

ADDENDUM #6

Oct 25, 2024

DCA Project No.: 22-136
Project Name: York Region Warehouse Upgrades

To: All Bidders, All Consultants, Project Manager
of pages : 29

This addendum forms part of the Bid Documents and should be read in conjunction with the Drawings and Specifications forming the Bid Documents. Information contained in this Addendum supersedes or replaces previous information.

REVISIONS TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS:

Refer to all bubbled/ highlighted areas on attached drawings and specifications for required revisions to contract documents.

1. ARCHITECTURAL REVISIONS:

1.1. Drawings:

- 1.1.1. A003 – Assemblies Schedule
- 1.1.2. A011 – Proposed Phasing Plan
- 1.1.3. A051 – Proposed Site Plan
- 1.1.4. A101 - Demolition plan-overall first floor
- 1.1.5. A202 – Mezzanine Electrical Room Plan
- 1.1.6. A314 – CS-FMO Mezzanine Stair Section
- 1.1.7. A403 – Roof Access Stair Details

1.2. Specifications:

- 1.2.1. 07 42 43 Insulated Metal Panels
- 1.2.2. 12 50 00 Furniture & Room Accessories

2. STRUCTURAL REVISIONS: Please refer to attached structural addendum SA-001.

END OF ADDENDUM #6



Leo Tang, OAA | Architect
DAVID CARTER ARCHITECTS

2	2024/10/25	ADDENDUM#7
1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

REVISIONS

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CLIENT:



ARCHITECT:

CARTER AI
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



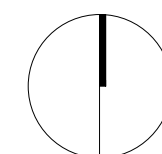
STRUCTURAL ENGINEERING:



HWP WAREHOUSE
UPGRADE

145 Harry Walker Parkway
Newmarket, ON L3Y 7B3

PROJECT NORTH



ASSEMBLIES SCHEDULE

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP 2024

PROJECT NO.

DRAWING NO.

A003

22-136

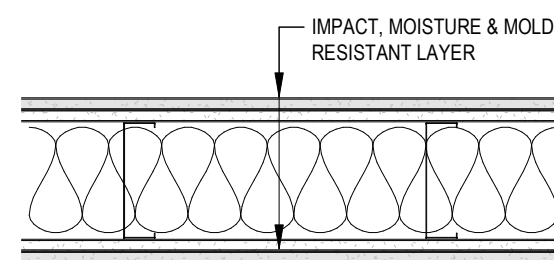
WALL TYPES

W1

WALL TYPE 1

NON-LOAD BEARING
FIRE-RESISTANCE RATING: 2-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: U411

- 2x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT TYPE (ON OUTER LAYERS)
- 152MM GALVANIZED METAL STUDS, 20GA. @ 400MM O.C. MAX.
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 2x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X.

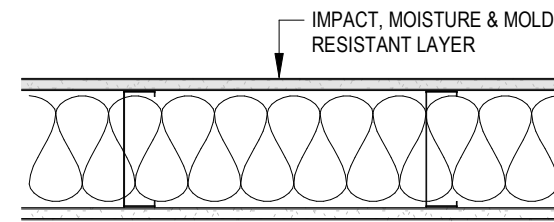


W2

WALL TYPE 2

NON-LOAD BEARING
FIRE-RESISTANCE RATING: 1-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: U465

- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT ON WAREHOUSE SIDE.
- 152MM GALVANIZED METAL STUDS, 20GA. MIN. @ 4000.C. MAX
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X.

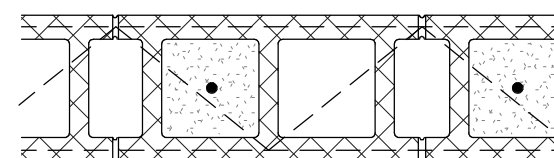


W3

WALL TYPE 3

NON-LOAD BEARING
FIRE-RESISTANCE RATING: NONE.

- 194MM CONCRETE MASONRY UNIT
- REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE TO FLOOR SLAB AND REINFORCEMENT REQUIREMENTS.



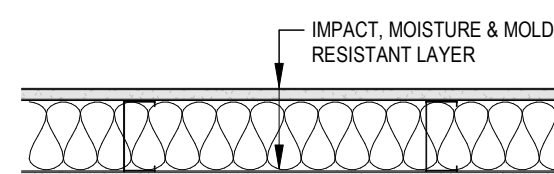
2

W4

WALL TYPE 4

NON-LOAD BEARING
FIRE-RESISTANCE RATING: NONE.

- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT
- 92MM GALVANIZED METAL STUDS, 20GA. MIN. @ 4000.C. MAX
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT

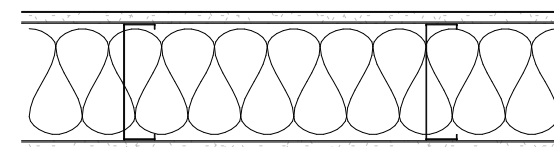


W5

WALL TYPE 5

NON-LOAD BEARING
FIRE-RESISTANCE RATING: NONE..

- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X
- 152MM GALVANIZED METAL STUDS, 20GA. MIN. @ 4000.C. MAX
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X
- PROVIDE IMPACT, MOISTURE AND MOLD RESISTANT TYPE IN WORKSHOP AREAS.



FURRING TYPES

F1

FURRING TYPE 1

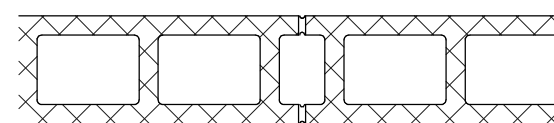
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT
- 92MM GALVANIZED METAL STUDS, 20GA. @ 400MM O.C. MAX.



F2

FURRING TYPE 2

- 140MM CONCRETE BLOCK
- REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE TO FLOOR SLAB AND REINFORCEMENT REQUIREMENTS.



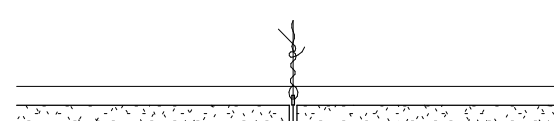
CEILING TYPES

C1

CEILING TYPE 1 - ACT

NRC: N/A

- MANUFACTURER: SEE SPECIFICATIONS
- 151/161 SUSPENDED GRID "TEE" SYSTEM
- GRID SIZE: 610MM X 1220MM
- CEILING PANELS: MINERAL WOOL ACOUSTICAL CEILING TILES. SEE SPECIFICATIONS

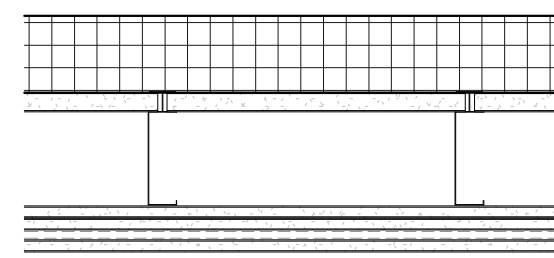


C2

CEILING TYPE 2

FIRE-RESISTANCE RATING: 2-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: IS15

- 102MM THICK MINERAL WOOL COVERING ALL CH STUD FLANGES
- 25MM SHAFTLINER PANEL
- 152MM GALVANIZED METAL CH STUDS C/W J-RUNNERS AT PERIMETER, 16GA. @ 610MM O.C. MAX.
- 2x LAYERS OF 16MM GYPSUM WALL BOARD, TYPE X.
- 13MM RESILIENT CHANNEL @ 400MM O.C.
- 1x LAYER OF 16 MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT.



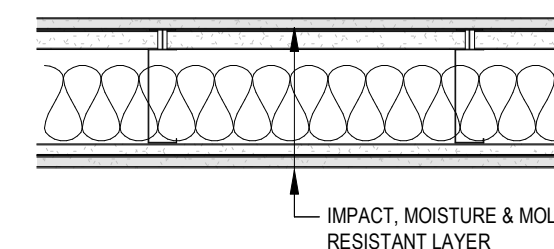
SHAFTWALL TYPES

S1

SHAFTWALL TYPE 1

NON-LOAD BEARING
FIRE-RESISTANCE RATING: 2-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: U417

- 2x LAYERS OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT ON OUTER LAYER.
- 152MM GALVANIZED METAL CH STUDS, 16GA. @ 610MM O.C. MAX.
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 1x LAYER OF 25MM SHAFTLINER (TYPE X).
- 1x LAYER 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT (UP TO UNDERSIDE OF GRID IN BUILDING OPENING ONLY).

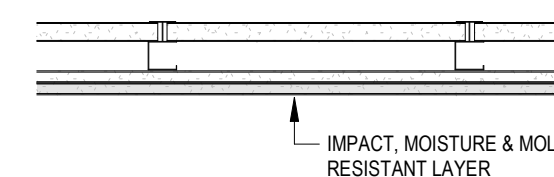


S2

SHAFTWALL TYPE 2

NON-LOAD BEARING
FIRE-RESISTANCE RATING: 2-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: U417

- 2x LAYERS OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT ON OUTER LAYER.
- 64MM GALVANIZED METAL CH STUDS, 20GA. @ 610MM O.C. MAX.
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 1x LAYER OF 25MM SHAFTLINER (TYPE X).

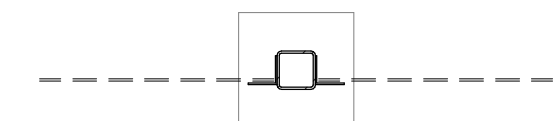


PARTITION TYPES

P1

PARTITION TYPE 1

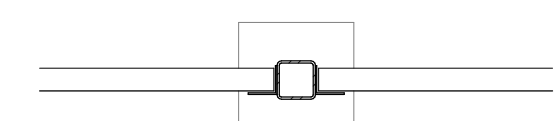
- FREESTANDING WIRE MESH PARTITION SYSTEM BY COGAN.
- 3M[10FT] HIGH



P2

PARTITION TYPE 2

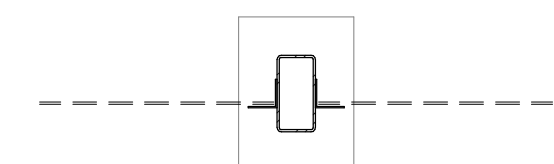
- FREESTANDING SHEET METAL PARTITION SYSTEM BY COGAN.
- 3M[10FT] HIGH



P3

PARTITION TYPE 3

- FREESTANDING WIRE MESH PARTITION SYSTEM BY COGAN.
- 3MM[10FT] HIGH
- 51x152 (2x4) POSTS @ 1525MM MAX
- CUSTOMIZATION: PROVIDE 3MM THICK STEEL PLATE (PAINT MATCHED TO PARTITION COLOUR) FASTENED TO POSTS FOR MOUNTING OF NEW LIGHT FIXTURES (REFER TO ELECTRICAL REQUIREMENTS). STEEL PLATE TO BE MIN. 305MM HIGH TO SUIT LIGHT FIXTURES.



FIREPROOFING TYPES

FP1

FIREPROOFING FOR CS MEZZANINE FLOOR ASSEMBLY AND BEAMS

FIRE-RESISTANCE RATING: 1-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: D94B
MATERIAL: INTUMESCENT PAINT.

FP2

FIREPROOFING FOR CS MEZZANINE HSS COLUMNS

FIRE-RESISTANCE RATING: 1-HR
TESTING AGENCIES: UL/C dUL
TEST: CAN ULC-S101
DESIGN: Z029
MATERIAL: INTUMESCENT PAINT.

NOTES TO PHASING DIAGRAM:

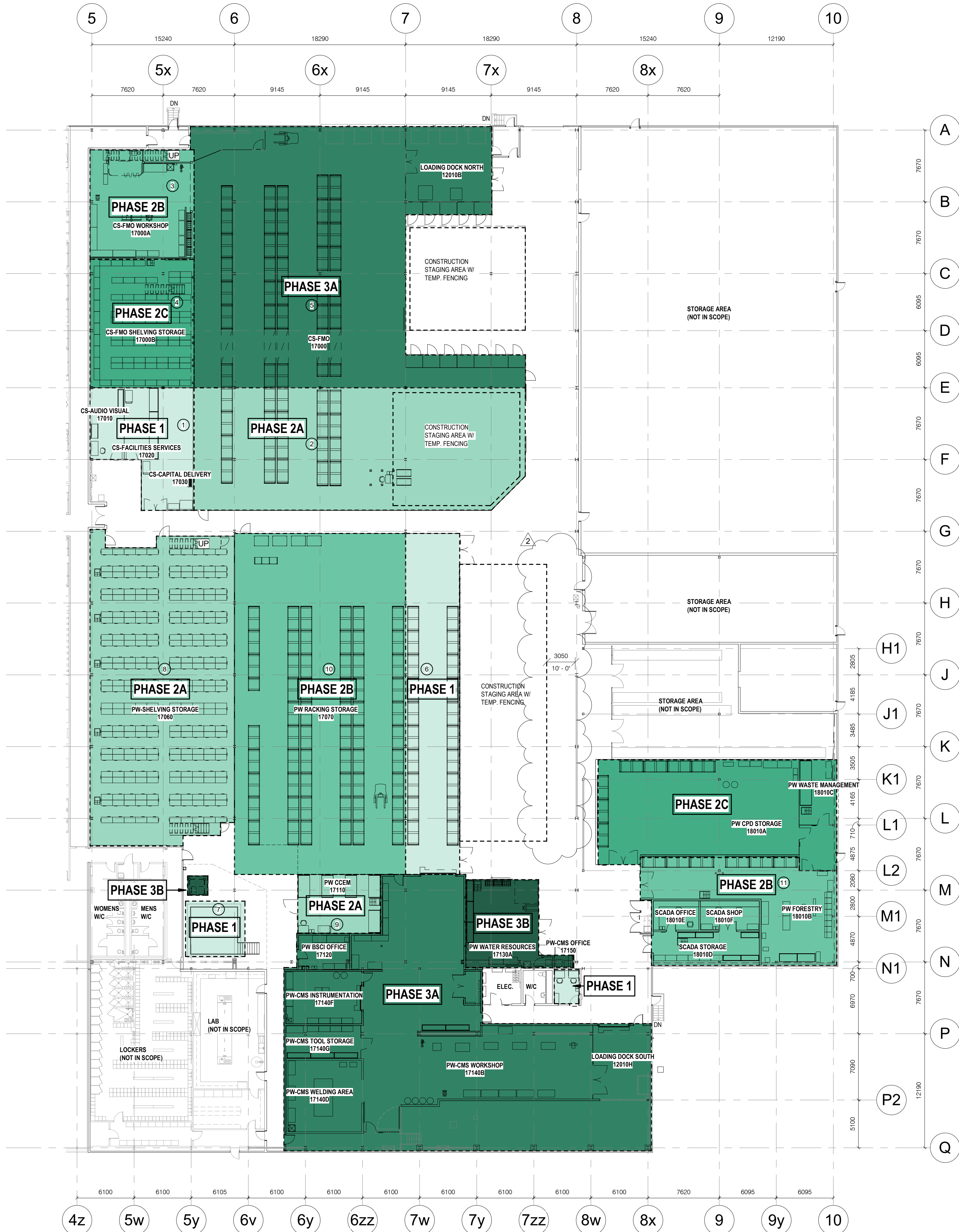
1. BASE BUILDING AND M&E SYSTEMS: CONTRACTOR TO COORDINATE MECHANICAL AND ELECTRICAL WORK TO SUIT PHASING AND OWNER'S REQUIREMENTS. MECHANICAL AND ELECTRICAL WORK MAY BE REQUIRED TO BE PERFORMED PRIOR TO THE BEGINNING OF EACH PHASE. IT IS CONTRACTOR'S RESPONSIBILITY TO REVIEW PROPOSED SCOPE OF WORK AND DEVELOP A CONSTRUCTION PHASING PLAN TO MEET THE INTENT OF THIS DRAWING.
2. SHELVING AND RACKING STORAGE SYSTEMS CERTIFICATION: AT THE END OF EACH PHASE, CONTRACTOR TO OBTAIN REQUIRED SAFETY INSPECTIONS AND CERTIFICATIONS (IE: PSR) REQUIRED BY AUTHORITY HAVING JURISDICTION TO USE NEW STORAGE SYSTEMS TO RELOCATE/DECANT ITEMS FROM OTHER AREAS IN ORDER TO COMMENCE THE NEXT PHASE OF WORK.
3. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE AND INSTALL TEMPORARY FENCING AROUND ALL STAGING AREAS AND TEMPORARY STORAGE AREAS.
4. CONTRACTOR TO COORDINATE WITH OWNER REGARDING RELOCATION OF OWNER'S ITEMS 10 DAYS PRIOR TO COMPLETION OF EACH PHASE. OWNER'S ITEMS (EXCLUDING INDICATED FURNITURE AND EQUIPMENT) WILL BE RELOCATED BY OWNER. CONTRACTOR TO ALLOW A MIN. 5 DAYS TO RELOCATE ITEMS.

CORPORATE SERVICES AREAS OF WORK:

1. RELOCATE EXISTING PALLET RACKING AND SHELVING TO STAGING AREA. CONSTRUCT NEW CS-AV, FS, CD STORAGE AREAS AND RELOCATE ALL ITEMS.
2. RELOCATE EXISTING PALLET RACKING AND SHELVING TO STAGING AREA. INSTALL NEW RACKING FOR 192x PALLETS AND RELOCATE ALL EXISTING PALLETS HERE. REMOVE ALL EXISTING PALLET RACKING.
3. CONSTRUCT NEW STORAGE MEZZANINE ABOVE AND NEW WORKSHOP BELOW. RELOCATE ALL ITEMS BELONGING TO CS-CAS, SECURITY, RECORDS ONTO MEZZANINE.
4. CONSTRUCT NEW MULTI-LEVEL SHELVING STORAGE. RELOCATE ALL ITEMS. REUSE SHELVING WHERE INDICATED, OTHERWISE REMOVE FROM SITE.
5. RELOCATE WORKSHOP EQUIPMENT INTO NEW WORKSHOP AS SHOWN. DEMOLISH EXISTING OFFICE. INSTALL REMAINDER OF NEW RACKING AS INDICATED.

PUBLIC WORKS AREAS OF WORK:

6. ALL EXISTING TRAILERS AND LARGE EQUIPMENT TO BE RELOCATED DURING CONSTRUCTION TO ESTABLISH STAGING AREA. INSTALL NEW PALLET RACKING FOR PW-OMM, MIN. 192x PALLETS. RELOCATE EXISTING PALLETS ONTO NEW PALLET RACKING.
7. RELOCATE EXISTING TRAINING PLATFORM AND DRINKING FOUNTAIN.
8. CONSTRUCT NEW MULTI-LEVEL SHELVING STORAGE SYSTEM. RELOCATE ALL EXISTING ITEMS.
9. CONSTRUCT NEW PW-CDEM STORAGE AREA. PROVIDE TEMPORARY FENCING PRIOR TO CONSTRUCTION OF WORKSHOP WALLS. RELOCATE ITEMS TO STORAGE AREA.
10. INSTALL REMAINDER OF NEW PALLET RACKING.
11. CONSTRUCT NEW FORESTRY WORKSHOP AND STORAGE AREA. SCADA WORKSHOP. RELOCATE FORESTRY ITEMS INTO NEW STORAGE AREA.



1 PROPOSED PHASING DIAGRAM
A011 1 : 250

2	2024/10/25	ADDENDUM #7
1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

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ARCHITECT:

CARTER AI
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



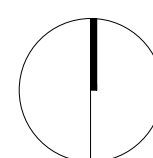
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE
UPGRADE**

145 Harry Walker Parkway
Newmarket, ON L3Y 7B3

PROJECT NORTH



PROPOSED PHASING PLAN

ENTERED: LT.

CHECKED: D.C.

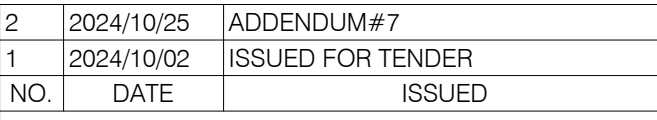
DATE: SEP.2024

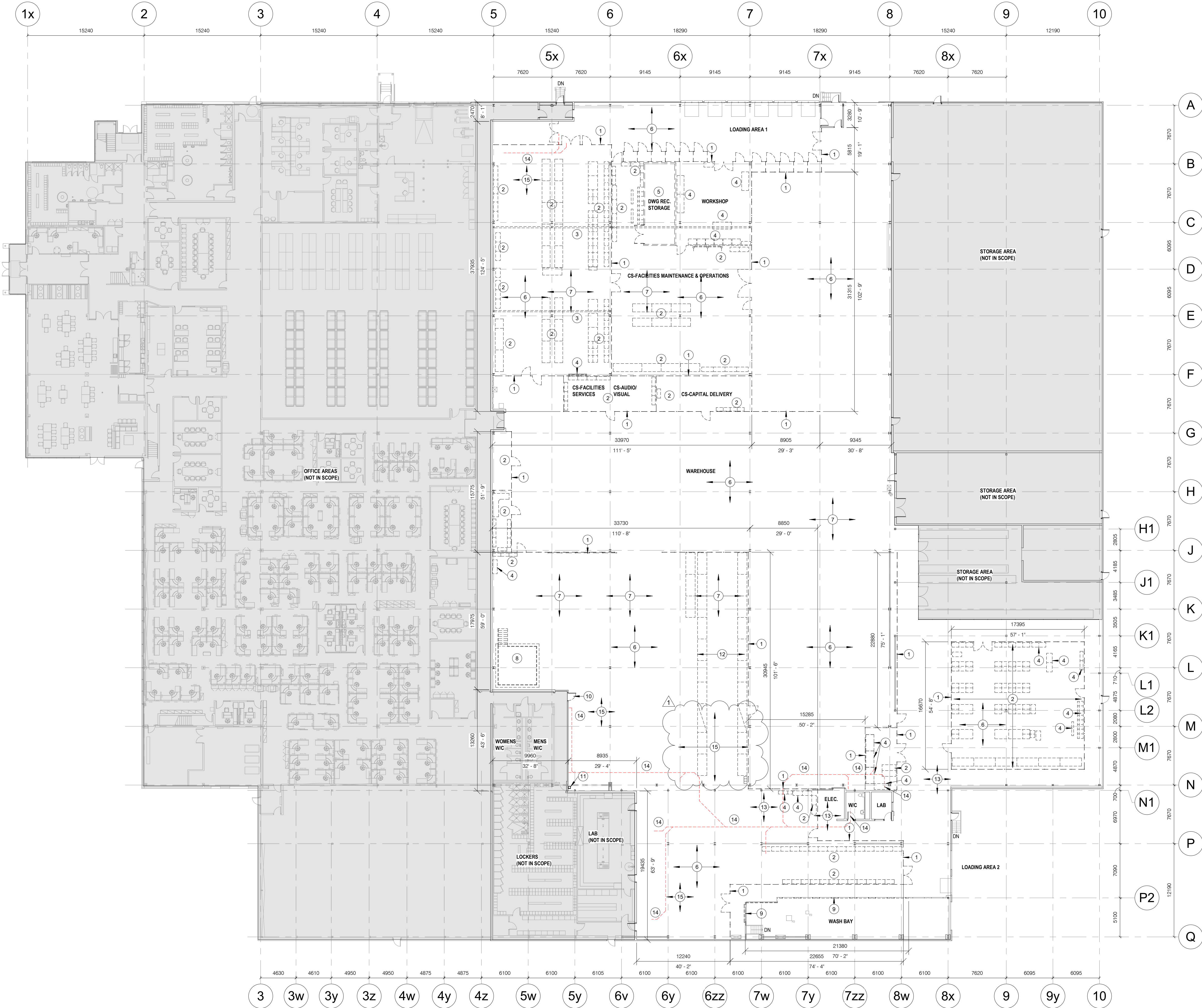
PROJECT NO.

DRAWING NO.

A011

22-136





GENERAL DEMOLITION NOTES:

1. REMOVE ITEMS SHOWN DASHED UNLESS OTHERWISE NOTED.
2. COORDINATE W/ MECHANICAL & ELECTRICAL DRAWINGS FOR APPLICABLE WORK REQUIREMENTS. CONTRACTOR TO INCLUDE TEMPORARY REMOVAL AND REINSTALLATION OF ARCHITECTURAL COMPONENTS TO FACILITATE MECHANICAL & ELECTRICAL WORK. WHEN REMOVING MECHANICAL & ELECTRICAL EQUIPMENT, REMOVE ALL ASSOCIATED SUPPORTS, HANGERS, ANCHORS ETC. PATCH AND MAKE GOOD IMPACTED ASSEMBLIES AND FINISHES.
3. COORDINATE W/ OWNER'S TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY WORK STANDARDS.
4. MAKE GOOD ALL ASSEMBLIES AND FINISHES WHERE EXISTING CONSTRUCTION (IE. WALLS, FLOORS, CEILINGS, INTERIOR FINISHES ETC.) ARE IMPACTED BY DEMOLITION AND OR NEW WORK OF ALL TRADES.
5. ANY MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO APPLICABLE MECHANICAL & ELECTRICAL DRAWINGS FOR DETAIL REQUIREMENTS.
6. INCLUDE FOR REMOVAL FOR ALL EXISTING ROOM ACCESSORIES, ELECTRICAL AND MECHANICAL ITEMS MOUNTED TO WALLS INDICATED FOR DEMOLITION.
7. REFER TO OWNER'S DESIGNATED SUBSTANCES AND ABATEMENT SCOPE FOR HAZAROUS BUILDING MATERIAL LOCATIONS AND REMOVAL PROCEDURES.
8. PROVIDE TEMPORARY LIGHTING AND MAINTAIN FIRE PROTECTION (IE. SPRINKLERS) IN ACCORDANCE W/ APPLICABLE CODE.

