

 1
A2.1
1:100
MAIN FLOOR PLAN

LIST OF DRAWINGS:

ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL
A2.1 MAIN FLOOR PLAN	S1 MAIN FLOOR PLAN, MEZZANINE PLAN, DETAILS	M1.1 MAIN FLOOR PLAN/ MECHANICAL DEMOLITION	E1.1 MAIN FLOOR DEMOLITION PLAN
A2.2 MEZZANINE PLAN		M1.2 MEZZANINE FLOOR PLAN / MECHANICAL DEMOLITION	E1.2 MEZZANINE DEMOLITION PLAN
A2.3 MAIN FLOOR REFLECTED CEILING PLAN		M2.1 MAIN FLOOR PLAN / VENTILATION	E2.1 MAIN FLOOR ELECTRICAL POWER PLAN
A2.4 MEZZANINE REFLECTED CEILING PLAN		M2.2 MEZZANINE FLOOR PLAN / VENTILATION	E2.2 MEZZANINE ELECTRICAL POWER PLAN
A3.1 EXTERIOR ELEVATIONS		M3.1 THERMODYNAMICS	E3.1 MECHANICAL SCHEDULE AND SYMBOL SCHEDULE
A3.2 SECTIONS & DETAILS		M4.1 SCHEDULES / DETAILS	E4.1 PANEL SCHEMATICS

DO NOT SCALE DRAWINGS

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0	PACKAGE SPLIT--"TENDER PACKAGE TWO"	2015/09/25
Revision/ Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

'TENDER PACKAGE TWO'

**MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.**

Approved by/Approuvé par

Designed by/Concept par
RP

Drawn by/Dessiné par
CT

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client/client

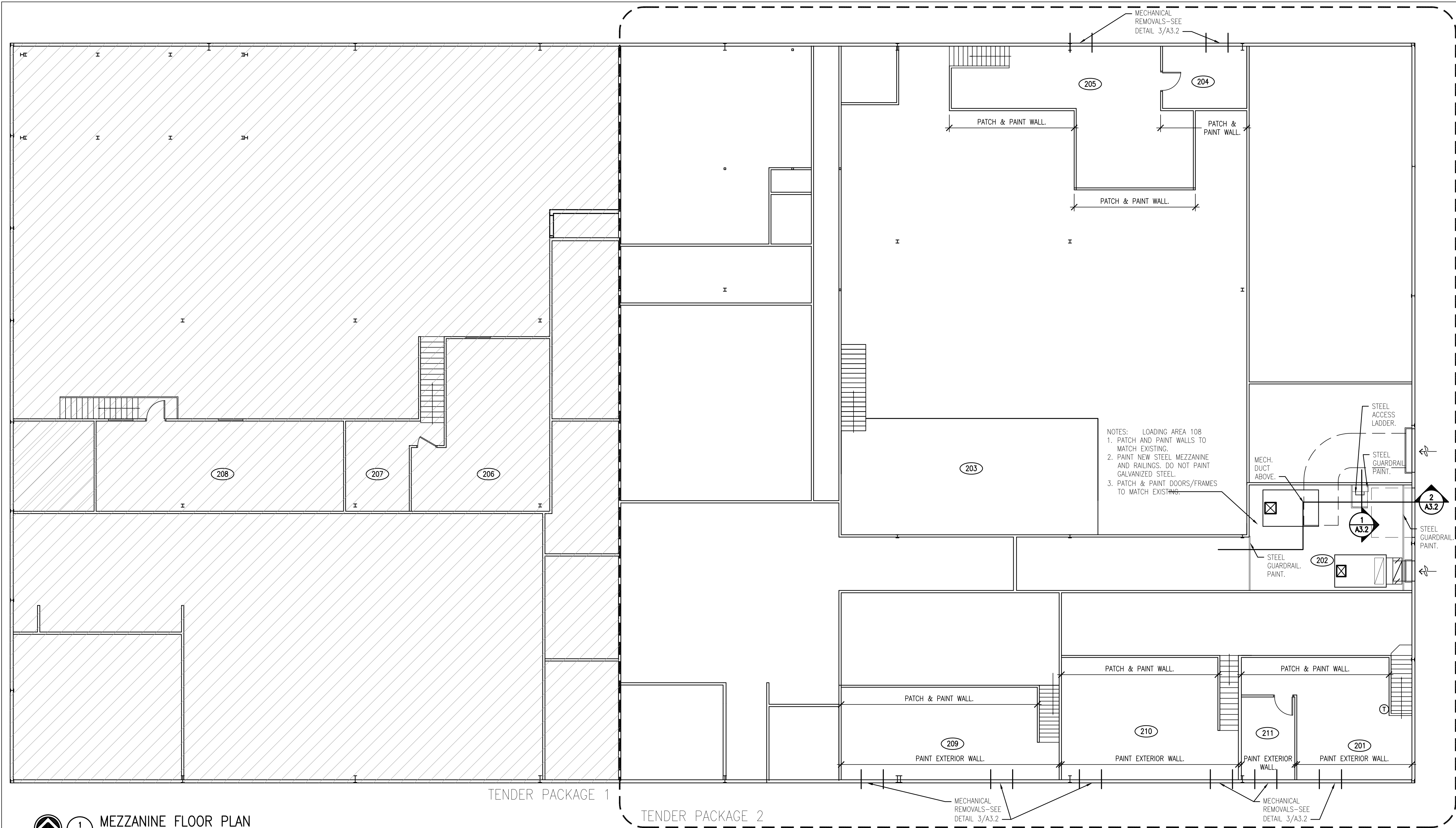
Drawing title/Titre du dessin

MAIN FLOOR PLAN

Project
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projet

Sheet/ Feuille
A2.1

Revision no./
La Révision
no.
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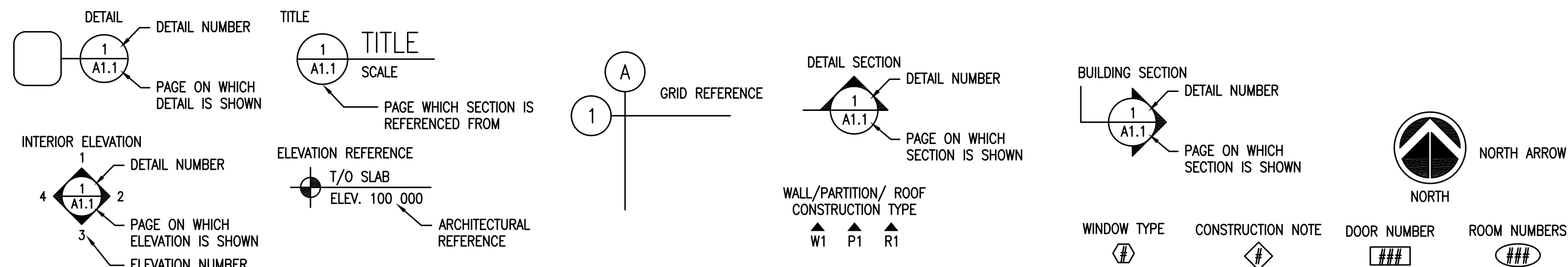


1 MEZZANINE FLOOR PLAN
A2.2 1:100

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	E.W.	EACH WAY	PT	PAINT
ALUM.	ALUMINUM	EQ.	EQUAL	R.T.	ROOF DRAIN
BD.	BOARD	H.S.S.	HOLLOW STRUCTURAL STEEL	REV.	REVERSE
COL.	COLUMN	HORIZ.	HORIZONTAL	R.F.	RESILIENT FLOORING
CONC.	CONCRETE	INSUL.	INSULATION	S.A.P.	SOUND ABSORPTIVE PANEL
CORR.	CORRIDOR	MECH.	MECHANICAL	SIM.	SIMILAR
C/W	COMPLETE WITH	MECH. MAXIMUM		TB	TACKBOARD
DEMO.	DEMOLITION	MIN.	MINIMUM	TYP.	TYPICAL
DEPT.	DEPARTMENT	N.I.C.	NOT IN CONTRACT	VERT.	VERTICAL
D.F.	DRINKING FOUNTAIN	N.T.S.	NOT TO SCALE	VEST.	VESTIBULE
DTL.	DETAIL	O.C.	ON CENTER	WASH.	WASHROOM
ELEC.	ELECTRICAL	O.S.B.	ORIENTED STRAND BOARD	WB	WHITE BOARD
				W.C.	WATER CLOSET

SYMBOL SCHEDULE



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'TENDER PACKAGE TWO'

MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

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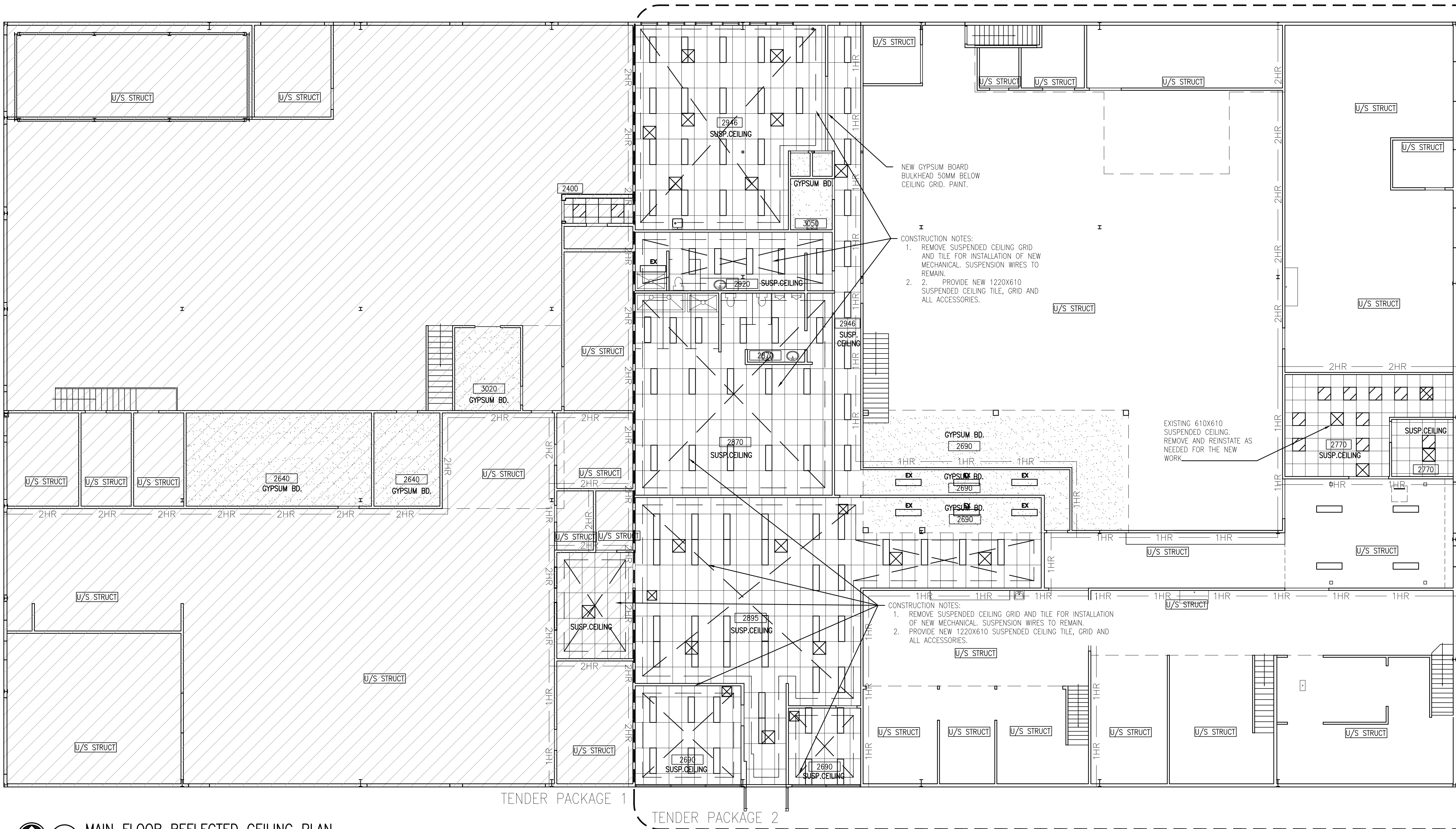
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MEZZANINE FLOOR PLAN

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Revision no./
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A2.1 1:100
MAIN FLOOR REFLECTED CEILING PLAN

CEILING LEGEND			
	ACOUSTICAL TILE		EXPOSED STRUCTURE
	GYPSUM BOARD		LIGHT FIXTURE
	SPRINKLER HEAD		MECHANICAL DIFFUSER—REFER TO MECHANICAL
	1 HR — FIRE SEPARATION		CEILING ELEVATION
	1.5 HR — FIRE SEPARATION		STRUCTURE EXPOSED
	2 HR — FIRE SEPARATION		

DO NOT SCALE DRAWINGS

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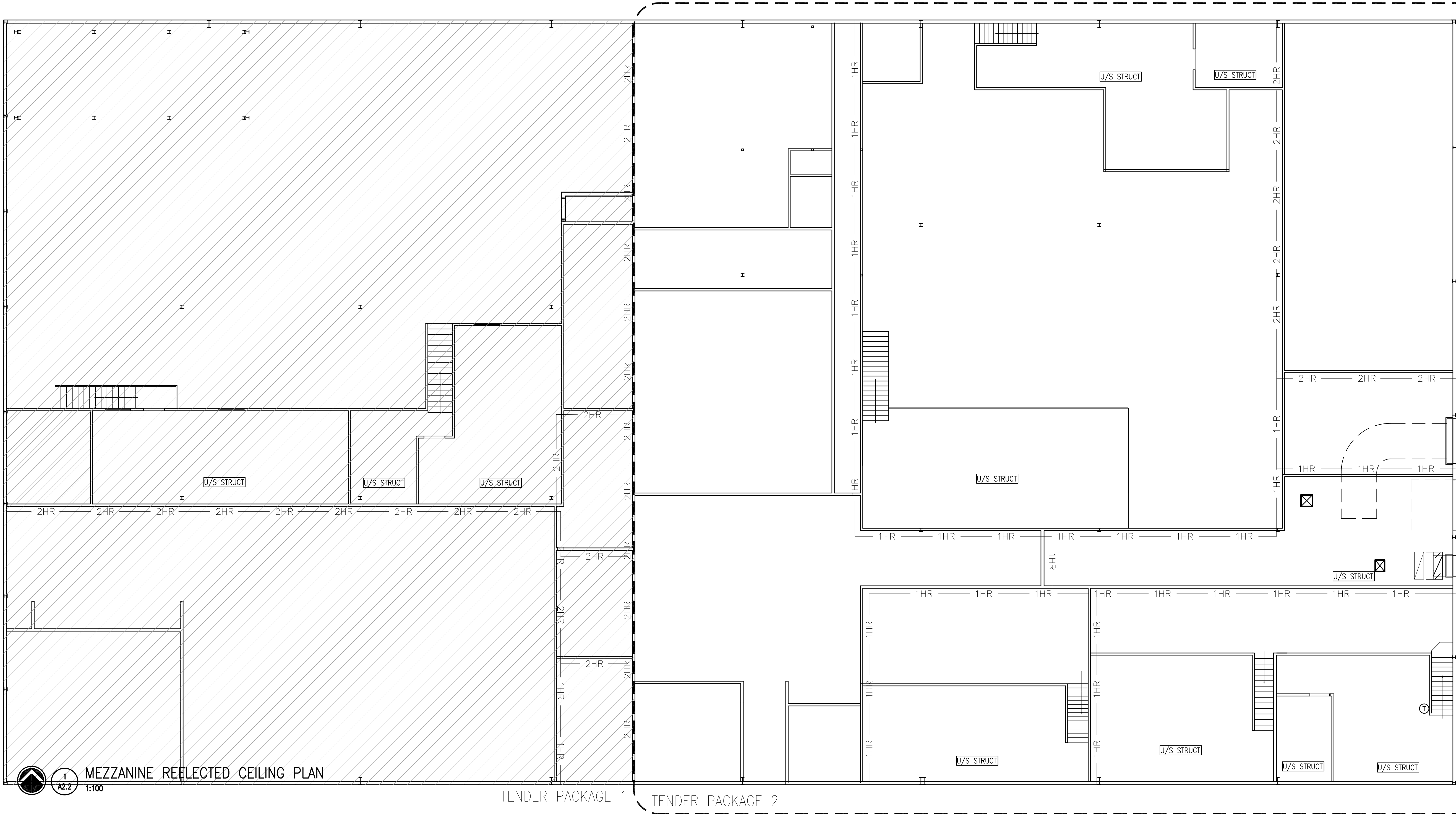
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Drawing title/Titre du dessin
**MAIN FLOOR REFLECTED
CEILING PLAN**

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A2.3

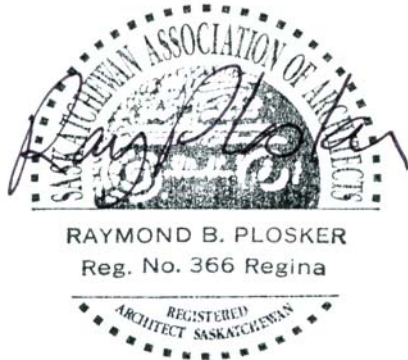
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MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.

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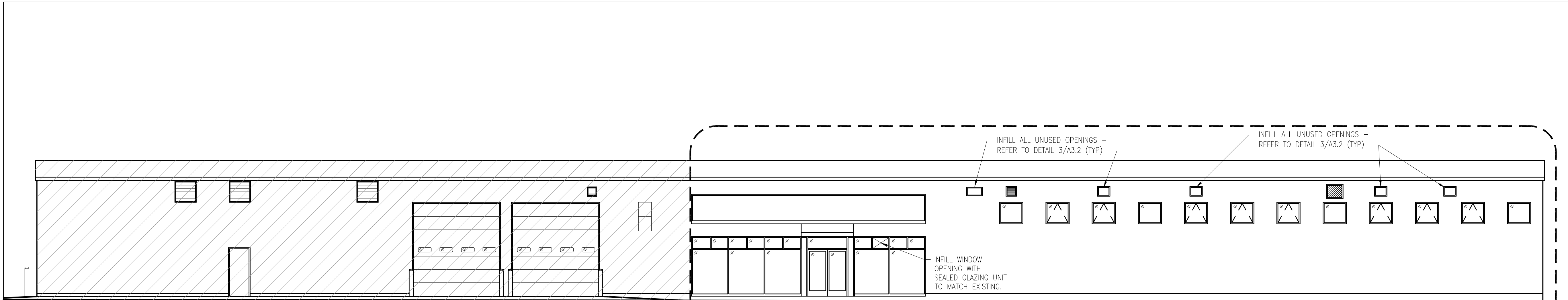
Architectural and Engineering Resources Manager/
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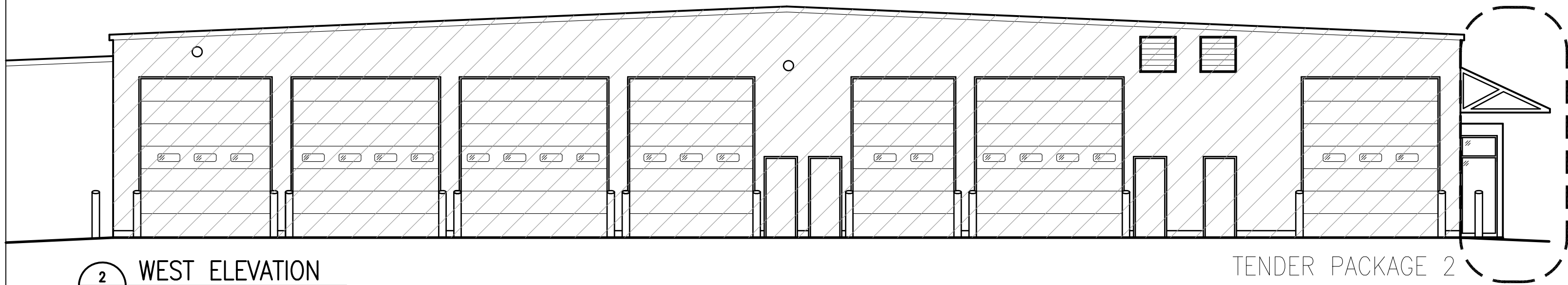
MEZZANINE REFLECTED
CEILING PLAN

Project No./No. du projet	Sheet/ Feuille A2.4	Revision no./ La Révision no. 0
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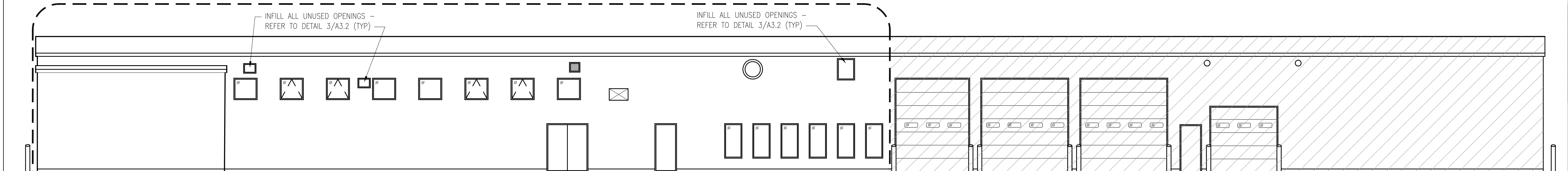
1 SOUTH ELEVATION
A2.2 1:100

