



YORK REGION PRS #32 RFTC-604-22-10

53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

ARCHITECT
THOMAS BROWN ARCHITECTS INC.
197 SPADINA STREET, SUITE 500
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WWW.TBROWNARCH.COM

ARCHITECTURAL DRAWING LIST

SHEET	TITLE
A0.0	DRAWING INDEX & OBC MATRIX
A0.1	GUIDE TO USE OF DRAWING, TYPICAL DETAIL LIST, ABBREVIATIONS
A0.2	EXTERIOR & INTERIOR ASSEMBLIES
A0.3	FIXTURE MOUNTING HEIGHTS
A1.1	FIRE, LIFE SAFETY, & AODA REQUIREMENTS
A1.2	OBC LIMITING DISTANCE REVIEW
A2.1	SITE SURVEY
A2.2	SITE DEMOLITION, SITE DETAILS
A2.3	TREE INVENTORY / REMOVAL / PRESERVATION PLAN
A2.4	SITE PLAN & SITE PLAN STATISTICS
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A2.7	SITE PLAN DETAILS
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A12.1	MILLWORK PLANS, ELEVATIONS, AND DETAILS
A12.2	MILLWORK DETAILS
A13.1	DOOR FINISH SCHEDULE

STRUCTURAL CONSULTANT
STEPHENSON ENGINEERING LTD
2550 VICTORIA PARK AVE #602
TORONTO, ON M2J 5A9
TEL: (416) 655-9970
WWW.STEPHENSON-ENG.COM

STRUCTURAL DRAWING LIST

SHEET	TITLE
S3-02	Unnamed
S3-03	Unnamed
S1-01	FOUNDATION PLAN
S1-02	ROOF FRAMING PLAN
S2-01	COLUMN SCHEDULE AND FOUNDATION PLAN DETAILS
S3-01	FOUNDATION SECTIONS
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S5-06	TYPICAL DETAILS
S5-07	TYPICAL DETAILS

MECHANICAL CONSULTANT
ZON ENGINEERING
360 WOOLWICH STREET
GUELPH, N1H 3W6
TEL: 1-888-338-6363
WWW.ZONENGINEERING.COM

MECHANICAL DRAWING LIST

SHEET	TITLE
M1.0	SITE PLAN AND LEGEND
M2.0	SCHEDULES
M2.1	SCHEDULES
M3.0	PLUMBING & DRAINAGE
M4.0	ROOF AND HVAC
M5.0	PART PLAN - MECHANICAL / ELECTRICAL ROOM
M6.0	DETAILS
M6.1	DETAILS
M7.0	GAS AND PLUMBING SCHEMATICS
M7.1	REFRIGERANT PIPING SCHEMATIC
M8.0	FIRE PROTECTION
M8.1	FIRE PROTECTION DETAILS

ELECTRICAL CONSULTANT
KIRKLAND ENGINEERING
570 WATER STREET
PETERBOROUGH, ON K9H 3M8
TEL: (705) 745-2831
WWW.KIRKLANDENG.COM

ELECTRICAL DRAWING LIST

SHEET	TITLE
E1	LEGEND, SCHEDULES AND DRAWING LIST
E2	ELECTRICAL SITE PLAN AND DETAILS
E3	ELECTRICAL SITE PLAN DETAILS (ALECTRA)
E4	POWER AND SYSTEMS PLAN AND DETAILS
E5	SECURITY PLAN LEGEND AND DETAILS
E6	LIGHTING PLAN AND DETAILS
E7	FIRE ALARM PLAN AND DETAILS
E8	PANEL SCHEDULES AND SINGLE LINE DIAGRAM
E9	LIGHTING CONTROL SCHEMATICS
E10	ELECTRICAL SITE PLAN DETAILS (ALECTRA)
E11	ELECTRICAL SITE PLAN DETAILS (ALECTRA)

LANDSCAPE CONSULTANT
HARRINGTON MCAVAN LTD
41 MAIN ST UNIONVILLE UNIT 102
UNIONVILLE, ON L3R 2E5
TEL: (905) 294-9282
WWW.HARRINGTONMCAVAN.COM

LANDSCAPE DRAWING LIST

SHEET	TITLE
L1	LANDSCAPE PLAN AND DETAILS

SITE SERVICING CONSULTANT
MGM CONSULTING INC.
400 BRONTE STREET SOUTH
MILTON, ON L9T 0H7
TEL: (905) 875-1228
WWW.MGM.ON.CA

CIVIL DRAWING LIST

SHEET	TITLE
CV-1	SEDIMENT & EROSION CONTROL & REMOVALS PLAN
CV-2	SERVICING PLAN
CV-3	GRADING PLAN
CV-4	DETAILS

ONTARIO BUILDING CODE DATA MATRIX

PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

OBC REFERENCE [1]

Name of Practice		THOMAS BROWN ARCHITECTS INC.		Name of Project		YORK REGION PRS #32		
Address 1		197 Spadina Avenue, Suite 500		Location/Address		53 Jacob Kaffer Parkway		
Address 2		Toronto, ON M5T 2C8		Contact		Chris Kubbinga		
3.00 BUILDING CODE VERSION		O.Reg. 332/12		LAST AMENDMENT		O.Reg. 762/20		
3.01 PROJECT TYPE		New Construction				[A] 1.1.2.		
		Construction of New Paramedic Response Station						
3.02 MAJOR OCCUPANCY CLASSIFICATION		OCCUPANCY		USE		3.1.2.1.(1)		
		D	Business & Personal Services	Office				
		F3	Low Hazard Industrial	Storage Garage				
3.03 SUPERIMPOSED MAJOR OCCUPANCIES		N/A				3.2.2.7.		
		N/A						
3.04 BUILDING AREA (m²)		DESCRIPTION		EXISTING		NEW		
		Building Footprint		0.00		490.00		
		TOTAL		-		490.00		
						490.0		
3.05 GROSS AREA (m²)		DESCRIPTION		EXISTING		NEW		
		1st Storey		0.00		490.00		
		TOTAL		-		490.00		
						490.0		
3.06 MEZZANINE AREA (m²)		DESCRIPTION		EXISTING		NEW		
		N/A		0.00		0.00		
		TOTAL		-		-		
3.07 BUILDING HEIGHT		1	STOREYS ABOVE GRADE	7.50		(m) ABOVE GRADE		
		0	STOREYS BELOW GRADE			[A] 1.4.1.2. & 3.2.1.1.		
3.08 HIGH BUILDING		No				3.2.6		
3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS		1	STREET(S)			3.2.2.10. & 3.2.5.		
3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)		3.2.2.56.	Group D, up to 2 Storeys, Sprinklered			3.2.2.20-83.		
		3.2.2.79.	Group F, Division 3, up to 2 Storeys, Sprinklered					
3.11 SPRINKLER SYSTEM		Required	PROVIDED:	Entire Building		3.2.1.5. & 3.2.2.17.		
		DESCRIBE	Sprinkler System is part of Contract scope				3.2.9.	
3.12 STANDPIPE SYSTEM		Not Required				3.2.9.		
3.13 FIRE ALARM SYSTEM		Required	TYPE PROVIDED		Single Stage		3.2.4.	
		Fire Alarm System provided as part of Contract						
3.14 WATER SERVICE/ SUPPLY IS ADEQUATE		Yes						
3.15 CONSTRUCTION TYPE		RESTRICTIONS	Combination Permitted			3.2.2.20-83.		
		ACTUAL	Noncombustible	HEAVY TIMBER CONSTRUCTION		N/A		
						3.2.1.4.		
3.16 IMPORTANCE CATEGORY		Post-Disaster		-		4.1.2.1.(3), 4.1.2.1.B.		
3.17 SEISMIC HAZARD INDEX (IE Fa Sa (0.2)) =		0.28	Seismic Design Required for Table 4.1.8.18. Items 6 to 21				4.1.8.18.(1)	
3.18 REASONING FOR REQUIREMENT		Importance Category				4.1.8.18.(2)		
3.19 OCCUPANT LOAD		FLOOR LEVEL/AREA		OCCUPANCY TYPE		BASED ON		
		First Floor		Group D		Design of space		
		TOTAL				18		
						18		
3.20 HAZARDOUS SUBSTANCES		No				3.3.1.2. & 3.3.1.19.		
3.21 REQUIRED FIRE SEPARATIONS		1.5 Hr	Storage Garage Separation Between Group D & F3				3.3.5.6	
		1hr	Mechanical / Electrical Room (Service Room)				3.6.2.1	
3.22 REQUIRED FIRE RESISTANCE RATINGS		HORIZONTAL ASSEMBLY		RATING (H)		LISTED DESIGN NO. ULC OR ASSEMBLY SB-2		
		FLOORS		45 min		N/A		
		MEZZANINE		N/A		N/A		
		ROOF		N/A		N/A		
		SUPPORT ASSEMBLY		RATING (H)		LISTED DESIGN NO. ULC OR ASSEMBLY SB-2		
		FLOORS		45 min		N/A		
		MEZZANINE		N/A		N/A		
		ROOF		N/A		N/A		
3.23 SPATIAL SEPARATION		WALL	EBF AREA (m²)	L.D. (m) OBC	L/H OR H/L	REQUIRED FRR	CONSTRUCTION TYPE	
		North	115	7.00	N/A	45min	Combination	
		West	134	9.00	N/A	N/R	Combination	
		East	106	27.00	N/A	N/R	Combination	
		South	115	11.00	N/A	N/R	Combination	
		WALL	L.D. (m) OBC	L.D. (m) ACTUAL	Permitted Max. % of Openings	Proposed % of Openings	Listed Design or Description	
		North	7.00	7.09	82.59%	1.74%	290 Masonry Block Wall	
		West	9.00	32.70	100.00%	32.09%	N/A	
		East	27.00	27.39	100.00%	26.42%	N/A	
		South	11.00	12.00	100.00%	4.35%	N/A	
3.24 BARRIER-FREE DESIGN		Yes				3.8.		
3.25 BARRIER-FREE ENTRANCES		No. OF ENTRANCES PEDESTRIAN ENTRANCES				1		
		No. OF ENTRANCES REQ'D TO BE BARRIER FREE				1		
3.26 BUILDING EXISTS		DESCRIPTION	REQUIRED	PROVIDED		3.4.2.1		
		Ground Floor	2	7				
3.27 LOCATION OF EXITS		OCCUPANCY	REQUIRED	PROVIDED		3.4.2.5		
		Business & Personal Services	40m Max	14.37m				
		Low Hazard Industrial	45m Max	16.79m				
3.28 PLUMBING FIXTURE REQUIREMENTS		RATIO:		MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE				3.7.4.
		FLOOR LEVEL/AREA		OCCUPANT LOAD		OBC SENTENCE		
		First Floor Male		9		3.7.4.7		
		First Floor Female		9		3.7.4.7		
3.29 ENERGY EFFICIENCY		COMPLIANCE PATH:		ASHRAE 90.1-2013 +SB10 Division 3 Chapter 2				
		CLIMATIC ZONE:		ZONE 6				
3.30 BUILDING ENVELOPE REQUIREMENTS		DESCRIPTION		REQUIRED		PROVIDED		SB 10
		ROOF, ENTIRELY ABOVE DECK:		R-35 ci		R-60 & R-48		5.5-6
		WALLS ABOVE GRADE, MASS:		R-19 ci		R-21.5		5.5-6
		WALLS ABOVE GRADE, STEEL FRAMED:		R-13 + R15 ci		R-24 + R21.5 ci		5.5-6
		SLAB-ON-GRADE (UNHEATED)		R-15 for 48in		R-15		
3.31 NOTES								

ONTARIO BUILDING CODE DATA MATRIX 1 ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C

SEISMIC DESIGN REQUIREMENTS FOR NON-STRUCTURAL ELEMENTS (CATEGORIES 6 TO 21 TABLE 4.1.1.18)

OBC REFERENCE

01	IMPORTANCE CATEGORY	Post-Disaster	-	4.1.2.1.(3), & 5.2.2.1.(2)	
02	SITE CLASS	D			
03	5% SPECTRAL RESPONSE ACCELERATION Sa(0.2)	0.167		4.1.8.4.(1) & SB-1, T.1.2.	
04	EARTHQUAKE IMPORTANCE FACTOR (IE)	1.50		T.4.1.8.5.	
05	ACCELERATION BASED COEFFICIENT (Fa)	1.12		T.4.1.8.4.B	
06	SEISMIC HAZARD INDEX	IEFaSa(0.2) =	0.28	0.35 OR GREATER?	NO
				0.12 OR LESS?	NO
	SEISMIC DESIGN REQUIRED FOR CATEGORIES 6 TO 21, TABLE 4.1.1.18.7			REQUIRED	4.1.8.18.(2)
	REASONING FOR REQUIREMENT:			IMPORTANCE CATEGORY	

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ISSUE OR REVISION

NO.	ISSUED FOR	DATE
3	SITE PLAN APPLICATION	2021-04-14
4	30% SUBMISSION	2021-05-20
6	60% SUBMISSION	2021-08-06
8	90% SUBMISSION	2021-10-18
11	BUILDING PERMIT	2022-01-24
14	95% SUBMISSION	2022-12-01
15	SPA FINAL SUBMISSION	2022-12-01
16	IFT	2022-12-16
18	ADDENDUM #2	2023-02-20

YORK REGION PRS #32 RFTC-604-22-10

53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

PROJECT:

CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
197 SPADINA AVENUE, SUITE 500 | TORONTO ONTARIO | M5T 2C8

PROFESSIONAL SEAL

DWG TITLE

DRAWING INDEX & OBC MATRIX

ORIENTATION

DATE 2020-11-30

SCALE DRAWN BY SL / AA / VL

DWG STATUS:

TENDER

PROJECT NO.

1903

DRAWING NO.

A0.0

REVISION

18

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
6	60% SUBMISSION	2021-08-06
7	SITE PLAN RESUBMISSION #2	2021-10-18
8	90% SUBMISSION	2021-10-18
9	SITE PLAN RESUBMISSION #3	2022-05-18
11	BUILDING PERMIT	2022-01-24
12	BUILDING PERMIT RESPONSE	2022-05-09
13	TRCA PERMIT APPLICATION	2022-11-22
14	95% SUBMISSION	2022-12-01
15	SPA FINAL SUBMISSION	2022-12-01
16	IFT	2022-12-16
18	ADDENDUM #2	2023-02-20

YORK REGION PRS #32 RFTC-604-22-10

53 JACOB KEEFER PARKWAY, CITY OF VAUGHAN

PROJECT:

CLIENT:

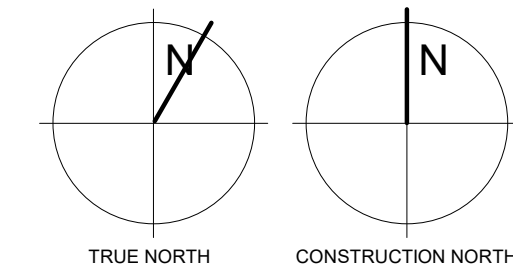
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TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES
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ARCHITECT
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PROFESSIONAL SEAL

