.9	
290 (12")	UP TO 1200 (4-0")	3-76x89x6.4	
	1200 (4-0") TO 1800 (6-0")	3-89x89x6.4	
	1800 (6-0") TO 2400 (8-0")	3-102x89x7.9	
	2400 (8-0") TO 3000 (10-0")	3-127x89x7.9	

STANDARD STEEL LINTELS
 SEE T4101 FOR STANDARD MASONRY LINTELS

D5501
 JUN 10

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
- WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR AMBIGUITIES PRESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MUST SEEK CLARIFICATION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH RESULT AS A FAILURE TO CONTACT JP2G FOR CLARIFICATION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
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- DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICTS TO JP2G FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBTRACTORS AND SHALL ADDRESS CONSTRUCTION TEAM COORDINATION ITEMS PRIOR TO ISSUING REQUESTS FOR INFORMATION FROM JP2G.
- THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

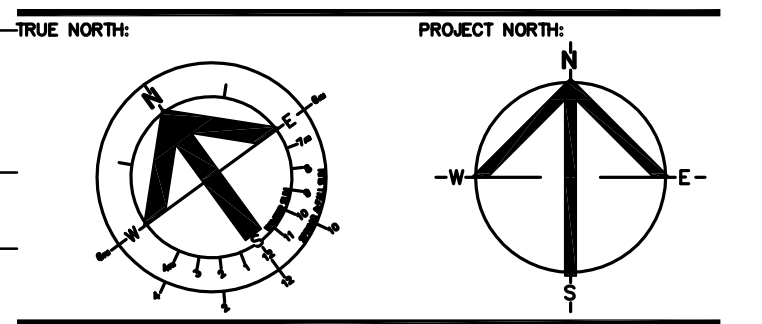
REVISION	DATE
ISSUED TENDER	05/30/2018
ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
ISSUED FOR WORK REVIEW	04/20/2018
ISSUED FOR REVIEW	03/29/2018

NUMBER: REVISION: DATE: (MM/DD/YY)
 PROFESSIONAL STAMP: PROFESSIONAL STAMP:



STRUCTURAL, MECHANICAL & ELECTRICAL:

Jp2g Consultants Inc.
 ENGINEERS • PLANNERS • PROJECT MANAGERS
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 8S9
 PHONE: 613-629-7800 FAX: 613-629-2600



PROJECT TITLE:
ÉCOLE LE PRÉLUDE MUSIC ROOM
 6025 PROMENAGE LONGLEAF ORLÉANS, ON

DRAWING TITLE:
STRUCTURAL DETAILS

DRAWN BY:	DATE:	2018-05-01	YH	DRAWING NUMBER:
REVIEWED BY:	DATE:	5/1/2018	B.J.	1553
APPROVED BY:	DATE:	2018-05-01	S.J.	
PRINT DATE:	ISSUED FOR:	TENDER	REVISION NUMBER:	
CLIENT PROJECT #:	DATE:	2018-05-01	CVPROJECT #	1553

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
2. WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR AMBIGUITIES PRESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MUST SEEK CLARIFICATION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH RESULT AS A FAILURE TO CONTACT JP2G FOR DIRECTION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
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4. DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICTS TO JP2G FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBTRADES AND SHALL ADDRESS CONSTRUCTION TEAM COORDINATION ITEMS PRIOR TO ISSUING REQUESTS FOR INFORMATION FROM JP2G.
6. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING. AND WHERE SHOWN THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

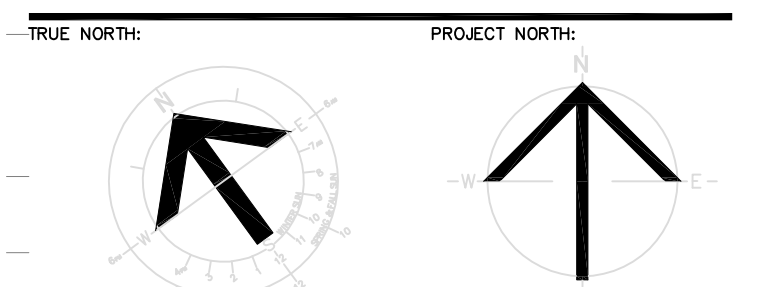
RECORD OF REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED TENDER	05/30/2018
2	ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
3	ISSUED FOR 90% REVIEW	04/20/2018
4	ISSUED FOR REVIEW	03/29/2018

NUMBER REVISION: _____ DATE: (MM/DD/YY)
 PROFESSIONAL STAMP: _____



STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM

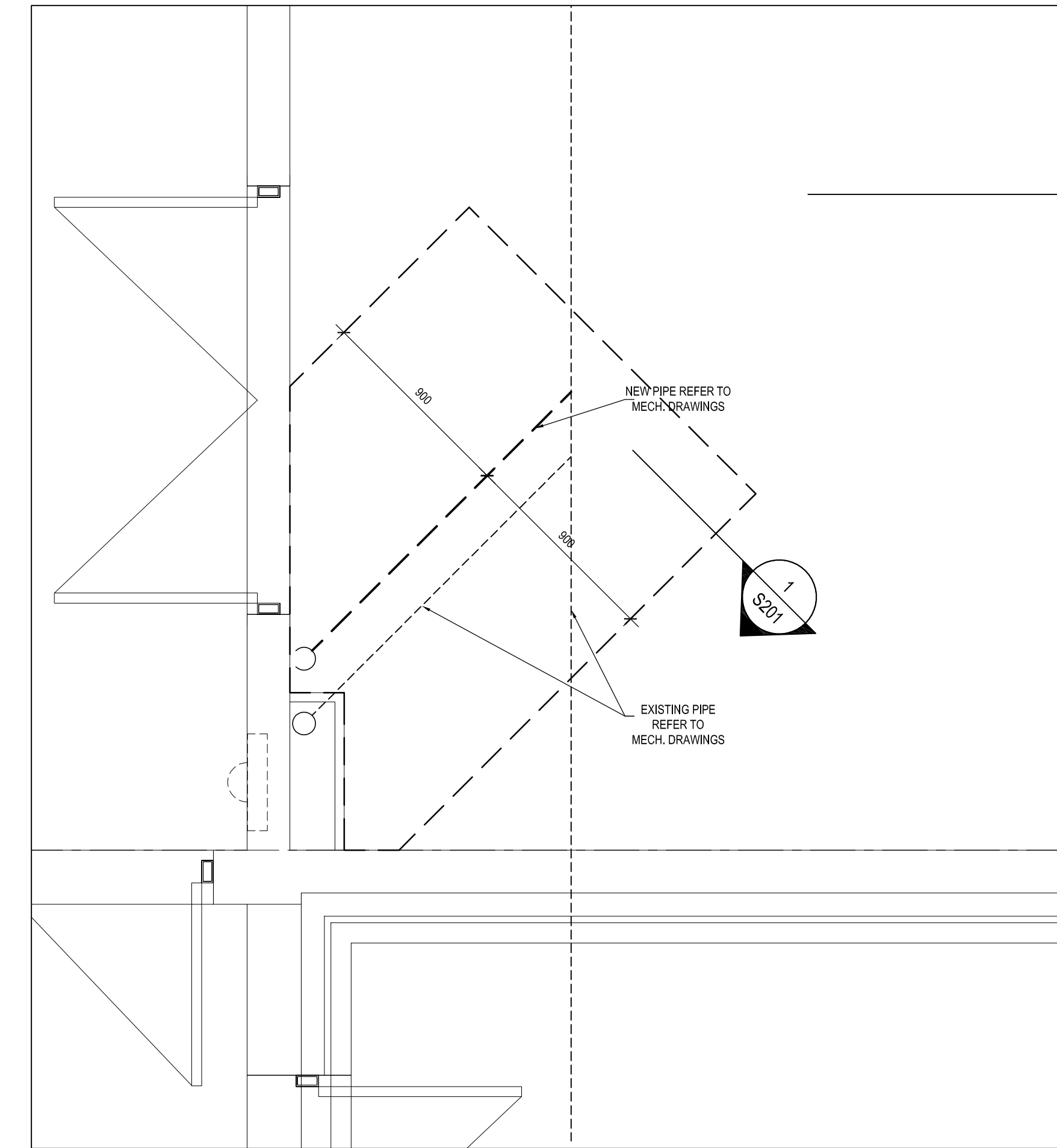
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

GROUND FLOOR PLAN

DRAWN BY:	YH	DRAWING NUMBER:
DATE:	2018-05-01	
REVIEWED BY:	B.J.	
APPROVED BY:	B.J.	
PRINT DATE:	5/1/2018	REVISION NUMBER:
ISSUED FOR:	TENDER	
DATE:	2018-05-01	
CLIENT PROJECT #:		PROJECT #
		1553

S-201



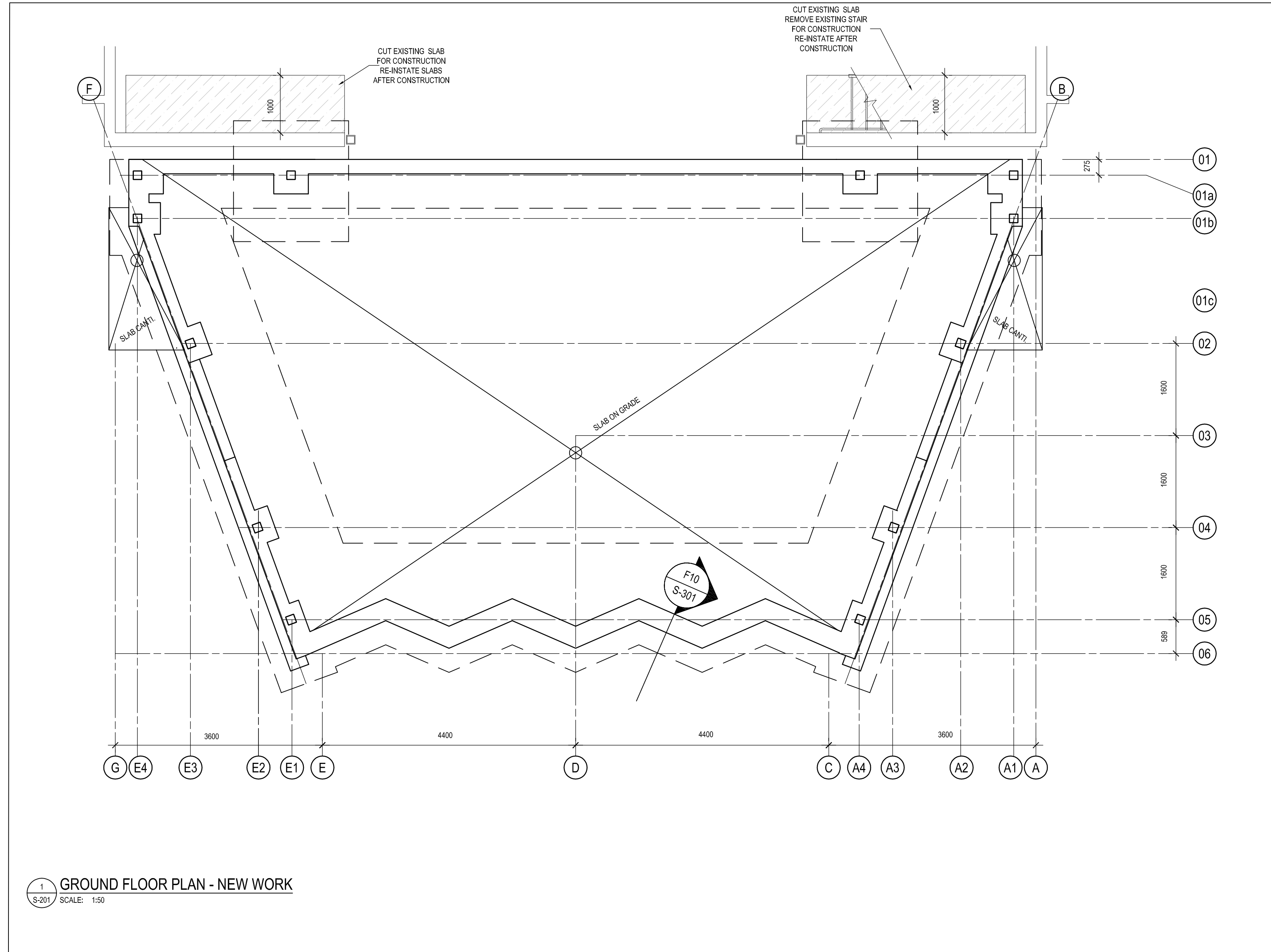
2 EXISTING GROUND FLOOR PLAN - NEW WORK
SCALE: 1:20

DEMOLITION/DECONSTRUCTION OF STRUCTURES

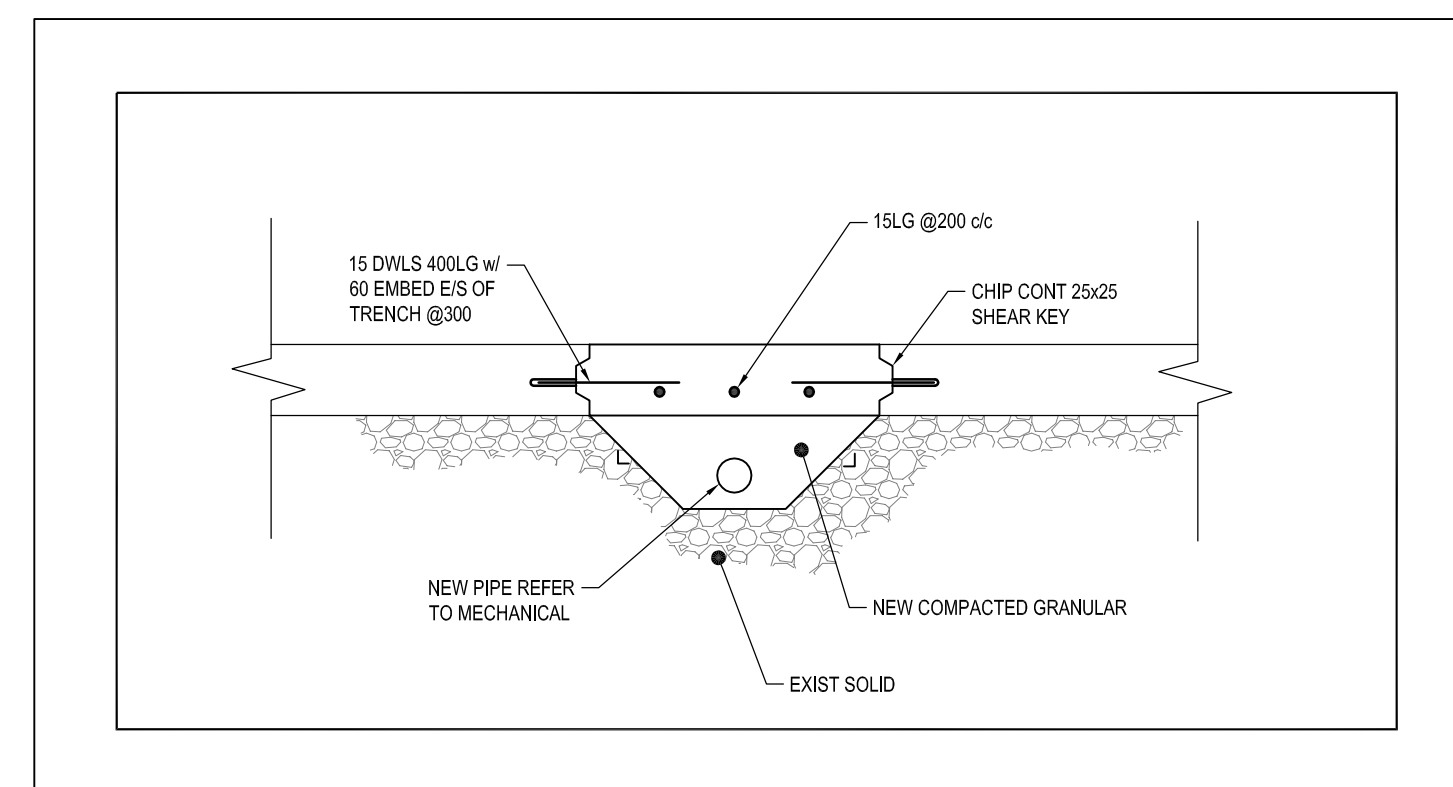
1. PRIOR TO START OF DEMOLITION/DECONSTRUCTION WORK SUBMIT:
 - a. DEMOLITION/DECONSTRUCTION PLAN IDENTIFYING MEANS AND METHODS OF DECONSTRUCTION WORK AND SPECIFICALLY ADDRESSING THE STRUCTURAL INTEGRITY AND STABILITY OF THE BUILDING COMPONENTS TO REMAIN. THIS PLAN MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN ONTARIO.
2. DEMOLITION/DECONSTRUCTION OF STRUCTURAL ELEMENTS TO BE UNDERTAKEN BY A QUALIFIED CONTRACTOR IN ACCORDANCE WITH ALL PREVAILING LEGISLATION, CODES AND STANDARDS.
3. IF MATERIALS RESEMBLING HAZARDOUS SUBSTANCES ARE ENCOUNTERED, STOP WORK, TAKE PREVENTATIVE MEASURES AND NOTIFY THE CONSULTANT. DO NOT PROCEED UNTIL WRITTEN INSTRUCTIONS HAVE BEEN RECEIVED.
4. PROVIDE TEMPORARY WORKS REQUIRED IN ORDER TO MAINTAIN THE STABILITY OF THE BUILDING ELEMENTS AND STRUCTURES DESIGNATED TO REMAIN.
5. PREVENT DEBRIS AND MATTER FROM BLOCKING MEANS OF EGRESS.
6. STOCKPILING OF THE MATERIAL ON SITE IS NOT PERMITTED.
7. DISPOSE OF MATERIAL IN ACCORDANCE WITH PREVAILING CODES AT LICENSED FACILITIES.
8. DEMOLITION MAY UTILIZE ANY LEGAL MEANS OR METHODS PERMITTED INCLUDING HYDRAULIC OR MECHANICAL TECHNIQUES, HOWEVER IMPLICATION USING EXPLOSIVES IS NOT PERMITTED.
9. UPON COMPLETION OF THE PROJECT LEAVE THE WORK SITE CLEAN AND FREE OF DEBRIS.
10. MAKE GOOD ALL EXISTING WORK DISTURBED BY DEMOLITION OR DECONSTRUCTION PROCEDURES

CUTTING AND CORING

1. CONTRACTOR SHALL CARRY THE PRICE TO RETAIN AN INDEPENDENT TESTING COMPANY TO LOCATE EXISTING REINFORCEMENT AND CONDUIT IN THE AREAS OF PROPOSED OPENINGS AND TO MARK LOCATIONS ON THE SURFACES OF SLABS AND WALLS ON WHICH THE CORES AND CUTS ARE TO BE STARTED.
2. USE GROUND PENETRATING RADAR OR EQUIVALENT INDUSTRY ACCEPTED METHOD CAPABLE OF ACCURATELY LOCATING EMBEDDED ELEMENTS WITHIN 50 mm FROM CENTRE LINE OF ELEMENT.
3. **CORING:** DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT WHEN CORING UNLESS APPROVED BY CONSULTANT.
4. **CUTTING:** DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT WHEN CUTTING UNLESS APPROVED BY THE CONSULTANT. DO NOT OVERCUT OPENINGS, CORE CORNERS AND ENDS OF INTERMEDIATE SAWCUT LINES OF ALL OPENINGS PRIOR TO CUTTING. SAWCUT SIDES AND INTERMEDIATE LINES, CHIP CORNERS SQUARE IF NECESSARY. IF NEW REINFORCEMENT IS REQUIRED AT AN OPENING, INSTALL REINFORCEMENT BEFORE CUTTING OPENING OR SHORE STRUCTURE UNTIL NEW REINFORCEMENT IS INSTALLED.



1 GROUND FLOOR PLAN - NEW WORK
SCALE: 1:50



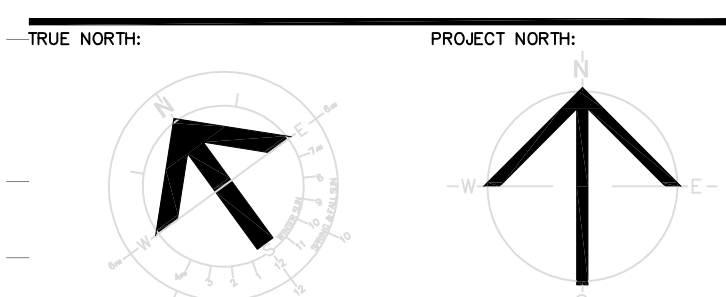
1 NEW SLAB @ DRAIN PIPE
(REFER TO MECH. FOR LOCATIONS)
SCALE: 1:20

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RECORD OF REVISIONS:	
ISSUED TENDER	05/30/2018
ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
ISSUED FOR 90% REVIEW	04/20/2018
ISSUED FOR REVIEW	03/29/2018
NUMBER REVISION:	DATE: (MM/DD/YY)
PROFESSIONAL STAMP:	PROFESSIONAL STAMP:



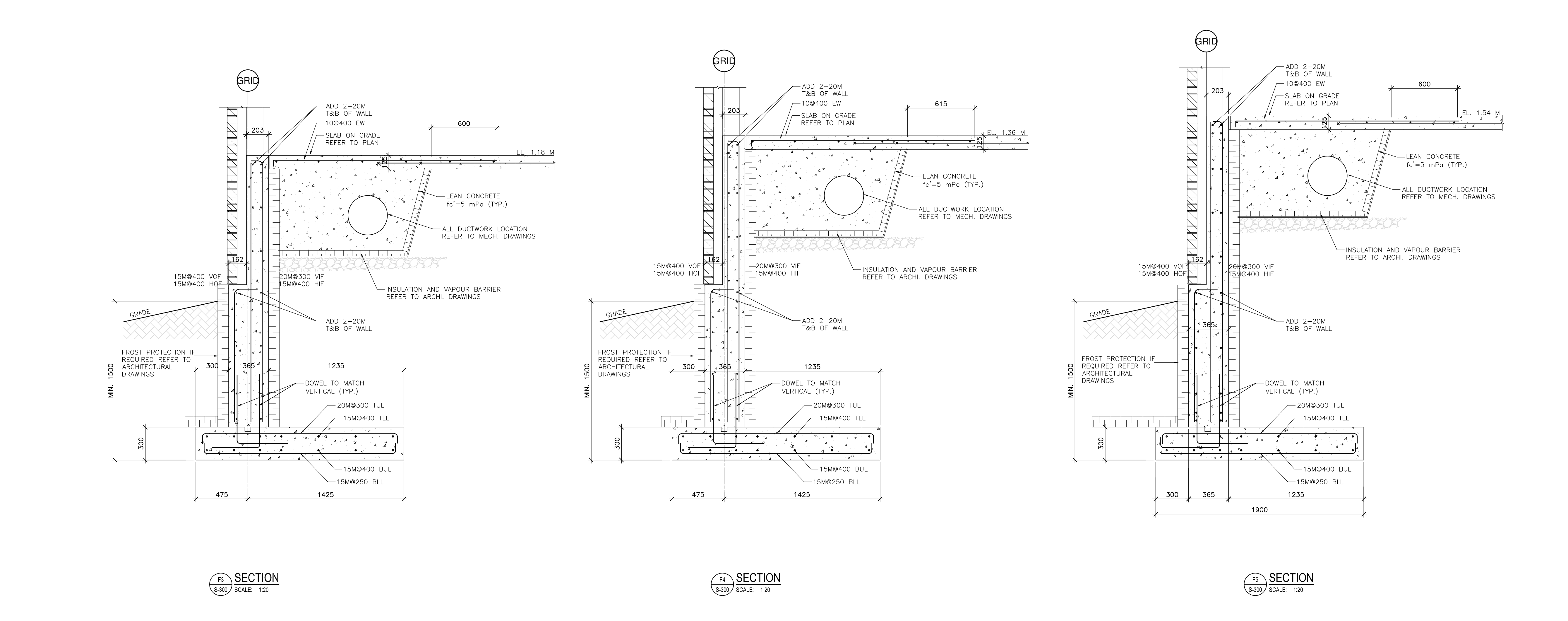
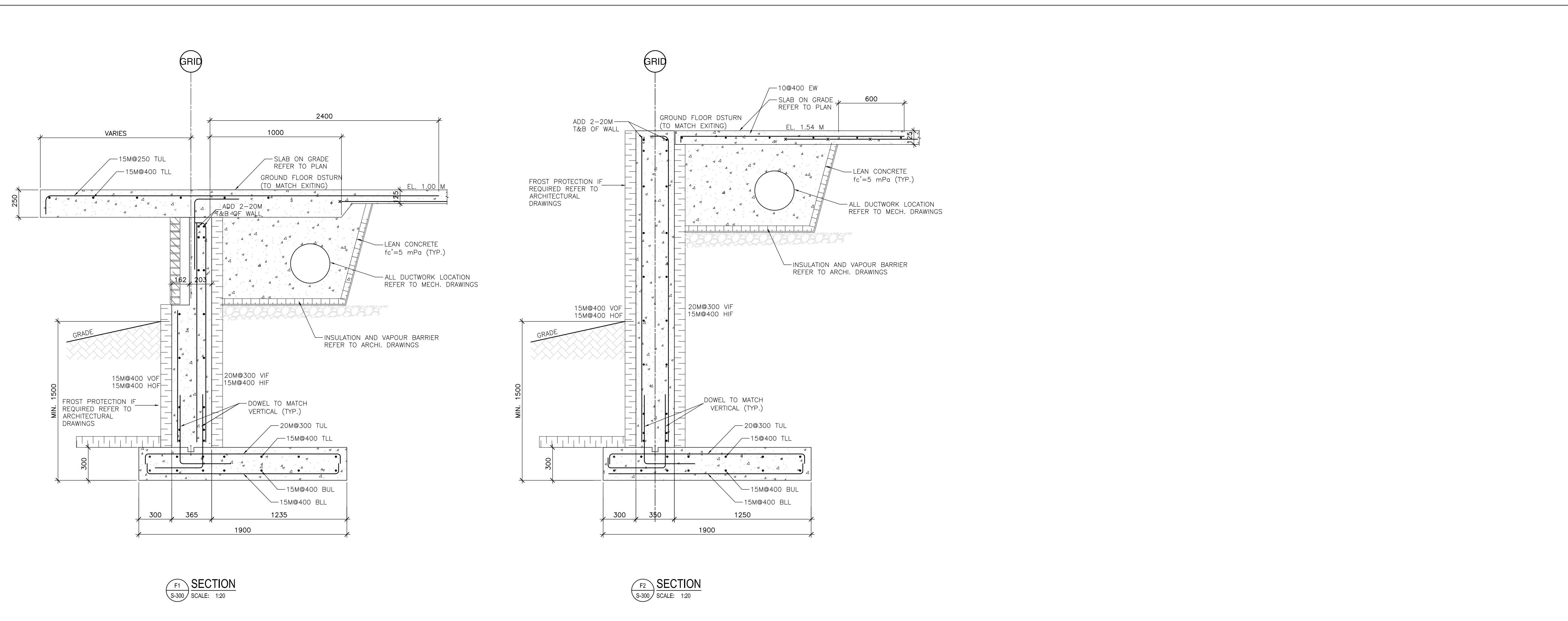
STRUCTURAL, MECHANICAL & ELECTRICAL:



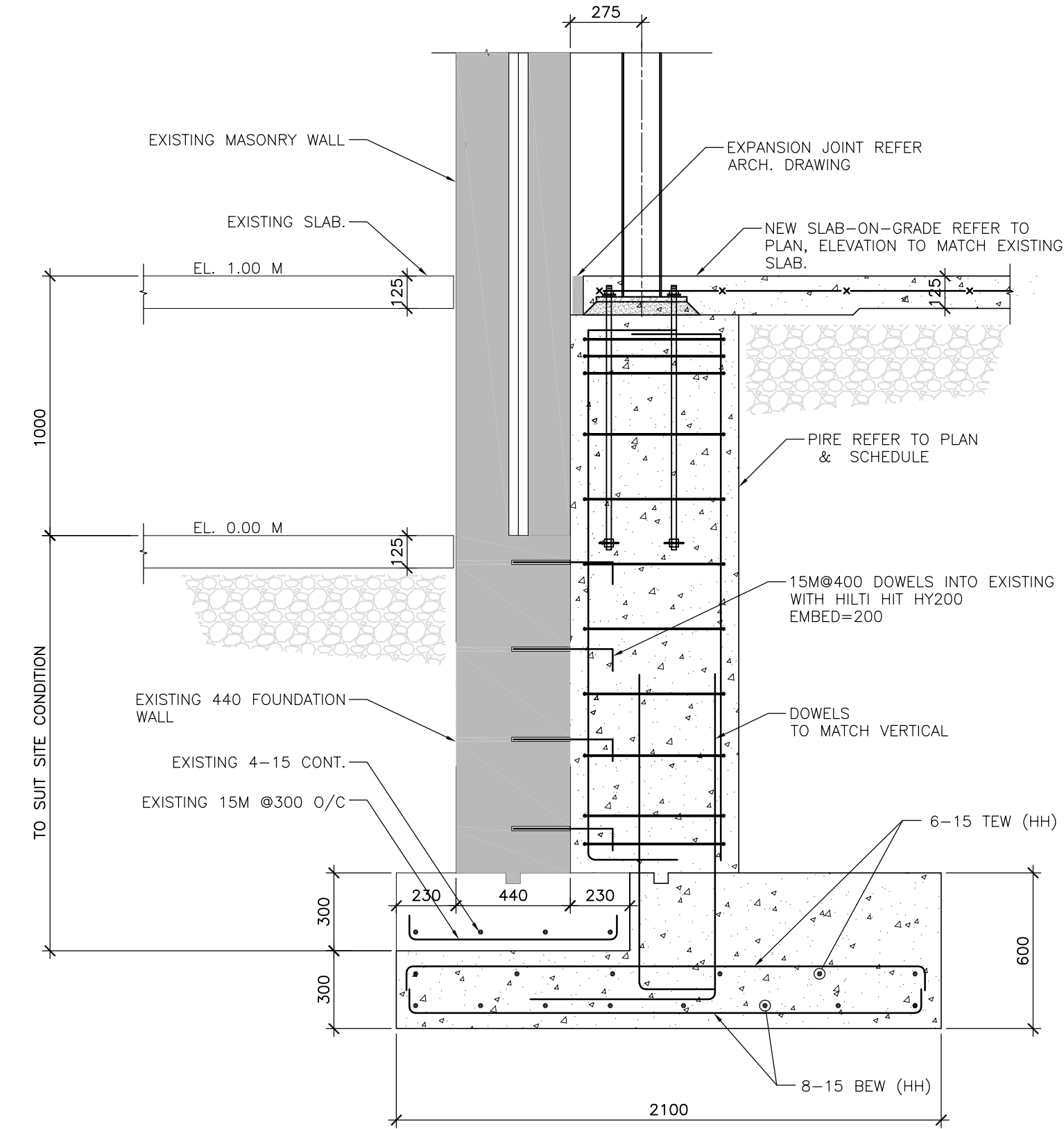
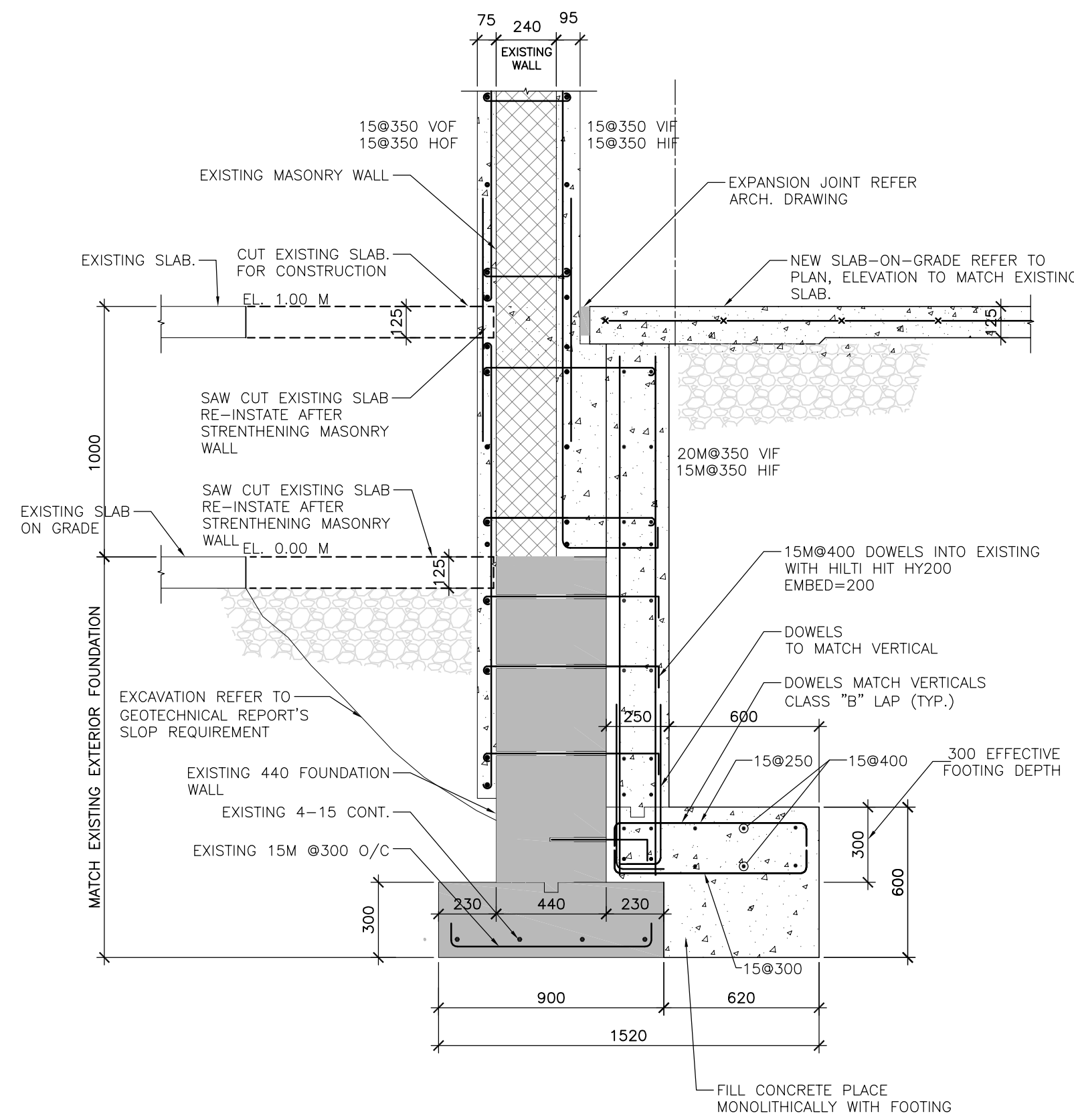
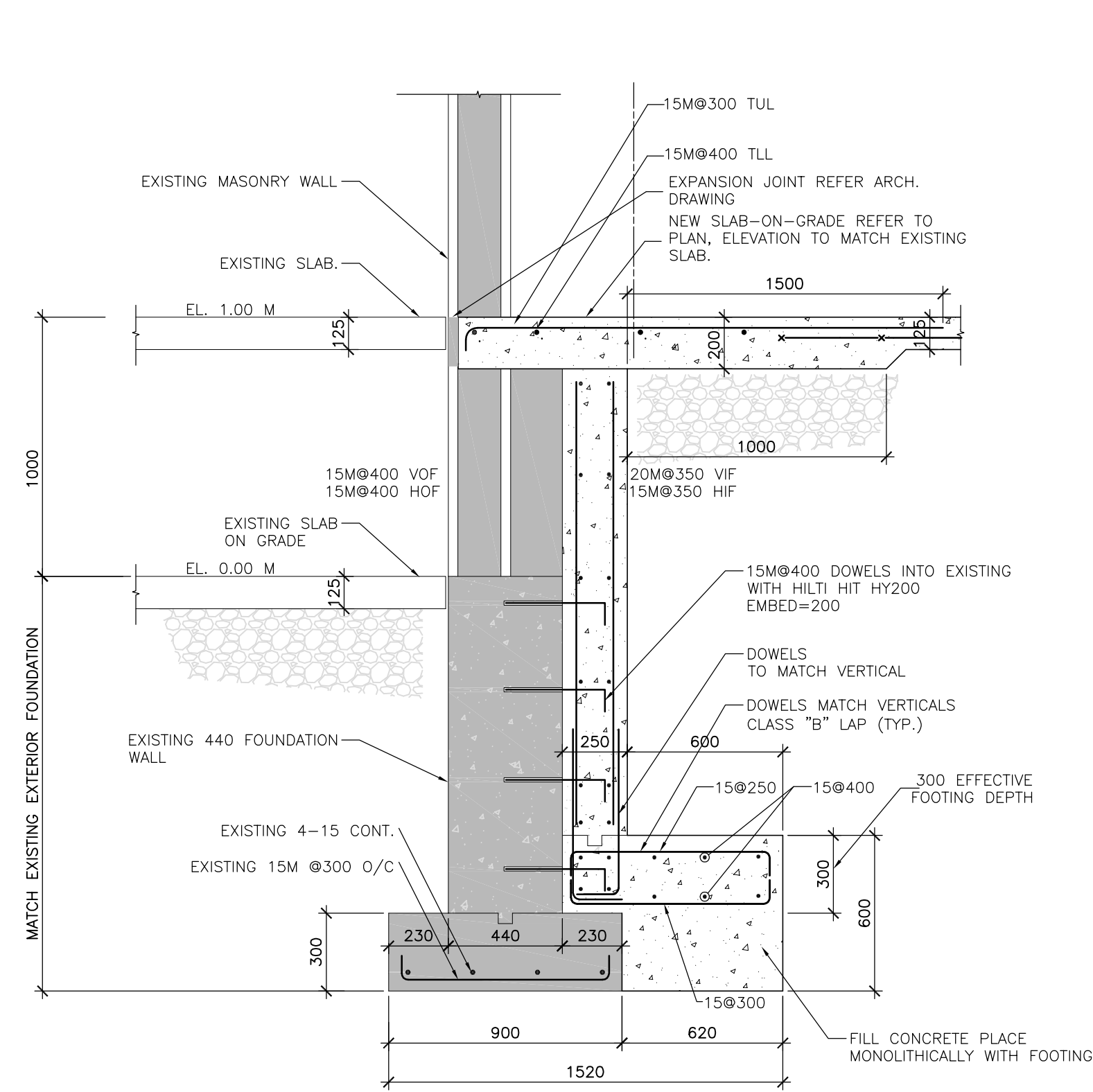
PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
 MUSIC ROOM**
 6025 PROMENAGE LONGLEAF
 ORLÉANS, ON
 DRAWING TITLE:

FOUNDATION SECTIONS

DRAWN BY:	YH	DRAWING NUMBER:
DATE:	2018-05-01	
REVIEWED BY:	B.J.	
APPROVED BY:	B.J.	
PRINT DATE:	5/1/2018	REVISION NUMBER:
ISSUED FOR:	TENDER	
DATE:	2018-05-01	
CLIENT PROJECT #:		PROJECT #
		1553



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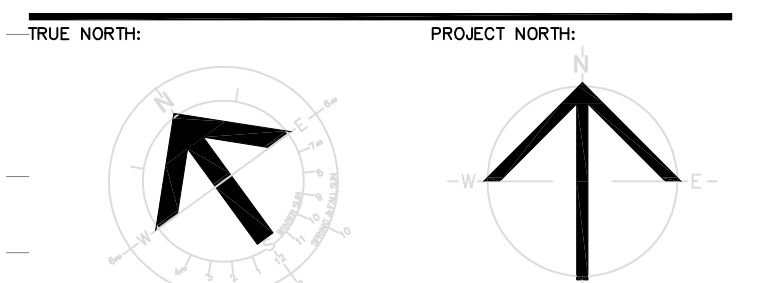
RECORD OF REVISIONS:

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ISSUED FOR REVIEW	03/29/2018

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STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
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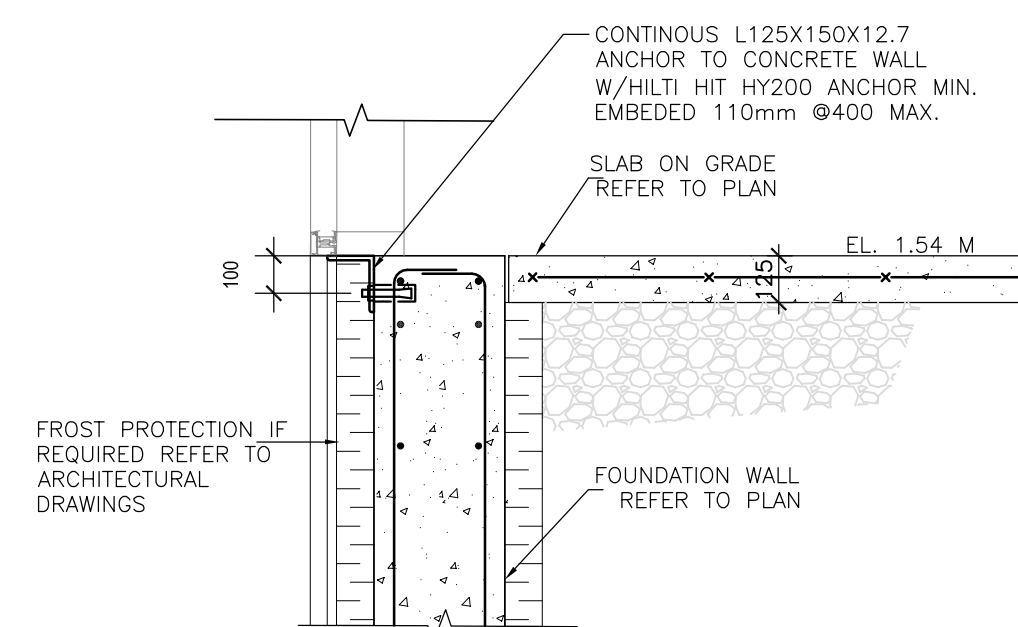
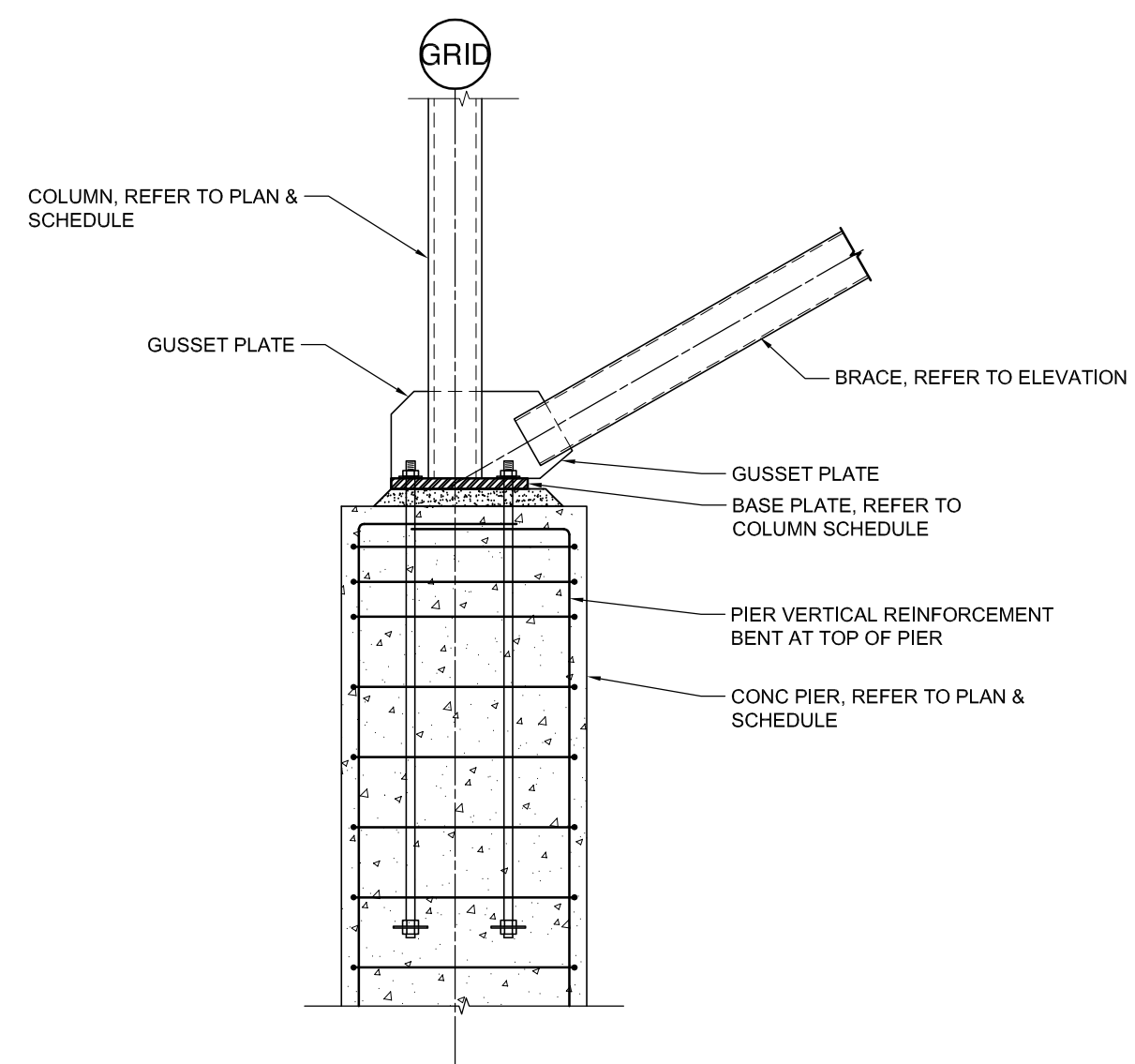
6025 PROMENAGE LONGLEAF
 ORLÉANS, ON

DRAWING TITLE:

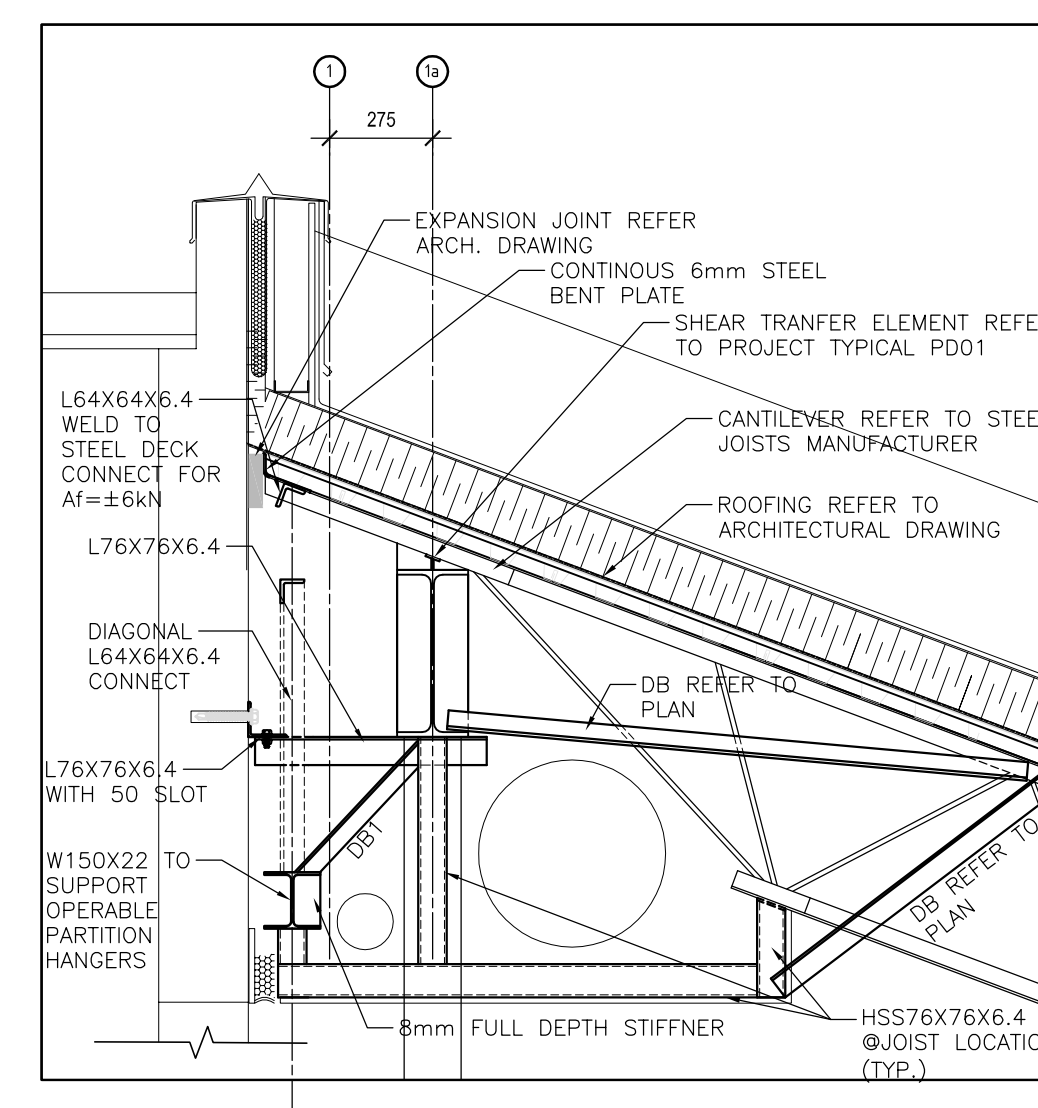
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APPROVED BY:	B.J.	
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CLIENT PROJECT #:		PROJECT #
		1553

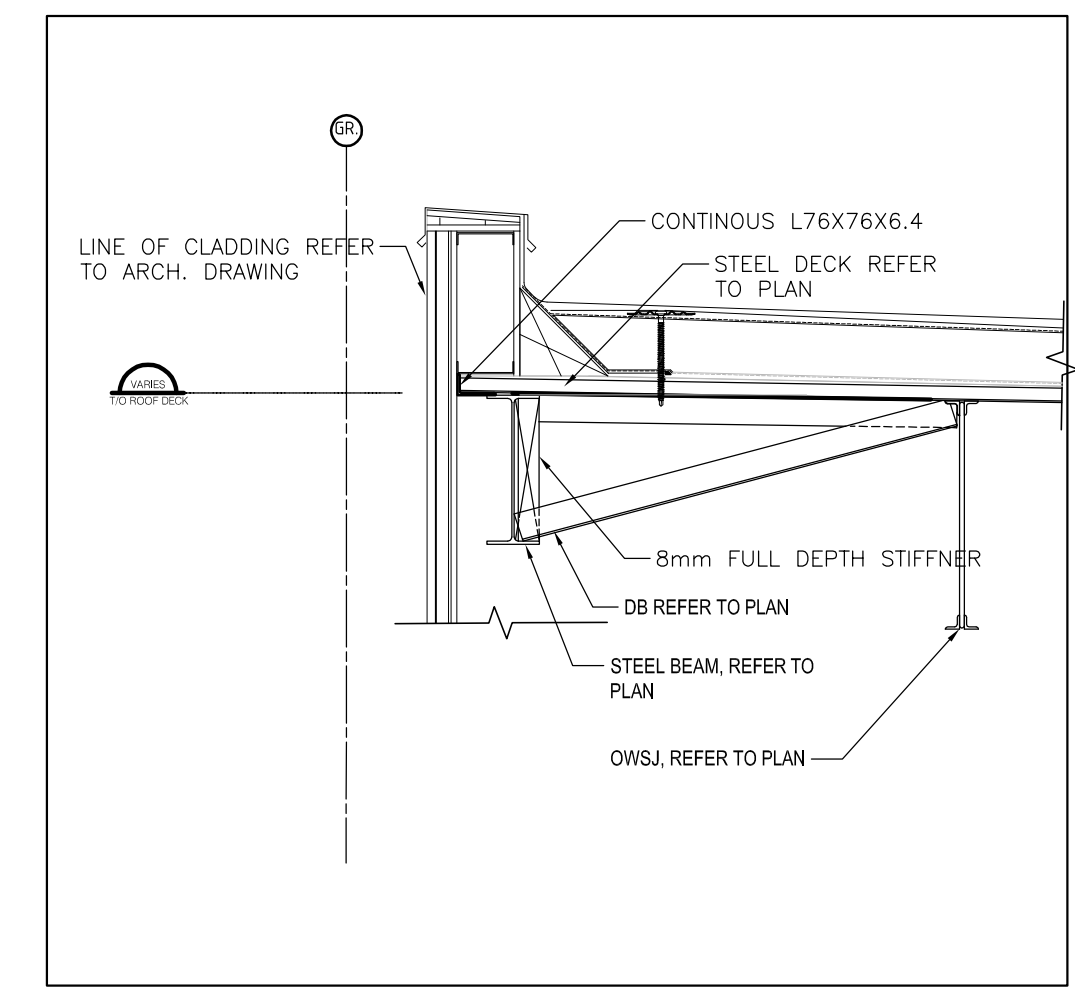
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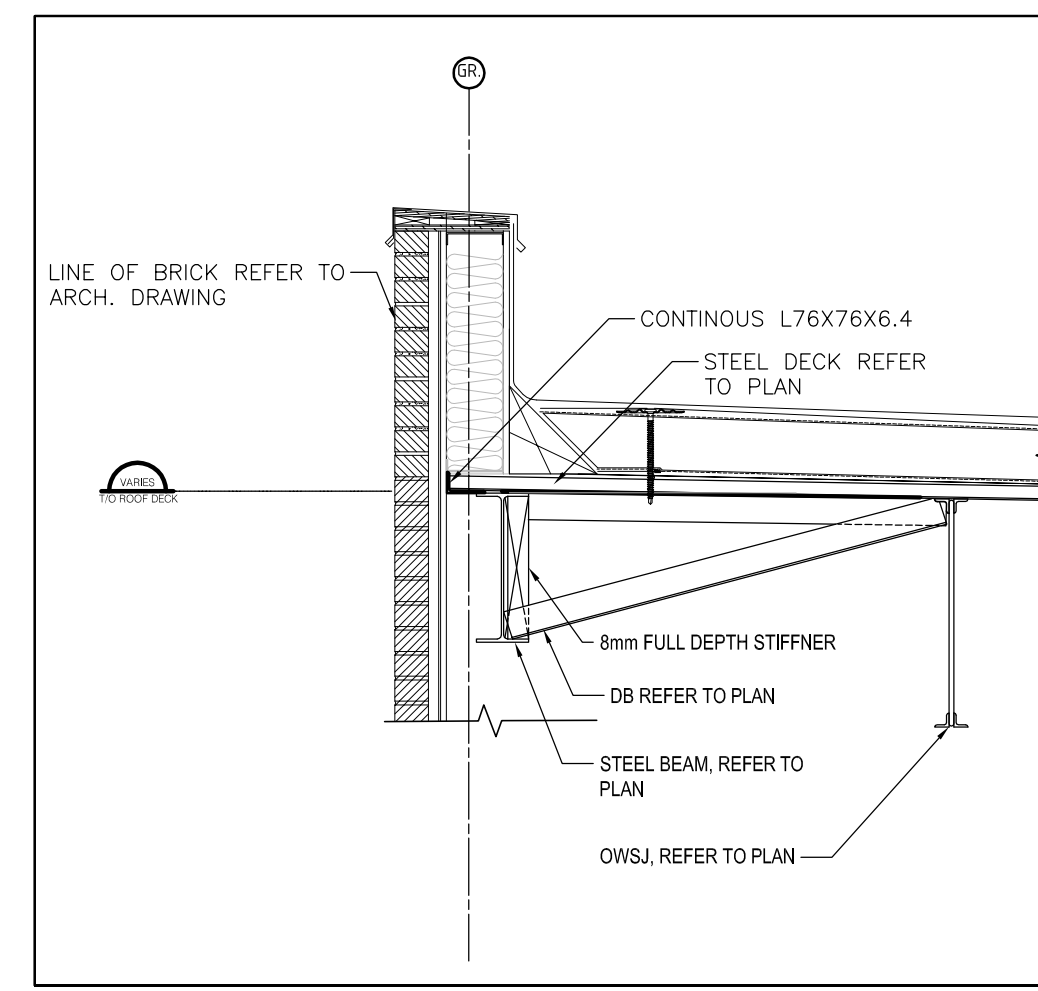
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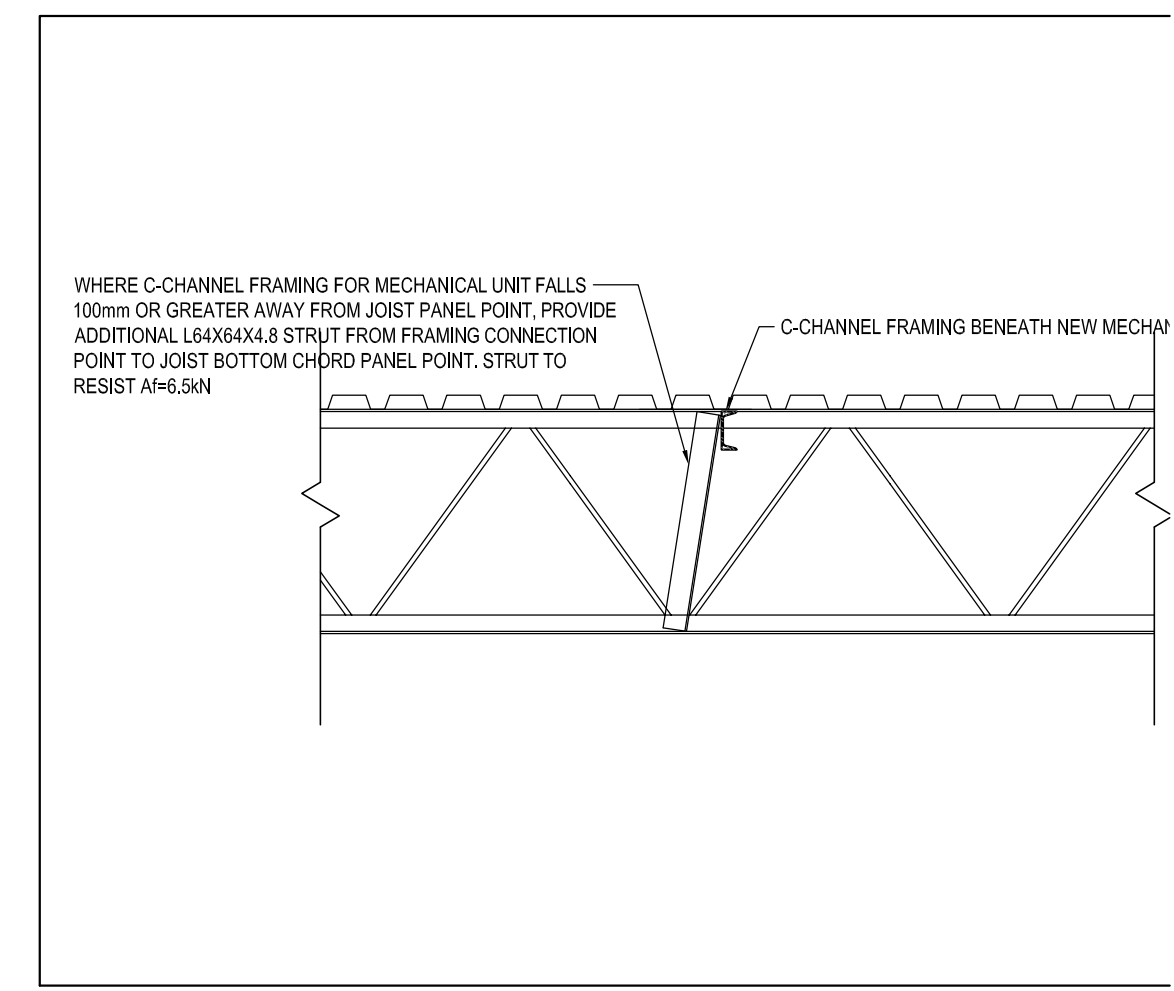
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S-302 SCALE: 1:20



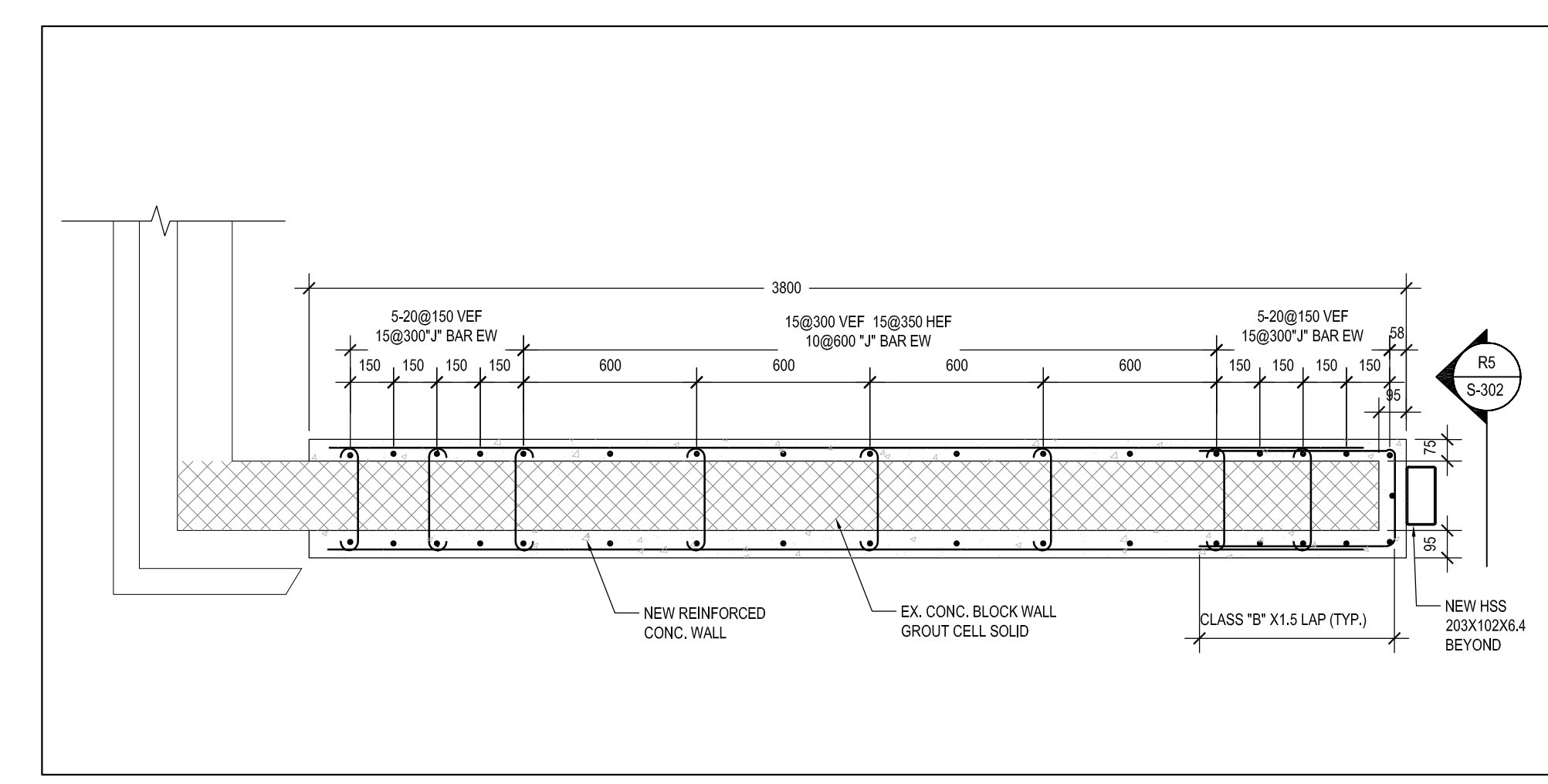
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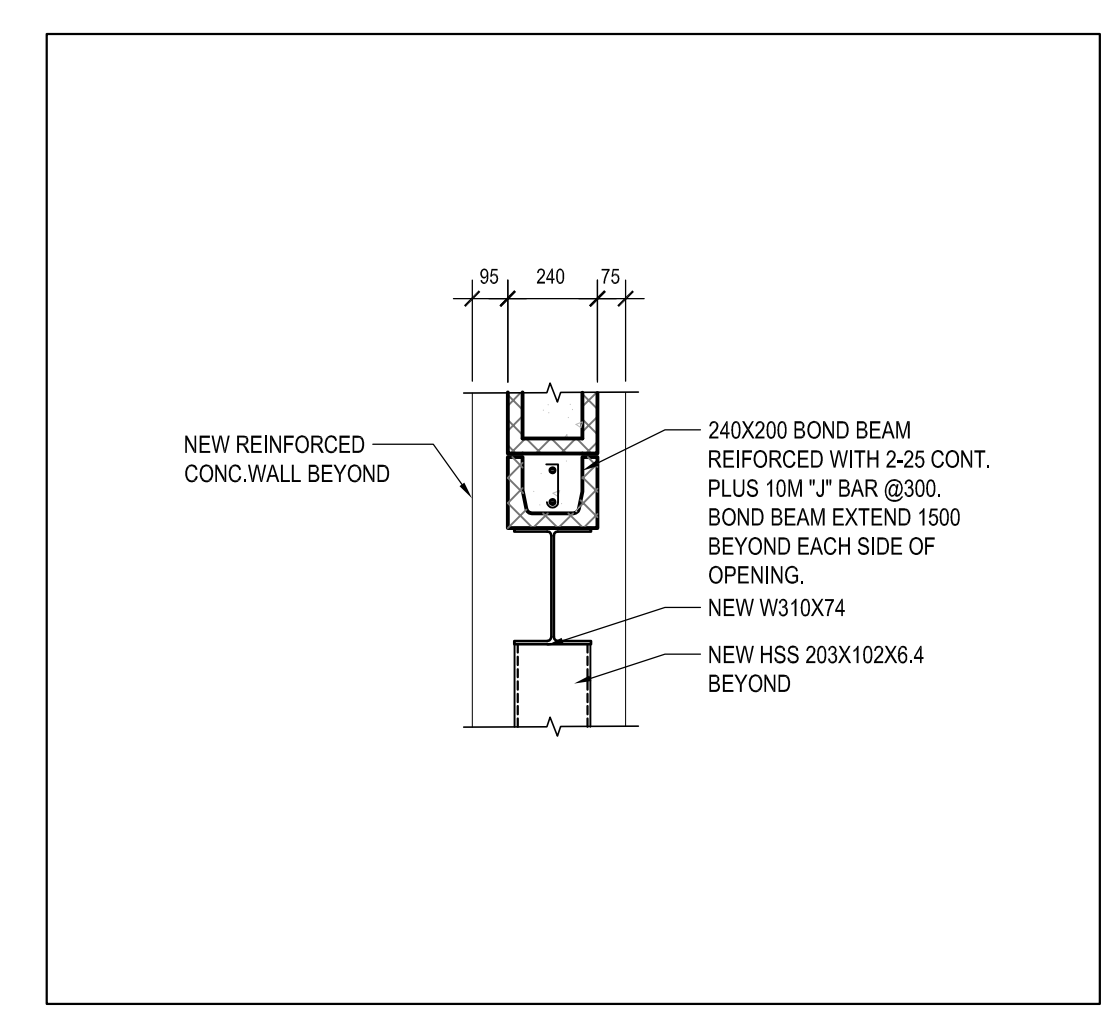
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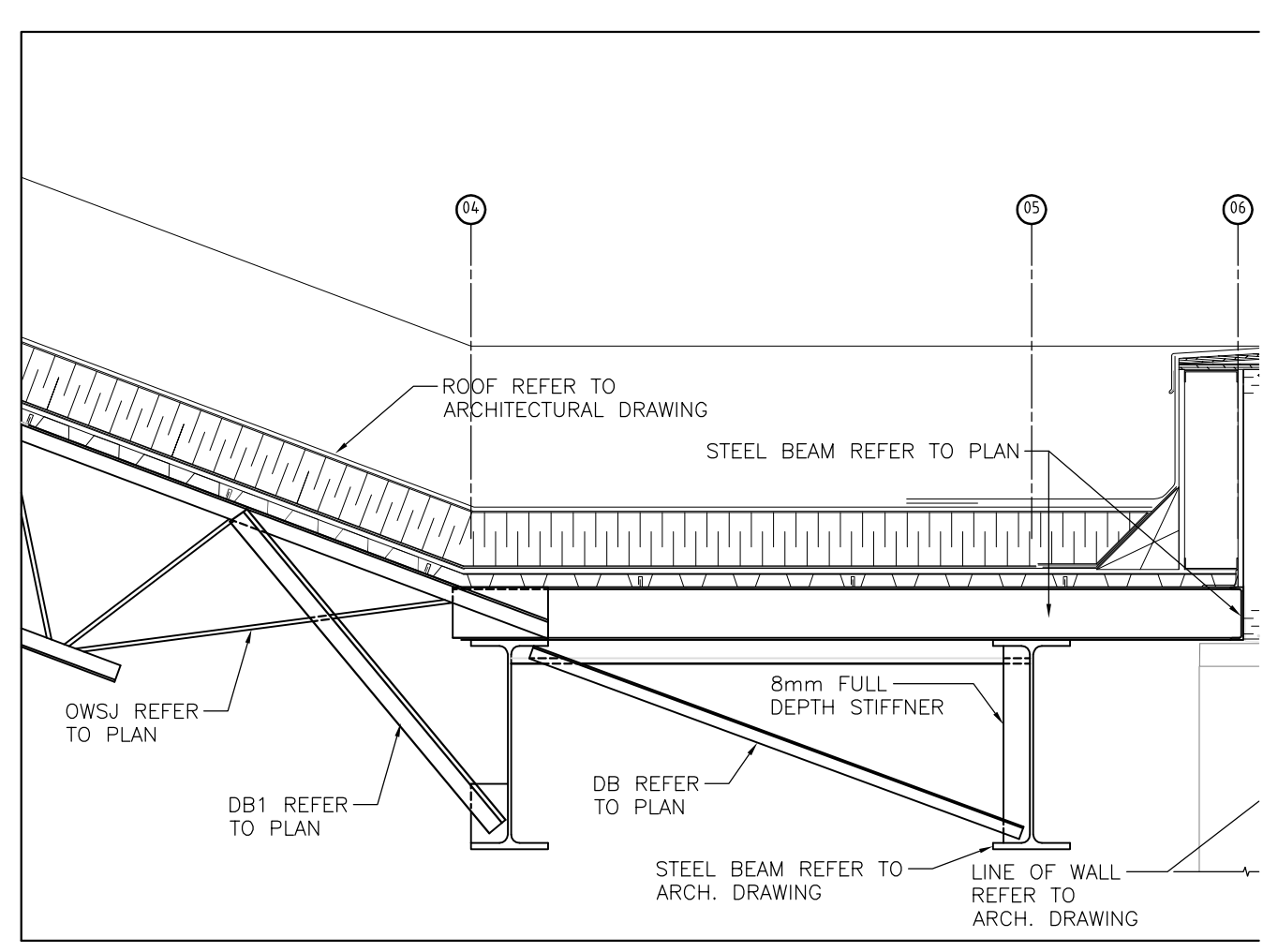
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S-302 SCALE: 1:20