- KEYNOTES:**
1. REMOVE EXISTING CHAIN-LINK FENCE. REMOVE EMBEDDED POSTS ENTIRELY. PATCH CONCRETE SLAB.
 2. REMOVE EXISTING FURNITURE & EQUIPMENT UNLESS OTHERWISE NOTED. REFER TO M&E REQUIREMENTS FOR M&E SERVICE DISCONNECTION.
 3. REMOVE EXISTING OVERHEAD CRANE RAILS, RAIL SUPPORT COLUMNS, DIAGONAL BRACING ABOVE. REMOVE/ REFEED ALL EXISTING SERVICES MOUNTED ON OVERHEAD CRANE RAIL.
 4. EXISTING FURNITURE/ EQUIPMENT TO BE RELOCATED (BY GC). STORE ITEM UNTIL NEW AREA IS FINISHED. RELOCATE ITEM. COORDINATE W/ OWNER REGARDING RELOCATION TO MINIMIZE OPERATIONAL IMPACT.
 5. DEMOLISH EXISTING DRAWING STORAGE ROOM INCLUDING ALL WALLS, WINDOWS, DOORS, ROOFS, AND ALL FINISHES. REFER TO MECHANICAL AND ELECTRICAL REQUIREMENTS REGARDING DEMOLITION AND RELOCATION OF EXISTING SERVICES SERVING ROOM OR MOUNTED TO WALLS OF ROOM.
 6. REMOVE ALL EXISTING FLOOR FINISHES. GRIND CONCRETE SLAB TO SUIT NEW FLOOR FINISH. REFER TO FINISH SCHEDULE AND SPECIFICATIONS. REMOVE LOOSE AND POOR QUALITY TOPPING. PATCH AS REQUIRED.
 7. GRIND DOWN AND PATCH ALL AREAS OF FLOOR SLAB WHERE UNEVEN AND OR DAMAGED PRIOR TO APPLYING NEW FLOOR FINISHES.
 8. RELOCATE EXISTING STEEL TRAINING PLATFORM. REFER TO PROPOSED PLAN.
 9. REMOVE EXISTING STEEL GUARD RAIL AND CURBS. PATCH CONCRETE SLAB AS REQUIRED. REFER TO NEW PROPOSED CONCRETE BLOCK WALL.
 10. REMOVE EXISTING HM DOOR AND FRAME FOR REPLACEMENT.
 11. EXISTING WATER FOUNTAIN TO BE RELOCATED. REFER TO MECHANICAL REQUIREMENTS.
 12. SALVAGE EXISTING PALLET RACKING. REFER TO PROPOSED PLANS FOR PW-CPD AND PW-FORESTRY FOR QUANTITIES. DISPOSE OF REMAINDER.
 13. REMOVE ALL UNUSED CONDUITS, PIPING, PULL BOXES AND THEIR SUPPORTS IN CEILING SPACE ABOVE.
 14. REMOVE/ TRENCH EXISTING CONCRETE SLAB FOR PROPOSED UNDERSLAB PLUMBING. EXTENTS SHOWN (DASHED RED LINE) ARE FOR REFERENCE ONLY. REFER TO MECHANICAL REQUIREMENTS. FINAL ROUTING OF UNDERSLAB PLUMBING TO BE DETERMINE AFTER SCANS AND SURVEY WORK IS PERFORMED BY CONTRACTOR. REPLACE CONCRETE SLAB TO MATCH EXISTING SLAB THICKNESS. REFER TO STRUCTURAL DETAILS. MAKE GOOD ALL EXISTING ASSEMBLIES AND FINISHES.
 15. REFER TO STRUCTURAL DRAWINGS AND PROPOSED WORK FOR LOCATIONS IN THIS AREA REQUIRING REMOVAL OF EXISTING CONCRETE SLAB FOR INSTALLATION OF NEW STRUCTURAL FOOTING FOUNDATIONS.

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CLIENT:



ARCHITECT:



MECHANICAL & ELECTRICAL ENGINEERING:



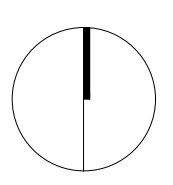
STRUCTURAL ENGINEERING:



HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway
Newmarket, ON L3Y 7B3

PROJECT NORTH



DEMOLITION PLAN-OVERALL FIRST FLOOR

ENTERED: LT.
CHECKED: D.C.
DATE: SEP.2024
PROJECT NO.

DRAWING NO.

A101

22-136

GENERAL CONSTRUCTION NOTES:

- A. FIRESTOPPING: INSTALL FIRESTOP ASSEMBLIES TO SUIT ALL SERVICE AND STRUCTURAL PENETRATIONS AND JOINTS IN FIRE-RATED ASSEMBLIES. COORDINATE W/ ELECTRICAL & MECHANICAL DRAWINGS.
- B. COORDINATE W/ MECHANICAL & ELECTRICAL DRAWINGS FOR APPLICABLE WORK REQUIREMENTS. CONTRACTOR TO INCLUDE TEMPORARY REMOVAL AND REINSTALLATION OF ARCHITECTURAL COMPONENTS TO FACILITATE MECHANICAL & ELECTRICAL WORK.
- C. COORDINATE W/ OWNER'S TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY WORK STANDARDS.
- D. MAKE GOOD ALL ASSEMBLIES AND FINISHES WHERE EXISTING CONSTRUCTION (IE. WALLS, FLOORS, CEILINGS, INTERIOR FINISHES ETC.) ARE IMPACTED BY DEMOLITION AND/OR NEW WORK.
- E. ALL MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO APPLICABLE MECHANICAL & ELECTRICAL DRAWINGS FOR DETAIL REQUIREMENTS.

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
BLK	BLOCK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
CL	CENTRE LINE
CLG	CEILING
CLR	CLEAR
CW	COMPLETE WITH
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
EQ	EQUAL
EX	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FIN	FINISH
FRR	FIRE RESISTANCE RATING
FLR	FLOOR
GA	GAUGE
GALV	GALVANIZED
QWB	GYPSUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
OCB	ONTARIO BUILDING CODE
OC	ON CENTRE
OWSJ	OPEN WEB STEEL JOIST
PLAM	PLASTIC LAMINATE
RA	ROOF ANCHOR
RD	ROOF DRAIN
RWL	RAINWATER LEADER
STC	SOUND TRANSMISSION CLASS
SPEC	SPECIFICATION
SS	STAINLESS STEEL
U/S	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

EQUIPMENT LEGEND

*NOTE: REFER TO EQUIPMENT SCHEDULES

BN#	WORKBENCH-TYPE #
CT#	CART-TYPE #
DS#	DRAWING STORAGE-TYPE #
EQ#	EQUIPMENT-TYPE #
FN#	FURNITURE-TYPE #
FSC#	FIRE SAFETY CABINET-TYPE #
LK#	LOCKER-TYPE #
MH#	MATERIALS HANDLING EQUIPMENT-TYPE#
MR#	MATERIALS STORAGE RACK-TYPE #
PB#	PEGBOARD-TYPE #
RL#	ROLLING LADDER-TYPE #
SR#X	SHELVING RACK-TYPE #-VARIANT X
SS#X	SHELVING STORAGE UNIT-TYPE #-VARIANT X
WB1#	WASTE BINS-TYPE #
WX#	WASHROOM ACCESSORIES-TYPE #

2	2024/10/25	ADDENDUM#7
1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

REVISIONS

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CLIENT:



ARCHITECT:

CARTER AI
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



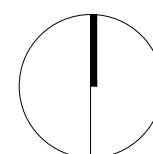
STRUCTURAL ENGINEERING:



HWP WAREHOUSE
UPGRADE

145 Harry Walker Parkway
Newmarket, ON L3Y 7B3

PROJECT NORTH



MEZZANINE ELECTRICAL ROOM
PLAN

ENTERED: LT.

CHECKED: D.C.

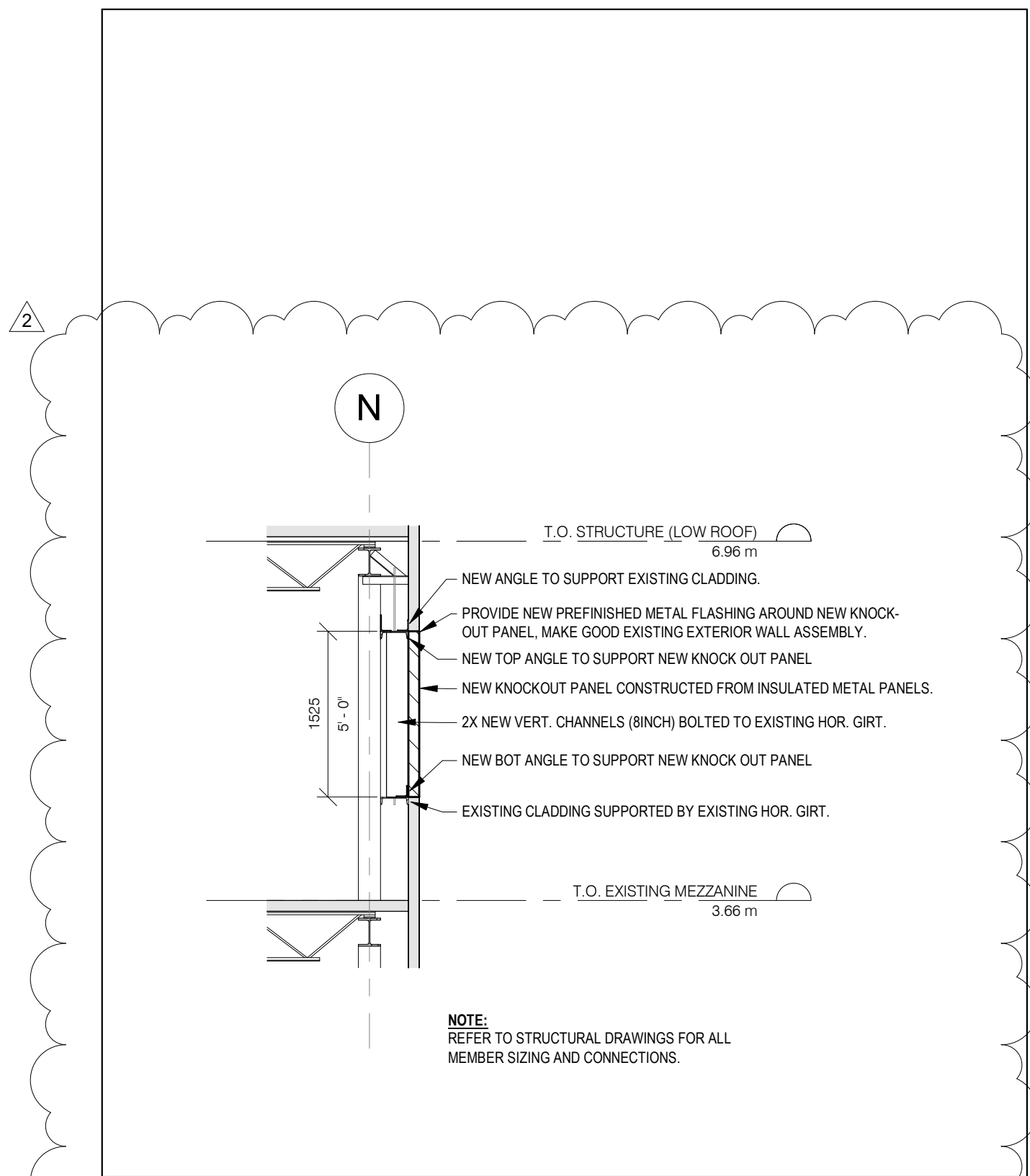
DATE: SEP.2024

PROJECT NO.

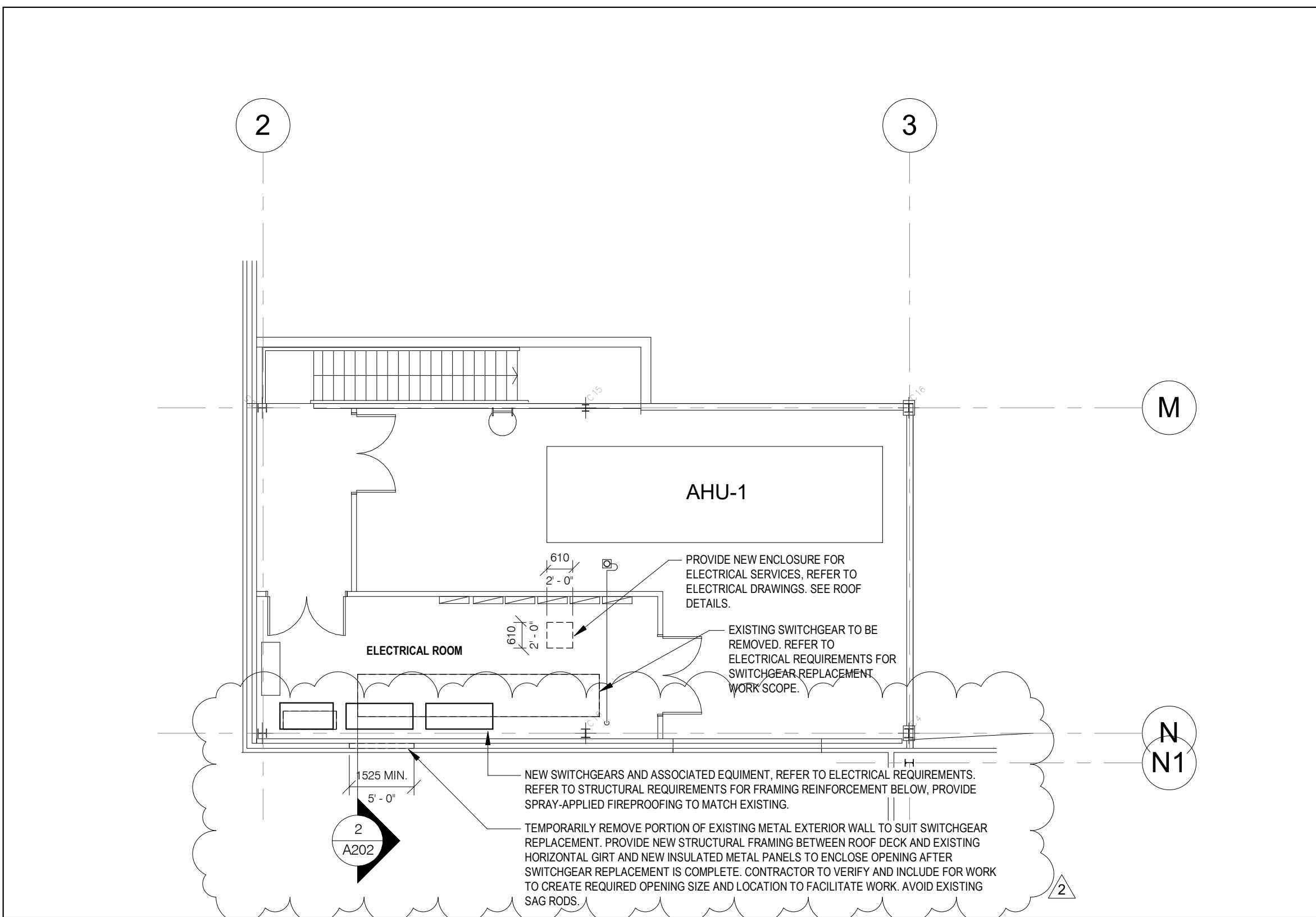
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A202