TENDER PACKAGE 1 TENDER PACKAGE 2



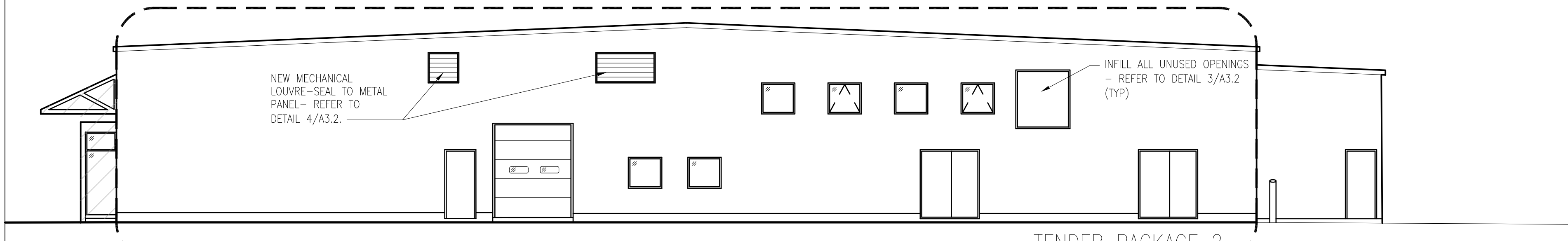
2 WEST ELEVATION
A2.2 1:100

TENDER PACKAGE 2



3 NORTH ELEVATION
A2.2 1:100

TENDER PACKAGE 2 TENDER PACKAGE 1



4 EAST ELEVATION
A2.2 1:100

TENDER PACKAGE 2

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REGINA, SASK.**

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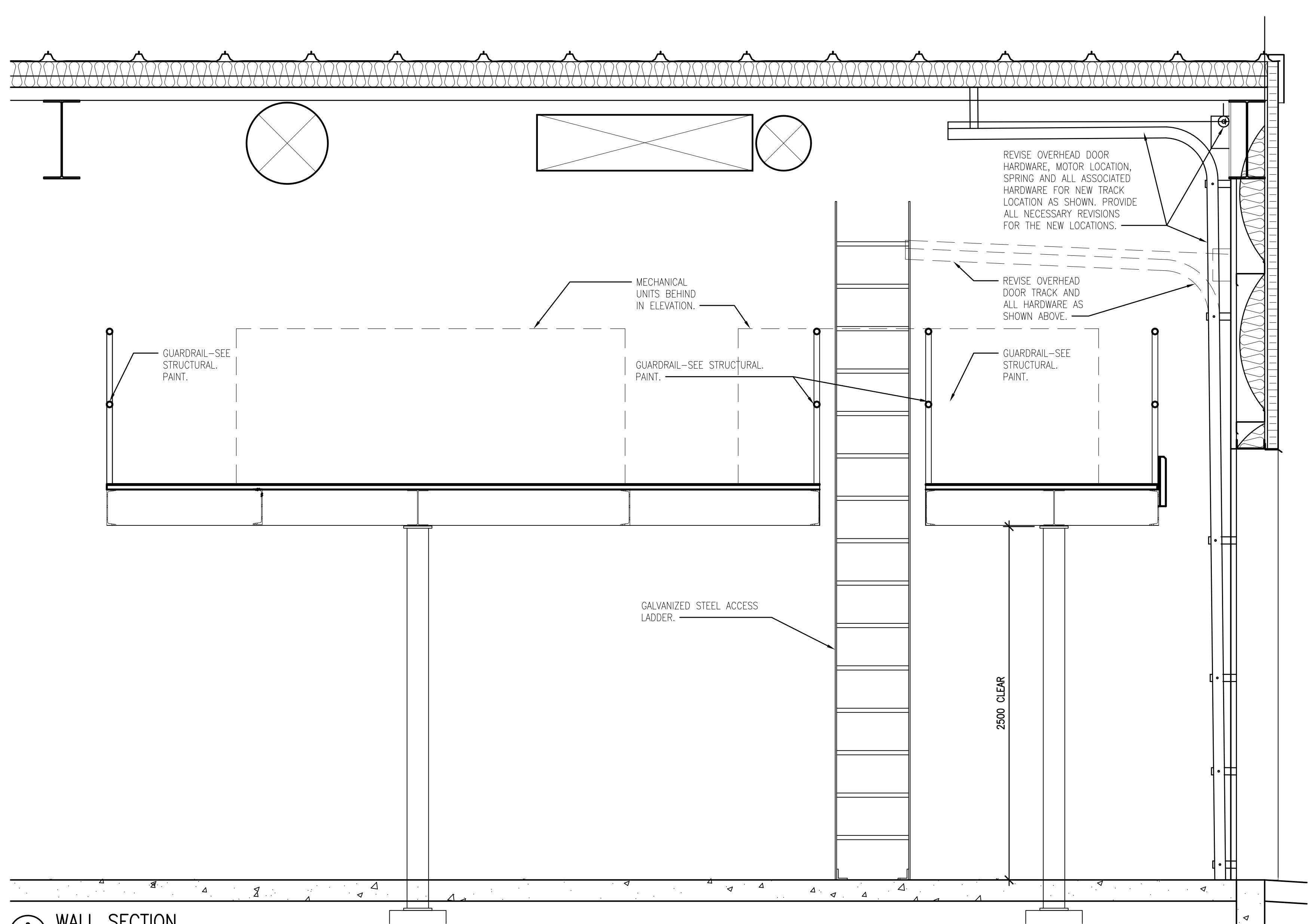
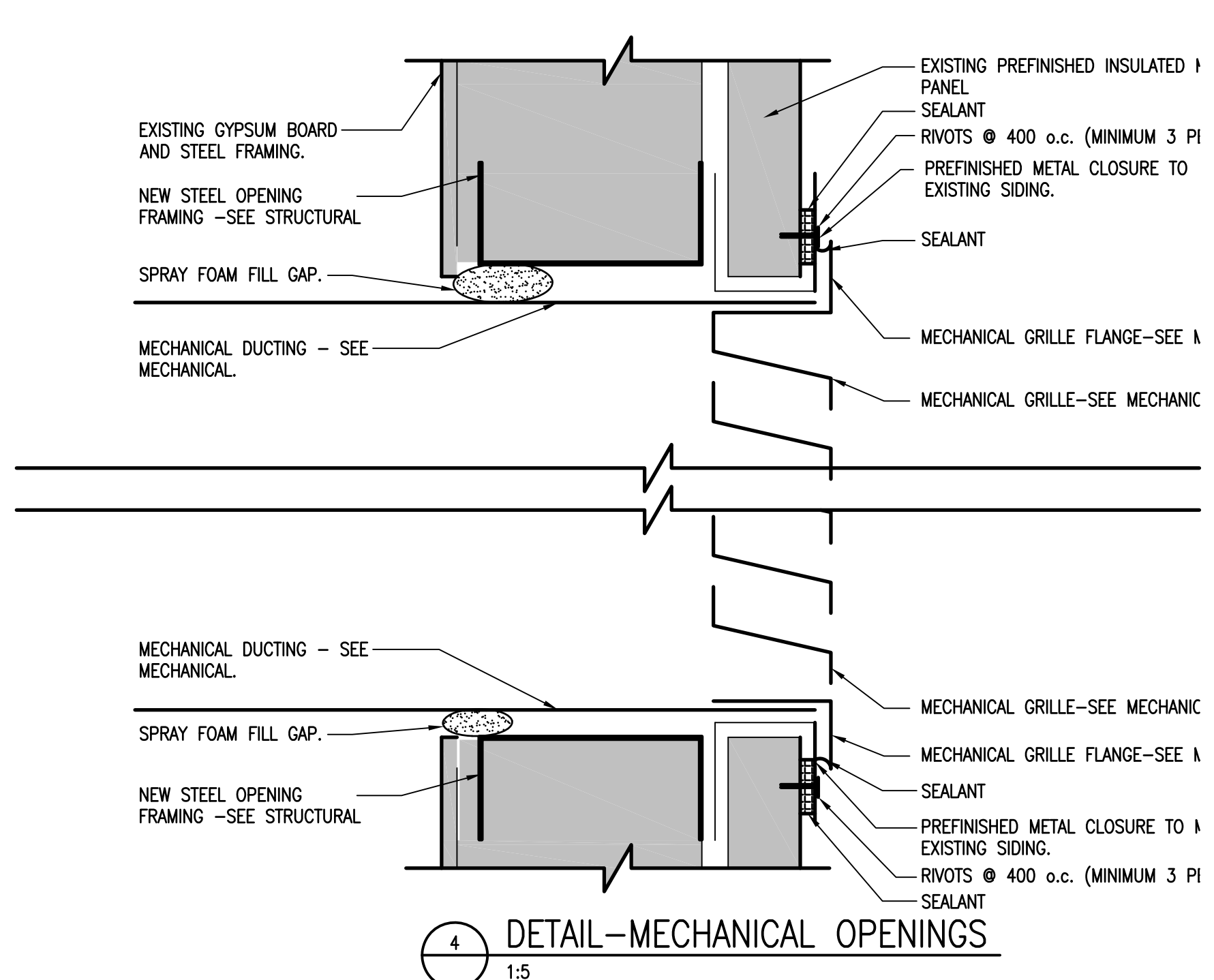
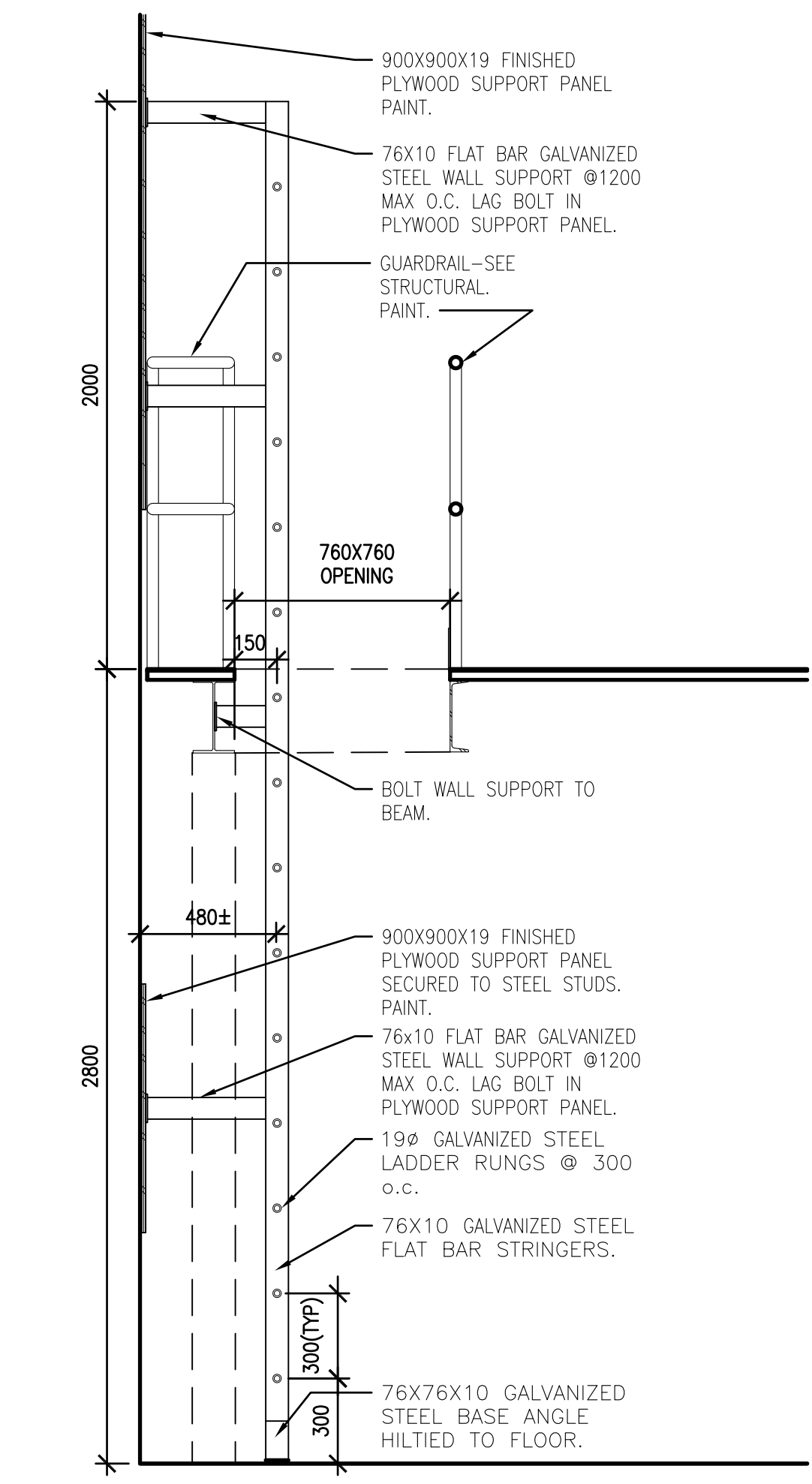
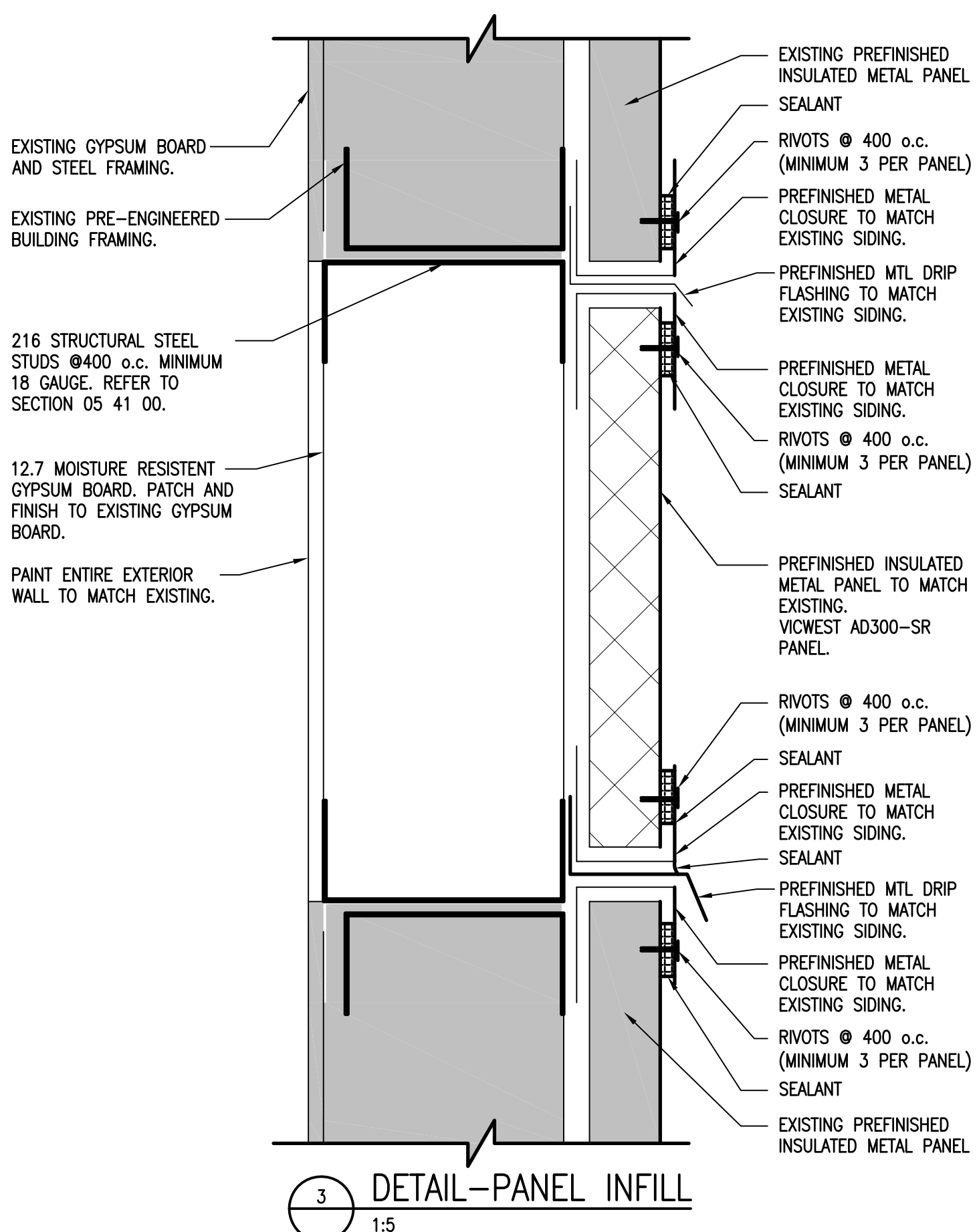
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EXTERIOR ELEVATIONS

Project No./No. du projet	Sheet/ Feuille A3.1	Revision no./ La Révision no. 0
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Revision/	Description/Description	Date/Date
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'TENDER PACKAGE TWO'
MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.

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Project Manager/Administrateur de Projets

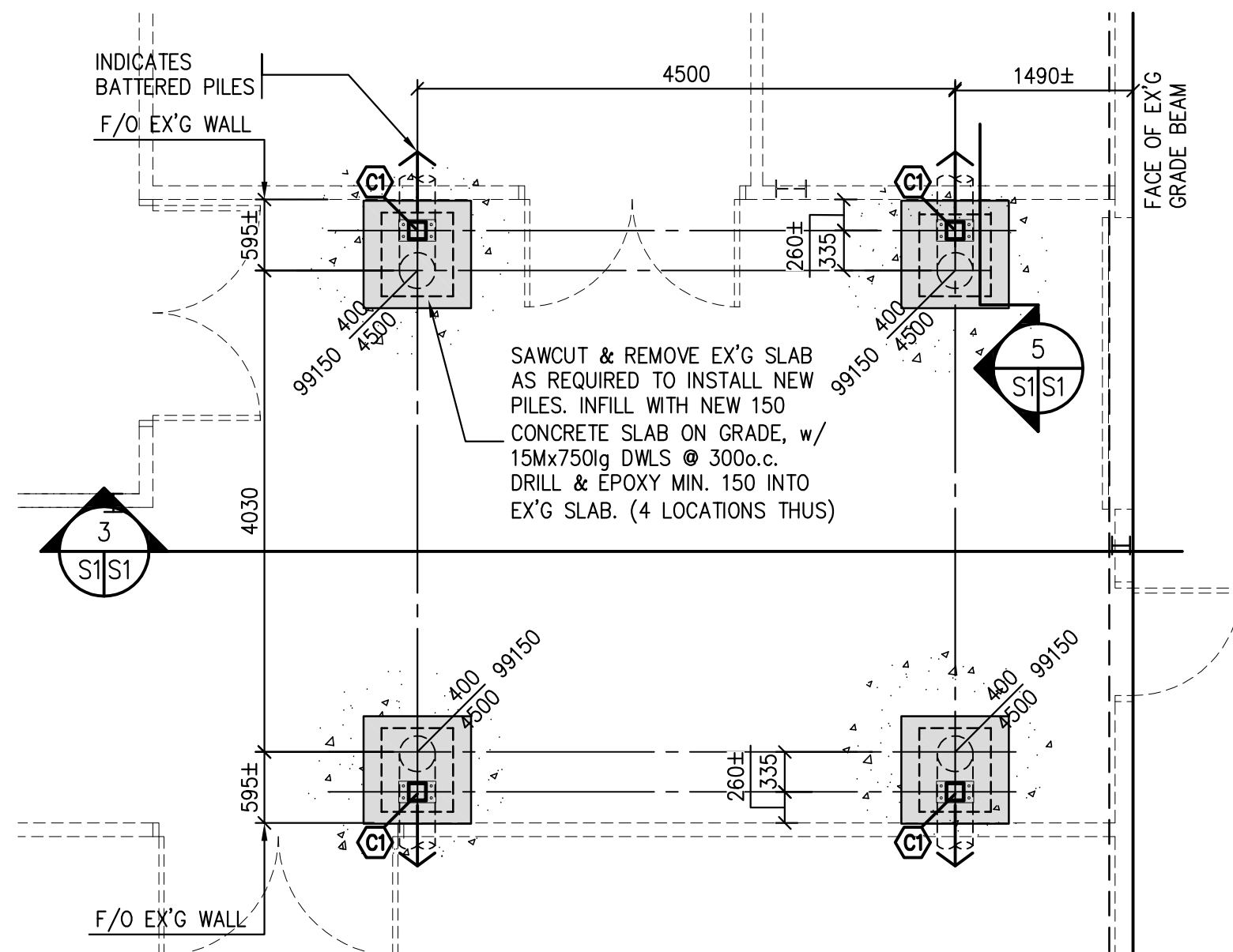
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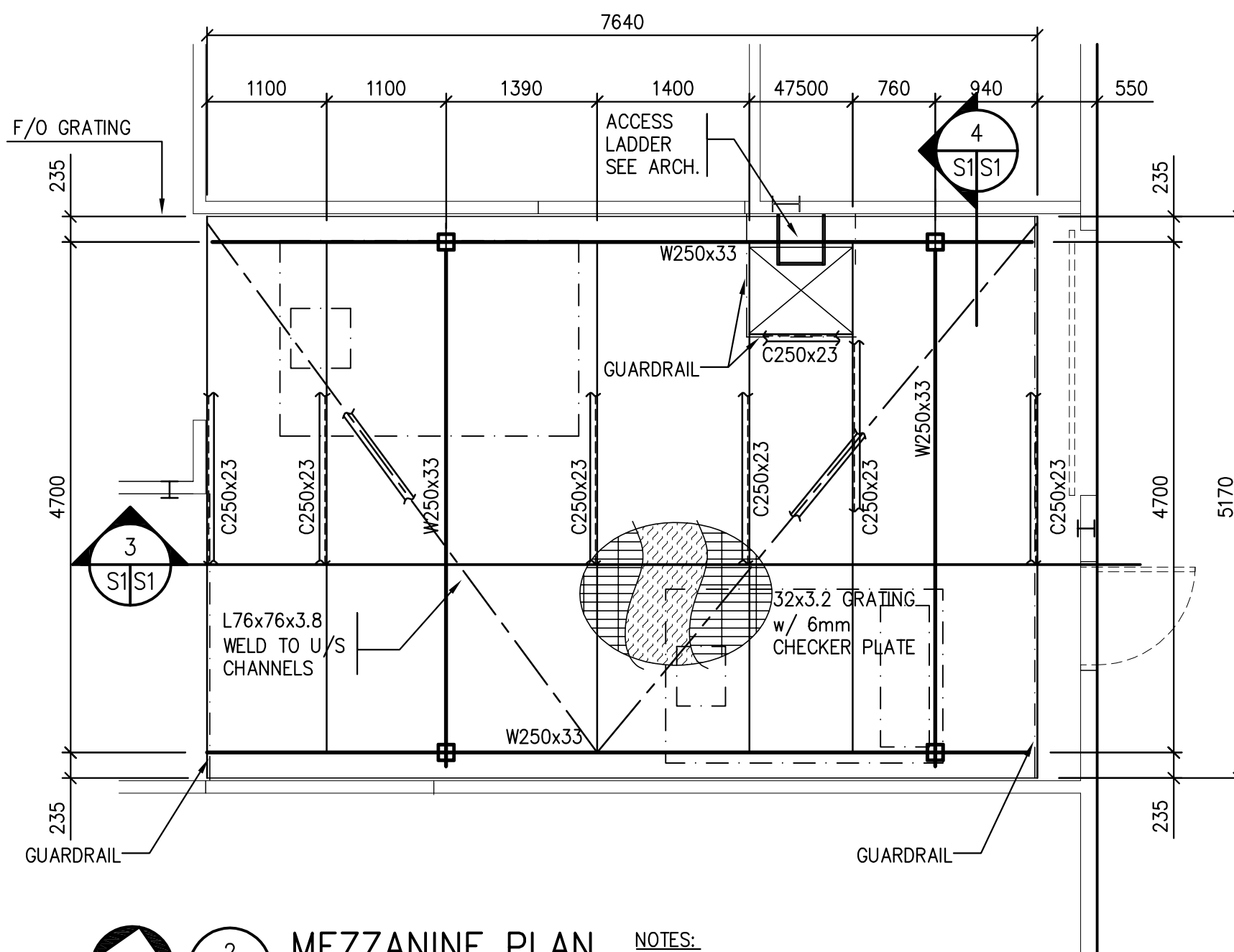
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BUILDING SECTIONS & DETAILS