SITE PLAN & SITE PLAN STATISTICS

ORIENTATION



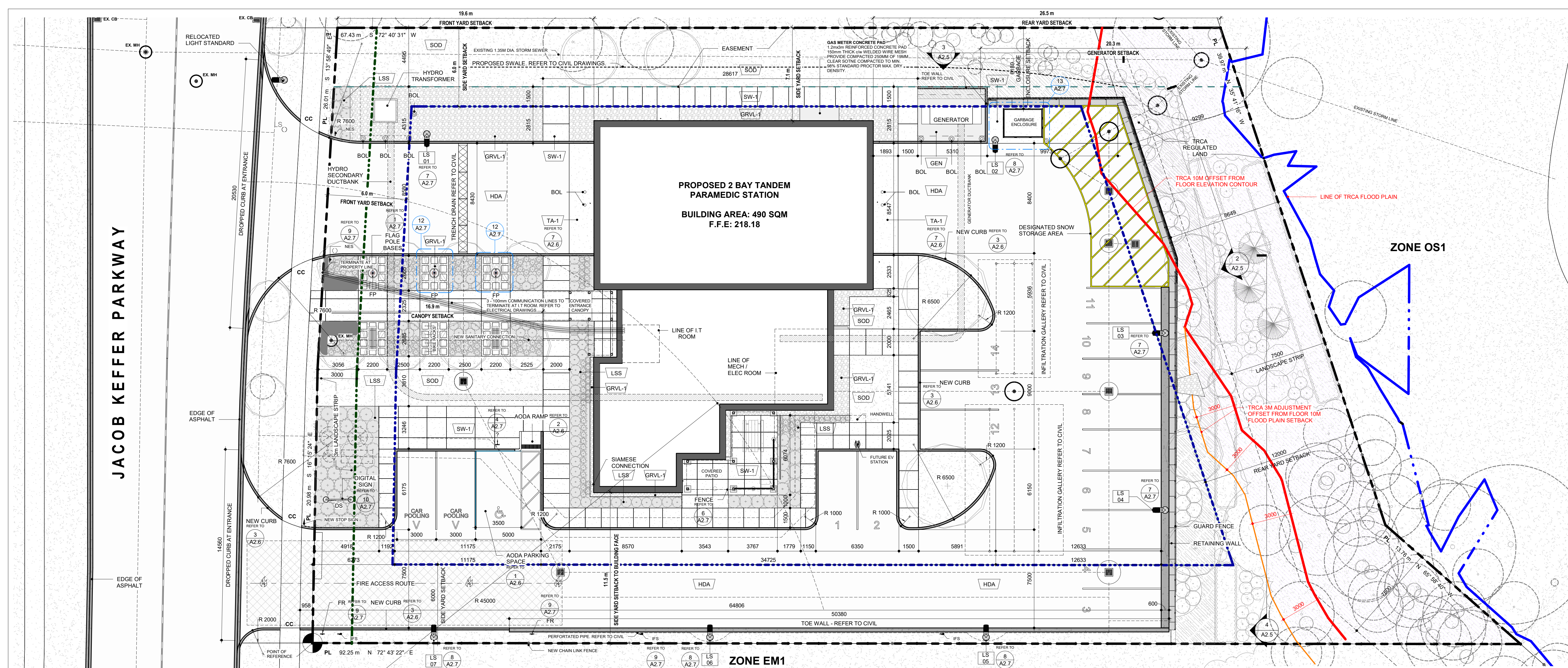
DATE 2020-11-30

SCALE As indicated DRAWN BY SL / AA / VL

DWG STATUS: TENDER

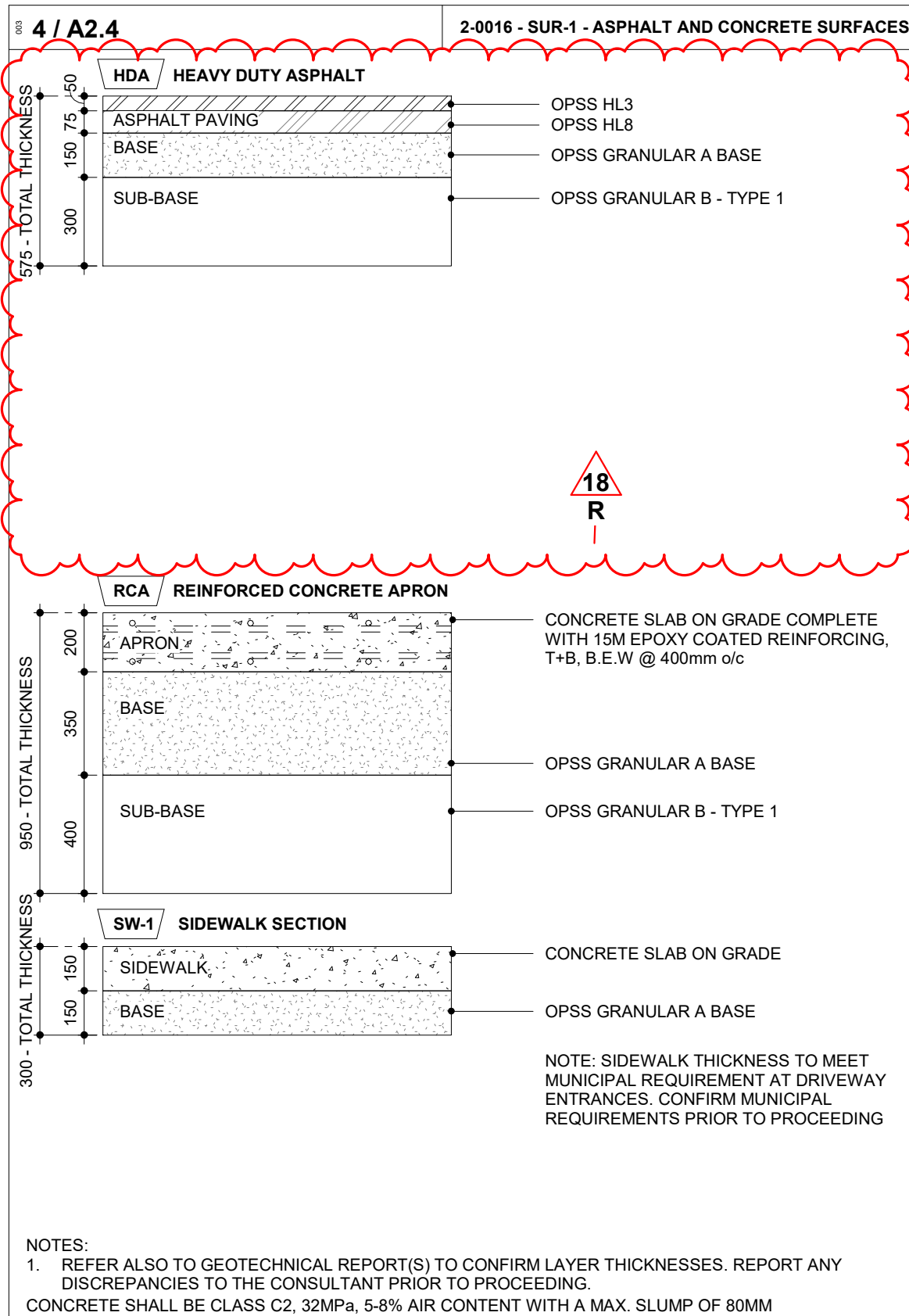
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DRAWING NO. A2.4 REVISION 18

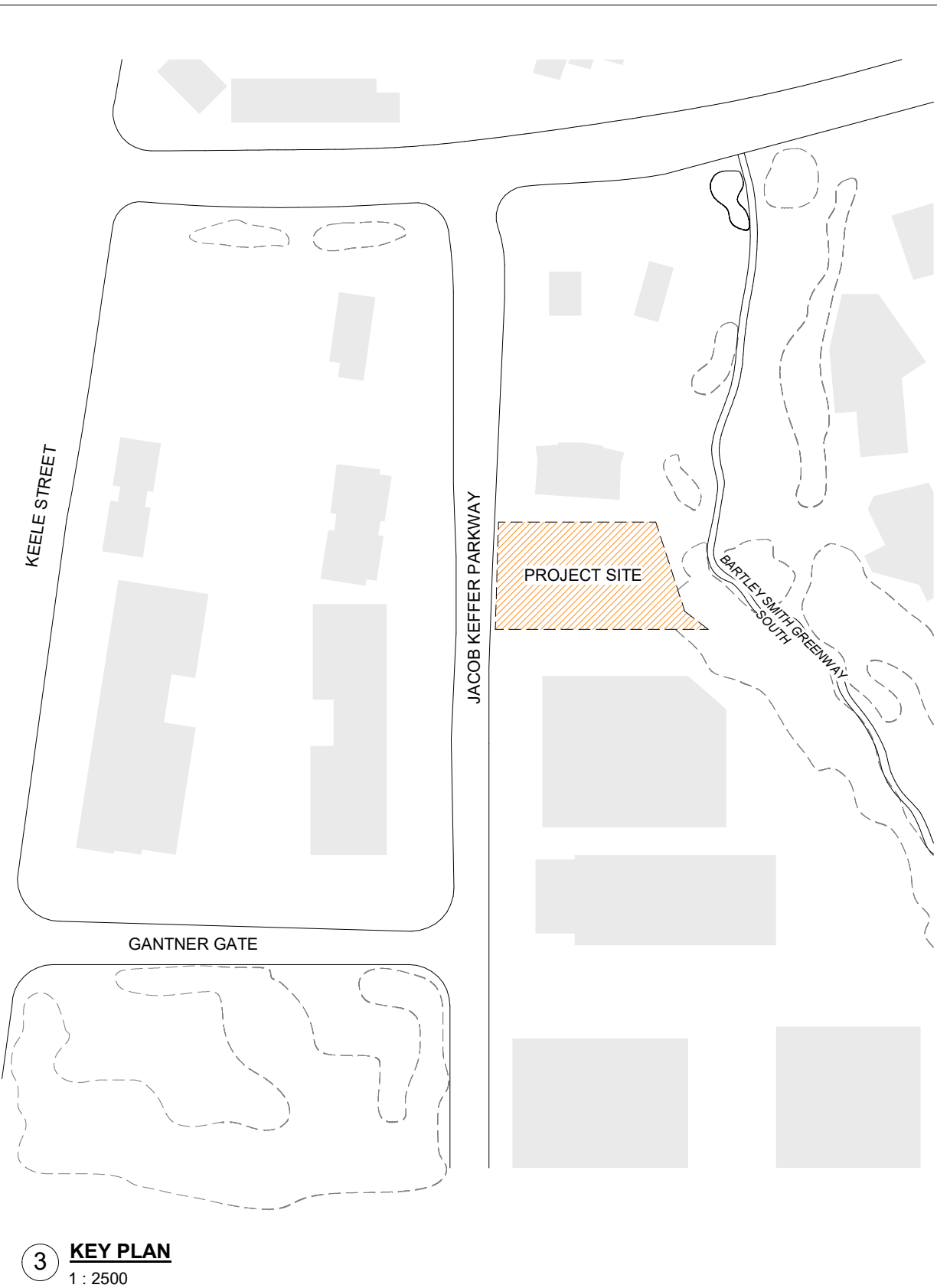


1 SITE PLAN
1 : 150

PROJECT SITE STATISTICS DATA				
ZONING INFORMATION				
ITEM	DESCRIPTION	DESCRIP...		
1	ZONING BY-LAW	BY-LAW 1-88		
2	ZONING CATEGORY	PRESTIGE EMPLOYMENT AREA ZONE (EM1)		
3	PERMITTED USES	PUBLIC USES		
4	LOT AND PLAN NUMBER	LOT 4 - Plan 65M-2795		
LOT REQUIREMENTS		REQUIRED		PROPOSED
5	LOT AREA	3,623.00	m²	3,623.00
6	LOT FRONTAGE MINIMUM	36.00	m	47.00
7	LOT COVERAGE MAXIMUM %	60.00	%	13.52
8	LANDSCAPED AREA MINIMUM	NR	m²	1,572.50
9	GREEN ROOF AREA	NR	m²	N/A
10	FRONT YARD LANDSCAPE MINIMUM	NR	%	NR
11	HARDCAPED AREA (HIGH ALBEDO)	NR	m²	402.50
12	PAVED AREA	NR	m²	1,158.00
PRINCIPAL BUILDING REQUIREMENTS		REQUIRED		PROPOSED
13	BUILDING HEIGHT MAXIMUM	15.00	m	6.00
14	FLOOR SPACE INDEX	0.60	FSI	0.14
15	BUILDING FOOTPRINT	2,173.80	m²	490.00
16	GROSS BUILDING AREA	NR	m²	490.00
17	ESTABLISHED GRADE	NR	m	m
PARKING / LOADING / BICYCLE SPACES		REQUIRED		PROPOSED
18	PARKING SPACES	13		13
19	PARKING SPACES FOR PERSONS WITH DISABILITIES	1		1
20	BICYCLE PARKING	2		4
21	LOADING SPACES	NR		0
BUILDING TO PROPERTY SETBACKS		REQUIRED		PROPOSED
22	FRONT YARD SETBACK	6.00	m	19.40
23	SIDE YARD SETBACK	6.00	m	6.95
24	REAR YARD SETBACK	12.00	m	26.00
25	SIDE YARD SETBACK	6.00	m	11.30
LANDSCAPE BUFFER PROPERTY SETBACKS		REQUIRED		PROPOSED
26	LANDSCAPE SETBACK FRONT YARD	3.00	m	6.00
27	LANDSCAPE SETBACK SIDE YARD	0.00	m	4.50
28	LANDSCAPE SETBACK REAR YARD	7.50	m	8.70
29	LANDSCAPE SETBACK SIDE YARD	0.00	m	1.00



- 2-0016 - SUR-1 - ASPHALT AND CONCRETE SURFACES
- 2 / A2.4
- A700 GENERAL NOTES - SITE PLAN
- THE CONTRACT CONSISTS OF ALL WORK WITH-IN THE 'PROPERTY LINE' AND/OR 'SITE EXTENTS' LINE AS INDICATED PLUS ANY WORK SPECIFICALLY NOTED OUTSIDE OF THAT LINE OR AS REQUIRED TO DELIVER A OPERATIONAL, FUNCTIONING PROJECT.
 - THE TERM 'SITE EXTENTS' REFERS TO THE AREA THAT THE CONTRACTOR IS REQUIRED TO ENCLOSE WITH CONSTRUCTION FENCING FOR THE DURATION OF THE WORK.
 - ALL WORK DONE OUTSIDE OF THESE LIMITS MUST BE EXECUTED IN STRICT ACCORDANCE WITH THE STANDARDS OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE GOOD AT NO ADDITIONAL COST TO THE OWNER OR MUNICIPALITY ANY DAMAGE CAUSED BY THIS CONSTRUCTION TO MATERIALS OR FINISHES BEYOND THE 'PROPERTY LINE' INDICATED.
 - CONTRACTOR IS TO RESTRICT ALL WORK, EQUIPMENT AND MATERIALS STORAGE TO AREA(S) WITHIN THE 'PROPERTY LINE' EXCEPT WHERE NOTED OTHERWISE. PRIMARY SITE ACCESS POINT & CONSTRUCTION PARKING IS TO BE CONFIRMED WITH OWNER. NO PARKING IS PERMITTED IN THE MUNICIPAL RIGHT-OF-WAY.
 - LOCATE EXCAVATED MATERIALS & TOPSOIL PILES SO AS NOT TO IMPEDE PROGRESS OF THE WORK OR AS DIRECTED. 'DOUBLE HANDLING' OF MATERIALS AS A RESULT OF CONTRACTOR PLANNING OR EXECUTION OF THE WORK WILL NOT BE CONSIDERED AS A BASIS FOR CLAIM. AT COMPLETION OF THE PROJECT, ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO CONSULTANT'S SATISFACTION.
 - FOR TRENCHING & BACKFILLING OF ALL SERVICE LINES AND DIVISION OF RESPONSIBILITY REFER TO APPROPRIATE SPECIFICATION SECTIONS AND DRAWINGS. TRENCHING & BACKFILLING NOT IDENTIFIED BY A PARTICULAR SUB-TRADE WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE TRENCHING AND BACKFILLING. GRADE FINISHED WORK TO MATCH SURROUNDING SURFACES.
 - NOTE THAT THE EXACT LOCATIONS OF ALL NEW MECHANICAL & ELECTRICAL ITEMS ARE APPROXIMATE UNLESS DIMENSIONS ARE GIVEN. ADJUST LOCATIONS AS REQUIRED AND AS APPROVED BY CONSULTANT TO SUIT SITE CONDITIONS.
 - NOTE THAT ALL MECHANICAL AND ELECTRICAL UNDERGROUND AND ABOVEGROUND SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS, DEPTHS AND MARKING ALL UNDERGROUND AND ABOVEGROUND SERVICES WITHIN ALL AREAS OF CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO GAS LINES, WATER LINES, ELECTRICAL LINES, TELEPHONE, CABLE TV ETC. VERIFY EXACT LOCATIONS WITH THE APPROPRIATE AUTHORITIES BEFORE EXCAVATING.
 - PRIOR TO COMMENCING WORK TO PLACE VERTICAL ELEMENTS SUCH AS FLAGPOLES AND LIGHT STANDARDS ENSURE ADEQUATE CLEARANCE FROM EXISTING ABOVE GROUND ELEMENTS SUCH AS OVERHEAD WIRES CABLES ETC. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
 - ALL FINISHED PAVING AND GRADING TO BE TO NEW LEVELS SHOWN. ALL DRAINAGE TO BE POSITIVE, LEAVING NO POCKETS IN FINISHED GRADE. FINISHED GRADING TO SLOPE MINIMUM 1:12 AND ASPHALT TO SLOPE MAX 1:10 AWAY FROM BUILDING UNLESS SHOWN OTHERWISE. NEW GRADES TO MEET EXISTING GRADES FALLING AWAY FROM BUILDING AND FEATHERED OUT EVENLY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-BUILT DRAWINGS.
 - CO-ORDINATE ALL WORK NOTED HERE WITH THE SPECIFICATION DOCUMENTS - FOR GENERAL REQUIREMENTS, EXISTING CONDITIONS, EXCAVATION & BACKFILLING, LANDSCAPING, ETC AS REQUIRED FOR COMPLETE SITE RELATED WORK.



