

# 145 HARRY WALKER PARKWAY WAREHOUSE UPGRADES



PROJECT LOCATION:  
145 HARRY WALKER  
PARKWAY

**PRACTICE INFO:**  
**NAME:** DAVID CARTER ARCHITECTS INC.  
**CERTIFICATE OF PRACTICE:** NO. 5207  
**ADDRESS:** 688 RICHMOND ST. W, SUITE 303, TORONTO, ON, M6J 1S2  
**PHONE:** (416) 977-6300

**PROJECT NAME:** 145 HARRY WALKER PARKWAY WAREHOUSE UPGRADE  
**PROJECT ADDRESS:** 145 HARRY WALKER PARKWAY, NEWMARKET, ONTARIO  
**PROJECT TYPE:** INTERIOR ALTERATION/ RENOVATION  
**AREA OF WORK:** 5850SM

**PROJECT DESCRIPTION:**  
INTERIOR ALTERATIONS PROPOSED TO EXISTING YORK REGION OPERATIONS AND MAINTENANCE BUILDING WAREHOUSE TO MODIFY LAYOUT OF SECURED STORAGE AREAS, INSTALLATION OF NEW ADDITIONAL PALLET RACKING SYSTEMS, INSTALLATION OF NEW MULTI-LEVEL SHELVING SYSTEMS, RELOCATION OF EXISTING WORKSHOPS AND CONSTRUCTION OF A NEW MULTI-PURPOSE WORKSHOP. MODIFICATION AND UPGRADE TO THE BUILDING ELECTRICAL UTILITY SERVICE AND THE ADDITION OF NEW ELECTRIC VEHICLE CHARGING STATIONS IS ALSO PROPOSED.

**APPLICABLE PARTS:**  
• PART 3  
• PART 11

3 PROJECT DESCRIPTION  
A001 1 : 1

Item	Ontario Building Code Data Matrix Parts 3 or 9		Building Code Reference	
			References are to Division B unless noted [A] for Division A or [C] for Division C.	
1	Project Description:	<input type="checkbox"/> New <input checked="" type="checkbox"/> Alteration <input checked="" type="checkbox"/> Part 11	<input checked="" type="checkbox"/> Part 3	<input type="checkbox"/> Part 9
2	Major Occupancy(s): GROUP D, F2, F3	<input type="checkbox"/> Addition <input type="checkbox"/> Change of Use	1.1.2 [A] 11.1 to 11.4	1.1.2 [A] & 9.10.1.3.
3	Building Area (m²): Existing: 13,875 New: 0 Total: No Change to Existing		3.1.2.1.(1)	9.10.2.
4	Gross Area (m²): Existing: 14,410 New: 638 Total: 15,048		1.4.1.2 [A]	1.4.1.2 [A]
5	Number of Storeys: Above grade: 1 Storey Below grade: 0		1.4.1.2 [A], 3.2.1.1.	1.4.1.2 [A] & 9.10.4
6	Number of Streets/ Fire Fighter Access: 1 - No Change to Existing		3.2.2.10. & 3.2.5.	9.10.20.
7	Building Classification: 3.2.2.6.9		3.2.2.20. - .83	9.10.2.
8	Sprinkler System Proposed: <input type="checkbox"/> Entire building <input type="checkbox"/> Selected compartments <input type="checkbox"/> Selected floor areas <input type="checkbox"/> Basement <input type="checkbox"/> In lieu of roof rating...	<input checked="" type="checkbox"/> Entire building <input type="checkbox"/> Selected compartments <input type="checkbox"/> Selected floor areas <input type="checkbox"/> Basement <input type="checkbox"/> In lieu of roof rating...	3.2.2.20. - .83 3.2.1.5. 3.2.2.17. Index	9.10.8.2.  Index
9	Standpipe required:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.9.	N/A
10	Fire Alarm required:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.4.	9.10.18.
11	Water Service / Supply is Adequate:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.5.7.	N/A
12	High Building:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6.	N/A
13	Construction Restrictions: <input type="checkbox"/> Combustible permitted <input checked="" type="checkbox"/> Non-combustible required <input type="checkbox"/> Both		3.2.2.20. - .83	9.10.6.
	Actual Construction: <input type="checkbox"/> Combustible permitted <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both			
14	Mezzanine(s) Area (m²): OFFICE: 672 (EXISTING), WAREHOUSE: 116 (NEW)		3.2.1.1.(3) - (8)	9.10.4.1.
15	Occupant load based on: <input type="checkbox"/> m²/ person <input checked="" type="checkbox"/> design of building		3.1.17.	9.9.1.3.
16	No Proposed Change to Overall Existing Occupant Load, 280 persons.			
16	Barrier-free Design:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (explain)	3.8.	9.5.2.
17	Hazardous Substances:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.3.1.2. & 3.3.1.19.	9.10.1.3.(4)
18	Required Fire Resistance Rating (FRR)	Horizontal Assemblies FRR (hours) Listed Design no. or Description (SG-2) Floors: N/A Existing No Change Roof: N/A Existing No Change Mezzanine: 1 hour UL DESIGN D948 FRR of Supporting Members Listed Design no. or... Floors: N/A Existing No Change Roof: N/A Existing No Change Mezzanine: 1 hour UL DESIGN Z629	3.2.2.20. - .83 3.2.1.4.	9.10.8. 9.10.9.

2 OBC MATRIX  
A001 N.T.S.

DRAWING NO.	TITLE
A000 SERIES: GENERAL	
A001	PROJECT INFORMATION & STATISTICS
A002	OBC DIAGRAMS
A003	ASSEMBLIES SCHEDULE
A004	ROOM FINISH SCHEDULE
A005	DOOR SCHEDULE
A006	EQUIPMENT SCHEDULE I
A006b	EQUIPMENT SCHEDULE II
A007	SHELVING STORAGE UNIT TYPES
A008a	PALLET RACK TYPES, TYPICAL PLANS, SECTIONS, ELEVATIONS
A008b	PALLET RACK TYPE PR3
A009	SIGNAGE SCHEDULE
A010	PROPOSED SIGNAGE PLANS
A011	PROPOSED PHASING PLAN
A050 SERIES: SITE WORKS	
A051	PROPOSED SITE PLAN
A100 SERIES: DEMOLITION	
A101	DEMOLITION PLAN-OVERALL FIRST FLOOR
A200 SERIES: PROPOSED PLANS	
A201	PROPOSED FIRST FLOOR OVERALL PLAN
A202	MEZZANINE ELECTRICAL ROOM PLAN
A203	PROPOSED ROOF PLAN
A211	CORPORATE SERVICES OVERALL PLAN
A212	CS-FMO WORKSHOP PLANS, STORAGE, MEZZANINE PLAN, MULTI-LEVEL SHELVING SYSTEM PLANS
A213	CS-FMO MEZZANINE DETAIL PLANS
A221	PUBLIC WORKS OVERALL PROPOSED PLAN
A222	PUBLIC WORKS PROPOSED REFLECTED CEILING PLAN
A223	PW-WATER RESOURCES, CCEM, BSCI ENLARGED PLAN
A224	PW-WASTE MANAGEMENT, CMS OFFICE, SCADA ENLARGED PLAN
A225	PW-FORESTRY ENLARGED PLAN
A226	PW-CPD ENLARGED PLAN
A227	PW-CMS WORKSHOP PLAN
A228	PW-CMS STAGING, INSTRUMENTATION, TOOL STORAGE, WELDING ENLARGED PLANS
A229	PROPOSED PLANS-MULTI-LEVEL SHELVING SYSTEM-PUBLIC WORKS
A230	PW TRAINING AREA ENLARGED PLAN
A300 SERIES: SECTIONS & ELEVATIONS	
A301	ELEVATIONS
A302	MULTI-LEVEL SHELVING SYSTEM SECTIONS AND ELEVATIONS
A311	CS-FMO WORKSHOP SECTIONS
A312	CS-FMO WORKSHOP AND MEZZANINE ELEVATIONS
A313	CS-FMO WORKSHOP AND MEZZANINE DETAIL SECTIONS
A314	CS-FMO MEZZANINE STAIR SECTION
A321	PW-CMS, BSCI SECTIONS
A322	PW-CMS WORKSHOP INTERIOR ELEVATIONS I
A323	PW-CMS WORKSHOP INTERIOR ELEVATIONS II
A324	PW-CMS INSTRUMENTATION INTERIOR ELEVATIONS
A325	PW-SCADA SECTIONS AND ELEVATIONS
A326	PW-FORESTRY, LAUNDRY SECTIONS AND ELEVATIONS
A331	PW-SCADA WALL SECTIONS
A332	PW LAUNDRY, WR CLOSET WALL SECTIONS
A341	PW-CMS WORKSHOP WALL SECTIONS
A342	PW-CMS WORKSHOP WALL SECTIONS II
A343	PW-CMS WORKSHOP WALL SECTIONS III
A344	PW-CMS WORKSHOP WALL SECTIONS IV
A400 SERIES: DETAILS	
A401	INTERIOR PARTITION DETAILS
A402	ROOF DETAILS
A403	ROOF ACCESS STAIR DETAILS
A411	PW-CMS DETAILS
A421	PW TRAINING TOWER DETAILS
A422	PW-SCADA DETAILS

1 DRAWING LIST  
A001 N.T.S.

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS WITH SITE CONDITIONS, PRIOR TO THE WORK AND NOTIFY THE ARCHITECT OF DIFFERENCES. AWAIT CLARIFICATION BEFORE CONTINUING.

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



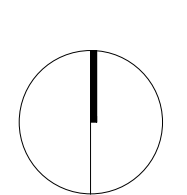
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE  
UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



**PROJECT INFORMATION &  
STATISTICS**

ENTERED: L.T.

CHECKED: D.C.

DATE: JAN 2023

PROJECT NO.

DRAWING NO.

A001

22-136

## ABBREVIATIONS

ACT ACOUSTIC CEILING TILE  
AFF ABOVE FINISH FLOOR  
AL ALUMINUM  
BLK BLOCK  
CB CATCH BASIN  
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  
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  
US UNDERSIDE  
W/ WITH  
W/C WATER CLOSET

## DRAWING SYMBOL

NORTH ARROW

GRID DESIGNATION

KEYNOTE

TOP OF LEVEL HEIGHT ELEVATION

UNDERSIDE OF LEVEL HEIGHT  
ELEVATION

ROOM TAG

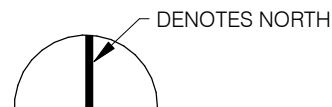
DOOR TAG

WINDOW TAG

FINISH TAG

FINISH FLOOR ELEVATION

CEILING HEIGHT ELEVATION



0

0

T.O. LEVEL  
+0.00m

U/S  
+0.00m

ROOM [0000]  
ROOM NAME  
ROOM NUMBER

VIEW  
DRAWING DETAIL  
DRAWING SHEET  
CUT LINE (FOR SECTIONS)

W000

D000

W000

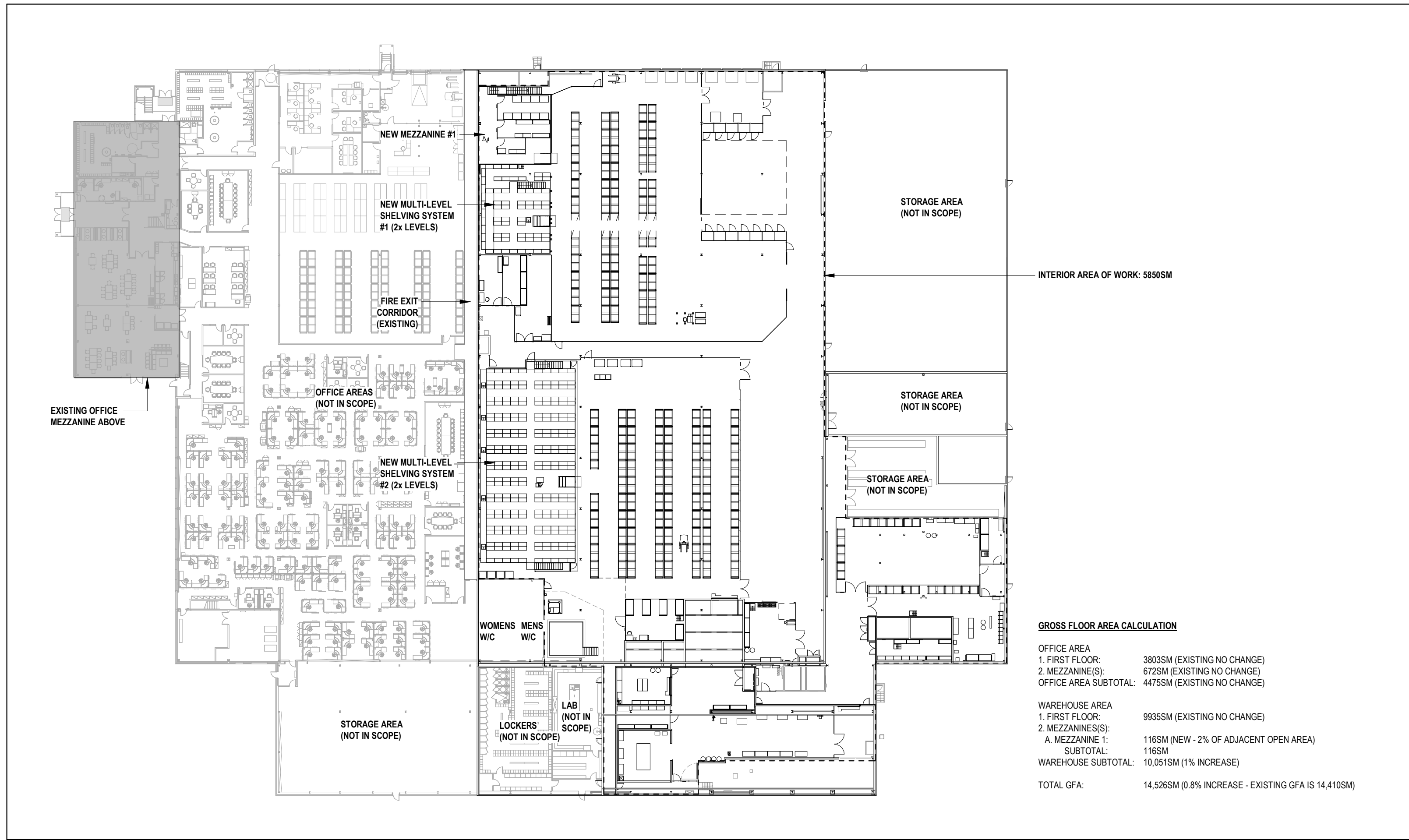
00

FFE+0.00

+0.00m

4 ABBREVIATIONS & DRAWING SYMBOLS  
A001 N.T.S.





4 OBC DIAGRAM-GFA CALCULATION  
A002 1 : 500

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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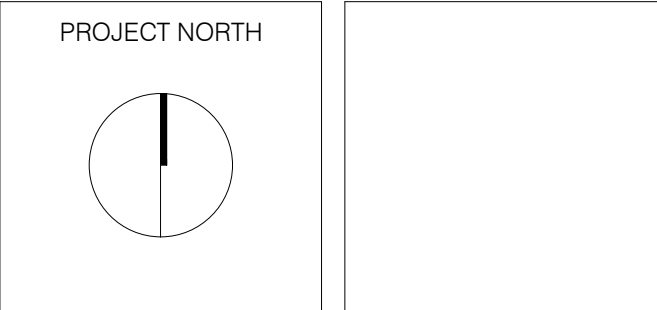
CLIENT:  
**York Region**

ARCHITECT:  
**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:  
**QUASAR**  
CONSULTING GROUP

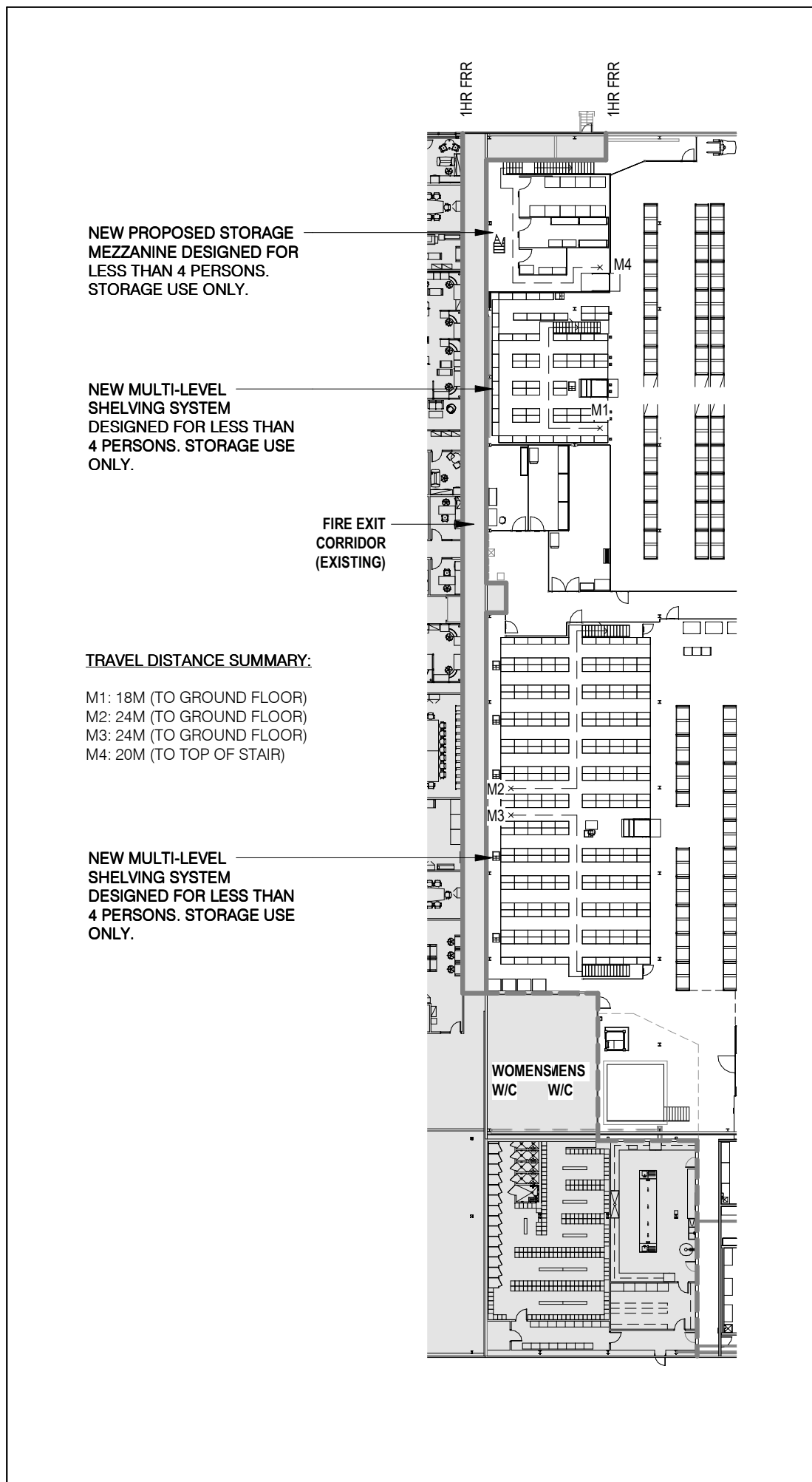
STRUCTURAL ENGINEERING:  
**HONEYCOMB**

**HWP WAREHOUSE**  
UPGRADE  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

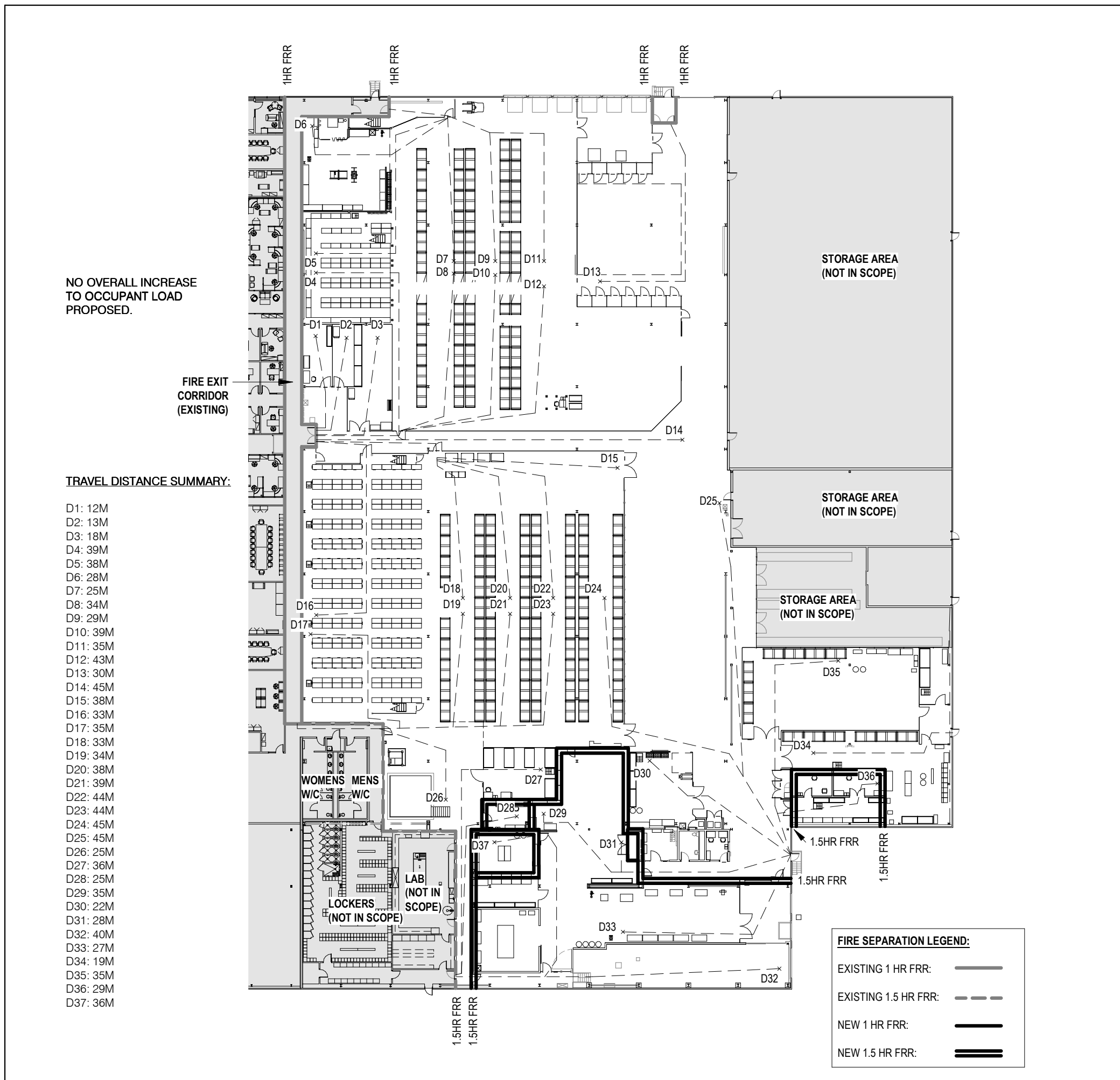


OBC DIAGRAMS

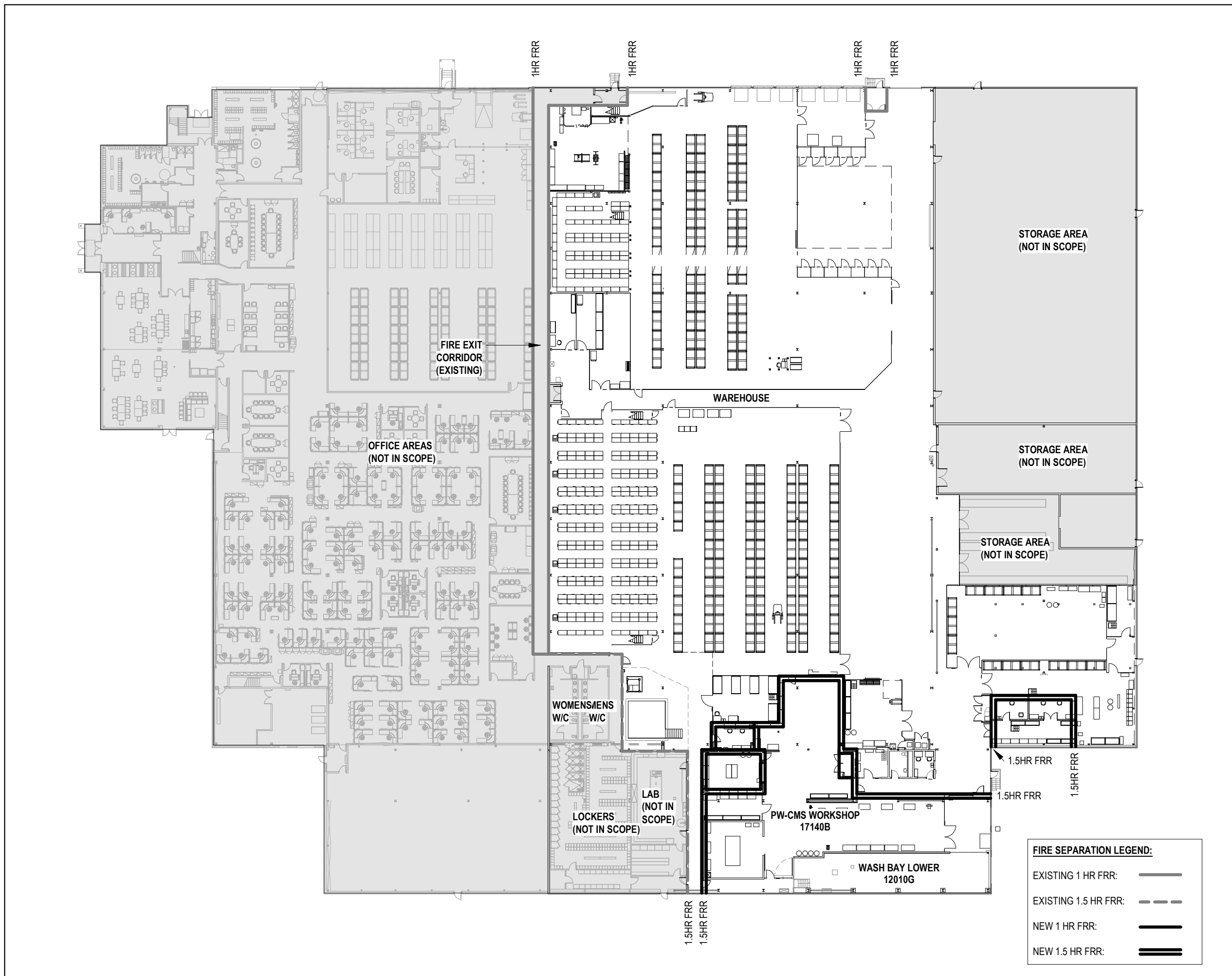
ENTERED: LT.	DRAWING NO.
CHECKED: D.C.	A002
DATE: SEP.2024	
PROJECT NO.	
22-136	



3 OBC DIAGRAM-TRAVEL DISTANCE-MEZZANINE  
A002 1 : 500



2 OBC DIAGRAM-TRAVEL DISTANCE-FIRST FLOOR  
A002 1 : 500



1 OBC DIAGRAM-FIRE SEPARATIONS  
A002 1 : 500



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NO.	DATE	ISSUED

REVISIONS

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



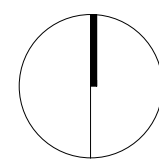
STRUCTURAL ENGINEERING:



**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

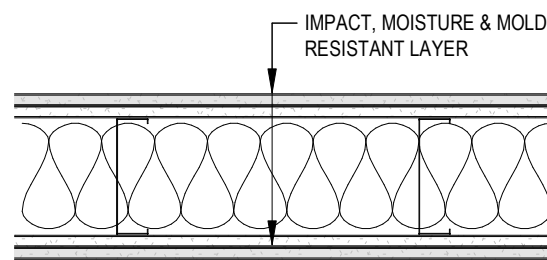
#### WALL TYPES

(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.

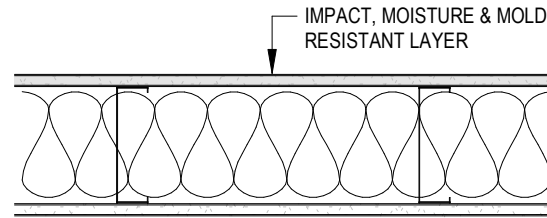


(W2)

##### 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. @ 400O.C. MAX
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X.

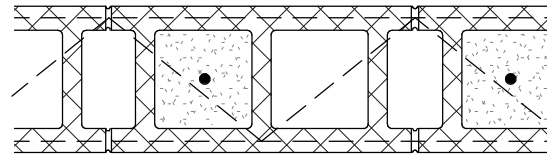


(W3)

##### 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.

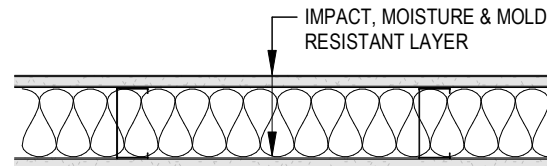


(W4)

##### 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
- FILL STUD CAVITIES W/ MINERAL WOOL INSULATION.
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT

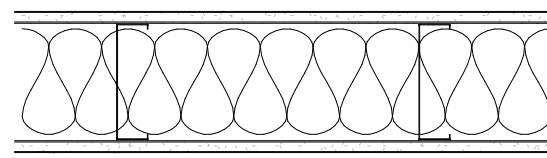


(W5)

##### 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. @ 400O.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.

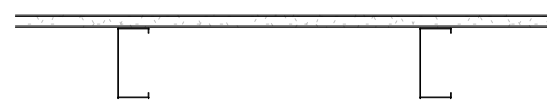


#### FURRING TYPES

(F1)

##### FURRING TYPE 1

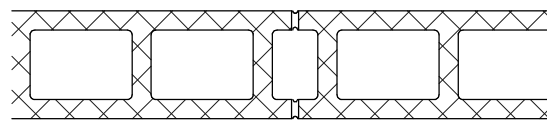
- 1x LAYER OF 16MM GYPSUM WALL BOARD, TYPE X, IMPACT-RESISTANT, MOISTURE & MOLD RESISTANT
- 92MM GALVANIZED METAL STUDS, 20GA. @ 400MM O.C. MAX.



(F2)

##### FURRING TYPE 2

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



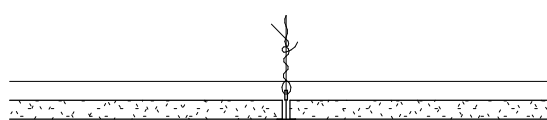
#### CEILING TYPES

(C1)

##### CEILING TYPE 1 - ACT

NRC 1XA

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

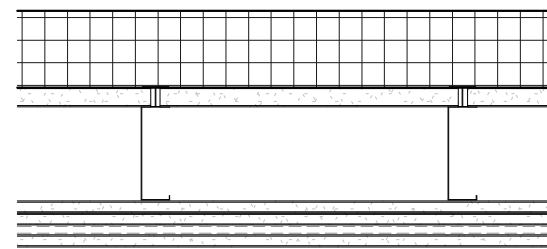


(C2)

##### 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.



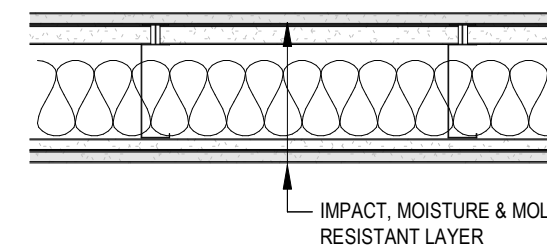
#### SHAFTWALL TYPES

(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).

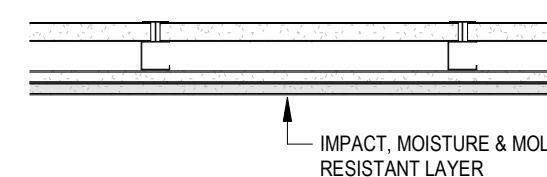


(S2)

##### 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).

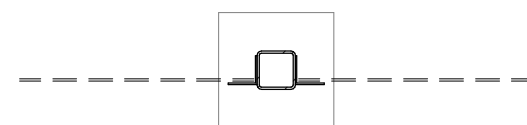


#### PARTITION TYPES

(P1)

##### PARTITION TYPE 1

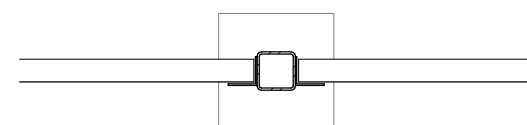
- FREESTANDING WIRE MESH PARTITION SYSTEM BY COGAN.
- 3M[10FT] HIGH



(P2)

##### PARTITION TYPE 2

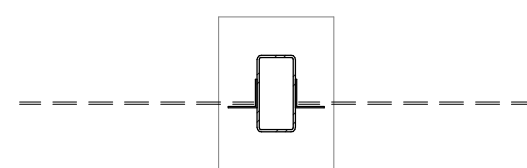
- FREESTANDING SHEET METAL PARTITION SYSTEM BY COGAN.
- 3M[10FT] HIGH



(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: Z02B  
MATERIAL: INTUMESCENT PAINT.





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ARCHITECT:  
**CARTER ΛI**  
DAVID CARTER ARCHITECTS INC.

STRUCTURAL ENGINEERING:

 HONEYCOMB

PROJECT NORTH

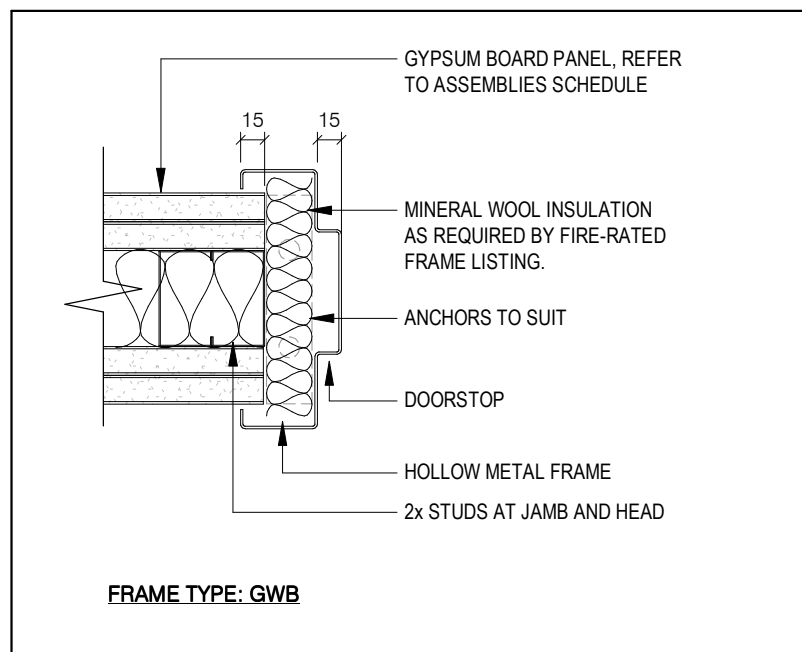
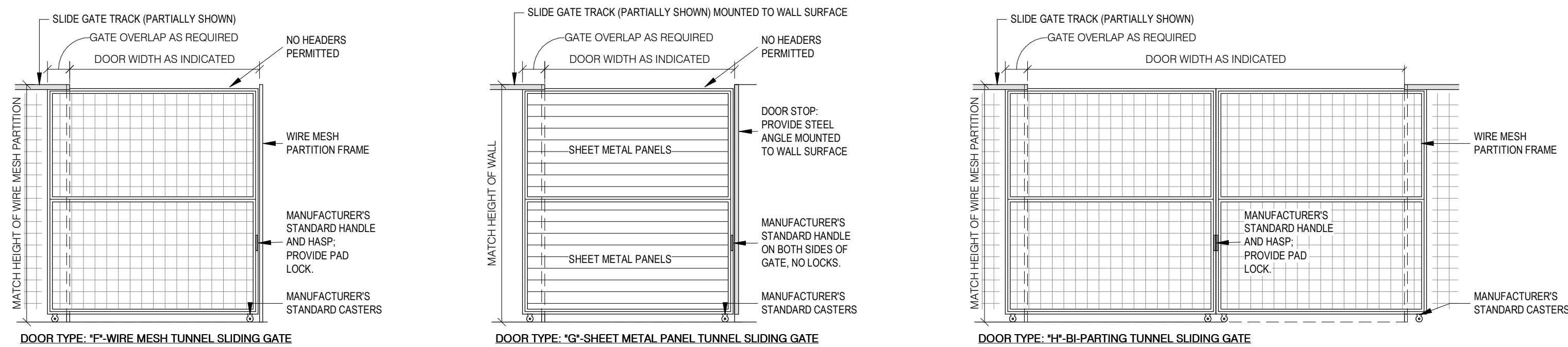
## ROOM FINISH SCHEDULE

ENTERED: L.T.	DRAWING NO.  <b>A004</b>
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	

A004

22-136



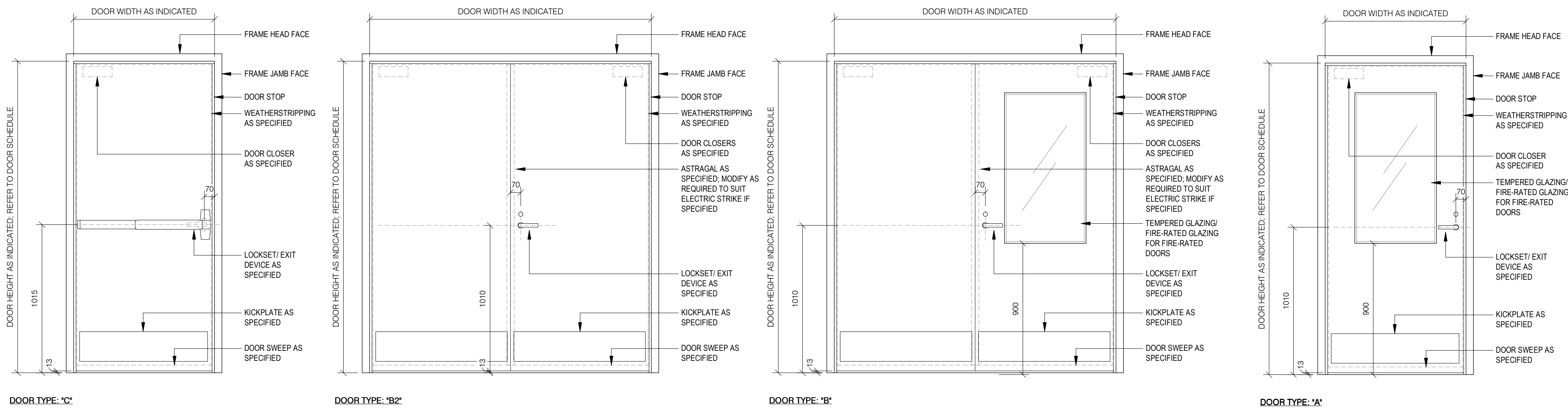
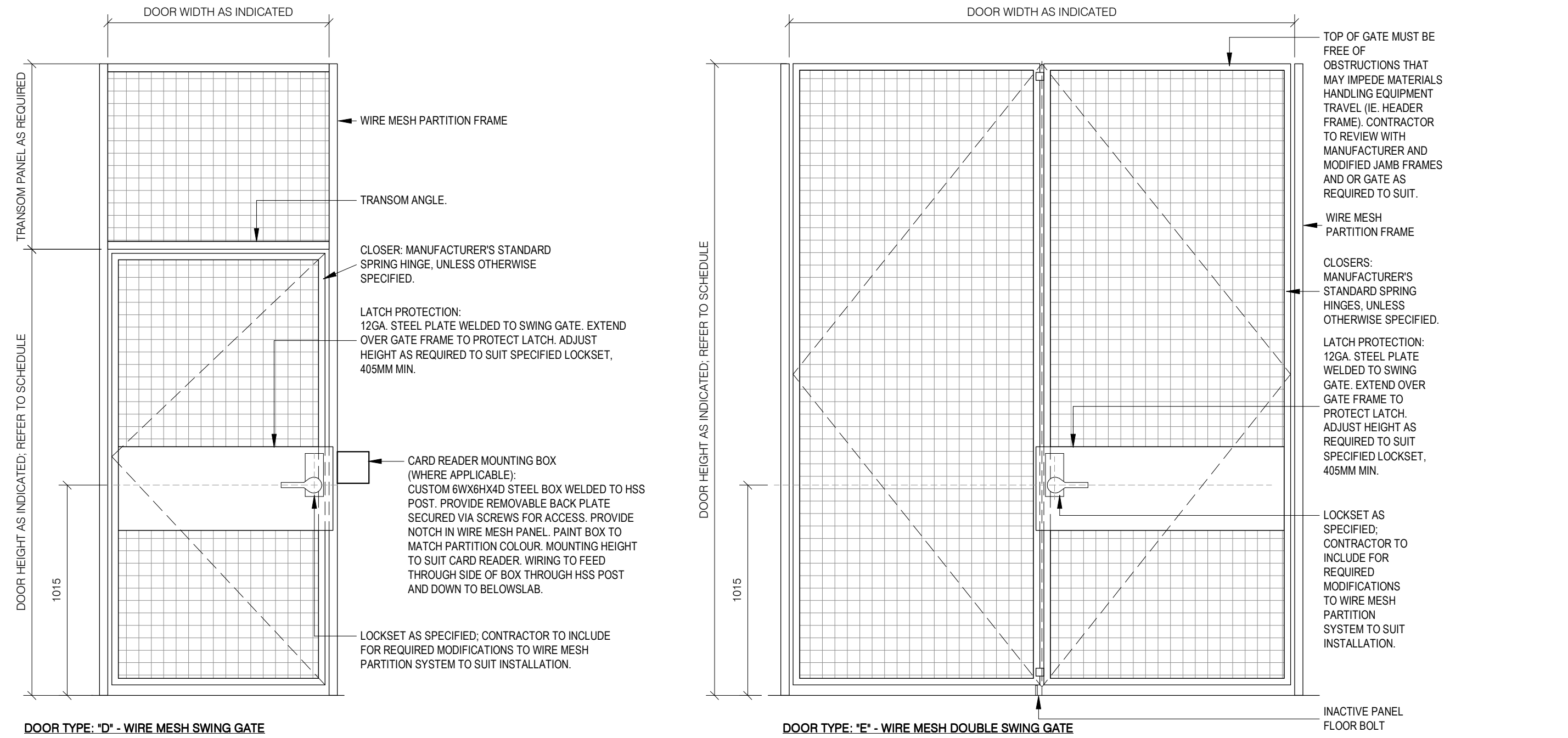


2  
A005  
DOOR FRAME TYPE GWB  
1 : 5

#### DOOR SCHEDULE

NO.	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR & FRAME FIRE RATING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	COMMENTS
D101	D	MESH		1065	2135	10					
D102	E	MESH		2440	3050	10					
D103	E	MESH		2440	3050	10					
D104	D	MESH		1065	2135	10					
D105	D	MESH		1065	2135	10					
D106	D	MESH		1065	2135	10					
D107	D	MESH		1065	2135	10					
D108	D	MESH		1065	2135	10					
D109	D	MESH		1065	2135	10					
D110	D	MESH		1065	2135	10					
D111	D	MESH		1065	2135	10					
D112	D	MESH		1065	2135	10					
D113	D	MESH		1065	2135	10					
D114	D	MESH		1065	2135	10					
D115	D	MESH		1065	2135	10					
D116	F	MESH		2390	3050	10					
D117	D	MESH		1065	2135	10					
D118	D	MESH		1065	2135	10					
D119	E	MESH		2425	2440	10					
D120	D	MESH		1220	2440	10					
D121	D	MESH		1220	2440	10					
D125	D	MESH		1120	2440	10					
D126	D	MESH		1065	2440	10					
D127	D	MESH		1065	2440	10					
D128	C	HM	PT2	915	2080	45			HM	PT2	
D130	H	MESH		3660	3050	10					
D201	D	MESH		1065	2135	10					
D202	D	MESH		1065	2135	10					
D203	D	MESH		915	2135	10					
D204	D	MESH		1065	2135	10					
D205	E	MESH		3050	3050	10					
D206	E	MESH		2745	3050	10					
D207	D	MESH		915	2135	10					
D208	A	HM	PT2	1065	2135	45	1.5HR		HM	PT2	MAGLOCK REQ. SEE HARDWARE SCHEDULE
D209	A	HM	PT2	965	2135	45	1.5HR		HM	PT2	
D210	D	MESH		1525	2440	10					
D211	A	HM	PT2	965	2135	45	1.5HR		HM	PT2	
D212	F	MESH		2440	3050	10					PROVIDE PAD LOCK
D213	E	MESH		2745	3050	10					
D214	C	HM	PT2	915	2135	45			HM	PT2	
D215	B	HM	PT2	1830	2135	45	0.75HR		HM	PT2	
D216	E	MESH		3050	3050	10					
D217	E	MESH		2745	3050	10					
D218	D	MESH		1220	2135	10					
D219	D	MESH		1220	2135	10					
D220	C	HM	PT2	915	2135	45			HM	PT2	
D221	D	MESH		1220	2135	10					
D223	B	HM	PT2	1830	2135	45	0.75HR		HM	PT2	
D224	A	HM	PT2	965	2135	45			HM	PT2	
D225	B	HM	PT2	1830	2135	45	0.75HR		HM	PT2	
D226	HM	PT2		915	2135	45			HM	PT2	PAINT EXISTING DOOR TO REMAIN
D227	D	MESH		1220	2135	10					
D228	A	HM	PT2	965	2135	45	1.5HR		HM	PT2	
D229	A	HM	PT2	965	2135	45			HM	PT2	
D230	E	MESH		3050	3050	10					
D231	B2	HM	PT2	2440	2440	45			HM	PT2	
D232	A	HM	PT2	965	2135	45			HM	PT2	
D233	D	MESH		1220	2120	10					
D234	G	MESH		2540	3050	10					
D235	D	MESH		1065	2135	10					
D236	A	HM	PT2	965	2135	45	1.5HR		HM	PT2	
D237	B2	HM	PT2	2135	2135	45			HM	PT2	
D238	C	HM	PT2	1065	2135	45			HM	PT2	

- GENERAL NOTES:**
1. SITE VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
  2. REFER TO SPECIFICATIONS.
  3. ALL CYLINDERS TO BE KEYED TO BUILDING STANDARD, CONTRACTOR TO COORDINATE W/ OWNER SECURITY.
  4. DOORS AND FRAMES TO BE REINFORCED FOR DOOR CLOSERS AS REQUIRED.
  5. HM FRAMES: ONE-PIECE WELDED THROAT SIZED TO SUIT WALL THICKNESSES.
  6. DOOR AND FRAME CONSTRUCTION, INSTALLATION AND DOOR HARDWARE INSTALLATION TO COMPLY WITH NFPA 80.
  7. FOR ALL DOORS SPECIFIED WITH ELECTRIC LOCKING DEVICES: COORDINATE W/ ELECTRICAL REQUIREMENTS FOR WIRING, DOOR CONTACTS, AUDIBLE ALARMS, CARD READERS ETC.
  8. COORDINATE W/ OWNER FOR FOR DOOR SIGNAGE REQUIREMENTS.
  9. CONTRACTOR TO COORDINATE W/ OWNER'S FOR SECURITY VENDOR REQUIREMENTS.



1  
A005  
DOOR ELEVATIONS  
1 : 20

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:



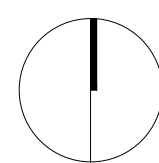
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



DOOR SCHEDULE

ENTERED: L.T.  
CHECKED: D.C.  
DATE: SEP.2024  
PROJECT NO.

DRAWING NO.

A005

22-136



EQUIPMENT SCHEDULE I															
ROOM NO.	NAME	TYPE	COUNT	DESCRIPTION	PRODUCT	NEW/ EXISTING	SUPPLIED BY	INSTALLED BY	MOUNT	SIZE	POWER	DATA	PLUMBING	VENTILATION	NOTES
12010B															
12010B	LOADING DOCK NORTH	EQ5	1	PALLET WRAP TURNTABLE	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	N/A	Y-SEE ELEC.	N	N		LOAD W/ FORKLIFT
12010B	LOADING DOCK NORTH	EQ6	1	PALLET FLOOR SCALE	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	N/A	Y-SEE ELEC.	N	N	N	LOAD W/ FORKLIFT
12010J															
12010J	LAUNDRY CLOSET	EQ10	1	WASHING MACHINE	MAYTAG. MWSP886GW	NEW	CONTRACTOR	CONTRACTOR	FLOOR		Y-SEE ELEC.	N			
12010J	LAUNDRY CLOSET	EQ11	1	DRYER	MAYTAG. YMEDP886GW	NEW	CONTRACTOR	CONTRACTOR	FLOOR		Y-SEE ELEC.	N			
17000															
17000	CS-FMO	CT2	2	CART W/ SIDERAILS	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	60"D X 30"W	N	N		N	
17000	CS-FMO	MH2	1	ELECTRIC REACH TRUCK	SEE SPECIFICATIONS	EXISTING	N/A	N/A			Y-SEE ELEC FOR RELOCATION OF EXISTING CHARGER			N	
17000	CS-FMO	MR1	5	VERTICAL BAR RACK	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	N/A	N	N	N	N	
17000A															
17000A	CS-FMO WORKSHOP	BN1	4	WOOD WORKBENCH	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N		N	
17000A	CS-FMO WORKSHOP	BN2	1	POWDER-COATED STEEL WORKBENCH	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	36"D X 96"H	N	N	N	N	
17000A	CS-FMO WORKSHOP	BN3	1	WELDING BENCH	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	48"D X 48"W	N	N	N	N	
17000A	CS-FMO WORKSHOP	EQ1	1	WELDER	N/A	EXISTING	OWNER	OWNER	N/A	N/A	Y-SEE ELEC.	N	N		Y-SEE MECH.
17000A	CS-FMO WORKSHOP	EQ2	1	TABLESAW	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N	N	N	
17000A	CS-FMO WORKSHOP	EQ3	1	MITRESAW	N/A	EXISTING	OWNER	CONTRACTOR	N/A (PORTABLE)	N/A	Y-SEE ELEC.	N	N	N	
17000A	CS-FMO WORKSHOP	EQ4	1	BANDSAW	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	Y-SEE ELEC.	N	N	N	
17000A	CS-FMO WORKSHOP	FSC1	3	FIRE SAFETY CABINET	SEE SPECIFICATIONS	EXISTING	OWNER	CONTRACTOR	N/A	N/A	N	N	N	N	
17000A	CS-FMO WORKSHOP	PB1	10	PEGBOARD	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL	N/A	N	N	N	N	
17000A	CS-FMO WORKSHOP	SS3A	2	REFER TO A007	REFER TO A007	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
17000A	CS-FMO WORKSHOP	WX1	1	PAPER TOWEL DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17000A	CS-FMO WORKSHOP	WX2	1	SOAP DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17000B															
17000B	CS-FMO SHELVING STORAGE	RL1	1	ROLLING LADDER - 3 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17000B	CS-FMO SHELVING STORAGE	SS1A	4	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
17000B	CS-FMO SHELVING STORAGE	SS1B	63	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
17000B	CS-FMO SHELVING STORAGE	SS3A	8	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
17000B	CS-FMO SHELVING STORAGE	SS3B	4	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
17000C															
17000C	CS-FMO SHIPPING	FN1	1	SHIPPING/ RECEIVING DESK	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	30"D X 34.5"W	Y-SEE ELEC.	N	N	N	
17000C	CS-FMO SHIPPING	FN2	1	TASK CHAIR	N/A	NEW	OWNER	OWNER	N/A	N/A	N	N	N	N	
17000C	CS-FMO SHIPPING	GB1	1	GARBAGE BIN, 7GAL.	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17000C	CS-FMO SHIPPING	RB1	1	RECYCLING BIN, 7GAL.	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17010															
17010	CS-AUDIO VISUAL	BN7D	1	WORKBENCH	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	30"D X 60"W	N	N	N	N	
17010	CS-AUDIO VISUAL	CT2	1	CART W/ SIDERAILS	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	60"D X 30"W	N	N	N	N	
17010	CS-AUDIO VISUAL	FN2	1	TASK CHAIR	N/A	NEW	OWNER	OWNER	N/A	N/A	N	N	N	N	
17010	CS-AUDIO VISUAL	SR1A	1	SHELVING RACK - 4H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 101"W X 96"H	N	N	N	N	
17020															
17020	CS-FACILITIES SERVICES	CT1	1	CART	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	48"D X 30"W	N	N	N	N	
17020	CS-FACILITIES SERVICES	SR2B	3	SHELVING RACK - 3H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	36"D X 101"W X 96"H	N	N	N	N	
17030															
17030	CS-CAPITAL DELIVERY	CT1	1	CART	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	48"D X 30"W	N	N	N	N	
17030	CS-CAPITAL DELIVERY	CT3	1	ROLLING PEGBOARD	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	24"D X 51"W	N	N	N	N	
17030	CS-CAPITAL DELIVERY	DS1	1	FLAT ARCH E DRAWING STORAGE CABINETS (STACK 2X UNITS HIGH)	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	41.5"D X 53.5"W	N	N	N	N	
17030	CS-CAPITAL DELIVERY	SS2A	1	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	24"D X 48"W X 96"H	N	N	N	N	
17060															
17060	PW-SHELVING STORAGE	FN2	1	TASK CHAIR	N/A	NEW	OWNER	OWNER						N	
17060	PW-SHELVING STORAGE	FN3	1	SITE/ STAND DESK	N/A	NEW	OWNER	CONTRACTOR			Y-SEE ELEC.				
17060	PW-SHELVING STORAGE	RL1	6	ROLLING LADDER - 3 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17060	PW-SHELVING STORAGE	SS2A	92	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17060	PW-SHELVING STORAGE	SS2B	69	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17060	PW-SHELVING STORAGE	SS2C	30	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17060	PW-SHELVING STORAGE	SS2D	10	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17060	PW-SHELVING STORAGE	SS3A	39	REFER TO A007	REFER TO A007	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
17070															
17070	PW RACKING STORAGE	MH2	1	ELECTRIC REACH TRUCK	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	Y-SEE ELEC FOR CHARGING EQUIPMENT	N		N	
17110															
17110	PW CCEM	CT1	1	CART	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR		48"D X 30"W				N	
17110	PW CCEM	FN2	1	TASK CHAIR	N/A	NEW	OWNER	OWNER						N	
17110	PW CCEM	FN3	1	SIT/STAND DESK	N/A	NEW	OWNER	CONTRACTOR			Y-SEE ELEC.				
17110	PW CCEM	GB1	1	GARBAGE BIN, 7GAL.	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17110	PW CCEM	RB1	1	RECYCLING BIN, 7GAL.	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17110	PW CCEM	RL2	1	ROLLING LADDER - 5 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	43"D X 30"W	N	N	N	N	
17110	PW CCEM	SR3	5	SHELVING RACK - 3H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	48"D X 101"W X 96"H	N	N	N	N	
17120															
17120	PW BSCI OFFICE	BN7C	1	WORKBENCH W/ PEGBOARD	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	30"D X 60"W	N	N	N	N	
17120	PW BSCI OFFICE	BN9	1	WORKBENCH	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N	N	N	
17120	PW BSCI OFFICE	EQ9	1	UNDERCOUNTER FRIDGE	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	Y-SEE ELEC.	N	N	N	
17120	PW BSCI OFFICE	FN2	2	TASK CHAIR	N/A	NEW	OWNER	OWNER						N	
17120	PW BSCI OFFICE	GB1	1	GARBAGE BIN, 7GAL.	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17120	PW BSCI OFFICE	RB1	1	RECYCLING BIN, 7GAL.	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17120	PW BSCI OFFICE	SS3A	2	REFER TO A007	REFER TO A007	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
17130A															
17130A	PW WATER RESOURCES	BN6	1	EXISTING WORKBENCH	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N	N	N	
17130A	PW WATER RESOURCES	BN7A	2	WORKBENCH	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	30"D X 60"W	N	N	N	N	
17130A	PW WATER RESOURCES	GB2	1	GARBAGE BIN, 32GAL. C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17130A	PW WATER RESOURCES	MH1	1	PALLET TRUCK	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR						N	
17130A	PW WATER RESOURCES	MR1	3	VERTICAL BAR RACK	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	N/A	N	N	N	N	
17130A	PW WATER RESOURCES	RB2	1	RECYCLING BIN, 32GAL. C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17130A	PW WATER RESOURCES	RL2	1	ROLLING LADDER - 5 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	43"D X 30"W				N	
17130A	PW WATER RESOURCES	SR4	3	EXISTING SHELVING RACK	SEE SPECIFICATIONS	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N	N	N	
17130A	PW WATER RESOURCES	WX1	1	PAPER TOWEL DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17130A	PW WATER RESOURCES	WX2	1	SOAP DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						

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NO.	DATE	ISSUED

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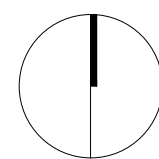
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



EQUIPMENT SCHEDULE I

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

DRAWING NO.

A006a



EQUIPMENT SCHEDULE II															
ROOM NO.	NAME	TYPE	COUNT	DESCRIPTION	PRODUCT	NEW/ EXISTING	SUPPLIED BY	INSTALLED BY	MOUNT	SIZE	POWER	DATA	PLUMBING	VENTILATION	NOTES
17140A															
17140A	PW-CMS STAGING	SR6	3	EXISTING SHELVING RACKS		EXISTING	OWNER	CONTRACTOR	FLOOR						
17140B															
17140B	PW-CMS WORKSHOP	BN8B	5	MOBILE STEEL WORKBENCH W/ WOOD TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140B	PW-CMS WORKSHOP	EQ4	1	BANDSAW	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR					N	
17140B	PW-CMS WORKSHOP	EO13	1	MILLING MACHINE		EXISTING	OWNER	CONTRACTOR	FLOOR			Y-SEE ELEC.			
17140B	PW-CMS WORKSHOP	EO14	1	LATHE		EXISTING	OWNER	CONTRACTOR	FLOOR			Y-SEE ELEC.			
17140B	PW-CMS WORKSHOP	EO15	1	BRAKE MACHINE		EXISTING	OWNER	CONTRACTOR	FLOOR			Y-SEE ELEC.			
17140B	PW-CMS WORKSHOP	EO16	1	SHEAR MACHINE		EXISTING	OWNER	CONTRACTOR	FLOOR			Y-SEE ELEC.			
17140B	PW-CMS WORKSHOP	EO17	1	SHOP PRESS		EXISTING	OWNER	CONTRACTOR	FLOOR			Y-SEE ELEC.			
17140B	PW-CMS WORKSHOP	EO18	1	PARTS WASHER		EXISTING	OWNER	CONTRACTOR	FLOOR			Y-SEE ELEC.			
17140B	PW-CMS WORKSHOP	GB2	2	GARBAGE BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR					VERIFY WITH OWNER		
17140B	PW-CMS WORKSHOP	RB2	2	RECYCLING BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140B	PW-CMS WORKSHOP	SR1A	2	SHELVING RACK - 4H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 101"W X 96"H	N	N	N	N	
17140D															
17140D	PW-CMS WELDING AREA	BN10A	2	STEEL WORKBENCH W/ PAINTED STEEL TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	<varies>	<varies>	<varies>	<varies>	<varies>	N	
17140D	PW-CMS WELDING AREA	BN10B	1	MOBILE STEEL WORKBENCH W/ PAINTED STEEL TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR						N	
17140D	PW-CMS WELDING AREA	BN12	1	WELDING TABLE	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	2MX4M					
17140D	PW-CMS WELDING AREA	EQ21	1	DISC SANDER		NEW	CONTRACTOR	CONTRACTOR	FIXED OR MOBILE						
17140D	PW-CMS WELDING AREA	EQ22	1	BELT SANDER		NEW	CONTRACTOR	CONTRACTOR	FIXED OR MOBILE						
17140D	PW-CMS WELDING AREA	WX1	1	PAPER TOWEL DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17140D	PW-CMS WELDING AREA	WX2	1	SOAP DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17140E															
17140E	PW-CMS STAGING ADMIN	BN7B	2	STEEL WORKBENCH W/ WOOD TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140E	PW-CMS STAGING ADMIN	SR6	2	EXISTING SHELVING RACKS		EXISTING	OWNER	CONTRACTOR	FLOOR						
17140F															
17140F	PW-CMS INSTRUMENTATION	BN4	1	STAINLESS STEEL WORKBENCH W/ SINK	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140F	PW-CMS INSTRUMENTATION	BN8A	2	STEEL WORKBENCH W/ WOOD TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140F	PW-CMS INSTRUMENTATION	BN8B	2	MOBILE STEEL WORKBENCH W/ WOOD TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	30"D X 60"W					
17140F	PW-CMS INSTRUMENTATION	GB2	1	GARBAGE BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140F	PW-CMS INSTRUMENTATION	RB2	1	RECYCLING BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140F	PW-CMS INSTRUMENTATION	SS2B	2	TOOL CABINET	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H				N	
17140F	PW-CMS INSTRUMENTATION	SS3A	2	TOOL CABINET	REFER TO A007	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H				N	
17140F	PW-CMS INSTRUMENTATION	WX1	1	PAPER TOWEL DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17140F	PW-CMS INSTRUMENTATION	WX2	1	SOAP DISPENSER	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	WALL						
17140G															
17140G	PW-CMS TOOL STORAGE	BN8A	1	STEEL WORKBENCH W/ WOOD TOP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17140G	PW-CMS TOOL STORAGE	SR1A	3	SHELVING RACK - 4H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 101"W X 96"H				N	
17140G	PW-CMS TOOL STORAGE	SS2A	2		SEE SPECIFICATIONS									N	
17140G	PW-CMS TOOL STORAGE	SS2B	2		SEE SPECIFICATIONS									N	
17150															
17150	PW-CMS OFFICE	FN2	2	TASK CHAIR	N/A	NEW	OWNER	OWNER	N/A	N/A	N	N	N	N	
17150	PW-CMS OFFICE	FN3	2	SIT/STAND DESK	N/A	NEW	OWNER	CONTRACTOR	FLOOR	30"D X 42"W					
17150	PW-CMS OFFICE	FN5	1	LATERAL FILE CABINET	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	18"D X 42"W					
17150	PW-CMS OFFICE	GB1	1	GARBAGE BIN, 7GAL	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
17150	PW-CMS OFFICE	RB1	1	RECYCLING BIN, 7GAL	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010A															
18010A	PW CPD STORAGE	BN7C	2	WORKBENCH W/ PEGBOARD	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	30"D X 60"W	N	N	N	N	
18010A	PW CPD STORAGE	EO7	1	DRILL PRESS	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A		N			
18010A	PW CPD STORAGE	EO19	2	PW CPD TOOL STORAGE CABINETS	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A		Y-SEE ELEC.	N	N	
18010A	PW CPD STORAGE	EO20	2	PW CPD MOBILE TOOL CABINETS	N/A	EXISTING	OWNER	CONTRACTOR	N/A						
18010A	PW CPD STORAGE	FSC1	1	FIRE SAFETY CABINET	SEE SPECIFICATIONS	EXISTING	OWNER	CONTRACTOR	N/A	N/A	N	N	N	N	
18010A	PW CPD STORAGE	GB2	1	GARBAGE BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR			N		N	N	
18010A	PW CPD STORAGE	RB2	1	RECYCLING BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010B															
18010B	PW FORESTRY	BN5	2	EXISTING WORKBENCH	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N	N	N	
18010B	PW FORESTRY	BN6	1	EXISTING WORKBENCH	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A	N	N	N	N	
18010B	PW FORESTRY	EO7	1	DRILL PRESS	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A		Y-SEE ELEC.	N	N	
18010B	PW FORESTRY	EO8	1	CHANSAW SHARPNER	N/A	EXISTING	OWNER	CONTRACTOR	FLOOR	N/A		Y-SEE ELEC.	N	N	
18010B	PW FORESTRY	EO12	1	AIR COMPRESSOR	N/A	EXISTING	OWNER	CONTRACTOR							
18010B	PW FORESTRY	FN4	1	WOOD BENCH SEATING	N/A	EXISTING	OWNER	CONTRACTOR	N/A	N/A	N	N	N	N	
18010B	PW FORESTRY	FSC1	2	FIRE SAFETY CABINET	SEE SPECIFICATIONS	EXISTING	OWNER	CONTRACTOR	N/A	N/A	N	N	N	N	
18010B	PW FORESTRY	GB2	1	GARBAGE BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010B	PW FORESTRY	LK1	8	LOCKERS	N/A	EXISTING	OWNER	CONTRACTOR	N/A	N/A	N	N	N	N	
18010B	PW FORESTRY	RB2	1	RECYCLING BIN, 32GAL, C/W DOLLY	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010B	PW FORESTRY	RL2	1	ROLLING LADDER - 5 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
18010B	PW FORESTRY	SS2B	1	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
18010C															
18010C	PW WASTE MANAGEMENT	RL2	1	ROLLING LADDER - 5 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR						N	
18010C	PW WASTE MANAGEMENT	SR3	2	SHELVING RACK - 3H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	48"D X 101"W X 96"H	N	N	N	N	
18010D															
18010D	SCADA STORAGE	RL2	1	ROLLING LADDER - 5 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	N/A	N/A	N	N	N	N	
18010D	SCADA STORAGE	SR1B	5	SHELVING RACK - 4H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 77" X 96"H	N	N	N	N	
18010D	SCADA STORAGE	SS2A	3	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
18010D	SCADA STORAGE	SS3A	3	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
18010E															
18010E	SCADA OFFICE	FN2	1	TASK CHAIR	N/A	NEW	OWNER	OWNER						N	
18010E	SCADA OFFICE	GB1	1	GARBAGE BIN, 7GAL	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010E	SCADA OFFICE	RB1	1	RECYCLING BIN, 7GAL	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010F															
18010F	SCADA SHOP	FN2	2	TASK CHAIR	N/A	NEW	OWNER	OWNER						N	
18010F	SCADA SHOP	GB1	1	GARBAGE BIN, 7GAL	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010F	SCADA SHOP	RB1	1	RECYCLING BIN, 7GAL	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR							
18010F	SCADA SHOP	SS2A	2	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
18010H															
18010H	CMS-STOREAGE	MR2	4	STACK RACK		NEW	CONTRACTOR	CONTRACTOR							
18010H	CMS-STOREAGE	MR3	1												
20000A															
20000A	BAS STORAGE	BN11	1	WOOD WORKBENCH W/ CABINETS	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	30"D X 48"	N	N	N	N	OWNER TO CONFIRM HEIGHT
20000A	BAS STORAGE	SS2A	2	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000B															
20000B	RECORDS STORAGE	DS1	9	FLAT ARCH E DRAWING STORAGE CABINETS (STACK 2X UNITS HIGH)	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	41.5"D X 53.5"W	N	N	N	N	
20000C															
20000C	SECURITY STORAGE	SR1A	3	SHELVING RACK - 4H	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 101"W X 96"H	N	N	N	N	
20000C	SECURITY STORAGE	SS2A	2	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000E															
20000E	CS-FMO SHELVING STORAGE	RL1	1	ROLLING LADDER - 3 STEP	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	N/A	N	N	N	N	
20000E	CS-FMO SHELVING STORAGE	SS1B	30	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000E	CS-FMO SHELVING STORAGE	SS2B	8	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000E	CS-FMO SHELVING STORAGE	SS3C	14	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000F															
20000F	PW-SHELVING STORAGE	SS1A	6	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000F	PW-SHELVING STORAGE	SS1B	119	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000F	PW-SHELVING STORAGE	SS2A	59	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000F	PW-SHELVING STORAGE	SS2D	6	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	
20000F	PW-SHELVING STORAGE	SS3A	40	REFER TO A007	SEE SPECIFICATIONS	NEW	CONTRACTOR	CONTRACTOR	FLOOR	24"D X 48"W X 96"H	N	N	N	N	

1	2024/10/02	ISSUED FOR TENDER	
NO.	DATE	ISSUED	

REVISIONS

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CLIENT:



ARCHITECT:

**C**



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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



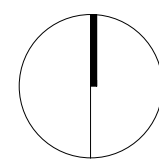
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

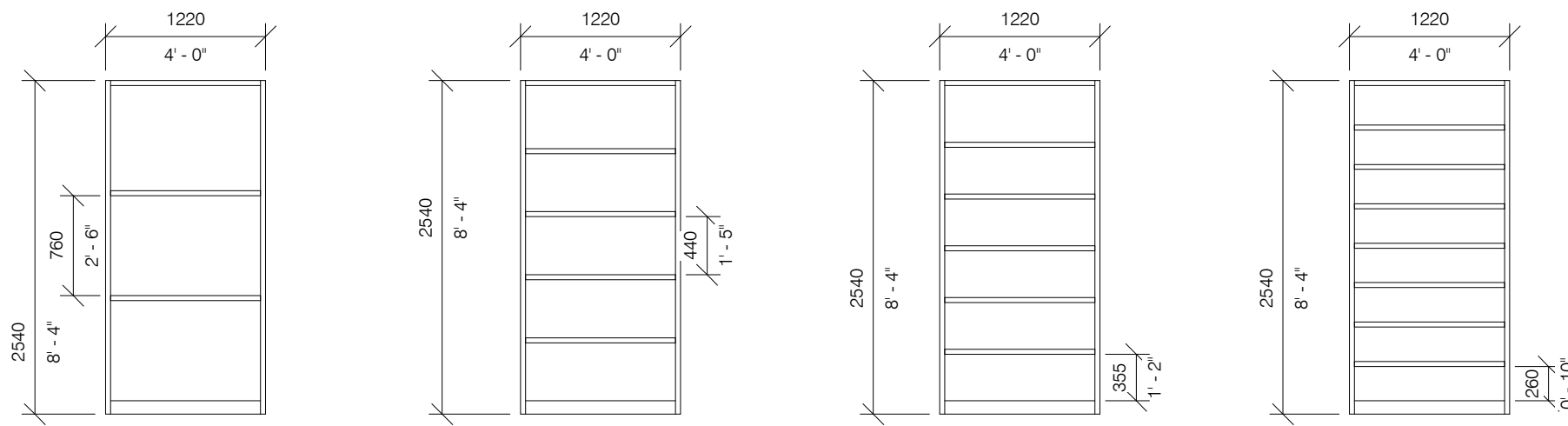


### SHELVING STORAGE UNIT TYPES

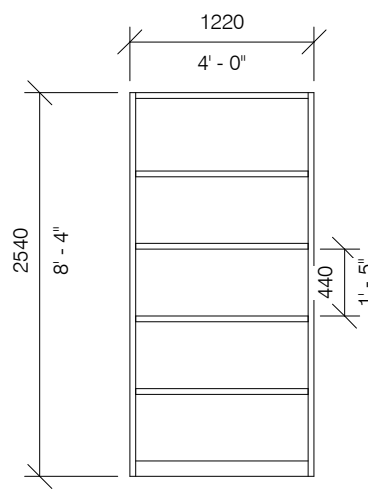
ENTERED: L.T.	DRAWING NO.
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	

22-136

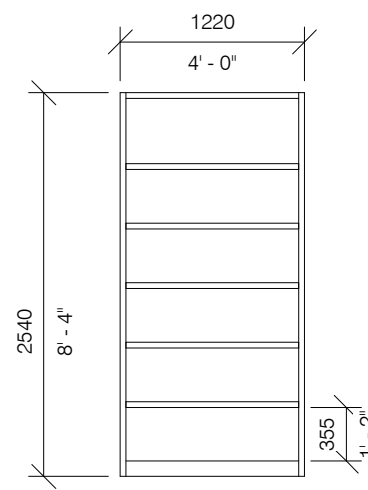
A007



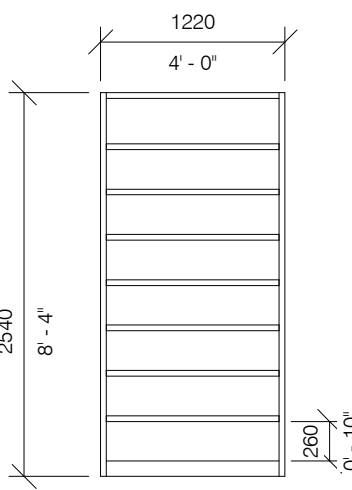
**SS1A - 3H SHELVING**  
• 3x TIERS  
• ADJUSTABLE SHELVING  
• CLOSED SIDE PANELS  
• OPEN BACK (NO BACK PANEL)



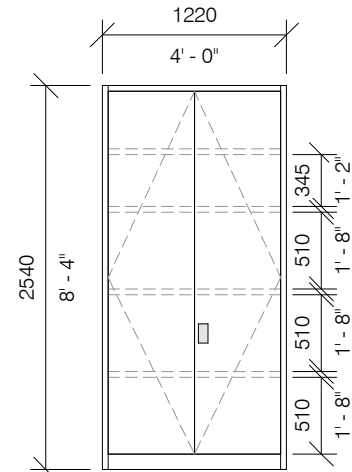
**SS1B - 5H SHELVING**  
• 5x TIERS  
• ADJUSTABLE SHELVING  
• CLOSED BACK AND SIDE PANELS



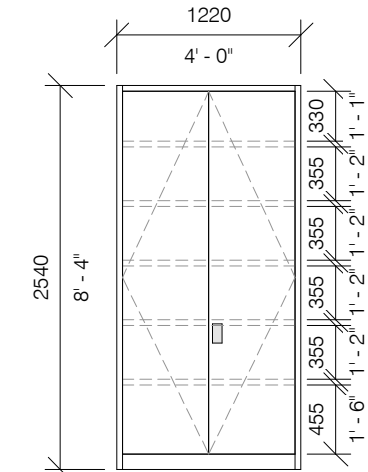
**SS1C - 6H SHELVING**  
• 5x ADJUSTABLE SHELVES  
• CLOSED BACK AND SIDE PANELS



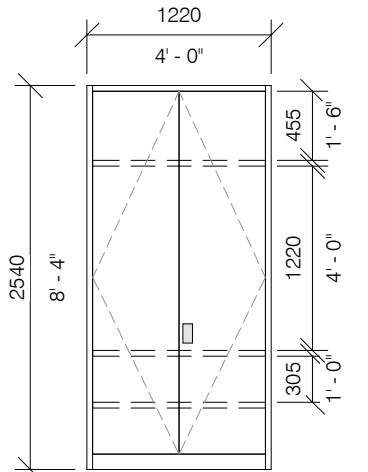
**SS1D - 8H SHELVING**  
• 7x ADJUSTABLE SHELVES  
• CLOSED BACK AND SIDE PANELS



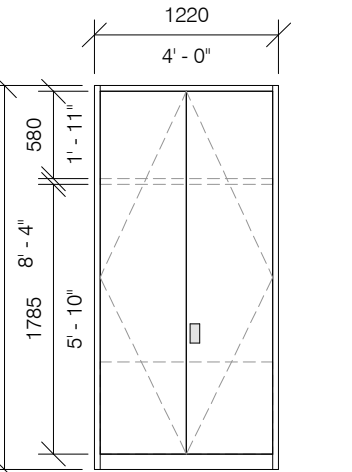
**SS2A - 5H CABINET**  
• 4x ADJUSTABLE SHELVES  
• CLOSED BACK AND SIDE PANELS  
• SWING DOORS C/W LOCKS



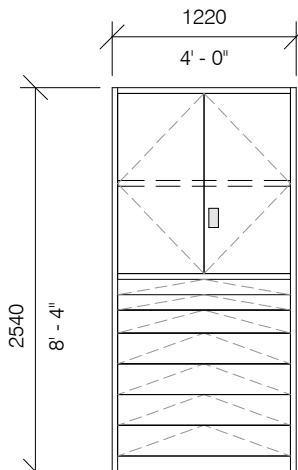
**SS2B - 6H CABINET**  
• 4x ADJUSTABLE SHELVES  
• CLOSED BACK AND SIDE PANELS  
• SWING DOORS C/W LOCKS



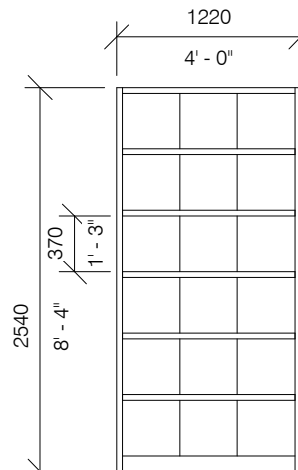
**SS2C - LOCKER**  
• 3x ADJUSTABLE SHELVES  
• CLOSED BACK AND SIDE PANELS  
• SWING DOORS C/W LOCKS  
• LOCKER INTERIOR: HANGER ROD FOR JACKETS.



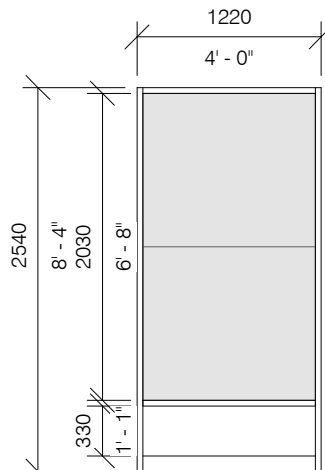
**SS2D - BIN**  
• BIN WITH BASE PANEL  
• 1x ADJUSTABLE SHELF  
• CLOSED BACK AND SIDE PANELS  
• SWING DOORS C/W LOCKS



**SS3A - CABINET W/ DRAWERS**  
• DRAWERS:  
• 2x 102mm H DRAWERS C/W 8x COMPARTMENTS  
• 1x 152mm H DRAWERS C/W 8x COMPARTMENTS  
• 4x 203mm H DRAWERS C/W 8x COMPARTMENTS  
• CABINET W/ 2x TIERS (1x ADJUSTABLE SHELF)  
• CLOSED BACK AND SIDE PANELS  
• SWING DOORS C/W LOCKS



**SS3B - SIGN STORAGE**  
• 6x TIERS  
• ADJUSTABLE SHELVING  
• CLOSED BACK AND SIDE PANELS  
• PROVIDE SHELF DIVIDERS

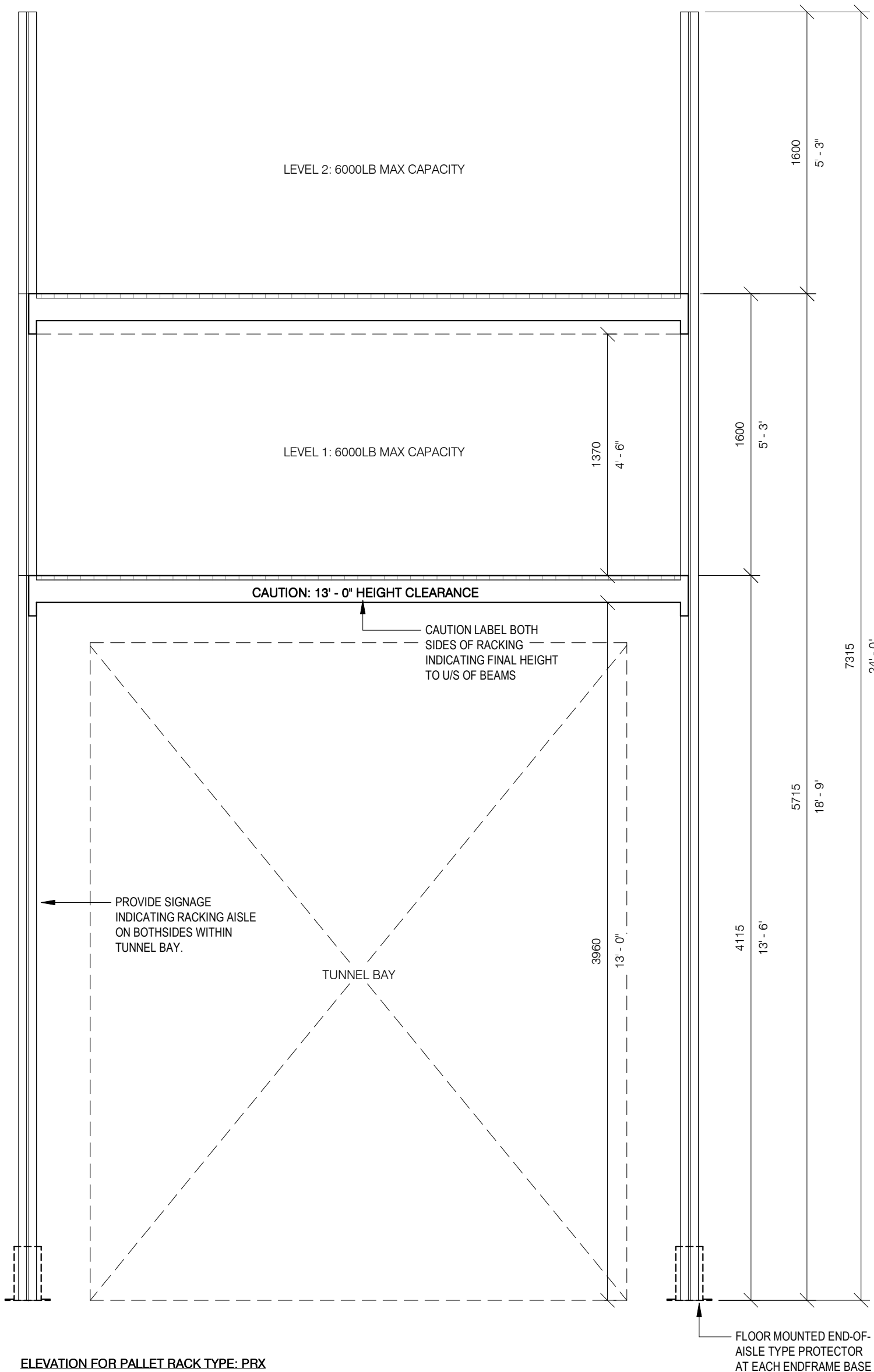
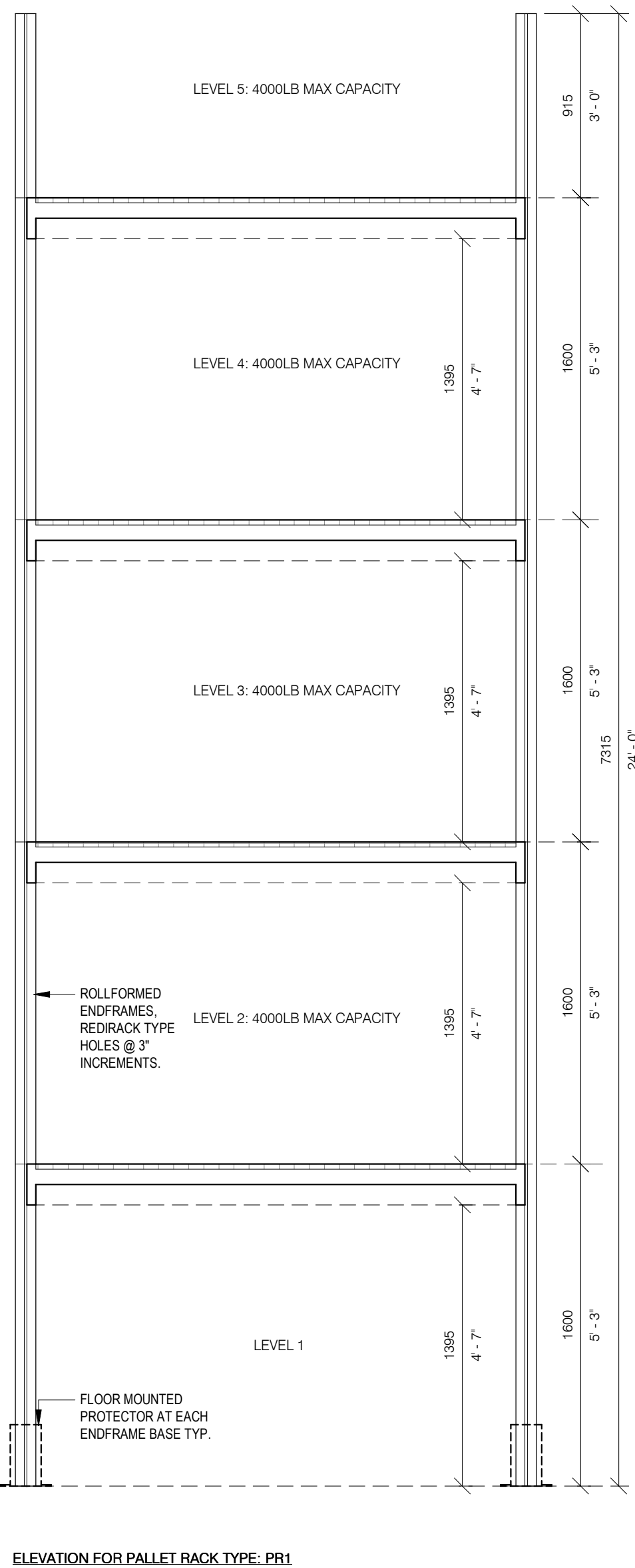
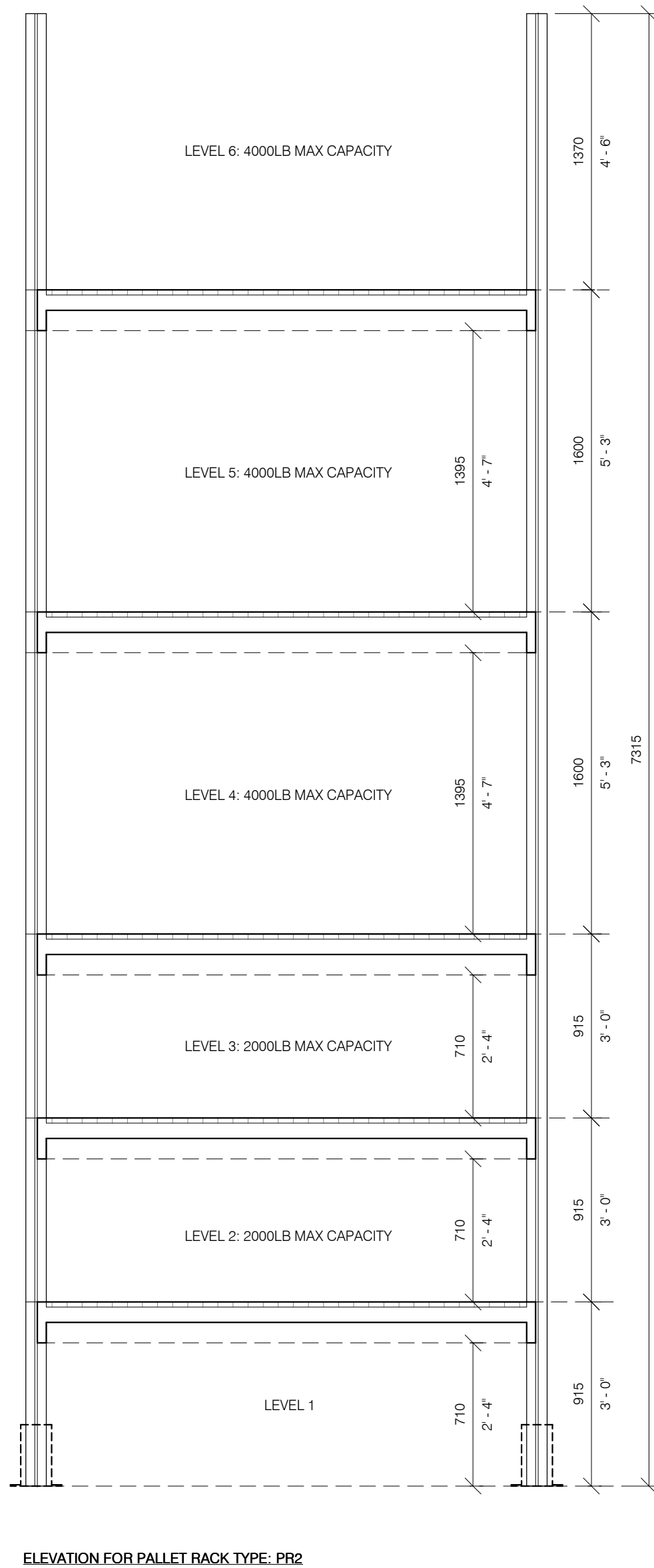
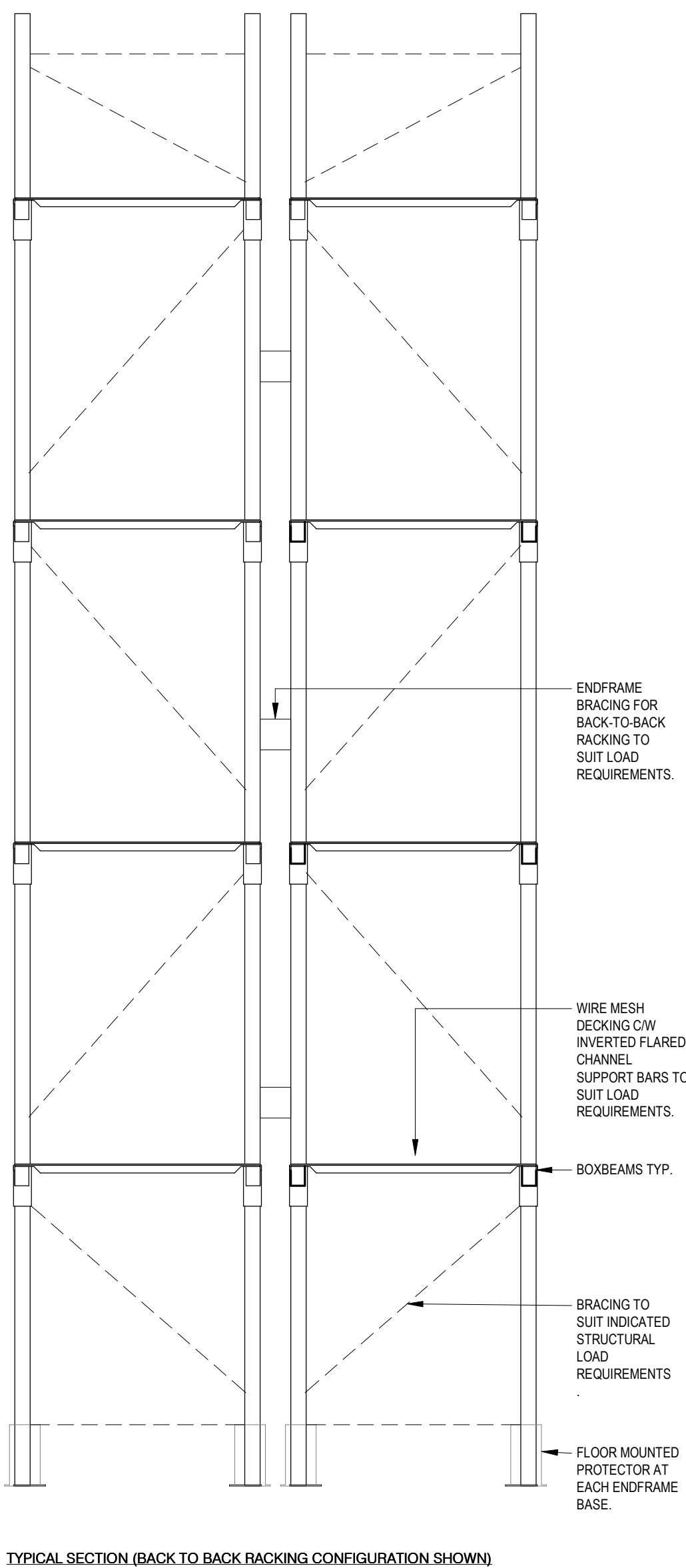
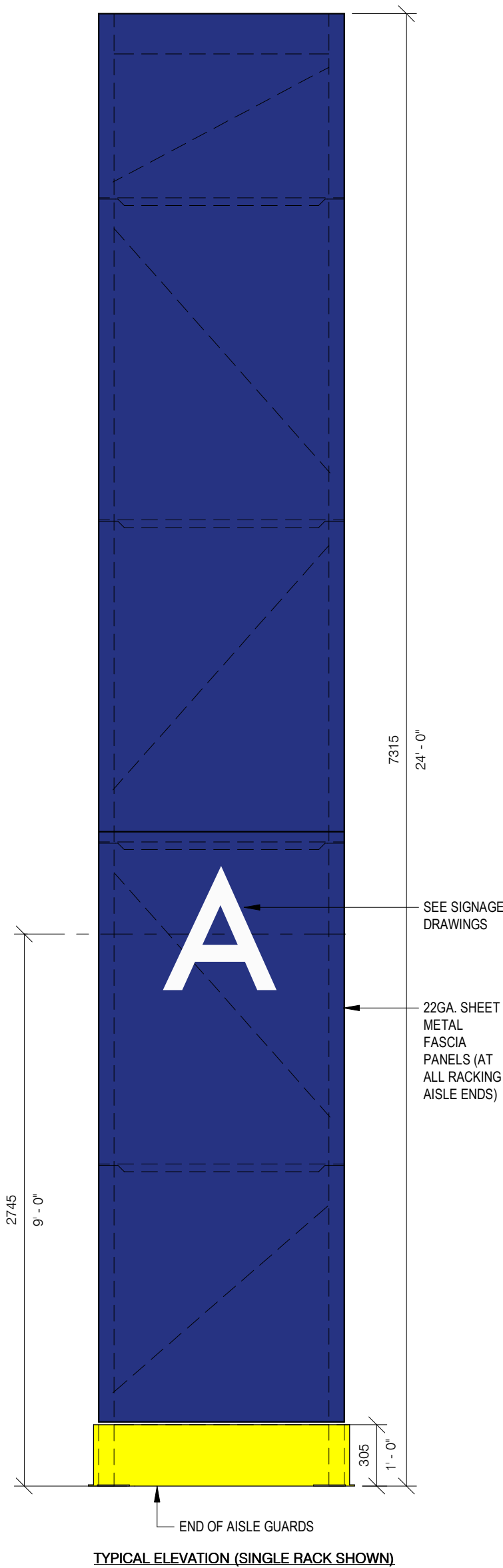


**SS3C - CABLE/BELT STORAGE**  
• ADJUSTABLE SHELF  
• PROVIDE PERFORATED BACK PANELS MINIMUM 6x4'1" (243P)  
• AREA C/W HANGERS FOR CABLES AND BELTS  
• CLOSED SIDE PANELS

#### NOTE:

- PROVIDE LABELS FOR:  
1.1 EACH SHELVING UNIT.  
1.2 ALL SHELVES.  
1.3 COORDINATE W/ OWNERS FOR LABEL STANDARD.
- KEYING AND LOCKS:  
2.1 KEY LOCKERS INDIVIDUALLY.  
2.2 KEY SHELVING UNITS ALIKE WITHIN SAME DEPARTMENT.  
2.3 CYLINDERS: PROVIDE COMPATIBLE MEDECO CLIO CYLINDER FOR ALL LOCKS. COORDINATE W/ OWNERS SECURITY STANDARD. LOCKING HARDWARE TO BE FINALIZED DURING SHOP DRAWING REVIEW.
- CUSTOM COMPONENTS: PROVIDE CUSTOM COMPONENTS FROM MANUFACTURER WHERE DRAWINGS SHOW SIZES NOT AVAILABLE AS STANDARD FROM MANUFACTURER. (IE. DOOR PANELS ARE REQUIRED TO ENCLOSE ENTIRE HEIGHT OF CABINETS AS INDICATED.)
- FOR SHELVING THAT IS PART OF MULTI-LEVEL SHELVING, REFER TO APPLICABLE SECTIONS/ ELEVATIONS FOR REQUIRED SIDE PANEL HEIGHTS TO SUIT PROPOSED HEIGHT OF MULTI-LEVEL SHELVING.



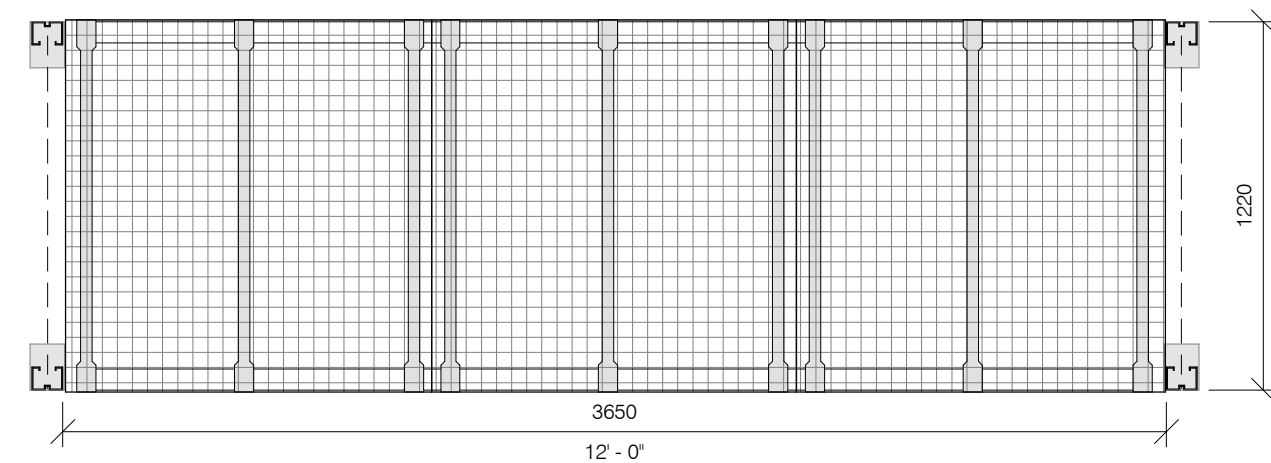
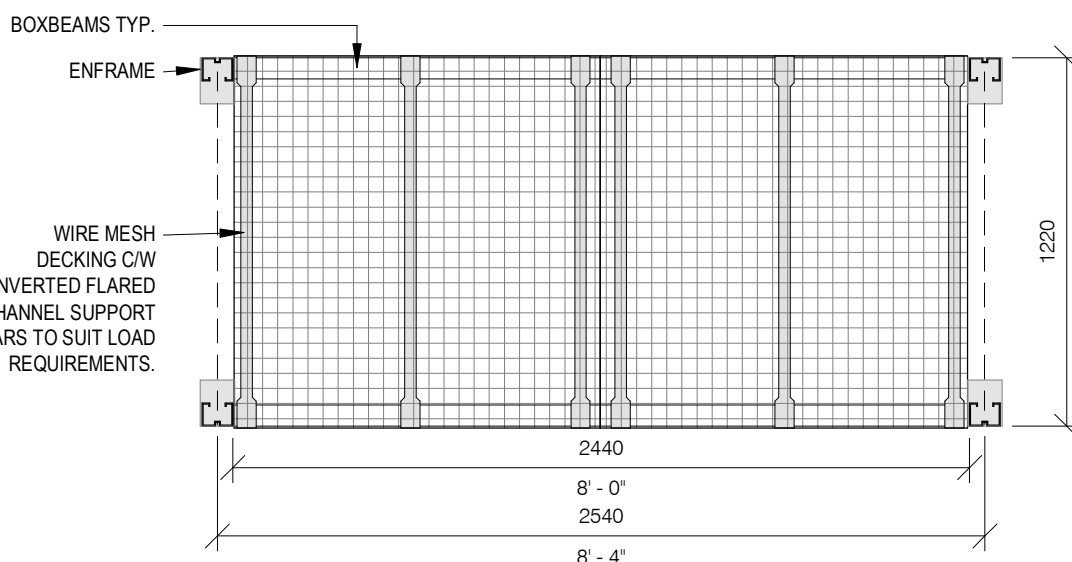


#### GENERAL CONSTRUCTION NOTES:

A. PALLET RACKING: DRAWINGS INDICATE GENERAL SIZE AND CONFIGURATION REQUIREMENTS. PALLET RACKING DETAILS AND COMPONENT SIZES WILL DIFFER DEPENDING ON MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS PREPARED BY MANUFACTURER/ AUTHORIZED VENDOR. SUPPLY AND INSTALL CUSTOM COMPONENTS WHERE SHOWN COMPONENT SIZES ARE NOT AVAILABLE FROM MANUFACTURER AS STANDARD SIZE.

B. MECHANICAL AND ELECTRICAL SYSTEMS: CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL WORKS SERVING PALLET RACKING (IE. SPRINKLERS, LIGHTING, POWER ETC.)

C. STRUCTURAL REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS REGARDING REQUIRED CONCRETE FLOOR SLAB THICKNESS/ CAPACITY INVESTIGATIONS.



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#### REVISIONS

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



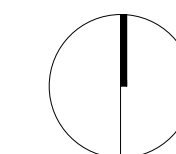
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



## PALLET RACK TYPES, TYPICAL PLANS, SECTIONS, ELEVATIONS

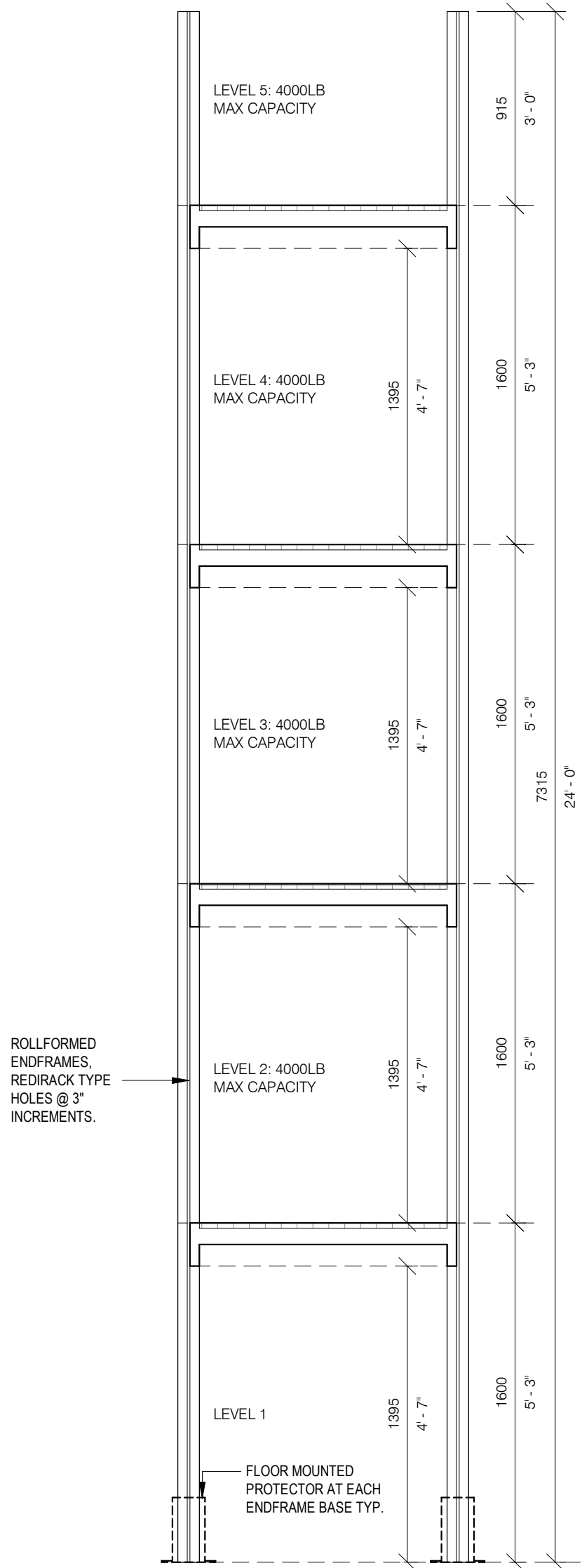
ENTERED: L.T.  
CHECKED: D.C.  
DATE: SEP.2024  
PROJECT NO.

DRAWING NO.

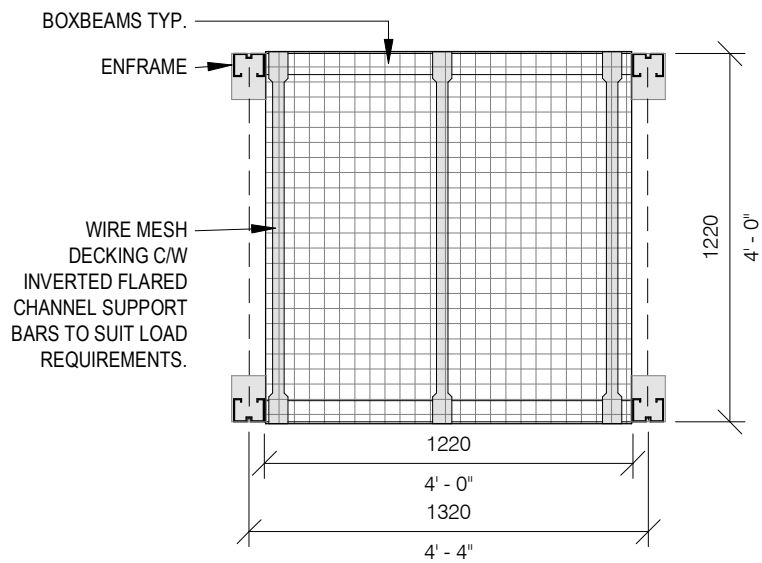
A008a

22-136





ELEVATION FOR PALLET RACK TYPE: PR3



PLAN VIEW OF PALLET RACK TYPE: PR3

**GENERAL CONSTRUCTION NOTES:**

A. PALLET RACKING: DRAWINGS INDICATE GENERAL SIZE AND CONFIGURATION REQUIREMENTS. PALLET RACKING DETAILS AND COMPONENT SIZES WILL DIFFER DEPENDING ON MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS PREPARED BY MANUFACTURER/ AUTHORIZED VENDOR. SUPPLY AND INSTALL CUSTOM COMPONENTS WHERE SHOWN COMPONENT SIZES ARE NOT AVAILABLE FROM MANUFACTURER AS STANDARD SIZE.

B. MECHANICAL AND ELECTRICAL SYSTEMS: CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL WORKS SERVING PALLET RACKING (IE: SPRINKLERS, LIGHTING, POWER ETC.)

C. STRUCTURAL REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS REGARDING REQUIRED CONCRETE FLOOR SLAB THICKNESS/ CAPACITY INVESTIGATIONS.

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



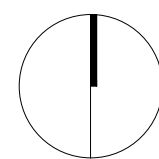
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PALLET RACK TYPE PR3

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

22-136

DRAWING NO.

A008b



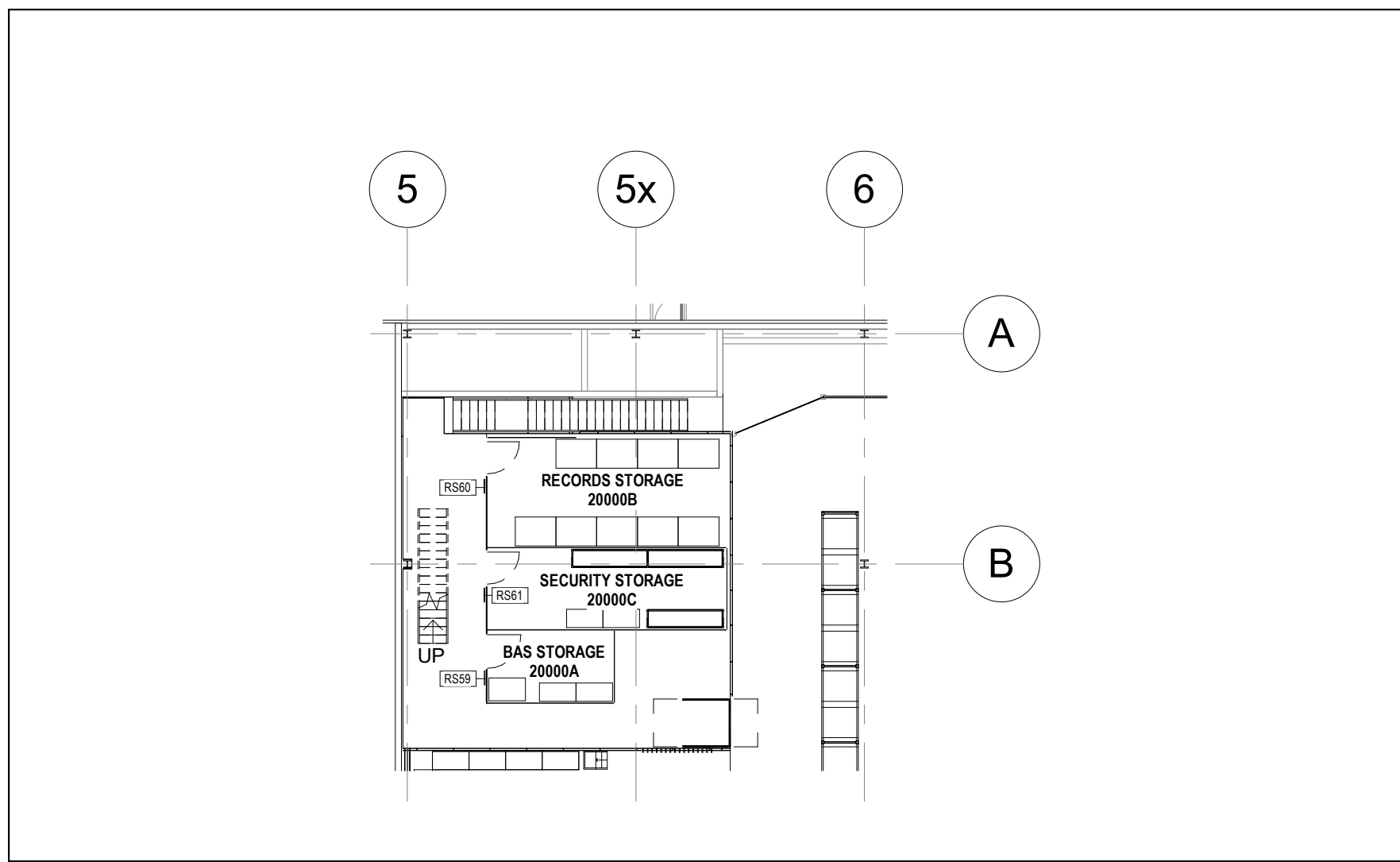
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SAS22	SAS	CCEM		
SAS23	SAS	CCEM		
SAS24	SAS	CCEM		
SAS31	SAS	FORESTRY		
SAS32	SAS	FORESTRY		
SAS33	SAS	FORESTRY		
SAS34	SAS	FORESTRY		
SAS41	SAS	FORESTRY		
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SAS72	SAS	FORESTRY		
SAS73	SAS	FORESTRY		
SAS74	SAS	FORESTRY		
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SAS82	SAS	CPD		
SAS83	SAS	CPD		
SAS84	SAS	CPD		
SAS91	SAS	CPD		
SAS92	SAS	CPD		
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SAS122	SAS	BSOI		
SAS123	SAS	BSOI		
SAS124	SAS	BSOI		
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SAS133	SAS	WASTE MANAGEMENT		
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SAS144	SAS	SPACE ACCOMMODATION		
SAS151	SAS	SCADA		
SAS152	SAS	SCADA		
SAS153	SAS	SCADA		
SAS154	SAS	SCADA		
SAS161	SAS	WATER RESOURCES, SCADA		
SAS162	SAS	WATER RESOURCES, SCADA		
SAS163	SAS	SCADA		
SAS164	SAS	SCADA		
SAS171	SAS	OMM		
SAS172	SAS	OMM		
SAS173	SAS	OMM		
SAS174	SAS	OMM		
SAS181	SAS	OMM		
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SAS184	SAS	OMM		
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SS67	SS	FORESTRY 37		
SS68	SS	FORESTRY 38		
SS69	SS	FORESTRY 39		
SS70	SS	WATER RESOURCES 3		
SS71	SS	FORESTRY 50		

SHELVING STORAGE SIGNAGE SCHEDULE				
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SS109	SS	GREENING 4		
SS110	SS	GREENING 5		
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SS113	SS	FORESTRY 73		
SS114	SS	FORESTRY 74		
SS115	SS	FORESTRY 75		
SS116	SS	FORESTRY 76		
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SS118	SS	FORESTRY 78		
SS119	SS	FORESTRY 79		
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SS123	SS	CPD 3		
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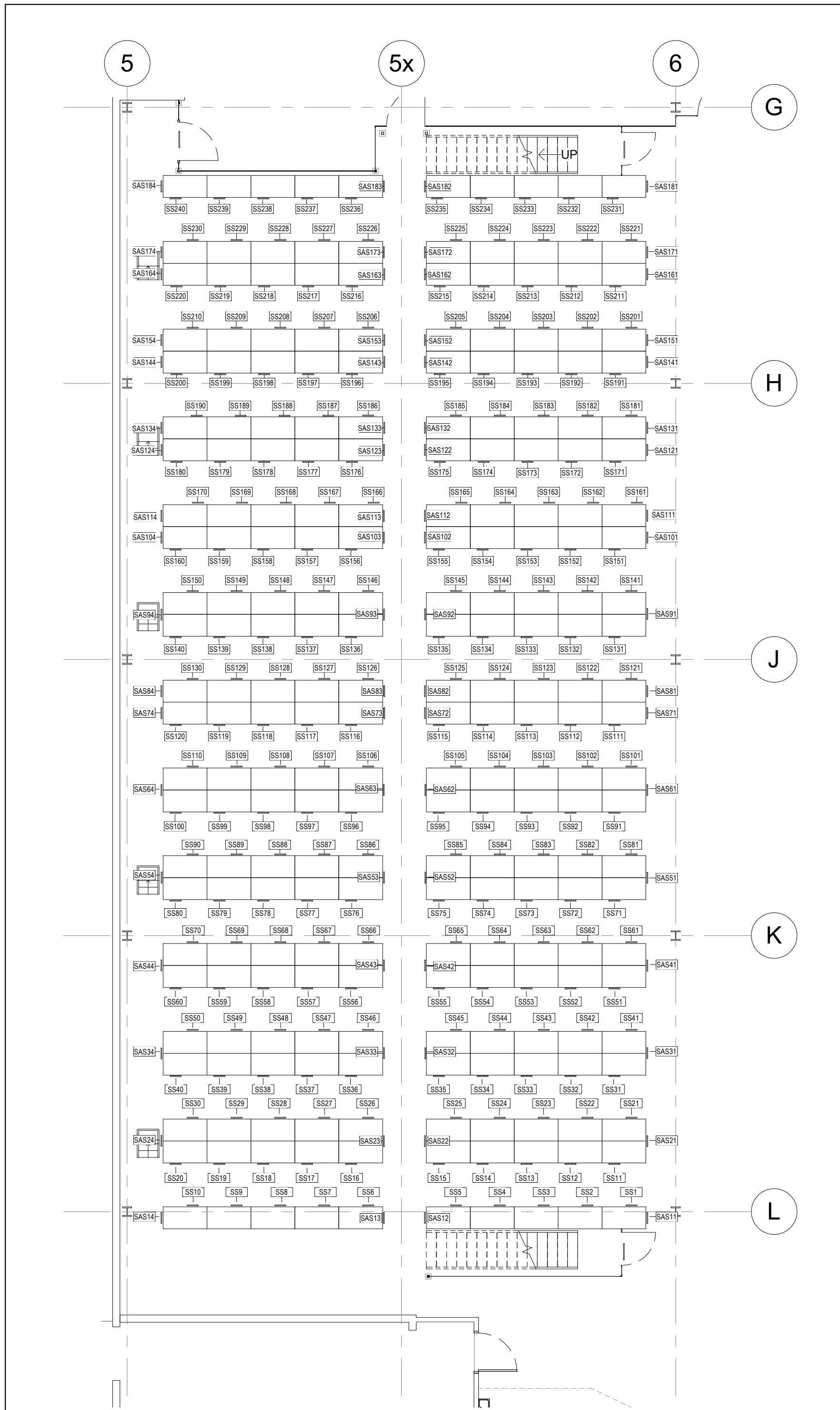
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SS220	SS	SCADA 6		
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SS222	SS	OMM 12		
SS223	SS	OMM 13		
SS224	SS	OMM 14		
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SS237	SS	OMM 7		
SS238	SS	OMM 8		
SS239	SS	OMM 9		
SS240	SS	OMM 10		

ROOM SIGNAGE SCHEDULE				
TAG	SIGN TYPE	MESSAGE	NOTES	
RS01	RS	WASH-BAY		
RS02	RS	INSTRUMENTATION		
RS03	RS	PW CMS WORKSHOP		
RS04	RS	PW CMS WORKSHOP		
RS05	RS	ELECTRICAL		
RS06	RS	SOUTH LOADING DOCK		
RS07	RS	PW CMS WORKSHOP		
RS08	RS	PW WATER RESOURCES		
RS09	RS	PW BSCI		
RS10	RS	PW COEM		
RS11	RS	LAUNDRY		
RS12	RS	SERVICE ROOM		
RS13	RS	PW FORESTRY		
RS14	RS	PW CPD		
RS15	RS	PW WASTE MANAGEMENT		
RS17	RS	PW CMS STORAGE		
RS19	RS	PW STORAGE		
RS20	RS	PW CMS STORAGE		
RS21	RS	PW STORAGE		
RS22	RS	PW STORAGE		
RS23	RS	PW CMS OFFICE		
RS24	RS	PW CPD		
RS25	RS	PW FORESTRY		
RS26	RS	PW SCADA WORKSHOP		
RS27	RS	SCADA OFFICE		
RS28	RS	SCADA SHOP		
RS29	RS	PW CMS WORKSHOP		
RS35	RS	CS AUDIO VISUAL		
RS36	RS	CS FACILITY SERVICES		
RS37	RS	CS CAPITAL DELIVERY		
RS38	RS	CS FACILITY MAINTENANCE & OPERATIONS		
RS39	RS	CS FACILITY MAINTENANCE & OPERATIONS		
RS40	RS	CS 1		
RS41	RS	CS 2		
RS42	RS	CS 3		
RS43	RS	CS 4		
RS44	RS	CS 5		
RS45	RS	CS 6		
RS46	RS	CS 7		
RS47	RS	CS FACILITY MAINTENANCE & OPERATIONS		
RS48	RS	CS 8		
RS49	RS	CS 9		
RS50	RS	CS 10		
RS51	RS	CS 11		
RS52	RS	CS 12		
RS53	RS	NORTH LOADING DOCK		
RS54	RS	CS FACILITY MAINTENANCE & OPERATIONS		
RS55	RS	CS FACILITY MAINTENANCE & OPERATIONS		
RS59	RS	BAS STORAGE		
RS60	RS	RECORDS STORAGE		
RS61	RS	SECURITY STORAGE		
RS62	RS	CS FMO RECEIVING DIRECTORY INFORMATION		OWNER TO PROVIDE INFO
RS63	RS	IT & SECURITY		

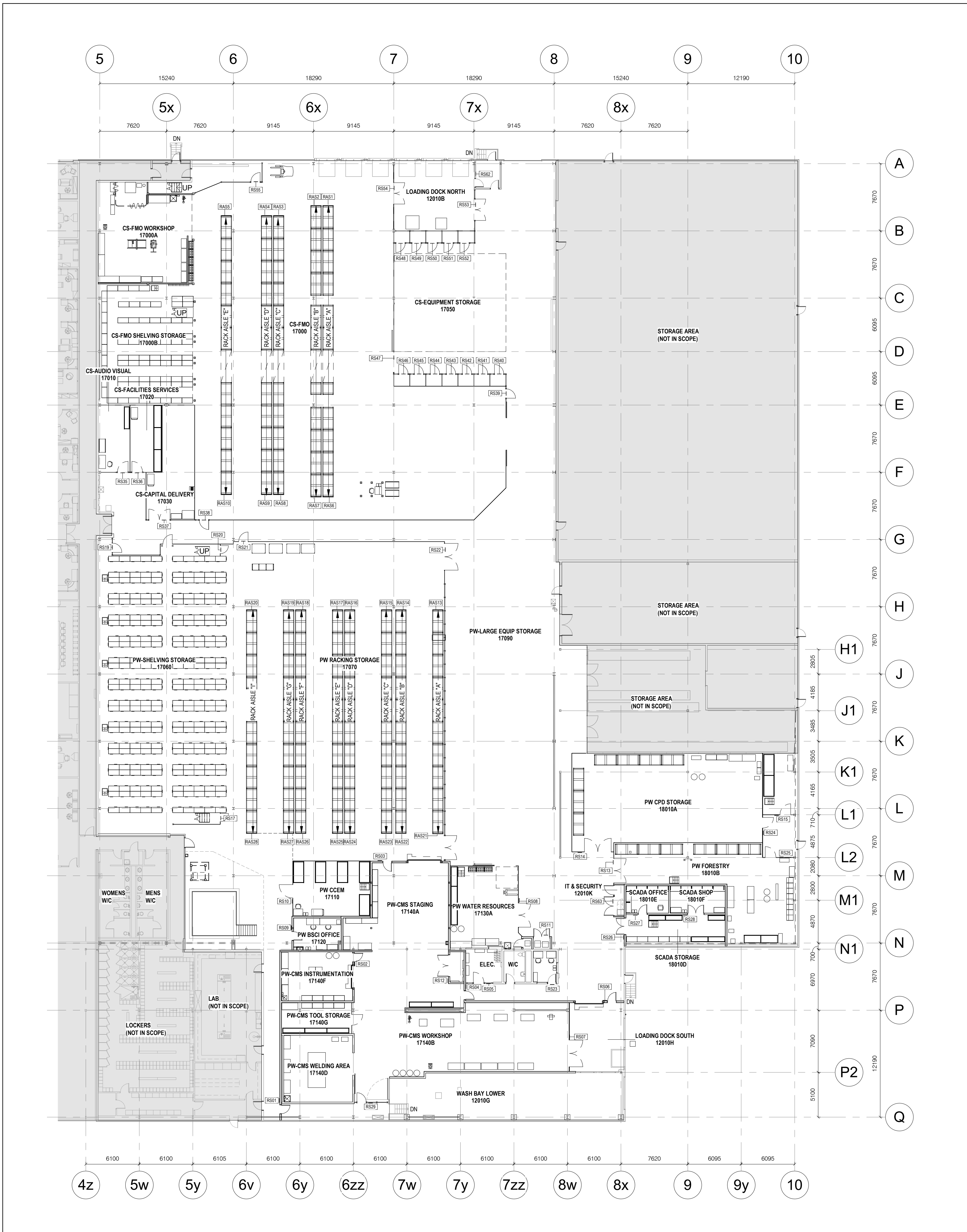




2 PROPOSED SIGNAGE PLAN-CS MEZZANINE  
A010 1 : 200



3 PROPOSED SIGNAGE PLAN PW SHELVING STORAGE LEVEL 1  
A010 1 : 100



1 PROPOSED SIGNAGE PLAN-FIRST FLOOR  
A010 1 : 250

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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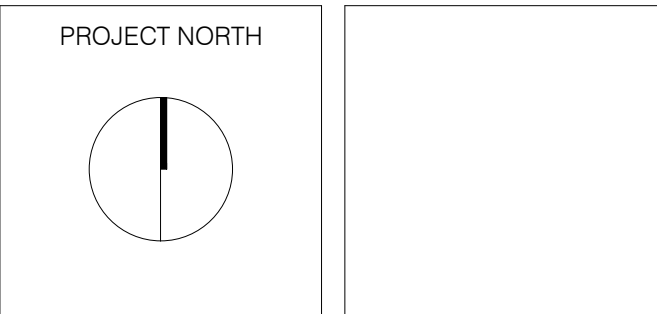
CLIENT:  
**York Region**

ARCHITECT:  
**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:  
**QUASAR**  
CONSULTING GROUP

STRUCTURAL ENGINEERING:  
**HONEYCOMB**

**HWP WAREHOUSE**  
UPGRADE  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



PROPOSED SIGNAGE PLANS

ENTERED: LT.	DRAWING NO.
CHECKED: D.C.	A010
DATE: SEP.2024	
PROJECT NO.	
22-136	



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 MEETS THE INTENT OF THIS DRAWING.

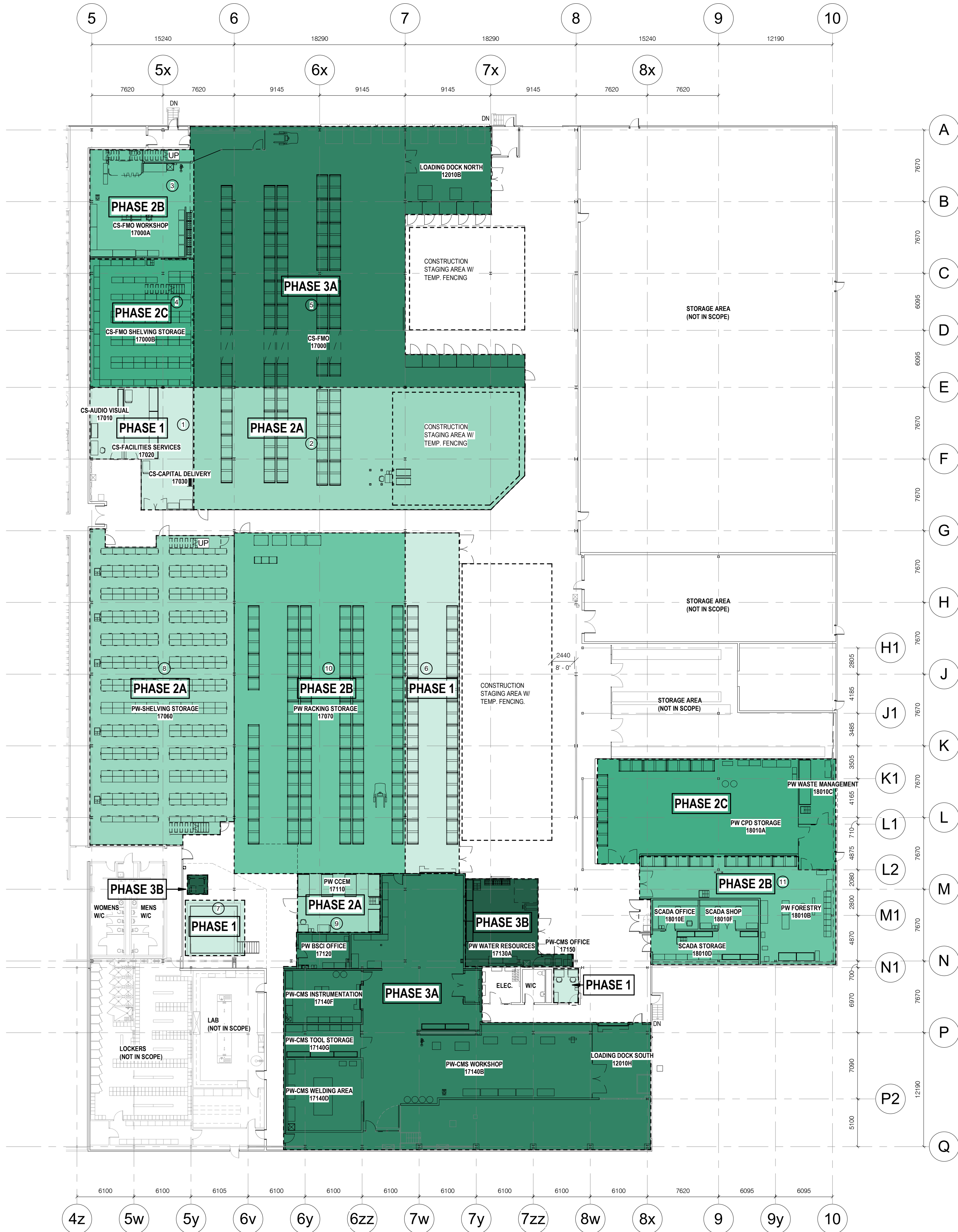
2. SHELVING AND RACKING STORAGE SYSTEMS CERTIFICATION: AT THE END OF EACH PHASE, CONTRACTOR TO OBTAIN REQUIRED SAFETY INSPECTIONS AND CERTIFICATIONS (IE. PSR) REQUIRED BY AUTHORITY HAVING JURISDICTION TO USE NEW STORAGE SYSTEMS TO RELOCATE/DECANT ITEMS FROM OTHER AREAS IN ORDER TO COMMENCE THE NEXT PHASE OF WORK.

CORPORATE SERVICES AREAS OF WORK:

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

PUBLIC WORKS AREAS OF WORK:

- 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.
- RELOCATE EXISTING TRAINING PLATFORM AND DRINKING FOUNTAIN.
- CONSTRUCT NEW MULTI-LEVEL SHELVING STORAGE SYSTEM. RELOCATE ALL EXISTING ITEMS.
- CONSTRUCT NEW PW-CDEM STORAGE AREA. PROVIDE TEMPORARY FENCING PRIOR TO CONSTRUCTION OF WORKSHOP WALLS. RELOCATE ITEMS TO STORAGE AREA.
- INSTALL REMAINDER OF NEW PALLET RACKING.
- CONSTRUCT NEW FORESTRY WORKSHOP AND STORAGE AREA. SCADA WORKSHOP. RELOCATE FORESTRY ITEMS INTO NEW STORAGE AREA.



1 PROPOSED PHASING DIAGRAM  
A011 1 : 250

1	2024/10/02	ISSUED FOR TENDER
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REVISIONS

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CLIENT:



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**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



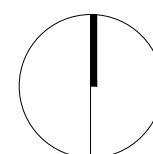
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE  
UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PROPOSED PHASING PLAN

ENTERED: LT.

CHECKED: D.C.