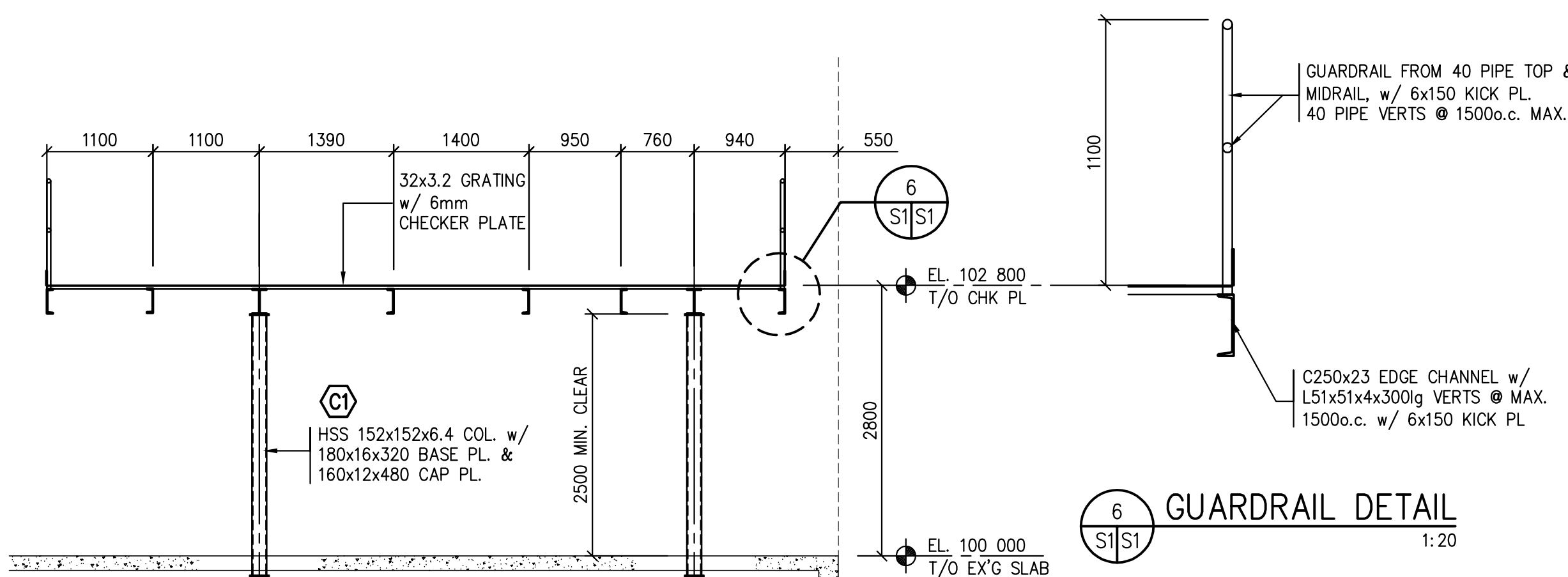
1 PARTIAL MAIN FLOOR PLAN
1:50



2 MEZZANINE PLAN
1:50

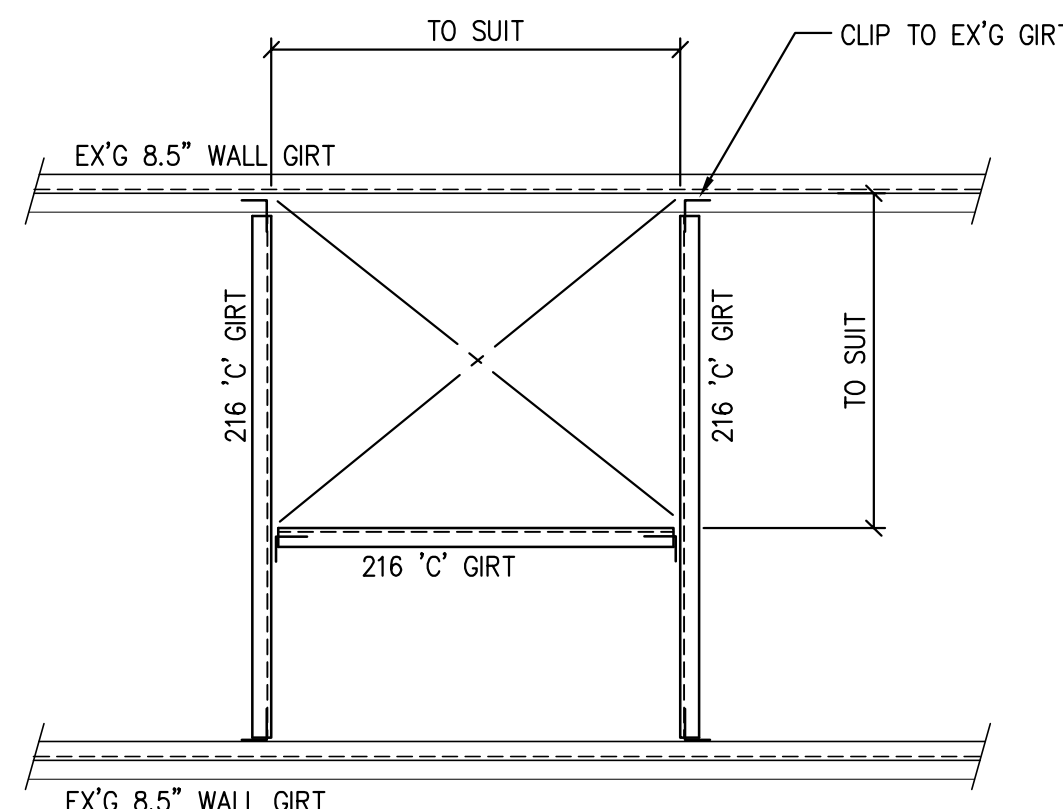
NOTES:

1. MEZZANINE TO BE 32x3.2 GRATING w/ 6mm CHECKER PLATE COVER OVER STEEL BEAMS/CHANNELS.
2. T/O MEZZANINE @ EL 102 800.
3. T/O STEEL BEAMS/CHANNELS @ EL 102 762.
4. MEZZANINE LIVE LOAD = 4.8 kPa
5. MEZZANINE DEAD LOAD = 1.1 kPa
6. GALVANIZE CHECKER PLATE AS PER SECTION 05 12 23 STRUCTURAL STEEL FOR BUILDING.

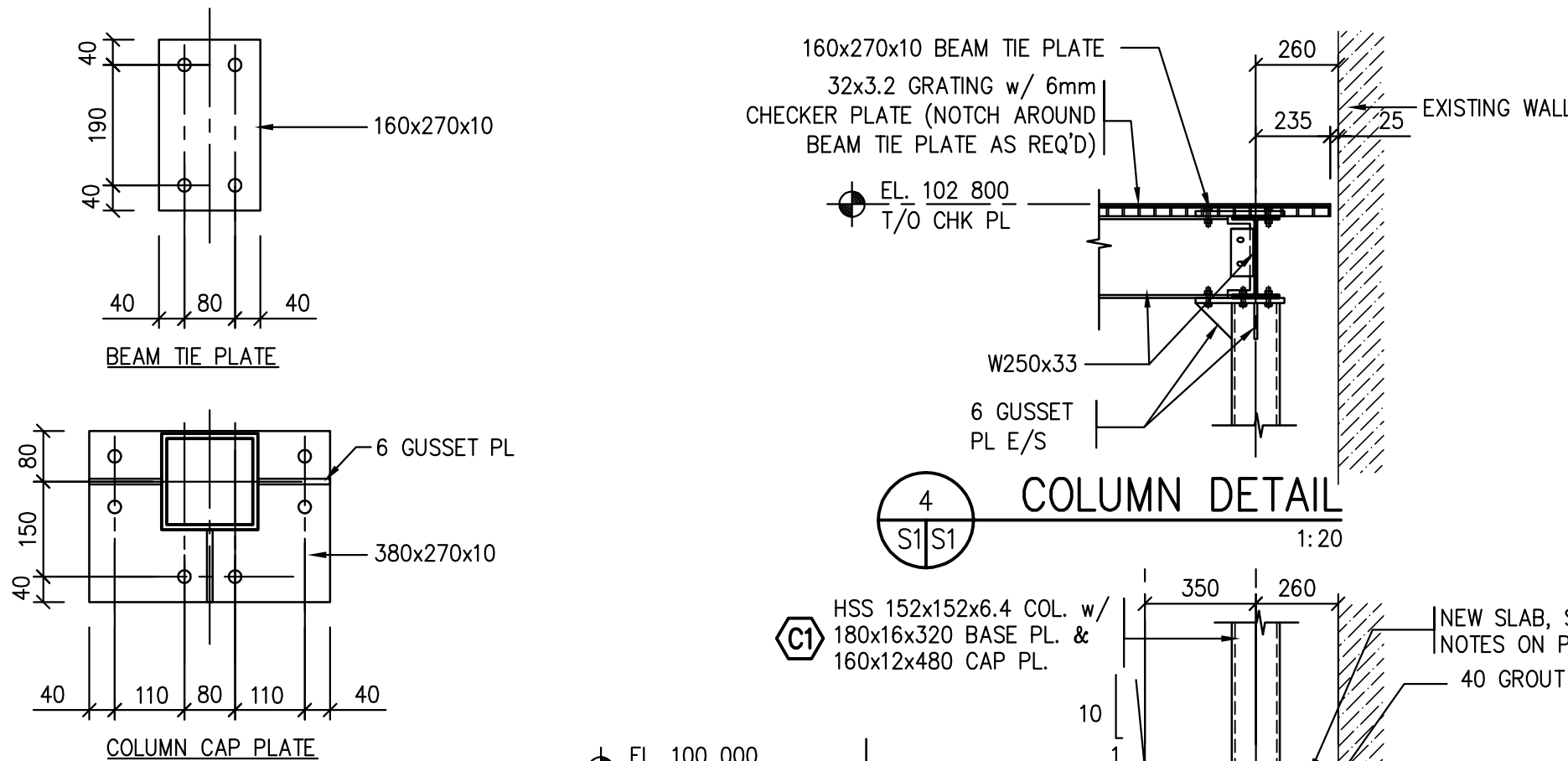


6 GUARDRAIL DETAIL
1:20

3 CROSS SECTION
1:50

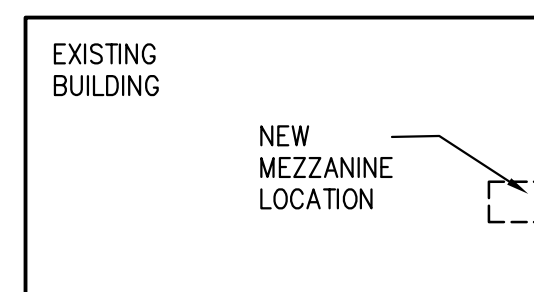


7 NEW OPENING DETAIL
1:20



4 COLUMN DETAIL
1:20

5 PILE CAP DETAIL
1:20



KEY PLAN
NORTH

DRAWING SPECIFICATIONS

DIVISION 1 – GENERAL REQUIREMENTS

1.1 General Notes

1. General Specifications – National Building Code of Canada 2010. Contractor shall read Structural drawings in conjunction with Mechanical drawings. Unless noted otherwise, typical details apply throughout. All dimensions in millimetres.

1.2 Discrepancies

1. Report any discrepancies to the Consultant before proceeding with the work.

1.3 Mechanical Openings

1. Refer to mechanical drawings to confirm size and locations of all openings. Notify Consultant prior to proceeding if conditions differ significantly between drawings.

1.4 Existing Construction

1. All information concerning existing construction has been taken from original drawings and site measurements. Contractor to confirm on site all existing dimensions, elevations and details prior to commencing work. Should information differ significantly from those shown, consult the Consultant prior to proceeding. All existing construction altered or damaged during course of work to be made good to match.

1.5 Shop Drawings

1. Contractor to submit paper or pdf copies of premanufactured structural materials to the Consultant for review prior to fabrication.

DIVISION 2 – SITEWORK

2.1 Bored Piles

1. Excavate pile shaft to minimum dimensions indicated. Provide casing if required due to water, sloughing or caving. Hang reinforcement centrally in hole and place concrete within 12 hours of excavating pile. Vibrate concrete as placing proceeds.

DIVISION 3 – CONCRETE

3.1 Concrete Reinforcement

1. All reinforcing steel, unless noted otherwise, shall be deformed bars of high strength new billet steel conforming to CSA G30.18–09, Grade 400.
2. All reinforcing bars to be continuous, unless noted otherwise.
3. Pile ties and beam stirrups shall conform to CSA G30.18–09, Grade 300.
4. Perform concrete reinforcing in accordance with CSA–A23.1–09

3.2 Cast-in-Place Concrete

1. Perform cast-in-place concrete work in accordance with CSA A23.1–09, "Concrete Materials and Methods of Concrete Construction".
2. Cement to CSA A3000–08, "Portland Cements", and aggregates to CSA–A23.1–04, "Concrete Materials and Methods of Concrete Construction".
3. Submit concrete mix designs to Consultant for review.
4. Proportion normal density concrete in accordance with CSA A23.1–09 Alternative 1, to give the properties in accordance with the following table:

Type	Location	Exposure Class	Strength f'c(MPa)	Aggreg. max(mm)	Slump mm	Total Air %
1.	Piling	S–2	32 @56d	40	80±30	3 to 6
2.	Interior Grade Supported Slabs	N	25 @28d	20	80±30	nil

3.4 Concrete Floor Finishing

1. All interior slabs to be steel trowel finished to flatness of 5 mm in 3000.
2. All non-hardened concrete floors to have minimum 2 applications of acrylic sealant (CPD Acryl Cure & Seal or equivalent).

3.5 Concrete Accessories

1. Concrete Anchors : Sizes as detailed on drawings, Standard embedment and installation as per Manufacturers Specifications.
1. Expansion Wedge Anchors to be Hilti Kwik Bolt 3 or approved alternate.

3.6 Grout

1. Premixed, non-shrink, non-metallic grout with minimum strength at 3 days of 20 MPa, and capable of developing a minimum strength at 28 days of 50 MPa.

DIVISION 5 – METALS

5.1 Structural Steel

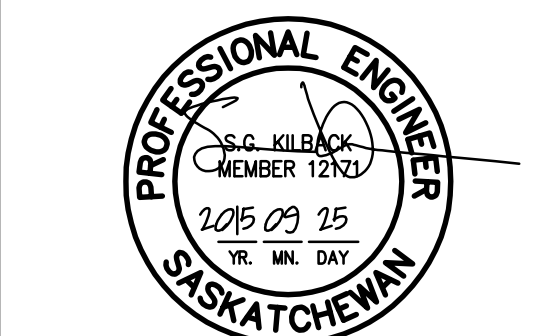
1. Structural size shapes, bar size shapes and welded shapes to CAN/CSA G40.21–04 (R2009)M, 350 MPa Weldable Grade.
2. Hollow structural sections to CAN/CSA G40.21–04 (R2009), 350 MPa Weldable Grade.
3. Plates and bars to CAN/CSA G40.21–04 (R2009), 260 MPa Weldable Grade.
4. Welding material to CSA W59–03 (R2008). Welding to CSA W59–03 (R2008) and CSA W55.3–08. Fabricators and erectors responsible for welding of structures shall be certified by the Canadian Welding Bureau (CWB) to the requirements of CSA Standard W47.1 (Division 1 or Division 2), of CSA Standard W55.3–08, or both, as applicable. Contractor to submit proof of certification with CWB with shop drawings.
5. Bolts, nuts and washers to ASTM A325.
6. Anchor bolts to ASTM A307.
7. Paint for primer as per CGSB L–GP–40d, or CISC/CPMA Standard 1073a. All primer to be grey unless approved otherwise.
8. Fabrication and erection to CAN/CSA S16–01 and CISC Code of Standard Practice.
9. All bolted connections to be "Bearing" type except where subject to stress reversal, which are to be "Slip-Resistant" type connections.
10. All beams to be connected for the greater of the following conditions:
 1. Loads shown on drawings.
 2. 50% of total uniformly distributed load resistance of the member.
 3. 1/2 depth of the connected member using M20 bolts (minimum 2 bolts) in double shear.
11. After erection, prime all welds not shop primed except surfaces to be in contact with concrete.

**PRELIMINARY
NOT FOR CONSTRUCTION**

SEPW Architecture Inc.

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STRUCTURAL ENGINEERS
BROWNLEE BEATON KREKE
3611 PASQUA STREET • REGINA • SK • S4S 6W8
TEL: (306) 384-8833 • EMAIL: bbb@regina.bbkeng.ca



Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
BROWNLEE BEATON KREKE (REGINA) LTD.
NUMBER 525
PERMISSION TO CONSULT HELD BY:
DISCIPLINE: STRUCTURAL MEMBER 12121
SASK. REG. NO. 11386
SIGNATURE: KDK

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Revision/Revised Description/Description Date/Date

Client/client

Project title/Titre du projet

"TENDER PACKAGE TWO"

**MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.**

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Designed by/Concept par
SGK

Drawn by/Dessine par
CG

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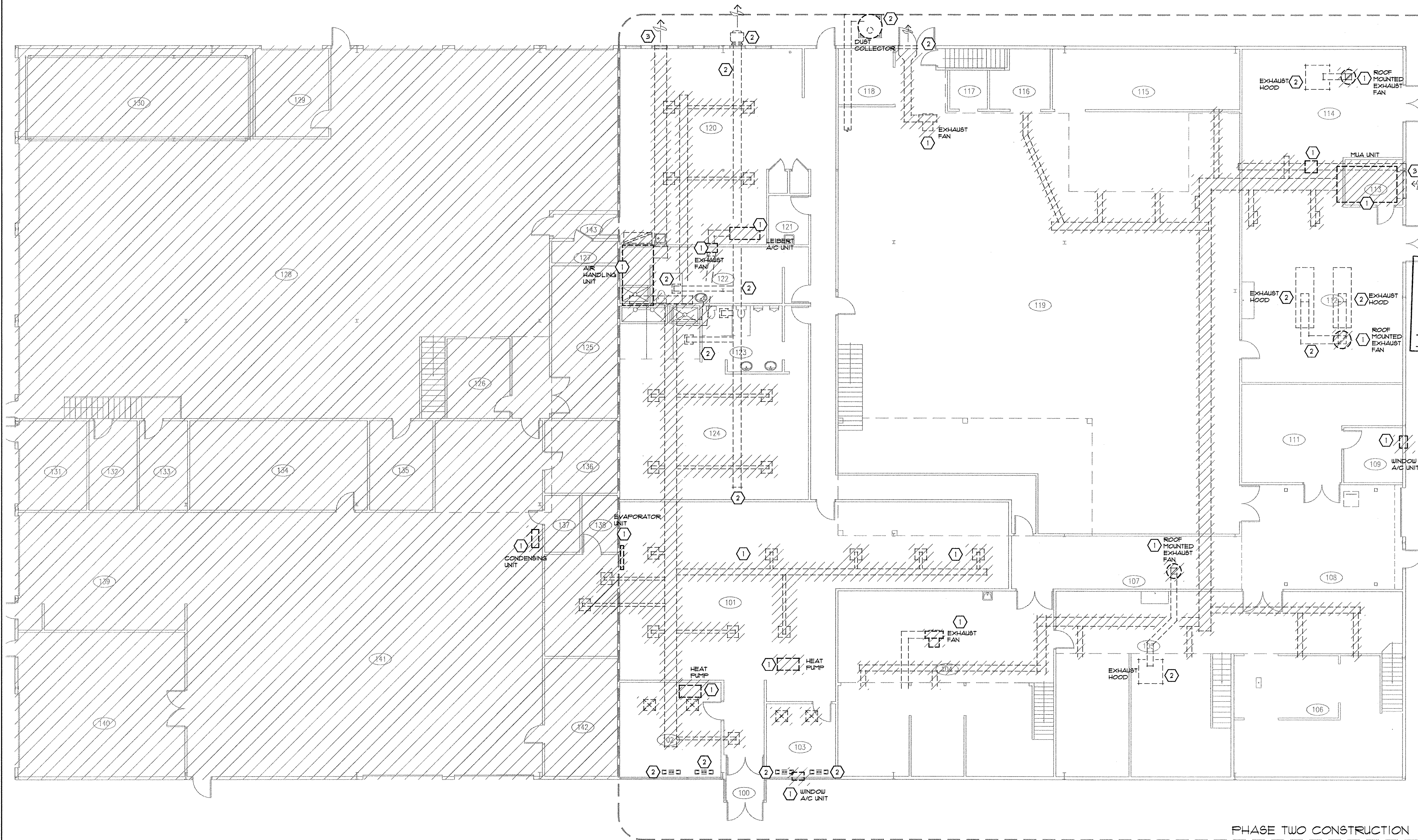
**MAIN FLOOR PLAN
MEZZANINE PLAN
DETAILS**

Project No./No. du projet

Sheet/Feuille
S1

Revision no./La Révision no.





GENERAL NOTES

- HATCHING DENOTES EQUIPMENT, DUCTWORK AND ASSOCIATED HANGERS AND DIFFUSERS/GRILLE TO BE REMOVED. STOCKPILE AS PER SPECIFICATIONS.
- PATCH AND REPAIR ALL WALL ABANDONED ROOF AND WALL PENETRATIONS MADE UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCH AND REPAIR DETAILS.
- ALL BUILDING HEATING SYSTEMS AND COMPONENTS TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE. THE BUILDING HEATING SYSTEM IS TO BE KEPT IN OPERATION DURING CONSTRUCTION.

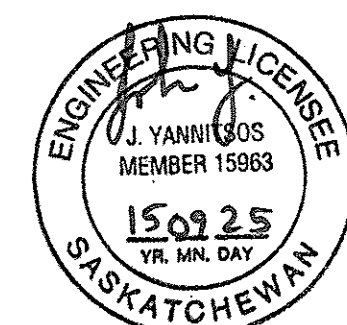
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- EXISTING EQUIPMENT / DUCT / ASSOCIATED HANGERS / DIFFUSER / GRILLE TO BE REMOVED. STOCKPILE AS PER OWNERS INSTRUCTIONS.
- EXISTING EQUIPMENT / DUCT TO REMAIN.
- REMOVE ABANDONED AIR INTAKE LOUVER/HOOD. PATCH AND REPAIR WALL TO MATCH EXISTING.

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Mechanical design group
100 - 2330 15th Avenue, Regina, SK Canada S4P 1A2
phone: (306) 777-0123
fax: (306) 525-4780

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Regina Mechanical Design Group
Number C1553
Permission to Consult held by:
Discipline: Sk. Reg. No. Signature
Mech 15963



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'TENDER PACKAGE TWO'

**MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.**

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J.Y.

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J.Y.

Drawn by/Dessine par
JY

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Architectural and Engineering Resources Manager/
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**MAIN FLOOR PLAN /
MECHANICAL DEMOLITION**

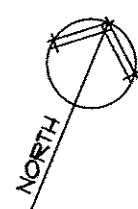
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M1.1





PHASE TWO CONSTRUCTION



MEZZANINE FLOOR PLAN - MECHANICAL DEMOLITION

SCALE: 1:100

GENERAL NOTES

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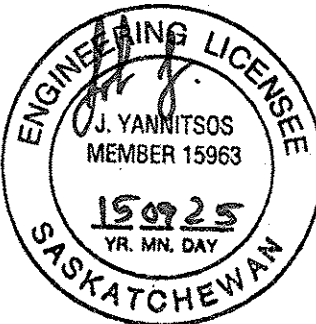
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REGINA, SASK.**

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J.Y.