D1 DETAIL
S-302 SCALE: 1:20



R5 SECTION
S-302 SCALE: 1:20



R6 SECTION
S-302 SCALE: 1:20

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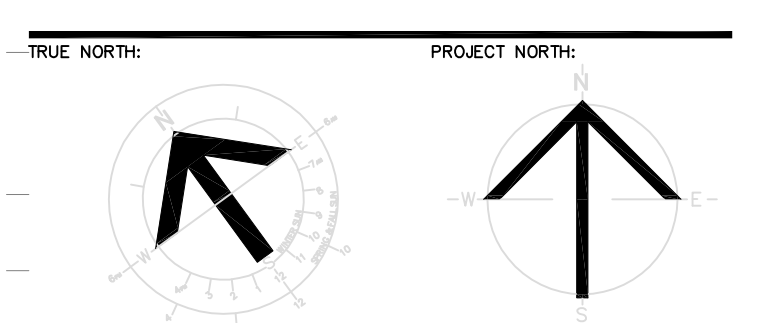
RECORD OF REVISIONS:

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ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
ISSUED FOR 90% REVIEW	04/20/2018
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NUMBER REVISION: _____ DATE: (MM/DD/YY)
PROFESSIONAL STAMP: _____ PROFESSIONAL STAMP: _____



STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**

6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

SECTIONS

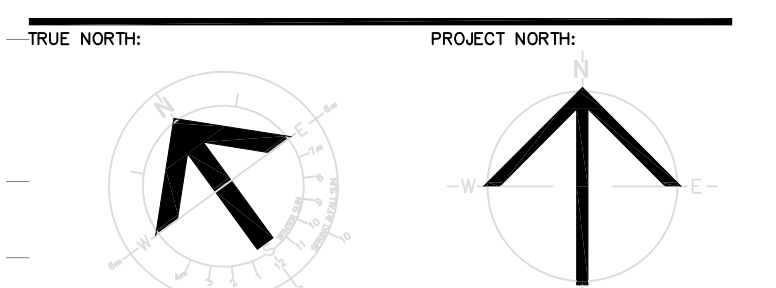
DRAWN BY:	YH	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	B.J.		
APPROVED BY:	B.J.		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-01		
CLIENT PROJECT #:		PROJECT #:	1553

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STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM

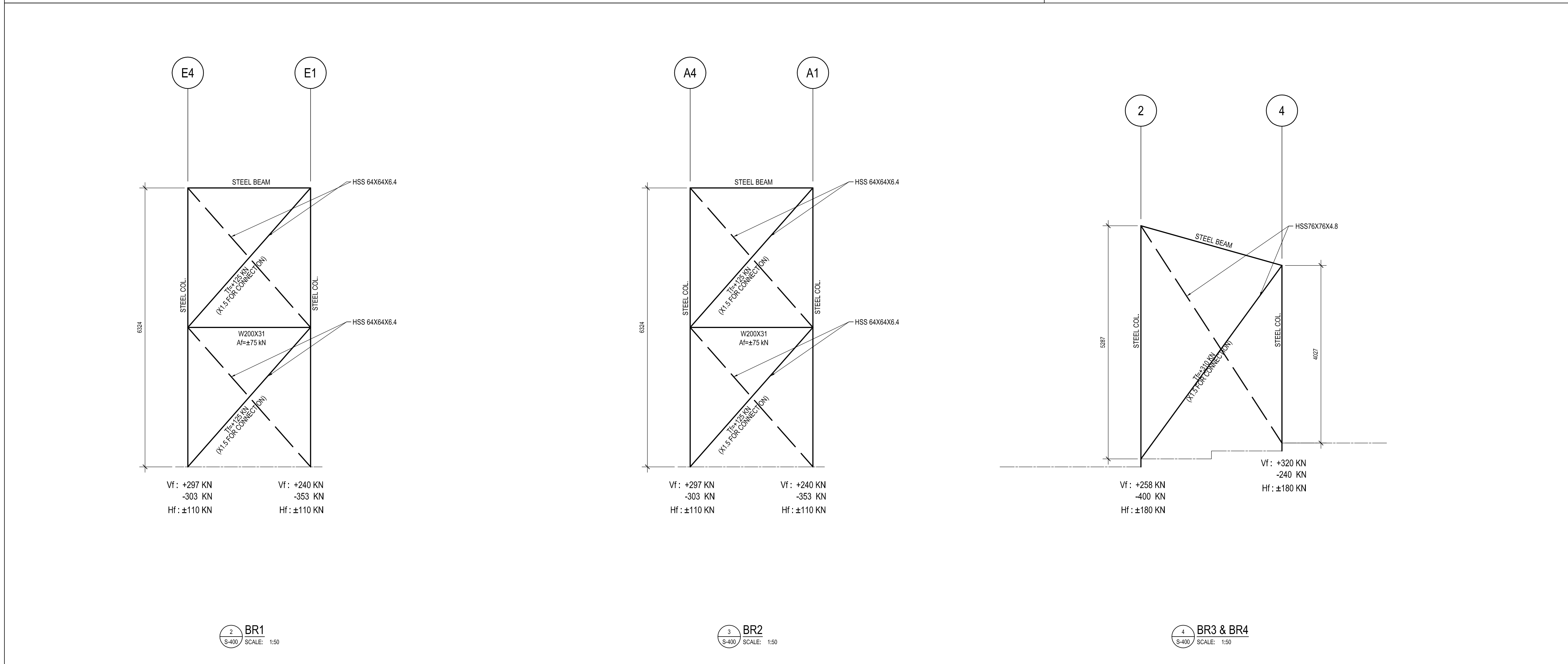
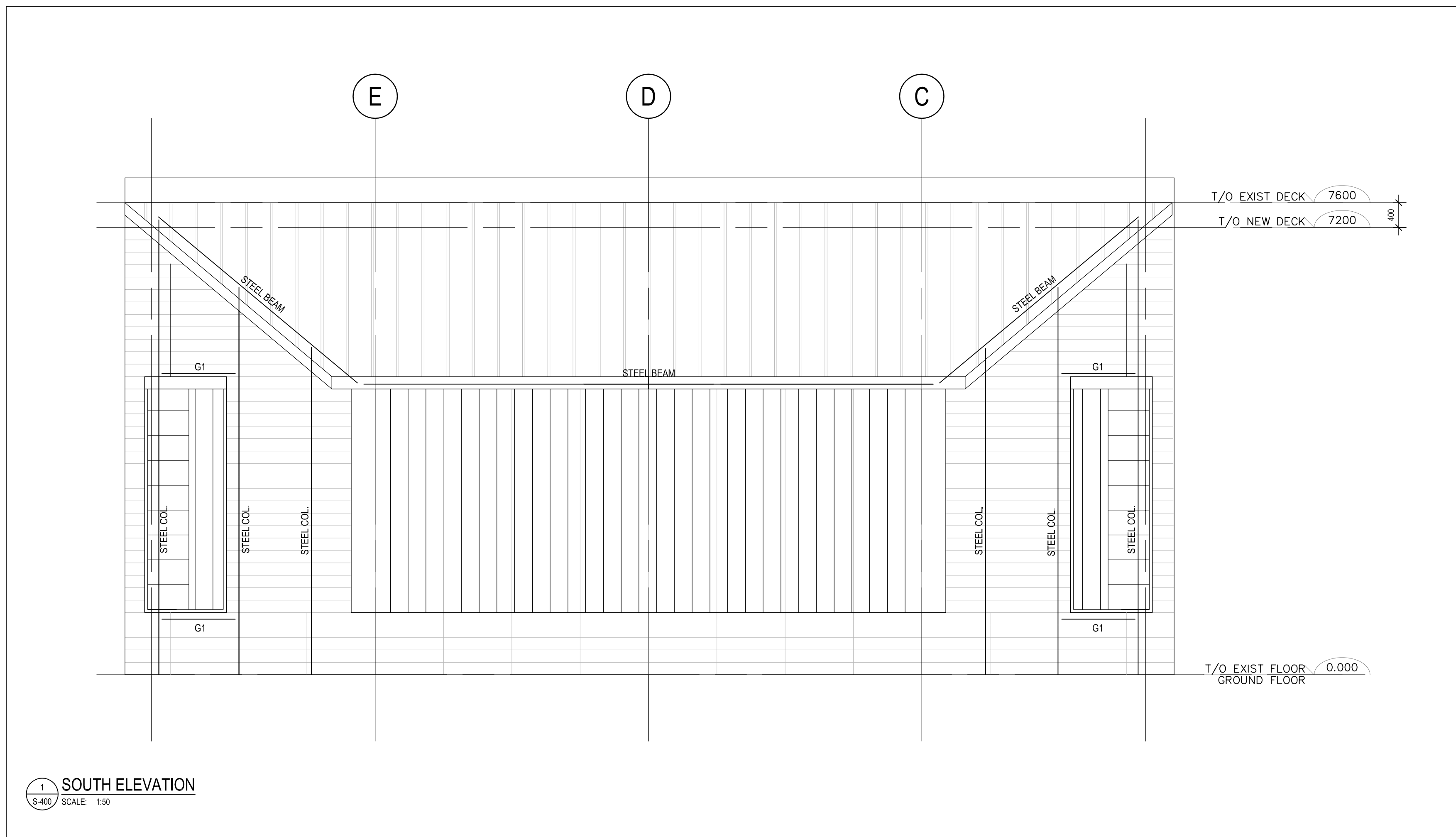
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

ELEVATIONS

DRAWN BY:	YH	DRAWING NUMBER:
DATE:	2018-05-01	
REVIEWED BY:	B.J.	
APPROVED BY:	B.J.	
PRINT DATE:	5/1/2018	REVISION NUMBER:
ISSUED FOR:	TENDER	
DATE:	2018-05-01	
CLIENT PROJECT #:		PROJECT #
		1553

S-400



KEY PLAN:

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RECORD OF REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED TENDER	04/10/2018
2	ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
3	ISSUED FOR 90% REVIEW	04/20/2018
4	ISSUED FOR BALANCE REVIEW	03/29/2018

NUMBER: REVISION: (MM/DD/YY)

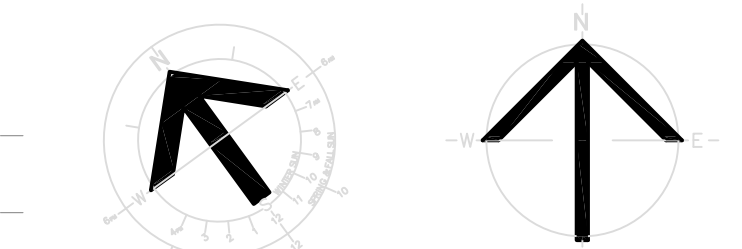
PROFESSIONAL STAMP: PROFESSIONAL DATE:



STRUCTURAL, MECHANICAL & ELECTRICAL:

TRUE NORTH:

PROJECT NORTH:



PROJECT TITLE:

ÉCOLE LE PRÉLUDE
MUSIC ROOM6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

LEGENDS, SPECIFICATIONS AND
DRAWING LIST

DRAWN BY:	T. ARMSTRONG	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	M.S.M.		
APPROVED BY:	M.S.M.		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
DATE:	2018-05-01	TENDER	
CLIENT PROJECT #		CIVPROJECT #	1553

M-100

LEGEND - GENERAL	
SYMBOL	DESCRIPTION
	ITEM TO BE DEMOLISHED
	EXISTING ITEM TO REMAIN
	NEW ITEM TO BE PROVIDED
(X)	DENOTES EXISTING ITEM TO BE REMOVED
(E)	DENOTES EXISTING ITEM TO REMAIN
(R)	DENOTES EXISTING ITEM TO BE RELOCATED
	SECTION A ON DRAWING M1
	SECTION B ON DRAWING M1

LEGEND - CONTROLS	
SYMBOL	DESCRIPTION
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	CONTROL WIRING

LEGEND - PIPING SPECIALTIES	
SYMBOL	DESCRIPTION
	PIPE DROPS DOWN
	PIPE RISES UP
	BRANCH OFF BOTTOM OF PIPE
	BRANCH OFF TOP OF PIPE
	CONTINUOUS PIPE
	PIPING PITCH (DN, OR UP, INDICATE)

LEGEND - PLUMBING	
SYMBOL	DESCRIPTION
	STORM DRAIN ABOVE GROUND
	STORM DRAIN BELOW GROUND
	CONDENSATE DRAIN
	DRAIN PIPE WITH CLEANOUT
	NATURAL GAS
	ROOF DRAIN

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	AIR - CONDITIONING UNIT
CD	CONDENSATE DRAIN
CTE	CUT TO EXISTING
EA	EXHAUST AIR
FE	PORTABLE FIRE EXTINGUISHER
LBG	LINEAR BAR GRILLE
LSO	LINEAR SLOT DIFFUSER
OA	OUTDOOR AIR
RA	RETURN AIR
RD	ROOF DRAIN
RG	RETURN GRILLE
SL	DUCT SILENCER

LEGEND - AIR DISTRIBUTION	
SYMBOL	DESCRIPTION
	DUCT SIZE, WHERE FIRST DIMENSION IS VISIBLE
	SUPPLY AIR RECTANGULAR DUCT DOWN
	SUPPLY AIR RECTANGULAR DUCT UP
	TURNING VANES
	CHANGE OF ELEVATION (RISE (R) AND DROP (D))
	THERMALLY INSULATED DUCT
	ACOUSTICALLY LINED DUCT
	ROUND RECTANGULAR TRANSITION
	FLEXIBLE DUCT
	BALANCING DAMPER
	LINEAR SLOT DIFFUSER
	LINEAR BAR GRILLE
	RETURN GRILLE
	DIFFUSER/GRILLE IDENTIFICATION TAG TAG TYPE OF DIFFUSER/GRILLE #C: NUMBER OF DIFFUSER/GRILLE HAVING THE SAME SPECIFICATIONS DIM: NECK SIZE IN mm
	LINEAR SLOT DIFFUSER CW FLENUM IDENTIFICATION TAG TAG TYPE OF DIFFUSER/GRILLE #C: NUMBER OF LINEAR BAR GRILLES HAVING THE SAME SPECIFICATIONS DIM: LENGTH IN mm #L: NET SIZE IN mm #F: FLOW RATE IN L/S
	LINEAR BAR GRILLE IDENTIFICATION TAG TAG TYPE OF LINEAR BAR GRILLE #C: NUMBER OF LINEAR BAR GRILLES HAVING THE SAME SPECIFICATIONS DIM: WIDTH IN mm #L: LENGTH IN mm #F: FLOW RATE IN L/S

DRAWING LIST	
DWG NO.	DESCRIPTION
M-100	LEGENDS, SPECIFICATIONS, AND DRAWING LIST
M-200	PARTIAL GROUND FLOOR PLAN - FIRE PROTECTION LAYOUT - NEW WORK
M-300	PARTIAL GROUND FLOOR PLAN - PLUMBING LAYOUT - NEW WORK
M-400	PARTIAL GROUND FLOOR PLAN - HVAC LAYOUT - NEW WORK AND DETAILS
M-401	EQUIPMENT SCHEDULE AND PARTIAL ROOF PLAN - HVAC LAYOUT - NEW WORK
M-600	PARTIAL GROUND FLOOR PLAN - CONTROLS LAYOUT - NEW WORK

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO APPLICABLE CODES SUCH AS:
 - LATEST EDITION OF THE ONTARIO BUILDING CODE (OBC)
 - NFPA (FIRE PROTECTION)
 - SMACNA DUCTWORK
 - ULC & CASCAN INSTRUCTIONS & REQUIREMENTS
 - INSTRUCTIONS TO BIDDERS
- CONTRACTORS MUST COMPLY WITH LOCAL BY-LAWS, CANADIAN CONSTRUCTION SAFETY CODE, AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF A CONFLICT OR DISCREPANCY, THE STRONGER REQUIREMENTS SHALL APPLY.
- CONTRACTORS SHALL BE RESPONSIBLE FOR ALL APPLICABLE FEES, PERMITS, INSPECTIONS BY AUTHORITIES HAVING JURISDICTION AND TAXES RELATING TO THE MECHANICAL SCOPE OF WORK.
- TENDER PRICES TO BE BASED ON EQUIPMENT AS SPECIFIED. ANY REQUESTS FOR ALTERNATE EQUIPMENT MUST BE MADE AT LEAST 14 BUSINESS DAYS PRIOR TO TENDER CLOSE. ACCEPTANCE OF ALTERNATE EQUIPMENT WILL BE MADE BY WRITTEN AGREEMENT FROM THE SCHOOL BOARD REPRESENTATIVE. THE RIGHT TO REJECT ANY SHOP DRAWINGS FOR EQUIPMENT NOT APPROVED DURING TENDER PROCESS. ACCEPTANCE OF ALTERNATIVES DOES NOT ABSOLVE THE CONTRACTOR FROM MAKING ALL NECESSARY ADJUSTMENTS TO THE WORK OF OTHER TRADES INCURRED BY SELECTION OF ALTERNATE EQUIPMENT OR MATERIALS. SUCH ADJUSTMENTS ARE TO BE MADE AT NO ADDITIONAL COST.
- CONTRACTORS SHALL PROVIDE ONE(1) COPY OF CLEARLY IDENTIFIED, PROJECT SPECIFIC, SHOP DRAWINGS IN PDF FORMAT FOR ALL FIXTURES, EQUIPMENT, AND SYSTEMS FOR REVIEW BEFORE ORDERING. EQUIPMENT, DEVICES, AND FIXTURES SHALL BE SUPPLIED WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE WORKING INSTALLATION. CONTRACTORS SHALL REVIEW SHOP DRAWINGS PRIOR TO SUBMISSION. THIS INDICATOR THEY HAVE DETERMINED AND VERIFIED THAT ALL MATERIALS, CATALOG NUMBERS, ETC., PERFORMANCE, SIZES, AVAILABLE SPACE, AND FIELD CONDITIONS MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOP DRAWINGS MUST CLEARLY INDICATE ANY DEVIATION FROM DESIGNER'S SPECIFICATIONS. ALL MATERIALS USED MUST BE NEW, CLEAN, AND FREE FROM DEFECTS.
- SUBMIT ONE (1) SET OF DRAWING PRINTS SHOWING ACCURATE AS-BUILT CONDITION OF THE MECHANICAL INSTALLATIONS INCLUDED WITH THE SUBMISSION OF THE OPERATION AND MAINTENANCE MANUAL. A SCHOOL BOARD REPRESENTATIVE REVIEW AND MAKE CORRECTIONS AS DIRECTED. CONTRACTORS SHALL MARK ALL CHANGES TO WORK PERFORMED AND AS CHANGES OCCUR ON AN AS-BUILT SET OF CONTRACT DOCUMENTS. DRAWING SET SHALL BE AVAILABLE FOR REFERENCE PURPOSES AND INSPECTION AT ALL TIMES. EACH DRAWING SHALL BE IDENTIFIED IN TITLE BLOCK ON RIGHT HAND SIDE "AS-BUILT DRAWINGS" AND SHOULD INCLUDE SIGNATURE OF CONTRACTOR, CONTRACTOR'S COMPANY NAME AND DATE.
- SUBMIT A DRAFT ELECTRONIC FORMAT (PDF) COPY OF OPERATION AND MAINTENANCE MANUAL TO SCHOOL BOARD REPRESENTATIVE FOR REVIEW. FAILURE TO SUBMIT MANUALS SPECIFIED, WILL INCUR ADDITIONAL 10% HOLDBACK AGAINST PROGRESS PAYMENTS. SUBMIT TWO (2) HARD COPY WITHIN FOUR (4) WEEKS OF ACCEPTANCE OF DRAFT MANUALS TO SCHOOL BOARD REPRESENTATIVE. MAN. MANUAL SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - TITLE PAGE
 - LETTERS OF WARRANTIES FROM DATE OF SUBSTANTIAL COMPLETION
 - SHOP DRAWINGS CW STAMPED CONSULTANTS ACCEPTED/REVISED
 - OPERATION AND MAINTENANCE DATA SHALL, FOR ALL MECHANICAL SYSTEMS AND/OR DEVICES SUFFICIENTLY DETAILED WITH RESPECT TO DESIGN ELEMENTS, OPERATIONAL PROCEDURES, TECHNICAL DATA, CONSTRUCTION FEATURES, COMPONENT FUNCTIONS, AND MAINTENANCE REQUIREMENTS TO PERMIT EFFECTIVE START UP, OPERATION, MAINTENANCE, REPAIR, MODIFICATION, EXTENSION AND/OR ALTERATION OF THE SYSTEM.
 - ALL TESTING AND COMMISSIONING RESULTS AND START-UP FOR EQUIPMENT INSTALLED AND CERTIFICATE OF ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION.
 - CERTIFICATE OF ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION FOR SPECIAL INSTALLATION REQUIREMENT SUCH AS BUT NOT LIMITED TO, SEISMIC INSTALLATION OF EQUIPMENT AND SPRINKLER INSTALLATION TO BE AS PER NFPA 13.
 - APPROPRIATE DIAGRAM, OPERATING INSTRUCTIONS AND ALL OTHER REQUIRED INFORMATION REGARDING CONTROLS FOR PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS.
 - COLORLED HAND COPY OF AS-BUILT DRAWINGS (FOLLOWING SCHOOL BOARD REPRESENTATIVE REVIEW)
- CONTRACTORS SHALL WARRANT THEIR WORK, PARTS, AND LABOUR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE BY THE OWNER OR SUBSTANTIAL COMPLETION, WHICHEVER IS THE EARLIEST.
- DRAWINGS ONLY SHOW GENERAL INTENT AND SCOPE OF WORK; NOT EXACT DETAILS OF INSTALLATION. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEMS SHOWN. CONTRACTORS SHALL REVIEW ALL PERTINENT DRAWINGS AND ANY RELEVANT ON-SITE CONDITIONS TO VERIFY THAT WORK CAN BE CARRIED OUT AS SHOWN ON DRAWINGS. NO CLAIMS FOR DAMAGE TO MATERIALS WILL BE CONSIDERED FOR FAILURE TO DO SO. CONTRACTORS WILL ALSO MAKE ALLOWANCE IN TENDERS FOR SPACE LIMITATIONS, SECURITY ISSUES, AND THE SIMULTANEOUS WORKING OF DIFFERENT TRADES.
- LOCATING EQUIPMENT:
 - ARRANGE PIPES AND EQUIPMENT TO PERMIT READY ACCESS TO VALVES, COCKS, UNIONS, TRAPS, AND TO CLEAR OPENINGS OF ACCESS AND ACCESS PANELS.
 - ADJUST LOCATIONS OF PIPES, EQUIPMENT, AND FIXTURES TO ACCOMMODATE WORK TO INTERFERENCES ANTICIPATED AND ENCOUNTERED.
 - INSTALL PLUMBING WORK TO PERMIT REMOVAL OF EQUIPMENT AND PARTS OF EQUIPMENT REQUIRING PERIODIC REPLACEMENT OR MAINTENANCE WITHOUT DAMAGE TO OR INTERFERENCE WITH OTHER PARTS OF EQUIPMENT OR STRUCTURE.
 - DETERMINE EXACT ROUTE AND LOCATION OF EACH PIPE BEFORE FABRICATION.
 - RIGHT-OF-WAY:
 - LINES THAT PITCH SHALL HAVE RIGHT-OF-WAY OVER THOSE THAT DO NOT FITCH. FOR EXAMPLE, PLUMBING DRAINS SHALL NORMALLY HAVE RIGHT-OF-WAY.
 - LINES WHOSE ELEVATIONS CANNOT BE CHANGED SHALL HAVE RIGHT-OF-WAY OVER LINES WHOSE ELEVATIONS CAN BE CHANGED.
 - OFFSET, TRANSITIONS, AND CHANGES IN DIRECTION.
 - MAKE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION IN PIPES AS REQUIRED TO MAINTAIN PROPER HEAD ROOM AND FITCH OF SLOPING LINES WHETHER OR NOT INDICATED ON DRAWINGS.
 - MAKE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION IN PIPES AS REQUIRED TO MAINTAIN PROPER HEAD ROOM AND FITCH OF SLOPING LINES WHETHER OR NOT INDICATED ON DRAWINGS.
 - FURNISH AND INSTALL ALL TRAPS, AIR VENTS, SANITARY VENTS, AND DEVICES AS REQUIRED TO EFFECT THESE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION.
- THE WORD "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL." CONTRACTORS SHALL PROVIDE ALL REQUIRED EQUIPMENT AND PARTS FOR THE FINAL CONNECTION OF EQUIPMENT BY OTHERS.
- CONTRACTORS SHALL INSPECT THE SITE PRIOR TO SUBMITTING A BID, NO EXTRA SHALL BE ACCEPTED FOR FAILURE TO VISIT SITE PRIOR TO TENDER CLOSE.
- CONTRACTORS ARE TO SUPPLY TOOLS, EQUIPMENT, AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL IN THE OPERATING, CONTROLLING, ADJUSTING, TROUBLESHOOTING, AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS.
- DRAWINGS INDICATE GENERAL ROUTING OF PIPING, EQUIPMENT, AND DUCTWORK. COORDINATE ON SITE PRIOR TO DUCT FABRICATION.
- PROVIDE ACCESS DOORS IN DRYWALL CEILING AND WALLS FOR ACCESS TO ALL VALVES, DAMPERS AND DEVICES REQUIRING PERIODIC MAINTENANCE. DOORS TO BE STEEL WITH QUARTER TURN FASTENERS.
- PROVIDE FACTORY FABRICATED IDENTIFICATION, INCLUDING DIRECTION ARROWS, FOR ALL PIPING, EQUIPMENT, AND DUCTWORK. IDENTIFICATIONS ARE TO BE INSTALLED AT EACH CHANGE IN DIRECTION, ON BOTH SIDES OF WALLS OR OBSTRUCTIONS, AND EVERY 15 METRES OF STRAIGHT RUN.
- PROVIDE CUTTING, PATCHING, AND CORING OF ALL WALLS, CEILINGS, CONCRETE SLABS, AND OTHER SURFACES AS REQUIRED FOR MECHANICAL WORK. COORDINATE WITH SCHOOL BOARD REPRESENTATIVE PRIOR TO CORE DRILLING AND CUTTING OF STRUCTURE REGARDING BUILDING REQUIREMENTS AND POLICIES. ALL PROPOSED OPENINGS TO BE SCANNED, TRACED, AND REVIEWED BY A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR AND LICENSED IN THE PROVINCE OF ONTARIO PRIOR TO CORING, CUT, DAMAGED, OR DISTURBED SURFACES MUST BE PATCHED AND REPAIRED TO SCHOOL BOARD REPRESENTATIVE'S ACCEPTANCE. MATCH EXISTING MATERIAL, COLOUR, FINISH, AND TEXTURE OR AS INDICATED OTHERWISE.
- THESE DRAWINGS SHOW THE COMPLETED WORK ONLY. INSTALL AND REMOVE ALL TEMPORARY WORKS (SHORING, BRACING, ETC) REQUIRED TO PROTECT THE EXISTING STRUCTURE AND ARCHITECTURAL FINISHES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT ARE NOT SHOWN.
- COORDINATION
 - MECHANICAL TRADES TO CONVEY REGULAR COORDINATION MEETINGS ON SITE AT MINIMUM BIWEEKLY INTERVALS TO REVIEW UPCOMING INSTALLATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES. NO EQUIPMENT SERVICES, ACCESSORIES, SUBSTRATE OR PREPARATIONS FOR INSTALLATION ARE TO PROCEED WITHOUT COORDINATION WITH GENERAL CONTRACTOR AND OTHER TRADES TO ENSURE THAT NO INTERFERENCES OCCUR WITH WORK OR INSTALLATIONS OF OTHER TRADES.
 - IN THE EVENT OF INTERFERENCES IDENTIFIED DURING COORDINATION, PREPARE INTERFERENCE DRAWINGS TO SCALE AND SUBMIT TO SCHOOL BOARD REPRESENTATIVE FOR REVIEW OR CLARIFICATION IN WRITING BEFORE PROCEEDING.
 - IF SEEKING DIRECTION FOR ALTERNATE ROUTING OF SERVICES OR LOCATIONS OF EQUIPMENT, PREPARE SCALED SKETCHES AND SUBMIT TO SCHOOL BOARD REPRESENTATIVE FOR REVIEW IN WRITING BEFORE PROCEEDING.
 - DUE TO THE DIAGRAMMATIC NATURE OF THE DRAWINGS, INTERFERENCES RESULTING FROM SERVICES THAT ARE INSTALLED WITHOUT COORDINATION WITH THE GENERAL CONTRACTOR AND OTHER TRADES WILL BE RELOCATED AT THE CONTRACTORS EXPENSE, REGARDLESS OF THE LAYOUTS DEPICTED ON THE DRAWINGS.
- ALL TEMPORARY WORKS SHALL BE DESIGNED AND REVIEWED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AND LICENSED IN THE PROVINCE OF ONTARIO.
- CONSTRUCTION LOADS ON THE PERMANENT STRUCTURE ALONG THE PATH OF TRAVEL SHALL BE ASSESSED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AND LICENSED IN THE PROVINCE OF ONTARIO.

- CONTRACTORS SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING OF SPRINKLER SYSTEM AT THE END OF EACH DAY. THE SPRINKLER SYSTEM SHALL BE LEFT OPERATIONAL AT THE END OF EACH WORK DAY.
- THE DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ONE IS APPLICABLE TO ALL.
- SPECIFIC MATERIALS, PRODUCTS AND SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS PROVIDE A STANDARD OF ACCEPTANCE. EQUIVALENT MATERIALS, PRODUCTS OR SYSTEMS FROM OTHER MANUFACTURERS ARE ACCEPTABLE AS SUBSTITUTIONS PROVIDED THAT THE PROPERTIES AND COMPLIANCES OF THE SUBSTITUTIONS MEET OR EXCEED THE PROPERTIES AND COMPLIANCES OF THE SPECIFIED MATERIALS, PRODUCTS AND SYSTEMS IN ALL RESPECTS AND THAT ITEMS EXPOSED TO SIGHT ARE OF THE SAME APPEARANCE AS THE SPECIFIED ITEMS.

MECHANICAL SPECIFICATIONS

GENERAL:

- SEISMIC RESTRAINT SYSTEM (SRS):
 - DESIGN TO BE BY PROFESSIONAL ENGINEER SPECIALIZING IN DESIGN OF SRS AND REGISTERED IN THE PROVINCE OF ONTARIO. SRS CALCULATIONS AND DRAWINGS SHALL BEAR THE SRS DESIGN ENGINEERS SEAL AND SIGNATURE.
 - FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE DISCIPLINE AS IT RELATES TO THE SRS. CONTRACTOR TO COMPLY WITH BOTH OBC & NFPA.
 - EACH CONTRACTOR SHALL USE ONE SUPPLIER TO PROVIDE SEISMIC DESIGN.
 - SEISMIC RESTRAINTS ARE TO BE PROVIDED FOR ALL OPERATIONAL AND FUNCTIONAL COMPONENTS OF BUILDINGS SERVICES IN ACCORDANCE WITH THE CURRENT OBC, ASHRAE STANDARD "PRACTICAL GUIDE TO SEISMIC RESTRAINT", NFPA, SMACNA "SEISMIC RESTRAINT MANUAL" AND GOOD ENGINEERING PRACTICE.
 - ACCEPTABLE MANUFACTURERS: KINETICS/VERBORN, MASON.