DATE: SEP.2024

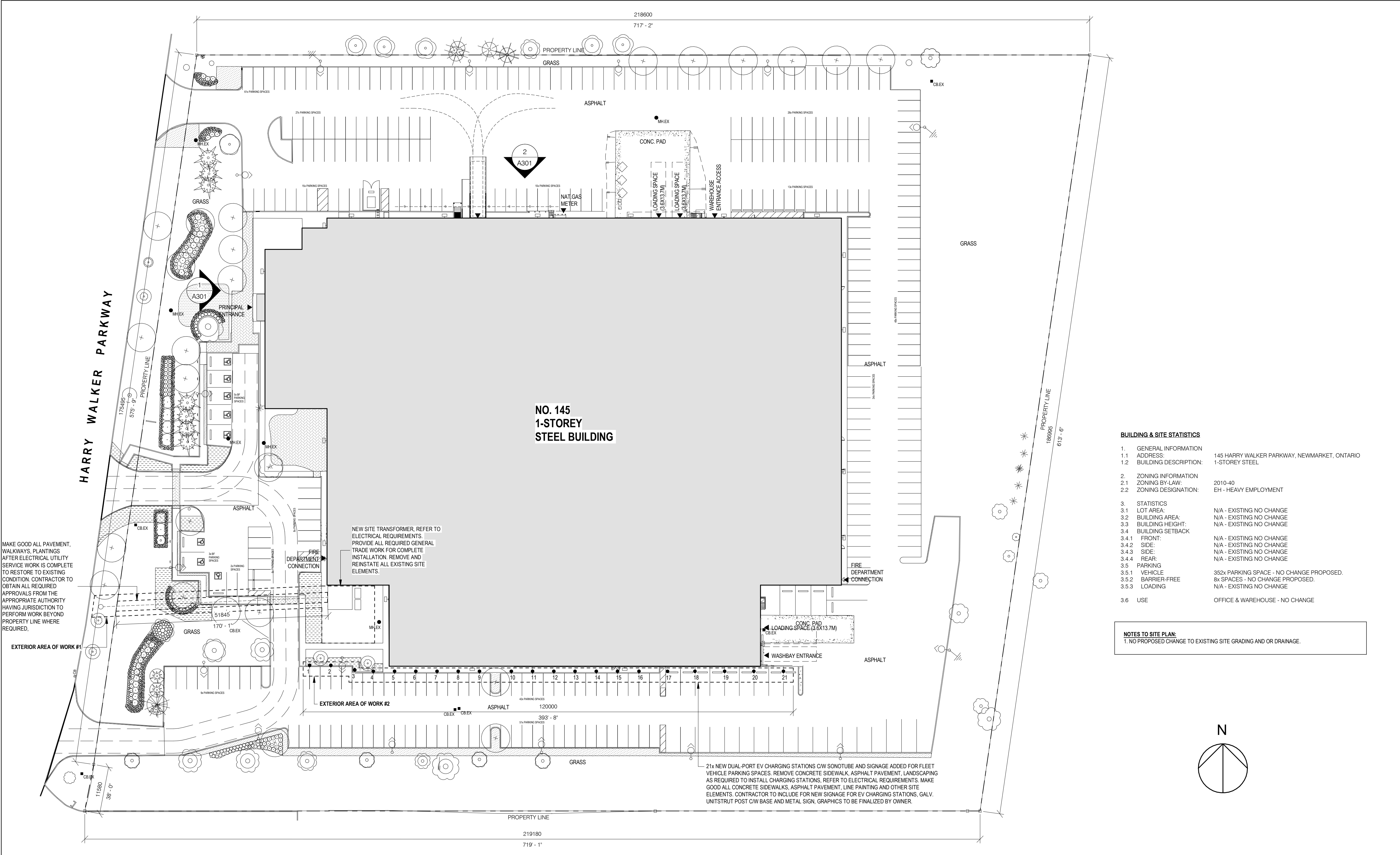
PROJECT NO.

22-136

DRAWING NO.

A011





1  
A051  
PROPOSED SITE PLAN  
1 : 500

BUILDING & SITE STATISTICS	
1. GENERAL INFORMATION	
1.1 ADDRESS:	145 HARRY WALKER PARKWAY, NEWMARKET, ONTARIO
1.2 BUILDING DESCRIPTION:	1-STORY STEEL
2. ZONING INFORMATION	
2.1 ZONING BY-LAW:	2010-40
2.2 ZONING DESIGNATION:	EH - HEAVY EMPLOYMENT
3. STATISTICS	
3.1 LOT AREA:	N/A - EXISTING NO CHANGE
3.2 BUILDING AREA:	N/A - EXISTING NO CHANGE
3.3 BUILDING HEIGHT:	N/A - EXISTING NO CHANGE
3.4 BUILDING SETBACK:	N/A - EXISTING NO CHANGE
3.4.1 FRONT:	N/A - EXISTING NO CHANGE
3.4.2 SIDE:	N/A - EXISTING NO CHANGE
3.4.3 REAR:	N/A - EXISTING NO CHANGE
3.5 PARKING	
3.5.1 VEHICLE	352x PARKING SPACE - NO CHANGE PROPOSED.
3.5.2 BARRIER-FREE	8x SPACES - NO CHANGE PROPOSED.
3.5.3 LOADING	N/A - EXISTING NO CHANGE
3.6 USE	OFFICE & WAREHOUSE - NO CHANGE

NOTES TO SITE PLAN:  
1. NO PROPOSED CHANGE TO EXISTING SITE GRADING AND OR DRAINAGE.

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ARCHITECT:

MECHANICAL & ELECTRICAL ENGINEERING:

STRUCTURAL ENGINEERING:

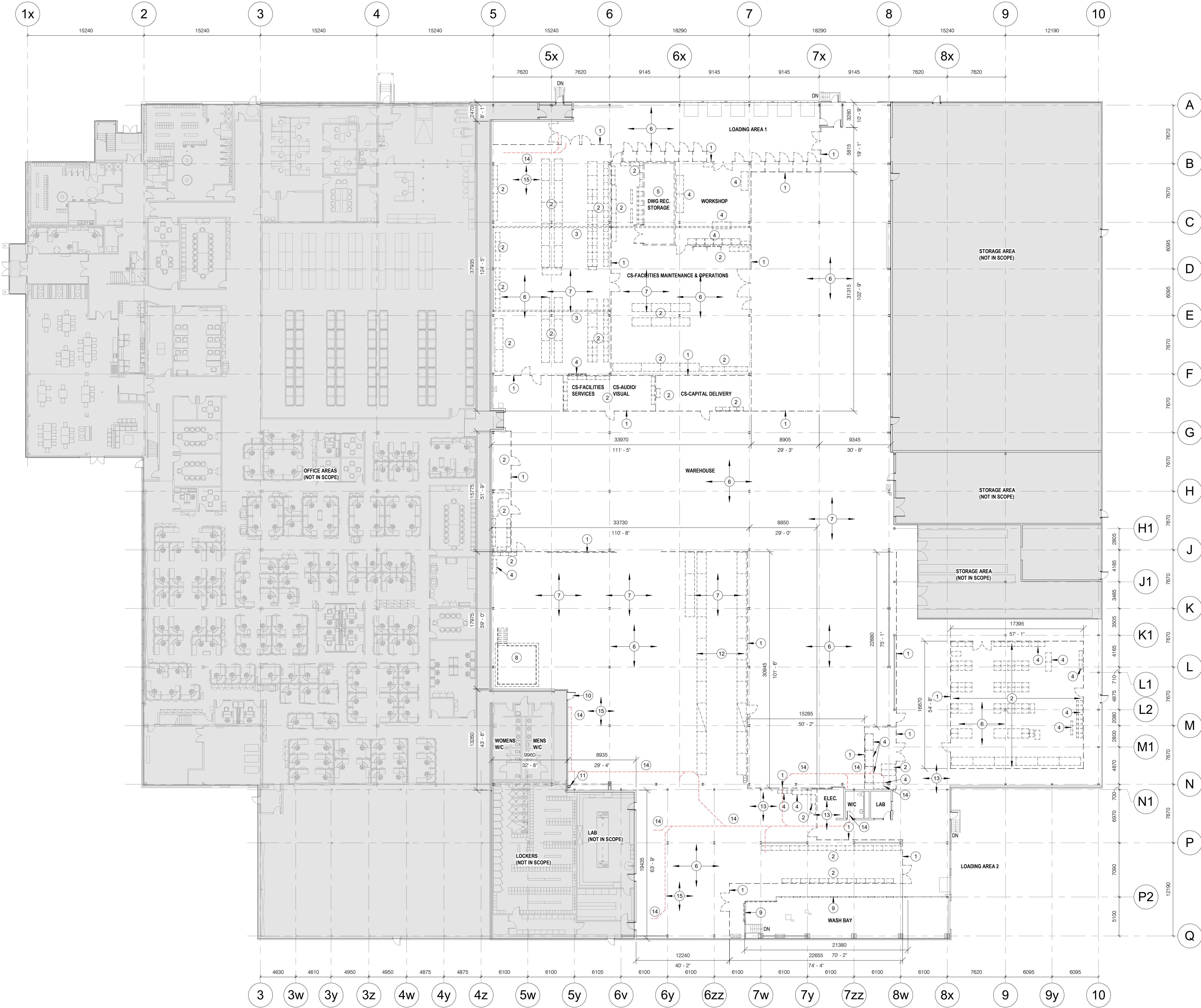
HWP WAREHOUSE  
UPGRADE  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

PROPOSED SITE PLAN

ENTERED: LT.	DRAWING NO.
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DATE: SEP.2024	
PROJECT NO.	
22-136	A051





**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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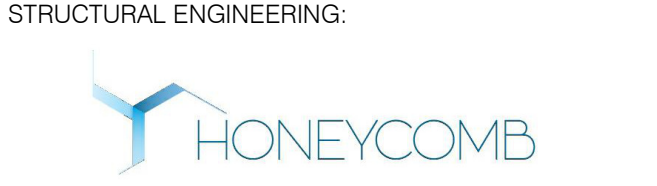
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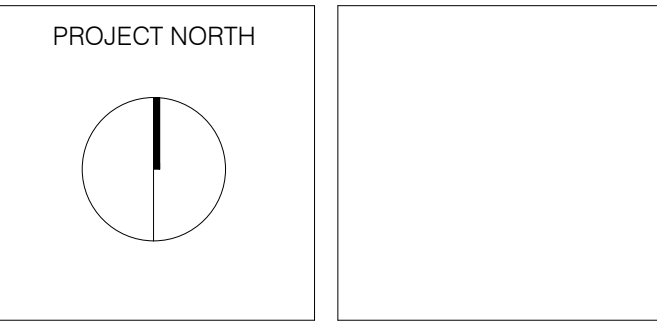
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**HWP WAREHOUSE UPGRADE**

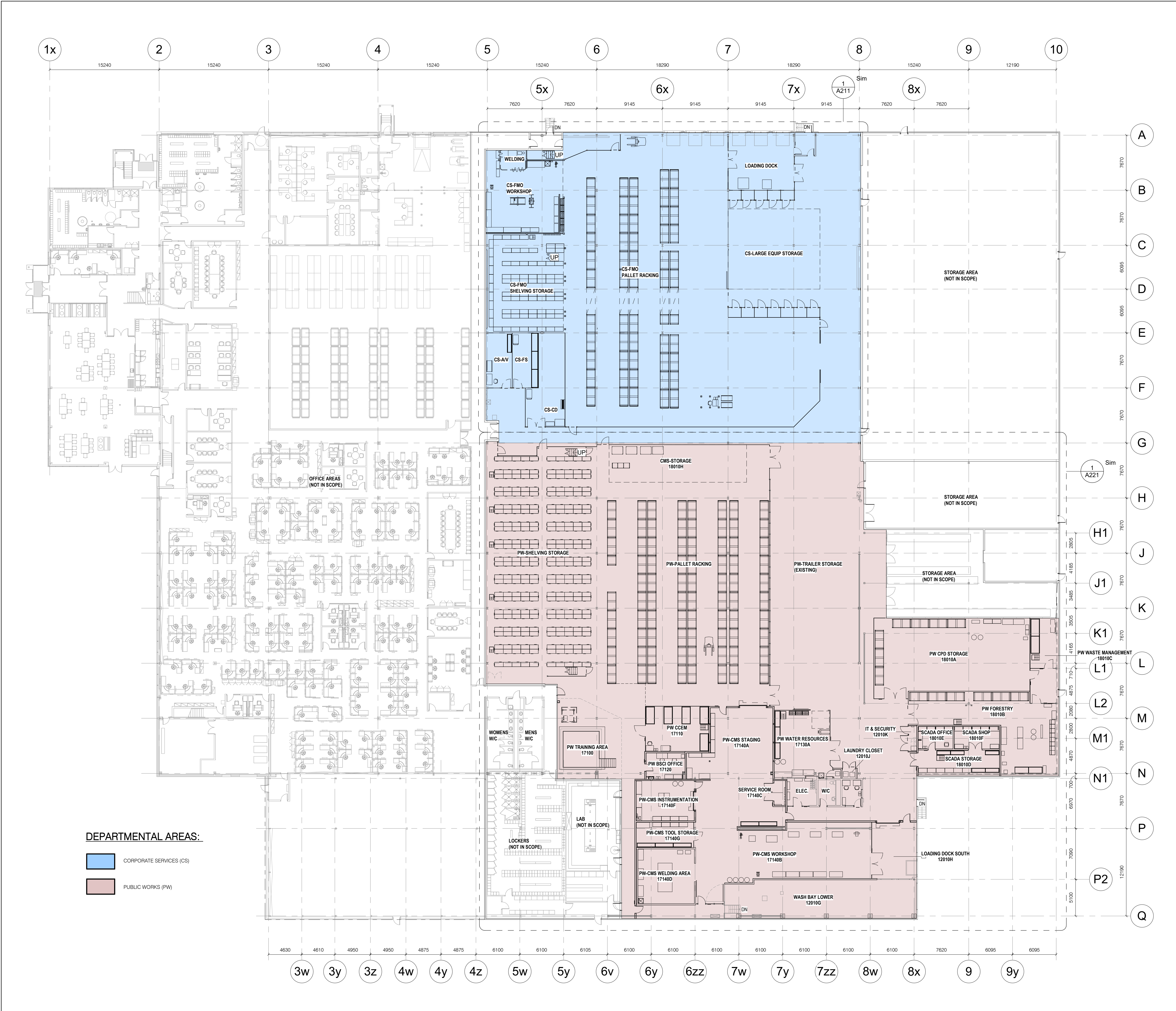
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



**DEMOLITION PLAN-OVERALL FIRST FLOOR**

ENTERED: L.T.	DRAWING NO.
CHECKED: D.C.	A101
DATE: SEP.2024	
PROJECT NO.	
22-136	





1  
A201  
PROPOSED FIRST FLOOR OVERALL PLAN  
1 : 250

**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	
FR	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	
ONC	ON CENTRE	
CWSJ	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	

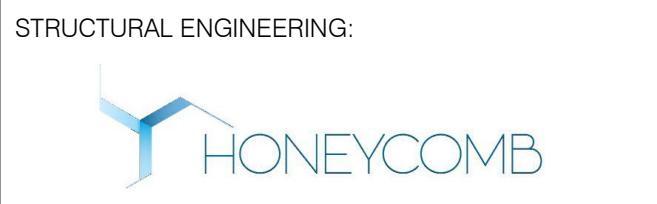
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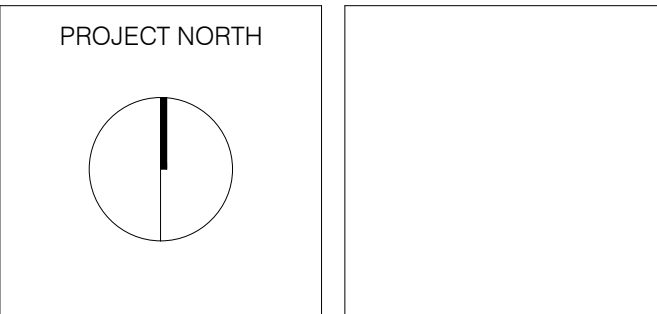
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**HWP WAREHOUSE  
UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



**PROPOSED FIRST FLOOR  
OVERALL PLAN**

ENTERED: L.T.	DRAWING NO.  A201
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	
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.
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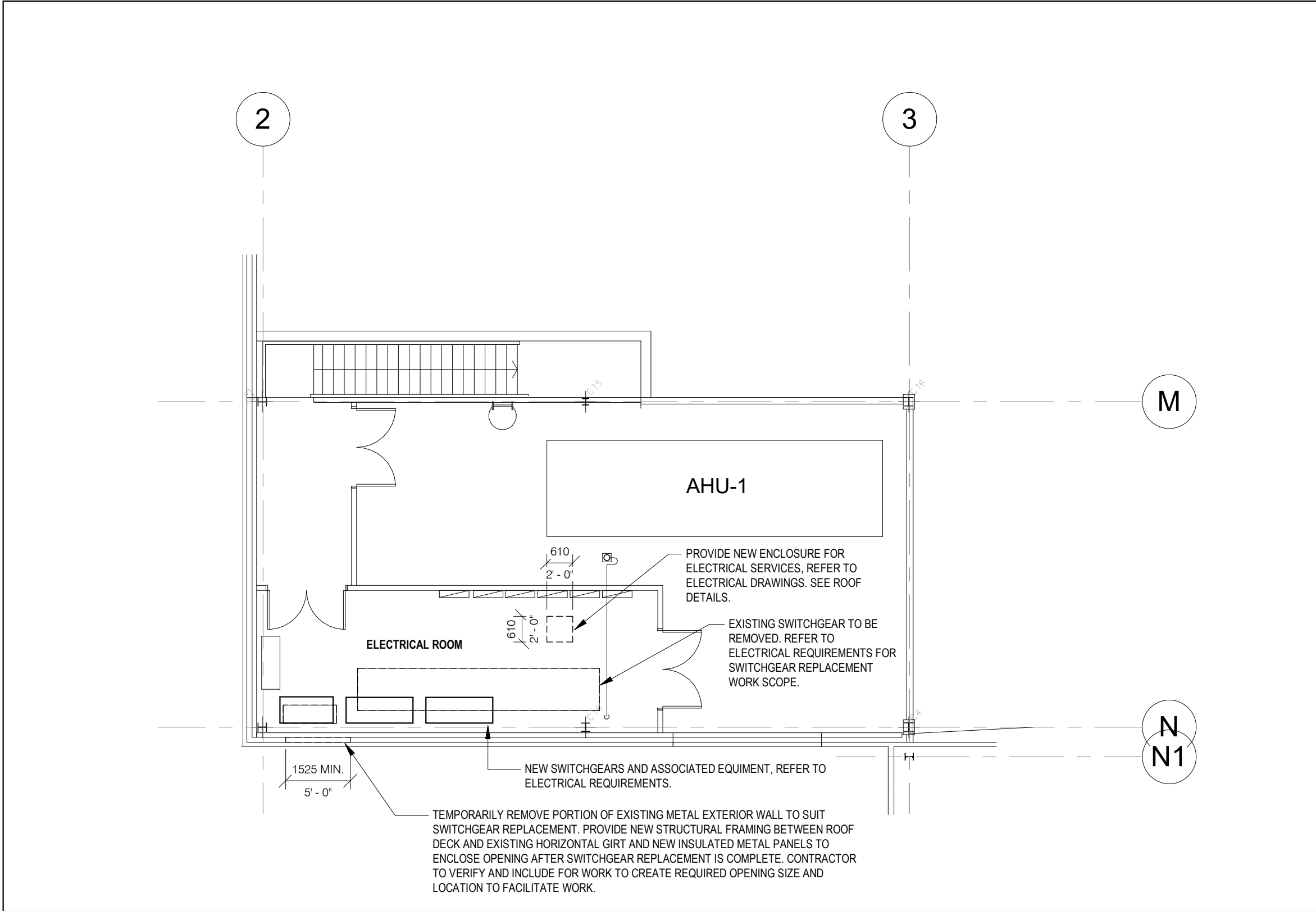
ABBREVIATIONS

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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
H/D	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

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 #



1 MEZZANINE ELECTRICAL ROOM PLAN  
A202 1 : 100

1	2024/10/02	ISSUED FOR TENDER
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DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



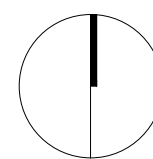
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



MEZZANINE ELECTRICAL ROOM  
PLAN

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

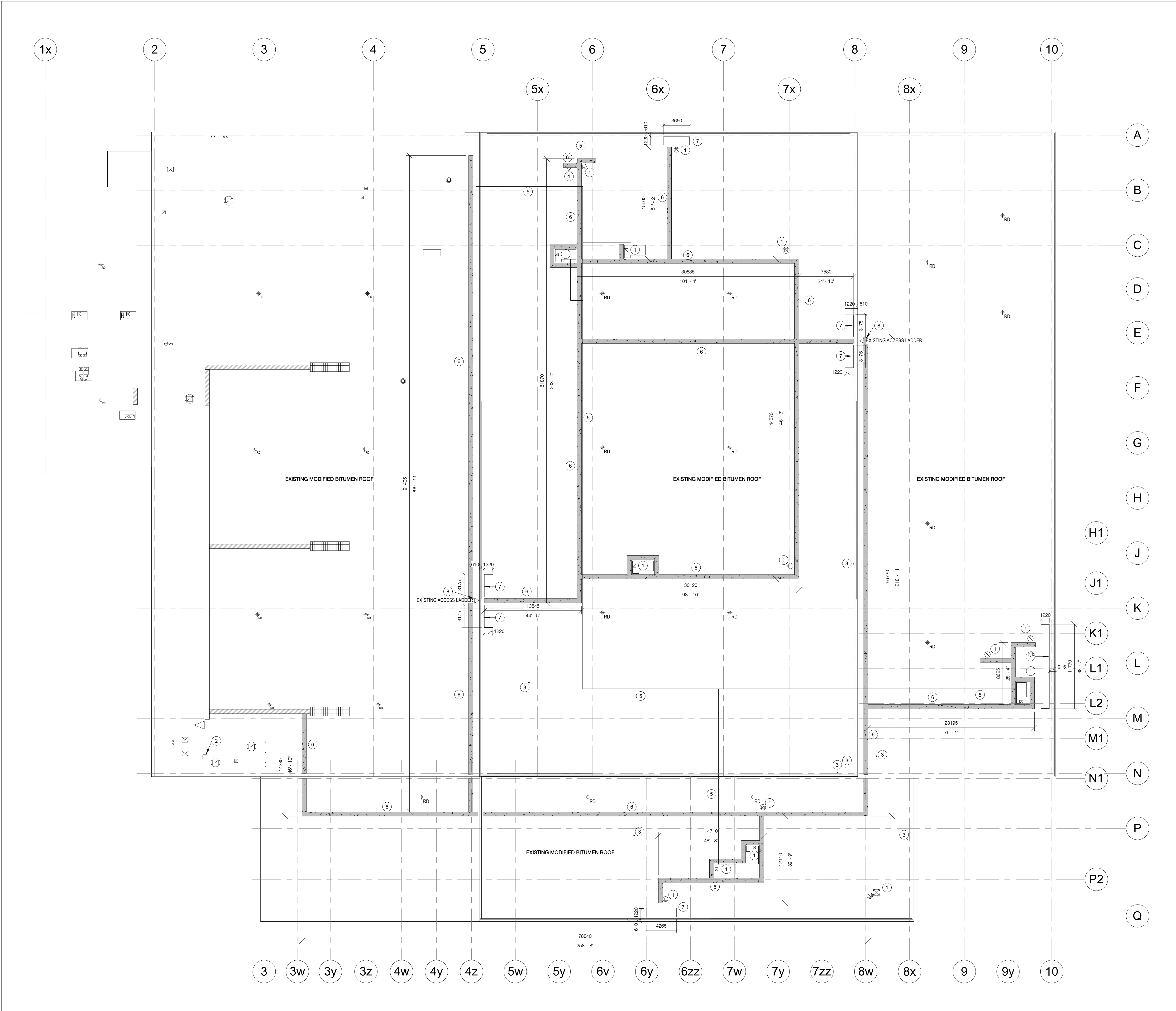
PROJECT NO.

DRAWING NO.

A202

22-136





KEYNOTES

- 1 NEW MECHANICAL ROOF EQUIPMENT C/W WITH CURBS. PROVIDE STRUCTURAL SUPPORT REINFORCEMENT FOR EQUIPMENT AND REQUIRED OPENINGS. SEE STRUCTURAL DETAILS. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT, REQUIRED OPENING SIZES AND LOCATIONS.
- 2 NEW 'DOGHOUSE' FOR CONDUIT ROOF PENETRATION.
- 3 NEW MECHANICAL ROOF SERVICE/VENT PENETRATION. REPAIR ROOFING AND PROVIDE FLASHING. REFER TO DETAILS.
- 4 RESERVED.
- 5 NEW MECHANICAL SERVICE (GAS LINE). REFER TO MECHANICAL DETAILS FOR GAS LINE AND PEDESTAL SUPPORT REQUIREMENTS.
- 6 NEW ROOF MAINTENANCE PATHWAY. PROVIDE 610x610mm CONCRETE PAVERS. ADJUST PATH AS REQUIRED TO SUIT FINAL INSTALLED EQUIPMENT LOCATIONS AND EXISTING CONDITIONS ON ROOF.
- 7 NEW MODULAR ROOF GUARDRAILS.
- 8 AT START OF CONSTRUCTION, CONTRACTOR TO PROVIDE THIRD PARTY SAFETY INSPECTION REPORT FOR ALL EXISTING ROOF ACCESS LADDERS. SUBMIT REPORTS TO OWNER AND CONSULTANTS FOR REVIEW.

GENERAL CONSTRUCTION NOTES:

- A. PROVIDE MECHANICAL PROTECTION TO EXISTING ROOFING, ROOF EQUIPMENT, ROOF DRAINS AS REQUIRED/ WHERE IMPACTED BY INSTALLATION OF NEW ROOF TOP EQUIPMENT.
- B. MAKE GOOD ALL ROOFING WHERE IMPACTED BY NEW WORK AT ALL AREAS OF WORK.
- C. COORDINATE W/ OWNER'S TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY WORK STANDARDS.
- D. REFER TO STRUCTURAL DRAWINGS FOR FRAMING REQUIREMENTS AROUND NEW ROOF PENETRATIONS AND OPENINGS FOR NEW ROOF EQUIPMENT.
- E. ALL MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO APPLICABLE MECHANICAL & ELECTRICAL DRAWINGS FOR DETAIL REQUIREMENTS.
- F. INFILL AND ENCLOSE ALL EXISTING UNUSED ROOF OPENINGS WITH NEW ROOF CONSTRUCTION TO MATCH EXISTING ROOF ASSEMBLY.
- G. REFER TO DETAILS FOR TYPICAL ROOF CURB CONDITIONS AND REQUIREMENTS. CONTRACTOR TO ADJUST CONSTRUCTION OF ROOF CURBS AS NECESSARY TO SUIT SITE CONDITION, EXISTING CONSTRUCTION ASSEMBLY, MECHANICAL EQUIPMENT MOUNTING 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  
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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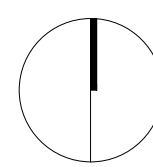
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PROPOSED ROOF PLAN

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

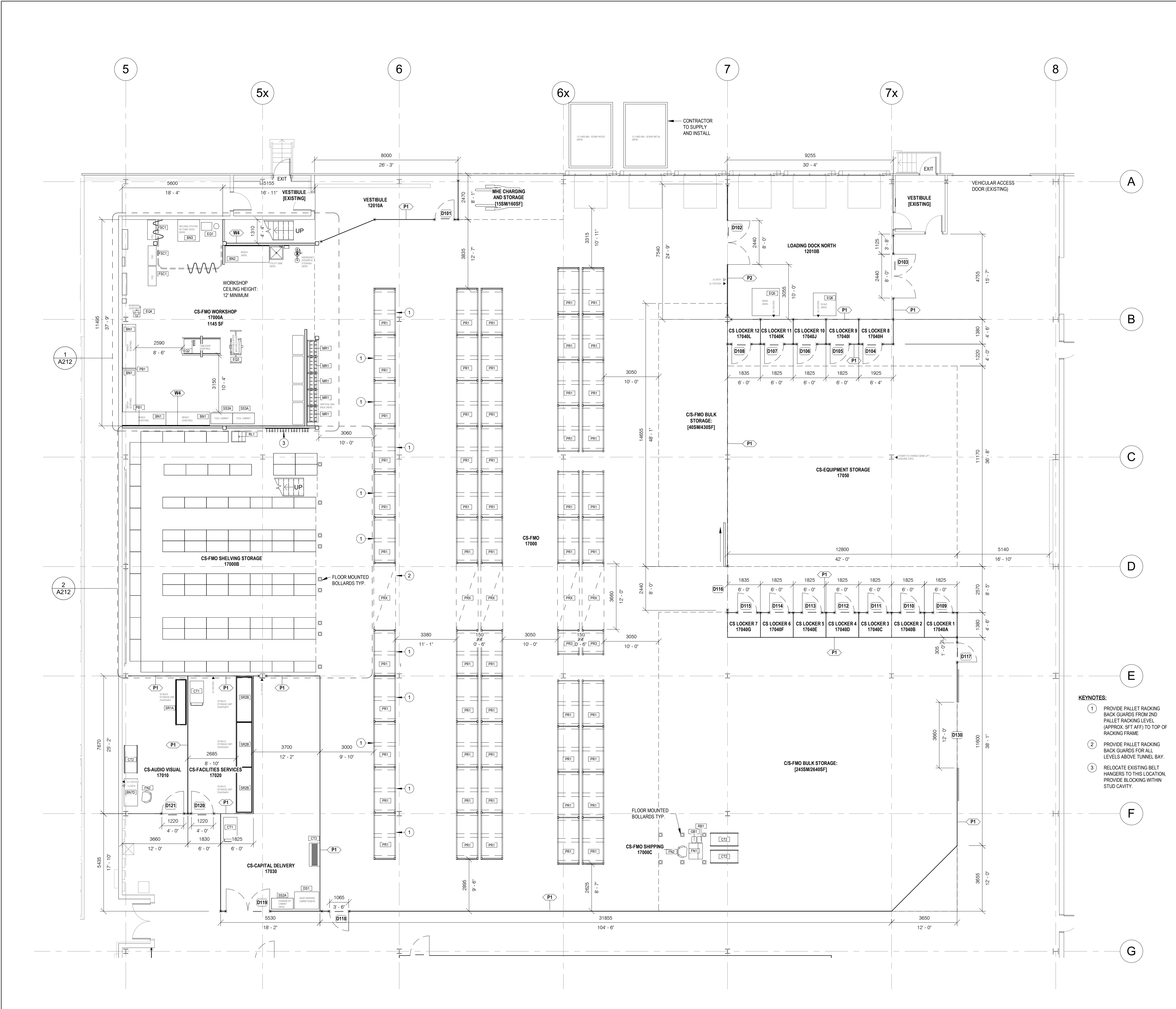
PROJECT NO.

DRAWING NO.

A203

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
CPS	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
FR	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
ONC	ON CENTRE
CWSJ	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

**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#	PEGBBOARD-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 #

**KEYNOTES:**

1. PROVIDE PALLET RACKING BACK GUARDS FROM 2ND PALLET RACKING LEVEL (APPROX. SFT AFF) TO TOP OF RACKING FRAME
2. PROVIDE PALLET RACKING BACK GUARDS FOR ALL LEVELS ABOVE TUNNEL BAY.
3. RELOCATE EXISTING BELT HANGERS TO THIS LOCATION, PROVIDE BLOCKING WITHIN STUD CAVITY.

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

**REVISIONS**

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS WITH SITE CONDITIONS, PRIOR TO THE WORK AND NOTIFY THE ARCHITECT OF DIFFERENCES. AVOID CLARIFICATION BEFORE CONTINUING.

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CLIENT:



ARCHITECT:



MECHANICAL & ELECTRICAL ENGINEERING:



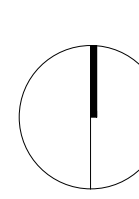
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



**CORPORATE SERVICES OVERALL PLAN**

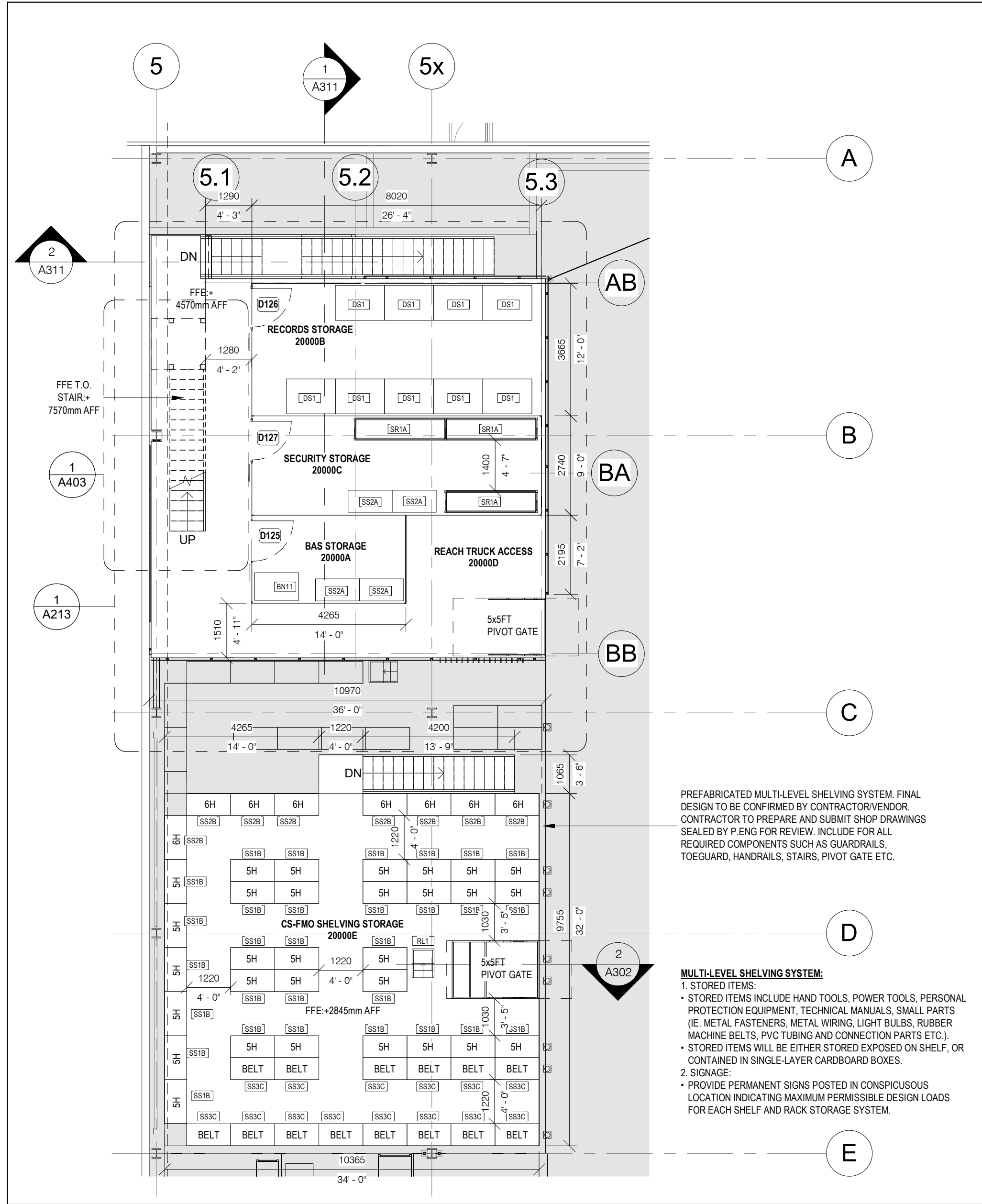
ENTERED: L.T.  
CHECKED: D.C.  
DATE: SEP.2024  
PROJECT NO.

DRAWING NO.

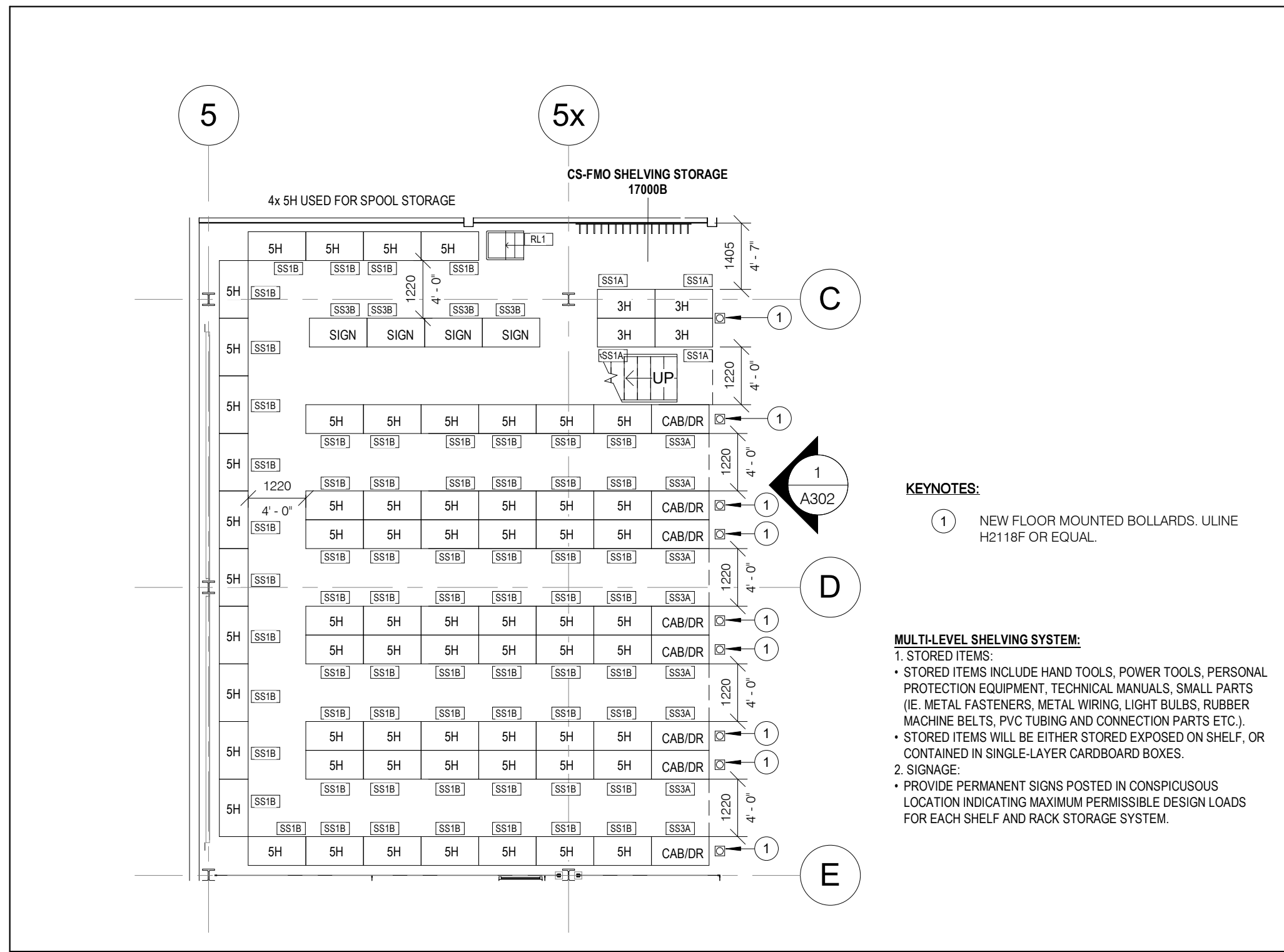
A211

22-136

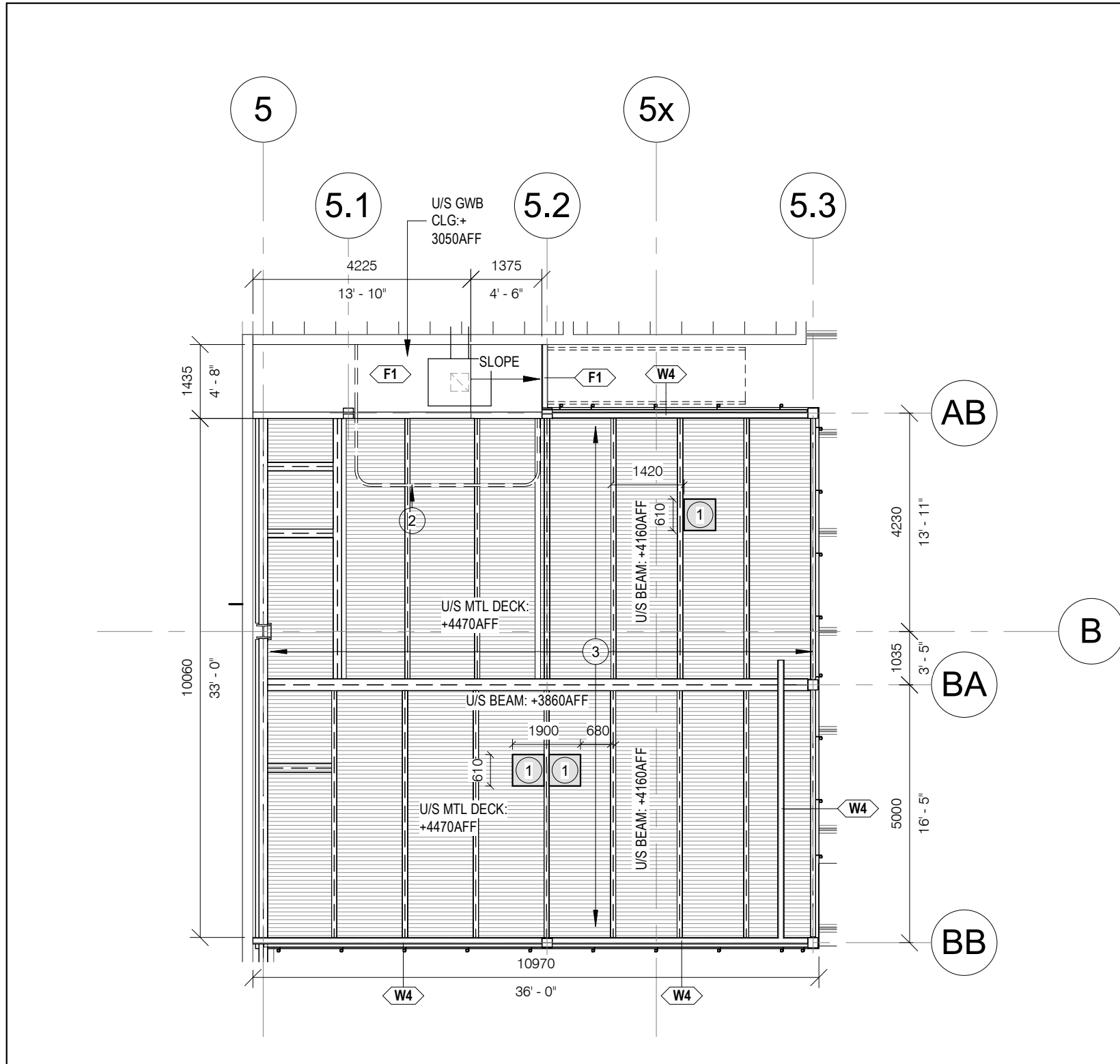




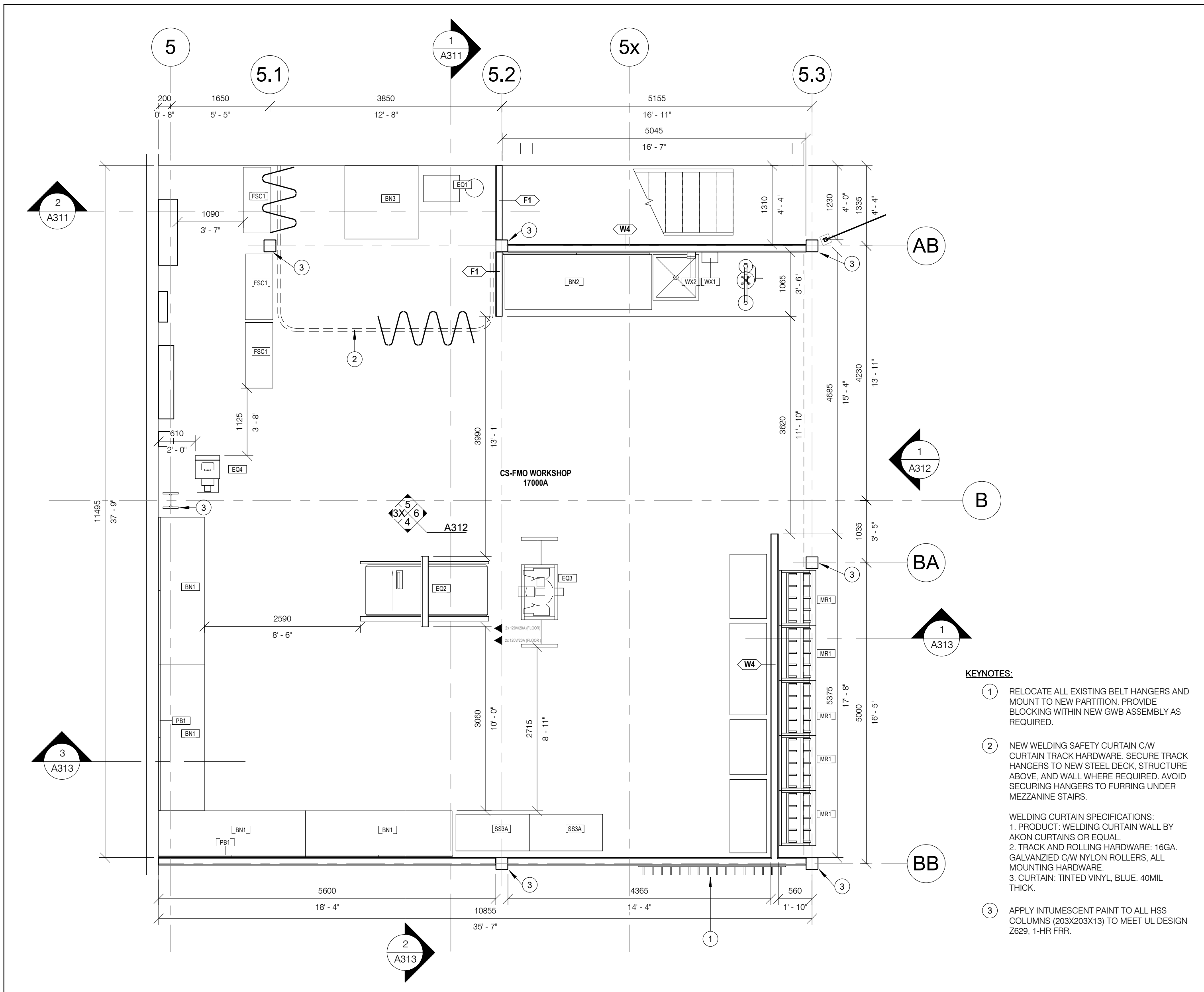
3 CS-FMO MULTI-LEVEL SHELVING SYSTEM LEVEL 2 AND CS STORAGE MEZZANINE PROPOSED PLAN  
A212 1 : 100



2 CS-FMO MULTI-LEVEL SHELVING SYSTEM PROPOSED GROUND PLAN  
A212 1 : 100



4 CS-FMO WORKSHOP RCP  
A212 1 : 100



1 CS-FMO WORKSHOP ENLARGED PLAN  
A212 1 : 50

KEYNOTES:

- CORD REEL/ AIR HOSE REEL MOUNTING: PROVIDE MIN. 16GA THICK GALV STEEL SHEET FASTENED TO METAL ROOF DECK. COORDINATE W/ OWNER AND ELECTRICAL CONSULTANT REGARDING FINAL LOCATION OF CORD REEL AND AIR HOSE REELS.
- NEW WELDING SAFETY CURTAIN C/W TRACK AND MOUNTING HARDWARE.
- APPLY INTUMESCENT PAINT TO METAL DECK AND ALL STEEL BEAM STRUCTURE TO COMPLY WITH UL DESIGN NO D948, 1-HR FRR.

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
GWLB	GYPSUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
OCB	ONTARIO BUILDING CODE
OC	ON CENTRE
CWSJ	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

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#	PEGBBOARD-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 #

KEYNOTES:

- RELOCATE ALL EXISTING BELT HANGERS AND MOUNT TO NEW PARTITION. PROVIDE BLOCKING WITHIN NEW GWB ASSEMBLY AS REQUIRED.
  - NEW WELDING SAFETY CURTAIN C/W CURTAIN TRACK HARDWARE. SECURE TRACK HANGERS TO NEW STEEL DECK STRUCTURE ABOVE, AND WALL WHERE REQUIRED. AVOID SECURING HANGERS TO FURRING UNDER MEZZANINE STAIRS.
- WELDING CURTAIN SPECIFICATIONS:
- PRODUCT: WELDING CURTAIN WALL BY AKON CURTAINS OR EQUAL.
  - TRACK AND ROLLING HARDWARE: 16GA GALVANIZED C/W NYLON ROLLERS, ALL MOUNTING HARDWARE.
  - CURTAIN: TINTED VINYL, BLUE, 40MIL THICK.
- APPLY INTUMESCENT PAINT TO ALL HSS COLUMNS (203X203X13) TO MEET UL DESIGN 2629, 1-HR FRR.

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:



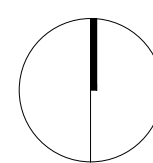
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



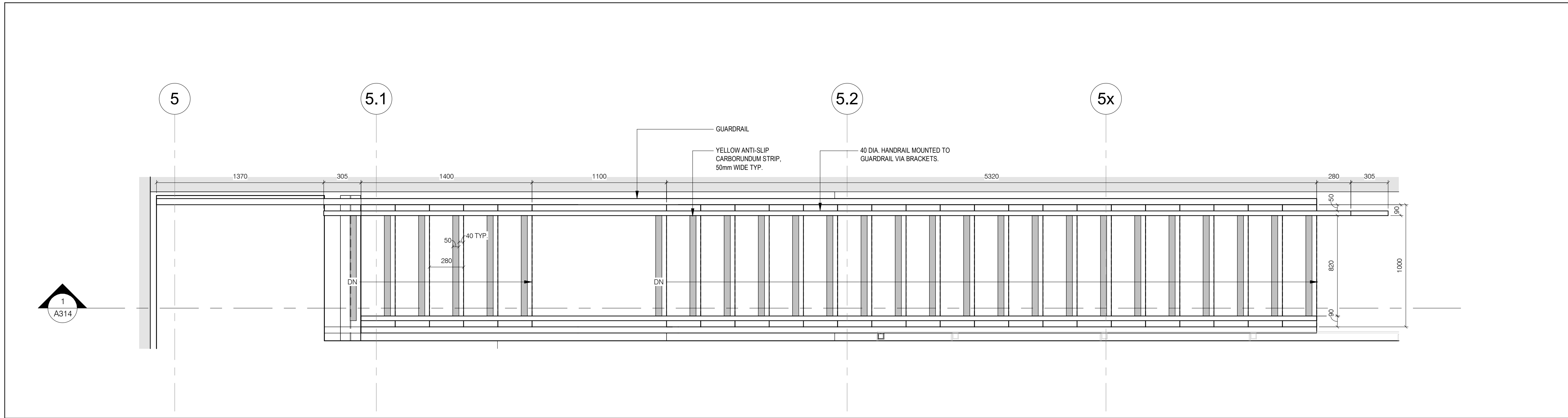
**CS-FMO WORKSHOP PLANS,  
STORAGE MEZZANINE PLAN,  
MULTI-LEVEL SHELVING SYSTEM  
PLANS**

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

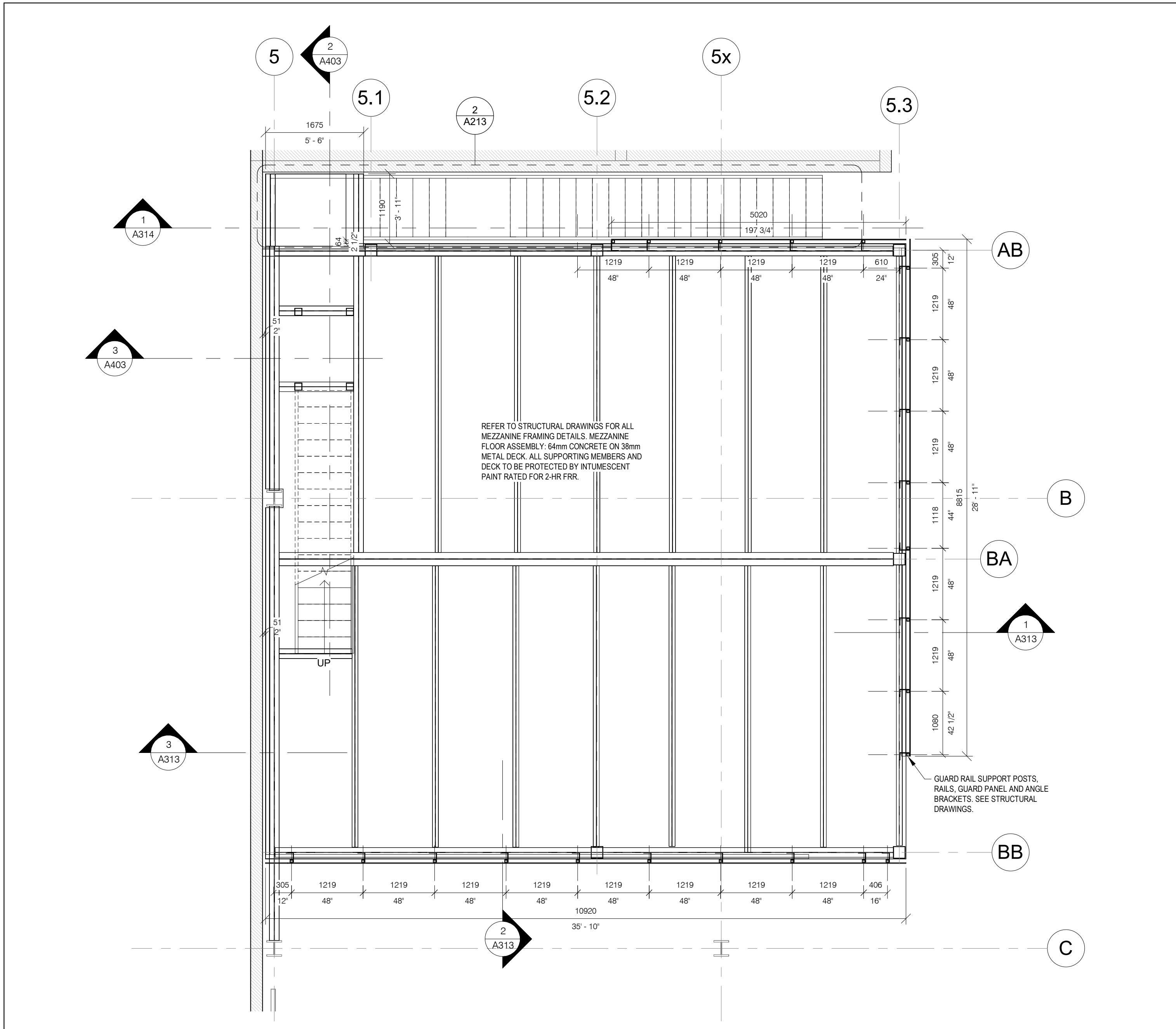
DRAWING NO.

**A212**





2 CS STORAGE MEZZANINE STAIR PLAN DETAIL  
A213 1 : 20



1 CS STORAGE MEZZANINE FRAMING PLAN  
A213 1 : 50

**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  
UIS UNDERSIDE  
W/ WITH  
W/C WATER CLOSET

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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CLIENT:

**York Region**

ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:

**QUASAR**  
CONSULTING GROUP

STRUCTURAL ENGINEERING:

**HONEYCOMB**

**HWP WAREHOUSE**  
UPGRADE

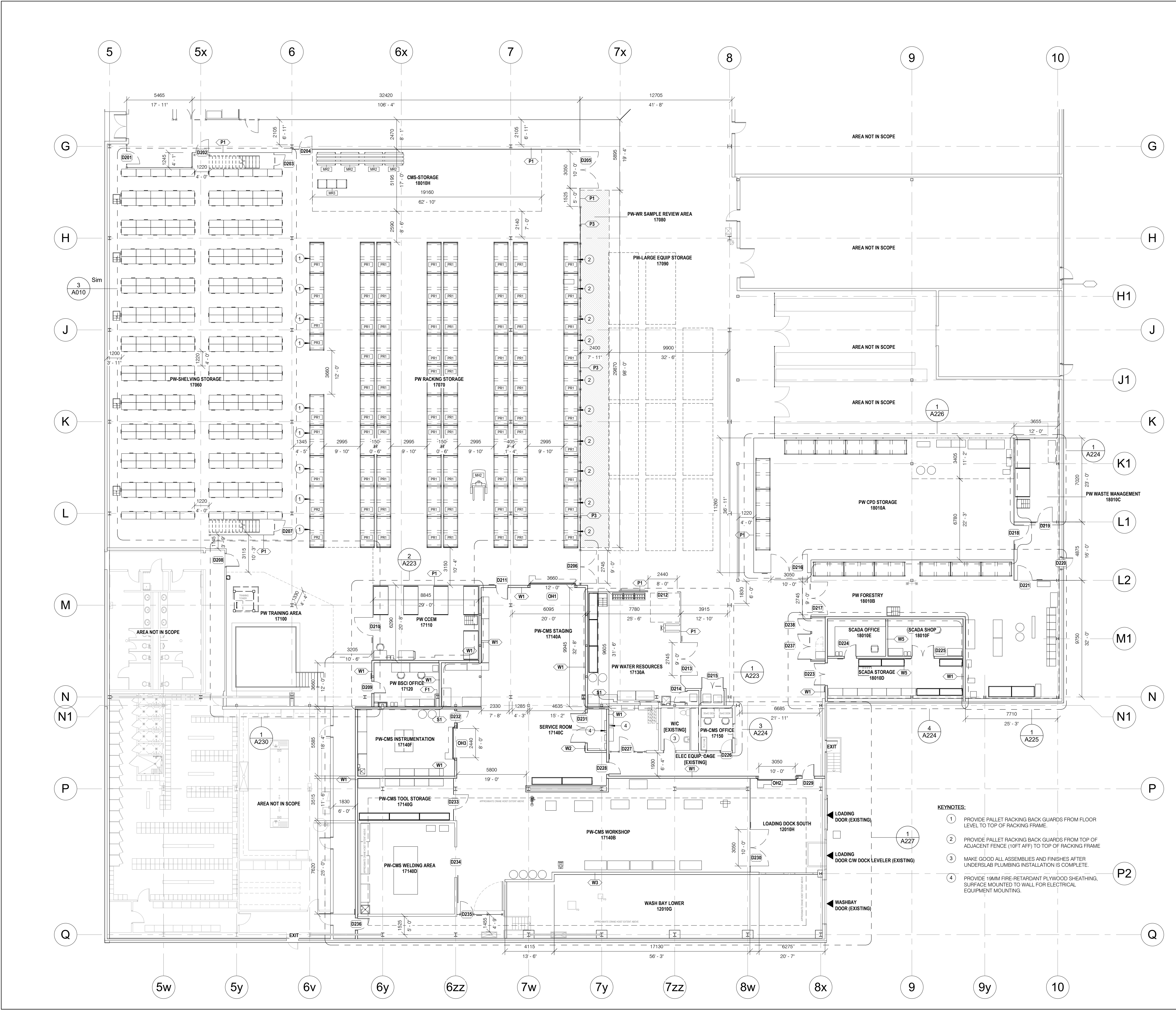
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

**CS-FMO MEZZANINE DETAIL**  
PLANS

ENTERED: L.T.	DRAWING NO.
CHECKED: D.C.	A213
DATE: SEP.2024	
PROJECT NO.	
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.

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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	
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FD	FLOOR DRAIN	
FIN	FINISH	
FR	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	
OC	ON CENTRE	
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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 #
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FSC#	FIRE SAFETY CABINET-TYPE #
LK#	LOCKER-TYPE #
MH#	MATERIALS HANDLING EQUIPMENT-TYPE#
MR#	MATERIALS STORAGE RACK-TYPE #
PB#	PEGBBOARD-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 #

- KEYNOTES:**
- 1 PROVIDE PALLET RACKING BACK GUARDS FROM FLOOR LEVEL TO TOP OF RACKING FRAME.
  - 2 PROVIDE PALLET RACKING BACK GUARDS FROM TOP OF ADJACENT FENCE (10FT AFF) TO TOP OF RACKING FRAME
  - 3 MAKE GOOD ALL ASSEMBLIES AND FINISHES AFTER UNDERSLAB PLUMBING INSTALLATION IS COMPLETE.
  - 4 PROVIDE 19MM FIRE-RETARDANT PLYWOOD SHEATHING, SURFACE MOUNTED TO WALL FOR ELECTRICAL EQUIPMENT MOUNTING.

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

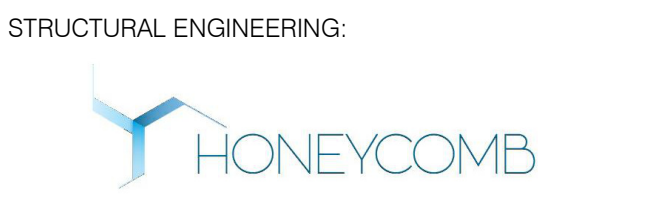
**REVISIONS**

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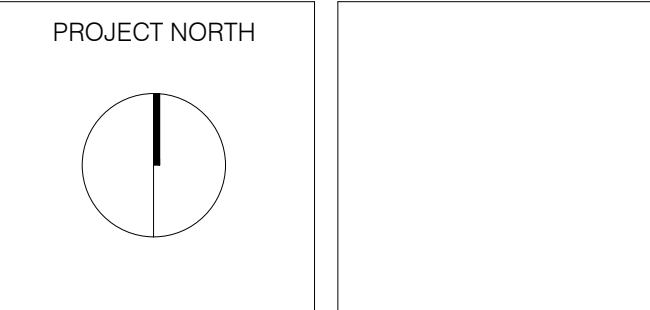
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**HWP WAREHOUSE UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



**PUBLIC WORKS OVERALL PROPOSED PLAN**

ENTERED: LT.	DRAWING NO.
CHECKED: D.C.	A221
DATE: SEP.2024	
PROJECT NO.	



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:



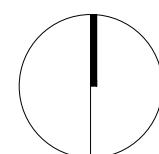
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



## PUBLIC WORKS PROPOSED REFLECTED CEILING PLAN

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

22-136

DRAWING NO.

A222

### 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.

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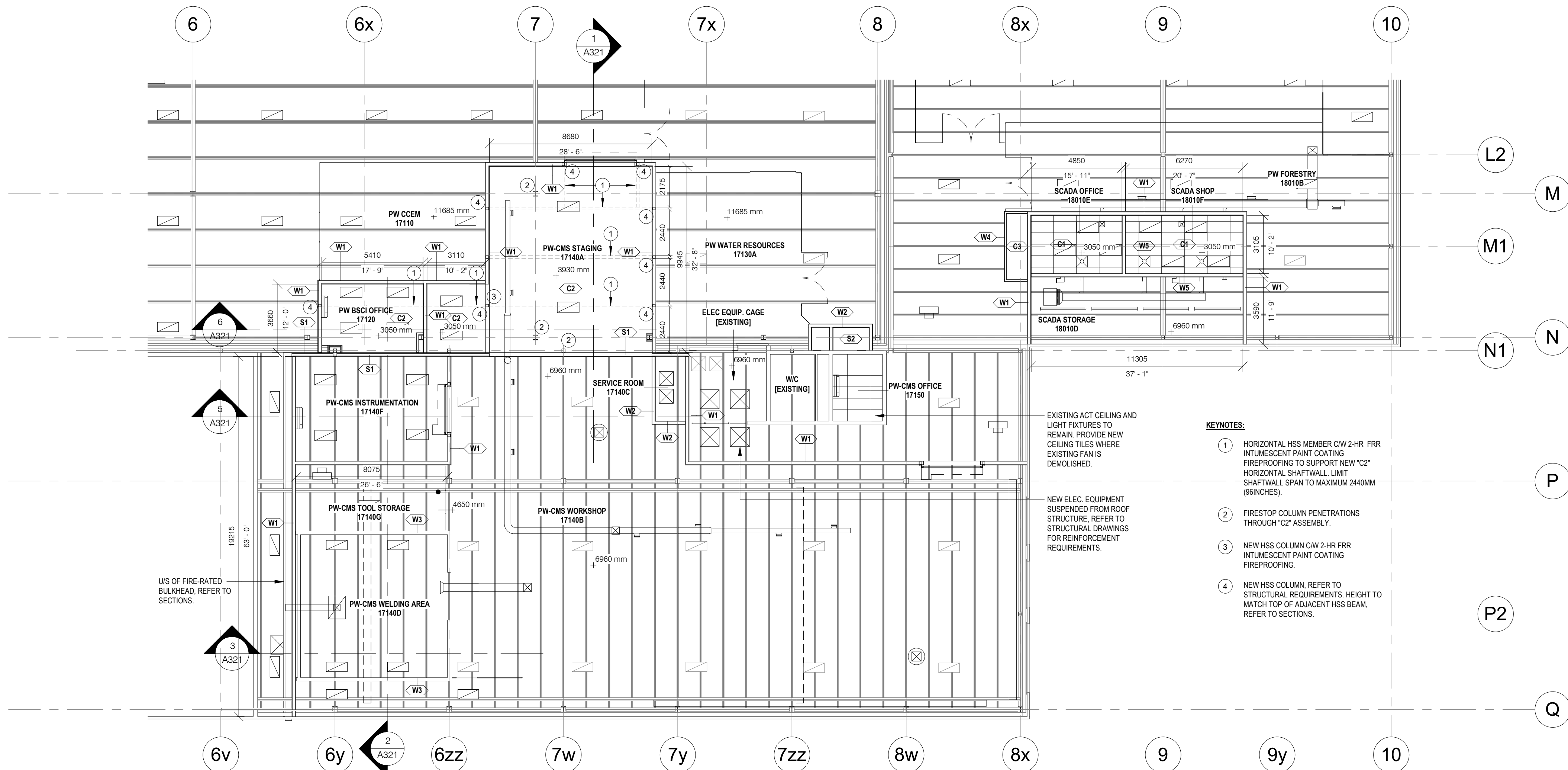
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### ABBREVIATIONS

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AFF	ABOVE FINISH FLOOR
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BLK	BLOCK
CB	CATCH BASIN
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CLG	CEILING
CLR	CLEAR
CW	COMPLETE WITH
CONC	CONCRETE
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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

### RCP LEGEND

	POT LIGHT FIXTURE
	LINEAR LIGHT FIXTURE
	2X4 LIGHT FIXTURE
	HVAC LINEAR DIFFUSER
	HVAC DIFFUSER
	ACCESS PANEL



### KEYNOTES:

- HORIZONTAL HSS MEMBER C/W 2-HR FRR INTUMESCENT PAINT COATING FIREPROOFING TO SUPPORT NEW "C2" HORIZONTAL SHAFTWALL. LIMIT SHAFTWALL SPAN TO MAXIMUM 2440MM (96 INCHES).
- FIRESTOP COLUMN PENETRATIONS THROUGH "C2" ASSEMBLY.
- NEW HSS COLUMN C/W 2-HR FRR INTUMESCENT PAINT COATING FIREPROOFING.
- NEW HSS COLUMN. REFER TO STRUCTURAL REQUIREMENTS. HEIGHT TO MATCH TOP OF ADJACENT HSS BEAM. REFER TO SECTIONS.

EXISTING ACT CEILING AND LIGHT FIXTURES TO REMAIN. PROVIDE NEW CEILING TILES WHERE EXISTING FAN IS DEMOLISHED.

NEW ELEC. EQUIPMENT SUSPENDED FROM ROOF STRUCTURE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT REQUIREMENTS.



**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		
UIS	UNDERSIDE		
W/	WITH		
W/C	WATER CLOSET		

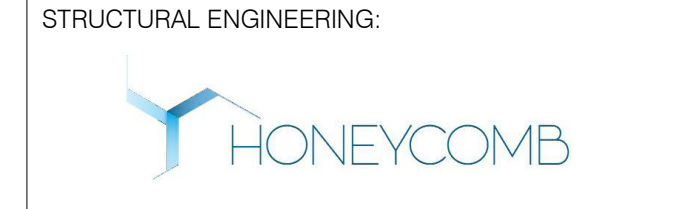
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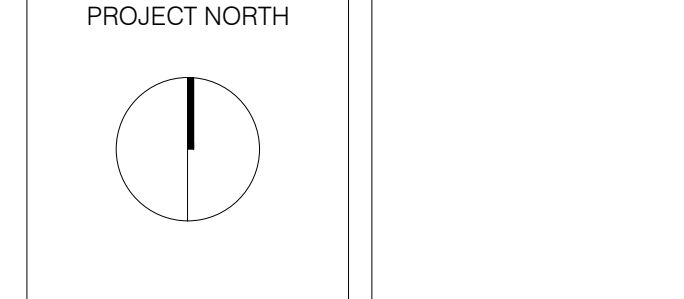
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**HWP WAREHOUSE  
UPGRADE**  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

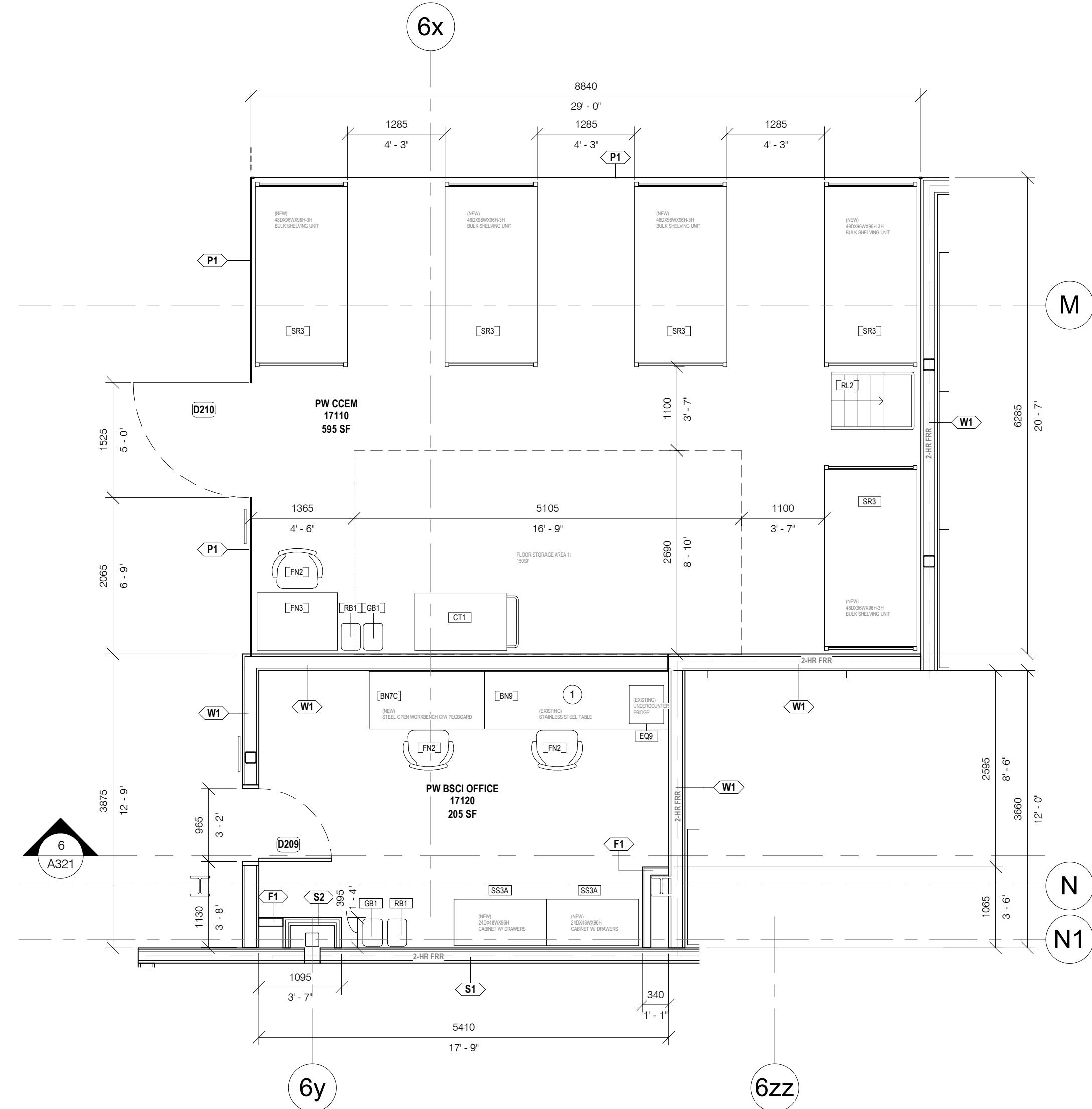


PW-WATER RESOURCES, CCEM,  
BSCI ENLARGED PLAN

ENTERED: LT.	DRAWING NO.  <b>A223</b>
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	
22-136	

**KEYNOTES:**

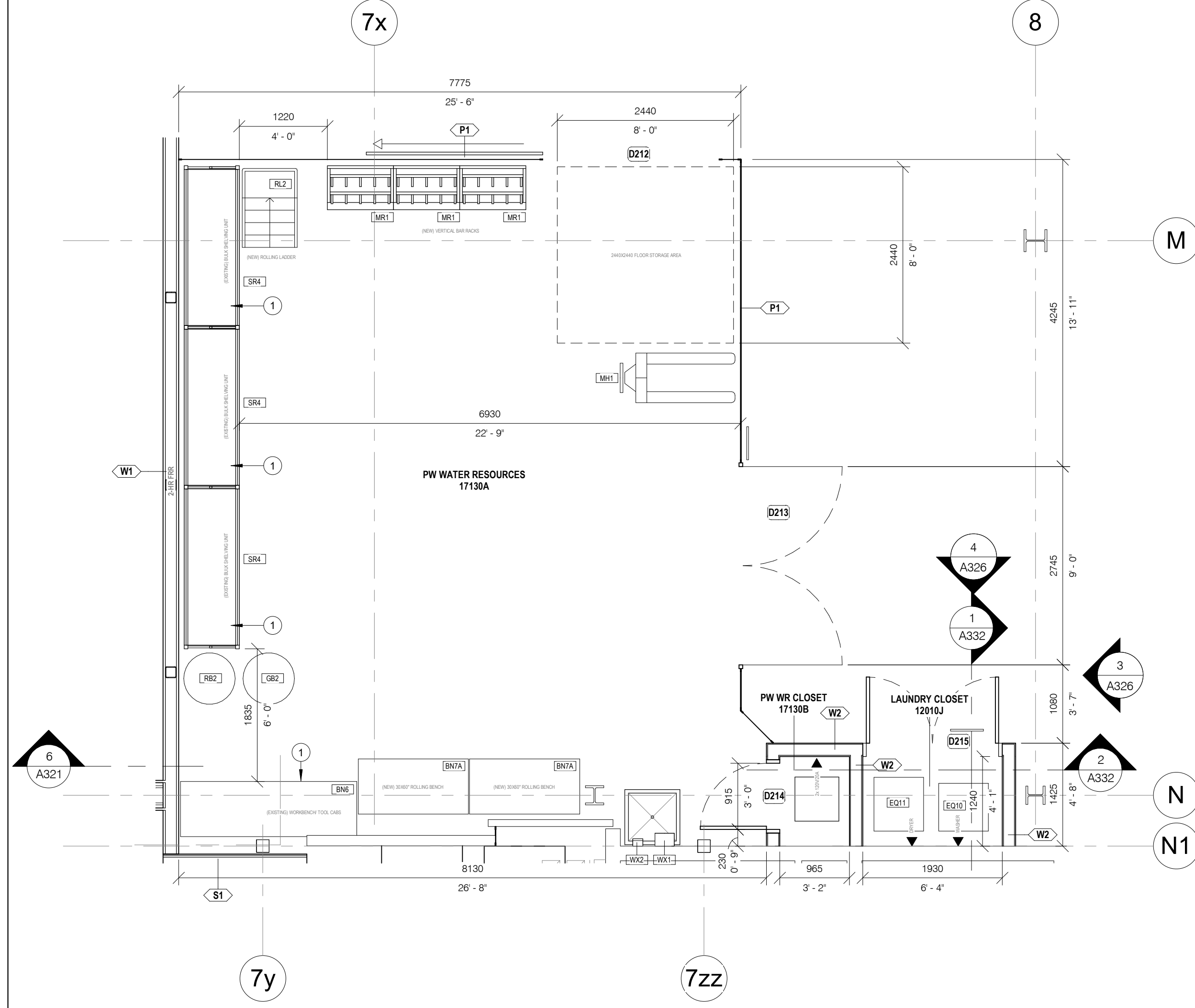
- 1 EXISTING FURNITURE/ EQUIPMENT. RELOCATE FROM EXISTING SPACE TO THIS NEW LOCATION. COORDINATE W/ OWNER REGARDING TIMING OF RELOCATION.



2 PROPOSED DETAIL PLAN-PW CCEM , PW OMM BSCI  
A223 1 : 50

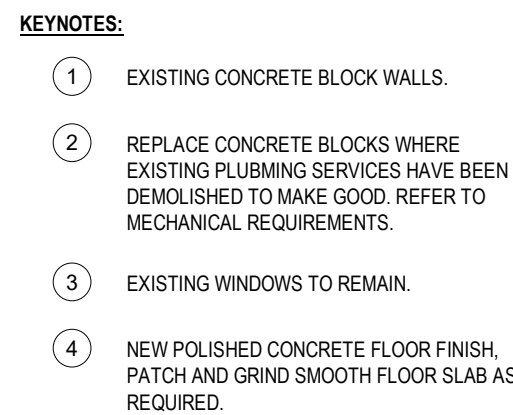
**KEYNOTES:**

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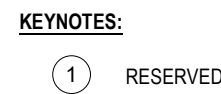


1 PROPOSED DETAIL PLAN-PW WATER RESOURCES  
A223 1 : 50





3 PROPOSED DETAIL PLAN-PW CMS OFFICE  
A224 1 : 50



1	PROPOSED DETAIL PLAN-PW WASTE MANAGEMENT
A224	1 : 50

E. ALL MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO APPLICABLE MECHANICAL & ELECTRICAL DRAWINGS FOR DETAIL REQUIREMENTS.

ACT	ACOUSTIC CEILING TILE
AF	AFTER FINISH FLOOR
BLK	BLACK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
CL	CENTRE LINE
CLG	CEILING
CWR	CLEAR
C/W	COMPLETE
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
EQ	EQUAL
EX	EXISTING
EXT	EXTERNAL
FD	FLOOR DRAIN
FIN	FINISH
FR	FIRE RESISTANCE RATING
FLR	FLOOR
GA	GAUGE
GALV	GALVANIZED
GW/B	GYPSUM WALL BOARD
HT	HEIGHT
HT	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
OC	ONCE OVER BUILDINGS CODE
OW/SJ	OPEN WEB STEEL JOIST
PLAM	PLASTIC LAMINATE
RD	RAIL
RD	ROOF DRAIN
RWL	RAINWATER LEADER
RS	ROOF TRANSMISSION CLASS
SPEC	SPECIFICATION
SS	STAINLESS STEEL
U/S	UNDERSIDE
W	WITH
W/C	WATER CLOSET

REVISIONS

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CLIENT



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC

MECHANICAL &amp; ELECTRICAL ENGINEERING

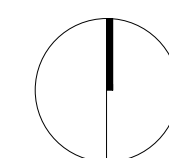


STRUCTURAL ENGINEERING:

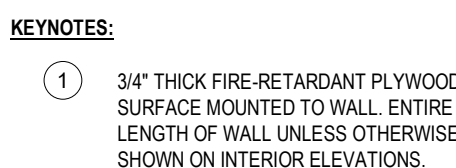


145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

PW WASTE MANAGEMENT , CMS  
OFFICE, SCADA ENLARGED  
PLAN

ENTERED: L.T.	DRAWING NO.  <b>A224</b>
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	

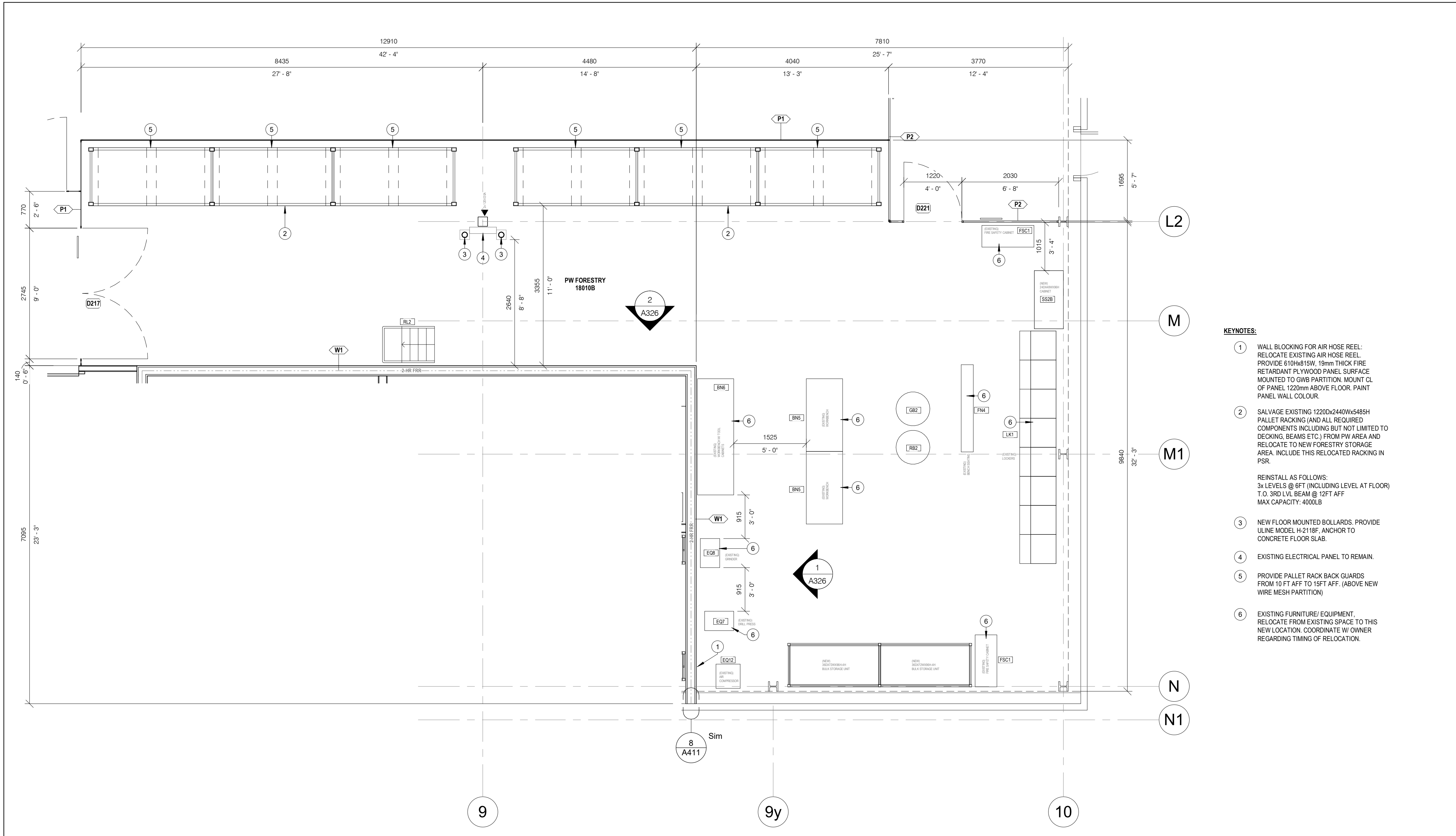


4 PROPOSED DETAIL PLAN-PW SCADA  
A224 1 : 50

**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 #
SRLX	SHELVING RACK-TYPE #-VARIANT X
SS#X	SHELVING STORAGE UNIT-TYPE #-VARIANT X
WB1#	WASH BINS-TYPE #
WX#	WASHROOM ACCESSORIES-TYPE #





1 PROPOSED DETAIL PLAN-PW FORESTRY WORKSHOP  
A225 1 : 50

**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
GWB	GYPSUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
OCB	ONTARIO BUILDING CODE
OC	ON CENTRE
CWSJ	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

**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
WB#	WASTE BINS-TYPE #
WX#	WASHROOM ACCESSORIES-TYPE #

**KEYNOTES:**

- WALL BLOCKING FOR AIR HOSE REEL: RELOCATE EXISTING AIR HOSE REEL. PROVIDE 5/16x615W, 15mm THICK FIRE RETARDANT PLYWOOD PANEL SURFACE MOUNTED TO GWB PARTITION. MOUNT CL OF PANEL 1220mm ABOVE FLOOR. PAINT PANEL WALL COLOUR.
- SALVAGE EXISTING 1220Dx2440Wx5485H PALLET RACKING (AND ALL REQUIRED COMPONENTS INCLUDING BUT NOT LIMITED TO DECKING, BEAMS ETC.) FROM PW AREA AND RELOCATE TO NEW FORESTRY STORAGE AREA. INCLUDE THIS RELOCATED RACKING IN PSR.
- REINSTALL AS FOLLOWS:  
3x LEVELS @ 6FT (INCLUDING LEVEL AT FLOOR)  
T.O. 3RD LVL BEAM @ 12FT AFF  
MAX CAPACITY: 4000LB
- NEW FLOOR MOUNTED BOLLARDS: PROVIDE ULINE MODEL H-2118F, ANCHOR TO CONCRETE FLOOR SLAB.
- EXISTING ELECTRICAL PANEL TO REMAIN.
- PROVIDE PALLET RACK BACK GUARDS FROM 10 FT AFF TO 15FT AFF. (ABOVE NEW WIRE MESH PARTITION)
- EXISTING FURNITURE/ EQUIPMENT. RELOCATE FROM EXISTING SPACE TO THIS NEW LOCATION. COORDINATE W/ OWNER REGARDING TIMING OF RELOCATION.

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**REVISIONS**

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



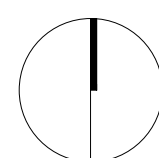
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



**PW-FORESTRY ENLARGED PLAN**

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

DRAWING NO.

**A225**

22-136



- 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 REMOVE TEMPORARY REMOVAL AND REINSTALLATION OF ARCHITECTURAL COMPONENTS TO FACILITATE MECHANICAL & ELECTRICAL WORK.
- C. COORDINATE W/ OWNERS TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY W/ 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.

ACT ACOUSTIC CEILING TILE  
 AFF ABOVE FINISH FLOOR  
 AL ALUMINUM  
 BLK BLACK  
 CB CATCH BASIN  
 CFS COIL 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  
 FRBR 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 ON ORIO BUILDING CODE  
 ON ON CENTRE  
 OWSJ OPEN WEB STEEL JOIST  
 PLAM PLASTIC LAMINATE  
 PC POLYCARBONATE  
 RD ROAD DRAIN  
 RWL RAWWATER LEADER  
 SCS SILENT TRANSMISSION CLASS  
 SPEC SPECIFICATION  
 SS STAINLESS STEEL  
 U/S UNDERSIDE  
 W WITH  
 W/C WATER CLOSET

\*NOTE: REFERENCE 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 #
MR#	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 #

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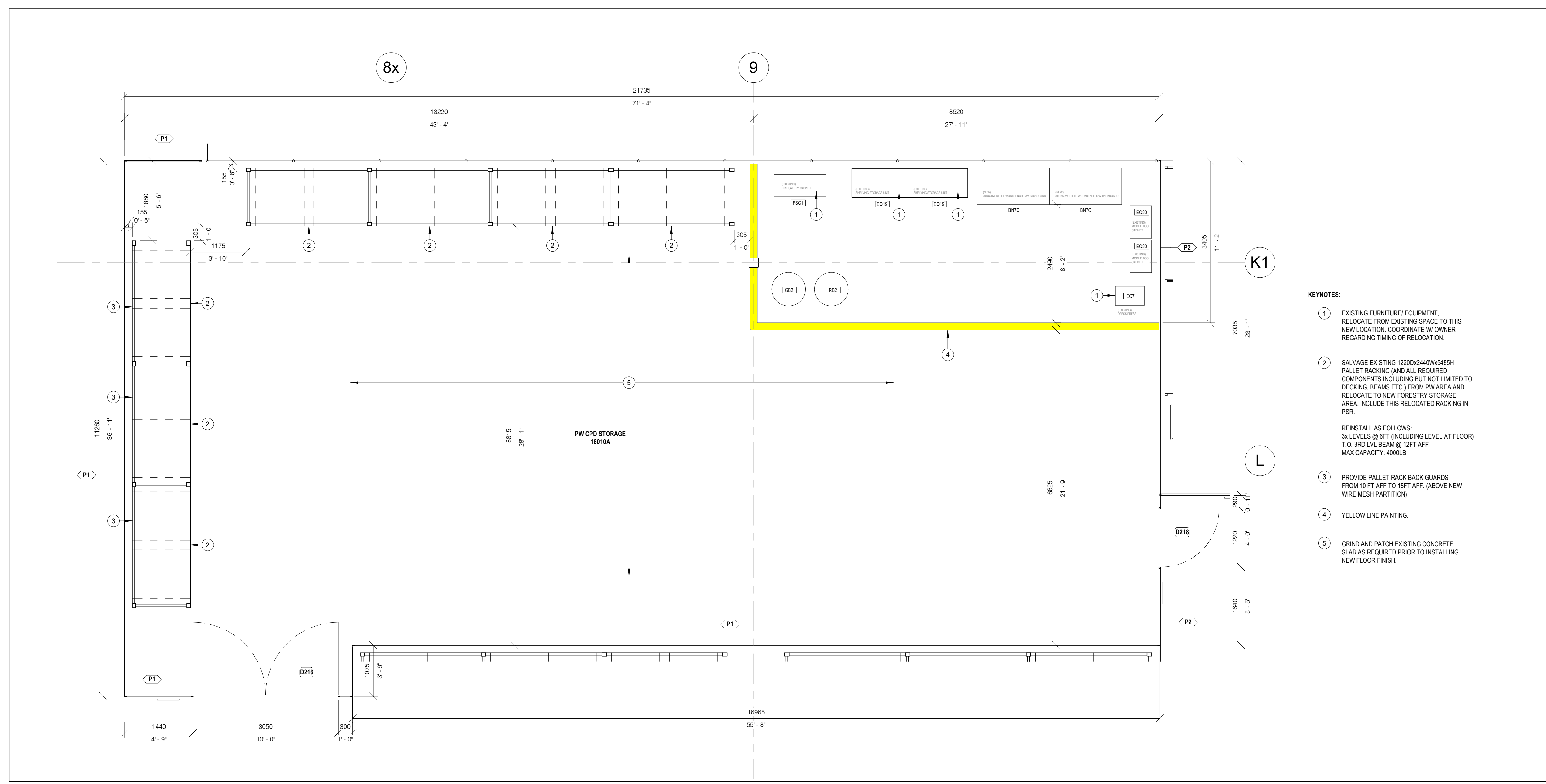
MECHANICAL & ELECTRICAL ENGINEERING:

 **QUASAR**  
CONSULTING GROUP

**HWP WAREHOUSE**  
UPGRADE  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

ENTERED: L.T.	DRAWING NO.  <b>A226</b>
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	



**KEYNOTES:**

1. EXISTING FURNITURE/ EQUIPMENT,  
REMOVED FROM EXISTING SPACE TO THIS  
NEW LOCATION. COORDINATE W/ OWNER  
REGARDING TIMING OF RELOCATION.
2. SALVAGE EXISTING 1220Dx2440Wx548SH  
PALLET RACKING (AND ALL REQUIRED  
COMPONENTS INCLUDING BUT NOT LIMITED TO  
DECKING, BEAMS ETC) FROM PW AREA AND  
RELOCATE TO NEW FORESTRY STORAGE  
AREA. INCLUDE THIS RELOCATED RACKING IN  
PDR.
- RENTAL AS FOLLOWS:  
LEVELS 6 & 6T (INCLUDING LEVEL AT FLOOR)  
T.O. 3RD LVL BEAM @ 12FT AFF  
MAX CAPACITY: 4000LB
3. PROVIDE PALLET RACK BACK GUARDS  
FROM 10 FT AFF TO 15FT AFF. (ABOVE NEW  
WIRE MESH PARTITION)
4. YELLOW LINE PAINTING.
5. GRIND AND PATCH EXISTING CONCRETE  
SLAB AS REQUIRED PRIOR TO INSTALLING  
NEW FLOOR FINISH.



**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.

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C. COORDINATE W/ OWNER'S TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY WORK STANDARDS.

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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  
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  
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GWB GYPSUM WALL BOARD  
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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

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:



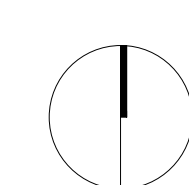
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE  
UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



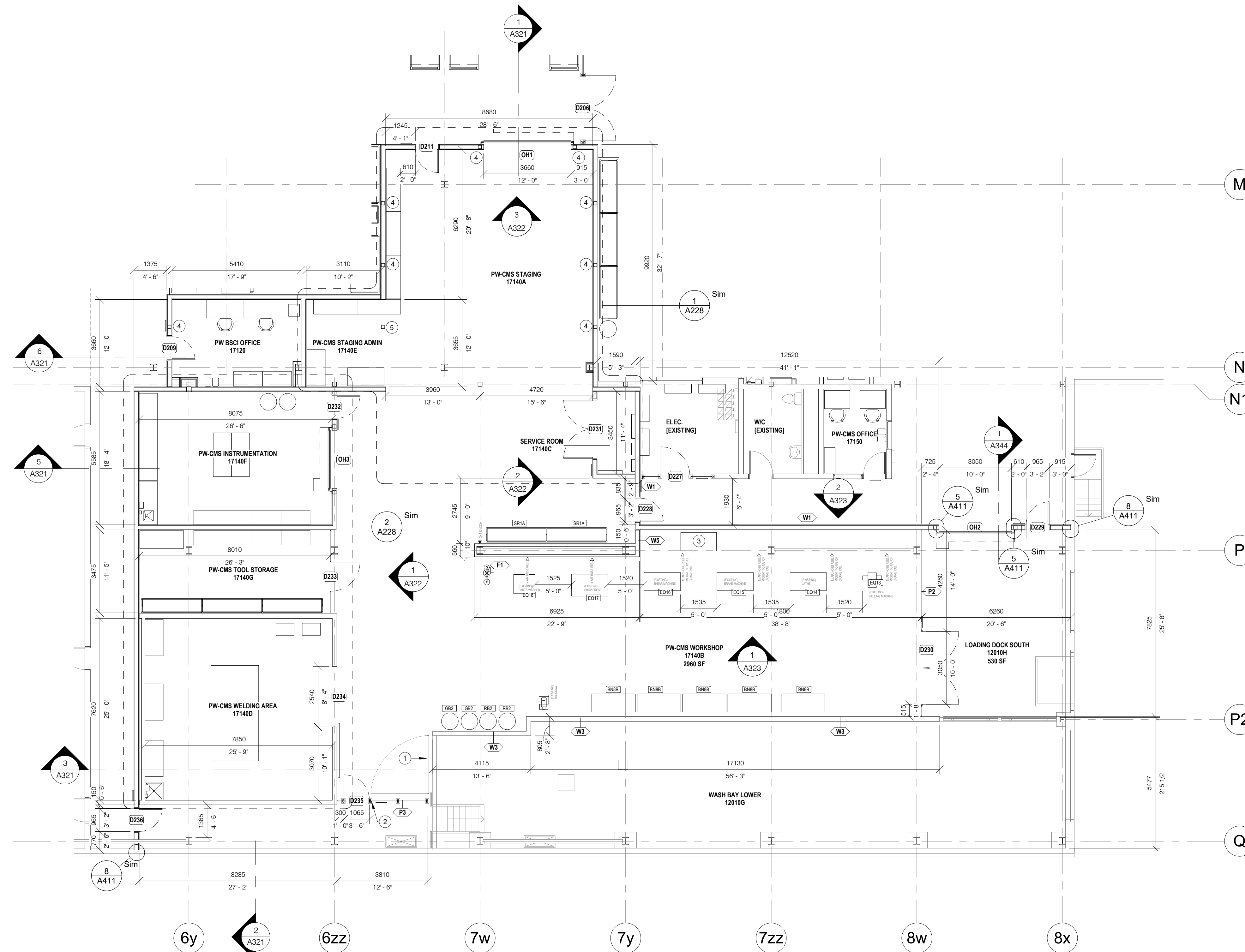
**PW-CMS WORKSHOP PLAN**

ENTERED: L.T.  
CHECKED: D.C.  
DATE: SEP.2024  
PROJECT NO.

DRAWING NO.

**A227**

22-136



**KEYNOTES:**

1. PROVIDE DOCK SAFETY GATE, ULINE MODEL H-7614, 2440mm WIDE.
2. PROVIDE CUSTOM STEEL CARD READER MOUNTING BOX.
  - SIZE: 6"Wx6"Hx4"D
  - WELDED TO PARTITION FRAME 2x4" HSS POST.
  - BACK PLATE SECURED VIA SCREWS FOR MAINTENANCE ACCESS.
  - PROVIDE NOTCH IN WIRE MESH PANEL TO SUIT BOX.
  - PAINT BOX TO MATCH PARTITION COLOUR.
  - HEIGHT: TO SUIT CARD READER MOUNTING HEIGHT.
  - SEE DOOR ELEVATION.
3. NEW AIR COMPRESSOR, REFER TO MECHANICAL REQUIREMENTS. PROVIDE 100MM (4") HIGH CONCRETE HOUSEKEEPING PAD TO SUIT.
4. NEW STRUCTURAL COLUMN STEEL FRAMING, REFER TO STRUCTURAL DRAWINGS. INCLUDE FOR REMOVAL OF EXISTING CONCRETE SLAB AND CONSTRUCTION OF NEW COLUMN FOOTINGS AS PER STRUCTURAL REQUIREMENTS. MAKE GOOD EXISTING SLAB AS REQUIRED. COLUMN TO BE COMPLETELY ENCLOSED BY FIRE SEPARATION GWS SHEATHING.
5. NEW STRUCTURAL COLUMN STEEL FRAMING, REFER TO STRUCTURAL DRAWINGS. INCLUDE FOR REMOVAL OF EXISTING CONCRETE SLAB AND CONSTRUCTION OF NEW COLUMN FOOTINGS AS PER STRUCTURAL REQUIREMENTS. MAKE GOOD EXISTING SLAB AS REQUIRED. APPLY 2-HRRFR INTUMESCENT PAINT TO COLUMN.

1  
A227 PW-CMS WORKSHOP OVERALL PLAN  
1 : 100





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  
FR 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  
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 #

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:



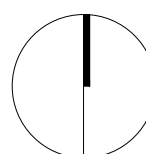
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



**PROPOSED PLANS-MULTI-LEVEL  
SHELVING SYSTEM-PUBLIC  
WORKS**

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

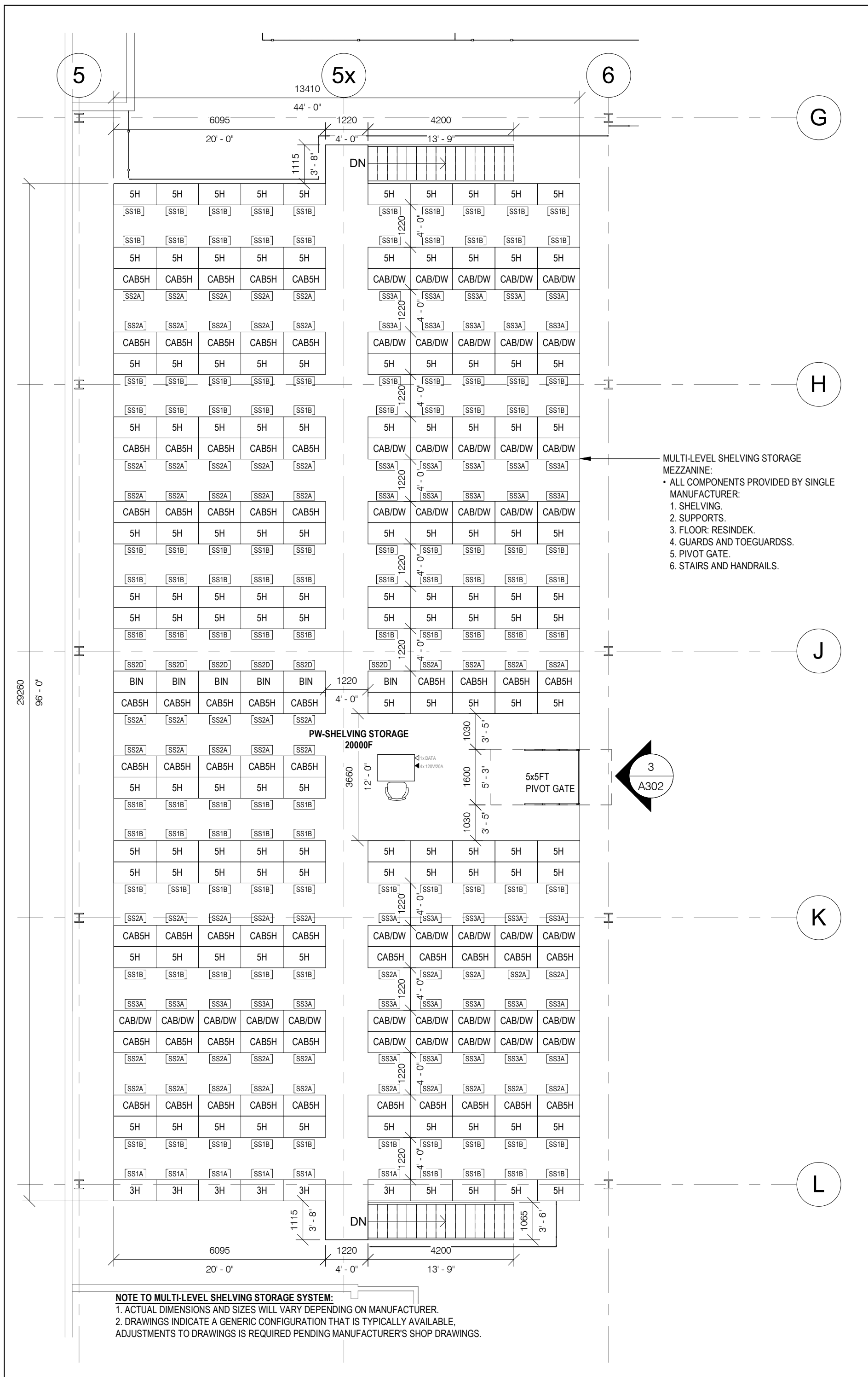
DRAWING NO.

**A229**

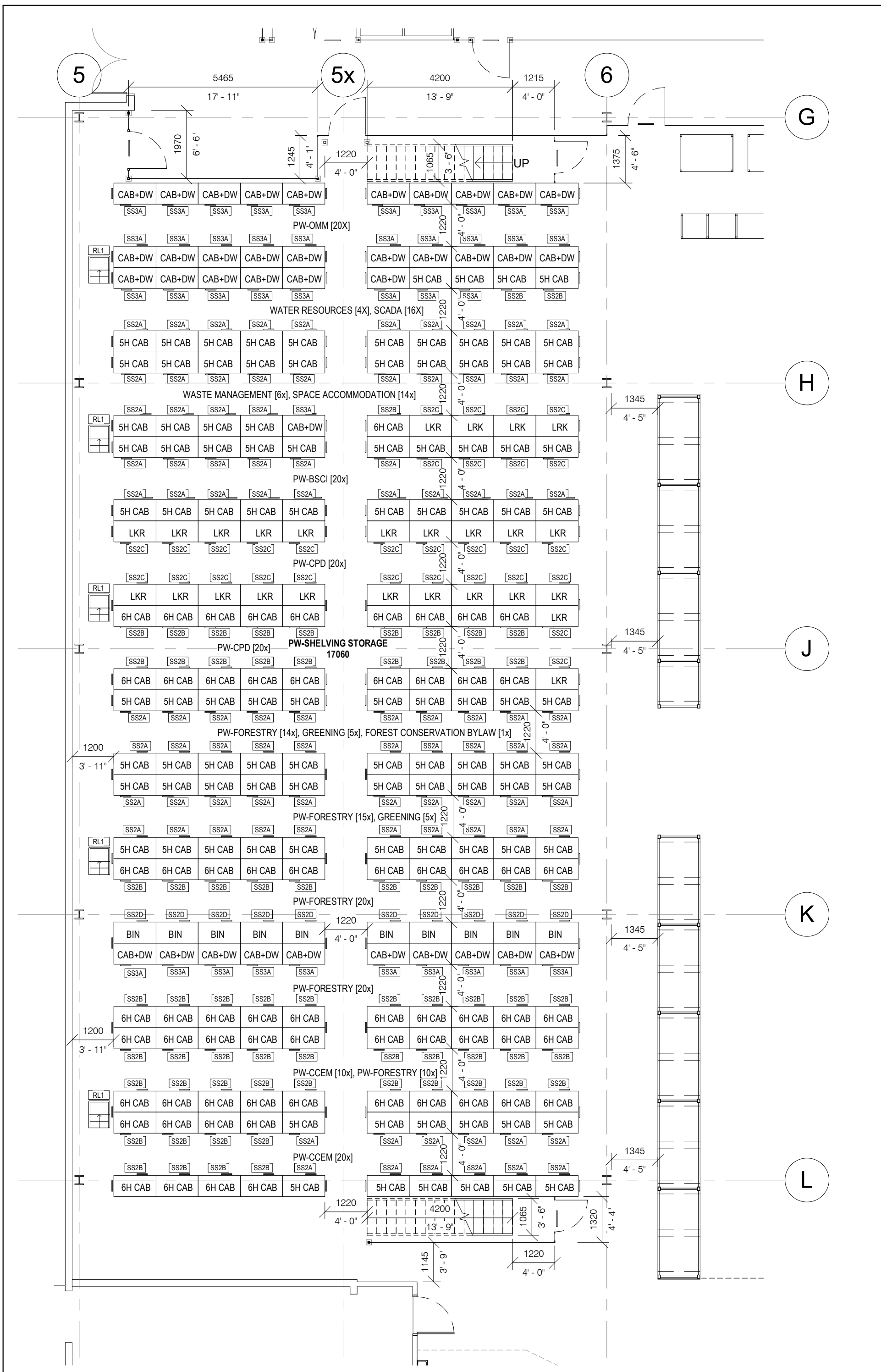
22-136

**MULTI-LEVEL SHELVING SYSTEM:**

1. STORED ITEMS:
- STORED ITEMS INCLUDE HAND TOOLS, POWER TOOLS, PERSONAL PROTECTION EQUIPMENT, TECHNICAL MANUALS, SMALL PARTS (IE. METAL FASTENERS, METAL WIRING, LIGHT BULBS, RUBBER MACHINE BELTS, PVC TUBING AND CONNECTION PARTS ETC.)
  - STORED ITEMS WILL BE EITHER STORED EXPOSED ON SHELF, OR CONTAINED IN SINGLE-LAYER CARDBOARD BOXES.
2. SIGNAGE:
- PROVIDE PERMANENT SIGNS POSTED IN CONSPICUOUS LOCATION INDICATING MAXIMUM PERMISSIBLE DESIGN LOADS FOR EACH SHELF AND RACK STORAGE SYSTEM.



2 PW MULTI-LEVEL SHELVING SYSTEM PROPOSED LEVEL 2  
A229 1 : 100



1 PW MULTI-LEVEL SHELVING SYSTEM PROPOSED LEVEL 1  
A229 1 : 100



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

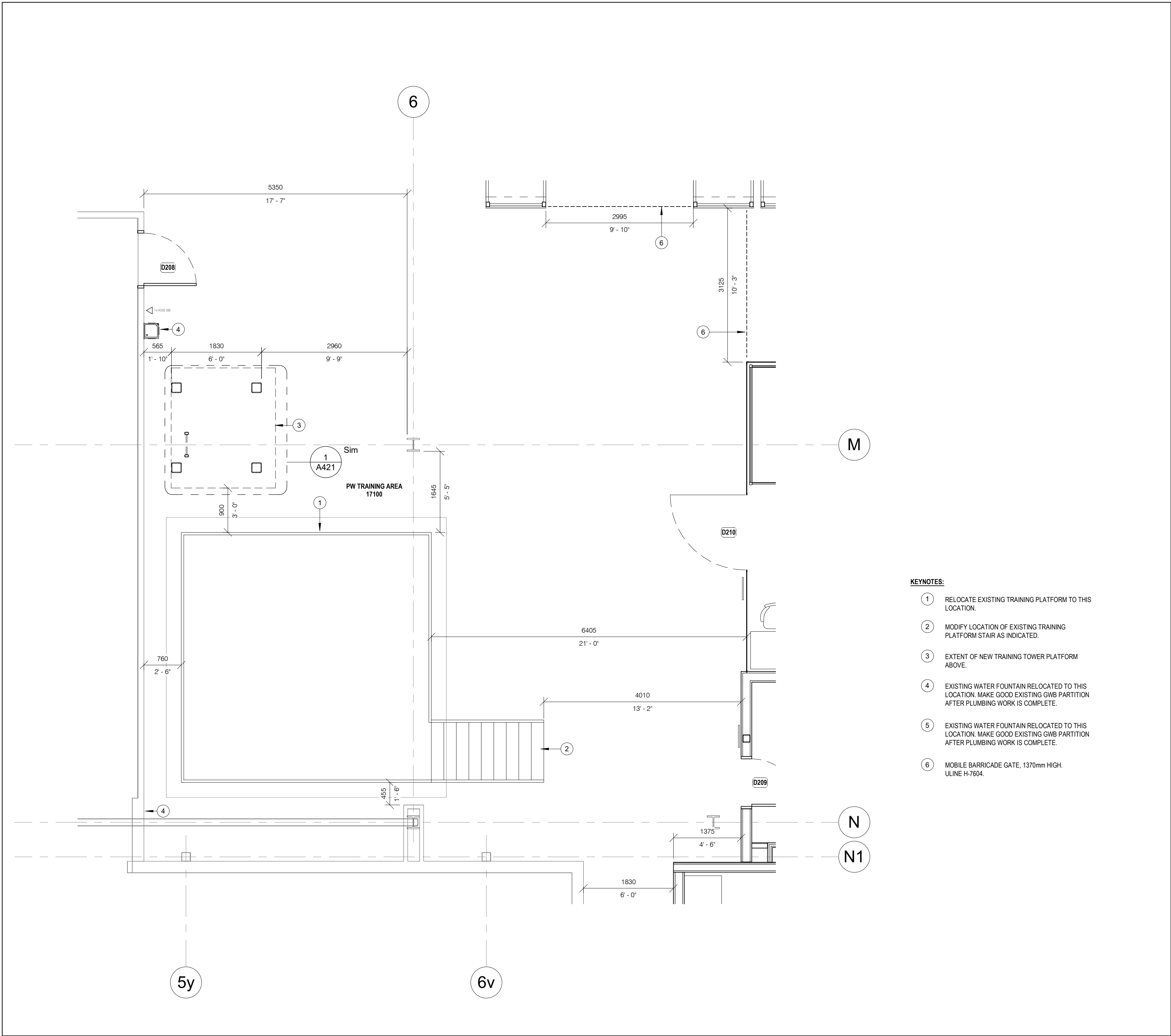
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
BLK	BLOCK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
CL	CENTRE LINE
CLG	CEILING
CLR	CLEAR
C/W	COMPLETE WITH
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
EQ	EQUAL
EX	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FIN	FINISH
FRR	FIRE RESISTANCE RATING
FLR	FLOOR
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

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 #

KEYNOTES:

- RELOCATE EXISTING TRAINING PLATFORM TO THIS LOCATION.
- MODIFY LOCATION OF EXISTING TRAINING PLATFORM STAIR AS INDICATED.
- EXTENT OF NEW TRAINING TOWER PLATFORM ABOVE.
- EXISTING WATER FOUNTAIN RELOCATED TO THIS LOCATION. MAKE GOOD EXISTING GWB PARTITION AFTER PLUMBING WORK IS COMPLETE.
- EXISTING WATER FOUNTAIN RELOCATED TO THIS LOCATION. MAKE GOOD EXISTING GWB PARTITION AFTER PLUMBING WORK IS COMPLETE.
- MOBILE BARRICADE GATE, 1370mm HIGH. ULINE H-7504.



1 PW-TRAINING AREA ENLARGED PLAN  
A230 1 : 50

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:



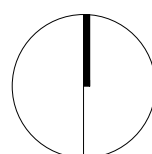
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PW-TRAINING AREA ENLARGED  
PLAN

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP 2024

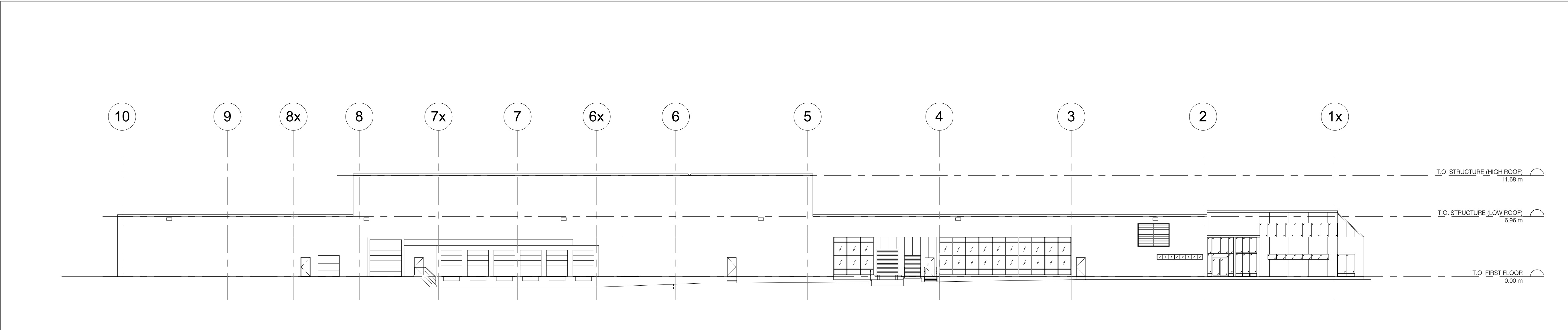
PROJECT NO.

DRAWING NO.

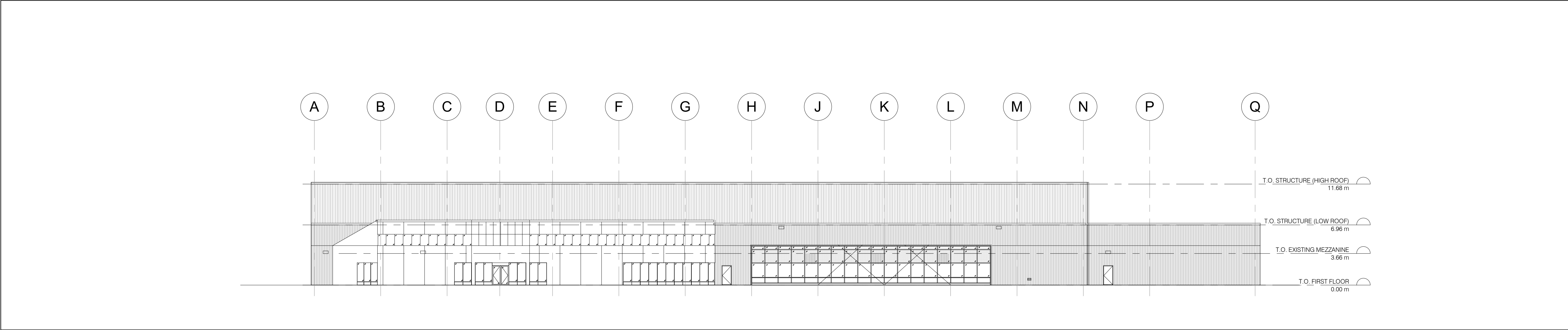
A230

22-136





2 NORTH ELEVATION (NO CHANGE PROPOSED)  
A301 1 : 250



1 WEST ELEVATION (NO CHANGE PROPOSED)  
A301 1 : 250

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

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DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



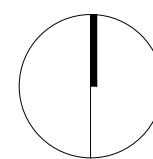
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE  
UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



ELEVATIONS

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP 2024

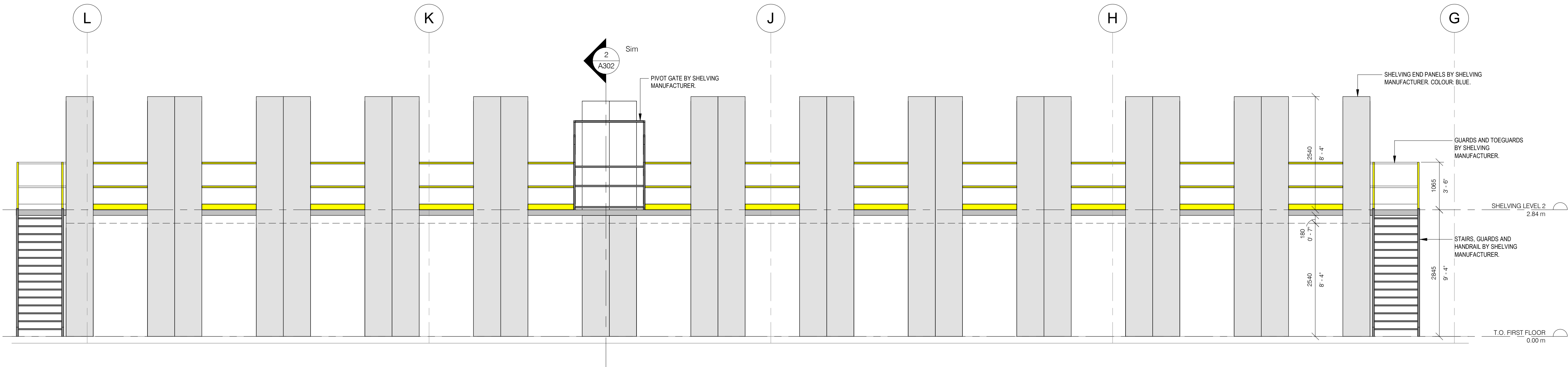
PROJECT NO.

22-136

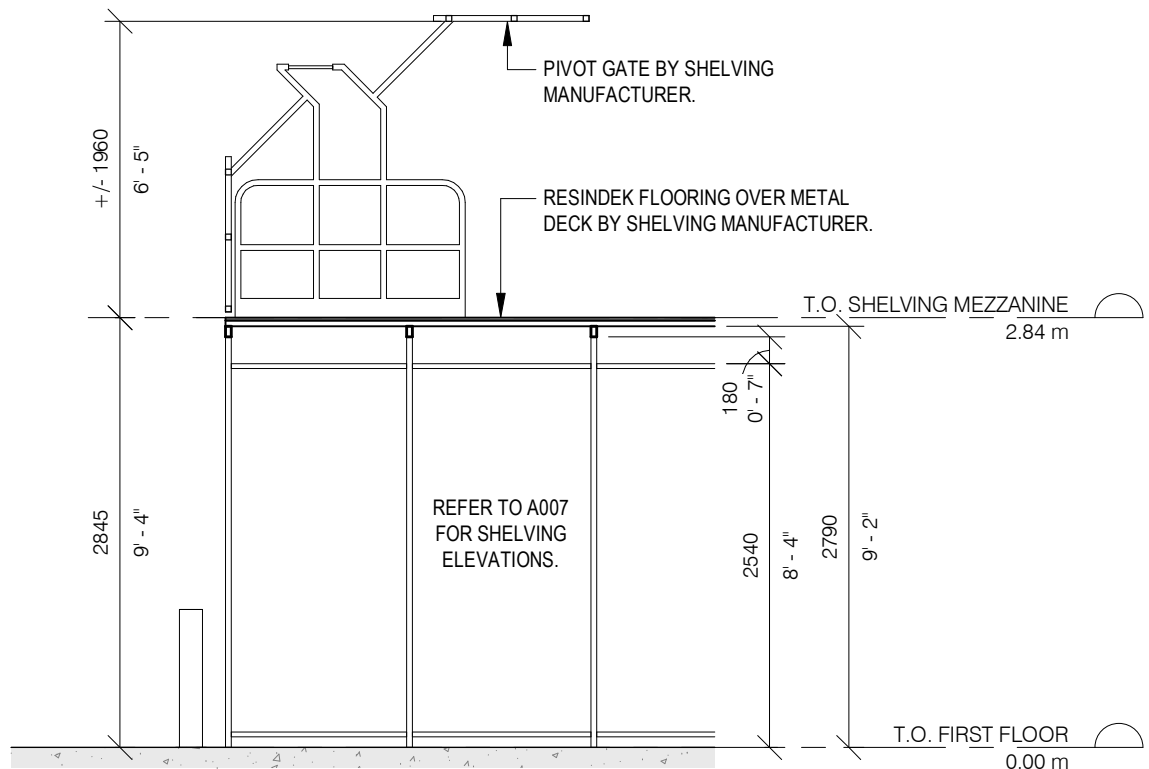
DRAWING NO.

**A301**

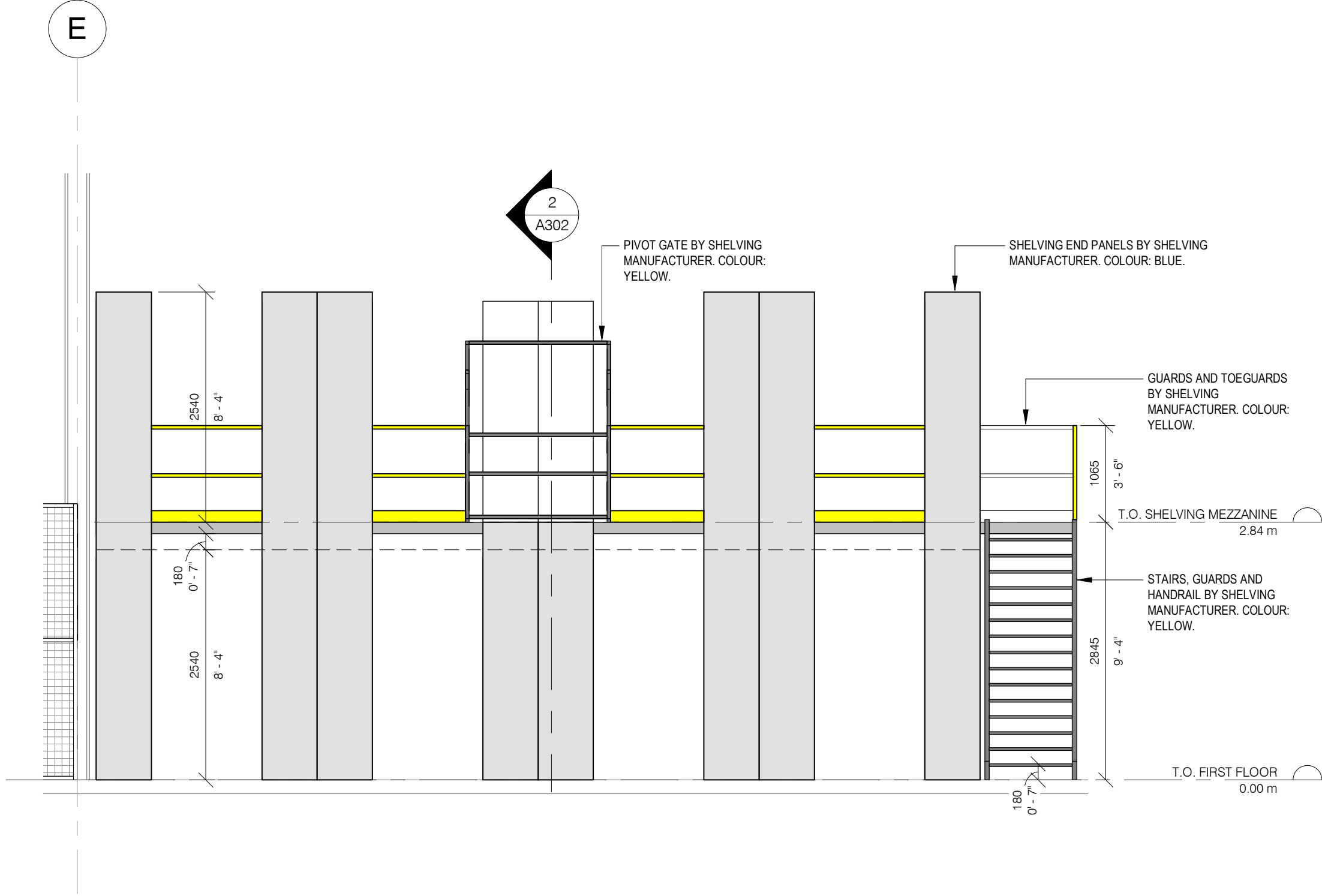




3 PW MULTI-LEVEL SHELVING EAST ELEVATION  
A302 1 : 50



2 MULTI-LEVEL SHELVING PIVOT GATE SECTION TYP.  
A302 1 : 50



1 CS-FMO MULTI-LEVEL SHELVING EAST ELEVATION  
A302 1 : 50

**GENERAL CONSTRUCTION NOTES:**

A. MULTI-LEVEL SHELVING MEZZANINE: DRAWINGS INDICATE GENERAL SIZE AND CONFIGURATION REQUIREMENTS. MULTI-LEVEL SHELVING MEZZANINE DETAILS AND COMPONENT SIZES WILL DIFFER DEPENDING ON MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS PREPARED BY MANUFACTURER/ AUTHORIZED VENDOR, SUPPLY AND INSTALL CUSTOM COMPONENTS WHERE SHOWN COMPONENT SIZES ARE NOT AVAILABLE FROM MANUFACTURER AS STANDARD SIZE.

B. MECHANICAL AND ELECTRICAL SYSTEMS: CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL WORKS SERVING MULTI-LEVEL SHELVING SYSTEM (IE. SPRINKLERS, LIGHTING, POWER ETC.).

C. STRUCTURAL REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS REGARDING REQUIRED CONCRETE FLOOR SLAB THICKNESS/ CAPACITY INVESTIGATIONS.