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Client/client

Drawing title/Titre du dessin

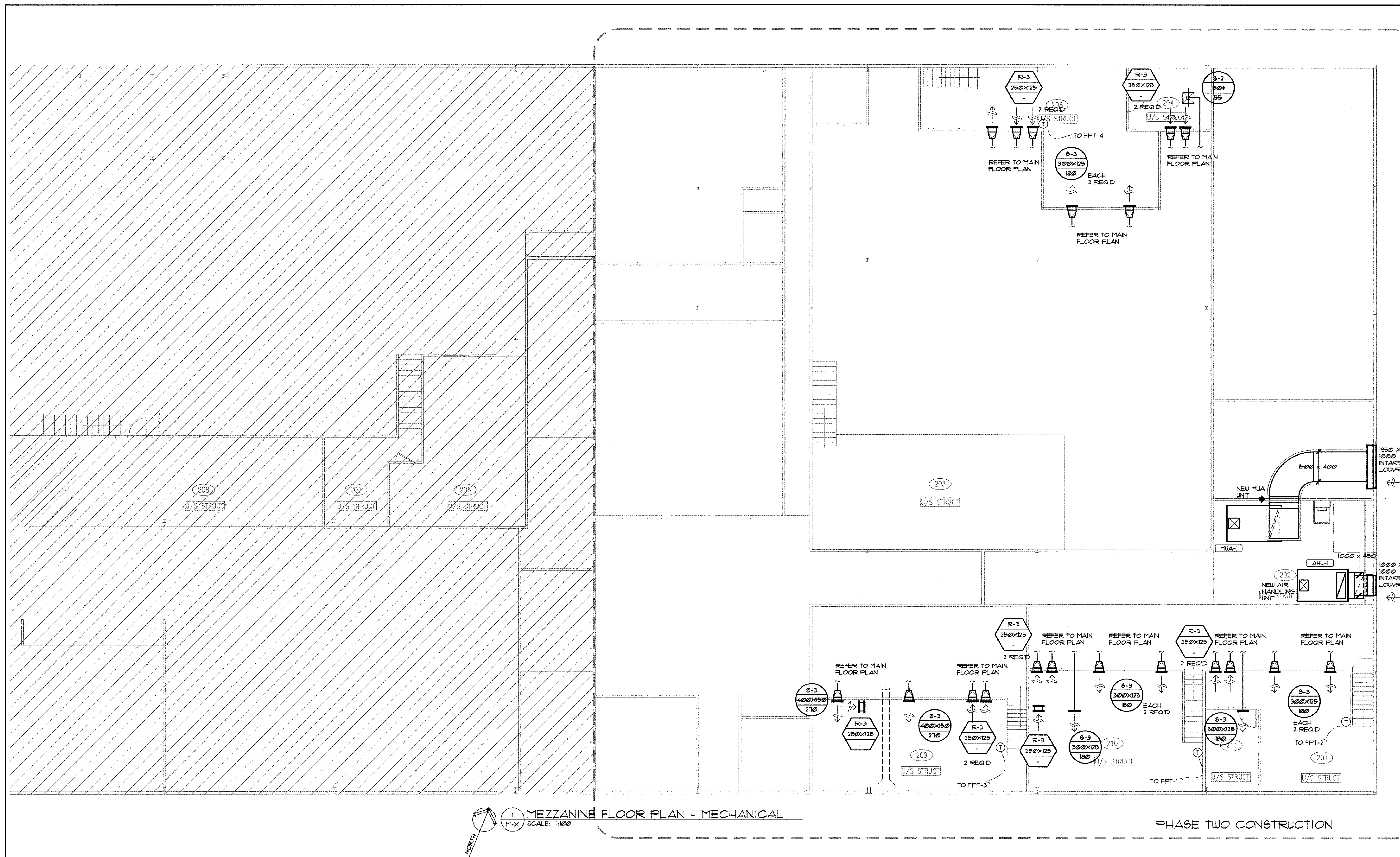
**MEZZANINE FLOOR PLAN /
MECHANICAL DEMOLITION**

Project
No./No. du
projet

Sheet/Fauille
M1.2

Revision no./
La Révision
no.





FAN POWERED AIR TERMINAL SCHEDULE						
No.	SERVING ROOM NUMBER	FAN SIZE	UNIT BOX SIZE	INLET DUCT SIZE	DISCHARGE DUCT SIZE	MAXIMUM SETTING L/S CFM
FPT-1	210 / 210A	20	8	200	300X250	283 600
FPT-2	201 / 211	20	8	200	300X250	283 600
FPT-3	203 / 203A	20	8	200	300X250	330 700
FPT-4	204 / 205	20	8	200	300X250	283 600

AIR VALVE SCHEDULE NOTES:

AIR VALVE SELECTIONS SHALL BE PRICE FDRVLP 5000 FAN POWERED TERMINAL UNIT, PRESSURE INDEPENDANT DIGITAL CONTROLS BY OTHERS.

ALL AIR VALVES ARE TO DELIVER 30% OF MAXIMUM AIR VOLUME DURING HEATING MODE

PROVIDE REDUCERS/INCREASERS AT AIR VALVES TO ACCOMMODATE BRANCH PIPE SIZING WHERE NECESSARY.

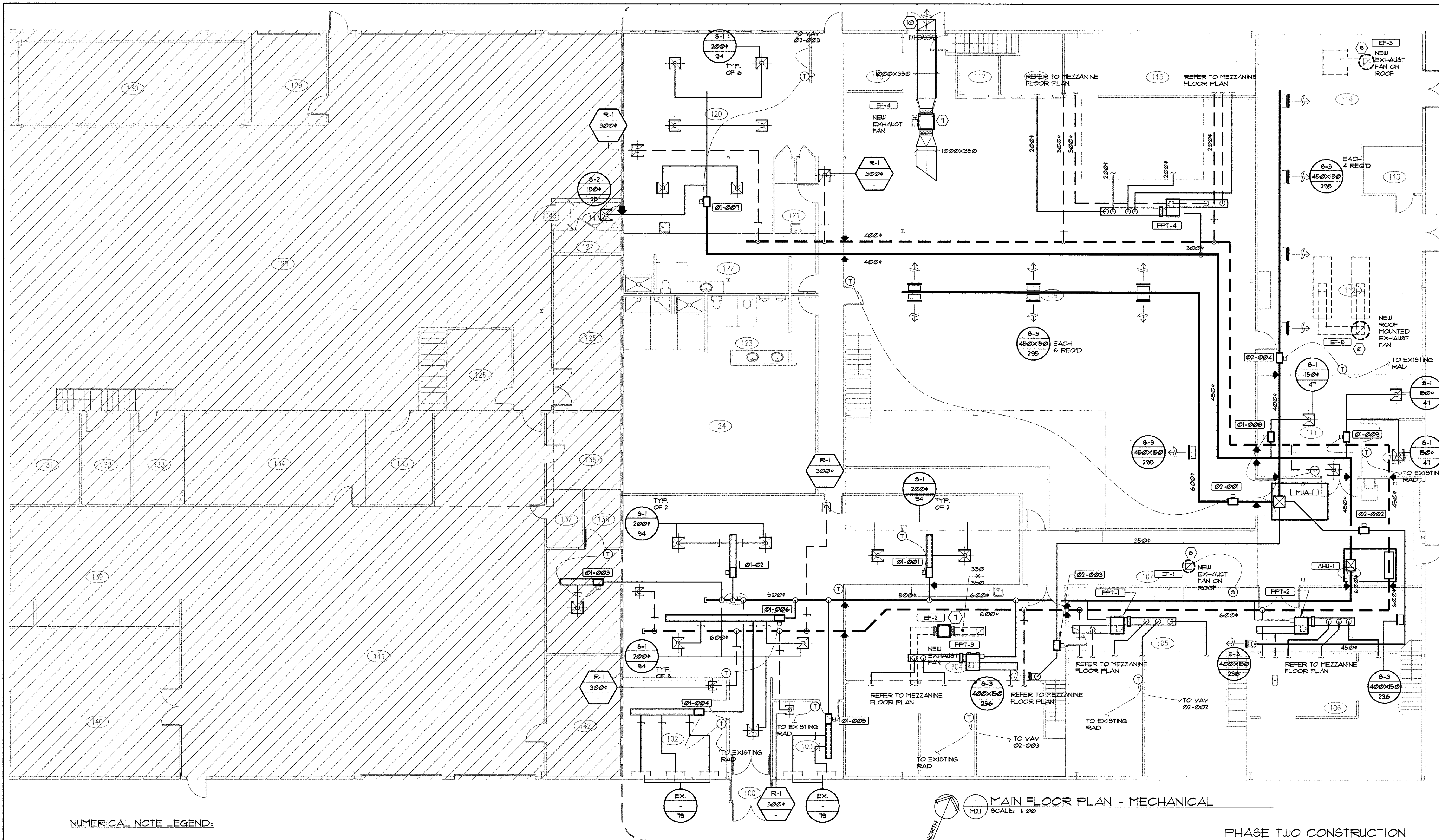
ALL AIR VALVES MINIMUM CAPACITY TO BE 25% OF THEIR MAXIMUM CAPACITY

NEW FAN POWERED BOXES ARE TO BE NORMALLY CLOSED DAMPER
ACTUATOR UNIT CAU ECM MOTOR 2 ROW REHEAT COIL, UNIT SIZE 120, 1/2 HP, 3.5 FLA, 185V/1PH/60HZ.

AIR VALVE SCHEDULE						
No.	SERVING ROOM NUMBER	UNIT BOX SIZE	INLET DUCT SIZE (mm)	DISCHARGE DUCT SIZE (mmxmm)	SETTING (L/S)	
					MAX	MIN
01-001	101A	8	200	300x250	180	47
01-002	101B	8	200	300x250	180	47
01-003		4	100	300x100	50	24
01-004	102	8	200	300x250	237	60
01-005	103	8	200	300x250	158	47
01-006	101B	8	200	300x250	180	47
01-007	120	10	250	350x300	591	145
01-008	III	6	150	300x100	100	25
01-009	105 & 110	6	150	300x100	100	25
02-001	119	16	400	600x450	2200	550
02-002	105	10	250	350x300	471	125
02-003	104	8	200	350x300	235	59
02-004	112	14	350	350x300	1160	210

AIR VALVE SCHEDULE NOTES:

AIR VALVE SELECTIONS SHALL BE PRICE SDV 5000 SINGLE DUCT TERMINAL UNIT.
PRESSURE INDEPENDANT DIGITAL CONTROLS BY OTHERS.

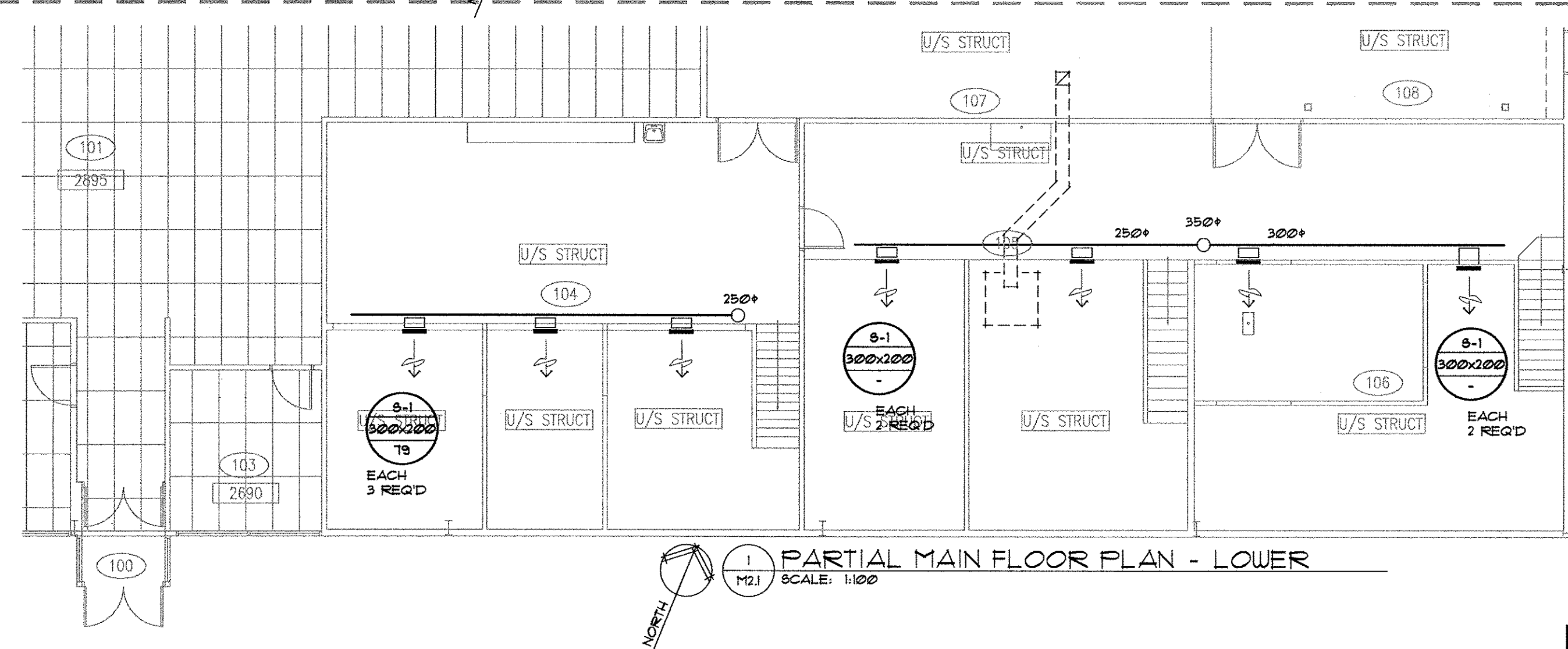


NUMERICAL NOTE LEGEND:

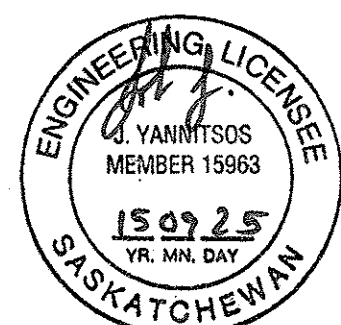
- EXISTING THERMOSTAT RELOCATED FROM ROOM 1206.
- EXISTING ROOFTOP UNITS TO REMAIN UNCHANGED.
- NEW REVERSE ACTING THERMOSTAT INTERLOCKED WITH ROOM #25 EXHAUST FAN.
- NEW 300X300 INTAKE GOOSENECK ON ROOF. MOTORIZED DAMPER INTERLOCKED WITH C.O. DETECTION SYSTEM. REFER TO SPECIFICATIONS FOR CONTROL SEQUENCING.
- DROP EXHAUST DUCT TO LOW LEVEL. REFER DETAIL 2/M2.2. CONFIRM EXACT LOCATION ON SITE TO BEST ACCOMMODATE EXISTING SERVICES AND SITE CONDITIONS.
- DENOTES C.O. DETECTOR. CONFIRM EXACT LOCATION ON SITE TO BEST ACCOMMODATE EXISTING SERVICES AND SITE CONDITIONS.
- NEW EXHAUST FAN LOCATED AT HIGH LEVEL. SUPPORT UNIT FROM STRUCTURE C/W VIBRATION ISOLATORS. EXTEND NEW INAKE AND EXHAUST DUCTWORK AS SHOWN. SIZE AS NOTED. INTERLOCK NEW FAN OPERATION WITH EXISTING BUILDING AUTOMATED CONTROL SYSTEM AS PER SPECIFICATIONS.
- NEW ROOF MOUNTED EXHAUST FAN LOCATED ON EXISTING ROOF CURB. MODIFY EXISTING ROOF CURB AS REQUIRED TO SUITE NEW FAN. EXTEND NEW EXHAUST DUCTWORK AS REQUIRED TO CONNECT TO NEW FAN. INTERLOCK NEW FAN OPERATION WITH EXISTING BUILDING AUTOMATED CONTROL SYSTEM AS PER SPECIFICATIONS.
- CAP AND SEAL ABANDONED EXHAUST DISCHARGE DUCTWORK. INSULATE DUCTWORK INTERNALLY AND CAP DISCHARGE AT EXTERIOR OF BUILDING TO MATCH EXISTING.
- MODIFY EXISTING EXHAUST DUCT OPENING TO SUIT NEW EXHAUST DISCHARGE DUCT. SIZE AS NOTED. TERMINATE WITH GOOSENECK C/W BIRDSCREEN AT HIGH LEVEL.

GENERAL NOTES

- ALL BRANCH DUCTS ARE TO BE C/W LOCKABLE MANUAL BALANCING DAMPERS IN AN ACCESSIBLE LOCATION. OPPOSED BLADE BALANCING DAMPERS ARE TO BE INSTALLED INTEGRAL TO GRILLES WHERE INACCESSIBLE. TYPICAL OF ALL.
- FLEXIBLE DUCTWORK IS ALLOWED EXCEPT WHERE NOTED. FLEXIBLE DUCTWORK IS NOT TO EXCEED 1200mm IN LENGTH. FLEXIBLE DUCTWORK IS ALSO NOT TO BE USED AS AN ELBOW OR IN A VERTICAL POSITION. SUPPORT FLEXIBLE DUCTWORK THROUGHOUT TO PREVENT SAGGING.
- DASHED LINES DENOTES DUCT / EQUIPMENT TO REMAIN.



Mechanical design group
100 - 2330 15th Avenue, Regina, SK Canada S4P 1A2
phone : (306) 777-0123
fax : (306) 525-6780



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0	PACKAGE "SPLIT" - TENDER PACKAGE TWO	2015/09/04
Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
'TENDER PACKAGE TWO'

MECHANICAL UPGRADE WORKS BUILDING REGINA, SASK.

Approved by/Approve par
J.Y.
Designed by/Concept par
J.Y.
Drawn by/Dessine par
Jlg
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client/client

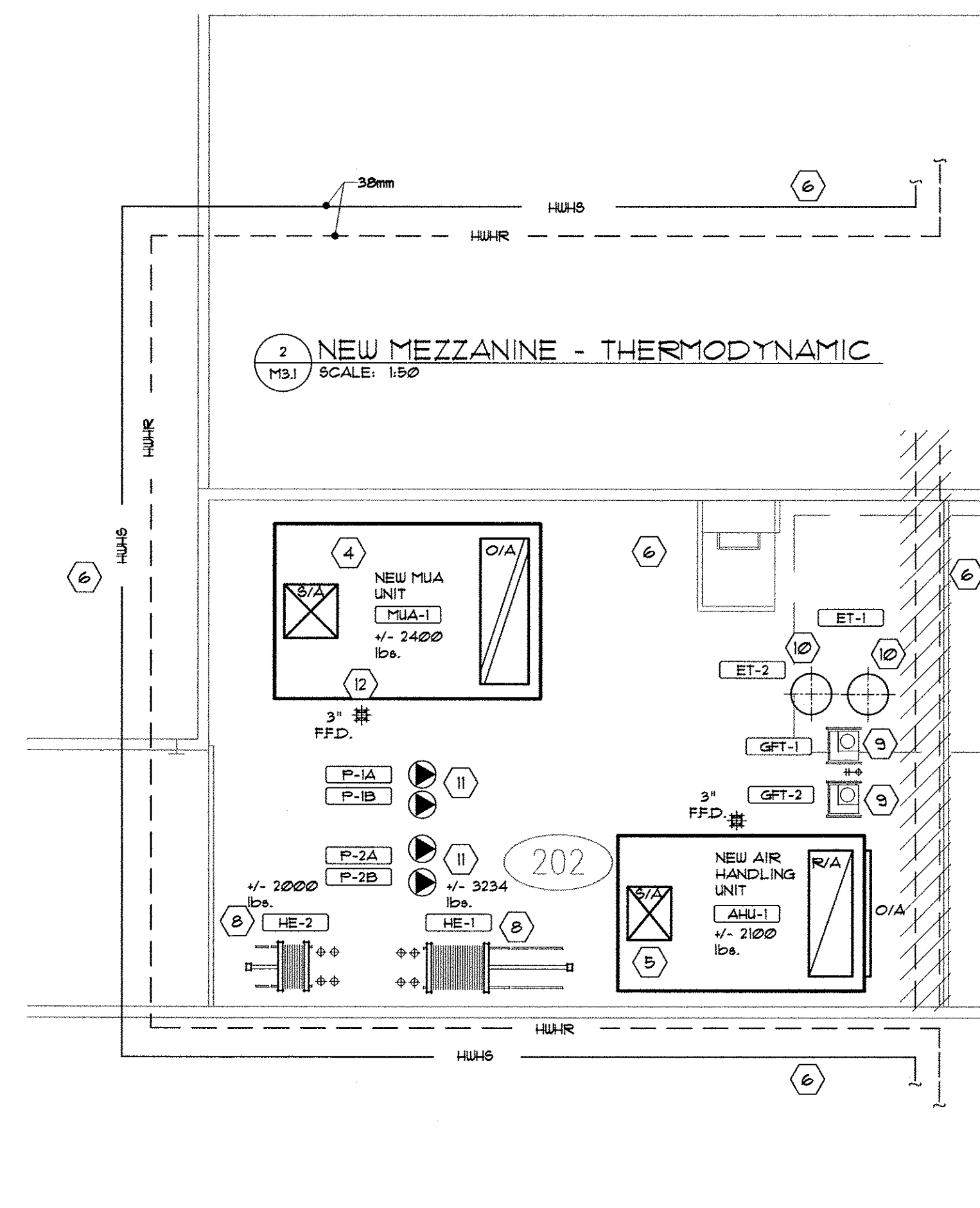
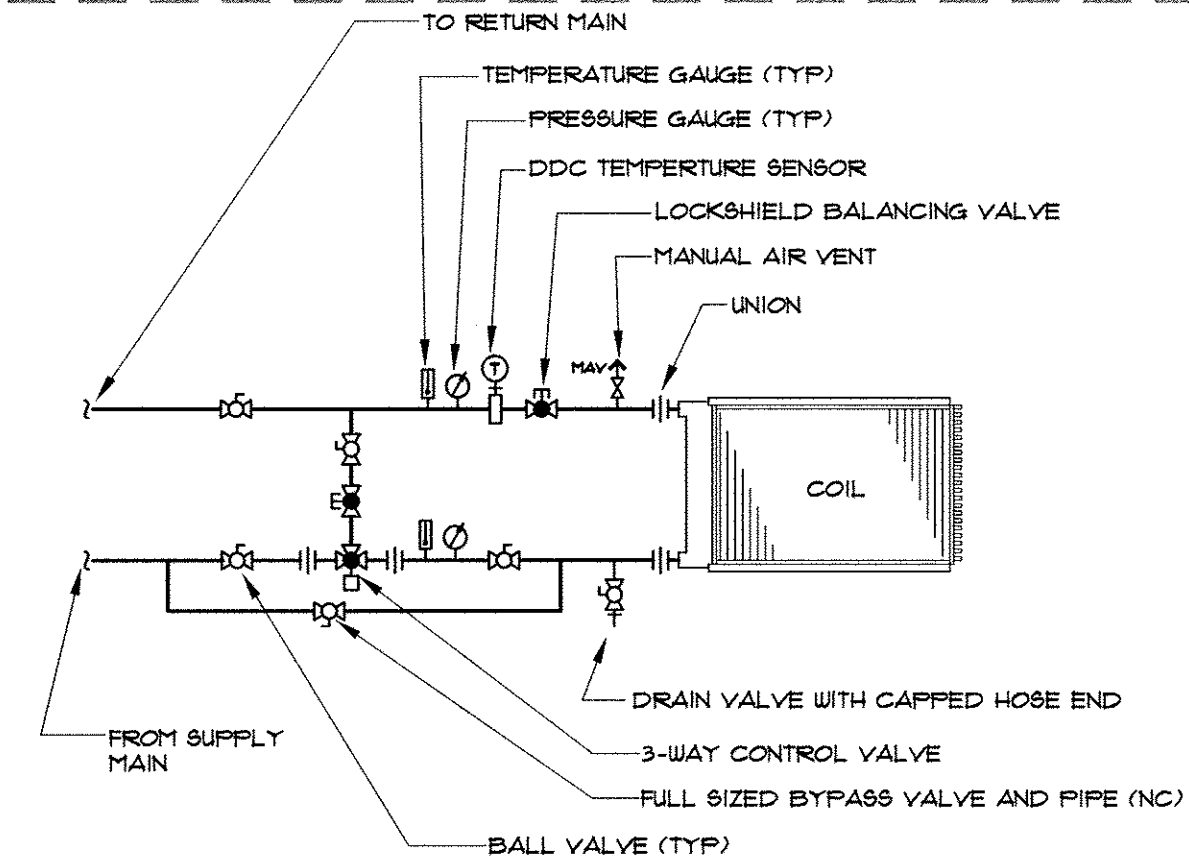
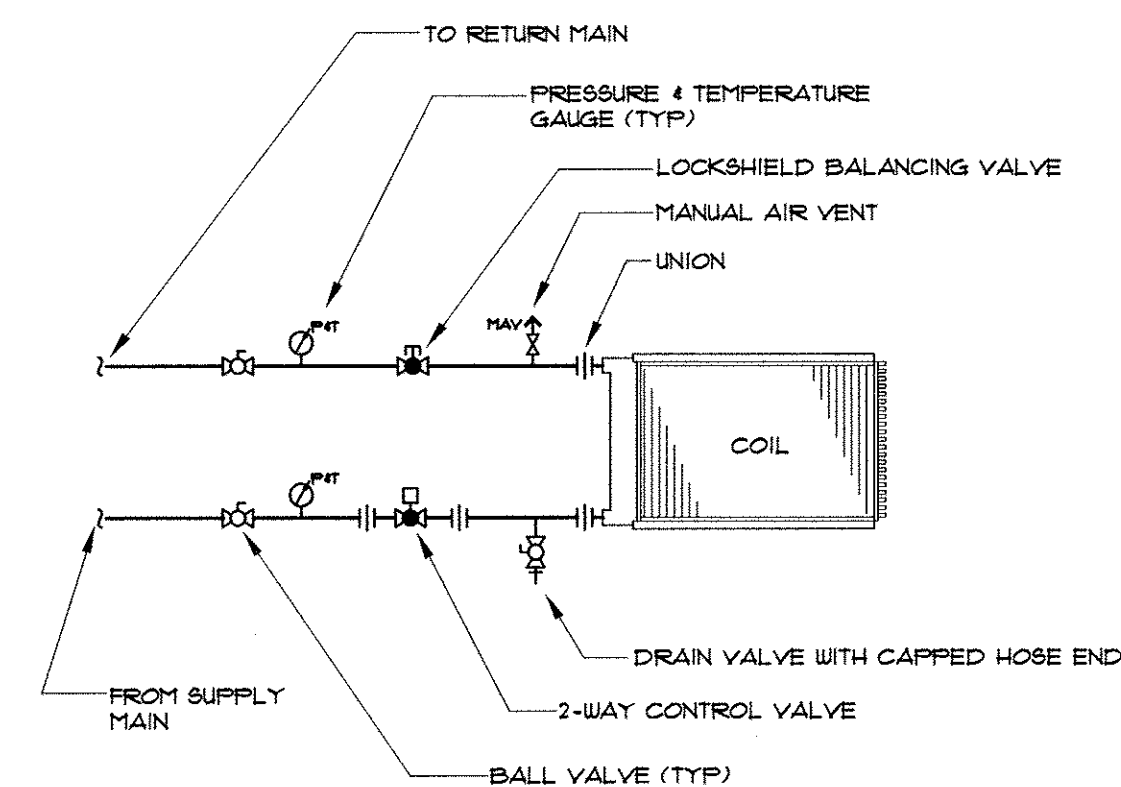
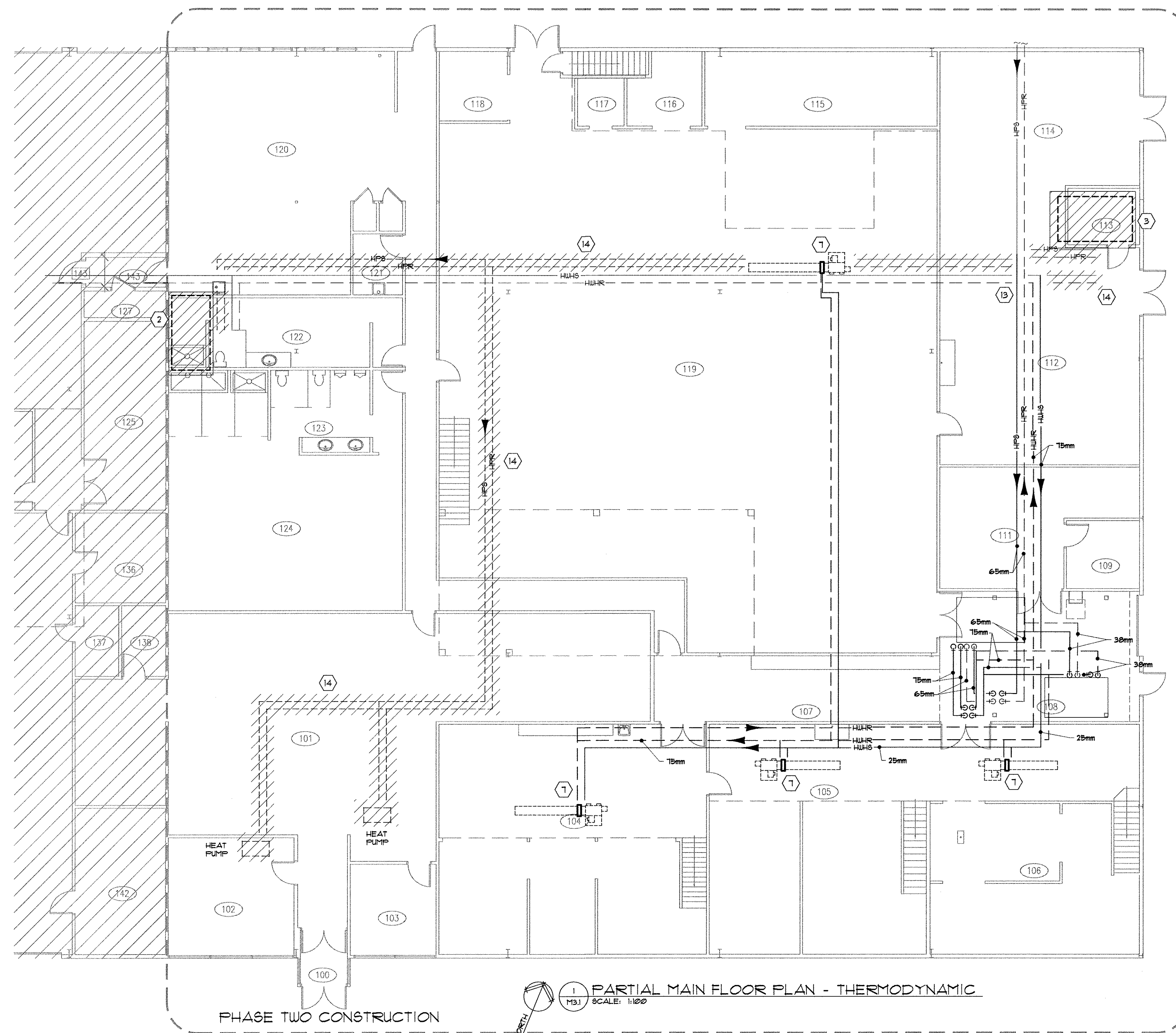
Drawing title/Titre du dessin