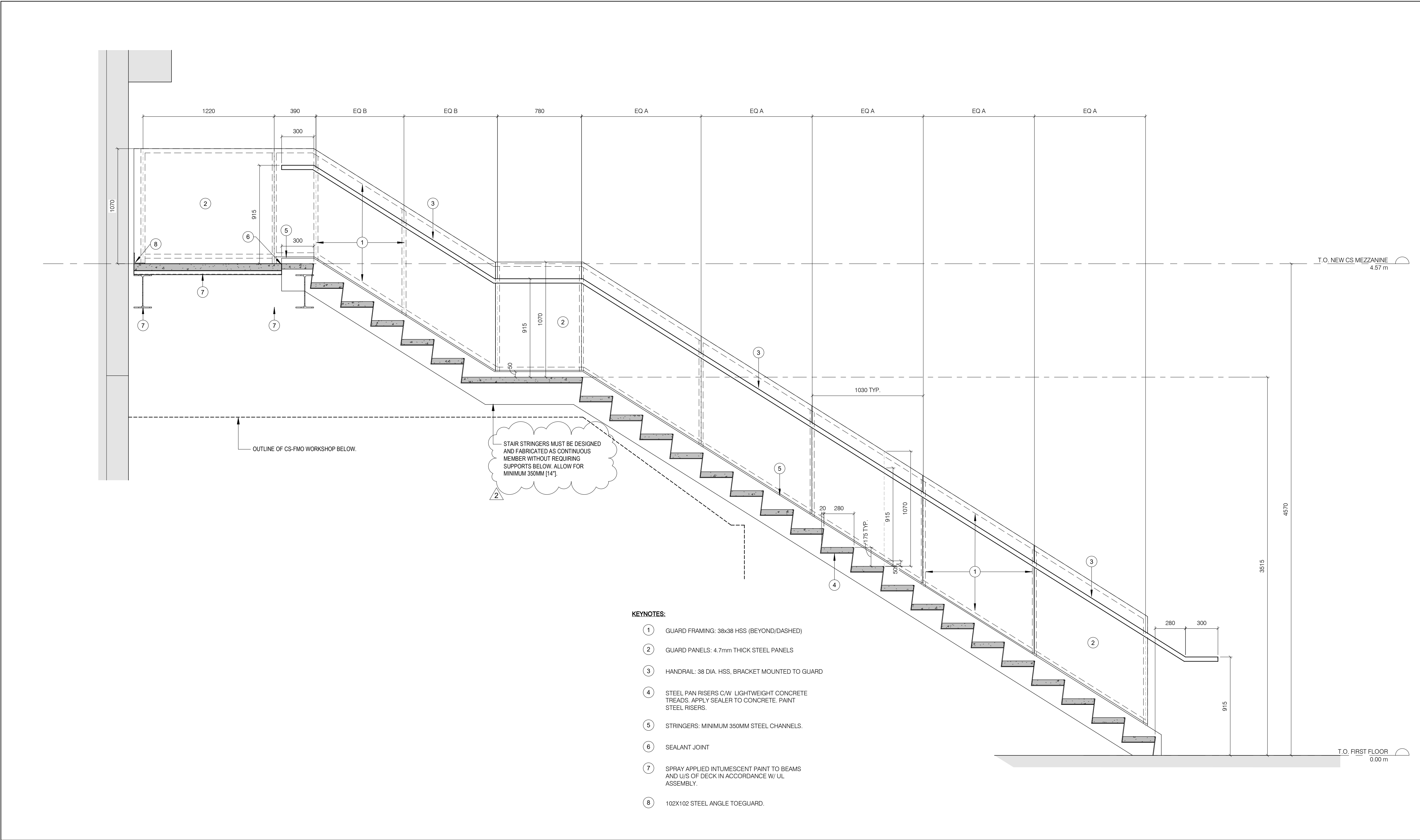
22-136



2 ELECTRICAL ROOM KNOCK-OUT PANEL SECTION
A202 1 : 50



1 MEZZANINE ELECTRICAL ROOM PLAN
A202 1 : 100



KEYNOTES:

- 1 GUARD FRAMING: 38x38 HSS (BEYOND/DASHED)
- 2 GUARD PANELS: 4.7mm THICK STEEL PANELS
- 3 HANDRAIL: 38 DIA. HSS, BRACKET MOUNTED TO GUARD
- 4 STEEL PAN RISERS C/W LIGHTWEIGHT CONCRETE TREADS. APPLY SEALER TO CONCRETE. PAINT STEEL RISERS.
- 5 STRINGERS: MINIMUM 350MM STEEL CHANNELS.
- 6 SEALANT JOINT
- 7 SPRAY APPLIED INTUMESCENT PAINT TO BEAMS AND U/S OF DECK IN ACCORDANCE W/ UL ASSEMBLY.
- 8 102X102 STEEL ANGLE TOEGUARD.

GENERAL CONSTRUCTION NOTES:

- A. COORDINATE W/ MECHANICAL & ELECTRICAL DRAWINGS FOR APPLICABLE WORK REQUIREMENTS. CONTRACTOR TO INCLUDE TEMPORARY REMOVAL AND REINSTALLATION OF ARCHITECTURAL COMPONENTS TO FACILITATE MECHANICAL & ELECTRICAL WORK.
- B. COORDINATE W/ OWNER'S TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY WORK STANDARDS.
- C. MAKE GOOD ALL ASSEMBLIES AND FINISHES WHERE EXISTING CONSTRUCTION (IE. WALLS, FLOORS, CEILINGS, INTERIOR FINISHES ETC.) ARE IMPACTED BY DEMOLITION AND OR NEW WORK.
- D. ALL STRUCTURAL ELEMENTS ARE SHOWN FOR REFERENCE ONLY. REFER TO APPLICABLE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR DETAIL REQUIREMENTS.
- E. SUBMIT SHOP DRAWINGS FOR ALL MISC. METALS AND STRUCTURAL STEEL DESIGNS IN ACCORDANCE W/ SPECIFICATION REQUIREMENTS. DO NOT FABRICATE PRIOR TO REVIEW AND ACCEPTANCE OF SHOP DRAWING SUBMITTALS.
- F. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND INCLUDE RELEVANT INFORMATION ON SHOP DRAWINGS.

ABBREVIATIONS

- ACT ACOUSTIC CEILING TILE
AFF ABOVE FINISH FLOOR
AL ALUMINUM
BLK BLOCK
CB CATCH BASIN
CFS COLD FORMED STEEL
CL CENTRE LINE
CLG CEILING
CLR CLEAR
C/W COMPLETE WITH
CONC CONCRETE
CONT CONTINUOUS
DIA DIAMETER
EQ EQUAL
EX EXISTING
EXT EXTERIOR
FD FLOOR DRAIN
FIN FINISH
FRR FIRE RESISTANCE RATING
FLR FLOOR
GA GAUGE
GALV GALVANIZED
GWB GYPSUM WALL BOARD
HT HEIGHT
HM HOLLOW METAL
HYD HYDRANT
LS LIGHT STANDARD
NTS NOT TO SCALE
OBC ONTARIO BUILDING CODE
OC ON CENTRE
OWSJ OPEN WEB STEEL JOIST
PLAM PLASTIC LAMINATE
RA ROOF ANCHOR
RD ROOF DRAIN
RWL RAINWATER LEADER
STC SOUND TRANSMISSION CLASS
SPEC SPECIFICATION
SS STAINLESS STEEL
U/S UNDERSIDE
W/ WITH
W/C WATER CLOSET

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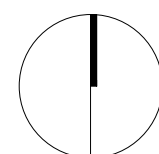
STRUCTURAL ENGINEERING:



HWP WAREHOUSE
UPGRADE

145 Harry Walker Parkway
Newmarket, ON L3Y 7B3

PROJECT NORTH



CS-FMO MEZZANINE STAIR
SECTION

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

DRAWING NO.

A314

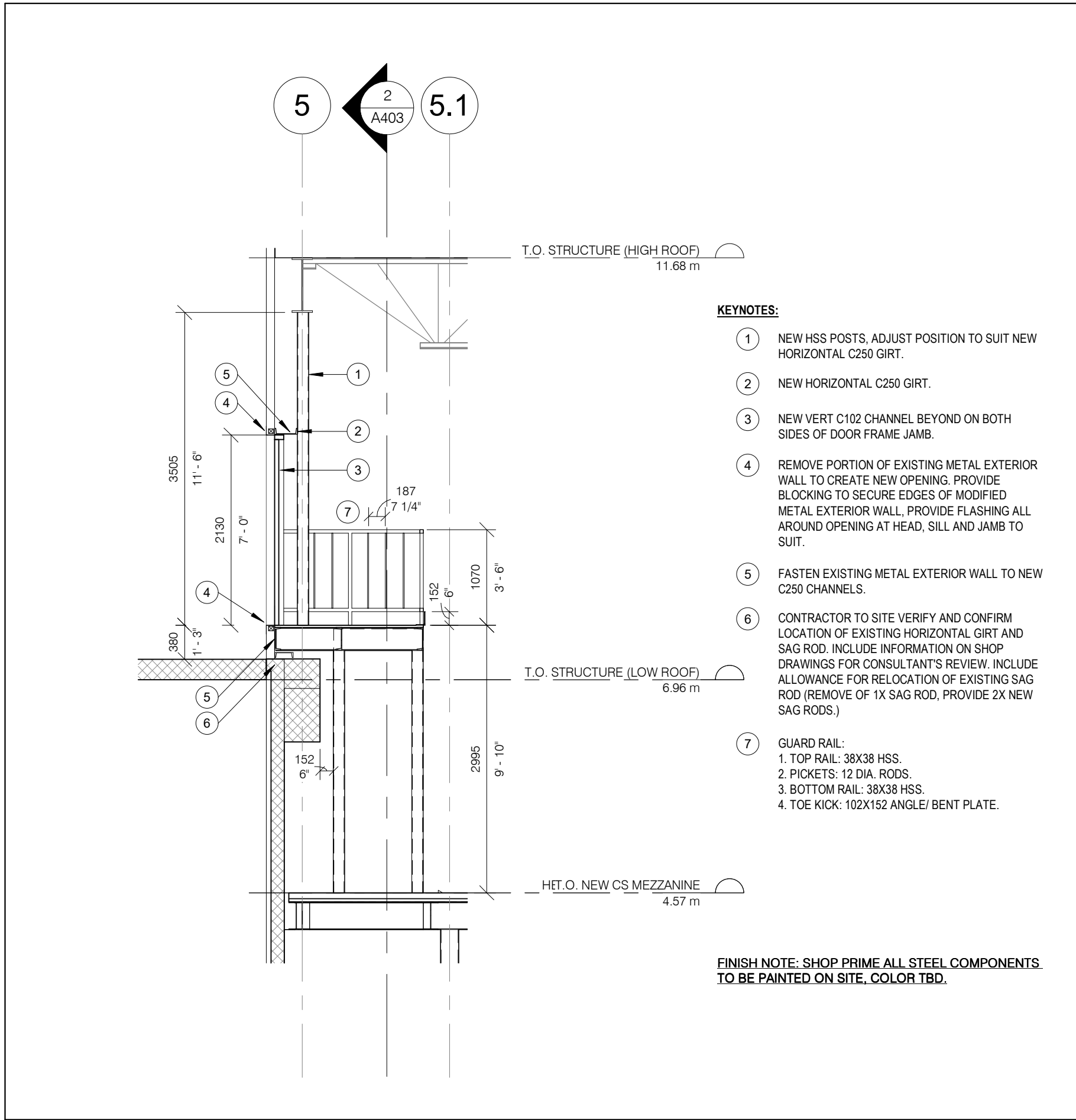
22-136

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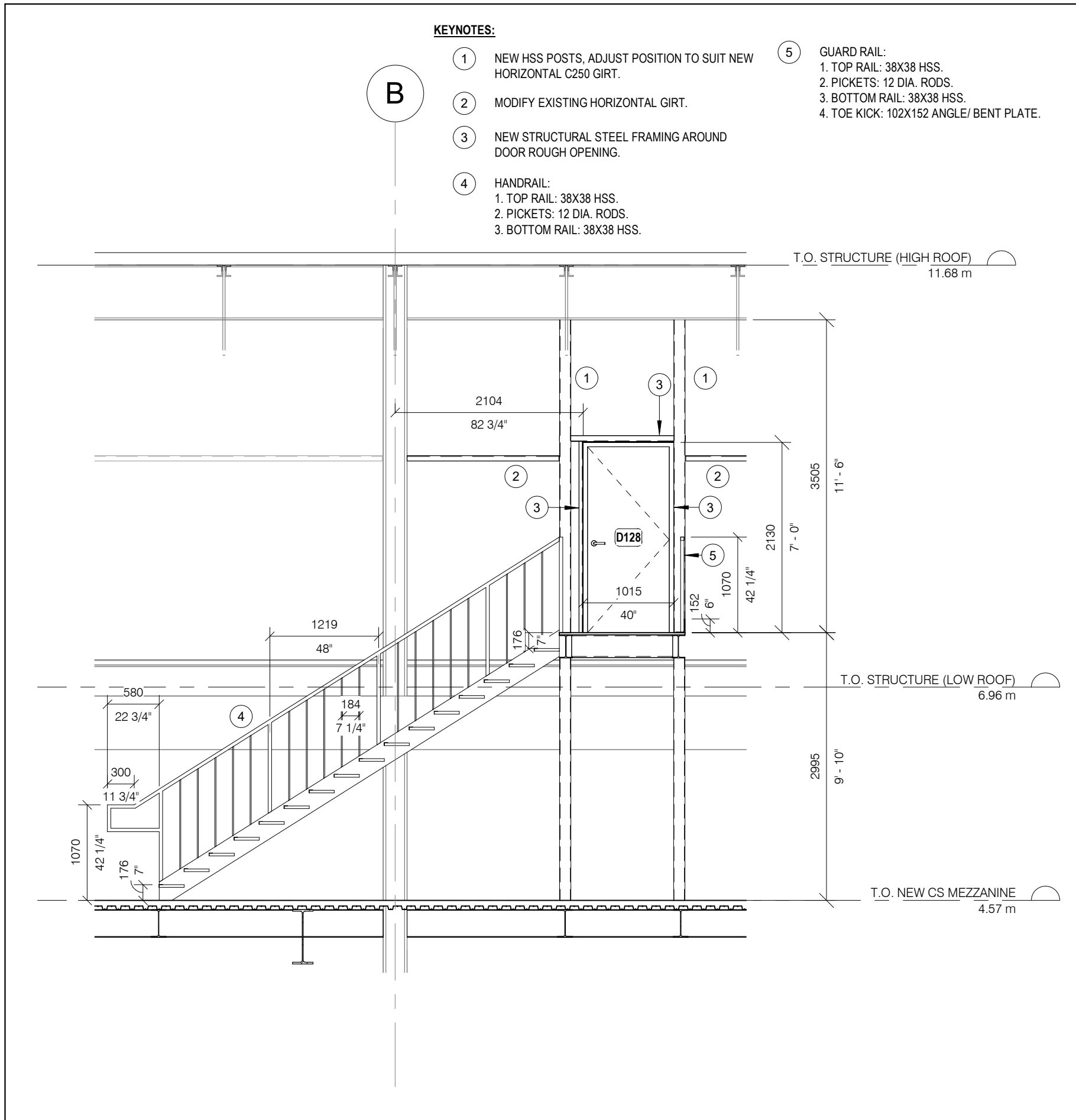
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CS-FMO MEZZANINE STAIR SECTION