3 KEY PLAN
1 : 2500

5 FLOOR ASSEMBLIES - FINISHES		
CT-1	<p>CONSTRUCT AS FIRE SEPARATION WHERE NOTED</p> <ul style="list-style-type: none"> - FLOOR TILE - STONE TILE - BETONTECH - MUD 300 x 600 - 1/4 - RUNNING BOND - 25% OVERLAP - GROUT SHALL BE: MAPEI #107 IRON - BASE AT WALL - 100mm CT-1 BASE AT ALL WALL JUNCTIONS - GROUT JOINT WIDTH: 1.5mm 	BLDG
CT-2	<p>CONSTRUCT AS FIRE SEPARATION WHERE NOTED</p> <ul style="list-style-type: none"> - SHOWER FLOOR TILE - OLYMPIA TILE - QUEBEC - DARK GREY UNGLAZED MOSAIC 50 x 50 - GROUT SHALL BE: MAPEI #107 IRON - GROUT JOINT WIDTH: 1.5mm 	BLDG
F-HC	<p>CONSTRUCT AS FIRE SEPARATION WHERE NOTED</p> <ul style="list-style-type: none"> - COLOURED SURFACE HARDENER - APPLIED TO SLAB ON GRADE DURING SLAB FINISHING IN APPARATUS BAY 	BLDG
F-SLD	<p>CONSTRUCT AS FIRE SEPARATION WHERE NOTED</p> <ul style="list-style-type: none"> - SEALANT APPLIED TO CONCRETE 	BLDG
F-EPP-1	<p>CONSTRUCT AS FIRE SEPARATION WHERE NOTED</p> <ul style="list-style-type: none"> - COROTECH EPOXY - V400-75 BATTLESHIP GREY 	BLDG
F-EPP-2	<p>CONSTRUCT AS FIRE SEPARATION WHERE NOTED</p> <ul style="list-style-type: none"> - COROTECH EPOXY - V400-10 SAFETY YELLOW 	BLDG

6 FLOOR ASSEMBLIES - PAINT		
PNT-1	<p>PAINT FINISH</p> <p>MANUFACTURER - BENJAMIN MOORE</p> <p>NUMBER - OC-65</p> <p>COLOR - CHANTILLY LACE</p> <p>TYPE - INTERIOR ACRYLIC PAINT</p> <p>FINISH - EGGSHELL FINISH</p> <p>LOCATION - WALLS, EXPOSED STEEL, UNLESS OTHERWISE NOTED</p>	
PNT-2	<p>PAINT FINISH</p> <p>MANUFACTURER - BENJAMIN MOORE</p> <p>NUMBER - OC-117</p> <p>COLOR - SIMPLY WHITE</p> <p>TYPE - INTERIOR ACRYLIC PAINT</p> <p>FINISH - EGGSHELL FINISH</p> <p>LOCATION - ALL EXPOSED AND GYPSUM BOARD CEILINGS UNLESS OTHERWISE NOTED</p>	
PNT-3	<p>PAINT FINISH</p> <p>MANUFACTURER - DULUX</p> <p>NUMBER - 30y 10/038</p> <p>COLOR - FOREST BLACK</p> <p>TYPE - INTERIOR ACRYLIC PAINT</p> <p>FINISH - EGGSHELL FINISH</p> <p>LOCATION - HOLLOW METAL DOORS & FRAMES</p>	
PNT-4	<p>PAINT FINISH</p> <p>MANUFACTURER - BENJAMIN MOORE</p> <p>NUMBER - 2125-20</p> <p>COLOR - DEEP SPACE</p> <p>TYPE - EXTERIOR / INTERIOR ACRYLIC PAINT</p> <p>FINISH - EGGSHELL FINISH</p> <p>LOCATION - ALL EXPOSED STEEL IN VEHICLE BAY CEILING (I.E JOISTS AND DECK, CONDUITS, PIPES, ETC. REFER TO SPECIFICATIONS FOR COLOR FOR GAS AND SPRINKLER PIPES), SECTIONAL & FOUR FOLD DOOR JAMBS.</p>	
PNT-7	<p>PAINT FINISH</p> <p>MANUFACTURER - BENJAMIN MOORE</p> <p>NUMBER - 7604</p> <p>COLOR - SMOKY BLUE</p> <p>TYPE - INTERIOR ACRYLIC PAINT</p> <p>FINISH - EGGSHELL FINISH</p> <p>LOCATION - ACCENT WALLS</p>	
4 ASSEMBLIES - WALL TILE		
WT-1	<p>CONFIRM EXTERIOR FACE OF WALL BELOW TO DETERMINE COPING SUPPORT FRAMING DIMENSIONS</p> <ul style="list-style-type: none"> - WALL TILE - OLYMPIA TILE - WARM WHITE MATTE 100 x 400 - STACK BOND - GROUT SHALL BE: MAPEI #38 AVALANCHE 	BLDG
WT-2	<p>CONFIRM EXTERIOR FACE OF WALL BELOW TO DETERMINE COPING SUPPORT FRAMING DIMENSIONS</p> <ul style="list-style-type: none"> - WALL TILE - OLYMPIA TILE - BLACK MATTE 100 x 400 - STACK BOND - GROUT SHALL BE: MAPEI #38 AVALANCHE 	BLDG
WT-3	<p>CONFIRM EXTERIOR FACE OF WALL BELOW TO DETERMINE COPING SUPPORT FRAMING DIMENSIONS</p> <ul style="list-style-type: none"> - WALL TILE - OLYMPIA TILE - QUEBEC - DARK GREY UNGLAZED MOSAIC 50 x 50 - GROUT SHALL BE: MAPEI #107 IRON - WHITE SOLID SURFACE TRIM AT SHOWER OPENINGS 	BLDG
WT-4	<p>CONFIRM EXTERIOR FACE OF WALL BELOW TO DETERMINE COPING SUPPORT FRAMING DIMENSIONS</p> <ul style="list-style-type: none"> - WALL TILE - OLYMPIA TILE - DARK GREY MATTE - HERRINGBONE 100 X 400 - GROUT SHALL BE: MAPEI #38 AVALANCHE 	BLDG

3 / A9.1

WAYFINDING INTERIOR SIGNAGE

TYPE	DANSIGN CURVE
FONT	FUTURA MEDIUM & FUTURA HEAVY

COLOR

- INTERIOR SIGNS SHALL BE BLUE BACKGROUND WITH WHITE TEXT AND GRAPHICS.
- SURFACE TO HAVE MATTE NON-GLARE FINISH

BRAILLE AND TACTILE LETTERS

- BRAILLE SHALL BE OF "RASTER" METHOD E.G. HOLES DRILLED AND BALL BEARINGS INSERTED SUITABLY ROUNDED FOR EASY READING
- BRAILLE DOTS MUST HAVE A DOMED OR ROUNDED SHAPE
- BRAILING PROCESS USED AND APPLIED ON SIGNAGE SHALL NOT BE SUSCEPTIBLE TO VANDALISM
- BRAILLE SHALL BE INTEGRAL TO SIGN SURFACE/DESIGN
- TACTILE SIGNS SHALL HAVE LETTERING AND GRAPHICS THAT ARE RAISED 0.8MM TO 1.5MM ABOVE THE SURFACE OF THE SIGN
- BRAILLE IS REQUIRED TO BE LOWERCASE, EXCEPT FOR PROPER NOUNS, NAMES AND THE FIRST WORD OF SENTENCES OR INDIVIDUAL LETTERS OF THE ALPHABET
- THE BRAILLE TEXT/CHARACTERS SHALL ALWAYS BE PLACED IN THE SAME RELATIVE POSITION, MOUNTED NEAR THE BOTTOM EDGE OF SIGNAGE, BELOW OTHER TEXT, SYMBOLS OR TACTILE CHARACTERS. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW ENTIRE TEXT
- ENSURE BRAILLE TEXT IS SEPARATED A MINIMUM OF 9.5MM FROM ANY OTHER TACTILE CHARACTERS
- WHERE TACTILE CHARACTERS ARE USED, ENSURE EDGES ARE BEVELED AND SMOOTH

NOTE: IT IS THE RESPONSIBILITY OF THE SIGN SUPPLIER TO VERIFY THAT A BRAILLE PROOFREADER HAS APPROVED FINAL ARTWORK. BRAILLE DOTS SHOWN IN THIS GUIDELINE ARE TO SHOW PLACEMENT ONLY

WALL CORNER OR OTHER OBSTRUCTION

150mm FROM DOOR FRAME / OPENING

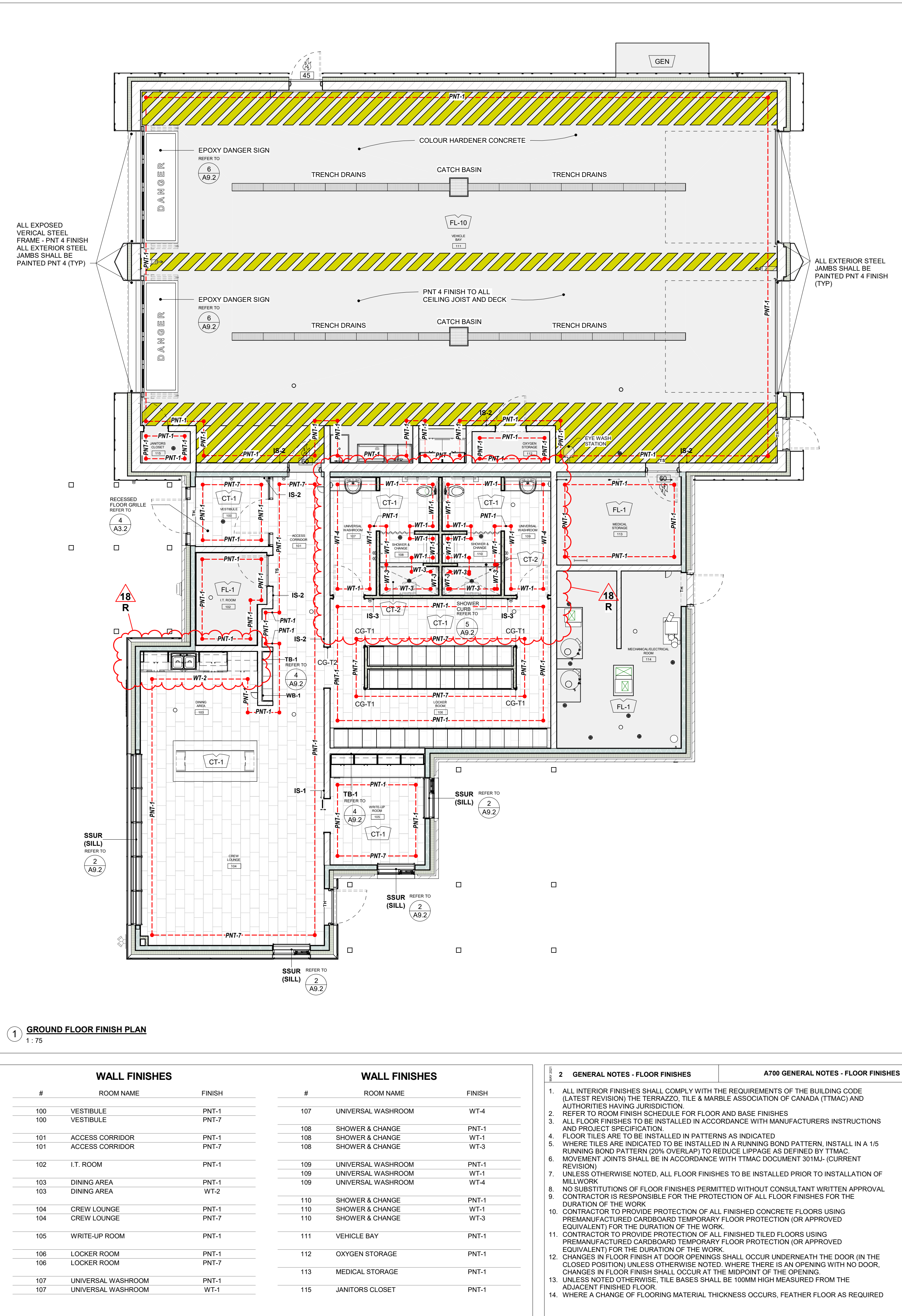
150mm FROM CORNERS OR OTHER OBSTRUCTION

PREFERRED SIGN LOCATION
LATCH SIDE OF DOOR
IF NOTED CLEARANCES ARE NOT
ACHIEVABLE NOTIFY CONSULTANT FOR
ALTERNATE LOCATION PRIOR TO
INSTALLATION

1500 A.F.F.

ELEVATION DETAIL

10-0050 - IS-INTERIOR SIGNS	
OFFICE/ROOM SIGNS (CHANGEABLE MESSAGE)	
TYPE	
DANSIGN PAPERFLEX CURVE SIGN WITH A MAGNETIC LOCKING SYSTEM AND TAMPER PROOF PAPER INSERT SYSTEM	
MATERIAL	
LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS	
MESSAGE	
VINYL ROOM NUMBER ON HEADER PANEL AND PAPER INSERT WITH ROOM NAME OR OCCUPANT'S NAME	
INSTALLATION	
MOUNTED AT 1500MM TO CENTRELINE ABOVE THE FINISHED FLOOR AND 150MM AWAY FROM THE DOOR FRAME - LATCH SIDE (SEE ELEVATION DETAIL)	
ROOM SIGNS (PERMANENT MESSAGE)	
MATERIAL	
LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS	
MESSAGE	
VINYL ROOM NUMBER ON HEADER PANEL AND VINYL ROOM NAME ON BODY PANEL	
INSTALLATION	
MOUNTED AT 1500MM TO CENTRELINE ABOVE THE FINISHED FLOOR AND 150MM AWAY FROM THE DOOR FRAME - LATCH SIDE (SEE ELEVATION DETAIL)	
WASHROOM SIGNS	
MATERIAL	
LACQUERED ABS WITH EXTRUDED ALUMINUM BRACKETS	
MESSAGE	
TACTILE TEXT AND PICTOGRAM AND BRAILLE	
INSTALLATION	
MOUNTED AT 1500MM TO CENTRELINE ABOVE THE FINISHED FLOOR AND 150MM AWAY FROM THE DOOR FRAME - LATCH SIDE (SEE ELEVATION DETAIL)	



THE CONTENTS OF THIS DRAWING AND SPECIFICATIONS
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THOMAS BROWN ARCHITECT INC.
AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
4	30% SUBMISSION	2021-05-20
6	60% SUBMISSION	2021-08-06
8	90% SUBMISSION	2021-10-18
11	BUILDING PERMIT	2022-01-24
14	95% SUBMISSION	2022-12-01
16	IFT	2022-12-16
18	ADDENDUM #2	2023-02-20

YORK REGION PRS #32

RFTC-604-22-10

53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

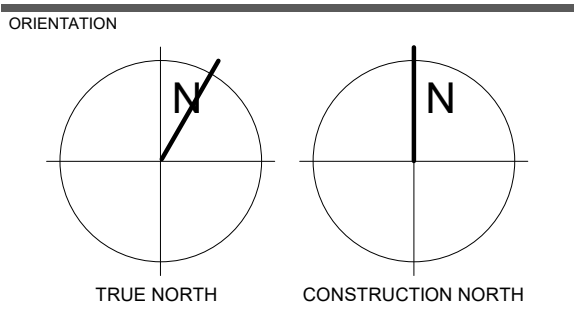
CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