MEZZANINE FLOOR PLAN / VENTILATION

Project No./No. du projet
Sheet/Feuille
Revision no./Révision no.

M2.2





GENERAL NOTES

1. REMOVE EXISTING DDC CONTROLS, VALVES, AND REMOVABLE INSULATION BAGS FROM REMOVED MAKE-UP AIR UNITS WHERE POSSIBLE.
2. ALL HEATING PIPING TO BE 20mm UNLESS NOTED OTHERWISE.
3. HATCHING DENOTES EQUIPMENT AND PIPING THAT IS TO BE REMOVED. CAP PIPING AT MAINS AND REMOVE SUPPORTS AND HANGARERS. DASHED LINES DENOTES EXISTING OR DUCT / EQUIPMENT TO REMAIN.

NUMERICAL NOTE LEGEND:

- 1 EXISTING UNIT TO BE REMOVED. INSTALL NEW UNIT IN SAME LOCATION. INSTALL NEW EQUIPMENT AND PIPING AS PER SCHEMATIC DETAIL 1/14/1.
- 2 EXISTING UNIT TO BE REMOVED. MODIFY PIPING AS DETAILED.
- 3 EXISTING UNIT TO BE REMOVED. MODIFY PIPING AS DETAILED.
- 4 INSTALL NEW MUA UNIT. INSTALL NEW EQUIPMENT AND PIPING AS PER SCHEMATIC DETAIL 1/14/1.
- 5 INSTALL NEW AIR HANDLING UNIT. INSTALL NEW EQUIPMENT AND PIPING AS PER SCHEMATIC DETAIL 1/14/1.
- 6 OFFSET EXISTING 30mm HEATING MAIN PIPES TO ALLOW FOR OVERHEAD DOOR RAILS TO BE MOVED TO HIGH LEVEL. REMOVE ABANDONED PIPING. CHANGERS. CONFIRM EXACT LOCATION OF NEW PIPES ON SITE PRIOR TO CONSTRUCTION.
- 7 NEW FAN POWERED VAV BOX. REFER TO PIPING DETAIL 3 THIS SHEET
- 8 NEW FLOOR MOUNTED HEAT EXCHANGER UNIT. REFER TO STRUCTURAL DRAWINGS AND UNIT MANUFACTURER INSTALLATION INSTRUCTIONS FOR MOUNTING DETAILS. EXTEND HEATING PIPING AND VALVES AS PER 1/14/1 SCHEMATIC DETAIL.
- 9 NEW FLOOR MOUNTED GLYCOL FILL TANK AS NOTED. EXTEND HEATING PIPING AND VALVES AS PER 1/14/1 SCHEMATIC DETAIL.
- 10 NEW FLOOR MOUNTED EXPANSION TANK AS NOTED. EXTEND HEATING PIPING AND VALVES AS PER 1/14/1 SCHEMATIC DETAIL.
- 11 NEW INLINE HEATING CIRCULATOR PUMP ASSEMBLY SUPPORTED FROM FLOOR. CAV VIBRATION ISOLATORS. EXTEND HEATING PIPING AND VALVES AS PER 1/14/1 SCHEMATIC DETAIL.
- 12 NEW FLOOR DRAINS. EXTEND NEW 100% SANITARY MAIN PIPE INTO CORRIDOR CEILING AND OVER INTO ROOM #23 CEILING SPACE. DROP PIPE INSIDE ROOM WALL AND CONNECT TO EXISTING SANITARY PIPE BELOW GRADE. CONFIRM EXACT LOCATION AND ROUTING OF PIPE ON SITE. PATCH AND REPAIR WALL AND FLOOR TO MATCH EXISTING.
- 13 EXTEND EXISTING HEATING AND GEOTHERMAL HEAT PUMP LOOP SUPPLY AND RETURN PIPING LOCATED AT HIGH LEVEL AS SHOWN. CONFIRM EXACT LINE IN LOCATION ON SITE PRIOR TO CONSTRUCTION. SIZES AS NOTED.
- 14 REMOVE ABANDONED PIPING CAV HANGERS AS SHOWN. CONFIRM EXACT LOCATION ON SITE PRIOR TO CONSTRUCTION.
- 15 EXTEND EXISTING HEATING SUPPLY AND RETURN PIPING LOCATED AT HIGH LEVEL AND CONNECT TO NEW HEAT EXCHANGER UNIT LOCATED UNDER EXISTING STAIRS. CONFIRM EXACT ROUTING AND LOCATION ON SITE PRIOR TO CONSTRUCTION. SIZES AS NOTED.
- 16 EXTEND NEW HEATING SUPPLY AND RETURN PIPING FROM NEW HEAT EXCHANGER UNIT. LOCATED UNDER EXISTING STAIRS. UP TO NEW MUA UNIT IN ROOM #21. CONFIRM EXACT ROUTING AND LOCATION ON SITE PRIOR TO CONSTRUCTION. SIZES AS NOTED.

SEPW Architecture Inc.

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 □ 102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457
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Association of Professional Engineers & Geoscientists
of Saskatchewan

CERTIFICATE OF AUTHORIZATION

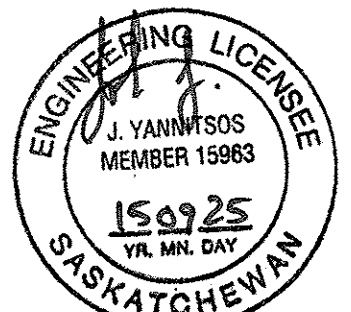
Regina Mechanical Design Group

Number C1553

Permission to Consult held by:

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0	PACKAGE SPLIT-TENDER PACKAGE TWO	2015/09/04
Revision/ Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

'TENDER PACKAGE TWO'

**MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.**

Approved by/Approuve par

J.Y.

Designed by/Concept par
J.Y.

Drawn by

jlg

Project M

**Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie**

Client/client

Drawing title/Titre du dessin

THERMODYNAMICS

Project	S
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projet

Sheet/Feuille

Sheet/Feuille	Revision no./
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La Révision no.	
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SUPPLY

- DIFFUSER TAG DESIGNATION
- NECK SIZE
- AIR FLOW (L/S) - ONLY SHOWN WHERE BALANCING REQUIRED

RETURN

- DIFFUSER TAG DESIGNATION
- SIZE
- AIR FLOW (L/S) - ONLY SHOWN WHERE BALANCING REQUIRED

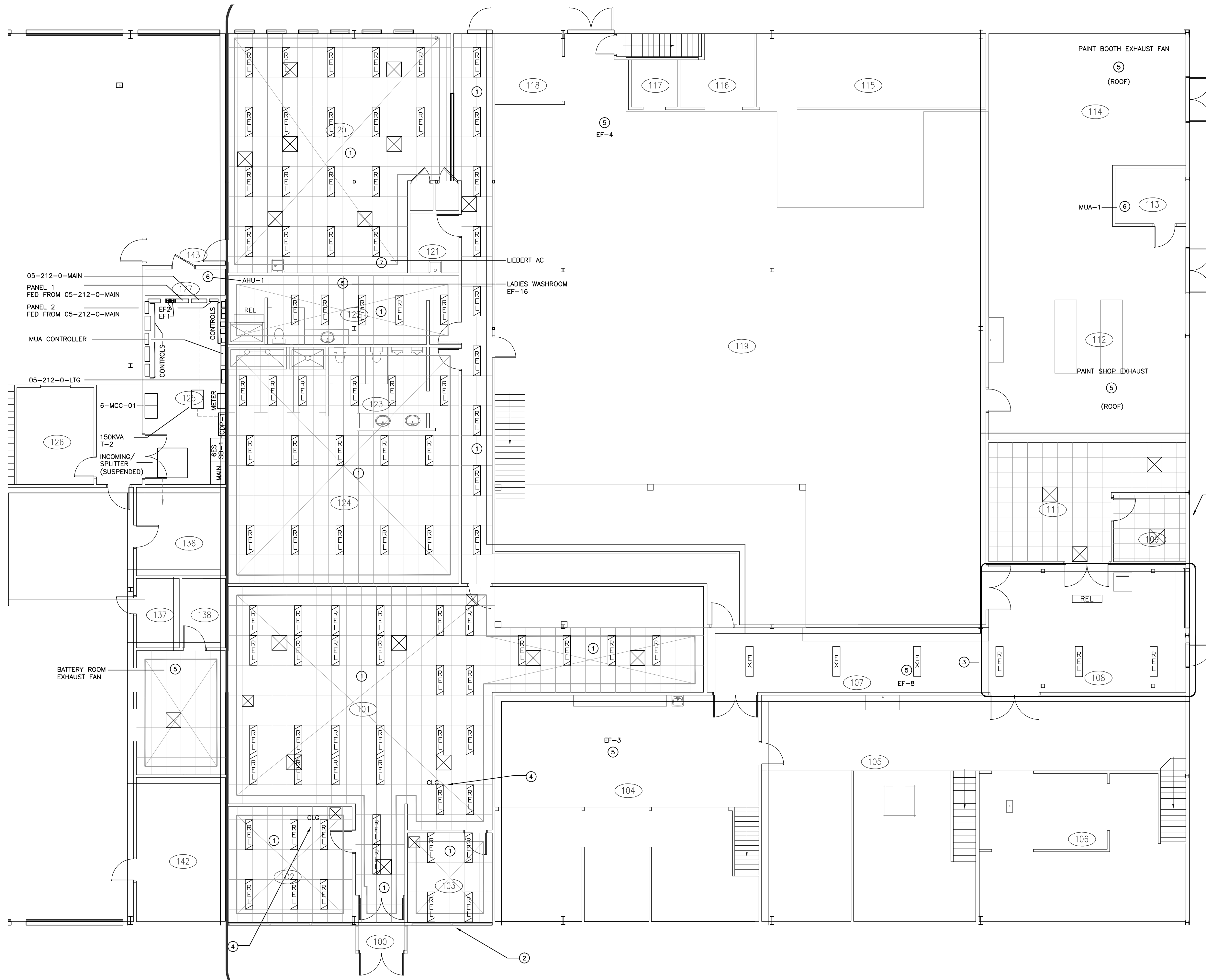
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- AIR FLOW (L/S) - ONLY SHOWN WHERE BALANCING REQUIRED

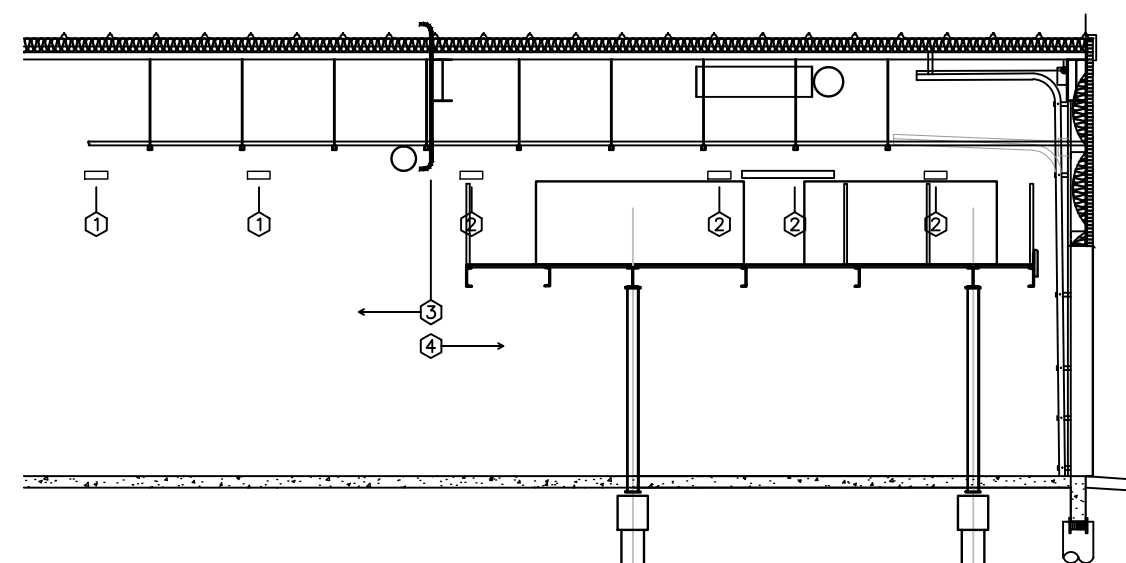
EXHAUST

- DIFFUSER TAG DESIGNATION
- SIZE
- AIR FLOW (L/S) - ONLY SHOWN WHERE BALANCING REQUIRED

	M4.1	
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1 MAIN FLOOR DEMOLITION PLAN
E1.1 1:100



2 107 & 108 DETAIL (NORTH ELEVATION)
E1.1 1:100

107 & 108 DETAIL NOTES

- 1 EXISTING LIGHT FIXTURE SHALL REMAIN.
- 2 EXISTING LIGHT FIXTURE SHALL BE REMOVED AND SALVAGED FOR RELOCATION AS PER E2.1.
- 3 EXISTING UNISTRUT SHALL REMAIN FROM THIS POINT TO WEST WALL OF CORRIDOR 107.
- 4 INTERCEPT ALL CONDUITS/CABLING FROM THIS POINT TO EXTERIOR WALL OF 108.

107 & 108 GENERAL NOTES

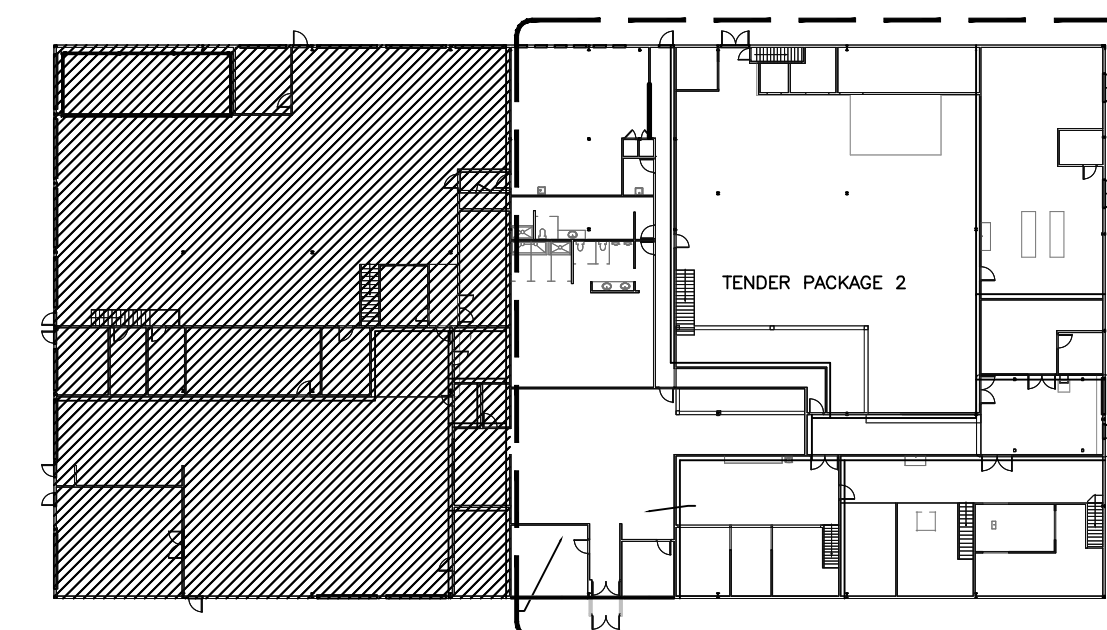
1. DEMOLITION PLAN IS FOR REFERENCE ONLY. LOCATION OF EXISTING LIGHTS, UNISTRUT AND CONDUIT ARE APPROXIMATE ONLY. CONTRACTOR SHALL VISIT THE SITE DURING TENDER TO DETERMINE THE EXTENT OF DEMOLITION/RELOCATION.

MAIN FLOOR DEMOLITION DRAWING NOTES

- 1 EXISTING RECESSED LIGHTING IN THIS AREA SHALL BE REMOVED FOR INSTALLATION OF NEW T-BAR CEILING. ALL EXISTING CIRCUITRY AND SWITCHING SHALL REMAIN. CONTRACTOR SHALL RE-INSTALL ALL LIGHTS IN NEW T-BAR CEILING IN SAME LOCATION AS SHOWN ON DRAWINGS.
- 2 EXISTING PLUG IN TYPE WINDOW AIR CONDITIONER SHALL BE REMOVED. REMOVE ASSOCIATED RECEPTACLE BACK TO SOURCE.
- 3 EXISTING CONDUITS AND UNISTRUT IN CORRIDOR SHALL BE RAISED AND RELOCATED TO BEST SUIT NEW MECHANICAL MEZZANINE AND EQUIPMENT LAYOUT. REFER TO DETAIL 2 ON THIS DRAWING. EXISTING LIGHTS IN THIS AREA SHALL BE REMOVED AND RELOCATED AS PER E2.1. EXIT SIGN, EMERGENCY LIGHT ETC. ABOVE DOOR SHALL BE RELOCATED TO SUIT NEW MECHANICAL MEZZANINE.
- 4 HP-6 AND HP-7, FED FROM MCC IN ELECTRICAL ROOM, SHALL BE REMOVED. EXISTING DISCONNECTS IN MCC SHALL REMAIN AND MARKED AS SPARE.
- 5 EXISTING EXHAUST FAN SHALL BE REMOVED.
- 6 EXISTING MUA / AHU SHALL BE REMOVED.
- 7 EXISTING AC UNIT SHALL BE REMOVED.