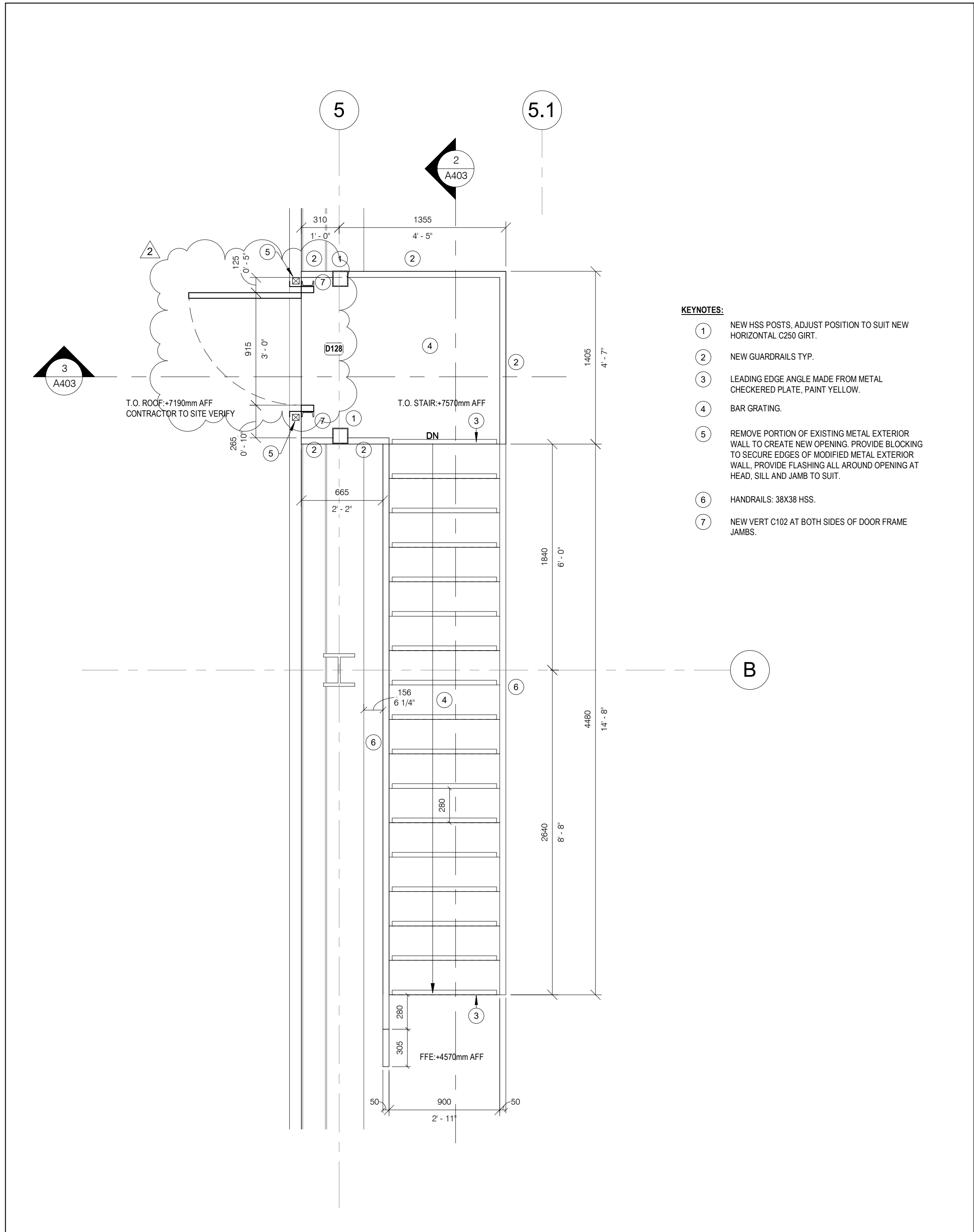
1 : 20



3 ROOF ACCESS STAIR T.O. LANDING SECTION
1 : 50



2 ROOF ACCESS STAIR SECTION
1 : 50



1 CS-FMO ROOF ACCESS STAIR PLAN
1 : 25

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ABBREVIATIONS	
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
BLK	BLOCK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
CL	CENTRE LINE
CLS	CEILING
CLR	CLEAR
C/W	COMPLETE WITH
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
EQ	EQUAL
EX	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FIN	FINISH
FR	FIRE RESISTANCE RATING
FLR	FLOOR
GA	GALVE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
ONC	ONTARIO BUILDING CODE
OC	ON CENTRE
OWSJ	OPEN WEB STEEL JOIST
PLAM	PLASTIC LAMINATE
RA	ROOF ANCHOR
RD	ROOF DRAIN
RWL	RAINWATER LEADER
STC	SOUND TRANSMISSION CLASS
SPEC	SPECIFICATION
SS	STAINLESS STEEL
UIS	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

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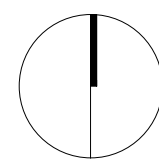
STRUCTURAL ENGINEERING:



HWP WAREHOUSE
UPGRADE

145 Harry Walker Parkway
Newmarket, ON L3Y 7B3

PROJECT NORTH



ROOF ACCESS STAIR DETAILS

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

DRAWING NO.

A403

PART 1 - GENERAL

1.1 NOT USED

1.2 REFERENCES

- .1 American Architectural Manufacturers Association (AAMA)
 - .1 AAMA 501.1: Standard Test Method for Metal Curtain Walls for water penetration using Dynamic Pressure.
 - .2 AAMA 501.2: Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems.
- .2 American Association (AA)
 - .1 DAF-4503, Designation System for Aluminum Finishes.
- .3 American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
- .4 American Society of Civil Engineers (ASCE)
 - .1 ASCE 7: Minimum Design Loads for Buildings and Other Structures.
- .5 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A 653/A 653M, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .2 ASTM A755, Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products.
 - .3 ASTM A 792/A 792M, Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
 - .4 ASTM A924, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
 - .5 ASTM C273, Standard Test Method for Shear Properties of Sandwich Core Materials.
 - .6 ASTM D 523, Test Method for Specular Gloss.
 - .7 ASTM D 822, Standard Practice, For Conducting Test on Paint and Related Coatings and Materials Using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
 - .8 ASTM D 2832, Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .9 ASTM E72, Standard Test Methods of Conducting Strength Tests of Panels for Building Construction.
- .6 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-93.1, Sheet, Aluminum Alloy, Prefinished, Residential.
- .7 Canadian Standards Association (CSA International)
 - .1 CSA S136, North American Specification for the Design of Cold-Formed Steel Structural Members.
 - .2 CSA S136.1, Commentary on North American Specification for the Design of Cold-Formed Steel Structural Members.
- .8 Environmental Choice Program (ECP)
 - .1 CCD-016, Thermal Insulation.

- .2 CCD-046, Adhesives.
- .3 CCD-046, Sealants and Caulking Compounds.
- .9 FM Global (FM)
 - .1 Approval Standard 4880; Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems.
 - .2 Approval Standard 4881; Class 1 Exterior Wall Systems.
- .10 National Fire Protection Agency (NFPA)
 - .1 NFPA 259, Standard Test Method for Potential Heat of Building Materials.
 - .2 NFPA 268, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.
 - .3 NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.
 - .4 NFPA 286, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- .11 UL Canada (ULC)
 - .1 CAN/ULC-S101, Standard Methods of Fire Endurance Tests of Building Construction and Materials.
 - .2 CAN/ULC-S102, Standard Method of Test for Surface Building Characteristics of Building Materials and Assemblies.
 - .3 CAN/ULC-S127, Standard Corner Wall Method of Test for Flammability Characteristics of Non-Melting Building Materials.
 - .4 CAN/ULC-S134, Fire Test of Exterior Wall Assemblies

1.3 SYSTEM DESCRIPTION

- .1 Design Requirements
 - .1 Design metal panel wall system in accordance with CSA S136 and CSA S136.1.
 - .2 Design metal panel wall to provide for thermal movement of component materials caused by ambient temperature range expected in geographical region of installation without causing buckling, failure of joint seals, undue stress on fasteners or other detrimental effects.
 - .3 Include expansion joints to accommodate movement in wall system and between wall system and building structure, caused by structural movements, without permanent distortion, damage to infills, racking of joints, breakage of seals, or water penetration.
 - .4 Design members to withstand dead load and wind loads calculated in accordance with NBC and applicable local regulations, to maximum allowable deflection of 1/180th of span.
 - .5 Provide for positive drainage of condensation occurring within wall construction and water entering at joints, to exterior face of wall in accordance with NRC "Rain Screen Principles".
 - .6 Provide minimum thermal resistance of 4.1 RSI calculated with design wind loads in accordance with [ASHRAE] procedures.
 - .7 Permeance through wall system not to exceed 0.02L/(sm²) at 75 Pa.
 - .8 Design wall system to accommodate specified erection tolerances of structure.

1.4 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet in accordance with Division 01.

- .2 Submit two copies of WHMIS SDS - Safety Data Sheets in accordance with Division 01. Indicate VOC's:
 - .1 Caulking and sealant materials during application and curing.
 - .2 Finishing materials.
 - .3 Insulation adhesives.
 - .4 Paints.
 - .5 Isolation coatings.
- .2 Shop Drawings:
 - .1 Submit Shop Drawings in accordance with Division 01.
 - .2 Indicate profile, gauge of exterior and interior sheet, location and layout of panels, location and type of fasteners, shape and method of attachment of all trim, locations and type of sealants, installation sequence, coordination Drawings showing panels in relationship to required locations for structural support and project specific detailed Drawings showing attachment to structural support, and details required for weather-tight installation.
 - .3 Ensure each Shop Drawing submitted has been stamped by licensed professional engineer registered in Ontario.
 - .4 Panel Analysis: Provide panel calculations to verify panels will withstand the design wind loads indicated without detrimental effects or deflection exceeding L/180. Include effects of thermal differential between the exterior and interior panel facings and resistance to fastener pullout.
- .3 Samples:
 - .1 Submit samples in accordance with Division 01.
 - .2 Submit duplicate 3"(76.2) x 5"(127) samples of wall system, representative of materials, finishes and colours.
- .4 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions including proper material storage, material handling, installation sequence, panel location(s), and attachment methods, details and required trim and accessories.
- .5 Manufacturers' Field Reports: Submit copies of manufacturers field reports.
- .6 Submit documentation that products have been certified in accordance with ISO 14025.