FIRE PROTECTION:

- SPRINKLER:
 - GENERAL:
 - TO ANSINFPFA 13-2016 AND ULC LISTED FOR FIRE SERVICES.
 - PROVIDE FIRE GUARDS IN ALL MECHANICAL, STORAGE, AND ELECTRICAL ROOMS.
 - ALL SPRINKLER HEADS SHALL HAVE LOW ZINC CONTENT (LESS THAN 10%) BRASS ALLOY BODY AND METAL-TO-METAL SEALING MECHANISM IN THE WATER WAYS.
 - SPRINKLER HEAD:
 - UPRIGT AND PENDANT: BRONZE BODY, QUICK RESPONSE FOR HAZARD COVERAGE AS INDICATED, 0.8K FACTOR, ADJUSTABLE CHROME ESCUTCHEON, FM APPROVED, CHROME FINISH, GLASS BULB TYPE, 68C RATED, 13MM ORifice.
 - PIPE FITTINGS & VALVES:
 - WET PIPE SYSTEMS: FERROUS TO ANSINFPFA 13-2016 FITTINGS AND JOINTS TO ANSINFPFA 13-2016.
 - FERROUS: SCREWED, WELDED, FLANGED OR ROLL GROOVED.
 - VALVES:
 - ULC LISTED FOR FIRE PROTECTION SERVICE
 - UP TO NPS2: BRONZE, SCREWED ENDS, OS&Y RISING STEM GATE OR BALL
 - NPS 2-1/2 AND OVER: CAST IRON, FLANGED OR ROLL GROOVED ENDS, OS&Y RISING STEM GATE OR BUTTERFLY TYPE.
 - CHECK VALVES: SPRING TYPE AS ABOVE.
 - FIRE EXTINGUISHER:
 - SEMI-RECESSED CABINET PFE-1
 - STORED PRESSURE DRY CHEMICAL TYPE WITH STEEL CYLINDER, POSITIVE ON/OFF OPERATION, AND WATERPROOF STAINLESS STEEL GAUGE, ULC LABELLED FOR A, B, & C CLASS PROTECTION COW SEMI-RECESSED CANOPY TYPE CABINET WITH FRAMED DOOR AND CURVED TRANSPARENT CANOPY, SIZE 5LBS, 3A-10BC.

PLUMBING:

- SANITARY & STORM PIPING:
 - ALL EXPOSED ABOVE-GRADE SANITARY DRAINAGE AND VENT PIPING SHALL BE CAST IRON, TYPE DWV HARD DRAWN COPPER TUBE WITH CAST BRASS SOLDER FITTINGS USE 100% LEAD FREE SOLDER, OR XFR PVC TYPE PIPING. PIPE MATERIALS TO MEET THE REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
 - NO COMBUSTIBLE PIPING TO BE USED IN RETURN AIR PLENUMS.
 - INTERIOR STORM PIPING TO BE INSULATED WITH 2" THICK GLASS FIBRE THERMAL INSULATION WITH VAPOUR BARRIER AND VINYL JACKET.
 - BELOW GRADE SANITARY, STORM PIPING AND FITTINGS TO CSA-B-161.2 LATEST EDITION.
 - NPS 4 AND LARGER: PVC OR 35 GASKETED RING-TITE SYSTEM TO GARBAGE CAN.
 - NPS 1-1/2 TO 3: CERTIFIED SOLVENT WELD PVC PIPE TYPE I GRADE 1, DWV, SCHEDULE 40, ONE STEP SOLVENT CEMENT WELD FOR PVC.
- NATURAL GAS PIPING:
 - PIPE: STEEL PIPE TO ASTM A120 OR ASTM A53A 60-SCHEDULE 40, SEAMLESS AS FOLLOWS:
 - NPS 1 TO 2: SCREWED.
 - FITTINGS: STEEL PIPE FITTINGS, SCREWED, FLANGED, OR WELDED.
 - MALLEABLE IRON: SCREWED, BANNED, CLASS 150.
 - UNIONS: MALLEABLE IRON, BRASS TO IRON, GROUND SEAT, TO ASTM A 478-80.
 - JOINTING MATERIAL: PULVERIZED LEAD PASTE.
 - VALVES: PROVINCIAL CODE APPROVED, LUBRICATED JOG OR BALL TYPE.
 - PIPING TO BE PAINTED YELLOW AND MARKED WITH IDENTIFYING FITTINGS AND SPECIALS TO SMACNA.
 - CONTRACTOR SHALL PROVIDE ALL PLATES, HANGERS, BRACKETS, WALL CARRIERS, CLEATS AND INTERIOR WALL SUPPORTS FOR RIDGID SUPPORTING PLUMBING PIPING SYSTEMS.
 - CONTRACTOR SHALL PROVIDE ALL ACCESS DOORS/PANELS NECESSARY FOR DEVICES REQUIRING SERVICING (I.E. CLEANOUTS, SHUTOFFS, ETC) THAT MAY BE INSTALLED BEHIND DRYWALL CEILING OR WALLS. THE EXACT LOCATION OF SUCH DEVICES SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS PRIOR TO TENDERING. CONTRACTOR IS ALSO EXPECTED TO NOTE WHETHER THESE ACCESS DOORS/PANELS ARE REQUIRED FOR REPAIR OF INSULATION REMOVED OR DAMAGED DURING WORK.
- ROOF DRAINS:
 - RO: EPOXY COATED CAST IRON ROOF DRAIN WITH DEEP BUMP, WIDE SERRATED FLASHING FLANGE, FLASHING CLAMP DEVICE WITH INTEGRAL GRAVEL STOP AND SELF-LOCKING DUCTILE IRON DOME. COMPLETE DRAIN WITH ADJUSTABLE CONTROL WEB.
 - ACCEPTABLE MATERIAL: WATTS RD-100 SERIES, OR APPROVED EQUAL WITH DUCTILE IRON DOME.
- CLEANOUTS:
 - HEAVY CAST IRON MALE FERRULE WITH BRASS SCREWS AND THREADED BRASS PLUG. SEALING - CALKED LEAD SEAT OR NEOPRENE GASKET.
 - ACCEPTABLE MATERIAL: WATTS CO-304, OR APPROVED EQUAL.

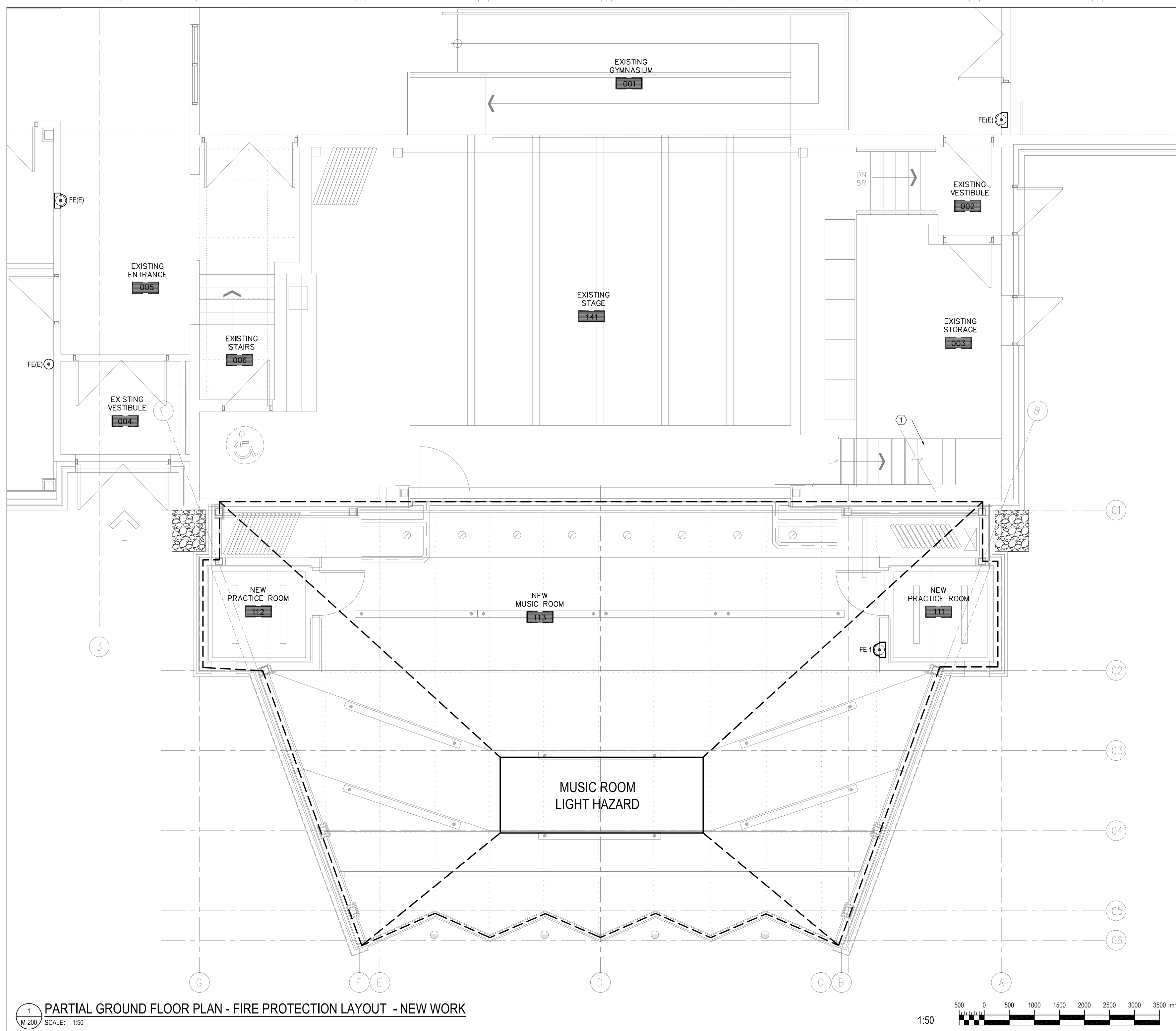
HVAC:

- DUCTWORK:
 - MATERIAL:
 - GALVANIZED STEEL WITH 20% DESIGNATION ZINC COATING, LOCK FORMING QUALITY TO ASTM A663M/B.
 - THICKNESS TO MATCH SMACNA UNLESS OTHERWISE NOTED.
 - DUCTS TO BE ATTACHED TO STRUCTURE WITH MATCHING FITTINGS AND SPECIALS TO SMACNA.
 - SEAL CLASSIFICATION: CLASS A LONGITUDINAL SEAMS, TRANSVERSE JOINTS, DUCT WALL PENETRATIONS AND CONNECTIONS SHALL BE MADE AIRTIGHT WITH SEALANT AND REINFORCING TAPE.
 - SEALANT: OIL RESISTANT, POLYMER TYPE FLAME RESISTANT HIGH VELOCITY DUCT SEALING COMPOUND.
 - ACCEPTABLE MATERIAL: DURO DINE S-2
 - TAPE: POLYVINYL, TREATED, OPEN WEAVE FIBRE GLASS, 2" WIDE.
 - ACCEPTABLE MATERIAL: DURO DINE F1-2
 - INSULATION
 - RECTANGULAR DUCTS:
 - TAC CODE C-1: 2" THICK RIGID MINERAL FIBRE BOARD TO ASTM C 612, WITH FACTORY APPLIED VAPOUR RETARDER JACKET TO CGSB 51-GR-09A.
 - ROUND DUCTS:
 - TAC CODE C-2: 2" THICK MINERAL FIBRE BLANKET TO ASTM C 663 FACED WITH FACTORY APPLIED VAPOUR RETARDER JACKET TO CGSB 51-GR-09A.
 - MINERAL FIBRE: TO ASTM C 553.
 - JACKET: TO CGSB 51-GR-09A.
 - MAXIMUM % FACTOR: TO ASTM C 553.
 - ALUMINUM JACKETING
 - APPLICATION: OUTDOOR DUCTS AND DUCT RISERS.
 - TO ASTM B 209 WITH MOISTURE BARRIER.
 - THICKNESS: 0.018" SHEET.
 - FINISH: STUCCO EMBOSSED.
 - JACKET BANDING AND MECHANICAL SEALS: 19mm wide, 0.5 mm THICK STAINLESS STEEL.
 - FINISHES
 - INDOOR CONCEALED RECTANGULAR OR ROUND: NONE
 - INDOOR EXPOSED RECTANGULAR: TAC CODE CRF/2
 - INDOOR EXPOSED ROUND: TAC CODE CRD/3
 - OUTDOOR EXPOSED RECTANGULAR: TAC CRF/3
 - OUTDOOR EXPOSED ROUND: TAC CRD/4
 - ACOUSTIC INSULATION
 - ACOUSTIC INSULATION TO BE 25MM (1") THICK GLASS WOOL SLAB WITH GLASS VEL. FINED TO INTERIOR OF DUCTWORK.
- GRILLES & DIFFUSERS:
 - TAG NO. LSO-1: E-H PRICE SDA PLENUM (W/ ACUSTIC LINING) WISDS DIFFUSER MODEL 90, 2-6/01.
 - TAG NO. LSO-12: E-H PRICE LBH 16A W/ VC53 OPPOSED BLADE DAMPER 15 DEGREE DEFLECTION TO SHOOT AIR TOWARDS WINDOWS).
 - TAG NO. RG-1: E-H PRICE 96 EXTRUDED ALUMINUM HEAVY DUTY RETURN GRILLES.
- BALANCING DAMPERS
 - SINGLE BLADE DAMPERS
 - FABRICATION FROM SAME MATERIAL AS DUCT, BUT ONE SHEET METAL THICKNESS HEAVIER, V-GROOVE STIFFENED.
 - SIZE AND CONTOUR TO RECOMMENDATIONS OF SMACNA, EXCEPT MAXIMUM HEIGHT 100mm.
 - LOCKING QUADRANT WITH SHAFT EXTENSION TO ACCOMMODATE INSULATION THICKNESS.
 - INSIDE AND OUTSIDE BRONZE END BEARINGS.

- CHANNEL FRAME OF SAME MATERIAL AS ADJACENT DUCT, COMPLETE WITH ANGLE STOP.
- MULTI-BLADED DAMPERS
 - FACTORY MANUFACTURED OF MATERIAL COMPATIBLE WITH DUCT.
 - OPPOSED BLADE CONFIGURATION, METAL THICKNESS AND CONSTRUCTION TO RECOMMENDATIONS OF SMACNA.
 - MAXIMUM BLADE HEIGHT: 100mm.
 - BEARINGS: PIN IN BRONZE BUSHINGS OR SELF-LUBRICATING NYLON.
 - LINKAGE: SHAFT EXTENSION WITH LOCKING QUADRANT.
 - CHANNEL FRAME OF SAME MATERIAL AS ADJACENT DUCT, COMPLETE WITH ANGLE STOP.
 - MAXIMUM LEAKAGE: 2% AT 500 PA.
- ACCESS DOOR IN DUCTS:
 - NON-INSULATED DUCTS: SANDWICH CONSTRUCTION OF SAME MATERIAL AS DUCT, ONE SHEET METAL THICKNESS HEAVY, MINIMUM 0.6 mm THICK COMPLETE WITH SHEET METAL ANGLE FRAME.
 - INSULATED DUCTS: SANDWICH CONSTRUCTION OF SAME MATERIAL AS DUCT, ONE SHEET METAL THICKNESS HEAVY, MINIMUM 0.6 mm THICK COMPLETE WITH SHEET METAL ANGLE FRAME AND 25MM THICK RIGID GLASS FIBRE INSULATION.
 - GASKETS: NEOPRENE
 - HARDWARE:
 - UP TO 300X300 mm: TWO SASH LOCKS COMPLETE WITH SAFETY CHAIN.
 - 301 TO 450 mm: FOUR SASH LOCKS COMPLETE WITH SAFETY CHAIN.
 - 451 TO 100 mm: PIANO HINGE AND MINIMUM TWO SASH LOCKS.
 - DOOR OVER 100 mm: PIANO HINGE AND TWO HANDLES OPERABLE FROM BOTH SIDES.
- PRESSURE TESTING OF DUCTED AIR SYSTEM.
 - TEST PROCEDURES
 - MAXIMUM LENGTHS OF DUCTS TO BE TESTED CONSISTENT WITH CAPACITY OF TEST EQUIPMENT.
 - TESTING OF DUCTS TO BE TESTED TO INCLUDE:
 - FITTINGS, BRANCH DUCTS, TAP-INS.
 - REPEAT TESTS UNTIL STATED PRESSURES ATTAINED, BEAR COST FOR REPAIRS AND REPEATITION TO TESTS.
 - BAR PARTIAL SYSTEM LEAKAGE CALCULATIONS ON SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.
 - SEAL LEAKS THAT CAN BE HEARD OR FELT, REGARDLESS OF THEIR CONTRIBUTION TO TOTAL LEAKAGE.
 - SITE TOLERANCES
 - SYSTEM LEAKAGE TOLERANCE SPECIFIED ARE STATED AS PERCENTAGE OF FLOW RATE HANDLED BY SYSTEMS; PRO-RATE SPECIFIED SYSTEM LEAKAGE TOLERANCES; LEAKAGE FOR SECTIONS OF DUCT SYSTEMS; NOT TO EXCEED TOTAL ALLOWABLE LEAKAGE 2%.
 - LEAKAGE TESTS ON FOLLOWING SYSTEMS NOT TO EXCEED SPECIFIED LEAKAGE RATES:
 - EVALUATION OF TEST RESULTS TO USE SURFACE AREA OF FURT DUCT AND PRESSURE IN DUCT AS BASIS PARAMETER.
 - TESTING
 - TEST DUCTS BEFORE INSULATION OR OTHER FORMS OF CONCEALMENT.
 - TEST AFTER SEALS HAVE CURED.
 - TEST WHEN AMBIENT TEMPERATURE WILL NOT AFFECT EFFECTIVENESS OF SEALS AND GASKETS.

6. TESTING, ADJUSTING AND BALANCING (TAB):

- GENERAL REQUIREMENTS
 - DURING TAB ALL RELATED SYSTEM COMPONENTS SHALL BE IN FULL OPERATION. FAN AND PUMP ROTATION, MOTOR LOADS AND EQUIPMENT VIBRATION SHALL BE CHECKED AND CORRECTED AS NECESSARY BEFORE PROCEEDING WITH TAB. SET CONTROLS AND / OR LOCK OFF PARTS OF DISTRIBUTION SYSTEM TO SIMULATE DESIGN OPERATION OF VARIABLE VOLUME AIR OR WATER SYSTEMS FOR TEST AND BALANCE WORK.
 - COORDINATE TAB PROCEDURES WITH ANY PHASE CONSTRUCTION COMPLETION REQUIREMENTS FOR THE PROJECT. PROVIDE TAB REPORTS FOR EACH PHASE OF THE PROJECT PRIOR TO PARTIAL FINAL INSPECTION OF EACH PHASE OF THE PROJECT.
 - ALL CONSTRUCTION WORK TO BE COMPLETE AND DUCT GENERATION TO BE FINISHED PRIOR TO COMMENCEMENT OF FINAL TAB.
 - TEST TO VERIFY PROPER AND SAFE OPERATION, DETERMINE ACTUAL POINTS OF PERFORMANCE, AND VERIFY SYSTEMS AND CONTROLS OF DESIGN DURING AVERAGE AND LOW LOADS USING ACTUAL OR SIMULATED LOADS.
 - ADJUST AND REGULATE EQUIPMENT AND SYSTEMS SO AS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS AND TO ACHIEVE EFFECTIVE INTERACTION WITH ALL OTHER RELATED SYSTEMS UNDER ALL NORMAL AND EMERGENCY LOADS AND OPERATING CONDITIONS.



1 PARTIAL GROUND FLOOR PLAN - FIRE PROTECTION LAYOUT - NEW WORK
SCALE: 1:50

1:50

GENERAL NOTES

1. THE SPRINKLER CONTRACTOR SHALL REVIEW SHOP DRAWINGS OF EXISTING SPRINKLER SYSTEM AND REVIEW THE COMPLETE SET OF DRAWINGS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL.
2. THE SPRINKLER CONTRACTOR SHALL PARTICIPATE IN THE INTERFERENCE DRAWING PROCESS LEAD BY DIV 23.
3. SUBMIT SHOP DRAWINGS STAMPED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED OR LICENSED IN THE PROVINCE OF ONTARIO.
4. NEW PIPING MATERIAL TO MATCH EXISTING.
5. PROVIDE PENDENT SPRINKLER HEADS IN ALL LAY-IN TILE, BULKHEADS, AND DRYWALL CEILINGS EXCEPT AS NOTED OTHERWISE.
6. PENDANT SPRINKLER HEADS ARE TO BE LOCATED ALONG THE LONGITUDINAL CENTROID OF LAY-IN CEILING PANELS AND PLACED AT THE ONE-QUARTER OR ONE-HALF LENGTHS OF THESE PANELS. ALL SPRINKLER PLACEMENTS ARE TO BE COORDINATED WITH VENTILATION SYSTEM AND ELECTRICAL SYSTEM DEVICES AND FIXTURES LOCATED IN CEILINGS.
7. PROVIDE SEMI-RECESSED HEADS IN ALL SPACES WITH A CEILING, AND UPRIGHT HEADS FOR ALL OTHER SPACES.

DRAWING NOTES

1. MODIFY SPRINKLER LAYOUT IN EXISTING STORAGE ROOM BENEATH MEZZANINE AS NECESSARY TO SUIT RELOCATION OF STAIRS. VERIFY ON SITE.

CLIENT LOGO:



KEY PLAN:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
2. WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR AMBIGUITIES PRESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MUST SEEK CLARIFICATION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH RESULT AS A FAILURE TO CONTACT JP2G FOR DIRECTION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
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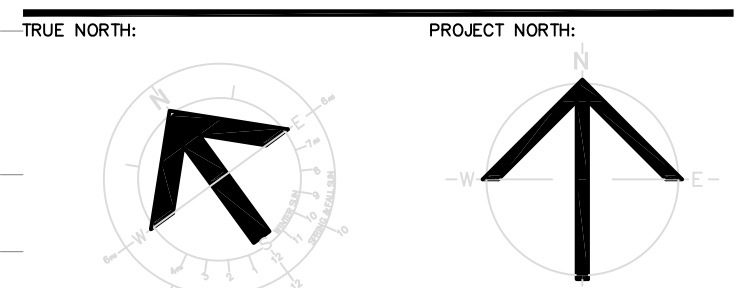
RECORD OF REVISIONS:

ISSUED TENDER	04/10/2018
ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
ISSUED FOR 90% REVIEW	04/20/2018
ISSUED FOR REVIEW	03/29/2018

NUMBER OF REVISIONS: _____ DATE: (MM/DD/YYYY)
PROFESSIONAL STAMP: _____ PROFESSIONAL STAMP: _____



STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM

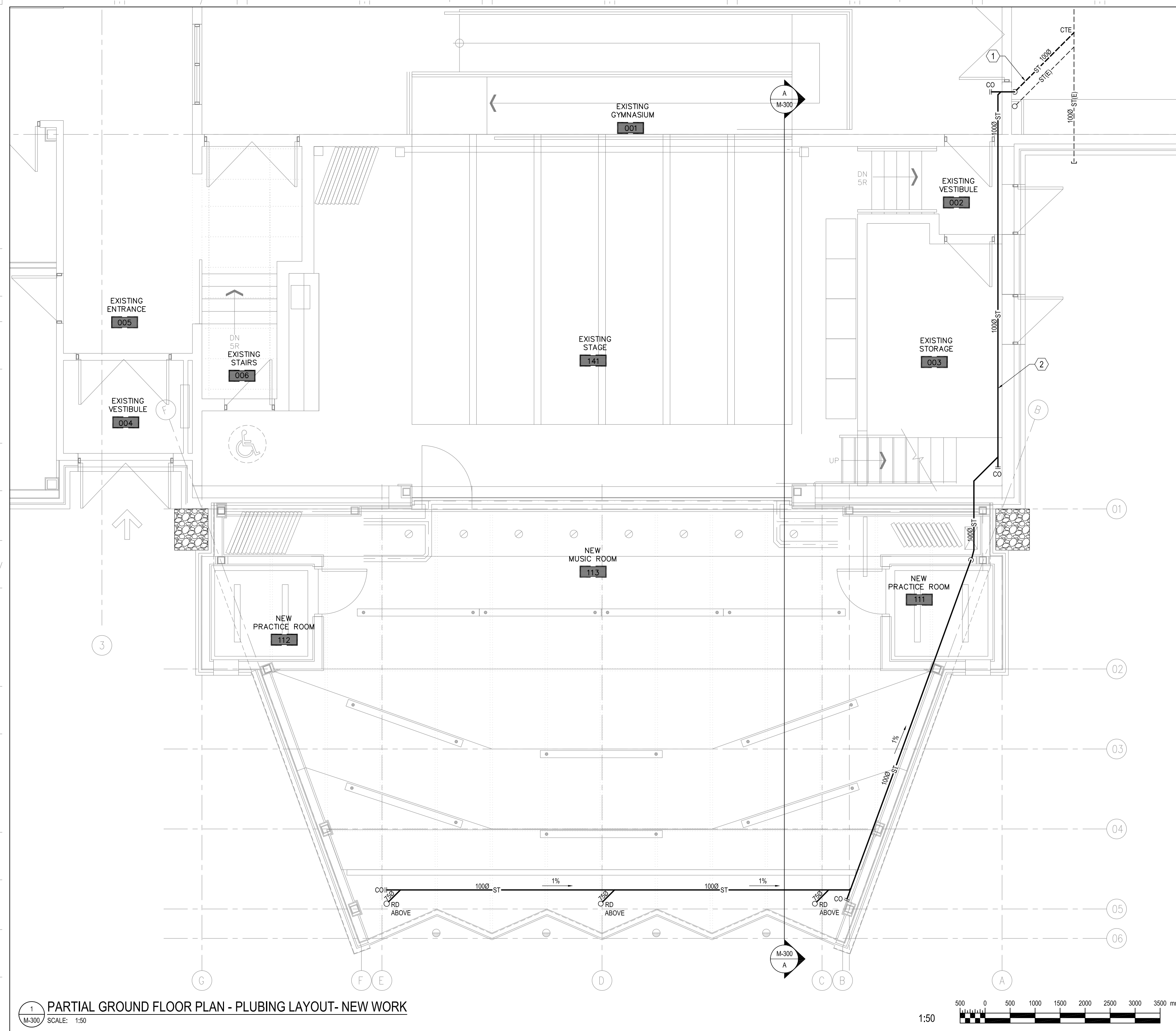
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

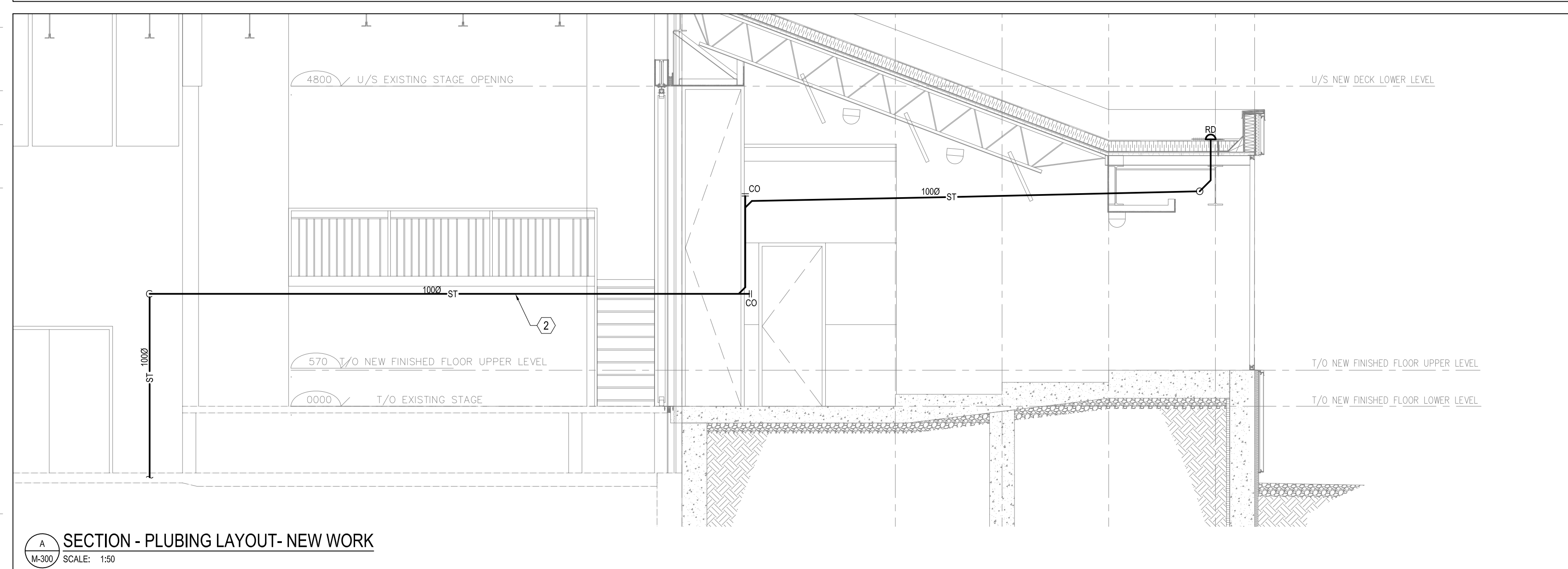
PARTIAL GROUND FLOOR PLAN
FIRE PROTECTION LAYOUT
NEW WORK

DRAWN BY:	T. ARMSTRONG	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	M.S.M.		
APPROVED BY:	M.S.M.		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-01		
CLIENT PROJECT #:		CIVPROJECT #:	1553

M-200



1 PARTIAL GROUND FLOOR PLAN - PLUMBING LAYOUT- NEW WORK
M-300 SCALE: 1:50



A SECTION - PLUMBING LAYOUT- NEW WORK
M-300 SCALE: 1:50

DRAWING NOTES

- ① FLOOR SLAB TO BE CUT AND REPAIRED BY OTHERS TO FACILITATE NEW PIPING INSTALLATION. REFER TO STRUCTURAL DRAWINGS.
- ② STORM PIPING SHALL BE EXPOSED IN EXISTING STORAGE ROOM 003. ROUTE PIPING TIGHT TO US OF DRYWALL CEILING.

CLIENT LOGO:



KEY PLAN:

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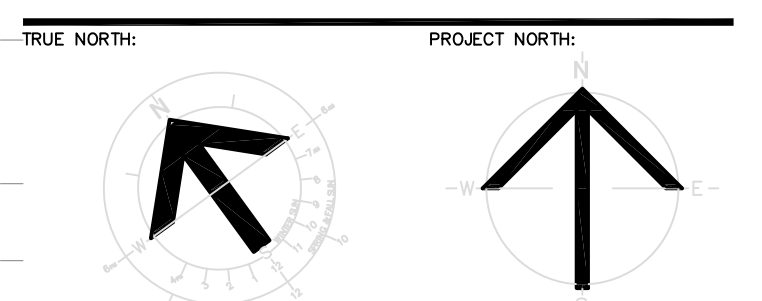
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ISSUED FOR REVIEW	03/29/2018

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STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:
PARTIAL GROUND FLOOR PLAN
PLUMBING LAYOUT
NEW WORK

DRAWN BY:	T. ARMSTRONG	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	M.S.M.		
APPROVED BY:	M.S.M.		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-01		
CLIENT PROJECT #:		CIVIL PROJECT #:	1553

M-300

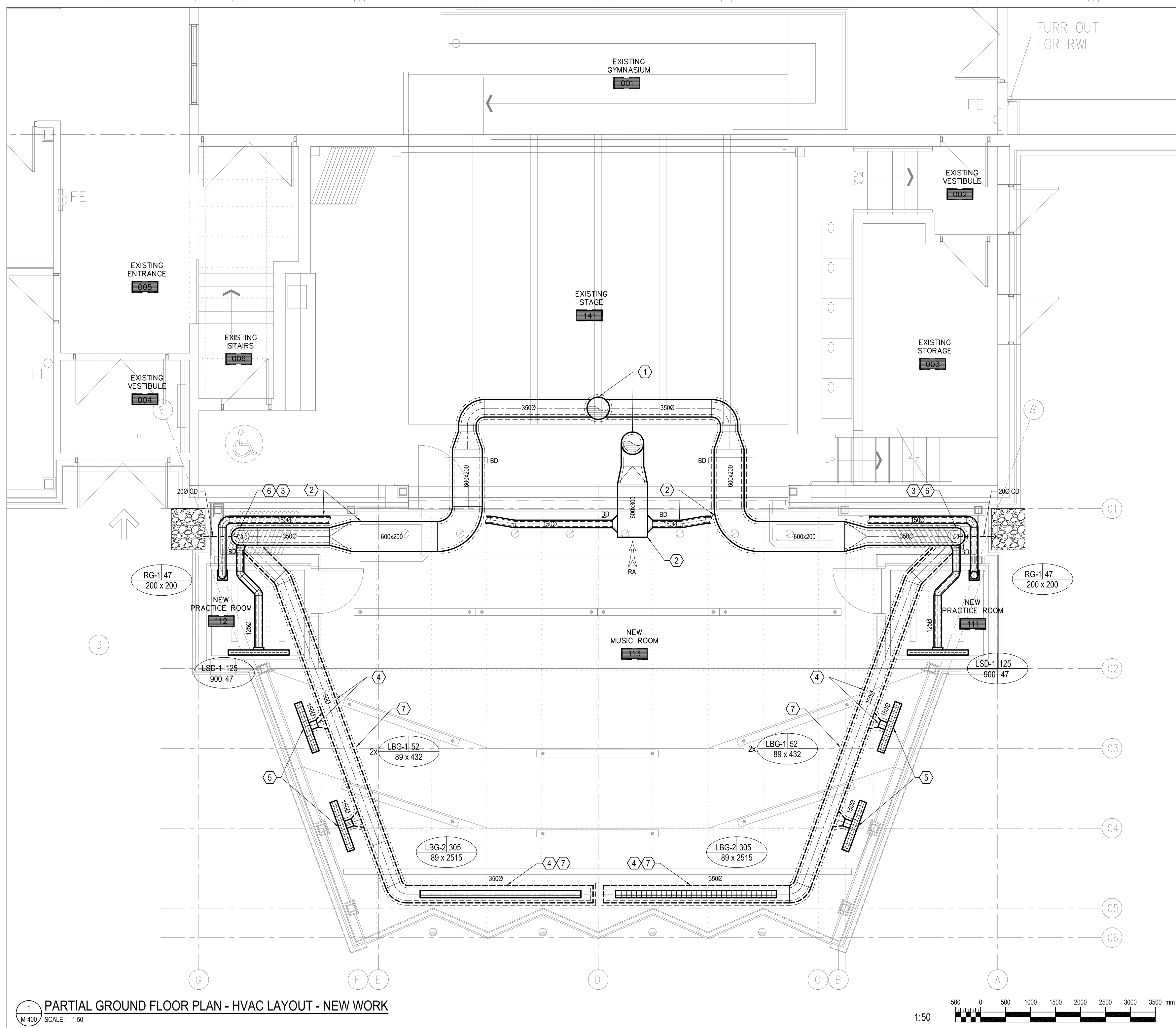
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DRAWING NOTES

- ① 450Ø DUCT UP TO ROOF. REFER TO DRAWING M-401 FOR CONTINUATION.
- ② DUCT TO BE INSTALLED IN BUCKHEAD. REFER TO ARCHITECTURAL DRAWINGS.
- ③ DUCT TO DROP TO UNDER FLOOR. PROVIDE ALUMINUM JACKETING FOR DUCT RISERS. SUPPORT DUCT FOR RISERS SHALL NOT BE FROM THE WALL @ GRIDLINE 01. COORDINATE WITH STRUCTURAL CONTRACTOR.
- ④ DUCT C/W ACOUSTICALLY & THERMALLY INSULATION TO BE UNDER FLOOR INSIDE TRENCH. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ⑤ PROVIDE A PLENUM (ACOUSTICALLY & THERMALLY INSULATED) UNDER LINEAR BAR GRILLE.
- ⑥ PROVIDE A CONDENSATE DRAIN AT LOWEST POINT OF UNDERGROUND DUCTWORK.
- ⑦ UNDERGROUND DUCT TO SLOPE TO LOWEST POINT AS INDICATED IN NOTE 6.
- ⑧ PROVIDE INSULATION FOR INTERIOR CONDENSATE DRAIN.
- ⑨ PROVIDE SLEEVES SCHEDULE 40 BLACK STEEL PIPE TO TERMINATE FLUSH WITH FINISHED SURFACE. MAINTAIN 6 mm(MIN.) BETWEEN SLEEVE AND INSULATION.