MAIN FLOOR DEMOLITION GENERAL NOTES

1. DEMOLITION PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VISIT THE SITE DURING TENDER TO DETERMINE THE EXTENT OF DEMOLITION.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF ALL EXISTING LIGHTING, ELECTRICAL SYSTEMS, COMMUNICATION SYSTEMS, MEDICAL EMERGENCY AND FIRE ALARM SYSTEMS WITHIN THE RENOVATION AREA AS OUTLINED IN THE ELECTRICAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
3. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER, UNLESS OTHERWISE NOTED, AND SHALL BE STOCKPILED AS PER THE OWNER'S INSTRUCTIONS. THE SALVAGEABLE MATERIALS SHALL BE REMOVED FOR THE PURPOSES OF REUSE, AND UNUSED MATERIALS SHALL BE RETURNED AS PER THE OWNER'S INSTRUCTIONS. THE FOLLOWING MATERIALS SHALL BE SALVAGED AND RETURNED TO OWNER: LIGHTING FIXTURES, WIRING DEVICES, NURSE CALL STATIONS AND COMPONENTS, MEDICAL EMERGENCY ALARM PUSHBUTTON STATIONS AND ASSOCIATED MONITOR MODULES AND COVERPLATES, FIRE ALARM FIELD DEVICES.
4. EXISTING LIGHTING FIXTURES AND WIRING DEVICES BEING REMOVED SHALL BE RE-USED/RELOCATED AS SHOWN ON THE FLOOR PLANS. UNUSED FIXTURES AND WIRING DEVICES (SWITCHES, DUPLEX RECEPTACLES) SHALL BE TURNED OVER TO OWNER.
5. ALL ABANDONED CONDUIT, DUCTS, BOXES, WIRE AND CABLE (EXISTING CONDITIONS AND AS A RESULT OF THE RENOVATIONS) SHALL BE COMPLETELY REMOVED BACK TO THE SOURCE OR ORIGIN.
6. ALL EXISTING CEILING POWER DISTRIBUTION (CONDUIT, CABLE, OUTLET BOXES) THAT IS ABANDONED BY THE RENOVATION SHALL BE COMPLETELY REMOVED BACK TO THE EXISTING ELECTRICAL PANELS.
7. ALL EXISTING DATA AND VOICE CABLING, CONDUITS AND TRAY THAT IS ABANDONED SHALL BE COMPLETELY REMOVED BACK TO THE SIX BLOCKS OR DATA RACK, WHICH SHALL REMAIN.
8. EXISTING ELECTRICAL DEVICES ON WALLS NOT AFFECTED BY THE RENOVATION THAT ARE NOT SHOWN ON THE DRAWINGS SHALL REMAIN.
9. WHERE WALLS ARE TO BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS AND FIRE ALARM DEVICES.
10. ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SPEAKERS, EMERGENCY LIGHT FIXTURES AND REMOTE HEADS, EXIT SIGNS, FIRE ALARM DEVICES, SECURITY DEVICES ETC., WITHIN DEMOLITION AREA SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. CEILING MOUNTED DEVICES REQUIRING ADJUSTMENT, DUE TO NEW T-BAR INSTALLATION, SHALL BE REMOVED AND RE-INSTALLED IN SAME GENERAL LOCATION.
11. ALL ELECTRICAL PROVISIONS ASSOCIATED WITH DEMOLISHED EQUIPMENT SHALL BE REMOVED BACK TO SOURCE. ALL EQUIPMENT SHALL BE TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.



2 MAIN FLOOR AREA OF WORK KEY PLAN
E1.1 1:500



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100-3718 Keweenaw Place, Saskatoon, SK S7P 0A6 ph: (306) 653-6467
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NUMBER 52

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ELECTRICAL 9273

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Revision/Revision Description/Description Date/Date
Client/client

Project title/Titre du projet

'TENDER PACKAGE TWO'
**MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.**

Approved by/Approuvé par

Designed by/Concept par

Drawn by/Dessiné par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

**MAIN FLOOR
DEMOLITION PLAN**

Project No./No. du projet Sheet/Feuille Revision no./La Révision no.

E1.1

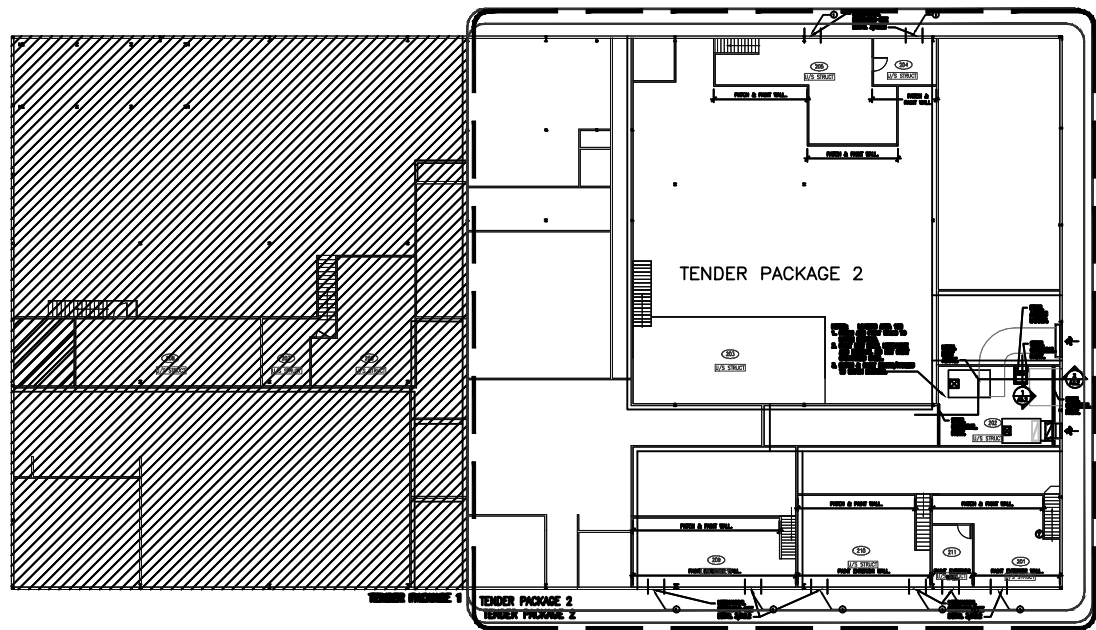


MEZZANINE DEMOLITION DRAWING NOTES

1. EXISTING PLUG IN TYPE WINDOW AIR CONDITIONER SHALL BE REMOVED. REMOVE ASSOCIATED RECEPTACLE BACK TO SOURCE.

MEZZANINE GENERAL DEMOLITION NOTES

- DEMOLITION PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VISIT THE SITE DURING TENDER TO DETERMINE THE EXTENT OF DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF ALL EXISTING LIGHTING, ELECTRICAL SYSTEMS, COMMUNICATION SYSTEMS, MEDICAL EMERGENCY AND FIRE ALARM SYSTEMS WITHIN THE RENOVATION AREA AS OUTLINED IN THE ELECTRICAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
- ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER, UNLESS OTHERWISE NOTED, AND SHALL BE STOCKPILED AS PER THE OWNER'S INSTRUCTIONS. THE SALVAGEABLE MATERIALS SHALL BE REMOVED FOR THE PURPOSES OF REUSE, AND UNUSED MATERIALS SHALL BE RETURNED AS PER THE OWNER'S INSTRUCTIONS. THE FOLLOWING MATERIALS SHALL BE SALVAGED AND RETURNED TO OWNER: LIGHTING FIXTURES, WIRING DEVICES, NURSE CALL STATIONS AND COMPONENTS, MEDICAL EMERGENCY ALARM PUSHBUTTON STATIONS AND ASSOCIATED MONITOR MODULES AND COVERPLATES, FIRE ALARM FIELD DEVICES.
- EXISTING LIGHTING FIXTURES AND WIRING DEVICES BEING REMOVED SHALL BE RE-USED/RELOCATED AS SHOWN ON THE FLOOR PLANS. UNUSED FIXTURES AND WIRING DEVICES (SWITCHES, DUPLEX RECEPTACLES) SHALL BE TURNED OVER TO OWNER.
- ALL ABANDONED CONDUIT, DUCTS, BOXES, WIRE AND CABLE (EXISTING CONDITIONS AND AS A RESULT OF THE RENOVATIONS) SHALL BE COMPLETELY REMOVED BACK TO THE SOURCE OR ORIGIN.
- ALL EXISTING CEILING POWER DISTRIBUTION (CONDUIT, CABLE, OUTLET BOXES) THAT IS ABANDONED BY THE RENOVATION SHALL BE COMPLETELY REMOVED BACK TO THE EXISTING ELECTRICAL PANELS.
- ALL EXISTING DATA AND VOICE CABLING, CONDUITS AND TRAY THAT IS ABANDONED SHALL BE COMPLETELY REMOVED BACK TO THE BIX BLOCKS OR DATA RACK, WHICH SHALL REMAIN.
- EXISTING ELECTRICAL DEVICES ON WALLS NOT AFFECTED BY THE RENOVATION THAT ARE NOT SHOWN ON THE DRAWINGS SHALL REMAIN.
- WHERE WALLS ARE TO BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS AND FIRE ALARM DEVICES.
- ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SPEAKERS, EMERGENCY LIGHT FIXTURES AND REMOTE HEADS, EXIT SIGNS, FIRE ALARM DEVICES, SECURITY DEVICES ETC., WITHIN DEMOLITION AREA SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. CEILING MOUNTED DEVICES REQUIRING ADJUSTMENT, DUE TO NEW T-BAR INSTALLATION, SHALL BE REMOVED AND RE-INSTALLED IN SAME GENERAL LOCATION.
- ALL ELECTRICAL PROVISIONS ASSOCIATED WITH DEMOLISHED EQUIPMENT SHALL BE REMOVED BACK TO SOURCE. ALL EQUIPMENT SHALL BE TURNED OVER TO OWNER FOR FIRST RIGHT OF REFUSAL.



MEZZANINE AREA OF WORK KEY PLAN
2
E2.1
1:500

MEZZANINE DEMOLITION PLAN
1
E1.2
1:100



ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
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Revision/	Description/Description	Date/Date
Revision		

Client/client

Project title/Titre du projet

'TENDER PACKAGE TWO'
MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.

Approved by/Approuvé par

Designed by/Concept par

Drawn by/Dessiné par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

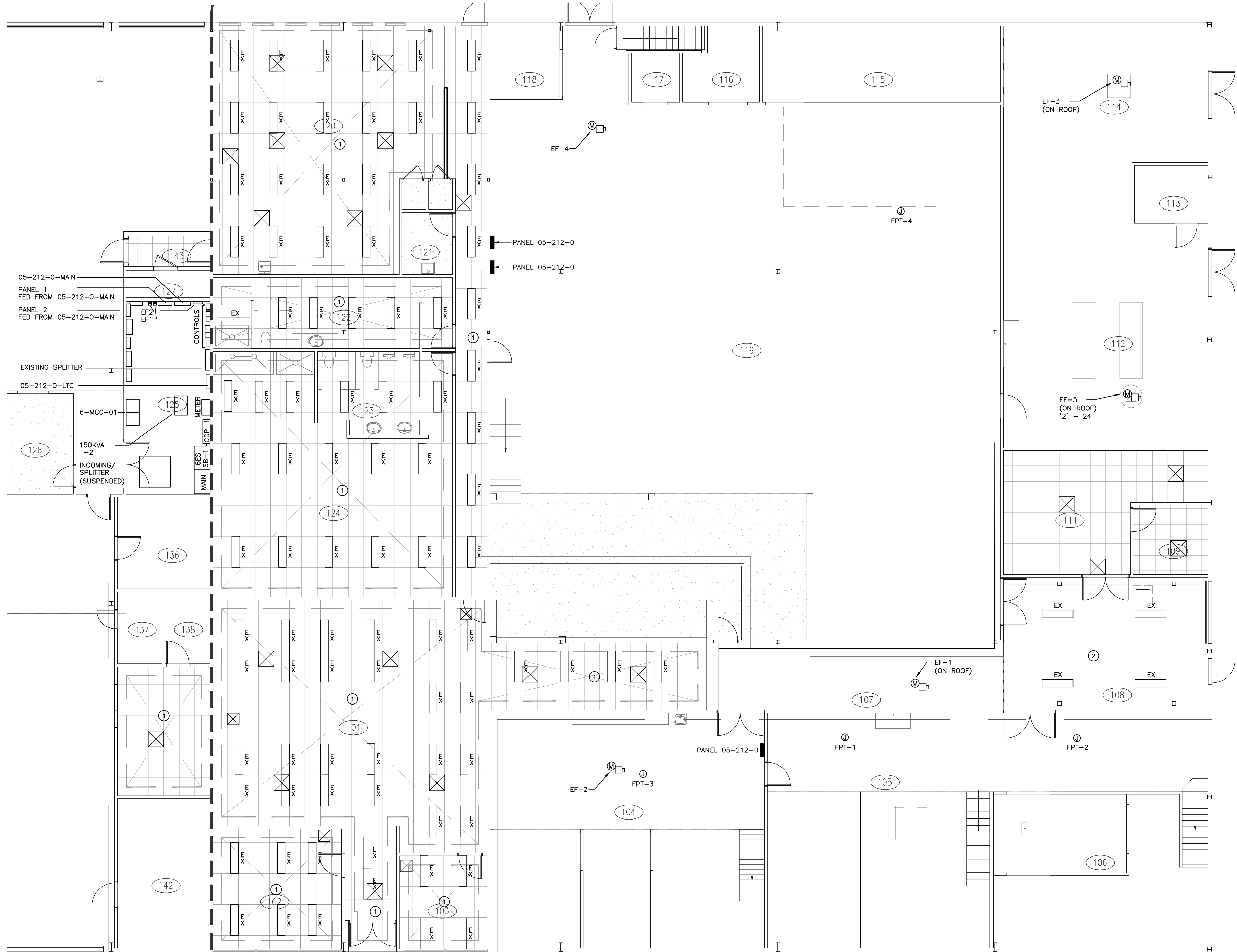
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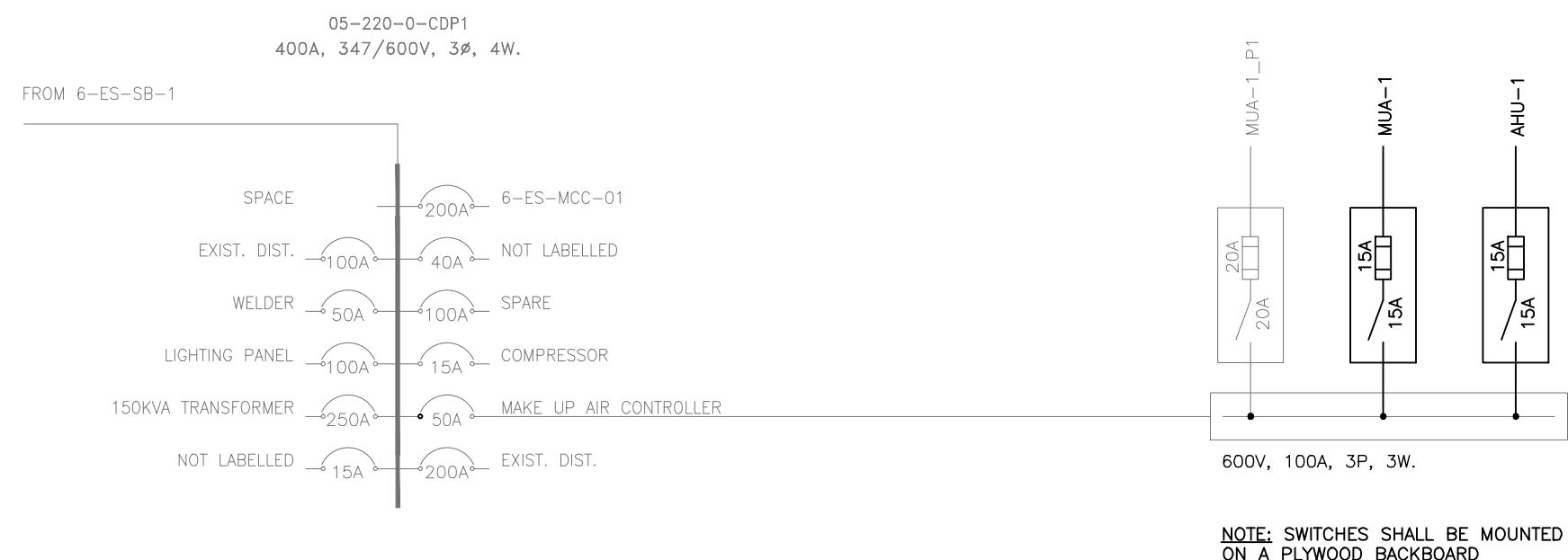
MEZZANINE
DEMOLITION PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
	E1.2	





TENDER PACKAGE 1 |
1
E2.1
1:100
MAIN FLOOR POWER & SYSTEMS PLAN



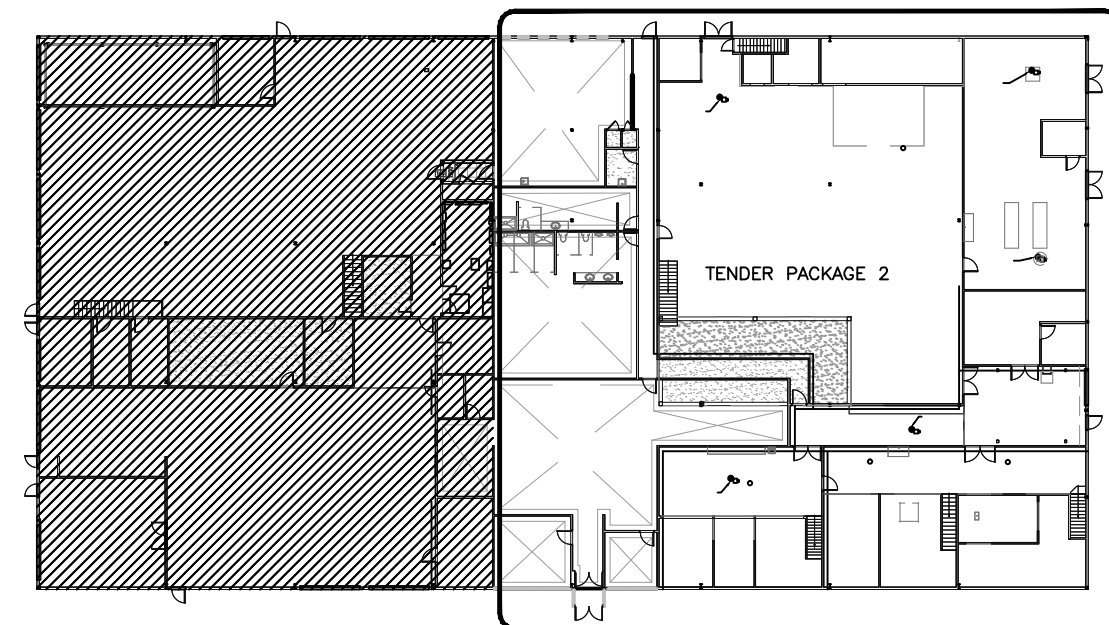
2
E2.1
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EXISTING MUA SPLITTER

MAIN FLOOR DRAWING NOTES

- EXISTING RECESSED LIGHTING IN THIS AREA SHALL BE REMOVED FOR INSTALLATION OF NEW T-BAR CEILING. ALL EXISTING CIRCUITRY AND SWITCHING SHALL REMAIN. CONTRACTOR SHALL RE-INSTALL ALL LIGHTS IN NEW T-BAR CEILING.
- OWNER SUPPLIED FIXTURES (TYPE 'EX' ROOM 108) SHALL BE INSTALLED UNDER MEZZANINE AND TIED INTO NEAREST 347V LIGHTING CIRCUIT. LIGHTS SHALL BE TIED EXISTING SWITCH CONTROL.

MAIN FLOOR GENERAL NOTES

- ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SPEAKERS, EMERGENCY LIGHT FIXTURES AND REMOTE HEADS, EXIT SIGNS, FIRE ALARM DEVICES, SECURITY DEVICES ETC., WITHIN DEMOLITION AREA SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. CEILING MOUNTED DEVICES, OR DEVICES REQUIRING ADJUSTMENT DUE TO NEW T-BAR INSTALLATION, SHALL BE REMOVED AND RE-INSTALLED IN SAME GENERAL LOCATION.
- CONTRACTOR SHALL COORDINATE EXHAUST FAN NUMBERS WITH OWNER PRIOR TO LABELING AND UPDATING PANEL SCHEMATICS.
- RECESSED LIGHTS SHALL BE INSTALLED IN SAME LOCATION, AS NOTED ON DEMOLITION DRAWINGS.
- CABLING FOR 15A, 120V SHALL BE AS LISTED BELOW:
#12 RW90 CONDUCTOR UP TO 20m
#10 RW90 CONDUCTOR UP TO 40m
#8 RW90 CONDUCTOR UP TO 55m

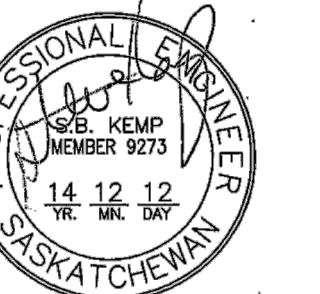


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MAIN FLOOR AREA OF WORK KEY PLAN

SEPW Architecture Inc.

100 - 3725 Phoenix Street, Regina, SK S4S 0A8 ph: (306) 569-2555
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0	PACKAGE SPLIT-TENDER PACKAGE TWO	2015/09/24

Revision/Revision Description/Description Date/Date
Client/client

Project title/Titre du projet
'TENDER PACKAGE TWO'
MECHANICAL UPGRADE
WORKS BUILDING
REGINA, SASK.