- | | |
|---|---|
| <u>1.5 QUALITY ASSURANCE</u> | <ul style="list-style-type: none">.1 Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties..2 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements..3 Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements..4 Manufacturer to have a minimum of five years experience in the actual production of insulated wall panels. Manufacturer shall demonstrate past experience with examples of projects of similar type and exposure..5 Manufacturer to be registered with a Program Operator with a Certified, Environmental Product Declaration, in conformance with ISO 14025..6 Installer Qualifications: Authorized by the manufacturer and the work shall be supervised by a person having a minimum of five years experience installing insulated wall panels on similar type and size projects..7 Warranty:<ul style="list-style-type: none">.1 Provide manufacturer's printed standard warranty covering materials, workmanship, structural performance including bond integrity, deflection and buckling for a coverage period of two (2) years from date of substantial completion..2 Provide manufacturer's printed standard finish warranty covering metal panels evidence deterioration of finish, including flaking or peeling for a coverage period of twenty (20) years from date of substantial completion. |
| <u>1.6 PRODUCT DELIVERY, HANDLING AND STORAGE</u> | <ul style="list-style-type: none">.1 Deliver panel materials and components in manufacturer's original, unopened, undamaged packaging with identification labels intact and in accordance with Division 01..2 Store wall panel materials on dry, level, firm, and clean surface. Stack no more than two bundles high. Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape. |
| <u>1.7 WASTE MANAGEMENT AND DISPOSAL</u> | <ul style="list-style-type: none">.1 Separate and recycle waste materials in accordance with Division 01..2 Remove from Site and dispose of packaging materials at appropriate recycling facilities..3 Divert unused paint and joint sealer material from landfill to appropriate official hazardous material collections Site..4 Do not dispose of unused paint and joint sealer materials into sewer systems, into lakes, streams, onto ground or in locations where it will pose health or environmental hazard. |

PART 2 – PRODUCTS

2.1 MANUFACTURER

- .1 **Kingspan Insulated Panels Ltd.**
 - .1 Basis-of-Design Product: **Kingspan Vektra**
 - .2 **Thickness: 4" minimum.**
- .2 Substitutions: Any substituted product must demonstrate equivalent or superior performance in the following criteria:
 - .1 Structural/ Deflection Performance
 - .2 Fatigue Resistance
 - .3 Freeze/ Heat Cycling
 - .4 Water Penetration
 - .5 Air Infiltration
 - .6 Sound Transmission Coefficient (STC) Rating
 - .7 Smoke & Flame Spread Rating
 - .8 Insulation R-Value
 - .9 Thickness & Width
 - .10 Finish & Texture

2.2 WALL PANEL
PERFORMANCE CRITERIA

- .1 Structural Test: performance to be verifiable by witnessed structural testing for simulated wind loads in accordance with ASTM E72 and E330. Deflection criteria shall be L/180.
- .2 Fatigue Test: there shall be no evidence of metal/ insulation interface delamination when the panel is tested by simulated wind loads both positive and negative, when applied for two million alternate cycles of L/180 deflection.
- .3 Freeze/ Heat Cycling test: panels shall exhibit no delamination, surface blisters, permanent bowing or deformation when subjected to cyclic temperature extremes of minus 20 deg. F to plus 180 deg. F temperature for twenty one, eight-hour cycles.
- .4 Water Penetration: there shall be no uncontrolled water penetration through the panel joints at a pressure differential of 20 psf, when tested to ASTM E331.
- .5 Air Infiltration: shall not exceed 0.001 cfm/sf at 20 psf air pressure differential when tested to ASTM E283.
- .6 Humidity Test: panels shall exhibit no delamination or metal interface corrosion when subjected to plus 140 deg. F temperature and 100 percent relative humidity for a total of 1200 hours.
- .7 Autoclave Test: Panels shall exhibit no delamination or shrinkage/ melting of the foam core from the metal skins after being subjected in an autoclave to a pressure of 13.8 Kpa. At a temperature of plus 218 deg. F for a period of 2.5 hours.
- .8 Panels shall have a minimum sound transmission coefficient (STC) of 22 when tested in accordance with ASTM E90 and rated in accordance with ASTM E413.
- .9 Panel Fire Tests:
 - .1 Fire endurance test – 10 minutes: Panels remained in place without joint stitch fastening per CAN/ULC-S101.

- .2 Fire endurance test – 15 minutes: Panels remained in place with joint stitch fastening per CAN/ULC-S101.
- .10 Flame spread and smoke developed tests on exposed insulating core:
 - .1 Flame spread: less than 25.
 - .2 Smoke Developed: less than 250.
 - .3 Tests performed in accordance with CAN/ULC-S102 and ASTM E84.
- .11 Fire Test Response Characteristics: Steel-faced panels with polyisocyanurate (ISO) core shall fully comply with Chapter 26 of International Building Code regarding the use of Foam Plastic. The following tests shall be available upon request for submission to the Authority Having Jurisdiction:
 - .1 FM 4880: Class 1 rated per FM Global, panels are approved for use without a thermal barrier and do not create a requirement for automatic sprinkler protection.
 - .2 ASTM E84 Surface Burning Characteristics; finished panel shall have a flame spread equal to 5, and smoke developed equal to 125.
 - .3 NFPA 285 Intermediate Scale Multi-story Fire Evaluation; successfully passed acceptance criteria.
 - .4 UL 263 Fire resistive Rating; classified as a component of a fire-rated wall assembly for 1-hour and 2-hour rating Design No. U053.
 - .5 ASTM D1929 Minimum Flash and Self Ignition; established for foam core.
 - .6 NFPA 259 Potential Heat Content; Established for foam core.
 - .7 S101, S102, S127, S134 UL Canada fire test standards; successfully passed.
- .12 Insulating Core: Polyisocyanurate (ISO) core, ASTM C591 Type IV, CFC and HCFC free, compliant with Montreal Protocol and Clean Air act, with the following minimum physical properties:
 - .1 Core is 90 percent closed cell when tested in accordance with ASTM D6226.
 - .2 Panel shall provide a minimum R-value of 8 / inch thickness when tested in accordance with ASTM C518 at a mean temperature of 75 degrees F (24 deg. C)
 - .3 Foam has a density of 2.2 to 2.8 pounds per cubic foot when tested in accordance with ASTM D1622.
 - .4 Compressive Stress:
 - .1 Parallel to Rise: 42 psi.
 - .2 Perpendicular to Rise: 24 psi.
 - .3 Tested in accordance to ASTM D1621.
 - .5 Shear Stress: 17.5 psi when tested in accordance with ASTM C273.
 - .6 Tensile Stress: 25 psi when tested in accordance with ASTM D1623.
 - .7 Oven Aging at 200 deg. F:
 - .1 1 day: plus 1 percent volume change.
 - .2 7 days: plus 3 percent volume change.
 - .3 Tested according to ASTM D2126.
 - .8 Low Temperature Aging at -20 degrees F:
 - .1 1 day: 0 percent volume change.

- .2 7 days: 0 percent volume change.
- .3 Tested according to ASTM D2126.

2.3 MATERIALS

- .1 Exterior face of panel: AZ50 Galvalume to ASTM A792.
 - .1 Gauge: 22 Ga.
 - .2 Profile: flat
 - .3 Texture: Smooth
 - .4 Finish Colour: Provide manufacturer's standard colour range for review and selection during Shop Drawing review period.
 - .5 Finish System: 1.0 mil. Fluoropolymer (PVDF) Two Coat system: 0.2 mil primer with 0.8 mil Kynar 500 (70 percent) solid colour coat.
- .2 Interior Face of Panel: AZ50 Galvalume to ASTM A792.
 - .1 Gauge: 22 Ga.
 - .2 Profile: Shadowline
 - .3 Texture: Standard smooth.
 - .4 Paint Finish Colour: USDA Imperial White
 - .5 Finish: modified polyester, dry film thickness of 1.0 mil including primer.
- .3 Insulation Core: Foamed-in-place polyisocyanurate (PIR) 2.3-2.6 lbs/cu. ft. to ASTM C591.
- .4 Finish Characteristics:
 - .1 Specular Gloss: 15±5 measured at 60° angle to ASTM D523.
 - .2 Coating thickness: not less than 1.0 mil.
 - .3 Chalk Resistance Rating: 8 to ASTM D4214.
 - .4 Colour Retention: 5000 hours to ATM G152 & G154.
 - .5 Colour Tolerances: 5ΔE Hunter units to ASTM D2244.
 - .6 Humidity Resistance: 1500 hours at 100% humidity and 95 deg. F., rating of 10 to ASTM D2247 & D714.
- .5 Fasteners: Cadmium plated steel self-drilling fasteners with neoprene washer.
 - .1 Material: hex-head type with steel and neoprene washer and 12 Ga.
 - .2 Size: as recommended by manufacturer.
- .6 Perimeter Trim:
 - .1 Fabricated perimeter trim and metal flashing: to be same gauge, material and coating colour as exterior face of insulated metal wall panel.
 - .2 Extruded perimeter trim: shall be extruded aluminum 6063-T5 alloy with spray applied PVF coating in same colour as exterior face of insulated metal wall panel.
- .7 Sealants: butyl, non-skinning/curing type per panel manufacturer's recommendation.
- .8 Butyl Tape: As per panel manufacturer's recommendation.
- .9 Gasket: black EPDM gasket insert.

2.4 PANEL ASSEMBLY

- .1 Panel Dimensions:
 - .1 Thickness: 4"
 - .2 Widths: As indicated on Drawings.

.3 Lengths: As indicated on Drawings.

.2 Panel Joint Configuration: Double tongue and groove interlocking rainscreen joint.

.3 Attachment: fasteners and stainless steel attachment clip completely concealed within panel side joint.

.4 Vertical Panel Joint Reveals: 1/8" inch standard.

2.5 COMPONENTS

.1 Exterior corners: of same profile, material and finish as adjacent cladding material, factory built and brake formed to required angle, concealed corner brace, pop rivet connections with painted head to match cladding.

.2 Exposed joint (perpendicular to profile): ends of cladding sheet shop cut clean and square, backed with tight fitting filler lapping back of joint, exposed components colour matched to cladding.

.3 Accessories: cap flashings, drip flashings, internal corner flashings, copings and closures for head, jamb, sill and corners, of same material, thickness and finish as exterior cladding, brake formed to shape.

.4 Sub-girts: Refer to Drawings.

.5 Expansion joints: Refer to Drawings.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: Comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 PREPARATION

.1 Protect metal surfaces in contact with concrete, masonry mortar, plaster or other cementitious surface with isolation coating.

3.3 INSTALLATION

.1 Installation shall be in accordance with manufacturer's installation guidelines.

.2 Install panels plumb, level, and true-to-line to dimensions and layout indicated on approved Shop Drawings.

.3 Cut panels prior to installing, to sizes indicated on Drawings, using a power circular saw and with fine tooth carbide top blade per manufacturer's instructions. Personnel should wear respiratory and eye protection devices.

.4 Butyl Weather Barrier Sealant:

.1 Apply non-skinning butyl sealant where indicated on Drawings and manufacturer's installation instructions as necessary to establish the vapour barrier for the panels.

.2 Use non-skinning butyl tube sealant only for tight metal-to-metal contact.

.3 Do not use non-skinning butyl tube sealant to bridge gaps.

- .5 Place panel fasteners through pre-punched holes in attachment clips, concealed within the joint of the panel. Secure units to the structural supports. Space clips as recommended by manufacturer or otherwise indicated on Drawings.
- .6 Trim Installation:
 - .1 Place trim and trim fasteners as indicated on Drawings.
 - .2 Field drill weep holes where appropriate in horizontal trim; ¼ inch (7mm) diameter at 24 inch (610mm) on centre.
 - .3 Place a continuous strip of butyl tube sealant between the inside back face of closure trims and interior panel faces for proper vapour seal.
- .7 Sealant Installation for Exposed Joints:
 - .1 Clean and prime surfaces to receive exterior exposed sealants in accordance with sealant manufacturer's recommendations.
 - .2 Follow sealant manufacturer's recommendations for joint width-to-depth ratio, application temperature range, size and type of backer rod, and compatibility of materials for adhesion.
 - .3 Direct contact between butyl and silicone sealants shall not be permitted.
- .8 Provide alignment bars, brackets, clips, inserts, shims as required to securely and permanently fasten wall system to building structure.

3.4 NOT USED

3.5 CONTROL/EXPANSION JOINTS

- .1 Construct control expansion joints as per manufacturer's recommendation.
- .2 Use cover sheets, of brake formed profile, of same material and finish as adjacent material.
- .3 Use mechanical fasteners to secure sheet materials.
- .4 Assemble and secure wall system to structural frame so stresses on sealants are within manufacturers' recommended limits.

3.6 CONSTRUCTION

- .1 Site Tolerances:
 - .1 Maintain following installation tolerances:
 - .1 Maximum variation from plane: [10] mm/m of length and up to [20] mm/100 m maximum.
 - .2 Maximum offset from true alignment between two adjacent members abutting end to end, in line: 0.75 mm.

3.7 FIELD QUALITY CONTROL

- .1 Have manufacturer of products supplied under this Section review Work involved in handling, installation/application, protection and cleaning of its product[s], and submit written reports in acceptable format to verify compliance of Work with Contract.
- .2 Manufacturer's field services: Provide manufacturer's field services consisting of product use recommendations and periodic Site visits for inspection of product installation in accordance with manufacturer's

instructions.

- .3 Schedule Site visits to review Work at stages listed:
 - .1 After delivery and storage of products, and when preparatory Work on which Work of this Section depends is complete, but before installation begins.
 - .2 Twice during progress of Work at 25% and 60% complete.
 - .3 Upon completion of Work, after cleaning is carried out.
 - .4 Testing Agency: Contractor to engage independent testing and inspection agency, approved by manufacturer representative & Consultant, to perform field tests and inspections and to prepare reports of findings.
 - .5 Field Water test: after completing portion of metal wall panel assembly including accessories and trim, test a 2-bay area selected by the architect for water penetration in accordance with AAMA 501.2. and have results verified by manufacturer representative.
 - .6 Obtain reports within three days of review and submit.
- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
 - .2 Wash down exposed interior and exterior surfaces using solution of mild domestic detergent in warm water, applied with soft clean wiping cloths. Wipe interior surfaces clean as part of final clean-up.
 - .3 Remove excess sealant with recommended solvent.
 - .4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

3.8 CLEANING

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES	.1	Room accessories and furnishings.
1.2 RELATED SECTIONS	.1	Not used.
1.3 REFERENCES	.1	American National Standards Institute (ANSI). .1 ANSI A208.1, Standard for Particleboard.
	.2	American National Standards Institute (ANSI)/Business and International Furniture Manufacturers Association (BIFMA) International. .1 ANSI/BIFMA X5.1, American National Standard for Office Furnishings, General Purpose Office Chairs - Tests. .2 ANSI/BIFMA X5.6, American National Standard for Office Furnishings - Panel Systems.
	.3	American Society for Testing and Materials International, (ASTM). .1 ASTM C 297, Standard Test Method for Flatwise Tensile Strength of Sandwich Connections.
	.4	The Business and Institutional Furniture Manufacturer's Association. .1 BIFMACMD-1, BIFMA Chair Measuring Device.
	.5	Reserved. .1 Not used.
	.6	Canadian General Standards Board (CGSB). .1 CAN/CGSB 44.227, Freestanding Office Desk Products and Components. .2 CAN/CGSB-44.232, Task Chairs for Office Work with Visual Display Terminals.
	.7	Canadian Standards Association (CSA International). .1 CSA C22.2 No.9.0 General Requirements for Luminaires. .2 CAN/CSA-C22.2 No.203, Modular Wiring Systems for Office Furniture.
	.8	Health Canada/Workplace Hazardous Materials Information System (WHMIS). .1 Material Safety Data Sheets (MSDS).
	.10	The Master Painters Institute (MPI). .1 Architectural Painting Specification Manual.
	.11	Underwriters' Laboratories Canada (ULC). .1 CAN/ULC-S102, Standard Method of Test for Surfaces Burning Characteristics of Building Materials and Assemblies.
	.12	Underwriters' Laboratories (UL). .1 UL 1286, Standard for Office Furnishings.