ARCHITECT
THOMASBROWNARCHITECTS
107 SPADINA AVENUE, SUITE 500 1 TORONTO ONTARIO 1 M5T 2C5

PROFESSIONAL SEAL

FLOOR FINISH AND FURNITURE PLAN



DATE 2020-11-30

SCALE As indicated DRAWN BY SL / AA / VL

DWG STATUS: TENDER

PROJECT NO. 1903

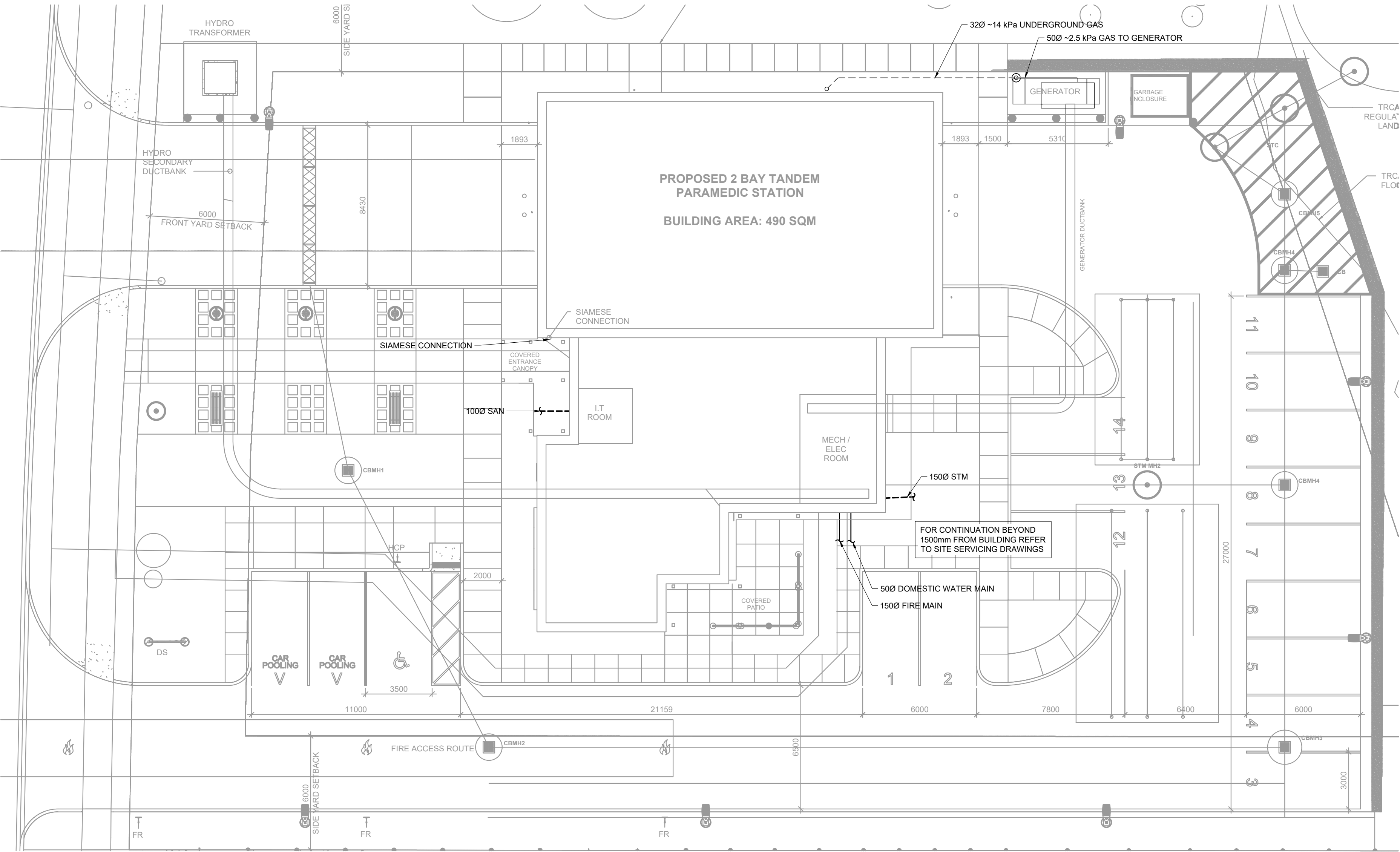
DRAWING NO. A9.1 REVISION 18

YORK REGION PRS #32

53 JACOB KEFFER PARKWAY, VAUGHAN, ONTARIO

MECHANICAL DRAWINGS

MECHANICAL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION VALVE		2-WAY ACTUATED VALVE		ROUND DUCT UP
	3-WAY MIXING / DIVERTING VALVE		3-WAY ACTUATED VALVE		ROUND DUCT DOWN
	PRESSURE REDUCING VALVE		BALANCING VALVE		AIR FLOW DIRECTION
	REDUCER / INCREASER		CHECK VALVE		THERMOSTAT
	BACKFLOW PREVENTER		PIPE DOWN		ERV / HRV CONTROLLER
	PUMP		PIPE UP		SUPPLY DUCT UP
	EXPANSION TANK		PIPE CONTINUATION		SUPPLY DUCT DOWN
	PURGE VALVE		PIPE CONNECTION		RETURN DUCT UP
	TEMP. & PRESSURE RELIEF VALVE		FLANGED CONNECTION W/ BLIND FLANGE		RETURN DUCT DOWN
	DOMESTIC COLD WATER		FLANGED CONNECTION		EXHAUST DUCT UP
	DOMESTIC HOT WATER		SCREWED OR WELDED PIPE CAP		EXHAUST DUCT DOWN
	DHW RECIRCULATION LINE		DRAIN (SCHEMATIC / ELEVATION)		FLEX DUCT
	NON-POTABLE PIPING		FIXTURE DRAIN		RECTANGULAR DUCT BREAK
	HOSE BIBB		AIR SEPARATOR		BALANCING DAMPER
	NON-FREEZE HOSE BIBB NP = NON-POTABLE		FLOW DIRECTION		MOTORIZED DAMPER
	CLEANOUT IN CEILING (END OF LINE)		AIR VENT		FIRE DAMPER
	CLEANOUT IN FLOOR		STRAINER		BACK DRAFT DAMPER
	FLOOR DRAIN (FD)		THERMOSTATIC RADIATOR VALVE		"A" = DIFFUSER TYPE "2000" = DIFFUSER SIZE (mm) "130" = FLOW RATE (L/S)
	FUNNEL FLOOR DRAIN (FFD)		TIE POINT		INTERNALLY LINED ACOUSTIC DUCT
	FIRE DEPARTMENT CONNECTION PIPING		UNION		ACOUSTICALLY LINED DUCT (SINGLE LINE)
	WATER METER		PIPE CAP		SILENCER
	GAS METER		PIPE SLOPE		FLOW SWITCH
	REFRIGERANT PIPING		EYEWASH		PRESSURE GAUGE / INDICATOR
	GLYCOL SUPPLY		P-TRAP		TEMPERATURE GAUGE / INDICATOR
	GLYCOL RETURN		ROOF DRAIN		TEMPERATURE SENSOR (TRANSMITTER)
	NATURAL GAS PIPING		CONDENSATE DRAIN		PRESSURE SENSOR (TRANSMITTER)
	HIGH PRESSURE GAS PIPING		GAUGE COCK		RELATIVE HUMIDITY SENSOR (TRANSMITTER)
	PROPANE GAS PIPING		FIRE EXTINGUISHING CABINET		FLOW INDICATOR
	SPRINKLER PIPING		THERMOSTATIC MIXING VALVE		FLOW SENSOR
	STORM DRAIN		SANITARY DRAIN		DIFFERENTIAL PRESSURE SENSOR
	STORM DRAIN BELOW GRADE		SANITARY DRAIN BELOW GRADE		
			DISTANCE FROM FLOOR TO BOTTOM OF ITEM		



SITE PLAN SCALE 1:150

DRAWING LIST	
M1.0	SITE PLAN AND LEGEND
M2.0	SCHEDULES
M2.1	SCHEDULES
M3.0	PLUMBING & DRAINAGE
M4.0	ROOF AND HVAC
M5.0	PART PLAN - MECHANICAL / ELECTRICAL ROOM
M6.0	DETAILS
M6.1	DETAILS
M7.0	GAS AND PLUMBING SCHEMATICS
M7.1	REFRIGERANT PIPING SCHEMATIC
M8.0	FIRE PROTECTION
M8.1	FIRE PROTECTION DETAILS

ISSUE OR REVISION		
NO.	ISSUED FOR	DATE
1	ISSUED FOR PERMIT	26 JAN 2022
2	ISSUED FOR TENDER	16 FEB 2023

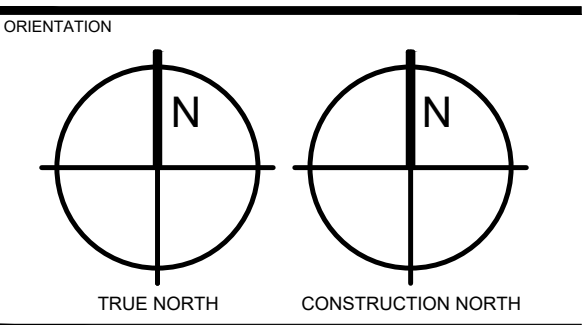
PROJECT: YORK REGION PRS #32
CLIENT: RFTC-604-22-10
53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

York Region
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

CONSULTANT: **zon engineering inc.**
465 PINEBUSH ROAD, UNIT 5, CAMBRIDGE, ON
888-338-6363
WWW.ZONENGINEERING.COM



DWG TITLE: SITE PLAN AND LEGEND



DATE	2020-06-10
SCALE	As indicated
DWG STATUS	DESIGN
PROJECT No.	TBA2002
DRAWING No.	M1.0
REVISION	

MECHANICAL DESIGN BASIS - STAFF AREA			
WINTER CONDITIONS	INDOOR	70°F (21°C)	
	OUTDOOR	-8°F (-22°C)	
SUMMER CONDITIONS	INDOOR	75°F (24°C)	
	OUTDOOR	87°F DB / 75°F WB (31/24°C)	
ENVELOPE (MIN EFFECTIVE VALUES)	ABOVE GRADE WALL	R-34 ft²·°F·h/BTU	
	CONCRETE SLAB FLOOR	R-16 ft²·°F·h/BTU	
	FOUNDATION WALL	R-21 ft²·°F·h/BTU	
	DEMISING WALL	R-22 ft²·°F·h/BTU	
WINDOWS (MAX VALUES)	U-VALUE	0.17 BTU/(ft²·°F·h)	
	SHGC	0.32	
HEATING (MBH)	ENVELOPE	13.6	
	INFILTRATION	12.4	
	HP WATER HEATER	4.2	
	SAFETY FACTOR	10%	
COOLING (MBH)	TOTAL	33.2	
	SENSIBLE	21.5	
	LATENT	4.4	
REQUIRED EXHAUST RATE, ASHRAE 62 (L/s)			61
REQUIRED VENTILATION RATE, ASHRAE 62 (L/s)			78

MECHANICAL DESIGN BASIS - VEHICLE BAY			
WINTER CONDITIONS	INDOOR	64°F (18°C)	
	OUTDOOR	-8°F (-22°C)	
SUMMER CONDITIONS	INDOOR	95°F (35°C)	
	OUTDOOR	87°F DB / 75°F WB (31/24°C)	
ENVELOPE (MIN EFFECTIVE VALUES)	ABOVE GRADE WALL	R-22 ft²·°F·h/BTU	
	CONCRETE SLAB FLOOR	R-16 ft²·°F·h/BTU	
	ROOF	R-40 ft²·°F·h/BTU	
REQUIRED EXHAUST CAPACITY, OBC (L/s)			975

HEAT PUMP AND AIR CONDITIONER SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
FC-1.1	VRF FAN COIL UNIT, VERTICAL FLOOR-MOUNTED INDOOR UNIT SERVES WRITE-UP ROOM, MEDICAL STORAGE, WASHROOMS	MITSUBISHI CITY MULTI PVFY-P12NAMU-E1	208/1/60 3 A MCA 15 A MAX FUSE SIZE	1-TON NOMINAL FLOOR-MOUNTED FAN COIL UNIT WITH 3.5 kW (12,000 BTU/H) COOLING CAPACITY AT 27/19°C (80/67°F) DB/WB INDOOR AND 35°C (95°F) OUTDOOR. 4.0 kW (13,500 BTU/H) HEATING CAPACITY AT 21°C (70°F) INDOOR AND 8/6°C (47/43°F) DB/WB OUTDOOR. TURNDOWN CAPACITY TO 25% OF NOMINAL CAPACITY. AIRFLOW RATE 132-160-189 L/s (280-340-400 CFM) LO-MED-HI AND CORRESPONDING SOUND PRESSURE LEVEL 27-31-35 dB(A). E.S.P 0.3-0.5-0.8 IN.WG. 1/2" GAS AND 1/4" LIQUID LINES. PROVIDE BACNET CARD INTESISBOX ME-AC-BAC-1 FOR EACH INDOOR UNIT.
			ELECTRIC HEAT KIT 3.8 kW 208/1/60 18 1 A 22.6 MCA 25 MOP	PROVIDE EH05-MPA-S(B) 3.8 kW ELECTRIC HEAT KIT AND CONNECT TO CN24 ELECTRIC HEAT CONNECTION ON FAN COIL UNIT CONTROL BOARD.
FC-1.2	VRF FAN COIL UNIT, VERTICAL FLOOR-MOUNTED INDOOR UNIT SERVES CREW LOUNGE	MITSUBISHI CITY MULTI PVFY-P12NAMU-E1	208/1/60 3 A MCA 15 A MAX FUSE SIZE	1-TON NOMINAL FLOOR-MOUNTED FAN COIL UNIT WITH 3.5 kW (12,000 BTU/H) COOLING CAPACITY AT 27/19°C (80/67°F) DB/WB INDOOR AND 35°C (95°F) OUTDOOR. 4.0 kW (13,500 BTU/H) HEATING CAPACITY AT 21°C (70°F) INDOOR AND 8/6°C (47/43°F) DB/WB OUTDOOR. TURNDOWN CAPACITY TO 25% OF NOMINAL CAPACITY. AIRFLOW RATE 132-160-189 L/s (280-340-400 CFM) LO-MED-HI AND CORRESPONDING SOUND PRESSURE LEVEL 27-31-35 dB(A). E.S.P 0.3-0.5-0.8 IN.WG. 1/2" GAS AND 1/4" LIQUID LINES. PROVIDE BACNET CARD INTESISBOX ME-AC-BAC-1 FOR EACH INDOOR UNIT.
			208/1/60 0.24 A MIN. CIRCUIT AMP 30 W DC BLOWER	PROVIDE EH05-MPA-S(B) 3.8 kW ELECTRIC HEAT KIT AND CONNECT TO CN24 ELECTRIC HEAT CONNECTION ON FAN COIL UNIT CONTROL BOARD.
FC-2	VRF FAN COIL UNIT, WALL-MOUNTED SERVES MECHANICAL ROOM	MITSUBISHI CITY MULTI PKFY-P12NLMU-E-TH	208/1/60 0.24 A MIN. CIRCUIT AMP 30 W DC BLOWER	1-TON NOMINAL WALL-MOUNTED FAN COIL UNIT WITH 3.5 kW (12,000 BTU/H) COOLING CAPACITY AT 27/19°C (80/67°F) DB/WB INDOOR AND 35°C (95°F) DB. 4.0 kW (13,500 BTU/H) HEATING CAPACITY AT 21°C (70°F) INDOOR AND 8.3/6.1°C (47/43°F) DB/WB OUTDOOR. TURNDOWN CAPACITY TO 25% OF NOMINAL CAPACITY. AIRFLOW RATE 72-90-115-140 L/s (152-191-244-297 CFM) LO-MID2-MID1-HI AND CORRESPONDING SOUND PRESSURE LEVEL 24-31-37-41 dB(A). 1/2" GAS AND 1/4" LIQUID LINES. PROVIDE BACNET CARD INTESISBOX ME-AC-BAC-1 FOR EACH INDOOR UNIT.
			208/1/60 19 A RLA 44 A MCA 0.33 36 W MCA	NOMINAL 3-TON COLD CLIMATE HEAT PUMP WITH VARIABLE SPEED INVERTER COMPRESSOR (MODULATING VRF) FOR CONNECTION TO MULTIPLE INDOOR FAN COILS. R-410A REFRIGERANT. COOLING CAPACITY AT 27/19°C (81/66°F) DB/WB, 35°C (95°F) OUTDOOR. 1.8 TO 10.5 kW (6,000 TO 36,000 BTU/H). HEATING CAPACITY AT 20°C (68°F) INDOOR, 7/6°C (45/43°F) DB/WB. 1.8 TO 12.3 kW (6,000-42,000 BTU/H). AT -25°C (-13°F), HEATING CAPACITY AT 80% (9.8 kW, 33,600 BTU/H). 53 / 49 dB(A) SOUND PRESSURE LEVEL IN HEATING / COOLING MODE. PROVIDE MESCA SNOW GUARD / WINDSCREENS. 124 kg (273 LBS) WEIGHT, HxWxD: 1338 x 1050 x 330+25 mm (53"x42"x13+1"). R410A REFRIGERANT. DUCTED AHRI RATINGS: 12.6 EER, 18.3 SEER, 11.7 HSPF. 49/53 dBA CLG/HTG. PROVIDE ADJUSTIBLE WIDTH OR ECO-FOOT ECOFRAME EQUIVALENT MOUNTING FRAME. INSTALL CONDENSING UNIT MIN. 24" ABOVE GRADE.
CU-1	COLD CLIMATE AIR-TO-AIR HEAT PUMP, OUTDOOR UNIT	MITSUBISHI CITY MULTI PUMY-HP36NKMU1	208/1/60 19 A RLA 44 A MCA 0.33 36 W MCA	5,800-12,000 BTU/H CAPACITY RANGE AT -40°C TO 46°C OUTDOOR TEMPERATURE. 320-370-425 CFM DRY LOW-MID-HI AIRFLOW RATE, 290-335-380 WET LOW-MID-HI AIRFLOW RATE, 0.81 SHF. 12.0 EER, 20.8 SEER. 295 H x 898 W x 249 D, UNIT WEIGHT: 29 LBS (13 KG), 5/8" DIA. CONDENSATE DRAIN CONNECTION, 36-43 dB(A) SOUND PRESSURE LEVEL, R410A REFRIGERANT, 1/4" DIA LIQ. 1/2" DIA GAS LINES, GALVANIZED FINISH. PROVIDE ONE CENTRALLY LOCATED PAR-33MAA-J HARDWIRED CONTROLLER PER UNIT AND COORDINATE INSTALLATION LOCATION WITH ARCHITECT/OWNER.
			208/1/60 MCA: 1A FLA: 0.33 30 W FAN	
AC-2	SERVER ROOM COOLING - INDOOR UNIT	MITSUBISHI PKA-A12HA7	208/1/60 MCA: 1A FLA: 0.33 30 W FAN	INVERTER DRIVEN TWIN ROTARY COMPRESSOR, ECM OUTDOOR FAN, UNIT WEIGHT: 92 LBS (41 KG), 1/4" DIA LIQ, 1/2" DIA GAS LINES, DIMENSIONS: 630 H x 809 + 62 W x 300 D, R-410A REFRIGERANT, 12.0 EER, 20.8 SEER. PROVIDE MESCA WINDSCREENS FOR LOW AMBIENT OPERATION. PROVIDE 500 LBS MAX. WEIGHT CAPACITY. ADJUSTIBLE WIDTH OR ECO-FOOT MOUNTING FRAME. INSTALL CONDENSING UNIT MIN. 24" ABOVE GRADE.
			208/1/60 MCA: 11A MOCP: 28A	