Approved by/Approuvé par

Designed by/Concept par

Drawn by/Dessiné par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client/client

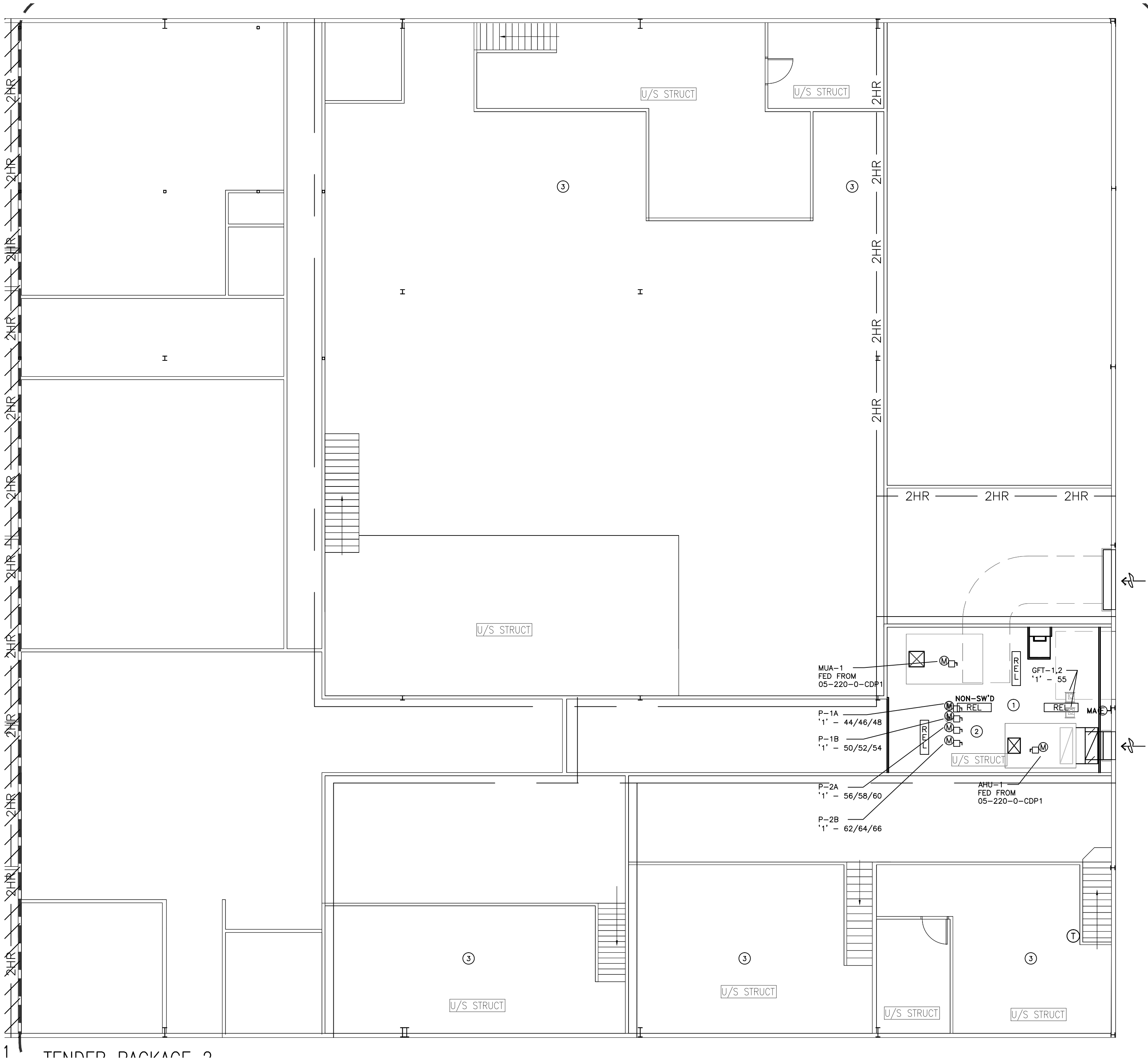
Drawing title/Titre du dessin

MAIN FLOOR
ELECTRICAL POWER PLAN

Project No./No. du projet
Sheet/Feuille
Revision no./La Révision no.

E2.1





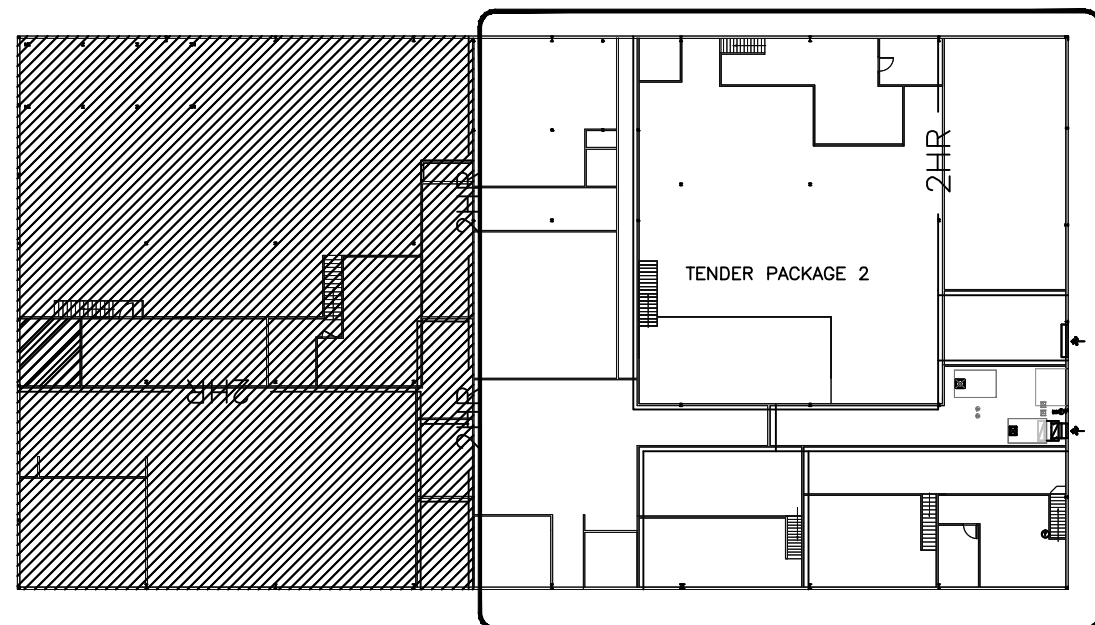
MEZZANINE POWER & SYSTEMS PLAN
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MEZZANINE DRAWING NOTES

- RELOCATED LIGHTS RAISED AND REINSTALLED TO BEST SUIT NEW MECHANICAL EQUIPMENT LAYOUT. NEW EMERGENCY LIGHT SHALL BE TIED INTO SAME LIGHTING CIRCUIT. LIGHTS SHALL REMAIN TIED INTO EXISTING CORRIDOR SWITCH CONTROL.
- CONTRACTOR SHALL COORDINATE HEIGHT OF NEW UNISTRUT WITH MECHANICAL CONTRACTOR. UNISTRUT SHALL BE SUSPENDED TO THE UNDERSIDE OF THE MECHANICAL DUCTWORK FOR MAXIMUM CLEARANCE.
- CONTRACTOR SHALL REMOVE AND RE-TERMINATE ANY DEVICES, WHERE NECESSARY, AFFECTED BY PATCH AND PAINT WORK IN THIS AREA.

MEZZANINE GENERAL NOTES

- CABLING FOR 15A, 120V SHALL BE AS LISTED BELOW:
#12 RW90 CONDUCTOR UP TO 20M
#10 RW90 CONDUCTOR UP TO 40M
#8 RW90 CONDUCTOR UP TO 55M



MEZZANINE AREA OF WORK KEY PLAN
1:500



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MEZZANINE
ELECTRICAL POWER PLAN

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	E2.2	

SYMBOL SCHEDULE

- [J] [O] JUNCTION BOX/OUTLET BOX.
- [X] [H] CEILING/WALL SURFACE MOUNTED LED, FLUORESCENT, OR HIGH INTENSITY DISCHARGE FIXTURE.
- [X] RECESSED LED, FLUORESCENT, OR HIGH INTENSITY DISCHARGE FIXTURE.
- [XX] FLUORESCENT OR LED FIXTURE, SURFACE MOUNTED OR SUSPENDED.
- [X] FLUORESCENT OR LED FIXTURE, RECESSED.
- [X] CEILING/WALL MOUNTED EMERGENCY OR COMBINATION EXIT/EMERGENCY LIGHT FIXTURE
- [XX] FIXTURE SHOWN SHADED DESIGNATEDS UNIT IS CONNECTED TO EMERGENCY POWER DISTRIBUTION. SUFFIX "NON-SWD" DESIGNATES UNIT AS A NON-SWITCHED NIGHT LIGHT.
- (a) [XX] LETTER SUFFIX ADJACENT TO FIXTURE DESIGNATES SWITCH CONTROL.
- [] ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.
- [] MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
- [] MOLDED CASE TYPE CIRCUIT BREAKER, GROUND FAULT INTERRUPTER 15 AMP UNLESS OTHERWISE NOTED.
- [] MOLDED CASE TYPE CIRCUIT BREAKER, SIZE AS NOTED ON DRAWINGS.
- [X] FUSIBLE SWITCH
- [WP] [O] MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. REFER TO MOTOR CONTROL SCHEDULE - "STP" DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
- [] MAGNETIC MOTOR STARTER
- [] COMBINATION MOTOR STARTER/DISCONNECT.
- [WP] [] DISCONNECT SWITCH. SUFFIX "WP" INDICATES WEATHERPROOF.
- [S] [] MOTOR SPEED CONTROLLER SUPPLIED BY THE MECHANICAL CONTRACTOR. INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. MOUNT UP 1200mm. CO-ORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
- [S] S.P.S.T. SWITCH MOUNTED UP 1200mm. PROVIDE KEY OPERATED SWITCH WHERE SUFFIXED "K".
- [] DUPLX GROUNDED RECEPTACLE MOUNTED UP 450mm.
- [] TWO DUPLX RECEPTACLES MOUNTED IN A COMMON BOX MOUNTED UP 450mm
- [GFI] [] DUPLX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED 250mm ABOVE VANITY OR AS NOTED.
- [TVSS] [] TRANSIENT VOLTAGE SURGE SUPPRESSOR RECEPTACLE MOUNTED UP 450mm.
- [WP] [] DUPLX GFI RECEPTACLE C/W DIECAST ALUMINUM WEATHERPROOF RESISTANT DOUBLE LID COVER ADAPT FOR FLUSH OR FS BOX MOUNTING MOUNTED UP 900mm.
- [CLG] [] DUPLX GROUNDED RECEPTACLE MOUNTED IN CEILING T-BAR.
- [] 20 AMP, 115 VOLT, T-SLOT DUPLX RECEPTACLE MOUNTED UP 450mm OR AS INDICATED BY SUFFIX. RECEPTACLE SHALL BE A GROUND FAULT CURRENT INTERRUPTER WHERE SUFFIXED "GFI".
- [] BLANK OUTLET UP 450mm UNLESS NOTED OTHERWISE. PROVIDE A RECESSED J-BOX C/W STAINLESS STEEL COVERPLATE. RUN 21mm EMPTY CONDUIT TO ACCESSIBLE CEILING SPACE.
- [] FIRE ALARM HORN/STROBE SIGNAL DEVICE MOUNTED UP 2290mm A.F.F. - SHALL MATCH EXISTING
- [] FIRE ALARM MONITOR OR CONTROL RELAY MODULE

MECHANICAL SCHEDULE											
ITEM	EQUIPMENT NAME	HP	KW	VOLTS	ø	FLA	STARTER	LOCATION	BREAKER	FEEDER	COMMENTS
AHU-1	AIR HANDLING UNIT ROOM 202	5	—	600	3	—	—	—	15A	3 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 2, 7 MAIN FEEDER AMPS: 7.7A
EF-1	EXHAUST FAN ROOM 105	1/4	—	120	1	5.8	—	—	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 3, 8
EF-2	EXHAUST FAN ROOM 104	1/4	—	120	1	5.8	—	—	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 3, 8
EF-3	EXHAUST FAN ROOM 114	1/4	—	120	1	5.8	—	—	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 3, 8
EF-4	EXHAUST FAN ROOM 119	3/4	—	208	1	6.9	—	—	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 2, 8
EF-5	EXHAUST FAN ROOM 112	1/4	—	120	1	5.8	—	—	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 3
FPT-1 TO FPT-4	FAN POWERED TERMINAL	1/2	—	120	1	9.8	—	—	20A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 5
GFI-1, 2	GLYCOL PUMP	—	—	120	1	—	—	—	15A	2 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 4
MUA-1	MAKE UP AIR UNIT ROOM 202	7.5	—	600	3	—	—	—	15A	3 #12 RW90 + #12 INS. CU. BND IN 27mm EMT	NOTE 2, 7 MAIN FEEDER AMPS: 11.2A
P-1A, 1B	HEATING CIRC. PUMP (MUA-2)	3	—	208	3	11	—	—	20A	3 #12 RW90 + #12 INS. CU. BND IN 21mm EMT	NOTE 2
P-2A, 2B	COOLING CIRC. PUMP (MUA-2)	3	—	208	3	11	—	—	20A	3 #12 RW90 + #12 INS. CU BND IN 21mm EMT	NOTE 2

MECHANICAL EQUIPMENT SCHEDULE NOTES

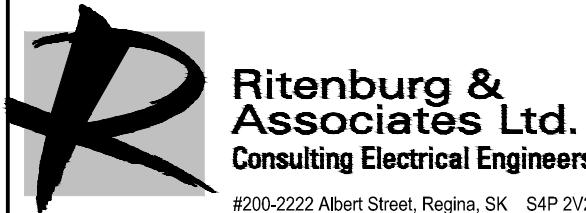
- NOT USED.
- UNIT IS COMPLETE WITH REMOTE MOUNTED FACTORY VFD. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH. DISCONNECT AND VFD SHALL BE BE MOUNTED AS CLOSE TO UNIT AS POSSIBLE. CONTRACTOR SHALL PROVIDE CONNECTION FROM UNIT TO DISCONNECT/VFD AND FROM VFD TO MOTOR.
- 120V ON/OFF WALL SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
- PROVIDE DEDICATED 120V RECEPTACLE FOR EACH PUMP.
- PROVIDE DEDICATED 120V CONNECTION TO NEW FPT BOXES.
- FACTORY SUPPLIED VFD AND DISCONNECT SHALL BE WALL MOUNTED NEAR EQUIPMENT. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
- FACTORY SUPPLIED VFD IS INTEGRAL TO MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL RE-USE AVAILABLE CIRCUIT/PANEL AVAILABLE FROM DEMOLITION. PROVIDE NEW DEDICATED ELECTRICAL PROVISIONS FOR EACH UNIT INCLUDING BREAKER, CABLING, CONDUIT, DISCONNECTS ETC.
- PROVIDE CONNECTION TO RH-1 FROM NEAREST AVAILABLE 120V CIRCUIT.

MECHANICAL EQUIPMENT GENERAL NOTES

- ALL LOCATIONS FOR MECHANICAL EQUIPMENT ARE APPROXIMATE LOCATIONS ONLY. ELECTRICAL CONTRACTOR SHALL CONFIRM EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR.
- PROVIDE FIRE ALARM CONTROL MODULE TO SHUT DOWN MECHANICAL HVAC UNIT(S) UPON ACTIVATION OF FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DUCT TYPE SMOKE DETECTORS FOR EACH SUPPLY AIR DUCT FROM MUA-2 AND AHU-1.
- FOR ALL EXTERIOR CONNECTIONS CONTRACTOR SHALL TRANSITION FROM EMT CONDUIT TO RIGID PVC. PROVIDE SLEEPERS TO SECURE ALL EXTERIOR CABLING/CONDUIT.
- ALL VAV BOXES, AND MOTORIZED DAMPERS, INCLUDING INTERLOCKS, ARE LOW VOLTAGE AND BY OTHERS.
- CONTROLS FOR UNIT HEATERS AND FTP BOXES ARE LOW VOLTAGE AND BY OTHERS.
- PROVIDE EXTERIOR "IN-USE" 20A GFI RECEPTACLE FOR ALL EXTERIOR MECHANICAL EQUIPMENT MOUNTED ON ROOF. PROVIDE LOCAL WEATHERPROOF DISCONNECT FOR 120V RECEPTACLE TO BE MOUNTED AS CLOSE TO RECEPTACLE AS POSSIBLE. WHERE MECHANICAL EQUIPMENT IS LOCATED INSIDE BUILDING PROVIDE 20A DEDICATED RECEPTACLE FROM NEAREST AVAILABLE 120/208V PANEL. MULTIPLE ROOF RECEPTACLES SHALL BE CONNECTED TO THE SAME CIRCUIT.
- OWNER SHALL PROVIDE EQUIPMENT NOMENCLATURE TO CONTRACTOR FOR ALL PANEL SCHEMATICS AND LAMECOIDS.



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Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
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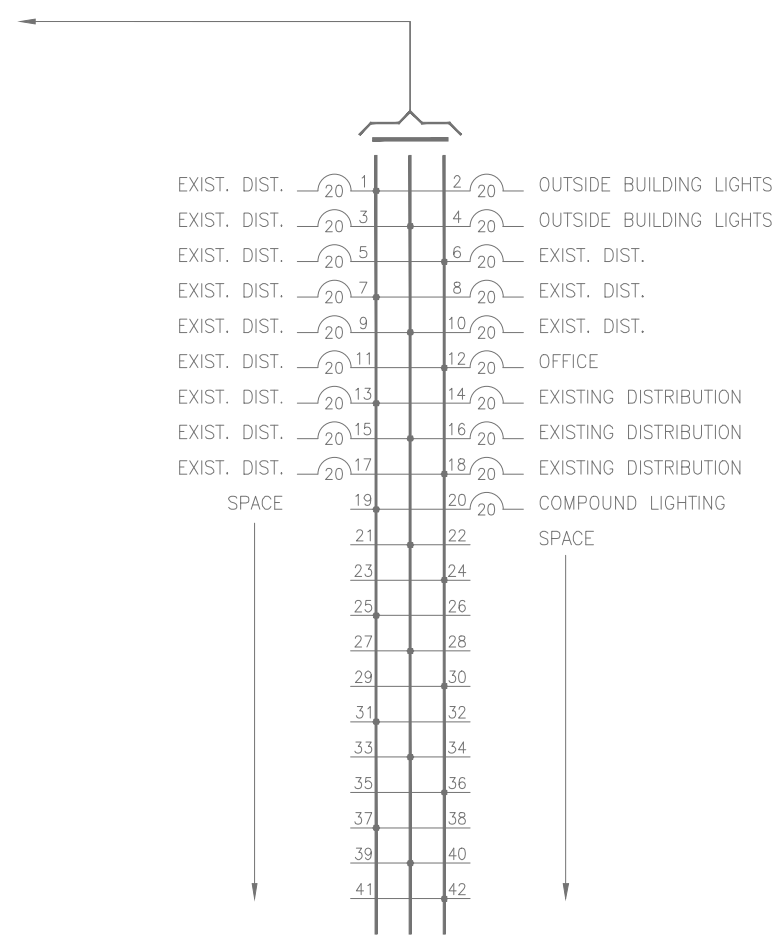
Drawing title/Titre du dessin

MECHANICAL SCHEDULE
AND SYMBOL SCHEDULE

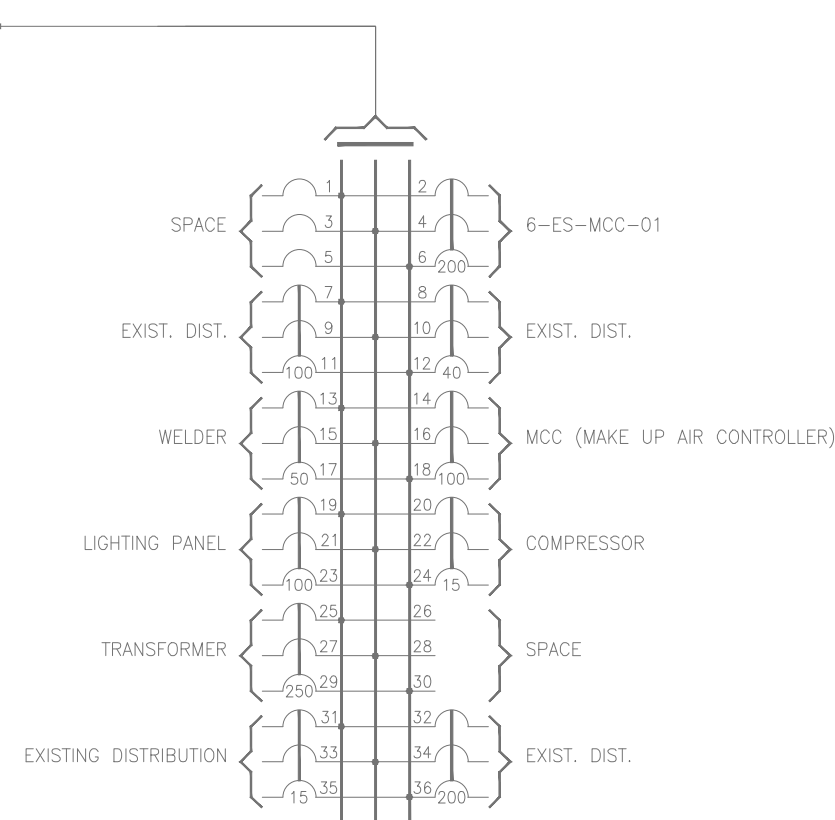
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E3.1