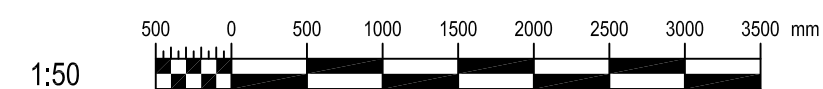
GENERAL NOTES

1. ALL UNDERGROUND DUCTWORK SHALL BE COMPLETELY ENCASED IN CONCRETE NOT LESS THAN 51 MM THICK. REFER TO STRUCTURAL DRAWINGS. DUCT SHALL BE SEALED AND SECURED PRIOR TO ANY CONCRETE BEING POURED.
2. DUCT DIMENSIONS, AS INDICATED, ARE CLEAR INSIDE DUCT LINING.

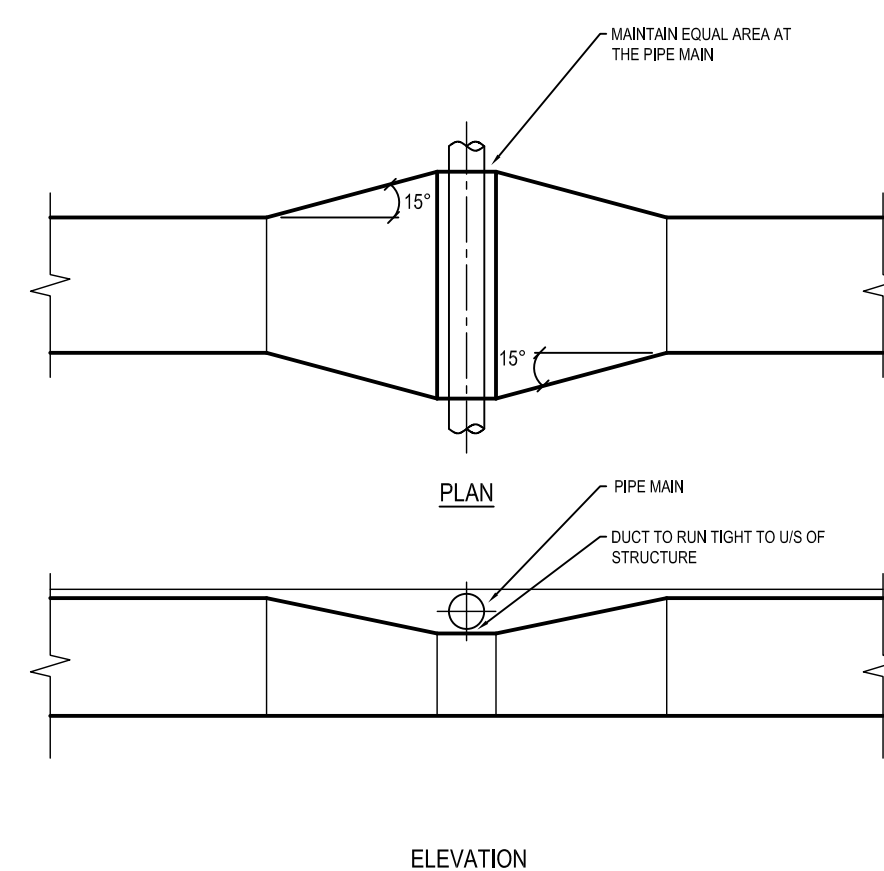


1 PARTIAL GROUND FLOOR PLAN - HVAC LAYOUT - NEW WORK

M-400 SCALE: 1:50

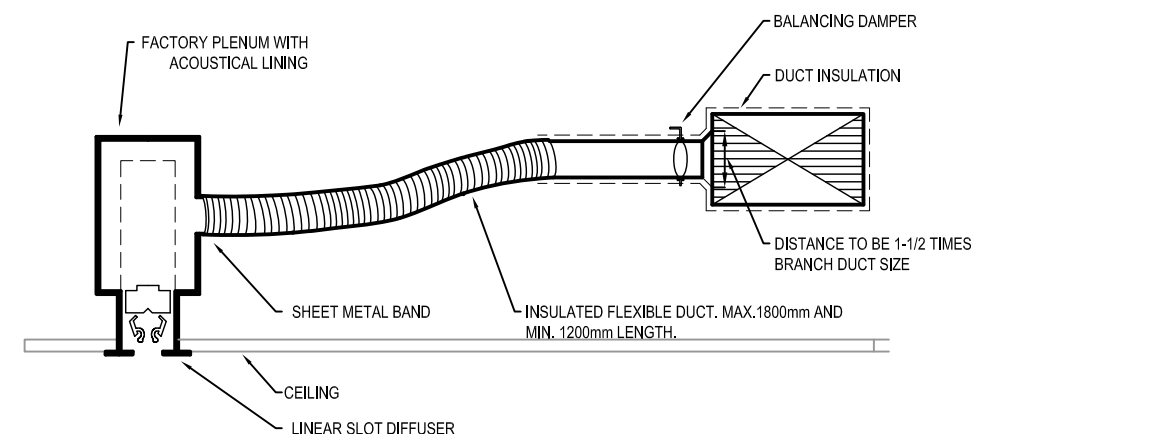


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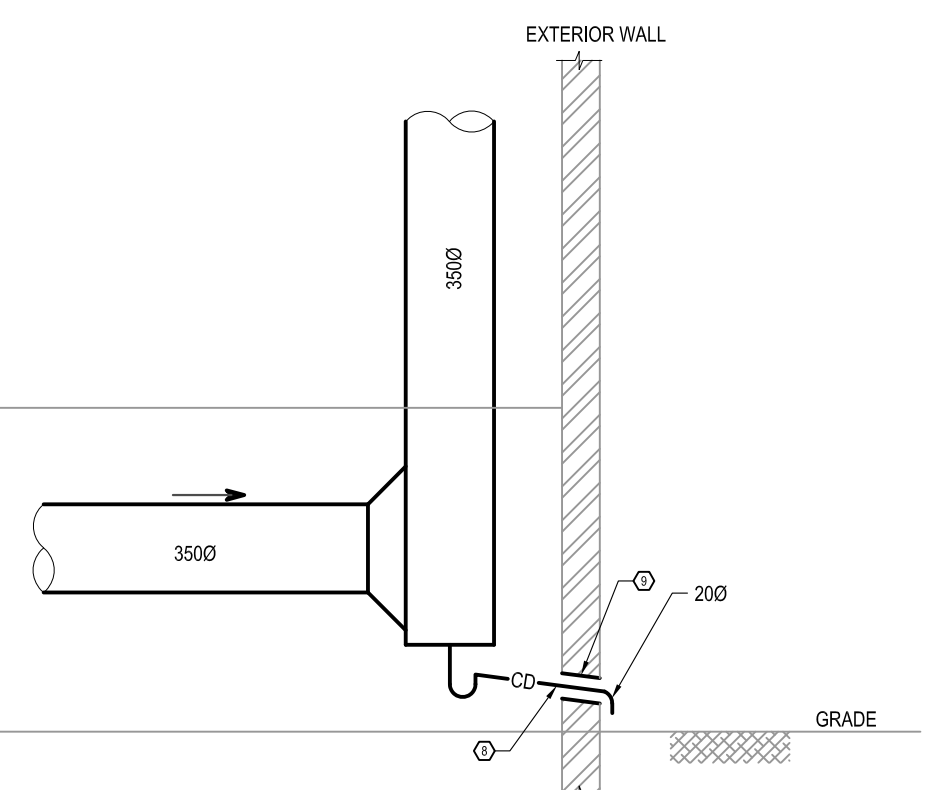
2 DUCT OBSTRUCTION TRANSITION DETAIL

M-400 SCALE: N.T.S.



3 LINEAR SLOT DIFFUSER

M-400 SCALE: N.T.S.



4 UNDERGROUND DUCT DRAINAGE

M-400 SCALE: N.T.S.

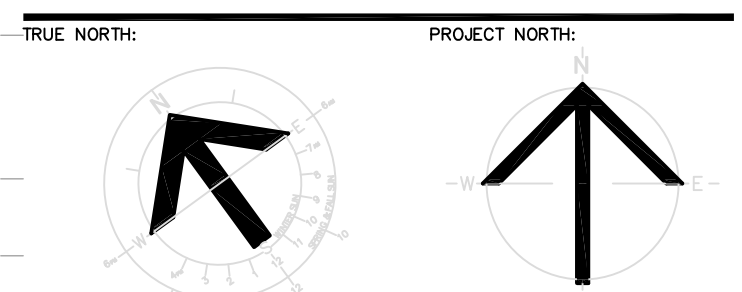
RECORD OF REVISIONS:

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ISSUED FOR REVIEW	03/29/2018

NUMBER OF REVISIONS: PROFESSIONAL STAMP: DATE: (MM/DD/YY)



STRUCTURAL, MECHANICAL & ELECTRICAL:

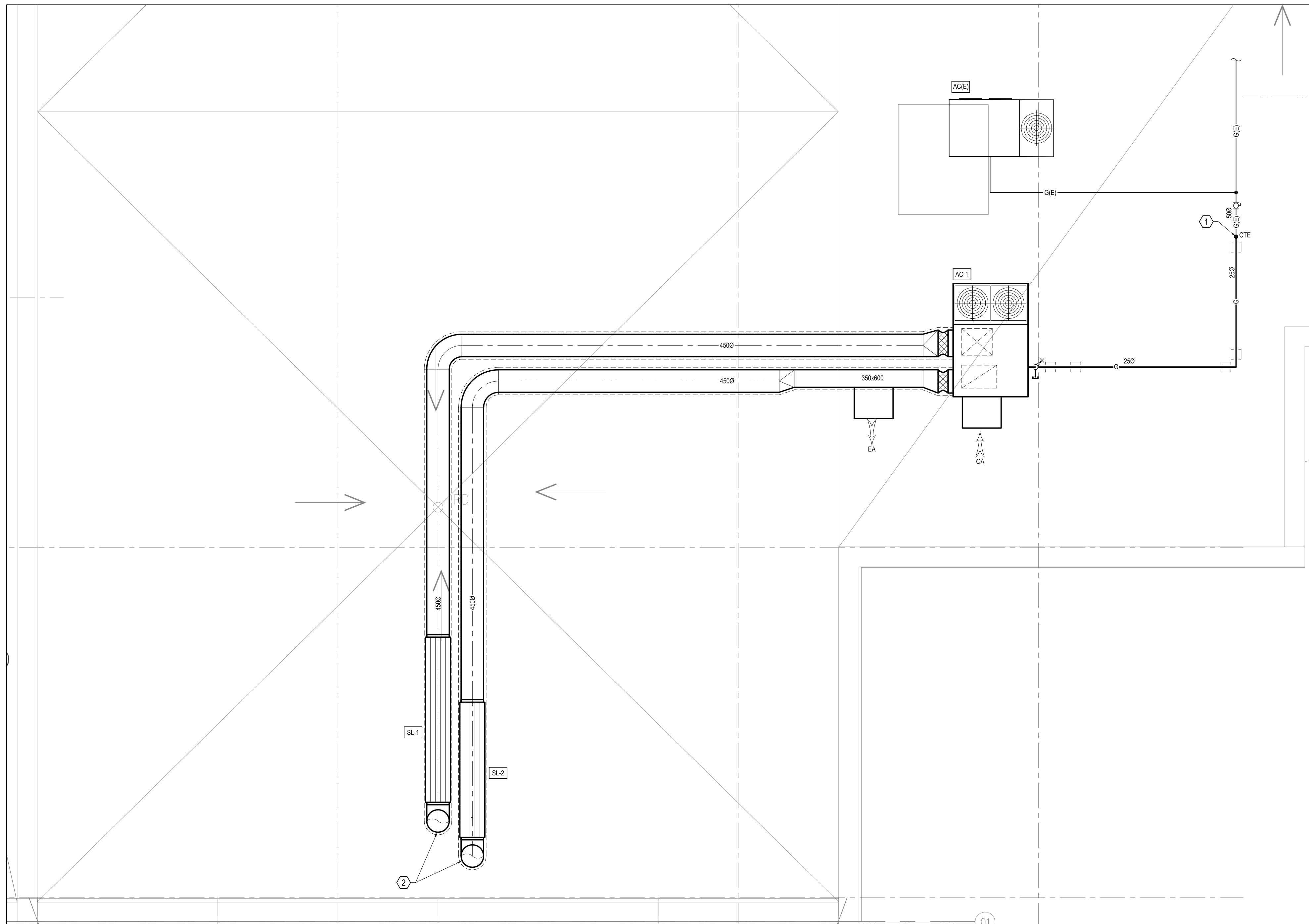


PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:
PARTIAL GROUND FLOOR PLAN
HVAC LAYOUT
NEW WORK AND DETAILS

DRAWN BY: T. ARMSTRONG DRAWING NUMBER:
DATE: 2018-05-01
REVIEWED BY: M.S.M.
APPROVED BY: M.S.M.
PRINT DATE: 5/1/2018 REVISION NUMBER:
ISSUED FOR: TENDER
DATE: 2018-05-01
CLIENT PROJECT #: CIVPROJECT #
1553

M-400



1 PARTIAL ROOF PLAN - HVAC LAYOUT - NEW WORK
M-401 SCALE: 1:50

GENERAL NOTES

1. PROVIDE SEISMIC SUPPORTS FOR GAS PIPING AND DUCTWORK ON ROOF.
2. DUCT DIMENSIONS, AS INDICATED, ARE CLEAR INSIDE DUCT LINING.

DRAWING NOTES

1. REMOVE EXISTING GAS STUB AND CONNECT TO EXISTING GAS PIPE AT APPROX. THIS LOCATION.
2. DUCT TO DROP AND PENETRATE ROOF. SEE DRAWING M - 400 FOR CONTINUATION. REFER TO ARCHITECTURAL DRAWINGS.



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NO.	DESCRIPTION	DATE
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2	ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
3	ISSUED FOR 90% REVIEW	04/20/2018
4	ISSUED FOR REVIEW	03/29/2018

NUMBER: REVISION: _____ DATE: (MM/DD/YY)
PROFESSIONAL STAMP: _____ PROFESSIONAL STAMP: _____



STRUCTURAL, MECHANICAL & ELECTRICAL:

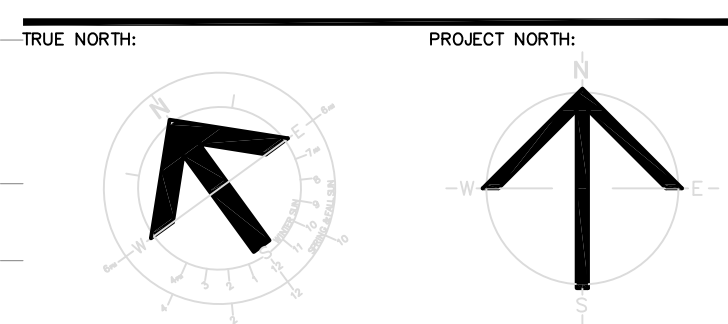


TAG	AREA SERVED	MANUFACTURER/MODEL	PACKAGED ROOFTOP UNIT SCHEDULE																														FILTER SECTION	WEIGHT (KG)	NOTES	
			SUPPLY FAN					ELECTRICAL			COOLING SECTION						REHEAT SECTION	HEATING SECTION				OUTDOOR AIR		CONDENSING SECTION												
			AIR VOLUME (L/s)	FAN SPEED (RPM)	BRAKE (kW)	MOTOR (kW)	DRIVE	E.S.P. (Pa)	MCA (AMP)	MOP (AMP)	V/Ph/Hz	TYPE	REFRIGERANT TYPE	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	E.A.T (°C)		L.A.T (°C)		AMBIENT TEMP. (°C)	TYPE	TOTAL CAPACITY (kW)	TYPE	INPUT (kW)	OUTPUT (kW)	HEAT OPTION	TEMP. RISE (°C)	COOLING (L/s)	HEATING (L/s)	COMPRESSOR TYPE	NO. OF COMPRESSORS	EER @ ARI				SEER @ ARI
AC-1	NEW PRACTICE ROOMS AND MUSIC ROOM (111, 112 AND 113)	YORK/ZR061S12DS42CA1A1 OR APPROVED EQUAL	911	1256	1.2	1.5	BELT	465	10.1	15.0	575/3/60	DX	R410A	18.3	13.2	25.2	18.5	13.2	12.6	30.0	HOT GAS	6.0	NATURAL GAS	35	28	MODULATING	25.8	198	283	HERMETIC	2			MERV 8	450	1, 2, 3, 4

- NOTES**
1. UNIT TO INCLUDE FACTORY MOUNTED CONTROL PANEL AND TESTED IN FACTORY.
 2. UNIT MANUFACTURER TO SUPPLY HORIZONTAL ECONOMIZER ACCESSORY (MODEL: 2E04706924) AND BAROMETRIC RELIEF DAMPER (MODEL: 1EH0498), WHICH ARE FIELD INSTALLED BY DIV 23.
 3. UNIT MANUFACTURER TO SUPPLY A SEISMIC RESTRAINT ROOF CURB (14" HIGH), WHICH IS SEALED BY A PROFESSIONAL ENGINEER RETAINED BY DIV. 23 AND LICENSED IN PROVINCE OF ONTARIO.
 4. UNIT TO HAVE SIDE AIRFLOW DISCHARGE. DOWN AIRFLOW DISCHARGE IS NOT ACCEPTABLE.

TAG	MANUFACTURER	MODEL	SYSTEM	FLOW (L/s)	P.D. (Pa)	FACE VELOCITY (m/s)	SIZE (mm)		DYNAMIC INSERTION LOSS (dB)								NOTES			
							W	L	INLET LEG		OUTLET LEG		63	125	250	500 1K		2K	4K	8K
SL-1	VAW SYSTEMS	RE-NEW OR APPROVED EQUAL	AC-1 SUPPLY	911	52.5	3.48	508	508	3353	457	457	16	32	44	53	55	52	41	27	
SL-2	VAW SYSTEMS	RE-NEW OR APPROVED EQUAL	AC-1 RETURN	911	35.0	-3.48	508	508	2743	457	457	12	23	35	43	51	44	33	27	

NOTES



PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM

**6025 PROMENAGE LONGLEAF
ORLÉANS, ON**

DRAWING TITLE:
EQUIPMENT SCHEDULE AND
PARTIAL ROOF PLAN
HVAC LAYOUT
NEW WORK

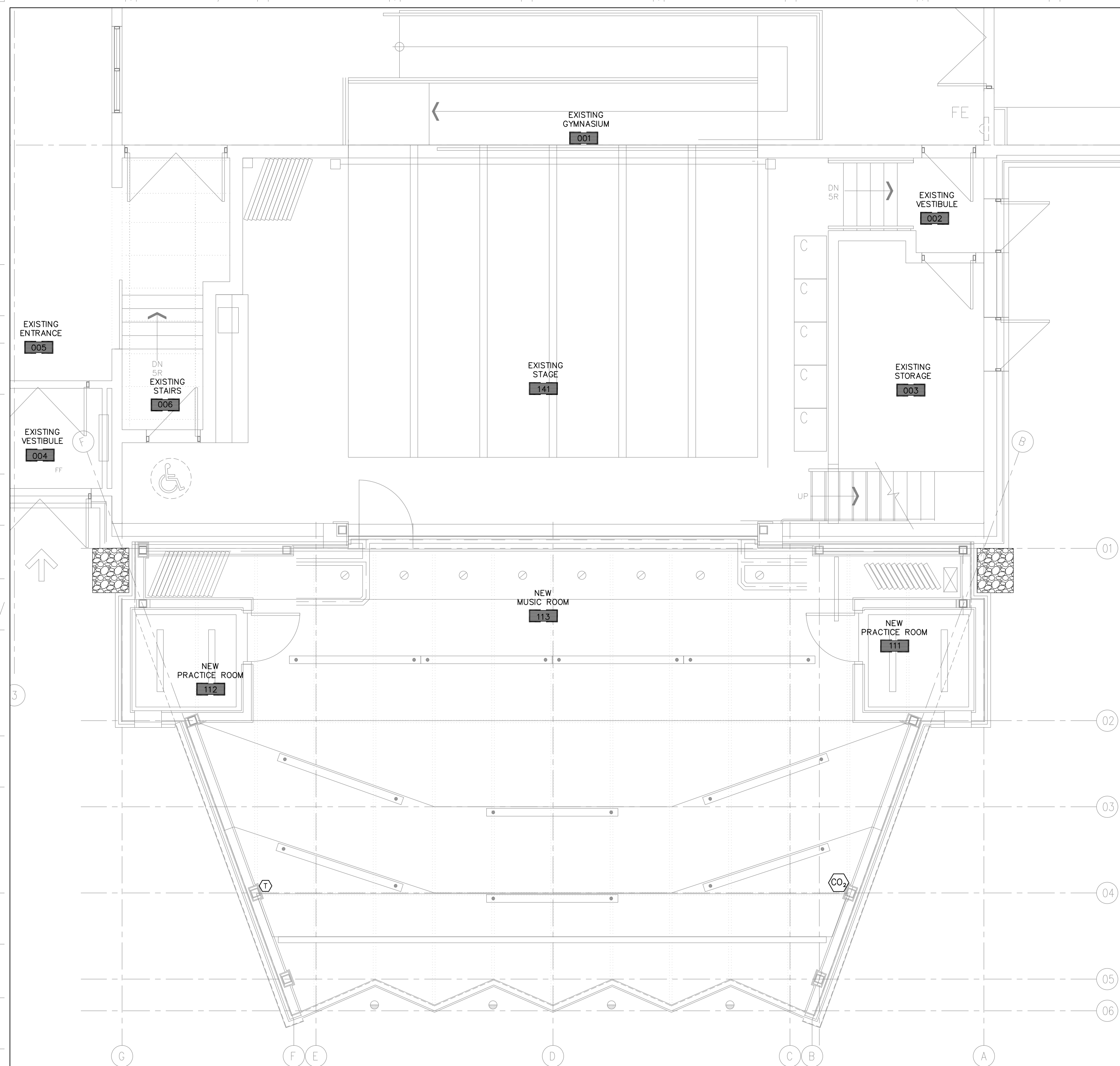
DRAWN BY: T. ARMSTRONG **DRAWING NUMBER:**
DATE: 2018-05-01
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1553

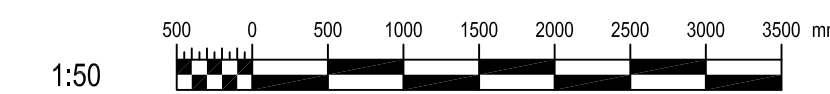
M-401

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1 PARTIAL GROUND FLOOR PLAN - CONTROLS LAYOUT - NEW WORK
SCALE: 1:50



SEQUENCING OF OPERATION

- 1.1 GENERAL**
- .1 The Controls Contractor shall allow for programming each point in the control points schedules allowing for programming sequences of operation, alarm points, trend logs, totalizers and energy management routines.
 - .2 The setpoints and algorithms shall be adjustable by the Building Operator.
 - .3 If a controlled parameter is outside its normal operating tolerance from setpoint, the integral and derivative portions of the PID loops shall be disabled to avoid integral windup.
- 1.2 AC-1**
- Alarms**
- .1 Display the following alarm conditions at BAS. Indicate specific component locations and detailed description within each alarm message:
 - .1 Fan failure
 - .2 Filter alarm
 - .3 High space CO2 concentration (if the CO2 concentration exceeds the setpoint by 10%)
 - .2 AHU Optimal Start
 - .1 During the warm-up/cool-down mode, the unit air mixing dampers shall operate as described in the Unoccupied mode.
 - .2 An adaptive optimal start algorithm shall be used to minimize the energy required and warm-up or cool-down time during the unoccupied period, necessary to achieve zone occupied temperature setpoints by the start of scheduled occupied period. The learning adaptive algorithm shall compare the zone temperature to the setpoint at beginning of scheduled occupied period and shall automatically adapt the heating or cooling response time for the next unoccupied period.
 - .3 Occupied Mode
 - .1 Energize unit based on the time-of-day schedule or manual selection via graphic interface.
 - .2 The unit controller shall use zone temperature to automatically select heating or cooling mode.
 - .3 Heating and cooling demand shall be calculated through independent heating and cooling PID outputs.
 - .4 Simultaneous heating and cooling shall be avoided.
 - .5 The unit shall admit outdoor air for free cooling based on the outdoor air enthalpy (temperature and humidity) relative to indoor air enthalpy.

Note: Both outdoor air temperature sensor and outdoor air humidity sensor will be installed in the outdoor air intake hood.
 - .6 Cooling Mode (zone temperature setpoint = 24°C db (adj)); When zone temperature rises above cooling setpoint with 1.5°C (adj), unit control shall be indexed to Cooling Mode and heating shall be disabled.
 - .1 The supply fan shall be enabled to run continuously at a constant speed.
 - .2 Zone temperature setpoint shall be maintained by modulating supply air temperature.
 - .3 The compressors and condenser fans shall be enabled. Upon a call for more cooling, supply air temperature shall be low and upon a call for less cooling, supply air temperature shall be reset downward.
 - .4 A return air humidity sensor, which is installed in the return air duct, shall override the cooling sequence to maintain the return air humidity setpoint @ 50% RH (adj).
 - .5 When the return air humidity exceeds the associated setpoint with 5% (adj), the temperature of air leaving the cooling coil shall be reset downward; the hot gas reheat shall be enabled; the reheat capacity shall be modulated to achieve the return air humidity setpoint.
- Unoccupied Mode**
- .1 Shut down compressors and condenser fans.
 - .2 Shut down supply and relief fans.
 - .3 Close all dampers.
 - .4 Heating during the unoccupied hours:
 - .1 Activate heating when the zone temperature is below 18°C (adj).
 - .1 The supply fan shall be enabled to run continuously at a constant speed.
 - .2 The gas heating shall be enabled. Upon a call for more heating, supply air temperature shall be high and upon a call for less heating, supply air temperature shall be reset downward.
 - .3 Position the economizer dampers at 100% recirculated air and close outdoor air damper.
 - .2 Deactivate heating when the zone temperature exceeds 22°C (adj).
- 7 Heating Mode (zone temperature setpoint = 22°C db (adj)); When zone temperature drops below heating setpoint with 1.5°C (adj), unit control shall be indexed to Heating Mode and cooling mode shall be disabled.**
- .1 The supply fan shall be enabled to run continuously at a constant speed.
 - .2 Zone temperature setpoint shall be maintained by modulating supply air temperature.
 - .3 The gas heating shall be enabled. Upon a call for more heating, supply air temperature shall be high and upon a call for less heating, supply air temperature shall be reset downward.
- 8 Demand Controlled Ventilation (DCV) and Direct Outdoor Airflow Measurement Device**
- .1 The DCV is used and an outdoor airflow measuring station is installed to reduce the amount of outdoor air being conditioned while still maintaining acceptable indoor air quality.

Note: The outdoor airflow measuring station will be installed within the rooftop unit downstream of the outdoor air damper.
 - .2 The BAS shall continuously monitor and compare the space CO2 readings and the outside CO2 levels to determine the outdoor airflow setpoint in accordance with ASHRAE Standard 62-2010 Appendix C.

Note: The outside CO2 sensor will be installed in the outdoor air intake hood. Outdoor air damper and recirculated air damper shall be modulated in sequence to maintain the outdoor airflow setpoint.
 - .3 Deadband: When the zone temperature is within the deadband between the space cooling and heating setpoints, the supply air conditions shall remain in control from the last mode.

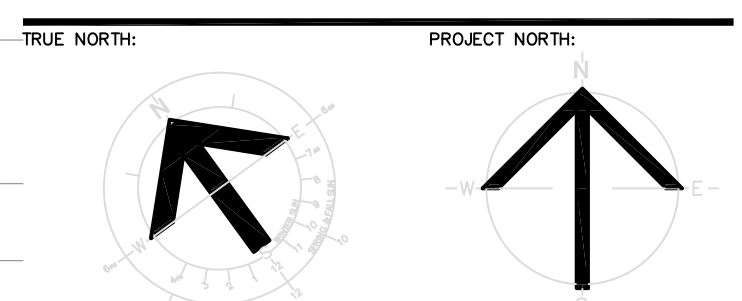
GENERAL NOTES

1. CONTROLS WORK SHALL BE PERFORMED BY LAR - MEX. CONTACT PHILIPPE LEMIEUX (613-747-1563 ext. 228) FOR PRICING.
2. LAR - MEX SHALL PROVIDE ANY REQUIRED CONTROLLERS, FIELD CONTROL DEVICES, CONTROL WIRING, ETC. TO IMPLEMENT SEQUENCING OF OPERATION AS NOTED ON THIS DRAWING.