VENTILATION EQUIPMENT				
TAG	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
ERV	ENERGY RECOVERY VENTILATOR	VANEE G3000E ECM	120V/60 POWER OUTLET REQUIRED 2.2 A 135 W	ENERGY RECOVERY VENTILATOR WITH ECM SUPPLY AND EXHAUST MOTORS. 2 - MERV 8 WASHABLE FILTERS, HVI RATED, 240 CFM @ 0.4" E.S.P., RATED SRE 60% @ 25°C AND 110 CFM. DIMENSIONS: 796 mm H x 675 W x 475 D (33.18" H x 32.18" W x 20.18" D). WEIGHT: 96 LBS. PROVIDE VANEE GOLD TOUCH WALL-MOUNTED DIGITAL CONTROLLER (C1) AND PUSH-BUTTON 20-40-60 MINUTE BOOST MODE CONTROLLERS (C2) IN EACH BATHROOM. REFER TO PLANS FOR LOCATIONS.
FAH	ELECTRIC IN-LINE VENTILATION POST-HEATER	RENEWAIRE RH SERIES RH-W	208/1/60 19.2 A	13.5" D X 10.0" W X 11.5" L, 4 KW ELECTRIC RESISTANCE IN-LINE POST-HEATER C/W 8" DIA. COLLAR ON INLET AND OUTLETS. MINIMUM AIRFLOW 120 CFM AT 4 KW. OPEN NICKEL-CHROME ELEMENTS. AUTOMATIC LIMIT SWITCH FOR PRIMARY OVER-TEMPERATURE PROTECTION. MANUAL RESET LIMIT SWITCH FOR SECONDARY OVER-TEMPERATURE PROTECTION. AIRFLOW SENSOR, OUTPUT TEMPERATURE CONTROLLABLE THROUGH BAS. PROVIDE DUCT DISCHARGE TEMPERATURE SENSOR TO CONNECT TO BAS. INSTALL HEATER WITH MINIMUM 16" STRAIGHT RUNS OF SHEET METAL DUCT ON INLET AND OUTLET.

RADIANT TUBE HEATERS				
TAG	GAS INPUT (MBH)	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
RT-1.1, 1.2 QTY: 2	120	BRANT RADIANT MP SERIES MP-30-115N	120V/60 4.8 A STARTING 1.1 A RUNNING	MODULATING GAS HEATER WITH CAPACITY FROM 75 TO 115 MBH, C/W REFLECTORS, BAFFLES AS REQUIRED. SIDEWALL COMBUSTION AIR INTAKE, ROOFTOP VENT PACKAGE. 6-14" INLET NG PRESSURE. EACH HEATER SHALL BE CONTROLLED BY MANUFACTURER'S PREMIUM USER INTERFACE MODULE CONNECTED TO BAS. 14 FT MINIMUM MOUNTING HEIGHT.

FAN SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER AND MODEL	AIR FLOW L/S (CFM)	ESP PA (INWC)	ELECTRICAL
EF-1.1, EF-1.2	SERVES VEHICLE BAY CONTROLLED ON HIGH READING FROM GAS DETECTION SYSTEM	COOK XWD-EC 16XW28D17EC	767 (1626)	37 (0.15)	208/1/60 1/2 HP MOTOR 113 W
EF-2	CONSTANT DEPRESSURIZATION OF VEHICLE BAY, ECM	PANASONIC WHISPERCEILING DC FV-0511VQ1	24-36-52 (50-80-110) LO-MED-HI	63 (0.25)	120/1/60 10.8 W MED SPD, 0.27 MAX A
EF-3	TRANSFER AIR COOLING FOR SERVER ROOM	FANTECH FKD 10 XL MIXED FLOW FAN	425 (900)	249 (1.0)	115/1/60 485 W 4.84 A
CF-1	CEILING/ DESTRATIFICATION FAN SERVES VEHICLE BAY	BIG ASS BASIC 6	-	-	208/3/60 15 A 2.0 HP MOTOR
NOTES: 1. ALL EXHAUST FANS SHALL INCLUDE VIBRATION ISOLATION AND STARTERS.					

DIFFUSER & GRILLE SCHEDULE			
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
A	DOUBLE DEFLECTION LOUVERED GRILLE	EH PRICE 620	ALUMINUM DOUBLE DEFLECTION LOUVERED GRILLE, 20 mm (3/4") BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION C/W ALUMINUM OPPOSED BLADE DAMPER WHERE NO BALANCING DAMPER IS SHOWN ON DRAWINGS, WHITE POWDER COAT FINISH.
B	300x300 SQUARE CONE DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER	EH PRICE SCDA	300 x 300 SQUARE STEEL 3-CONE DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER. WHITE POWDER COAT FINISH.
C	EGG CRATE RETURN GRILLE	EH PRICE 80 VCS3AL	HEAVY-GAUGE ALUMINUM 0" CORE, 13 mm x 13 mm x 13 mm DEPTH SURFACE MOUNT ALUMINUM FRAME, WHITE POWDER COAT FINISH, PROVIDE FRAME FOR DRYWALL CEILINGS AND T-BAR CEILINGS WHERE LAYING INTO GRID IS NOT POSSIBLE DUE TO SMALL SIZE, AND WHERE TERMINATION IS CONNECTED TO DUCT. PROVIDE OPPOSED BLADE DAMPER WHERE CONNECTED TO DUCT AND IN DRYWALL CEILINGS.
D	LINEAR SLOT DIFFUSER, CEILING	PRICE CF-1-1 DIFFUSER CFP-1-2 INSULATED PLENUM	LINEAR CUSTOM CLOW DIFFUSER, 2" ADJUSTA SLOT WIDTH X 1524MM. CONCEALED FRAME TYPE 22, TYPE XX MITERED ENDCAPS, PROVIDE PRICE ENGINEERED INSULATED PLENUMS FOR ALL DIFFUSERS, SERIES CFP WITH VCR8EC ROUND NECK CABLE-OPERATED DAMPER.
E	EGG CRATE RETURN GRILLE, ROUND	EH PRICE RECG	13 mm x 13 mm CORE ROUND EGG CRATE GRILLE.
F	ROUND CONE DIFFUSER	EH PRICE RCDE	2-POSITION ADJUSTABLE ROUND CONE STEEL DIFFUSER. STANDARD FINISH.
G	ROUND AIR NOZZLE DIFFUSER	PRICE ANR	CONCENTRIC RING NOZZLE DIFFUSER, ALUMINUM CONSTRUCTION, ADJUSTABLE ANGLE, C/W CONCEALED FASTENER.
H	DOOR TRANSFER GRILLE	EH PRICE ATGH	HEAVY-DUTY SIGHT-PROOF ALUMINUM DOOR GRILLE.
L2	DRAINABLE LOUVER	PRICE DE439	4" WIDE ALUMINUM DRAINABLE BLADES C/W BIRDSCREEN. CLEAR ANODIZED FINISH. CONFIRM MOUNTING DETAILS/ BORDERS WITH ARCHITECT PRIOR TO ORDER.
NOTES: 1. SIZES AND QUANTITIES AS NOTED ON DRAWINGS. 2. COLOURS TO BE SELECTED FROM STANDARD FINISH CHART BY ARCHITECT. 3. EH PRICE, TITUS, AND NAILOR ARE ACCEPTABLE EQUALS TO SPECIFIED PRODUCTS.			

DOMESTIC WATER EQUIPMENT SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL	REMARKS
HPWH-1.1, 1.2	COMMERCIAL HEAT PUMP DOMESTIC WATER HEATER	RHEEM HYBRID ELECTRIC COMMERCIAL HPLD60	208/1/60 30 A 5000 W AT 240V	72 LBS RATED CAPACITY, 1880 mm H x 616 mm DIA (74" H x 24" D) TANK. 27 GPH RECOVERY WITH 90°F RISE. 5000 W AT 240V ELECTRIC ELEMENT FOR SUPPLEMENTAL HEATING. 3.70 UNIFORM ENERGY FACTOR (UEF), 89 UEF FIRST HOUR RATING GPH. 4200 BTU/H SPACE HEATING LOAD, 281 LBS SHIPPING WEIGHT.
XT-1	DHW EXPANSION TANK	AMTROL THERM X-TROL ST-35CL	-	SERVES DOMESTIC HOT WATER HEATERS. ASME BLADDER TANK, 35 L VOLUME, 35 L ACCEPTANCE CAPACITY FOR DOMESTIC HOT WATER. 25 mm CONN. 250 DIA x 948 (10" x 37") HIGH, 34 kg (76 LBS) SHIPPING WEIGHT.

PUMP SCHEDULE						
TAG	SERVICE	DESCRIPTION	PERFORMANCE	MAKE AND MODEL	ELECTRICAL	REMARKS
P-DHW	DHW RECIRCULATION PUMP	ECM HIGH-EFFICIENCY CIRCULATOR	2.3 GPM @ 6 FT. HEAD (MEDIUM SPEED)	TACO 006e3 ECM	0.54 A MAX 120/1/60 OUTLET REQUIRED	ECM HIGH-PERFORMANCE, VARIABLE SPEED, WET-ROTOR CIRCULATOR WITH-HIGH-EFFICIENCY ECM PERMANENT MAGNET TECHNOLOGY. MAX. FLOW: 11 GPM, MAX. SHUT OFF HEAD: 13 FEET, MAX. OPERATING PRESSURE: 150 PSI (10.3 BAR), COMPOSITE CASING, STATOR HOUSING, CARTRIDGE AND IMPELLER, MATERIALS SUITABLE FOR POTABLE WATER.

HUMIDIFICATION EQUIPMENT SCHEDULE			
TAG	DESCRIPTION	MANUFACTURER AND MODEL	REMARKS
HUM	WALL-HUNG CARTRIDGE TYPE HUMIDIFIER	CONDAIR EL 010	1-5 kg/h (2-10 lb/h) STEAM CAPACITY C/W 20-100% MODULATING CONTROL, DUCT MOUNTED DISTRIBUTOR ASD 18, REPLACEABLE CYLINDER, AUTOMATIC FILL AND DRAIN CYCLES, INTEGRAL DRAIN WATER TEMPERING AND OPTIONAL DRAIN WATER TEMPERING TO 49°C (120°F), BACNET IP INTERFACE. PROVIDE AIR PROVING SWITCH AND HIGH LIMIT SENSOR IN DUCT AND HUMIDISTAT IN SPACE. 670 H x 420 W x 364 D mm, 25 kg OPERATING WEIGHT.

UNIT HEATER SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER AND MODEL	HEATING	ELECTRICAL	REMARKS
FFH-1 (SUPPLIED BY MECH, INSTALLED BY ELEC)	ELECTRIC WALL FAN HEATER	STELPRO AWF1507C24	1500 W	208/1/60	416 WIDTH x 587 HEIGHT x 134 mm (16-3/8"W x 23-1/8"H x 5-5/16") DEEP. PROVIDE WHITE RODGERS F29-0227 THERMOSTAT GUARD.
EUH-1 (SUPPLIED BY MECH, INSTALLED BY ELEC)	FORCED FLOW ELECTRIC FAN HEATER, SERVING MECHANICAL ROOM AS BACK-UP HEAT	STELPRO ARUH4C24CHAR	3000 W NOMINAL	208/1/60 MCA: 8.3A	332 x 305 x 300 mm (13-1/16"L X 12"W X 11-13/16"H), UNIVERSAL WALL OR CEILING MOUNTING BRACKET INCLUDED, THERMALLY PROTECTED WITH AUTOMATIC RESET. 9 KG (20 LBS) WEIGHT.
UH-1	SEPARATED COMBUSTION LOW STATIC AXIAL FAN GAS UNIT HEATER	REZNOR UDZ 300	INPUT / OUTPUT 300 / 249 MBH	115/1/60 11 FLA, 20 MOCP 1086 W	1041 WIDTH x 1016 DEEP x 867 HIGH 83% THERMAL-EFFICIENT GAS UNIT HEATER WITH SEPARATED COMBUSTION, 1813 L/s (3843 CFM), 1/2 HP FAN, 126 kg. PROVIDE 2-STAGE GAS CONTROL VALVE AND 409 STAINLESS STEEL HEAT EXCHANGER. CONTROL VIA BAS.
NOTES: 1. ELECTRIC FORCED FLOW HEATERS TO BE SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL CONTRACTOR, AND CONTROLLED BY BAS.					