<u>1.4 SUBMITTALS</u>	.1	Submit product data in accordance with Division 01.
	.2	Submit shop drawings where applicable.
	.3	Submit manufacturer's installation instructions.
<u>1.5 WASTE MANAGEMENT AND DISPOSAL</u>	.1	Separate waste materials for disposal and recycling in accordance with Division 01.
<u>1.6 WARRANTY</u>	.1	Provide manufacturer's standard warranties for specified items.
<u>PART 2 - PRODUCTS</u>		
<u>2.1 MATERIALS</u>	.1	Furniture and Room Accessories: Supply and install equipment, furniture, and room accessories in accordance with drawing, schedules, this specification section.
	.2	Provide all in-wall blocking and sheet steel reinforcement to metal stud framing required for wall-mounted items including those to be supplied and installed by Owner.
<u>2.2 PRODUCTS</u>	.1	BN2 – WORKBENCH TYPE 2 .1 Manufacturer: ULINE .2 Model: Welded Steel Workbench – H3626 .3 Size: 96"Lx36"W .4 Material: 12Ga. Steel .5 Finish: Powder-coated. .6 Accessories: None
	.2	BN3 – WORKBENCH TYPE 3 .1 Manufacturer: Quantum Machinery Group .2 Model: Siegmund Professional System 16 .3 Size: 48"L x 48"W .4 Legs: Standard .5 Finish: Standard. .6 Accessories: Basic Set 1:4-161200
	.3	BN4 – WORKBENCH TYPE 4 .1 Manufacturer: ULINE .2 Model: Stainless Steel Worktable with Sink – H8967L .3 Size: 72"Lx30"W .4 Material: 16GA. Type 304 Stainless Steel .5 Finish: SS .6 Accessories: None
	.4	BN7A – WORKBENCH TYPE 7A .1 Manufacturer: ULINE .2 Model: Mobile Welded Steel Table – H4996 .3 Size: 60"Lx30"W .4 Material: 12Ga. Steel .5 Finish: Powder-coated.

- .6 Accessories: None
- .5 BN7B – WORKBENCH TYPE 7B
 - .1 Manufacturer: Rousseau
 - .2 Model: Open Workbench, Laminated Wood Top – WSA2019
 - .3 Size: 60"Lx30"Wx34"H
 - .4 Material: Steel, Wood
 - .5 Finish: Painted Steel, Laminated Wood
 - .6 Accessories: None
- .6 BN7C – WORKBENCH TYPE 7C
 - .1 Manufacturer: ULINE
 - .2 Model: Deluxe Workstation Starter Table – H6341SS
 - .3 Size: 60"Lx30"W
 - .4 Material: 16 Ga. Stainless Steel.
 - .5 Finish: Tabletop - #4 Finish
 - .6 Accessories: Provide 3x pegboard panels, bin rails c/w bins, upper shelf.
- .7 BN7D – WORKBENCH TYPE 7D
 - .1 Manufacturer: ULINE
 - .2 Model: Welded Steel Workbench – H3077
 - .3 Size: 60"Lx30"W
 - .4 Material: 12 Ga. Stainless Steel
 - .5 Finish: Powder-coated Gray.
 - .6 Accessories: None
- .8 BN8A – WORKBENCH TYPE 8A
 - .1 Manufacturer: Rousseau
 - .2 Model: Open Workbench, Laminated Wood Top – WSA2023
 - .3 Size: 72"Lx30"Wx34"H
 - .4 Material: Steel, Wood
 - .5 Finish: Painted Steel, Laminated Wood
 - .6 Accessories: None
- .9 BN8B – WORKBENCH TYPE 8B
 - .1 Manufacturer: Rousseau
 - .2 Model: Mobile Workbench, Laminated Wood Top – WSW2023
 - .3 Size: 72"Lx30"Wx34 7/8"H
 - .4 Material: Steel, Wood
 - .5 Finish: Painted Steel, Laminated Wood
 - .6 Accessories: None
- .10 BN10A – WORKBENCH TYPE 10A
 - .1 Manufacturer: Rousseau
 - .2 Model: Open Workbench, Painted Steel Top – WSA1019
 - .3 Size: 60"Lx30"Wx34"H
 - .4 Material: Steel
 - .5 Finish: Painted Steel
 - .6 Accessories: None
- .11 BN10B – WORKBENCH TYPE 10B
 - .1 Manufacturer: Rousseau
 - .2 Model: Mobile Workbench, Painted Steel Top – WSW1019
 - .3 Size: 60"Lx30"Wx34 7/8"H
 - .4 Material: Steel

- .5 Finish: Painted Steel
 - .6 Accessories: None
- .12 BN11 – WORKBENCH TYPE 11
- .1 Manufacturer: ULINE
 - .2 Model: Standard Cabinet Workbench, Maple Top – H6993MAPLE
 - .3 Size: 48"Lx30"W
 - .4 Material: Maple Top.
 - .5 Finish: Tabletop - Lacquer Finish, Cabinet & Frame – Powder Coated Steel
 - .6 Accessories: None.
- .13 BN12 – WORKBENCH TYPE 12
- .1 Manufacturer: Quantum Machinery Group
 - .2 Model: Siegmund Professional System 16
 - .3 Size: 2m x 4m, grid size: 50x50mm
 - .4 Material: Premium Steel S355J2+N, Approx. 11.5mm – 13mm
 - .5 Finish: Professional Extreme 8.7
 - .6 Accessories:
 - .1 Legs: Provide height adjustable legs with casters and locking brakes.
 - .2 Tool Kit: Set#4 – 99 Piece Accessory Kit for System 16 welding table.
- .14 DS1 – DRAWER CABINET TYPE 1
- .1 Manufacturer: SAFCO
 - .2 Model: Two (2x) 4996TSR stacked + 4977TSR Base
 - .3 Size: 46.5"Lx35.5"Wx16.5"H
 - .4 Material: N/A
 - .5 Finish: Arabian Sky
 - .6 Accessories: None
- .15 FN1 – FURNITURE TYPE 1
- .1 Manufacturer: ULINE
 - .2 Model: Standard Flat Top Shop Desk – H5527
 - .3 Size: 34.5"Lx30"Wx55"H
 - .4 Material: Table Legs – 14 Ga. Steel, Drawer Side Wall – 16Ga. Steel
 - .5 Finish: Powder-coated.
 - .6 Accessories: None
- .16 FN5 – FURNITURE TYPE 5
- .1 Manufacturer: ULINE
 - .2 Model: Lateral File Cabinet – H6394BL
 - .3 Size: 42"Lx18"Wx41"H
 - .4 Material: Steel TBD
 - .5 Finish: Painted TBD
 - .6 Accessories: None
- .17 FSC1 – FLAMMABLE STORAGE CABINET TYPE 1
- .1 Manufacturer: ULINE
 - .2 Model: Standard Flammable Storage Cabinet – H1564MY
 - .3 Size: 43"Lx18"Wx65"H
 - .4 Material: Galvanized Steel
 - .5 Finish: Painted
 - .6 Accessories: None

- .18 GB1 – GARBAGE BIN TYPE 1
 - .1 Manufacturer: Swish
 - .2 Model: Globe Soft Wastebasket, Black 26L – 9756BLA
 - .3 Size: 14"Lx10.5"Wx15"H
 - .4 Material: Plastic
 - .5 Finish: N/A
 - .6 Accessories: None
- .19 GB2 – GARBAGE BIN TYPE 2
 - .1 Manufacturer: ULINE
 - .2 Model: H-1045
 - .3 Size: 32 Gallon
 - .4 Material: Plastic
 - .5 Finish: Black
 - .6 Accessories: Dollies and Lids
- .20 PB1 – PEG BOARD TYPE 1
 - .1 Manufacturer: ULINE
 - .2 Model: Steel Pegboard – H6450GR
 - .3 Size: 96"Lx48"W
 - .4 Material: 2 Ga. Steel
 - .5 Finish: Powder-coated.
 - .6 Accessories: None
- .21 RB1 – RECYCLING BIN TYPE 1
 - .1 Manufacturer: Swish
 - .2 Model: Globe Soft Recycling Wastebasket – 2956-BLU
 - .3 Size: 26 Litres
 - .4 Material: Plastic
 - .5 Finish: N/A
 - .6 Accessories: None
- .22 WX1 – WASHROOM ACCESSORY TYPE 1
 - .1 Manufacturer: Swish
 - .2 Model: Frost Universal Hand Towel Dispenser – 5050
 - .3 Size: 10.6"Lx6.9"Wx9.7"H
 - .4 Material: Steel
 - .5 Finish: Painted
 - .6 Colour: White
 - .7 Accessories: None
- .23 CT1 – CART TYPE 1
 - .1 Manufacturer: ULINE
 - .2 Model: Welded Platform Trucks – H6172
 - .3 Size: 30x48"
 - .4 Material: 12 GA. Steel
 - .5 Finish: Blue.
 - .6 Accessories: None
- .24 CT2 – CART TYPE 2
 - .1 Manufacturer: ULINE
 - .2 Model: Adjustable Panel Truck – H4945
 - .3 Size: 60"Lx30"W
 - .4 Material: 14GA. Steel
 - .5 Finish: Powder-coated.

.6 Accessories: None.

- .25 CT3 – CART TYPE 3
.1 Manufacturer: ULINE
.2 Model: Pegboard Cart with Shelves – H9013
.3 Size: 51"Lx24"Wx57"H
.4 Material: 20 GA. Steel
.5 Finish: Powder-coated
.6 Accessories: None
- .26 MR1 – MATERIAL RACK TYPE 1
.1 Manufacturer: ULINE
.2 Model: Vertical Bar Rack – H4888
.3 Size: 36"Lx24"Wx85"H
.4 Material: Posts - 11 Ga. Steel, Shelves – 17 Ga. Steel
.5 Finish: N/A
.6 Accessories: None
- .27 MR2 – MATERIAL RACK TYPE 2
.1 Manufacturer: ULINE
.2 Model: Portable Stack Rack – H9221
.3 Size: 48"Lx48"Wx60"H
.4 Material: 10 Ga. Steel
.5 Finish: Powder-coated.
.6 Accessories: None
- .28 RL1 – LADDER TYPE 1
.1 Manufacturer: ULINE
.2 Model: 3 Step Narrow Aisle Ladder – H5076
.3 Size: 31"Lx24"Wx69"H
.4 Material: 16 Ga. Steel
.5 Finish: Powder-coated.
.6 Accessories: None
- .29 RL2 – LADDER TYPE 2
.1 Manufacturer: ULINE
.2 Model: 5 Step Narrow Aisle Ladder – H5068
.3 Size: 43"Lx30"Wx87"H
.4 Material: 16 Ga. Steel
.5 Finish: Powder-coated
.6 Accessories: None
- .30 SR1A – STORAGE RACK TYPE 1A
.1 Manufacturer: ULINE
.2 Model: Bulk Storage Rack – Steel Decking – H9911
.3 Size: 96"Lx24"Wx96"H
.4 Material: 22 Ga. Steel
.5 Finish: N/A
.6 Accessories: Add 2x Shelves to provide 4x total shelving levels
- .31 SR1B – STORAGE RACK TYPE 1B
.1 Manufacturer: ULINE
.2 Model: Bulk Storage Rack – Steel Decking – H9909
.3 Size: 72"Lx24"Wx96"H
.4 Material: 22 Ga. Steel

.5 Finish: N/A

.6 Accessories: Add 2x Shelves to provide 4x total shelving levels

.32 SR2A – STORAGE RACK TYPE 2A

.1 Manufacturer: ULINE

.2 Model: Bulk Storage Rack – Steel Decking – H9912

.3 Size: 96"Lx36"Wx96"H

.4 Material: 22 Ga. Steel

.5 Finish: N/A

.6 Accessories: None

.33 SR2B – STORAGE RACK TYPE 2B

.1 Manufacturer: ULINE

.2 Model: Bulk Storage Rack – Steel Decking – H9912

.3 Size: 96"Lx36"Wx96"H

.4 Material: 22 Ga. Steel

.5 Finish: N/A

.6 Accessories: Provide additional shelf, 3x total storage levels

.34 SR3 – STORAGE RACK TYPE 3

.1 Manufacturer: ULINE

.2 Model: Bulk Storage Rack – Particle Board – H2880

.3 Size: 96"Lx48"Wx96"H

.4 Material: Frame – 14 Ga. Steel, Shelves – Particle Board

.5 Finish: Frame – Powder-coated.

.6 Accessories: Provide 18ga. Galvanized steel sheets and fasten to top of particle board panel shelves.

.35 RB2 – RECYCLING BIN TYPE 2

.1 Manufacturer: ULINE

.2 Model: H-1045

.3 Size: 32 Gallon

.4 Material: Plastic

.5 Finish: Blue

.6 Accessories: Dollies and Lids

PART 3 - EXECUTION**3.1 INSTALLATION**

- .1 Install all items in accordance with manufacturer's instructions and requirements.
- .2 Provide required mounting preparations including but not limited to wood blocking and sheet metal backing over stud framing and fasteners suitable for wall substrate.
- .3 Lab spaces: Within lab spaces, seal all joint and seams between wall surface and wall-mounted accessory.
- .4 Owner's Furniture: Work with Owner's furniture vendor/ installer for requirements to coordinate with all required Work.