RECORD OF REVISIONS:	
ISSUED TENDER	04/10/2018
ISSUED FOR BUILDING PERMIT AND TENDER	05/02/2018
ISSUED FOR 90% REVIEW	04/20/2018
ISSUED FOR REVIEW	03/29/2018
NUMBER: REVISION:	DATE: (MM/DD/YY)
PROFESSIONAL STAMP:	PROFESSIONAL STAMP:



STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
ÉCOLE LE PRÉLUDE
MUSIC ROOM
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

**PARTIAL GROUND FLOOR PLAN
CONTROLS LAYOUT
NEW WORK**

DRAWN BY:	T. ARMSTRONG	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	M.S.M.		
APPROVED BY:	M.S.M.		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-01		
CLIENT PROJECT #:		CIVPROJECT #:	1553

SPECIFICATIONS

1. **GENERAL**
- CONFORM TO REQUIREMENTS OF THE GENERAL CONDITIONS. PROVIDE ALL LABOUR, MATERIALS, PRODUCTS, EQUIPMENT, SERVICES AND ALL INCIDENTALS REQUIRED TO COMPLETE. TEST AND COMMISSION ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS AND/OR NOTED HEREUNDER. ELECTRICAL WORK SHALL BE CARRIED OUT BY A CONTRACTOR HOLDING A VALID CONTRACTORS LICENSE AND QUALIFIED ELECTRICIANS WHO HOLD VALID ONTARIO CERTIFICATES OF QUALIFICATION.
2. **CODES AND STANDARDS**
- DO COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING BUT NOT NECESSARILY LIMITED TO: CURRENT ELECTRICAL CODE CSA C22.1, PERTINENT ESA (ELECTRICAL SAFETY AUTHORITY) BULLETINS AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
3. **PERMITS AND FEES**
- OBTAIN PERMITS NECESSARY FOR THE EXECUTION OF THE ELECTRICAL WORK. ON COMPLETION OF THE WORK FURNISH COPIES OF THE CERTIFICATES OF ACCEPTANCE FROM THE INSPECTION AUTHORITY AND PERTINENT AUTHORITIES HAVING JURISDICTION. PAY ALL ASSOCIATED COSTS AND FEES, INCLUDING ANY PREMIUMS APPLICABLE DUE TO REQUIREMENTS FOR "AFTER OFFICE HOURS" INSPECTIONS.
4. **SITE VISIT**
- ACQUIRE FULL WORKING KNOWLEDGE OF BUILDING SITE AND ANY EXISTING CONDITIONS, WHICH MAY AFFECT THE WORK. VISIT SITE PRIOR TO TENDER SUBMISSION.
5. **CONTRACT DRAWINGS**
- CONTRACT DRAWINGS FOR ELECTRICAL WORK, ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. BEFORE INSTALLATION, VERIFY THE PHYSICAL LOCATION OF ALL ELECTRICAL EQUIPMENT WITH ALL OTHER INSTALLATIONS AND REPORT ANY OBSTRUCTIONS OR INTERFERENCES. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS VERIFICATION WILL BE CONSIDERED. DRAWINGS INDICATE THE GENERAL LAYOUT OF THE COMPLETE ELECTRICAL SYSTEM ARRANGEMENT OF FEEDERS, CIRCUITS, OUTLETS, SWITCHES, CONTROLS, PANELBOARDS, FIXTURES AND OTHER WORK. THE DRAWINGS INDICATE THE GENERAL LOCATION AND ROUTES TO BE FOLLOWED, BUT DO NOT SHOW ALL CONDUIT AND/OR WIRING OR ALL THE STRUCTURAL, MECHANICAL AND ARCHITECTURAL DETAILS. PLAN AND INSTALL CONDUIT RUNS RESPECTING ALL APPLICABLE CONDITIONS INCLUDING STRUCTURAL, ARCHITECTURAL AND MECHANICAL DETAILS. BRING OBVIOUS DISCREPANCIES OR OMISSIONS TO THE ATTENTION OF THE CONSULTANT DURING THE TENDER PERIOD, AT LEAST FIVE WORKING DAYS PRIOR TO TENDER CLOSING.
6. **EXISTING SERVICES**
- GIVE THE OWNER AMPLI NOTICE OF EACH NECESSARY INTERRUPTION OF ELECTRICAL SERVICE DURING THE COURSE OF THE WORK. UNAVOIDABLE INTERRUPTIONS TO EXISTING SYSTEMS INSTALLATIONS, IF ANY, SHALL BE OF THE SHORTEST POSSIBLE DURATION AND EACH SUCH INTERRUPTION SHALL REQUIRE THE SPECIFIC APPROVAL OF THE OWNER. SUBMIT A SCHEDULE OF ALL ANTICIPATED INTERRUPTIONS, IDENTIFYING EXACTLY WHAT THE INTERRUPTION IS, HOW LONG IT WILL BE, WHEN IT IS PLANNED TO OCCUR AND WHICH AREAS WILL BE AFFECTED. GIVE THE OWNER A MINIMUM OF TWO WEEKS NOTICE RELATED TO EACH NECESSARY INTERRUPTION. THE OWNER RESERVES THE RIGHT TO DENY APPROVAL FOR AN INTERRUPTION ON ANY SPECIFIC DATE OR TIME. IN THIS CASE AN ALTERNATIVE TIME SHALL BE MUTUALLY SELECTED.
7. **DEMOLITION**
- REFER TO DEMOLITION NOTES ON DRAWINGS. RENDER SAFE THE INSTALLATIONS AT LOCATIONS FROM WHICH THE EXISTING INSTALLATIONS AND EQUIPMENT HAS BEEN REMOVED AS PART OF THIS WORK.
- REMOVE FROM THE SITE ALL EXISTING EQUIPMENT AND MATERIALS, WHICH BECOMES OBSOLETE AS A RESULT OF THIS WORK EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
8. **SHOP DRAWINGS**
- SUBMIT ONE (1) COPY OF SHOP DRAWINGS IN PDF FORMAT TO THE CONSULTANT FOR REVIEW. REVIEW OF SHOP DRAWINGS INDICATES ONLY THAT THE QUALITY AND GENERAL DESIGN OF THE EQUIPMENT IS ACCEPTABLE. VERIFICATION OF DETAILED DESIGN COMPLIANCE, DIMENSIONS AND QUANTITIES, OR THE LOCATION OF CONNECTIONS TO EQUIPMENT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SHOW DETAILS OF CONSTRUCTION, DIMENSIONS, CAPACITIES, WEIGHTS, ALL ELECTRICAL DATA AND PERFORMANCE CHARACTERISTICS, ON SHOP DRAWINGS. ALL WIRING DIAGRAMS, CONTROL, SCHEMATICS AND DESCRIPTIONS OF OPERATION MUST ALSO BE INCLUDED. SUBMIT SHOP DRAWINGS FOR POWER DISTRIBUTION EQUIPMENT INCLUDING PANELBOARDS, BREAKERS, RECEPTACLES, MINERAL INSULATED CABLES, SWITCHES, ETC., LIGHTING FIXTURES WITH COMPLETE INFORMATION ON DIMENSIONS, WEIGHTS, ETC., PHOTOGRAPHIC DATA, LAMPS, BALLASTS, VOLTAGE, SOUND RATINGS AND INTERNAL WIRING DIAGRAMS. FIRE ALARM EQUIPMENT AS WELL AS DETAILS OF INTERCONNECTING WIRING.
9. **APPROVAL OF ALTERNATIVES**
1. MANUFACTURER'S NAMES AND MODEL NUMBERS OF EQUIPMENT INCLUDED IN THE SPECIFICATIONS ARE CONSIDERED ACCEPTABLE.
2. MANUFACTURERS, THEIR AGENTS, OR CONTRACTORS WISHING ALTERNATIVE PRODUCTS TO BE CONSIDERED FOR ACCEPTANCE SHALL SUBMIT WRITTEN APPLICATIONS TO THE ENGINEER AT LEAST NINE (9) WORKING DAYS PRIOR TO TENDER CLOSING DATE.
3. ACCEPTANCE OF ALTERNATIVES DOES NOT ABSOLVE THIS CONTRACTOR FROM MAKING ALL NECESSARY ADJUSTMENTS TO THE WORK OF OTHER TRADES INCURRED BY SELECTION OF ALTERNATIVE EQUIPMENT OR MATERIALS. SUCH ADJUSTMENTS ARE TO BE MADE AT NO ADDITIONAL COST.
10. **OPERATION AND MAINTENANCE MANUAL**
- SUBMIT A DRAFT ELECTRONIC FORMAT (PDF) COPY OF OPERATION AND MAINTENANCE MANUAL TO ENGINEER FOR APPROVAL. O&M MANUAL SHALL INCLUDE BUT NOT LIMITED TO:
- TITLE PAGE
 - LETTER OF WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION
 - SHOP DRAWINGS AND STAMPED CONSULTANTS ACCEPTED REVIEWED
 - OPERATION AND MAINTENANCE DATA SHALL FOR ALL ELECTRICAL SYSTEMS AND OR DEVICES SUFFICIENTLY DETAILED WITH RESPECT TO DESIGN ELEMENTS, OPERATIONAL PROCEDURES, TECHNICAL DATA, CONSTRUCTION FEATURES, COMPONENT FUNCTIONS AND MAINTENANCE REQUIREMENTS TO PERMIT EFFECTIVE START UP, OPERATION, MAINTENANCE, REPAIR, MODIFICATION, EXTENSION AND EXPANSION OF ANY PORTION OF THE SYSTEM.
 - ALL TESTING AND COMMISSIONING RESULTS, START-UP, SHUT DOWN AND EMERGENCY PROCEDURES FOR EQUIPMENT INSTALLED AND CERTIFICATE OF ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION
 - APPROPRIATE WIRING DIAGRAMS, SCHEMATICS, ELEVATIONS, MOUNTING REQUIREMENTS, AS IT PERTAINS TO EACH SYSTEM AND/OR DEVICE
 - EQUIPMENT OPERATION, INCLUDE NAMEPLATE INFORMATION MAKE, SIZE, CAPACITY AND SERIAL NUMBER
 - ESA INSPECTION REPORTS
 - FIRE ALARM TEST AND VERIFICATION REPORT, INCLUDING AUDIBILITY TESTING AS PER FIRE ALARM SPECIFICATION
- FAILURE TO SUBMIT MANUALS SPECIFIED, WILL INCUR ADDITIONAL 10% HOLDBACK AGAINST PROGRESS PAYMENTS. SUBMIT THREE (3) HARD COPIES WITHIN FOUR (4) WEEKS OF ACCEPTANCE OF DRAFT MANUALS TO OWNER.

11. **AS-BUILT DRAWINGS**
- ELECTRICAL CONTRACTOR SHALL MARK ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR ON A RECORD SET OF CONTRACT DOCUMENTS. CHANGES SHALL REPRESENT WORK AS ACTUALLY INSTALLED. USE DIFFERENT COLOUR WATERPROOF INK FOR EACH SERVICE. DRAWING SET SHALL BE AVAILABLE FOR REFERENCE PURPOSES AND INSPECTION AT ALL TIMES. EACH DRAWING SHALL BE IDENTIFIED IN TITLE BLOCK ON RIGHT HAND SIDE AS-BUILT DRAWINGS. THIS DRAWING HAS BEEN REVISIONED. INCLUDE SIGNATURE OF CONTRACTOR AND DATE.
- SUBMIT HARD COPY TO ENGINEER FOR APPROVAL AND MAKE CORRECTIONS AS DIRECTED. FOLLOWING APPROVAL, SUBMIT COMPLETED HARD COPY AS-BUILT DRAWINGS TO ENGINEER, INCLUDE A COLOURED HARD COPY OF AS-BUILTS WITH OPERATING AND MAINTENANCE MANUALS.
12. **GUARANTEES AND WARRANTIES**
- PRIOR TO SUBSTANTIAL COMPLETION OF WORK COLLECT ALL MANUFACTURER'S GUARANTEES AND WARRANTIES AND SUBMIT TO ENGINEER. ELECTRICAL CONTRACTOR TO SUBMIT SIGNED GUARANTEE STATING THAT ALL SYSTEMS AND COMPONENTS HAVE BEEN INSTALLED TO MANUFACTURERS RECOMMENDATIONS AND THAT SYSTEMS ARE OPERATING IN ACCORDANCE WITH DESIGN REQUIREMENTS, AND ALL MATERIAL AND LABOUR DEFICIENCIES WILL BE CORRECTED, AT NO COST, FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION.
13. **PROTECTION**
- TAKE PRECAUTIONS TO PROTECT THE OCCUPANTS AND PERSONNEL FROM INJURY DUE TO LIVE CIRCUITS. PROTECT ALL FINISHED AND UNFINISHED WORK FROM DAMAGE DUE TO CARRYING OUT OF THIS WORK. ALSO PROVIDE FULL STOP PROTECTION DURING CONSTRUCTION. KEEP EQUIPMENT DRY AND CLEAN AT ALL TIMES. PROTECT ALSO ALL EXISTING SERVICES TO REMAIN IN AND AROUND THE AREAS OF RENOVATION.
14. **CUTTING AND PATCHING**
- ARRANGE FOR THE GENERAL CONTRACTOR TO DO ALL CUTTING/CORE DRILLING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATIONS. BEFORE CARRYING OUT ANY CUTTING, OBTAIN WRITTEN APPROVAL FROM THE OWNER.
15. **CLEAN UP AND REPAIR**
- CARRY OUT THE REQUIRED CLEANUP AT THE END OF EACH DAY IN WORK AREAS. REMOVE ALL TOOLS, EQUIPMENT, LADDERS AND EMPTY CARDBOARD BOXES ETC. AND LEAVE THE PREMISES BROOM CLEAN.
- THE ELECTRICAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE TO WALLS, FLOORS, CEILINGS, WOODWORK, FINISHES, ETC. CAUSED DIRECTLY OR INDIRECTLY AS A RESULT OF HIS WORK.
16. **CONDUIT**
- WIRING SHALL BE IN CONDUIT UNLESS SPECIFICALLY INDICATED OTHERWISE. INSTALL EMT THROUGHOUT EXCEPT WHERE SPECIFIED OTHERWISE. CONCEAL CONDUITS/SWAGEWAYS IN ALL AREAS EXCEPT IN MECHANICAL AND ELECTRICAL ROOMS OR WHERE SPECIFICALLY INDICATED OTHERWISE, WHERE WIRING AND CONDUIT CAN NOT BE CONCEALED IN A FINISHED AREA, RUN WIRING IN SURFACE METAL RACEWAY SYSTEM, EQUAL TO "WIREMOLD V2400 & V2400" SERIES. INSTALL CONDUITS PARALLEL TO BUILDING LINES. INSTALL POLYPROPYLENE, MINIMUM 180 KG, FULL STRENGTH PULL CORDS IN EMPTY RACEWAYS AND FASTEN CORDS AT EACH END. INSTALL MINIMUM 600MM AND MAXIMUM 1000MM LENGTH OF FLEXIBLE GALVANIZED STEEL CONDUIT FOR CONNECTIONS TO EQUIPMENT THAT MAY VIBRATE (SUCH AS EQUIPMENT WITH MOTORS), AND TO EQUIPMENT NOT PERMANENTLY FIXED OR WHICH MUST BE MOVED FOR SERVICING. LOCATE CONDUIT AND BOXES OFF STRUCTURAL STEEL TO ALLOW FOR SPRAY FIRE PROOFING APPLICATION.
17. **WIRING**
- TYPE RW 90 COPPER, 600V, XLPE INSULATION. SOLID CONDUCTORS TO #10 AWG, STRANDED CONDUCTORS #8 AWG AND LARGER. TYPE RW 90 COPPER, 1000V, XLPE INSULATION FOR FEEDERS AT 600V OPERATING VOLTAGE. MINIMUM BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG EXCEPT FOR 120V CONTROL CIRCUITS. MINIMUM SIZE OF WIRE SHALL BE #14 AWG. WIRING FOR BRANCH CIRCUITS SHALL BE SIZED TO LIMIT THE VOLTAGE DROP FROM THE PANELBOARD TO THE FARTHEST OUTLET TO 3% WHEN CARRYING 80% OF THE BRANCH CIRCUIT BREAKER RATED CURRENT. TWIST ON PRESSURE, TYPE WIRE CONNECTORS FOR #10 AND SMALLER AND SPLIT BOLT TYPE FOR #8 AND LARGER. TYPE AC 90 WIRING WILL BE PERMITTED FROM CONDUIT SYSTEM JUNCTION BOXES TO RECESSED LIGHTING FIXTURES IN SUSPENDED ACCESSIBLE CEILINGS AND DRYWALL CEILINGS, AND TO WIRING DEVICES IN STUD PARTITIONS, MAXIMUM 10M LENGTH. LOOPING FROM FIXTURE TO FIXTURE IS ACCEPTABLE. TYPE AC 90 WIRING SHALL NOT BE USED FOR ANY OTHER APPLICATION.
18. **FASTENING AND SUPPORTS**
- USE LEAD ANCHORS TO SECURE EQUIPMENT TO SOLID MASONRY, TILE AND PLASTER SURFACES. USE EXPANDABLE INSERTS TO SECURE EQUIPMENT TO Poured CONCRETE. USE TOGGLE BOLTS TO SECURE EQUIPMENT TO HOLLOW MASONRY WALLS OR SUSPENDED CEILINGS.
- SUPPORT GROUPS OF CONDUITS AND CABLES, AND EQUIPMENT ON 41MM X 41MM X 2.5MM THICK GALVANIZED CHANNELS EQUAL TO UNISTRUT P SERIES, USING CLIPS, SPRING LOADED BOLT, CABLE CLAMPS AND THE LIKE, DESIGNED AS ACCESSORIES TO BASIC CHANNEL EMBERS. FOR SURFACE MOUNTING OF TWO OR MORE CONDUITS USE CHANNELS AT 15M OR LESS OC SPACING.
19. **GROUNDING**
- GROUND ALL EQUIPMENT WITH APPROVED FITTINGS AND GROUND CONDUCTORS OF AMPLE CAPACITY AS REQUIRED BY GROUNDING TO ONTARIO ELECTRICAL SAFETY CODE, CSA STANDARD C22.1. INSTALL COMPLETE PERMANENT, CONTINUOUS, SYSTEM AND CIRCUIT, EQUIPMENT, GROUNDING SYSTEMS INCLUDING ELECTRODES, CONDUCTORS, CONNECTORS, ACCESSORIES, AS INDICATED, TO CONFORM TO REQUIREMENTS OF CONSULTANT, AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION. GROUND WIRES SHALL BE INSTALLED FOR ALL BRANCH CIRCUITS AND MOTOR CIRCUITS BY RUNNING THE GROUND WIRES IN THE SAME CONDUIT AS FOLLOWS:
- FOR BRANCH CIRCUITS USING SHARED NEUTRALS, INSTALL ONE GROUND WIRE PER NEUTRAL.
 - FOR CIRCUITS USING INDIVIDUAL NEUTRALS FOR EACH CIRCUIT, USE ONE GROUND WIRE PER CIRCUIT.
- MINIMUM SIZE OF GROUND WIRE TO BE #12 AWG COPPER. INSTALL CONTINUOUS GROUNDING CONDUCTORS THROUGH ALL CONDUITS/SWAGEWAYS FOR SYSTEMS OPERATING ABOVE 50 VOLTS (DO NOT USE CONDUIT AS GROUND), BOND AT EACH BOX AND DEVICE. GROUND ALL METALLIC RACEWAYS FOR SYSTEMS, I.E. FIRE ALARM, ETC.
20. **FIREPROOF PATCHING**
- WHERE CONDUITS OR SINGLE CONDUCTOR CABLES OR CABLE TRAYS PASS THROUGH FIRE RATED FLOOR SLABS, FIRE RATED CEILINGS OR FIRE RATED WALLS, SEAL OPENING AROUND SAME TO MAINTAIN FIRE SEPARATION USING 3M "FIRE BARRIER SEALANT CP 25WB" OR APPROVED ULC RATED EQUIVALENT.
21. **EQUIPMENT IDENTIFICATION**
- IDENTIFY ALL ELECTRICAL EQUIPMENT USING SUITABLY SIZED LAMACOD NAMEPLATES, INCLUDING BUT NOT LIMITED TO GENERATORS, AUTOMATIC TRANSFER SWITCHES, SWITCHBOARDS, SPLITTER TROUSERS, PANELBOARDS, STARTERS, CONTACTORS, DISCONNECT SWITCHES, TIMECLOCKS, TRANSFORMERS AND METER CENTRES. LAMACOD NAMEPLATES TO BE 2MM THICK WITH BLACK PLASTIC FACE AND WHITE CORE. SCREW FASTEN OR POP RIVET TO EQUIPMENT.

22. **WIRING IDENTIFICATION**
- IDENTIFY WIRING WITH PERMANENT INDELIBLE IDENTIFYING MARKINGS EITHER NUMBERED OR COLOURED PLASTIC TAPES, ON BOTH ENDS OF PHASE CONNECTORS OF FEEDERS AND BRANCH CIRCUIT WIRING. COLOUR CODE: TO CSA C22.1.
23. **CONDUIT AND CABLE IDENTIFICATION**
- COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES. FOR BOXES, IDENTIFY THE COVER AS WELL AS INSIDE EACH BOX. FOLLOW BASE BUILDING SYSTEM OF IDENTIFICATION, OTHERWISE AGREE ON IDENTIFICATION SYSTEM WITH THE CONSULTANT.
24. **LOCATION OF OUTLETS**
- CHANGE LOCATION OF OUTLETS AT NO EXTRA COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3000MM, AND INFORMATION IS GIVEN BEFORE INSTALLATION.
25. **MATERIALS AND EQUIPMENT**
- EQUIPMENT AND MATERIAL SUPPLIED AS PART OF THE ELECTRICAL WORK SHALL BE NEW AND CERTIFIED TO APPLICABLE CSA STANDARDS FOR THE APPLICATION.
26. **PANELBOARDS**
- 600 AND 250V PANELBOARD: TIN PLATED COPPER MAINS BUS, NUMBER OF CIRCUITS, NUMBER AND SIZE OF BOLT-ON BRANCH CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. 3 PHASE - WIRE PANELBOARDS COMPLETE WITH GROUND BUS AND 100% RATED NEUTRAL. TRM WITH CONCEALED FRONT BOLTS AND HINGES. TRM AND DOOR MINIMUM 12 GAUGE, AND FINISHED BAKED GREY ENAMEL. TWO KEYS FOR EACH PANELBOARD. MINIMUM SYMMETRICAL INTERRUPTING RATING FOR 208V PANELS 10,000A RMS, MINIMUM SYMMETRICAL INTERRUPTING RATING FOR 600V PANELS 14,000A RMS.
27. **MOULDLED CASE BREAKERS**
- BOLT ON MOULDED CASE CIRCUIT BREAKERS: QUICK MAKE, QUICK BREAK TYPE, FOR MANUAL AND AUTOMATIC OPERATION WITH TEMPERATURE COMPENSATION FOR 40°C AMBIENT. COMMON TRIP BREAKERS. WITH SINGLE HANDLE FOR MULTI POLE APPLICATIONS. MOULDED CASE CIRCUIT BREAKER TO OPERATE AUTOMATICALLY BY MEANS OF THERMAL AND MAGNETIC TRIPPING DEVICES TO PROVIDE INVERSE TIME CURRENT TRIPPING AND INSTANTANEOUS TRIPPING FOR SHORT CIRCUIT PROTECTION.
28. **MOUNTING HEIGHTS**
- MOUNTING HEIGHT OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTRELINE OF EQUIPMENT UNLESS SPECIFIED OR INDICATED OTHERWISE. IF MOUNTING HEIGHT IS NOT INDICATED, VERIFY WITH THE ENGINEER BEFORE PROCEEDING WITH INSTALLATION. INSTALL ELECTRICAL EQUIPMENT AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR (AFF), OVER COUNTER (OC) OR UNDER COUNTER (UC) UNLESS INDICATED OTHERWISE.
- TOP OF PANELBOARD 200MM (6-6/8) OR AS SPECIFIED BY APPLICABLE CODES
 - SWITCHES SHALL BE MOUNTED AT 1700MM (5'6")
 - WALL RECEPTACLES, VOICE DATA AND TV OUTLETS: 300MM (1'2") TO BOTTOM OF BOX
 - WALL RECEPTACLES ABOVE COUNTERS OR SPLASH BACK: 150MM (6") ABOVE COUNTER TOP/SPLASH BACK
 - WALL RECEPTACLES UNDER COUNTERS: 150MM (6") BELOW COUNTER
 - WALL RECEPTACLES LOCATED IN MECHANICAL ROOM: 1200MM (4'0")
 - WALL RECEPTACLES LOCATED ABOVE CONTINUOUS RADIANT HEATER SHALL BE MOUNTED AT 200MM (8") ABOVE TOP OF HEATER
 - WALL MOUNTED TELEPHONE OUTLETS SHALL BE MOUNTED AT 1500MM (4'9")
 - FIRE ALARM PULL STATION: 1200MM
 - FIRE ALARM WALL MOUNTED BELLHORN/STROBE: 2400MM A.F.F. TO TOP OF DEVICE WHEN CEILING HEIGHT ALLOWED.
 - ELECTRIC FORCE/FLOW HEATERS: 102MM A.F.F. TO BOTTOM OF DEVICE UNLESS SPECIFIED OTHERWISE.
 - THERMOSTATS: 1200MM
 - DOOR BELL PUSHBUTTONS: 1100MM
 - WALL MOUNTED SPEAKERS: 2100MM
 - ELECTRICAL ROUGH-IN FOR OWNER SUPPLIED EQUIPMENT TO BE COORDINATED WITH OWNER OR EQUIPMENT SUPPLIER.
29. **RECEPTACLES**
- COMMERCIAL SPECIFICATION GRADE. STANDARD OF ACCEPTANCE HUBBELL "CS2520", AND EQUIVALENT PRODUCTS OF HUBBELL IN OTHER CONFIGURATIONS. RECEPTACLE COLOURS TO BE WHITE EXCEPT THAT THE "HOUSEKEEPING" RECEPTACLES SHALL BE GREY.
30. **LIGHTING FIXTURES**
- PROVIDE LIGHTING FIXTURES COMPLETE WITH LAMPS OR LEDS AS INDICATED IN LIGHTING SCHEDULE. ALL FIXTURES LISTED IN LIGHTING SCHEDULE ARE RANGES OF DESIGN AND DEEMED ACCEPTABLE. ALTERNATE PRODUCTS WILL BE CONSIDERED PROVIDED INFORMATION SUBMITTED IN ACCORDANCE WITH SECTION 9 APPROVAL OF ALTERNATES. FIXTURES SHALL BE COMPLETE WITH BALLASTS OR ELECTRONIC DRIVERS AND NECESSARY LENSES AND ACCESSORIES TO BE FACTORY ASSEMBLED FOR INSTALLATION, WIRING AND LAMPING. RECESSED FIXTURES SHALL BE COMPLETE WITH TRM TYPE REQUIRED FOR CEILING SYSTEM INSTALLED. RECESSED FIXTURES SHALL BE PRE-WIRED TYPE WITH JUNCTION BOX FORMING AN INTEGRAL PART OF THE ASSEMBLY WITH SATISFACTORY ACCESS COMPLETE WITH NECESSARY PLASTER RINGS, SUPPORTS, ETC. REQUIRED.
31. **SWITCHES**
- STANDARD COMMERCIAL SPECIFICATION GRADE. 15A OR 20A, 120V, SINGLE POLE, 3 WAY OR 4 WAY AS INDICATED. STANDARD OF ACCEPTANCE: HUBBELL "CS1201T" AND EQUIVALENT PRODUCTS OF HUBBELL IN OTHER VOLTAGES AND CONFIGURATIONS.
 - MOTION SENSOR SWITCH: WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR UTILIZING PIR AND MICROPHONIC DETECTION TECHNOLOGY COMPLETE WITH VANDAL RESISTANT LENS. SWITCH SHALL BE CONFIGURED IN DEFAULT MODE WHICH SHALL INCLUDE AUTOMATIC DETECTION MODE UTILIZING BOTH TECHNOLOGIES, TO DELAY AND PREDICTIVE OFF MODE. CEILING MOUNTED EXTENDED RANGE 360° CEILING MOUNT LINE VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR UTILIZING PIR AND MICROPHONIC DETECTION TECHNOLOGY. SWITCH SHALL BE CONFIGURED IN DEFAULT MODE WHICH SHALL INCLUDE AUTOMATIC DETECTION MODE UTILIZING BOTH TECHNOLOGIES, TO DELAY AND PREDICTIVE OFF MODE.
 - DIMMER SWITCHES: INCANDESCENT TYPE, 120V, 600W, 1000W, OR 1500W AS REQUIRED. SLIDE CONTROL, WHITE COLOUR, RF SUPPRESSION. STANDARD OF ACCEPTANCE: LUTRON NOVA SERIES.
32. **COVERPLATES**
- BRUSHED FINISH STAINLESS STEEL TYPE 301, MINIMUM 1MM THICK, CHROME PLATED SCREWS.

33. **DISCONNECT SWITCHES**
- HEAVY DUTY DISCONNECT SWITCHES, EEMAC 1 IN DRY LOCATIONS, EEMAC 3 IN DAMP LOCATIONS, QUICK-MAKE/QUICK-BREAK MECHANISMS, VISIBLE BLADES, ARC QUENCHER FOR SWITCHES RATED 600V, MECHANICALLY INTERLOCKED COVER TO PREVENT OPENING IN "ON" POSITION, EXCEPT BY DEFEAT MECHANISM. ON-OFF SWITCH POSITION INDICATION ON SWITCH ENCLOSURE COVER. PROVISION FOR PADLOCKING IN BOTH "ON" AND "OFF" POSITIONS. IIRC FUSEHEADERS SIZE AS INDICATED.
34. **CONDUIT SYSTEMS FOR INTERCOM, TELEPHONE, DATA AND CATV SYSTEMS**
- PROVIDE COMPLETE SYSTEM OF BACKBONES, EMPTY CONDUITS, OUTLET BOXES, JUNCTION BOXES AND BACKBOXES, AS INDICATED ON DRAWINGS. PROVIDE CONDUIT FROM WALL MOUNTED OUTLET BOXES TO ACCESSIBLE CEILING SPACE. PROVIDE POLYPROPYLENE PULL ROPE, 180 KG PULL STRENGTH, IN EVERY EMPTY CONDUIT.
- SIZE OF CONDUITS SHALL BE AS FOLLOWS:
- | NUMBER OF DATA CABLES | SIZE OF CONDUIT |
|-----------------------|-----------------|
| 1 TO 3 | 20MM |
| 4 TO 6 | 27MM |
| 7 TO 10 | 35MM |
| 11 TO 15 | 41MM |
| 16 TO 20 | 53MM |
35. **EXIT SIGNS**
- EXIT SIGNS SHALL BE CSA-C860 CERTIFIED LED TYPE EXIT SIGNS IN ONE PIECE EXTRUDED ALUMINUM HOUSING. FINISH TO BE CONFIRMED WITH THE ARCHITECT BEFORE ORDERING. ALLOW FOR WHITE BAKED EPOXY FINISH, SINGLE FACE OR DOUBLE FACE AND DIRECTIONAL CHEVRONS, AS REQUIRED AND AS INDICATED ON DRAWINGS. CEILING, WALL OR END WALL MOUNTING AS REQUIRED AND AS INDICATED ON DRAWINGS. GREEN ON WHITE RUNNING MAIN PHOTOGRAM. SELF CONTAINED MODULE WITH ALL ELECTRONIC POWER COMPONENTS AND LED SOURCES. POWER CONSUMPTION NOT EXCEEDING 2 WATTS. LEADS TO PROVIDE EVEN ILLUMINATION. LEADS MUST HAVE LONG LIFE WITH A GUARANTEE OF MINIMUM OF TEN (10) YEARS. REFER TO LUMINAIRE SCHEDULE ON DRAWING FOR TYPES AND DESCRIPTIONS OF EXIT SIGNS.
- INSTALL EXIT LIGHTS AS INDICATED IN ACCORDANCE WITH OBC REQUIREMENTS. MOUNT EXIT LIGHTS ON CEILING OR WALL WITH DIRECTION RUNNING MAIN PHOTOGRAM ARMED AS INDICATED. CONNECT FIXTURES TO EXIT LIGHT CIRCUITS AS INDICATED.
36. **TESTING AND COMMISSIONING OF GENERAL ELECTRICAL INSTALLATIONS**
- INSPECT, TEST AND COMMISSION ALL EQUIPMENT AND SYSTEMS PROVIDED UNDER THIS CONTRACT TO DEMONSTRATE AND VERIFY CORRECT OPERATION. REPAIR AND REPLACE, AT NO COST TO THE OWNER, ANY FAULTY EQUIPMENT AND RECTIFY ANY FAULTY OPERATION, PRIOR TO ENERGIZING. MEGGER ALL FEEDERS USING A 500V INSTRUMENT FOR UP TO 347V SYSTEMS, AND RECORD RESULTS ON APPROVED VERIFICATION FORMS. CHECK INSULATION RESISTANCE TO GROUND BEFORE ENERGIZING. PERFORM GROUND CONTINUITY AND RESISTANCE TESTS USING METHOD APPROPRIATE TO SITE CONDITIONS AND TO APPROVAL OF CONSULTANT AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION. INSPECT, TEST AND COMMISSION ALL LIGHTING FIXTURES, LIGHTING COMPONENTS E.G. BALLASTS, LAMPS, ETC., RELATED SWITCHING AND OPERATION OF EMERGENCY AND EXIT LIGHTS.
- NEW AND RELOCATED FIRE ALARM DEVICES AND EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH CANULC-5537, STANDARD FOR VERIFICATION OF FIRE ALARM SYSTEM INSTALLATIONS AND WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
37. **FIRE ALARM**
- VERIFY THAT THE INSTALLATION OF THE FIRE ALARM SYSTEMS (IN THE RENOVATED AREA AND IMMEDIATE ADJOINING AREAS AFFECTED BY THE RENOVATION) COMPLIES WITH CANULC-5537, STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS. CHECK WIRING IS PROPERLY TERMINATED AND IDENTIFIED.

- IN CONJUNCTION WITH THE MANUFACTURER TEST AND VERIFY THE FIRE ALARM SYSTEM IN ACCORDANCE WITH CANULC-5537, STANDARD FOR VERIFICATION OF FIRE ALARM SYSTEM INSTALLATIONS AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. ARRANGE FOR AUTHORITIES HAVING JURISDICTION TO WITNESS AND APPROVE TESTING OF THE FIRE ALARM SYSTEM. PREPARE, COMPLETE, SIGN AND SUBMIT A DETAILED VERIFICATION REPORT.
- AUDIBILITY TESTING SHALL BE PERFORMED (IN THE RENOVATED AREA AND IMMEDIATE ADJOINING AREAS AFFECTED BY THE RENOVATION) TO ENSURE THAT ALL AREAS COMPLY WITH THE AUDIBILITY REQUIREMENTS DEFINED BY THE ONTARIO BUILDING CODE AND/OR AUTHORITIES HAVING JURISDICTION. ALL AREAS THAT DO NOT MEET THE AUDIBILITY REQUIREMENTS SHALL BE IDENTIFIED TO THE ARCHITECT, ENGINEER AND/OR OWNER.
38. **SEISMIC RESTRAINT**
- DESIGN AND CONSTRUCT ELECTRICAL SERVICES AND THEIR FASTENINGS AND SUPPORTS, INCLUDING, BUT NOT LIMITED TO EQUIPMENT, FIXTURES, RACEWAYS, TO BE IN ACCORDANCE WITH CLAUSE 4.1.3 OF THE 2012 ONTARIO BUILDING CODE WITH AN IMPORTANCE FACTOR, I, AS SPECIFIED IN THE CODE. DESIGN OF STRUCTURAL ELEMENTS, INCLUDING CONNECTIONS, SHALL BE CARRIED OUT BY A STRUCTURAL ENGINEER, ENGAGED BY THE CONTRACTOR AND LICENSED IN THE PROVINCE OF ONTARIO, WHO SHALL SEAL AND SIGN THE DESIGN DRAWINGS. THE SEALED DRAWINGS SHALL BE SUBMITTED ALONG WITH THE ELECTRICAL SHOP DRAWINGS FOR REVIEW. THE STRUCTURAL ENGINEER WHO SEALS THE DRAWINGS SHALL CARRY OUT SUFFICIENT ON-SITE REVIEW OF THE ELECTRICAL WORK TO ENSURE AND TO CERTIFY IN WRITING THAT THE WORK IS IN GENERAL COMPLIANCE WITH THE DESIGN.
39. **CONTROLS**
- ALL WORK SHOWN ON THESE DRAWINGS IS PART OF THE ELECTRICAL SCOPE, INCLUDING CONTROL SYSTEMS.
40. **TERMINATIONS**
- PROVIDE LIQUID-TIGHT FITTINGS AT ALL CONDUIT AND CABLE TERMINATIONS IN A WET LOCATION ENVIRONMENT. ALL CONDUITS AND CABLES SERVING EQUIPMENT RATED NEMA 3R/4X SHALL BE PROVIDED WITH LIQUID-TIGHT FITTINGS.
41. **ELECTRICAL HEATING**
- BASEBOARD HEATERS: VOLTAGE, PHASE AND CAPACITY AS INDICATED. BUILT-IN THERMOSTAT UNLESS INDICATED OTHERWISE. 20 GAUGE TAMPERPROOF ENCLOSURE. STANDARD OF ACCEPTANCE: STELRPO, OUTLET OR DIMPLEX.