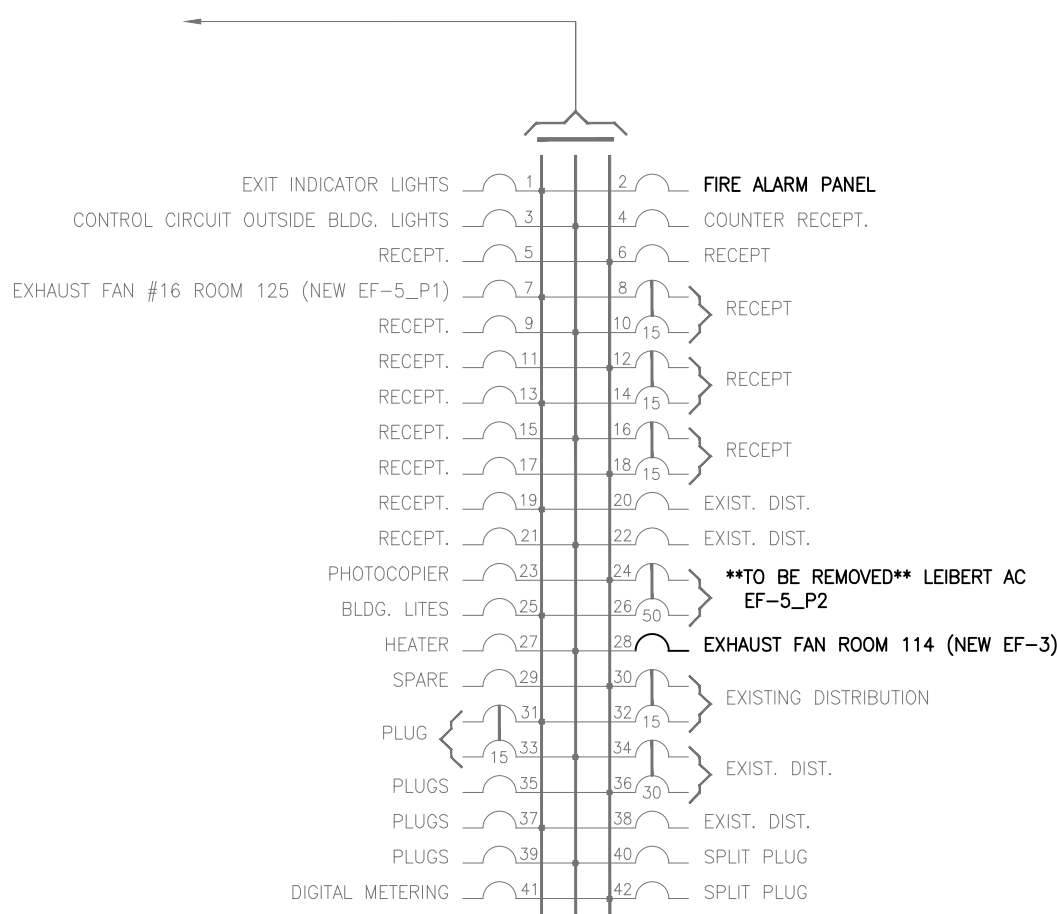
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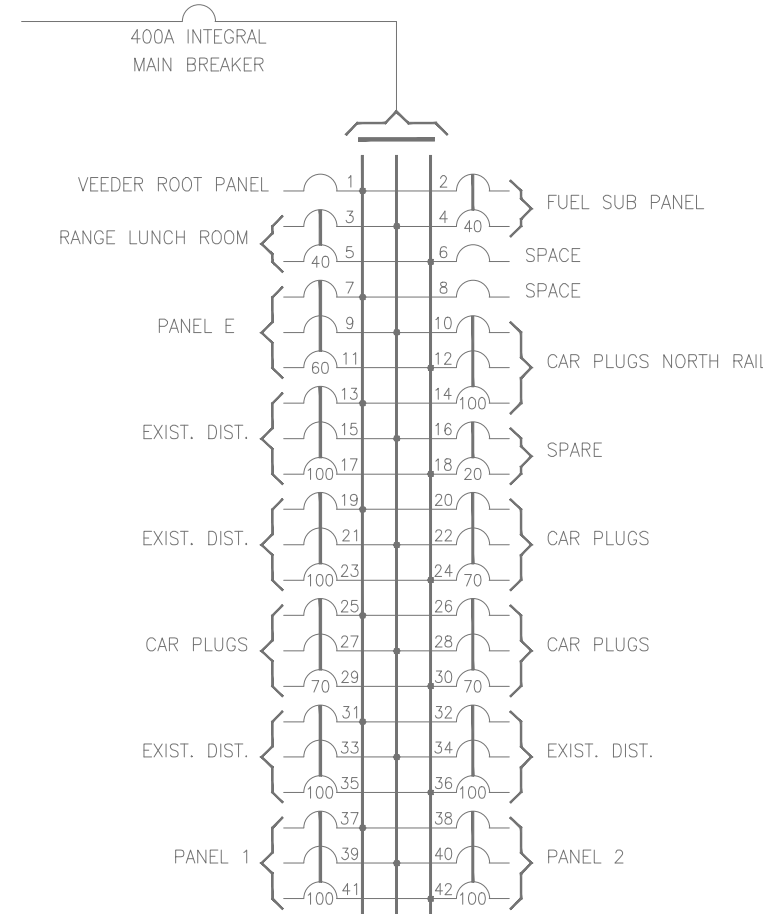
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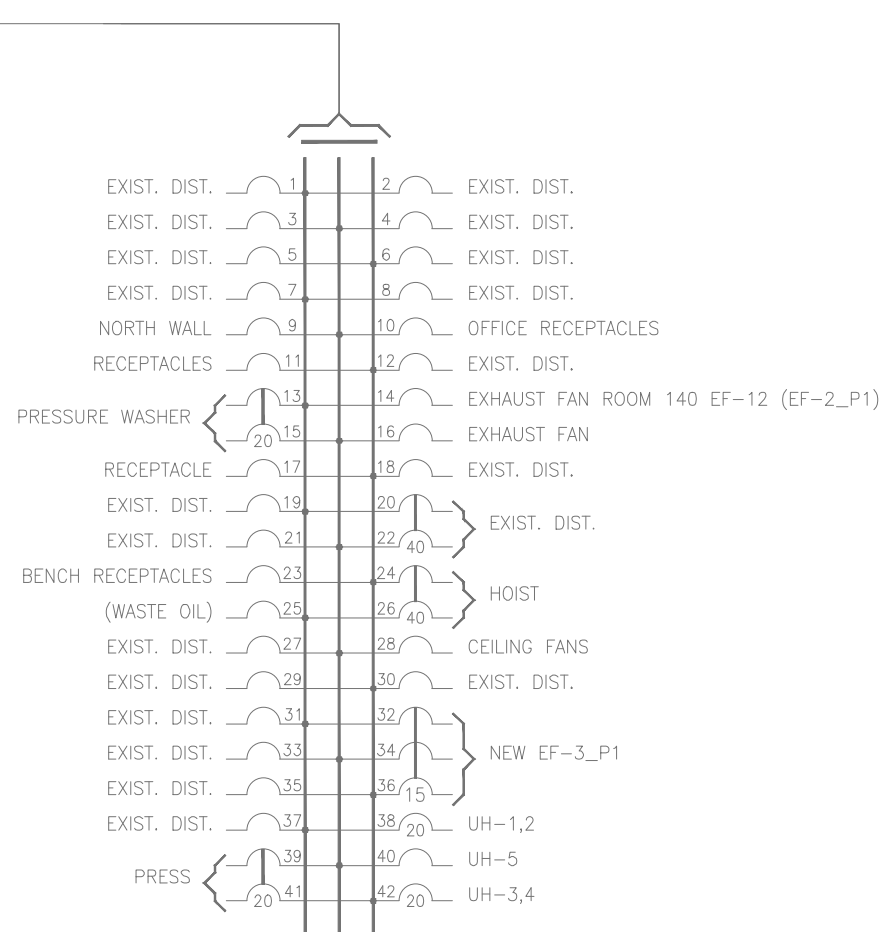
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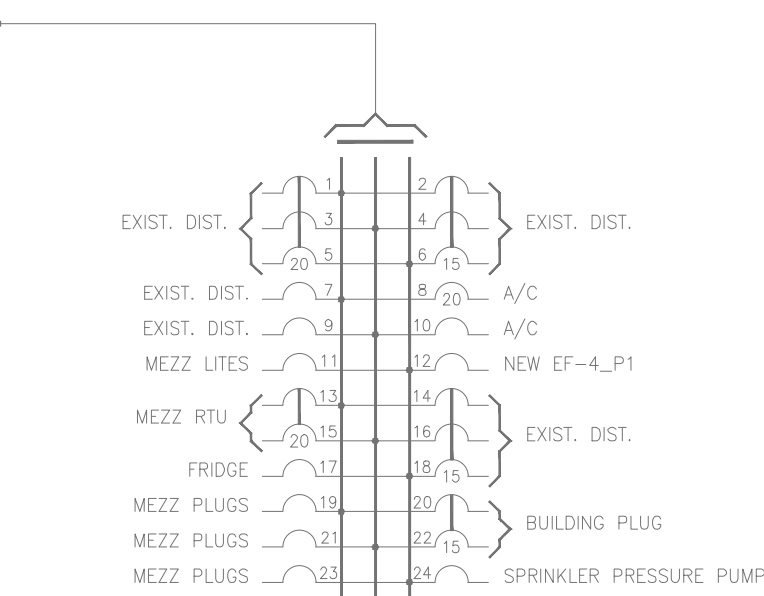
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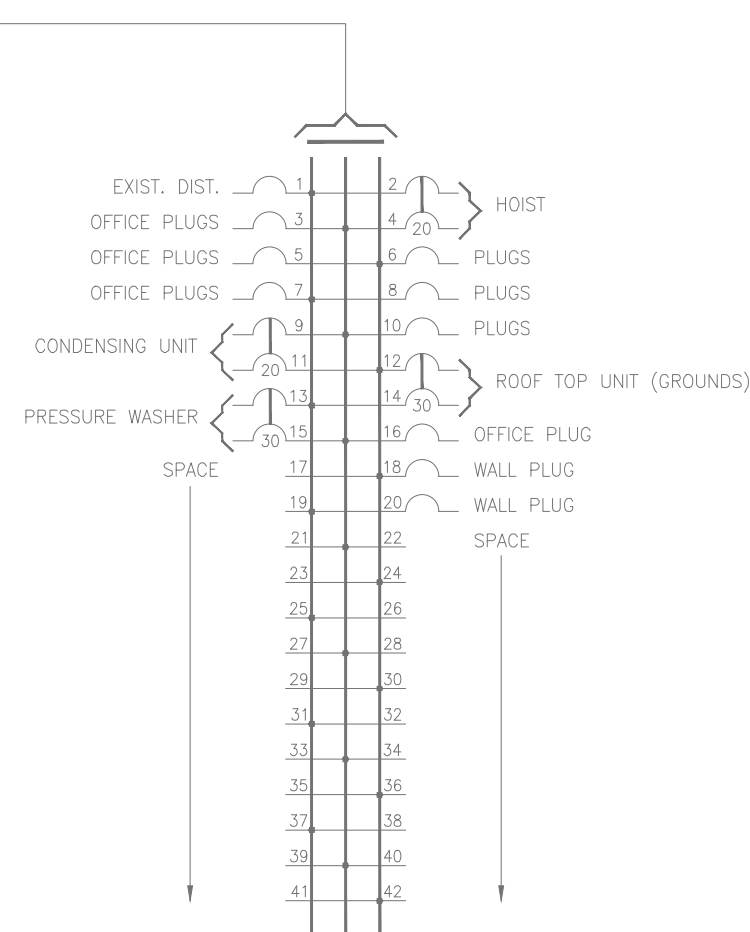
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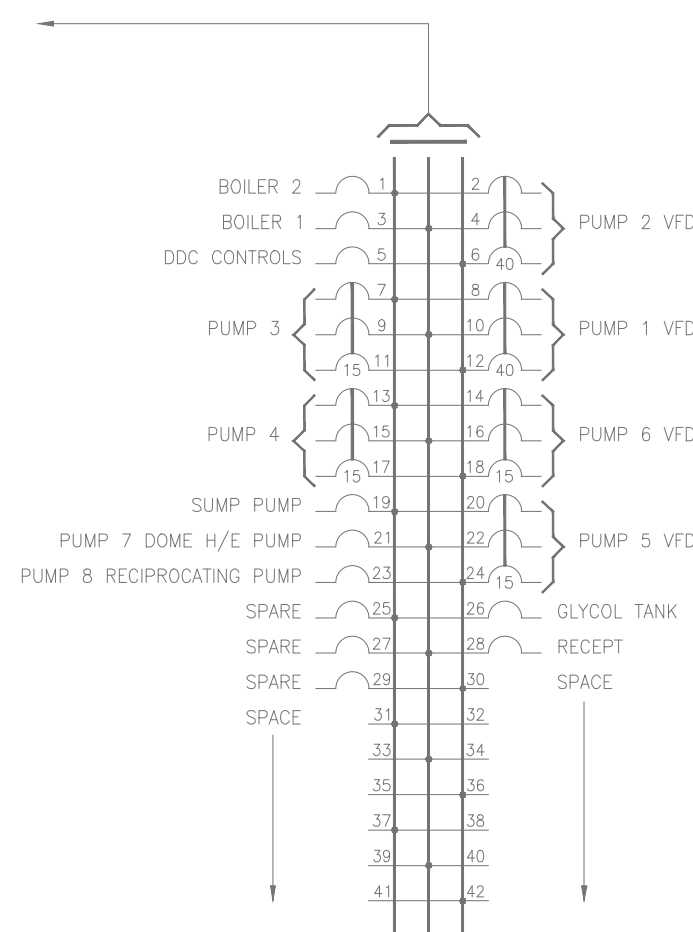
PANEL "05-212-0-SUBD" (240 V.-3Ø-4W.)



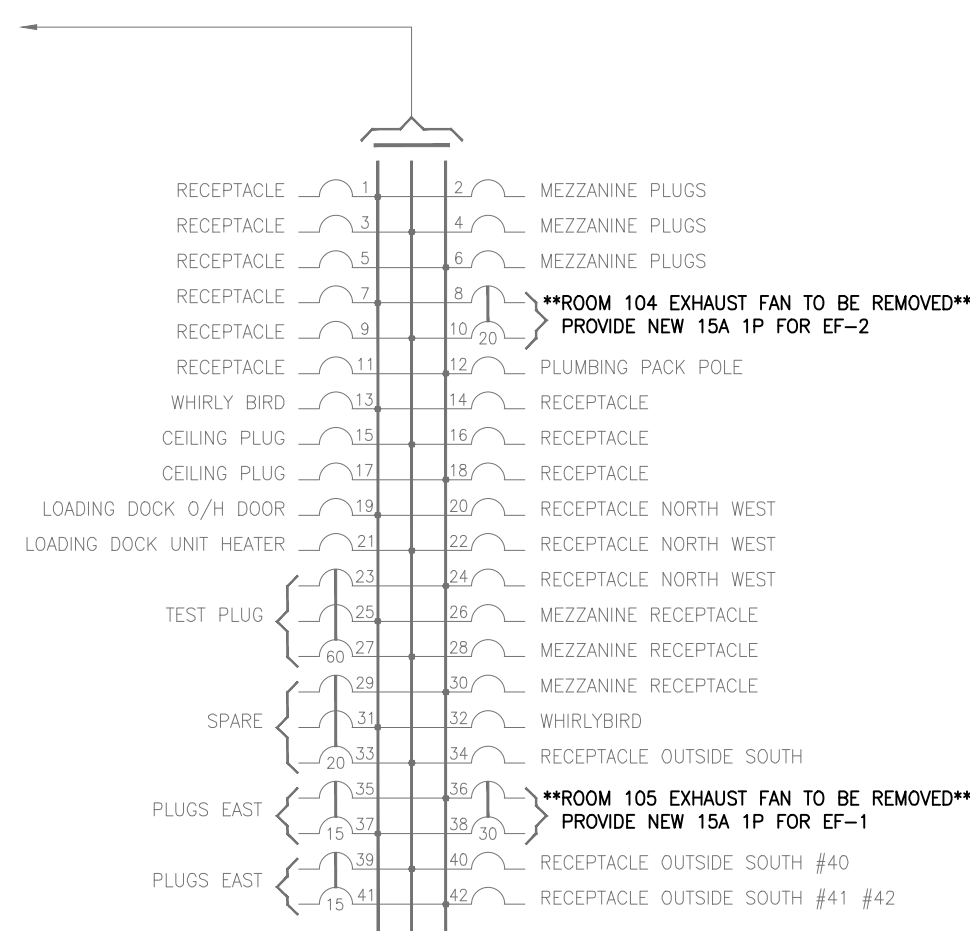
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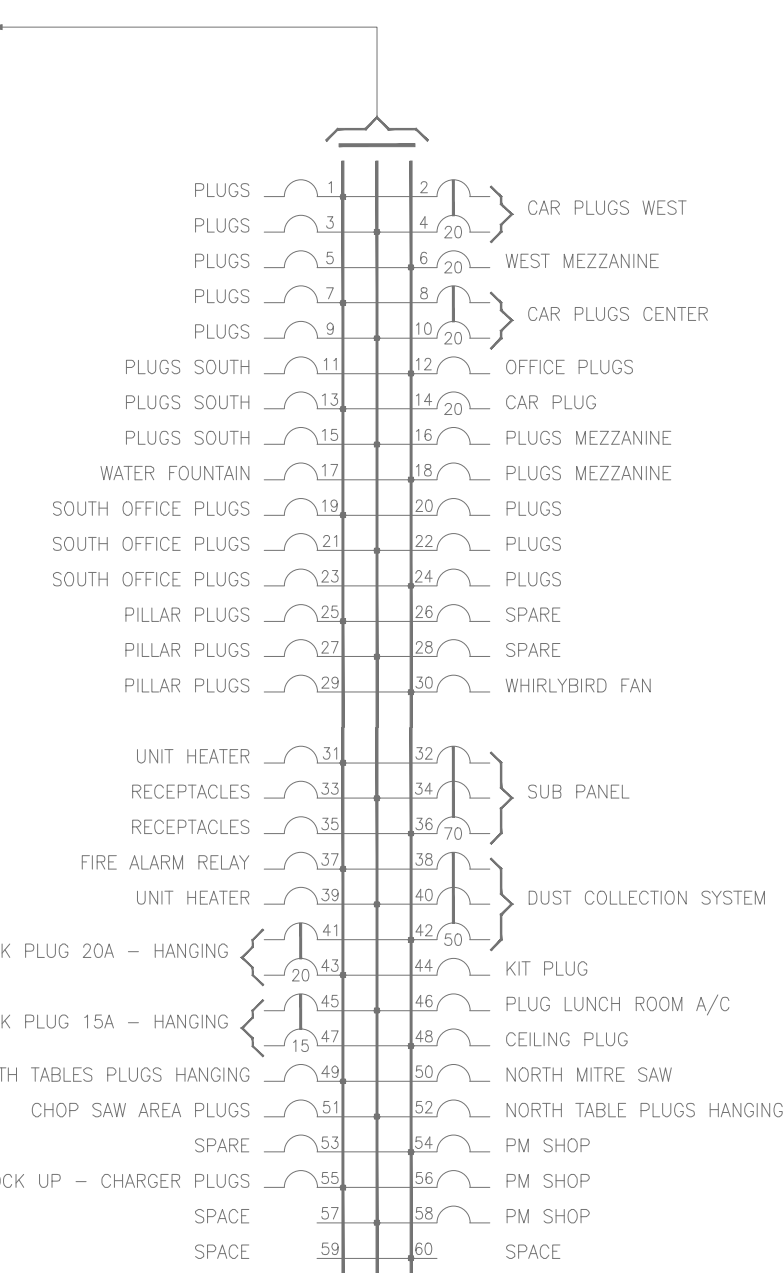
PANEL "E" (120/208 V.-3Ø-4W.)



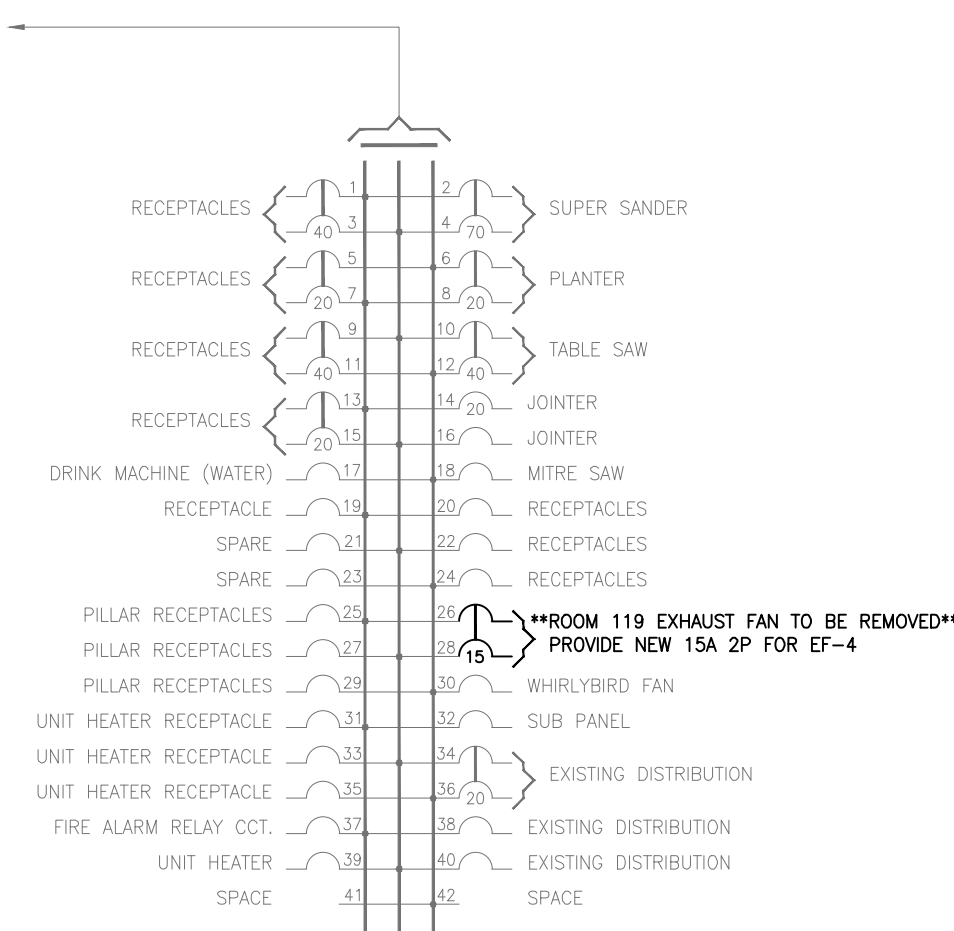
PANEL "05-212-0-ROOM 104" (240 V.-3Ø-4W.)



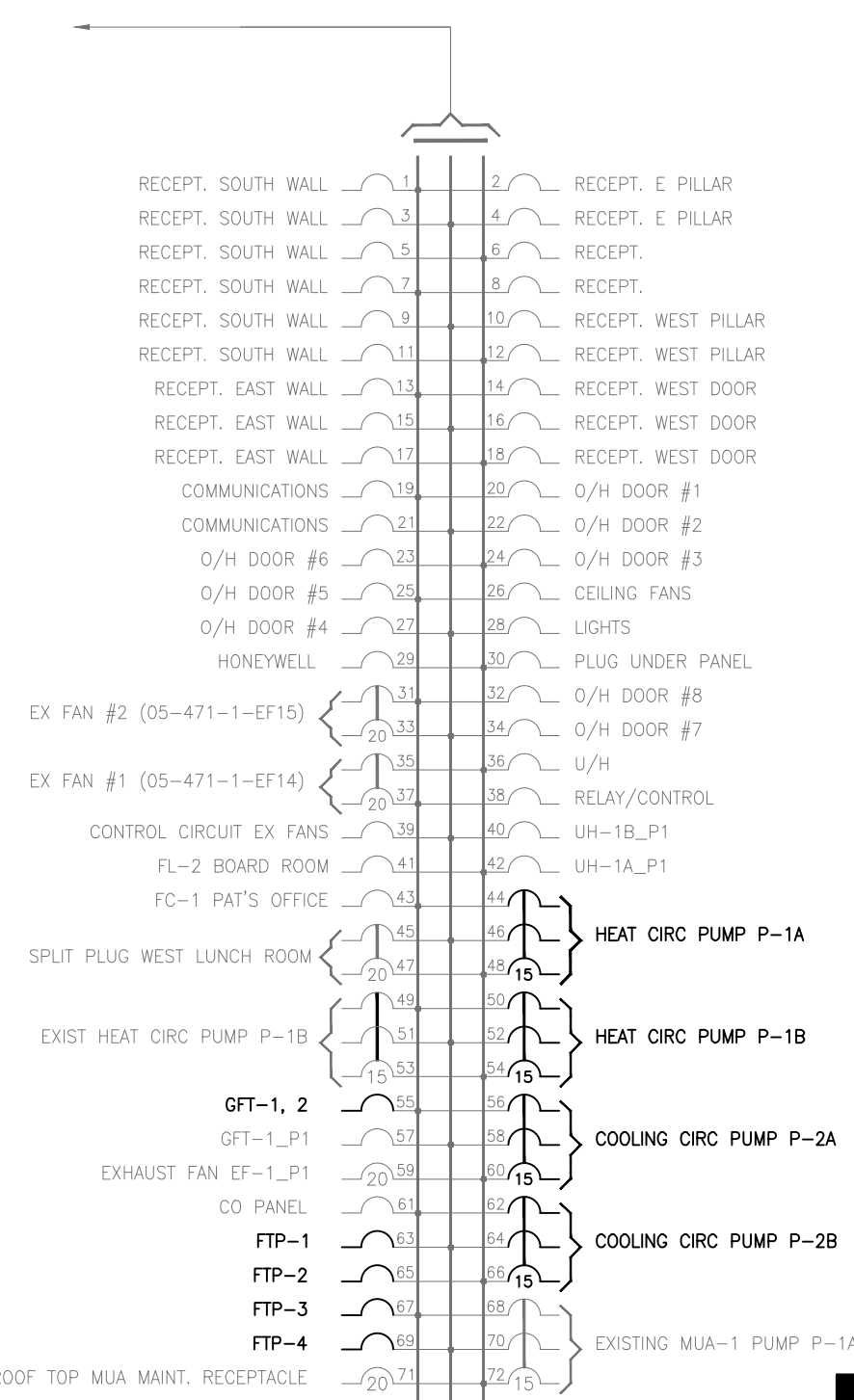
PANEL "05-212-0-ROOM 119 PNL1" (120/208 V.-3Ø-4W.)



PANEL "05-212-0-ROOM 119 PNL2" (240 V.-3Ø-4W.)



PANEL "1" (120/208V.-3Ø-4W.)



NOTE: THE EXISTING PANEL SCHEMATICS ARE FOR REFERENCE ONLY AND ARE SUBJECT TO REVISION. UNITS REMOVED IN DEMOLITION PHASE ARE SHOWN WITH NEW IDENTIFIERS, AS PER E3.1 FOR REFERENCE. CONTRACTOR SHALL CONFIRM ALL CONNECTIONS/PANELS PRIOR TO REMOVAL AND CONNECTION. ALL AFFECTED PANEL SCHEMATICS SHALL BE UPDATED. PROVIDE LAMECROID NAME PLATES FOR ALL PANELS AFFECTED BY THIS RENOVATION.

1 PANEL SCHEMATIC
E4.1 N.T.S.

SEPW Architecture Inc.

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PANEL SCHEMATICS

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