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	GALVE
GALV	GALVANIZED
GWB	GYP SUM 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
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US	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

1	2024/10/02	ISSUED FOR TENDER
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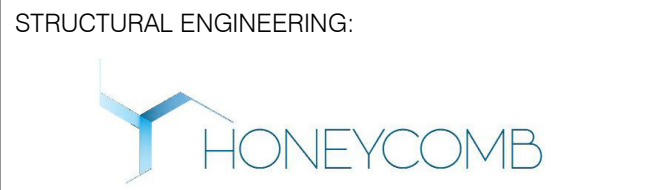
REVISIONS

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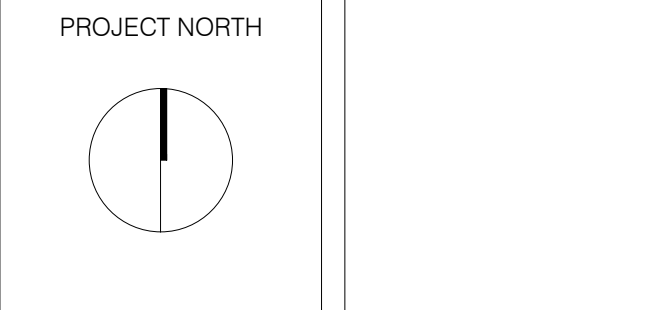
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HWP WAREHOUSE  
UPGRADE  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



MULTI-LEVEL SHELVING SYSTEM  
SECTIONS AND ELEVATIONS

ENTERED: LT.	DRAWING NO.
CHECKED: D.C.	A302
DATE: SEP.2024	
PROJECT NO.	
22-136	




REVISIONS

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ARCHITECT:  
**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

STRUCTURAL ENGINEERING:

 HONEYCOMB

PROJECT NORTH

ENTERED: L.T.	DRAWING NO.  <b>A311</b>
CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	

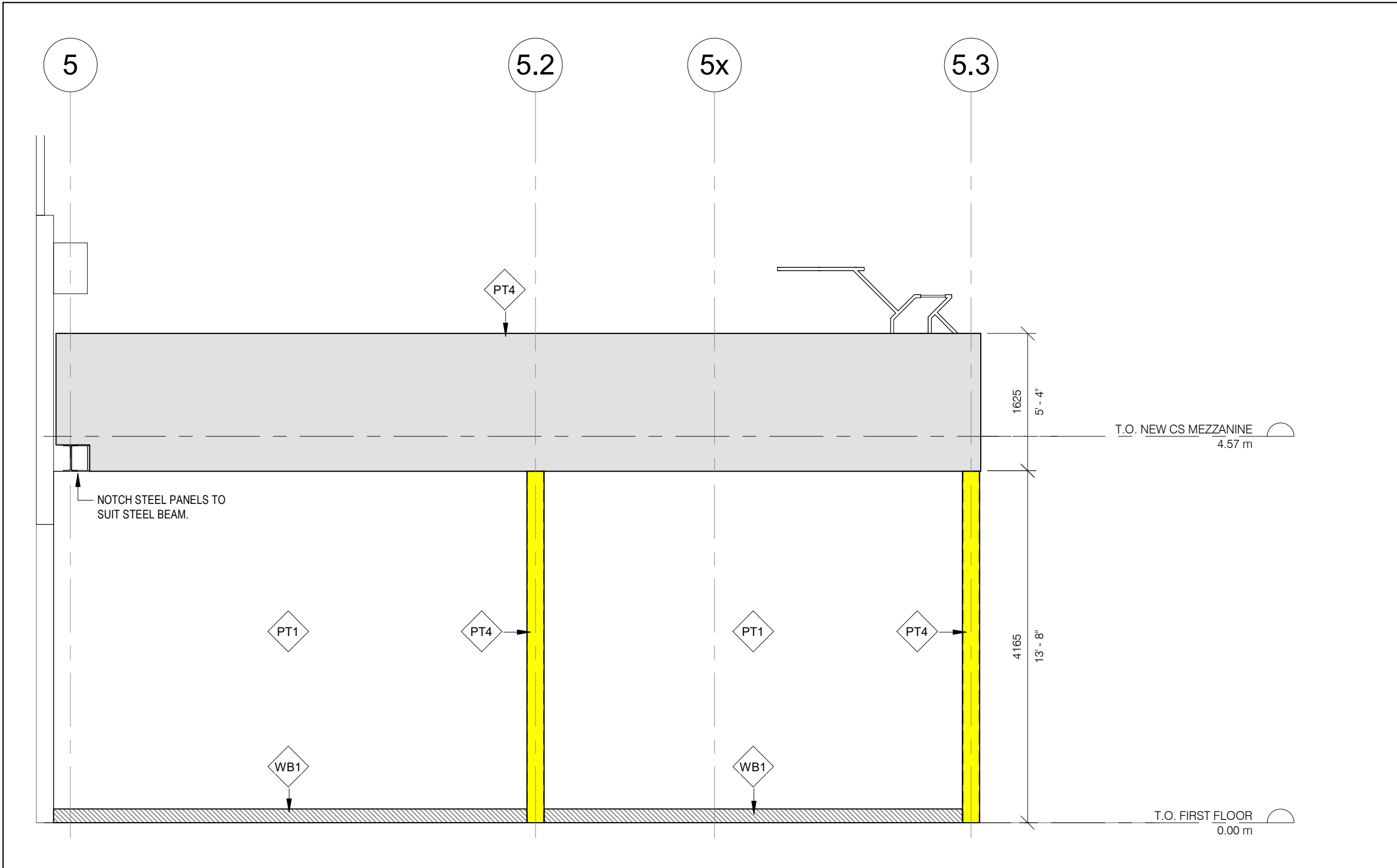


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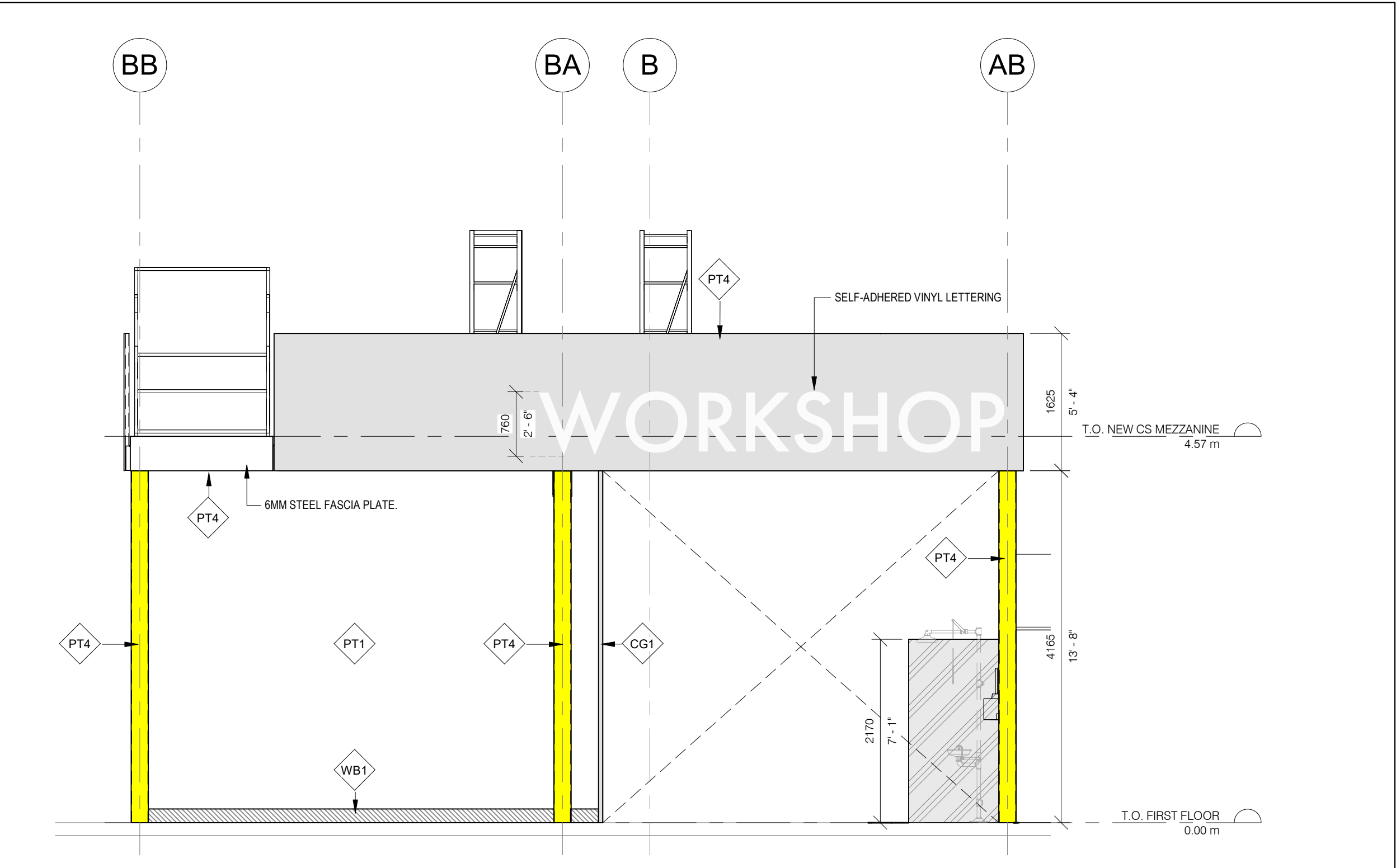
ACT	ACOUSTIC CEILING TILE
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FRR	FIRE RESISTANCE RATING
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GALV	GALVANIZED
GWB	GYPSPUM WALL
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HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NIS	NOT TO SCALE
OBSC	ON CENTRE BUILDING CODE
OC	ON CENTRE
OPEN	OPEN WEB STEEL JOIST
OWLS	PLASTIC LAMINATE
PWS	PUFF ANCHOR
R	ROOF DRAIN
RWL	RAIN WATER LEADER
RT	ROUGH TRANSMISSION CLASS
SPEC	SPECIFICATION
SS	STAINLESS STEEL
US	UNDERSIDE
W	WITH
WC	WATER CLOSET



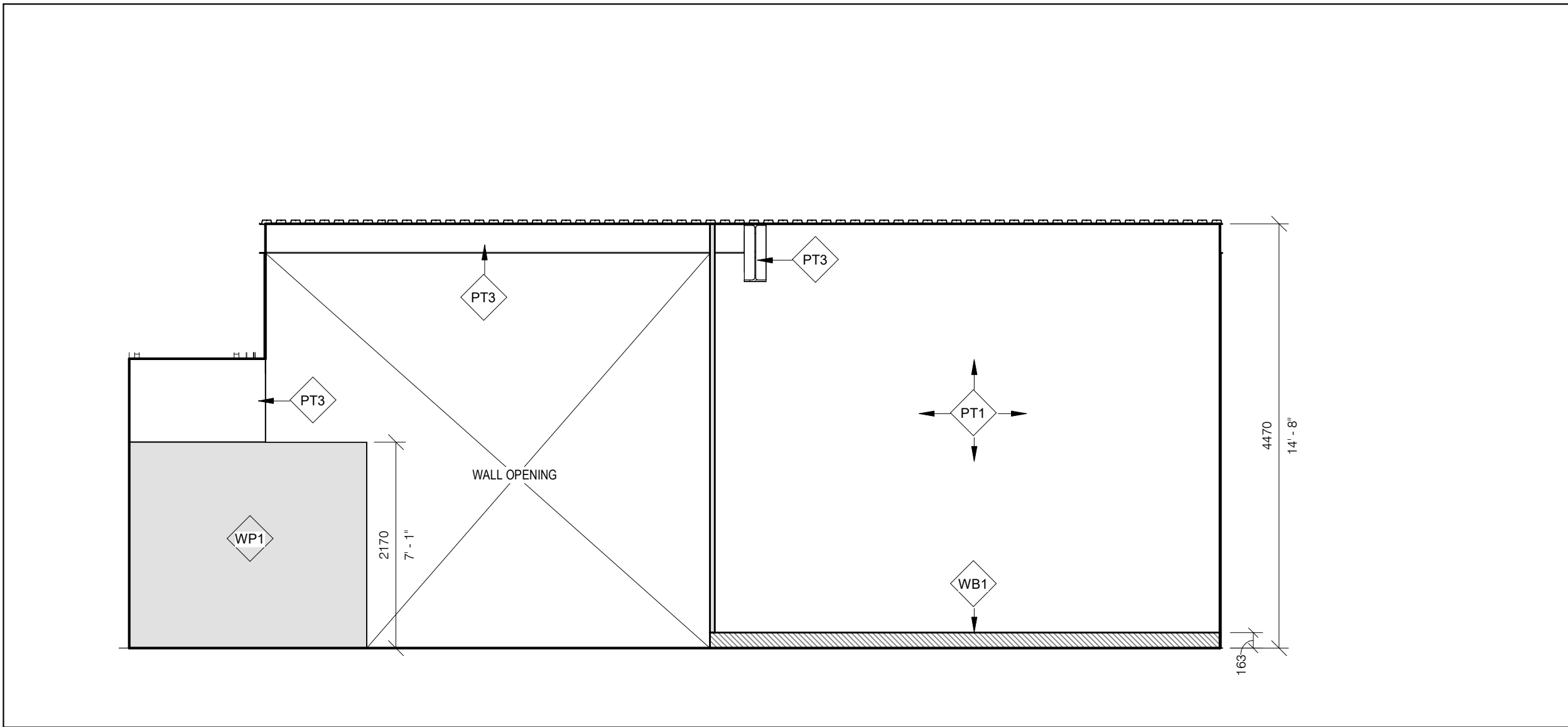




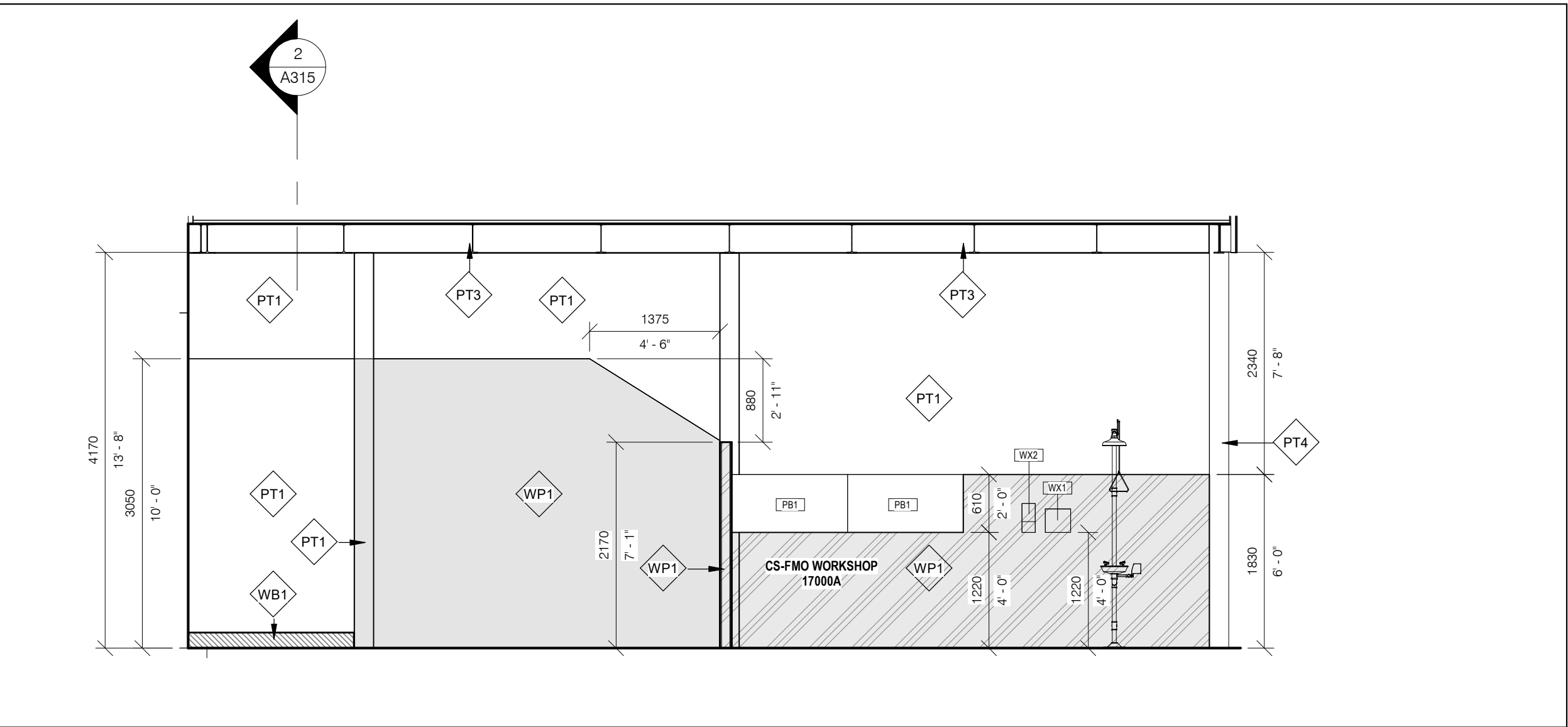
2 CS-FMO WORKSHOP AND STORAGE MEZZANINE SOUTH ELEVATION  
A312 1 : 50



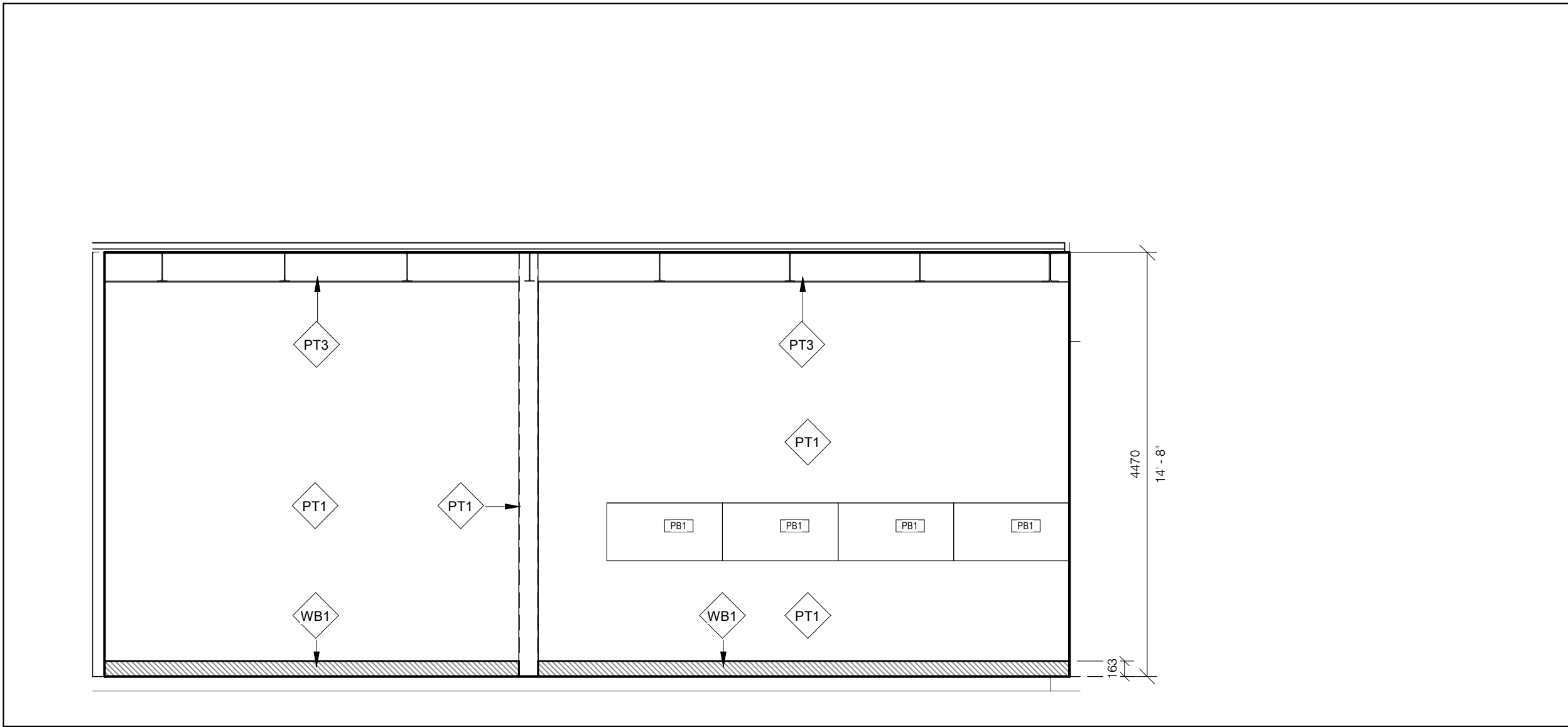
1 CS-FMO WORKSHOP AND STORAGE MEZZANINE EAST ELEVATION  
A312 1 : 50



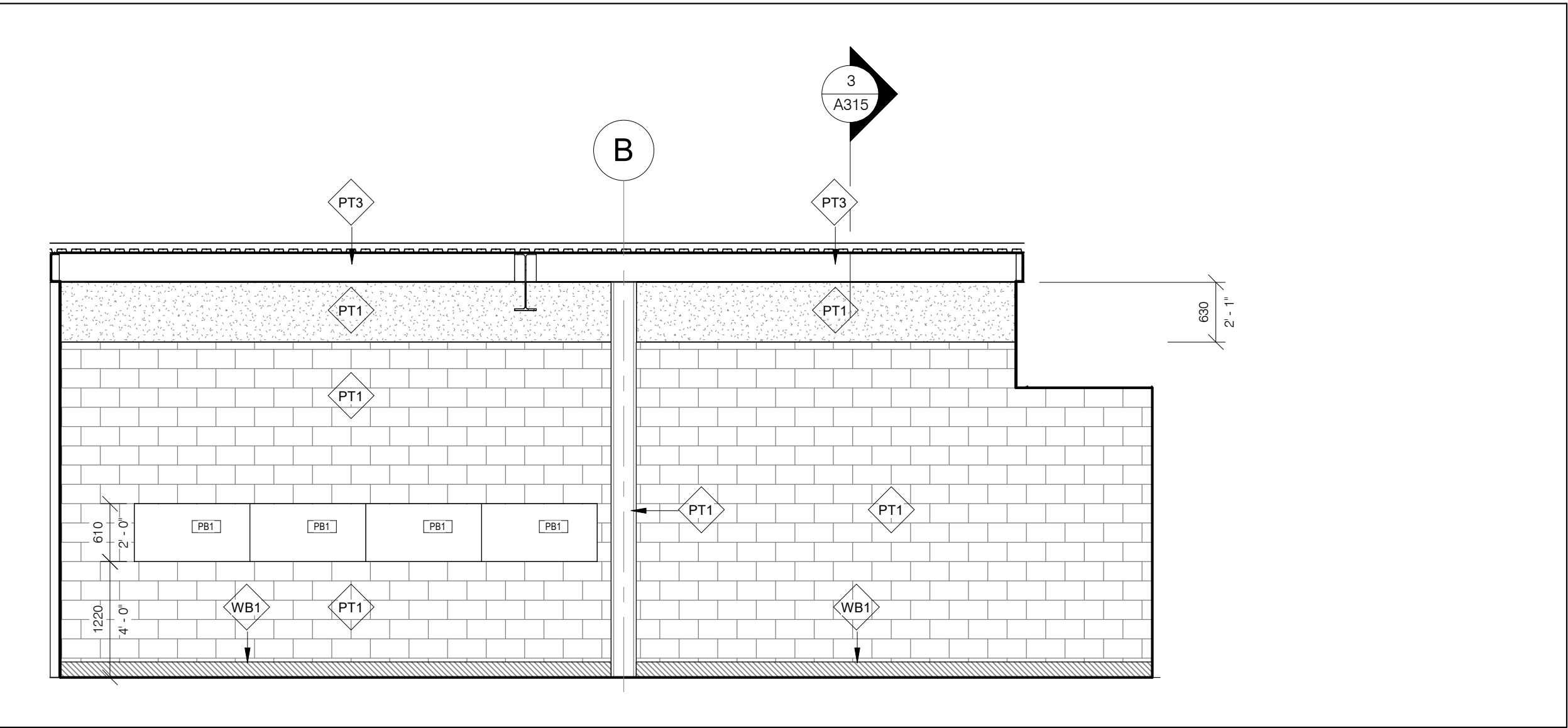
6 CS-FMO WORKSHOP EAST WALL ELEVATION  
A312 1 : 50



5 CS-FMO WORKSHOP NORTH WALL ELEVATION  
A312 1 : 50



4 CS-FMO WORKSHOP SOUTH WALL ELEVATION  
A312 1 : 50



3X CS-FMO WORKSHOP WEST WALL ELEVATION  
A312 1 : 50

**GENERAL CONSTRUCTION NOTES:**

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**ABBREVIATIONS**

ACT ABOVE FINISH CEILING TILE  
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AL ALUMINUM  
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CFS COLD FORMED STEEL  
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CLG CEILING  
CLR CLEAR  
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FIN FINISH  
FIR FIRE RESISTANCE RATING  
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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

**FINISHES LEGEND:**

PT# PAINT TYPE #:  
VARIES - SEE FINISH SCHEDULE

CG1 CORNER GUARD TYPE 1:  
PAINTED STEEL - YELLOW

CG2 CORNER GUARD TYPE 2:  
STAINLESS STEEL

WB1 WALLBASE TYPE 1:  
PVC

WP1 WALL PANEL TYPE 1:  
STAINLESS STEEL

WP2 WALL PANEL TYPE 2:  
PVC

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NO.	DATE	ISSUED

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CLIENT:

**York Region**

ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:

**QUASAR**  
CONSULTING GROUP

STRUCTURAL ENGINEERING:

**HONEYCOMB**

**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

**CS-FMO WORKSHOP AND MEZZANINE ELEVATIONS**

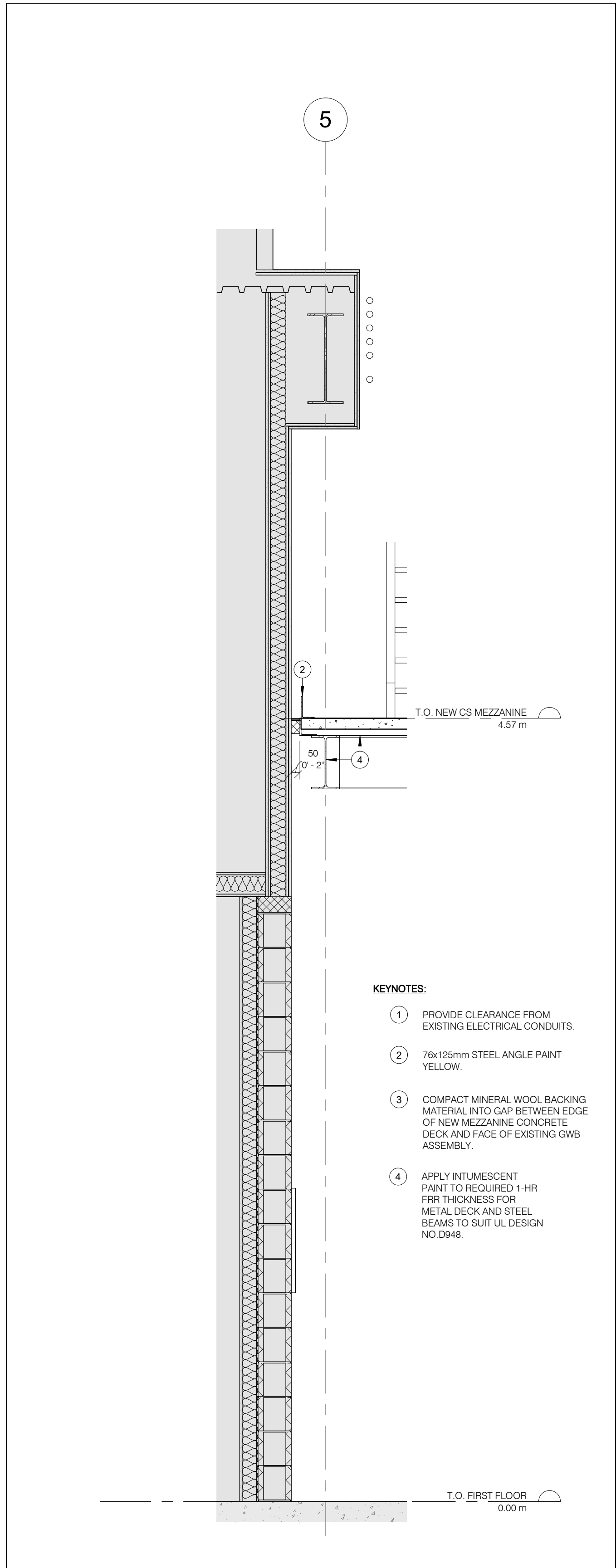
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DATE: SEP.2024  
PROJECT NO.

DRAWING NO.

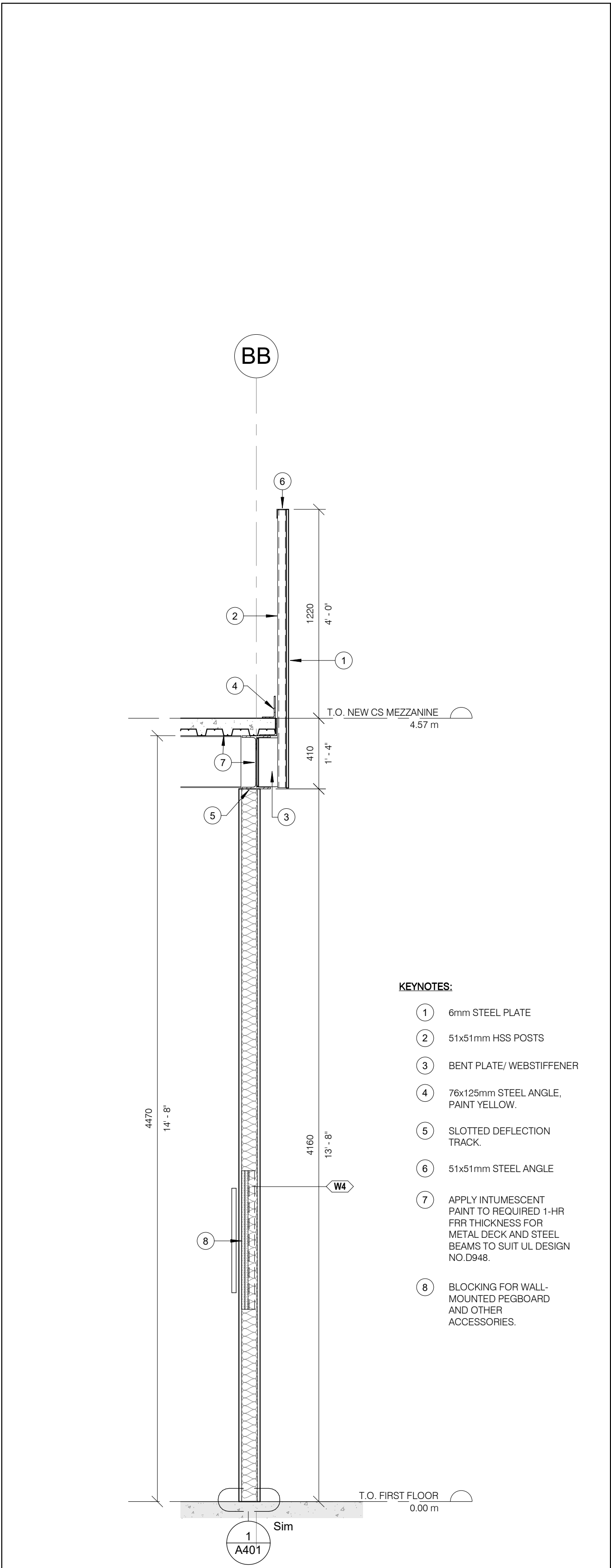
**A312**

22-136

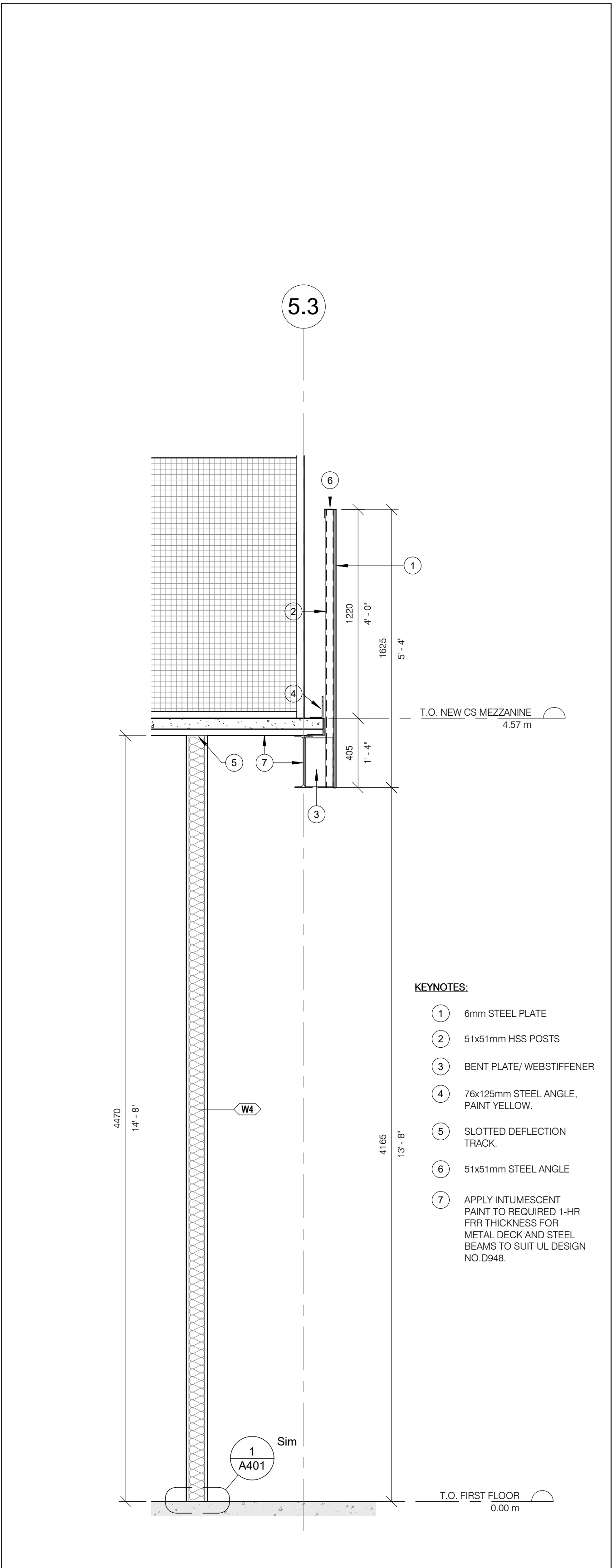




3  
A313 CS WORKSHOP - WEST WALL  
1 : 20



2  
A313 CS WORKSHOP - SOUTH WALL  
1 : 20



1  
A313 CS WORKSHOP - EAST WALL  
1 : 20

**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
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
US	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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CLIENT:

**York Region**

ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:

**QUASAR**  
CONSULTING GROUP

STRUCTURAL ENGINEERING:

**HONEYCOMB**

**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

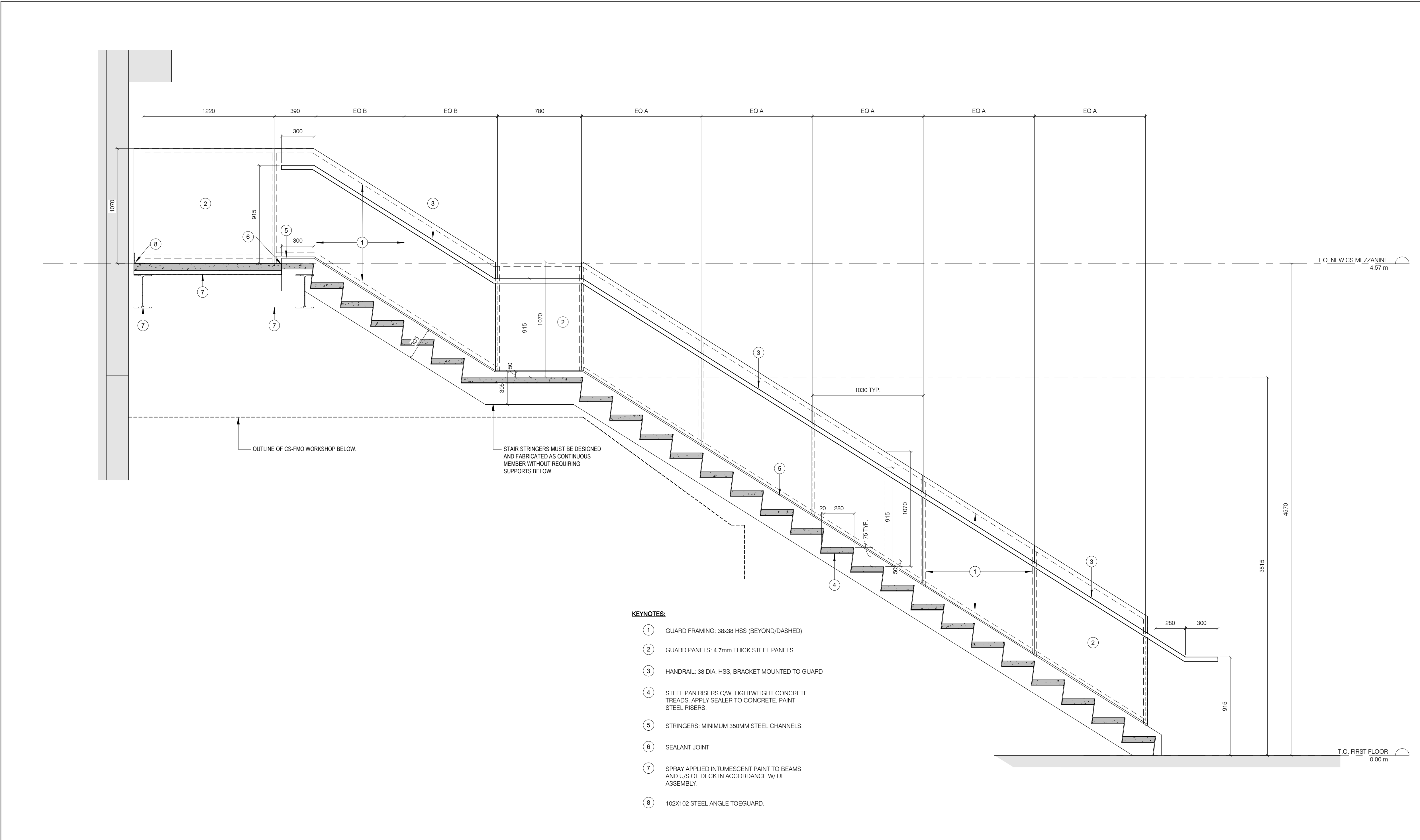
CS-FMO WORKSHOP AND  
MEZZANINE DETAIL SECTIONS

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

22-136

**A313**





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  
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RWL RAINWATER LEADER  
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SPEC SPECIFICATION  
SS STAINLESS STEEL  
U/S UNDERSIDE  
W/ WITH  
W/C WATER CLOSET

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



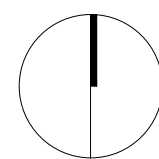
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



CS-FMO MEZZANINE STAIR  
SECTION

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

DRAWING NO.

A314

22-136

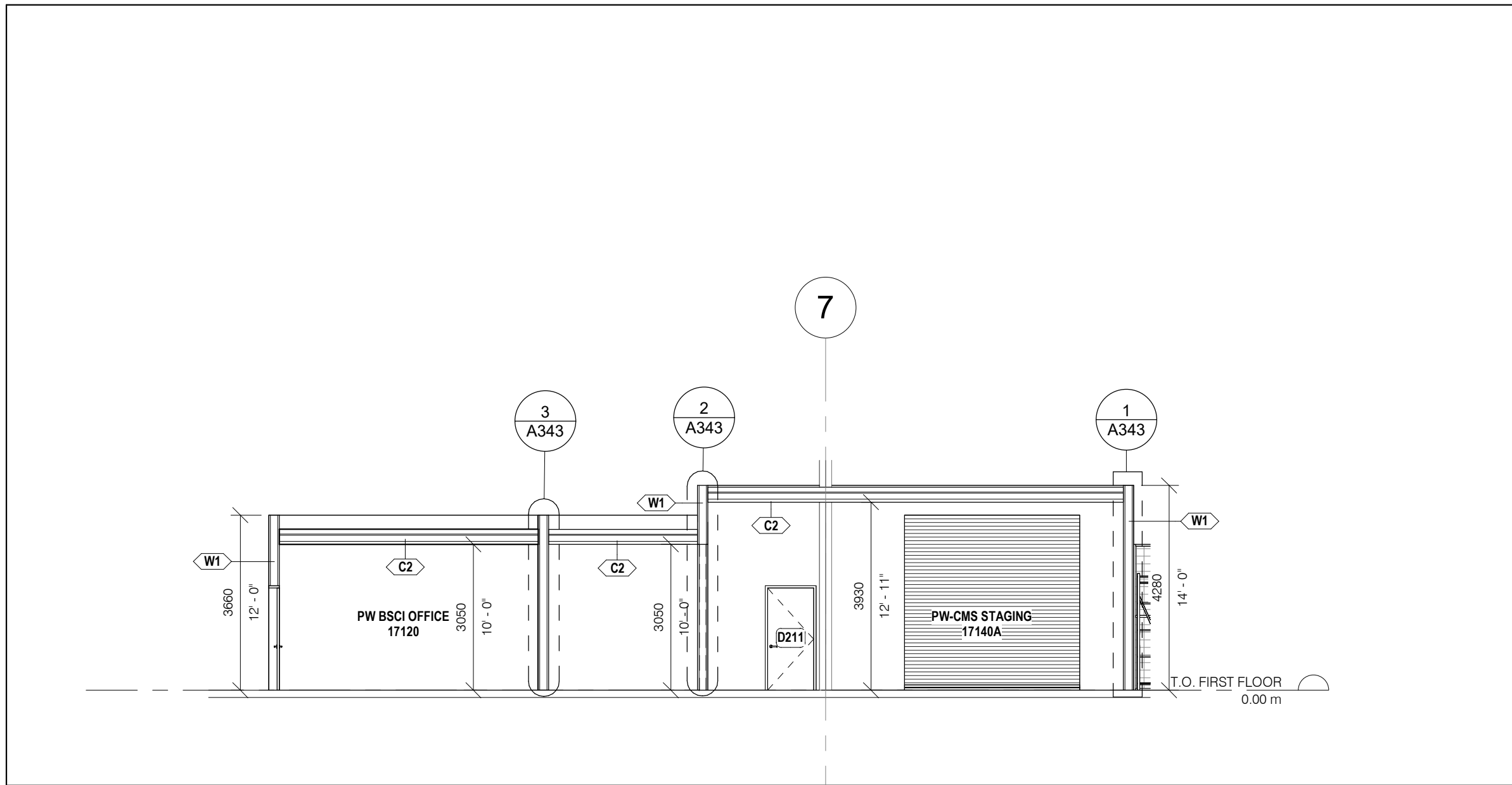
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A314

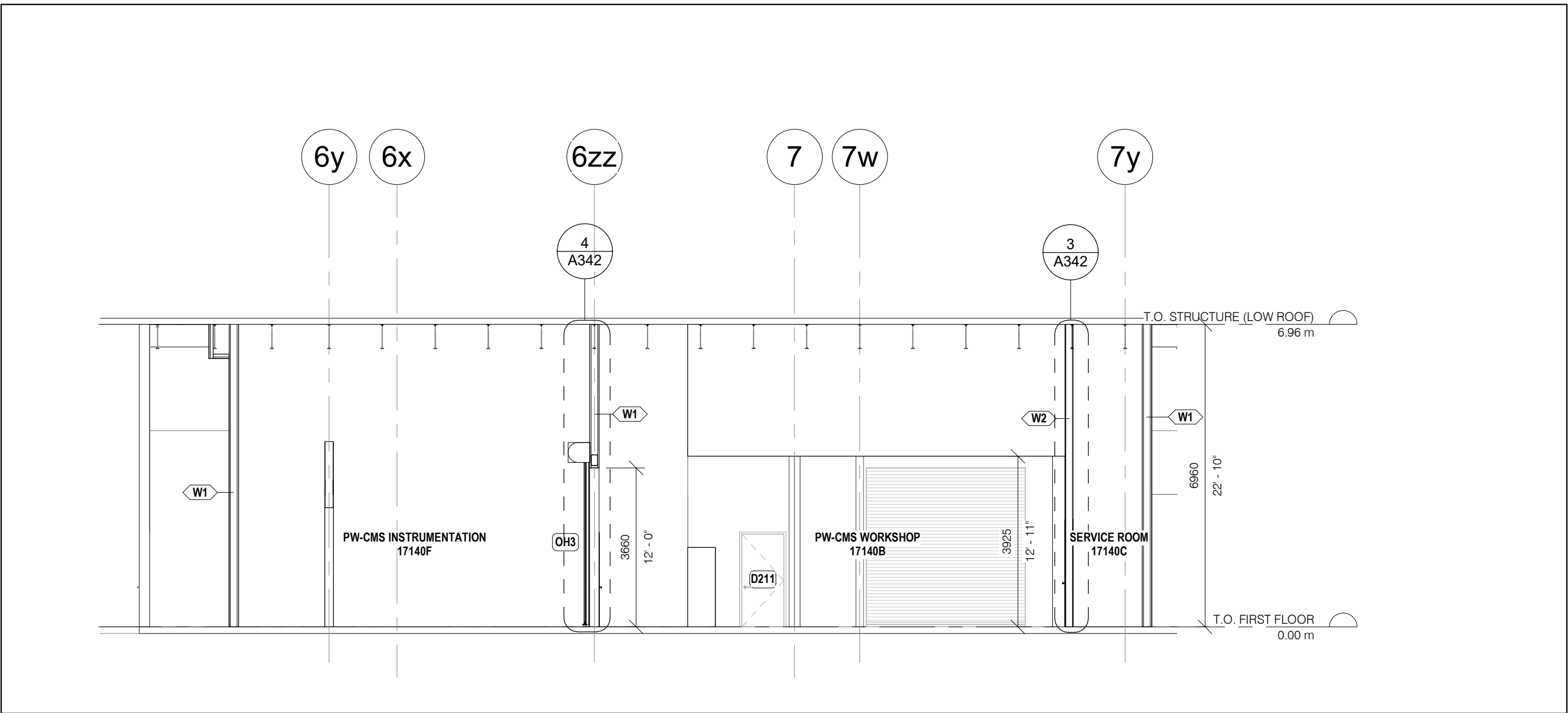
CS-FMO MEZZANINE STAIR SECTION

1 : 20

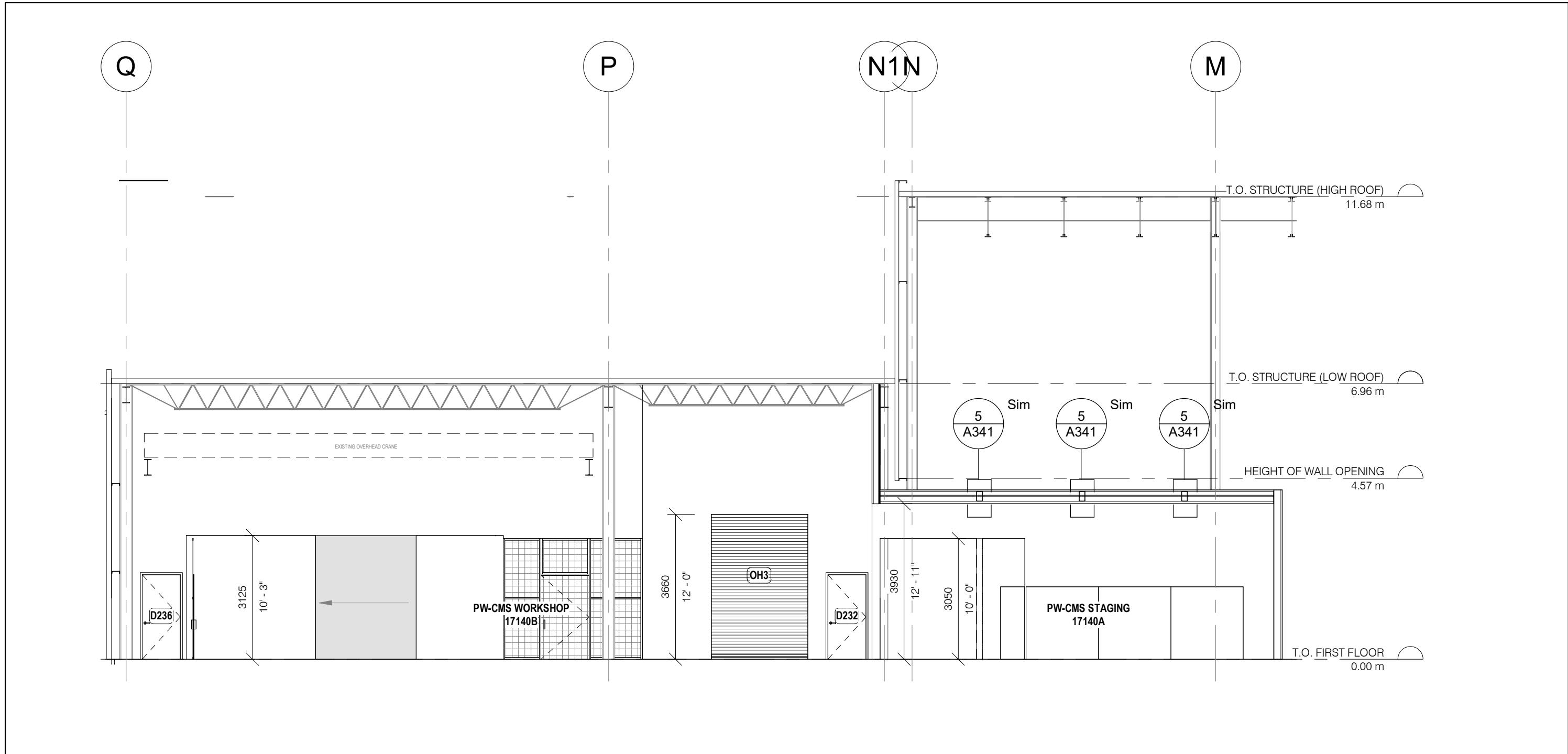




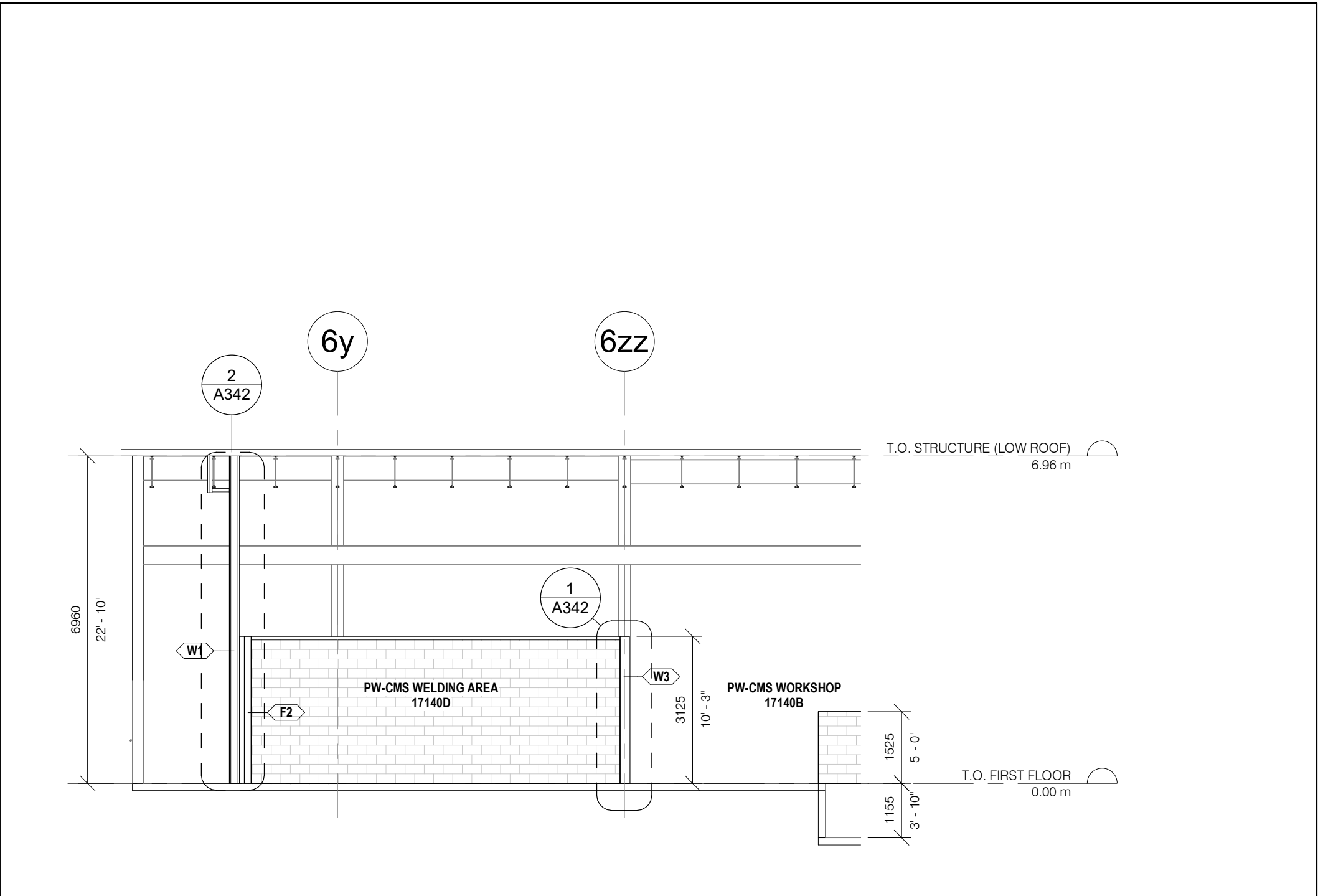
6 PW-CMS STAGING/BSCI SECTION  
A321 1 : 100



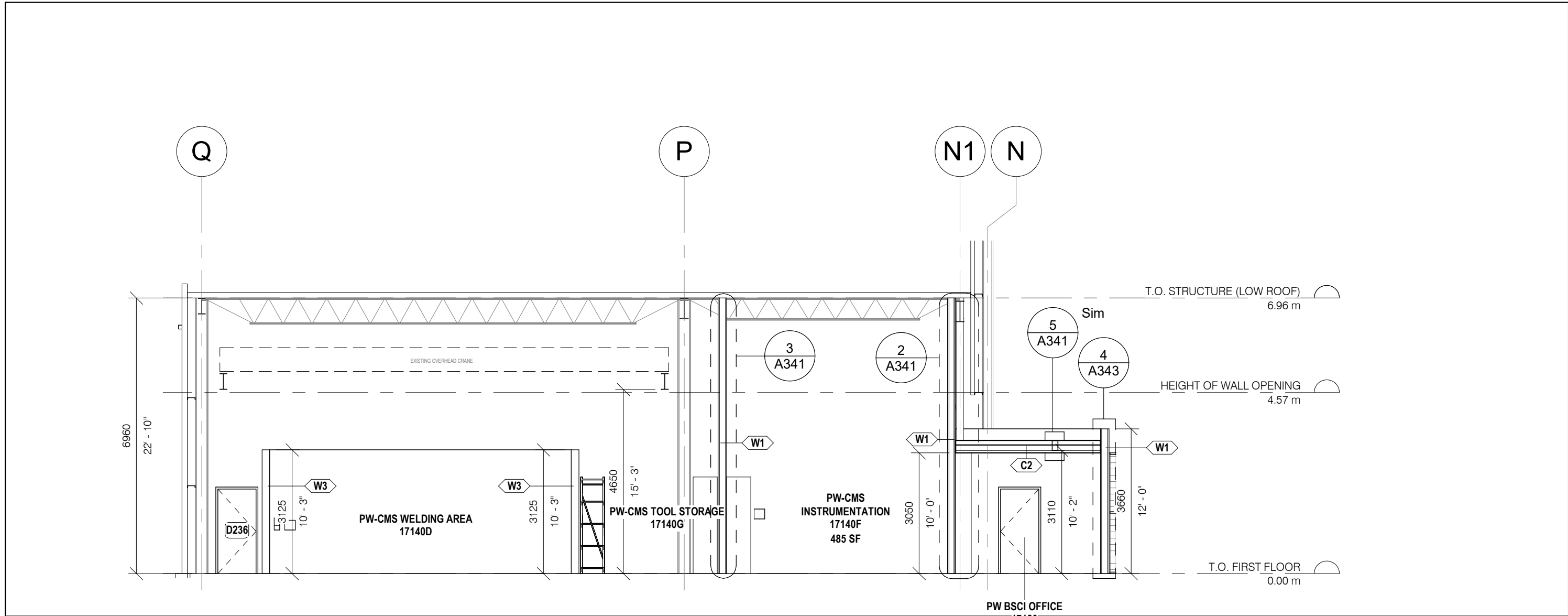
5 PW-CMS WORKSHOP E/W SECTION  
A321 1 : 100



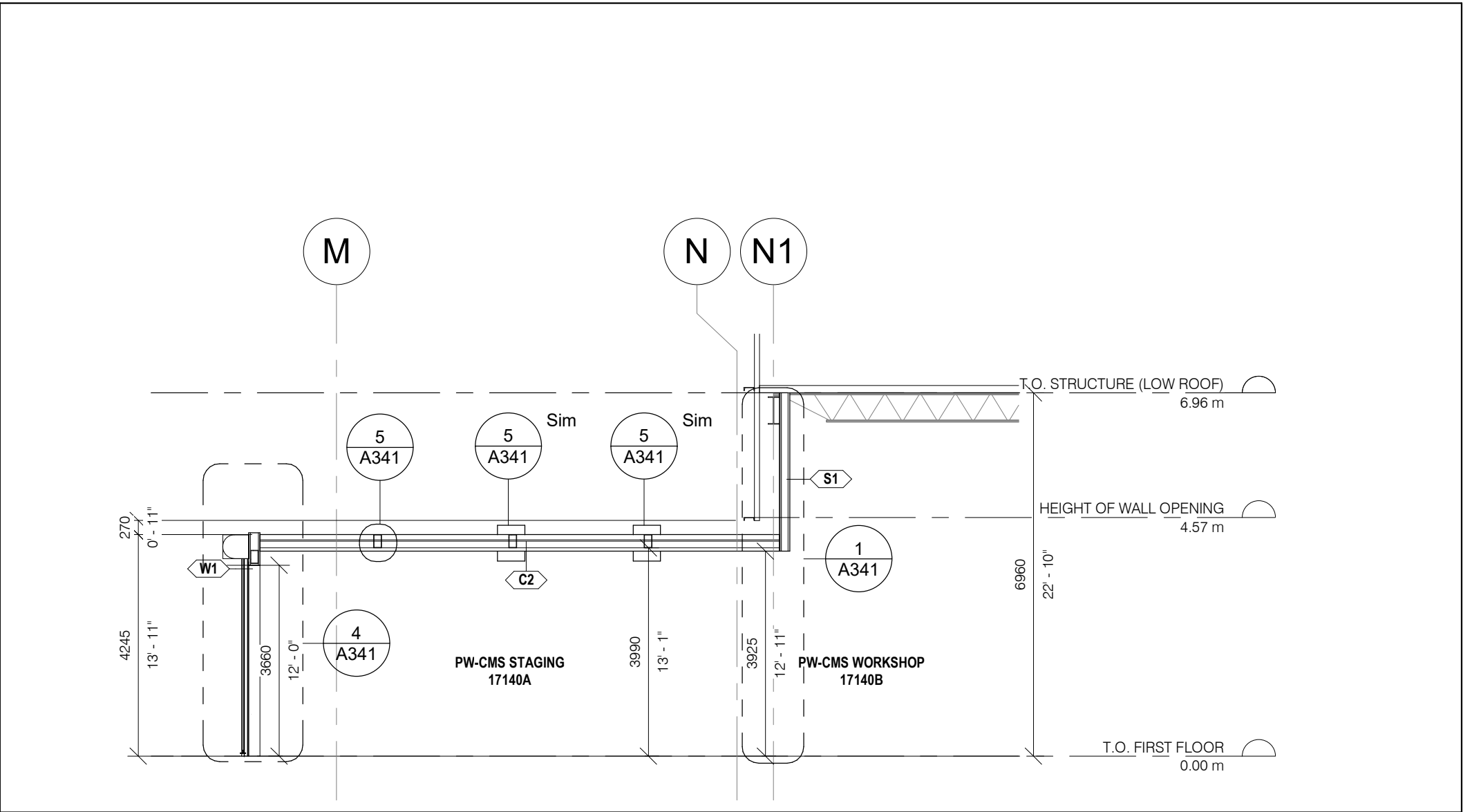
4 PW-CMS WORKSHOP N/S SECTION II  
A321 1 : 100



3 PW-CMS WORKSHOP WELDING AREA SECTION  
A321 1 : 100



2 PW-CMS WORKSHOP/ BSCI N/S SECTION  
A321 1 : 100



1 PW-CMS STAGING/ WORKSHOP SECTION  
A321 1 : 100

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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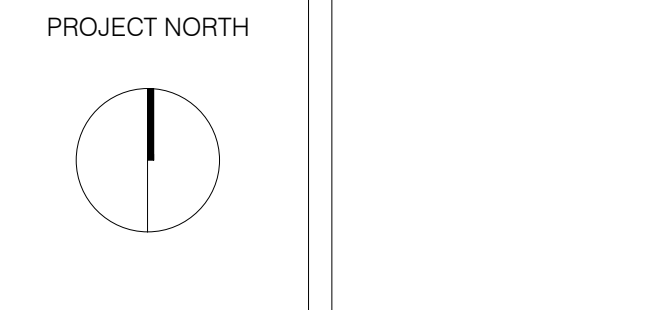
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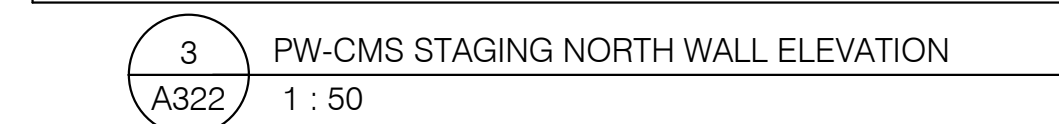
HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



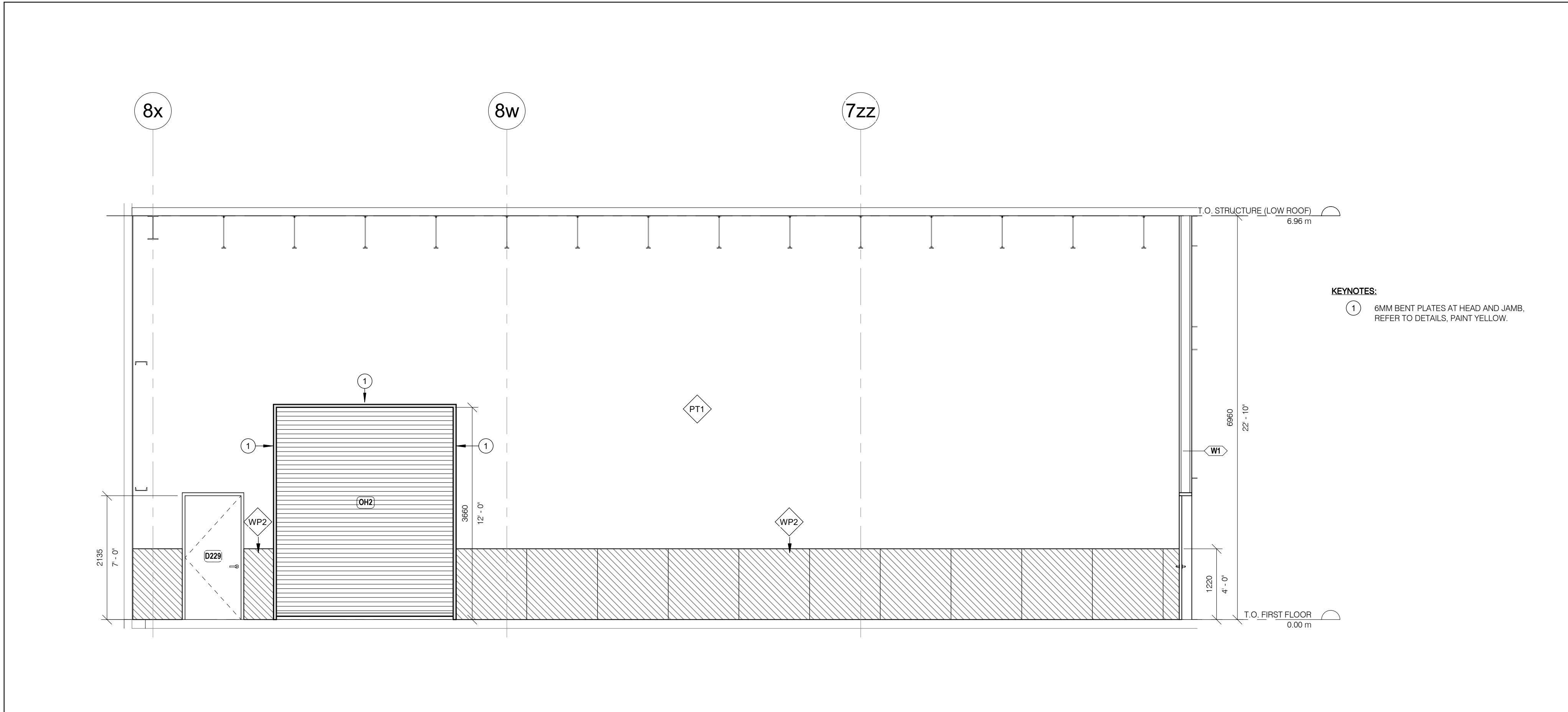
PW-CMS, BSCI SECTIONS

ENTERED: L.T.	DRAWING NO.
CHECKED: D.C.	A321
DATE: SEP.2024	
PROJECT NO.	
22-136	

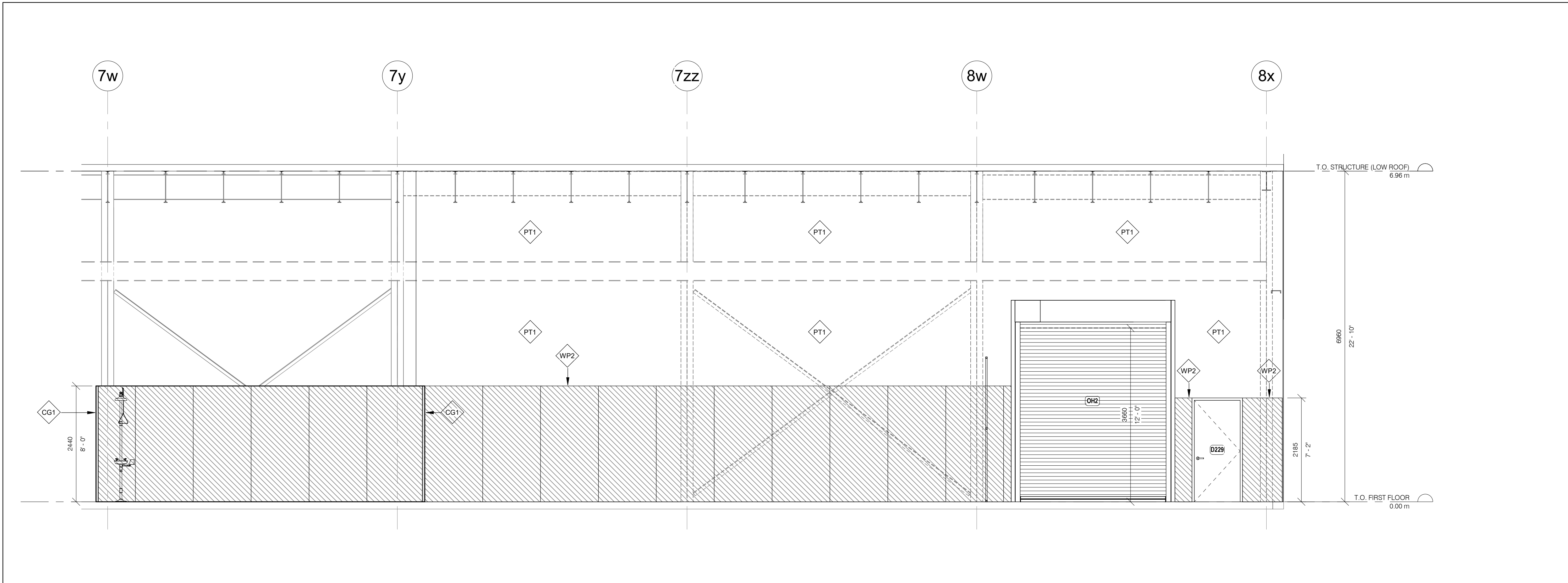


A322





2 PW-CMS WORKSHOP NORTH WALL ELEVATION (CORRIDOR SIDE)  
A323 1 : 50



1 PW-CMS WORKSHOP NORTH WALL ELEVATION  
A323 1 : 50

#### 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.

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E. ALL MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN FOR REFERENCE ONLY, REFER TO APPLICABLE MECHANICAL & ELECTRICAL DRAWINGS FOR DETAIL REQUIREMENTS.

#### KEYNOTES:

1 6MM BENT PLATES AT HEAD AND JAMB, REFER TO DETAILS, PAINT YELLOW.

#### 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  
FIR FIRE RESISTANCE RATING  
FLR FLOOR  
GA GAUGE  
GALV GALVANIZED  
GWB GYPSUM WALL BOARD  
HT HEIGHT  
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LS LIGHT STANDARD  
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RWL RAINWATER LEADER  
STC SOUND TRANSMISSION CLASS  
SPEC SPECIFICATION  
SS STAINLESS STEEL  
U/S UNDERSIDE  
W/ WITH  
W/C WATER CLOSET

#### FINISHES LEGEND:

PT# PAINT TYPE #:  
VARIES - SEE FINISH SCHEDULE

CG1 CORNER GUARD TYPE 1:  
PAINTED STEEL - YELLOW

CG2 CORNER GUARD TYPE 2:  
STAINLESS STEEL

WB1 WALLBASE TYPE 1:  
PVC

WP1 WALL PANEL TYPE 1:  
STAINLESS STEEL

WP2 WALL PANEL TYPE 2:  
PVC

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#### REVISIONS

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



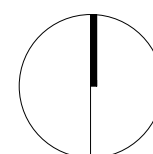
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



## PW-CMS WORKSHOP INTERIOR ELEVATIONS II

ENTERED: L.T.

CHECKED: D.C.

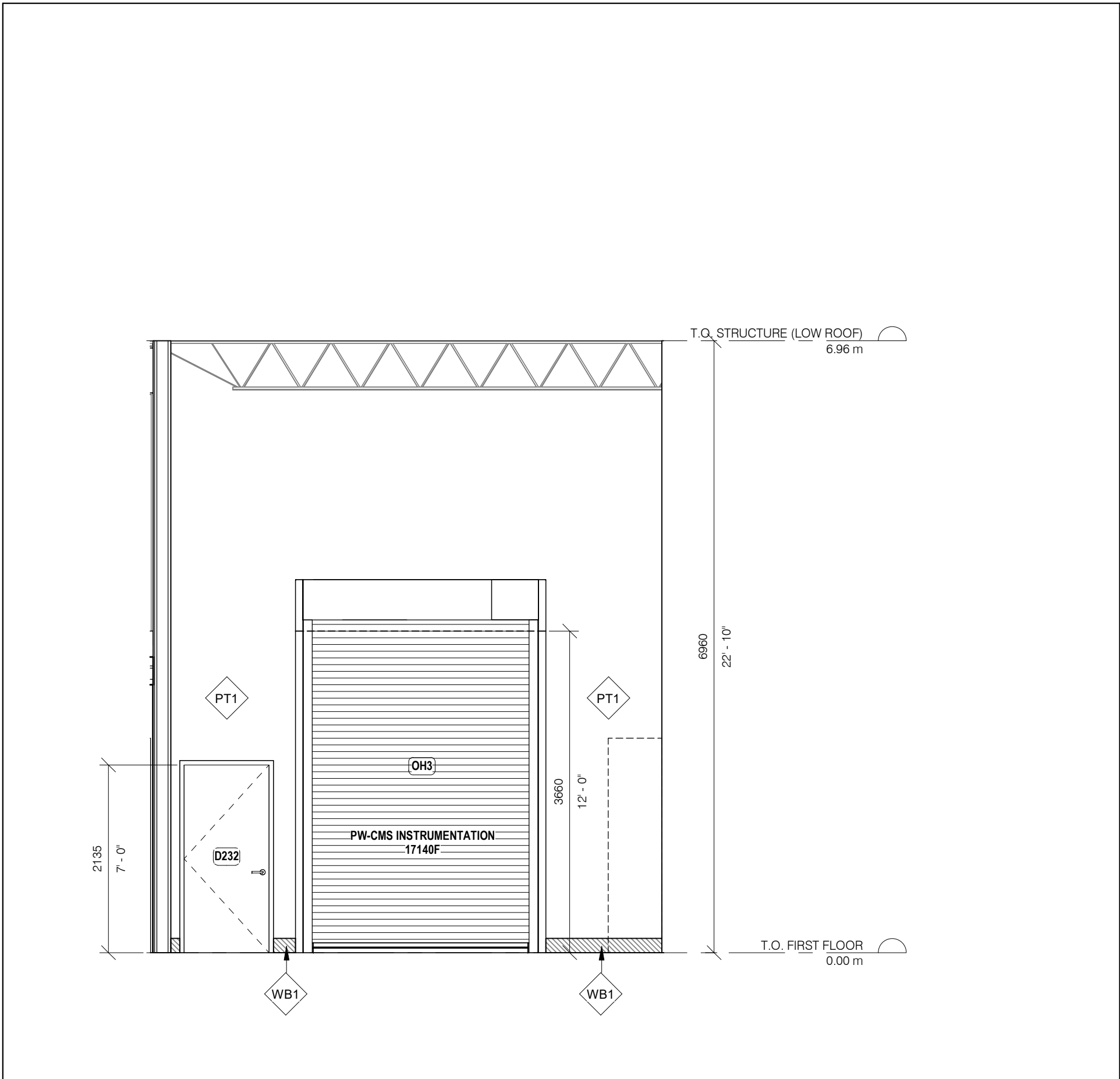
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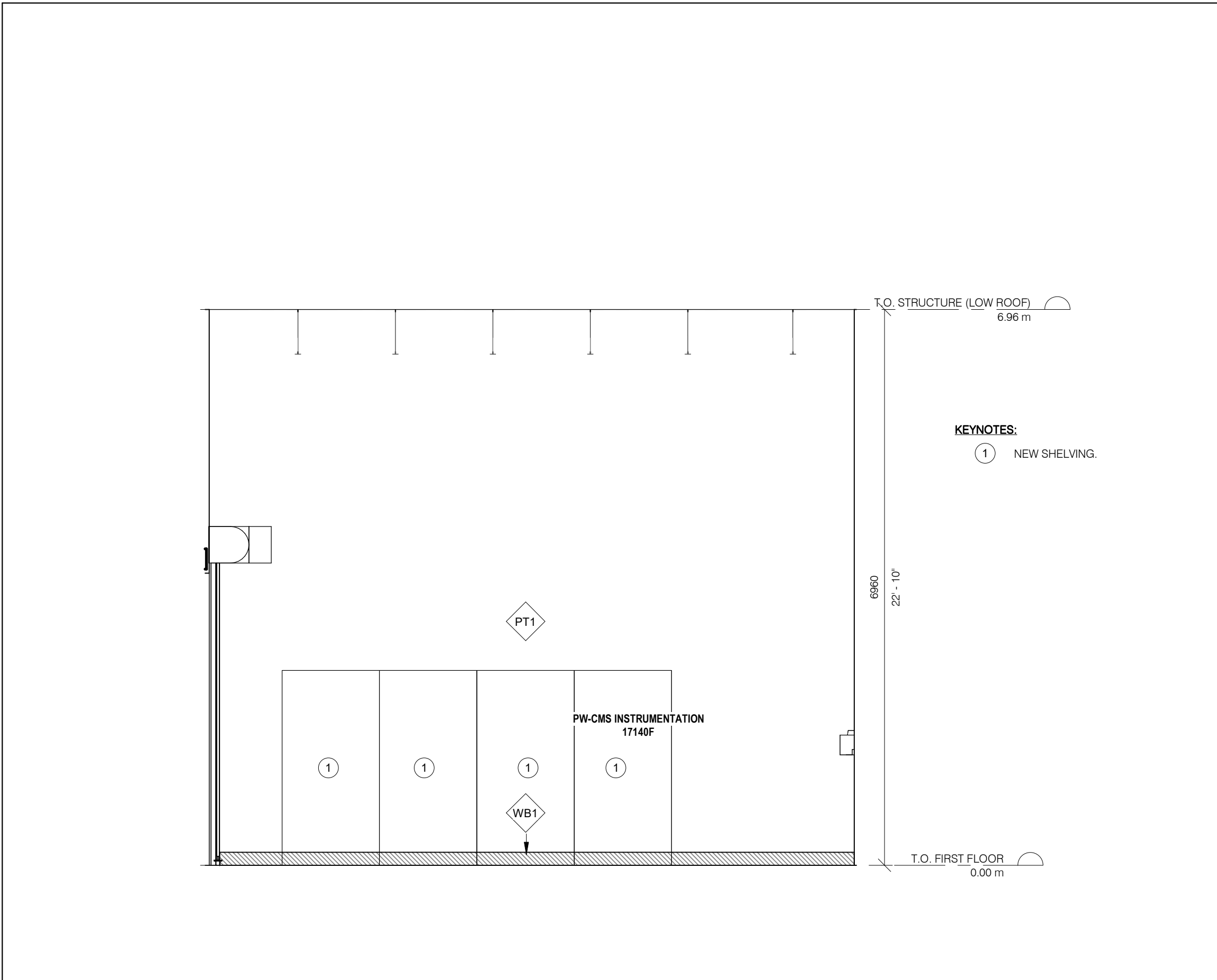
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A323

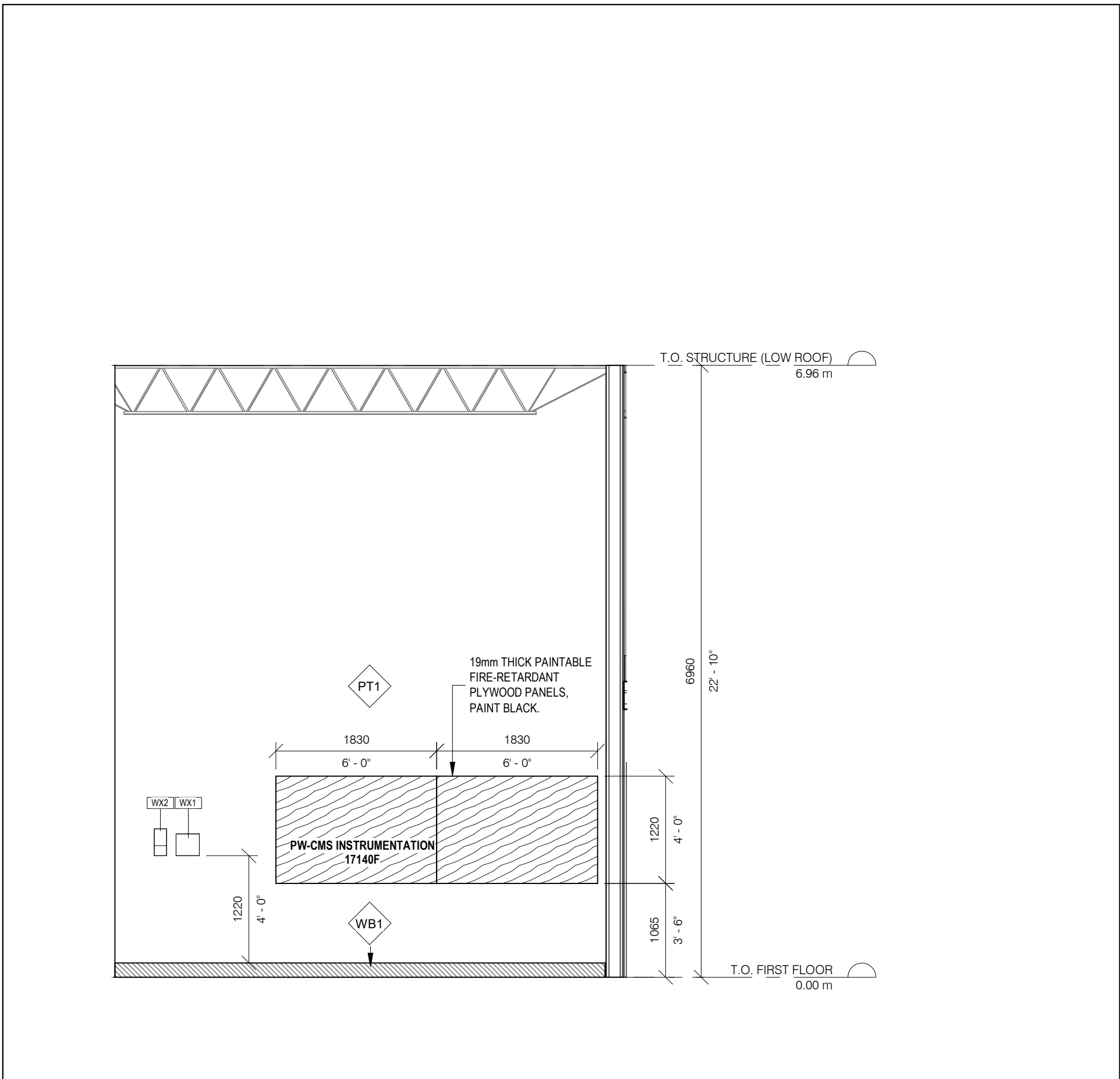
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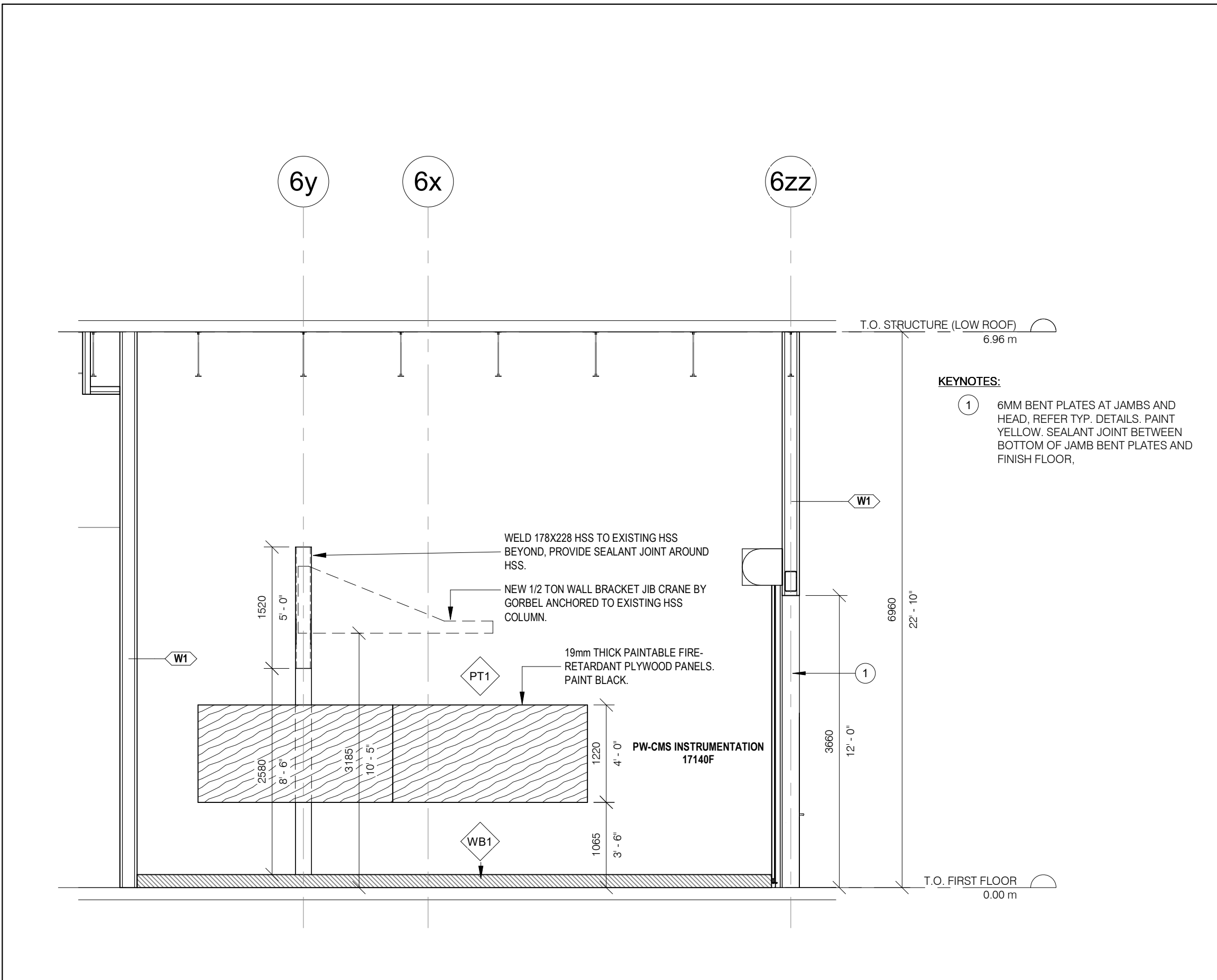
4 PW-CMS INSTRUMENTATION EAST WALL ELEVATION  
A324 1 : 50



3 PW-CMS INSTRUMENTATION SOUTH WALL ELEVATION  
A324 1 : 50



2 PW-CMS INSTRUMENTATION WEST WALL ELEVATION  
A324 1 : 50



1 PW-CMS INSTRUMENTATION SECTION  
A324 1 : 50

GENERAL CONSTRUCTION NOTES:

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KEYNOTES:

- 1 NEW SHELVING.

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
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HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
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W/	WITH
W/C	WATER CLOSET

FINISHES LEGEND:

	PT#	PAINT TYPE #: VARIES - SEE FINISH SCHEDULE
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	CG2	CORNER GUARD TYPE 2: STAINLESS STEEL
	WB1	WALLBASE TYPE 1: PVC
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	WP2	WALL PANEL TYPE 2: PVC

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CLIENT:



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DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



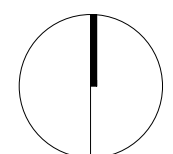
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PW-CMS INSTRUMENTATION  
INTERIOR ELEVATIONS

ENTERED: LT.

CHECKED: D.C.

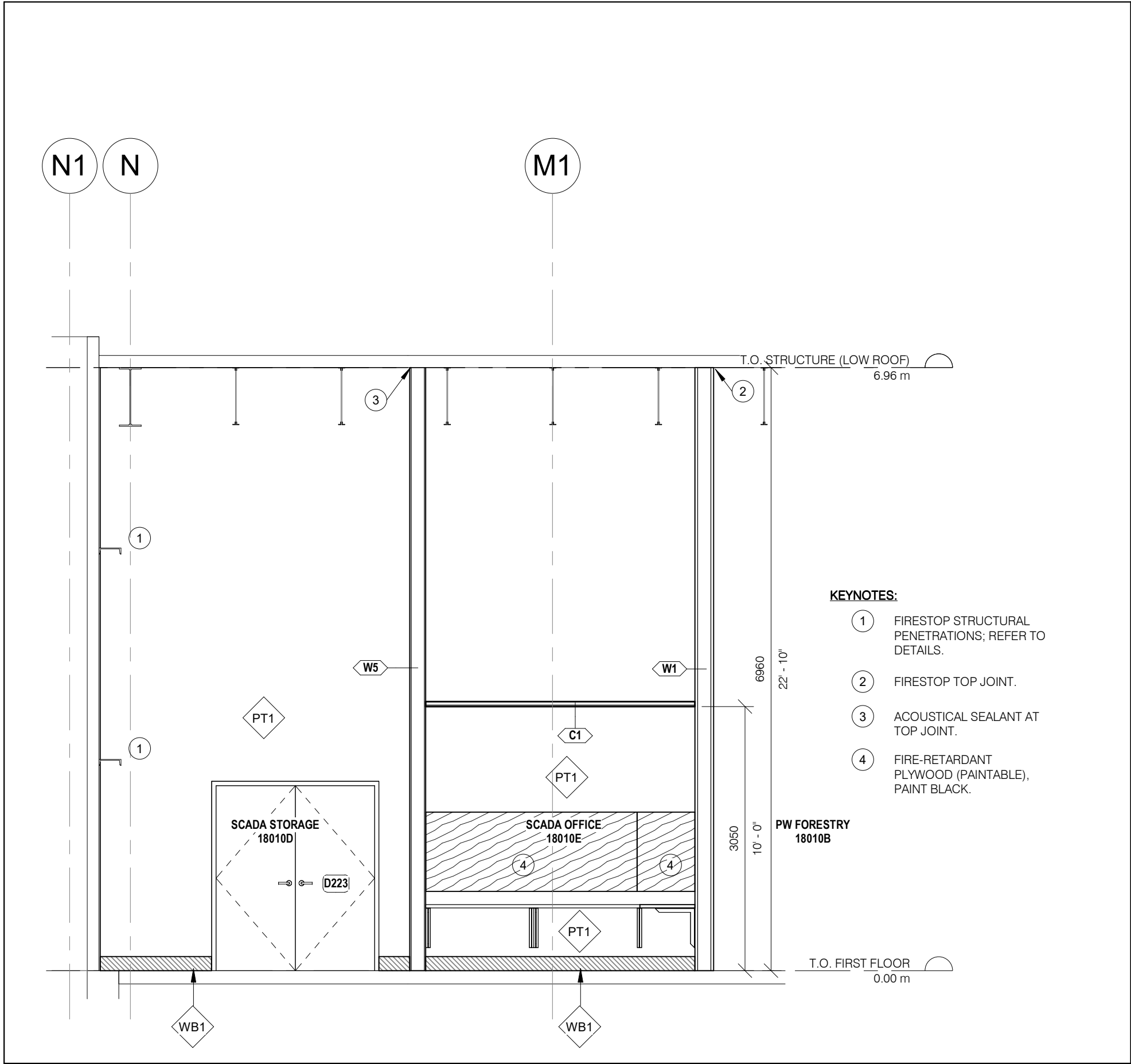
DATE: SEP.2024

PROJECT NO.

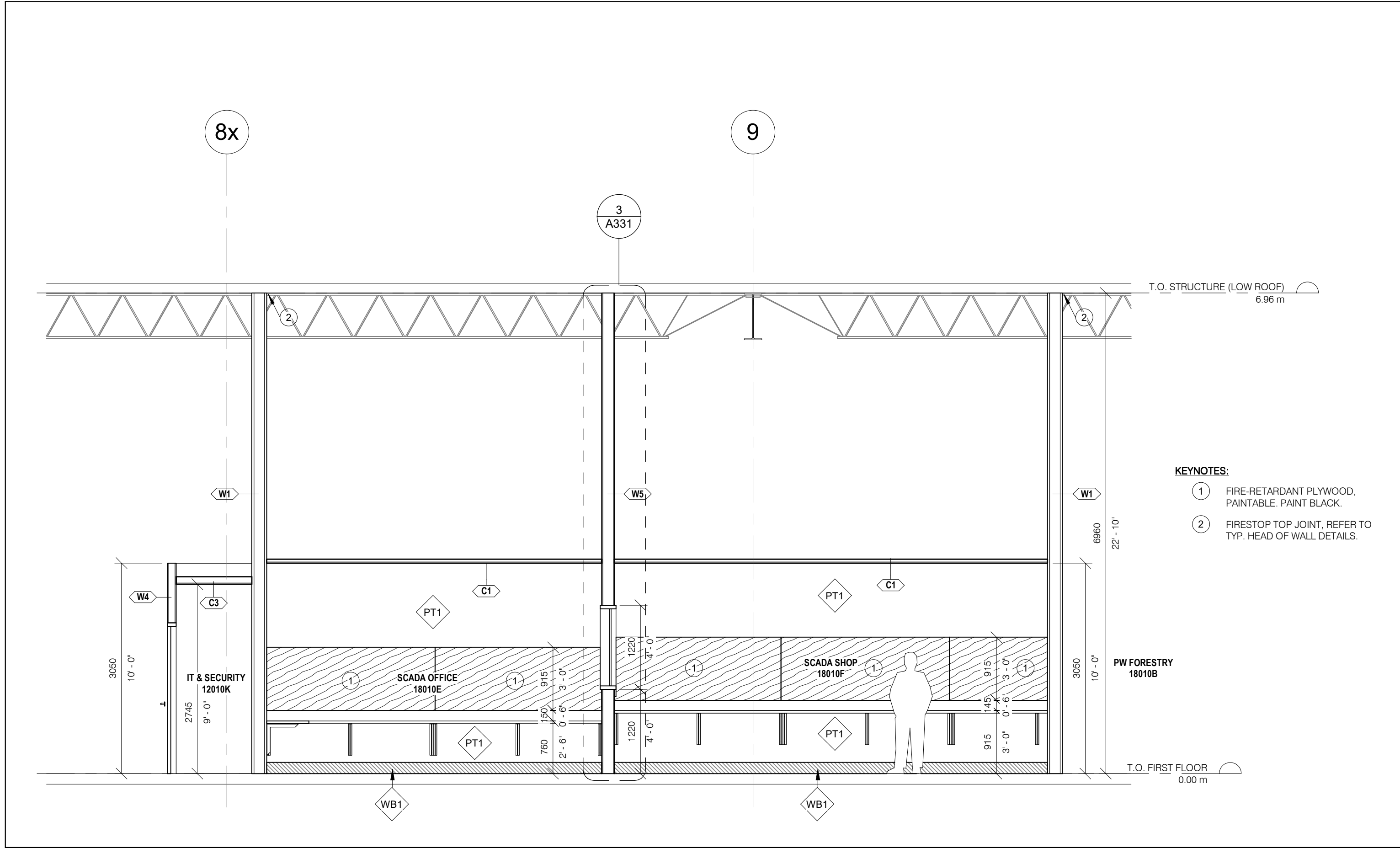
DRAWING NO.

A324

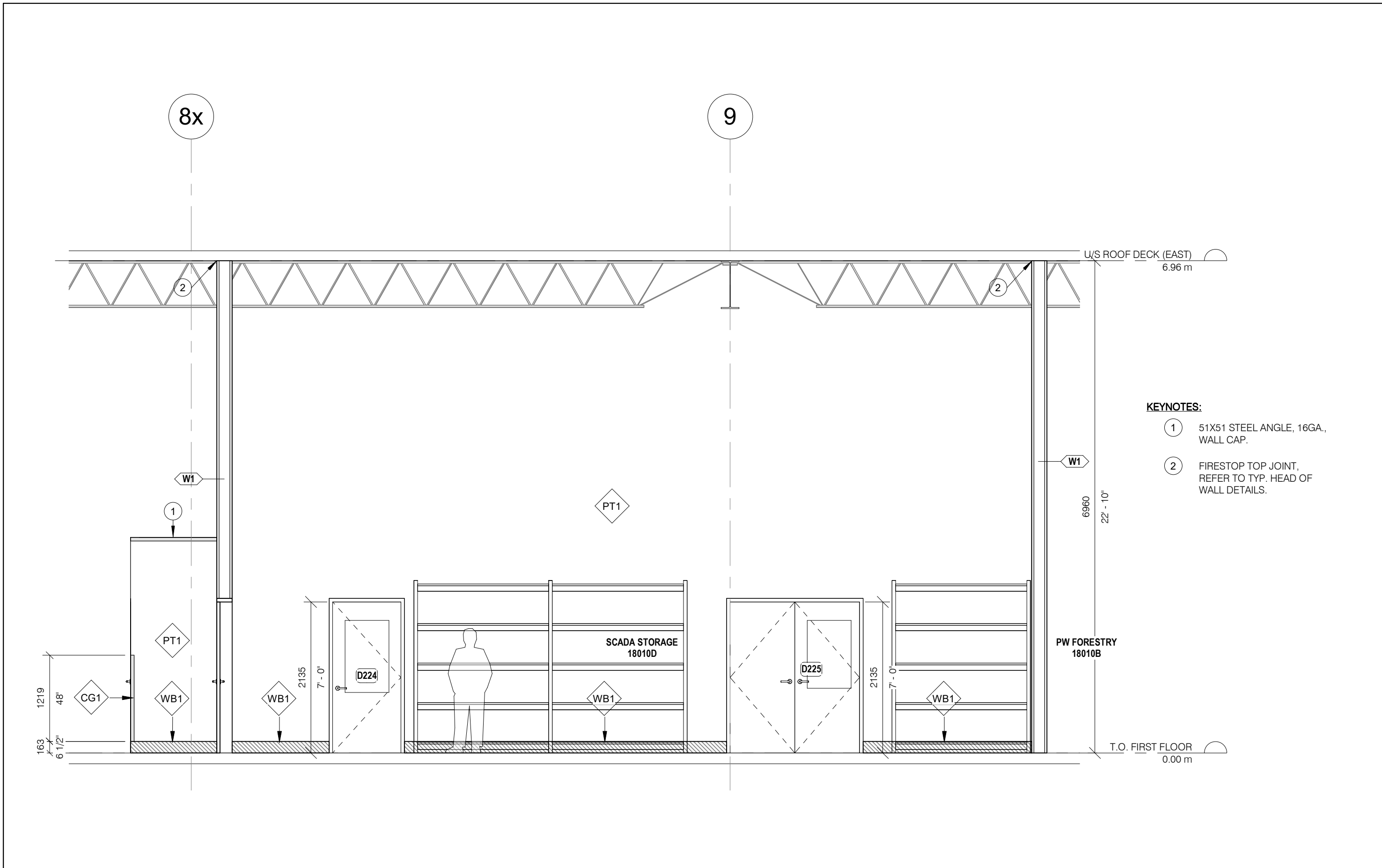




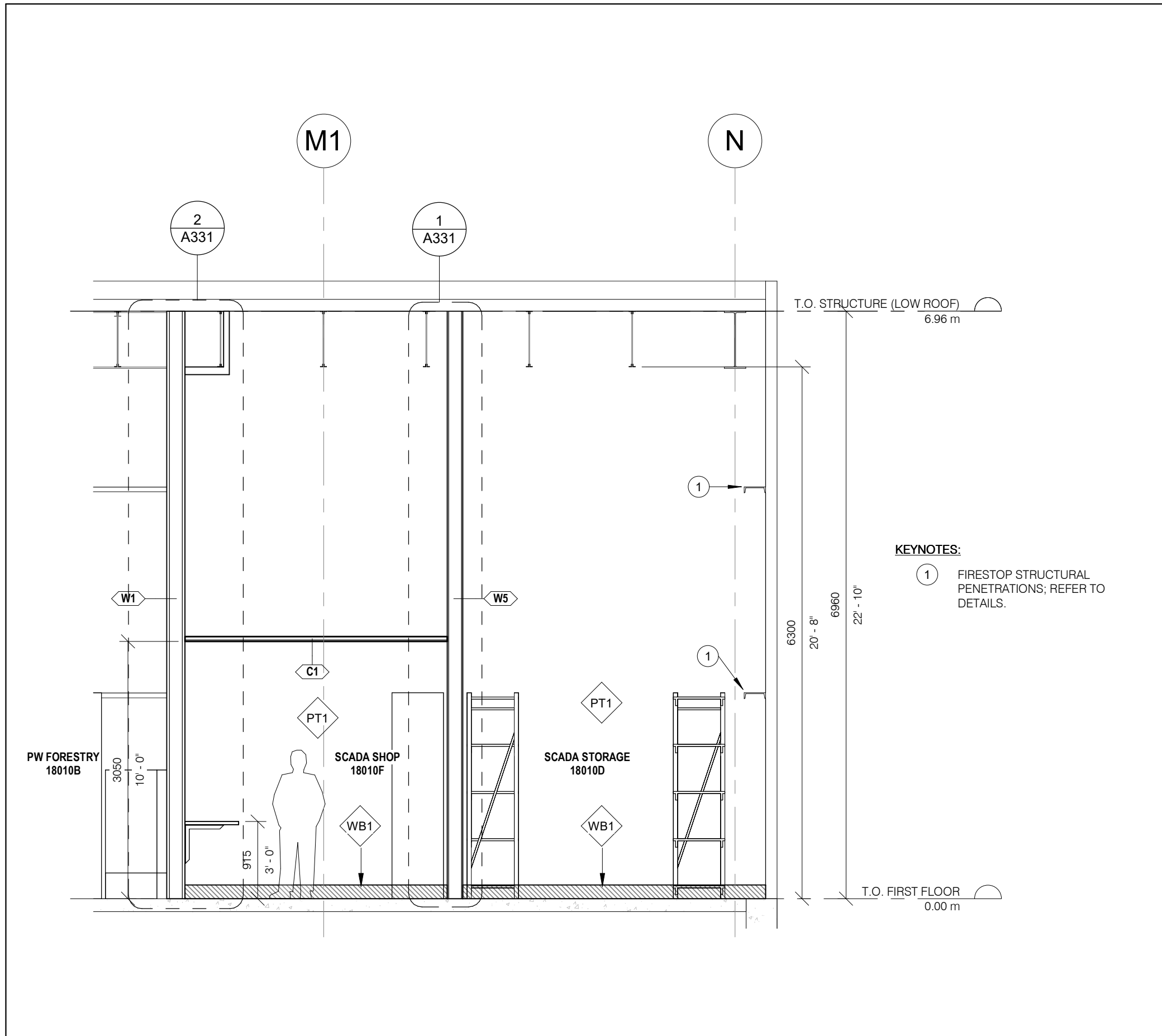
4 PW-SCADA SECTION IV  
A325 1 : 50



3 PW-SCADA SECTION III  
A325 1 : 50



2 PW-SCADA SECTION II  
A325 1 : 50



1 PW-SCADA SECTION I  
A325 1 : 50

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/ OWNERS 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.

KEYNOTES:

- 1 FIRE-RETARDANT PLYWOOD, PAINTABLE, PAINT BLACK.
- 2 FIRESTOP TOP JOINT, REFER TO TYP. HEAD OF WALL DETAILS.

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  
FIR 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

FINISHES LEGEND:

- PT# PAINT TYPE #:  
VARIES - SEE FINISH SCHEDULE
- CG1 CORNER GUARD TYPE 1:  
PAINTED STEEL - YELLOW
- CG2 CORNER GUARD TYPE 2:  
STAINLESS STEEL
- WB1 WALLBASE TYPE 1:  
PVC
- WP1 WALL PANEL TYPE 1:  
STAINLESS STEEL
- WP2 WALL PANEL TYPE 2:  
PVC

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:



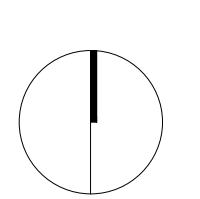
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PW-SCADA SECTIONS AND  
ELEVATIONS

ENTERED: LT.

CHECKED: D.C.

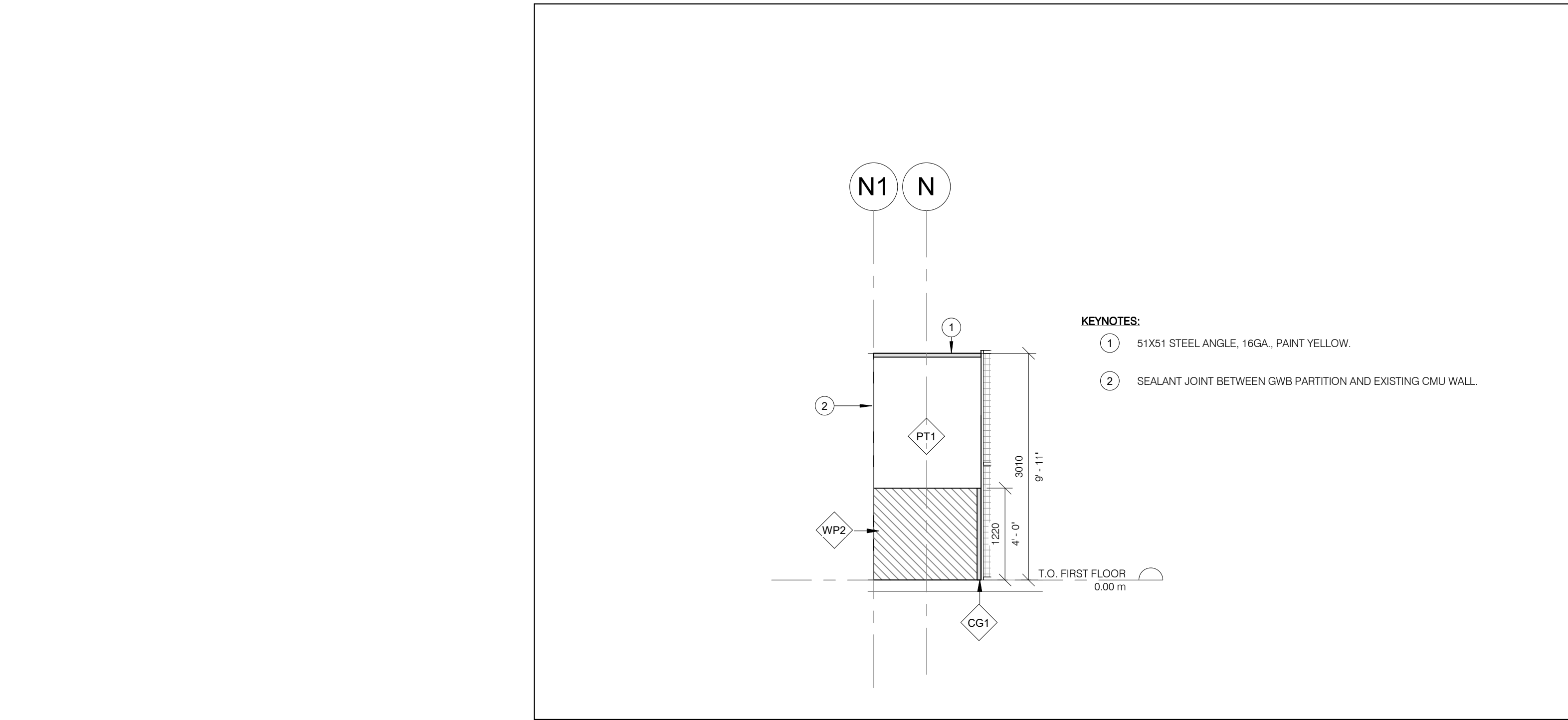
DATE: SEP.2024

PROJECT NO.

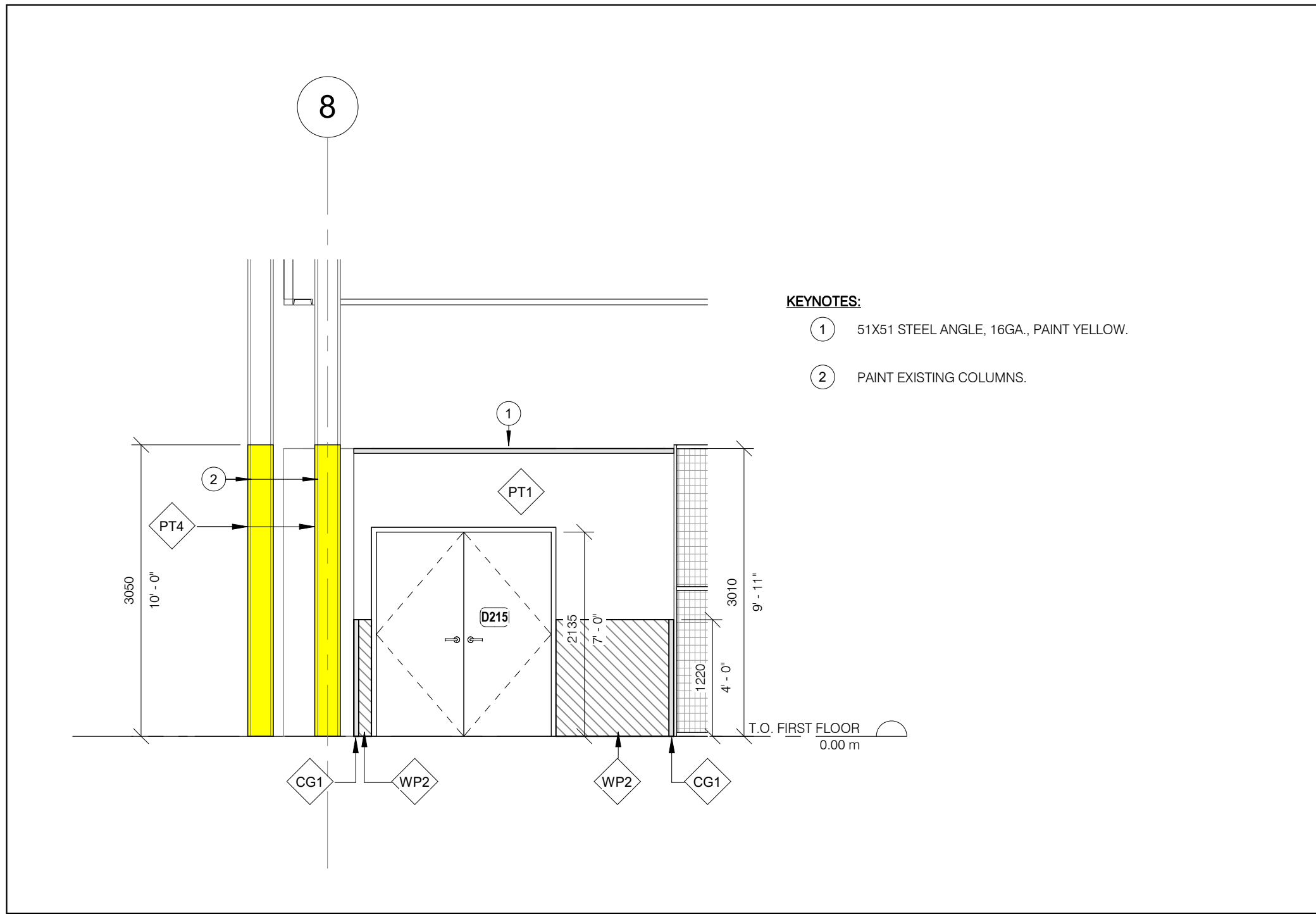
DRAWING NO.

A325

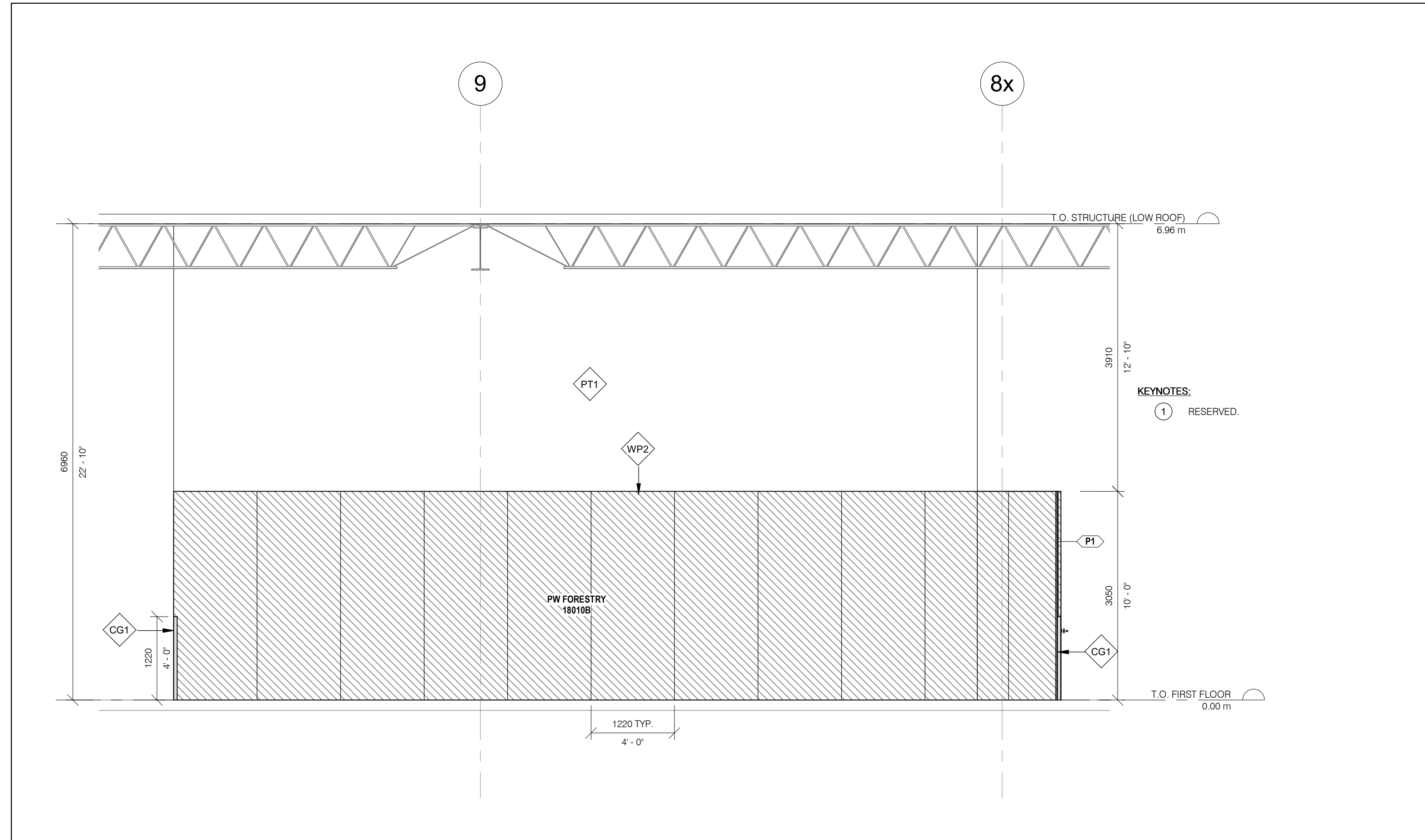
22-136



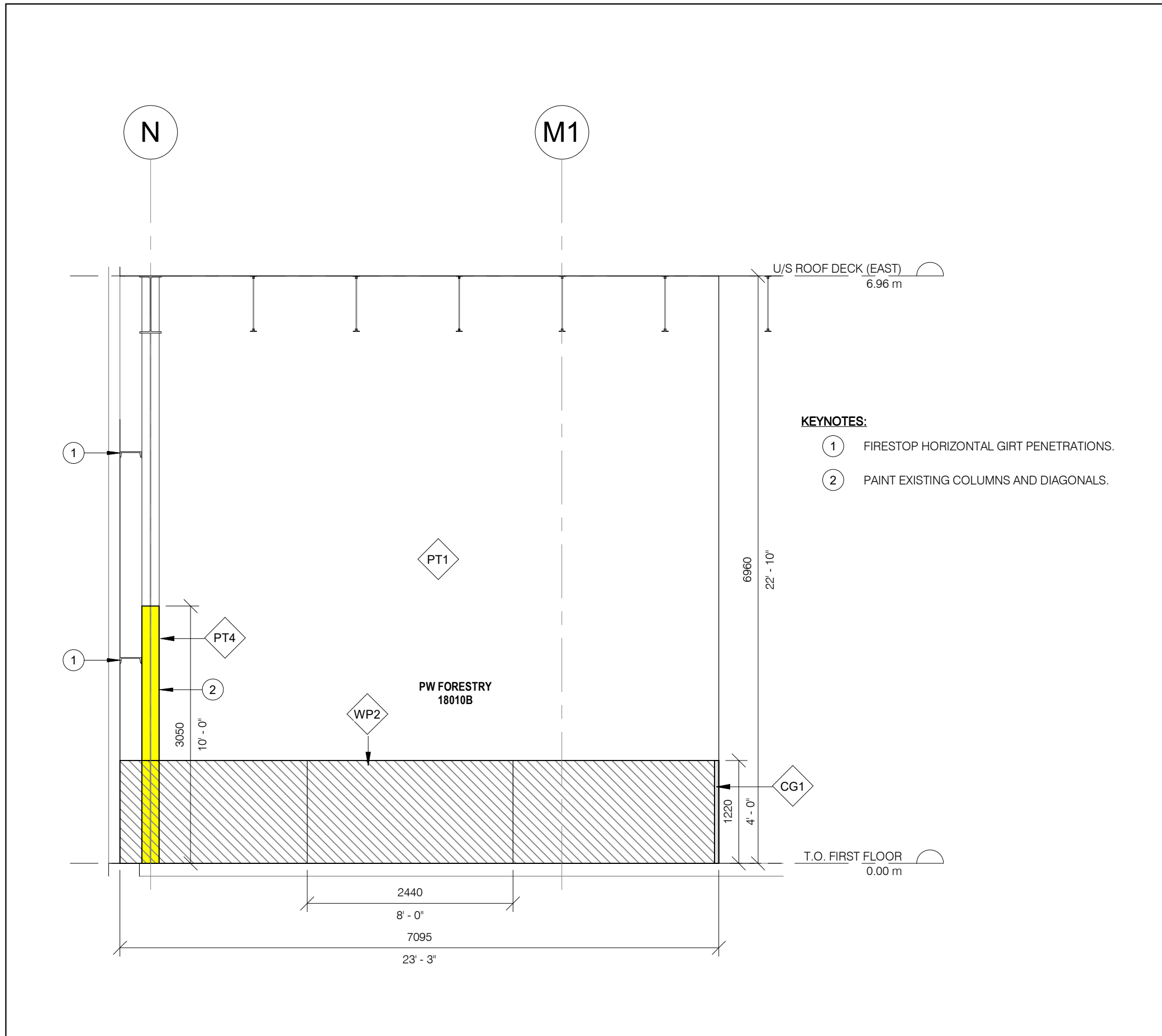
3 PW-LAUNDRY CLOSET EAST WALL ELEVATION  
A326 1 : 50



4 PW-LAUNDRY CLOSET NORTH WALL ELEVATION  
A326 1 : 50



2 PW-FORESTRY RACKING STORAGE SOUTH WALL ELEVATION  
A326 1 : 50



1 PW-FORESTRY SHOP WEST WALL ELEVATION  
A326 1 : 50

#### GENERAL CONSTRUCTION NOTES:

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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
CLG	CEILING
CLR	CLEAR
CW	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	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

#### FINISHES LEGEND:

	PT#	PAINT TYPE #: VARIES - SEE FINISH SCHEDULE
	CG1	CORNER GUARD TYPE 1: PAINTED STEEL - YELLOW
	CG2	CORNER GUARD TYPE 2: STAINLESS STEEL
	WB1	WALLBASE TYPE 1: PVC
	WP1	WALL PANEL TYPE 1: STAINLESS STEEL
	WP2	WALL PANEL TYPE 2: PVC

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED

#### REVISIONS

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DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



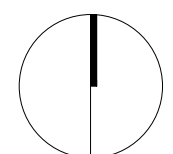
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



## PW-FORESTRY, LAUNDRY SECTIONS AND ELEVATIONS

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

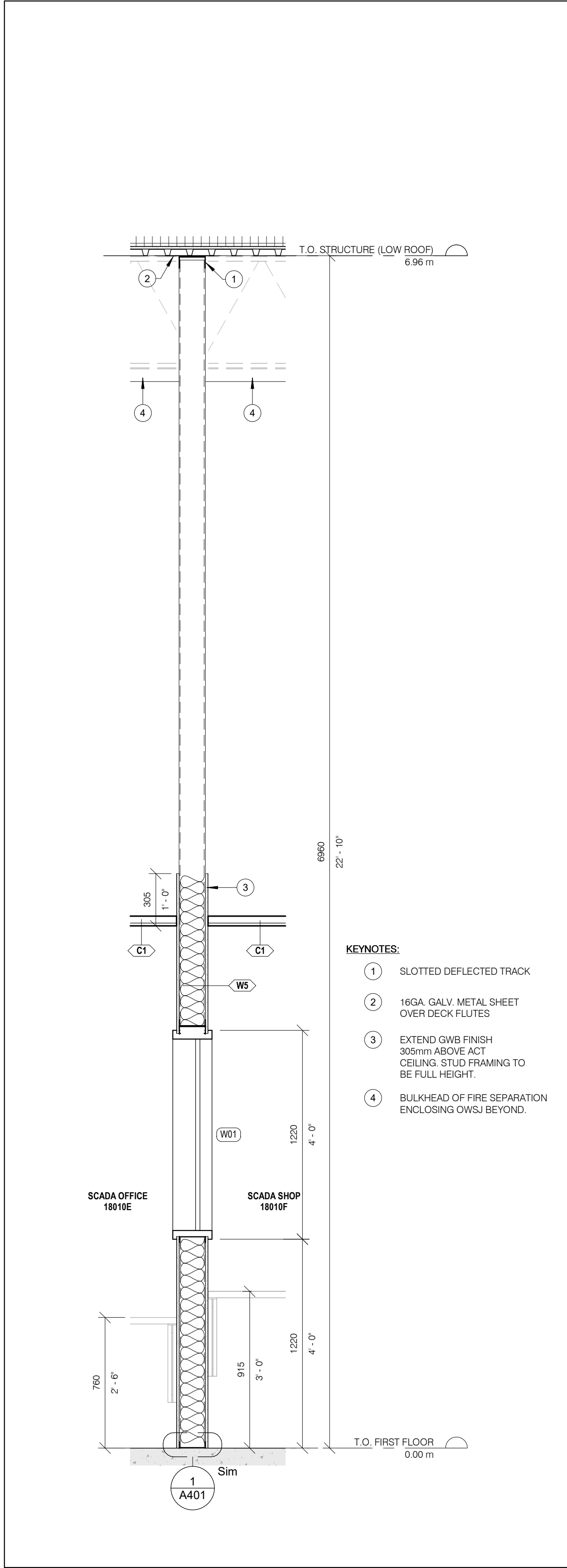
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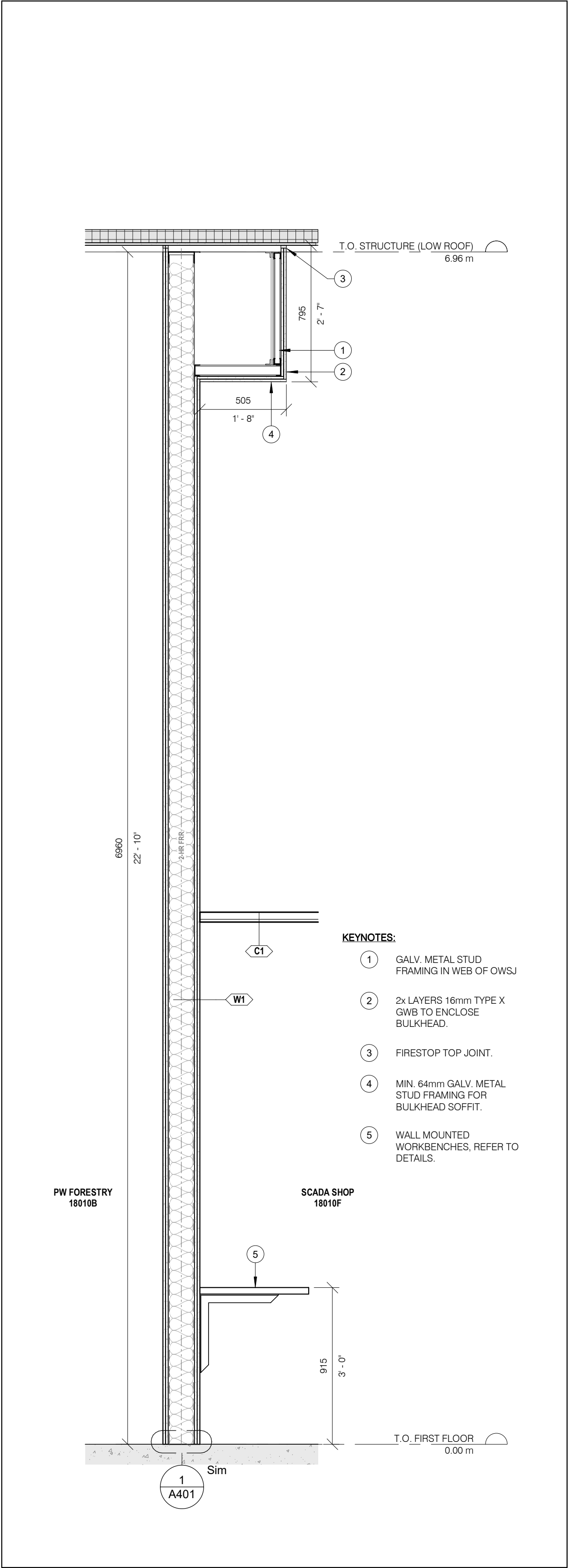
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22-136

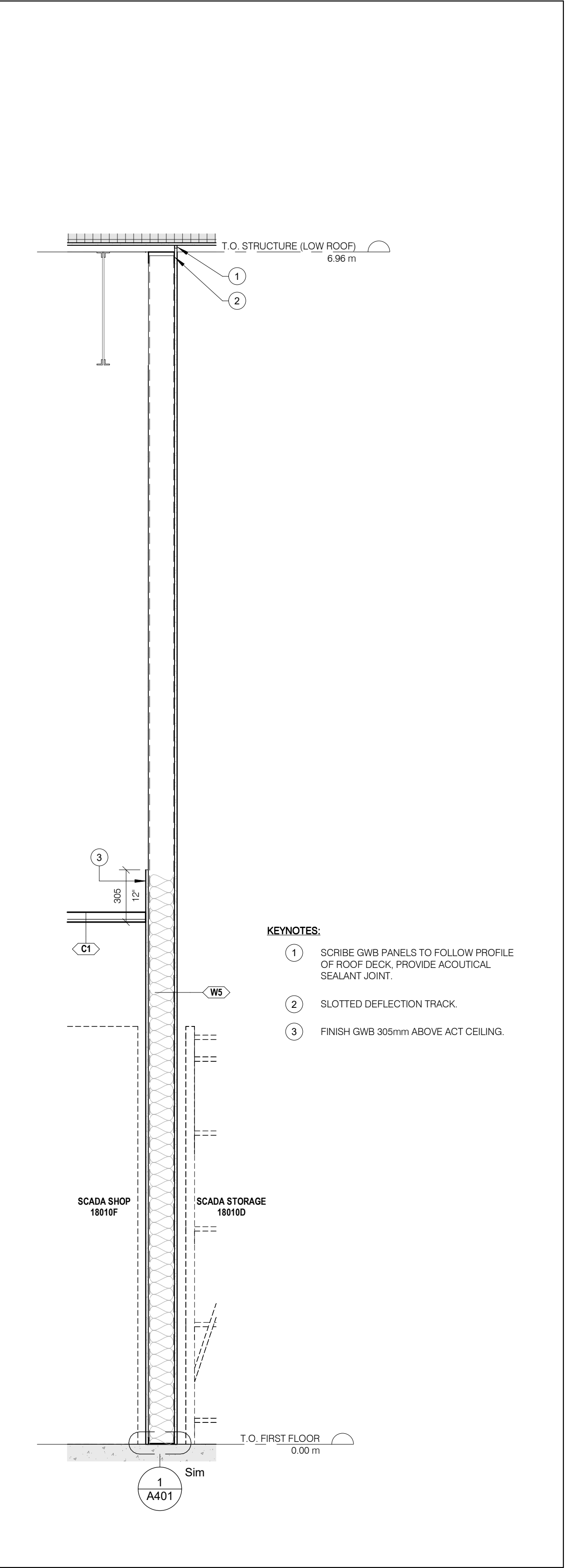




3 PW-SCADA OFFICE/SHOP WALL SECTION  
A331 1 : 20



2 PW-SCADA OFFICE, SHOP/PW-FORESTRY WALL SECTION  
A331 1 : 20



1 PW-SCADA OFFICE, SHOP/STORAGE WALL SECTION  
A331 1 : 20

**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.

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ABBREVIATIONS	
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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
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LS	LIGHT STANDARD
NTS	NOT TO SCALE
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OC	ON CENTRE
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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

1	2024/10/02	ISSUED FOR TENDER
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REVISIONS		

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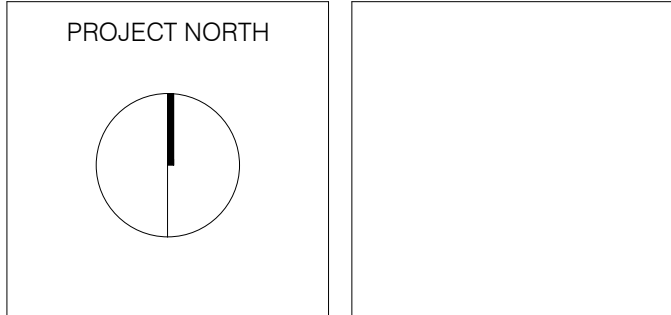
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**HWP WAREHOUSE UPGRADE**

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



**PW-SCADA WALL SECTIONS**

ENTERED: L.T.	DRAWING NO.
CHECKED: D.C.	A331
DATE: SEP.2024	
PROJECT NO.	
22-136	

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NO.	DATE	ISSUED
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DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



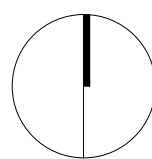
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



## PW LAUNDRY, WR CLOSET WALL SECTIONS

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP.2024

PROJECT NO.

DRAWING NO.

**A332**

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.