CLIENT LOGO



KEYPLAN

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ISSUES/PROBLEMS WHICH MAY OCCUR AS A RESULT OF A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
- WHERE THERE ARE ALLEGED ERRORS, OMISSIONS, INCONSISTENCIES OR AMBIGUITIES PRESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MUST SEEK CLARIFICATION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH RESULT AS A FAILURE TO CONTACT JP2G FOR DIRECTION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

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DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TRADE INTERFERENCES/CONFLICTS TO JP2G FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBTRADES AND SHALL ADDRESS CONSTRUCTION TEAM COORDINATION ITEMS PRIOR TO ISSUING REQUESTS FOR INFORMATION FROM JP2G.

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

IN CONJUNCTION WITH THE MANUFACTURER TEST AND VERIFY THE FIRE ALARM SYSTEM IN ACCORDANCE WITH CANULC-5537, STANDARD FOR VERIFICATION OF FIRE ALARM SYSTEM INSTALLATIONS AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. ARRANGE FOR AUTHORITIES HAVING JURISDICTION TO WITNESS AND APPROVE TESTING OF THE FIRE ALARM SYSTEM. PREPARE, COMPLETE, SIGN AND SUBMIT A DETAILED VERIFICATION REPORT.

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RECORD OF REVISIONS	REVISION	DATE (MM/DD/YY)
	ISSUED TENDER	05/20/2018
	ISSUED FOR BIDDING PERMIT AND TENDER	06/02/2018
	ISSUED FOR RFP REVIEW	04/22/2018
	ISSUED FOR REVIEW	02/02/2018

NUMBER: 05302018 REVISION: DATE: 04/22/2018

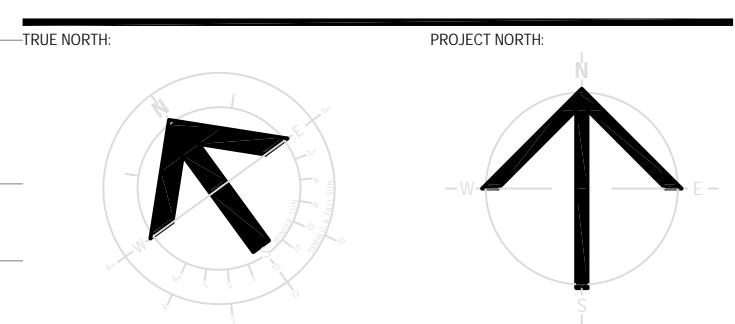
PROFESSIONAL STAMP: PROFESSIONAL STAMP:



STRUCTURAL, MECHANICAL & ELECTRICAL:



1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 8B9
PHONE: 613-828-7900 FAX: 613-828-2000



PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**

6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

SPECIFICATIONS, LEGENDS AND DRAWING LIST

DRAWN BY:	P. SCISSONS	DRAWING NUMBER:
DATE:	2018-05-01	
REVIEWED BY: <th>P. SCISSONS</th> <td></td>	P. SCISSONS	
APPROVED BY: <th>A. DEMMINGS</th> <td></td>	A. DEMMINGS	
PRINT DATE:	5/1/2018	REVISION NUMBER:
SCALE FOR DATE:	TENDER	
CLIENT PROJECT #:	2018-05-01	PROJECT #:
		1553

E-100

ELECTRICAL LEGEND - LIGHTING	
SYMBOL	DESCRIPTION
	2' X 4' CEILING MOUNTED LUMINAIRE. 'L' DENOTES TYPE, 'A' DENOTES SWITCH
	RECESSED MOUNTED LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	SURFACE MOUNTED LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	SUSPENDED MOUNTED LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	4' LONG STRIP LIGHT LUMINAIRE
	WALL MOUNTED LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	RECESSED MOUNTED DOWNLIGHT LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	PENDENT SUSPENDED LUMINAIRE - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	TRACK LIGHTING - SIZE AND TYPE AS PER LUMINAIRE SCHEDULE
	HATCH FIXTURE DENOTES UNSWITCHED
	CEILING MOUNTED EXIT SIGN CW DIRECTIONAL ARROW
	WALL MOUNTED EXIT SIGN
	EMERGENCY LIGHTING BATTERY PACK CW TWO REMOTE HEADS
	EMERGENCY LIGHTING REMOTE HEAD, CEILING MOUNTED: 'Rx' DENOTES TYPE AS PER LUMINAIRE SCHEDULE
	EMERGENCY LIGHTING REMOTE HEAD, WALL MOUNTED: 'Rx' DENOTES TYPE AS PER LUMINAIRE SCHEDULE
	120V, 20A, 1 POLE WALL MOUNTED TOGGLE SWITCH
	120V, 20A WALL MOUNTED TOGGLE SWITCH - 3-WAY
	120V WALL MOUNTED DIMMER SWITCH
	120V WALL MOUNTED OCCUPANCY SENSOR
	120V WALL MOUNTED DIMMING SENSOR
	120V CEILING MOUNTED OCCUPANCY SENSOR
	CORNER MOUNT LONG RANGE OCCUPANCY SENSOR
	ROOM CONTROLLER

ELECTRICAL LEGEND - FIRE ALARM	
SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM PASSIVE GRAPHIC
	FIRE ALARM SMOKE DETECTOR: 'Y' DENOTES RELAY BASE
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM THERMAL DETECTOR - FIXED TEMPERATURE
	FIRE ALARM THERMAL DETECTOR - RATE OF RISE
	FIRE ALARM HORN
	FIRE ALARM COMBINATION HORN / STROBE
	FIRE ALARM MINI-HORN
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM SUPERVISED VALVE
	FIRE ALARM FLOW SWITCH
	FIRE ALARM PRESSURE SWITCH
	FIRE ALARM HOLD OPEN DEVICE
	JOCKEY PUMP

ELECTRICAL LEGEND - POWER DISTRIBUTION	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE 120V, 15A, 1' GROUND
	DUPLEX RECEPTACLE 120V, 15A, 1' GROUND - DEDICATED
	DUPLEX RECEPTACLE WITH INTEGRAL GFI PROTECTION, 120V, 15A, 1' GROUND
	DUPLEX RECEPTACLE 120V, 20A, 1' GROUND</

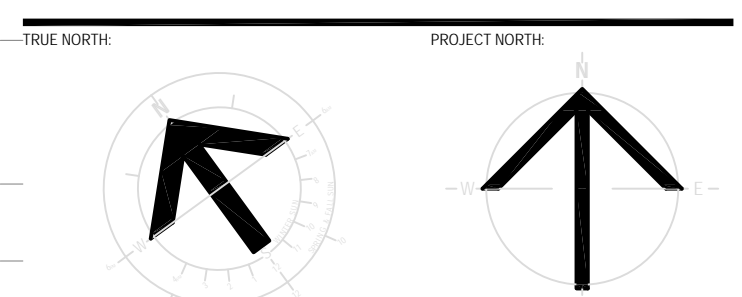
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RECORD OF REVISIONS	NUMBER	REVISION	DATE (MM/DD/YYYY)
ISSUED TENDER			05/02/2018
ISSUED FOR BUILDING PERMIT AND TENDER			06/02/2018
ISSUED FOR RFP REVIEW			04/02/2018
ISSUED FOR REVIEW			03/20/2018

PROFESSIONAL STAMP



STRUCTURAL, MECHANICAL & ELECTRICAL



PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:

KEYPLAN AND SCHEDULES

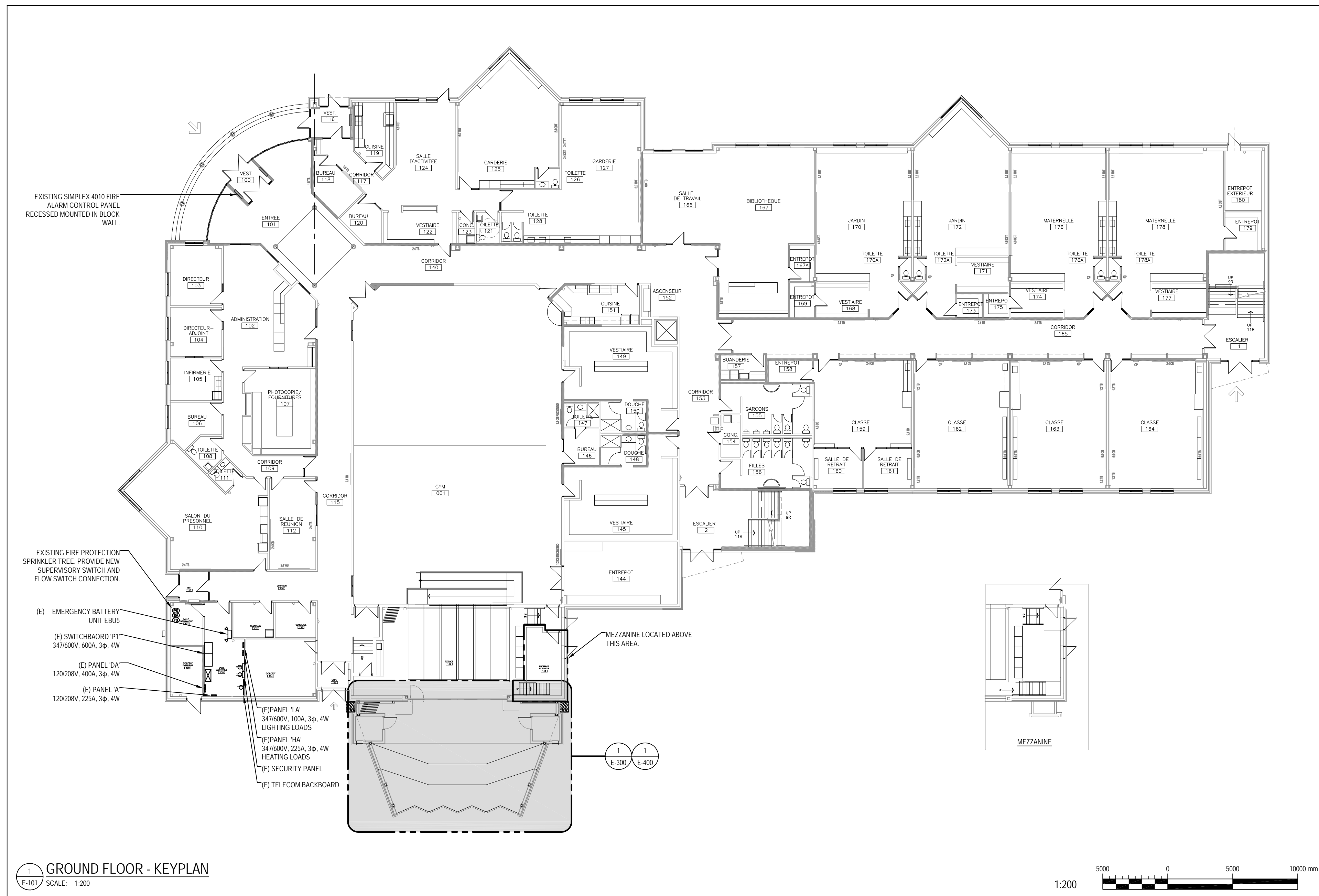
DRAWN BY:	P. SCHOONS	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	P. SCHOONS		
APPROVED BY:	A. DEMMINGS		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-01		
CLIENT PROJECT #:		CM PROJECT #:	

1553

E-101

GENERAL NOTES

1. ALL PENETRATIONS IN FIRE RATED CEILING/WALLS SHALL BE BOXED IN AND HAVE THE SAME FIRE RATING AS THE ASSEMBLY THAT IT IS RECESSED IN.
2. TRACE LIGHTING CIRCUITS AFFECTED BY THE DEMOLITION. REVISE LIGHTING TO RENOVATED AREAS AS INDICATED. MAINTAIN CIRCUIT PATH FOR UNAFFECTED PORTION OF CIRCUITS BY ADDING CONCEALED WIRE AND CONDUIT AS REQUIRED.
3. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED WITH THE SAME FIRE RATING AS THE ASSEMBLY THAT IT PENETRATES.
4. PROVIDE CUTTING, PATCHING, AND CORING OF ALL WALLS, CEILING, CONCRETE, SLABS, AND OTHER SURFACES AS REQUIRED FOR ELECTRICAL WORK. COORDINATE WITH CONSTRUCTION MANAGER PRIOR TO CORE DRILLING AND CUTTING OF STRUCTURE REGARDING BUILDING REQUIREMENTS AND POLICIES. ALL PROPOSED OPENINGS MUST BE SCANNED, TRACED, AND REVIEWED BY A STRUCTURAL ENGINEER PRIOR TO CORING, CUT, DAMAGED, OR DISTURBED SURFACES MUST BE PATCHED AND REPAIRED TO ENGINEER'S APPROVAL. MATCH EXISTING MATERIAL, COLOUR, FINISH, AND TEXTURE OR AS INDICATED OTHERWISE. ALL CORING OF SLABS, CEILINGS, WALLS CAUSING INTERRUPTION TO SCHOOL SPACES ON ABOVE OR BELOW FLOORS TO BE COMPLETE AFTER REGULAR WORKING HOURS. CONTRACTOR TO COORDINATE WITH SCHOOL BOARD REPRESENTATIVE PRIOR TO CORING.

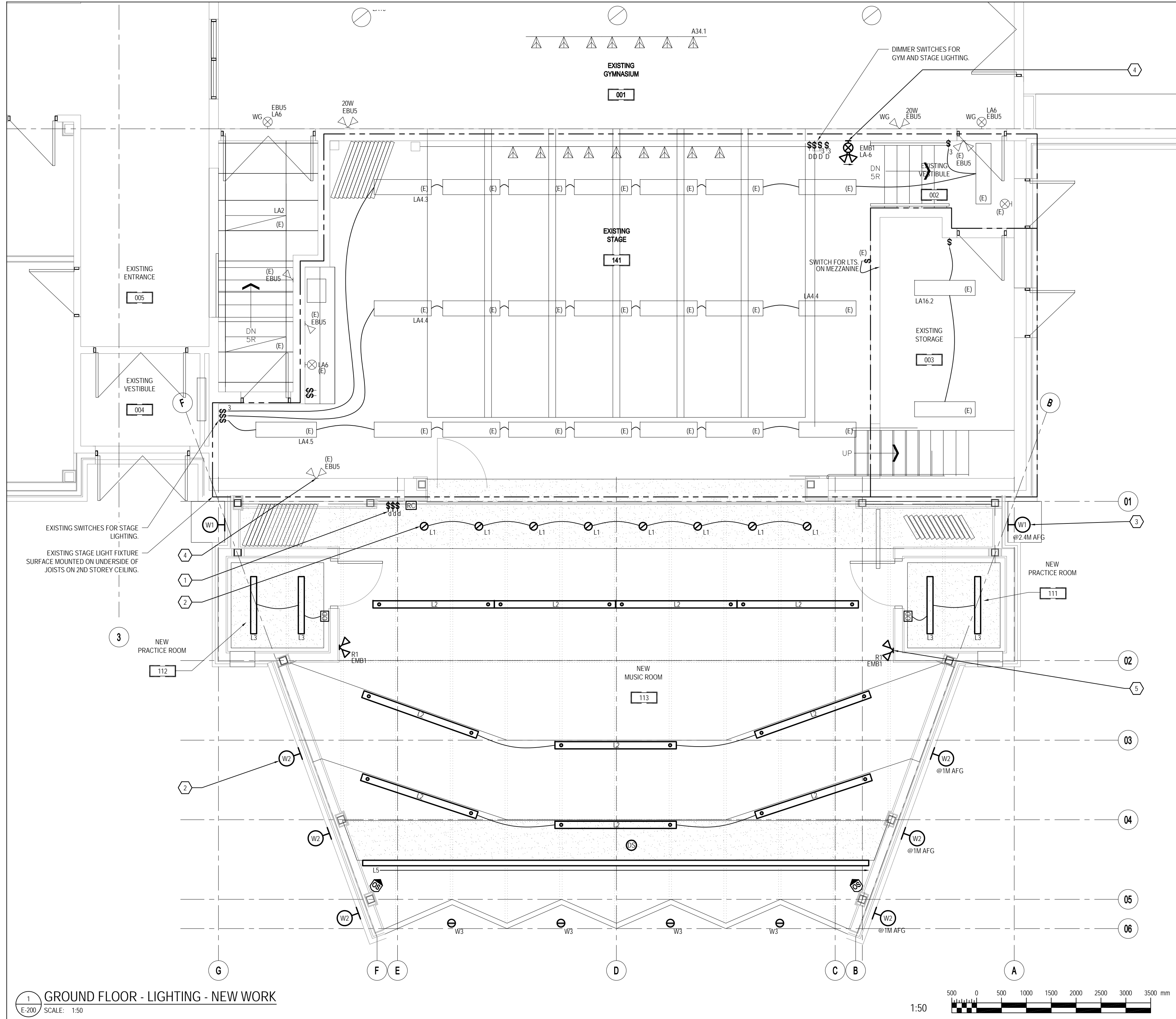


GROUND FLOOR - KEYPLAN
SCALE: 1:200

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	CATALOGUE NUMBER	LUMENS	TYPE	WATTS	COLOUR	VOLTS	MOUNTING	REMARKS
L1	6' LED DOWNLIGHT	EATON LIGHTING # P0610DD10-E1601020-8035-6LBMU	1,000	LED	11	3500K	120V	RECESSED	6' RECESSED LED DOWNLIGHT CW GALVANIZED STEEL HOUSING, ONE PIECE PARABOLIC ALUMINIUM REFLECTOR, 1,000 LUMEN LED OUTPUT AT 3500K CW 0-10V CONTINUOUS DIMMING DRIVER. PROVIDE NEW CONSTRUCTION HOUSING AND ACCESSORIES REQUIRED FOR MOUNTING. COORDINATE FINISH COLOUR WITH ARCHITECT.
L2	8FT LED LINEAR SUSPENDED	EATON LIGHTING NEO-RAY DEFINE 4 # S124DP-L035-SC48-8009-10-1HCD-1-W	359 / FT	LED	3.4 / FT	3500K	120V	SUSPENDED	RECTANGULAR 103mm (W) X 130mm (H), EXTRUDED ALUMINIUM HOUSING, LONG LIFE LED SYSTEM 105 LMW EFFICACY, SNAP IN FLUSH FROSTED LENS, LED DRIVER CW 0-10 TO 1% DIMMING, PF > 0.9. PROVIDE 48" WHITE AIR CRAFT CABLE SUSPENSION HARDWARE AND ACCESSORIES, ADJUST TO MOUNTING HEIGHTS SHOWN ON DRAWINGS. 5 YEAR FIXTURE WARRANTY.
L3	4FT LED LINEAR RECESSED	EATON LIGHTING NEO-RAY DEFINE 4 # QS-5124-DR-2-35-GYP-008-1-U-DD-1-W	1034 / FT	LED	10.7 / FT	3500K	120V	RECESSED	EXTRUDED ALUMINIUM HOUSING, LONG LIFE LED SYSTEM 105 LMW EFFICACY, SNAP IN FLUSH FROSTED LENS, LED DRIVER CW 0-10 TO 1% DIMMING, PF > 0.9. 5 YEAR FIXTURE WARRANTY.
L4	4' LED STRIP LIGHT - UTILITY ROOMS	EATON METALUX # 4SMLD-LD4-34SLLN-UWV1835-CD1U-WGSNF-4FT	3421	LED	28	3500K	120V	SURFACE	DIE FORMED COLD ROLLED STEEL HOUSING CW 0-10V CONTINUOUS DIMMING DRIVER AND SEMIFROST LENS. 5 YEAR FIXTURE WARRANTY.
L6	COVE LED LIGHTING	EATON LIGHTING AMETRIX # LC-2-35K-1-D10-120-24-30	765 / FT	LED	9 / FT	3500K	120V	SURFACE	LINE COVE SYSTEM CW INTEGRAL DRIVER AND QUICK CONNECT PLUGS 24" LED MODULE CW EXTRUDED ALUMINIUM HEAT SINK, CLEAR ACRYLIC EXTRUDED LENS LED DRIVER CW 0-10V DIMMING. 5 YEAR FIXTURE WARRANTY.
W1	WALLPACK - FORWARD THROW OPTICS	EATON LIGHTING MCGRAW-EDISON # 1ST-AF-450-LED-347-14FT-AP	3177	LED	25	4000K	347V	SURFACE	DIE CAST ALUMINIUM HOUSING AND DOOR, ELECTRONIC DRIVER, B1-U1-G2, FORWARD THROW DISTRIBUTION AND POWDERCOAT FINISH. COORDINATE FINISH WITH ARCHITECT. 5 YEAR FIXTURE WARRANTY.
W2	STEP LIGHT FIXTURE	LITON # SL100-U-UE-140	1000	LED	11	4000K	120V	RECESSED	DIE CAST ALUMINIUM CW SILICONE GASKET, FACEPLATE ONE-PIECE DIE CAST ALUMINIUM HIGH CORROSION-RESISTANT POWDER COAT FINISH AND SEMI-TRANSPARENT POLYCARBONATE OPAL LENS AND TAMPER-RESISTANT STAINLESS STEEL SCREWS, LISTED FOR WET LOCATION, 5 YEAR FIXTURE WARRANTY. COORDINATE FINISH WITH ARCHITECT.
W3	6' WALLWASHER DOWNLIGHT	EATON LIGHTING # P06300108-P06M8840-61WWW	3000	LED	27	4000K	120V	RECESSED	6' RECESSED LED DOWNLIGHT CW WALLWASHER REFLECTOR, GALVANIZED STEEL HOUSING, ONE PIECE PARABOLIC ALUMINIUM REFLECTOR, 3,000 LUMEN LED OUTPUT AT 4000K CW 0-10V CONTINUOUS DIMMING DRIVER. PROVIDE NEW CONSTRUCTION HOUSING AND ACCESSORIES REQUIRED FOR MOUNTING. COORDINATE FINISH COLOUR WITH ARCHITECT. CUL LISTED FOR WET LOCATION.

EMERGENCY LIGHTING SCHEDULE			
TYPE	DESCRIPTION	CATALOGUE NUMBER	REMARKS
RL	REMOTE DOUBLE HEAD	STANPRO # S2-12-6WLA-WH	CAST METAL HOUSING WITH WHITE POWDERCOAT FINISH CW STANDARD CANOPY AND 12VDC MR16 STYLE 6W LED LAMPS.
EB	EMERGENCY BATTERY PACK	STANPRO # RMLSL11001W-26LAWHAT	120347VAC INPUT, 12VDC OUTPUT, 100W WALL MOUNT EMERGENCY BATTERY PACK CW AUTO TEST SELF-DIAGNOSTIC.

LIGHTING CONTROL SCHEDULE			
TYPE	DESCRIPTION	CATALOGUE NUMBER	REMARKS
DD	WALL MOUNTED DIMMER/OCCUPANCY SENSOR	WATTSTOPPER # DW-311-W	DUAL TECHNOLOGY 0-10V DIMMING WALL SWITCH SENSOR UTILIZING PASSIVE INFRARED (PIR) AND ULTRASONIC TECHNOLOGIES OPERATING AT 120V, 1000W LOAD MAX, 1/4 HP MOTOR MAX, 0-10VDC DIMMING CONTROL SIGNAL SINKS UP TO 50mA FOR CONTROL OF COMPATIBLE DRIVERS UL AND CUL LISTED.
RC	ROOM CONTROLLER	WATTSTOPPER # LMRG-213	DIGITAL ON/OFF 0-10V DIMMING CONTROLLER WITH THREE RELAYS FOR ON/OFF AND 0-10V DIMMING CONTROL OF LIGHTING LOADS. CONTROLLER ALLOWS FOR INTEGRATION WITH OCCUPANCY SENSORS, DAYLIGHTING CONTROLS AND SWITCHES FOR ENERGY EFFICIENT LIGHTING CONTROL. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE SYSTEM INSTALLATION.
DS	DIGITAL DIMMING WALL SWITCH	WATTSTOPPER # LMDM-101	DIGITAL DIMMING WALL SWITCH, 24 VDC FROM DLM LOCAL NETWORK, CLASS 2 POWER SUPPLY, FOR CONTROL OF LIGHTING LOADS CONNECTED TO DLM DIMMING ROOM CONTROLLER.
CS	CORNER MOUNT LONG RANGE OCCUPANCY SENSOR	WATTSTOPPER # LMDX-100	DIGITAL DUAL TECHNOLOGY CORNER MOUNT OCCUPANCY SENSOR, 24 VDC FROM DLM LOCAL NETWORK, CLASS 2 POWER SUPPLY, USES BOTH PASSIVE INFRARED (PIR) AND ULTRASONIC TECHNOLOGIES FOR OCCUPANCY SENSING FOR ENERGY EFFICIENT CONTROL OF LIGHTING.
DS	DAYLIGHT SENSOR	WATTSTOPPER # LMLS-500	DIGITAL MULTIZONE ZONE ON/OFF AND DIMMING OPEN LOOP PHOTOSENSOR, 24 VDC FROM DLM LOCAL NETWORK, CLASS 2 POWER SUPPLY, FOR ENERGY EFFICIENT CONTROL OF LIGHTING.



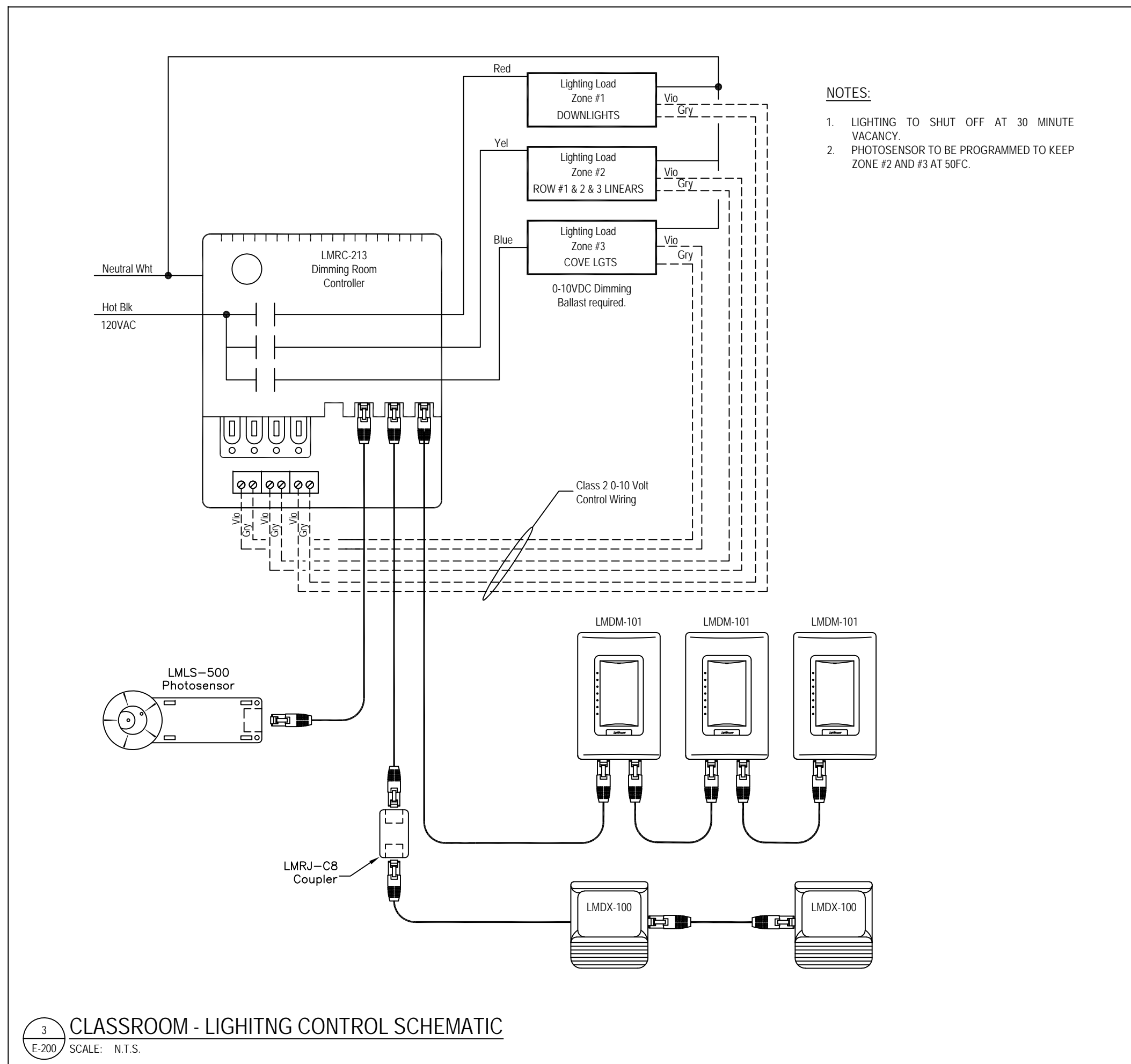
1
E-200
GROUND FLOOR - LIGHTING - NEW WORK
 SCALE: 1:50

GENERAL NOTES

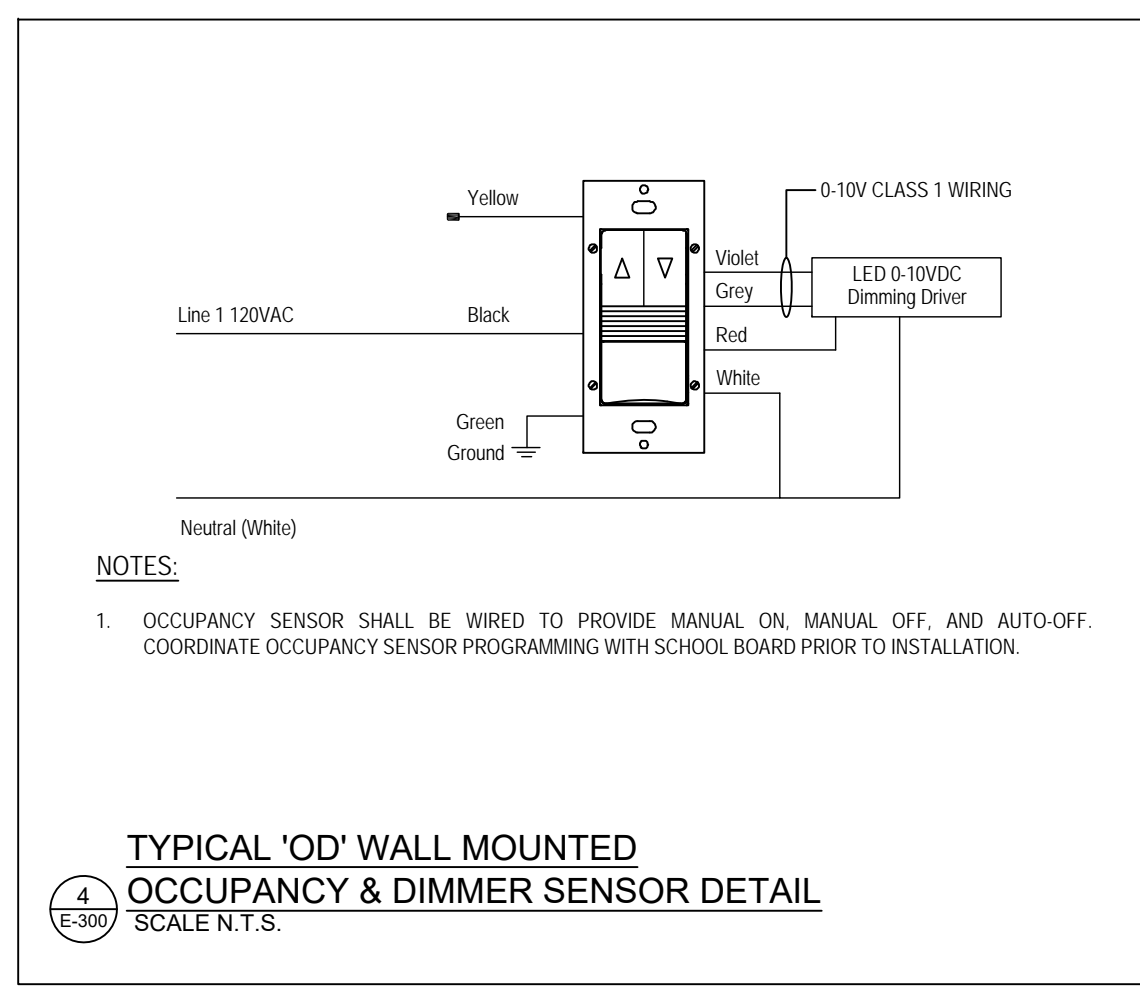
- ALL PENETRATIONS IN FIRE RATED CEILING/WALLS SHALL BE BOXED IN AND HAVE THE SAME FIRE RATINGS AS THE ASSEMBLY THAT IT IS RECESSED IN.
- TYPICAL FOR CLASSROOM**
 OCCUPANCY SENSOR TO TURN LIGHTS ON WHEN ROOM IS OCCUPIED AND OFF 20 MINUTES AFTER ROOM IS EMPTY. LIGHT SWITCHES TO ALLOW LIGHTS TO BE TURNED OFF. REFER TO CLASSROOM LIGHTING CONTROL SCHEMATIC ON THIS DRAWING FOR FURTHER DETAILS. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. MOUNT ROOM CONTROLLERS HIGH ON WALL IN ACCESSIBLE LOCATION.
- TYPICAL FOR PRACTICE ROOMS**
 WALL MOUNTED OCCUPANCY SENSOR TO TURN LIGHTS ON WHEN ROOM IS OCCUPIED AND OFF 20 MINUTES AFTER ROOM IS EMPTY. LIGHT SWITCHES TO ALLOW LIGHTS TO BE TURNED OFF. REFER TO WALL MOUNTED OCCUPANCY SENSOR DETAIL ON THIS DRAWING.
- PROVIDE CONDUITS FOR ALL LOW VOLTAGE WIRING. ROUTE CONDUITS PARALLEL WITH BUILDING LINES. CLASSROOM TO HAVE OPEN CEILING WITH NO EXPOSED WIRING.