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2	ISSUED FOR TENDER	16 FEB 2023
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CLIENT :

CONSULTANT :

PROFESSIONAL SEAL :

DWG TITLE :

ORIENTATION :

DATE :

SCALE :

DWG STATUS :

YORK REGION PRS #32

RFTC-604-22-10

53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN



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PROJECT NO: TBA2002

DRAWING NO: M2.0

REVISION :

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YORK REGION PRS #32

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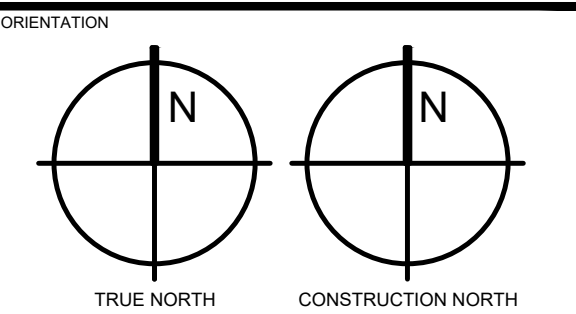
53 JACOB KEEFER PARKWAY, CITY OF VAUGHAN

York Region

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PROJECT No.	TBA2002	
DRAWING No.	M2.1	REVISION

PLUMBING FIXTURE SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER AND MODEL	TRIM	SERVICE					REMARKS
				DRAIN	VENT	DCW	DHW	ELEC.	
WC	FLOOR MOUNTED WATER CLOSET	AMERICAN STANDARD CHAMPION PRO RIGHT HEIGHT ELONGATED TOILET 211AA	AMERICAN STANDARD 5325.010	75mm (3")	38mm (1.5")	15mm (0.5")	N/A	N/A	4.8 LPF LOW CONSUMPTION FLOOR MOUNT TANK TYPE TOILET WITH MaP SCORE OF 1000 g. 768mm x 483mm x 765mm HIGH (30" x 19" x 31" HIGH), 419mm HIGH ADA HEIGHT SEAT, WHITE VITREOUS CHINA, ELONGATED BOWL, FULLY GLAZED 2-3/8" TRAPWAY, PROVIDE WHITE ELONGATED SLOW CLOSE PLASTIC SEAT AND COVER, PROVIDE QUARTER-TURN VALVE STOPS W/ 3" (75mm) CHROME NIPPLE ON SUPPLY.
L	LAVATORY COUNTERTOP SINK	AMERICAN STANDARD MEZZO 9960.803	CHICAGO FAUCETS 420-T41E2805ABCP	32mm (1.25")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	482mm x 381mm x 175mm DEEP (19" x 15" x 6-7/8" DEEP) SEMI-COUNTERTOP SELF-RIMMING SINK c/w REAR OVERFLOW, 3-HOLE FAUCET ON 100mm (4") CENTRES, WHITE CHINA, DECK MOUNTED LOW-LEAD FAUCET WITH 4" FIXED CENTERS, VANDAL PROOF PRESSURE COMPENSATING NON-AERATING 1.9 LPM (0.5 GPM) OUTLET, VANDAL PROOF SINGLE-LEVER HANDLE, ADA COMPLIANT, PROVIDE OFFSET STRAINER, CAST BRASS P-TRAP W/CLEANOUT, POLISHED CHROME, ESCUTCHEON PLATE AND QUARTER-TURN VALVE STOPS W/ 3" CHROME NIPPLE.
SH	BARRIER-FREE SHOWER	TILED ENCLOSURE BY ARCHITECTURAL TRADES	CHICAGO FAUCETS 1907-620LCP CHICAGO FAUCETS 152-LADCP CHICAGO FAUCETS 763-CP WATTS SONB-SQ	50mm (2")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	POLISHED CHROME THERMOSTATIC/PRESSURE BALANCING WALL-MOUNTED SHOWER VALVE c/w VALVE CARTRIDGE, 15mm (0.5") NPT COPPER HOT AND COLD SUPPLY INLETS AND OUTLETS, INTEGRAL SERVICE STOPS c/w CHECKS TO PREVENT CROSS-FLOW, 5.7 LPM (1.5 GPM) AT 80 PSI WALL-MOUNTED CHROME SHOWER HEAD WITH BALL JOINT, CHROME PLATED WALL-MOUNTED HAND SHOWER, 5.7 LPM (1.5 GPM) FLOWRATE c/w INTEGRAL AIR VENT, 24" ADA GRAB BAR, 15 mm (0.5") FEMALE INLET, 1524mm (60") FLEXIBLE METAL HOSE c/w AUTO-DRAIN HOSE ASSEMBLY, CHROME PLATED BRASS LEVER DIVERTER VALVE, HEAVY DUTY SHOWER FLOOR DRAIN EPOXY COATED CAST IRON BODY WITH HEAVY DUTY SQUARE CHROME PLATED NICKEL BRONZE STRAINER.
S-1	COUNTERTOP SINK	FRANKE LBD4410P-1	CHICAGO FAUCETS 434-ABCP	38mm (1.5")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	356mm x 356 mm x 254 mm DEEP (14" x 14" x 10" DEEP) DOUBLE BOWL COUNTERTOP MOUNT SINK WITH REAR LEDGE, 479mm x 794 mm (19" x 31") OVERALL DIMENSIONS, 18 GA. TYPE 304 STAINLESS STEEL, SINGLE CUSTOM HOLE AT CENTRE REAR, SELF-RIMMING, SATIN FINISH c/w FOR EACH BOWL, 89mm (3-1/2") WASTE ASSEMBLY W/ 39mm (1-1/2") TAILPIECE, DECK MOUNTED CHROME PLATED LOW-LEAD SINGLE-HANDLE PULL OUT SPRAY FAUCET, 5.7 LPM (1.5 GPM) FLOW RATE, PROVIDE INLINE CHECK VALVES FOR BOTH HOT AND COLD LINES, QUARTER-TURN ANGLE STOPS, FLEXIBLE METAL RISERS, P-TRAP AND CHROME PLATED ESCUTCHEON PLATES.
S-2	STAINLESS STEEL FREE STANDING SINGLE COMPARTMENT SINK	FRANKE SDL2436R-1	CHICAGO FAUCETS 510-G613L12XKCA8	38mm (1.5")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	1578 mm W x 724 mm D x 889 mm H TO TOP OF BASIN (62-1/8"x28-1/2"x35") DOUBLE BASIN (610 mm W x 457 mm D x 356 mm H (24" x 18" x 14") BASIN DEPTH) 14 GA. TYPE 304 STAINLESS STEEL SCULLERY SINK WITH RIGHT HAND DRAINBOARD, POLISHED SATIN FINISH c/w ROLLED RIM, 89mm (3-1/2") CRUMB CUP STRAINER, 39mm (1-1/2") BRASS TAILPIECE, STAINLESS STEEL TUBULAR LEGS, INTEGRAL 229mm (9") HIGH STAINLESS STEEL BACKSPLASH, 1118mm (44") TOTAL HEIGHT, CHROME PLATED WALL-MOUNTED TWO HANDLE FAUCET, 203mm (8") CENTERSET, SOLID BRASS BODY, QUARTER TURN LEVER HANDLES / CERAMIC DISC VALVE CARTRIDGES c/w INTEGRATED CHECK VALVE, c/w TUBULAR 241 mm (9-1/2") SWING SPOUT WITH LEVER HANDLE, 3.8 LPM (1.0 GPM) PRE-RINSE PULL-DOWN ADJUSTABLE SPRAY WITH 90-LABCP PRE-RINSE SPRAY VALVE, PROVIDE QUARTER-TURN ANGLE STOPS, FLEXIBLE METAL RISERS, P-TRAP AND CHROME PLATED ESCUTCHEON PLATES.
MS	SERVICE / MOP SINK	STERN WILLIAMS SB-202-L	CHICAGO FAUCETS 897-XK-CP STERN WILLIAMS T-35 STERN WILLIAMS T-40 STERN WILLIAMS BP BACK SPLASH PANEL	50mm (2")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	610mm (24") WIDE x 914mm (36") x 305mm (12") HIGH FLOOR MOUNTED TERRAZZO SERVICE MOP SINK WITH REAR AND LEFT WALL TILING FLANGE, CAST BRASS DRAIN W/STAINLESS STEEL STRAINER, 76mm (3") OUTLET, PROVIDE 914mm (36") LONG HOSE W/ 19mm (3/4") CHROME COUPLING AND STAINLESS STEEL WALL BRACKET, STAINLESS STEEL 610mm (24") MOP HANGER W/ 3 RUBBER SPRING LOADED GRIPS, 20 GA. TYPE 304 STAINLESS STEEL BACKSPLASH PANEL AND TRAP, CHROME PLATED WALL-MOUNTED TWO HANDLE FAUCET, 203mm (8") CENTERSET, SOLID BRASS EXPOSED BODY, QUARTER TURN CERAMIC DISC VALVE CARTRIDGES, UNRESTRICTED HOSE END OUTLET, 203mm (8") PROJECTION SPOUT W/ ATMOSPHERIC VACUUM BREAKER AND BUCKET HOOK, 60mm (2-3/8") METAL VANDAL PROOF LEVER HANDLES WIRED AND BLUE INDEX BUTTONS.
EW	EYEWASH	BRADLEY S19224	NAVIGATOR S19-2000 EFX8	32mm (1.25")	32mm (1.25")	15mm (0.5")	15mm (0.5")	N/A	WALL-MOUNTED BARRIER-FREE EYE/FACE WASH STATION c/w PUSH-HANDLE ACTIVATED 19.2 LPM (5.1 GPM) EYE AND FACE SPRAY W/ CLEAR PLASTIC FLIPTOP DUST COVER, POWDER COATED CAST ALUMINUM FLAG HANDLE ACTIVATION, 13mm (1/2") IPS CHROME PLATED BRASS STAY-OPEN BALL VALVE W/TEFLON SEAL, HEAVY DUTY CAST ALUMINUM WALL BRACKET W/ CORROSION RESISTANT FINISH, 32mm (1-1/4") NPT FEMALE OUTLET, PROVIDE VANDAL-RESISTANT TEMPERATURE ADJUSTABLE EMERGENCY THERMOSTATIC MIXING VALVE, WITH COLD WATER BYPASS, DIAL THERMOMETER, 26 LPM (7 GPM) FLOW CAPACITY @ 30 PSI, PROVIDE HEAVY DUTY CAST BRASS P-TRAP W/ADJUSTABLE BODY, SLIP NUT, 32mm (1-1/4"), SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.
HR	HOSE REEL	REELCRAFT D83075-OLP	VIKAN 93244 HEAVY DUTY WATER GUN	N/A	N/A	15mm (0.5")	15mm (0.5")	N/A	206 mm WIDE x 610 mm HIGH x 645 mm DEEP (8-1/8" WIDE x 24" HIGH x 25-3/8" DEEP) WALL-MOUNTED HEAVY DUTY SPRING-RETRACTABLE HOSE REEL c/w 23 m (75'-0") MEDIUM DUTY 20mm (3/4") HOSE, 20mm (3/4") DCW & DHW ISOLATION VALVES UPSTREAM OF THERMOSTATIC MIXING VALVE, HEAVY DUTY WATER GUN WITH ADJUSTABLE PRESSURE AND JET PATTERN, ADJUSTABLE BEAM, 8 GPM AT 80 PSI.
NFHB	EXPOSED NON-FREEZE, ANTI-SIPHON, AUTO DRAINING EXTERIOR WALL HOSE BIBB	AS PER SPEC.	-	N/A	N/A	20mm (0.75")	N/A	N/A	VANDAL RESISTANT c/w INTEGRAL VACUUM BREAKER, LOCKING AND LATCHING COVER, ROD CASING SUITABLE FOR WALL THICKNESS, CENTRE APPROX 30" (750mm) ABOVE OUTSIDE GRADE & PROVIDE INTERIOR SHUT-OFF VALVE c/w DRAIN PORT.
HB	EXPOSED ANTI-SIPHON, AUTO DRAINING INTERIOR WALL HOSE BIBB	AS PER SPEC.	-	N/A	N/A	20mm (0.75")	20mm (0.75")	N/A	VANDAL RESISTANT c/w INTEGRAL VACUUM BREAKER, CENTER APPROX 30" (750mm) A.F.F.
FD FFD HD	FLOOR DRAIN / FUNNEL FLOOR DRAIN / HUB DRAIN	AS PER SPEC.	-	75mm (3") OR PER PLAN	38mm (1.5")	c/w TRAP PRIME LINE	N/A	N/A	SELECTION TO SUIT FLOOR FINISH AND APPLICATION c/w TRAP PRIMER LINE.
1. COLOUR OF ALL VITREOUS CHINA FIXTURES TO BE WHITE. 2. EXACT LOCATION INCLUDING INSTALLATION HEIGHT OF ALL FIXTURES TO BE DETERMINED BY ARCHITECT. 3. EXACT QUANTITY OF FIXTURES AS INDICATED ON PLANS. 4. WALL-HUNG FIXTURES COMPLETE WITH CARRIERS.									

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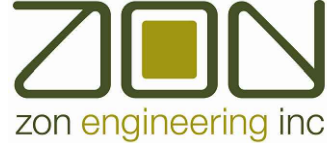
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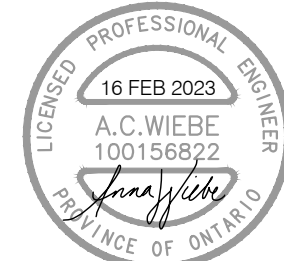
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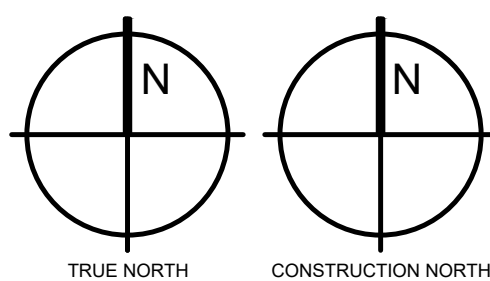
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DWG TITLE

PLUMBING &
DRAINAGE

ORIENTATION



DATE 2020-06-10

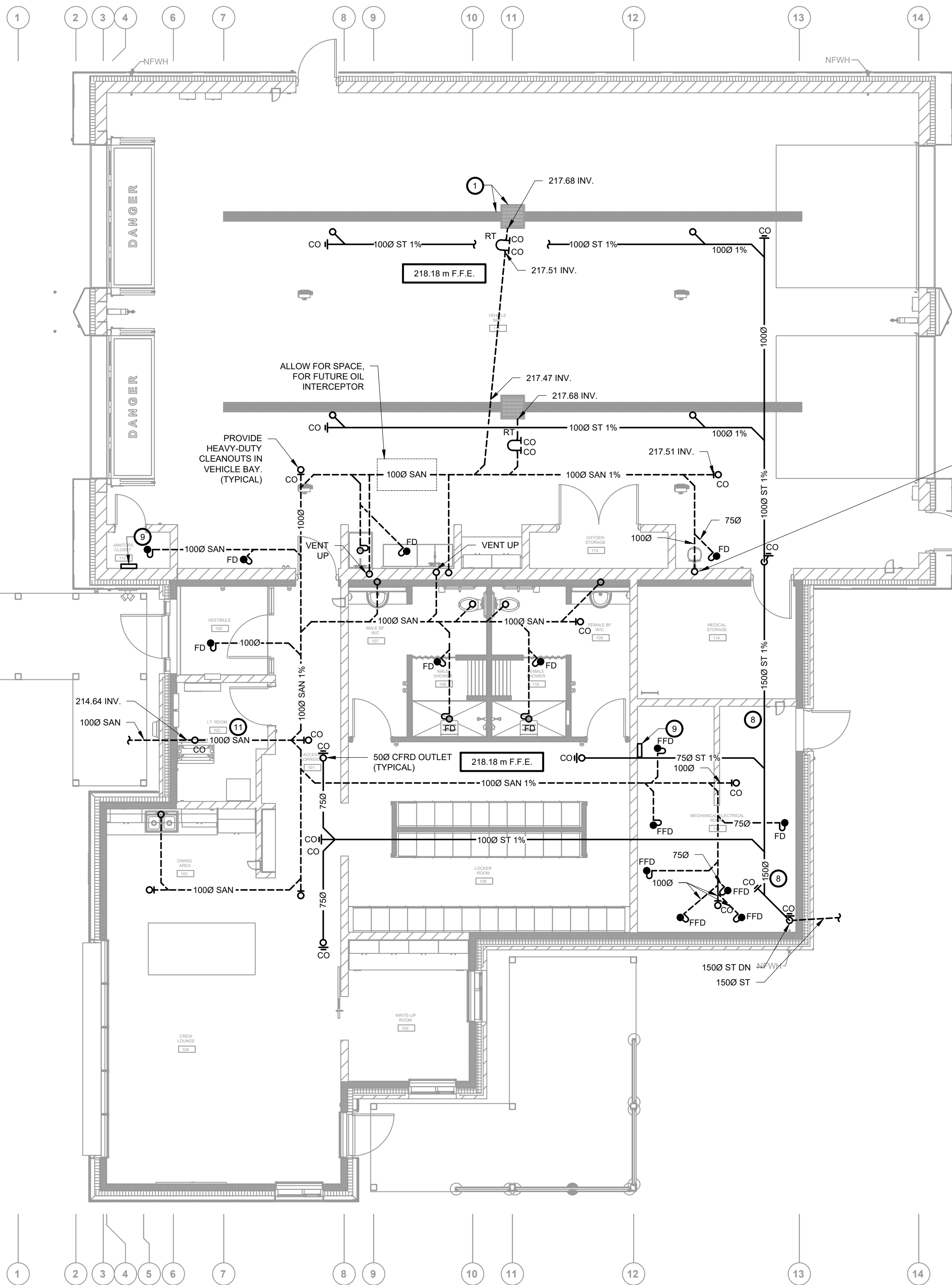
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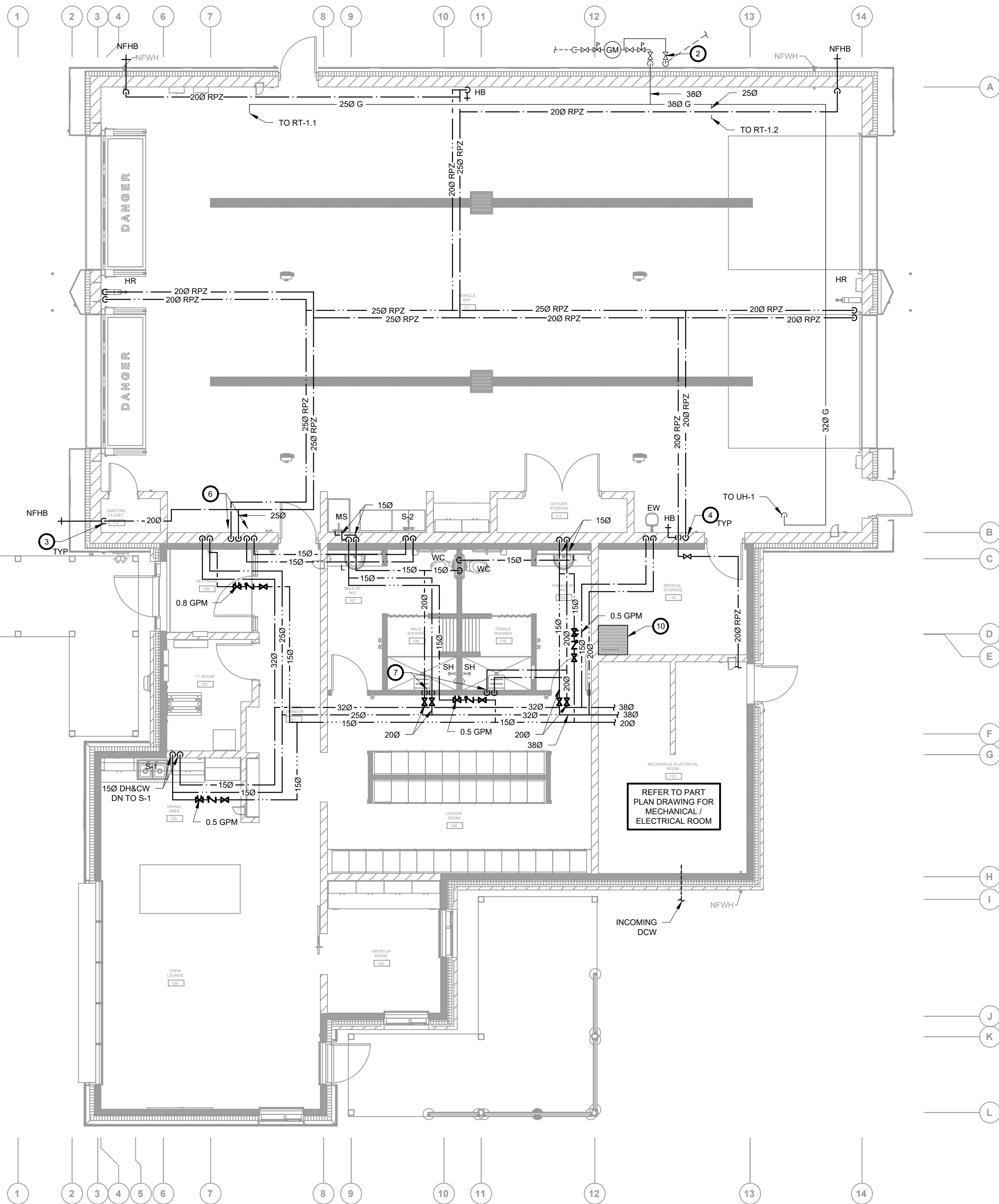
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DRAINAGE PLAN
MAIN FLOOR
1:75