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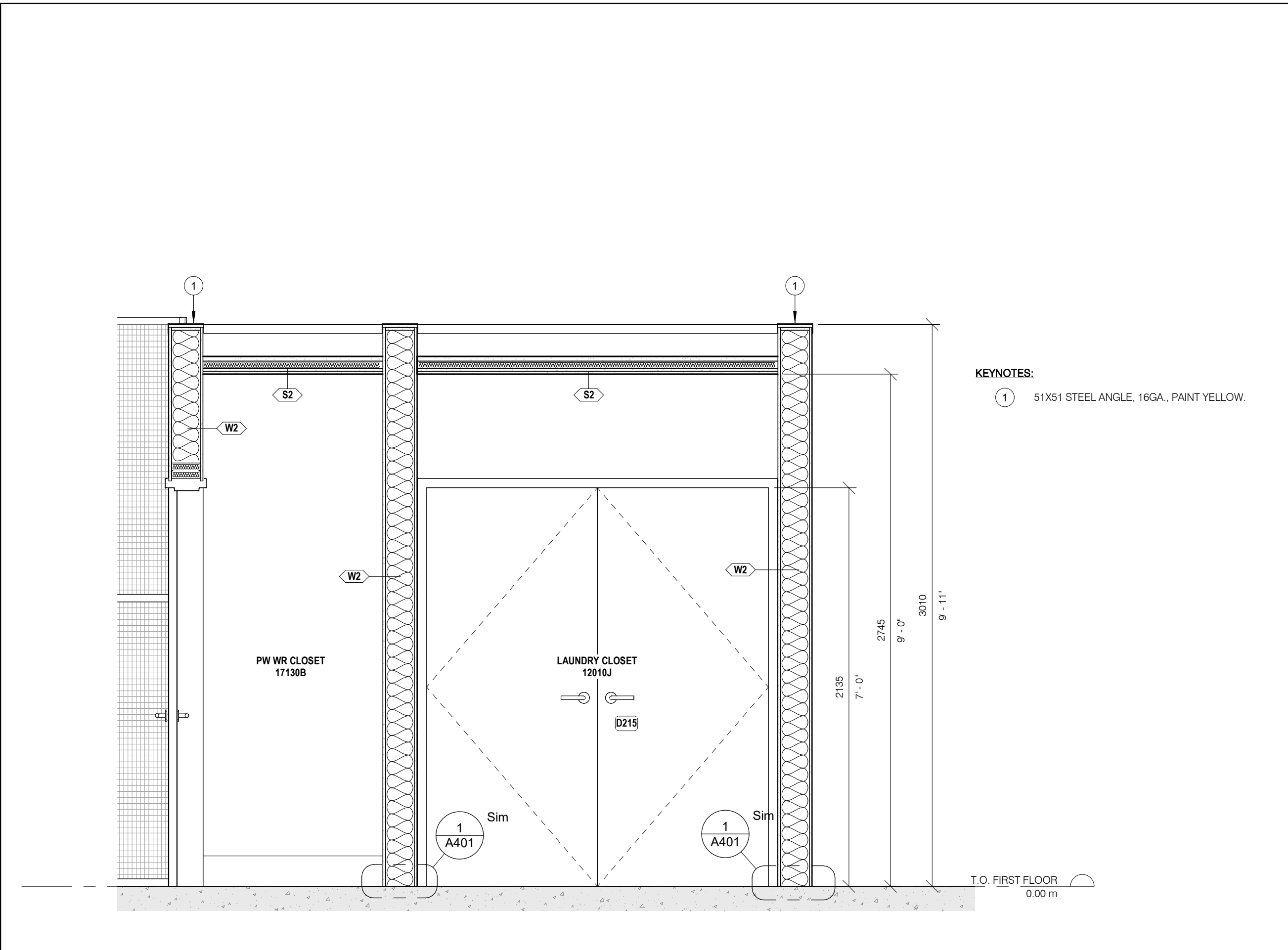
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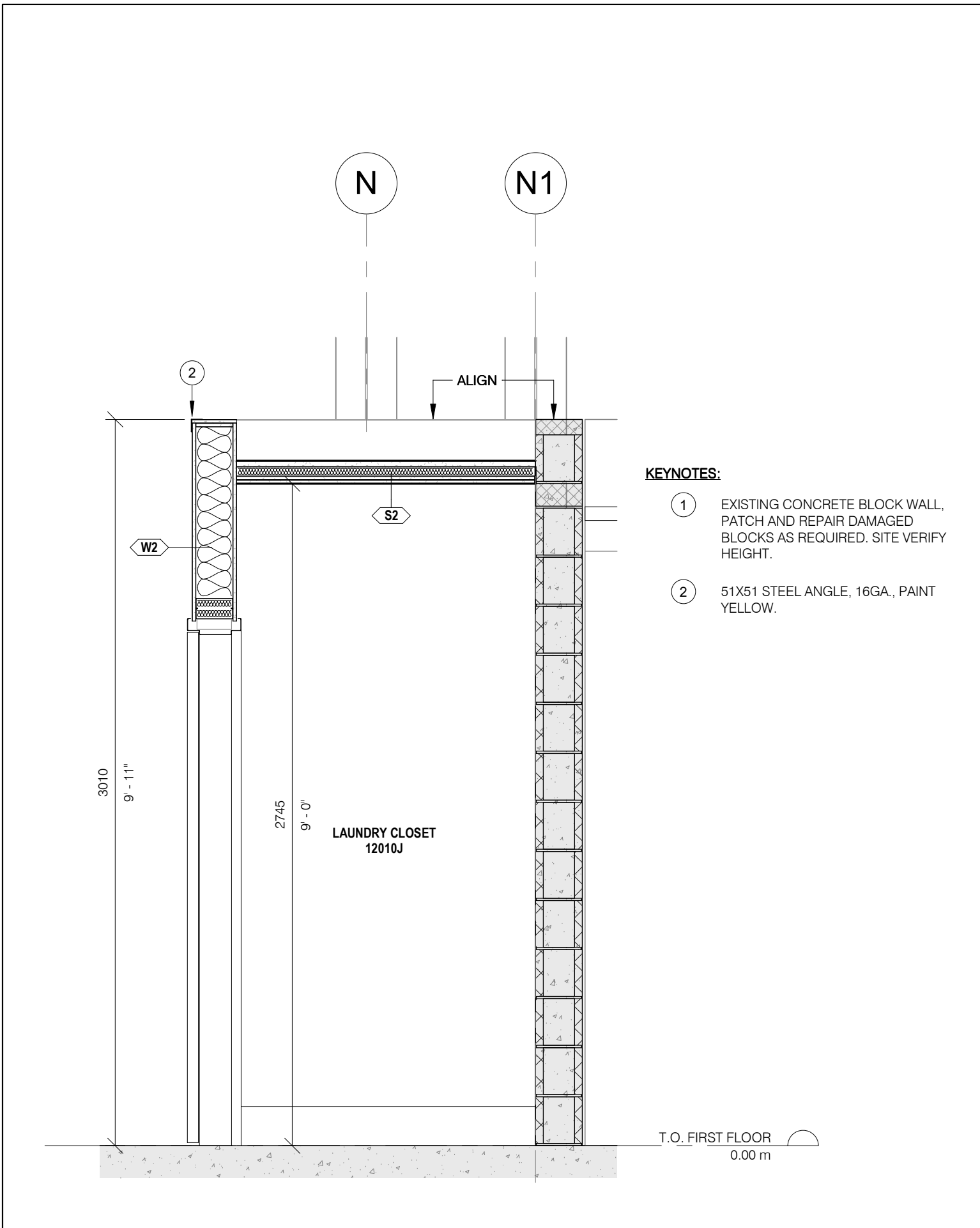
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W/C	WATER CLOSET

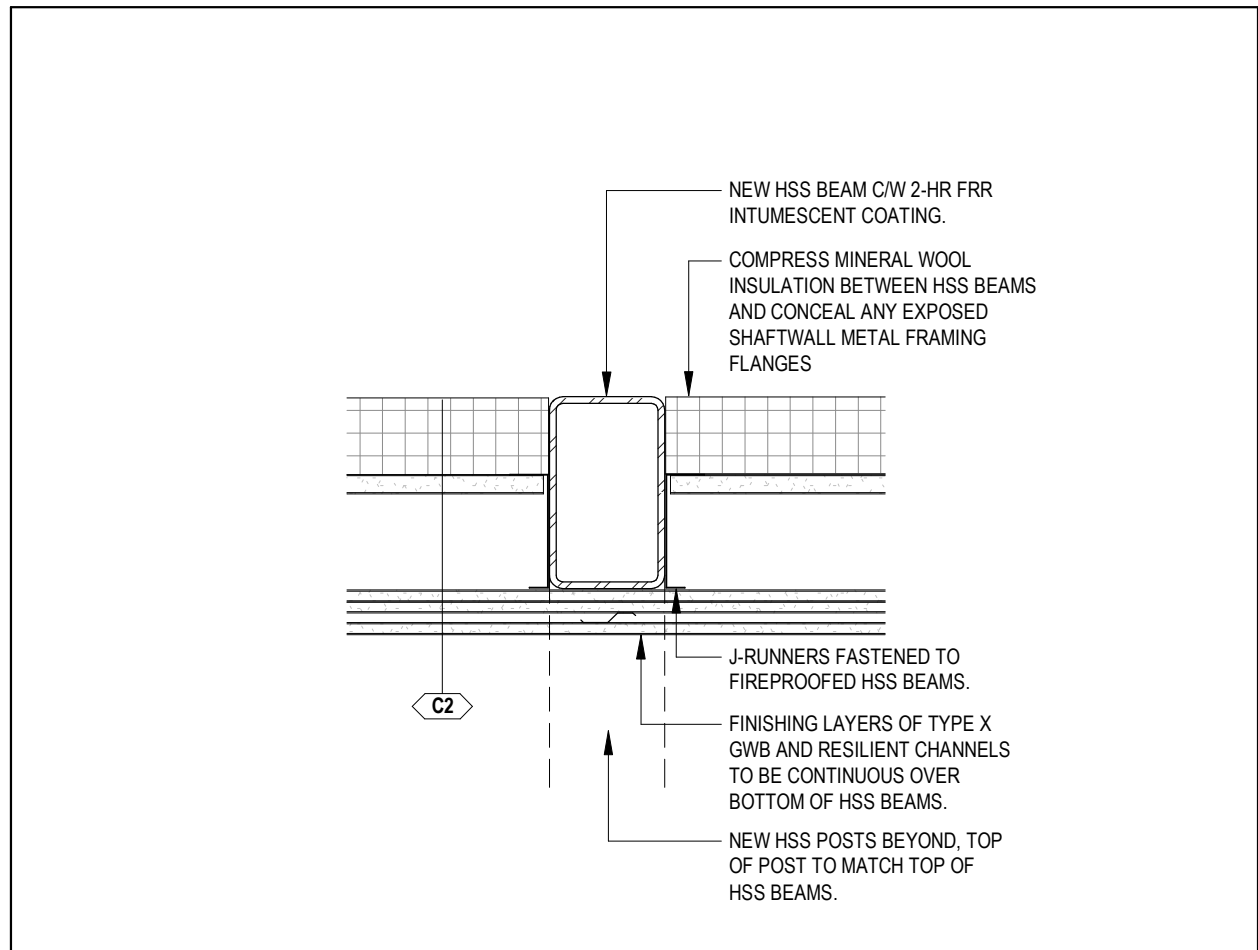


**2**  
A332 PW LAUNDRY CLOSET/ PW-WR CLOSET  
1 : 20

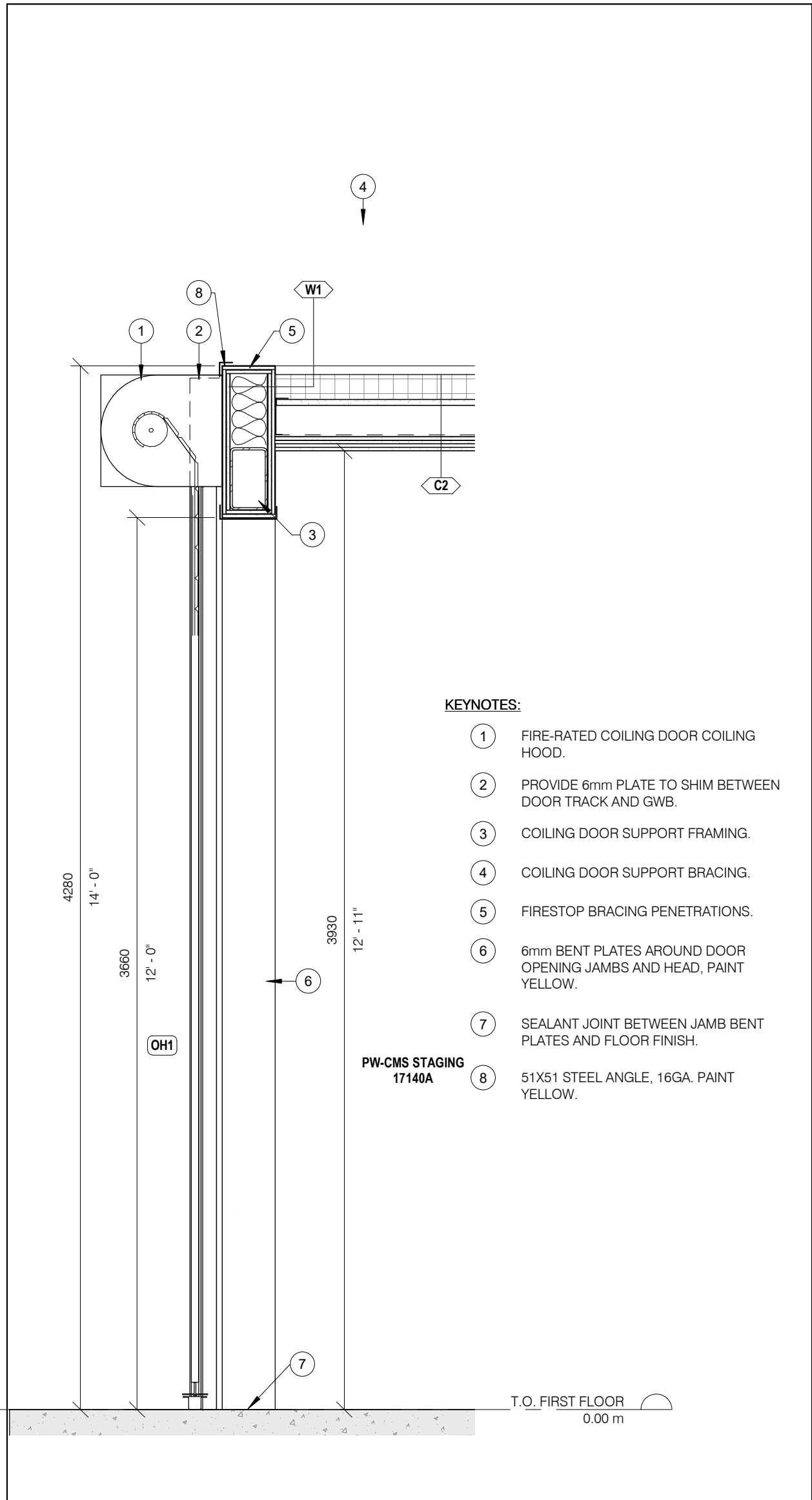


**1**  
A332 PW LAUNDRY CLOSET WALL SECTION  
1 : 20

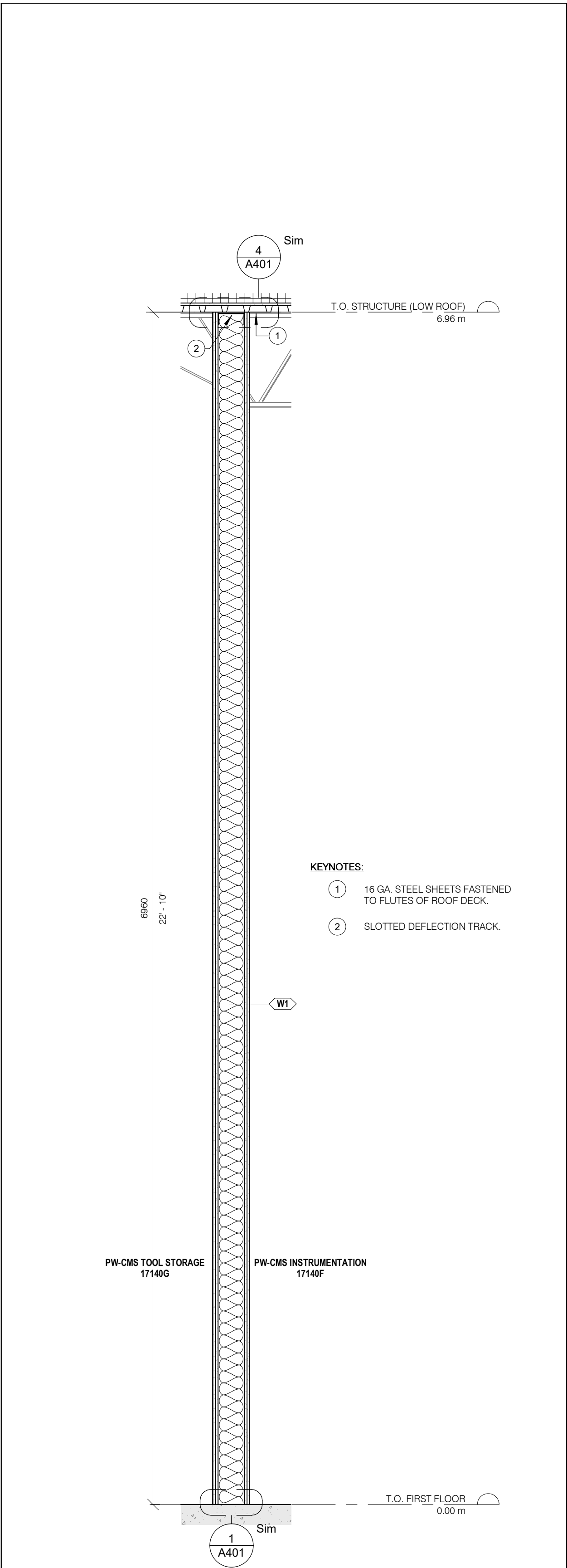




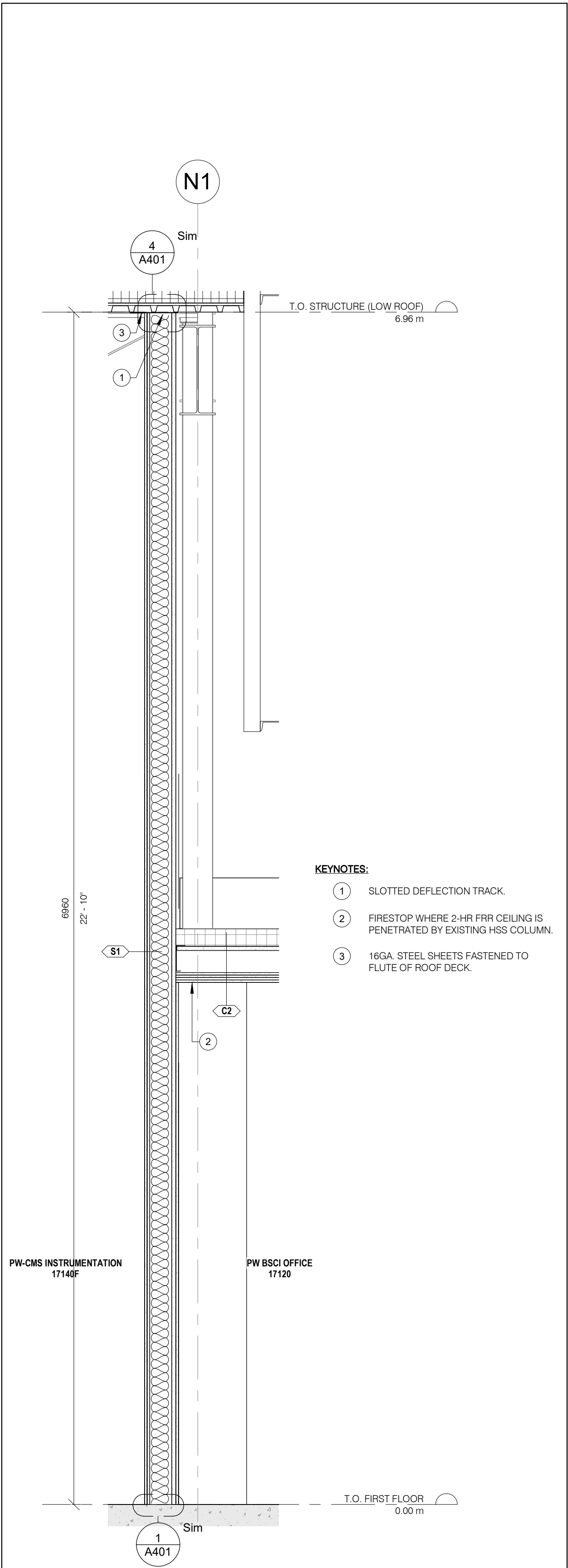
5 PW-CMS STAGING C2 SUPPORT DETAIL  
A341 1 : 10



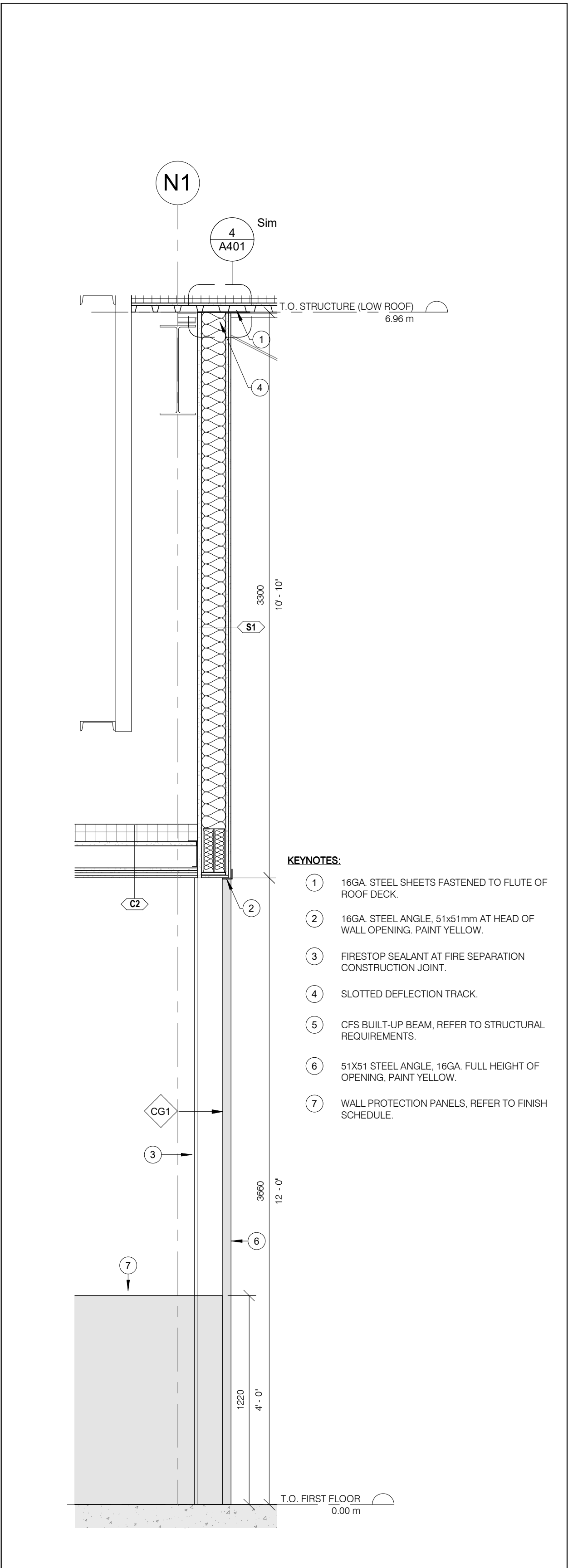
4 PW-CMS STAGING/PW RACKING STORAGE WALL SECTION  
A341 1 : 20



3 PW-CMS TOOL STORAGE/INSTRUMENTATION WALL SECTION  
A341 1 : 20



2 PW-CMS INSTRUMENTATION/PW-BSCI WALL SECTION  
A341 1 : 20



1 PW-CMS WORKSHOP GRID N1 WALL SECTION  
A341 1 : 20

#### GENERAL CONSTRUCTION NOTES:

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C/W	COMPLETE WITH
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FLR	FLOOR
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GALV	GALVANIZED
GWB	GYPSSUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
OBG	ONTARIO BUILDING CODE
OC	ON CENTRE
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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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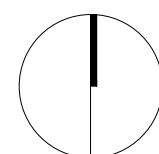
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



## PW-CMS WORKSHOP WALL SECTIONS

ENTERED: LT.

CHECKED: D.C.

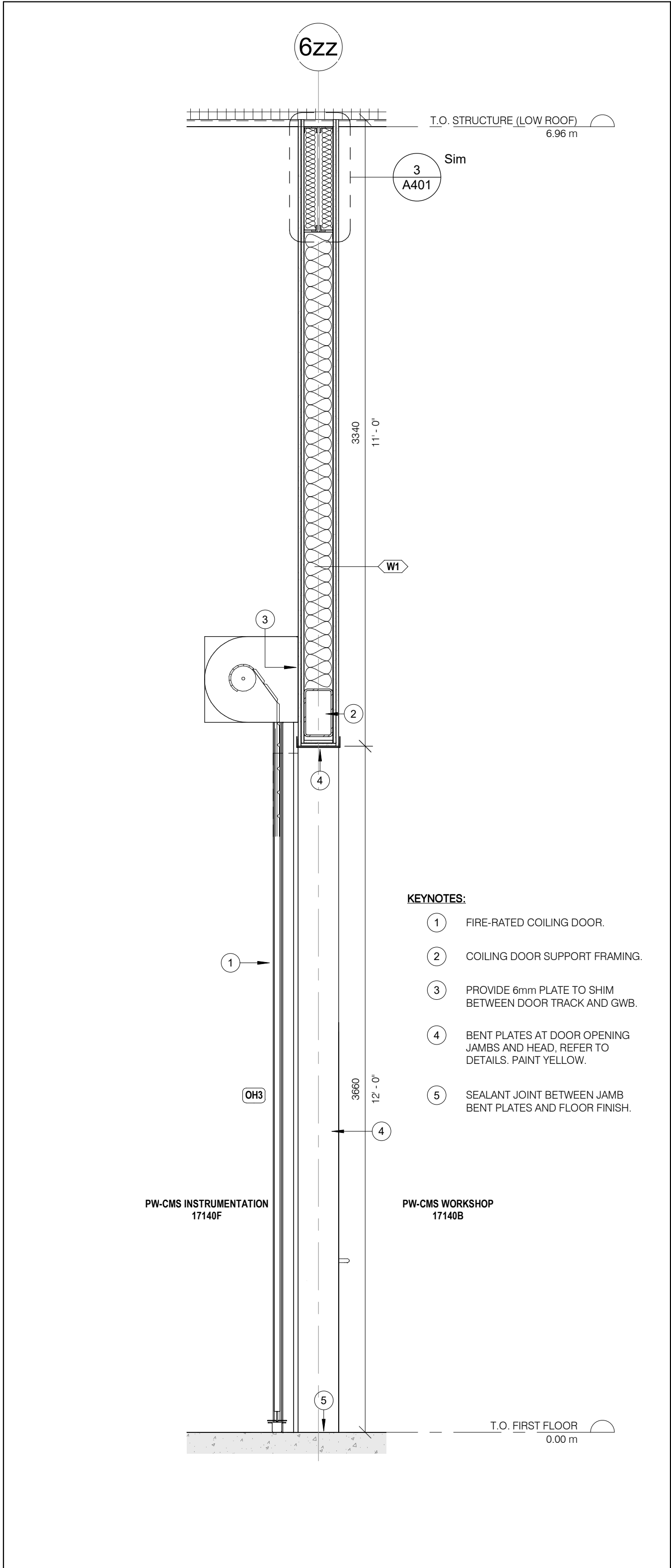
DATE: SEP 2024

PROJECT NO.

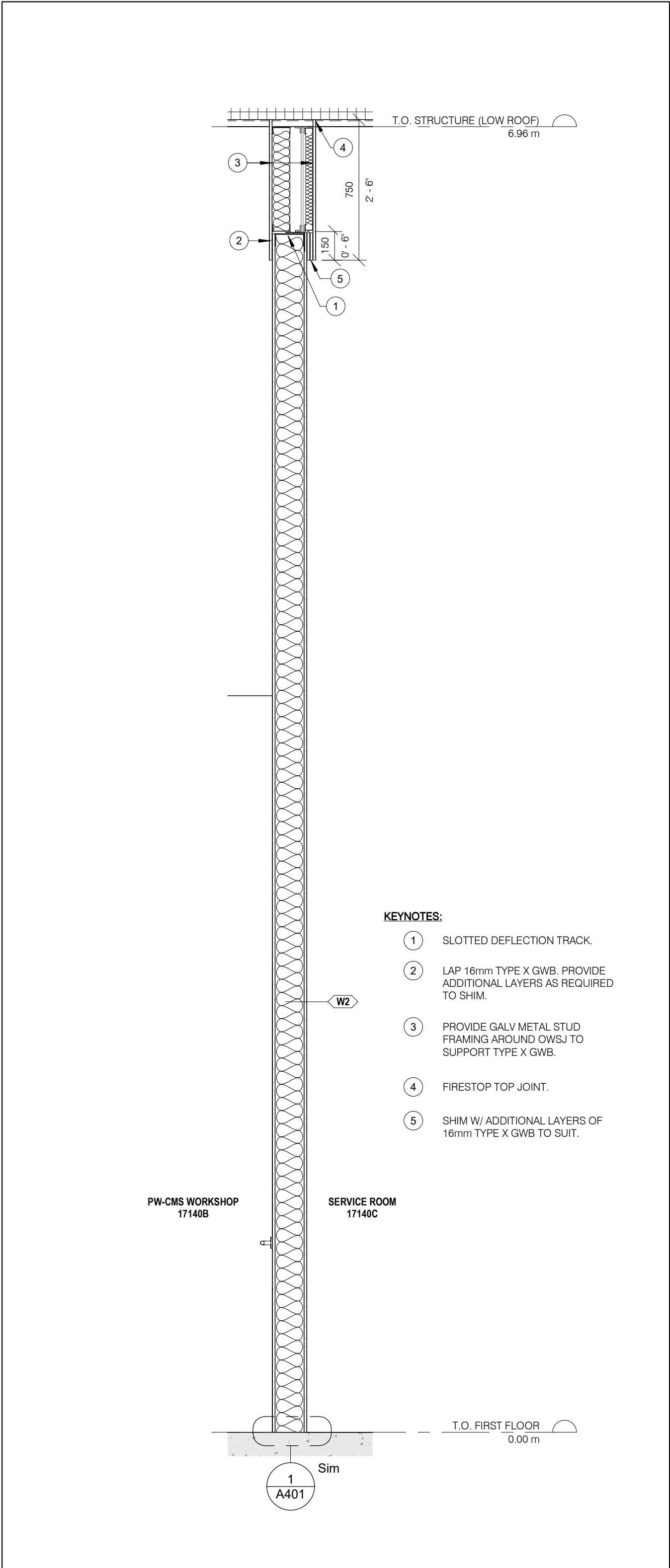
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**A341**

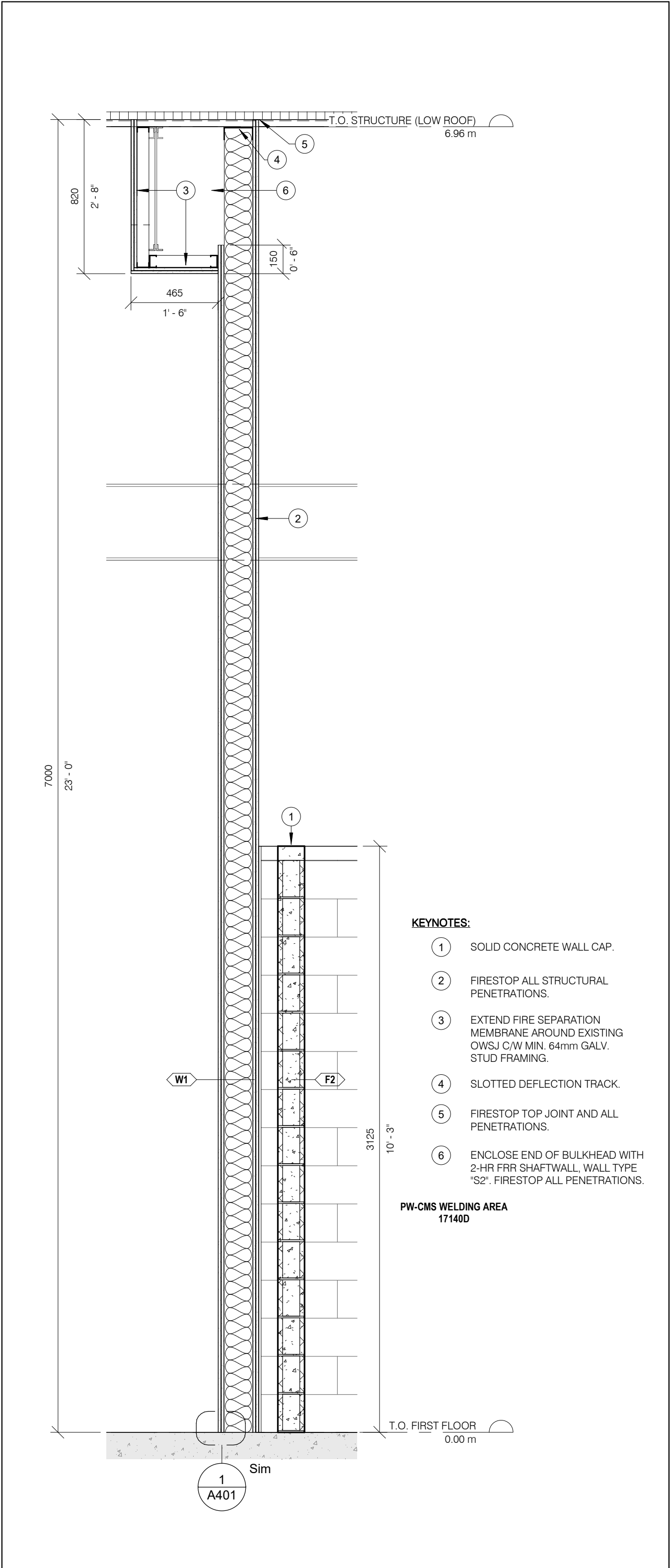
22-136



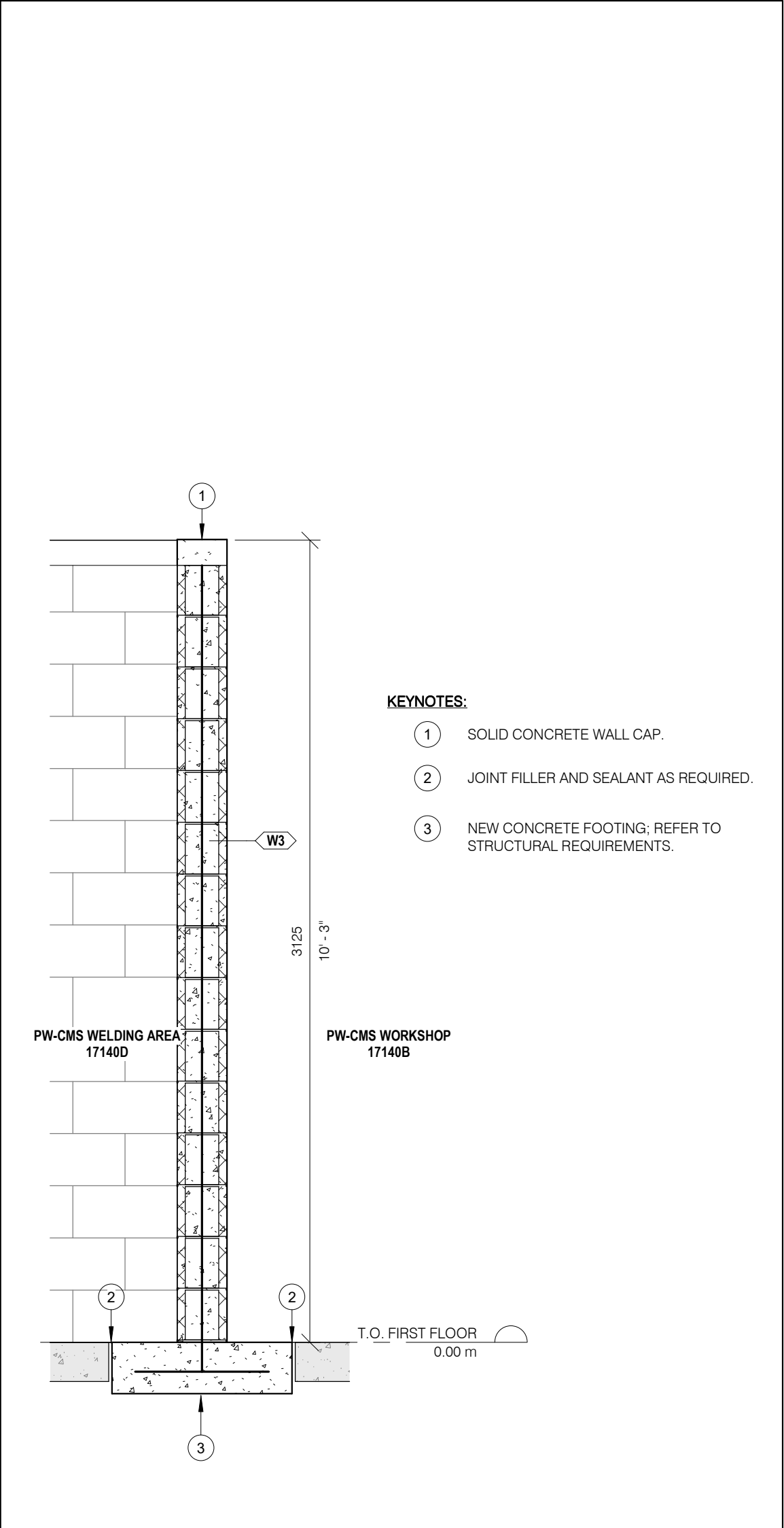
4 PW-CMS INSTRUMENTATION/WORKSHOP WALL SECTION  
A342 1 : 20



3 PW-CMS WORKSHOP/ SERVICE ROOM WALL SECTION  
A342 1 : 20



2 PW-CMS WELDING AREA/ CORRIDOR WALL SECTION  
A342 1 : 20



1 PW-CMS WELDING AREA WALL SECTION  
A342 1 : 20

**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
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	GYPSSUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
LS	LIGHT STANDARD
NTS	NOT TO SCALE
OBG	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
US	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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CLIENT:

ARCHITECT:  
  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:

STRUCTURAL ENGINEERING:

**HWP WAREHOUSE  
UPGRADE**

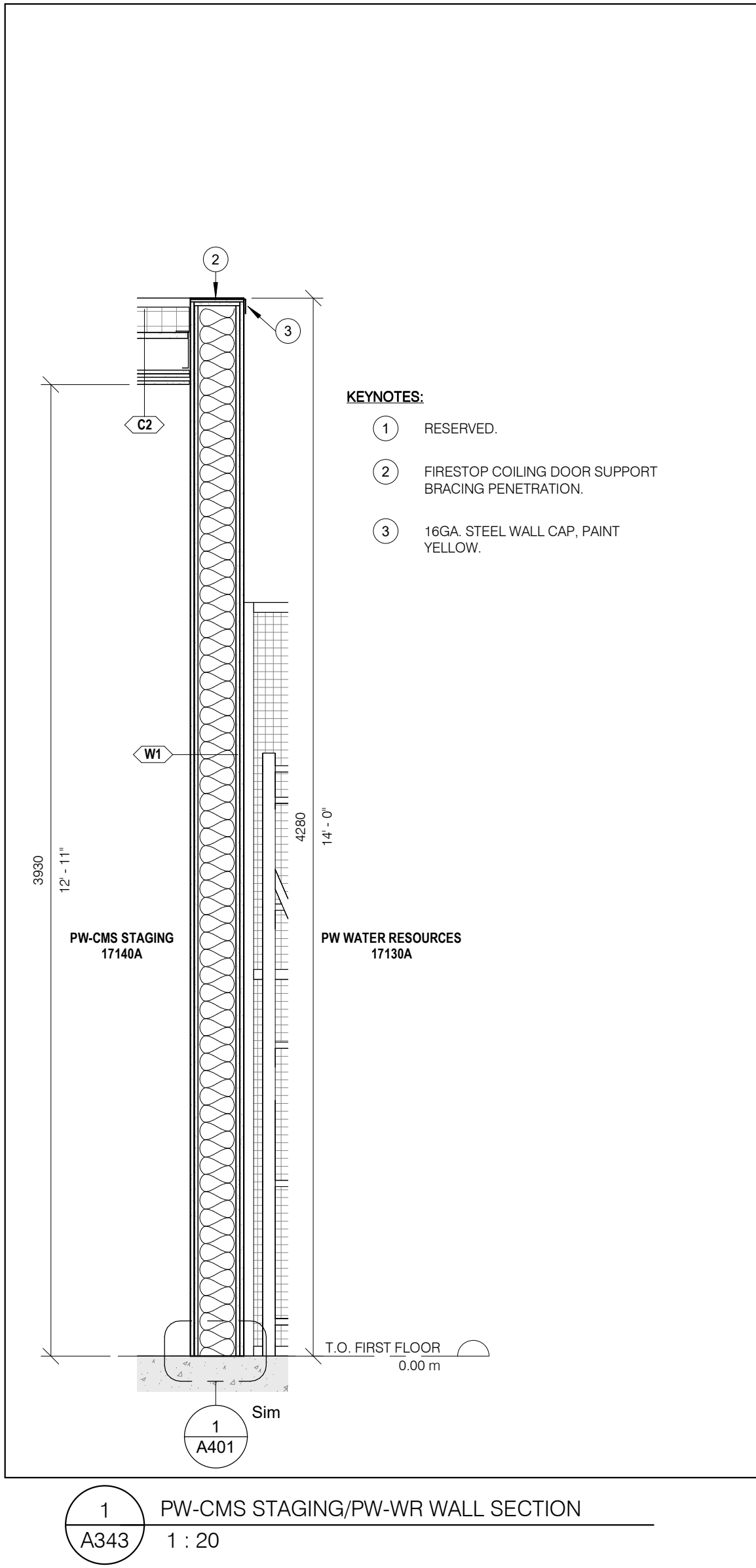
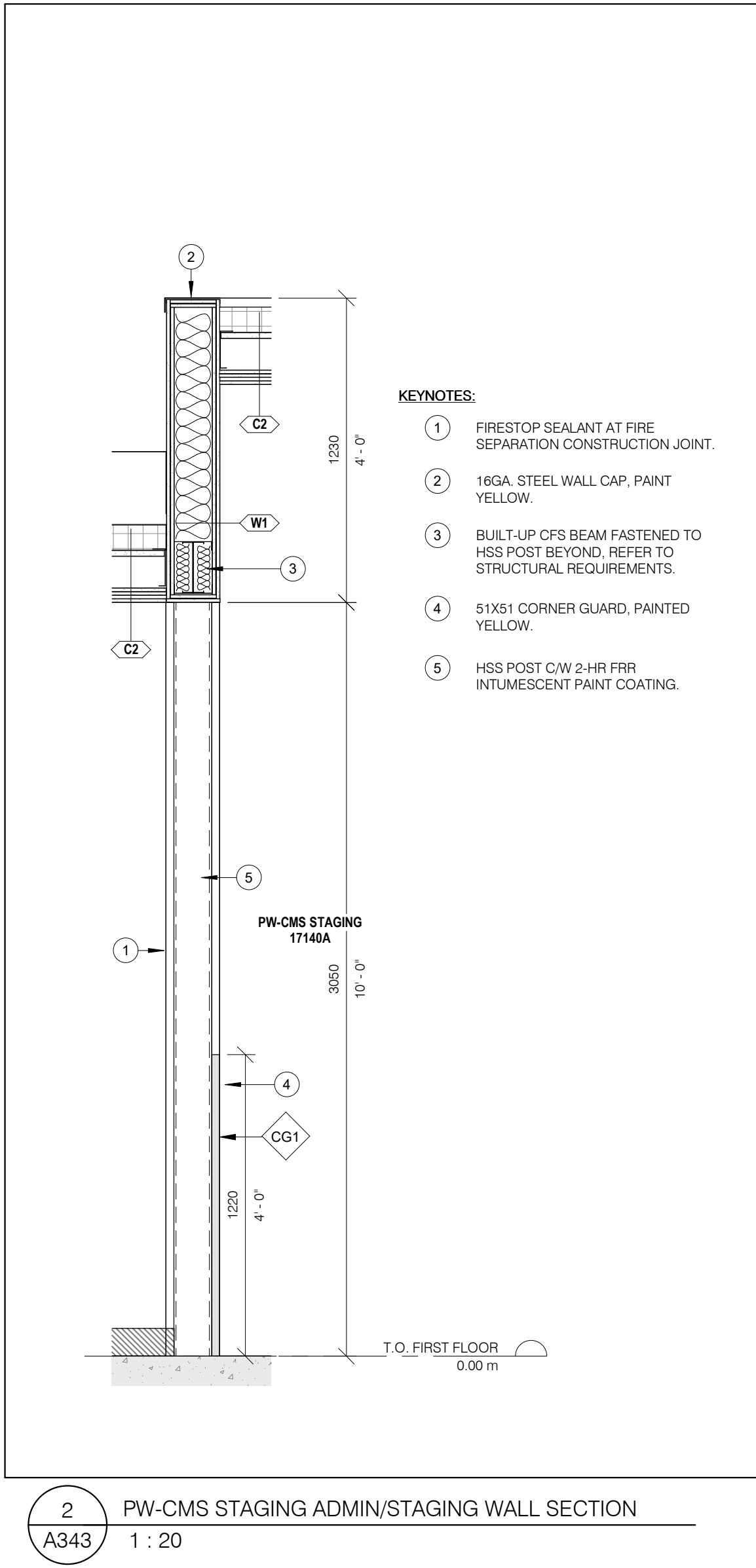
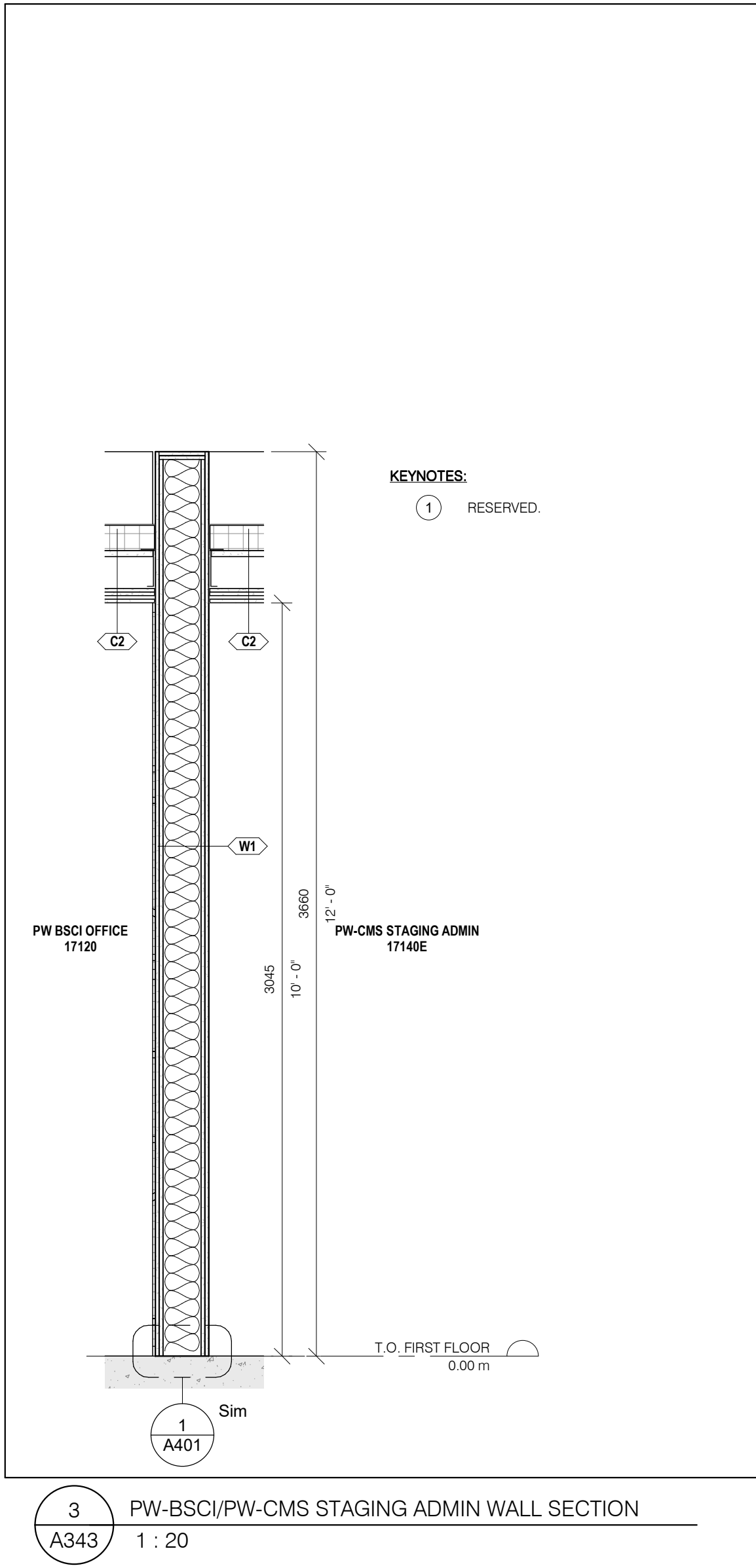
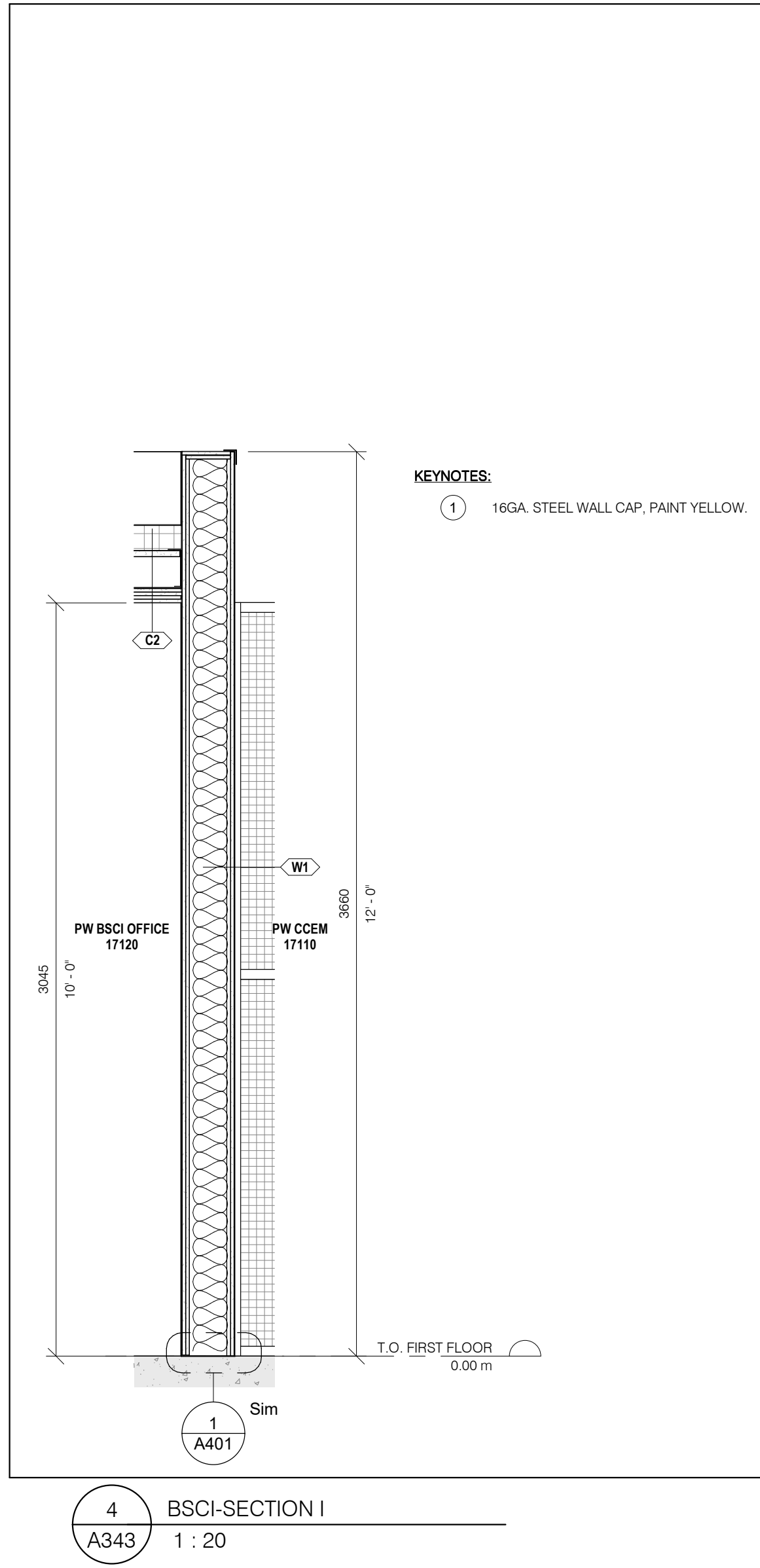
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH

**PW-CMS WORKSHOP WALL  
SECTIONS II**

ENTERED: LT.	DRAWING NO.
CHECKED: D.C.	A342
DATE: SEP.2024	
PROJECT NO.	
22-136	





**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.

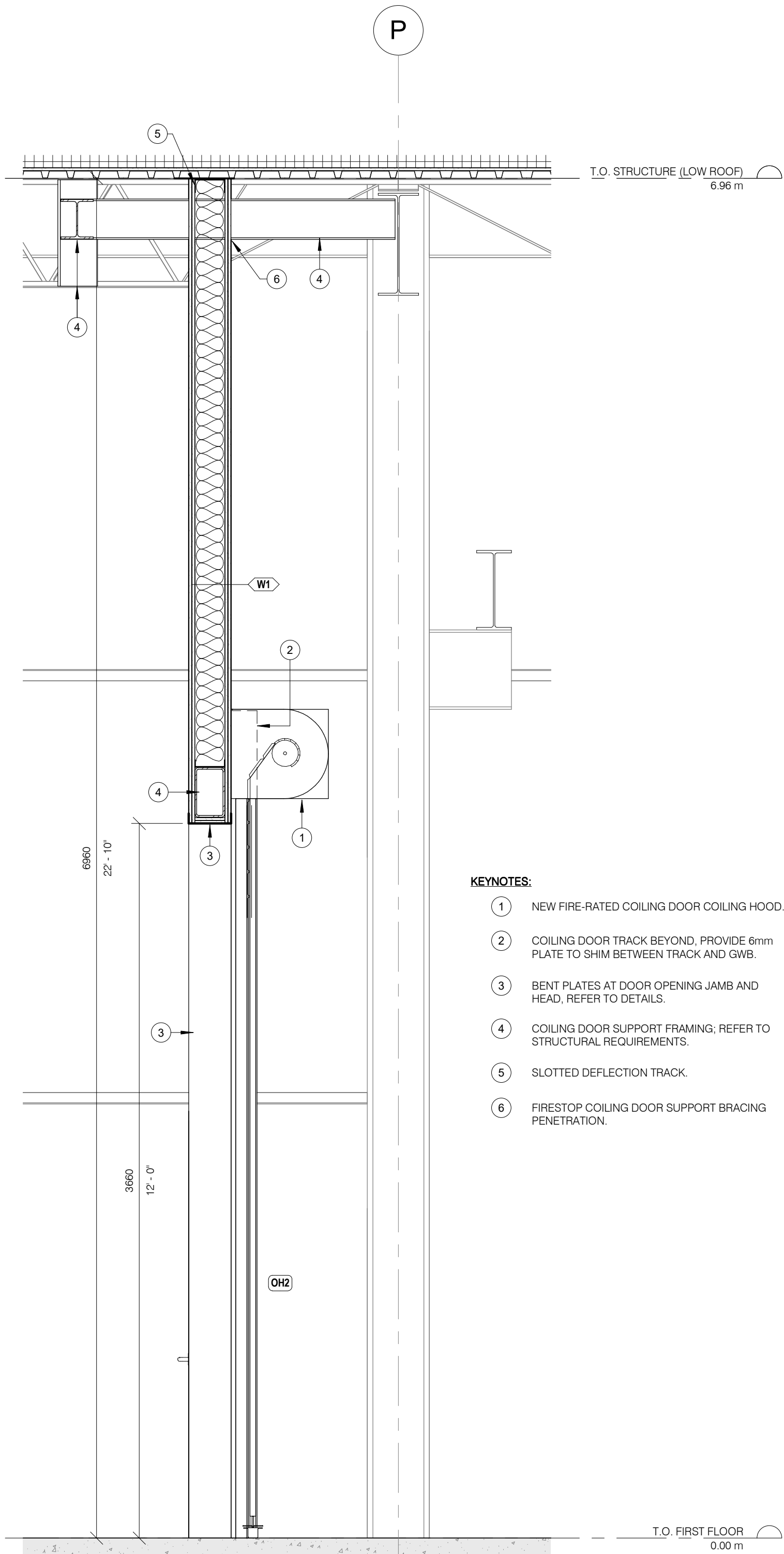
E. SUBMIT SHOP DRAWINGS FOR ALL MISC. METALS AND STRUCTURAL STEEL DESIGNS IN ACCORDANCE W/ SPECIFICATION REQUIREMENTS. DO NOT FABRICATE PRIOR TO REVIEW AND ACCEPTANCE OF SHOP DRAWING SUBMITTALS.

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
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FD	FLOOR DRAIN
FIN	FINISH
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GWB	GYPSPUM WALL BOARD
HT	HEIGHT
HM	HOLLOW METAL
HYD	HYDRANT
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NTS	NOT TO SCALE
OBG	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

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		
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CLIENT: 		
ARCHITECT: 		
MECHANICAL & ELECTRICAL ENGINEERING: 		
STRUCTURAL ENGINEERING: 		
HWP WAREHOUSE UPGRADE 145 Harry Walker Parkway Newmarket, ON L3Y 7B3		
PROJECT NORTH 		
PW-CMS WORKSHOP WALL SECTIONS III		
ENTERED: L.T.	DRAWING NO.	
CHECKED: D.C.	A343	
DATE: SEP.2024		
PROJECT NO.		
22-136		



- KEYNOTES:**
- 1 NEW FIRE-RATED COILING DOOR COILING HOOD.
  - 2 COILING DOOR TRACK BEYOND, PROVIDE 6mm PLATE TO SHIM BETWEEN TRACK AND GWB.
  - 3 BENT PLATES AT DOOR OPENING JAMB AND HEAD, REFER TO DETAILS.
  - 4 COILING DOOR SUPPORT FRAMING, REFER TO STRUCTURAL REQUIREMENTS.
  - 5 SLOTTED DEFLECTION TRACK.
  - 6 FIRESTOP COILING DOOR SUPPORT BRACING PENETRATION.

**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
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AL	ALUMINUM
BLK	BLOCK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
CL	CENTRE LINE
CLG	CEILING
CLR	CLEAR
C/W	COMPLETE WITH
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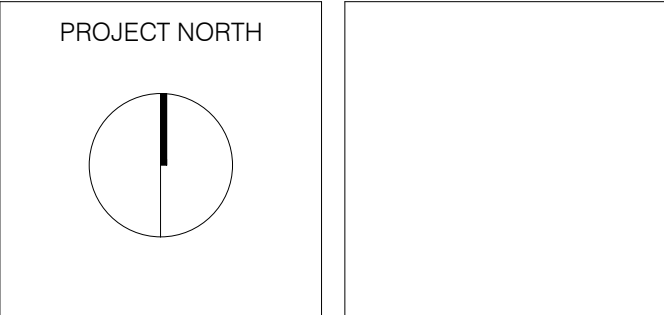
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**HWP WAREHOUSE  
UPGRADE**

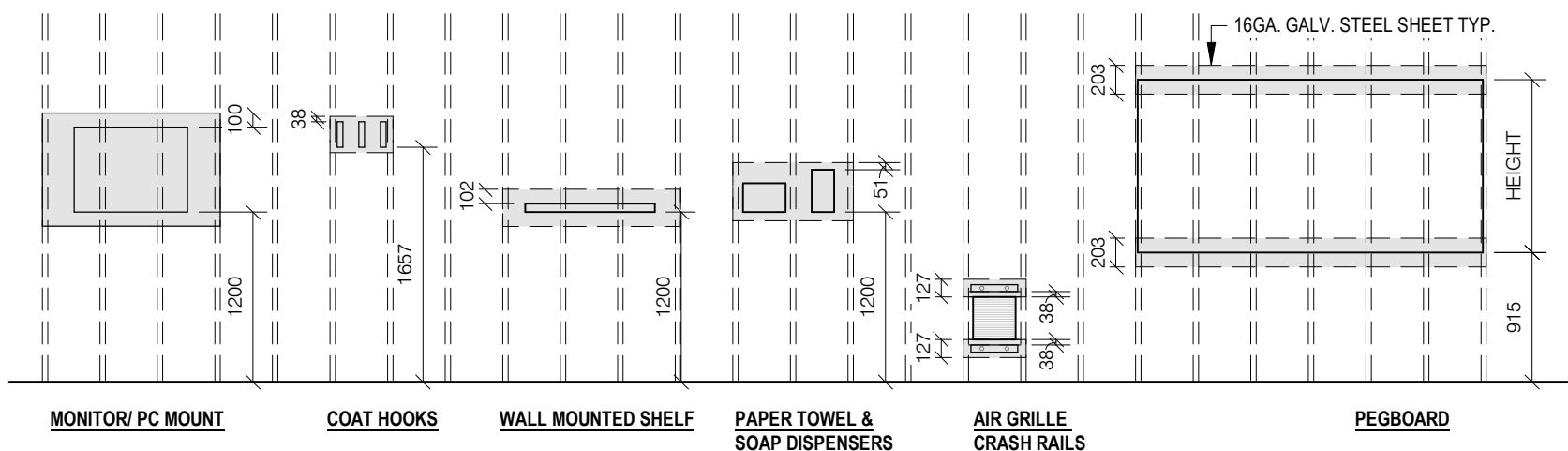
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3



**PW-CMS WORKSHOP WALL  
SECTIONS IV**

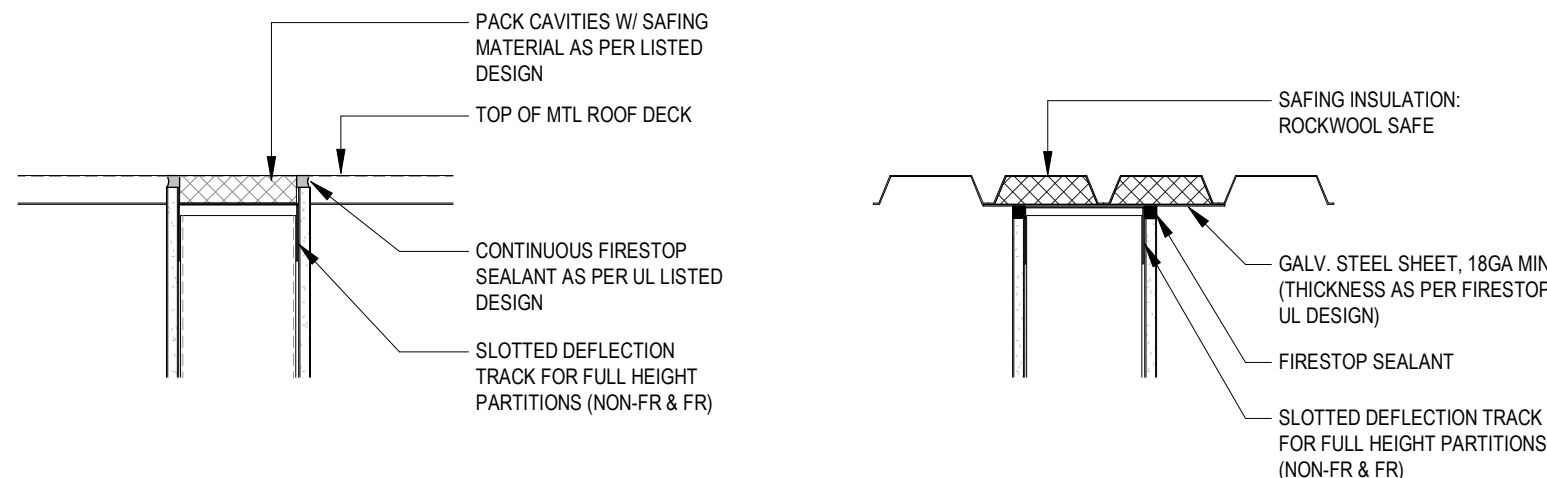
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CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	
22-136	





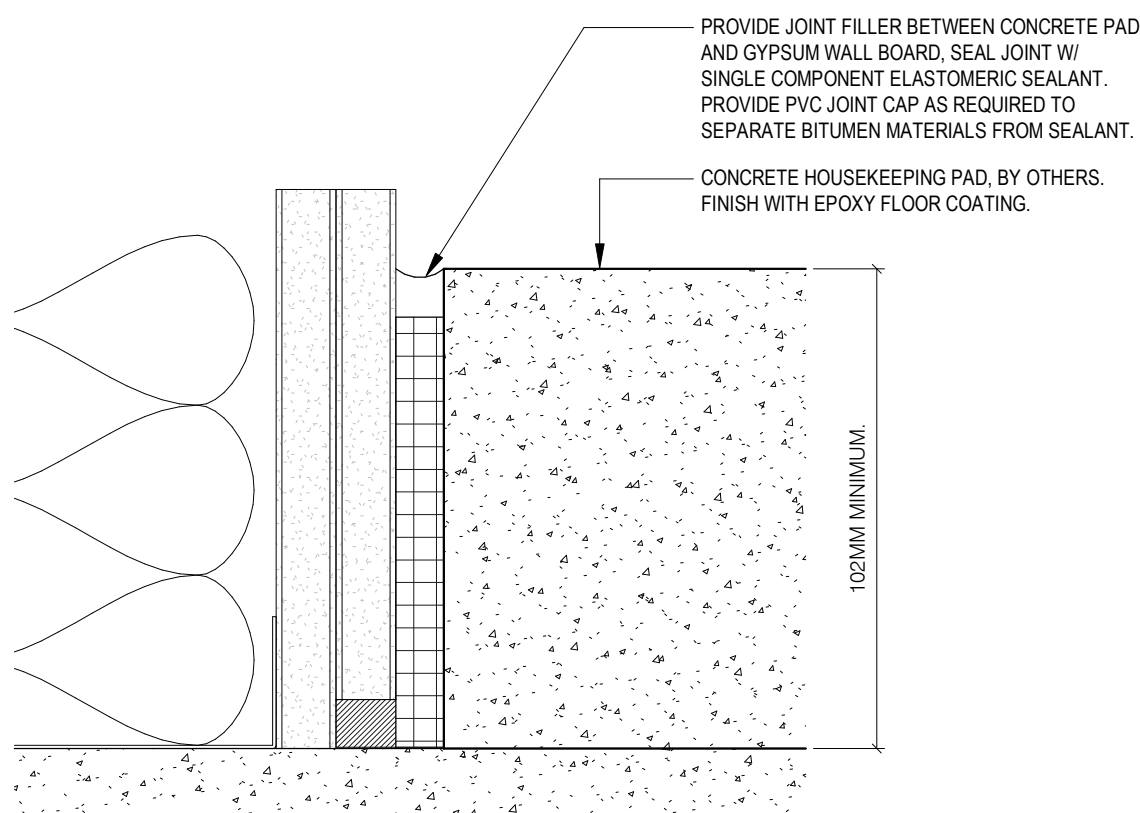
NOTES:  
1. ALL MOUNTING HEIGHTS SHOWN ARE TYPICAL. REFER TO INTERIOR ELEVATIONS WHERE APPLICABLE.  
2. PROVIDE STEEL SHEET REINFORCEMENT FOR ALL SPECIFIED ACCESSORIES/ EQUIPMENT INCLUDING THOSE SUPPLIED BY OWNER AND INSTALLED BY OWNER.  
3. ALTERNATIVE PLYWOOD SHEATHING MAY BE ACCEPTABLE, ALL COMBUSTIBLE BLOCKING WITHIN FIRE SEPARATIONS MUST BE FIRE-RETARDANT.

5 STUD FRAMING REINFORCEMENT FOR ACCESSORIES  
A401 1 : 50

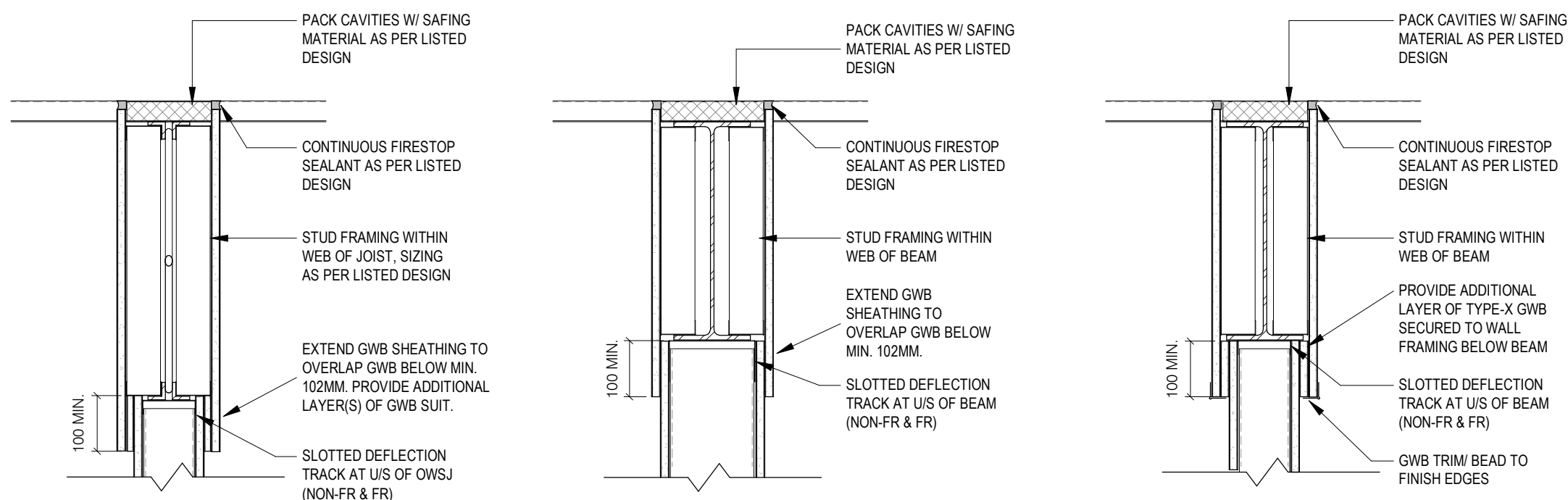


NOTE: DETAILS SHOWN ARE GENERIC AND FOR REFERENCE ONLY. CONTRACTOR TO CONSTRUCT HEAD OF WALL DETAIL IN ACCORDANCE W/ GULULC HEAD OF WALL DESIGNS.

4 TYPICAL HEAD OF WALL DETAILS @ U/S ROOF DECK  
A401 1 : 10

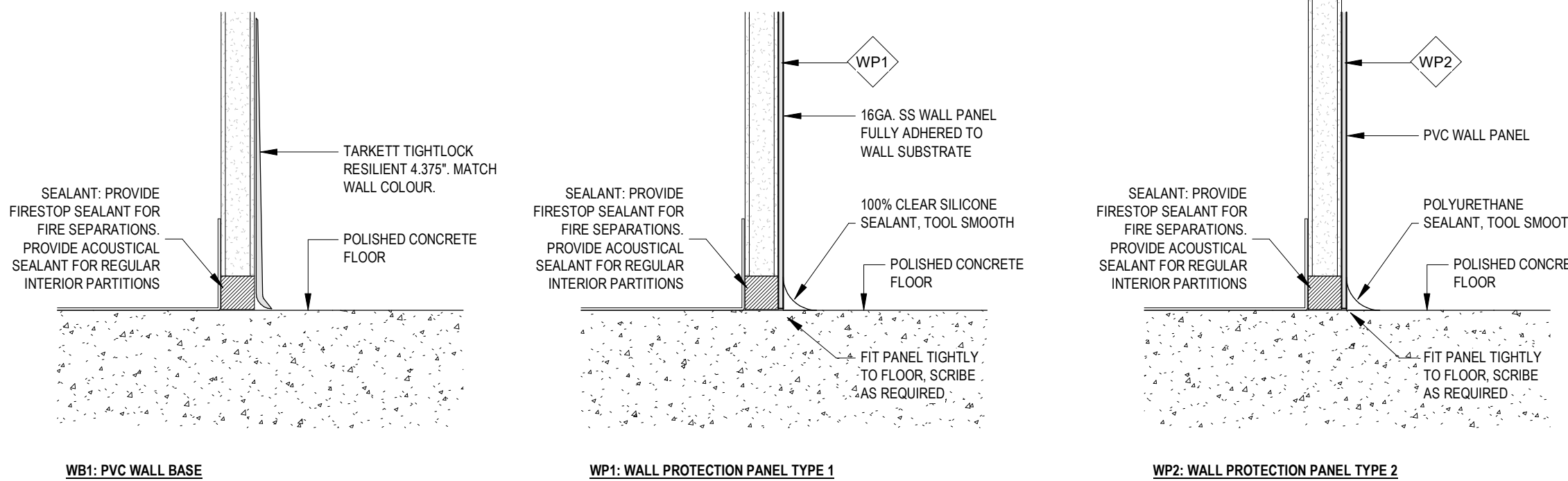


2 DETAIL - WALL AND CONCRETE PAD JOINT  
A401 1 : 2



NOTE: DETAILS SHOWN ARE GENERIC AND FOR REFERENCE ONLY. CONTRACTOR TO CONSTRUCT HEAD OF WALL DETAIL IN ACCORDANCE W/ GULULC HEAD OF WALL DESIGNS.

3 TYPICAL HEAD OF WALL DETAILS @ BEAMS & OWSJ  
A401 1 : 10



NOTE: REFER TO ROOM FINISH SCHEDULE AND ELEVATIONS FOR APPLICABLE WALL BASE/PANEL TYPES.

1 WALL BASE DETAILS  
A401 1 : 2

#### 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

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AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
BLK	BLOCK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
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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
FR	FIRE RESISTANCE RATING
FLR	FLOOR
GA	GALVE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HT	HEIGHT
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HYD	HYDRANT
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RA	ROOF ANCHOR
RD	ROOF DRAIN
RWL	RAINWATER LEADER
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SPEC	SPECIFICATION
SS	STAINLESS STEEL
U/S	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

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NO.	DATE	ISSUED

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



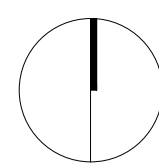
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



#### INTERIOR PARTITION DETAILS

ENTERED: L.T.

CHECKED: D.C.

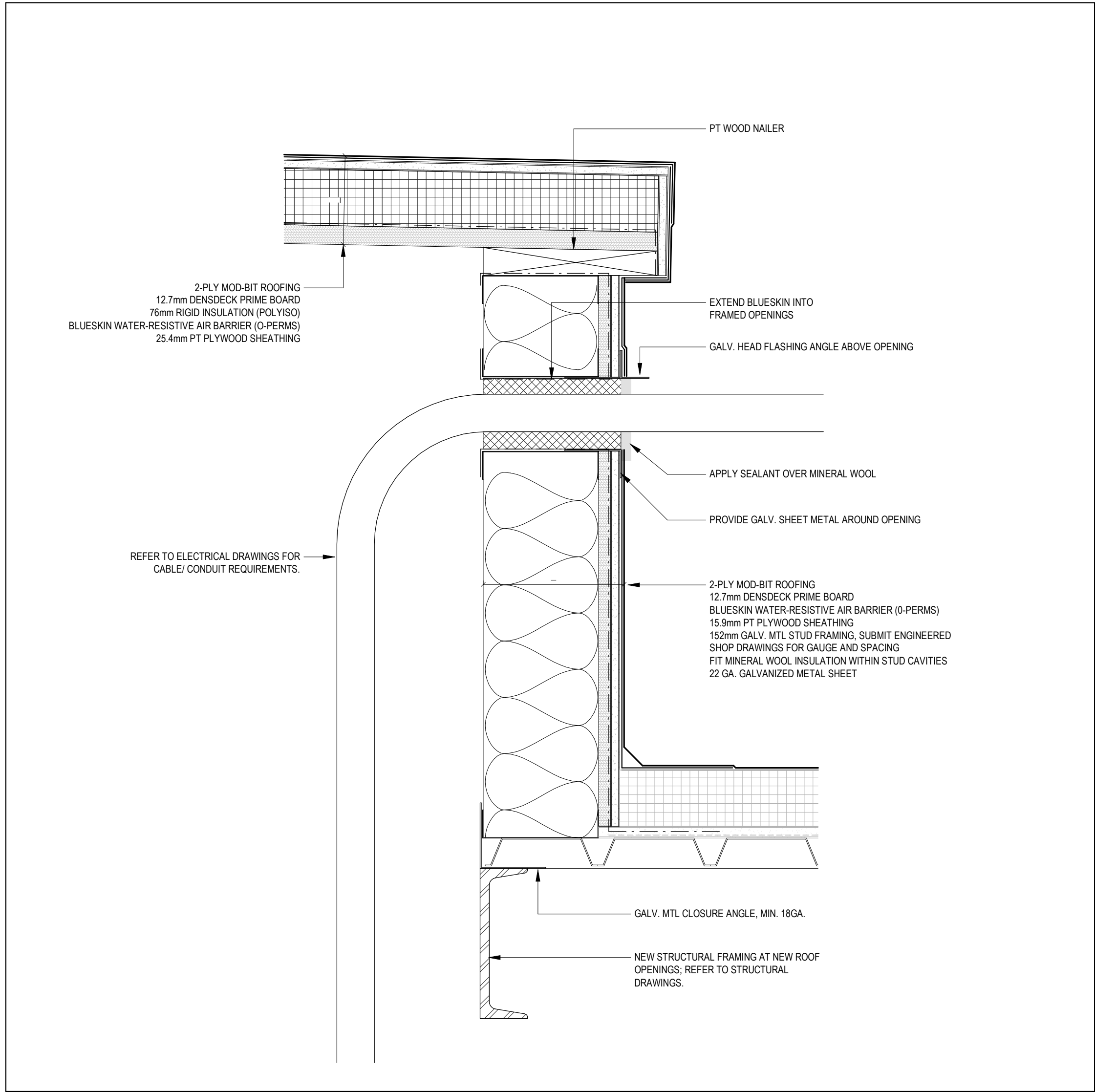
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PROJECT NO.

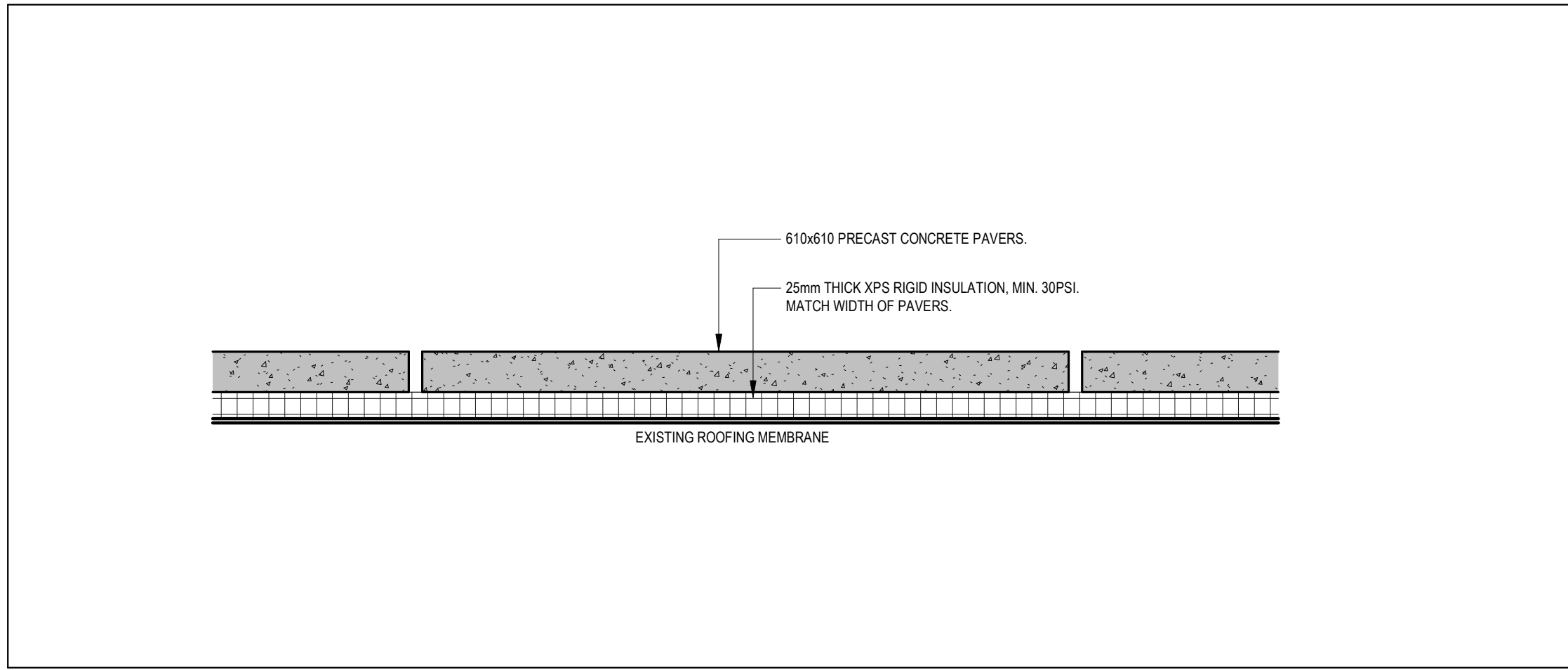
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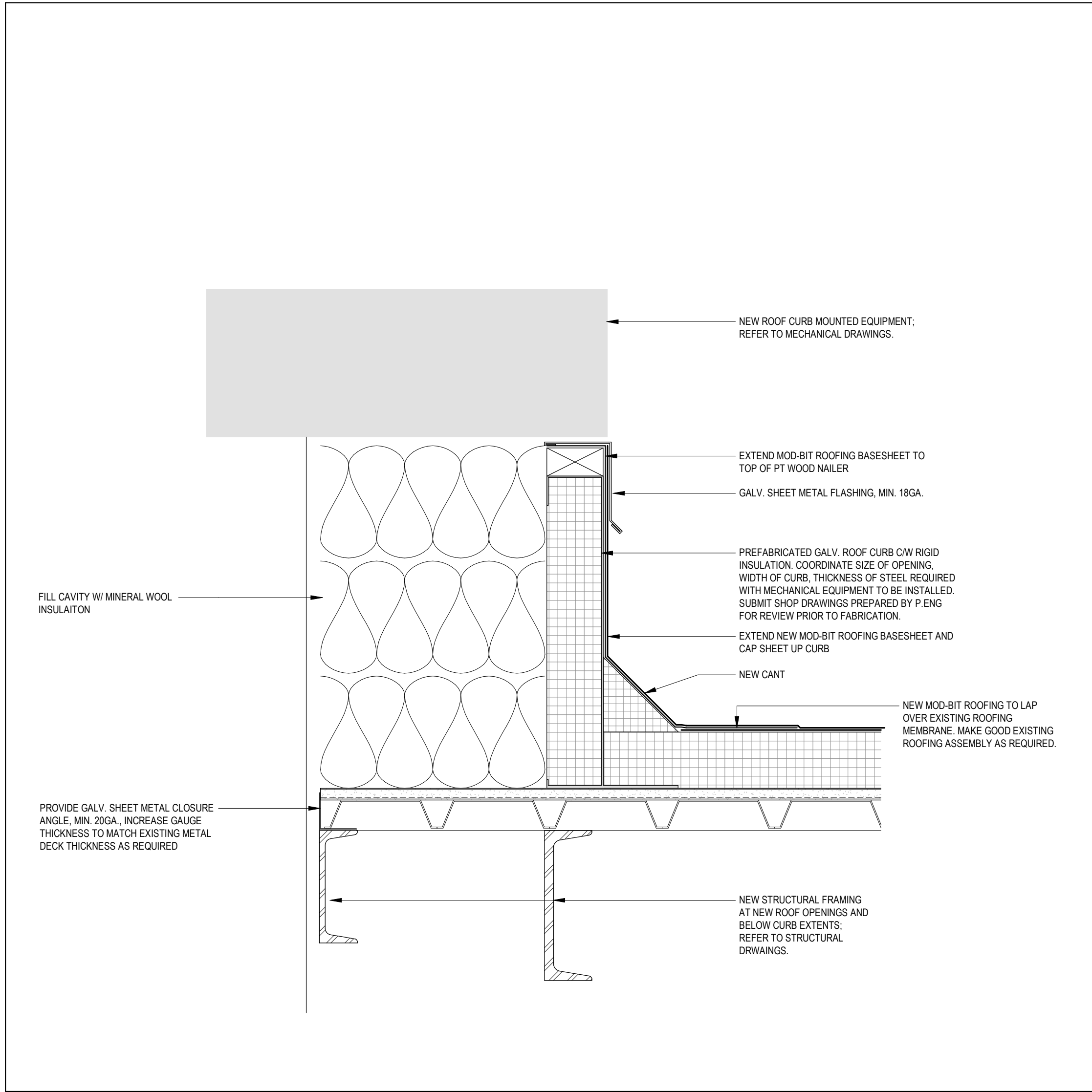
22-136



2  
A402 ROOF DETAIL - TYP. CABLE PENETRATION SECTION  
1 : 5



3  
A402 ROOF MAINTENANCE ACCESS PATH DETAIL  
1 : 5



1  
A402 ROOF DETAIL-MECHANICAL EQUIPMENT CURB  
1 : 5

#### GENERAL CONSTRUCTION NOTES:

- A. PROVIDE MECHANICAL PROTECTION TO EXISTING ROOFING, ROOF EQUIPMENT, ROOF DRAINS AS REQUIRED/ WHERE IMPACTED BY INSTALLATION OF NEW ROOF TOP EQUIPMENT.
- B. MAKE GOOD ALL ROOFING WHERE IMPACTED BY NEW WORK AT ALL AREAS OF WORK.
- C. COORDINATE W/ OWNERS TEMPORARY WORKS, WORK HOURS, HOARDING REQUIREMENTS AND PROPERTY WORK STANDARDS.
- D. REFER TO STRUCTURAL DRAWINGS FOR FRAMING REQUIREMENTS AROUND NEW ROOF PENETRATIONS AND OPENINGS FOR NEW ROOF EQUIPMENT.
- E. ALL MECHANICAL AND ELECTRICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. REFER TO APPLICABLE MECHANICAL & ELECTRICAL DRAWINGS FOR DETAIL REQUIREMENTS.
- F. INFILL AND ENCLOSE ALL EXISTING UNUSED ROOF OPENINGS WITH NEW ROOF CONSTRUCTION TO MATCH EXISTING ROOF ASSEMBLY.
- G. REFER TO DETAILS FOR TYPICAL ROOF CURB CONDITIONS AND REQUIREMENTS. CONTRACTOR TO ADJUST CONSTRUCTION OF ROOF CURB AS NECESSARY TO SUIT SITE CONDITION, EXISTING CONSTRUCTION ASSEMBLY, MECHANICAL EQUIPMENT MOUNTING REQUIREMENTS.

#### ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
BLK	BLOCK
CB	CATCH BASIN
CFS	COLD FORMED STEEL
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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



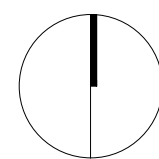
STRUCTURAL ENGINEERING:



## HWP WAREHOUSE UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



### ROOF DETAILS

ENTERED: L.T.

CHECKED: D.C.

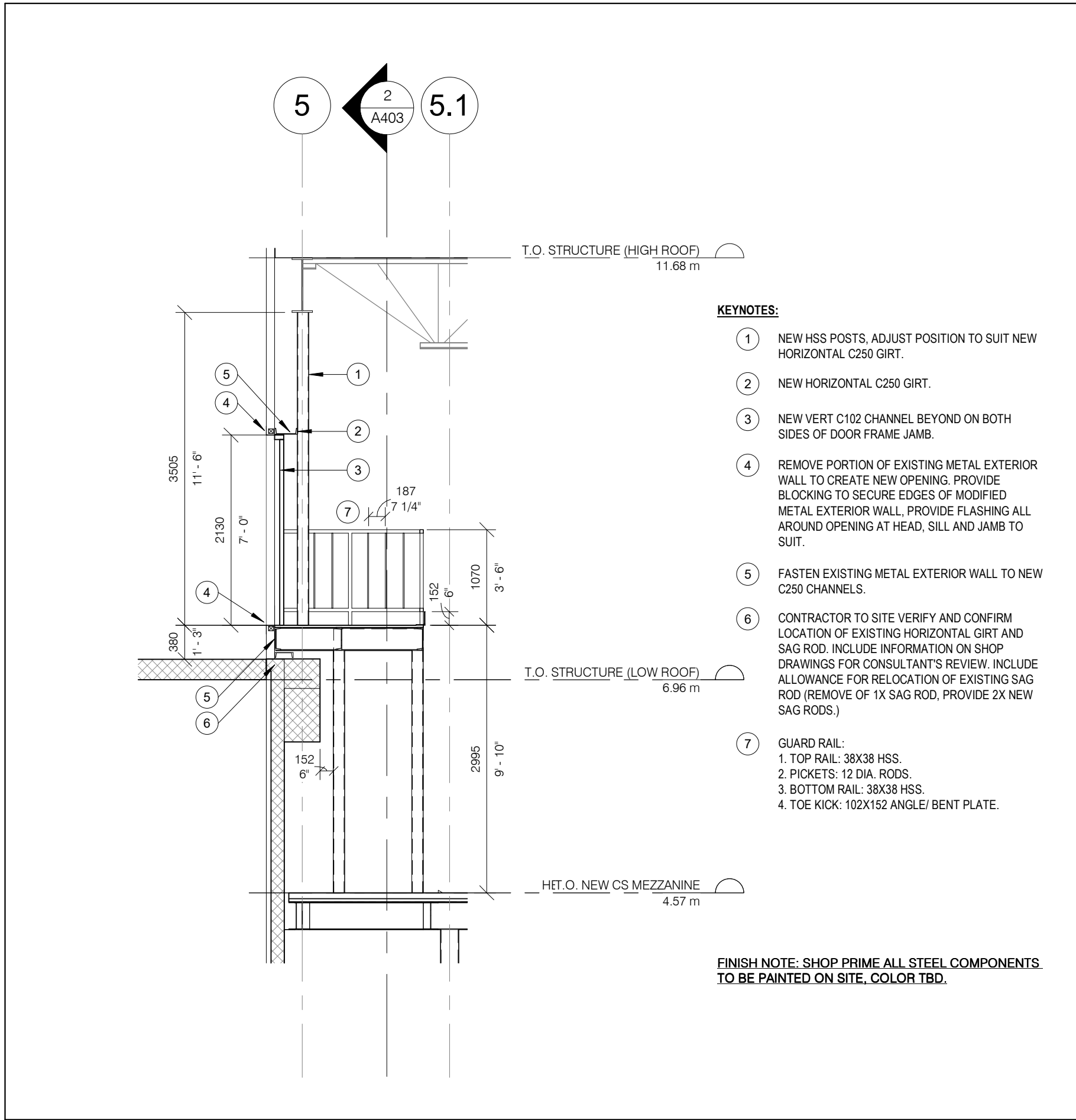
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PROJECT NO.

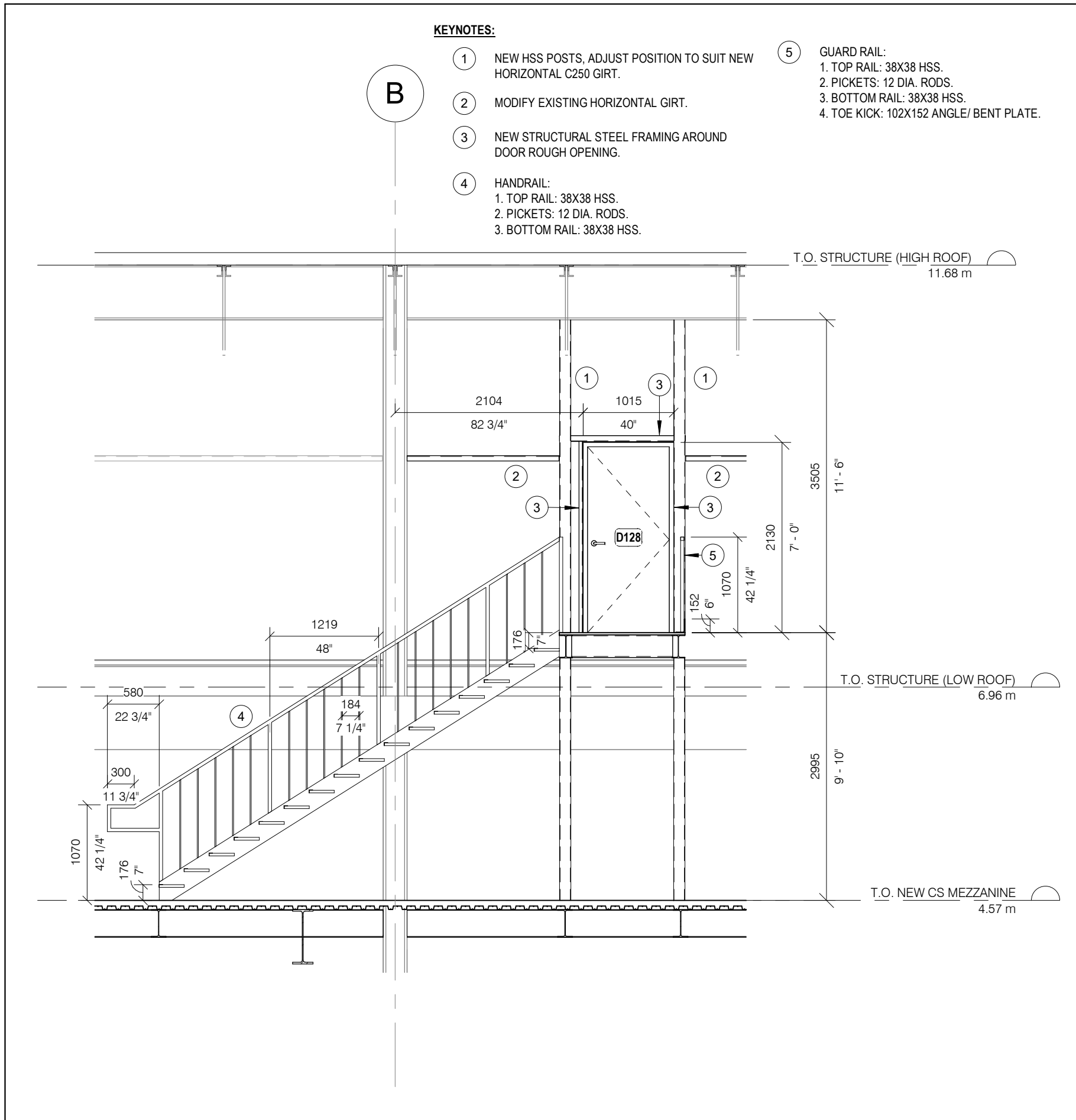
DRAWING NO.

**A402**

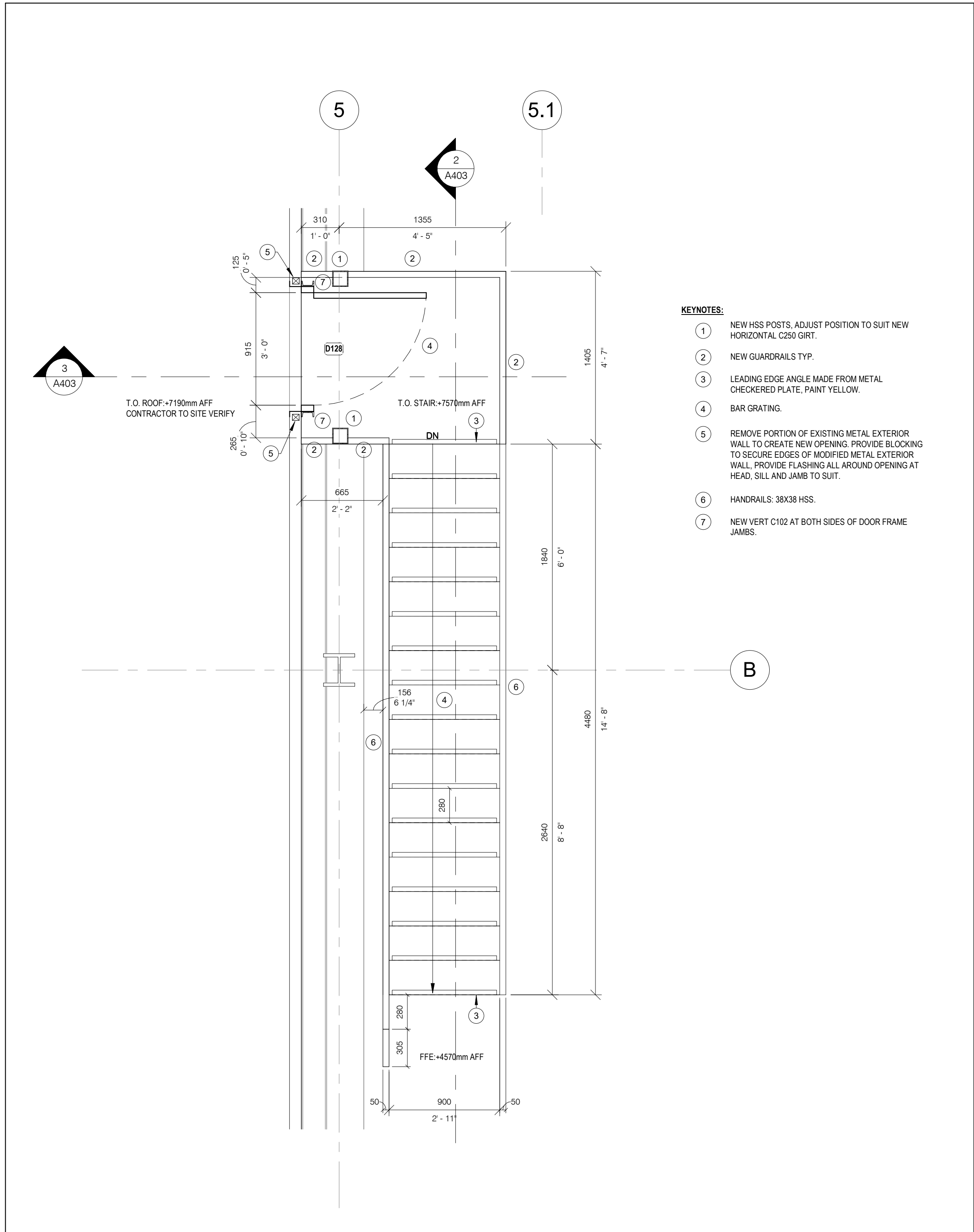




3 ROOF ACCESS STAIR T.O. LANDING SECTION  
1 : 50



2 ROOF ACCESS STAIR SECTION  
1 : 50



1 CS-FMO ROOF ACCESS STAIR PLAN  
1 : 25

**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
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
FRR	FIRE RESISTANCE RATING
FLR	FLOOR
GA	GUAGE
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

1	2024/10/02	ISSUED FOR TENDER
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REVISIONS		

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS WITH SITE CONDITIONS, PRIOR TO THE WORK AND NOTIFY THE ARCHITECT OF DIFFERENCES. AWAIT CLARIFICATION BEFORE CONTINUING.

DO NOT SCALE DRAWINGS.

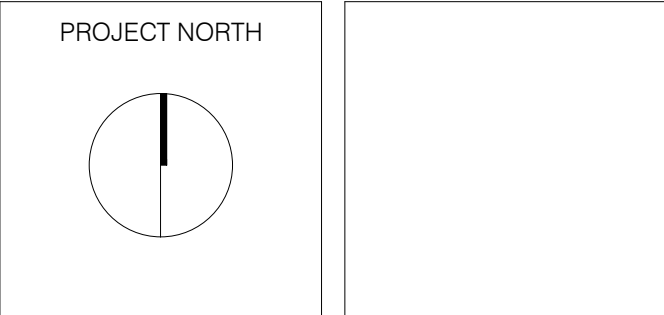
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**HWP WAREHOUSE  
UPGRADE**

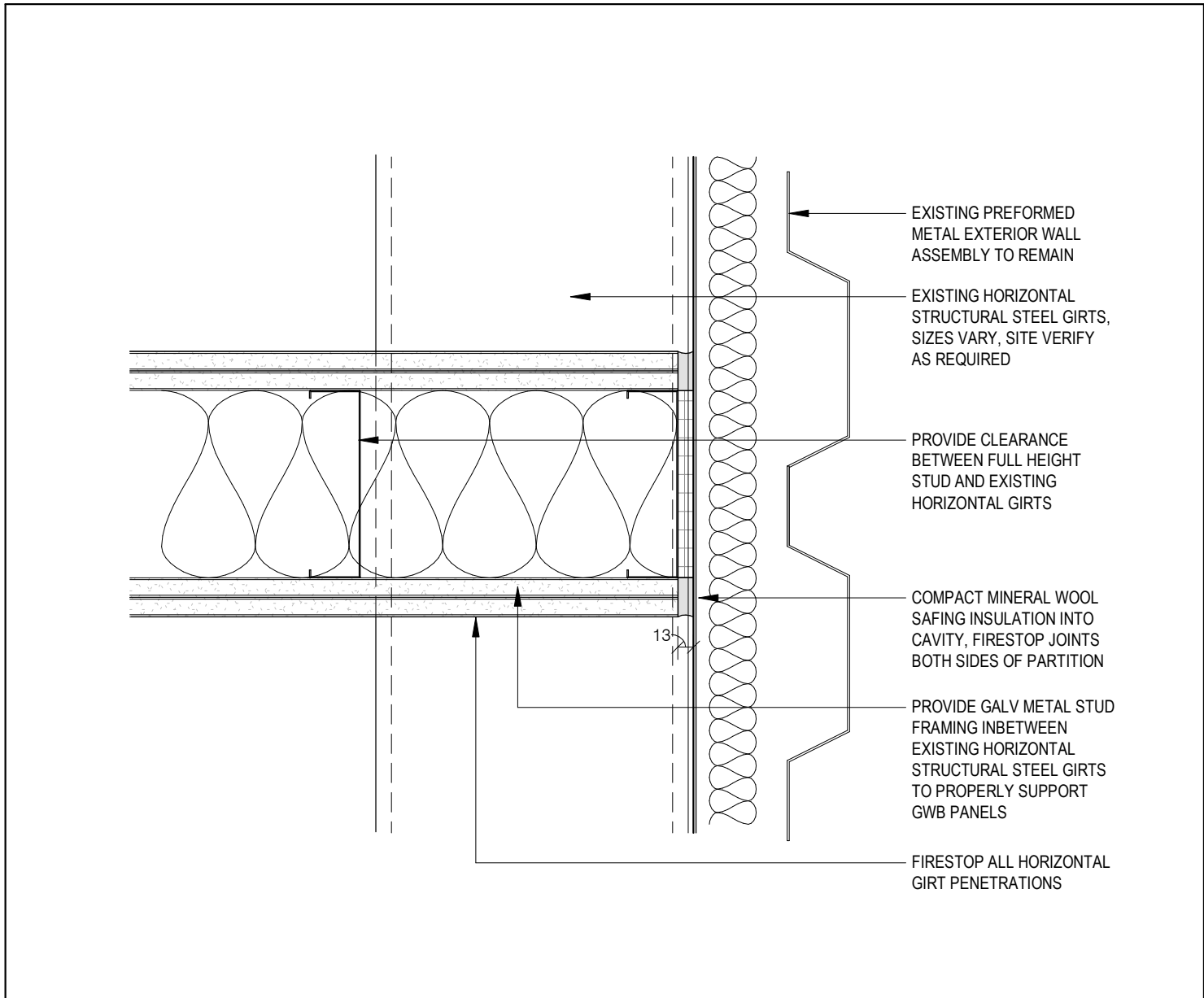
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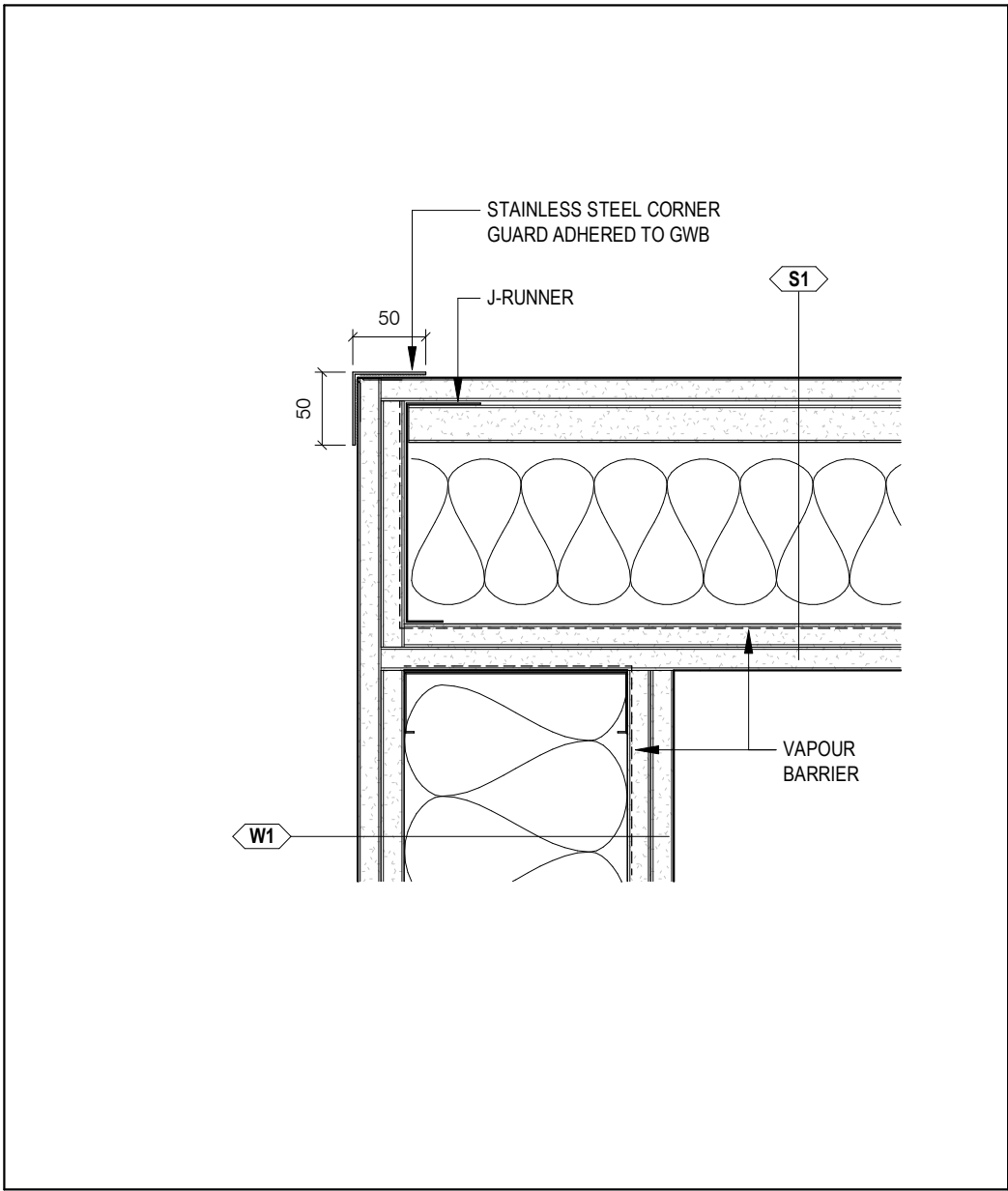
ROOF ACCESS STAIR DETAILS

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CHECKED: D.C.	
DATE: SEP.2024	
PROJECT NO.	
22-136	

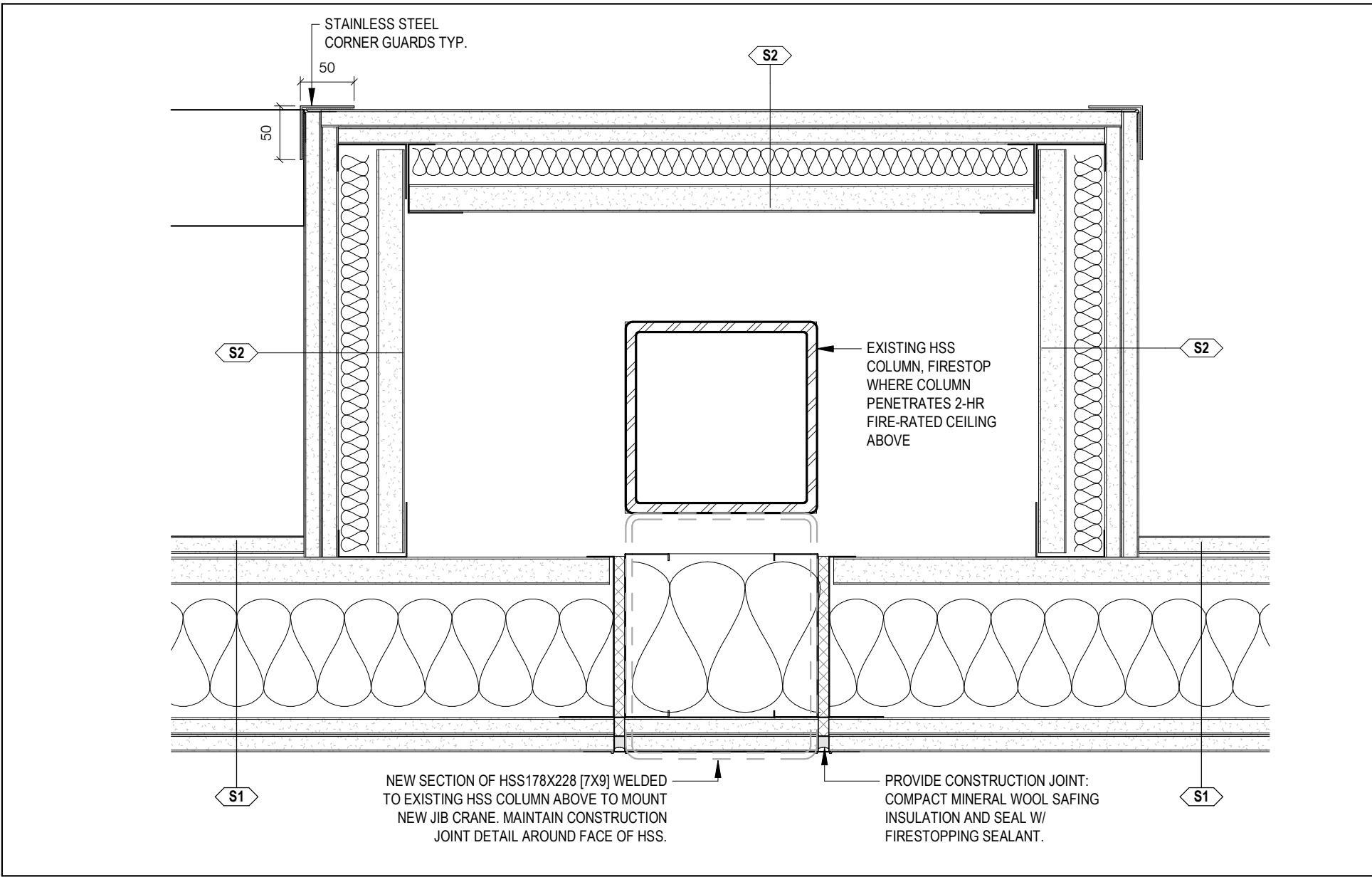




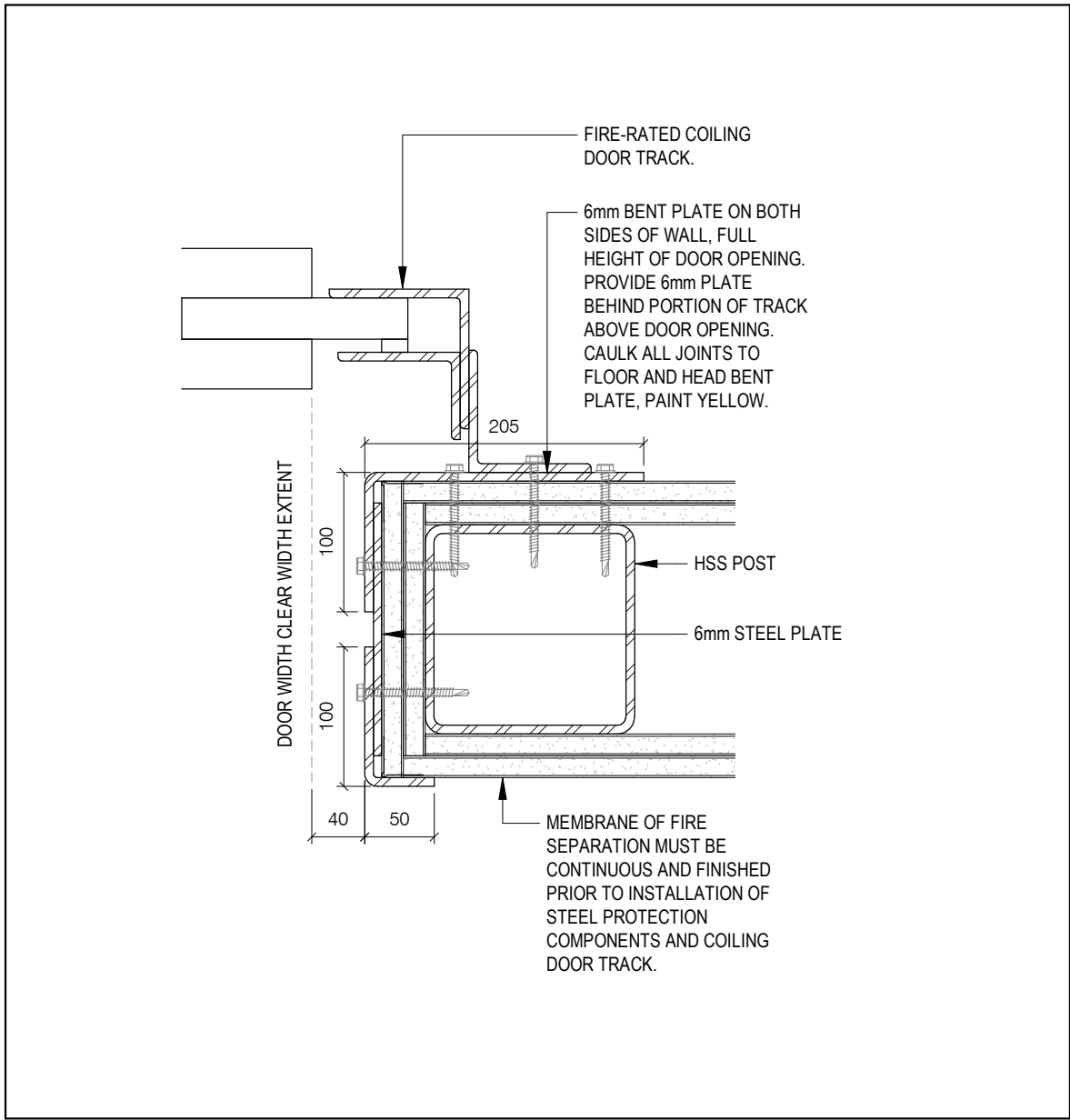
8 INTERIOR PARTITION INSECTING EXTERIOR WALL DETAIL  
A411 1 : 5



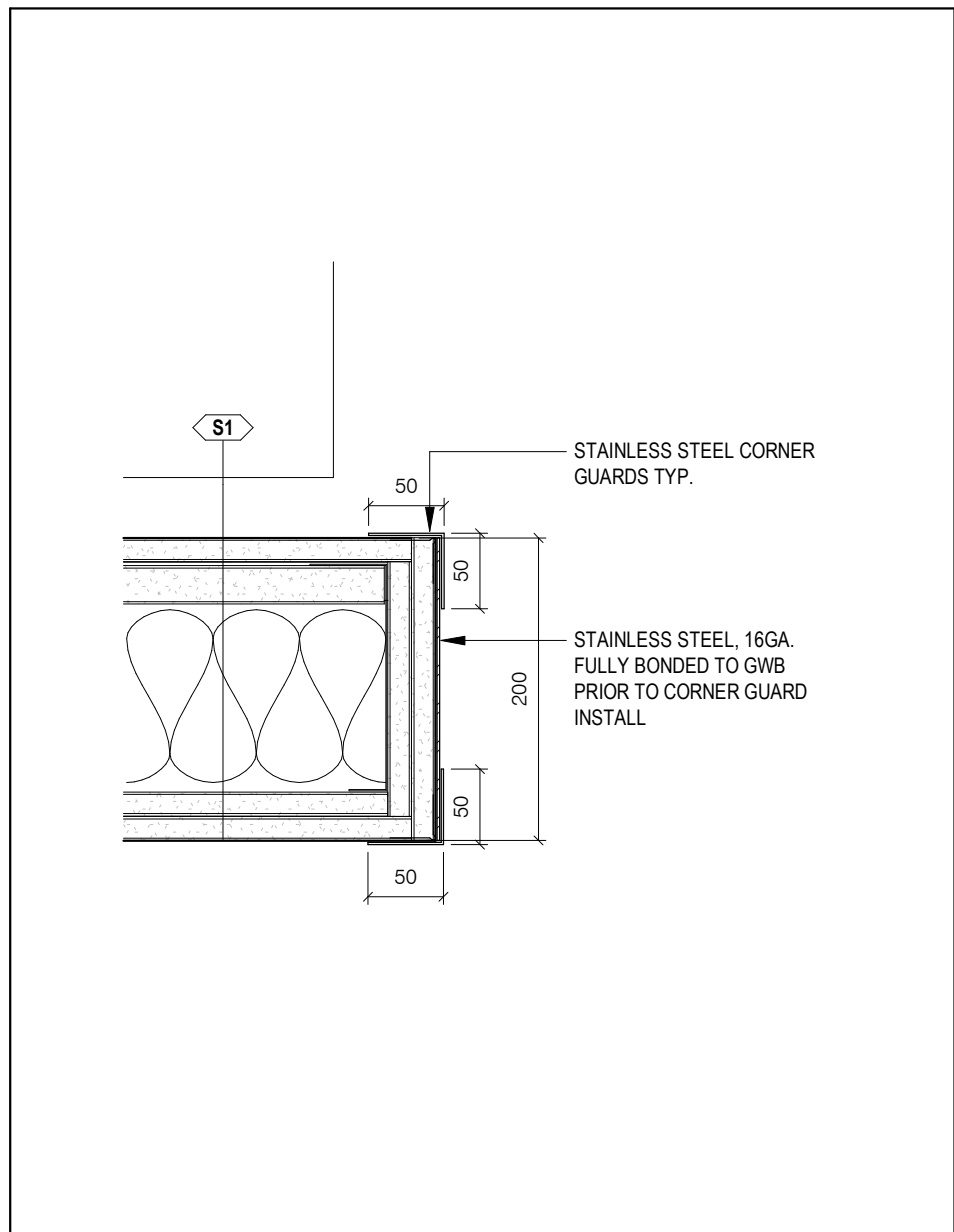
7 PW-CMS INSTRUMENTATION NW CORNER DETAIL  
A411 1 : 5



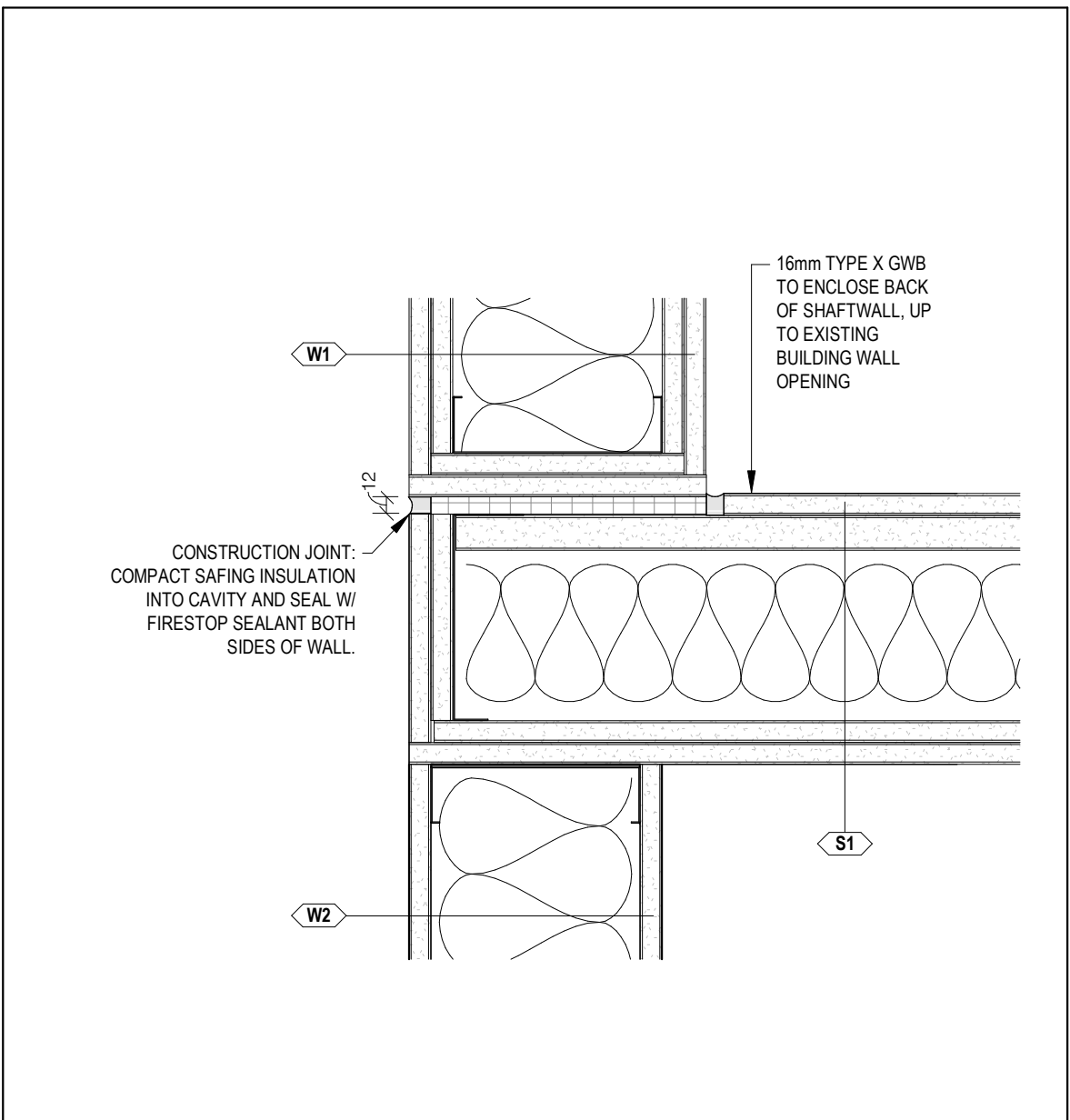
6 PW-CMS INSTRUMENTATION HSS COLUMN DETAIL  
A411 1 : 5



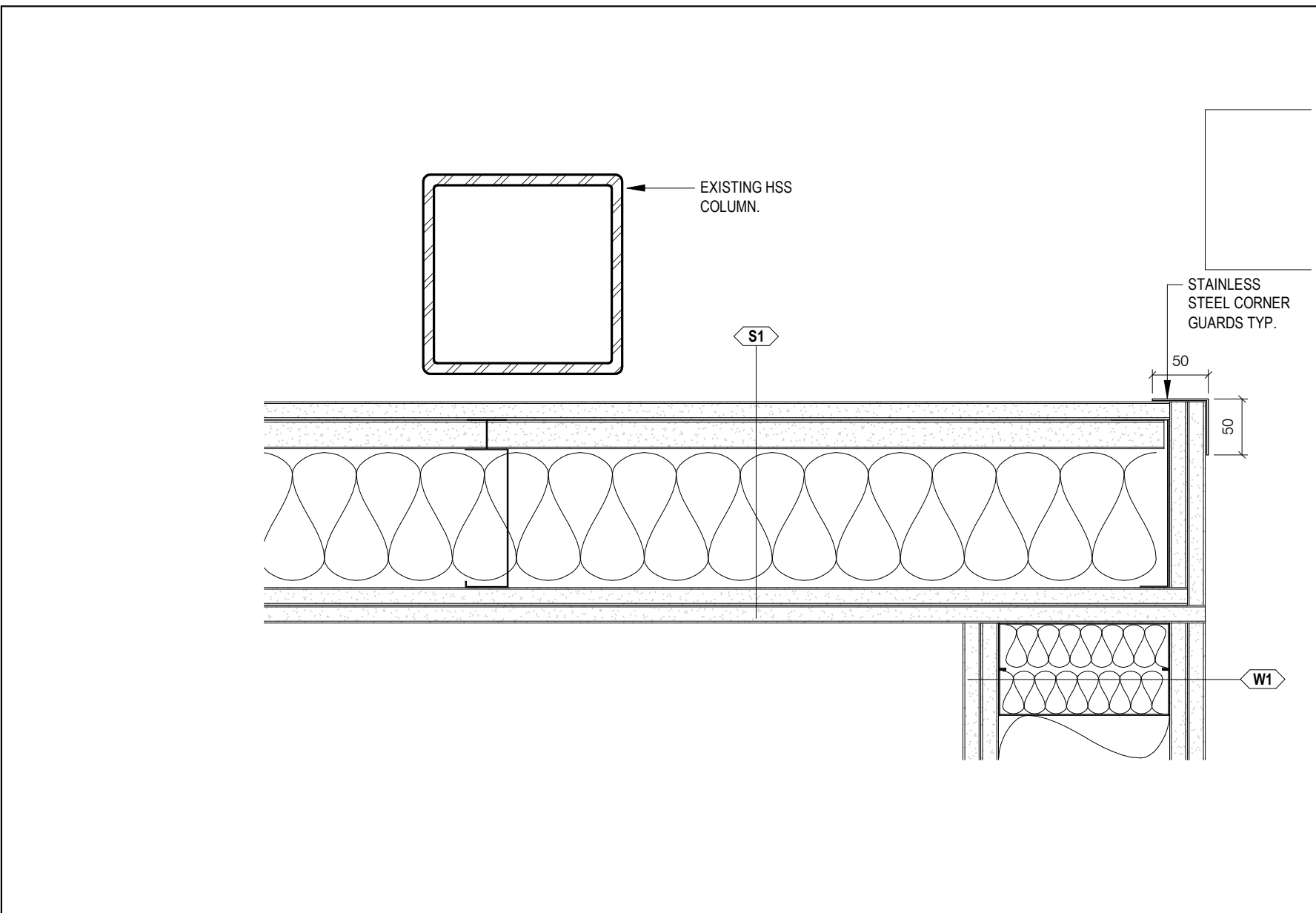
5 COILING DOOR TYP JAMB DETAIL  
A411 1 : 5



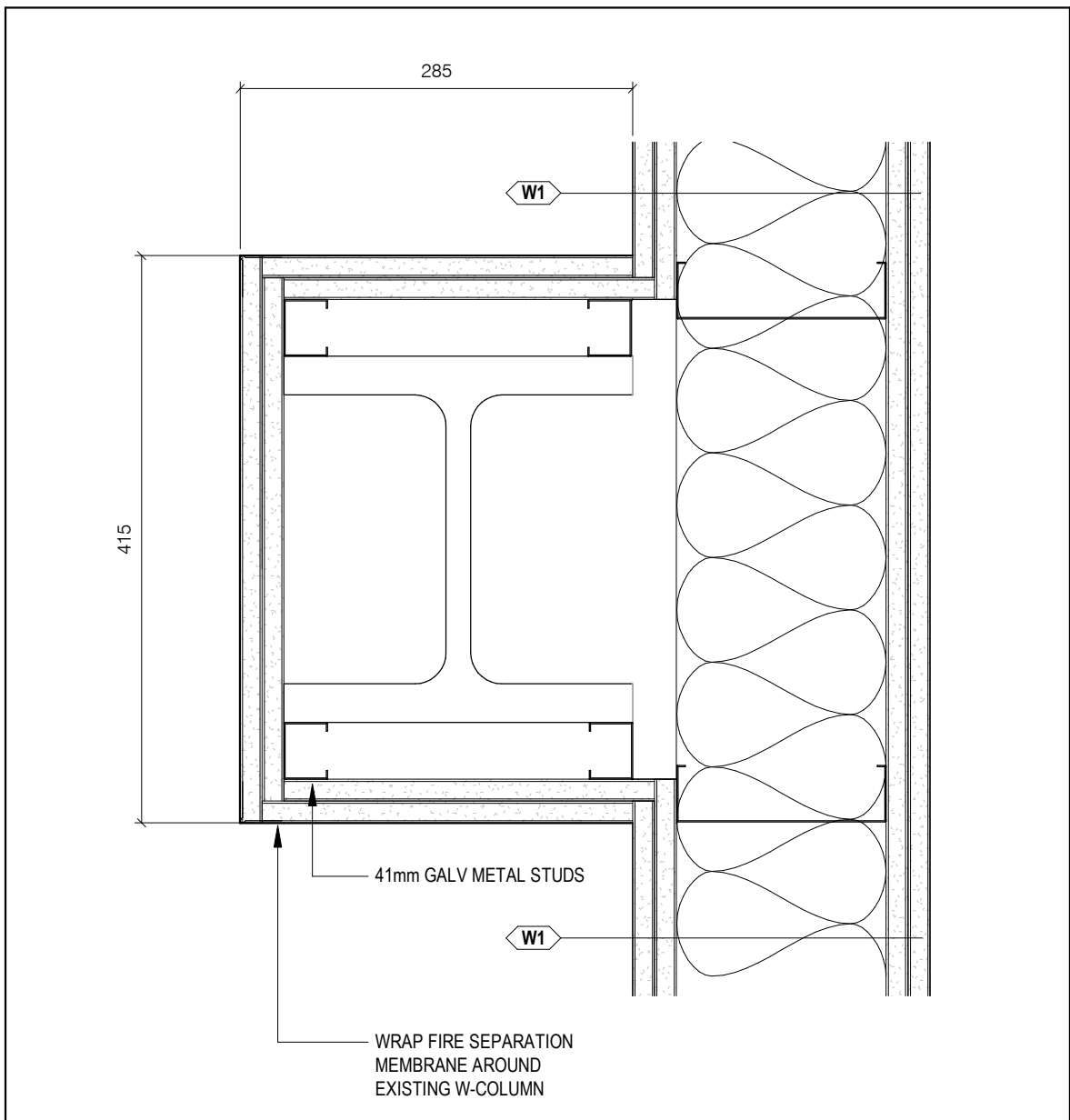
4 PW-CMS GRID N1 WALL END CAP DETAIL  
A411 1 : 5



3 PW-CMS STAGING/ WORKSHOP TRANSITION DETAIL  
A411 1 : 5



2 PW-CMS SERVICE ROOM GRID N1/7Y DETAIL  
A411 1 : 5



1 PW-CMS STAGING W-COLUMN FURRING DETAIL  
A411 1 : 5

GENERAL CONSTRUCTION NOTES:

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- F. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND INCLUDE RELEVANT INFORMATION ON SHOP DRAWINGS.

ABBREVIATIONS

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EQ	EQUAL
EX	EXISTING
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FD	FLOOR DRAIN
FIN	FINISH
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GALV	GALVANIZED
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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
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SPEC	SPECIFICATION
SS	STAINLESS STEEL
U/S	UNDERSIDE
W/	WITH
W/C	WATER CLOSET

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CLIENT:



ARCHITECT:

**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:



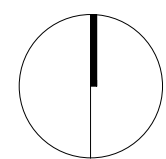
STRUCTURAL ENGINEERING:



HWP WAREHOUSE  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PW-CMS DETAILS

ENTERED: L.T.

CHECKED: D.C.

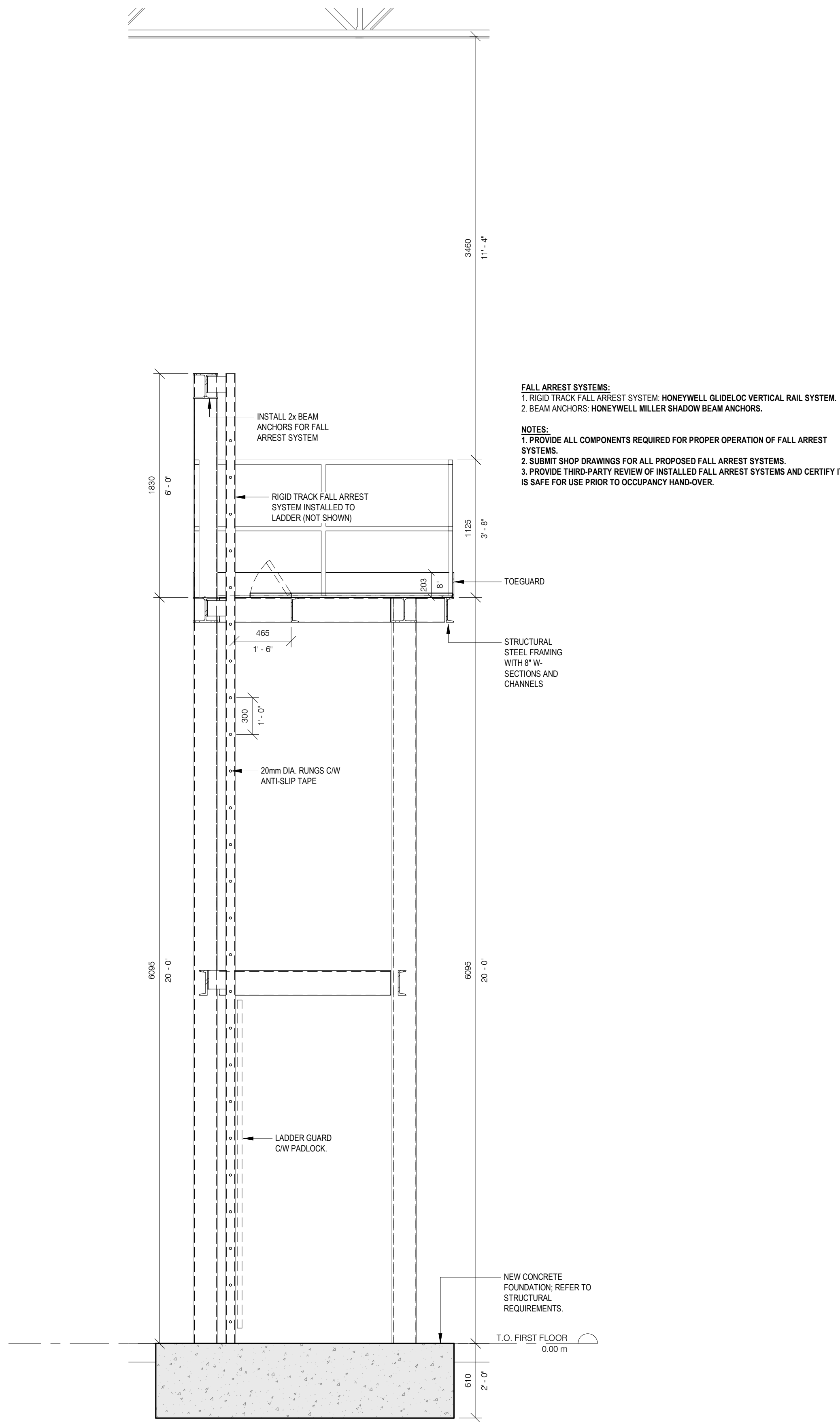
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PROJECT NO.