CONSTRUCTION NOTES

- INTERIOR LIGHTING CONTROLS**
 REFER TO CLASSROOM LIGHTING CONTROL SCHEMATIC ON THIS DRAWING FOR FURTHER DETAILS. PROVIDE ALL NECESSARY COMPONENTS FOR COMPLETE SYSTEM AND PROGRAMMING.
- TYPICAL FOR INTERIOR LIGHTING**
 PROVIDE NEW 20 AMPERE, 1-POLE BREAKER IN EXISTING 120/208V PANELBOARD 'A' TO FEED ADDITION LIGHTING. REFER TO KEYPLAN ON DRAWING E-101 FOR LOCATION OF PANEL 'A' ROUTE NEW POWER FEED ABOVE EXISTING T-BAR CEILING TO ADDITION.
- TYPICAL FOR EXTERIOR LIGHTING**
 EXTERIOR FIXTURES SHALL BE CIRCUITED AND CONTROLLED WITH EXISTING 347V EXTERIOR LIGHTING CIRCUITS LOCATED IN PANEL 'LA'. PROVIDE LOCALIZED 347-120VAC STEP DOWN TRANSFORMERS FOR FIXTURE TYPES W2 AND W3. REFER TO ARCHITECTURE EXTERIOR ELEVATIONS FOR EXACT MOUNTING LOCATION.
- PROVIDE NEW COMBO EXIT SIGN BATTERY UNIT CW INTEGRAL HEADS, CIRCUIT WITH EXISTING EXIT SIGNS IN AREA. PROVIDE WIRING, CONDUIT AND JUNCTION BOX AS REQUIRED TO MAKE CONNECTION.
- EMERGENCY LIGHTING**
 PROVIDE TWO (2) NEW LED REMOTE HEADS CIRCUITED FROM NEW EXIT SIGN BATTERY PACK.



3
E-200
CLASSROOM - LIGHTING CONTROL SCHEMATIC
 SCALE: N.T.S.



4
E-300
TYPICAL 'OD' WALL MOUNTED OCCUPANCY & DIMMER SENSOR DETAIL
 SCALE N.T.S.

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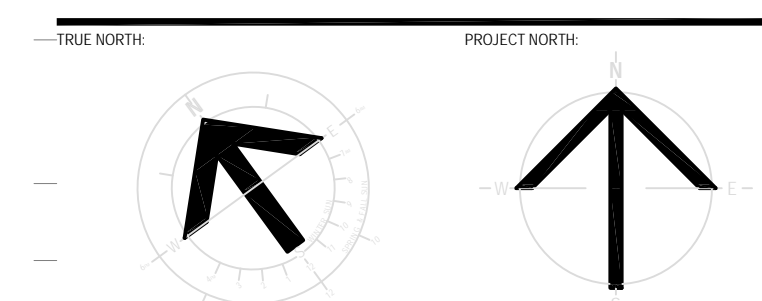
RECORD OF REVISIONS

NO.	REVISION	DATE (MM/DD/YYYY)
1	ISSUED TENDER	05/02/18
2	ISSUED FOR BUILDING PERMIT AND TENDER	06/02/18
3	ISSUED FOR RFP REVIEW	04/02/18
4	ISSUED FOR REVIEW	03/20/18



STRUCTURAL, MECHANICAL & ELECTRICAL

Jp2g Consultants Inc.
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 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 8S9
 PHONE: 613-828-7900 FAX: 613-828-2600



PROJECT TITLE:
ÉCOLE LE PRÉLUDE MUSIC ROOM
 6025 PROMENAGE LONGLEAF ORLÉANS, ON

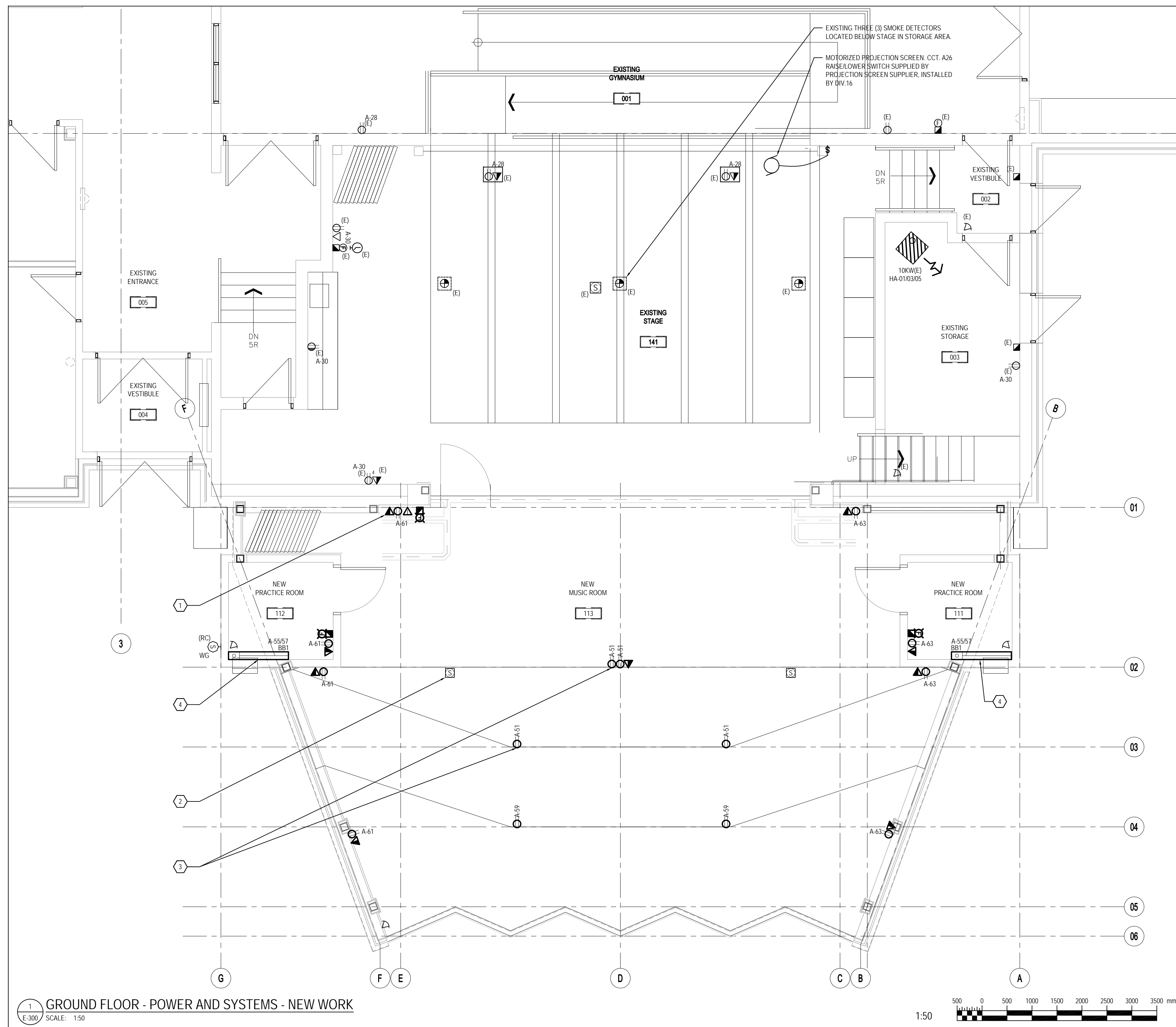
GROUND FLOOR LIGHTING NEW WORK LAYOUT

DRAWN BY:	P. SCISSONS	DRAWING NUMBER:	
DATE:	2018-05-01		
REVIEWED BY:	P. SCISSONS		
APPROVED BY:	A. DEMMINGS		
PRINT DATE:	5/17/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018-05-01		
CLIENT PROJECT #:		CLIENT PROJECT #:	

1553

E-200

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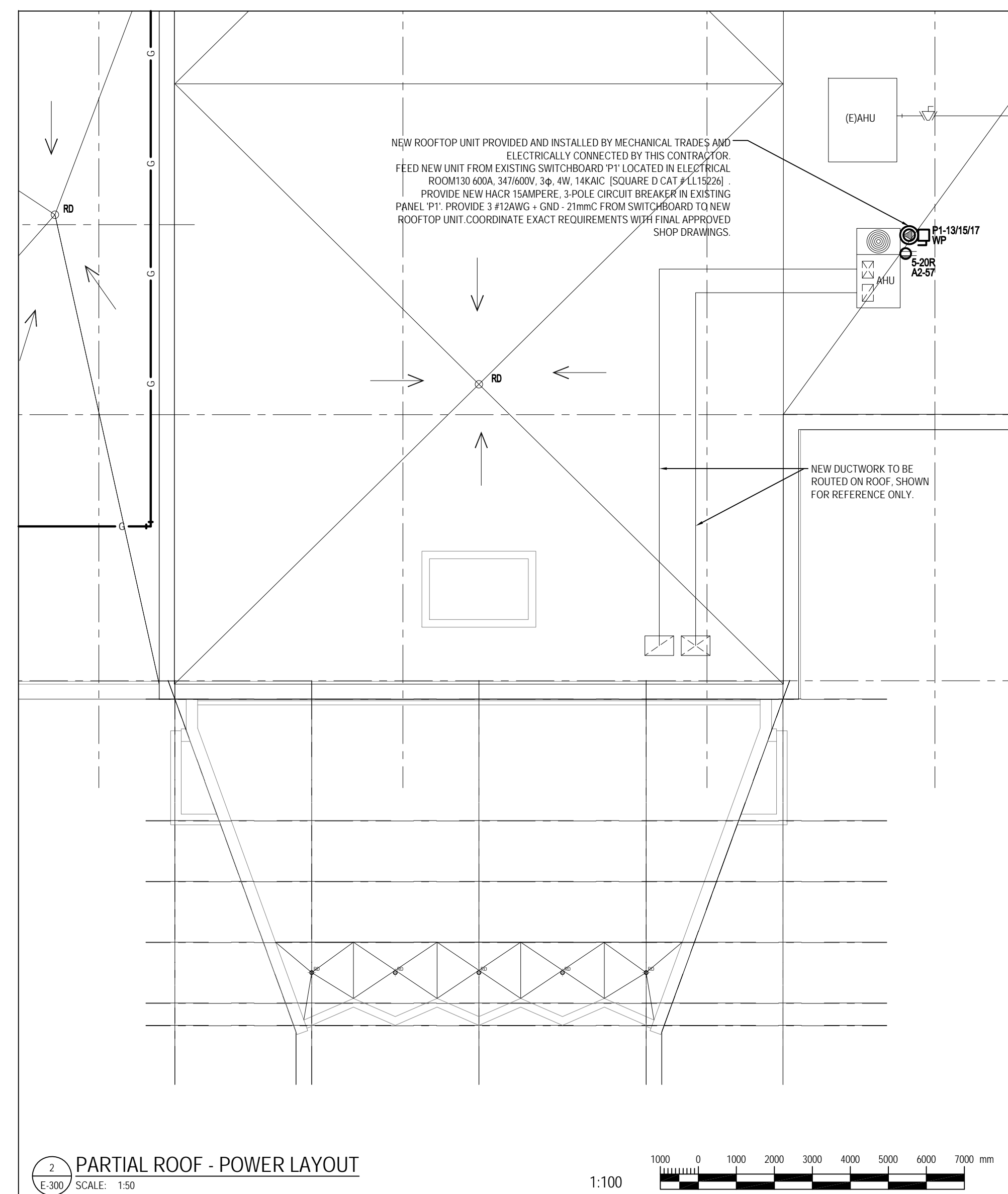
1 GROUND FLOOR - POWER AND SYSTEMS - NEW WORK
E-300 SCALE: 1:50

- ### GENERAL NOTES
1. ALL ITEMS ARE NEW UNLESS INDICATED OTHERWISE.
 2. ALL PENETRATIONS IN FIRE RATED CEILING/WALLS SHALL BE BOXED IN AND HAVE THE SAME FIRE RATING AS THE ASSEMBLY THAT IT IS RECESSED IN.
 3. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EQUIPMENT ELECTRICAL REQUIREMENTS.
 4. ALL PENETRATIONS IN FIRE RATED CEILING/WALLS SHALL BE BOXED IN AND HAVE THE SAME FIRE RATING AS THE ASSEMBLY THAT IT IS RECESSED IN.
 5. REFER TO ARCHITECTURAL MILLWORK ELEVATION DRAWINGS FOR EXACT MOUNTING HEIGHT AND LOCATIONS.
 6. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EQUIPMENT ELECTRICAL REQUIREMENTS. COORDINATE EXACT REQUIREMENTS WITH FINAL APPROVED SHOP DRAWINGS.
 7. TYPICAL HVAC CONTROLS JB
PROVIDE 120V CONNECTION TO JUNCTION BOX ABOVE ACCESSIBLE CEILING. CIRCUIT AS SHOWN ON FLOORPLANS. ELECTRICALLY CONNECT TO LINE VOLTAGE SIDE OF CONTROLS TRANSFORMER. COORDINATE EXACT MOUNTING LOCATION ON SITE WITH MECHANICAL TRADES PRIOR TO INSTALLATION.
 8. TYPICAL FOR ROOFTOP MAINTENANCE RECEPTACLES
PROVIDE WEATHERPROOF 5-200A GFI MAINTENANCE RECEPTACLES FED BY 20A DEDICATED CIRCUIT BREAKERS IN PANEL INDICATED CW WHILE-IN-USE WEATHERPROOF COVER. MOUNT RECEPTACLE ON UNIT AT 750MM ABOVE ROOF ADJACENT TO THE DISCONNECT SWITCH. COORDINATE EXACT LOCATIONS ON SITE WITH MECHANICAL TRADES.
 9. TYPICAL FOR NEW FIRE ALARM ANNUNCIATION DEVICES
EXTEND EXISTING ANNUNCIATION CIRCUIT TO CONNECT NEW FIRE ALARM HORN/STROBES. PROVIDE NEW STROBE CIRCUIT CW SYNC MODULE FROM EXISTING MAIN FIRE ALARM CONTROL PANEL LOCATED IN MAIN VESTIBULE. REFER TO KEY PLAN ON DRAWING E-101 FOR EXACT LOCATION. THIS CONTRACTOR SHALL HIRE A CERTIFIED FIRE ALARM CONTRACTOR TO TEST AND VERIFY THE PROPER OPERATION OF ALL FIRE ALARM DEVICES. TEST AND VERIFICATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH CANULC-S533, CANULC-S537. THIS CONTRACTOR SHALL PERFORM AN AUDIBILITY TEST TO ENSURE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS, AS WELL AS THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION HAVE BEEN MET. HORN/STROBES SHALL BE SET AT THE HIGH VOLUME SETTINGS AND 75% UNLESS INDICATED OTHERWISE. ELECTRICAL CONTRACTOR TO ADJUST VOLUME SETTINGS AS REQUIRED DURING AUDIBILITY TESTING TO MEET CBC REQUIREMENTS. PROVIDE NEW BATTERIES FOR EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED TO ACCOMMODATE ADDITIONAL LOAD ADDED AS PART OF THIS WORK.

- ### CONSTRUCTION NOTES
- 1 TYPICAL CLASSROOM CONTROL PANEL 'CP'
REFERENCE ARCHITECTURAL DETAILS FOR LOCATIONS AND MOUNTING HEIGHTS FOR FIRE ALARM HORN/STROBE, INTERCOM/TELEPHONE, LIGHT SWITCHES, RECEPTACLES AND VOICEDATA OUTLETS. COORDINATE WITH OTHER TRADES FOR LOCATION OF BATTERY CLOCKS AND MECHANICAL THERMOSTATS.
 - 2 PROVIDE NEW CEILING MOUNTED PUBLIC ADDRESS SYSTEM SPEAKER AND WALL MOUNTED INTERCOM. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED.
 - 3 MOUNT RECEPTACLES AND DATA OUTLETS ON FACE OF STEP. COORDINATE EXACT ROUTING OF CONDUIT ON SITE. TYPICAL OF SIX (6) RECEPTACLES AND ONE (1) DATA OUTLET MOUNT HORIZONTALLY AND PROVIDE BRUSHED STAINLESS STEEL FACEPLATE.
 - 4 PROVIDE 1000W, 208V, 1ø BASEBOARD HEATER CW INTEGRAL THERMOSTAT. DESIGN BASIS STEELPRO 0DL1008, 4FT WHITE EPOXY-POLYESTER POWDERCOAT FINISH, CW INTEGRAL TAMPERPROOF THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH THE ARCHITECT.

EQUIPMENT ROUGH-IN SCHEDULE

TYPE	DESCRIPTION	REMARKS
▽▽▽	DATA, TELECOM, PHONE OUTLET	PROVIDE RECESSED SINGLE GANG OUTLET BOX WITH 21mm CONDUIT CW PULLSTRINGS IN PLACE. BACK TO MAIN DATA/TELECOM BACKBOARD LOCATED IN ELECTRICAL ROOM #130.
△	MOTION DETECTOR - SECURITY	PROVIDE RECESSED SINGLE GANG OUTLET BOX WITH 21mm CONDUIT CW PULLSTRINGS IN PLACE. BACK TO MAIN SECURITY BACKBOARD LOCATED IN ELECTRICAL ROOM #130.



2 PARTIAL ROOF - POWER LAYOUT
E-300 SCALE: 1:50

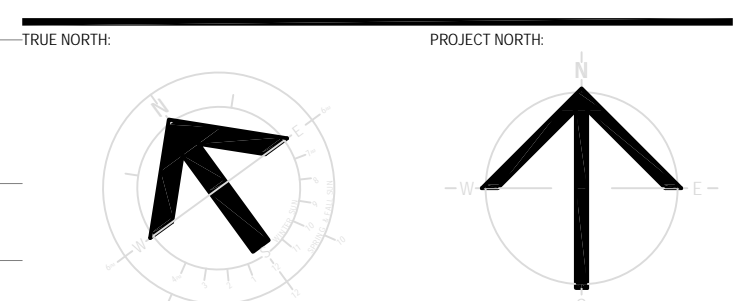
RECORD OF REVISIONS

NO.	REVISION	DATE	BY
1	ISSUED TENDER	05/02/18	
2	ISSUED FOR BIDDING PERMIT AND TENDER	06/02/18	
3	ISSUED FOR RFP REVIEW	06/22/18	
4	ISSUED FOR REVIEW	09/20/18	



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PHONE: 613-828-7900 FAX: 613-828-2600



PROJECT TITLE
**ÉCOLE LE PRÉLÈVE
MUSIC ROOM**
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

**GROUND FLOOR AND ROOF
POWER AND SYSTEMS LAYOUT**

DRAWN BY:	P. SCISSONS	DRAWING NUMBER:	
DATE:	2018/05/01		
REVIEWED BY:	P. SCISSONS		
APPROVED BY:	A. DEMMINGS		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
ISSUED FOR:	TENDER		
DATE:	2018/05/01		
CLIENT PROJECT #		CH/PROJECT #	1553

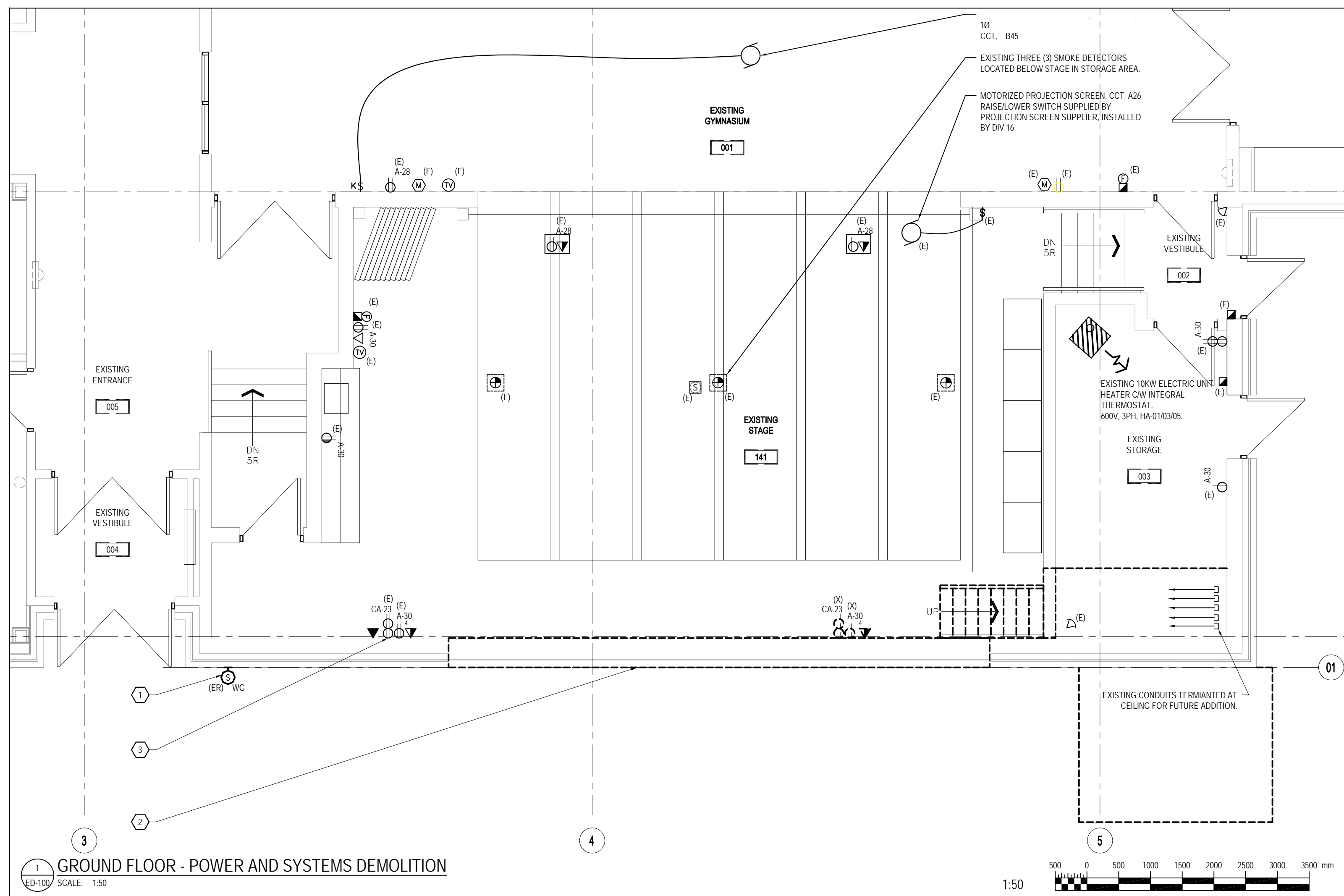
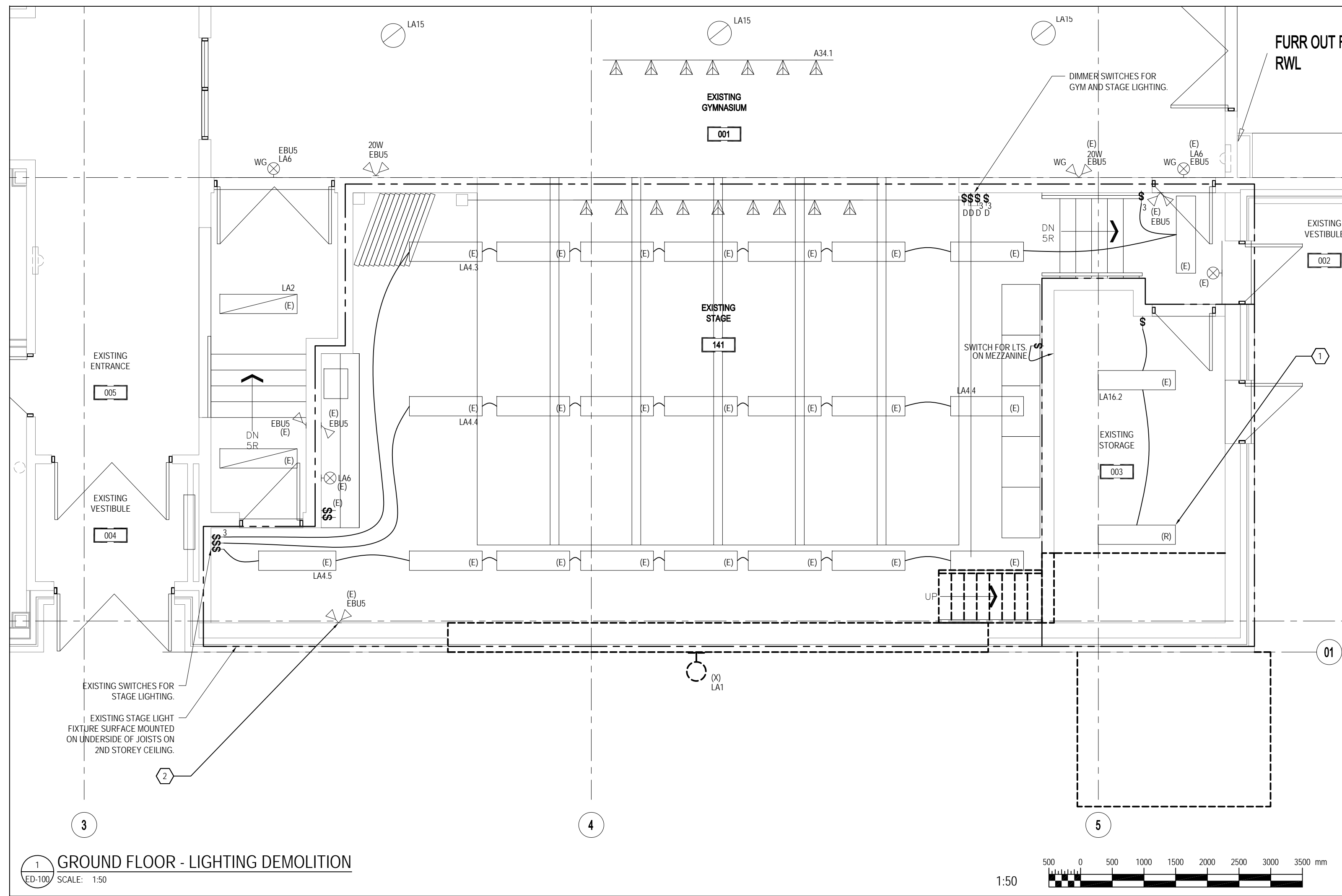
E-300

PARTIAL PANEL 'A' SCHEDULE (EXISTING)

PROJECT:	NO.	DATE:	MAINS:		AMPS: 400A		VOLTS: 120/208V				PHASE: 3 Ø		WIRE: 4 W			
LOAD DESCRIPTION	NO	MISC	MOTOR	ELECTRIC HEAT	RECEPT	LIGHTS	BREAKER SIZE	CIRCUIT NUMBER	BREAKER SIZE	LIGHTS	RECEPT	ELECTRIC HEAT	MOTOR	MISC	NO	LOAD DESCRIPTION
EXISTING LOAD							15	49	50	15						EXISTING LOAD
00 RECEPT. MUSIC RM 113	4				1.2		15	51	52							SPACE
EXISTING LOAD							15	53	54	15						EXISTING LOAD
00 ADDITION B.B. HEATERS	2			2.0			15/2P	55	56	15						EXISTING LOAD
EXISTING LOAD							15	57	58	15						EXISTING LOAD
00 RECEPT. MUSIC RM 113	2				0.6		15	59	60	15						EXISTING LOAD
00 RECEPT. MUSIC RM 113	4				1.2		15	61	62	15						EXISTING LOAD
00 RECEPT. MUSIC RM 113	4				1.2		15	63	64							SPACE
SPACE							65	66								SPACE
SUB-TOTAL ADDITION KW		0.0	0.0	2.0	4.2	0.0				0.0	0.0	0.0	0.0	0.0		SUB-TOTAL KW

EXISTING:				ADDITION LOAD SUMMARY			
LOAD	CONNECT	D.F.	DEMAND	LOAD	CONNECT	D.F.	DEMAND
SQUARE D # QDL464LCU				LIGHTS	0.00	1.00	0.00
SURFACE MOUNTED				RECEPT	4.20	0.50	2.10
				ELEC HTG	2.00	0.75	1.50
				MOTORS	0.00	0.80	0.00
				MISC	0.00	0.50	0.00
				TOTAL	6.2		3.60

* DENOTES HANDLE LOCKING DEVICE
** DENOTES GFI TYPE CIRCUIT BREAKER
(N) DENOTES NEW CIRCUIT BREAKER



LIGHTING GENERAL NOTES

- NOT ALL ITEMS TO BE REMOVED OR RELOCATED ARE SHOWN FOR CLARITY. THIS CONTRACTOR SHALL VERIFY ON SITE ALL ITEMS AFFECTED BY THIS WORK.
- TRACE LIGHTING CIRCUITS AFFECTED BY THE DEMOLITION. MAINTAIN CIRCUIT PATH FOR UNAFFECTED PORTION OF CIRCUITS BY ADDING CONCEALED WIRE AND CONDUIT AS REQUIRED.
- REMOVE AND SAFELY DISPOSE OF ALL ABANDONED WIRING AND CONDUIT ALL THE WAY BACK TO SOURCE OR PANEL. REMOVE AND SAFELY DISPOSE OF ALL ABANDONED ELECTRICAL EQUIPMENT AND DEVICES IN SPACE.
- REMOVE ALL REDUNDANT WIRING AND RE-ROUTE ALL EXISTING CONDUIT AND EXTEND WIRING TO ALLOW FOR NEW FIRE STOPPING AND STRUCTURE WORK. SECURE ALL LOOSE CABLES AND JUNCTION BOXES IN NEW CEILING SPACE. PROVIDE NEW HANGERS AND UNISTRUT ASSEMBLIES ON UNDERSIDE OF NEW FIRE RATED CEILING AND ABOVE NEW T-BAR CEILING. PROVIDE 15mm J HOOKS EVERY 2METERS AND SECURE ALL LOOSE DATA AND PA WIRING ON J HOOKS.

LIGHTING DEMOLITION NOTES

- REMOVE AND RE-INSTALL EXISTING LIGHT FIXTURE AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW STAIR.
- REMOVE ALL EXISTING DEVICES MOUNTED ON WALL TO ACCOMMODATE REINFORCEMENT BY OTHERS. ALL EXISTING DEVICES TO BE RE-INSTALLED SURFACE MOUNTED AFTER STRUCTURAL REINFORCEMENT WORK IS COMPLETE. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO RE-ESTABLISH CONNECTIONS.

POWER AND SYSTEMS GENERAL NOTES

- ALL PENETRATIONS IN FIRE RATED CEILING/WALLS SHALL BE BOXED IN AND HAVE THE SAME FIRE RATING AS THE ASSEMBLY THAT IT IS RECESSED IN.

POWER AND SYSTEMS DEMOLITION NOTES

- RELOCATE EXISTING EXTERIOR MOUNTED PUBLIC ADDRESS SYSTEM SPEAKER ON WIREGUARD TO ACCOMMODATE CONSTRUCTION. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED.
- REMOVE ALL EXISTING POWER, DATA, TELECOM, PUBLIC ADDRESS AND FIRE ALARM SERVICES ROUTED IN WALL TO ACCOMMODATE DEMOLITION BY GENERAL TRADES. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONNECTIONS.
- REMOVE ALL EXISTING DEVICES MOUNTED ON WALL TO ACCOMMODATE REINFORCEMENT BY OTHERS. ALL EXISTING DEVICES TO BE RE-INSTALLED SURFACE MOUNTED AFTER STRUCTURAL REINFORCEMENT WORK IS COMPLETE. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO RE-ESTABLISH CONNECTIONS.

CLIENT LOGO:



KEY PLAN:

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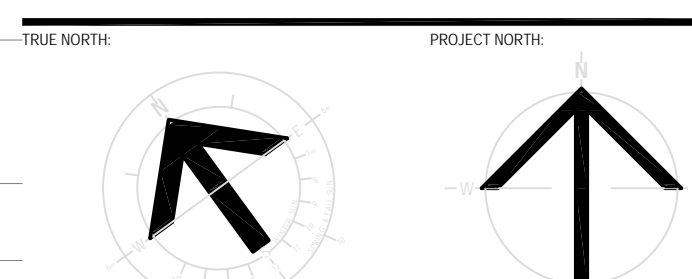
RECORD OF REVISIONS:

NO.	REVISION	DATE
1	ISSUED TENDER	05/02/2018
2	ISSUED FOR BUILDING PERMIT AND TENDER	06/02/2018
3	ISSUED FOR RFP REVIEW	06/02/2018
4	ISSUED FOR REVIEW	02/02/2018

NUMBER: 1553 REVISION: DATE: 02/02/2018
PROFESSIONAL STAMP: PROFESSIONAL STAMP:



STRUCTURAL, MECHANICAL & ELECTRICAL:



PROJECT TITLE:
**ÉCOLE LE PRÉLUDE
MUSIC ROOM**
6025 PROMENAGE LONGLEAF
ORLÉANS, ON

DRAWING TITLE:
**GROUND FLOOR LIGHTING,
POWER AND SYSTEMS
DEMOLITION**

DRAWN BY:	P. SCISSONS	DRAWING NUMBER:	
DATE:	2018/05/01		
REVIEWED BY:	P. SCISSONS		
APPROVED BY:	A. DEMMINGS		
PRINT DATE:	5/1/2018	REVISION NUMBER:	
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