- GENERAL NOTES FOR PLUMBING SYSTEMS:**
- UNLESS OTHERWISE INDICATED, SIZES SHOWN ARE IN MILLIMETERS (mm). DO NOT SCALE MECHANICAL DRAWINGS. FOR DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.
 - PROVIDE WATER, SANITARY & VENT PIPING TO ALL FIXTURES ACCORDING TO ONTARIO BUILDING CODE REQUIREMENTS & C/W TRAPS, TRAP PRIMING DEVICES, ISOLATION VALVES, ETC. NOTE THAT IN SOME CASES, BRANCH PIPING TO FIXTURES HAS NOT BEEN INDICATED. ALL SUCH PIPING SHALL BE PROVIDED ACCORDING TO CODE REQUIREMENTS (WHERE APPLICABLE. REFER TO RISER DIAGRAMS FOR ADDITIONAL DETAILS).
 - UNDERGROUND BRANCH SANITARY PIPING TO STAINLESS STEEL SINKS SHALL BE MINIMUM 50 mm DIA.
 - ALL WATER, SANITARY & VENT BRANCH PIPING TO INDIVIDUAL FIXTURES SHALL BE SIZED IN ACCORDANCE WITH THE DRAWINGS ENCLOSED HEREIN & TO OBC REQUIREMENTS UNLESS OTHERWISE NOTED. SANITARY PIPE SIZES / ARRANGEMENT MAY BE ALTERED TO SUIT VENTING REQUIREMENTS PROVIDED OBC REQUIREMENTS ARE MET.
 - VERIFY THE EXACT LOCATION, INVERTS, SIZES, ETC. OF ALL SERVICE PIPING PRIOR TO NEW INSTALLATIONS. INVERTS SHOWN ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED.
 - MECHANICAL SERVICES, DEVICES AND/OR EQUIPMENT PENETRATING FIRE SEPARATION(S), INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, ETC.) AND THOSE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING (ZERO-RATED, NON-RATED OR SIMILAR), SHALL BE TIGHTLY FITTED & CAULKED TO CONTROL SMOKE SPREAD IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
 - MECHANICAL SERVICES, DEVICES AND/OR EQUIPMENT PENETRATING FIRE SEPARATIONS REQUIRED TO HAVE FIRE RESISTANT RATING (45 MIN, 1 HR, 2 HR, ETC.) SHALL BE PROVIDED W/ APPROVED FIRE STOP DEVICES & METHODS IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
 - PIPING, INSULATION & OTHER MATERIALS INSTALLED WITHIN AIR DUCTS, CEILING RETURN AIR PLENUMS AND DUCT CHASES USED AS AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25 AND 50, RESPECTIVELY. ABS/PVC PIPING, WOOD FRAMING, FT-4/CMR WIRING & SIMILAR MATERIALS ARE NOT PERMITTED AND SHALL BE SEPARATED FROM PLENUM BY DRYWALL OR SIMILAR MEANS (TYPICAL).
 - CO-ORDINATE ALL SERVICES WITH EACH DIVISION BEFORE INSTALLATION OF PIPES, DUCTS, ETC. ROUTE PIPING ON-SITE TO CLEAR DUCTWORK, BUILDING STRUCTURE, ETC. DRAWINGS ARE SCHEMATIC IN NATURE - ALL WORK MUST BE CO-ORDINATED ON-SITE.

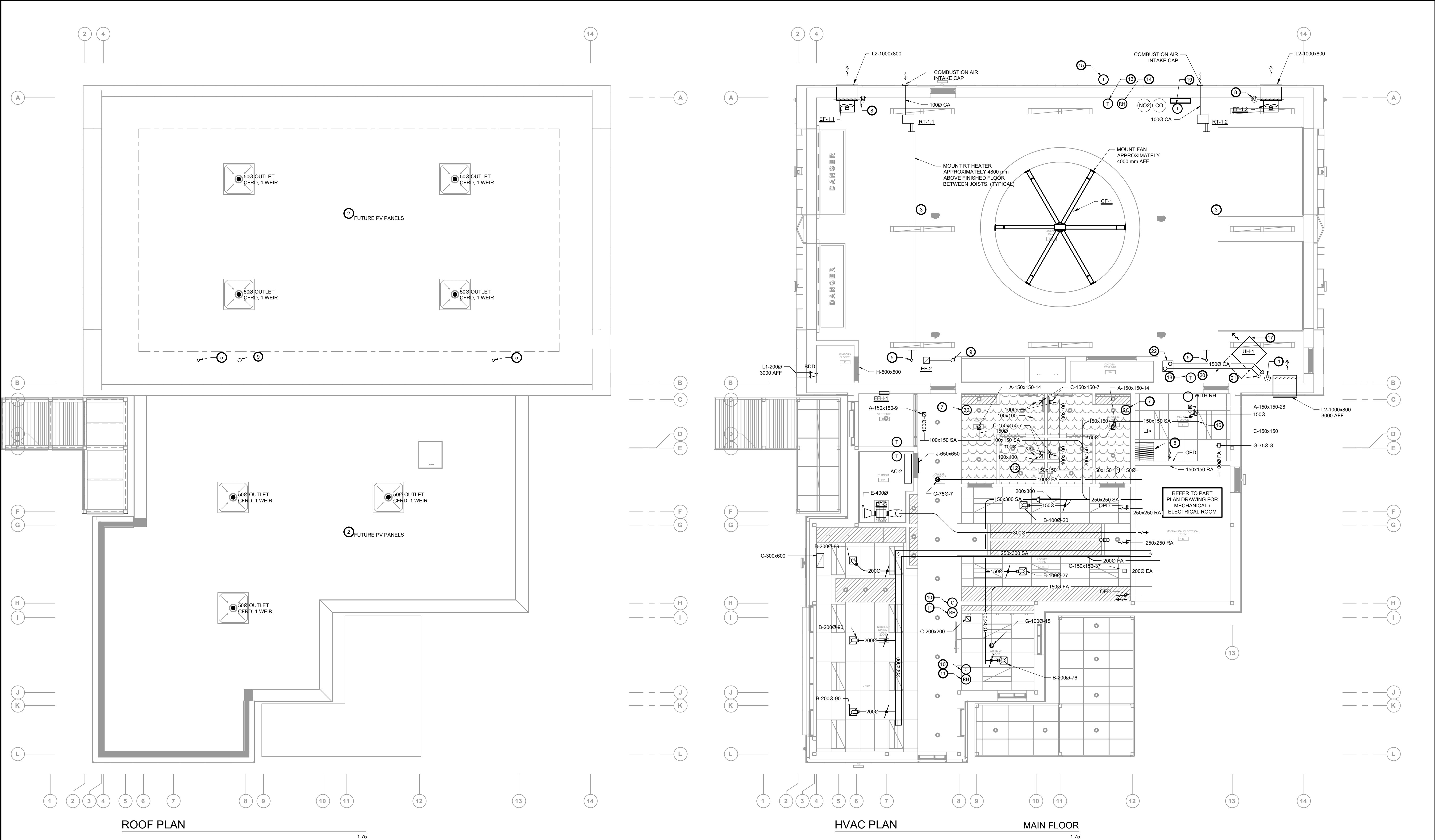
VENT PIPING UP IN WALL, COLLECTED IN
CEILING & EXTENDED THRU ROOF.
ARRANGEMENT BY MECHANICAL
CONTRACTOR. VENT PIPING NOT
GENERALLY SHOWN. LIMIT VENTING
THROUGH ROOF WHERE POSSIBLE TO
HELP ACCOMMODATE FUTURE PV PANELS.
(TYPICAL)



SUPPLY PLUMBING PLAN
MAIN FLOOR
1:75

NOTES ON THIS DRAWING PAGE:

- TRENCH DRAINS AND CATCH BASINS BY ARCHITECTURAL TRADES. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. PLUMBER SHALL COORDINATE WITH ARCHITECTURAL TRADES THE DRILLING OF THE CATCH BASIN FOR OUTLET PIPING.
- PROVIDE PERMANENT SIGN CLEARLY INDICATING WHICH VALVE AND PIPING SERVES THE GAS GENERATOR.
- PROVIDE ISOLATION VALVE REACHABLE FROM FLOOR C/W DRAIN PORT. (TYPICAL)
- RUN INSULATED PIPING DOWN FACE OF WALL WHERE IT IS EXTERIOR WALL TO OUTDOORS (ABOVE LOWER ROOF LEVEL), AND RUN DOWN CONCEALED IN WALL WHERE IT BECOMES INTERIOR WALL. FOR ALL VERTICAL PIPING ALONG GRIDLINE B. (TYPICAL)
- VENTING NOT SHOWN. LIMIT VENTING IN LIVING AREA TO ONE ROOF PENETRATION TO MAXIMIZE ALLOWABLE AREA FOR FUTURE PHOTOVOLTAIC PANELS.
- PIPING DOWN IN WALL TO REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS (QTY. 4 TOTAL) LOCATED APPROXIMATELY 1000 mm AFF ON WALL. PROVIDE AIR GAP AND PIPING DOWN TO FLOOR. REFER TO PLUMBING SCHEMATIC.
- 150 DH&CW DOWN TO DIVERTER VALVE AND BOTH HANDHELD AND WALL-MOUNTED SHOWERHEAD.
- AVOID RUNNING PLUMBING (SUPPLY OR DRAINAGE) DIRECTLY OVER OR NEAR ELECTRICAL PANELS.
- PROVIDE ELECTRONIC TRAP PRIMER MANIFOLD TO SERVE ALL NEARBY FLOOR DRAIN TRAPS. MOUNT AT SUITABLE HEIGHT FOR MAINTENANCE AND TRAP PRIMER PIPING RUN LENGTH (1 FT OF HEIGHT REQUIRED PER 20 FT PIPING LENGTH OR AS PER MANUFACTURER INSTRUCTION).
- KEEP PIPING OUT OF ROOF HATCH ACCESS AREA.
- ELEVATION DROP IN DRAINAGE PLUMBING TO GET BELOW FROSTLINE AND MEET SITE CONNECTION INVERT.



- GENERAL NOTES FOR HVAC SYSTEMS:**

 - UNLESS OTHERWISE INDICATED, SIZES SHOWN ARE MILLIMETERS (mm). DO NOT SCALE MECHANICAL DRAWINGS. FOR DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.
 - MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATION(S), INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, OR SIMILAR) AND THOSE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING, (ZERO-RATED, NON-RATED OR SIMILAR), SHALL BE TIGHTLY FITTED & CAULKED TO CONTROL SMOKE SPREAD IN COMPLIANCE W/ NBC & ASSOCIATED STANDARDS AND TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION. FOR FIRE DAMPERS / FIRE FLAPS, INSTALL RETAINING ANGLES TIGHT TO WALL / FLOOR / CEILING SO AS TO RETARD THE PASSAGE OF SMOKE BUT DO NOT CAULK AROUND ANGLES UNLESS APPROVED BY DAMPER MANUFACTURER.
 - MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATIONS REQUIRED TO HAVE FIRE RESISTANT RATINGS, (45 MIN, 1 HR, 2 HR, OR OTHERWISE), SHALL BE PROVIDED W/ APPROVED FIRE STOP DEVICES & METHODS IN COMPLIANCE W/ NBC & ASSOCIATED STANDARDS AND TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
 - PIPING, INSULATION & OTHER MATERIALS INSTALLED WITHIN AIR DUCTS, CEILING RETURN AIR PLENUMS AND DUCT CHASES USED AS AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25 AND 50 RESPECTIVELY. ASS PVC PIPING, WOOD FRAMING, FT-4/CMR WIRING & SIMILAR MATERIALS ARE NOT PERMITTED AND SHALL BE SEPARATED FROM PLENUM BY DRYWALL OR SIMILAR MEANS (TYPICAL).
 - GENERAL WORK INCLUDING FURRED IN PIPE & DUCT SPACES TO BE PROVIDED BY ARCH TRADES UNLESS OTHERWISE INDICATED.
 - PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT, EXCEPT CEILING MOUNTED FANS W/ CAPACITIES LESS THAN 150 CFM (70 L/S).
 - CO-ORDINATE ALL SERVICES WITH EACH DIVISION BEFORE INSTALLATION OF DIFFUSERS/GRILLES, DUCTWORK, PIPING, ETC. ROUTE NEW SERVICES ON SITE TO CLEAR BUILDING STRUCTURE, ETC. DRAWINGS ARE SCHEMATIC IN NATURE - ALL WORK MUST BE CO-ORDINATED ON SITE.
 - REFLECTED CEILING PLANS SHOWN ARE FOR GENERAL COORDINATION ONLY. REFER TO ARCHITECTURAL RCP PLANS FOR COORDINATION OF EXACT LOCATIONS OF AIR DIFFUSERS/GRILLES.
- NOTES ON THIS DRAWING:**