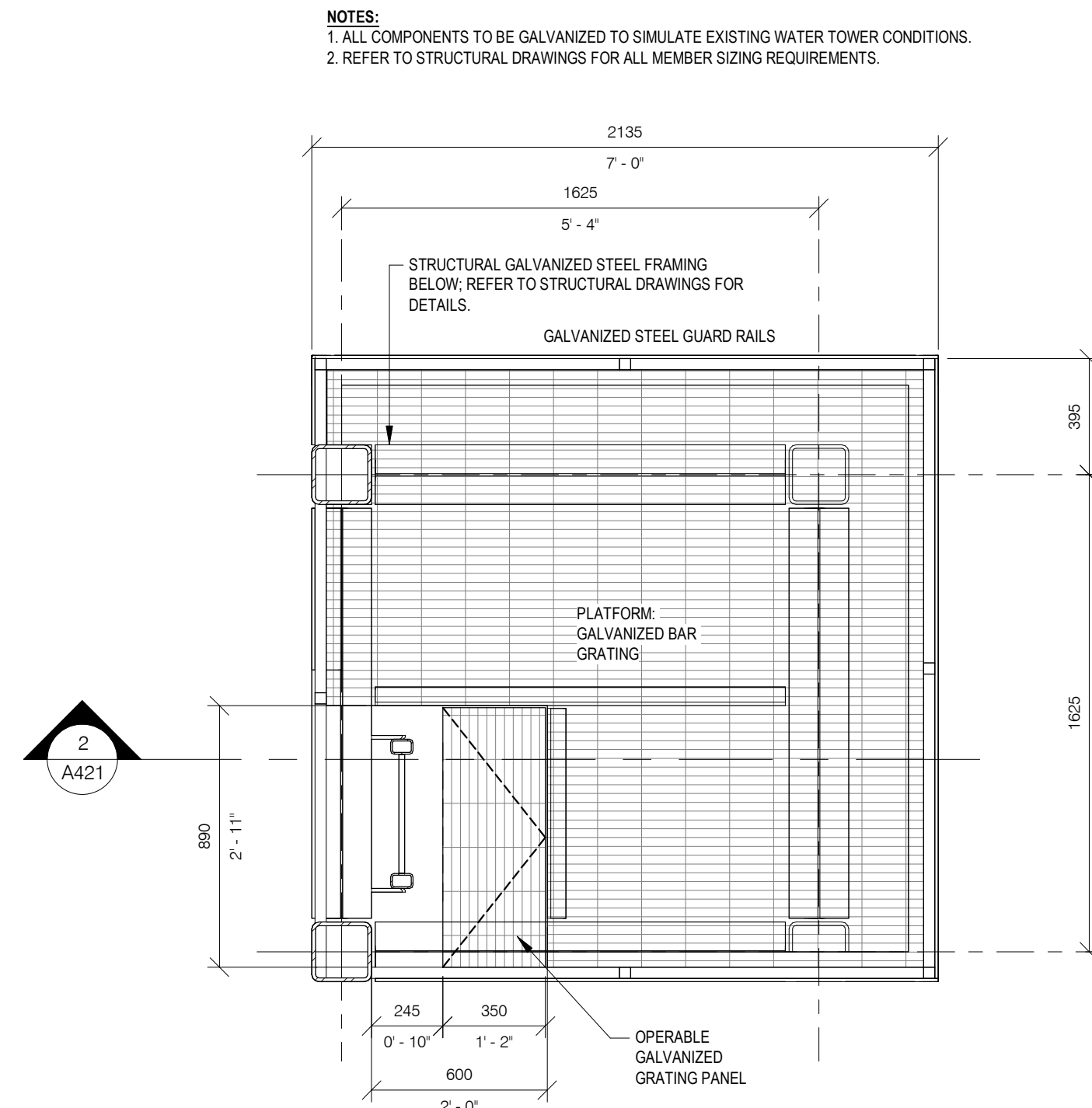
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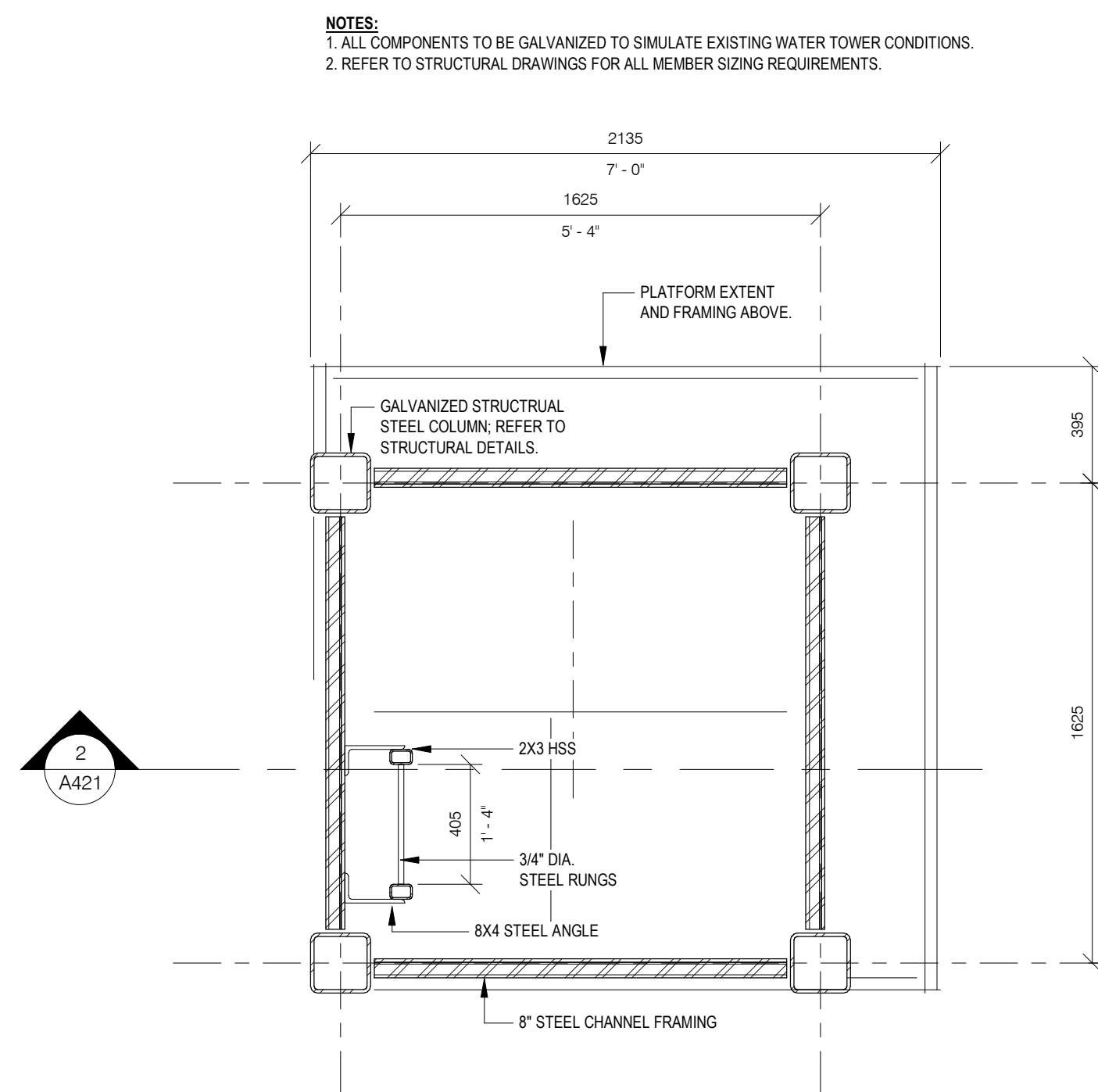




2 PW TRAINING TOWER SECTION  
A421 1 : 25



3 PW TRAINING TOWER PLAN @ 6.1M AFF  
A421 1 : 20



1 PW TRAINING TOWER PLAN @ 3M AFF  
A421 1 : 20

**NOTE TO BIDDERS:**  
PLEASE REFER TO RFT DOCUMENTS AND PRICE THIS WORK AS PROVISIONAL ITEM.

**GENERAL CONSTRUCTION NOTES:**

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FD	FLOOR DRAIN
FIN	FINISH
FRR	FIRE RESISTANCE RATING
FLR	FLOOR
GA	Gauge
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U/S	UNDERSIDE
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CLIENT:  
**York Region**

ARCHITECT:  
**CARTER AI**  
DAVID CARTER ARCHITECTS INC.

MECHANICAL & ELECTRICAL ENGINEERING:  
**QUASAR**  
CONSULTING GROUP

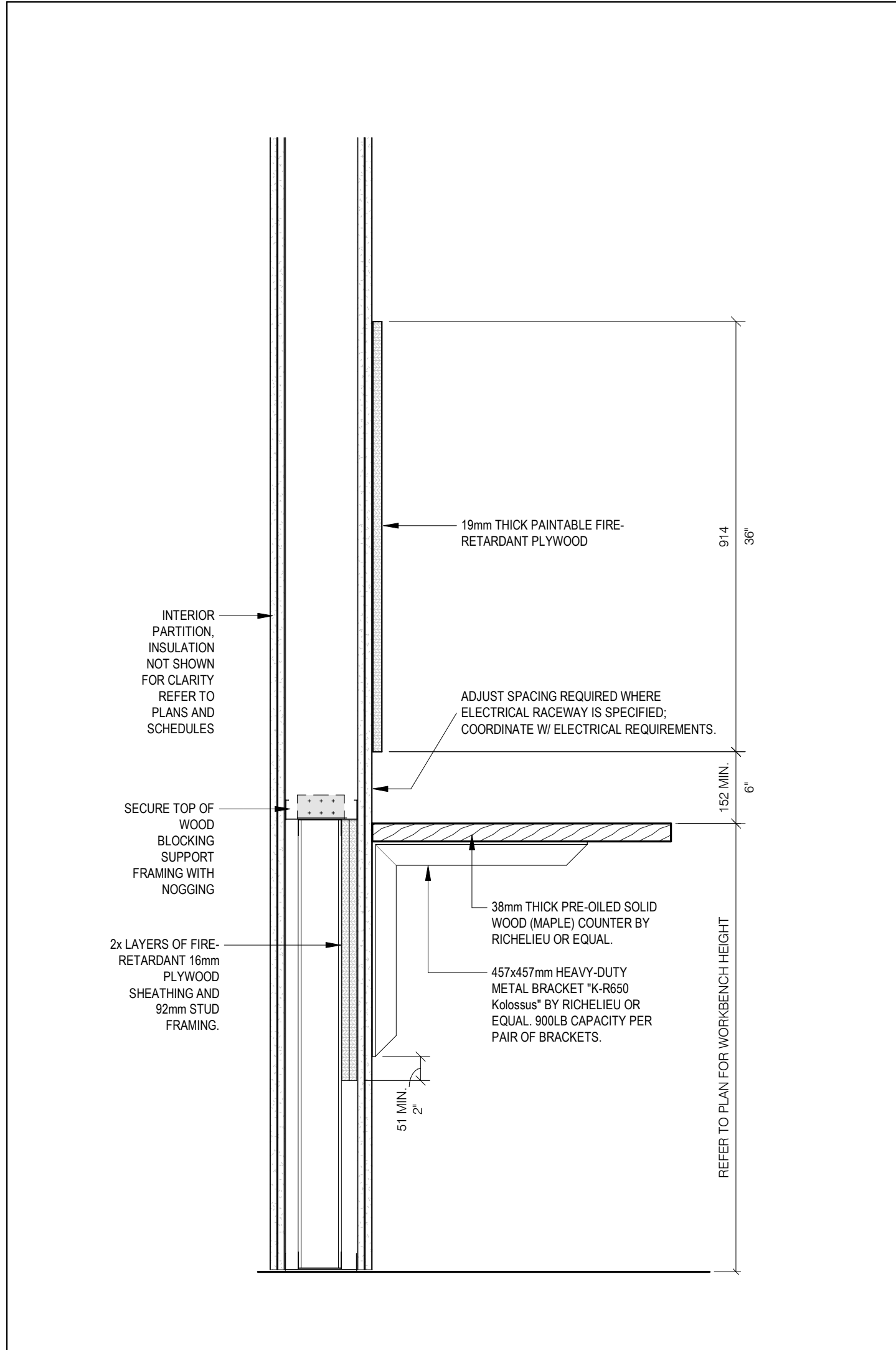
STRUCTURAL ENGINEERING:  
**HONEYCOMB**

**HWP WAREHOUSE**  
UPGRADE  
145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

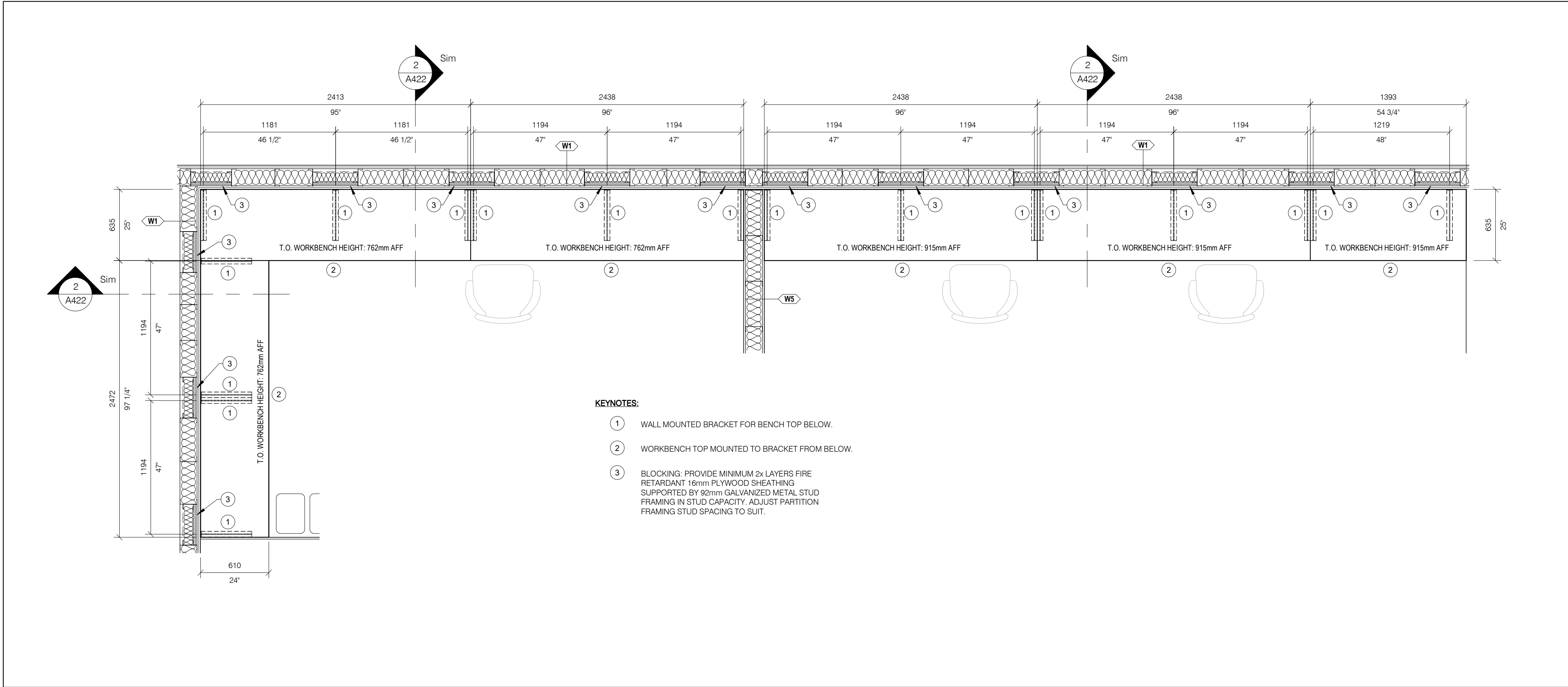
PROJECT NORTH

PW TRAINING TOWER DETAILS

ENTERED: L.T.	DRAWING NO.
CHECKED: D.C.	A421
DATE: SEP.2024	
PROJECT NO.	
22-136	



2 PW-SCADA TYP WORKBENCH SECTION DETAIL  
A422 1 : 10



- KEYNOTES:
- 1 WALL MOUNTED BRACKET FOR BENCH TOP BELOW.
  - 2 WORKBENCH TOP MOUNTED TO BRACKET FROM BELOW.
  - 3 BLOCKING: PROVIDE MINIMUM 2x LAYERS FIRE RETARDANT 16mm PLYWOOD SHEATHING SUPPORTED BY 92mm GALVANIZED METAL STUD FRAMING IN STUD CAPACITY. ADJUST PARTITION FRAMING STUD SPACING TO SUIT.

1 PW-SCADA PROPOSED WORKBENCH DETAIL PLAN  
A422 1 : 25

1	2024/10/02	ISSUED FOR TENDER
NO.	DATE	ISSUED
REVISIONS		

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MECHANICAL & ELECTRICAL ENGINEERING:



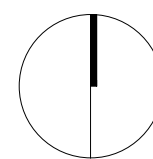
STRUCTURAL ENGINEERING:



**HWP WAREHOUSE**  
UPGRADE

145 Harry Walker Parkway  
Newmarket, ON L3Y 7B3

PROJECT NORTH



PW-SCADA DETAILS

ENTERED: L.T.

CHECKED: D.C.

DATE: SEP 2024

PROJECT NO.

DRAWING NO.

A422

22-136



1. DRAWINGS ARE NOT TO BE SCALED, CONTRACTOR WILL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS REQUIRED TO PERFORM THE WORK AND WILL REPORT ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO THE STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
2. THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY NOTED FOR SUCH PURPOSE.
3. WHERE DOCUMENTS ARE REFERENCED IN THE GENERAL AND DESIGN NOTES, THEY SHALL BE THE LATEST EDITIONS OR REVISION, UNLESS NOTED OTHERWISE.
4. READ STRUCTURAL DOCUMENTS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND OTHER CONTRACT DOCUMENTS.
5. BEFORE PROCEEDING WITH THE WORK, CHECK ALL DIMENSIONS SHOWN ON THE STRUCTURAL DOCUMENTS WITH SITE CONDITIONS AND THOSE SHOWN ON ARCHITECTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS AND REPORT DISCREPANCIES TO THE CONSULTANT.
6. PROVIDE LABOUR, MATERIALS, PLANT AND EQUIPMENT TO COMPLETE ALL STRUCTURAL WORK INDICATED ON THE CONTRACT DOCUMENTS.
7. CARRY OUT CONSTRUCTION OPERATIONS, INCLUDING THE INSTALLATION OF TEMPORARY GUYING AND SHORING REQUIRED, ENSURING THAT THE EXISTING STRUCTURE OR MEMBERS ALREADY ERRECTED ARE NOT LOADED IN EXCESS OF THEIR SAFE LOAD CAPACITY.

**B. REFERENCE STANDARDS/CODES AND ACTS**

1. CONFORM WITH THE ONTARIO REGULATION 350/12, AND ANY APPLICABLE ACTS OF ANY AUTHORITY HAVING JURISDICTION, AND THE FOLLOWING:
- 1.1. CAN/CSA A23.1

1.2. CAN/CSA A23.2

1.3. CAN/CSA A23.3

1.4. C888.12M

1.5. C888.12M

1.6. CAN/CSA S16

1.7. RSIC 1996

CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.

METHODS OF TEST FOR CONCRETE.

DESIGN OF CONCRETE STRUCTURES.

STEEL ROOF DECK.

COMPOSITE STEEL DECK.

LIMIT STATES DESIGN OF STEEL STRUCTURES.

REINFORCING STEEL INSTITUTE OF CANADA (RSIC), MANUAL OF STANDARD PRACTICE.

COLD FORMED STEEL STRUCTURAL MEMBERS.

STRUCTURAL QUALITY STEEL.
2. ALL STANDARDS AND PUBLICATIONS REFERENCED BY THE STANDARDS NOTED ABOVE ARE TO APPLY.
3. WHERE THERE ARE DIFFERENCES BETWEEN THE DOCUMENTS AND THE STANDARDS, CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN.
- C. QUALIFICATIONS**
1. ANY ORGANIZATION UNDERTAKING TO WELD UNDER THIS CONTRACT SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF DIVISION 1 OR DIVISION 2.1 OF W47.1.
- D. SUBMITTALS**
1. SHOP DRAWINGS

1.1.1. SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL TEMPORARY AND PERMANENT STRUCTURAL INCLUDING, BUT NOT LIMITED TO: CONCRETE FORMWORK; REINFORCING STEEL; STRUCTURAL STEEL INCLUDING STEEL DECK, AND LIGHTWEIGHT STEEL.

1.2. THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN 1:50 (1/4" = 10").

1.3. THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.

1.4. EACH DRAWING SUBMITTED FOR CONCRETE FORMWORK; STRUCTURAL STEEL INCLUDING JOISTS, STEEL DECK, SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

1.5. CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

2. CALCULATIONS

2.1. SUBMIT CALCULATIONS, BEARING THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR STRUCTURAL WORK, IF REQUESTED BY THE CONSULTANT.

3. MILL TEST REPORTS

3.1. MAKE AVAILABLE TO THE CONSULTANT COPIES OF ALL MILL TEST REPORTS COVERING CHEMICAL AND PHYSICAL PROPERTIES OF MATERIALS USED.

4. CONCRETE MIX DESIGNS

4.1. SUBMIT ALL CONCRETE MIX DESIGNS FOR REVIEW.

4.2. DESCRIBE IN DETAIL ON THE MIX DESIGN SUMMARY THE LOCATION(S) WHERE EACH MIX IS TO BE PLACED IN THE STRUCTURE.

5. AS-BUILT DRAWINGS

5.1. MARK ON A COMPLETE SET OF REPRODUCIBLE AS-BUILT DRAWINGS ANY CHANGES, ADDITIONS, OR DELETIONS THAT OCCUR DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S WORK, CHANGE OF ORDERS OR FOR ANY OTHER REASON.
- E. MATERIALS**
1. PROVIDE ONLY NEW STRUCTURAL MATERIALS IN ACCORDANCE WITH THE REFERENCE STANDARDS AND THE FOLLOWING, UNLESS OTHERWISE NOTED.

1.1. CONCRETE: CONFORM TO THE REQUIREMENTS OF CSA-A23.1 AND THE FOLLOWING:

1.1.1. EXPOSED TO FREEZE-THAW & CHLORIDES [EXPOSURE CLASS C-1]: FC = 35MPA.

1.1.2. EXPOSED TO FREEZE-THAW [EXPOSURE CLASS F-1]: FC = 30MPA.

1.1.3. NOT EXPOSED: FC = 25MPA.

1.2. REINFORCEMENT: CONFORM TO CSA G30 SERIES, FY = 400 MPA FOR ALL REINFORCEMENT EXCEPT THAT FY = 386 MPA FOR WELDED WIRE FABRIC. [PROVIDE WELDED WIRE FABRIC IN FLAT SHEETS ONLY]. ALL REINFORCEMENT IS TO BE BLACK EXCEPT WHERE THE SUFFIX C IS USED TO DESIGNATE EPOXY COATED REINFORCEMENT.

1.3. WELDED WIRE FABRIC: CONFORM TO CSA G30 SERIES, GRADE 386, IN FLAT SHEETS.

1.4. STRUCTURAL STEEL:

1.4.1. STRUCTURAL WIDE FLANGE AND WELDED WIDE FLANGE SHAPES [W, WWF] TO CONFORM TO CAN/CSA-G40.20/G40.21 GRADE 350W.

1.4.2. ANGLES AND CHANNELS [L, C] TO CONFORM TO CAN/CSA-G40.20/G40.21 GRADE 300W.

1.4.3. HOLLOW STRUCTURAL SECTIONS [HSS] TO CONFORM TO ASTM A500 GRADE C.

1.5. SHOP PAINT/PRIMER:

1.5.1. ENSURE THAT THE SHOP PRIMER OR PAINT IS COMPATIBLE WITH SPRAY FIREPROOFING AND/OR THE TOP COAT PAINT SYSTEM SPECIFIED, WHERE APPLICABLE.

1.5.2. SHOP PAINT: TO CISC/CPMA 1-73A OR SSPC PAINT 15.

1.5.3. SHOP PRIMER: TO CISC/CPMA STANDARD 2-75.

1.6. HOT DIP GALVANIZING: CONFORM TO CSA G164, MINIMUM ZINC COATING OF 600G/M2.

1.7. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325M, NUTS SHALL CONFORM TO ASTM A563M, WASHERS SHALL CONFORM TO ASTM F436M.

1.8. ANCHOR BOLTS: GRADE A307 OR 300W THREADED ROD CONFORMING TO CSA G40.21-M.

1.9. STEEL DECK: CONFORM TO ASTM A653M GRADE A OR B, MINIMUM STEEL CORE THICKNESS OF 0.76 MM (0.030"), ACTUAL STEEL CORE THICKNESS IS TO BE DETERMINED BY THE SUPPLIER'S ENGINEER AND SHALL SATISFY ALL REQUIRED DESIGN CRITERIA. PROTECTIVE COATING - WIPE COATED STEEL DESIGNATION ZF075.

1.10. NON-SHRINK GROUT = PREMIXED COMPOSITION OF NON METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS, OF FLOWABLE CONSISTENCY AND CAPABLE OF ACHIEVING A COMPRESSIVE STRENGTH AT 28 DAYS OF AT LEAST 35 MPa.

1.11. BLOCK: CONFORM TO CAN3-A165 SERIES, MINIMUM COMPRESSIVE STRENGTH = 15.0 MPA (MIN.) BASED ON NET AREA.

1.12. MORTAR: CONFORM TO CSA A179 TYPE S FOR LOADBEARING WALLS UNLESS NOTED.

1.13. MASONRY GROUT: CONFORM TO CSA A179, 15 MPA MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, 250 MM (10") SLUMP, MAXIMUM AGGREGATE SIZE 10 MM (3/8").
- F. EXECUTION**
1. FOUNDATIONS

1.1. FOUND ALL FOOTINGS (AND UNDERPINNING) ON SOIL CAPABLE OF SUSTAINING AN UNFACTORED BEARING STRESS OF 150 kN/m² (3100 PSF).

1.2. FOUND ALL FOOTINGS WHICH WILL BE EXPOSED TO FROST ACTION IN THE COMPLETED BUILDING A MINIMUM OF 1200 MM (4'-0") BELOW FINISHED GRADE.

1.3. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. FOR STEPPED FOOTINGS, USE STEPS NOT EXCEEDING 600 MM (2'-0") IN HEIGHT AND 1200 MM (4'-0") (MIN) IN LENGTH.

1.4. SOIL BEARING CAPACITY SPECIFIED MUST BE VERIFIED IN WRITING BY THE SOIL ENGINEER PRIOR TO THE PLACING OF FOOTINGS AND ANY NON-COMFORMANCE WITH THE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEERS.

1.5. PLACE 150 MM CLEAR CRUSHED STONE OVER THE SUB-BASE, COMPACTED TO 100% SPMD, WITH A MAXIMUM SURFACE VARIATION OF +/- 10MM.

1.6. BELOW SLABS ON GRADE BACKFILL USING NATIVE MATERIALS OR ENGINEERED FILL APPROVED BY THE GEOTECHNICAL CONSULTANT AND COMPACT IN MAX 150 MM LIFTS TO 98% SPMD.

1.7. BELOW EXTERIOR LANDSCAPED AREAS BACKFILL USING NATIVE MATERIALS OR FREE DRAINING MATERIALS AND COMPACT IN MAX 150 MM LIFTS TO 98% SPMD.
2. SLAB-ON-GRADE

2.1. PLACE SLAB-ON-GRADE ON MATERIAL CAPABLE OF SUSTAINING A MINIMUM SLS BEARING PRESSURE OF 25 KPA (500 PSF) WITHOUT SETTLEMENT.

3. CONCRETE

3.1. THE CONTRACTOR SHALL ENSURE THAT REINFORCING STEEL IS ADEQUATELY BRACED AGAINST MOVEMENT DURING CONCRETE PLACING.

3.2. FABRICATE REINFORCEMENT IN ACCORDANCE WITH CAN/CSA A23.1 AND THE RSIC MANUAL OF STANDARD PRACTICE.

3.3. PERFORM FORMING OPERATIONS AND PLACE HARDWARE SO THAT FINISHED CONCRETE WILL BE WITHIN THE TOLERANCES SET OUT IN CAN/CSA-A23.1.

3.4. SAW-CUT SLABS ON GRADE AS SHOWN WITH A MAXIMUM LENGTH BETWEEN SAW-CUTS OF 4.5M (15'-0"). ARRANGE PANELS AS SHOWN OR TO THE CONSULTANTS APPROVAL.

3.5. AFTER A PERIOD OF AT LEAST 28 DAYS, FILL SAW-CUTS WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT. ENSURE THAT JOINTS TO BE FILLED ARE CLEAN, DRY AND FREE OF FOREIGN MATTER.

3.6. FOLLOW MANUFACTURER'S INSTRUCTIONS REGARDING INSTALLATION PROCEDURES AND MINIMUM EMBEDMENT OF ANCHORS.

3.7. GROUT BENEATH PLATES BEARING ON CONCRETE WITH AN APPROVED NON-SHRINK FLOWABLE GROUT. CONFORM TO THE MANUFACTURER'S DIRECTIONS FOR MIXING AND PLACING GROUT. COMPLETELY FILL VOIDS BENEATH STEEL BASES ON CONCRETE WITH AN APPROVED NON-SHRINK 36MPA (5KSI) GROUT.

3.8. ALL DOWELS SHALL HAVE MINIMUM EMBEDMENT EQUIVALENT TO THE STRAIGHT TENSION EMBEDMENT LENGTH OR 600 mm (2'-0"), WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE.

3.9. PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN ABOVE UNLESS NOTED OTHERWISE.

3.10. REINFORCEMENT IDENTIFIED AS CONTINUOUS SHALL TERMINATE WITH STANDARD END HOOKS AND SHALL BE LAPPED WITH CLASS B TENSION LAP SPLICES.

3.11. REINFORCEMENT LENGTHS NOTED IN TYPICAL DETAILS ARE MINIMUM LENGTHS UNLESS NOTED OTHERWISE.

3.12. LAP SPLICES FOR WELDED WIRE FABRIC (WWF) SHALL BE:

3.12.1. 152X152 WWF 500 MM (1'-8")

3.12.2. 102X102 WWF 350 MM (1'-2")

3.12.3. 51X51 WWF 250MM (10")

3.13. WHERE CONCRETE SLABS ARE CAST ON STEEL DECK, SCREED SLAB TO SUIT BEAM CAMBERS AND MAINTAIN MINIMUM SLAB THICKNESSES SPECIFIED.

3.14. CONCRETE COVER:

3.14.1. COVER SHALL BE MEASURED FROM THE DEEPEST POINT TEXTURED CONCRETE SURFACE [OR REGLET/REVEAL] TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES / STIRRUPS AND MAIN REINFORCEMENT.

3.14.2. ALL CONCRETE CAST AGAINST EARTH IS TO HAVE 75 MM (3") COVER, UNO.

3.15. WHERE REINFORCEMENT IS NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS, PROVIDE 152 X 152 MM 18.7 X MM 18.7 WELDED WIRE FABRIC AT IN SLABS ON GRADE, OR WALKS AND 51 X 51 MMS X 6 MMS 6 TOPPINGS 40 MM (2'-5") IN THICKNESS OR GREATER.

3.16. PLACING CONCRETE

3.16.1. CONFORM TO REQUIREMENTS OF CSA A23.1, AND THE FOLLOWING:

3.16.1.1. IMMEDIATELY BEFORE PLACING CONCRETE, CLEAN FORMS AND REINFORCEMENT OF FOREIGN MATTER.

3.16.1.2. DO NOT USE CONCRETE MIXED MORE THAN TWO HOURS AFTER INTRODUCTION OF MIXING WATER.

3.16.1.3. DURING HOT WEATHER CONDITIONS, DO NOT USE CONCRETE MIXED MORE THAN ONE HOUR AFTER INTRODUCTION OF MIXING WATER.

3.16.1.4. ALLOW 24 HOURS MINIMUM AFTER PLACING CONCRETE IN COLUMNS, PIERS OR WALLS BEFORE PLACING CONCRETE IN BEAMS OR SLABS SUPPORTED THEREON.

3.16.2. PLACE CONCRETE ON AND STEEL DECK FLOORS IN A MANNER THAT AVOIDS PILING UP OF CONCRETE. DO NOT DROP CONCRETE DIRECTLY FROM BUCKETS, BUT EMPLOY SUITABLE MEANS OF DISTRIBUTION. WET DOWN DECK DURING HOT WEATHER PRIOR TO CONCRETING.

3.16.2.1. REMOVE CONCRETE SPILLED ONTO FORMS AROUND HOISTING EQUIPMENT BEFORE DEPOSITING CONCRETE IN THESE AREAS.

3.17. CURING CONCRETE

3.17.1. CURE ALL CONCRETE IN ACCORDANCE WITH CSA A23.1, THE CONCRETE SUPPLIERS REQUIREMENTS AND AS SPECIFIED HEREIN.

3.18. PROTECTION

3.18.1. CONFORM TO THE REQUIREMENTS OF CSA A23.1. PROTECT FRESHLY DEPOSITED CONCRETE FROM FREEZING, PREMATURE DRYING AND EXTREMES OF TEMPERATURE. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND TO ACHIEVE THE SPECIFIED STRENGTH OF THE CONCRETE.

3.18.2. PROVIDE SUFFICIENT INSULATION, AND HEAT AS NECESSARY, TO PREVENT FREEZING OF FROST SUSCEPTIBLE SOIL WHICH LIES AGAINST STRUCTURAL ELEMENTS. IN PARTICULAR, PROTECT SOIL BENEATH FOOTINGS AND BEHIND FOUNDATION WALLS UNTIL THE BUILDING IS COMPLETED.

3.18.3. CRACK REPAIR: PRIOR TO COMPLETION OF THE PROJECT AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER CONCRETE HAS BEEN PLACED, EXAMINE CONCRETE FLOOR SURFACES AND REPAIR ALL MAJOR CRACKS IN THEM. ROUT CRACKS OUT WITH MECHANICAL ROUTER TO 13 mm (½") SQUARE APPROXIMATE CROSS SECTION. THEN CLEAN AND FILL CRACKS IN SAME MANNER AS SAW CUTS IN SLAB ON GRADE.

**4. STRUCTURAL STEEL**

4.1. CENTRE BEARING PLATES UNDER BEAMS UNLESS NOTED OTHERWISE.

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

4.3. FORCES INDICATED ARE FACTORED UNLESS NOTED OTHERWISE.

4.4. WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT VALUES ARE NOT INDICATED, DESIGN CONNECTIONS FOR FULL MOMENT CAPACITY OF THE SMALLER MEMBER JOINED.

4.5. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF THE BEAMS AT POINTS OF CONCENTRATED LOAD INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER TOP OF COLUMNS, UNLESS SHOWN BY DESIGN, THAT STIFFENERS ARE NOT REQUIRED.

4.6. PROVIDE ADEQUATE SUPPORT AND ENSURE ADEQUATE BEARING IS PROVIDE FOR STEEL DECK AT CONNECTIONS, COLUMNS OR OTHER IRREGULARITIES, OR AREAS WHERE DETAILING OF STRUCTURAL STEEL RESULTS IN LOSS OF SUPPORT FOR THE DECK.

4.7. DESIGN ALL BEAM CONNECTIONS FOR THE FACTORED VERTICAL SHEAR FORCE NOTED ON PLAN, WHERE NO FORCE IS INDICATED, DESIGN CONNECTIONS FOR A VERTICAL SHEAR FORCE OF 75 KN (50KN FOR C150 AND C100 SECTIONS). IN ADDITION, A MINIMUM OF TWO BOLTS ARE TO BE USED IN ALL BEAM CONNECTIONS.

4.8. UNLESS OTHERWISE NOTED, THE FABRICATOR'S ENGINEER SHALL DESIGN AND BE SOLELY RESPONSIBLE FOR ALL CONNECTIONS BETWEEN ALL STEEL MEMBERS INCLUDING, BUT NOT LIMITED TO: COLUMNS, BEAMS, GIRDERS, TRUSSES AND BRACES, AND BETWEEN SUCH MEMBERS AS SPANDREL ANGLES AND BEAMS, HANGERS, STIFFENERS, ETC., AND THEIR SUPPORTING MEMBERS BE THEY STEEL OR CONCRETE.

4.9. UNLESS OTHERWISE NOTED, THE FABRICATOR'S ENGINEER SHALL ALSO DESIGN AND BE RESPONSIBLE FOR SPECIFYING STIFFENERS, DOUBLER PLATES AND THE LIKE, REQUIRED TO MAINTAIN THE LOCAL STRENGTH AND STABILITY OF A MEMBER AND WHERE THESE STIFFENERS AND DOUBLER PLATES BECOME AN INTEGRAL PART OF THE CONNECTION OR WHERE THEY AFFECT THE CONNECTION OF OTHER STEEL FRAMING MEMBERS. TYPICAL EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: CRANKED SECTIONS, MOMENT CONNECTIONS BETWEEN COLUMNS AND BEAMS, CONNECTIONS TO HOLLOW STRUCTURAL SECTIONS, AND THE LIKE, WHERE CONNECTIONS ARE EXPOSED TO VIEW, THE DETAILING OF STIFFENERS, DOUBLE PLATES AND THE LIKE IS SUBJECT TO REVIEW BY THE ARCHITECT.

4.10. UNLESS OTHERWISE NOTED, THE DESIGN OF ALL BEAMS AND GIRDERS IS BASED ON THE ASSUMPTION THAT FASTENER HOLES THROUGH FLANGES WILL NOT EXCEED 15% OF THE GROSS FLANGE AREA. IF THE AREA OF HOLES EXCEEDS 15%, THE MEMBER SIZE SHALL BE ALTERED OR REINFORCED ACCORDINGLY.

4.11. PAINT ALL STRUCTURAL STEEL TO REQUIREMENTS OF CISC/CPMA 2-75. TOUCH UP ALL FIELD WELDS.

4.12. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164. TOUCH UP ALL WELDS AND DAMAGED GALVANIZING WITH ZINC-RICH PRIMER.

4.13. ALL WELDS SHALL CONFORM TO CSA STANDARD W59.

4.14. ALL WELDS EXPOSED TO VIEW SHALL BE GROUND SMOOTH.

4.15. DO NOT SPICE STRUCTURAL STEEL SECTIONS WITHOUT PRIOR APPROVAL OF THE CONSULTANT. ALL SPLICES SHALL DEVELOP THE FULL CAPACITY OF THE SECTION AND ARE TO BE TESTED BY NON DESTRUCTIVE METHODS, BY AN INDEPENDENT INSPECTION AND TESTING COMPANY, AT THE CONTRACTOR'S EXPENSE.

4.16. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS. CONFIRM COMPATIBILITY OF FIREPROOFING MATERIAL WITH STEEL PAINT.

4.17. CONNECTIONS

4.17.1. USE TYPES OF SHOP OR FIELD CONNECTIONS SHOWN ON THE DOCUMENTS, OR IN THE ABSENCE OF SUCH INFORMATION, USE THE MOST APPROPRIATE TYPE OF CONNECTIONS GIVEN THE APPLIED LOADS AND THE ARRANGEMENT OF MEMBERS.

4.17.2. DESIGN CONNECTIONS TO SAFELY WITHSTAND THE COMBINED PRIMARY EFFECTS OF AXIAL FORCE, SHEAR, MOMENT AND TORQUE AND ANY SECONDARY EFFECTS DUE TO WELDING.

4.17.3. SHEAR CONNECTIONS SHALL NOT BE LESS THAN ONE HALF THE DEPTH OF THE CONNECTED MEMBER.

4.17.4. WHERE NO AXIAL FORCE IS SHOWN FOR BEAM TO COLUMN CONNECTIONS, CONNECT BEAMS FRAMING INTO COLUMNS SUCH THAT THE COMBINED CAPACITIES OF THE CONNECTION ARE ABLE TO RESIST A TOTAL HORIZONTAL FORCE OF 2% OF THE FACTORED AXIAL LOAD IN THE COLUMN, IN ANY DIRECTION.

4.18. ALL STRUCTURAL STEEL BEAMS GREATER THAN 7200 MM (23'-6") IN LENGTH ARE TO HAVE AN UPWARD CAMBER OF 20 MM (¾"), UNLESS NOTED OTHERWISE. BEAMS LESS THAN 7200 MM (23'-6") IN LENGTH ARE NOT TO BE CAMBERED, UNLESS NOTED OTHERWISE. BEAMS ARE TO BE FABRICATED SUCH THAT ANY CURVATURE OF THE BEAMS DUE TO THE FABRICATION PROCESS IS UPWARD WHEN THE BEAM IS ERECTED.

4.19. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE A 10 MM (3/8") CAP PLATE FOR ALL HOLLOW BUILT-UP MEMBERS. PROVIDE CONTINUOUS SEAL WELD AROUND CAP PLATE.

4.20. SEAL ALL HOLLOW BUILT-UP MEMBERS EXPOSED TO WEATHER WITH CONTINUOUS SEAL WELDS, INCORPORATING STRUCTURAL WELDS WHERE SHOWN OR REQUIRED.

**5. STEEL DECK**

5.1. THE FLOOR STRUCTURE DESIGN IS BASED ON THE FOLLOWING COMPOSITE STEEL DECK PROFILES:

5.1.1. 76 MM (3") DECK - HB 30V BY VICWEST STEEL INC.

5.1.2. 38 MM (1 ½") DECK - HB 938INV BY VICWEST STEEL INC.

5.2. DIFFERENT TYPES OF STEEL DECK, WITH SIMILAR PROPERTIES TO THOSE LISTED ABOVE, MAY BE ACCEPTABLE SUBJECT TO THE REVIEW BY THE CONSULTANT. IF A DIFFERENT TYPE OF DECK PROPOSED RESULTS IN A DIFFERENT FLUTE SPACING OR CONCRETE QUANTITIES THAN THAT ASSUMED IN THE DESIGN, THE CONTRACTOR SHALL IDENTIFY THE DIFFERENCES AT THE TIME OF TENDER.

5.3. PROVIDE COMPOSITE STEEL DECK IN ALL ROOF AND FLOOR AREAS WHICH WILL RECEIVE A CONCRETE SLAB, UNLESS DECK IS NOTED TO BE DESIGNED AS FORMWORK ONLY.

5.4. ERECT DECK SUCH THAT IT IS FREE OF DIRT, SCALE, FOREIGN MATTER, DENTS, OR DEFORMATIONS.

5.5. BEAR DECK ON [MASONRY] [CONCRETE] [WOOD] SUPPORT SURFACES WITH [100 MM (4")] [150 MM (6")] MINIMUM BEARING, ALIGN AND LEVEL.

5.6. LAP ENDS OF DECK UNITS NOT RECEIVING CONCRETE SLAB A MINIMUM OF 50 MM (2") AND ONLY OVER SUPPORTING MEMBERS.

5.7. MAKE FUSION WELDS OF DECK TO SUPPORTING MEMBERS WELL WITHIN BEARING WIDTH OF SUPPORTING MEMBERS.

5.8. FOR ALL STEEL DECK WHICH DOES NOT RECEIVE A CONCRETE COVER SLAB, IMMEDIATELY TOUCH UP METALLIC COATED TOP SURFACE WITH PRIMER, WHERE THE COATING IS BURNED BY WELDING.

5.9. PROVIDE GAUGE METAL CLOSURES ALONG EDGES OF ALL DECK PARALLEL TO SPAN WHERE DECK IS NOT OTHERWISE CONTINUOUSLY SUPPORTED, AT ALL CHANGES IN DIRECTION OF THE SPAN OF THE DECK, AT ALL DISCONTINUITIES OF SLOPED DECK, AND AT ALL OPENINGS THROUGH CONCRETE SLABS ON STEEL DECK.

5.10. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, AND THE LIKE. INDICATE OPENINGS AND REINFORCEMENT FOR OPENINGS ON FABRICATION AND ERECTION DRAWINGS. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150 MM (6") SQUARE OR IN DIAMETER. REINFORCE OPENINGS HAVING A DIMENSION OVER 150 MM (6"), BUT NOT EXCEEDING 300 MM (12") IN FLOOR DECK OR 450 MM (18") IN ROOF DECK.

**6. LIGHTWEIGHT STRUCTURAL STEEL STUDS**

6.1. LIGHTWEIGHT STEEL FRAMING INCLUDES AXIAL LOAD BEARING WALL STUDS, LATERAL LOAD BEARING WALL STUDS AND FLOOR JOISTS.

6.2. ALL COLD FORM STEEL STUDS, JOISTS, CHANNEL BRIDGING, ANGLES, STRAPS, PLATES AND ASSOCIATED CONNECTION HARDWARE ARE TO BE SUPPLIED BY BAILEYS METAL PRODUCTS INC (UNLESS NOTED OTHERWISE) OR APPROVED ALTERNATIVE.

6.3. ALL COLD FORM STEEL INSTALLATIONS TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6.4. COLD FORM STEEL FRAMING TO FOLLOW THE FOUR PART UNIVERSAL DESIGNATOR SYSTEM WHICH IDENTIFIES DEPTH, FLANGE, WIDTH, MEMBER TYPE AND MATERIAL THICKNESS:

MEMBER DEPTH IN 1/100ths INCHES, THUS 600 MEANS 600/100 = 6" (152.4mm)

600

FLANGE WIDTH IN 1/100ths INCHES, THUS 162 MEANS 162/100 = 1.62" (41.28mm)

162

54

MATERIAL THICKNESS IN 1/1000ths INCHES, THUS 54 MEANS 54/1000 = 0.054" (1.367mm)

STYLE:

S = STUD OR JOIST SECTIONS

T = TRACK SECTIONS

U = CHANNEL SECTION

F = FURRING CHANNEL SECTIONS

6.4.1. MINIMUM THICKNESS NOTED IN MILS (1/100TH INCH). MINIMUM THICKNESS NOTED IS EXCLUSIVE OF COATINGS AND REPRESENTS 95% OF THE DESIGN THICKNESS.

6.4.2. ALL STRUCTURAL STEEL STUDS AND JOISTS TO BE MINIMUM 33 MILS UNLESS NOTED OTHERWISE.

6.4.3. FOR MATERIAL THICKNESS 43 MILS (18GA) OR THINNER, MINIMUM YIELD STRENGTH TO BE 33KSI. FOR MATERIAL THICKNESS 54 MILS (16GA) OR THICKER, MINIMUM YIELD STRENGTH TO BE 50KSI.

6.5. STEEL STUDS SHALL HAVE A MINIMUM COATING OF Z180 GALVANIZING IN ACCORDANCE WITH ASTM-A653/A653M. OTHER COATINGS PROVIDING EQUAL OR BETTER CORROSION PROTECTION MAY BE USED.

6.6. MINIMUM THICKNESS FOR BRIDGING CHANNELS SHALL BE 1.087 MM, UNLESS NOTED OTHERWISE.

6.7. MINIMUM THICKNESS FOR CLIP ANGLES SHALL BE 1.367mm UNLESS NOTED OTHERWISE.

6.8. CORING OR CUTTING OF COLD FORMED STEEL STUDS AND JOISTS ARE TO BE REVIEWED BY ENGINEER PRIOR TO CUTTING. CUTTING OF COLD FORM STEEL FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. NO TORCH OR MANUAL CUTTING IS PERMITTED.

6.9. SPACE WALL STUDS AT 16 INCHES MAXIMUM UNO. SPACE FLOOR JOISTS AT 16 INCHES MAXIMUM UNO.

6.10. FOR STUD WALLS, TRACK SECTIONS TO MATCH STUD GAUGE THICKNESS UNLESS NOTED OTHERWISE.

6.11. FOR STUD WALLS, ANCHOR TOP AND BOTTOM TRACK TO THE STRUCTURE AT A MAXIMUM SPACING OF 32" ON CENTRE UNLESS NOTED OTHERWISE

6.12. STUD WALLS TO BE COMPLETE WITH CONTINUOUS CHANNEL BRIDGING TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. MAXIMUM VERTICAL SPACING OF CHANNEL BRIDGING NOT TO EXCEED 1200MM (4'-0").

6.13. MAXIMUM FLEXURAL DEFLECTIONS UNDER SPECIFIED LIVE/WIND LOADS SHALL BE LIMITED TO THE FOLLOWING: FLOOR JOISTS / WALL STUDS, L/360 UNLESS NOTED OTHERWISE.

6.14. CONNECTIONS BETWEEN LIGHT STEEL FRAMING MEMBERS SHALL BE BY BOLTS, WELDING OR SHEET METAL SCREWS.

6.15. ALL SHEET METAL SCREWS TO BE PANHEAD SELF TAPPING, SELF DRILLING SHEET METAL SCREWS UNLESS NOTED OTHERWISE. SHEET METAL SCREWS SHALL HAVE A MINIMUM COATING THICKNESS OF 0.008MM ZINC. OTHER COATINGS PROVIDING EQUAL OR BETTER CORROSION PROTECTION MAY BE USED.

6.16. PENETRATION OF SHEET METAL SCREWS BEYOND JOINED MATERIALS SHALL NOT BE LESS THAN 3 EXPOSED THREADS.

6.17. SHEET METAL SCREWS COVERED BY SHEATHING MATERIALS SHALL HAVE A LOW PROFILE HEADS.

6.18. INSTALL CONCRETE ANCHORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

6.19. ENSURE THAT CONNECTED PARTS ARE IN CONTACT. PROVIDE CLAMPING BEFORE WELDING OR INSTALLING SCREWS AS REQUIRED.

6.20. ALLOW FOR APPROPRIATE END ECCENTRICITIES IN THE DESIGN OF AXIAL LOAD BEARING MEMBERS.

6.21. ALL COLD FORM STEEL INSTALLATIONS TO BE REVIEWED BY CONSULTANT PRIOR TO CLOSING IN STUDS FROM VIEW. PROVIDE CONSULTANT WITH MINIMUM 48 HOURS NOTICE TO SCHEDULE REVIEW.

**7. ALTERATIONS AND/OR CONNECTIONS TO EXISTING STRUCTURE**

7.1. PROPOSED SCHEDULE OF WORK TO BE COORDINATED WITH ALL SUBTRADES, THE CONSULTANT AND OWNER.

7.2. PROPOSED SEQUENCE OF WORK TO BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO START OF WORK.

7.3. INSPECT THE EXISTING BUILDING AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS.

7.4. PRIOR TO PROCEEDING WITH THE WORK, DETERMINE THE EXACT FOUNDING ELEVATIONS OF EXISTING FOOTINGS ADJACENT TO THE NEW WORK. REPORT THESE FINDINGS TO THE CONSULTANT.

7.5. PRIOR TO EXCAVATION OF STRUCTURAL STEEL, OPEN UP ALL AREAS WHERE CONNECTIONS ARE TO BE MADE TO EXISTING WORK AND TAKE FIELD MEASUREMENTS. MODIFY METHODS FOR CONNECTING TO SUIT SITE CONDITIONS FOUND AND TO THE APPROVAL OF THE CONSULTANT. CARRY OUT LOCAL REPAIRS TO THE EXISTING WORK AS NECESSARY AND AS DIRECTED BY THE CONSULTANT.

7.6. SHORE EXISTING WORK AS REQUIRED UNTIL ALL NEW WORK HAS BEEN COMPLETED AND REVIEWED BY THE CONSULTANT.

7.7. PROVIDE SLOTTED HOLES AND FRICTION TYPE BOLTED CONNECTIONS TO CONNECT NEW STEEL TO EXISTING WORK.

7.8. SHORE FLOORS AS REQUIRED TO SUPPORT CRANES, HOISTS AND OTHER CONSTRUCTION EQUIPMENT.

7.9. DO NOT CUT CONCRETE REINFORCEMENT UNLESS REVIEWED AND APPROVED BY THE CONSULTANT.

7.10. WHERE REQUIRED TO AVOID CUTTING EXISTING REINFORCEMENT, MODIFY THE LAYOUT OF NEW THROUGH BOLTS, EXPANSION ANCHORS AND OTHER ANCHORING DEVICES.

7.11. MAKE GOOD THE EXISTING WORK.

8. CUTTING AND CORING OF EXISTING STRUCTURE

8.1. PRIOR TO CUTTING AND CORING ANY OPENINGS IN THE EXISTING BUILDING, PROVIDE THE CONSULTANT WITH A SLEEVING DRAWING INDICATING THE SIZE AND LOCATION OF OPENING RELATIVE TO BUILDING GRID LINES. EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING MUST ALSO BE SHOWN.

8.2. ALL DIMENSIONS PROVIDED TO THE CONSULTANT ARE TO BE CONFIRMED WITH THE APPROPRIATE CONTRACTOR (MECHANICAL OR ELECTRICAL) PRIOR TO CUTTING/CORING.

8.3. ANY REVISIONS TO THE DIMENSIONS BY THE CONSULTANT MUST BE REVIEWED BY THE APPROPRIATE CONTRACTOR PRIOR TO CUTTING/CORING.

8.4. THE CONSULTANT MAY IDENTIFY AREAS WHERE EXISTING REINFORCEMENT AND EMBEDDED SERVICES MUST BE LOCATED PRIOR TO CUTTING/CORING. THIS REINFORCEMENT IS TO BE LOCATED BY A POSITIVE MEANS, (I.e. X-RAYING, LOCAL CHIPPING OF SLAB- WHERE PERMITTED BY THE CONSULTANT, USE OF COVER METER).

8.5. AFTER REINFORCEMENT AND EMBEDDED SERVICES HAS BEEN LOCATED IN THESE AREAS, NOTIFY CONSULTANT WHO WILL REVIEW AND APPROVE LOCATION PRIOR TO CUTTING/CORING. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATION AS DIRECTED BY THE CONSULTANT.

8.6. FOR ANY OPENINGS WHICH ARE TO BE SAWCUT INTO THE EXISTING STRUCTURE, PRE-DRILL THE CORNERS USING A 100 mm DIAMETER CORE DRILL. DO NOT OVERCUT CORNERS OF OPENING.

8.7. ALL PRICES FOR CUTTING/CORING ARE TO INCLUDE ANY COSTS ASSOCIATED WITH X-RAYING, CHIPPING, ETC.

8.8. FOR ANY AREAS WHERE REINFORCEMENT IS CUT, THE CONTRACTOR IS TO INDICATE THE DIRECTION AND LAYER OF REINFORCEMENT ON THE AS-BUILT SLEEVING DRAWINGS.

8.9. FOR LARGE OPENINGS THROUGH A FLOOR AREA, ADDITIONAL REINFORCEMENT OF THE SLAB MAY BE REQUIRED. THE CONSULTANT WILL ISSUE ADDITIONAL DETAILS AS REQUIRED.

**G. QUALITY CONTROL**

1. GENERAL

1.1. IMPLEMENT A SYSTEM OF QUALITY CONTROL TO ENSURE THAT THE MINIMUM STANDARDS SPECIFIED HEREIN ARE ATTAINED.

1.2. BRING TO THE ATTENTION OF THE CONSULTANT ANY DEFECTS IN THE WORK OR DEPARTURES FROM THE CONTRACT DOCUMENTS, WHICH MAY OCCUR DURING CONSTRUCTION. THE CONSULTANT WILL DECIDE UPON CORRECTIVE ACTION AND GIVE RECOMMENDATIONS IN WRITING.

1.3. THE CONSULTANT'S GENERAL REVIEW DURING CONSTRUCTION AND INSPECTION AND TESTING BY INDEPENDENT INSPECTION AND TESTING AGENCIES REPORTING TO THE CONSULTANT ARE BOTH UNDERTAKEN TO INFORM THE CLIENT OF THE CONTRACTOR'S PERFORMANCE AND SHALL IN NO WAY AUGMENT THE CONTRACTOR'S QUALITY CONTROL OR RELIEVE THE CONTRACTOR OF CONTRACTUAL RESPONSIBILITY.

2. NOTIFICATION

2.1. PRIOR TO COMMENCING SIGNIFICANT SEGMENTS OF THE WORK, GIVE THE CONSULTANT AND INDEPENDENT INSPECTION AND TESTING COMPANIES APPROPRIATE NOTIFICATION (MINIMUM 24 HOURS) SO AS TO AFFORD THEM REASONABLE OPPORTUNITY TO REVIEW THE WORK. FAILURE TO MEET THIS REQUIREMENT MAY BE CAUSE FOR THE CONSULTANT TO CLASSIFY THE WORK AS DEFECTIVE.

3. INSPECTION AND TESTING

3.1. THE CLIENT WILL APPOINT AN INDEPENDENT INSPECTION AND TESTING COMPANY TO MAKE INSPECTIONS OR PERFORM TESTS AS THE CLIENT DIRECTS. THE INDEPENDENT INSPECTION AND TESTING COMPANIES SHALL BE RESPONSIBLE ONLY TO THE CLIENT AND SHALL MAKE ONLY SUCH INSPECTIONS OR TESTS AS THE CLIENT MAY DIRECT. AUTHORIZED INSPECTION AND TESTING SHALL BE PAID FOR BY THE OWNER.

4. DEFECTIVE MATERIALS AND WORK

4.1. WHERE EVIDENCE EXISTS THAT DEFECTIVE WORK HAS OCCURRED OR THAT WORK HAS BEEN CARRIED OUT INCORPORATING DEFECTIVE MATERIALS, THE CONSULTANT MAY HAVE TESTS, INSPECTIONS OR SURVEYS PERFORMED, ANALYTICAL CALCULATIONS OF STRUCTURAL STRENGTH MADE, AND THE LIKE, IN ORDER TO HELP DETERMINE WHETHER THE WORK MUST BE CORRECTED OR REPLACED. TESTS, INSPECTIONS, SURVEYS, OR CALCULATIONS CARRIED OUT UNDER THESE CIRCUMSTANCES WILL BE MADE AT THE CONTRACTOR'S EXPENSE, REGARDLESS OF THEIR RESULTS, WHICH MAY BE SUCH THAT, IN THE CONSULTANT'S OPINION, THE WORK MAY BE ACCEPTABLE.

4.2. ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE, EXCEPT WHERE THIS WOULD, IN THE CONSULTANT'S OPINION, CAUSE UNDUE DELAY OR GIVE RESULTS NOT REPRESENTATIVE OF THE REJECTED MATERIAL IN PLACE. IN THIS CASE, THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARDS GIVEN BY THE CONSULTANT.

4.3. MATERIALS OR WORK, WHICH FAIL TO MEET SPECIFIED REQUIREMENTS, MAY BE REJECTED BY THE CONSULTANT WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK REGARDLESS OF PREVIOUS INSPECTION. IF REJECTED, DEFECTIVE MATERIALS OR WORKMANSHIP SHALL BE PROMPTLY REMOVED AND REPLACED OR REPAIRED TO THE SATISFACTION OF THE CONSULTANT, AT NO EXPENSE TO THE OWNER.

Seat:

Structural Consultant:

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No.	Date	Revision
12		
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

Scale:	N.T.S.	Designer:	KL
Drawn by:	SS	Checked by:	WP

Project Name

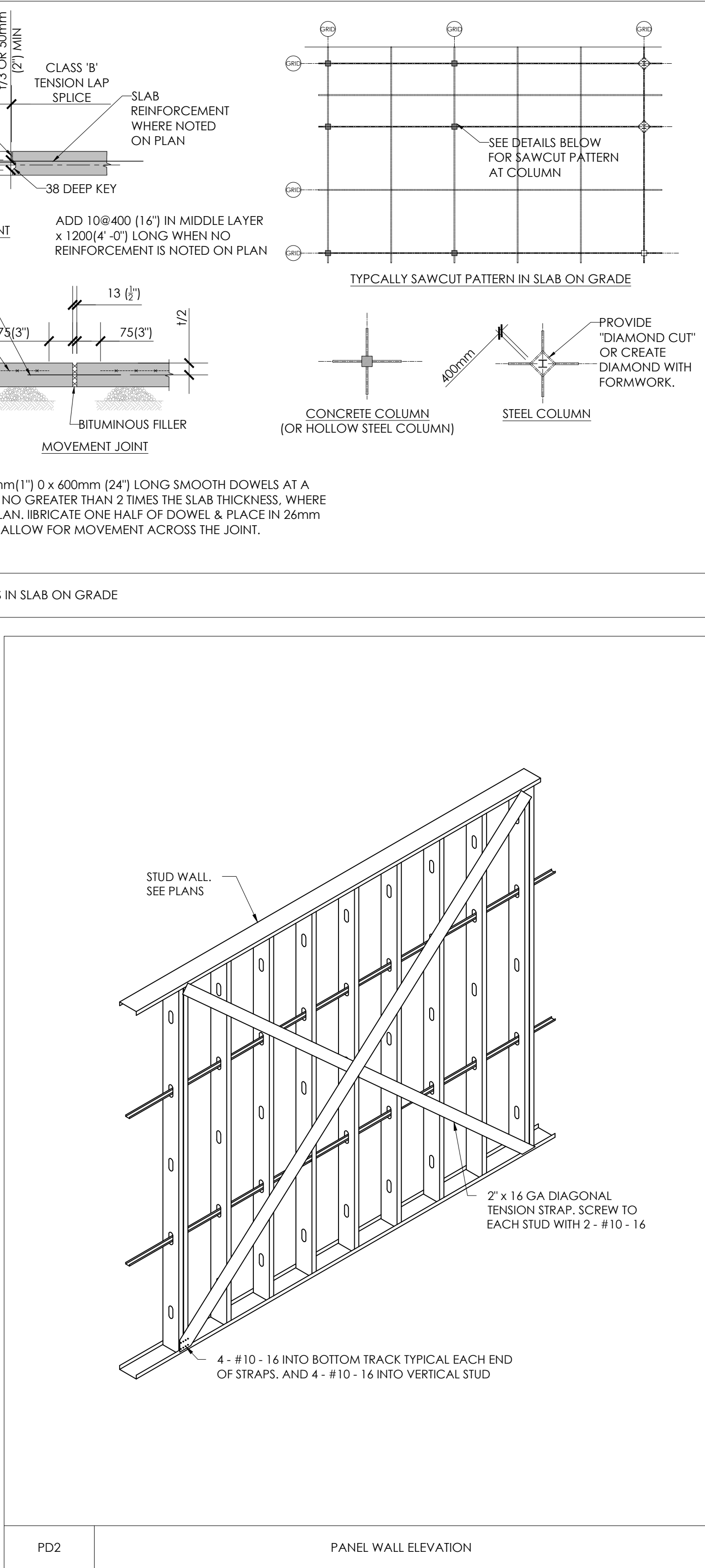
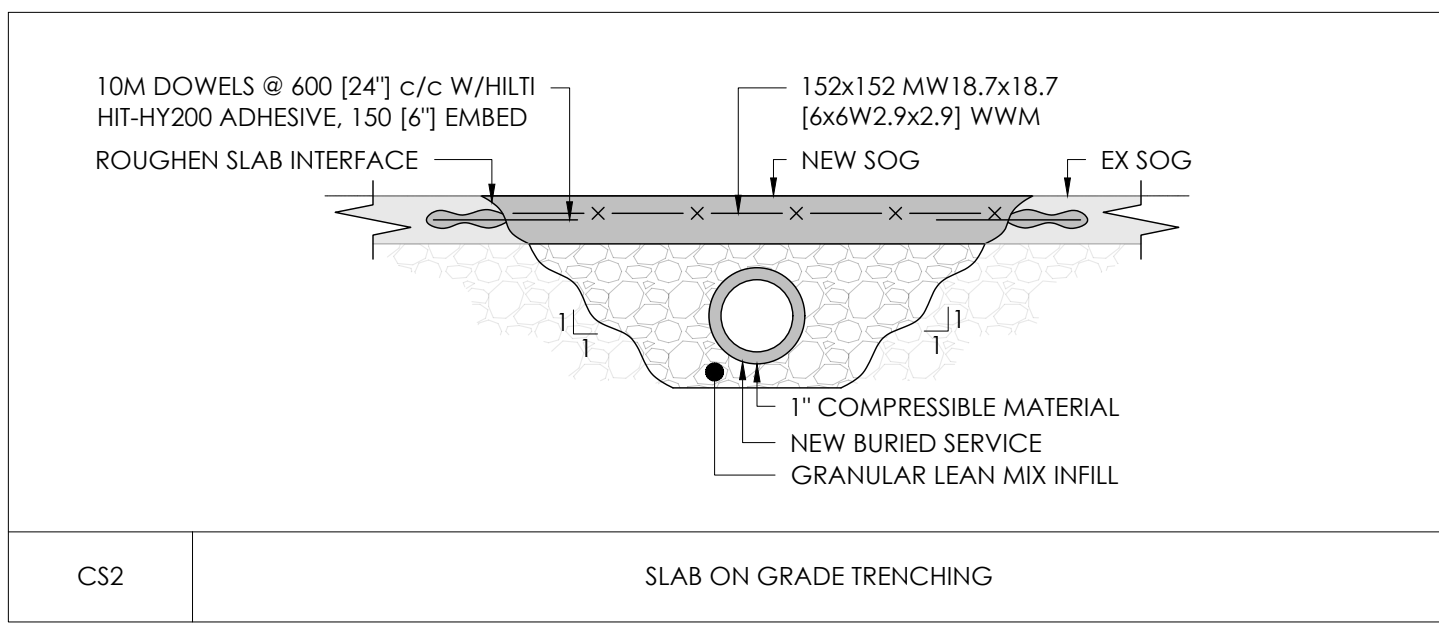
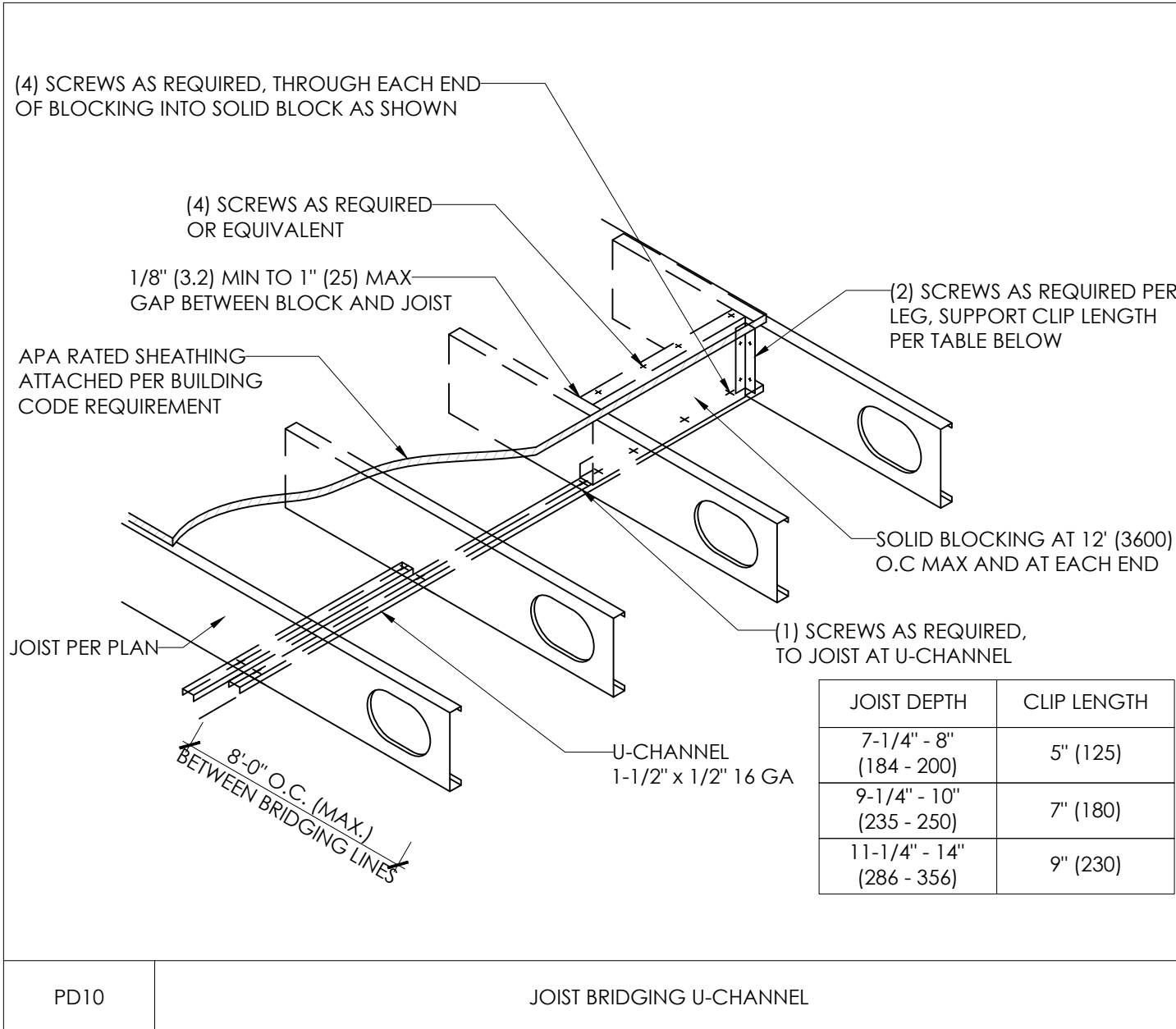
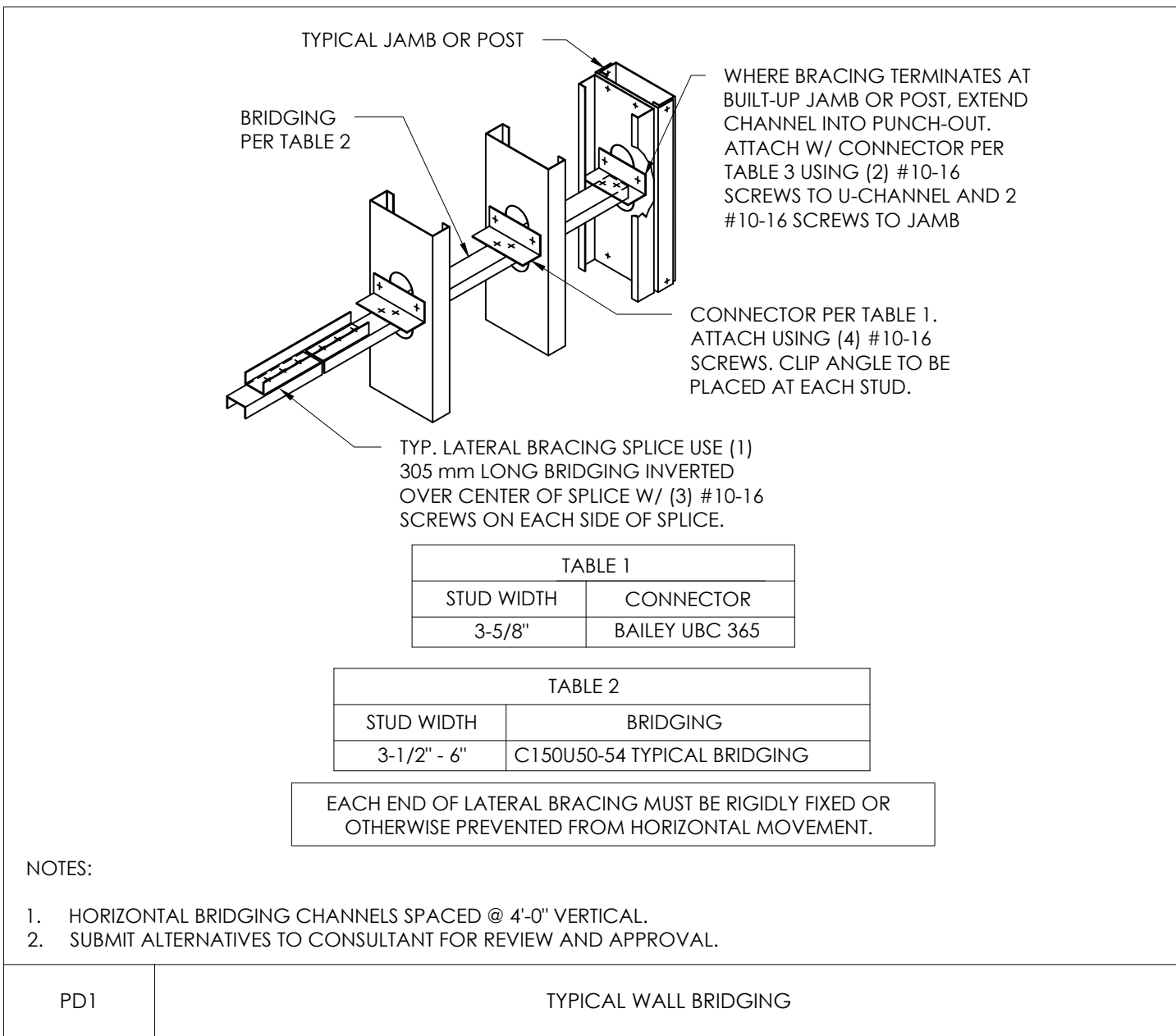
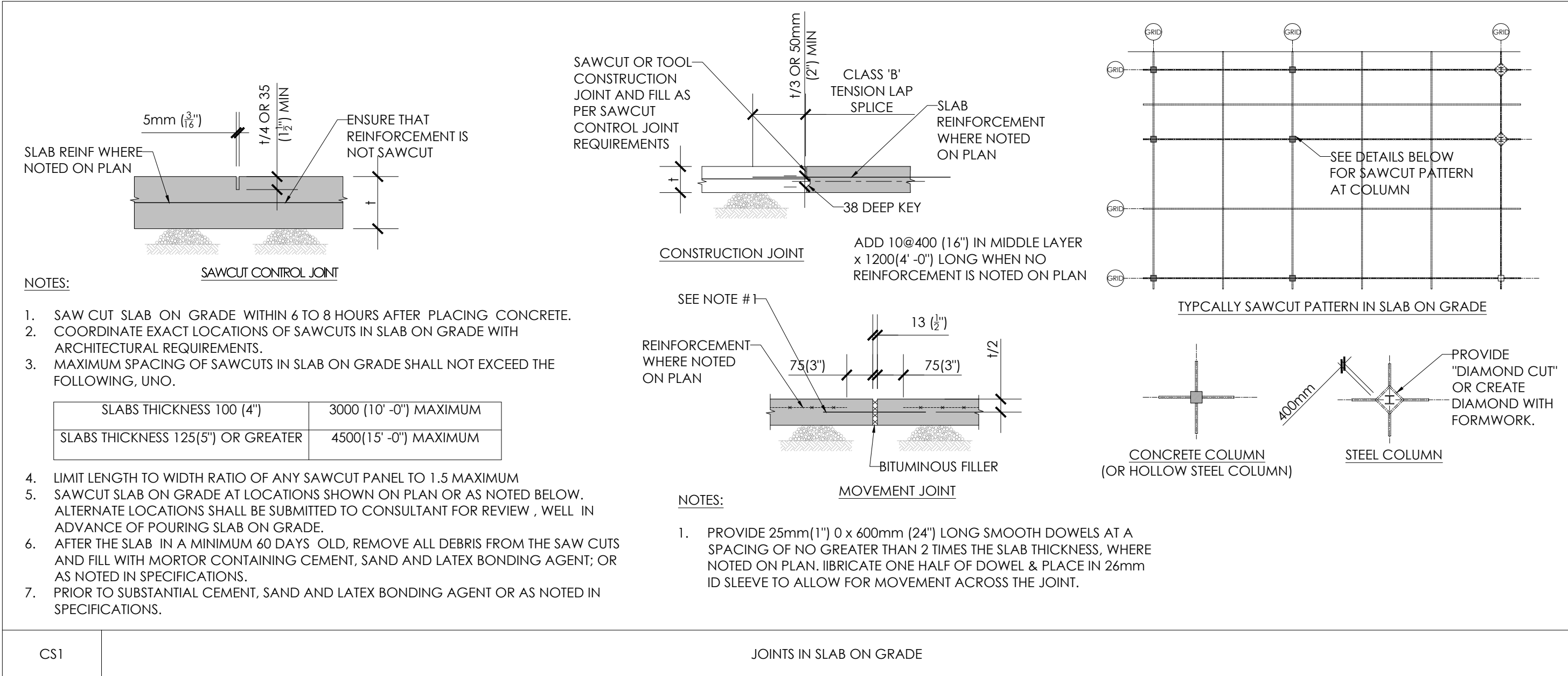
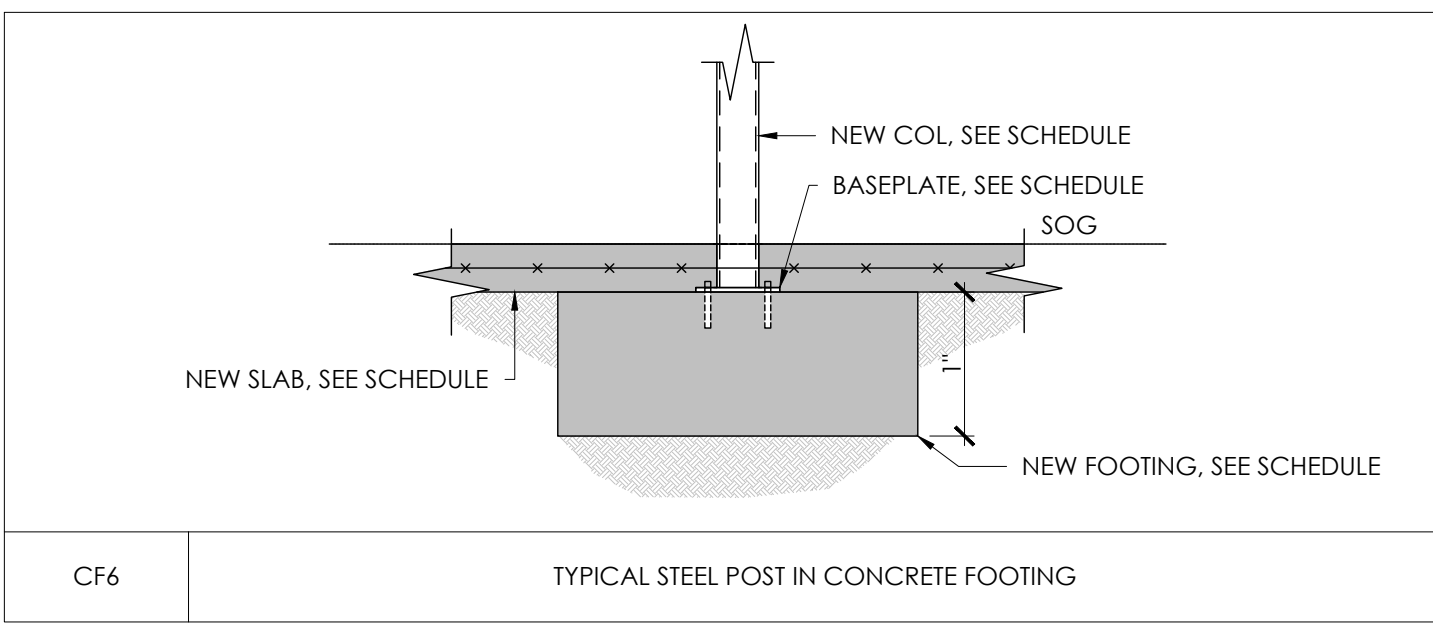
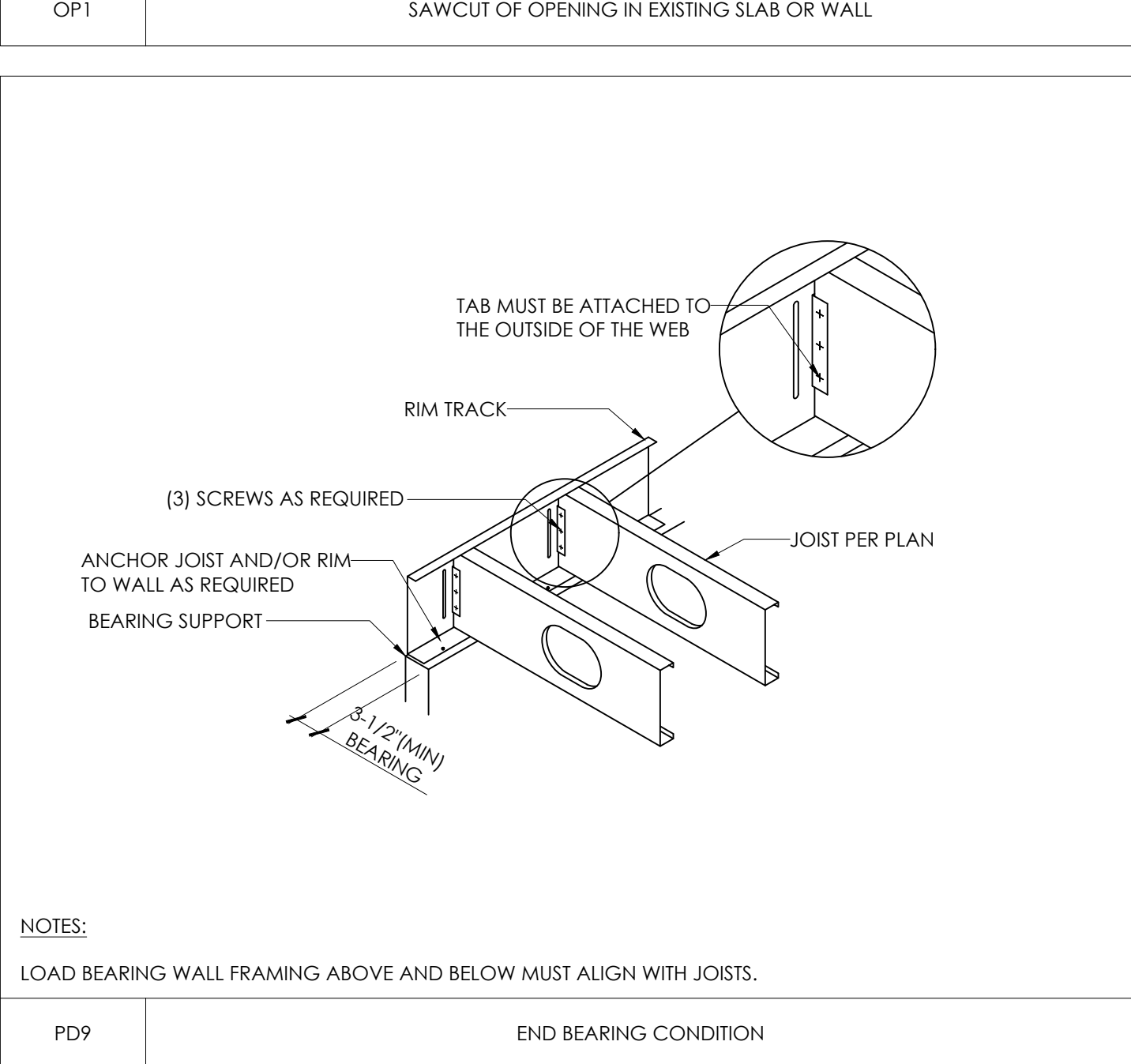
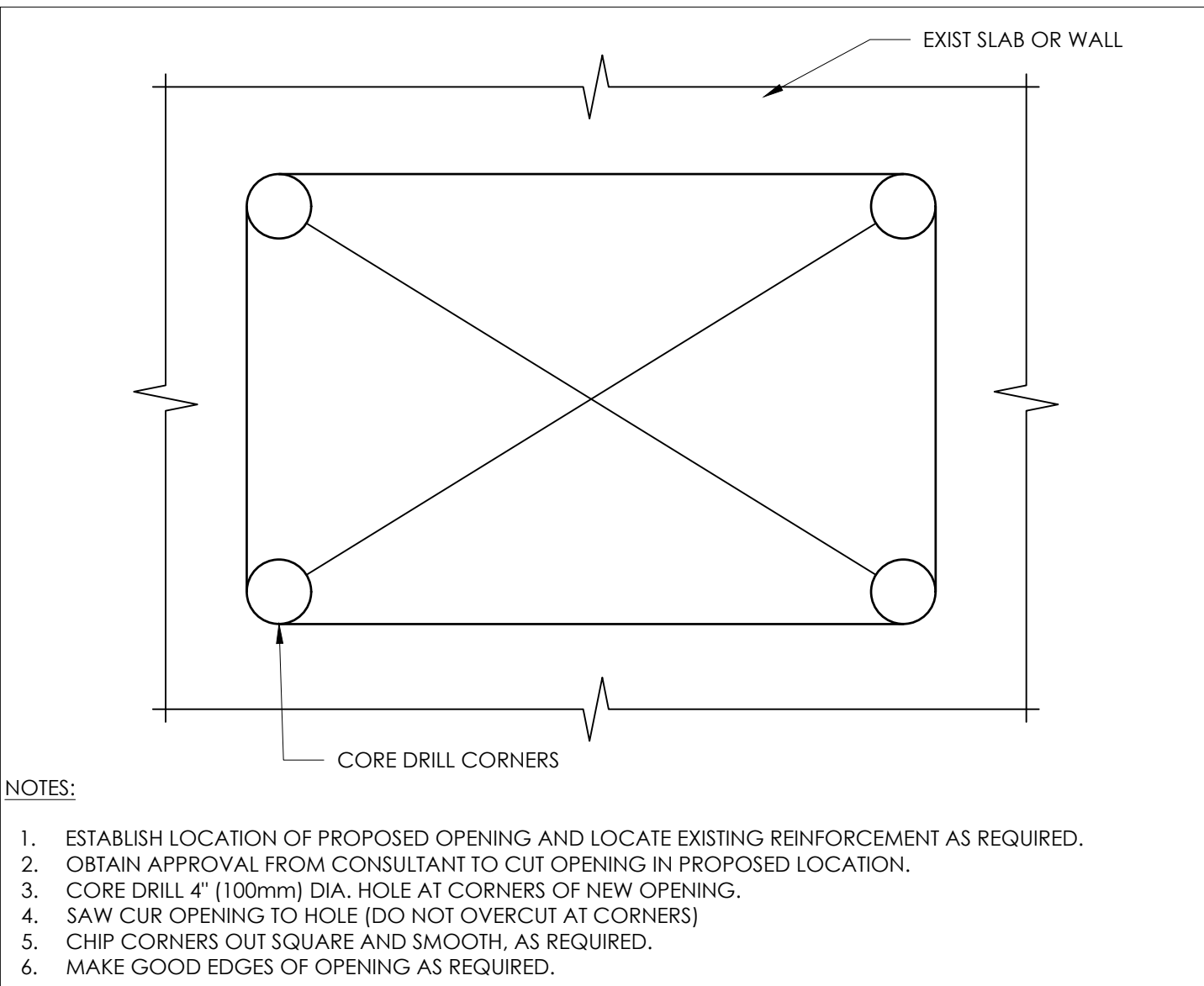
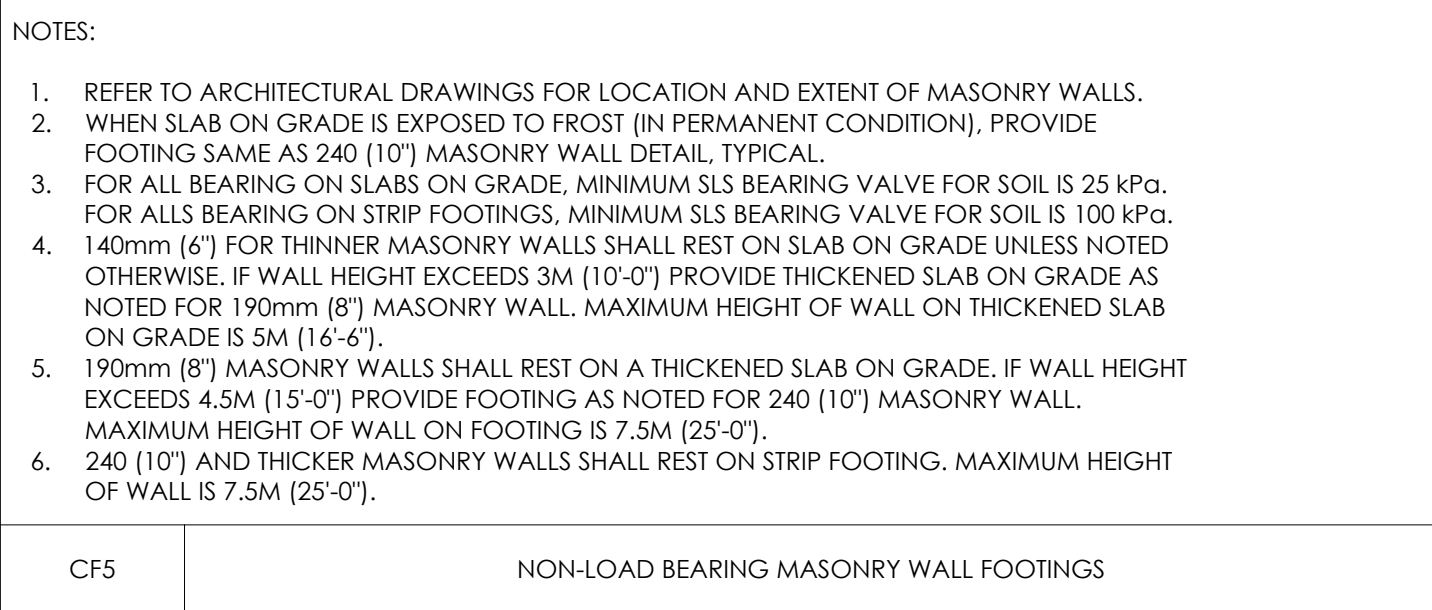
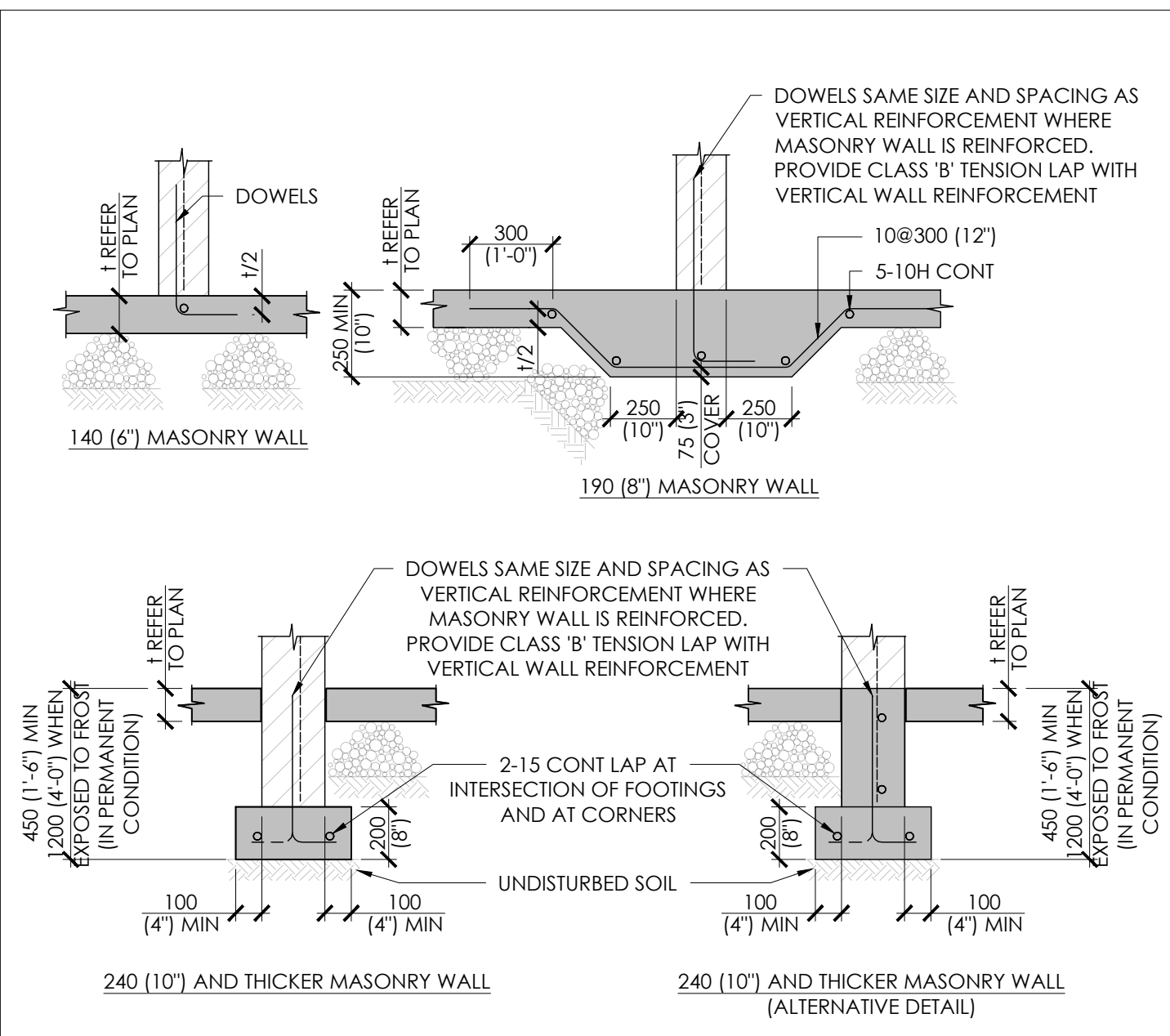
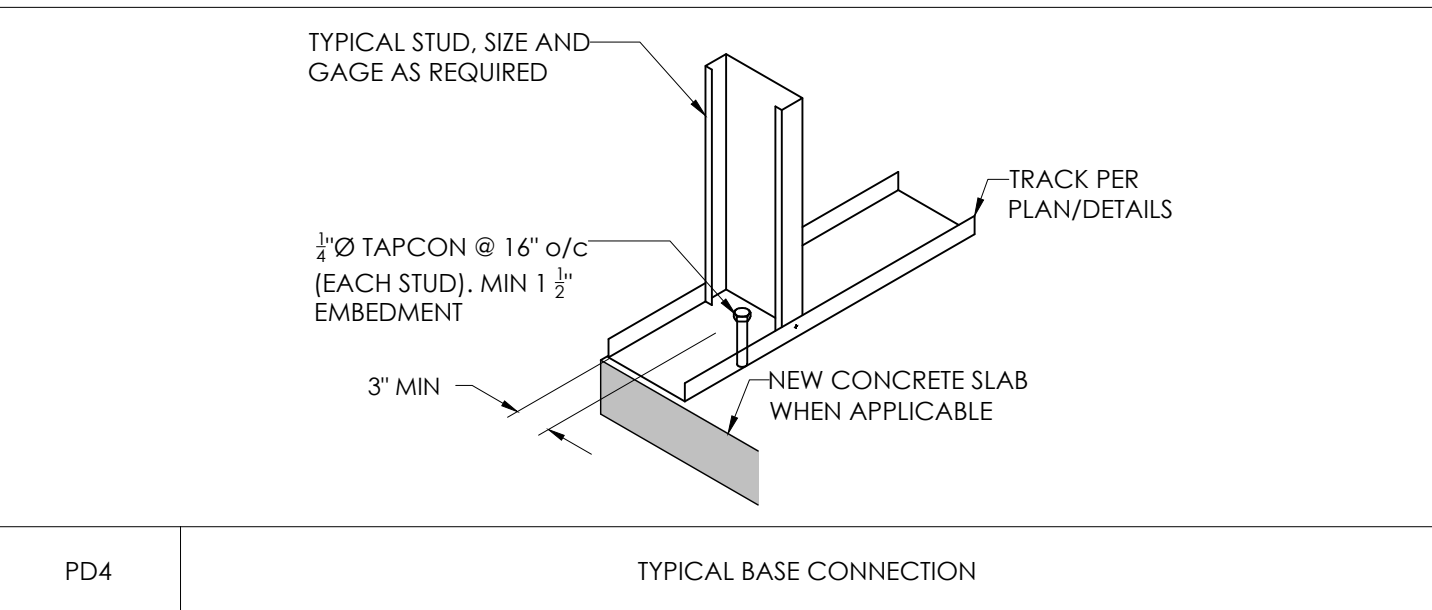
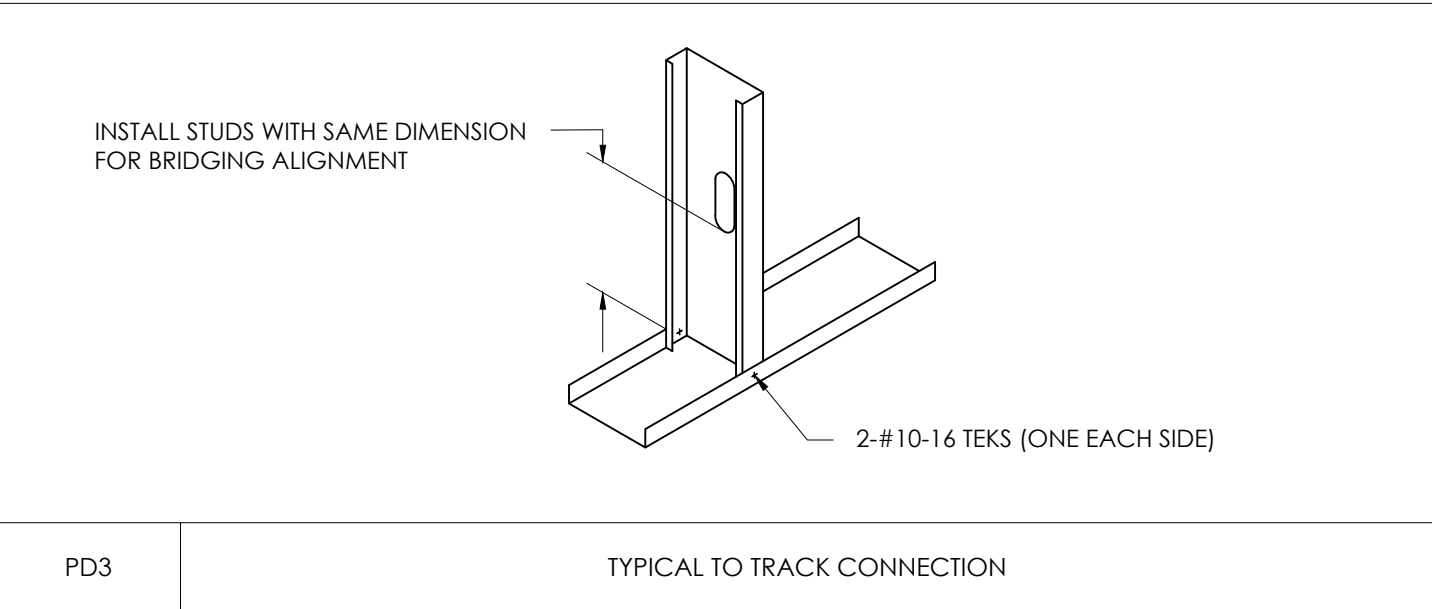
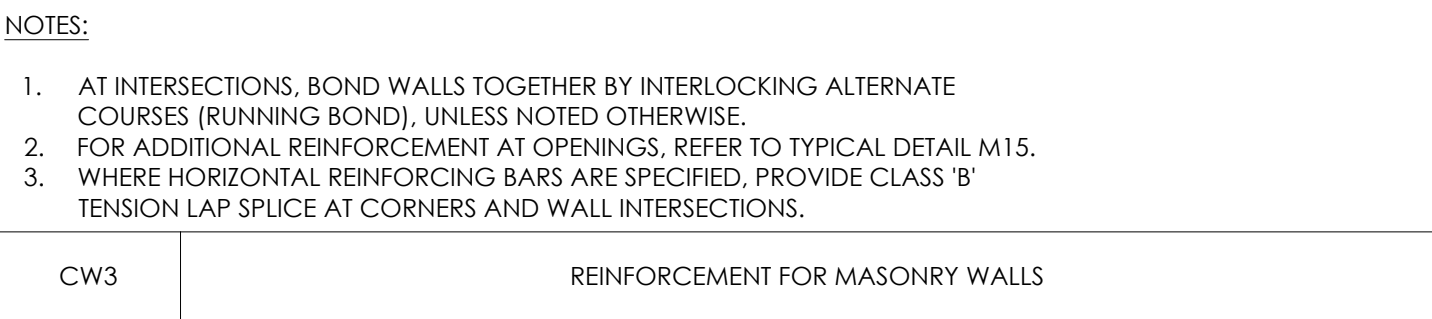
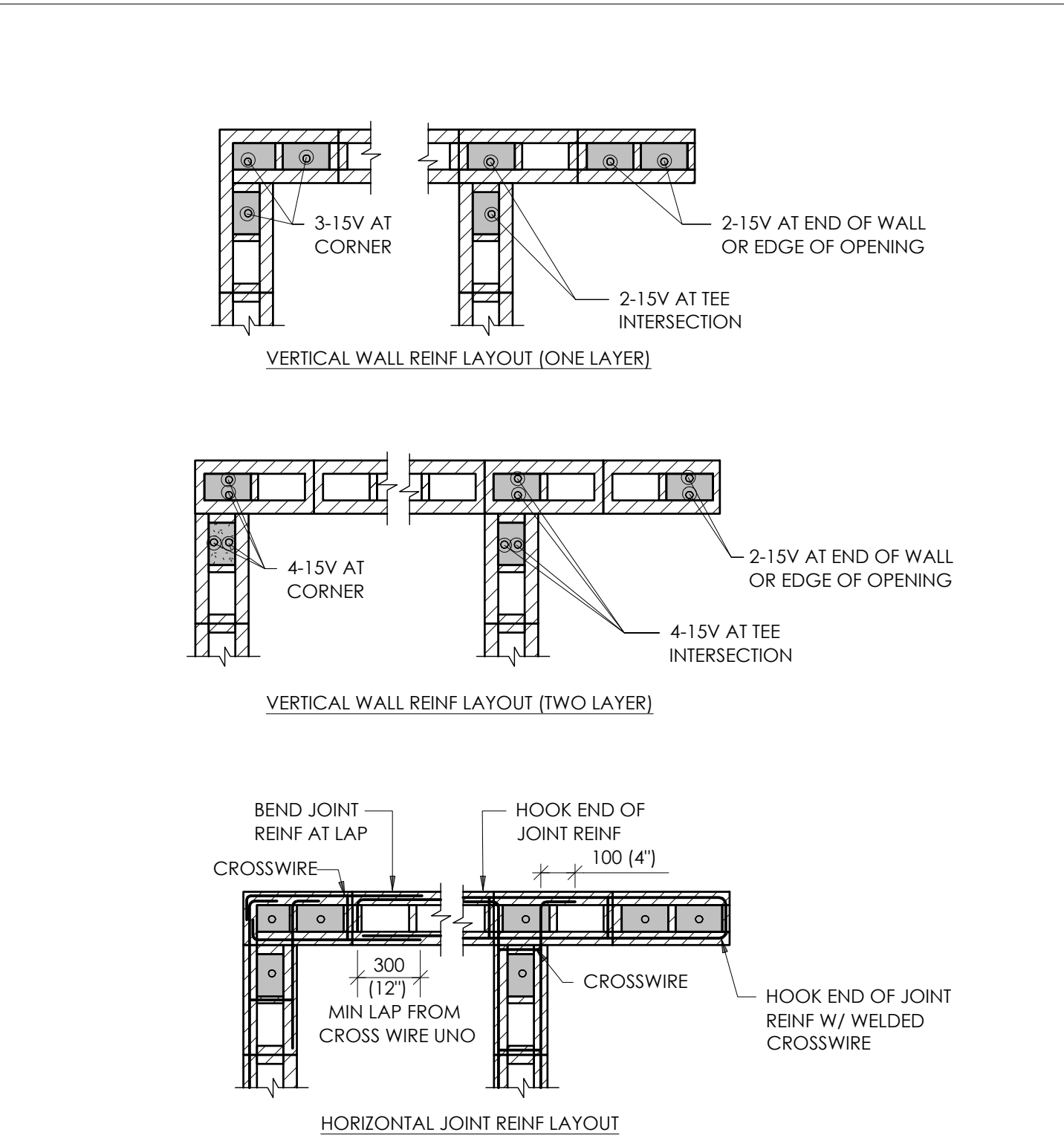
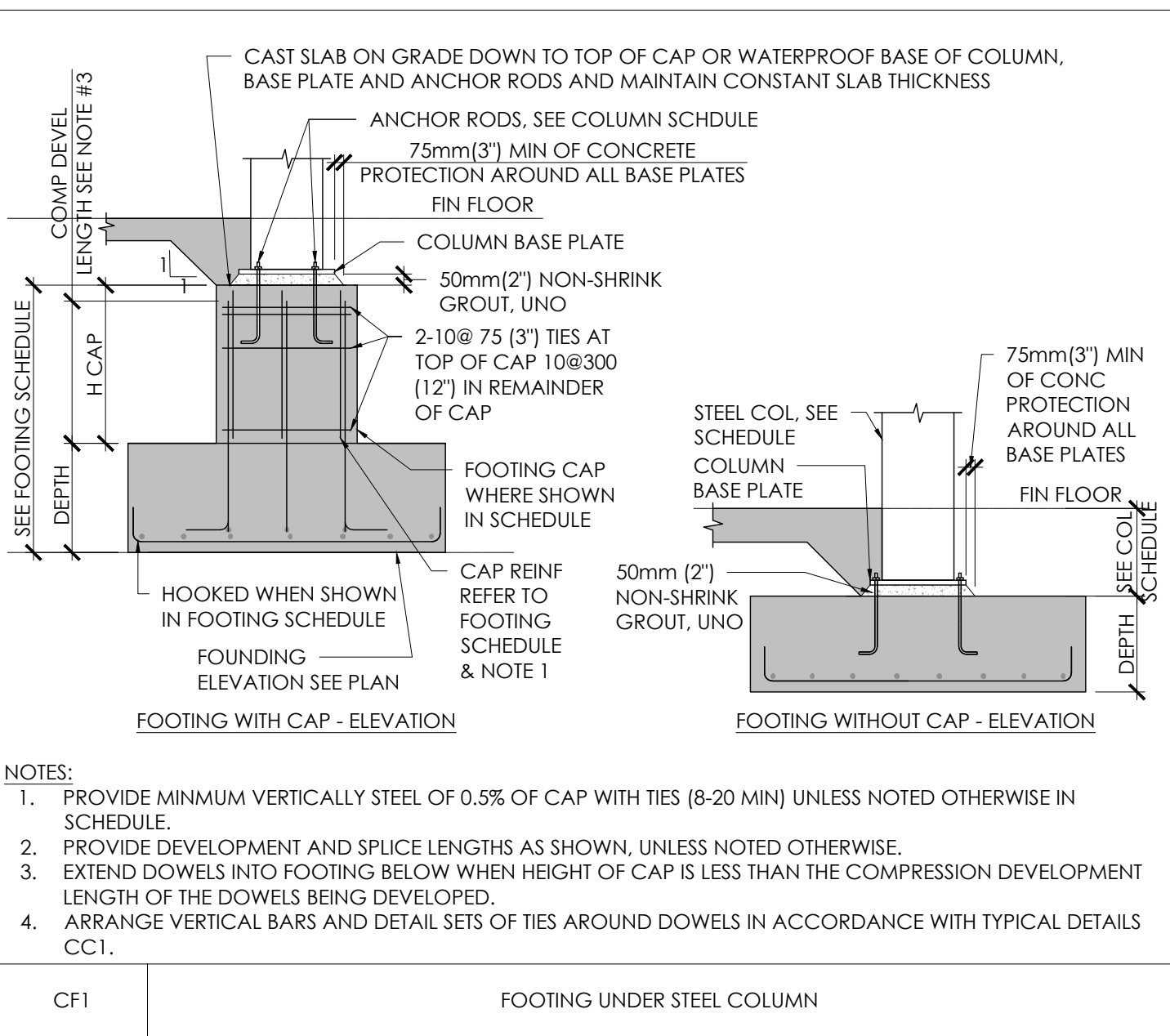
145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title

GENERAL NOTES

Project no.	Drawing no.
22.478	S001





Seal:

Structural Consultant:

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1	2023.08.01	60% DD Costing

Scale:	Designer:
N.T.S.	KL

Drawn by:	Checked by:
SS	WP

Project Name

145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title

TYPICAL DETAILS

Project no.	Drawing no.
22.478	S010



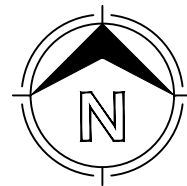




Structural Consultant:



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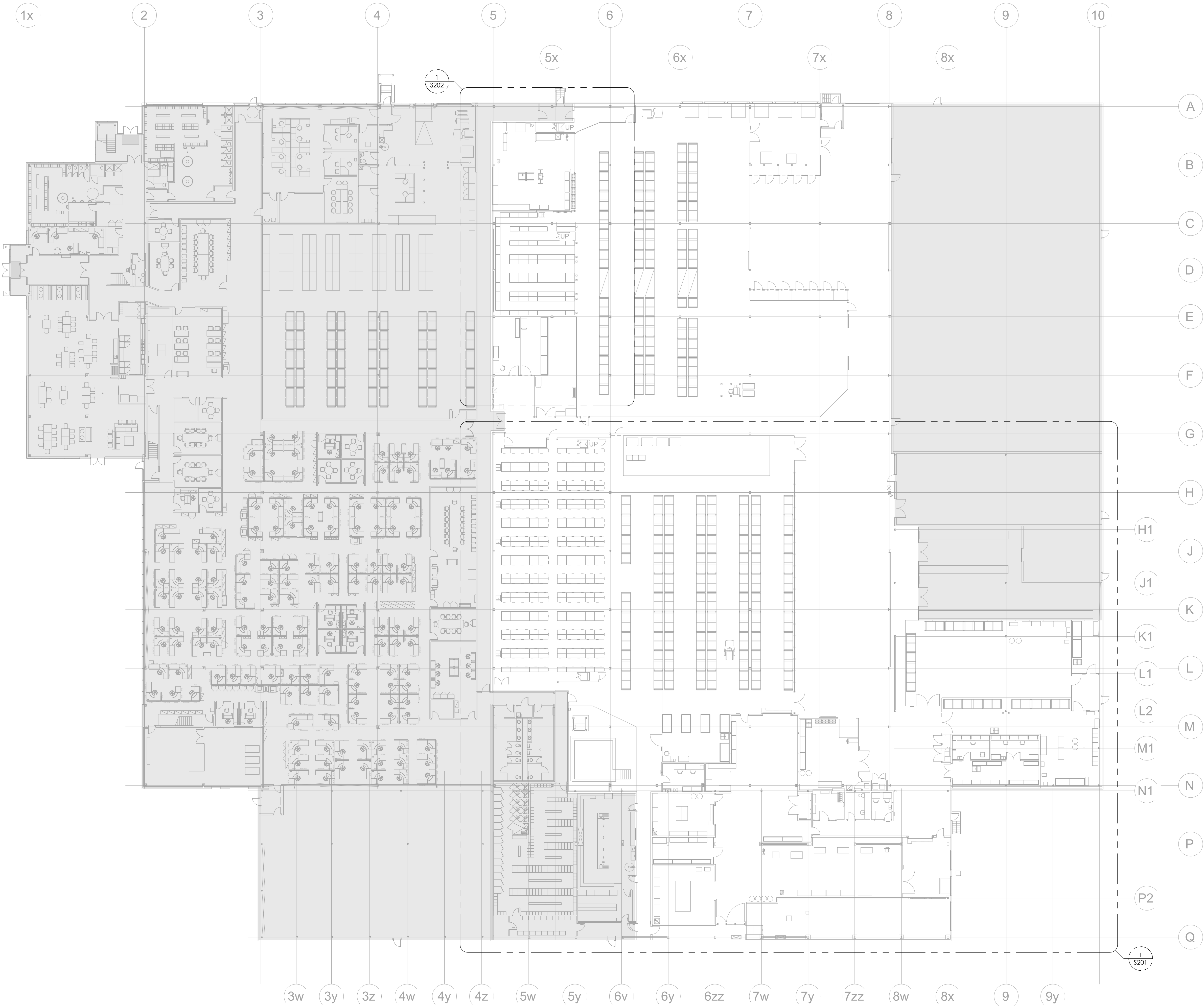
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1	2023.08.01	60% DD Costing
No.	Date	Revision

Scale:	1:250	Designer:	KL
Drawn by:	SS	Checked by:	WP

Project Name  
145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title  
OVERALL FIRST FLOOR PLAN

Project no.	22.478	Drawing no.	S200
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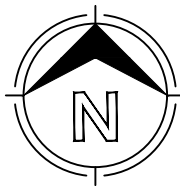


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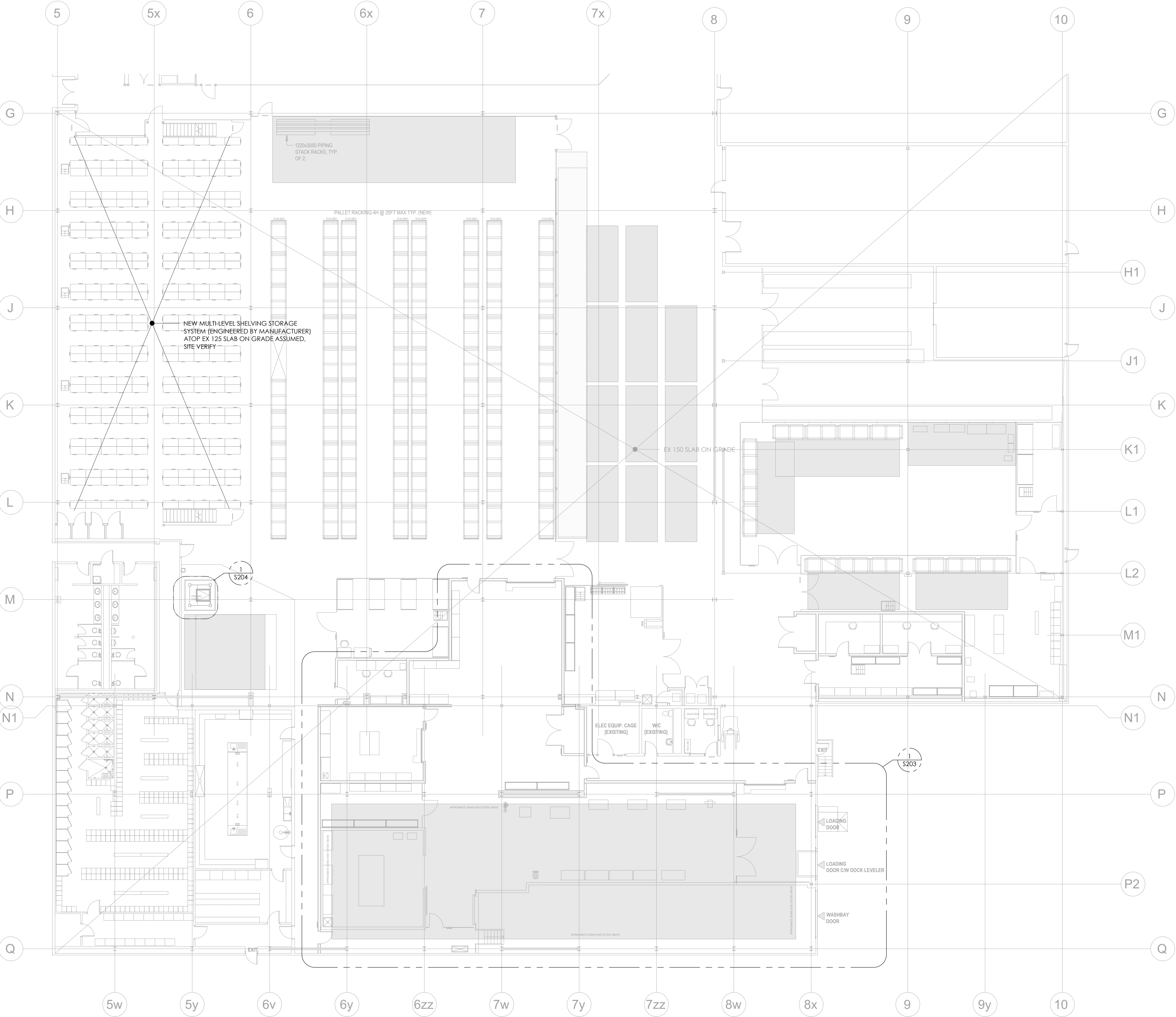
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1	2023.08.01	60% DD Costing
No.	Date	Revision

Scale:	1:150	Designer:	KL
Drawn by:	SS	Checked by:	WP

Project Name	145 Harry Walker Pkwy Newmarket, Ontario
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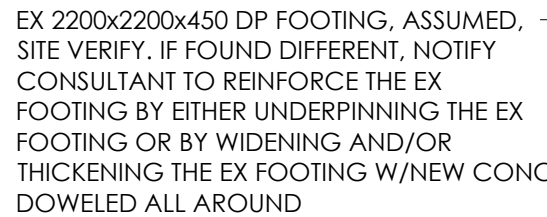
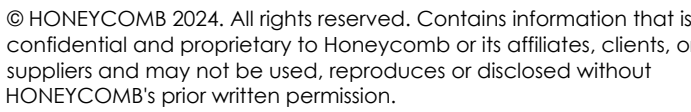
Drawing Title	ENLARGED FIRST FLOOR PLAN
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Project no.	22.478	Drawing no.	S201
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1  
S201  
1:150  
ENLARGED FIRST FLOOR PLAN

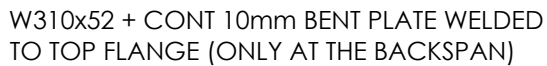




NEW MULTI-LEVEL SHELVING STORAGE SYSTEM  
(ENGINEERED BY MANUFACTURER) ATOP EX  
125 SLAB ON GRADE, ASSUMED, SITE VERIFY

NOTES:

1. WE HAVE ASSUMED THAT THE EXISTING STRUCTURE IS IN GOOD CONDITION. SITE VERIFY ALL EXISTING CONDITIONS SHOWN AND NOTIFY CONSULTANT IF FOUND DIFFERENT.
2. GEOTECHNICAL ENGINEER TO CONFIRM ALLOWABLE BEARING PRESSURE OF 2100 psf (100 kPa). NOTIFY CONSULTANT IF FOUND DIFFERENT.
3. CENTER FOOTINGS UNDER COLUMNS EXCEPT AS NOTED ON PLAN.
4. REFER TO TYPICAL DETAILS ON DRAWINGS S10 TO S12.
5. REFER TO GENERAL NOTES AND DESIGN NOTES.



MOMENT CONNECTION SHOWN THUS, TO BE DESIGNED -  
FOR A FACTORED MOMENT  $M_f = 30 \text{ kN-m}$ . PROVIDE SHOP  
DRAWINGS FOR ALL STEEL CONNECTIONS SEALED BY A  
P.ENG LICENCED IN THE PROVINCE OF ONTARIO, TYP.

FINAL STAIR DESIGN BY STAIR  
FABRICATOR. PROVIDE SEALED SHOP  
DWGS FOR CONSULTANT REVIEW

C2 - HSS 127x127x6.4 ABOVE —

W30x39 \* CONT TUBING BENT  
PLATE WELDED TO TOP FLANGE

REFER TO 2/S202A FOR SECTION

W310x39 + CONT 10mm BENT  
PLATE WELDED TO TOP FLANGE

C1 - NEW HSS 203x203x13

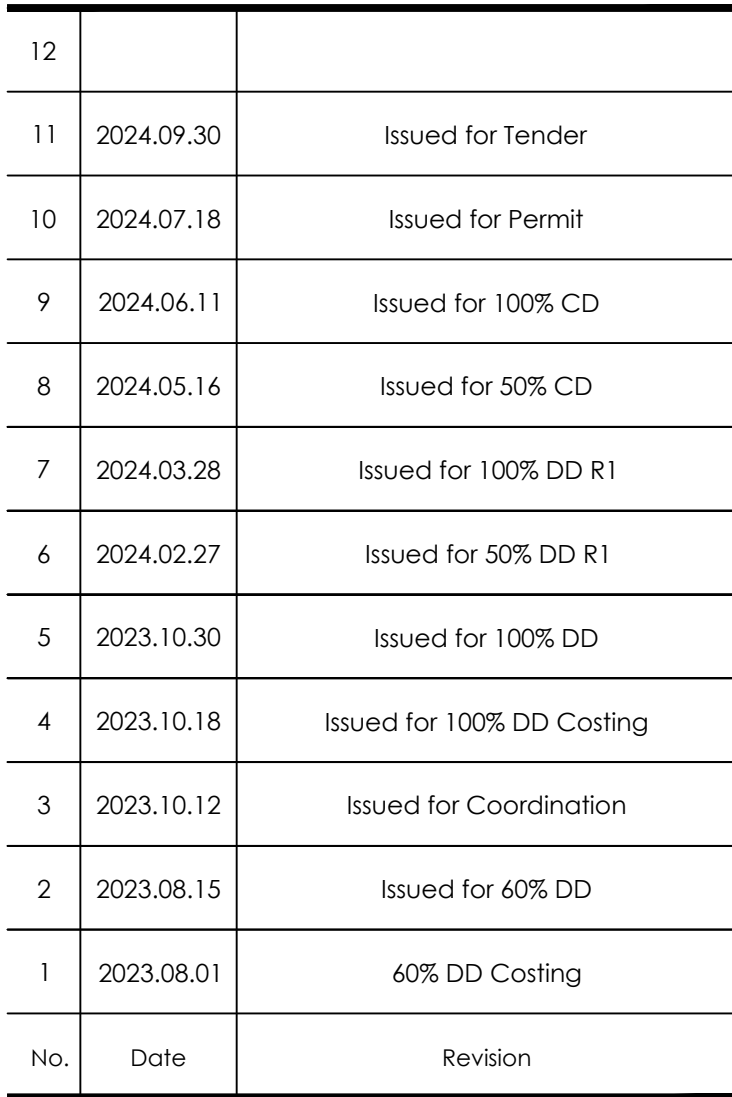
Ø1 -HSS 51x51x6.4

PLATE WELDED TO TOP FLANGE

PLATE WELDED TO TOP FLANGE

NOTES:

1. ALL FRAMING SHOWN ARE LOOKING DOWN.
2. REFER TO ARCHITECTURAL DRAWINGS FOR THE TOP OF FINISHED MEZZANINE FLOOR ELEVATION.
3. TOP OF STEEL BEAMS ARE 102mm BELOW TOP OF FINISHED MEZZANINE FLOOR ELEVATION EXCEPT AS NOTED THUS \_\_\_\_\_ ON PLAN.
4. THE UNFACTORED DESIGN LOAD FOR THE MEZZANINE FLOOR ARE:
  - 4.1. LIVE LOAD = 4.8 kPa
  - 4.2. SUPERIMPOSED DEAD LOAD (SD<sub>L</sub>) = 1.0 kPa
5. PROVIDE UPWARDS CAMBERS TO STRUCTURAL MEMBERS SHOWN THIS ON PLAN C =  $\frac{1}{8}$  ETC.
6. PROVIDE CONTINUOUS 10mm BENT PLATE EDGE ANGLES AROUND PERIMETER OF ALL FLOOR DECK AND OPENINGS.
7. DESIGN ALL BEAM CONNECTIONS FOR A FACTORED VERTICAL SHEAR FORCE SHOWN IN THE MEMBER SCHEDULE, WHERE NO FORCE IS INDICATED, DESIGN CONNECTIONS FOR VERTICAL SHEAR FORCE OF 75 kN IN ALL DIRECTIONS. A MINIMUM OF TWO BOLTS TO BE USED IN ALL BEAM CONNECTIONS. FOR ALL STEEL TO STEEL CONNECTIONS, PROVIDE SEALED SHOP DRAWINGS FOR CONSULTANT REVIEW.
8. ALL STRUCTURAL STEEL BEAMS GREATER THAN 7500mm IN LENGTH ARE TO HAVE AN UPWARD CAMBER OF 20mm, UNLESS NOTED OTHERWISE. BEAMS LESS THAN 7500mm IN LENGTH ARE NOT TO BE CAMBERED, UNLESS NOTED OTHERWISE.
9. ALL STRUCTURAL STEEL AND ITS CONNECTION HARDWARES EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164.
10. REFER TO TYPICAL DETAILS ON DRAWINGS S10 TO S12.
11. REFER GENERAL NOTES AND DESIGN NOTES ON DRAWING S010.



Scale:

1:100

Designer:

KL

Drawn by:

Checked by:

by:

Project Name

145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title

MEZZANINE FRAMING PLAN

Project no.

22.478

Drawing no.