END OF SECTION

Structural Addendum

SA 001

Project Name: 145 Harry Walker Parkway, Newmarket – Warehouse Upgrades Conversion (PEWS)
Project Number: 22.478
Date of Issue: 2024 October 24
Prepared by: Kevin Li

Distribution:

Name	Company	Email
Leo Tang	David Carter Architects Inc.	tang@carterai.ca

Drawings Issued

Drawing Number	Rev.	Title	Date
S200	12	Overall First Floor Plan	2024 Oct 24
S202A	02	Roof Access Stair Plan & Section	2024 Oct 24

Description of Revisions

Drawing Number	
S200	<ul style="list-style-type: none">Add section mark 3/S202A showing the location of the part plan in the overall first floor plan.
S202A	<ul style="list-style-type: none">Add new part plan "3/S2002A – Mezzanine Electrical Room Plan" & "4/S202A – Electrical Room Knock-out Panel Section".

Reason for Addendum

- Coordinate with Architect and M&E

Regards,
Honeycomb Group Inc.

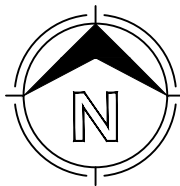


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Structural Consultant:



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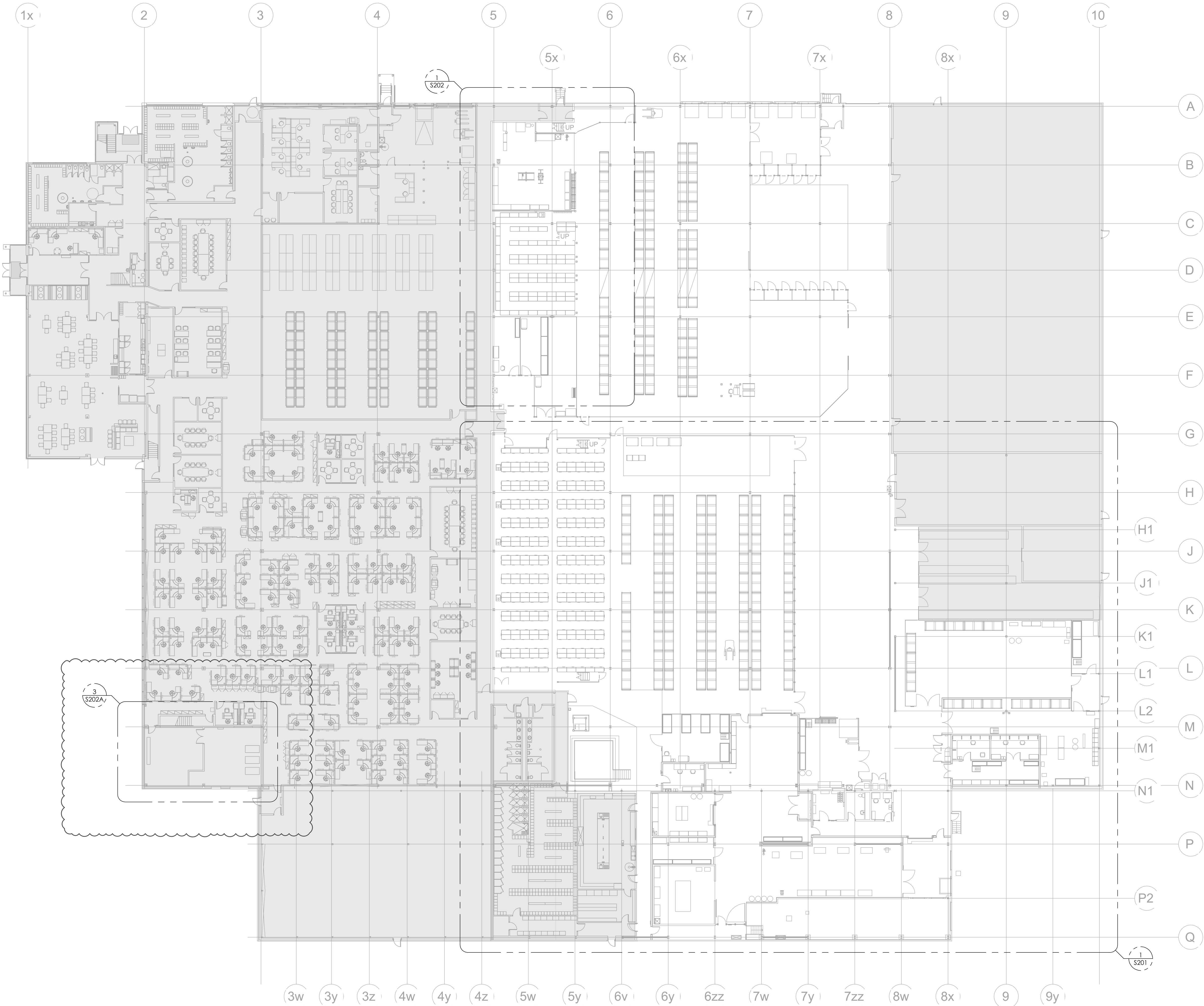
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11	2024.09.30	Issued for Tender
10	2024.07.18	Issued for Permit
9	2024.06.11	Issued for 100% CD
8	2024.05.16	Issued for 50% CD
7	2024.03.28	Issued for 100% DD R1
6	2024.02.27	Issued for 50% DD R1
5	2023.10.30	Issued for 100% DD
4	2023.10.18	Issued for 100% DD Costing
3	2023.10.12	Issued for Coordination
2	2023.08.15	Issued for 60% DD
1	2023.08.01	60% DD Costing
No.	Date	Revision

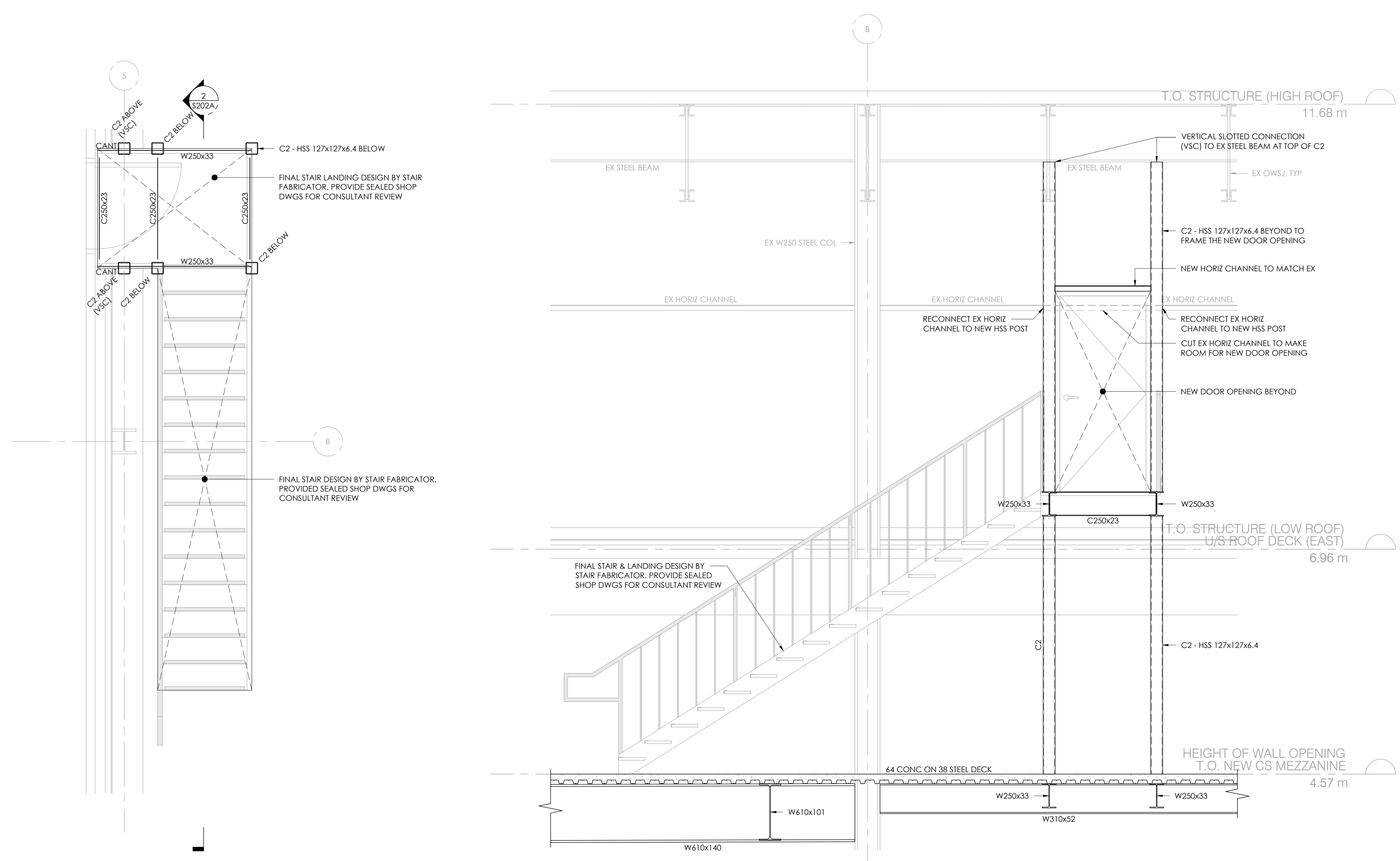
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Drawn by:	SS	Checked by:	WP

Project Name	145 Harry Walker Pkwy Newmarket, Ontario
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Drawing Title	OVERALL FIRST FLOOR PLAN
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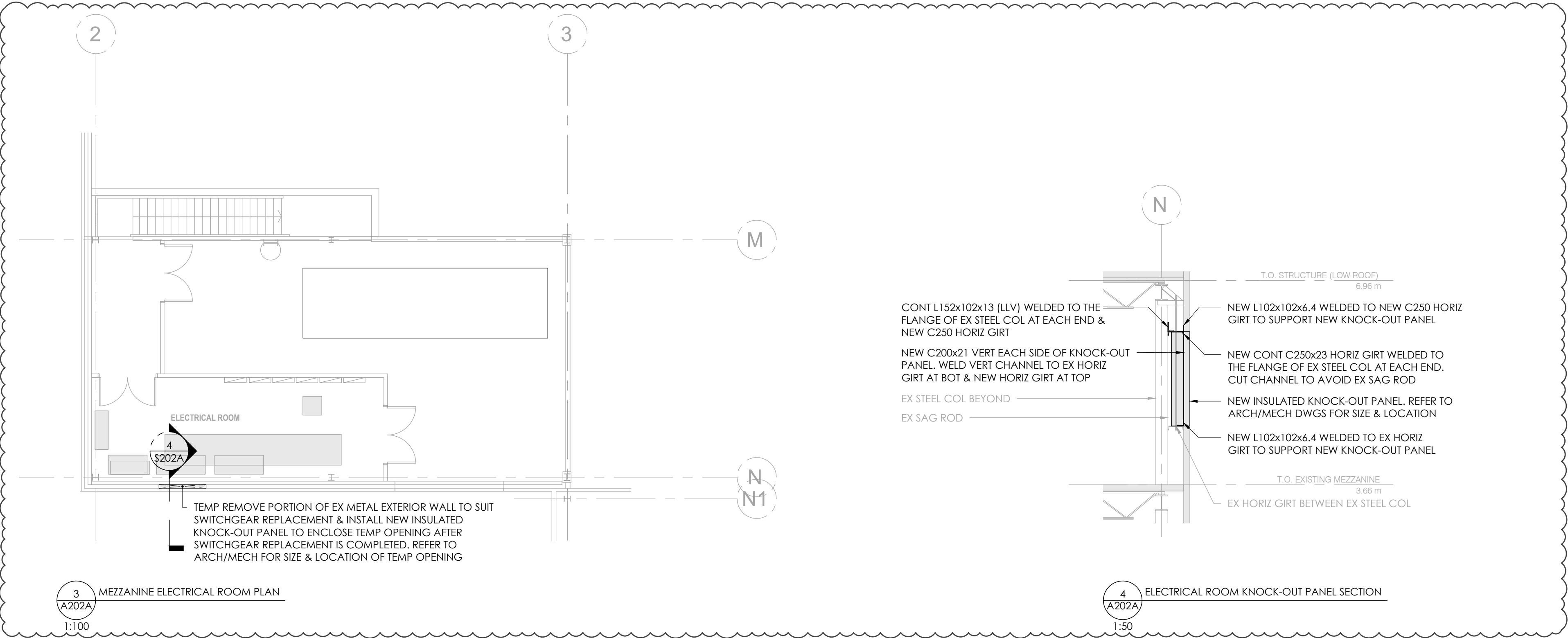
Project no.	22.478	Drawing no.	S200
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1 ROOF ACCESS STAIR PLAN
A202A
1:25

2 ROOF ACCESS STAIR SECTION
A202A
1:25



3 MEZZANINE ELECTRICAL ROOM PLAN
A202A
1:100

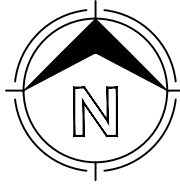
4 ELECTRICAL ROOM KNOCK-OUT PANEL SECTION
A202A
1:50

Seal:

Structural Consultant:



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2	2024.10.24	Issued for Structural Addendum SA-01
1	2024.09.30	Issued for Tender
No.	Date	Revision

Scale:	1:100	Designer:	KL
Drawn by:	SS	Checked by:	WP

Project Name
145 Harry Walker Pkwy
Newmarket, Ontario

Drawing Title
ROOF ACCESS STAIR PLAN & SECTION

Project no.	22.478	Drawing no.	S202A
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