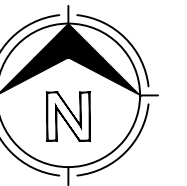
6202



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1	2024.09.30	Issued for Tender
No.	Date	Revision

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

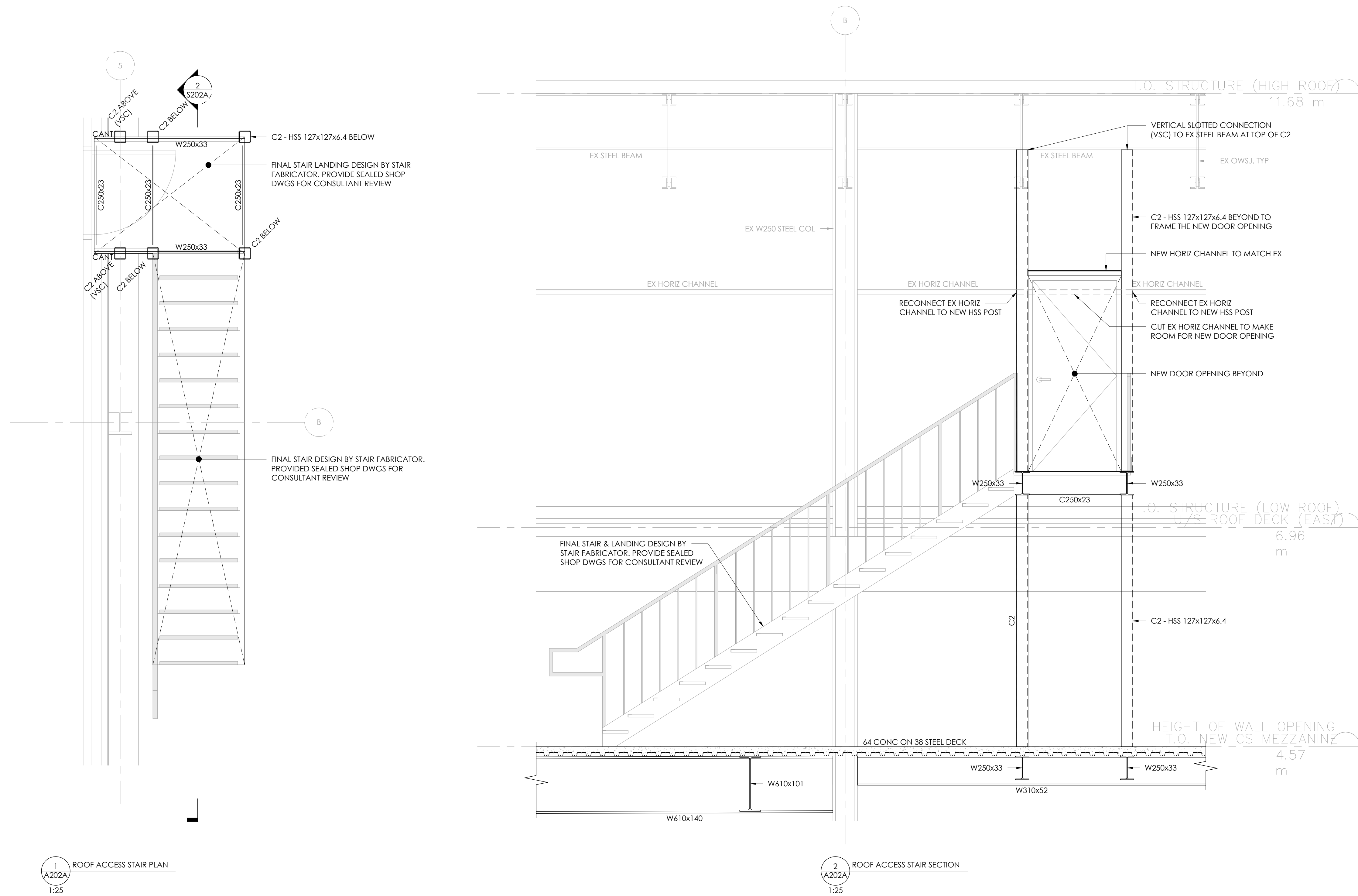
Project Name

145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title

## ROOF ACCESS STAIR PLAN & SECTION

Project no.	Drawing no.
22.478	S202A



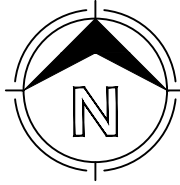


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1	2024.09.30	Issued for Tender
No.	Date	Revision

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

Project Name  
145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title  
ENLARGED FIRST FLOOR PLAN

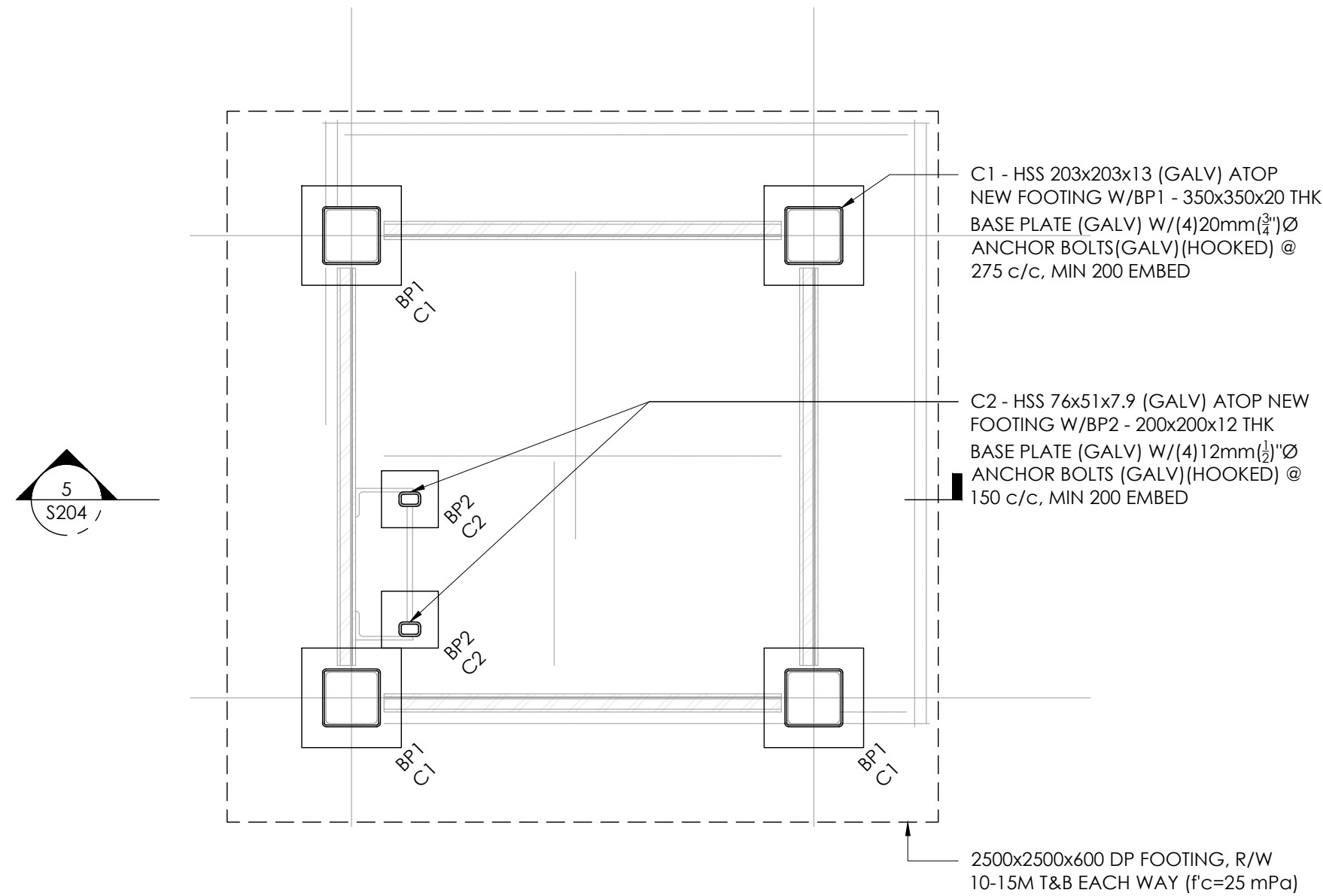
Project no.	Drawing no.
22.478	S203A

1  
S203A  
1:100

NOTES:

- WE HAVE ASSUMED THAT THE EXISTING STRUCTURE IS IN GOOD CONDITION. SITE VERIFY ALL EXISTING CONDITIONS SHOWN AND NOTIFY CONSULTANT IF FOUND DIFFERENT.
- THE UNFACTORED DESIGN LOAD FOR THE CEILING JOISTS ARE:
  - LIVE LOAD = 1.0 kPa FOR ALL SERVICE ACCESS ONLY. AT NO POINT SHALL BE THE CEILING OCCUPIED FOR USED FOR MATERIAL STORAGE.
  - DEAD LOAD = 0.5 kPa
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL ELEVATIONS AND EXACT DIMENSION OF CEILING.
- CONTRACTOR TO SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR CFS ELEMENTS WITHIN THE DRAWINGS.
- DESIGN ALL BEAM CONNECTIONS FOR A FACTORED VERTICAL SHEAR FORCE SHOWN IN THE MEMBER SCHEDULE. WHERE NO FORCE IS INDICATED, DESIGN CONNECTIONS FOR A VERTICAL SHEAR FORCE OF 75 kN. IN ADDITION, A MINIMUM OF TWO BOLTS ARE TO BE USED IN ALL BEAM CONNECTIONS. FOR ALL STEEL TO STEEL CONNECTIONS, PROVIDE SEALED SHOP DRAWINGS FOR CONSULTANT REVIEW.
- ALL STRUCTURAL STEEL BEAMS GREATER THAN 7500mm IN LENGTH ARE TO HAVE AN UPWARD CAMBER OF 20mm, UNLESS NOTED OTHERWISE. BEAMS LESS THAN 7500mm IN LENGTH ARE NOT TO BE CAMBERED, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL AND ITS CONNECTION HARDWARES EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164.
- GEOTECHNICAL ENGINEER TO CONFIRM ALLOWABLE BEARING PRESSURE OF 2100 psf (100 kPa). NOTIFY CONSULTANT IF FOUND DIFFERENT.
- CENTER FOOTINGS UNDER COLUMNS EXCEPT AS NOTED ON PLAN.
- REFER TO TYPICAL DETAILS ON DRAWINGS S10 TO S12.
- REFER GENERAL NOTES AND DESIGN NOTES ON DRAWING S010.
- MAKE GOOD THE EXISTING WORK.

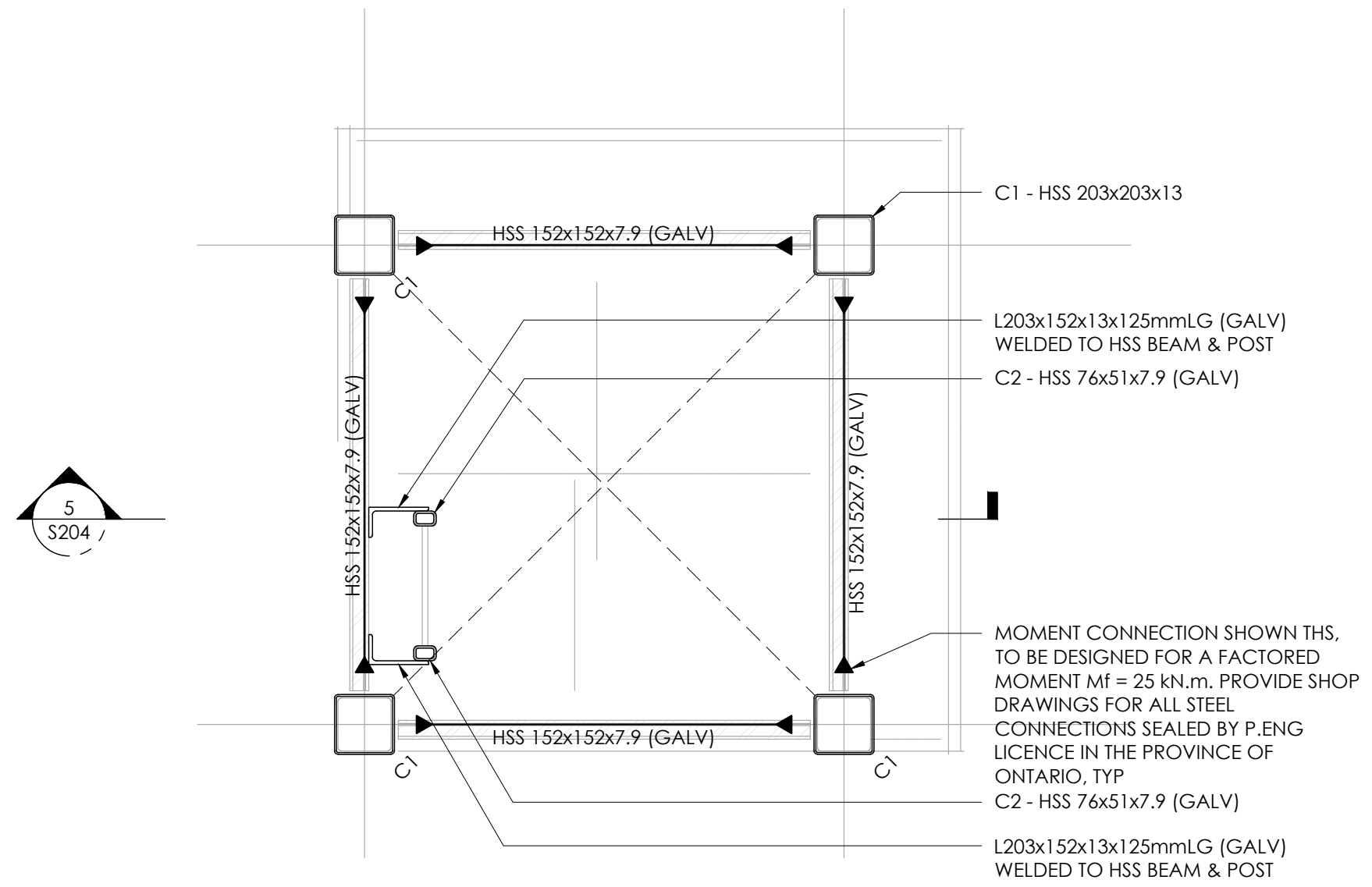
FRAMING SCHEDULE			
TAG	MEMBER SIZE	COMMENTS	DIAGRAM
J1	1000S200-68 @ 400 c/c	PROVIDE 362T150-43 BEARING STIFFENERS FASTENED W(3) #10-16 SMS. REFER TO PD10/S011 BRIDGING REQUIREMENTS	
D1	1/2"THK PLYWOOD	SECURE PLYWOOD TO JOISTS W/#10-16 SMS @ 400 c/c	
B1	(2)1000S200-68 + (2)362T150-54 BUILT UP CFS BOX BEAM	SCREW TOGETHER W/(2) #10-16 SMS @ 400 c/c, EACH FACE	
P1	(2)600S162-54 + (2)362T150-54 BUILT UP POST	SCREW TOGETHER W/#10-16 SMS @ 400 c/c, EACH FLANGE OF TRACK	
W1	600S162-43 @ 406 c/c STUD WALL	PROVIDE BRIDGING AS PER PD1/S010 (MIN 1 LINE OF BRIDGING AT MID-HEIGHT OF WALL)	



1  
S204  
TRAINING TOWER  
FOUNDATION PLAN  
1:20

NOTES:

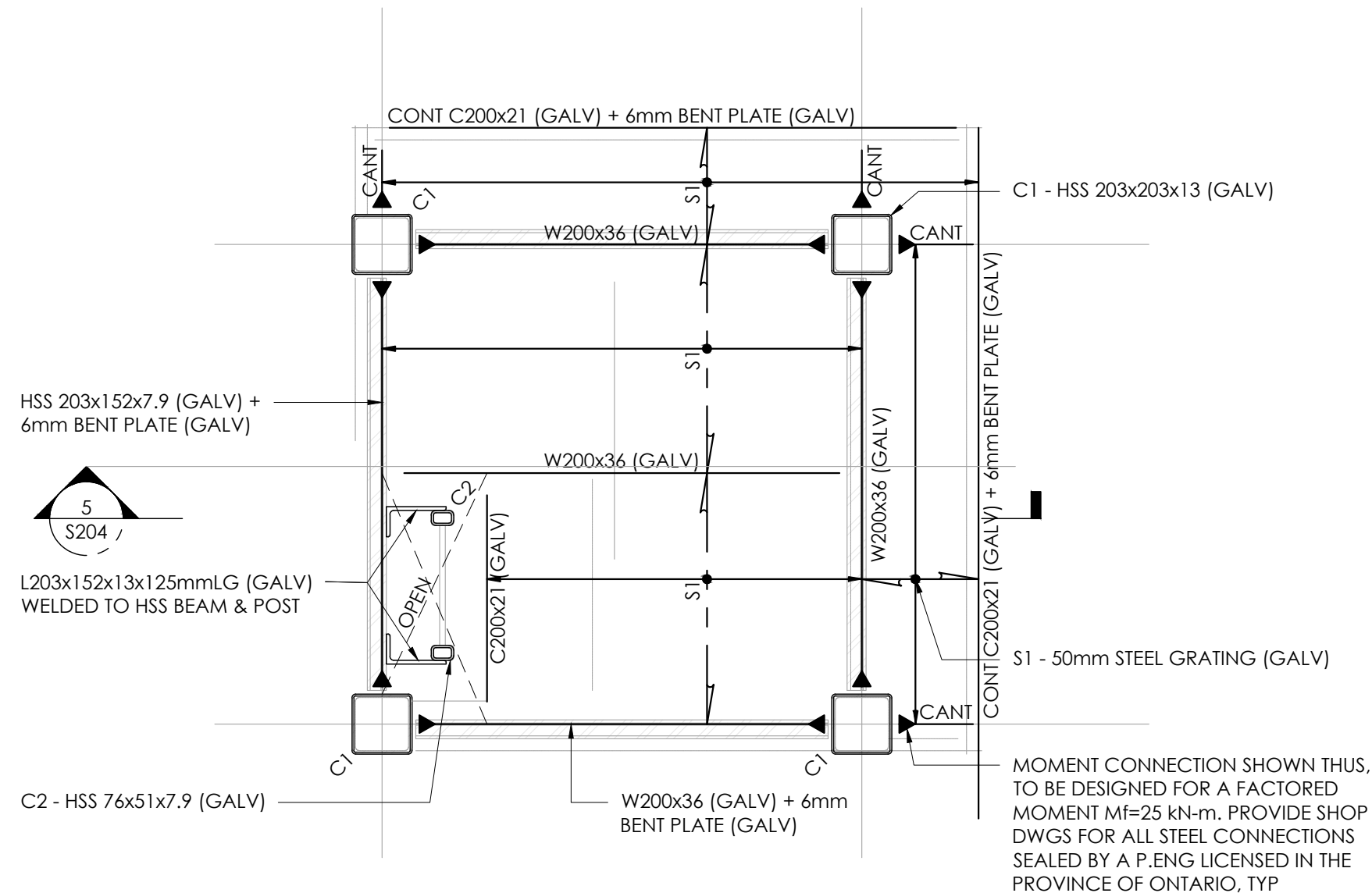
- REFER TO ARCHITECTURAL DRAWINGS FOR THE DIMENSIONS OF TRAINING TOWER & TOP OF STEEL BEAM ELEVATIONS.
- THE UNFACTORED DESIGN LOAD FOR THE TRAINING TOWER ARE:
  - LIVE LOAD = 2.4 kPa
  - DEAD LOAD = 0.5 kPa
- DESIGN ALL BEAM CONNECTIONS FOR A FACTORED VERTICAL SHEAR FORCE SHOWN IN THE MEMBER SCHEDULE. WHERE NO FORCE IS INDICATED, DESIGN CONNECTIONS FOR A VERTICAL SHEAR FORCE OF 75 kN. IN ADDITION, A MINIMUM OF TWO BOLTS ARE TO BE USED IN ALL BEAM CONNECTIONS. FOR ALL STEEL TO STEEL CONNECTIONS, PROVIDE SEALED SHOP DRAWINGS FOR CONSULTANT REVIEW.
- ALL STRUCTURAL STEEL AND ITS CONNECTION HARDWARES EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164.
- GEOTECHNICAL ENGINEER TO CONFIRM ALLOWABLE BEARING PRESSURE OF 2100 psf (100 kPa). NOTIFY CONSULTANT IF FOUND DIFFERENT.
- CENTER FOOTINGS UNDER COLUMNS EXCEPT AS NOTED ON PLAN.
- REFER TO TYPICAL DETAILS ON DRAWINGS S10 TO S12.
- REFER GENERAL NOTES AND DESIGN NOTES ON DRAWING S010.



2  
S204  
TRAINING TOWER  
FRAMING PLAN @ 3045mm AFF  
1:20

NOTES:

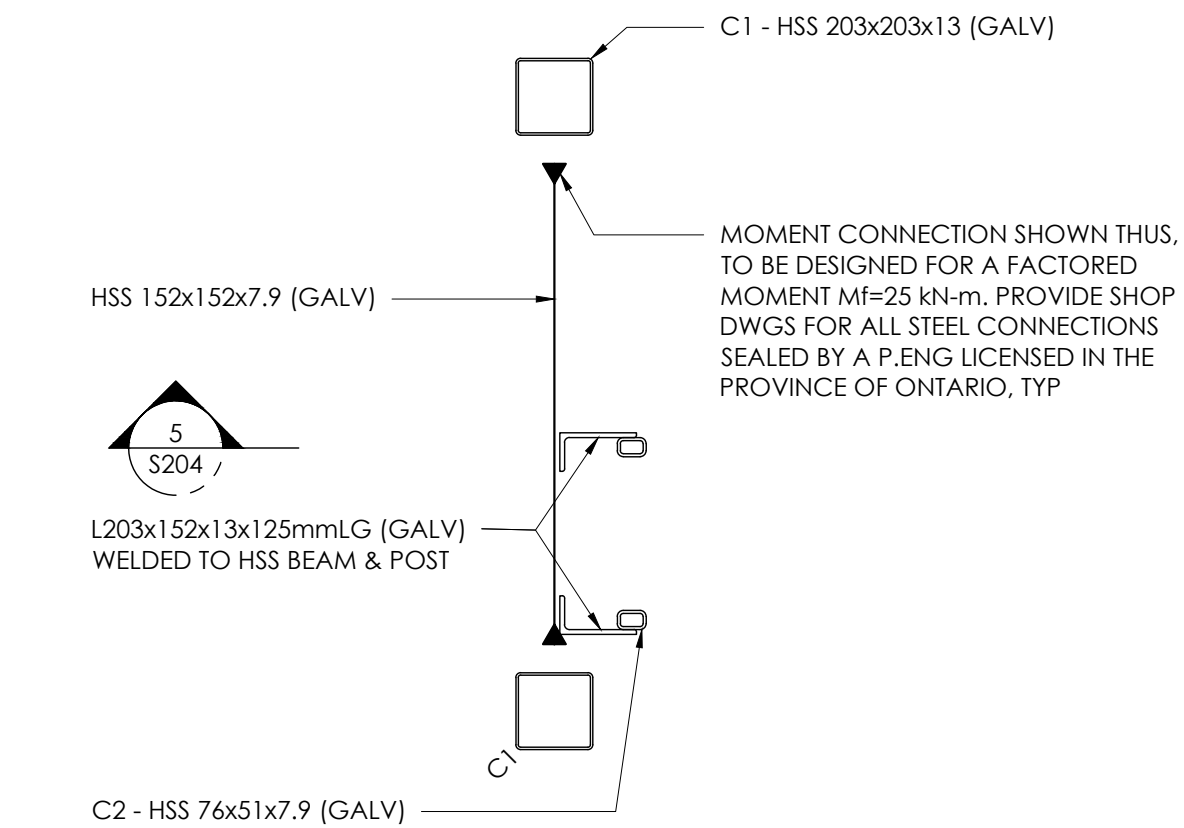
- REFER TO PLAN NOTES IN 1/S204.



3  
S204  
TRAINING TOWER  
FRAMING PLAN @ 6095mm AFF  
1:20

NOTES:

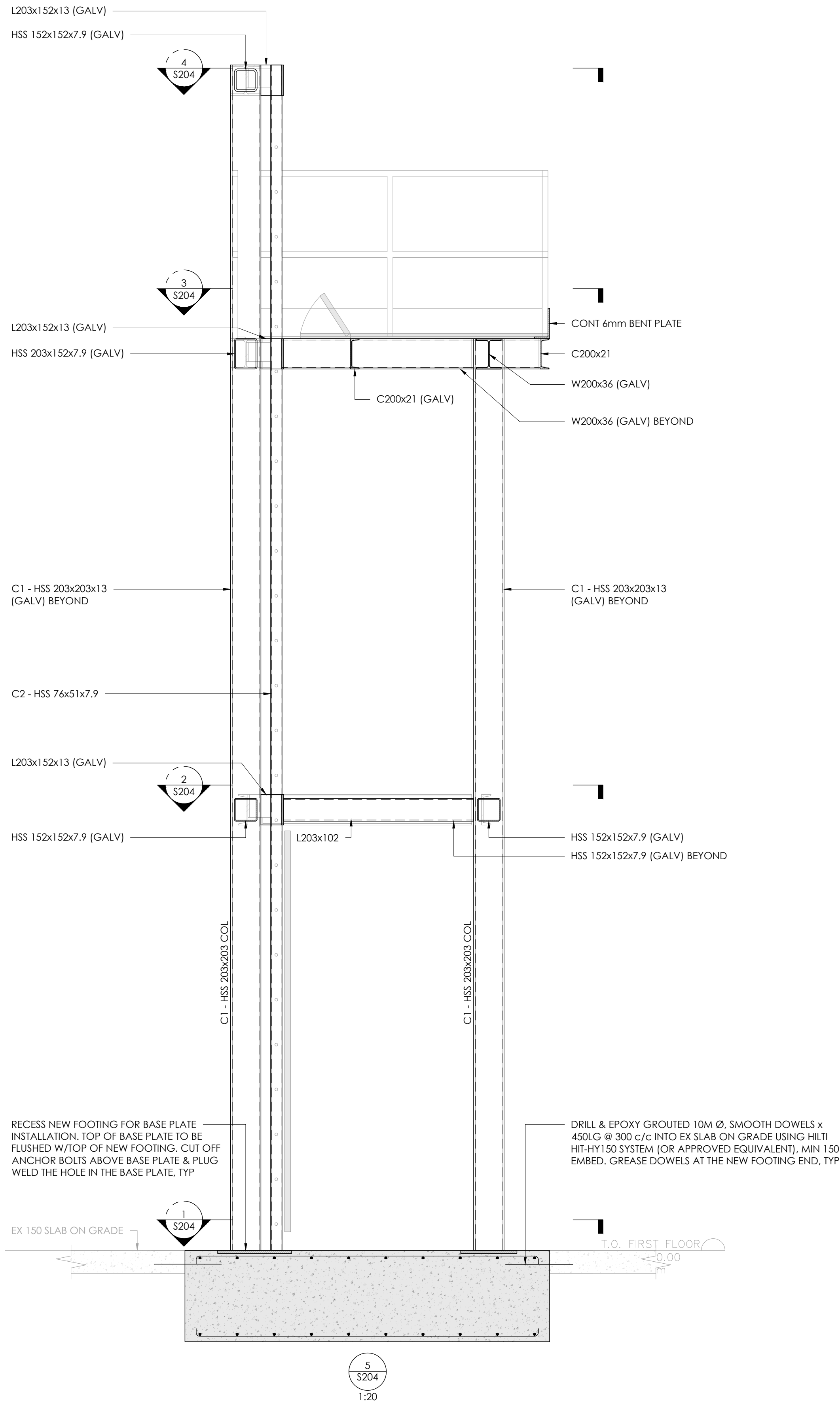
- REFER TO PLAN NOTES IN 1/S204.



4  
S204  
TRAINING TOWER  
FRAMING PLAN @ 7925mm AFF  
1:20

NOTES:

- REFER TO PLAN NOTES IN 1/S204.

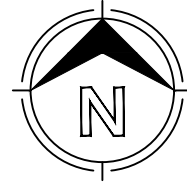


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Structural Consultant:



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No.	Date	Revision

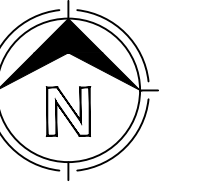
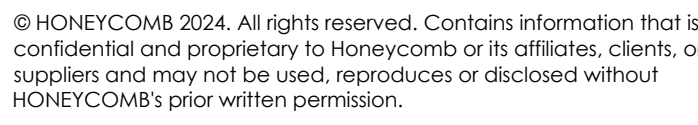
Scale:	AS NOTED	Designer:	KL
Drawn by:	SS	Checked by:	WP

Project Name  
145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title  
ENLARGED FIRST FLOOR PLAN

Project no.	Drawing no.
22.478	S204





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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

Scale: 1:250	Designer: KL
Drawn by: SS	Checked by: WP

Project Name

145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title

### ROOF PLAN

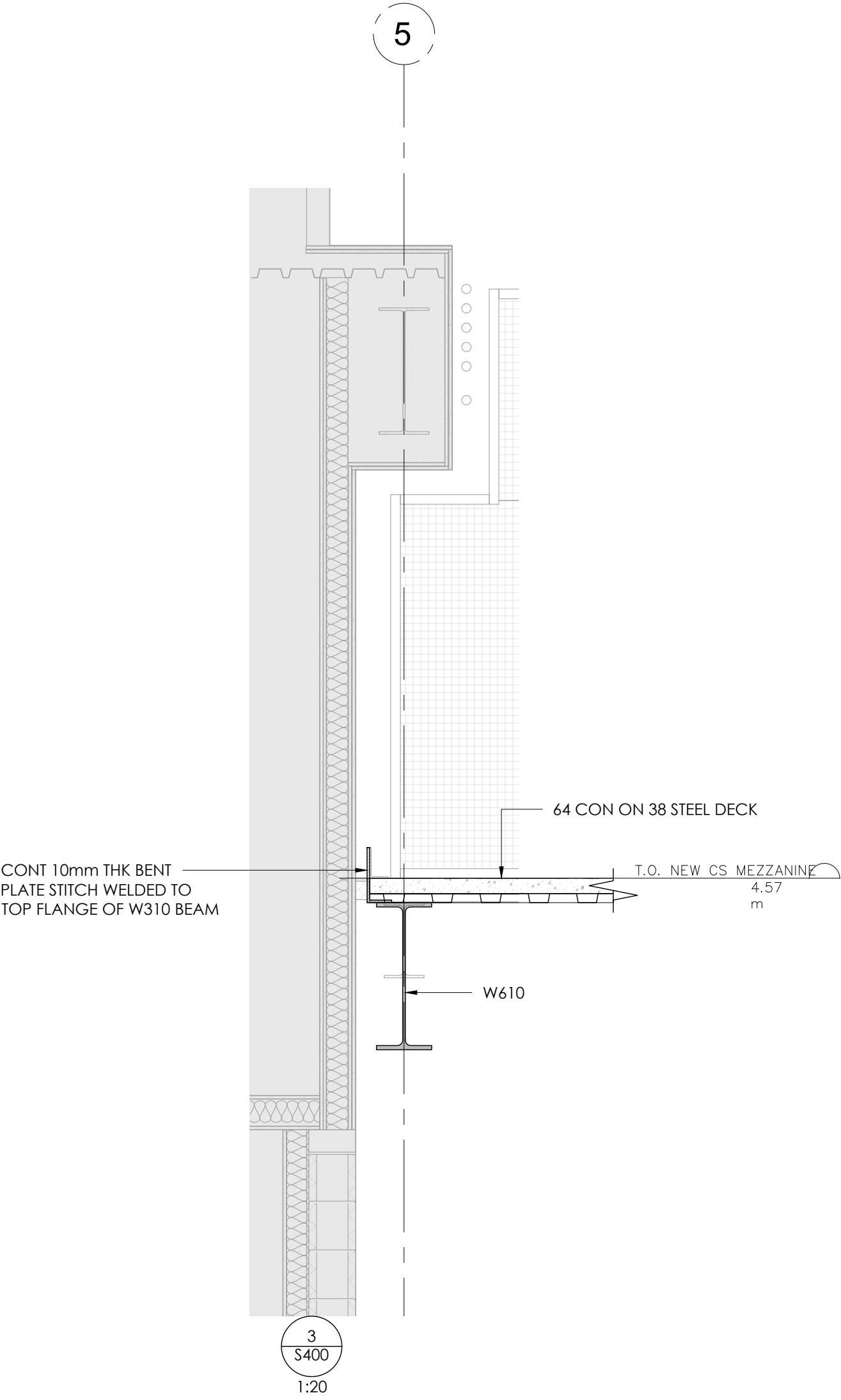
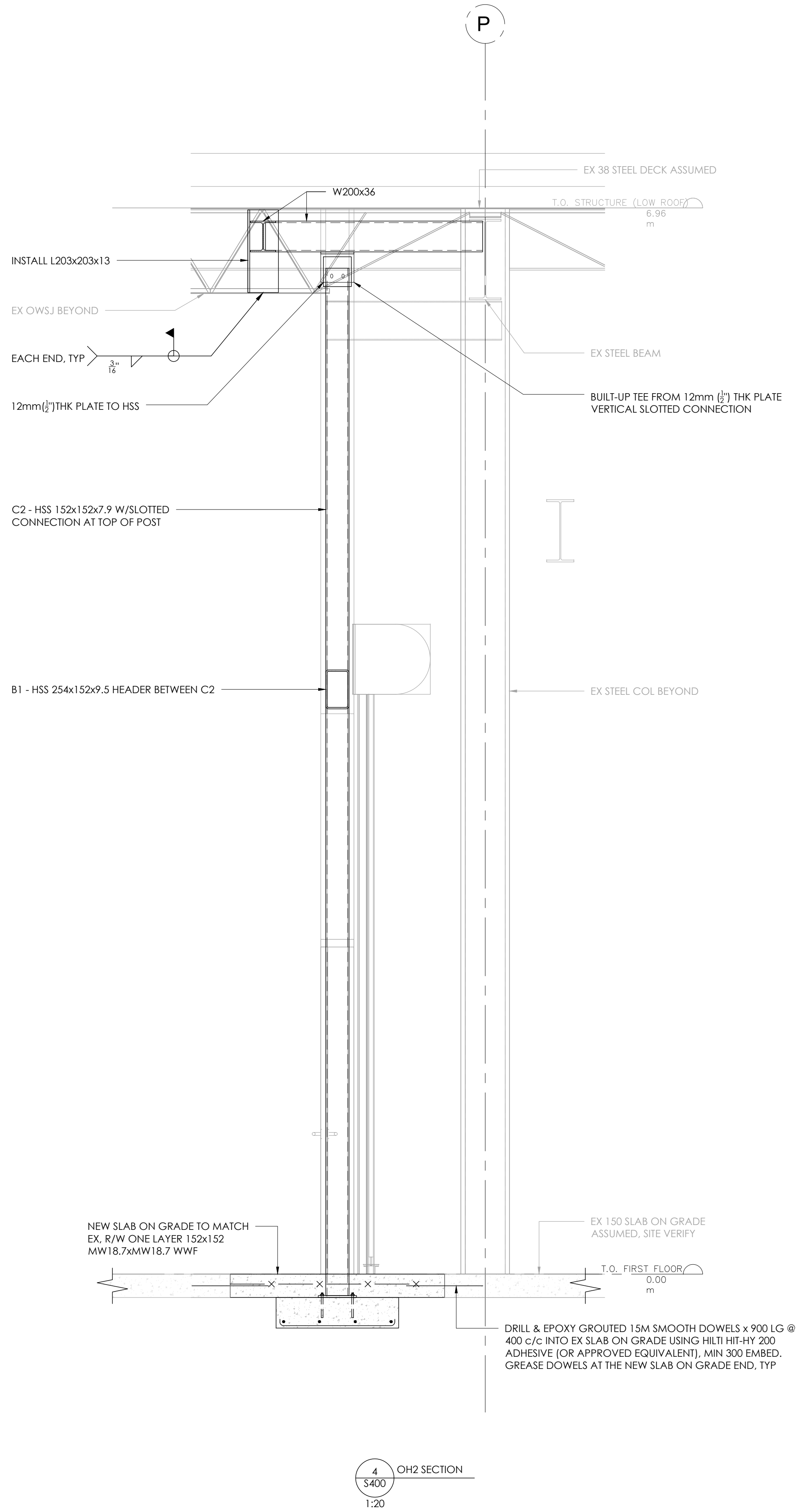
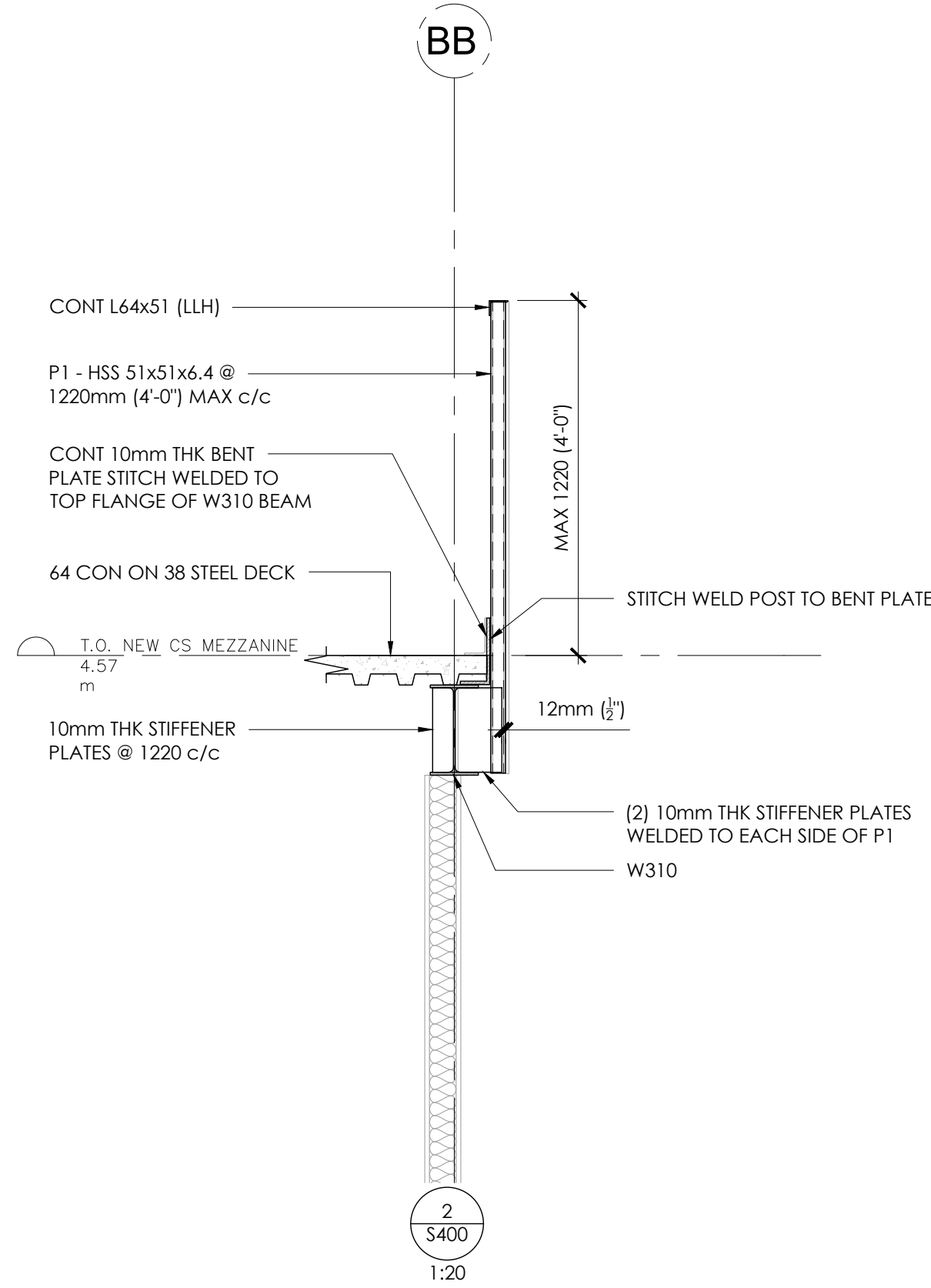
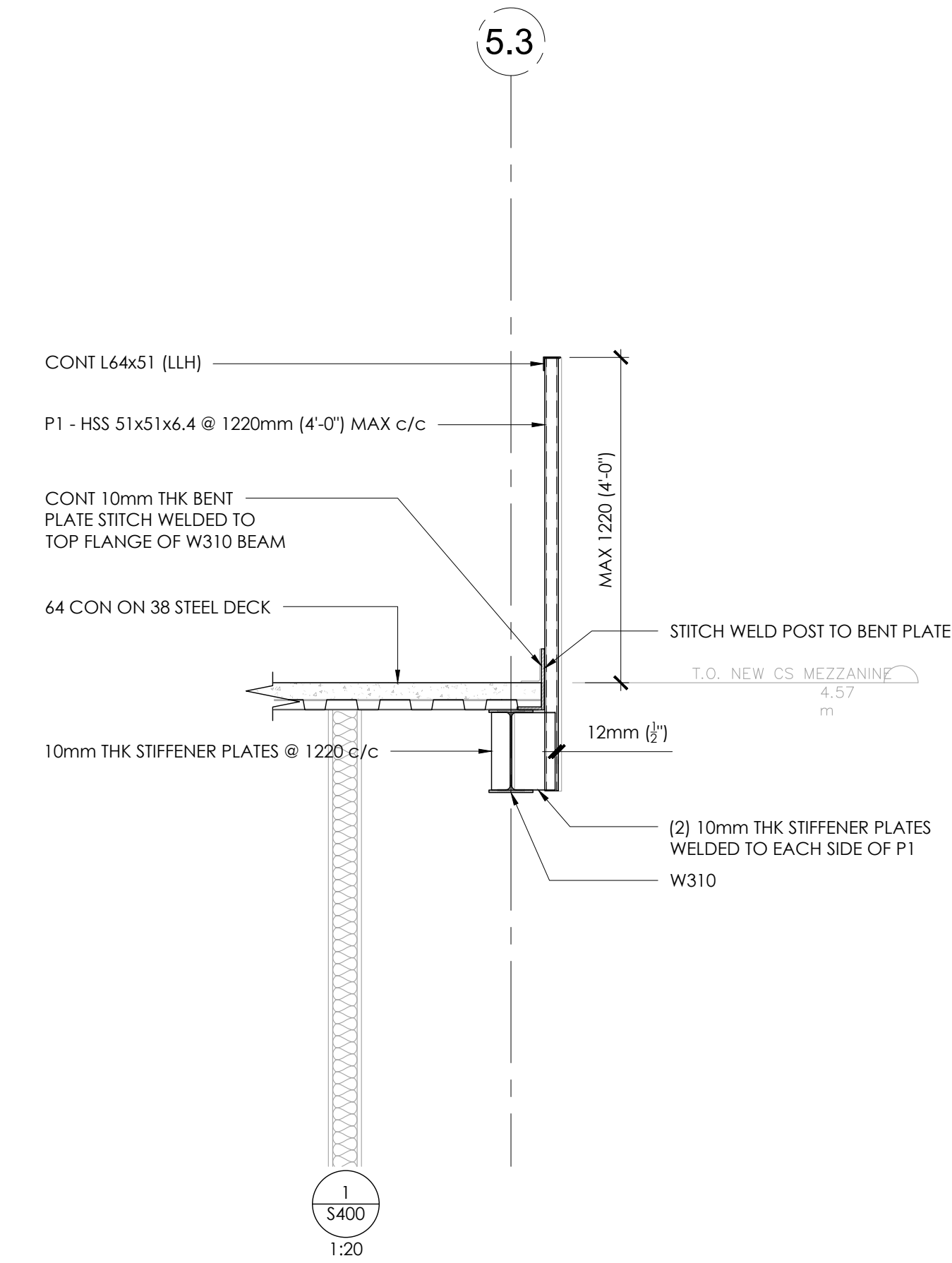
Project no.	Drawing no.
22.478	S205

Seal:

Structural Consultant:



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12		
11		
10		
9	2024.09.30	Issued for Tender
8	2024.07.18	Issued for Permit
7	2024.06.11	Issued for 100% CD
6	2024.05.16	Issued for 50% CD
5	2024.03.28	Issued for 100% DD R1
4	2024.02.27	Issued for 50% DD R1
3	2023.10.30	Issued for 100% DD
2	2023.10.18	Issued for 100% DD Costing
1	2023.10.12	Issued for Coordination
No.	Date	Revision

Scale:	AS NOTED	Designer:	KL
Drawn by:	SS	Checked by:	WP

Project Name

145 Harry Walker Pkwy  
Newmarket, Ontario

Drawing Title

SECTIONS

Project no.

22.478

Drawing no.

S400



SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING TO BE REMOVED FOR RELOCATION
	EXISTING RELOCATED IN NEW WORK
	NEW WORK
	CONNECT TO EXISTING
	AIRFLOW / PIPE FLOW DIRECTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	PRESSURE REDUCING VALVE
	ROOM THERMOSTAT
	ROOM HUMIDISTAT
	PUMP
	CONTROL VALVE - TWO WAY
	CONTROL VALVE - THREE WAY
	ISOLATION VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER - COVER DRAIN WITH VALVED FLUSHING DRAIN
	PIPE BRANCH OFF TOP
	PIPE BRANCH OFF BOTTOM
	RELIEF VALVE
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	CAP
	SOLENOID VALVE
	FUSIBLE LINK VALVE
	ELECTRIC HEAT TRACING

SYMBOL	DESCRIPTION
	SANITARY DRAINAGE - ABOVE GROUND
	SANITARY DRAINAGE - UNDERGROUND
	SANITARY DRAINAGE (ACID RESISTANT) - ABOVE GROUND
	SANITARY DRAINAGE (ACID RESISTANT) - UNDERGROUND
	STORM DRAINAGE - ABOVE GROUND
	STORM DRAINAGE - UNDERGROUND
	PUMPED DISCHARGE
	DOMESTIC COLD WATER SUPPLY
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC HOT WATER RETURN
	VENT
	GAS
	RELEASE DRAIN/PRESSURE
	AUTO/float/level DRAIN
	COMPRESSED AIR
	RUNNING TRAP
	P-TRAP
	EMERGENCY SHOWER
	EYE WASH
	CLEANOUT IN FLOOR/CEILING DRAINAGE
	CLEANOUT IN CEILING
	HOSE BIBB
	NON-PRESSURE HOSE BIBB
	SINGLE GAS OUTLET
	DOUBLE GAS OUTLET
	COMPRESSED AIR OUTLET
	ROOF DRAIN
	CONTROL FLOW ROOF DRAIN
	VENT THROUGH ROOF
	RAIN WATER LEADER
	TRAP SEAL PRIMER
	SCUPPER DRAIN
	MANHOLE
	CATCH BASIN
	TRENCH GRATE & FRAME
	AREA DRAIN
	PANEL FLOOR DRAIN
	FLOOR DRAIN
	CURB DRAIN
	FLOOR DRAIN - FLOOR DRAIN RIM
	WATER METER ASSEMBLY
	GAS METER
	BACK WATER VALVE
	BACKFLOW PREVENTER
	150°C DENOTES FAILURE TYPE PER SPECIFICATION

SYMBOL	DESCRIPTION
	FUSIBLE LINK FIRE DAMPER (DOUBLE LINE)
	FUSIBLE LINK FIRE DAMPER (SINGLE LINE)
	SMOKE DAMPER (DOUBLE LINE)
	SMOKE DAMPER (SINGLE LINE)
	COMBINATION SMOKE/FIRE DAMPER (DOUBLE LINE)
	COMBINATION SMOKE/FIRE DAMPER (SINGLE LINE)
	BACK DRAFT DAMPER (DOUBLE LINE)
	BACK DRAFT DAMPER (SINGLE LINE)
	MOTORIZED DAMPER (DOUBLE LINE)
	MOTORIZED DAMPER (SINGLE LINE)
	BALANCING DAMPER (SINGLE LINE)
	MOTORIZED DAMPER (DOUBLE LINE)
	ISOLATION VALVE
	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN
	ROUND DUCTWORK - DIMENSION AS SHOWN
	DUCTWORK (SINGLE LINE) - DIMENSION AS SHOWN
	RECTANGULAR SUPPLY/OUTDOOR AIR DUCT UP
	RECTANGULAR EXHAUST/RETURN AIR DUCT UP
	CIRCULAR SUPPLY/OUTDOOR AIR DUCT UP
	CIRCULAR EXHAUST/RETURN AIR DUCT UP
	RECTANGULAR SUPPLY/OUTDOOR AIR DUCT DOWN
	RECTANGULAR EXHAUST/RETURN AIR DUCT DOWN
	CIRCULAR SUPPLY/OUTDOOR AIR DUCT DOWN
	CIRCULAR EXHAUST/RETURN AIR DUCT DOWN
	MITERED ELBOW WITH TURNING VANES
	DUCT RISER (DOUBLE LINE)
	SUPPLY GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE
	EXHAUST/RETURN GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE
	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS AS SHOWN ON SCHEDULE
	LINEAR SLOT DIFFUSER - DIMENSIONS AS SHOWN ON SCHEDULE
	CEILING EXHAUST/RETURN GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE
	SUPPLY AIR ROUND DIFFUSER
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (DOUBLE LINE)
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (SINGLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH (DOUBLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION
	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	DUCT BLENCER
	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DUCT MOUNTED HEATING COIL (DOUBLE LINE)
	DUCT MOUNTED HEATING COIL (SINGLE LINE)
	SUPPLY AIR TERMINAL BOX ON REHEAT COIL AND ATTENUATOR
	SUPPLY AIR TERMINAL BOX ON ATTENUATOR
	RETURN/EXHAUST AIR TERMINAL BOX ATTENUATOR
	FIRE RATED DUCTWORK (DOUBLE LINE)
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	RECTANGULAR AIR DUCT BREAK
	ROUND DUCT BREAK
	SINGLE LINE DUCT BREAK
	TRANSFER AIR DUCT
	SUPPLY AIR LIGHT TROFFER
	DOWN (UP) DOOR UNDERDRIFT

SYMBOL	DESCRIPTION
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	HEATING COIL RETURN
	HEATING COIL SUPPLY
	HIGH TEMPERATURE HEATING WATER RETURN
	HIGH TEMPERATURE HEATING WATER SUPPLY
	HIGH TEMPERATURE HEATING COIL RETURN
	HIGH TEMPERATURE HEATING COIL SUPPLY
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED COIL RETURN
	CHILLED COIL SUPPLY
	PUMPED CONDENSATE
	CONDENSATE TRAP
	REFRIGERANT LIQUID
	LOW PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	STEAM VENT
	STEAM SUPPLY
	STEAM RETURN
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	FUEL OIL OVERFLOW
	UNION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	EXPANSION COMPENSATOR
	EXPANSION LOOP
	PIPE ANCHOR
	PIPE GUIDE
	PIPE HANGER
	FLLOAT & THERMOSTATIC TRAP
	AIR VENT TRAP
	RADIATOR TRAP
	RADIATOR PANEL TYPE - HEAT OUTPUT
	CABINET UNIT HEATER
	UNIT HEATER

SYMBOL	DESCRIPTION
	SPRINKLER LINE
	FIRE ALARM
	ALARM BELL
	WATER FLOW ALARM
	SUPERVISED VALVE
	PRESSURE SWITCH
	TEST CONNECTION
	SPRINKLER FIRE DEPARTMENT CONNECTION
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FIRE SUPPRESSION CLEAN AGENT HEAD
	SIGNAL SPRINKLER HEAD
	FOOT INDICATOR VALVE
	SPRINKLER VALVE CABINET
	FIRE EXTINGUISHER CABINET
	FIRE HOSE CABINET
	FIRE EXTINGUISHER ON WALL BRACKET
	FIRE HYDRANT ON SHUT-OFF VALVE
	PRESSURE SWITCH
	WATER FLOW ALARM
	ALARM PRESSURE PUMP
	ALARM CHECK VALVE
	TEST & DRAIN VALVE
	WATER FLOW ALARM
	ALARM CHECK VALVE
	TEST & DRAIN VALVE
	AIR COMPRESSOR

SYMBOL	DESCRIPTION
	SUPPLY FAN
	RETURN FAN
	EXHAUST FAN
	HEATING COIL
	COOLING COIL
	PRE-HEAT COIL
	FILTER
	SUPPLY AIR
	EXHAUST AIR
	OUTDOOR AIR
	RETURN AIR
	MOTORIZED DAMPER
	MOTOR STARTER PANEL
	MOTOR CONTROL CENTER
	HANDOFF
	NORMALLY OPEN POSITION
	NORMALLY CLOSED POSITION
	VARIABLE FREQUENCY DRIVE
	NORMALLY CLOSED CONTACT
	NORMALLY OPEN CONTACT
	FLOW SWITCH
	LEVEL SWITCH
	PRESSURE SWITCH
	ACTUATOR NORMALLY CLOSED POSITION (DE-ENERGIZED STATE)
	ACTUATOR NORMALLY OPEN POSITION (DE-ENERGIZED STATE)
	ACTUATOR FAIL OPEN POSITION
	ACTUATOR FAIL CLOSED POSITION
	ACTUATOR FAIL LAST POSITION
	TWO-POSITION ACTUATOR
	MODULATING ACTUATOR
	PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	VELOCITY SENSOR
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	OCCUPANCY SENSOR
	CARBON MONOXIDE SENSOR
	NOX SENSOR
	OXYGEN SENSOR
	GAS DETECTION SYSTEM CONTROL PANEL
	VISUAL INDICATOR ALARM
	AUDIBLE INDICATOR ALARM
	BUILDING AUTOMATION SYSTEM
	ANALOG INPUT
	ANALOG OUTPUT
	DIGITAL INPUT
	DIGITAL OUTPUT
	SBS ADJUSTABLE SET POINT
	SBS VARIABLE
	HAND-OFF AUTO
	CONTROL WIRING

## SHEET LIST TABLE

Sheet Number	Sheet Title
M100	LEGEND AND DRAWING LIST
M200	EXISTING PLUMBING LAYOUT
M201	PLUMBING NEW LAYOUT
M202	PLUMBING NEW LAYOUT (CONT.)
M203	COMPRESSED AIR PIPING LAYOUT
M300	HVAC DEMOLITION LAYOUT-GROUND FLOOR
M301	HVAC NEW LAYOUT
M302	HVAC NEW LAYOUT (CONT.)
M303	HVAC NEW LAYOUT ROOF PLAN
M304	HVAC NEW LAYOUT ROOF PLAN CONT.
M400	FIRE PROTECTION LAYOUT EXISTING-GROUND LEVEL
M401	FIRE PROTECTION LAYOUT NEW - MEZZANINE LEVEL
M500	CONTROL SEQUENCE
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M503	MECHANICAL DETAILS
M504	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULE

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
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3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH D

### REVISIONS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.	PROJECT NORTH 
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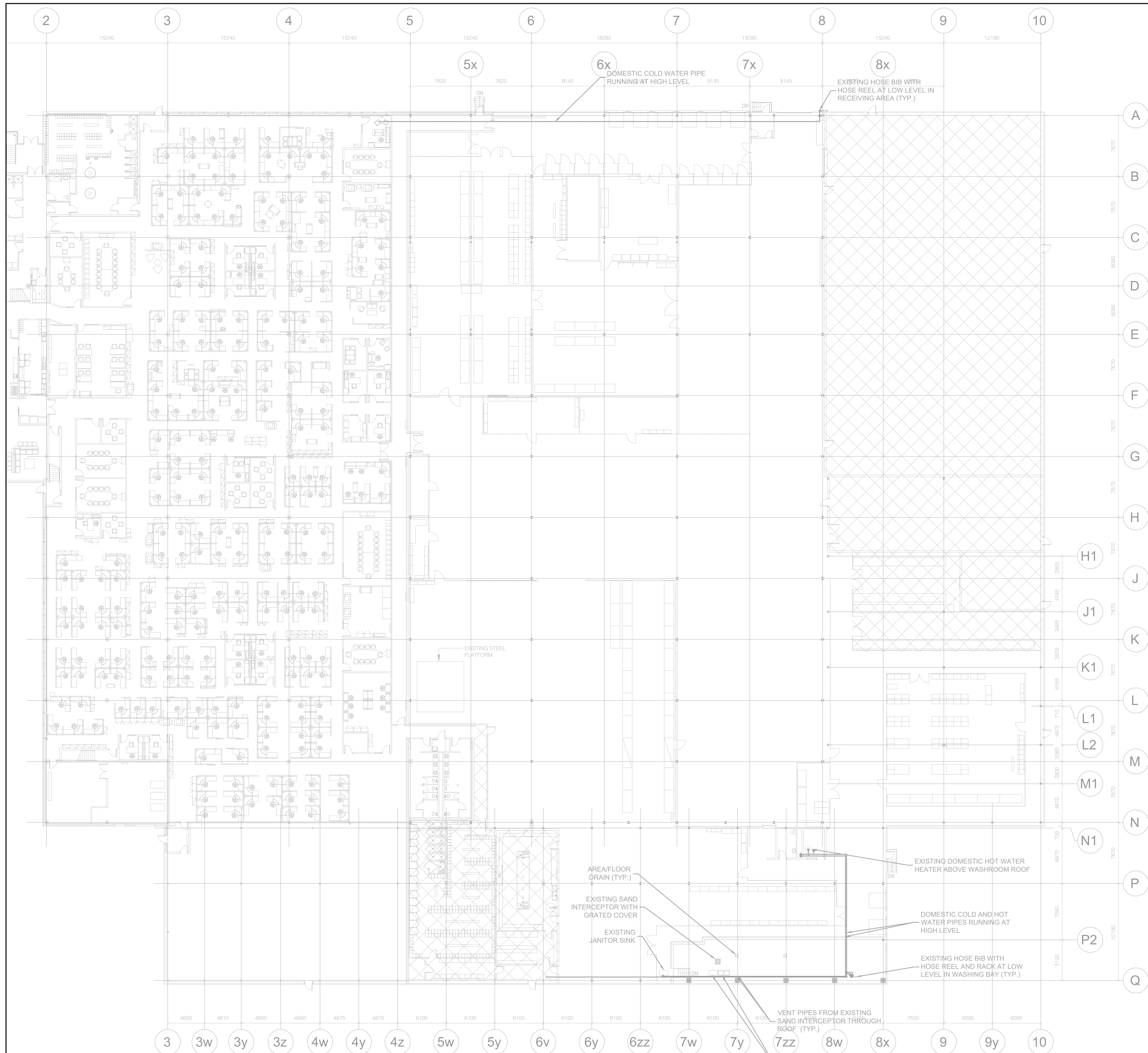
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM	

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

PROJECT	HWP WAREHOUSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3
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TITLE	LEGEND AND DRAWING LIST
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CHECKED	ZH	PROJECT No.	CM-22-149
SCALE	AS SHOWN	DRAWING No.	M100



1 PLUMBING L - EXISTING  
SCALE: 1:250

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
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1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH'D

REVISIONS		
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PROJECT NORTH		



**QUASAR**  
CONSULTING GROUP

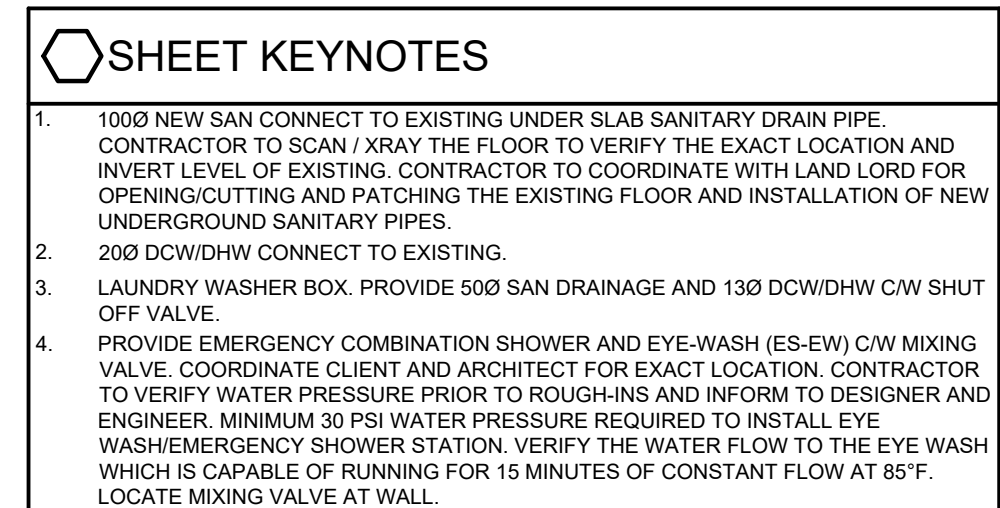
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE		
EXISTING PLUMBING LAYOUT		
CHECKED	ZH	PROJECT No. <b>CM-22-149</b>
SCALE	AS SHOWN	DRAWING No. <b>M200</b>





No.	DATE	DESCRIPTION	CH'D
REVISIONS			

<p>THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.</p>	<p>PROJECT NORTH</p> 
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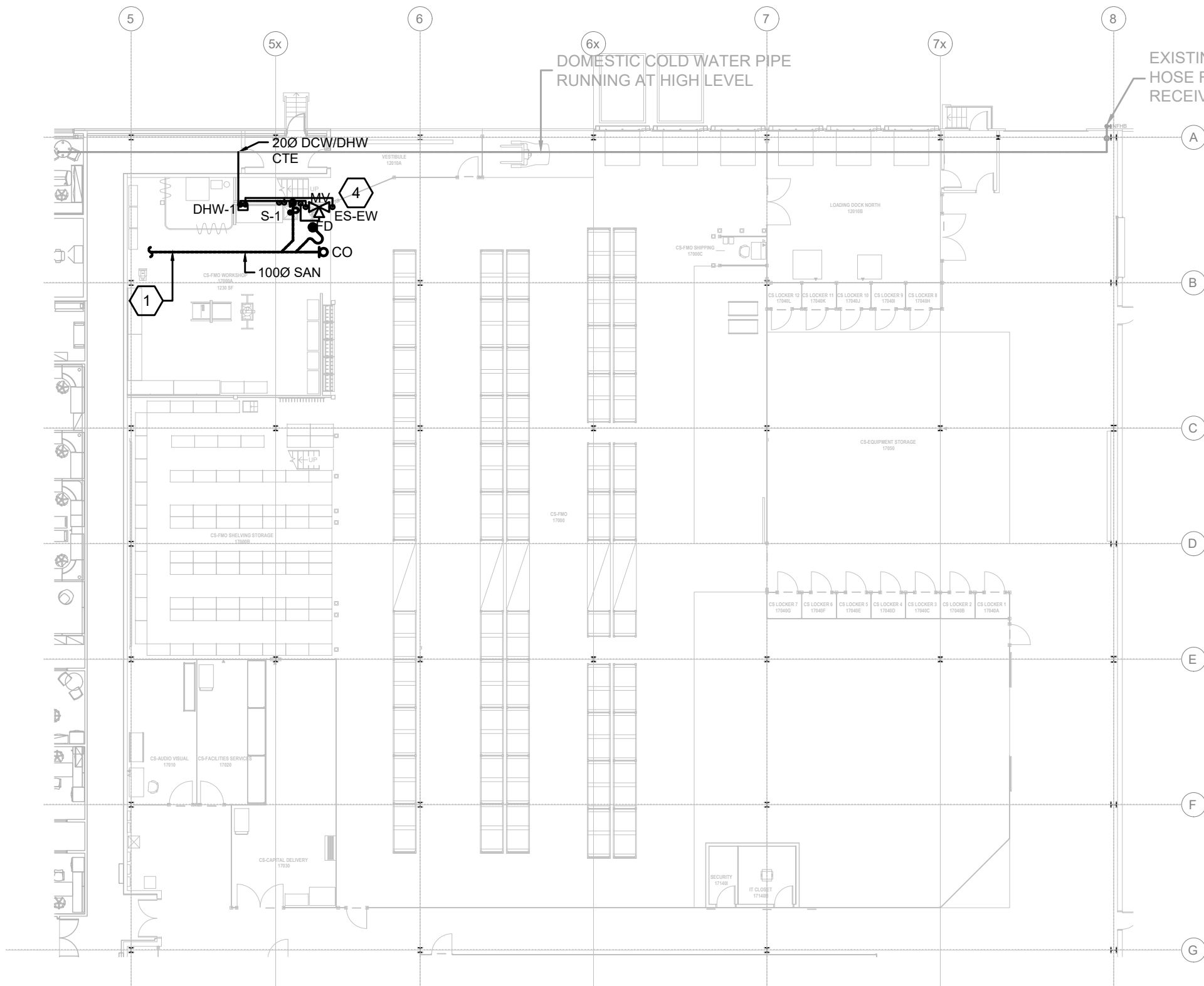
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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE	PLUMBING NEW LAYOUT
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CHECKED	PROJECT No.
ZH	CM-22-149
SCALE	DRAWING No.
AS SHOWN	M201



#### GENERAL SHEET NOTES

- ALL SANITARY DRAINAGE BELOW GRADE SHALL BE MINIMUM 1000 UNLESS INDICATED OTHERWISE.
- ALL DCW AND DHW PIPES SHALL BE MINIMUM Ø1/2" UNLESS NOTED OTHERWISE.
- ALL FLOOR / HUB DRAINS SHALL BE COMPLETE WITH TRAPS AND TRAP SEAL PRIMERS. ALL FLOOR DRAINS TO BE INSTALLED AS PER O.B.C 7.1.4.2. ALL TRAP SEAL PRIMERS TO BE INSTALLED IN FLOOR AND HUB DRAINS AS PER O.B.C 7.4.5.5.
- PROVIDE COMPLETE VENTING AND PRIMER SYSTEM AS PER O.B.C. REQUIREMENT.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND SLOPE OF EXISTING BELOW FLOOR SLAB SERVICES PRIOR TO COMMENCING ANY WORK.
- CONTRACTOR TO ALLOW FOR X-RAY AND SCAN THE FLOOR PRIOR TO OPENING/CUTTING TO VERIFY THE EXACT LOCATION OF EXISTING UNDERGROUND PIPE. UNDER SLAB SAN SHOWN ON DRAWING IS FOR INFORMATION ONLY AND CONTRACTOR SHOULD VERIFY THE EXACT LOCATION AND INVERT LEVEL. CONTRACTOR TO COORDINATE WITH LAND LORD FOR OPENING/CUTTING THE EXISTING FLOOR AND INSTALLATION OF NEW UNDERGROUND SANITARY PIPES.
- VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.
- ALL PLUMBING WORK TO COMPLY WITH O.B.C PART 7 AND OTHER PARTS AS APPLICABLE.

#### SHEET KEYNOTES

- 1000 NEW SAN CONNECT TO EXISTING UNDER SLAB SANITARY DRAIN PIPE. CONTRACTOR TO SCAN / XRAY THE FLOOR TO VERIFY THE EXACT LOCATION AND INVERT LEVEL OF EXISTING. CONTRACTOR TO COORDINATE WITH LAND LORD FOR OPENING/CUTTING AND PATCHING THE EXISTING FLOOR AND INSTALLATION OF NEW UNDERGROUND SANITARY PIPES.
- 200 DCW CONNECT TO EXISTING.
- LAUNDRY WASHER BOX. PROVIDE 500 SAN DRAINAGE AND 130 DCW/DHW C/W SHUT OFF VALVE.
- PROVIDE EMERGENCY COMBINATION SHOWER AND EYE-WASH (ES-EW) C/W MIXING VALVE. COORDINATE CLIENT AND ARCHITECT FOR EXACT LOCATION. CONTRACTOR TO VERIFY WATER PRESSURE PRIOR TO ROUGH-INS AND INFORM TO DESIGNER AND ENGINEER. MINIMUM 30 PSI WATER PRESSURE REQUIRED TO INSTALL EYE WASH/EMERGENCY SHOWER STATION. VERIFY THE WATER FLOW TO THE EYE WASH WHICH IS CAPABLE OF RUNNING FOR 15 MINUTES OF CONSTANT FLOW AT 85°F. LOCATE MIXING VALVE AT WALL.

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#### REVISIONS

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PROJECT NORTH



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CM-22-149@QUASARCG.COM

PROJECT

**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE

PLUMBING NEW LAYOUT (CONT.)

CHECKED

ZH

PROJECT No.

CM-22-149

SCALE

AS SHOWN

DRAWING No.

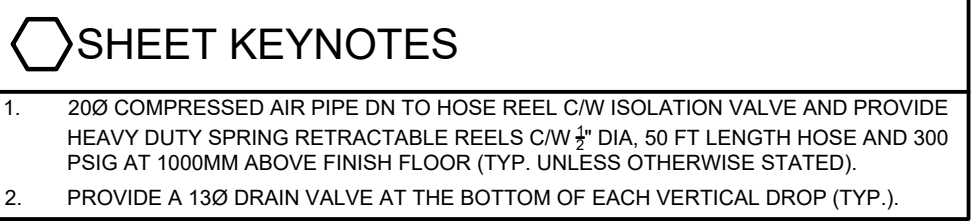
**M202**

1

**PLUMBING NEW LAYOUT-CORPORATE**


SCALE: 1:250





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9	2024-08-29	ISSUED FOR TENDER	
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## REVISIONS

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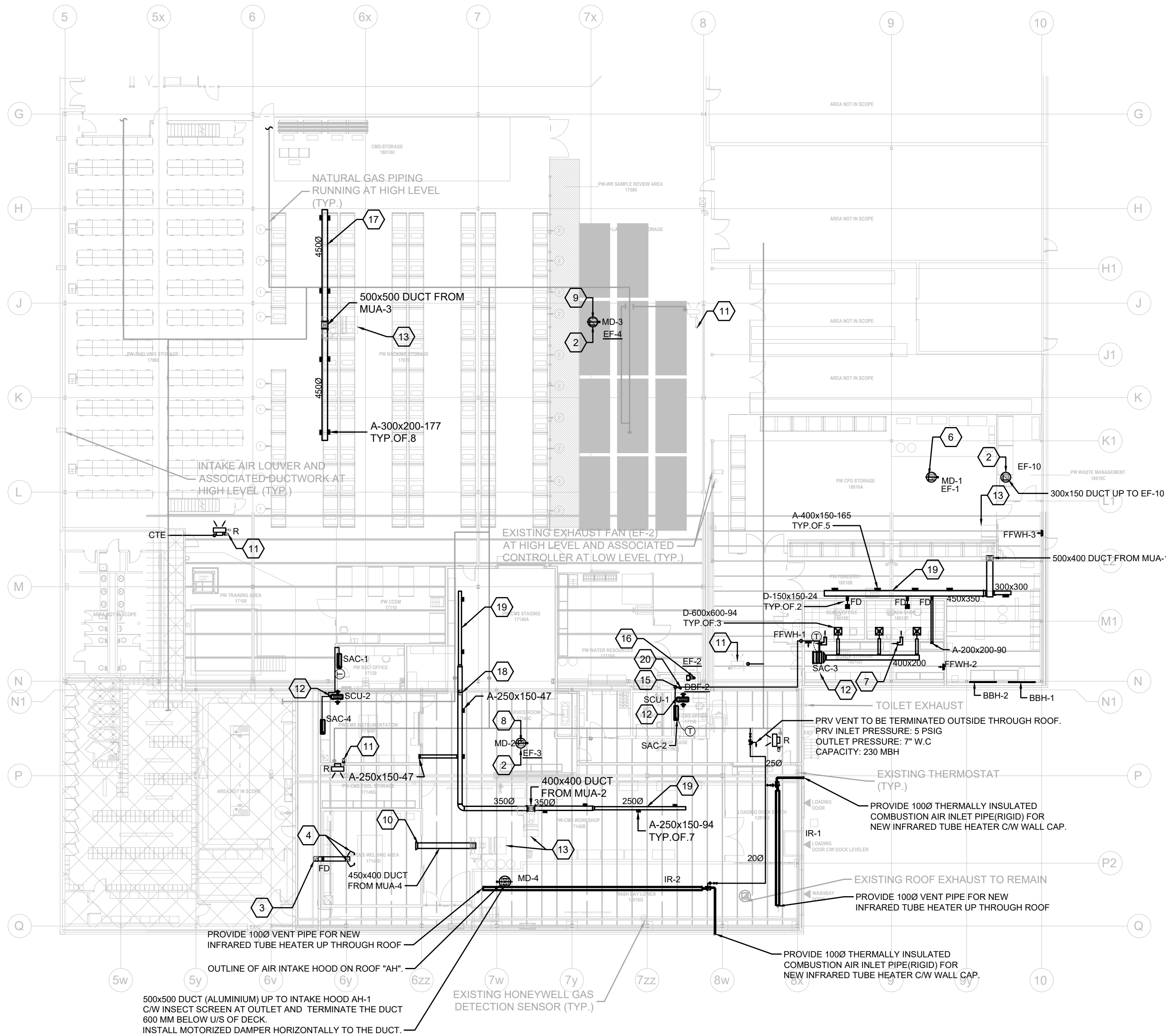
PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

COMPRESSED AIR PIPING LAYOUT

CHECKED ZH	PROJECT No. CM-22-149
SCALE AS SHOWN	DRAWING No. M203

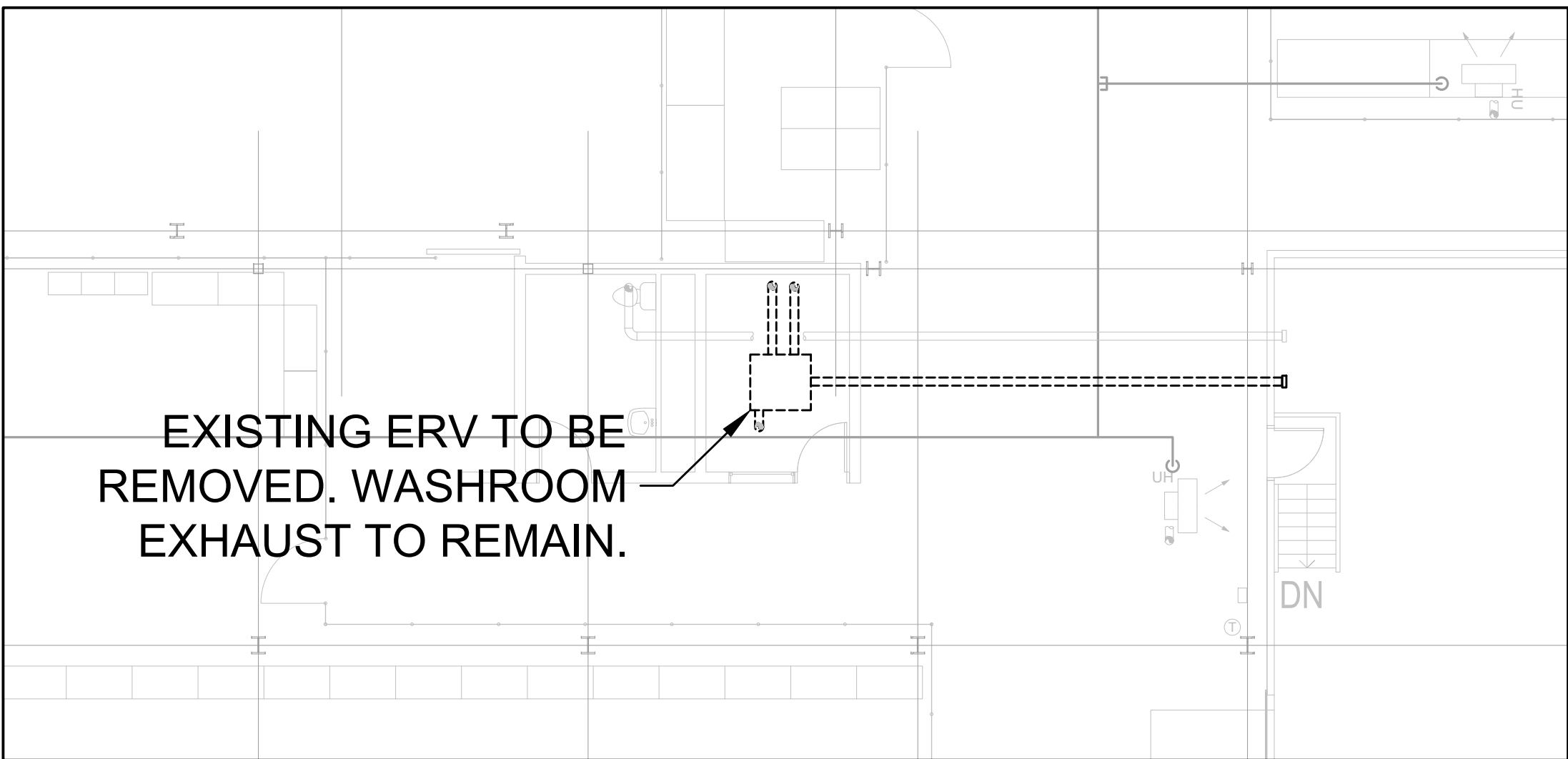
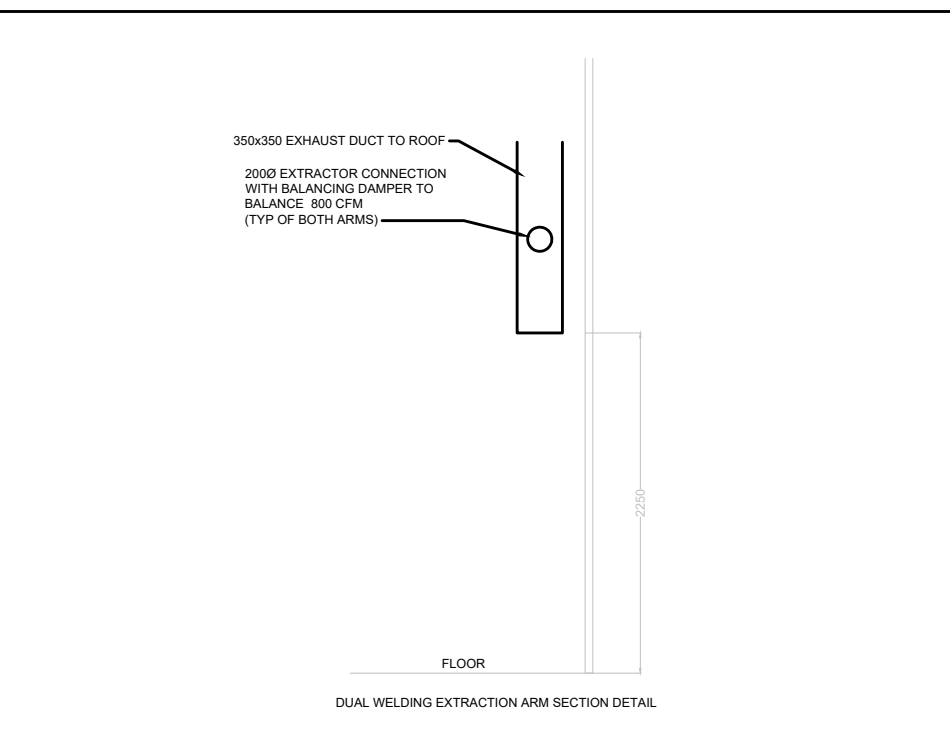


### GENERAL SHEET NOTES

- ALL EXISTING MECHANICAL SERVICES TO REMAIN UNLESS NOTED OTHERWISE.
- ALL DUCTWORK IN WASHBAY TO BE ALUMINIUM CONSTRUCTION OR STAINLESS STEEL
- PROVIDE NEW MECHANICAL SERVICES AS SHOWN IN THE DRAWING.
- ALL NEW HVAC WORK TO COMPLY WITH O.B.C PART 6 AND OTHER PARTS AS APPLICABLE.

### SHEET KEYNOTES

- WELDING EXHAUST HOOD. SEE DETAIL THIS DRAWING
- HIDDEN LINE INDICATE EXHAUST FAN ON ROOF. STRAIGHT DUCT FROM THE LAST 90 TO INLET OF THE FAN TO BE 1000MM (3 TIMES DIA OF THE FAN).
- 350x350 EXHAUST DUCT UP THROUGH ROOF TO EXHAUST FAN EF-5.
- NEDERMAN EXTRACTION DUAL ARM 10560332 NEX HD 4M (14 FT) LENGTH, WITH 2 METER EXTENSION 200MM(8") C/W WALL BRACKET FOR NEX SERIES, AND CONNECT TO EXHAUST DUCT WITH BALANCING DAMPER, (TYP.)
- GAS DETECTION CONTROL PANEL TO OPERATE THE WELDED HOOD EXHAUST FAN AND MAKEUP AIR UNIT.
- 450x450 EXHAUST DUCT UP TO EF-2 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 200x200 TRANSFER AIR DUCT C/W ACOUSTIC LINING AND GRILLES AT BOTH END EH PRICE MODEL 80 (TYP.).
- 400x400 EXHAUST DUCT UP TO EF-3 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 500x500 EXHAUST DUCT UP TO EF-4 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- OPEN ENDED DUCT(OED) WITH INSECT SCREEN
- NEW LOCATION OF UNIT HEATER. PROVIDE A NEW 150MM VENT UP THROUGH ROOF. CONNECT TO THE EXISTING GAS LINE. CONTRACTOR TO ALLOW ADDITIONAL PIPE FITTINGS, SUPPORTS FOR RELOCATION.
- PROVIDE SPLIT UNIT A/C AS SHOWN. REFER TO SCHEDULES FOR DETAILS AND SIZES.
- HIDDEN LINE INDICATE MAKEUP AIR UNIT ON ROOF.
- NATURAL GAS PIPE SHOWN IS RUNNING ON ROOF
- 100Ø DRYER VENT UP THROUGH ROOF. TERMINATE AT 900MM ABOVE ROOF C/W RAIN CAP.
- 150Ø EXHAUST UP THROUGH ROOF. TERMINATE AT 900MM ABOVE ROOF C/W RAIN CAP
- ALL DUCTWORK TO BE MOUNTED AT A HIGH LEVEL SUCH THAT THERE IS A MINIMUM 5FT OF CLEARANCE ABOVE TOP OF RACKING FRAME.
- DUCT TO BE RAISED AND MAINTAIN THE DISTANCE BETWEEN CEILING AND DUCT ACROSS THE ROOF HEIGHT CHANGE.
- DUCT TO BE MOUNTED TIGHT TO UNDERSIDE OF THE ABOVE ROOF DECK
- 100Ø RIGID METAL DOWN AND CONNECT TO DRYER. VERTICALLY INSTALL THE BOOSTER FAN AND LINT TRAP FOR DRYER DBF-1. REFER TO DETAIL ON DRAWING M504.



2 HVAC DEMOLITION LAYOUT GROUND FLOOR  
SCALE: 1:100

1 HVAC NEW LAYOUT - GROUND FLOOR  
SCALE: 1:250

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH D

REVISIONS		
THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.		
PROJECT NORTH		

**QUASAR**  
CONSULTING GROUP

250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

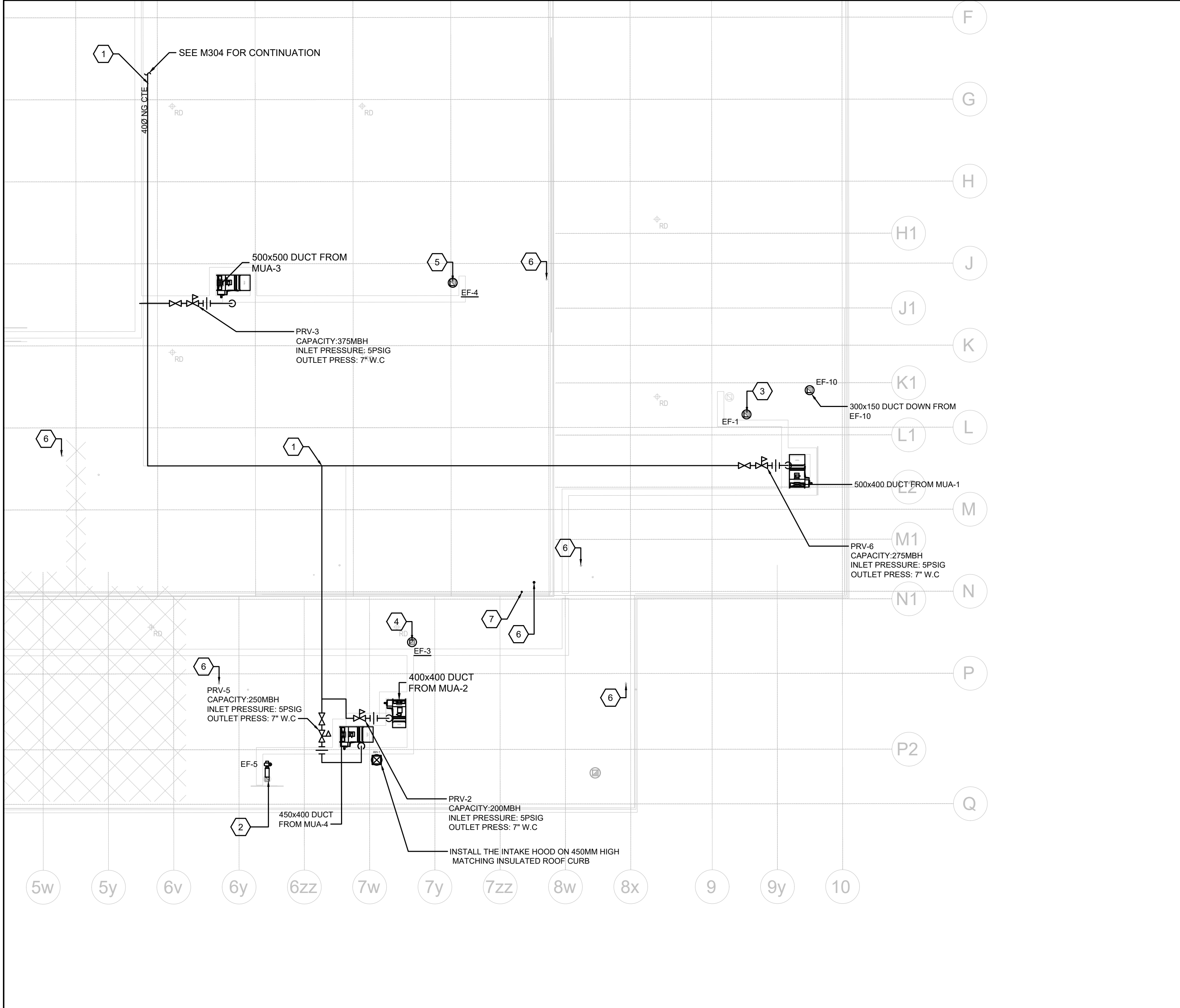
PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**HVAC NEW LAYOUT**

CHECKED ZH	PROJECT No. <b>CM-22-149</b>
SCALE AS SHOWN	DRAWING No. <b>M301</b>







GENERAL SHEET NOTES

- ALL EXISTING MECHANICAL SERVICES TO REMAIN UNLESS NOTED OTHERWISE.
- PROVIDE NEW MECHANICAL SERVICES AS SHOWN IN THE DRAWING.
- ALL HVAC WORK TO COMPLY WITH O.B.C PART 6 AND OTHER PARTS AS APPLICABLE.

SHEET KEYNOTES

- NATURAL GAS PIPE SHOWN IS RUNNING ON ROOF
- 350x350 EXHAUST DUCT FROM BELOW.
- 450x450 EXHAUST DUCT FROM BELOW.
- 400x400 EXHAUST DUCT FROM BELOW.
- 500x500 EXHAUST DUCT FROM BELOW.
- 1500 MM VENT FROM BELOW AND TERMINATE 900MM ABOVE FINISH ROOF.
- 1000 DRYER VENT FROM BELOW AND TERMINATE 900MM ABOVE FINISH ROOF C/W RAIN CAP.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
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5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
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No.	DATE	DESCRIPTION	CH'D

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 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM	
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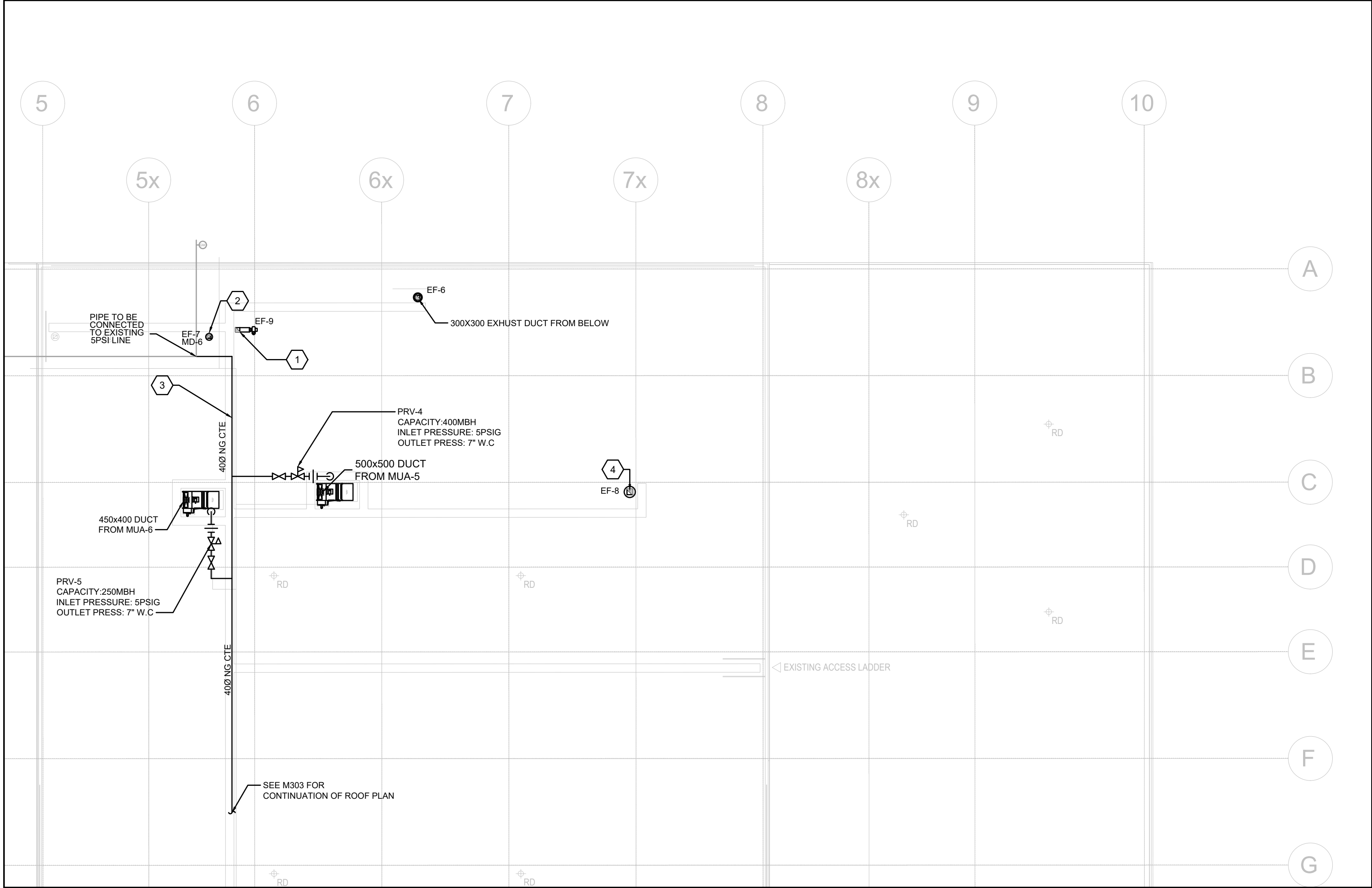
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

PROJECT  
**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**HVAC NEW LAYOUT ROOF PLAN**

CHECKED ZH	PROJECT No. <b>CM-22-149</b>
SCALE AS SHOWN	DRAWING No. <b>M303</b>





GENERAL SHEET NOTES

- ALL EXISTING MECHANICAL SERVICES TO REMAIN UNLESS NOTED OTHERWISE.
- PROVIDE NEW MECHANICAL SERVICES AS SHOWN IN THE DRAWING.
- ALL HVAC WORK TO COMPLY WITH O.B.C PART 6 AND OTHER PARTS AS APPLICABLE.

SHEET KEYNOTES

- 350x350 EXHAUST DUCT FROM BELOW FLOOR.
- 300x250 EXHAUST DUCT FROM BELOW.
- NATURAL GAS PIPE SHOWN IS RUNNING ON ROOF
- 450x450 EXHAUST DUCT FROM BELOW.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
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5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH'D

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250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM	

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PROJECT  
**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
HVAC NEW LAYOUT ROOF PLAN CONT.


CHECKED ZH	PROJECT No. CM-22-149
SCALE AS SHOWN	DRAWING No. M304





# GENERAL SHEET NOTES

1. ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE.  
CONTRACTOR TO VERIFY EXIST LOCATION AND EXTENT OF EXISTING SERVICES AND TO VERIFY WITH BASE BUILDING BEFORE COMMENCEMENT OF WORK.  
VISIT THE SITE TO VERIFY EXISTING CONDITIONS AND TO SUBMIT THE EXISTING CONDITIONS TO BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES ARE LOCATED AS SHOWN ON THE DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. OTHER THAN ENGINEER'S RECOMMENDATIONS, OMISSIONS, AND INTERFERENCES.  
COORDINATE ALL SPRINKLER BRANCH PIPING WITH ALL OTHER EXISTING SERVICES TO BE DONE. RELOCATE SPRINKLER LINES TO FACILITATE THE INSTALLATION OF SERVICES AS REQUIRED.
2. ALL MECHANICAL SERVICES TO BE PROVIDED BY MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE FULLY CONSIDERED BY THE PROVIDER OF SERVICES AND STRUCTURE - COORDINATE WITH OWNER AND MECHANICAL EQUIPMENT PROVIDER. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED TO PROVIDE ALL ACCESS REQUIREMENTS - REFER TO OWNER'S OBSTRUCTIONS TO THE PROJECT. MANAGER OF MECHANICAL EQUIPMENT PROVIDER PROVIDE DOOR/PANELS TO MATCH BASE BUILDING TO MATCH ACCESS REQUIREMENTS.
3. SPRINKLER LAYOUTS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT ONLY. CONTRACTOR SHALL PROVIDE THE ROUTING OF SPRINKLER LINES, PIPING AND FITTINGS TO ACCOMMODATE THE SITE CONDITIONS. SPRINKLER HEAD LAYOUT AND SIZE SHALL COMPLY WITH THE CODES. PROVIDE STAMPED AND SEALED SPRINKLER DRAWINGS AND CALCULATIONS TO THE MECHANICAL EQUIPMENT PROVIDER.
4. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE THE INSTALLATION OF MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
5. PROVIDE FIRE STOPPING AND SEAL ALL PIPING PENETRATIONS AT FIRE RATED WALLS AS REQUIRED BY CODE.

REVISIONS	
<p>THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.</p>	<p>PROJECT NORTH</p> 



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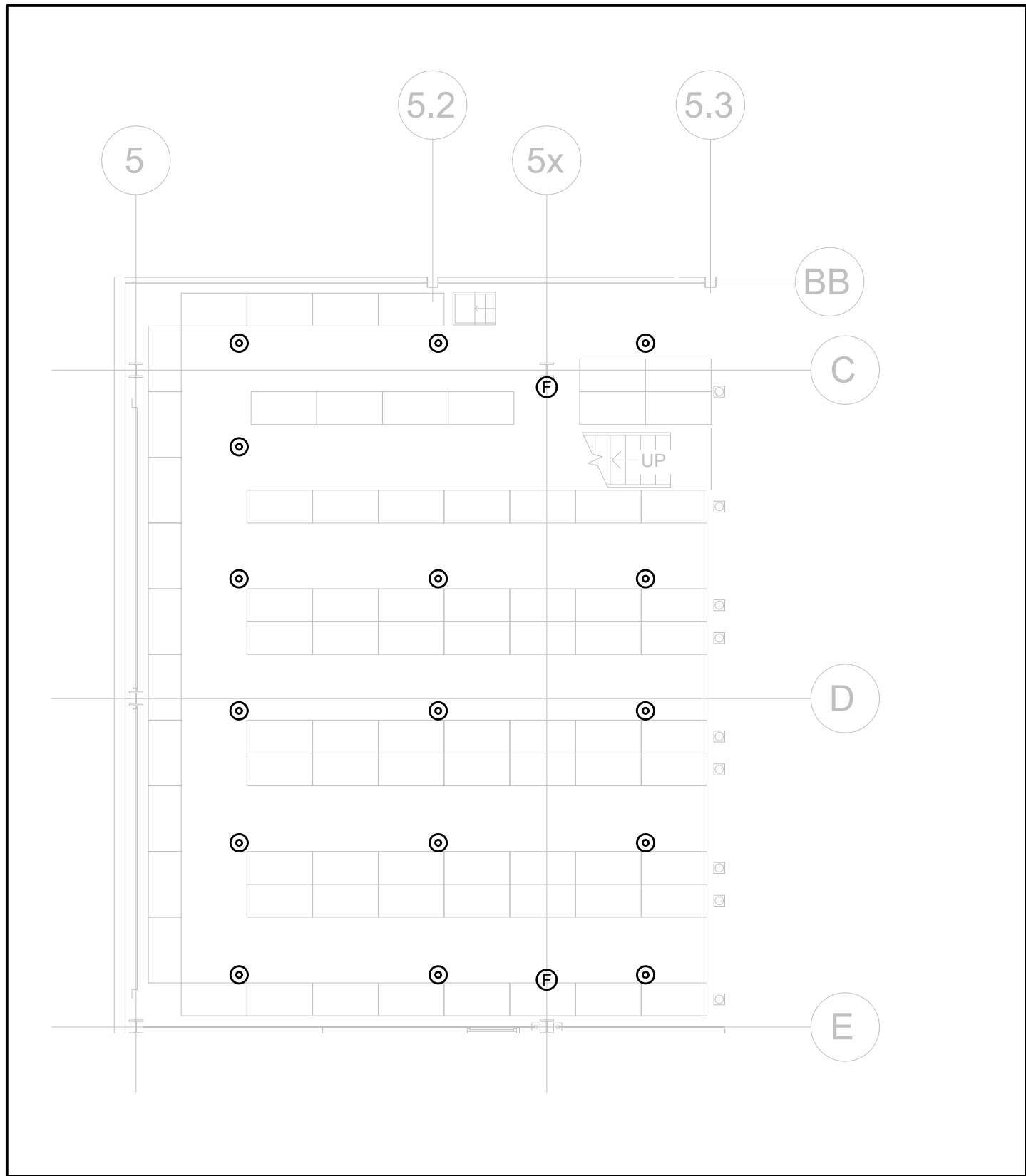
PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

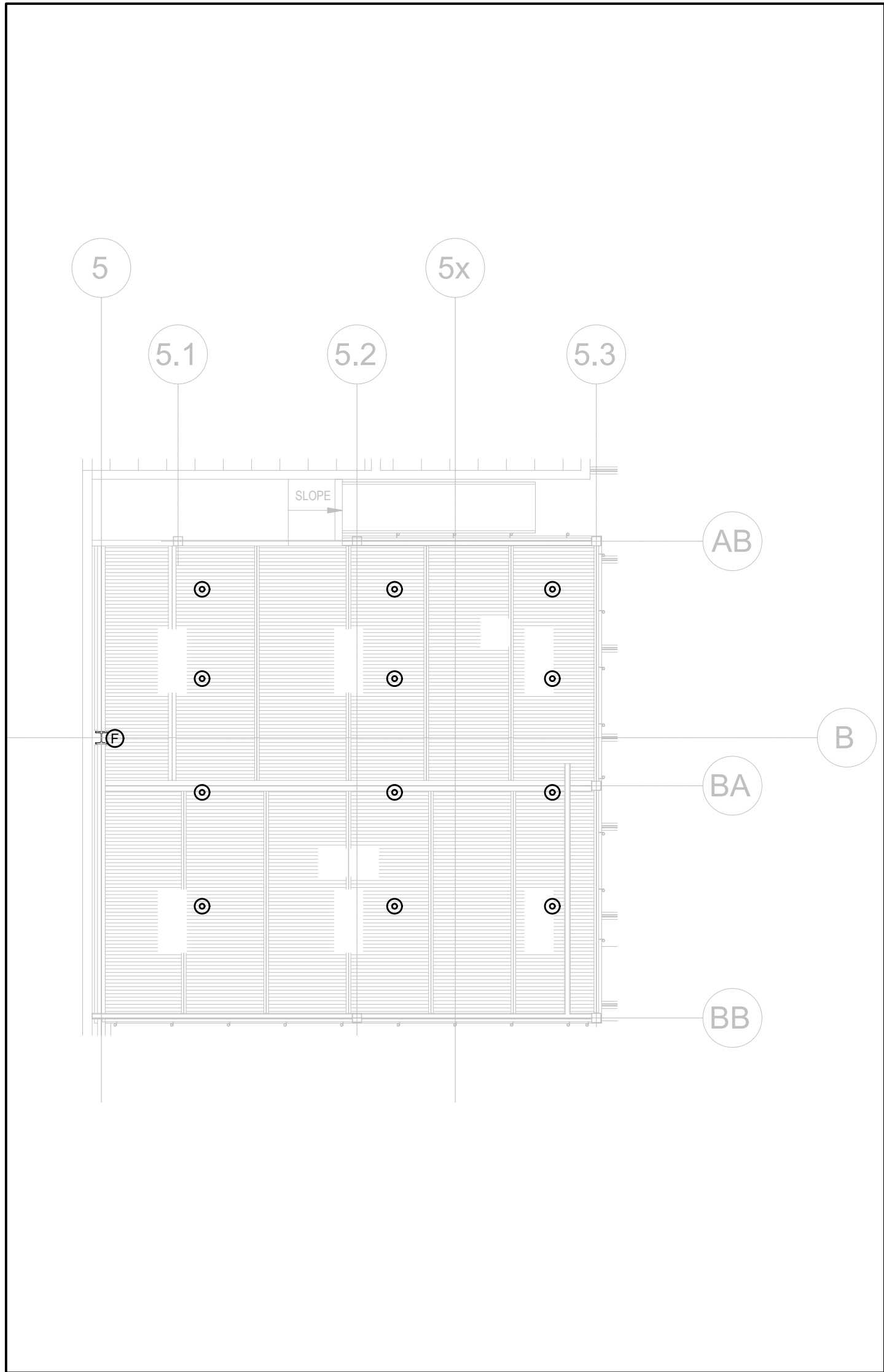
TITLE
FIRE PROTECTION LAYOUT EXISTING-GROUND LEVEL

CHECKED	PROJECT No.
ZH	CM-22-149
SCALE	DRAWING No.
AS SHOWN	M400

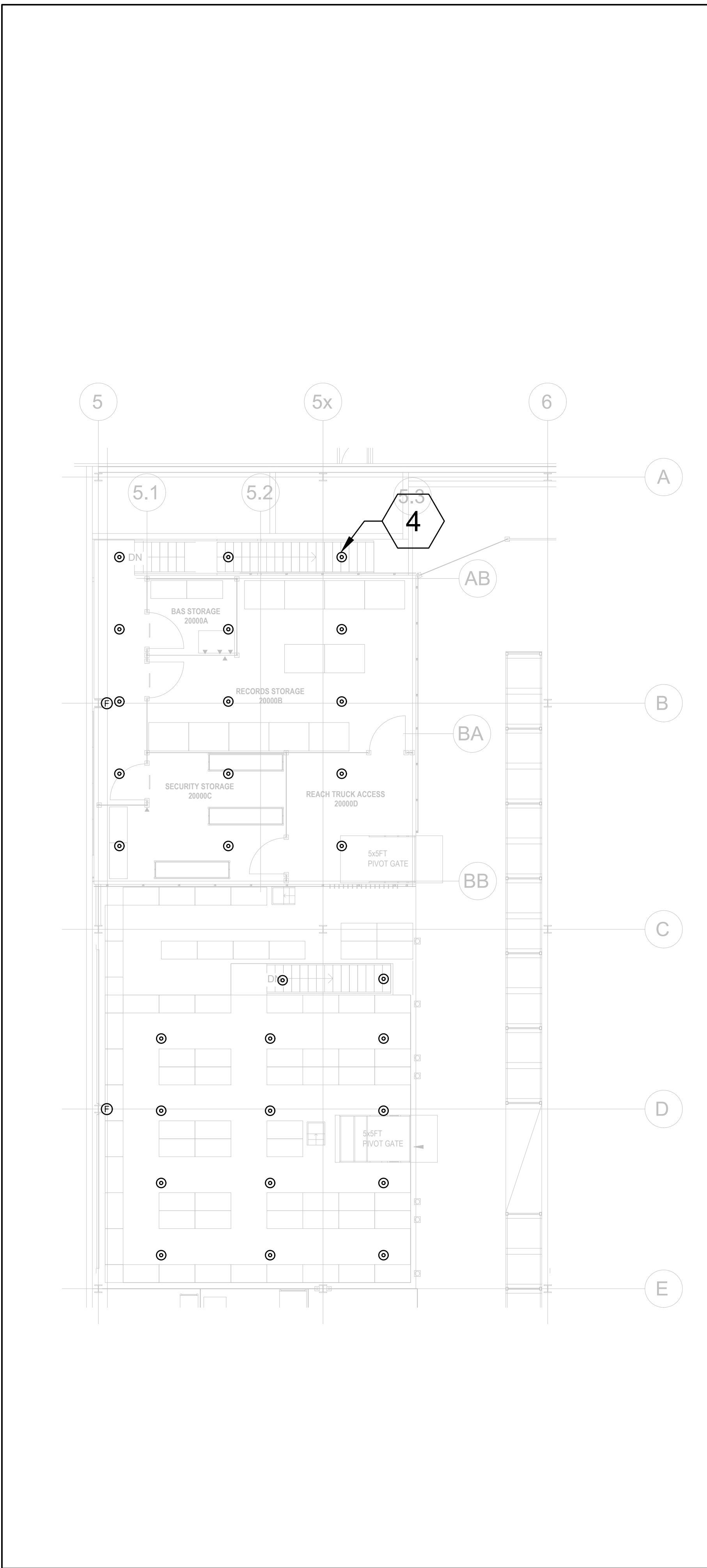




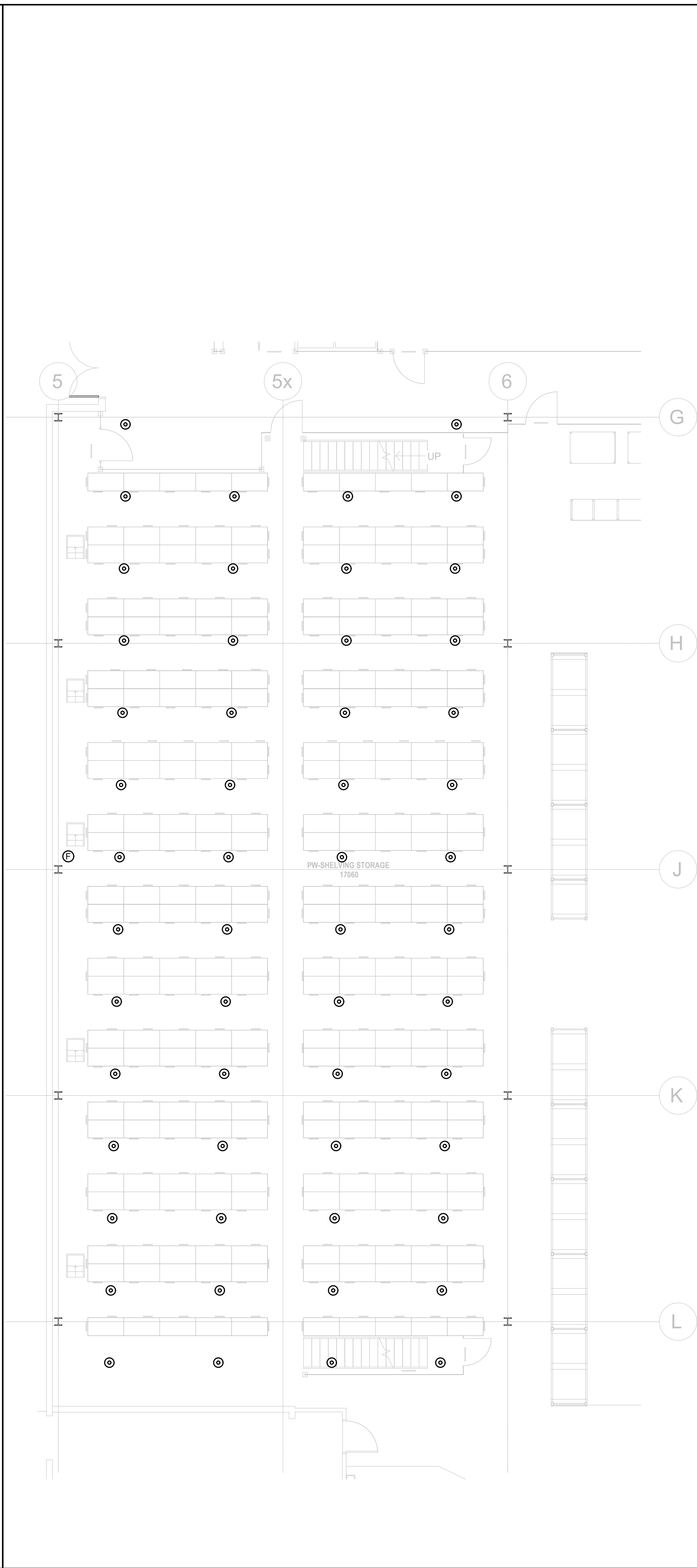
1 FIRE PROTECTION -MEZZANINE LEVEL1  
SCALE: 1:100



2 FP PLAN CS FMO WORKSHOP  
SCALE: 1:100



3 FIRE PROTECTION-MEZZANINE LEVEL2  
SCALE: 1:100




4 PW-SHELVING STORAGE FP PLAN  
SCALE: 1:100

10	2024-09-30	RE-ISSUED FOR TENDER	
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3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH'D

REVISIONS

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PROJECT NORTH



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TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

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CM-22-149@QUASARCG.COM

PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

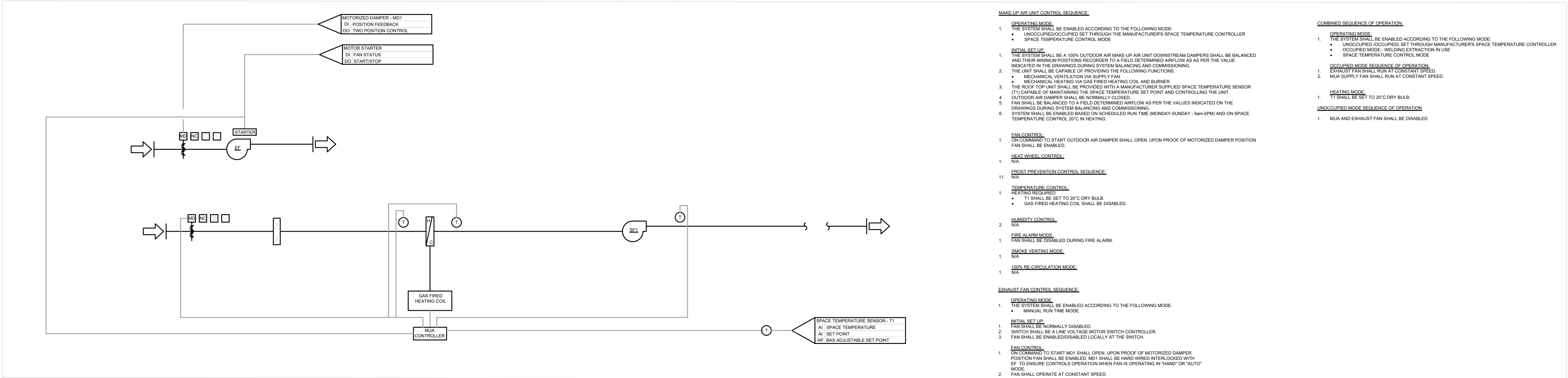
TITLE  
**FIRE PROTECTION LAYOUT NEW - MEZZANINE LEVEL**

CHECKED  
ZH

PROJECT No.  
**CM-22-149**

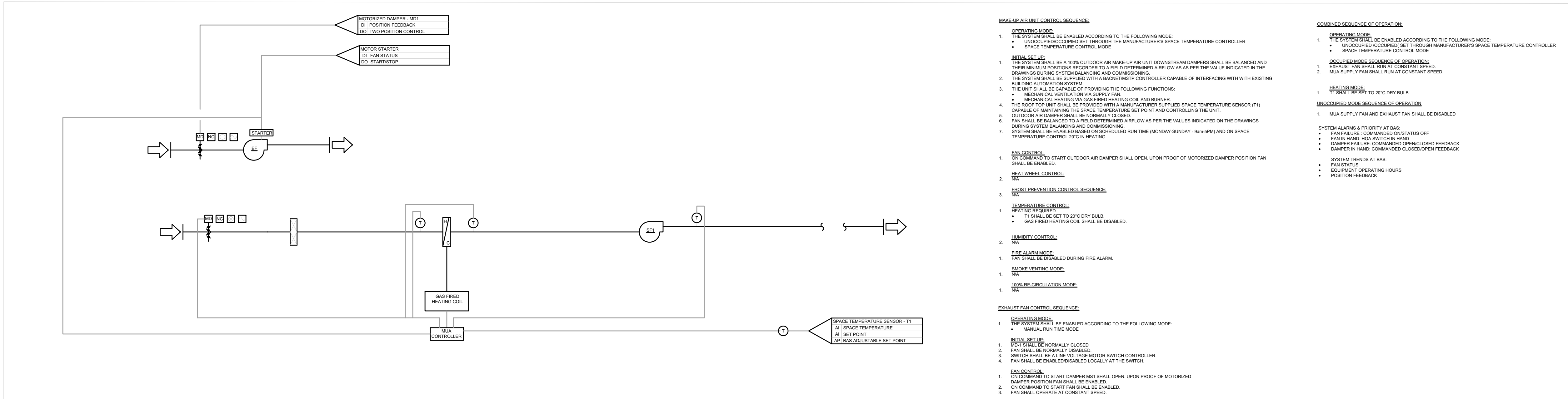
SCALE  
AS SHOWN

DRAWING No.  
**M401**



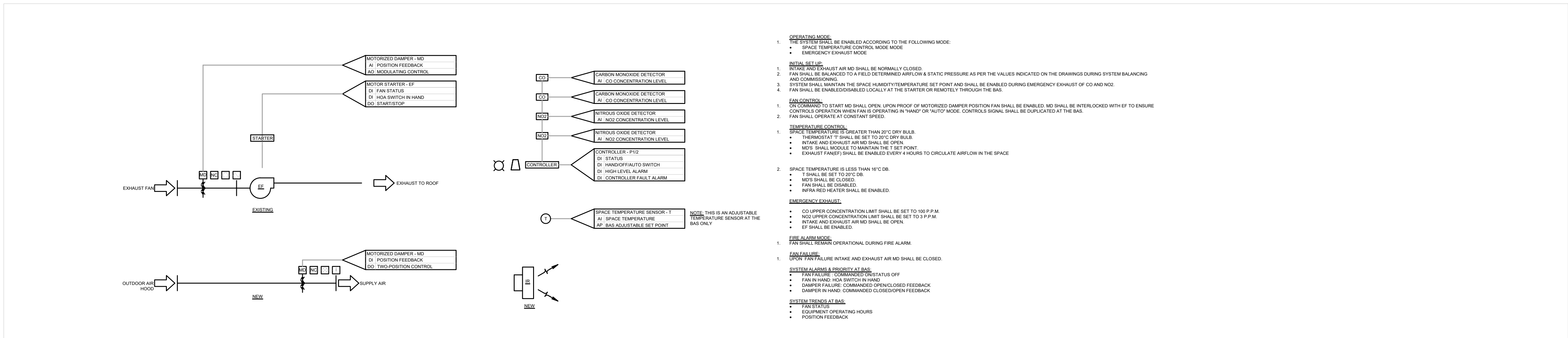
1 WELDING WORKSHOP HVAC SYSTEM

NOT TO SCALE



2 WARE HOUSE HVAC SYSTEM

NOT TO SCALE



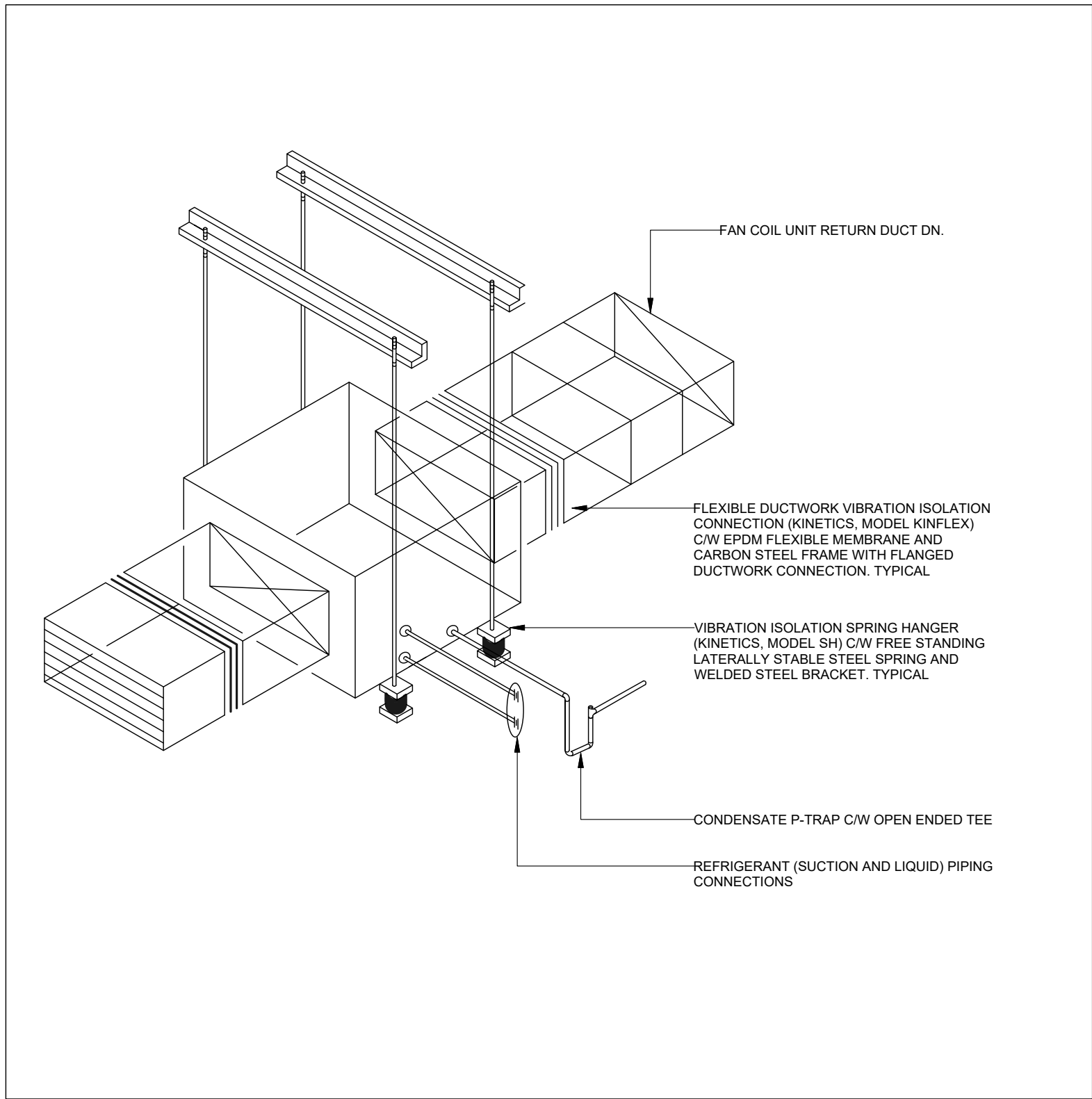
3 WASHBAY HVAC SYSTEM

NOT TO SCALE

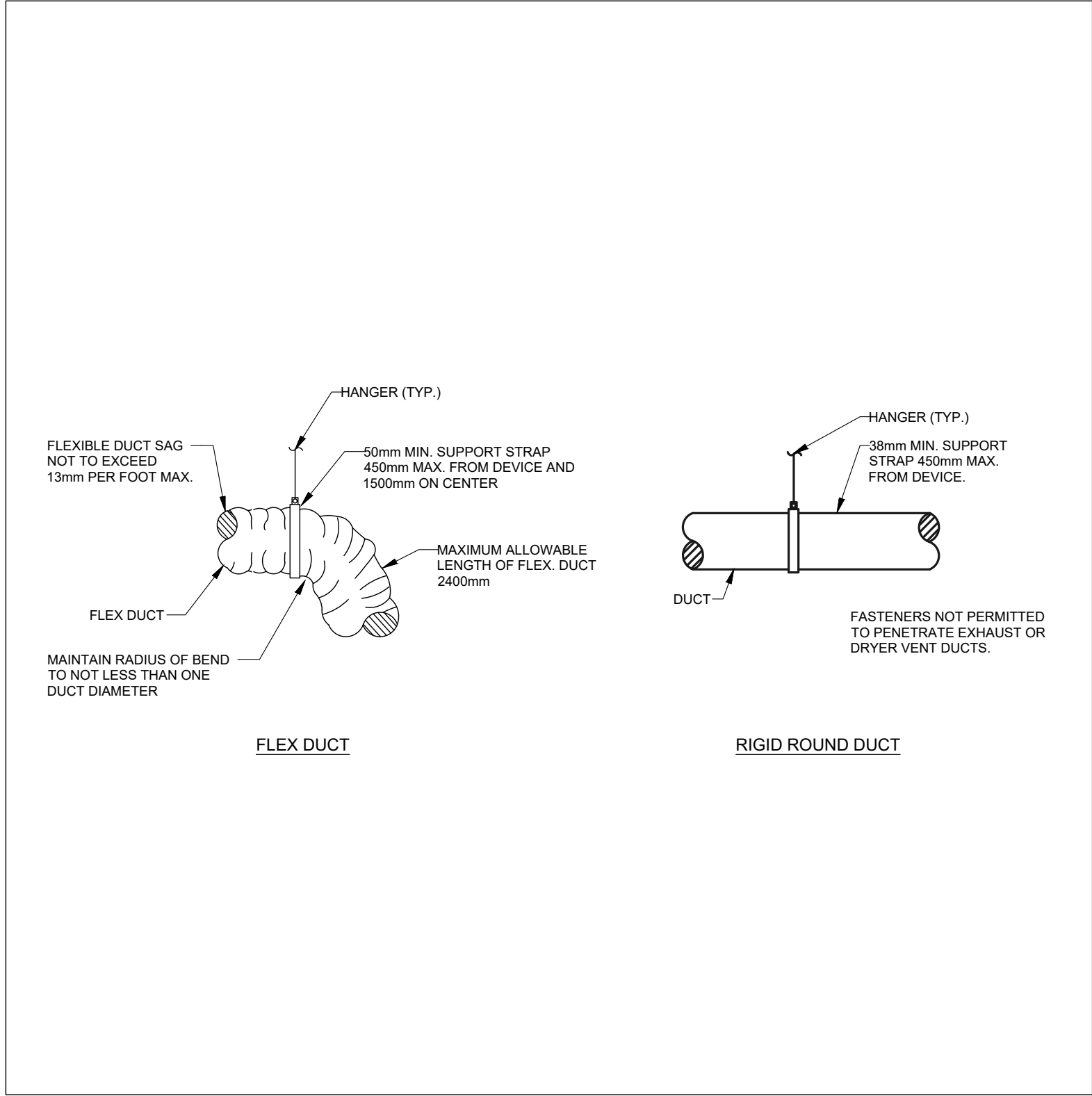
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9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH D

REVISIONS		
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PROJECT NORTH		
QUASAR CONSULTING GROUP		
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM		
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-22-149@QUASARCG.COM		
PROJECT		
HWP WAREHOUSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3		
TITLE		
CONTROL SEQUENCE		
CHECKED	ZH	PROJECT No. CM-22-149
SCALE	AS SHOWN	DRAWING No. M500

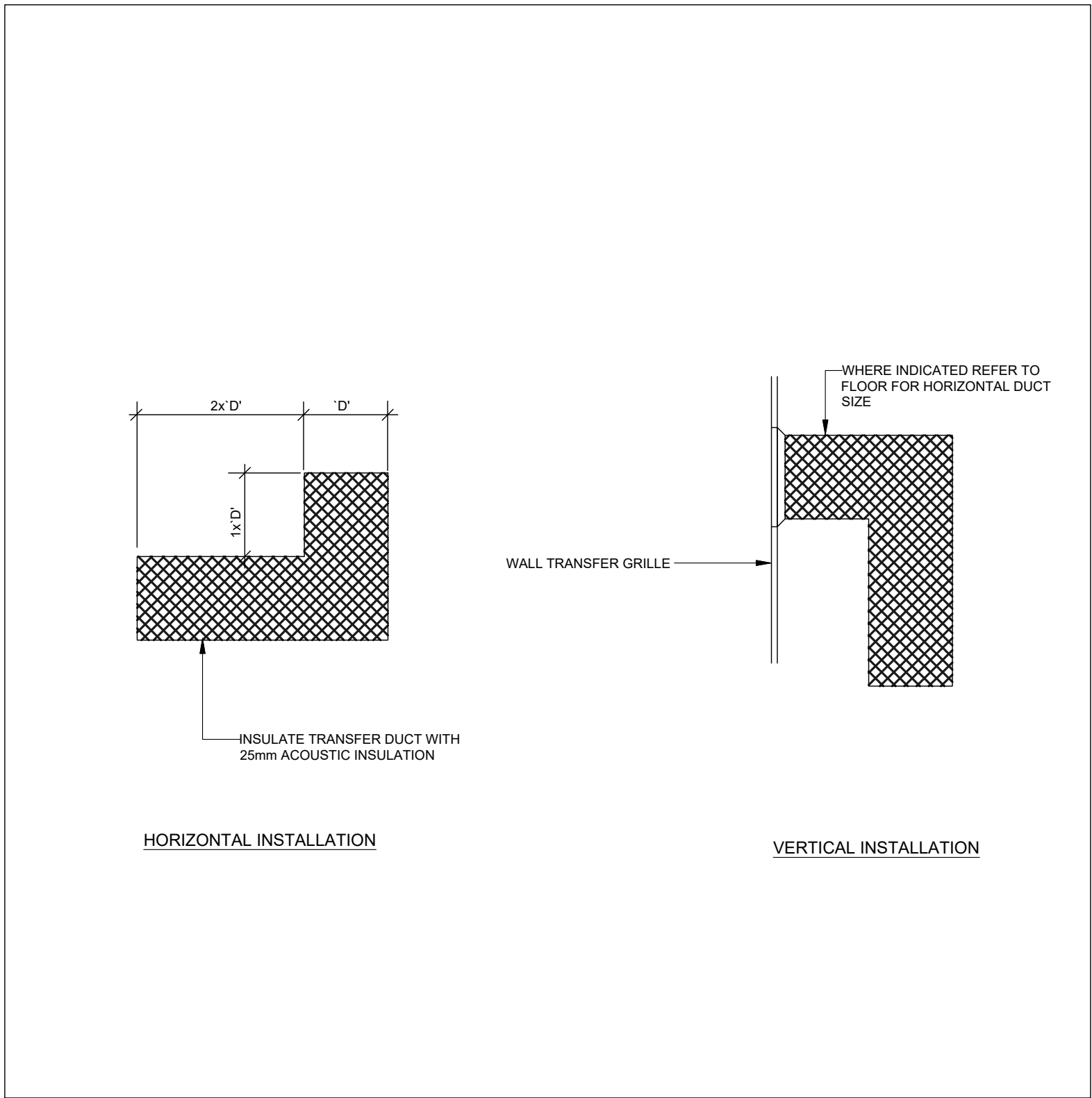




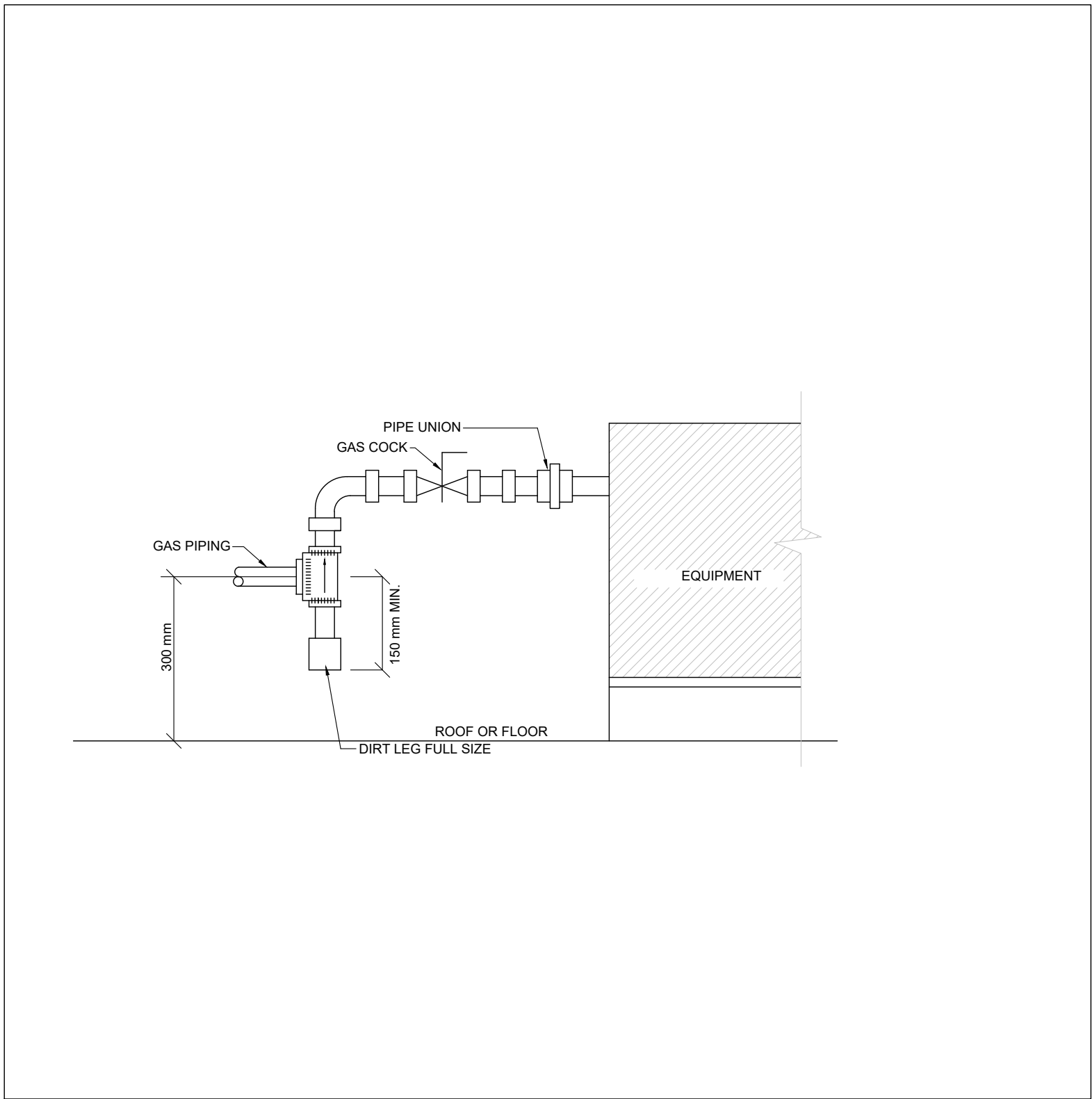
6 CEILING SUSPENDED FAN COIL UNIT  
NOT TO SCALE



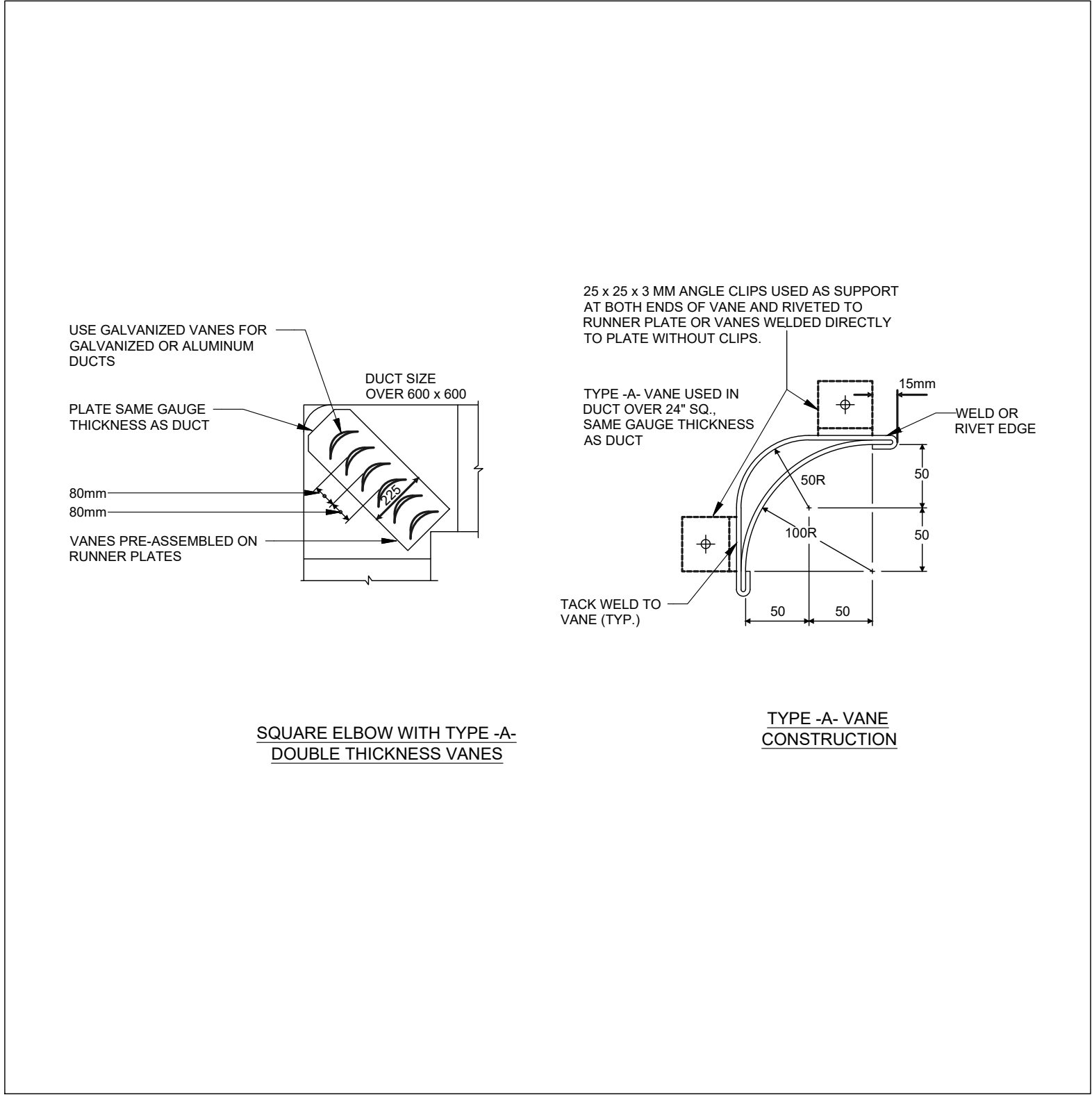
3 RIGID AND FLEX DUCT HANGERS  
NOT TO SCALE



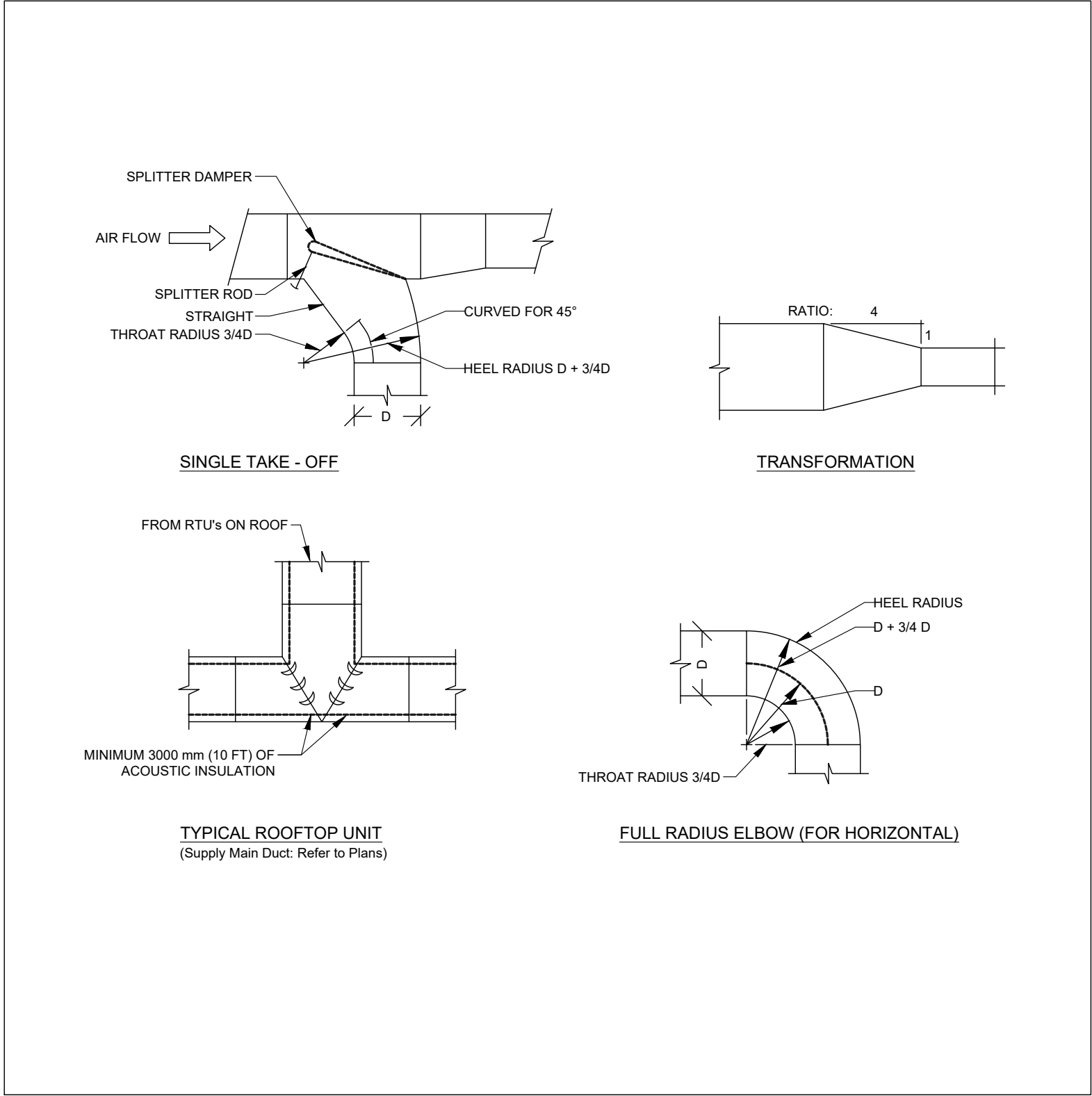
5 AIR TRANSFER GRILLE  
NOT TO SCALE



4 NATURAL GAS PIPE CONNECTION TO EQUIPMENT  
NOT TO SCALE



2 SQUARE ELBOW WITH TURNING VANES  
NOT TO SCALE



1 DUCT TRANSITIONS  
NOT TO SCALE

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
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5	2024-04-01	RE-ISSUED FOR 100% DD	
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No.	DATE	DESCRIPTION	CH'D

REVISIONS			PROJECT NORTH
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**QUASAR**  
CONSULTING GROUP

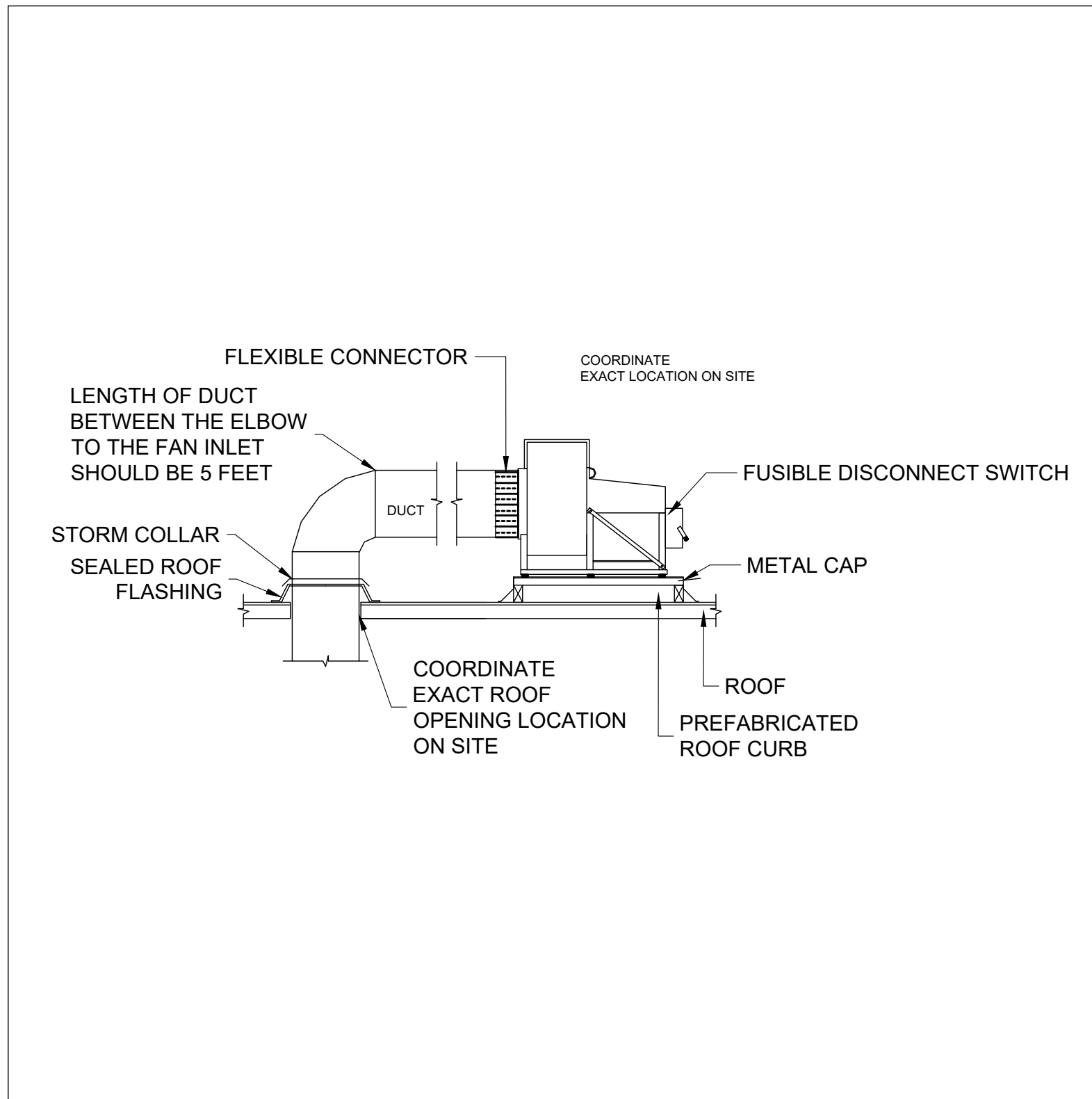
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

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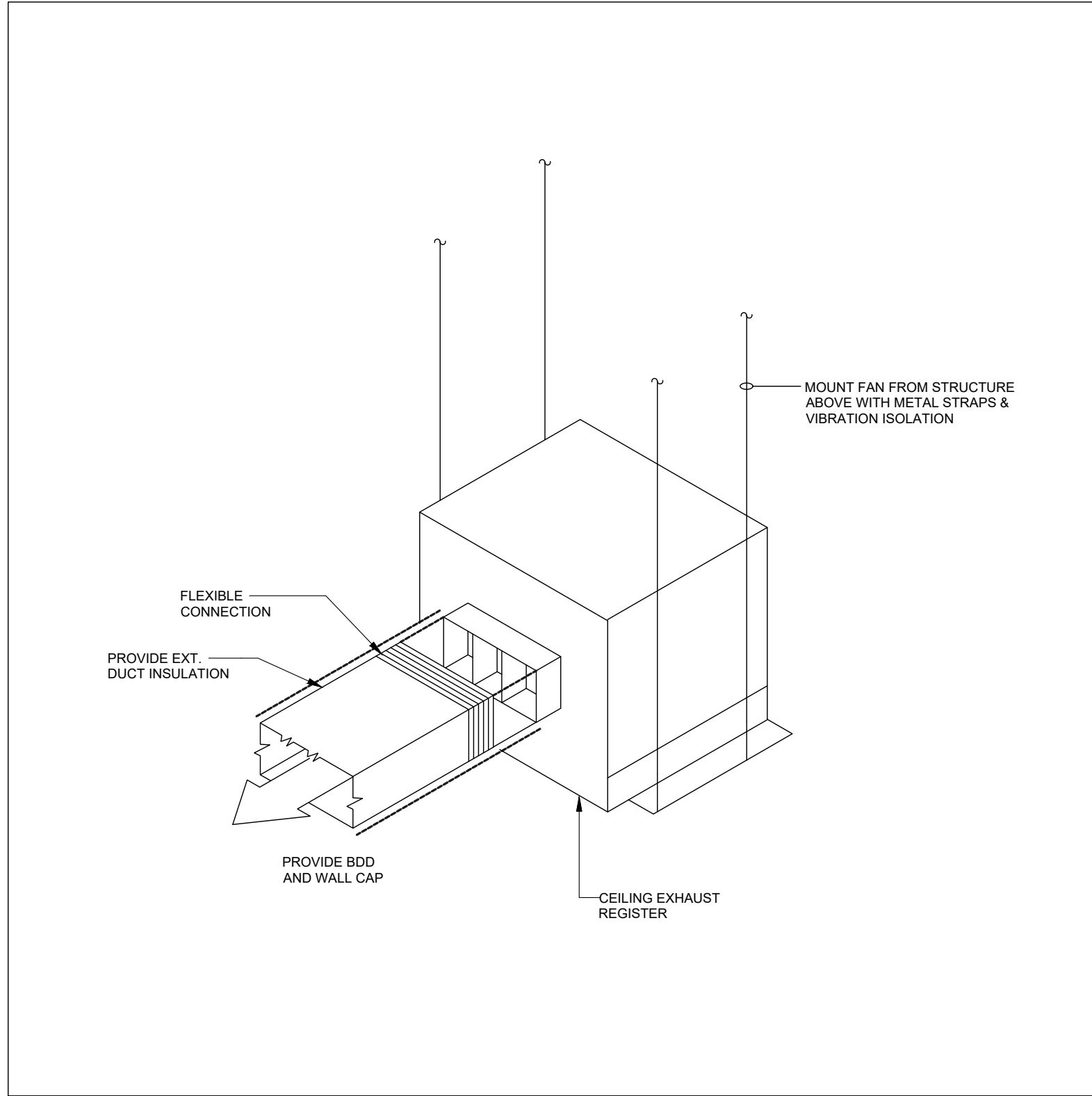
PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**MECHANICAL DETAILS**

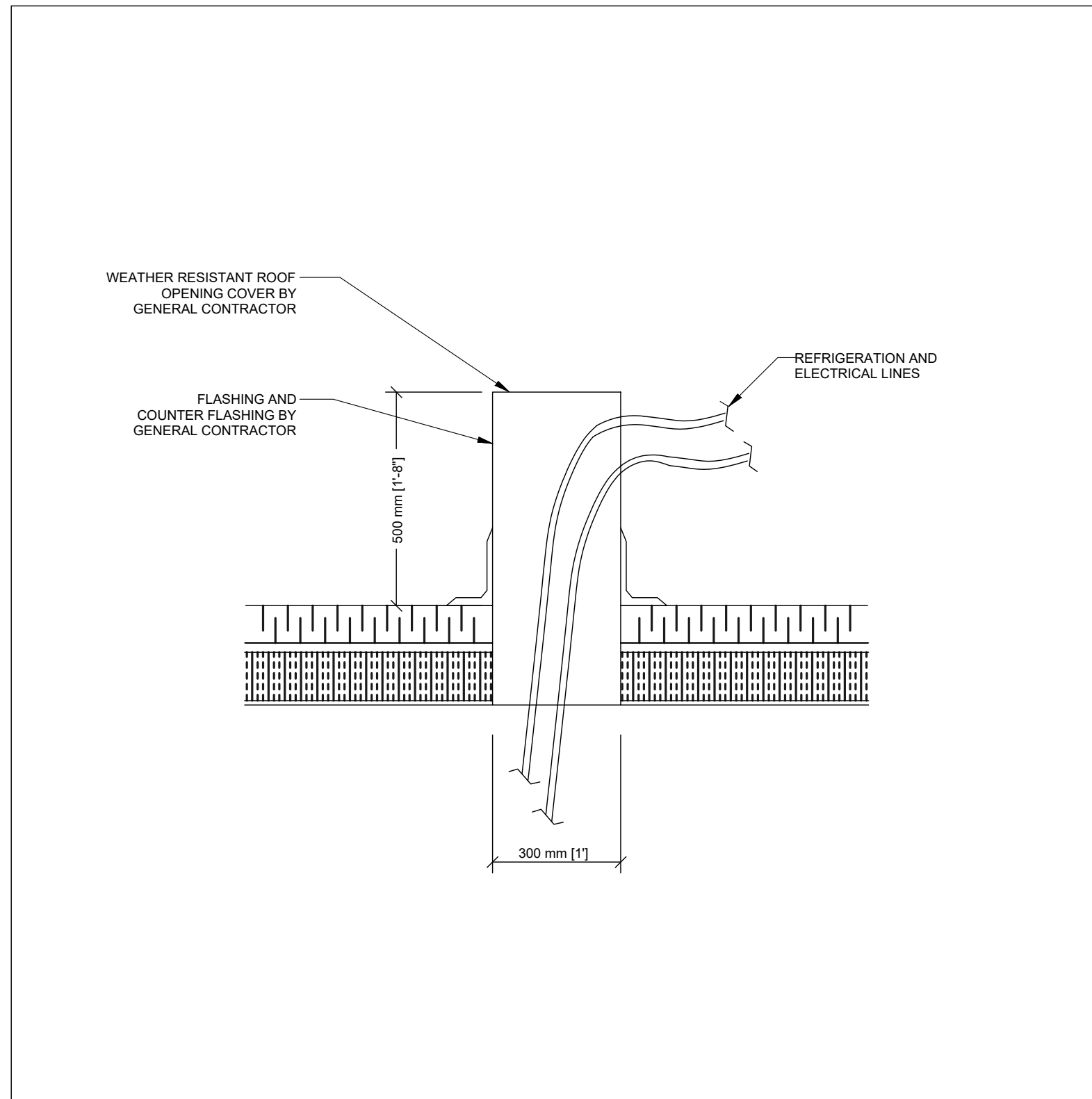
CHECKED	ZH	PROJECT No. <b>CM-22-149</b>
SCALE	AS SHOWN	DRAWING No. <b>M501</b>



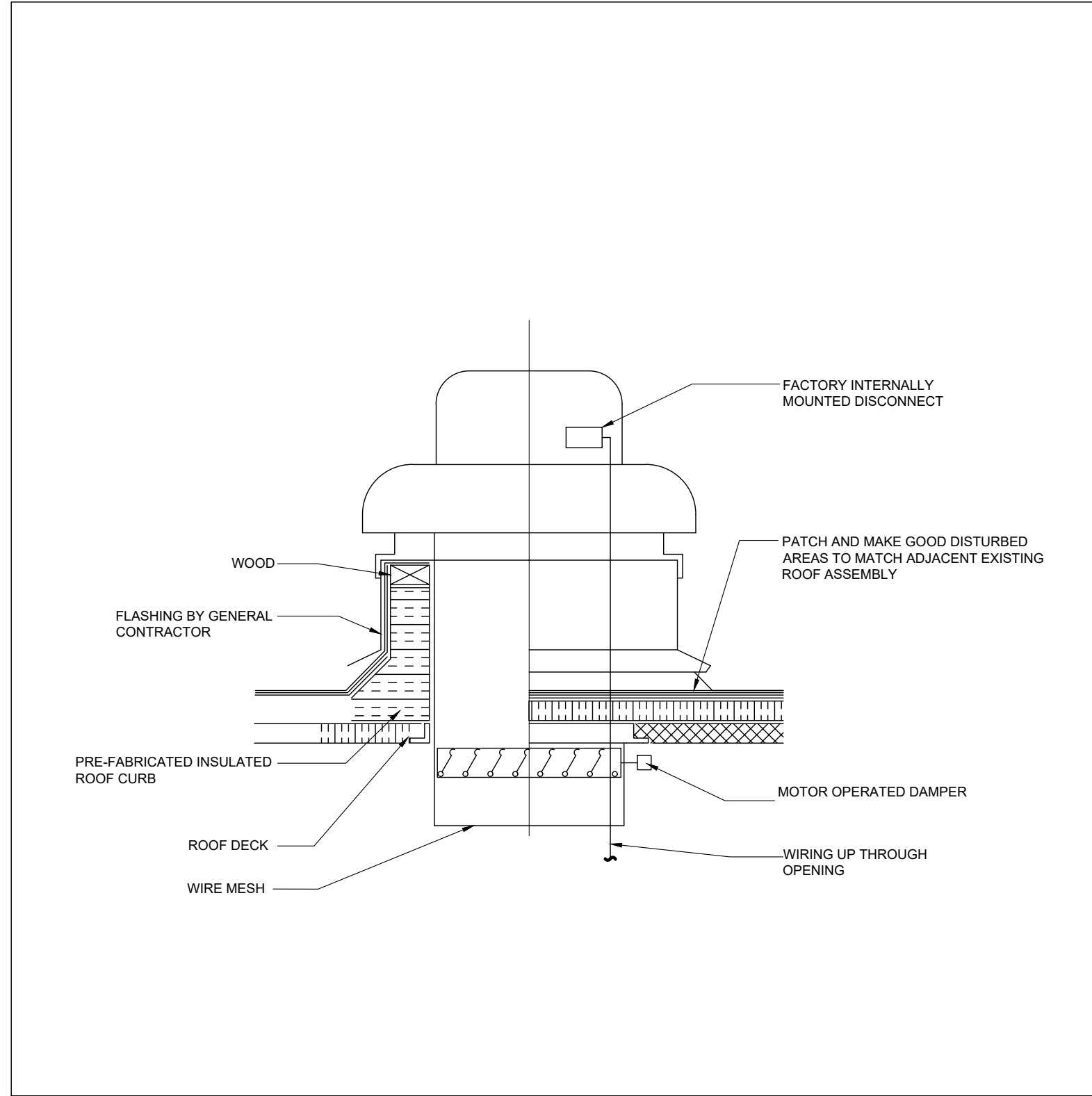
**1** ROOF MOUNTED UTILITY EXHAUST FAN  
NOT TO SCALE



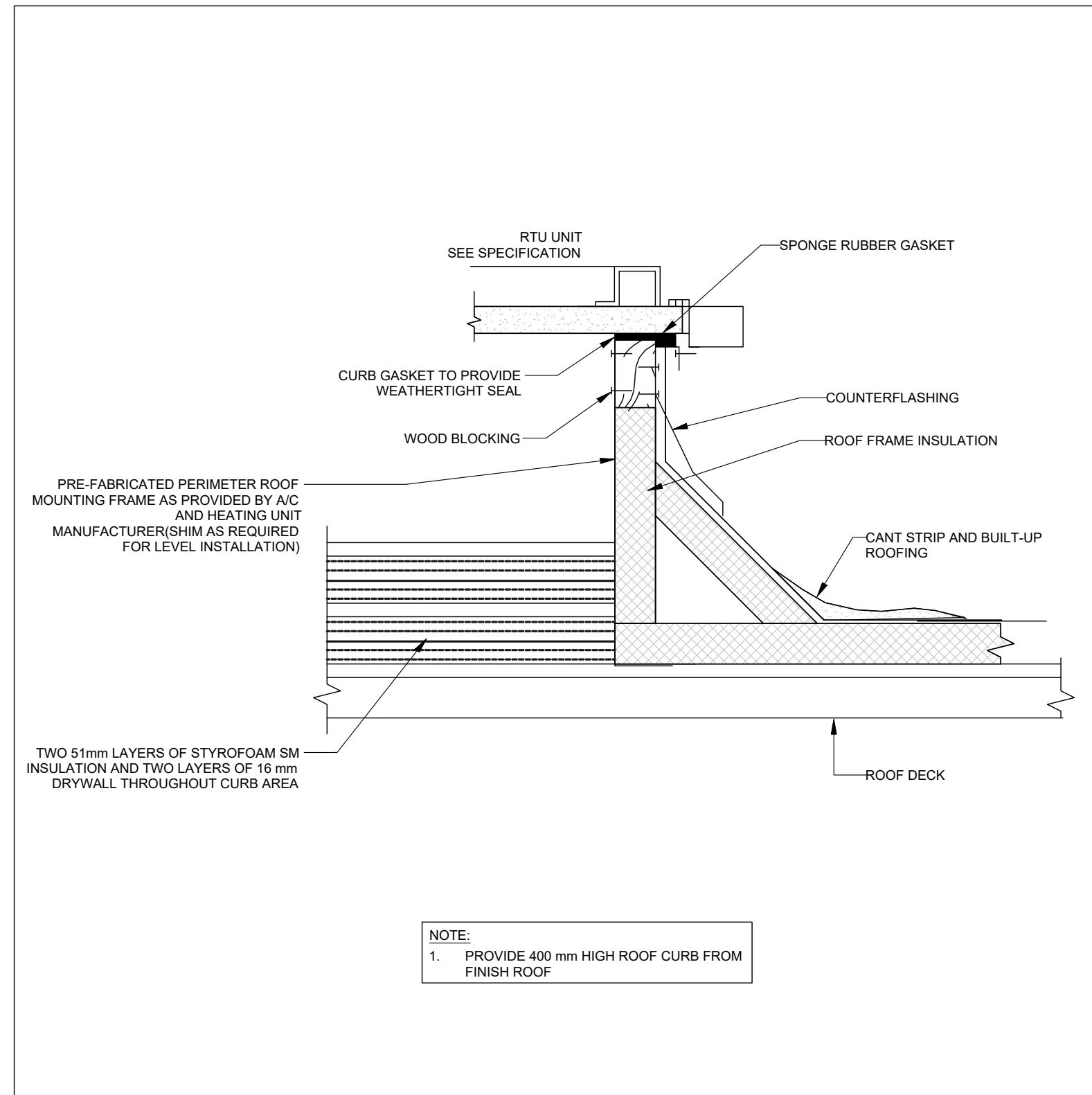
**4** CENTRIFUGAL HVAC CEILING FAN  
NOT TO SCALE



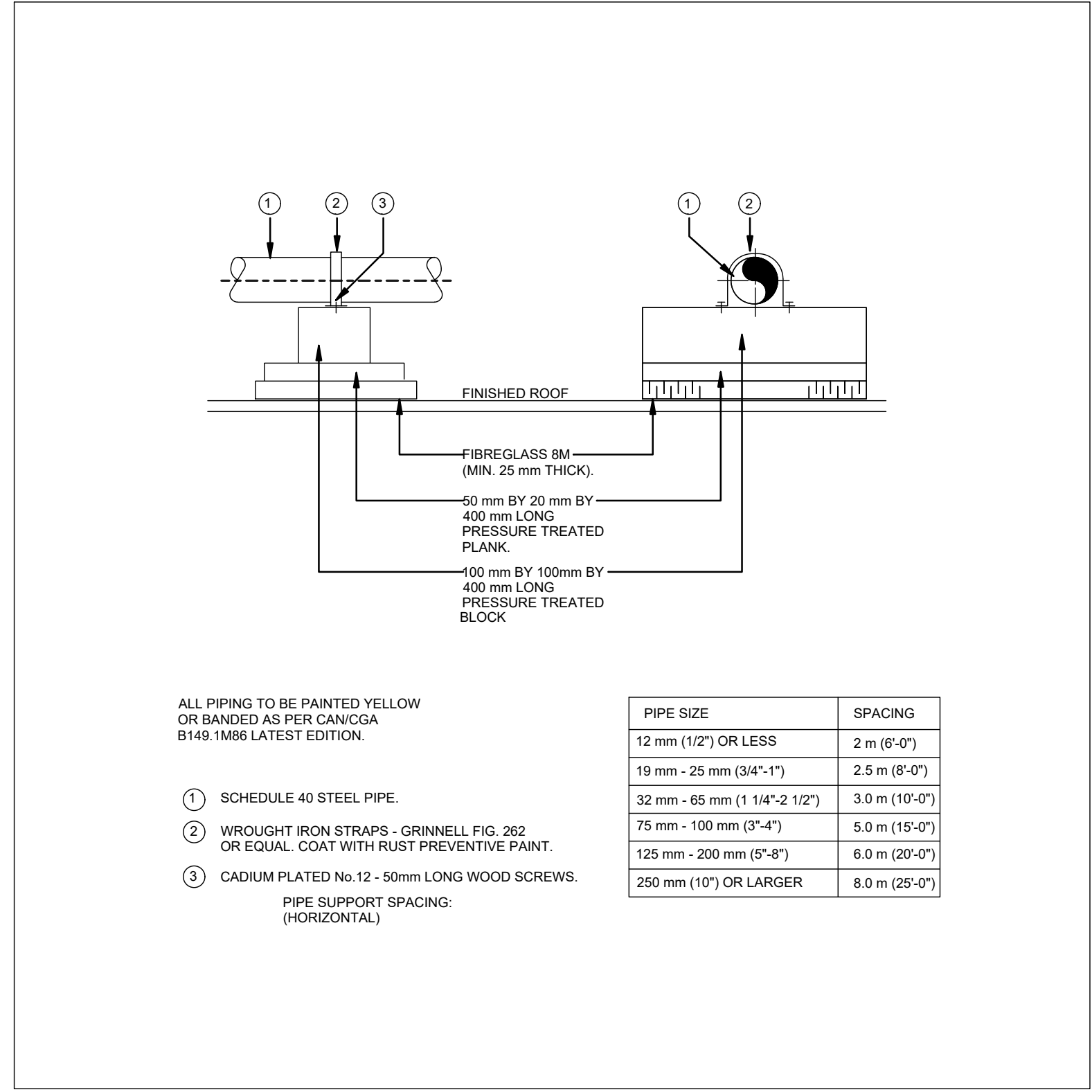
**2** REFRIGERANT PIPING AND CONDUITS THROUGH ROOF  
NOT TO SCALE



**5** ROOF MOUNTED EXHAUST FAN  
NOT TO SCALE



**3** ROOFTOP UNIT SUPPORT  
NOT TO SCALE



**6** NATURAL GAS PIPING SUPPORTS  
NOT TO SCALE

10	2024-09-30	RE-ISSUED FOR TENDER	
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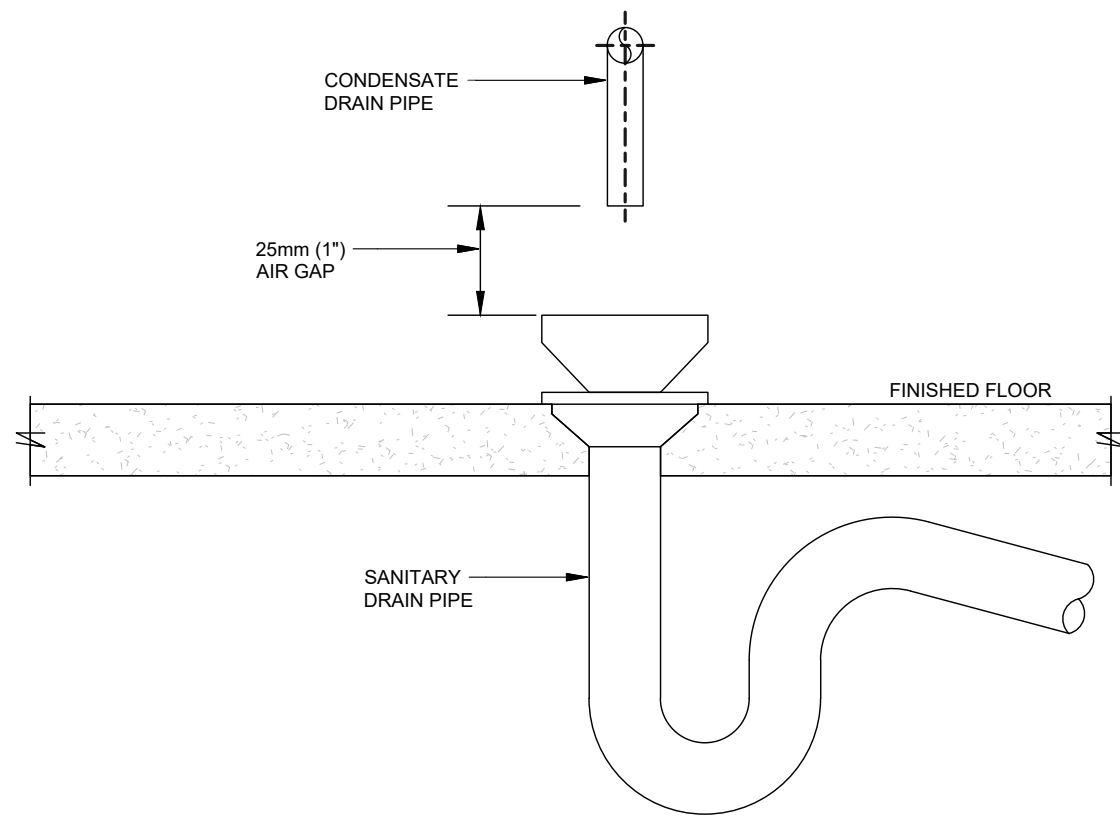
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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

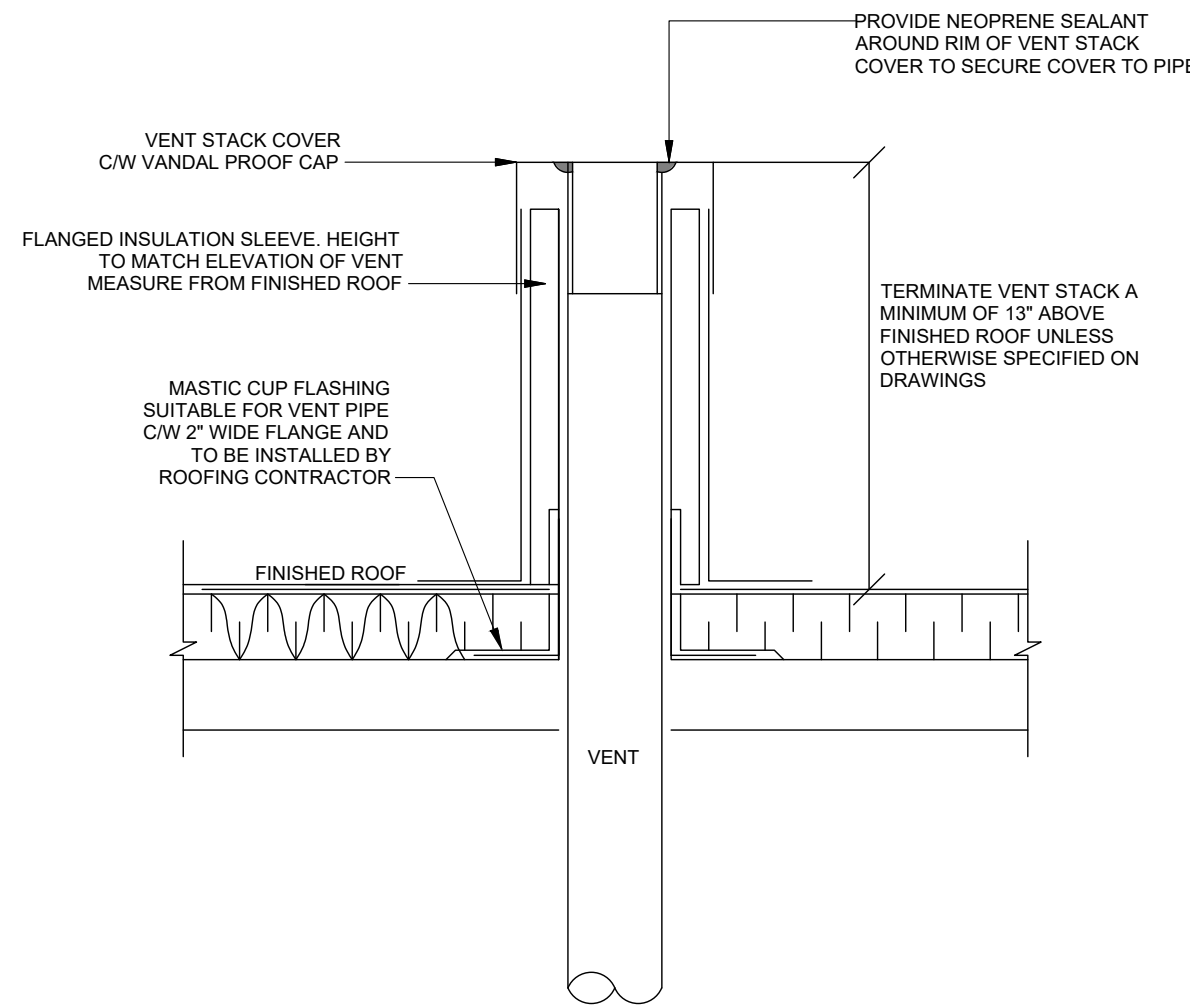
TITLE  
**MECHANICAL DETAILS**

CHECKED	ZH	PROJECT No.	CM-22-149
SCALE	AS SHOWN	DRAWING No.	M502

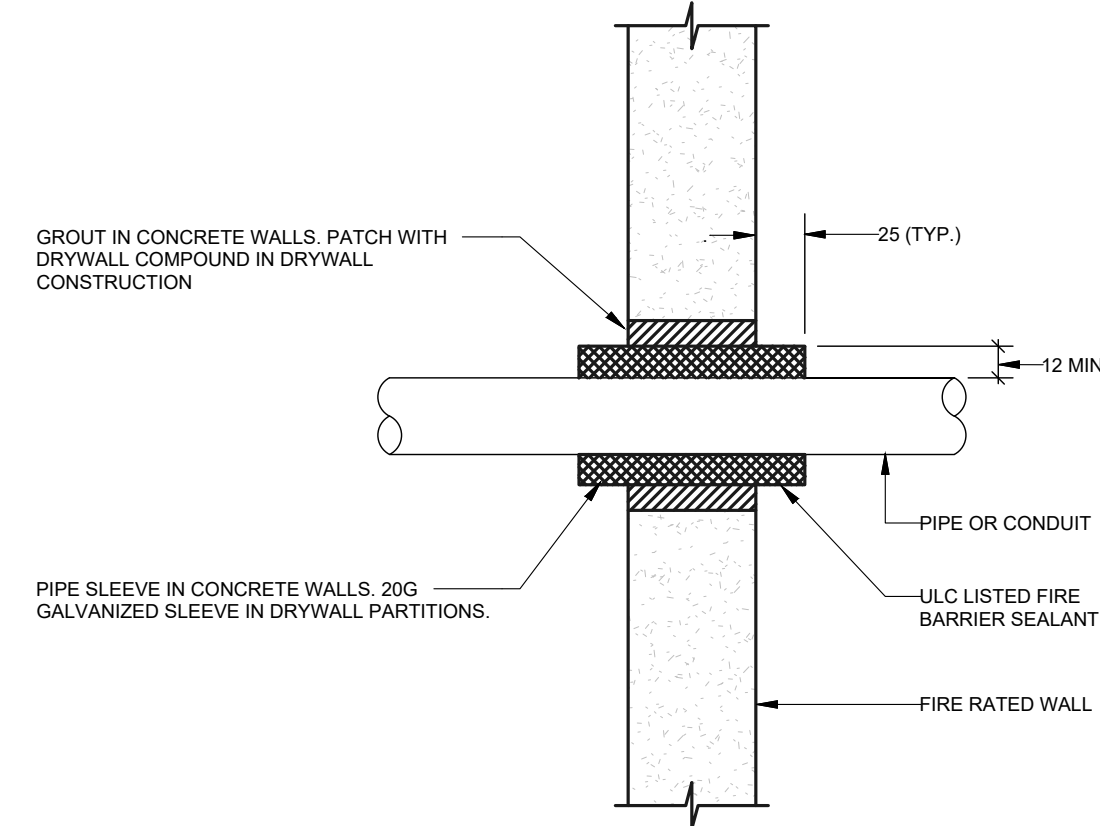




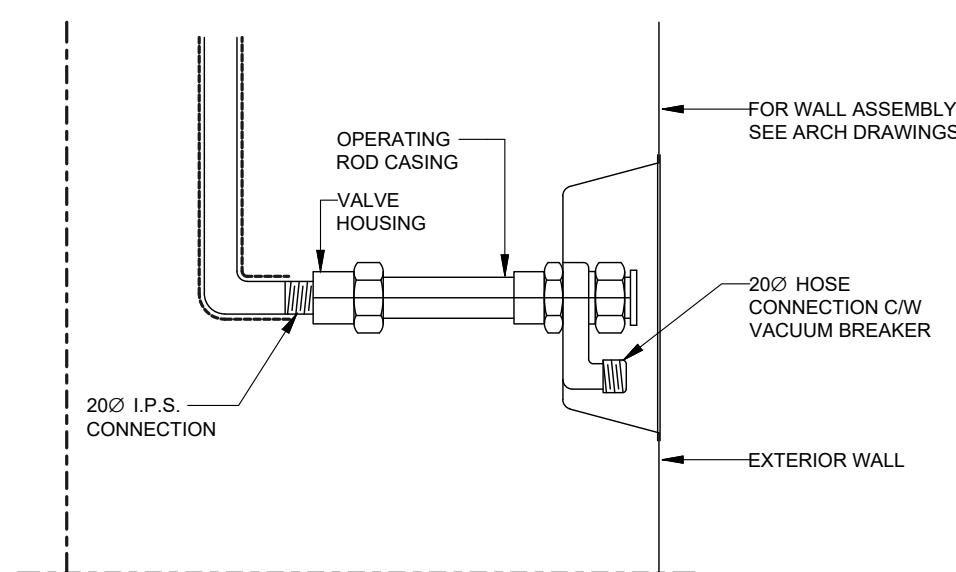
1 CONDENSATE DRAIN TO FUNNEL FLOOR DRAIN  
NOT TO SCALE



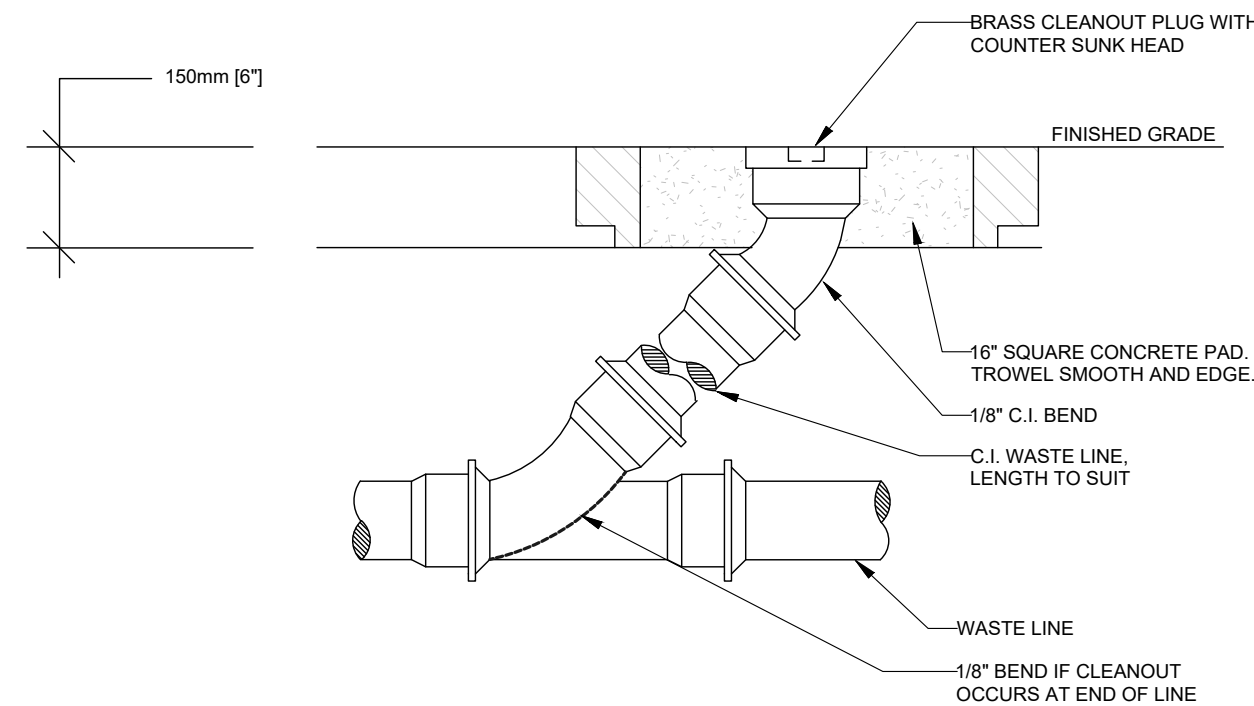
2 PLUMBING VENT ROOF PENETRATION  
NOT TO SCALE



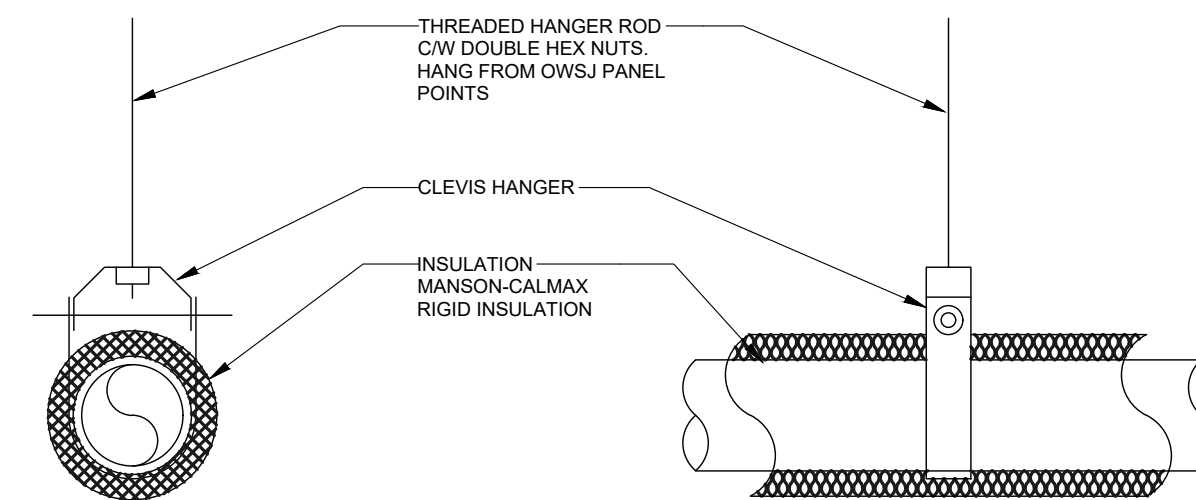
3 PIPE PENETRATION THROUGH FIRE RATED WALL  
NOT TO SCALE



4 NON-FREEZE HOSE BIBB PIPING  
NOT TO SCALE



5 CLEANOUT TO GRADE (COTG)  
NOT TO SCALE



PIPE SIZE	15 mm (1/2")	20 mm (3/4")	25 mm (1")	32 mm (1-1/4")	40 mm (1-1/2")	50 mm (2")	65 mm (2-1/2")	75 mm (3")	100 mm (4")	150 mm (6")
ROD SIZE			10 mm Ø (3/8")				15 mm Ø (9/16")	18 mm Ø (3/4")	20 mm Ø (7/8")	
MAX. ROD SPACING	1800 mm (6 FEET)	2100 mm (7 FEET)	2100 mm (7 FEET)	2700 mm (9 FEET)	2700 mm (9 FEET)	3000 mm (10 FEET)	3000 mm (10 FEET)	3600 mm (12 FEET)	4200 mm (14 FEET)	5100 mm (17 FEET)

6 PIPE HANGER SPACING  
NOT TO SCALE

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH'D

REVISIONS			PROJECT NORTH
THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.			

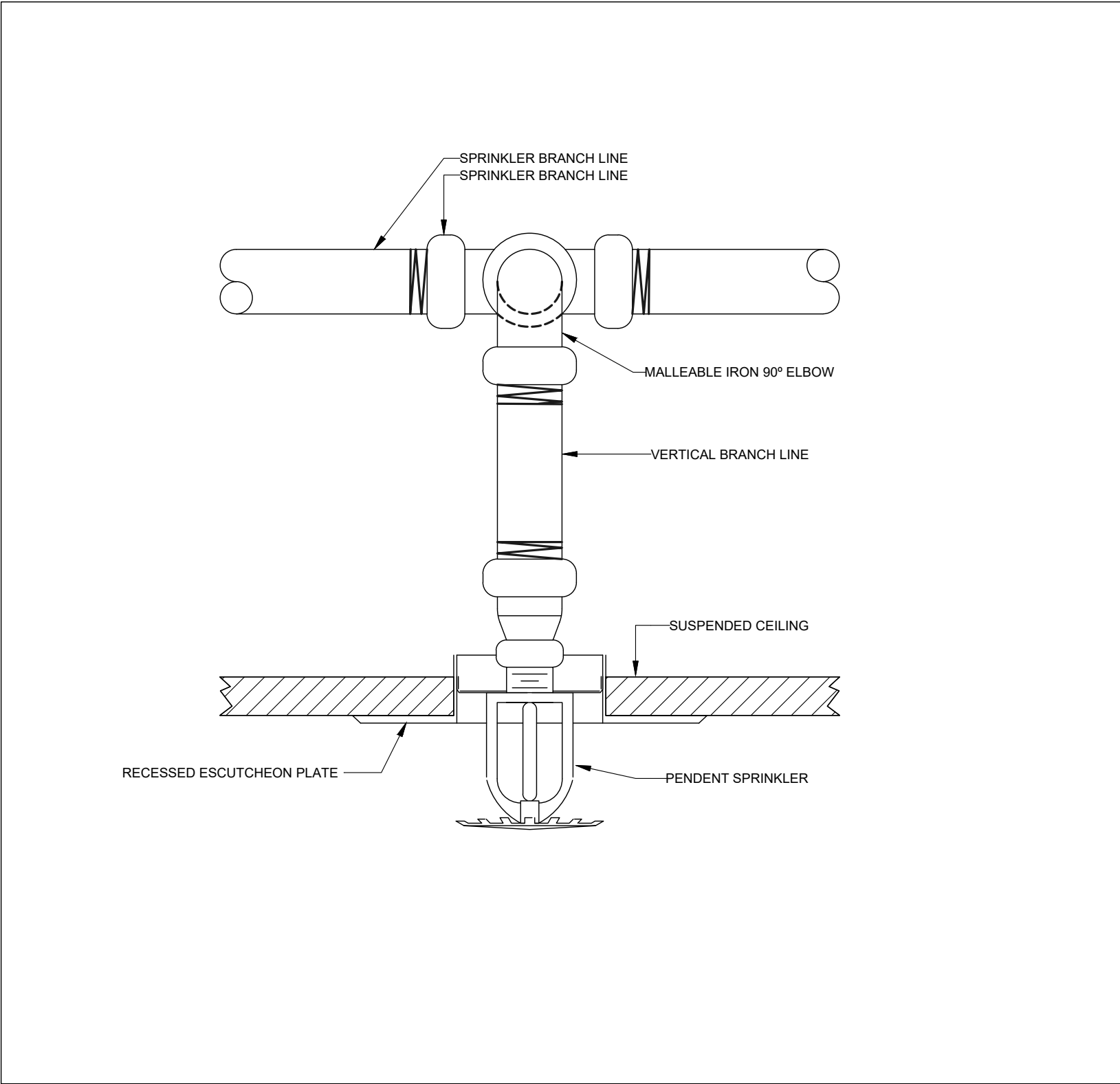
  
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

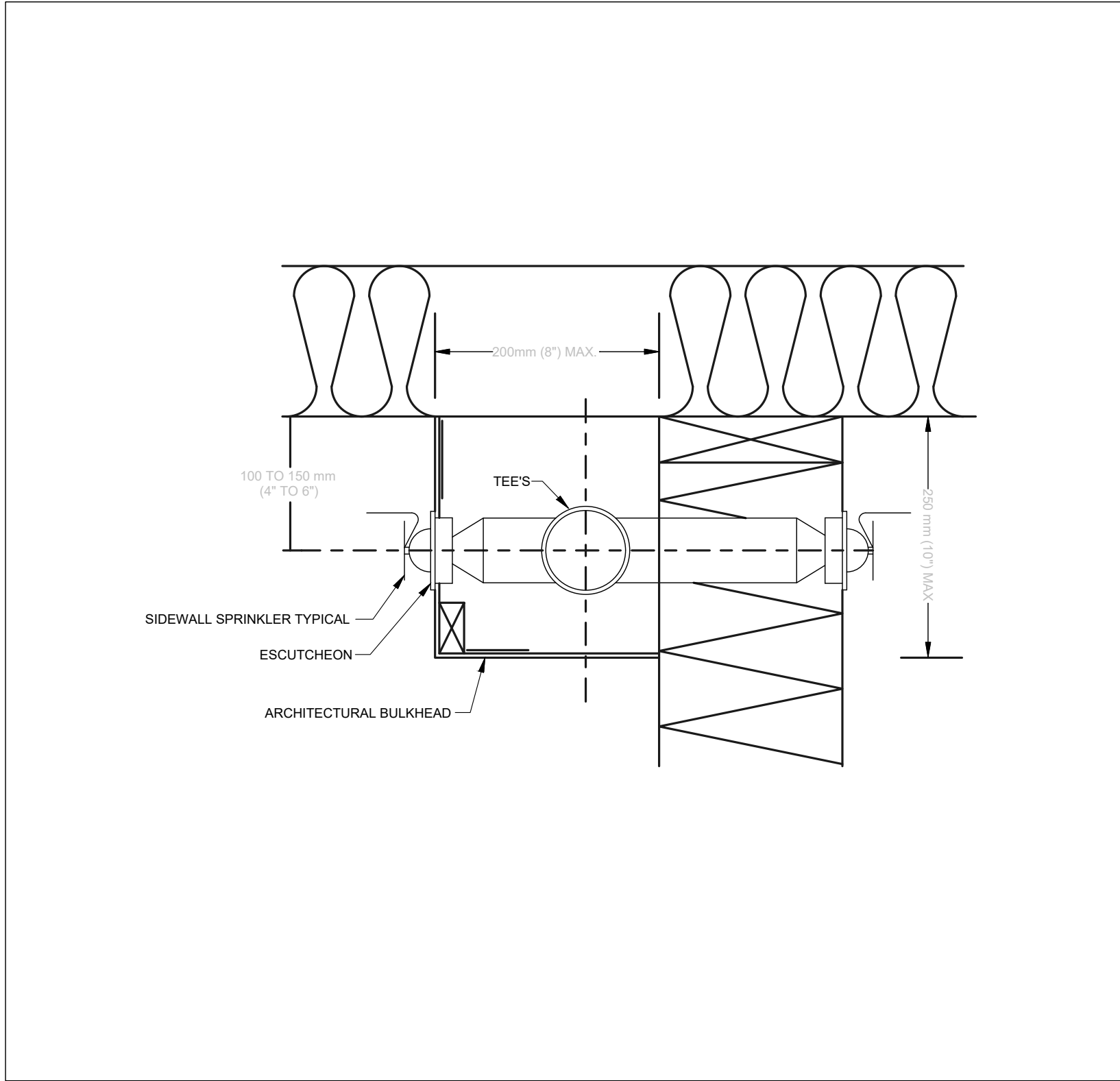
PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**MECHANICAL DETAILS**

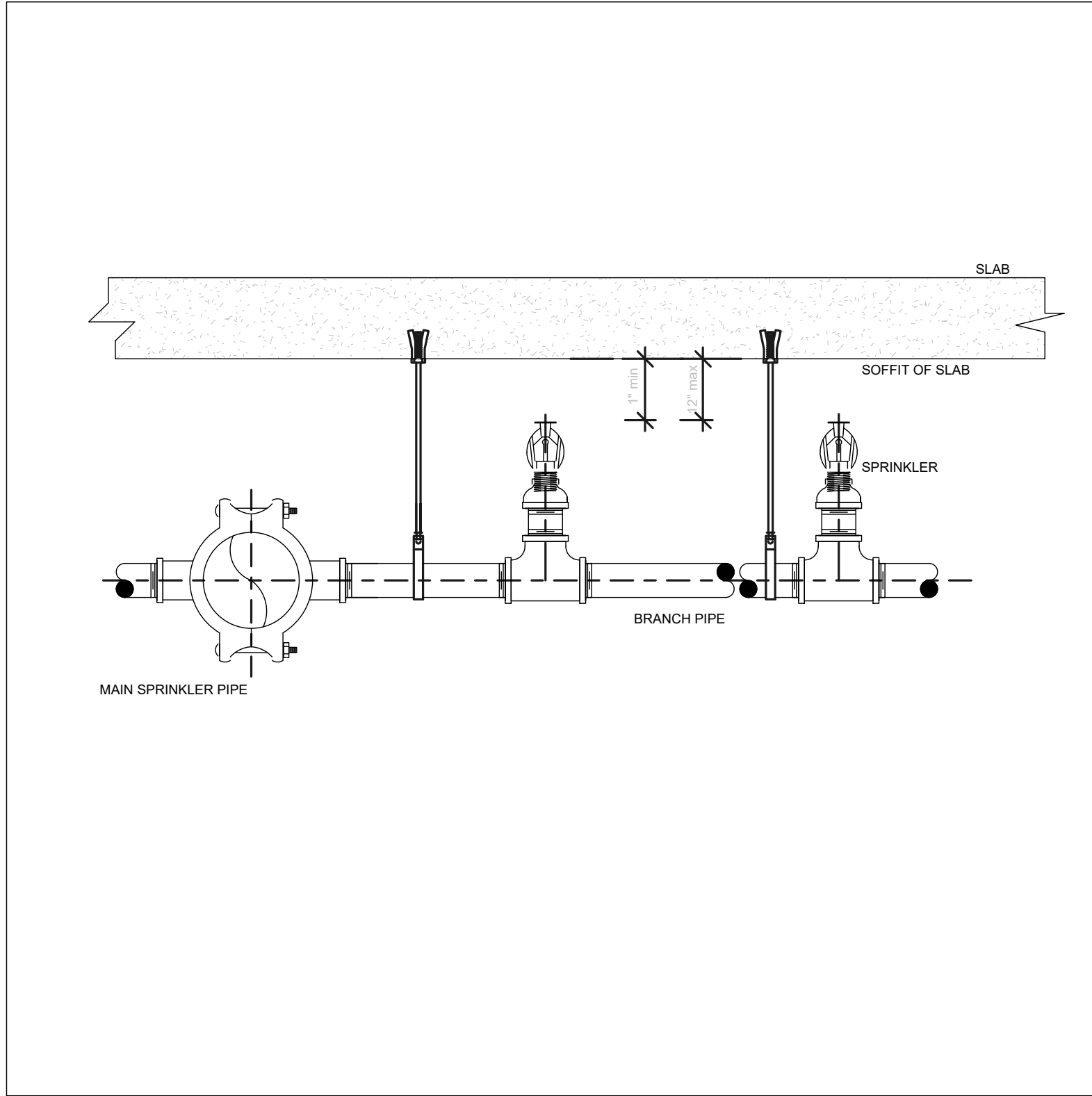
CHECKED ZH	PROJECT No. <b>CM-22-149</b>
SCALE AS SHOWN	DRAWING No. <b>M503</b>



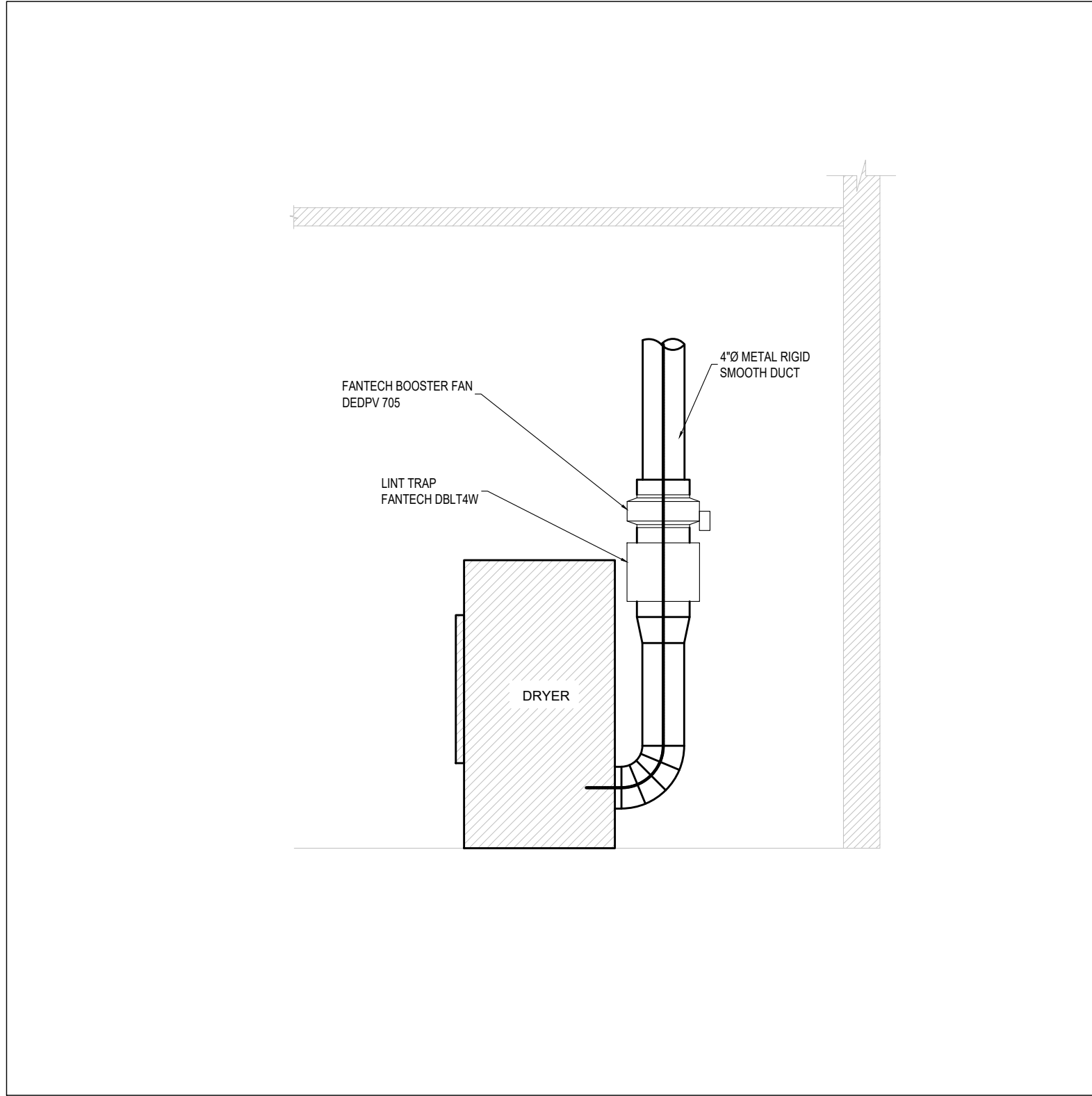
1 RECESSED PENIDENT SPRINKLER INSTALLAION  
NOT TO SCALE



2 SPRINKLER SIDEWALL BULKHEAD  
NOT TO SCALE



3 SPRINKLER HEAD (UPRIGHT)  
NOT TO SCALE



4 DRYER BOOSTER FAN DETAIL  
NOT TO SCALE

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
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REVISIONS		
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PROJECT NORTH		



**QUASAR**  
CONSULTING GROUP

250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
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PROJECT  
**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**MECHANICAL DETAILS**

CHECKED	ZH	PROJECT No. <b>CM-22-149</b>
SCALE	AS SHOWN	DRAWING No. <b>M504</b>



BASE BOARD/FORCED FLOW ELECTRIC HEATERS SCHEDULE						
UNIT TAG	LOCATION	BASIS OF DESIGN		HEATER CAPACITY (KW)	POWER (V/PHHz)	
		MANUFACTURER/MODEL	CONTROL			
BBH-1	PW FORESTRY	OUELLET OFM 0502	BUILT IN THERMOSTAT	2.0 KW	120/1/60	
BBH-2	PW FORESTRY	OUELLET OFM 0502	BUILT IN THERMOSTAT	2.0 KW	120/1/60	
FFWH-1	SADA STORAGE	OUELLET OAC02008T	BUILT IN THERMOSTAT	2.0 KW	208/1/60	
FFWH-2	SADA STORAGE	OUELLET OAC02008T	BUILT IN THERMOSTAT	2.0 KW	208/1/60	
FFWH-3	VESTIBULE	OUELLET OACT05000T	BUILT IN THERMOSTAT	3.0 KW	208/1/60	

EXHAUST FAN SCHEDULE											
UNIT TAG	MAKE	MODEL	SERVICE	LOCATION	AIR FLOW (LPS)	ESP (Pa)	FAN RPM	POWER SUPPLY		NOTES REMARKS	
								KW	POWER (V/PHHz)		
EF-1	GREENHECK	G-160-B	PW-CPD STORAGE	ROOF	1014	125	1140	0.372	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH. INTERLOCK WITH MUA-1 FOR OPERATION	
EF-2	GREENHECK	SP-B110	LAUNDRY	LAUNDRY	47	62.5	850	80 WATTS	120/1/60	C/W BACK DRAFT DAMPER, HANGING ROD, RAIN CAP, DISCONNECT SWITCH AND SCHEDULE TIMER SWITCH FOR OPERATION.	
EF-3	GREENHECK	G-140-B	PW CMS WORK SHOP	ROOF	755	125	1140	0.186	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. INTERLOCK WITH MUA-2 FOR OPERATION.	
EF-4	GREENHECK	G-180-VG	PW PALLET RACKING	ROOF	1415	125	1000	0.746	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. TO BE INTERLOCK WITH MUA-3 FOR OPERATION.	
EF-5	NEDERMAN	NCF 30/20	PW-CMS WELDING AREA	ROOF	944	600	1725	3.0	575/3/60	C/W INLET/OUTLET ADAPTER, INLET/OUTLET GUARD, VIBRATION ISOLATOR, MOUNTING BRACKET, INLET MOTORIZED DAMPER, AUTOMATIC FAN CONTROL WITH OPERATION BOX, SENSOR CLAMP AND CONTRACTOR / OVERLOAD. INTERLOCK WITH MUA-4	
EF-6	GREENHECK	G-100HP-VG	CHARGING STATION	ROOF	382	375	2500	0.373	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), BACK DRAFT DAMPER AND DISCONNECT SWITCH. SCHEDULE TIMER FOR OPERATION	
EF-7	GREENHECK	G-099-A	CSF-MO WORK SHOP	ROOF	283	375	1725	0.186	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. INTERLOCK WITH MUA-6.	
EF-8	GREENHECK	G-180-C	CS LARGE EQPT. STORAGE	ROOF	1332	125	860	0.373	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. INTERLOCK WITH MUA-5 FOR OPERATION	
EF-9	NEDERMAN	N40	CSF-MO WORK SHOP WELDING HOOD	ROOF	944	500	1725	1.5	575/3/60	C/W INLET/OUTLET ADAPTER, INLET/OUTLET GUARD, VIBRATION ISOLATOR, MOUNTING BRACKET, INLET MOTORIZED DAMPER, AUTOMATIC FAN CONTROL WITH OPERATION BOX, SENSOR CLAMP, HOOD SWITCH/LIGHT KIT AND CONTRACTOR / OVERLOAD. INTERLOCK WITH MUA-4	
EF-10	GREENHECK	G-080-D	PW WASTE MANAGEMENT	ROOF	71	125	1550	37.2 WATTS	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), BACK DRAFT DAMPER AND DISCONNECT SWITCH. SCHEDULE TIMER FOR OPERATION	

INDIRECT GAS FIRED-MAKEUP AIR UNIT													
UNIT TAG	MAKE	MODEL	SERVICE	SUPPLY FAN				GAS HEATING INPUT/OUT PUT (MBH)	TEMP-RISE (°F)	ELECTRICAL			UNIT WEIGHT (LBS)
				FLOW RATE (LPS)	ESP (Pa)	RPM	MOTOR (HP)			V/PHHz	MCA	MAX. BREAKER	
MAU-1	ENGINEERED AIR	DJS40/O	PW FORESTRY	1038	125	1625	2	275 / 223	94	575/3/60	8.60	15	1250
MAU-2	ENGINEERED AIR	DJS20/O	PW CMS WORKSHOP	755	125	1881	2	200 / 162	94	575/3/60	8.60	15	1000
MAU-3	ENGINEERED AIR	DJS40/O	PW PALLET RACKING	1415	125	1333	3	375 / 304	94	575/3/60	10.10	15	1250
MAU-4	ENGINEERED AIR	DJS40/O	CS FMO WELDING	944	125	1631	2	250 / 203	94	575/3/60	8.60	15	1200
MAU-5	ENGINEERED AIR	DJS40/O	PW PALLET RACKING	1510	125	1332	3	400 / 324	94	575/3/60	10.10	15	1250
MAU-6	ENGINEERED AIR	DJS40/O	CS FMO WELDING	944	125	1631	2	250 / 203	94	575/3/60	8.60	15	1200
NOTES: 1. PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH, HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. 2. 16" HIGH INSULATED ROOF CURB FROM FINISHED ROOF. 3. STAINLESS STEEL HEAT EXCHANGER 4. OUTDOOR AIR WEATHER HOOD, BIRD SCREEN & MOTORIZED DAMPER 5. FILTER SECTION TO BE C/W 2" MERV 8 PREFILTER AND 4" MERV 13 FINAL FILTER. 6. DISCHARGE AIR SENSOR													

SPLIT UNIT HEAT PUMPS																							
TAG (OUT DOOR/INDOOR)	MANUFACTURER	MODEL		SERVICE	LOCATION	AIR		REFRIGERANT TYPE	COOLING					HEATING				ELECTRICAL			REMARKS		
		OUTDOOR	INDOOR			AIRFLOW (L/s)	ESP (Pa)		TOTAL	SENSIBLE	LATENT	SET POINT D.B. (°C)	SET POINT W.B. (°C)	S.A.T. D.B. (°C)	S.A.T. W.B. (°C)	CAPACITY (kW)	SET POINT D.B. (°C)	SET POINT W.B. (°C)	S.A.T. (°C)	V/PH/Hz		MCA(A)	MOP(A)
SAC-1	mitsubishi	-	PKFY-P12NL MU-E	PW-OMM BSCI	STORAGE	140	-	R410A	3.52			25				3.95	18.00			208-230/60/1	0.24	15	WALL MTD
SAC-2	mitsubishi	-	PKFY-P12NL MU-E	PW-OMM OFFICE	STORAGE	140	-	R410A	3.52			25				3.95	18.00			208-230/60/1	0.24	15	WALL MTD
SAC-3	mitsubishi	-	PEFY-P24NM AU-E3	PW-TECH-SUPPORT-DUCTED	STORAGE	416	149	R410A	7.03			25				7.91	18.00			208-230/60/1	2.73	30	HORIZONTAL-DUCTED
SAC-4	mitsubishi	-	PKFY-P12NL MU-E	PW-CMS INSTRUMENTATION	STORAGE	140	-	R410A	3.52			25				3.95	18.00			208-230/60/1	0.24	15	WALL MTD
SCU-1	mitsubishi	PUMY-HP36N KMU2	-	-	STORAGE	-	-	R410A	10.55							12.31				208-230/60/1	36	44	ROOF MOUNTED
SCU-2	mitsubishi	PUMY-HP36N KMU2	-	-	STORAGE	-	-	R410A	10.55							12.31				208-230/60/1	36	44	ROOF MOUNTED
COMPLETE WITH 1. PROVIDE WEATHER PROOF DISCONNECT SWITCH FOR OUTDOOR UNIT AND PROVIDE DISCONNECT SWITCH FOR EACH INDOOR UNIT. 2. PROVIDE REFRIGERANT PIPING(LIQUID LINE: 6.35MM AND GAS LINE: 12.7MM)AND CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNIT. 3. PROVIDE WIND SCREEN AND ULTRA LOW AMBIENT COOLING OPERATION TO -20°F(-29°C). 4. INDOOR UNIT ROOM THERMOSTAT CONTROLLER 5. INSTALL THE OUTDOOR UNIT ON 18" HIGH FOOT STAND. STAND SHOULD BE SECURED THE BASE CONCRETE PADS C/W INBUILT CONDENSATE PUMP																						6. INDOOR UNIT TO BE	

GRILLES AND DIFFUSERS SCHEDULE					
TAG	MAKE	MODEL	TYPE	SIZE	
A	E.H.PRICE	620D	LOUVERED FACE SUPPLY AIR	AS INDICATED ON PLAN	
B	E.H.PRICE	630	LOUVERED RETURN AIR GRILLE	AS INDICATED ON PLAN	
C	E.H.PRICE	80	EGG CRATE EXHAUST AND RETURN AIR GRILLE	AS INDICATED ON PLAN	
D	E.H.PRICE	SCD	SQUARE CONE DIFFUSER	AS INDICATED ON PLAN	

RESIDENTIAL DRYER BOOSTER FAN SCHEDULE													
UNIT TAG	LOCATION	MAKE	MODEL	SERVICE	AIR FLOW (CFM)	ESP (IN)	MAX AMP	MOTOR (WATTS)	FAN RPM	POWER SUPPLY	DUCT CONNECTION	WEIGHT (LB)	NOTES REMARKS
DBF-1	LAUNDRY CLOSET	FANTECH	DEDPV 705	LAUNDRY DRYER	120	0.50	0.75	70	2600	115/1/60	4"	13.3	C/W DRYER LINT TRAP AND PRESSURE SENSOR FOR OPERATION

MOTORIZED DAMPER SCHEDULE									
TAG	LOCATION	MAKE AND MODEL	SIZE WxH (MM)	AIR FLOW (LPS)	ACTUATOR				
					MFGR	MODEL	VOLTAGE	POWER	
MD-1	PW-OMM WORK SHOP	TAMCO/9000	450x450	1014		BELIMO	LF-120-S	120/1/60	7.5 VA
MD-2	PW-MM WORK SHOP	TAMCO/9000	400x400	755		BELIMO	LF-120-S	120/1/60	7.5 VA
MD-3	PW-LARGE EQUIP	TAMCO/9000	500x500	1415		BELIMO	LF-120-S	120/1/60	7.5 VA
MD-4	WASHBAY LOWER	TAMCO/9000	500x500	1415		BELIMO	LF-120-S	120/1/60	7.5 VA
MD-6	CS-FMO WORK SHOP	TAMCO/9000	300x250	283		BELIMO	LF-120-S	120/1/60	7.5 VA
MD-7	CS- LARGE EDP. STORAGE	TAMCO/9000	450x450	1133		BELIMO	LF-120-S	120/1/60	7.5 VA

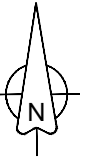

DOMESTIC HOT WATER SCHEDULE										
UNIT TAG	MAKE	MODEL	SERVICE	LOCATION	INPUT (KW)	STORAGE CAP	FLOW RATE AT 70°F RISE (LPM)	ELECTRIC		WEIGHT (KG)
								FLA (A)	POWER (V/PHHz)	
DHW-1	A.O. SMITH	SSET-70E	CS-FMO WORKSHOP	WALL MOUNTED	7	0	2	29.000	240/1/60	4

AIR COMPRESSOR									
TAG	MAKE	MODEL	CAPACITY (LPS)	PRESSURE (Kpa)	MOTOR (KW)	POWER SUPPLY	WEIGHT (KG)	REMARKS	
CA-1	INGERSOLL RAND	R7.5I-TAS	11.44	1310	7.5	COMP - 575/3/60 AIR	800	C/W BUILT IN 80 GALLON HORIZONTAL TANK, AIR DRYER, FILTER, STARTER,PRV AND CONTROLLER	

GAS FIRED INFRARED TUBE HEATER SCHEDULE									
UNIT TAG	AREA SERVED	MAKE	MODEL	CAPACITY(KW)	LENGTH(M)	V/PHHz	FLU & AIR VENT(MM)	WEIGHT(KG)	REMARKS
IR-1	WASH BAY	SCHWANK	STW-JZ-80-30	23.4	9.5	120/1/60	100	69.85	C/W MOISTURE PROOF THERMOSTAT-NEMA 4X THERMOSTAT
IR-2	WASH BAY	SCHWANK	STW-JZ-155-60	44	18.4	120/1/60	100	128	C/W MOISTURE PROOF THERMOSTAT-NEMA 4X THERMOSTAT
NOTES: 1. PROVIDE 100Ø COMBUSTION AIR INTAKE WITH WALL /ROOF CAP. 100Ø HORIZONTAL WALL OR ROOF FLUE B-VENT WITH FLUE VENT TERMINAL, AND TRANSITION FITTING TO SUIT, MATERIAL FOR VENT AND COMBUSTION AIR PER MANUFACTURER RECOMMENDATION. 2. INSTALLATION OF HEATER PER MANUFACTURER AND LOCAL CODE. 3. PROVIDE LION CHAIN AND HANGERS TO SUSPEND FROM THE STRUCTURE.									

INTAKE AIR VENTILATOR							
UNIT TAG	MAKE	MODEL	SERVICE	LOCATION	AIR FLOW (LPS)	PRES. DRP (PA)	REMARKS
AH-1	GREENHECK	GRSI-30	WASH BAY LOWER	ROOF	1415	22	COMPLETE WITH 450MM HIGH MATCHING INSULATED ROOF CURB AND MOTORIZED DAMPER

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9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
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5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
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 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM			
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-22-149@QUASARCG.COM			
PROJECT <b>HWP WAREHOSE UPGRADE</b> <b>145 HARRY WALKER PARKWAY</b> <b>NEWMARKET</b> ON L3Y 7B3			
TITLE <b>MECHANICAL SCHEDULE</b>			
CHECKED <b>ZH</b>		PROJECT No. <b>CM-22-149</b>	
SCALE <b>AS SHOWN</b>		DRAWING No. <b>M600</b>	



ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
LINETYPES	
	NEW WORK
	WORK TO BE DEMOLISHED, OR REMOVED
	EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN
	FUTURE WORK (NOT IN SCOPE)
	EXTENTS OF FIRE ALARM ZONE, WET LOCATION, OR OTHER AREA AS NOTED ON PLANS
ABBREVIATIONS	
E	EXISTING TO REMAIN
R	EXISTING TO BE DEMOLISHED/REMOVED
ER	EXISTING IN RELOCATED POSITION
RR	REMOVE AND RELOCATE
C	CEILING MOUNTED CONNECTION
W	WALL MOUNTED CONNECTION
F	FLOOR MOUNTED CONNECTION
℄	CENTRE LINE
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
O/C	OVER COUNTER
U/C	UNDER CABINET
U/F	UNDER RAISED FLOOR
CCT	CIRCUIT
CTE	CONNECT TO EXISTING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
TL	TWIST LOCK
TR	TAMPER RESISTANT
WG	WIRE GUARD
WP	WEATHER PROOF
EX	EXPLOSION PROOF
HZ	HAZARDOUS LOCATION
RI	ROUGH-IN ONLY
NIC	NOT IN CONTRACT
SIM.	SIMILAR TO
TYP.	TYPICAL
ABBREVIATIONS - CODES AND STANDARDS	
OBC	ONTARIO BUILDING CODE
OESC	ONTARIO ELECTRICAL SAFETY CODE
OFC	ONTARIO FIRE CODE
ABBREVIATIONS - CEILING TYPES	
ACT	ACOUSTIC CEILING TILE (T-BAR)
EXP	EXPOSED CEILING
GB	GYPSUM BOARD CEILING
OVSJ	OPEN WEB STEEL JOISTS
PCC	PAINTED OR POPCORN CEILING ON EXPOSED CONCRETE
WD	WOOD CEILING
ANNOTATIONS	
CL	CLOSET
WR	WASHROOM
PLUMBING	
PTP	ELECTRONIC TRAP PRIMER
PSC	PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS)
HVAC	
	THERMOSTAT OR TEMPERATURE SENSOR
	TIMER CONTROL
BBH	ELECTRIC BASEBOARD HEATER (BBH)
FFH	FORCED FLOW HEATER
ERV	ENERGY RECOVERY VENTILATOR
HRU	HEAT RECOVERY UNIT
MUA	MAKE-UP AIR UNIT
CONDUIT AND BOXES	
	CONDUIT WITH END BUSHING
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT CONTINUES
	JUNCTION BOX
	PULL BOX
	HAND HOLE
CONNECTIONS TO EQUIPMENT	
DW	DISHWASHER
FR	FRIDGE
MW	MICROWAVE
HD	HAND DRYER. ALLOW UP TO 208V-1PH-20A
	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.
	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.
	SYSTEM FURNITURE WALL FEED FOR POWER AND TELECOMMUNICATIONS UNLESS NOTED OTHERWISE. 'C' ADJACENT TO SYMBOL DENOTES CEILING FEED, 'F' ADJACENT TO SYMBOL DENOTES FLOOR FEED.
W	ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.
	CONNECTION TO SINGLE PHASE MOTOR, HP (KW) AS NOTED. PROVIDE LOCAL DISCONNECT.
	THREE PHASE MOTOR, HP (KW) AS NOTED. PROVIDE LOCAL DISCONNECT.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	PHOTOCELL SENSOR. 'PC' DENOTES CLOSED LOOP PHOTOCELL CONTROL, 'PO' DENOTES OPEN LOOP PHOTOCELL CONTROL.
	CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED'. UT DENOTES 'ULTRASONIC' (OR MICROPHONIC). DT DENOTES 'DUAL TECHNOLOGY'. 'OS' DENOTES UNKNOWN TECHNOLOGY.
	WALL MOUNTED OCCUPANCY SENSOR.
DISTRIBUTION EQUIPMENT	
	TRANSFORMER, PLAN VIEW
	SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD
	RECESSED RECEPTACLE AND LIGHTING PANELBOARD
	DISTRIBUTION PANELBOARD
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	CONTACTOR
	LOOSE STARTER. COORDINATE STARTING CHARACTERISTIC WITH EQUIPMENT REQUIREMENTS.
	COMBINATION STARTER.
VFD	ADJACENT TO STARTER, DENOTES VARIABLE FREQUENCY DRIVE
POWER RECEPTACLES AND BOXES	
	120V U-GROUND DUPLEX RECEPTACLE.
	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
	120V U-GROUND 20A DUPLEX RECEPTACLE.
	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
	120V U-GROUND DUPLEX RECEPTACLE - AUTOMATICALLY CONTROLLED (ASHRAE 90.1-2013, 8.4.2).
	120V U-GROUND 20A DUPLEX RECEPTACLE - AUTOMATICALLY CONTROLLED (ASHRAE 90.1-2013, 8.4.2).
	120V U-GROUND DUPLEX RECEPTACLE - HALF OF RECEPTACLE AUTOMATICALLY CONTROLLED (ASHRAE 90.1-2013, 8.4.2).
	SPLIT RECEPTACLE. IF MANUALLY CONTROLLED, SHOWN CONNECTED TO SWITCH.
	SPLIT RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
	120V U-GROUND QUAD RECEPTACLE.
	INDICATES RECEPTACLE COMPLETE WITH ONE TYPE A AND ONE TYPE C USB CHARGING PORTS.
	14-30R RECEPTACLE FOR LAUNDRY DRYER, OR OTHER RECEPTACLE AS NOTED. PROVIDE 40A/2P BREAKER TO SUIT. MOUNT AT 130 mm AFF.
	14-50R RECEPTACLE FOR ELECTRIC RANGE, OR OTHER RECEPTACLE AS NOTED. PROVIDE 40A/2P BREAKER TO SUIT. MOUNT AT 130 mm AFF.
	SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN.
	SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN.
	FLOOR RECEPTACLE OR RECEPTACLE IN FLOOR BOX (POWER ONLY)
	SERVICE POLE. PROVIDE POWER TO JUNCTION BOX IN CEILING SPACE ABOVE. DEVICES ON POLE AS NOTED ON PLANS.
FB1	ADJACENT TO RECEPTACLE, DENOTES FLOOR BOX TYPE
*	ADJACENT TO RECEPTACLE, DENOTES DEVICE CONNECTED TO EMERGENCY POWER
LIGHTING FIXTURES	
SYMBOLS IN ACCORDANCE WITH IES DG-3-00 AND IES HB-10-11 WHERE NOT DETAILED OTHERWISE HERE.	
REFER TO LIGHTING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE REQUIREMENTS.	
	LINEAR LUMINAIRE, SURFACE MOUNTED TO CEILING
	LINEAR LUMINAIRE, RECESSED IN CEILING
	LINEAR LUMINAIRE, SUSPENDED; PENDANT, CHAIN, STEM, OR AIRCRAFT CABLE HUNG TO SUIT APPLICATION, OR AS NOTED IN SCHEDULE. 'X', WHEN USED DENOTES POWER FEED LOCATION.
	LINEAR LUMINAIRE, WALL MOUNTED
	AS ABOVE, CONNECTED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT AS INDICATED.
	ROUND OR SQUARE DOWNLIGHT, RECESSED
	RECESSED DOWNLIGHTS, CONNECTED TO EMERGENCY OR NIGHT LIGHT CIRCUIT
	ROUND SUSPENDED LUMINAIRE
	WALL SCENCE OR OTHER WALL MOUNTED LUMINAIRES.
	CONNECTED TO EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR)
EM	LUMINAIRE CONNECTED TO NON-EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR)
A, B, Z1, Z2, ETC.	DENOTES ZONING/CIRCUITING ASSIGNMENTS FOR LUMINAIRES AND CONTROLS IN THE SAME SPACE
EMERGENCY LIGHTING	
REFER TO EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS.	
	CEILING OR WALL MOUNTED SINGLE FACE ILLUMINATED EXIT SIGN (RUNNING MAN). SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	CEILING OR WALL MOUNTED DUAL FACE ILLUMINATED EXIT SIGN (RUNNING MAN). SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	WALL MOUNTED COMBINATION EXIT SIGN (RUNNING MAN) AND EMERGENCY LIGHTING BATTERY AND LAMP HEAD UNIT. SHADED AREA INDICATES ILLUMINATED FACE.
SL	DENOTES 'SELF-LUMINOUS' EXIT SIGN
PL	PHOTOLUMINOUS EXIT SIGN
	EMERGENCY LIGHTING BATTERY UNIT, WITH AND WITHOUT HEADS.
	ONE, TWO, AND THREE HEAD WALL MOUNTED EMERGENCY LIGHTING REMOTE UNITS.
	ONE, TWO, AND THREE HEAD CEILING MOUNTED EMERGENCY LIGHTING REMOTE UNITS.
	RECESSED EMERGENCY REMOTE HEAD.
EM	DENOTES "EMERGENCY"

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
F	ADJACENT TO SYSTEM FURNITURE FEED, DENOTES FLOOR SYSTEM FURNITURE FEED FOR COMMUNICATIONS.
C	ADJACENT TO SYSTEM FURNITURE FEED, DENOTES CEILING SYSTEM FURNITURE FEED FOR COMMUNICATIONS (SERVICE POLE OR DROP CORD AS NOTED).
	CABLE TRAY (LADDER TYPE)
	CABLE TRAY (BASKET TYPE)
	WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AND 1D UNLESS NOTED OTHERWISE.
	WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLESS NOTED OTHERWISE.
	WALL MOUNTED DATA OUTLET. PROVIDE 1D UNLESS NOTED OTHERWISE.
	WALL MOUNTED TELEVISION OUTLET.
	VOICE, DATA, OR TV OUTLET AS DESCRIBED ABOVE, MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
B	ADJACENT TO COMMUNICATIONS OUTLET, INDICATES BLANK-OFF PLATE.
HDMI	HDMI OUTLET.
AV	AUDIO VIDEO GANG, AS NOTED.
WAP	WIRELESS ACCESS POINT (WIFI)
S	AUDIO VISUAL SYSTEM SPEAKER, CEILING MOUNTED.
H+S	AUDIO/VISUAL SYSTEM SPEAKER, WALL MOUNTED.
PA	PUBLIC ADDRESS SYSTEM SPEAKER, CEILING MOUNTED.
PA	PUBLIC ADDRESS SYSTEM SPEAKER, WALL MOUNTED.
PA	PUBLIC ADDRESS SYSTEM SPEAKER, WALL MOUNTED.
HS	PUBLIC ADDRESS SYSTEM HANDSET
ACS	PUBLIC ADDRESS SYSTEM ADMIN CONTROL CONSOLE
H+AVOL	PUBLIC ADDRESS SPEAKER VOLUME CONTROL SWITCH.
IS	INTERCOM
IDS	VIDEO INTERCOM SYSTEM DOOR CALL STATION
IMS	VIDEO INTERCOM SYSTEM MASTER STATION
IDC	INSULATION DISPLACEMENT CONNECTION
CLOCK	CLOCK.
GPS	GPS CLOCK SYSTEM MASTER TRANSMITTER
GPS	GPS CLOCK SYSTEM GPS RECEIVER
GPS	GPS CLOCK SYSTEM SATELLITE TRANSMITTER (REPEATER)
GPS	GPS CLOCK SYSTEM RECEIVER SWITCH
ACCESS CONTROL AND DOOR HARDWARE	
CR	CARD READER
DC	DOOR CONTACT
DO	OVERHEAD DOOR CONTACT
ES	ELECTRIC STRIKE
PTH	POWER TRANSFER HINGE
KS	KEY SWITCH
ML	ELECTROMAGNETIC LOCK
INTRUSION DETECTION	
	GLASS BREAK (GB)
KP	KEYPAD (KP)
VIDEO SURVEILLANCE	
	CCTV CAMERA - 1 DATA DROP PER CAMERA
C/P	CCTV CAMERA, CEILING OR POLE MOUNTED
H-C/P	CCTV CAMERA, WALL MOUNTED 1 DATA DROP PER CAMERA
PTZ	PAN-TILT-ZOOM
DURESS SYSTEM	
DB	DURESS BUTTON (MOUNTED ON UNDERSIDE OF TABLETOP)
DB-W	WALL MOUNTED DURESS BUTTON WITH POLYCARBONATE ANTI-TAMPER COVER
	DURESS SYSTEM STROBE LIGHT
FIRE DETECTION AND ALARM - GENERAL	
CACF	CENTRAL ALARM AND CONTROL FACILITY
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAAG	FIRE ALARM ACTIVE ANNUNCIATOR C/W GRAPHIC
FAPG	FIRE ALARM PASSIVE GRAPHIC
DGP	DATA GATHERING PANEL
FAMP	FIRE ALARM ULC MONITORING PANEL
FAZ	FIRE ALARM ZONE
FSZ	FIRE ALARM SUPERVISORY ZONE
FDSPCP	FIRE DETECTION, SUPPRESSION, AND PRE-ACTION CONTROL PANEL
FDSCP	FIRE DETECTION AND SUPPRESSION CONTROL PANEL
	FIRE ALARM PANEL (FACP, FAAP, FAMP) AS DENOTED ON PLANS.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	SAME AS ABOVE, WALL MOUNTED
HT	ADJACENT TO HEAT DETECTOR, DENOTES 'HIGH TEMPERATURE', 94 DEGREES C (200 DEGREES F) OR AS NOTED ON PLANS.
LHD	ADJACENT TO HEAT DETECTOR SYMBOL, DENOTES 'LINEAR HEAT DETECTION CABLE'.
	HEAT DETECTOR - 58 DEGREES C (135 DEGREES F) FIXED TEMPERATURE, NON-RESTORABLE
	HEAT DETECTOR - 94 DEGREES C (200 DEGREES F) FIXED TEMPERATURE, NON-RESTORABLE
	LINEAR HEAT DETECTION CABLE
FS	FLOW SWITCH
FIRE DETECTION AND ALARM - SUPERVISORY DEVICES	
LT	LOW TANK LEVEL
LP	LOSS OF POWER
LT	LOW TEMPERATURE
PS	PRESSURE SWITCH
SV	SUPERVISED VALVE
FMP	FIRE ALARM MONITORING POINT, REFER TO FLOOR PLANS FOR DETAILS.
FIRE DETECTION AND ALARM - SIGNALLING DEVICES	
	FIRE ALARM BELL, WALL MOUNTED.
C	ADJACENT TO BELL OR HORN, DENOTES CEILING MOUNTED.
	FIRE ALARM HORN
M	ADJACENT TO FIRE ALARM HORN, DENOTES 'MINI' HORN
	FIRE ALARM HORN/STROBE, WALL MOUNTED.
	FIRE ALARM EVACUATION SPEAKER, CEILING MOUNTED
	FIRE ALARM EVACUATION SPEAKER, COMPLETE WITH STROBE LIGHT, CEILING MOUNTED
	FIRE ALARM EVACUATION SPEAKER, WALL MOUNTED
	FIRE ALARM EVACUATION SPEAKER COMPLETE WITH STROBE LIGHT, WALL MOUNTED
SS	SILENCE SWITCH
	FIRE ALARM WALL MOUNTED STROBE LIGHT
FIRE DETECTION AND ALARM - VOICE COMMUNICATION DEVICES	
FF	EMERGENCY TELEPHONE FOR FIREFIGHTER'S USE
FIRE DETECTION AND ALARM - OTHER DEVICES	
ED	END OF LINE DEVICE
WG	WIRE GUARD
DNE	"DO NOT ENTER" SIGN
KS	KEY SWITCH FOR FIREFIGHTER CONTROL OF ELEVATOR RECALL, OR AS NOTED
IM	ISOLATOR MODULE
IR	OUTPUT RELAY, FUNCTION AS INDICATED
CM	CONTROL MODULE
MM	MONITOR MODULE
HD	MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPEN")
RS	FIRE SUPPRESSION RELEASING STATION
	FIRE SUPPRESSION ABORT STATION
SINGLE LINE DIAGRAM	
	AIR CIRCUIT BREAKER
	MOLDED CASE CIRCUIT BREAKER
	DISCONNECT (UNFUSED)
	DISCONNECT (FUSED)
	FUSE
	METERING CABINET
	BUS DUCT
	TRANSFORMER
	GENERATOR
	AUTOMATIC TRANSFER SWITCH
	AUTOMATIC TRANSFER SWITCH C/W SINGLE SIDED BYPASS ISOLATION
	AUTOMATIC TRANSFER SWITCH C/W DOUBLE SIDED BYPASS ISOLATION
ATS	AUTOMATIC TRANSFER SWITCH
C	CONTACTOR
DP	DISTRIBUTION PANELBOARD
FTL	FEED THROUGH LUGS
LP	LIGHTING PANELBOARD
MCB	MOBILE CONNECTION BOX
MCC	MOTOR CONTROL CENTRE
MTS	MANUAL TRANSFER SWITCH
RP	RECEPTACLE PANELBOARD
SPD	SURGE PROTECTIVE DEVICE
STS	STATIC TRANSFER SWITCH
SWBD	SWITCHBOARD
TX	TRANSFORMER
UPS	UNINTERRUPTIBLE POWER SUPPLY (DEVICE POWERED BY UPS)

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
FIRE DETECTION - INITIATION DEVICES	
	MANUAL PULL STATION (MPS)
LX	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION C/W POLYCARBONATE (LEXAN) COVER.
WG	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION C/W WIRE GUARD COVER.
A	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS OR DETECTOR, DENOTES DEVICE C/W AUXILIARY CONTACT.
	PHOTOELECTRIC SMOKE DETECTOR
	SAME AS ABOVE, WALL MOUNTED
SA	WHEN ADJACENT TO PHOTOELECTRIC SMOKE DETECTOR, INDICATES RESIDENTIAL SMOKE ALARM
	RESIDENTIAL SMOKE ALARM, 120 VOLT, COMPLETE WITH STROBE AND INTEGRAL CARBON MONOXIDE DETECTION.
	SAME AS ABOVE, WALL MOUNTED
	DUCT MOUNTED SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
VESDA	VERY EARLY SMOKE DETECTING APPARATUS
BSDT	BEAM SMOKE DETECTOR TRANSMITTER
BSDR	BEAM SMOKE DETECTOR RECEIVER (OR REFLECTOR)
ASD	ASPIRATING SMOKE DETECTOR
	HEAT DETECTOR - 58 DEGREES C (135 DEGREES F) FIXED TEMPERATURE AND RATE OF RISE, RESTORABLE
LIGHTING CONTROLS	
REFER TO SPECIFICATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS	
HAS	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.
HASW	3-WAY SWITCH
DIM	ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.
K	ADJACENT TO SWITCH, DENOTES KEY SWITCH.
T	ADJACENT TO SWITCH, DENOTES COUNTDOWN TIMER SWITCH
AT	ADJACENT TO SWITCH, DENOTES ASTRONOMICAL TIMER SWITCH
DS	ADJACENT TO SWITCH, DENOTES DOOR SWITCH
PIR	PASSIVE INFRARED SENSOR
DT	DUAL TECHNOLOGY SENSOR
UT	ULTRASONIC SENSOR
OS	SENSOR (TYPE UNKNOWN)
M	ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL LUMINAIRES IN A ROOM OR SPACE, OR AS NOTED.
	WALL MOUNTED SWITCH/OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED'. DT DENOTES DUAL PASSIVE INFRARED/ULTRASONIC. LINE VOLTAGE TO SUIT CONTROLLED CIRCUIT, OR AS NOTED.
RP	RELAY PANEL
PP	POWER PACK
SC	SCENE CONTROLLER.
	PHOTOCELL SENSOR.
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.	

Sheet List Table	
Sheet Number	Sheet Title
E-001	ELECTRICAL LEGENDS AND DRAWINGS LIST
E-002	EV CHARGER SITE PLAN
E-100	GROUND FLOOR POWER AND SYSTEMS - OVERALL
E-101	EXISTING POWER & SYSTEMS PLAN - MAIN FLOOR
E-102	POWER & SYSTEMS - PUBLIC WORKS
E-103	POWER & SYSTEMS - PUBLIC WORKS LEVEL 2
E-104	POWER AND SYSTEMS -CORPORATE SERVICES
E-105	POWER AND SYSTEMS- MEZZANINE LEVEL
E-106	POWER AND SYSTEMS PLAN - ELECTRICAL ROOM
E-200	PUBLIC WORKS DEMOLITION LIGHTING PLAN - MAIN FLOOR
E-201	PUBLIC WORKS NEW LIGHTING PLAN - MAIN FLOOR
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E-203	NEW LIGHTING LAYOUT - CORPORATE SERVICE
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9	2024-09-30	RE-ISSUED FOR TENDER	TS
8	2024-08-29	ISSUED FOR TENDER	TS
7	2024-07-18	ISSUED FOR PERMIT	TS
6	2024-06-11	ISSUED FOR 100% CD	AZ
5	2024-05-15	ISSUED FOR 50% CD	AZC
4	2024-04-02	ISSUED FOR 100% DD R1	AZC
3	2024-02-27	ISSUED FOR 50% DD	TS
2	2023-10-30	ISSUED FOR 100% DD	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

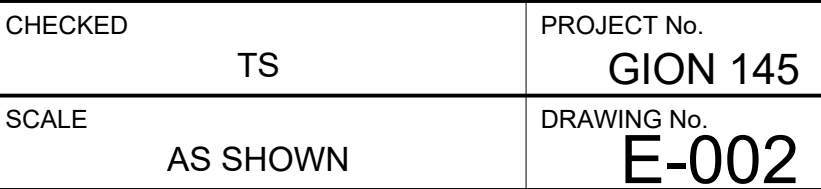
REVISIONS	
THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.	
PROJECT NORTH	
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARGC.COM	
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-22-149@QUASARGC.COM	
PROJECT	
HWP WAREHOSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3	
TITLE	
ELECTRICAL LEGENDS AND DRAWINGS LIST	
CHECKED	PROJECT No. GION 145
SCALE	DRAWING No. E-001



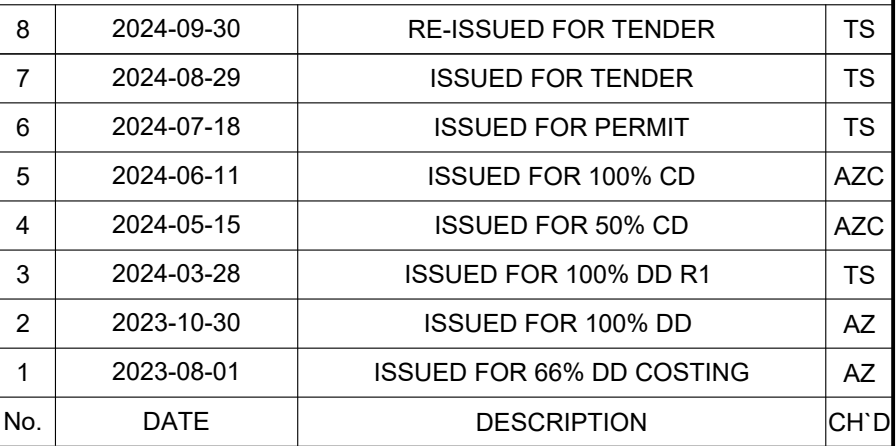



1. EV CHARGING STATION TO BE FED FROM TRANSITION BOX MOUNTED ON WALL, ROUTING THE CONDUIT UNDERGROUND TO THE EV STATION. REFER TO DETAIL 2 ON SHEET E-302.
2. EXISTING 100KVA PADMOUNTED CUSTOMER OWNED TRANSFORMER TO BE REPLACED WITH NEW CUSTOMER OWNED TRANSFORMER FOR THE NEW ELECTRICAL SERVICE UPGRADE. EXISTING TRANSFORMER TO BE REMOVED AND STORED ON SITE AT A LOCATION INSTRUCTED BY OWNER. REFER TO DETAIL 1 ON SHEET E-302 AND DETAILS 3 AND 4 ON SHEET E-304.  
  
REPLACE CONCRETE PAD. CONTRACTOR TO INCLUDE COST OF NEW PAD MOUNTED TRANSFORMER VAULT AND GROUNDINGS CONFIRM THE RECOMMENDED TRANSFORMER VOLTAGE MAKE AND MODEL. REMOVE TRANSFORMER MANUFACTURER AND PROVIDE THE CONSULTANT WITH SHOP DRAWING PRIOR TO PURCHASE.
3. CONDUCTORS TO TRANSITION FROM UNDERGROUND TO EXTERIOR WALL AND RUN UP SURFACED TO ELECTRICAL ROOM LOCATED ON SECOND LEVEL. REUSE EXISTING CONDUCTORS ROUTE IF POSSIBLE. REMOVE EXISTING CONDUCTORS AND REPLACE WITH NEW. REUSE EXISTING CONDUCTOR ROUTING TO EXISTING MAIN SWITCHBOARD.

REVISIONS	
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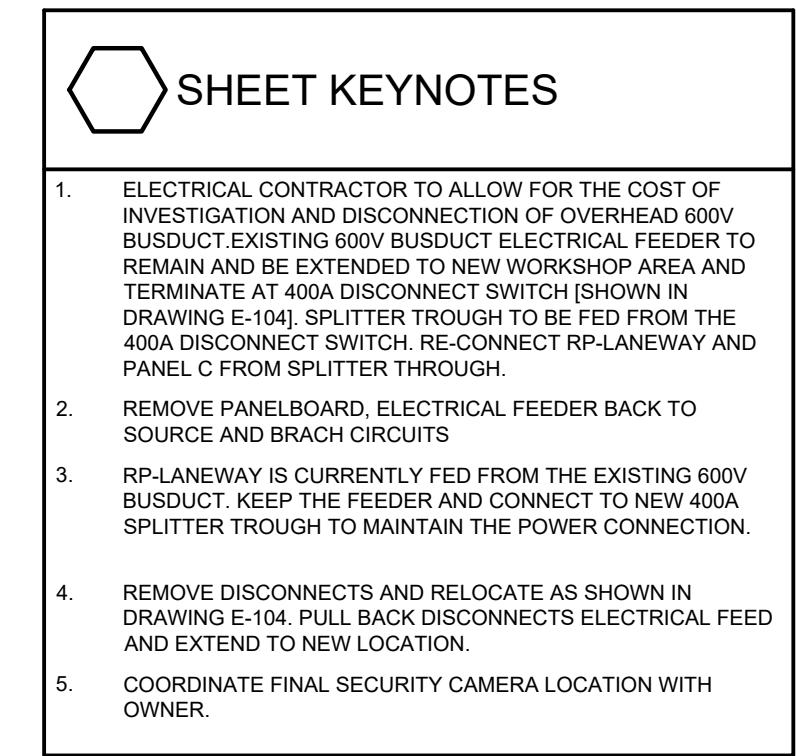
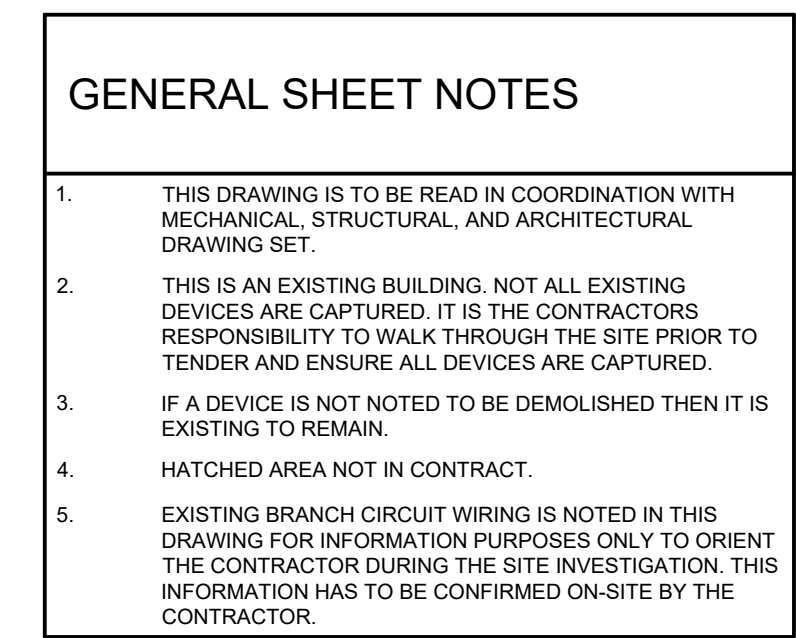
<p>THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.</p>	<p>PROJECT NORTH</p> 
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TITLE
GROUND FLOOR POWER AND SYSTEMS - OVERALL


CHECKED	PROJECT No.
TS	GION 145
SCALE	DRAWING No.
1:250	E-100

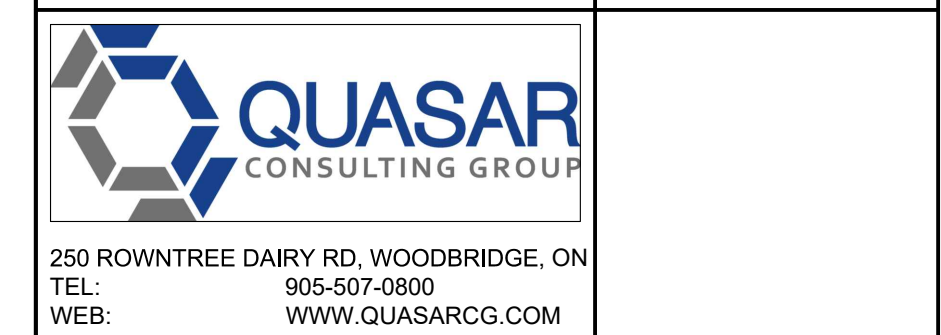




8	2024-09-30	RE-ISSUED FOR TENDER	TS
7	2024-08-29	ISSUED FOR TENDER	TS
6	2024-07-18	ISSUED FOR PERMIT	TS
5	2024-06-11	ISSUED FOR 100% CD	AZC
4	2024-05-15	ISSUED FOR 50% CD	AZC
3	2024-03-28	ISSUED FOR 100% DD R1	TS
2	2023-10-30	ISSUED FOR 100% DD	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ

No.	DATE	DESCRIPTION	CH'D
REVISIONS			

<p>THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.</p>	<p>PROJECT NORTH</p> 
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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE
EXISTING POWER & SYSTEMS PLAN - MAIN FLOOR

CHECKED	PROJECT No.
TS	GION 145
SCALE	DRAWING No.
1:250	E-101



# GENERAL SHEET NOTES

- THIS DRAWING IS TO BE READ IN COORDINATION WITH MECHANICAL, STRUCTURAL, AND ARCHITECTURAL DRAWING SET.
- THIS IS AN EXISTING BUILDING. NOT ALL EXISTING DEVICES ARE CAPTURED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDER AND GATHER THE COMPLETE SCOPE OF WORK BASED ON EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR TO DIFFERENTIATE BETWEEN CORPORATE SERVICES [TAG RED] & SCADA [TAG BLUE] DATA CABLE DROPS.

# SHEET KEYNOTES

- PROVIDE 20A DUPLEX RECEPTACLE CORD REEL. REFER TO DETAIL 6 ON SHEET E-302
- CONTRACTOR TO CONFIRM RECEPTACLE CSA CONFIGURATION WITH OWNER PRIOR TO INSTALLATION. ALLOW FOR NEUTRAL CONDUCTOR.
- NEW FIRE ALARM HORN/STROBE DEVICES SHOWN TO BE CONNECTED TO NEAREST NOTIFICATION APPLIANCE CIRCUIT.
- ALLOW FOR A FIRE ALARM ZONE FOR GAS DETECTION. INCLUDE ALL WIRING, CONDUIT, AND TESTING.
- ONLY BACKBOXES AND CINDITS PROVIDED BACK TO EXISTING HEAD END.
- PROVIDE 2 DATA DROPS PER DATA OUTLET WHERE "2D" IS SHOWN.
- TRANSFORMERS TO BE CEILING MOUNTED. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND CONFIRM STRUCTURAL SUPPORT WITH ARCHITECT AND STRUCTURAL ENGINEER.
- REFER TO FIRE ALARM ZONE AND SUPERVISORY ZONE SCHEDULE ON SHEET E-300.
- ALL ELECTRICAL AND IT DEVICES IN SCADA ROOMS TO BE CONNECTED TO PANEL RP-SC BACKED UP BY THE UPS[REFER TO SINGLE LINE DIAGRAM].
- COORDINATE FINAL LOCATION OF NEW UPS, DOUBLE THROW SWITCHES AND PANEL RP-SC WITHIN THE SCADA ROOMS AREA WITH OWNER PRIOR TO INSTALLATION.

10	2024-09-30	RE-ISSUED FOR TENDER	TS
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR REVIEW	AZZ
5	2024-03-28	ISSUED FOR 100% DD R1	AZZ
4	2024-02-27	ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-08-15	ISSUED FOR 66% DESIGN DEVELOPMENT	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

## REVISIONS

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PROJECT NORTH



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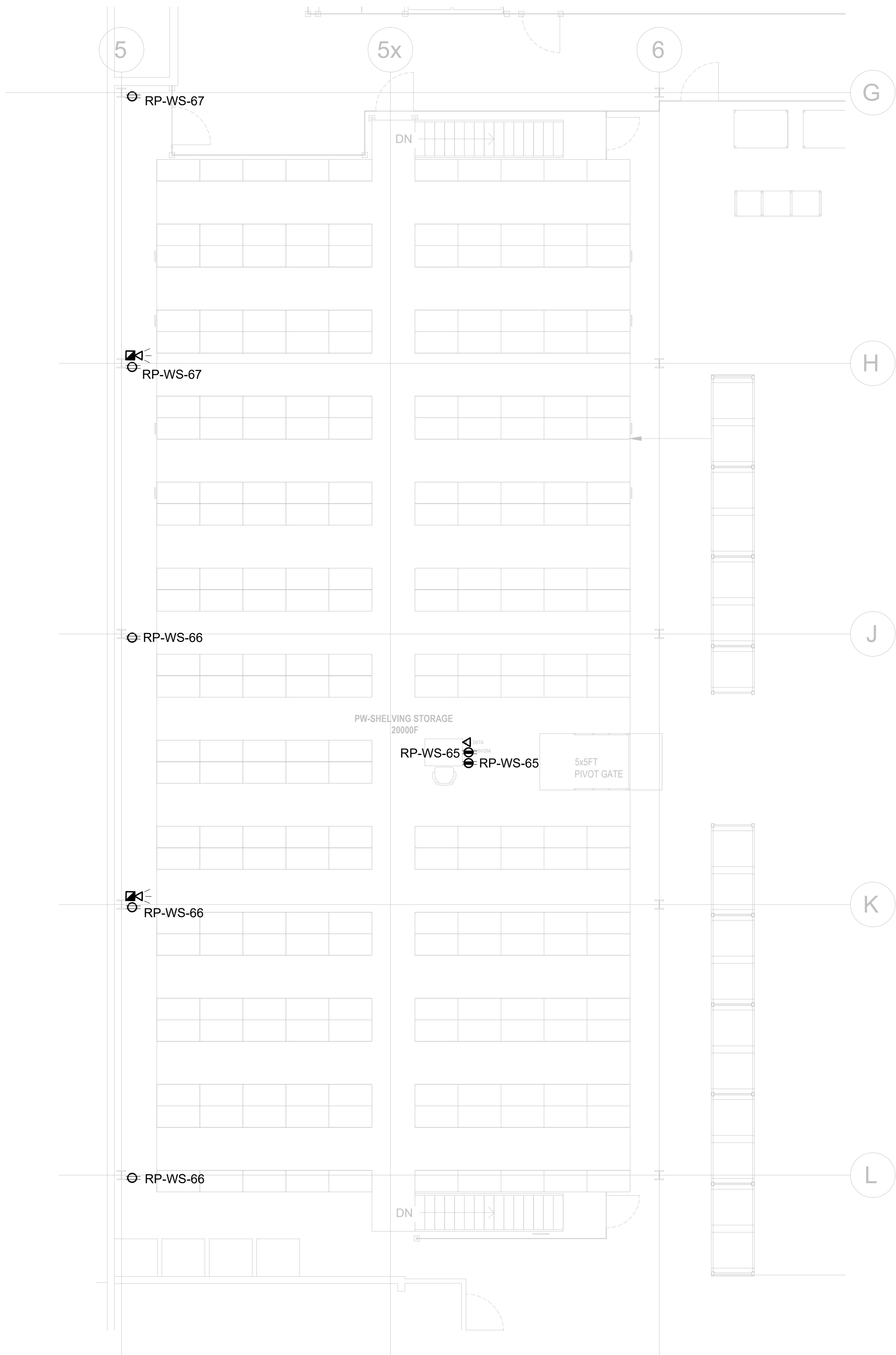
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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**POWER & SYSTEMS - PUBLIC WORKS**

CHECKED	TS	PROJECT No.	GION 145
SCALE	1:150	DRAWING No.	E-102





### GENERAL SHEET NOTES

- CONNECT NEW FIRE ALARM HORNS TO THE CLOSEST FIRE ALARM NOTIFICATION CIRCUIT [NAC].

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

#### REVISIONS

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PROJECT NORTH



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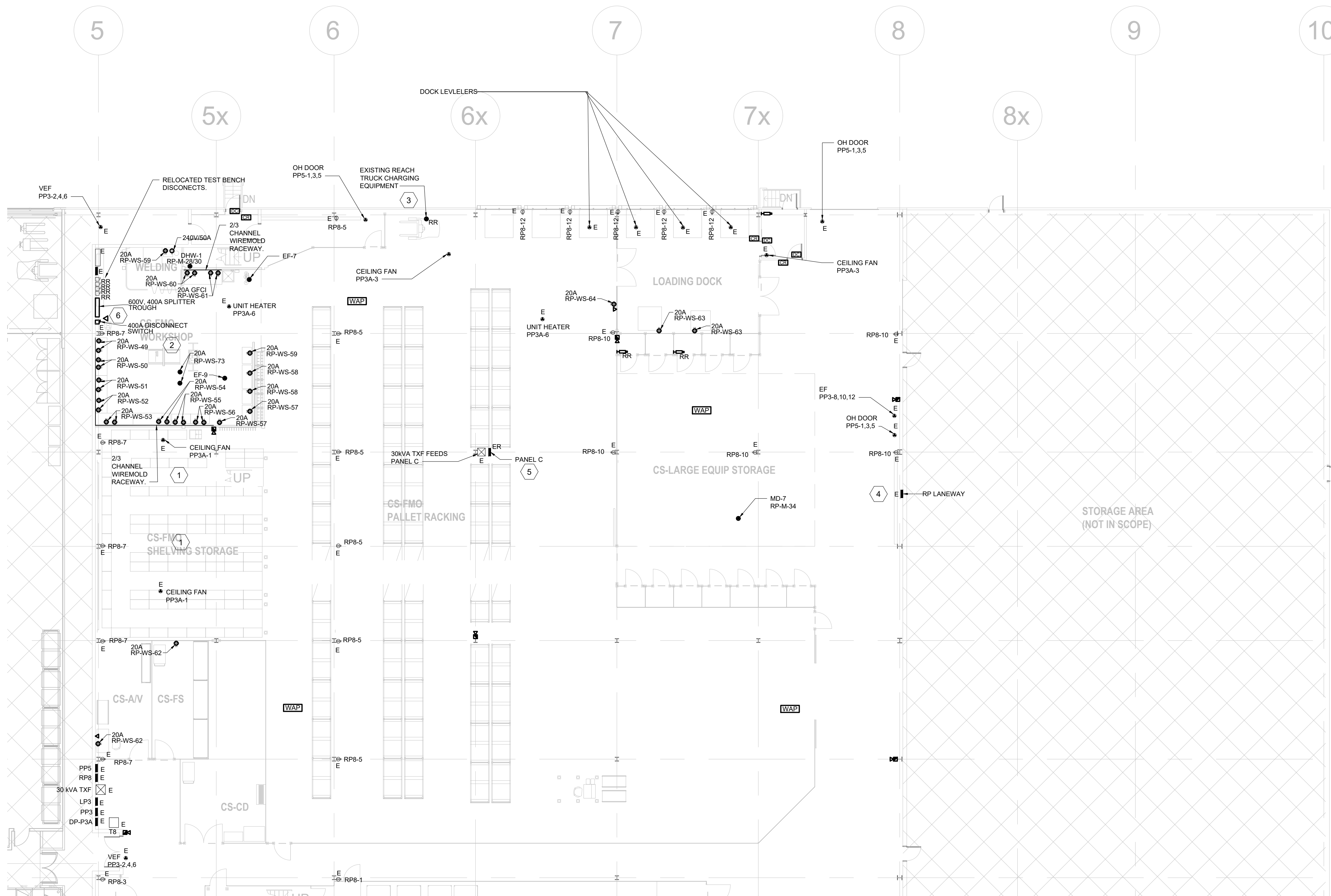
PROJECT

**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE

**POWER & SYSTEMS - PUBLIC WORKS LEVEL 2**

CHECKED	TS	PROJECT No.	GION 145
SCALE	1:100	DRAWING No.	<b>E-103</b>



### GENERAL SHEET NOTES

- THIS DRAWING IS TO BE READ IN COORDINATION WITH MECHANICAL, STRUCTURAL, AND ARCHITECTURAL DRAWING SET.
- THIS IS AN EXISTING BUILDING. NOT ALL EXISTING DEVICES ARE CAPTURED.
- ELECTRICAL CONTRACTOR TO REMOVE EMPTY RACEWAYS, PULL BOXES, HANGERS AND SUPPORTS (INCLUDING SNAP-ON HARDWARE) MOUNTED ON CEILING, WALL, AND COLUMN SPACES. SEE DEMOLITION CASH ALLOWANCE.

### SHEET KEYNOTES

- ELECTRICAL CONTRACTOR TO ALLOW FOR THE COST OF INVESTIGATION AND DISCONNECTION OF OVERHEAD 600V BUS DUCT. BUS DUCT FEEDER TO REMAIN AND BE RE-ROUTED AND CONNECTED TO NEW 400A SPLITTER THROUGH.
- PROVIDE 20A DUPLEX RECEPTACLE CORD REEL. REFER TO DETAIL 6 ON SHEET E-302.
- ELECTRICAL CONTRACTOR TO COORDINATE RELOCATION OF REACH TRUCK CHARGER POWER CONNECTION WITH CLIENT. CONFIRM LOCATION AND POWER REQUIREMENTS WITH CLIENT PRIOR TO RE-LOCATION.
- ELECTRICAL CONTRACTOR TO CONNECT RP-LANEWAY FROM NEW 400A SPLITTER THROUGH.
- ELECTRICAL CONTRACTOR TO CONNECT PANEL C TRANSFORMER FROM NEW 400A SPLITTER THROUGH.
- ZENITEL ITSV-2 DESKTOP VIDEO INTERCOM PHONE TO BE SUPPLIED AND INSTALLED IN THE SECURITY OFFICE AND CONNECTED TO YR NETWORK. PROVIDE DATA DROP AND CONDUIT ALLOW FOR 100FT. COORDINATE FINAL LOCATION WITH OWNER.

8	2024-09-30	RE-ISSUED FOR TENDER	TS
7	2024-08-29	ISSUED FOR TENDER	TS
6	2024-07-18	ISSUED FOR PERMIT	TS
5	2024-06-11	ISSUED FOR 100% CD	AZ
4	2024-05-15	ISSUED FOR 50% CD	AZC
3	2024-03-28	ISSUED FOR 100% DD R1	TS
2	2023-10-30	ISSUED FOR 100% DD	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

### REVISIONS

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TEL: 905-507-0800  
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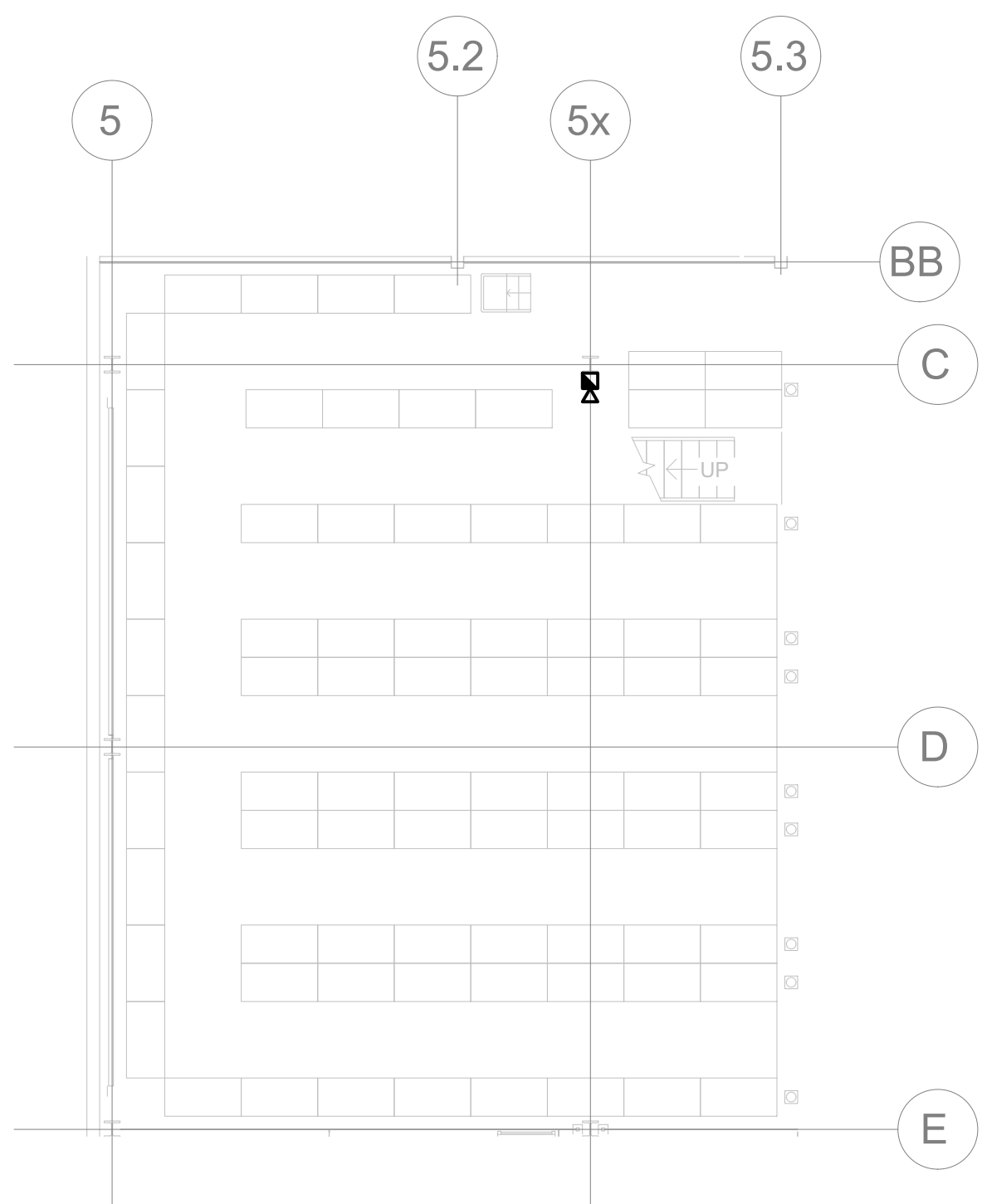
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CM-22-149@QUASARCG.COM

PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

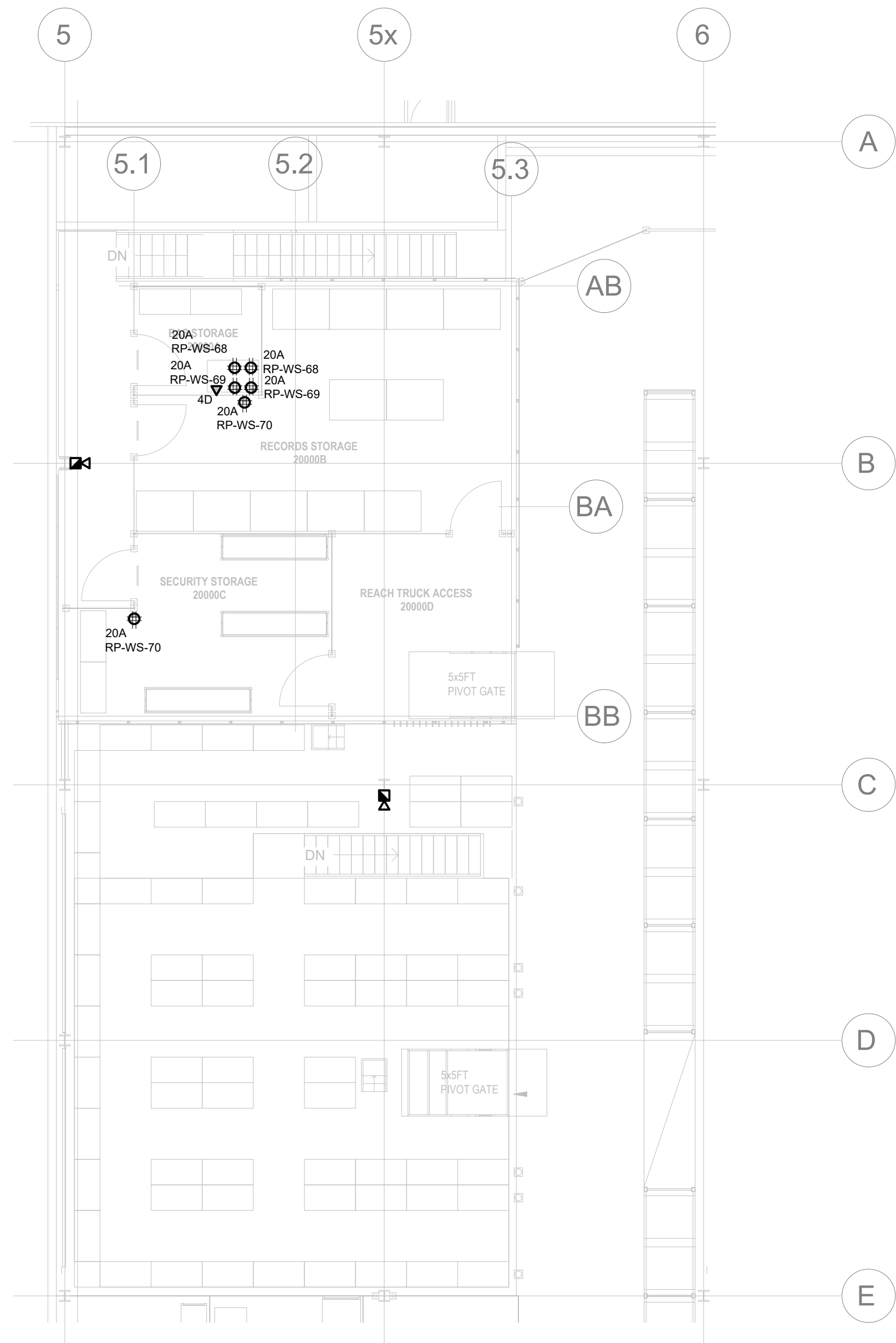
TITLE  
**POWER AND SYSTEMS -CORPORATE SERVICES**

CHECKED TS	PROJECT No. <b>GION 145</b>
SCALE 1:150	DRAWING No. <b>E-104</b>





1 POWER AND SYTEMS - MEZZANINE LEVEL 1  
SCALE: 1:100



2 POWER AND SYSTEMS - MEZANINE LEVEL 2  
SCALE: 1:100

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

REVISIONS		
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PROJECT NORTH		

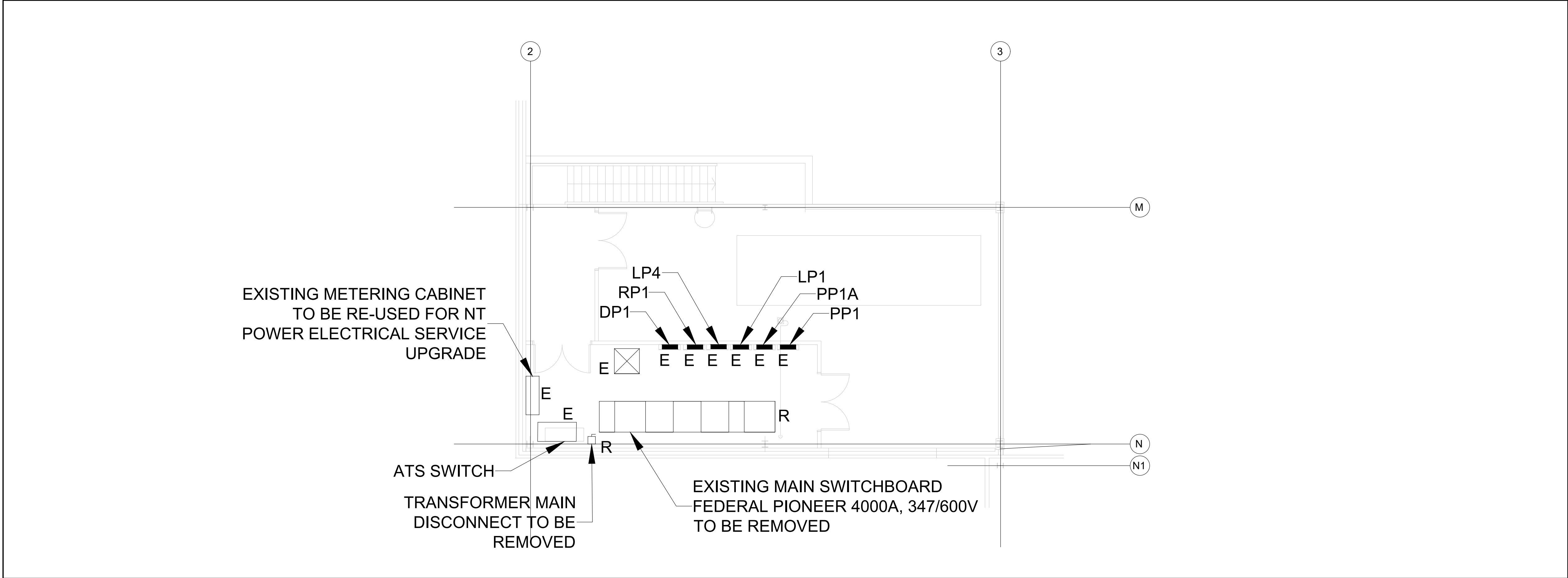
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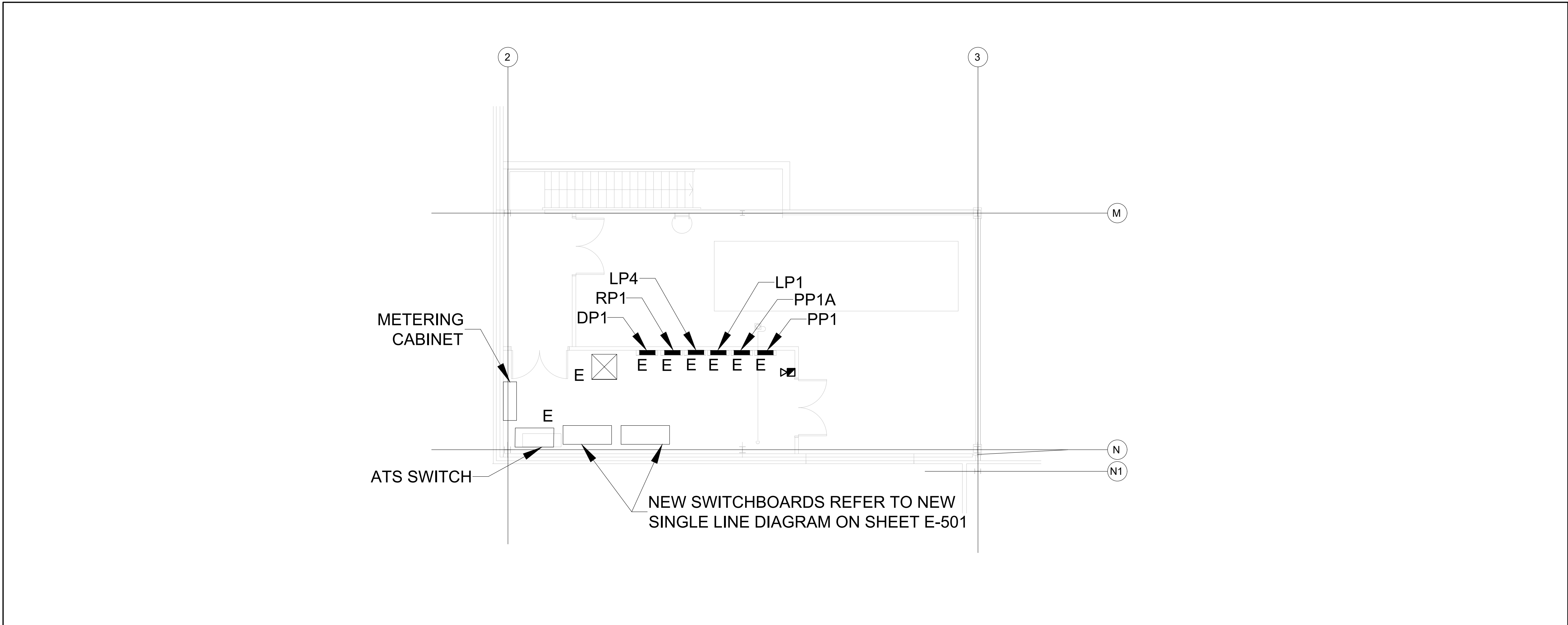
PROJECT  
**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**MEZZANINE LEVEL - POWER AND SYSTEM**

CHECKED TS	PROJECT No. <b>GION 145</b>
SCALE AS SHOWN	DRAWING No. <b>E-105</b>



1 ELECTRICAL ROOM LAYOUT - EXISTING  
SCALE: 1:100

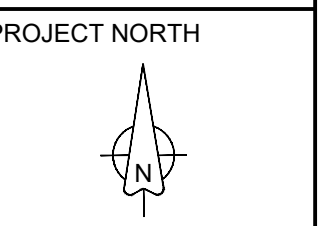


2 ELECTRICAL ROOM LAYOUT - NEW LAYOUT  
SCALE: 1:100

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

REVISIONS

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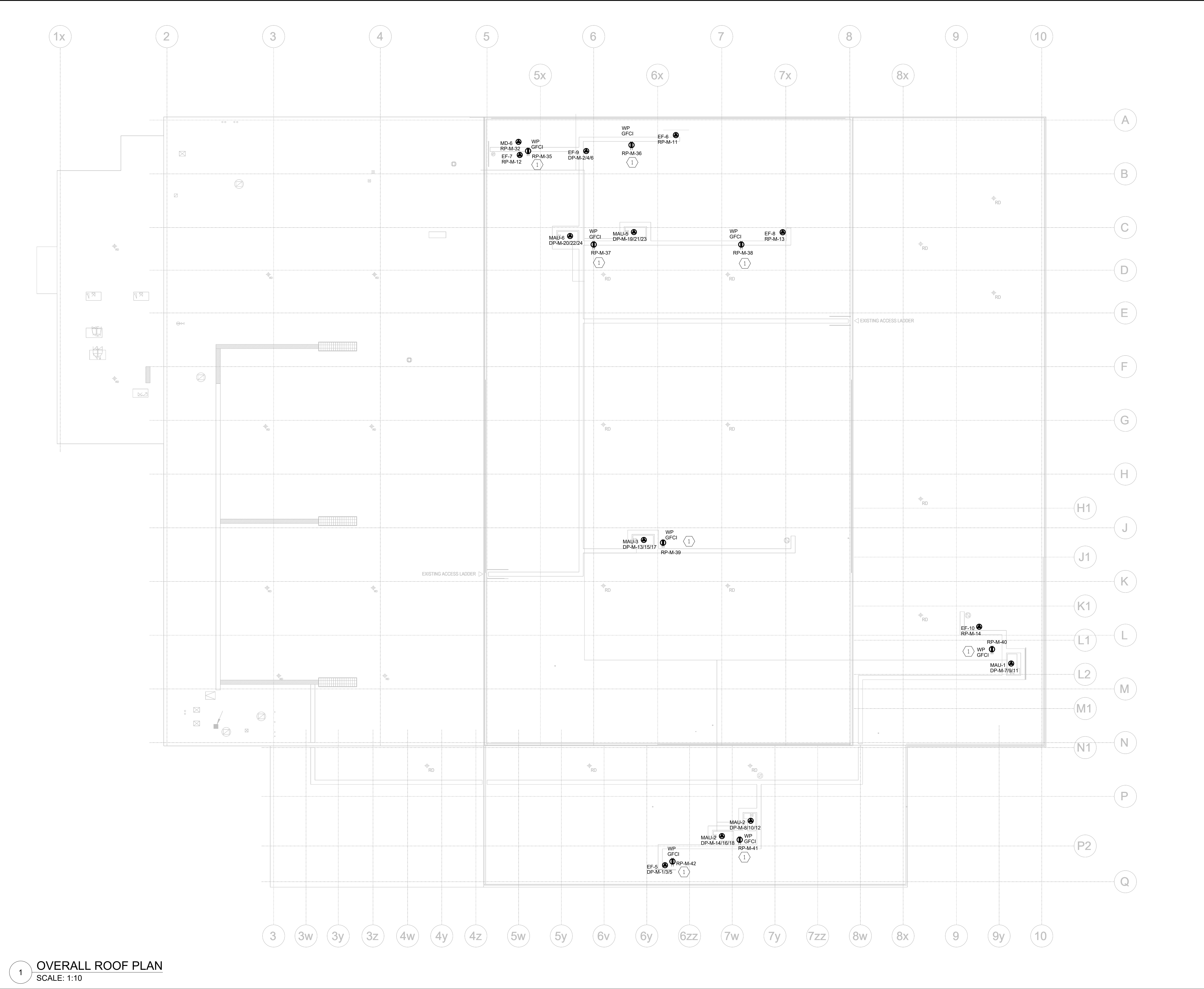
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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**POWER AND SYSTEMS PLAN - ELECTRICAL ROOM**

CHECKED TS	PROJECT No. <b>GION 145</b>
SCALE AS SHOWN	DRAWING No. <b>E-106</b>





GENERAL SHEET NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL TRADE THE FINAL POWER CONNECTION FOR ALL MECHANICAL EQUIPMENT AND THEIR CONTROLS.

SHEET KEYNOTES

1. 20A ROOF MOUNTED RECEPTACLE FOR HVAC EQUIPMENT MAINTENANCE. REFER TO DETAIL 1 ON SHEET E-305.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

REVISIONS

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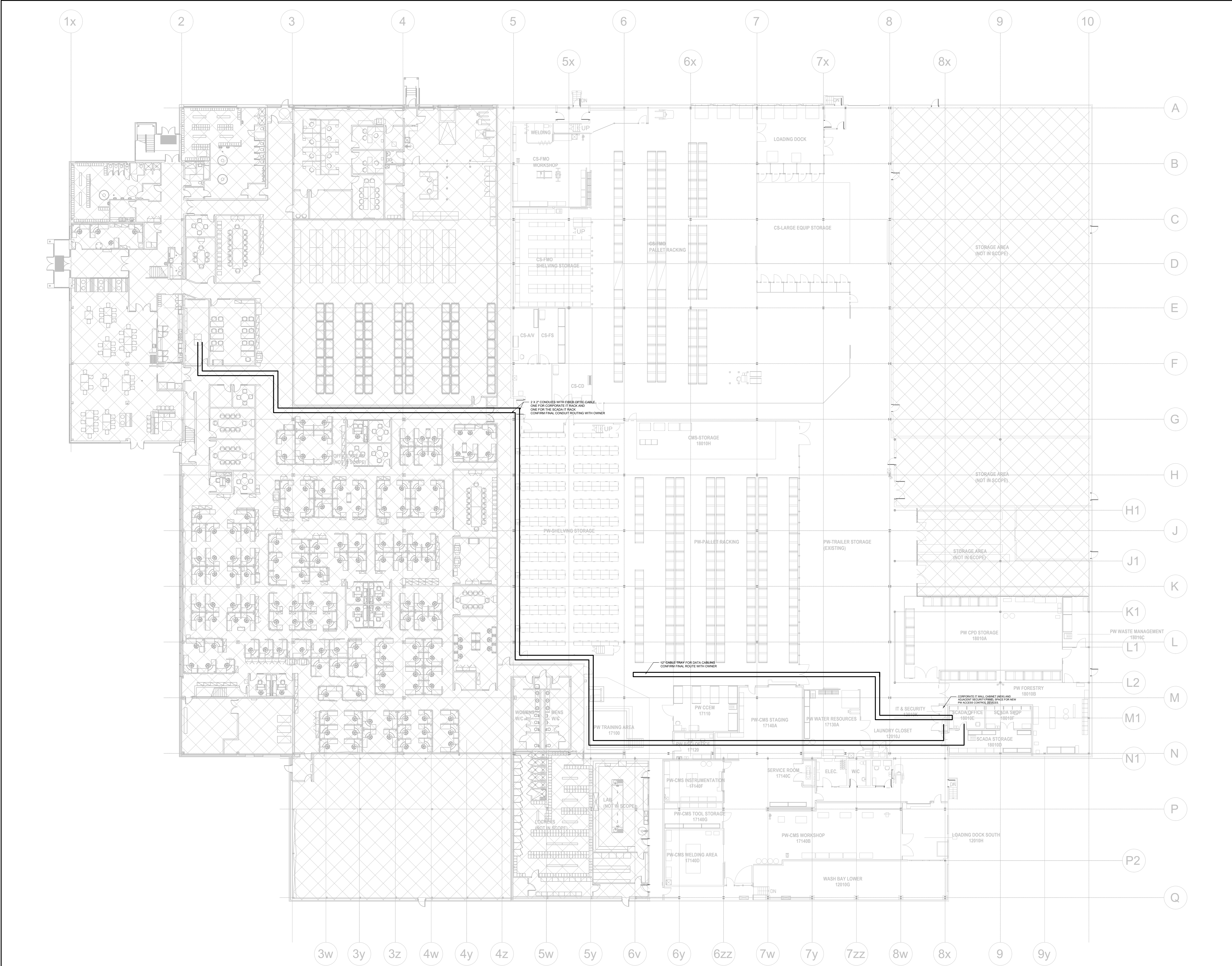
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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE		POWER & SYSTEMS - ROOF PLAN	
CHECKED	TS	PROJECT No.	GION 145
SCALE	AS SHOWN	DRAWING No.	E-107





10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

REVISIONS

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PROJECT

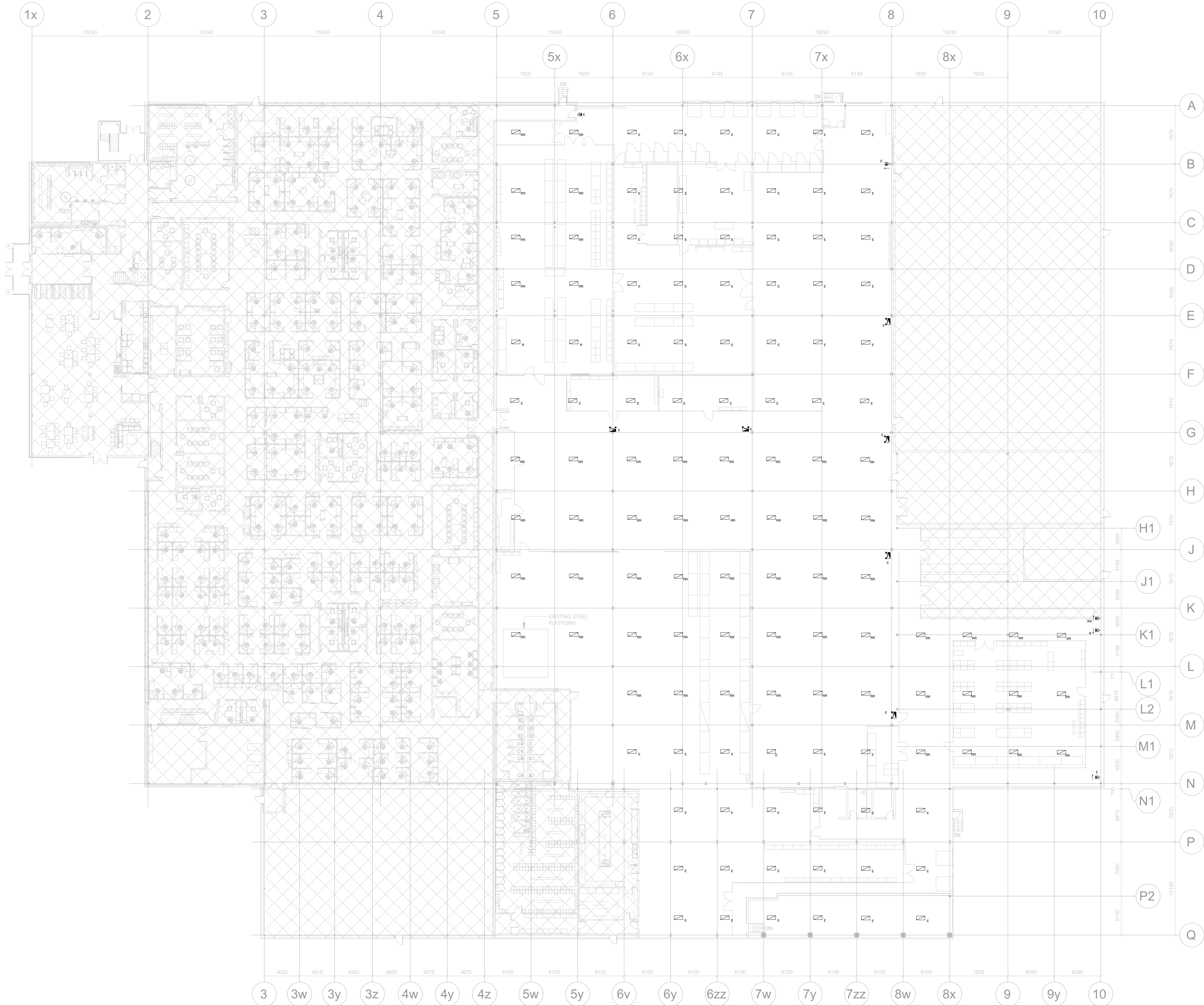
HWP WAREHOUSE UPGRADE  
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NEWMARKET  
ON L3Y 7B3

TITLE

GROUND FLOOR OVERALL PLAN - NEW

CHECKED	TS	PROJECT No.	GION 145
SCALE	AS SHOWN	DRAWING No.	E-108





#### GENERAL SHEET NOTES

1. ALL LIGHTING FIXTURES ARE EXISTING IN THIS DRAWING.
2. HATCHED AREA NOT IN CONTRACT.
3. CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINARIES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING.
4. ALL LIGHTING FIXTURES SHOWN TO BE REMOVED TO BE STORED IN A DRY AND SAFE LOCATION. TO BE REUSED IN NEW LIGHTING LAYOUT.
5. WHERE LIGHTING FIXTURES ARE SHOWN TO BE REMOVED THE LIGHTING BRANCH CIRCUIT SHALL REMAIN TO BE RE-USED FOR NEW OR RELOCATED LIGHTING FIXTURES.

7	2024-09-30	RE-ISSUED FOR TENDER	TS
6	2024-08-29	ISSUED FOR TENDER	TS
5	2024-07-18	ISSUED FOR PERMIT	TS
4	2024-06-11	ISSUED FOR 100% CD	AZ
3	2024-05-15	ISSUED FOR 50% CD	AZC
2	2024-03-28	ISSUED FOR 100% DD R1	AZC
1	2024-02-27	ISSUED FOR 50% DD	TS
No.	DATE	DESCRIPTION	CH'D

#### REVISIONS

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PROJECT

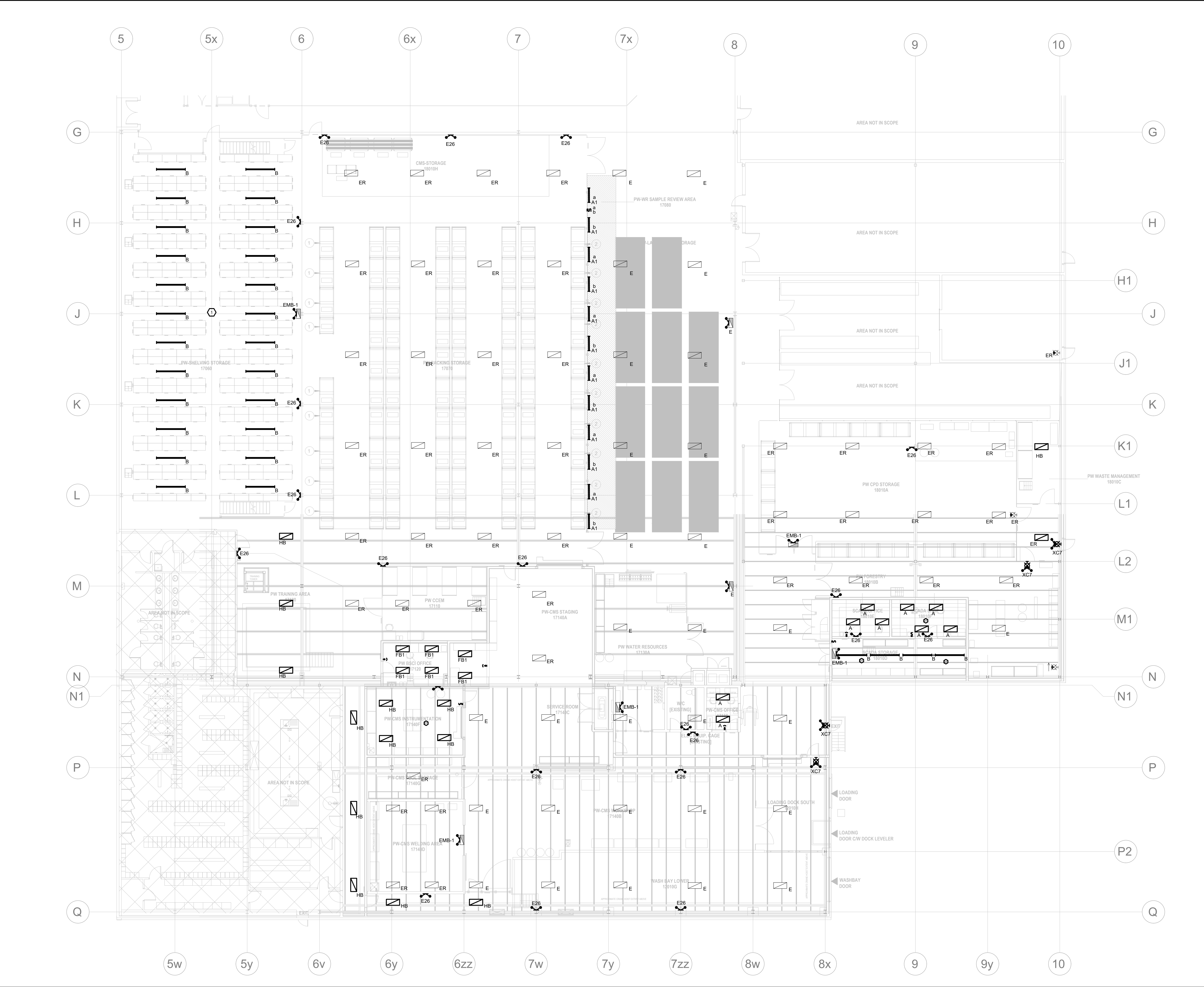
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**PUBLIC WORKS DEMOLITION LIGHTING PLAN - MAIN FLOOR**

CHECKED TS PROJECT No. **GION 145**

SCALE 1:250 DRAWING No. **E-200**





GENERAL SHEET NOTES

1. ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS
2. HATCHED AREA NOT IN CONTRACT.
3. CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINAIRES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.
4. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS OBTAINED DURING DEMOLITION.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

REVISIONS

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PROJECT NORTH



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GION 145@QUASARGROUP.COM

PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

PUBLIC WORKS NEW LIGHTING PLAN - MAIN FLOOR

CHECKED

TS

PROJECT No.

GION 145

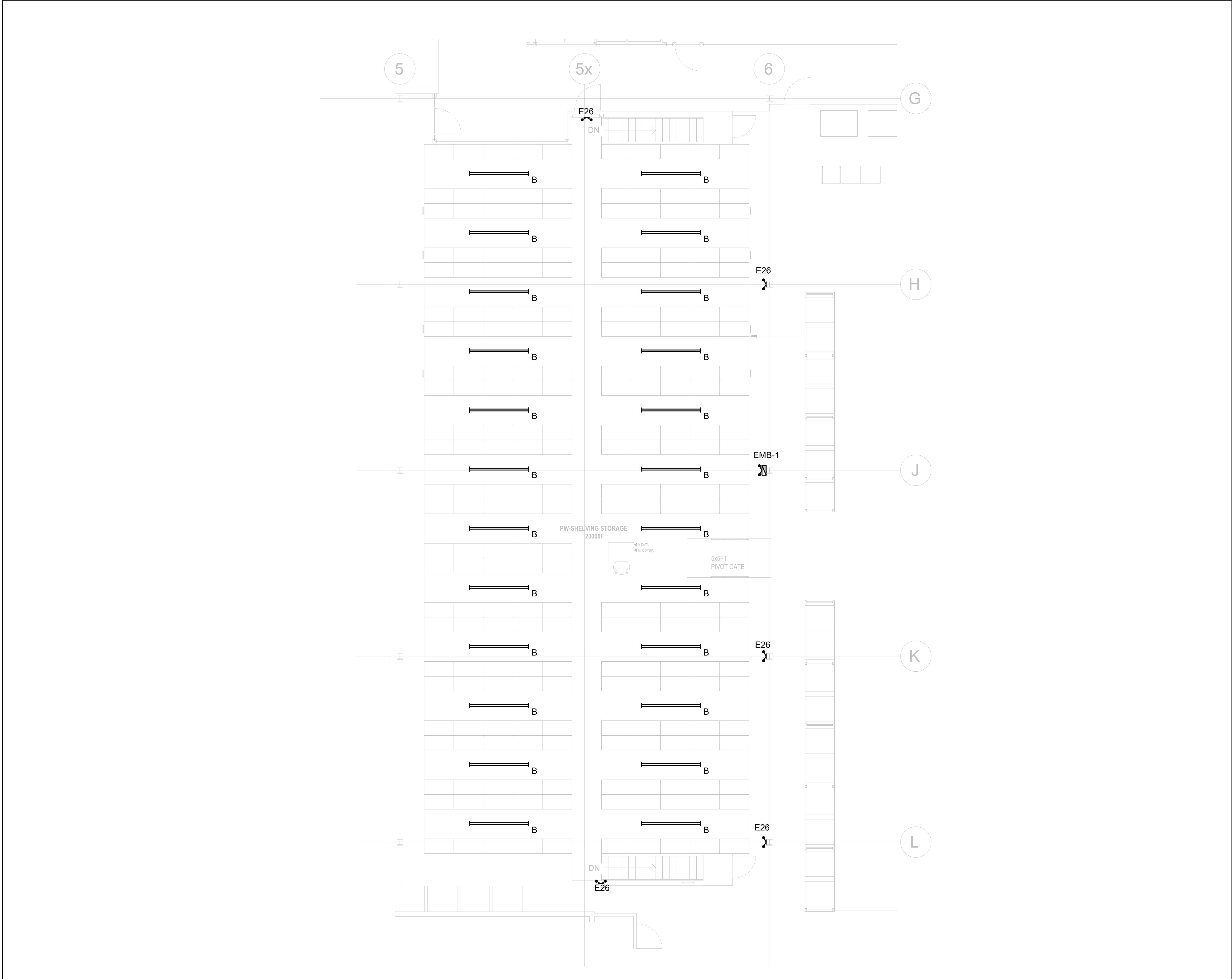
SCALE

1:150

DRAWING No.

E-201





- GENERAL SHEET NOTES**
- ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS
  - HATCHED AREA NOT IN CONTRACT.
  - CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINAIRES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.
  - CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS OBTAINED DURING DEMOLITION.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

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PROJECT NORTH

 **QUASAR**  
CONSULTING GROUP

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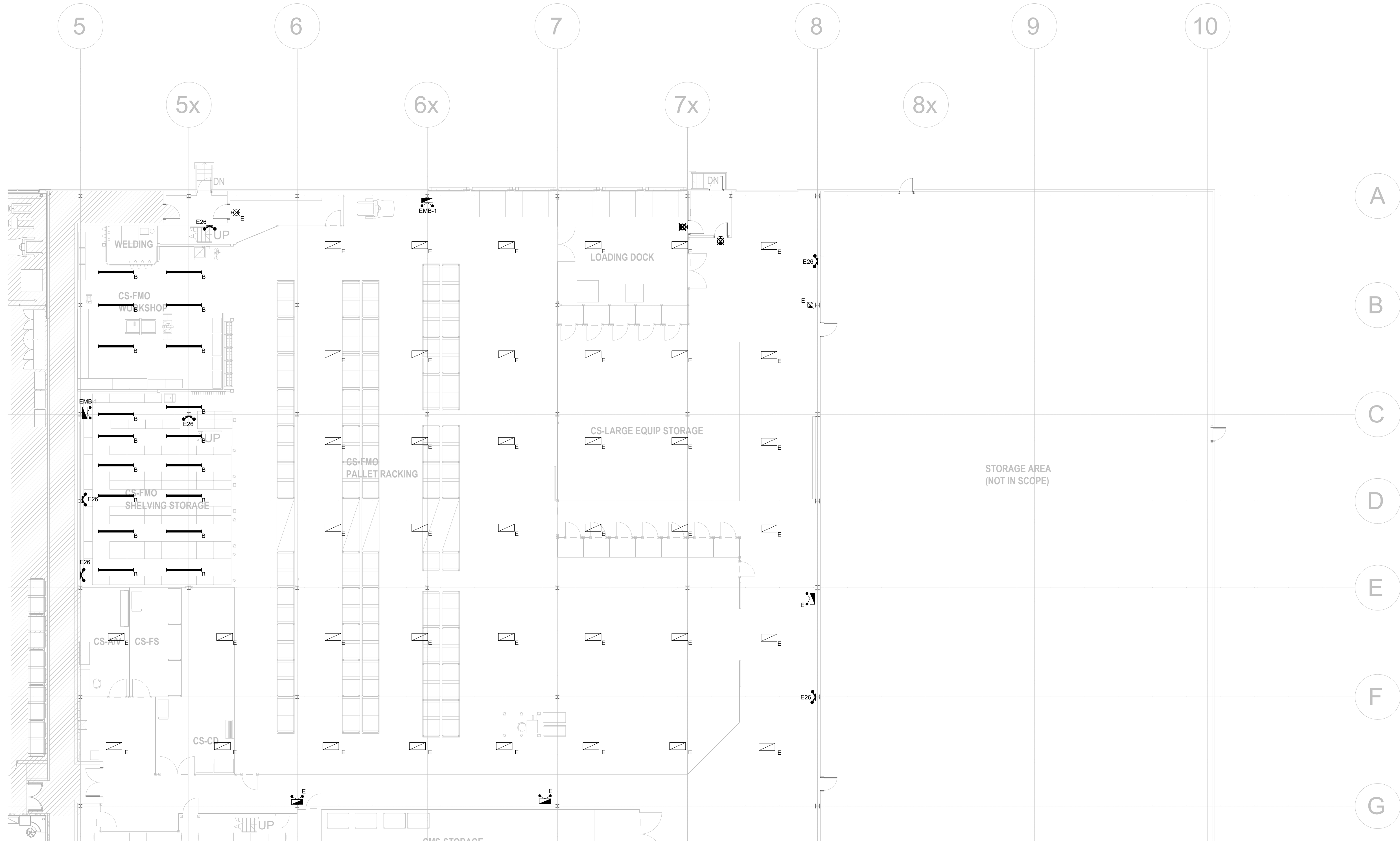
PROJECT

**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE

**LIGHTING LAYOUT - PUBLIC WORKS LEVEL 2**

CHECKED	TS	PROJECT No.	GION 145
SCALE	1:100	DRAWING No.	<b>E-202</b>



GENERAL SHEET NOTES

1. ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS
2. HATCHED AREA NOT IN CONTRACT.
3. CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINAIRES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.
4. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS OBTAINED DURING DEMOLITION.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

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**QUASAR**  
CONSULTING GROUP

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TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

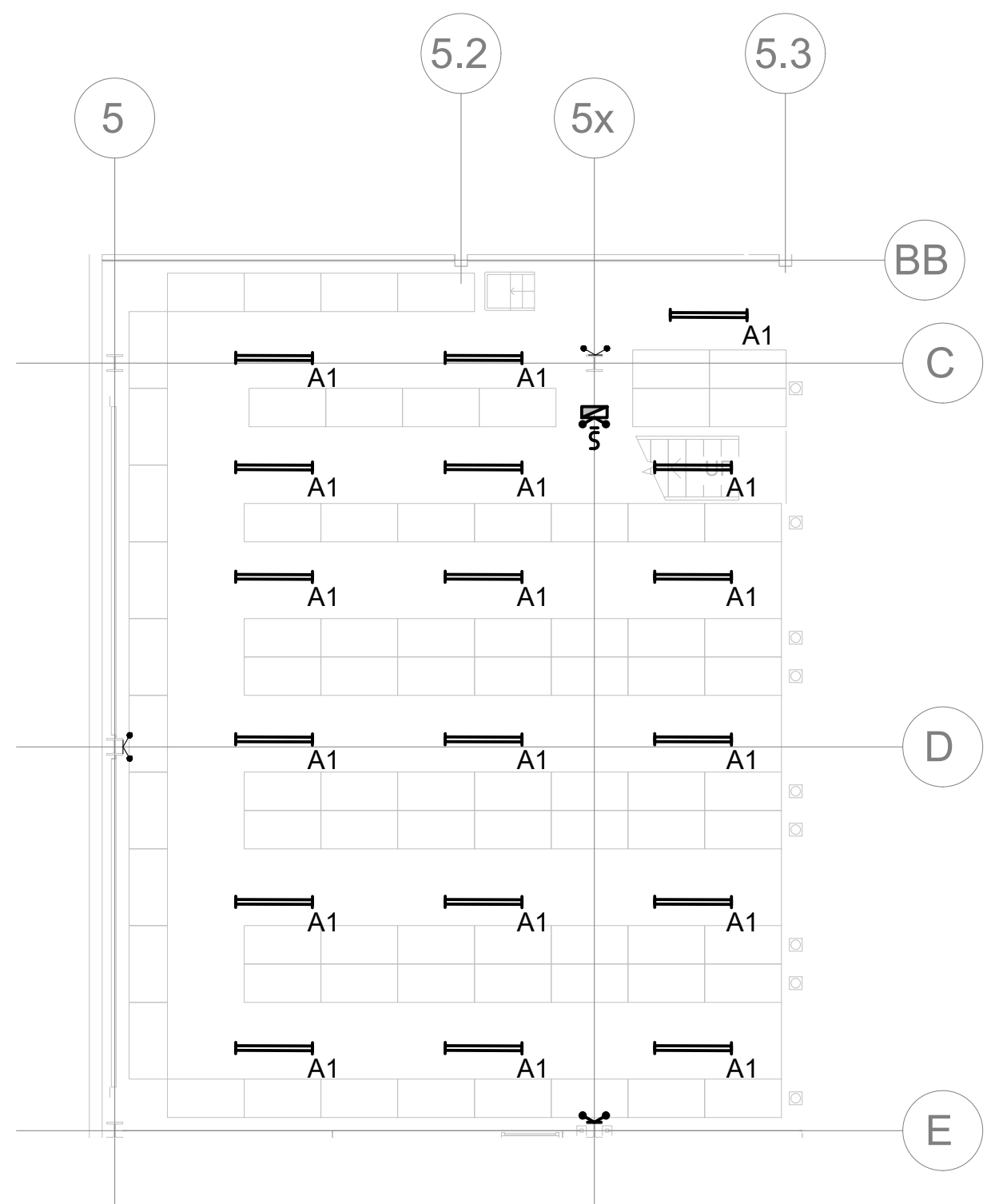
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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

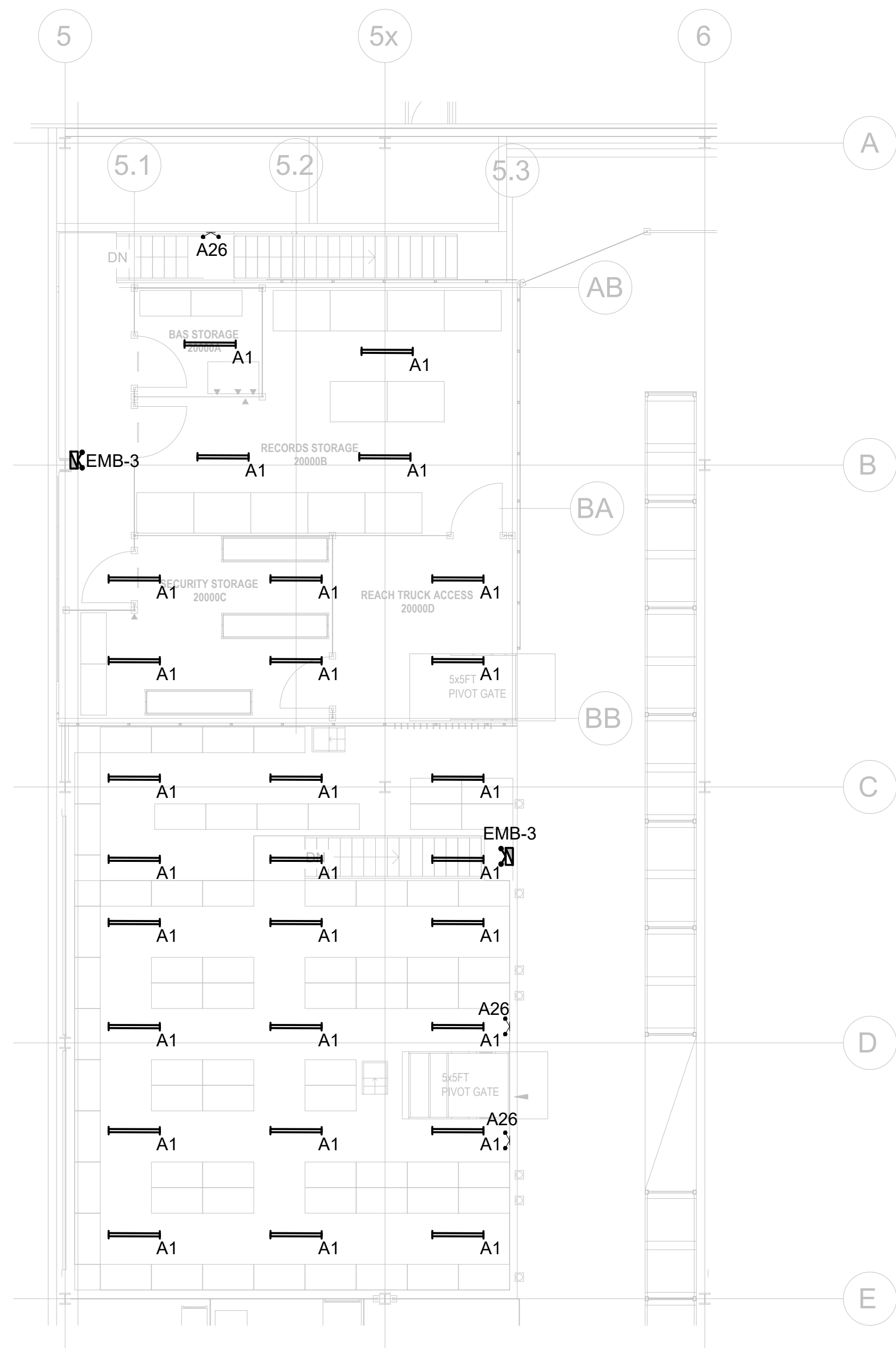
TITLE  
**NEW LIGHTING LAYOUT - CORPORATE SERVICE**

CHECKED	TS	PROJECT No.	GION 145
SCALE	1:150	DRAWING No.	E-203





1 LIGHTING LAYOUT - MEZZANINE LEVEL 1  
SCALE: 1:100



2 LIGHTING LAYOUT - MEZANINE LEVEL 2  
SCALE: 1:100

GENERAL SHEET NOTES

1. ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS
2. CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINAIRES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.
3. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS OBTAINED DURING DEMOLITION.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
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No.	DATE	DESCRIPTION	CH'D

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PROJECT NORTH



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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

LIGHTING LAYOUT - MEZZANINE LEVEL

CHECKED

TS

PROJECT No.

GION 145

SCALE

AS SHOWN

DRAWING No.

E-204

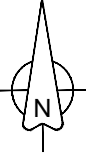

FIRE ALARM ZONE AND SUPERVISORY ZONE SCHEDULE (FACP LOCATED IN I.T ROOM 146)												
	SD SMOKE DETECTOR DSD DUCT SMOKE DETECTOR HD HEAT DETECTOR	MPS MANUAL PULL STATION FS FLOW SWITCH SV SUPERVISED VALVE		PS WATER FLOW INDICATING PRESSURE SWITCH	LAPS - LOW AIR PRESSURE SWITCH					FAZ- ALARM FSZ - SUPERVISORY		
ZONE (2012 OBC 3.2.4.9)	DESCRIPTION	ALARM	ANNUNCIATOR A-ALARM S-SUPERVISOR Y M-BUILDING MONITOR R-ANCILLARY RELAY	FA DEVICES							REMARKS	
				SD	DSD	HD	MPS	FS	SV	PS		
	EXISTING NAC CIRCUITS TO REMAIN											
	EXISTING FIRE ALARM DETECTION CIRCUITS											
RELAY-9	MAGLOCK RELEASE		R									
RELAY-11	ELECTROMAGNETIC LOCK RELEASE		R									RELAY BYPASS MUST CAUSE AN AUDIBLE AND VISUAL SIGNAL AT THE FIRE ALARM ANNUNCIATOR. 2012 OBC 3.4.6.16.(4)(j).
RELAY-12	MAU SHUT DOWN		R									REFER TO MECHANICAL DRAWINGS AND REVIEW FIRE MODE SEQUENCE OF OPERATION
RELAY-13	MAU SHUT DOWN		R									REFER TO MECHANICAL DRAWINGS AND REVIEW FIRE MODE SEQUENCE OF OPERATION
RELAY-14	MAU SHUT DOWN		R									REFER TO MECHANICAL DRAWINGS AND REVIEW FIRE MODE SEQUENCE OF OPERATION
RELAY-15	MAU SHUT DOWN		R									REFER TO MECHANICAL DRAWINGS AND REVIEW FIRE MODE SEQUENCE OF OPERATION
RELAY-16	MAU SHUT DOWN		R									REFER TO MECHANICAL DRAWINGS AND REVIEW FIRE MODE SEQUENCE OF OPERATION
RELAY-17	MAU SHUT DOWN		R									REFER TO MECHANICAL DRAWINGS AND REVIEW FIRE MODE SEQUENCE OF OPERATION
NOTES: 1. REFER TO FLOOR PLANS FOR EXACT LOCATIONS QUANTITY OF DEVICES. 2. CONTRACTOR IS TO CONFIRM WIRE SIZE (BASED UPON LENGTH OF CIRCUIT RUN AND QUANTITY OF SIGNALS) FOR SIGNAL CIRCUIT WITH MANUFACTURER. 3. PROVIDE THE REQUIRED NUMBER OF SIGNAL CIRCUITS TO SUIT THE QUANTITY OF STROBES. SIGNAL CIRCUITS ARE TO BE ALTERNATED. 4. LOCATE END OF LINE RESISTORS AND ISOLATOR MODULES IN SERVICE ROOMS AT ±1.8M AFF. PROVIDE LAMICOID LABEL INDICATING ZONE LABEL AND NUMBER. 5. PROVIDE BY-PASS SWITCH FOR ALL ANCILLARY RELAYS. PROVIDE AUDIBLE AND VISUAL SIGNAL (SUPERVISION) OF OPERATION OF ANY BY-PASS SWITCH. 6. EXISTING FACP IS A EDWARD SYSTEM TECHNOLOGY EST3X MAKE. 7. INCLUDE AS PART OF THE BASE BID FOUR ADDITIONAL RELAYS WITH WIRING FOR ANY ADDITIONAL DEVICES. 8. INCLUDE AS PART OF BASE BID AN ADDITIONAL NOTIFICATION APPLIANCE CIRCUIT.												

1

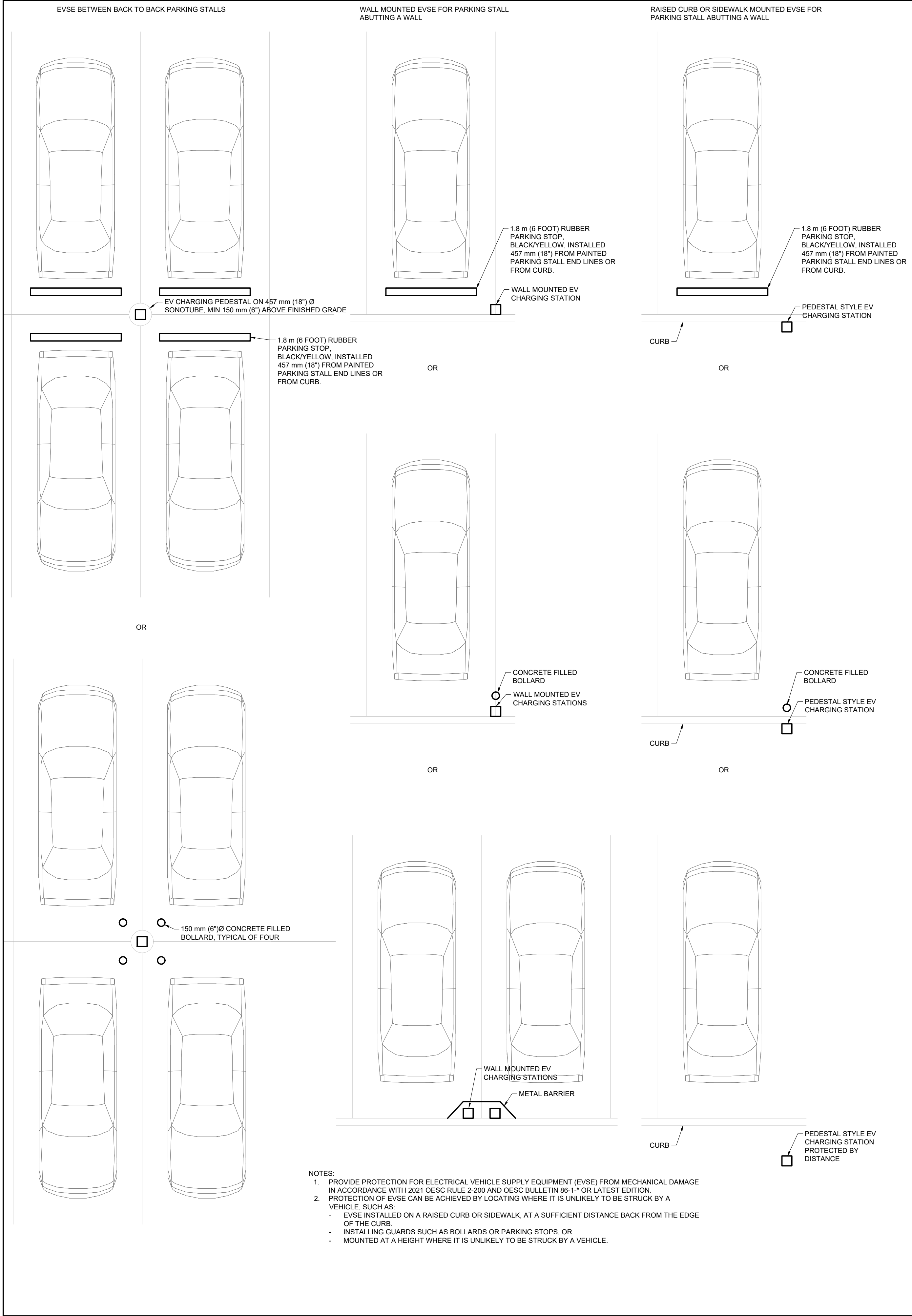
EXISTING FIRE ALARM ZONE SCHEDULE

SCALE: N.T.S.

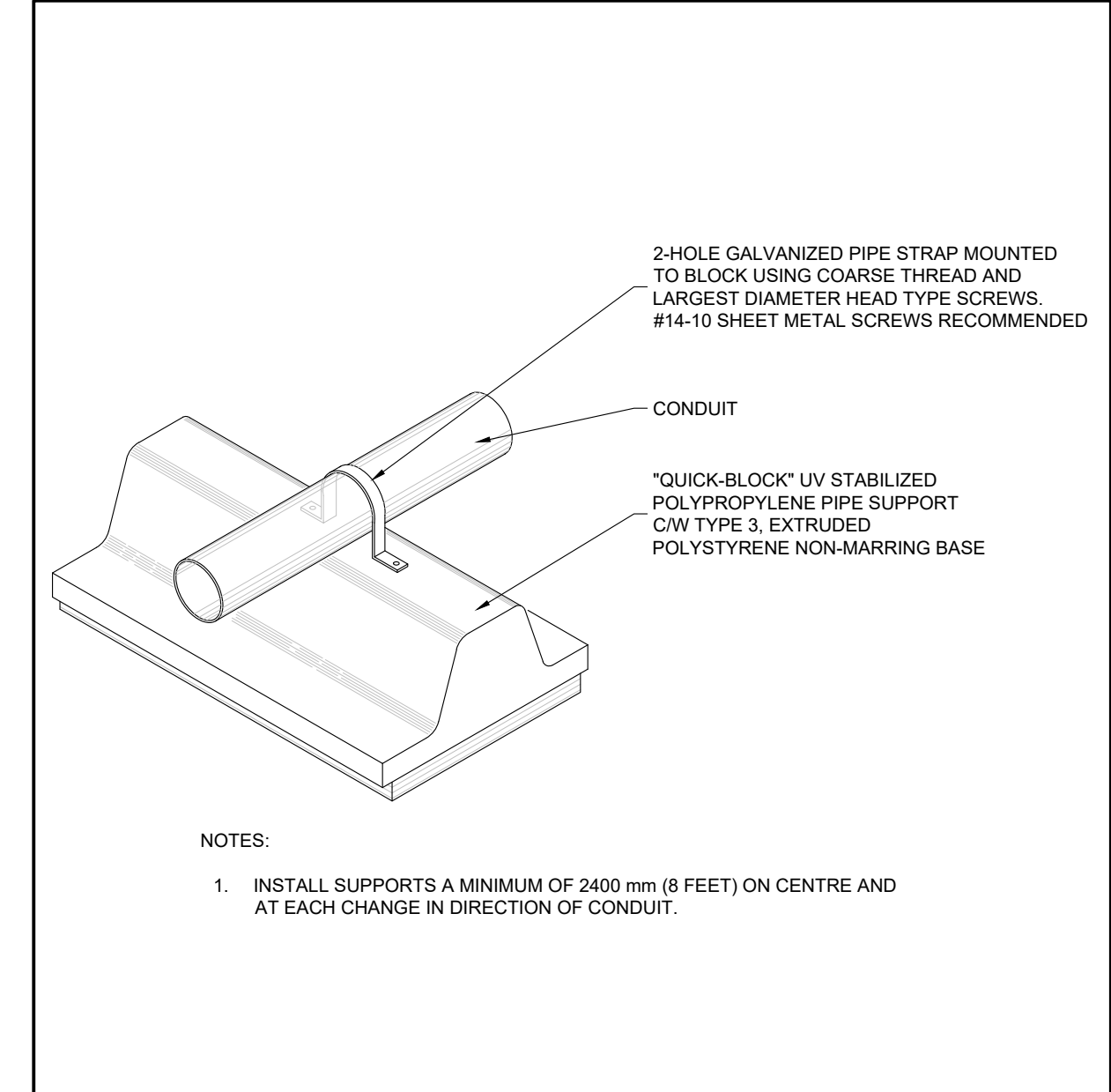
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

REVISIONS	
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 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM	
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: GION 145 @QUASARCG.COM	
PROJECT <div>145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3</div>	
TITLE FIRE ALARM ZONE SCHEDULE	
CHECKED TS	PROJECT No. GION 145
SCALE AS SHOWN	DRAWING No. E-300

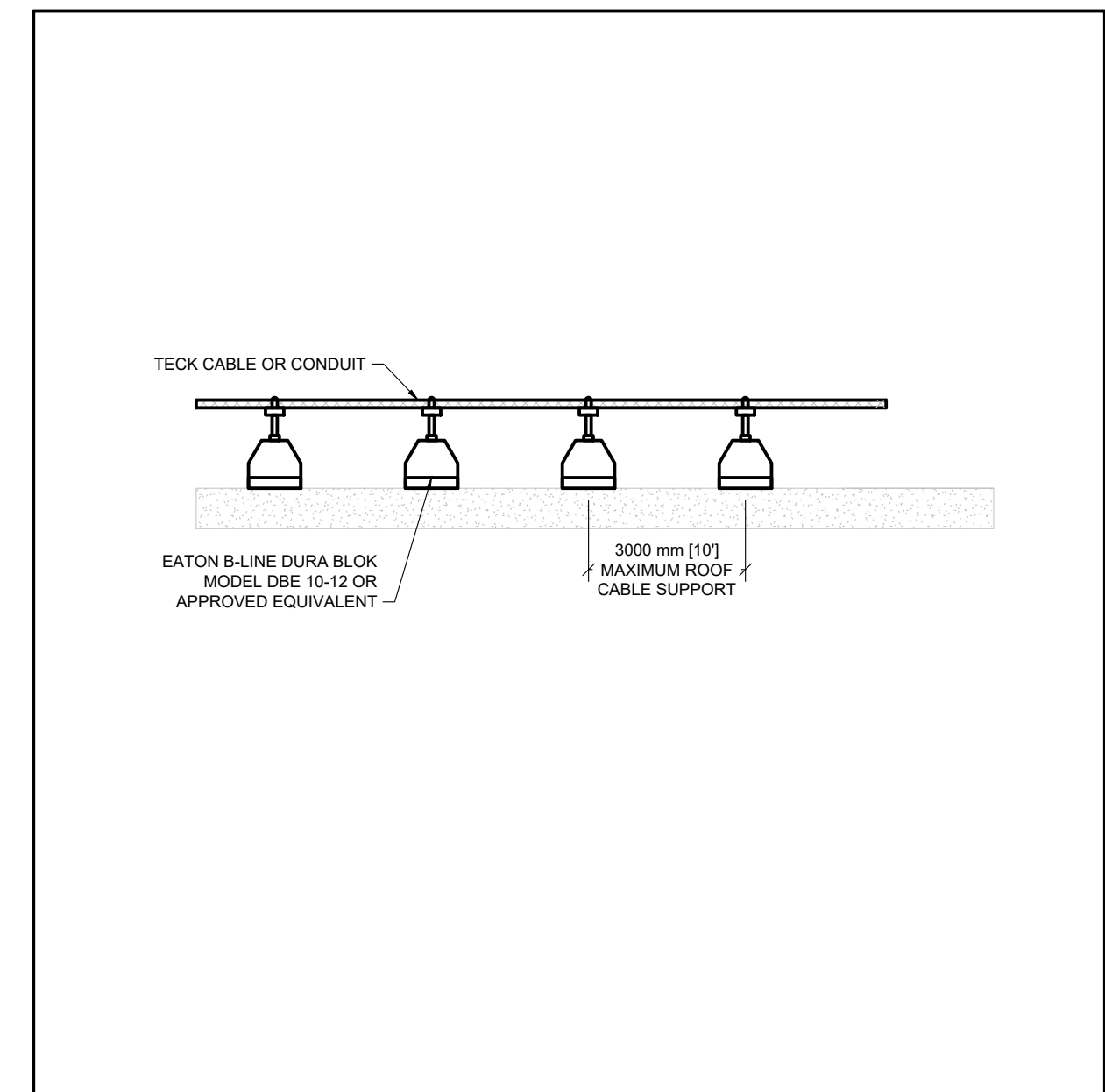




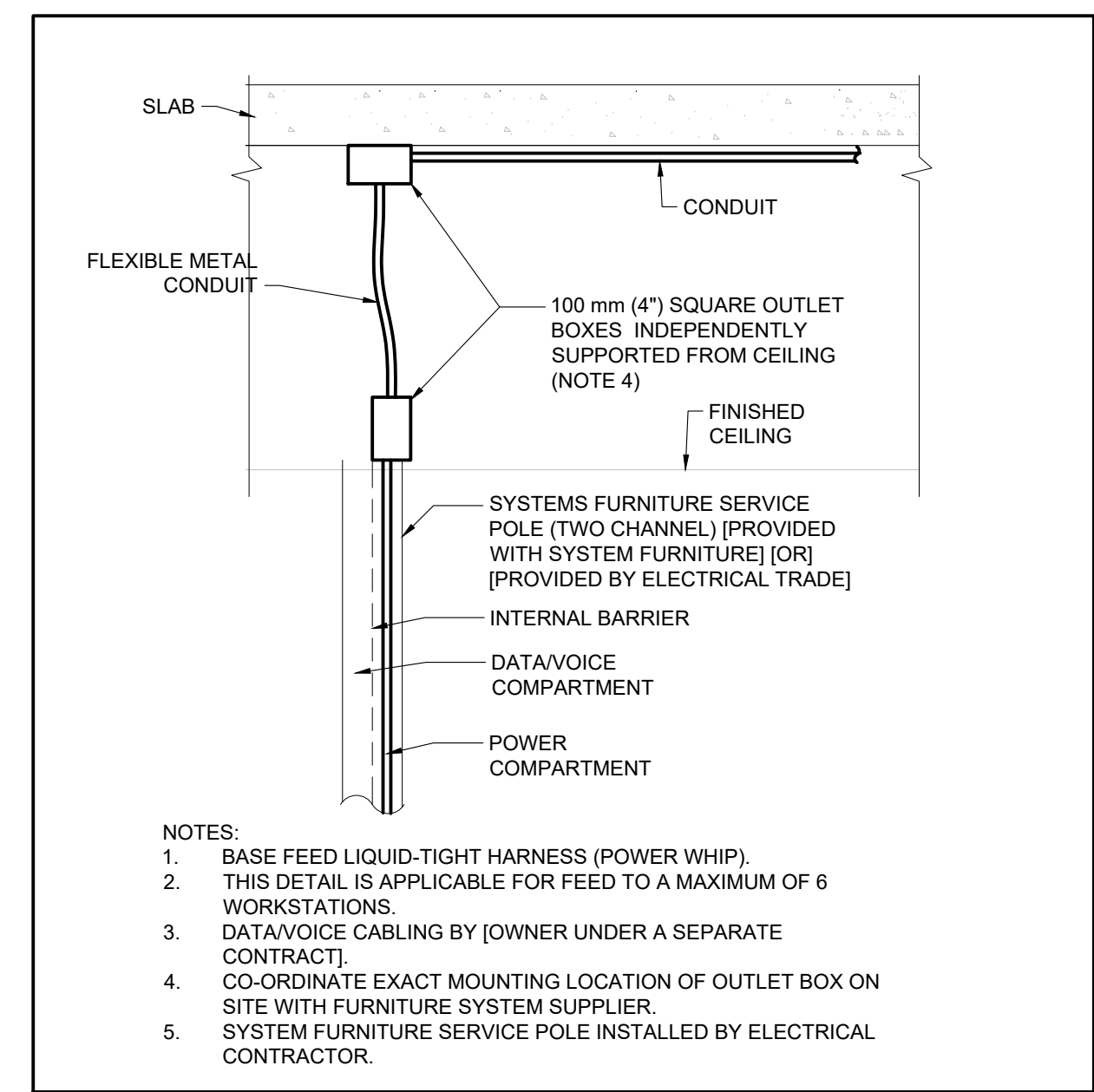
1 MECHANICAL PROTECTION OF EV CHARGERS TYPICAL DETAILS  
SCALE: 1:50



2 ROOF SUPPORT FOR CONDUIT  
SCALE: N.T.S.




3 ROOF MOUNTED CONDUIT OR CABLE SUPPORTS  
SCALE: N.T.S.



4 SYSTEM FURNITURE CEILING FEED  
SCALE: N.T.S.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
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No.	DATE	DESCRIPTION	CH'D

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PROJECT NORTH		
		
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM		
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: GION 145@QUASARCG.COM		
PROJECT		
HWP WAREHOSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3		
TITLE		
ELECTRICAL DETAILS		
CHECKED	TS	PROJECT No. GION 145
SCALE	AS SHOWN	DRAWING No. E-301

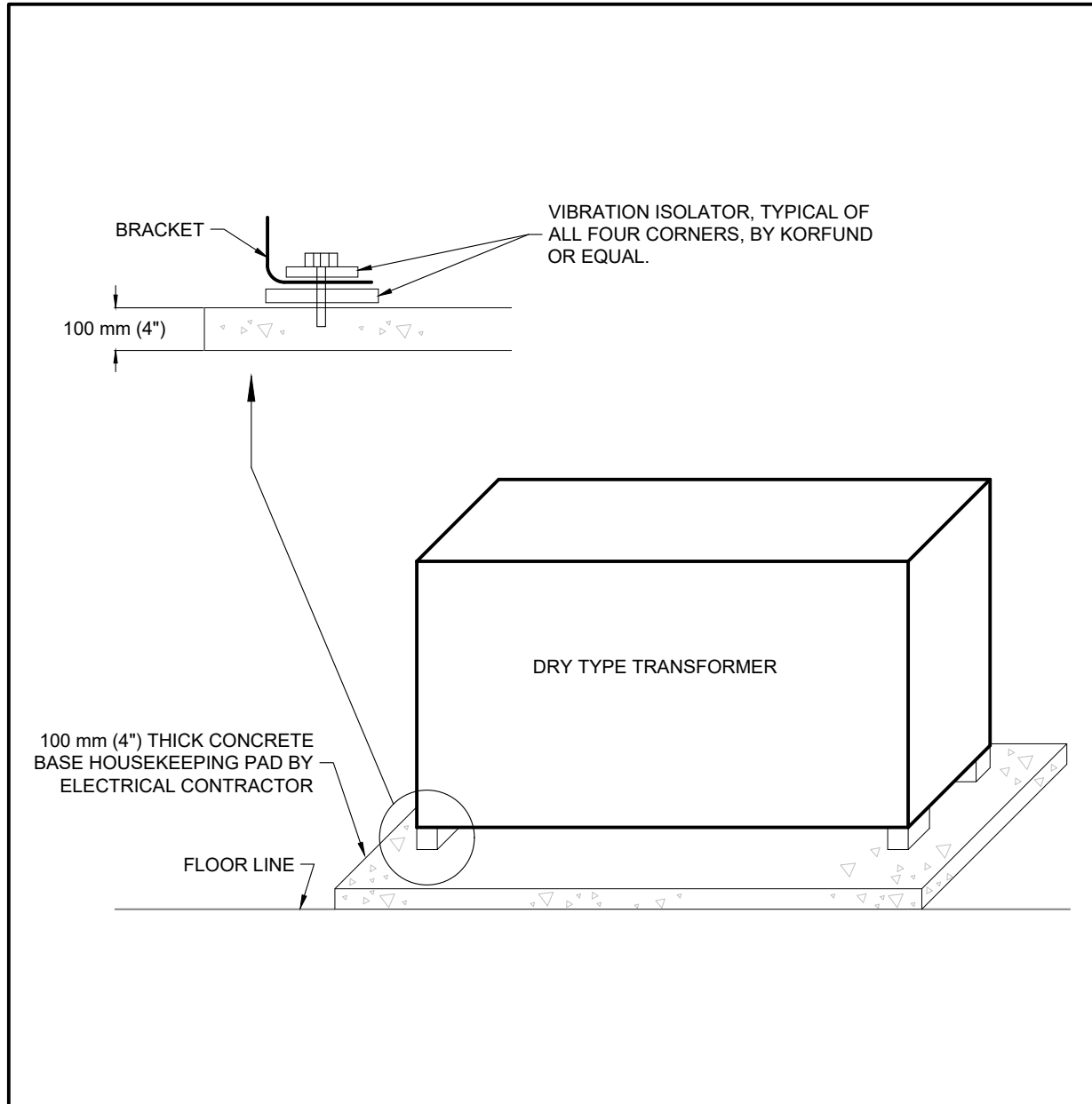




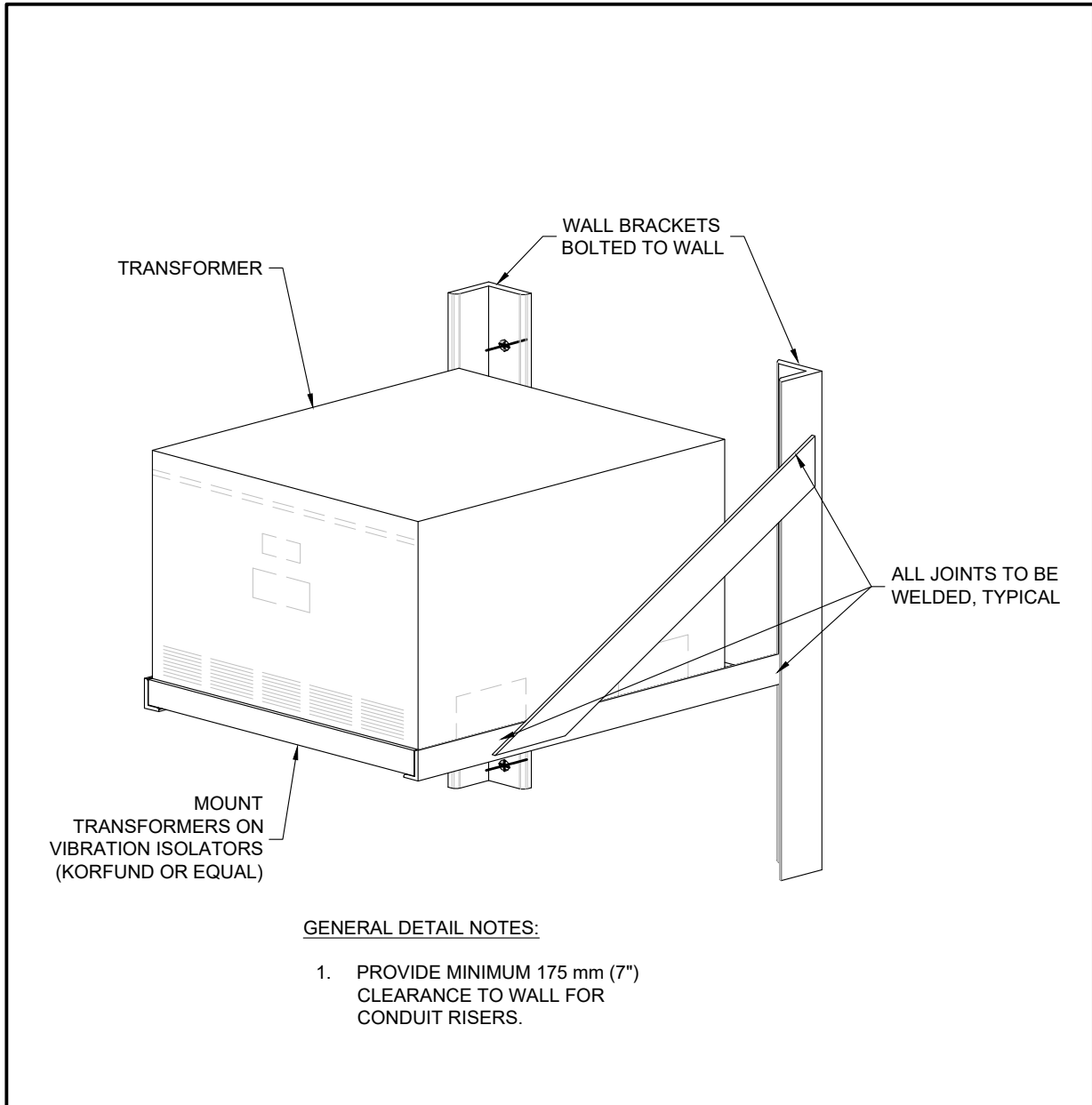




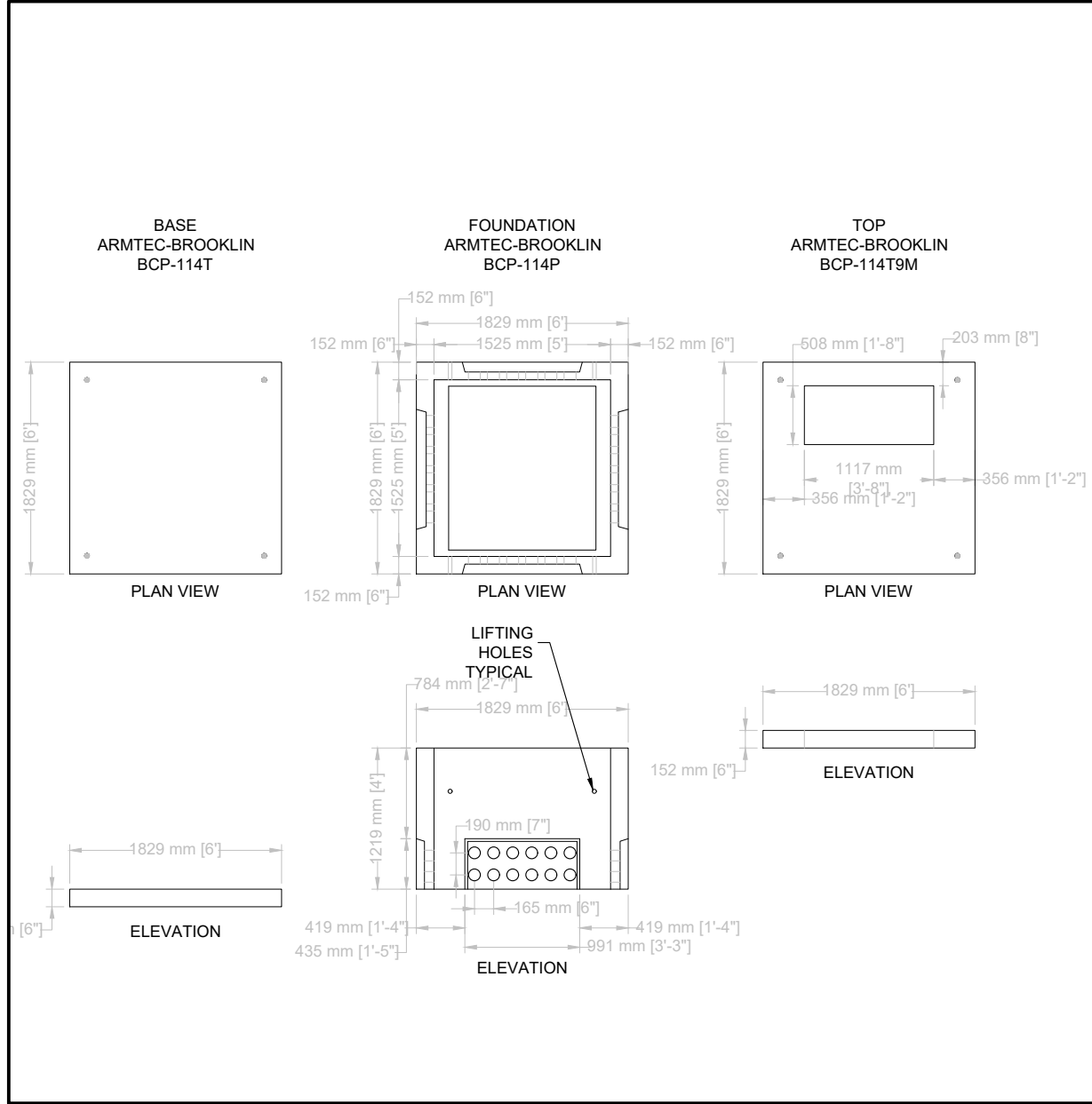




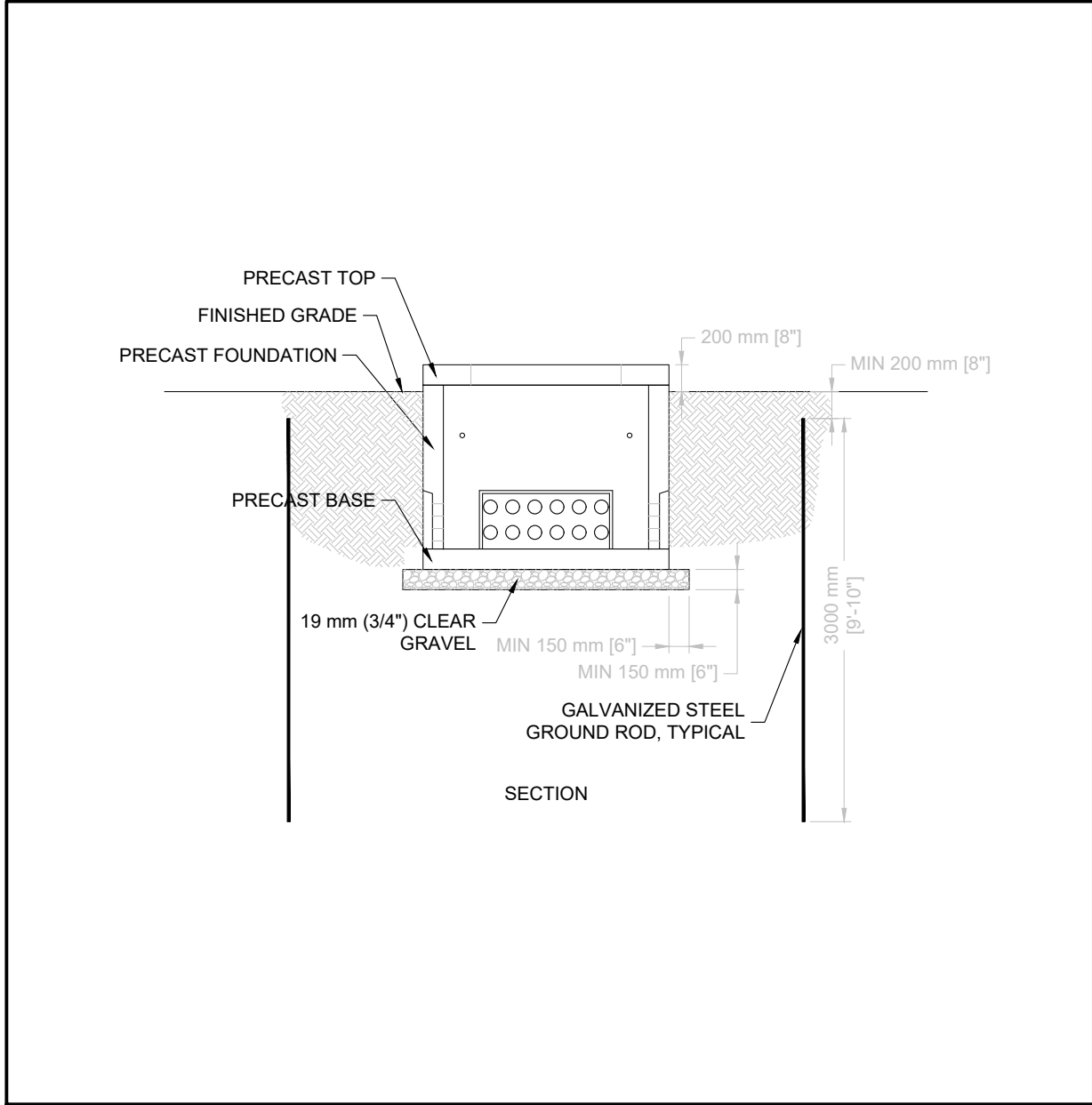
1 TRANSFORMER FLOOR MOUNTING ON CONCRETE PAD  
SCALE: N.T.S.



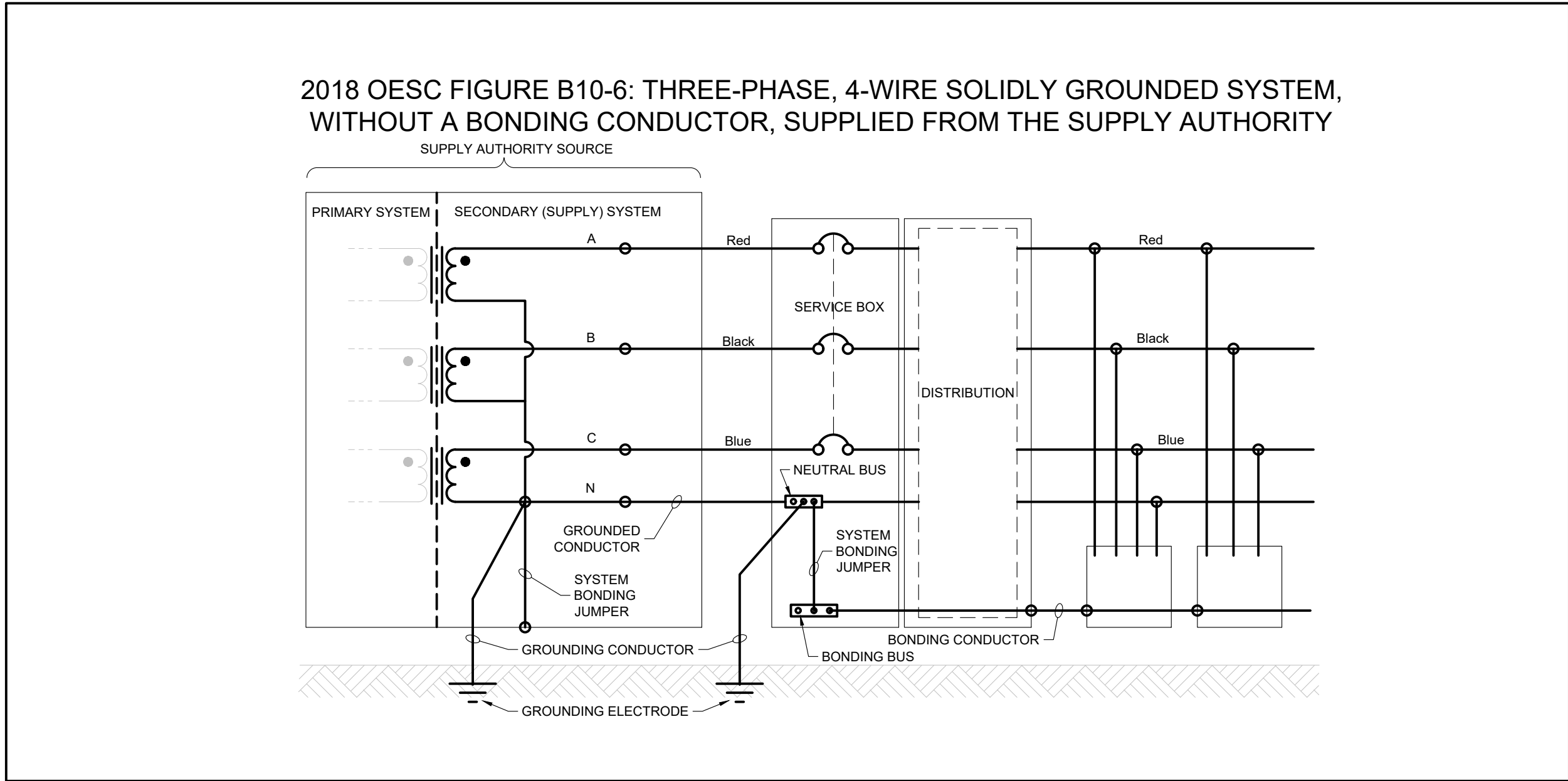
2 TRANSFORMER WALL MOUNTING  
SCALE: N.T.S.



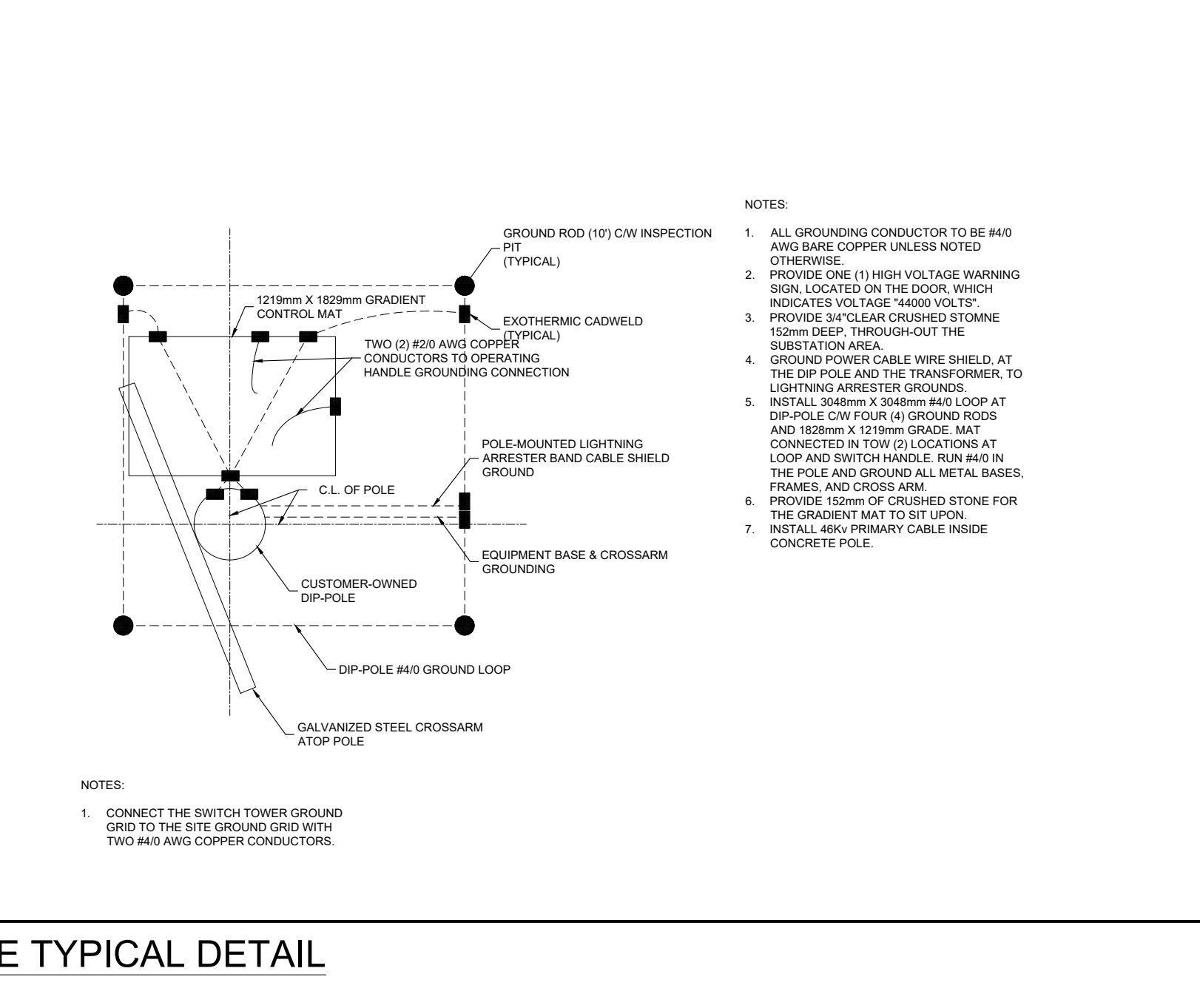
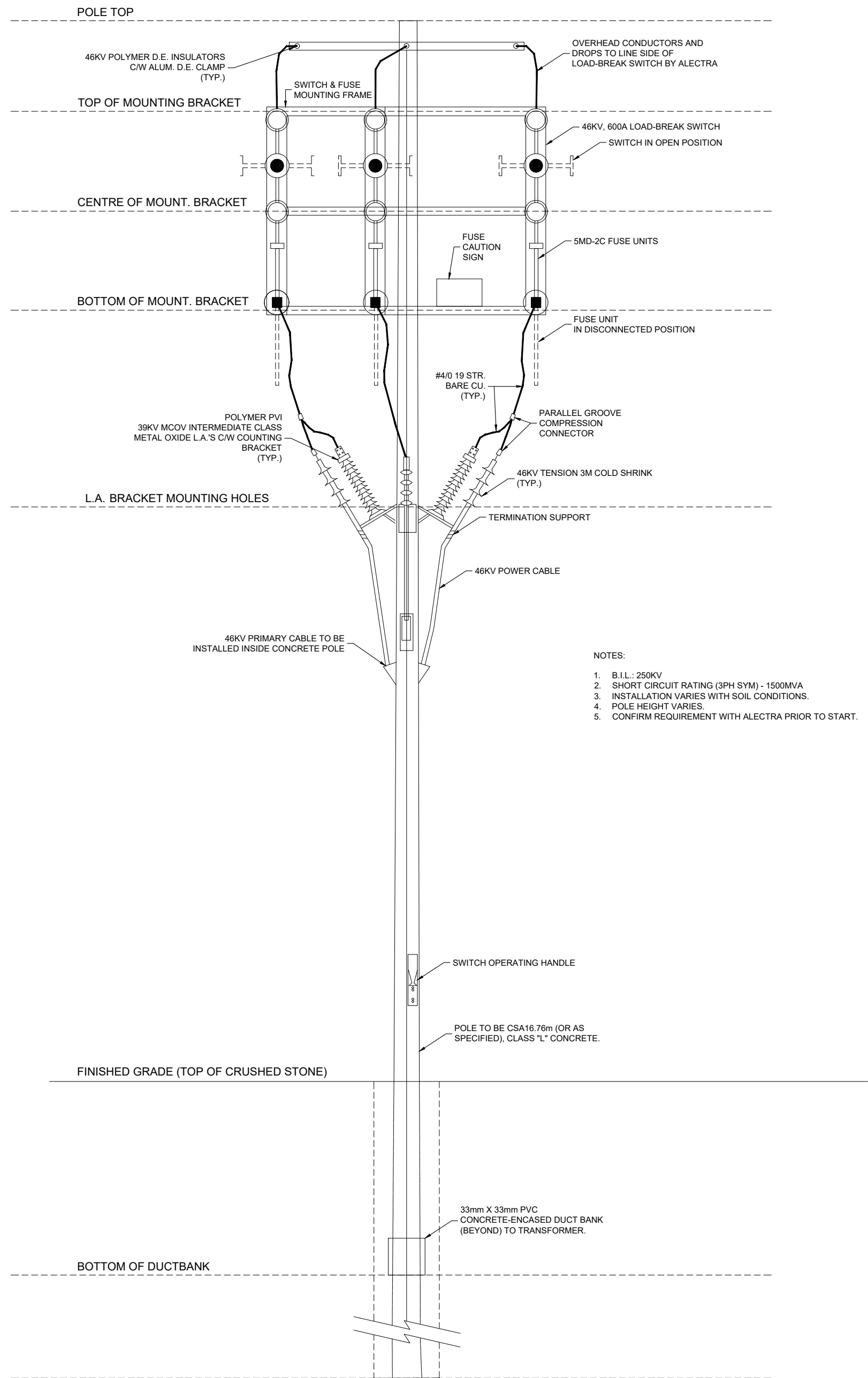
3 UTILITY PAD-MOUNTED TRANSFORMER FOUNDATION  
SCALE: N.T.S.



4 UTILITY PAD-MOUNTED TRANSFORMER FOUNDATION SECTION  
SCALE: N.T.S.



5 MAIN SWITCHBOARD GROUNDING  
SCALE: N.T.S.

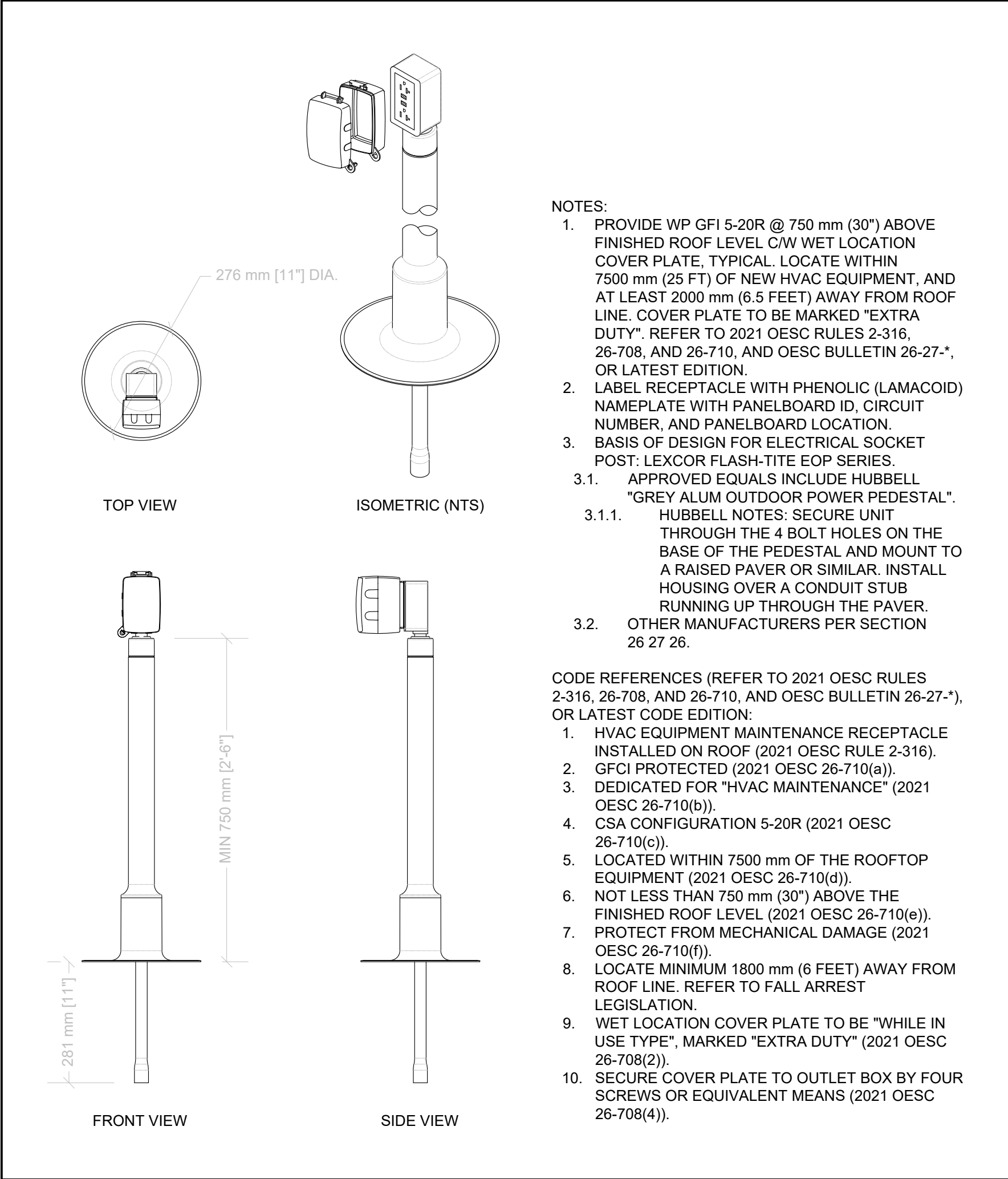


6 44KV DIP POLE TYPICAL DETAIL  
SCALE: N.T.S.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

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PROJECT NORTH		
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM		
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: GION 145@QUASARCG.COM		
PROJECT <b>HWP WAREHOUSE UPGRADE</b> <b>145 HARRY WALKER PARKWAY</b> <b>NEWMARKET</b> ON L3Y 7B3		
TITLE		
ELECTRICAL DETAILS 4		
CHECKED	TS	PROJECT No. GION 145
SCALE	AS SHOWN	DRAWING No. E-304









1 MAINTENANCE RECEPTACLE FOR ROOF MOUNTED HVAC EQUIPMENT  
SCALE: N.T.S.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
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No.	DATE	DESCRIPTION	CH'D

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 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM		
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: GION.145@QUASARCG.COM		
PROJECT HWP WAREHOSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3		
TITLE ELECTRICAL DETAILS 5		
CHECKED TS	PROJECT No. GION 145	
SCALE AS SHOWN	DRAWING No. E-305	

SCHEDULE 26 06 50.16.B - LED LIGHTING FIXTURE SCHEDULE								
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND CAT NO. (SEE NOTE 1)	VOLTAGE/ INPUT WATTS	LUMEN PACKAGE (3500 K CCT UNLESS NOTED OTHERWISE) MINIMUM 80 CRI	MOUNTING	REFERENCE	REMARKS
	HB	INDUSTRIAL HIGH BAY LIGHTING FIXTURE LED	DAY-BRITE CFI BY SIGNIFY - FBX LED HIGH BAY	347 V	MATCH EXISTING FIXTURES LUMEN PACKAGE	SUSPENDED AT THE SAME HEIGHT AS EXISTING HIGH BAY FIXTURES		REFER TO NOTE 4. ALLOW FOR THE COST OF INVESTIGATING THE EXISTING FIXTURES TECHNICAL DETAILS.
	A	RECESSED 2'x4' TROFFER OR FLAT PANEL LUMINAIRE, COMPATIBLE WITH LAY-IN CEILING. REFER TO CEILING SPECIFICATION FOR SPECIAL REQUIREMENTS.	CPXL LED FLAT PANEL SWITCHABLE LUMEN PANEL	347 V	4000/5000/6000 LM 35/40/50 K	RECESSED IN LAY-IN CEILING MH-9FT		
	B	8FT LED STRIP LIGHT	SIGNIFY FLUX STREAM MODEL NO FSS-8-60L-940-347	347V 23 WATTS	6000 LUMENS 4000K 80+ CRI	SURFACE MH-9FT		
	A1	4FT LED STRIP LIGHT	SIGNIFY FLUX STREAM MODEL NO FSS-4-40L-940-347	347V 48 WATTS	4000 LUMENS 4000K 80+ CRI	SURFACE MH-9FT		
LIGHTING FIXTURE SCHEDULE NOTES: 1. UNLESS NOTED OTHERWISE, ACCEPTED SUBSTITUTE MANUFACTURERS AND SUPPLIERS: ACUTY BRANDS LIGHTING, COOPER LIGHTING SOLUTIONS, CREE CANADA, HUBBELL LIGHTING, PIRELLA GÖTTSCHE LOWE, SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCOR/VISIONERRING. 2. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE. 3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER. 4. REUSE EXISTING REMOVED FIXTURES WHERE HB FIXTURES ARE SHOWN. PROVIDE NEW HB FIXTURES IF EXISTING REMOVED HB FIXTURES ARE NOT SUFFICIENT. 5. CONTRACTOR TO ALLOW FOR THE INVESTIGATION OF EXISTING HIGH BAY LIGHT FIXTURES MAKE MODEL AND PHOTOMETRIC ANALYSIS TO MATCH EXISTING LIGHTING LEVELS.								

1

LIGHTING FIXTURE SCHEDULE



SCALE: N.T.S.

LIGHTING CONTROLS MATRIX																			
SPACE TYPE	CONTROLS INTEGRATED INTO LUMINAIRES	STANDALONE CONTROL DEVICES	NETWORKED LIGHTING CONTROLS	MANUAL (ON/OFF) ONE ZONE ONLY FOR SPACE	MANUAL (ON/OFF) 4-10 ZONED SWITCHING	MANUAL DIMMING CONTROL	KEY SWITCH (KS)	SCENE CONTROL (SC) OR GRAPHIC TOUCHSCREEN	VACANCY MODE (MANUAL ON) (ASHRAE 90.1-2013 9.4.1.1b)	OCCUPANCY MODE (AUTO ON) (FULL)	OCCUPANCY MODE (AUTO ON) (PARTIAL)	AUTOMATIC PARTIAL OFF SENSOR TIME OUT (MINUTES) (ASHRAE 90.1-2013 9.4.1.1g)	AUTOMATIC PARTIAL OFF LUMINAIRE DIMMING LEVEL	FULL OFF SENSOR TIME OUT PERIOD (MINUTES) (ASHRAE 90.1-2013 9.4.1.1h)	SCHEDULE ON TIME	SCHEDULE OFF TIME	DAYLIGHT SENSOR	OTHER	REMARKS
															SWITCHING (ON/OFF)	DIMMING			
ELECTRICAL ROOMS AND SERVICE ROOMS	X		X																MANUAL CONTROLS ONLY.
OFFICE, SCADA LAB, SCADA SHOP	X				X				X		(3)			20 MINS					
STORAGE ROOMS	X	X							X	(2)				20 MINS					
WAREHOUSE GENERAL EXISTING LIGHTING																			EXISTING LIGHTING TO BE CONTROLLED WITH EXISTING LIGHTING CONTROL SYSTEM
NOTES: 1. LIGHTING CONTROL SEQUENCES OF OPERATION TO ASHRAE 90.1-2013. 2. SENSOR MAY BE CONFIGURED FOR FULL AUTO-ON AT OWNER'S PREFERENCE IN LIEU OF MANUAL ON. 3. SENSOR MAY BE CONFIGURED FOR PARTIAL AUTO-ON AT OWNER'S PREFERENCE IN LIEU OF MANUAL ON. 4. ELECTRICAL CONTRACTOR TO ALLOW FOR THE COST OF INVESTIGATING EXISTING LIGHTING CONTROL SYSTEM. CONNECT NEW WAREHOUSE AND STORAGE LIGHTING TO EXISTING CONTROLS.																			

2

LIGHTING CONTROLS MATRIX

SCALE: N.T.S.

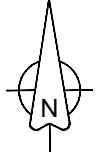

SCHEDULE 26 06 50.19 - EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE									
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND PRODUCT SERIES	VOLTAGE	LAMPS	MOUNTING	SPEC SECTION	REMARKS	
	E26	COMPACT REMOTE UNIT WITH DOUBLE HEAD LAMPS: MR16 LED LAMP, 12 V, 6 W, 540 LUMEN, 25 DEGREE BEAM ANGLE, FACTORY WHITE FINISH.	- LUMACELL MQM-2-LD10-BK SERIES LAMP PART NUMBER 580.0106-L - EMERGILITE EF9M SERIES	12 V	2 x 6 W MR16 LED 540 LUMEN / LAMP	WALL OR CEILING SURFACE	26 52 13.13	RECOMMENDED MAXIMUM SPACING 15 m (50 FEET) WHEN MOUNTED BETWEEN 2.1 AND 2.7 m (7 FEET TO 9 FEET) AFF.	
	EMB-3	12 V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, WITH DOUBLE HEADS, FACTORY WHITE FINISH, UNIVERSAL 120/347 VAC INPUT, AND SIX-ZONE VOLTAGE SENSING RELAY. TWO LAMPS: MR16 LED LAMP, 12 V, 6 W, 540 LUMEN, 25 DEGREE BEAM ANGLE.	-LUMACELL RG12S-[360]-2-LD10-AT-VSR SERIES -EMERGILITE ESL SERIES	120V-347V IN 12V OUT	2 x 6 W MR16 LED 540 LUMEN / LAMP	WALL	26 52 13.13		
EMERGENCY LIGHTING FIXTURE & EXIT SIGN SCHEDULE NOTES: 1. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIES MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE. 2. EXIT SIGNS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC AND 6 TO 48V DC INPUT. BATTERY UNITS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC INPUT. 3. FOR EXIT SIGNS, REFER TO ARROWS AND NUMBER OF SHADED FACES AS DIRECTED ON LIGHTING LAYOUT. WHERE ARROWS INDICATE TWO DIRECTIONS, PROVIDE TWO PICTOGRAM STYLE EXIT SIGNS. 4. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER. 5. MANUFACTURERS AS NOTED IN SECTION 26 52 13.13 AND SECTION 26 52 13.16. [OR] 6. MANUFACTURERS: AIMLITE, BELUCE (FORMERLY BEGHELLI), EMERGILITE, LITHONIA, LUMACELL, STANPRO. 7. REMOTE HEADS CERTIFIED TO CSA C22.2 No. 141. 8. CBCB - "CENTRE BEAM CANDLE POWER." 9. CONFIRM RECOMMENDED SPACING WITH EMERGENCY LIGHTING MANUFACTURER PRIOR TO START OF ROUGH-IN. WHERE AN EXIT SIGN IS TO BE INSTALLED IN AN AREA WITH NO CEILING, PROVIDE SUITABLE PENDANT MOUNT SUCH THAT THE SIGN IS VISIBLE AND NOT OBSCURED.									

3

EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE

SCALE: N.T.S.

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

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 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM		
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: GION.145@QUASARCG.COM		
PROJECT  HWP WAREHOSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3		
TITLE  LIGHTING SCHEDULES		
CHECKED  TS	PROJECT No. GION 145	
SCALE  AS SHOWN	DRAWING No. E-306	



26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: DP-WS				VOLTS: 347/600V				LOCATION: REFER TO PLANS					
MAIN BUS: 225A				PHASE: 3				FED FROM: EX 4000A MAIN SWBD					
MAIN BREAKER: 200A/3P				WIRE: 4				FEEDER ENTRY AT: TOP					
TYPE:				MOUNTING: SURFACE				FEEDER:					
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING:				REMARKS:					
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	RECEPTACLE	0	-	-	30A 3P	A	30A 3P	0	-	-	RECEPTACLE	2	
3		-	0	-		B		-	0	-		4	
5		-	-	0		C		-	-	0		6	
7	RECEPTACLE	0	-	-	30A 3P	A	30A 3P	0	-	-	RECEPTACLE	8	
9		-	0	-		B		-	0	-		10	
11		-	-	0		C		-	-	0		12	
13	RECEPTACLE	0	-	-	30A 3P	A	30A 3P	0	-	-	RECEPTACLE	14	
15		-	0	-		B		-	0	-		16	
17		-	-	0		C		-	-	0		18	
19	RECEPTACLE	0	-	-	30A 3P	A	30A 3P	0	-	-	RECEPTACLE	20	
21		-	0	-		B		-	0	-		22	
23		-	-	0		C		-	-	0		24	
25	RECEPTACLE	0	-	-	30A 3P	A	30A 3P	0	-	-	RECEPTACLE	26	
27		-	0	-		B		-	0	-		28	
29		-	-	0		C		-	-	0		30	
31	RECEPTACLE	0	-	-	30A 3P	A	90A	25000	-	-	TX-WS/RP-WS	32	
33		-	0	-		B		-	25000	-		34	
35		-	-	0		C		-	-	25000		36	
37		0	-	-		A		0	-	-		38	
39		-	0	-		B		-	0	-		40	
41		-	-	0		C		-	-	0		42	
TOTAL ØA: ____ W, TOTAL ØB: ____ W, TOTAL ØC: ____ W													

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE												
PANEL ID: RP-WD				VOLTS: 139/240V				LOCATION: REFER TO PLANS				
MAIN BUS: 225A				PHASE: 3				FED FROM: EX 4000A MAIN SWBD				
MAIN BREAKER: 150A/3P				WIRE: 4				FEEDER ENTRY AT: TOP				
TYPE:				MOUNTING: SURFACE				FEEDER:				
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING:				REMARKS:				
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	RECEPTACLE	0	-	-	50A 3P	A	50A 3P	0	-	-	RECEPTACLE	2
3		-	0	-		B		-	0	-		4
5		-	-	0		C		-	-	0		6
7	RECEPTACLE	0	-	-	50A 3P	A		0	-	-		8
9		-	0	-		B		-	0	-		10
11		-	-	0		C		-	-	0		12
13		0	-	-		A		0	-	-		14
15		-	0	-		B		-	0	-		16
17		-	-	0		C		-	-	0		18
19		0	-	-		A		0	-	-		20
21		-	0	-		B		-	0	-		22
23		-	-	0		C		-	-	0		24
25		0	-	-		A		0	-	-		26
27		-	0	-		B		-	0	-		28
29		-	-	0		C		-	-	0		30
31		0	-	-		A		0	-	-		32
33		-	0	-		B		-	0	-		34
35		-	-	0		C		-	-	0		36
37		0	-	-		A		0	-	-		38
39		-	0	-		B		-	0	-		40
41		-	-	0		C		-	-	0		42
TOTAL ØA: _____W, TOTAL ØB: _____W, TOTAL ØC: _____W												

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: RP-WS				VOLTS: 120/208V				LOCATION: REFER TO PLANS					
MAIN BUS: 400A				PHASE: 3				FED FROM:DP-WS/TX-WS					
MAIN BREAKER: 400A/3P				WIRE: 4				FEEDER ENTRY AT: TOP					
TYPE:				MOUNTING: SURFACE				FEEDER:					
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING:NEMA 2				REMARKS:					
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	2	
3	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	4	
5	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	6	
7	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	8	
9	2R: QUAD	-	720	-	20A	B	20A	-	0	-	SPARE	10	
11	SPARE	-	-	0	20A	C	20A	-	-	0	SPARE	12	
13	2R: QUAD	720	-	-	20A	A	20A	0	-	-	SPARE	14	
15	2R: QUAD/DUPLEX	-	540	-	20A	B	20A	-	720	-	2R: QUAD	16	
17	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	18	
19	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	20	
21	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	22	
23	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	24	
25	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	26	
27	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	28	
29	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	30	
31	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	32	
33	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	34	
35	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	36	
37	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	38	
39	2R: QUAD	-	720	-	20A	B	20A	-	540	-	2R: QUAD/DUPLEX	40	
41	SPARE	-	-	0	20A	C	20A	-	-	0	SPARE	42	
43	SPARE	0	-	-	20A	A	20A	360	-	-	2R: 20A DUPLEX	44	
45	2R: 20A DUPLEX	-	360	-	20A	B	20A	-	360	-	2R: 20A DUPLEX	46	
47	2R: 20A DUPLEX	-	-	360	20A	C	20A	-	-	360	2R: 20A DUPLEX	48	
49	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	50	
51	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	52	
53	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	54	
55	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	56	
57	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	58	
59	2R: QUAD	-	-	720	20A	C	20A	-	-	720	2R: QUAD	60	
61	2R: QUAD	720	-	-	20A	A	20A	720	-	-	2R: QUAD	62	
63	2R: QUAD	-	720	-	20A	B	20A	-	360	-	1R: QUAD	64	
65	2R: DUPLEX	-	-	360	20A	C	15A	-	-	540	3R: DUPLEX	66	
67	2R: DUPLEX	360	-	-	15A	A	20A	720	-	-	2R: QUAD	68	
69	2R: QUAD	-	720	-	20A	B	20A	-	720	-	2R: QUAD	70	
71	2R: DUPLEX	-	-	360	20A	C	20A	-	-	360	2R: CORD REEL	72	
73	2R: CORD REEL	350	-	-	20A	A	20A	360	-	-	2R:CORD REEL	74	
75	SPARE	-	0	-	20A	B	30A 2P	-	2500	-	DRYER	76	
77	WASHER	-	-	1400	15A	C		-	-	2500		78	
79	PANEL RP-SC/UPS 15KVA	5000	-	-	60A	A	20A	0	-	-	SPARE	80	
81		-	5000	-		B		-	0	-		82	
83		-	-	5000			C	-	-	-	0		84
TOTAL ØA: 18360W , TOTAL ØB: 18340W , TOTAL ØC: 18480W													
NOTES: * - PROVIDE LOCKABLE BREAKER ** - PROVIDE GFI TYPE BREAKER *** - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS R - RECEPTACLE L - LIGHTING													
CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.													

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

REVISIONS	
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26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE												
PANEL ID: DP-EV1			VOLTS: 120/208V			LOCATION: REFER TO PLANS						
MAIN BUS: 225A			PHASE: 3			FED FROM: EX 4000A MAIN SWBD						
MAIN BREAKER: 300A/3P			WIRE: 4			FEEDER ENTRY AT: TOP						
TYPE:			MOUNTING: SURFACE			FEEDER:						
INTERRUPTING CAPACITY: REFER TO SPECS			ENCLOSURE RATING:			REMARKS:						
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	EV CHARGER	0	-	-	50A 2P	A	50A 2P	0	-	-	EV CHARGER	2
3		-	0	-	B			-	0	-		4
5	EV CHARGER	-	-	0	50A 2P	C	50A 2P	-	-	0	EV CHARGER	6
7		0	-	-	A			0	-	-		8
9	EV CHARGER	-	0	-	50A 2P	B	50A 2P	-	0	-	EV CHARGER	10
11		-	-	0	C			-	-	0		12
13	EV CHARGER	0	-	-	50A 2P	A	50A 2P	0	-	-	EV CHARGER	14
15		-	0	-	B			-	0	-		16
17	EV CHARGER	-	-	0	50A 2P	C	50A 2P	-	-	0	EV CHARGER	18
19		0	-	-	A			0	-	-		20
21	EV CHARGER	-	0	-	50A 2P	B		-	0	-		22
23		-	-	0	C			-	-	0		24
25		0	-	-	A			0	-	-		26
27		-	0	-	B			-	0	-		28
29		-	-	0	C			-	-	0		30
31		0	-	-	A			0	-	-		32
33		-	0	-	B			-	0	-		34
35		-	-	0	C			-	-	0		36
37		0	-	-	A			0	-	-		38
39		-	0	-	B			-	0	-		40
41		-	-	0	C			-	-	0		42
TOTAL ØA: ____W , TOTAL ØB: ____W , TOTAL ØC: ____W												

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE												
PANEL ID: DP-M			VOLTS: 347/600V			LOCATION: REFER TO PLANS						
MAIN BUS: 225A			PHASE: 3			FED FROM: EX 4000A MAIN SWBD						
MAIN BREAKER: 150A/3P			WIRE: 4			FEEDER ENTRY AT: TOP						
TYPE:			MOUNTING: SURFACE			FEEDER:						
INTERRUPTING CAPACITY: REFER TO SPECS			ENCLOSURE RATING:NEMA 2			REMARKS:						
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	EF-5	1000	-	-	A			500	-	-	EF-9	2
3		-	1000	-	15A 3P	B	15A 3P	-	500	-		4
5		-	-	1000	C			-	-	500		6
7	MAU-1	900	-	-	A			900	-	-		8
9		-	900	-	15A 3P	B	15A 3P	-	900	-	MAU-2	10
11		-	-	900	C			-	-	900		12
13	MAU-3	1300	-	-	A			900	-	-		14
15		-	1300	-	15A 3P	B	15A 3P	-	900	-	MAU-4	16
17		-	-	1300	C			-	-	900		18
19	MAU-5	1300	-	-	A			900	-	-		20
21		-	1300	-	15A 3P	B	15A 3P	-	900	-	MAU-6	22
23		-	-	1300	C			-	-	900		24
25	DOCK LEVELER	500	-	-	A			500	-	-		26
27		-	500	-	20A 3P	B		-	500	-	REACH TRUCK CHARGER	28
29		-	-	500	C			-	-	500		30
31	CA-1	0	-	-	A			0	-	-		32
33		-	0	-	30A 3P	B		-	0	-		34
35		-	-	0	C			-	-	0		36
37		0	-	-	A			0	-	-		38
39		-	0	-	B			-	0	-		40
41		-	-	0	C			-	-	0		42
TOTAL ØA: 8700W , TOTAL ØB: 8700W , TOTAL ØC: 8700W												

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE												
PANEL ID: DP-EV2			VOLTS: 120/208V			LOCATION: REFER TO PLANS						
MAIN BUS: 225A			PHASE: 3			FED FROM: EX 4000A MAIN SWBD						
MAIN BREAKER: 300A/3P			WIRE: 4			FEEDER ENTRY AT: TOP						
TYPE:			MOUNTING: SURFACE			FEEDER:						
INTERRUPTING CAPACITY: REFER TO SPECS			ENCLOSURE RATING:			REMARKS:						
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	EV CHARGER	0	-	-	50A 2P	A	50A 2P	0	-	-	EV CHARGER	2
3		-	0	-	B			-	0	-		4
5	EV CHARGER	-	-	0	50A 2P	C		-	-	0		6
7		0	-	-	A			0	-	-		8
9		-	0	-	B			-	0	-		10
11		-	-	0	C			-	-	0		12
13		0	-	-	A			0	-	-		14
15		-	0	-	B			-	0	-		16
17		-	-	0	C			-	-	0		18
19		0	-	-	A			0	-	-		20
21		-	0	-	B			-	0	-		22
23		-	-	0	C			-	-	0		24
25		0	-	-	A			0	-	-		26
27		-	0	-	B			-	0	-		28
29		-	-	0	C			-	-	0		30
31		0	-	-	A			0	-	-		32
33		-	0	-	B			-	0	-		34
35		-	-	0	C			-	-	0		36
37		0	-	-	A			0	-	-		38
39		-	0	-	B			-	0	-		40
41		-	-	0	C			-	-	0		42
TOTAL ØA: ____W , TOTAL ØB: ____W , TOTAL ØC: ____W												

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE												
PANEL ID: RP-SC			VOLTS: 120/208V			LOCATION: REFER TO PLANS						
MAIN BUS: 100A			PHASE: 3			FED FROM: RP-WS						
MAIN BREAKER: 60A/3P			WIRE: 4			FEEDER ENTRY AT: TOP						
TYPE: NEMA 2			MOUNTING: SURFACE			FEEDER:						
INTERRUPTING CAPACITY: REFER TO SPECS			ENCLOSURE RATING:			REMARKS:						
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1		0	-	-	A	20A		0	-	-	SCADA RECEPTACLES	2
3		-	0	-	B	20A		-	0	-	SCADA RECEPTACLES	4
5		-	-	0	C	20A		-	-	0	SCADA RECEPTACLES	6
7		0	-	-	A	20A		0	-	-	SCADA RECEPTACLES	8
9		-	0	-	B	20A		-	0	-	SCADA RECEPTACLES	10
11		-	-	0	C	20A		-	-	0	SCADA RECEPTACLES	12
13		0	-	-	A	20A		0	-	-	SCADA RECEPTACLES	14
15		-	0	-	B	20A		-	0	-	SCADA RECEPTACLES	16
17		-	-	0	C	20A		-	-	0	SCADA RECEPTACLES	18
19		0	-	-	A	20A		0	-	-	SCADA RECEPTACLES	20
21		-	0	-	B			-	0	-		22
23		-	-	0	C			-	-	0		24
25		0	-	-	A			0	-	-		26
27		-	0	-	B			-	0	-		28
29		-	-	0	C			-	-	0		30
TOTAL ØA: ____W , TOTAL ØB: ____W , TOTAL ØC: ____W												

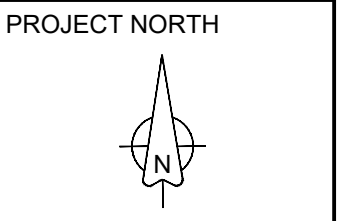
26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE												
PANEL ID: RP-M			VOLTS: 120/208V			LOCATION: REFER TO PLANS						
MAIN BUS: 400A			PHASE: 3			FED FROM: DP-MTX-M						
MAIN BREAKER: 250A/3P			WIRE: 4			FEEDER ENTRY AT: BOTTOM						
TYPE:			MOUNTING: SURFACE			FEEDER:						
INTERRUPTING CAPACITY: REFER TO SPECS			ENCLOSURE RATING: NEMA 2			REMARKS:						
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	BBH-1	2000	-	-	20A	A	15A 2P	1000	-	-	FFWH-1	2
3	BBH-2	-	2000	-	20A	B	15A 2P	-	1000	-		4
5	FFWH-3	-	-	1500	20A 2P	C	15A 2P	-	-	1000	FFWH-2	6
9		1500	-	-	20A 2P	A	15A 2P	1000	-	-		8
7	EF-1/EF-2/EF-3	-	638	-	20A	B	15A	-	746	-	EF-4	10
11	EF-6	-	-	373	15A	C	15A	-	-	186	EF-7	12
13	EF-8	373	-	-	15A	A	15A	100	-	-	EF-10	14
15	SAC-1	-	1248	-	15A 2P	B	15A 2P	-	1248	-	SAC-2	16
17		-	-	1248	15A 2P	C	15A 2P	-	-	1248		18
19	SAC-3	2496	-	-	30A 2P	A	15A 2P	1248	-	-	SAC-4	20
21		-	2496	-	30A 2P	B	15A 2P	-	1248	-		22
23	SCU-1	-	-	3744	45A 2P	C	45A 2P	-	-	3744	SCU-2	24
25		3744	-	-	45A 2P	A	45A 2P	3744	-	-		26
27	DBF-1	-	0	-	15A	B	40A 2P	-	2629	-	DHW-1	28
29	MD-1	-	-	100	15A	C	15A	-	-	2629		30
31	MD-2	100	-	-	15A	A	15A	100	-	-	MD-6	32
33	MD-3	-	100	-	15A	B	15A	-	100	-	MD-7	34
35	1R: ROOF	-	-	180	20A	C	20A	-	-	180	1R: ROOF	36
37	1R: ROOF	180	-	-	20A	A	20A	180	-	-	1R: ROOF	38
39	1R: ROOF	-	180	-	20A	B	20A	-	180	-	1R: ROOF	40
41	1R: ROOF	-	-	180	20A	C	20A	-	-	180	1R: ROOF	42
43	SPARE	0	-	-	15A	A	15A	100	-	-	1R-1/1R-2	44
45	SPARE	-	0	-	15A	B	20A	-	0	-	SPARE	46
47	SPARE	-	-	0	15A	C	20A	-	-	0	SPARE	48
49	SPARE	0	-	-	15A	A	20A	0	-	-	SPARE	50
51		-	0	-		B	20A	-	0	-	SPARE	52
53		-	-	0		C	-	-	0			54
55		0	-	-		A	0	-	-			56
57		-	0	-		B	-	0	-			58
59		-	-	0		C	-	-	0			60
61		0	-	-		A	0	-	-			62
63		-	0	-		B	-	0	-			64
65		-	-	0		C	-	-	0			66
67		0	-	-		A	0	-	-			68
69		-	0	-		B	-	0	-			70
71		-	-	0		C	-	-	0			72
TOTAL ØA: 19685W , TOTAL ØB: 13813W , TOTAL ØC: 16412W												
NOTES:												
* - PROVIDE LOCKABLE BREAKER												
** - PROVIDE GFI TYPE BREAKER												
*** - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS												
R - RECEPTACLE												
L - LIGHTING												
CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.												



EQUIPMENT DESCRIPTION	UNIT TAG	EQUIPMENT LOCATION	EQUIPMENT SUPPLIED BY	POWER REQUIREMENTS								STARTER						REMOTE CONTROL ITEM						INTERLOCK			ELECTRICAL REMARKS
				POWER / HP /KW	VOL TS/ PHASE	MCA	BREAKER	EMERGENCY LIFE SAFETY	EMERGENCY NONLIFE SAFETY	FED FROM	STARTER SUPPLIED BY	ISOLATION SWITCH	MANUAL	CONTACTOR	STARTER SUPPLIED BY	WIRING BY	REMOTE T-STAT AND VOLTAGE	FIRE ALARM SHUTDOWN	LIGHTING CONTROL SYSTEM (CCTV SENSOR)	BAS	WIRING BY	INTERLOCK WITH	CONDUIT BY	WIRING BY			
EXHAUST FAN	TSP-1	REFER TO MECHANICAL DRAWINGS	M	0.3	120/1		QSAVE							E					M								
EXHAUST FAN	EF-1	REFER TO MECHANICAL DRAWINGS	M	0.372	120/1		15A/ 1P							E					M								
EXHAUST FAN	EF-2	REFER TO MECHANICAL DRAWINGS	M	0.08	120/1		15A/ 1P							E					M								
EXHAUST FAN	EF-3	REFER TO MECHANICAL DRAWINGS	M	0.186	120/1		15A /1P							E					M								
EXHAUST FAN	EF-4	REFER TO MECHANICAL DRAWINGS	M	0.746	120/1		15A /1P							E					M								
EXHAUST FAN	EF-5	REFER TO MECHANICAL DRAWINGS	M	3.0	575/3		15A/3P							E					M								
EXHAUST FAN	EF-6	REFER TO MECHANICAL DRAWINGS	M	0.373	120/1		15A/1P							E					M								
EXHAUST FAN	EF-7	REFER TO MECHANICAL DRAWINGS	M	0.186	120/1		15A/1P							E					M								
EXHAUST FAN	EF-8	REFER TO MECHANICAL DRAWINGS	M	0.373	120/1		15A/1P							E					M								
EXHAUST FAN	EF-9	REFER TO MECHANICAL DRAWINGS	M	1.5	575/3		15A/3P							E					M								
EXHAUST FAN	EF-10	REFER TO MECHANICAL DRAWINGS	M	0.0372	120/1		15A/1P							E					M								
SPLIT UNIT HEAT PUMPS	SAC-1	REFER TO MECHANICAL DRAWINGS	M	3.95	208/1	0.24	15A/2P							E					M								
SPLIT UNIT HEAT PUMPS	SAC-2	REFER TO MECHANICAL DRAWINGS	M	3.95	208/1	0.24	15A/2P							E					M								
SPLIT UNIT HEAT PUMPS	SAC-3	REFER TO MECHANICAL DRAWINGS	M	7.03	208/1	2.73	30A/2P							E					M								
SPLIT UNIT HEAT PUMPS	SAC-4	REFER TO MECHANICAL DRAWINGS	M	3.95	208/1	0.24	15A/2P							E					M								
SPLIT UNIT HEAT PUMPS	SCU-1	REFER TO MECHANICAL DRAWINGS	M	12.31	208/1	36	45A/2P							E					M								
SPLIT UNIT HEAT PUMPS	SCU-2	REFER TO MECHANICAL DRAWINGS	M	12.31	208/1	36	45A/2P							E					M								
MOTORIZED DAMPER	MD-1	REFER TO MECHANICAL DRAWINGS	M	7.5 VA	120/1		15A/1P							E					M								
MOTORIZED DAMPER	MD-2	REFER TO MECHANICAL DRAWINGS	M	7.5 VA	120/1		15A/1P							E					M								
MOTORIZED DAMPER	MD-3	REFER TO MECHANICAL DRAWINGS	M	7.5 VA	120/1		15A/1P							E					M								
MOTORIZED DAMPER	MD-6	REFER TO MECHANICAL DRAWINGS	M	7.5 VA	120/1		15A/1P							E					M								
MOTORIZED DAMPER	MD-7	REFER TO MECHANICAL DRAWINGS	M	7.5 VA	120/1		15A/1P							E					M								
ELECTRIC BASEBOARD HEATER	BBH-1	REFER TO MECHANICAL DRAWINGS	M	2.0	120/1		20A /1P							E					M								
ELECTRIC BASEBOARD HEATER	BBH-2	REFER TO MECHANICAL DRAWINGS	M	2.0	120/1		20A /1P							E					M								
FORCED FLOW ELECTRIC HEATER	FFWH-1	REFER TO MECHANICAL DRAWINGS	M	2.0	208/1		15A/2P							E					M								
FORCED FLOW ELECTRIC HEATER	FFWH-2	REFER TO MECHANICAL DRAWINGS	M	2.0	208/1		15A/2P							E					M								
FORCED FLOW ELECTRIC HEATER	FFWH-3	REFER TO MECHANICAL DRAWINGS	M	3.0	208/1		20A/2P							E					M								
INDIRECT GAS FIRED-MAKE UP AIR UNIT	MAU-1	REFER TO MECHANICAL DRAWINGS	M	2.0 HP	575/3	8.60	15A/3P							E					M				MECHANICAL TRADE TO PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH. HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. ELECTRICAL TRADE TO PROVIDE 120V POWER FOR CONTROL PANEL.				
INDIRECT GAS FIRED-MAKE UP AIR UNIT	MAU-2	REFER TO MECHANICAL DRAWINGS	M	2.0 HP	575/3	8.60	15A/3P							E					M				MECHANICAL TRADE TO PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH. HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. ELECTRICAL TRADE TO PROVIDE 120V POWER FOR CONTROL PANEL.				
INDIRECT GAS FIRED-MAKE UP AIR UNIT	MAU-3	REFER TO MECHANICAL DRAWINGS	M	3.0 HP	575/3	10.10	15A/3P							E					M				MECHANICAL TRADE TO PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH. HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. ELECTRICAL TRADE TO PROVIDE 120V POWER FOR CONTROL PANEL.				
INDIRECT GAS FIRED-MAKE UP AIR UNIT	MAU-4	REFER TO MECHANICAL DRAWINGS	M	2.0 HP	575/3	8.60	15A/3P							E					M				MECHANICAL TRADE TO PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH. HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. ELECTRICAL TRADE TO PROVIDE 120V POWER FOR CONTROL PANEL.				
INDIRECT GAS FIRED-MAKE UP AIR UNIT	MAU-5	REFER TO MECHANICAL DRAWINGS	M	3.0 HP	575/3	10.10	15A/3P							E					M				MECHANICAL TRADE TO PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH. HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. ELECTRICAL TRADE TO PROVIDE 120V POWER FOR CONTROL PANEL.				
INDIRECT GAS FIRED-MAKE UP AIR UNIT	MAU-6	REFER TO MECHANICAL DRAWINGS	M	2.0 HP	575/3	8.60	15A/3P							E					M				MECHANICAL TRADE TO PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH. HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. ELECTRICAL TRADE TO PROVIDE 120V POWER FOR CONTROL PANEL.				
RESIDENTIAL DRYER BOOSTER	DBF-1	REFER TO MECHANICAL DRAWINGS	M	70	115/1	0.5	15A/1P							E					M				ELECTRICAL TRADE TO PROVIDE FIRE ALARM ZONE FOR MONITORING GAS DETECTION SYSTEM.				
DOMESTIC HOT WATER	DHW-1	REFER TO MECHANICAL DRAWINGS	M	7	208/1		40A/2P							E					M								
GAS FIRED INFRARED TUBE HEATER	IR-1	REFER TO MECHANICAL DRAWINGS	M	23	115/1		15A/1P							E					M								
GAS FIRED INFRARED TUBE HEATER	IR-2	REFER TO MECHANICAL DRAWINGS	M	44	115/1		15A/1P							E					M								
AIR COMPRESSOR	CA-1	REFER TO MECHANICAL DRAWINGS	M	11	575/3		30A/3P							E					M								

10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

THE SPECIFICATIONS ARE TO BE  
CONSIDERED AS AN INTEGRAL PART OF  
THESE DRAWINGS AND NEITHER THE  
DRAWINGS NOR THE SPECIFICATIONS  
SHALL BE USED ALONE. REFER TO  
ARCHITECTURAL DRAWINGS FOR  
DIMENSIONS. DO NOT SCALE.



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
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WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
GION 145 @QUASARCG.COM

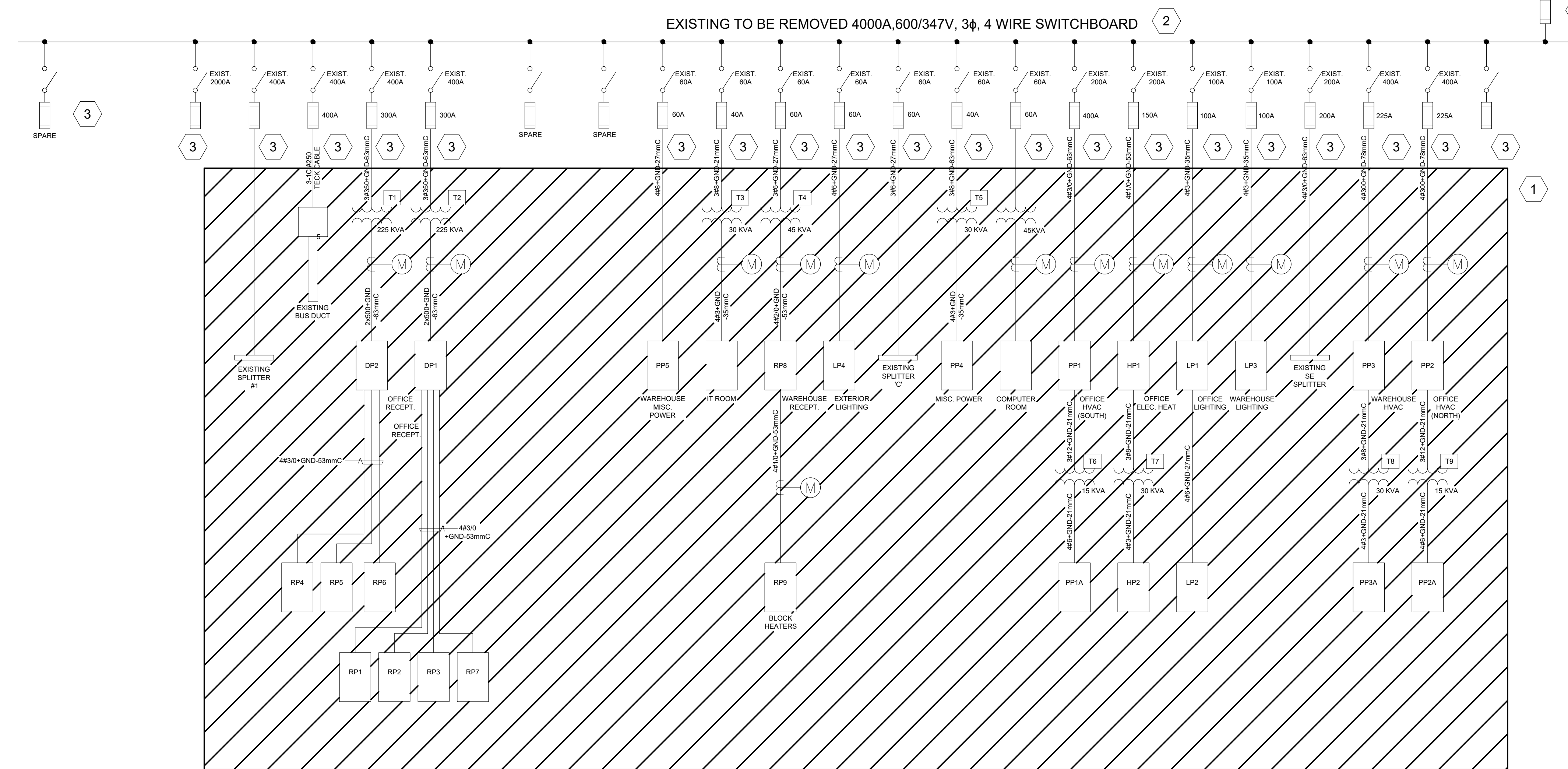
PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3


**TITLE**

## ELECTRICAL SCHEDULES

CHECKED	PROJECT No.
TS	GION 145
SCALE	DRAWING No.
AS SHOWN	E-309



1. EQUIPMENT, DEVICES, AND ELECTRICAL FEEDERS IN HATCHED AREA ARE EXISTING TO REMAIN.
2. EXISTING 4000A, 378600V SWITCHBOARD IS FEDERAL PIONEER NO I14-31104A. TO BE REMOVED.
3. ELECTRICAL CONTRACTOR TO VISIT AND INVESTIGATE SITE PRIOR TO TENDER. USE EXISTING CONDUIT PATHWAYS TO ROUTE NEW ELECTRICAL FEEDERS FROM ELECTRICAL ROOM TO THE NEW PANELBOARDS LOCATED IN THE WAREHOUSE AREA. MAINTAIN AND PROTECT ALL EXISTING FEEDERS TO EXISTING DISTRIBUTION EQUIPMENT DURING THE REMOVAL OF THE EXISTING FEEDERS TO BE RE-CONNECTED TO THE NEW SWITCHBOARDS AS SHOWN IN THE NEW SINGLE LINE DIAGRAM IN SHEET E-501
4. EXISTING MAIN DISCONNECT SWITCH TO BE REMOVED.

<p style="text-align: center;">REVISIONS</p>	
<p>THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.</p>	<p>PROJECT NORTH</p> 



FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE	EXISTING SINGLE LINE DIAGRAM
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CHECKED	PROJECT No.
TS	GION 145
SCALE	DRAWING No.
N.T.S	E-500