 - 1000x800 OA LOUVRE C/W INSULATED OPPOSING BLADE MOTORIZED DAMPER CONNECTED TO CO/NO2 VENTILATION SYSTEM FOR VEHICLE BAY. COORDINATE HEIGHT W/ ARCHITECTURAL. SUPPLY LINE VOLTAGE ACTUATOR PROVIDED BY MECHANICAL. WIRING BY ELECTRICAL TRADES.
 - NOTE FOR FUTURE PV PANEL / INVERTER INSTALLATION: ALLOW FOR PONDING DEPTH OF 150 mm.
 - AS PER RADIANT TUBE HEATER MANUFACTURER'S GUIDELINES, MAINTAIN CLEARANCE TO COMBUSTIBLES AND ITEMS INCLUDING BUT NOT LIMITED TO: FAN, GAS PIPING, WATER PIPING, AND TOP OF AMBULANCES.
 - MOUNT FAN COIL VERTICALLY OR HORIZONTALLY, ENSURING ACCESS TO FAN MAINTENANCE.
 - 1000 GAS VENT UP THROUGH ROOF, TERMINATING 600 mm ABOVE NEARBY ROOF PARAPET, C/W ROOF TERMINATION CAP.
 - KEEP DUCTS OUT OF ROOF HATCH ACCESS AREA.
 - PROVIDE VANE 20/40/60 TIMER SWITCH FOR ERV HIGH SPEED, AND VANE HUMIDISTAT CONTROL FOR ERV HIGH SPEED TO LIMIT HUMIDITY IN WASHROOM TO A MAXIMUM OF 55%. PROVIDE LOW VOLTAGE WIRING.
 - 120 V LINE VOLTAGE ACTUATOR PROVIDED BY MECHANICAL, WIRING BY ELECTRICAL.
 - TERMINATE 1500 VENTILATION EXHAUST THROUGH ROOF WITH GOOSENECK TERMINATION, OPEN END TERMINATING 500 mm ABOVE NEARBY ROOF PARAPET.
 - FAN COIL CONTROLLER WITH TEMPERATURE SENSOR.
 - HUMIDITY SENSOR FOR MONITORING BY BAS.
 - PROVIDE ALUMINUM DUCT FROM SHOWER EXHAUST GRILLE TO MECHANICAL ROOM.
 - PROVIDE BLACK BULB RADIANT TEMPERATURE SENSOR, WIRED TO BAS.
 - PROVIDE RELATIVE HUMIDITY SENSOR, WIRED TO BAS.
 - PROVIDE OUTDOOR AIR TEMPERATURE SENSOR, WIRED TO BAS.
 - LOCATE END CAPS 600 mm DOWNSTREAM OF LAST TAKE-OFF BRANCH. (TYPICAL)
 - MOUNT UNIT AT APPROXIMATELY 2700 mm AFF (300 mm LOWER THAN BOTTOM OF INTAKE LOUVER)
 - PROVIDE TEMPERATURE SENSOR LOCAL TO UNIT HEATER UH-1, WIRED TO BAS.
 - AIR TEMPERATURE SENSOR.
 - 1500 GAS VENT. INSULATE ENTIRE LENGTH OF VENT PIPING TO CONCENTRIC VENT BOX WITH 1" FOIL FACED MINERAL WOOL INSULATION.
 - PROVIDE MANUFACTURER'S MINIMUM STRAIGHT LENGTH FROM UNIT. PROVIDE TEE WITH DRIP LEG C/W ACCESSIBLE CLEANOUT CAP AT LOW POINT.
 - CONCENTRIC VENT TERMINATION. INSTALL BOTTOM OF INLET AT 450 mm ABOVE PARAPET LEVEL. INSTALL BOTTOM OF EXHAUST TERMINAL 450 mm ABOVE INLET. LOCATE ROOF INLET/OUTLET IN THIS LOCATION FOR ENOUGH DISTANCE FROM RADIANT TUBE VENT. LEAVES SPACE FOR FUTURE SOLAR PV. ACCESSIBLE FOR MAINTENANCE, FAR FROM EDGE OF ROOF ON EAST SIDE SO LESS VISIBLE, WITHIN MANUFACTURER MAXIMUM LENGTH.

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1	ISSUED FOR PERMIT	26 JAN 2022

PROJECT :

CLIENT :

YORK REGION PRS #32

RFTC-604-22-10

53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

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CONSULTANT

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DWG TITLE
ROOF AND HVAC

ORIENTATION

DATE

2020-06-10

SCALE

As indicated

DRAWN BY

AW

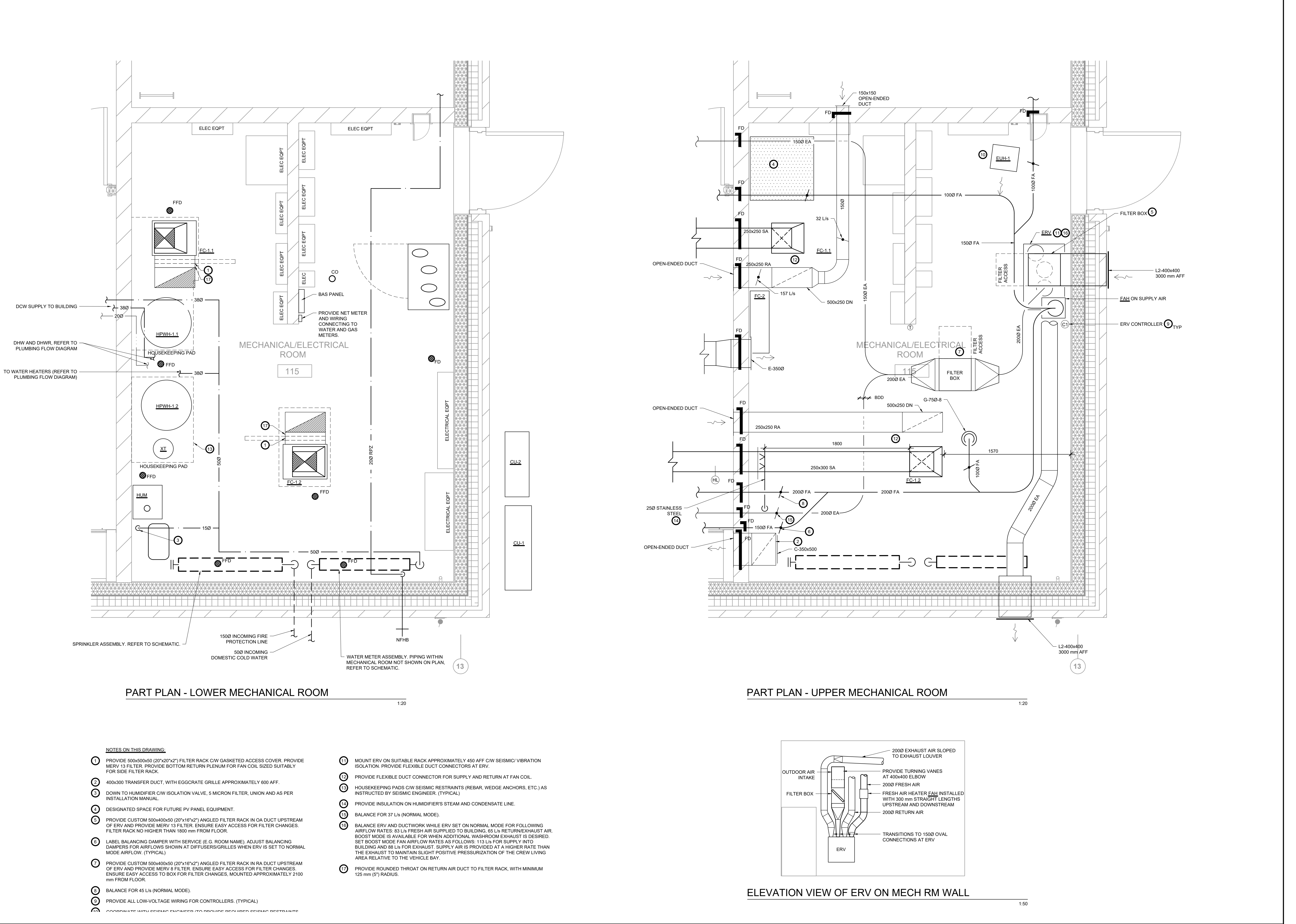
PROJECT NO.

TBA2002

DRAWING NO.

M4.0

REVISION



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DWG TITLE

PART PLAN - MECHANICAL / ELECTRICAL ROOM

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE: 2020-06-10

SCALE: As indicated DRAWN BY: AW

DWG STATUS: DESIGN

PROJECT No: TBA2002

DRAWING No: M5.0 REVISION

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YORK REGION PRS #32
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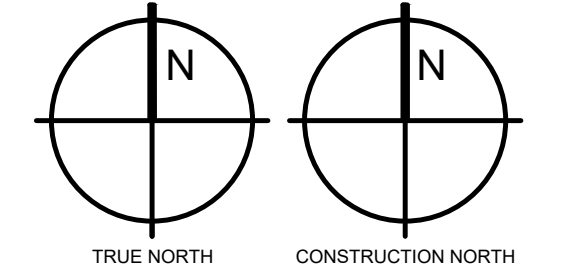
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DWG TITLE

DETAILS

ORIENTATION



DATE

2020-06-10

SCALE

As indicated

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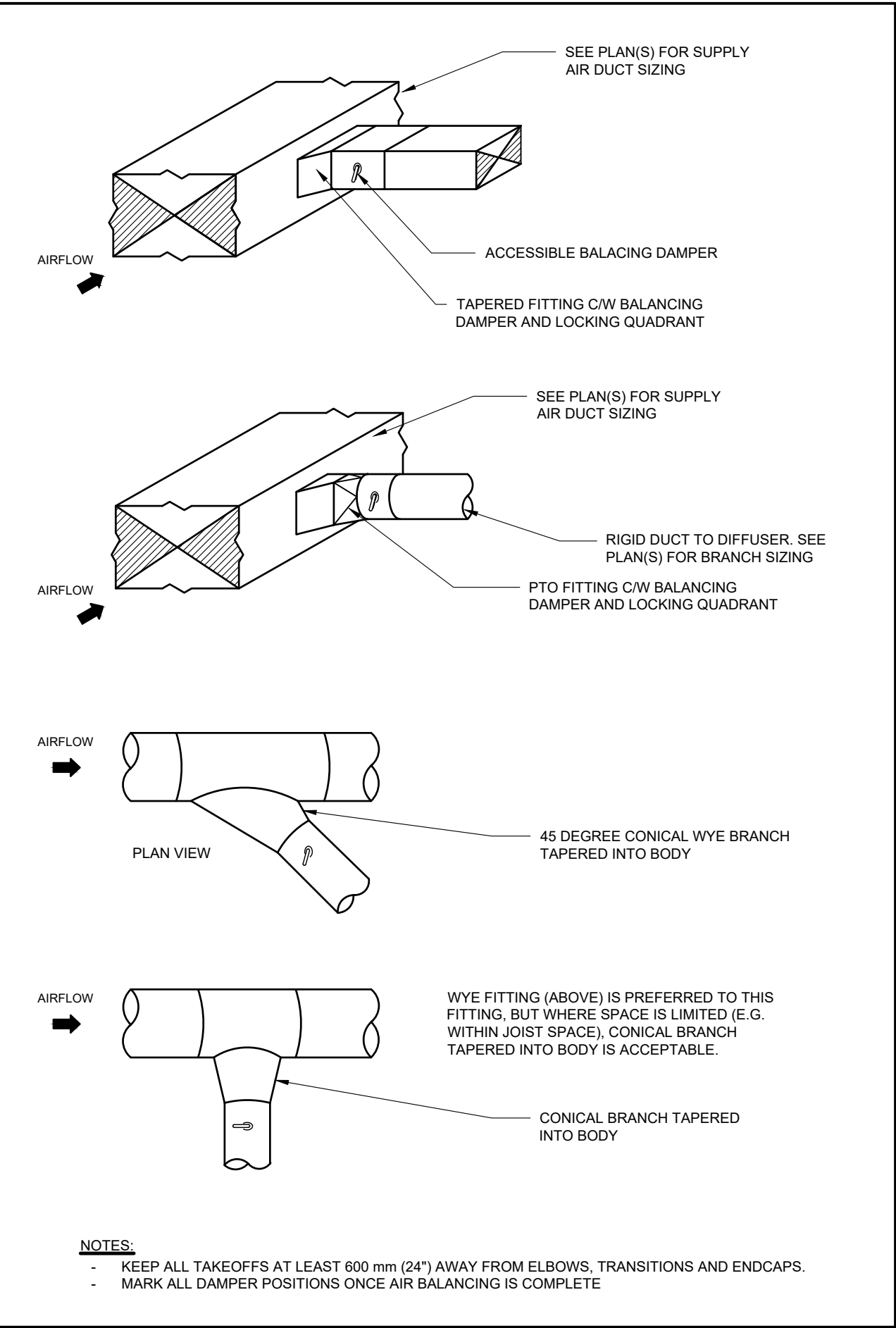
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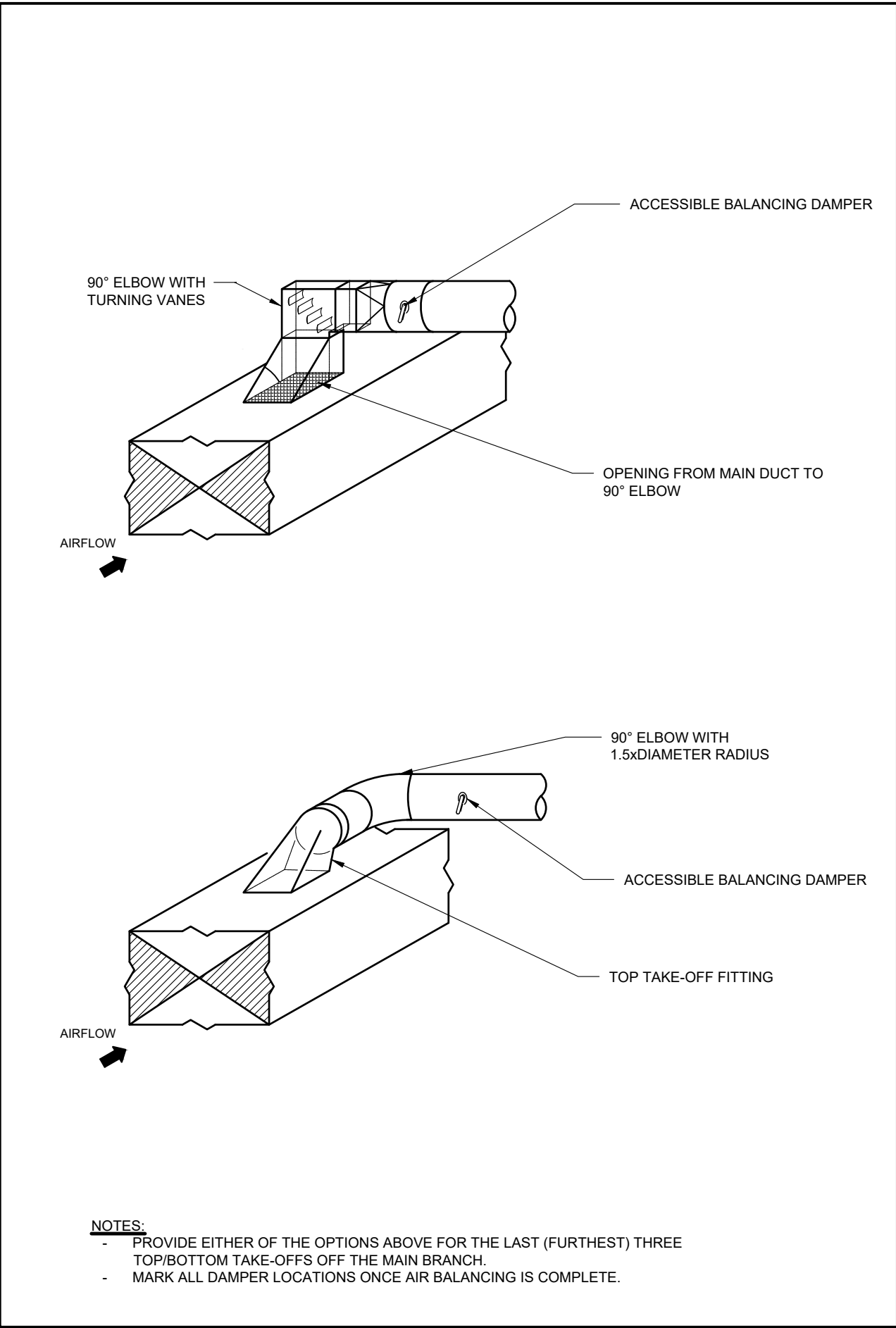
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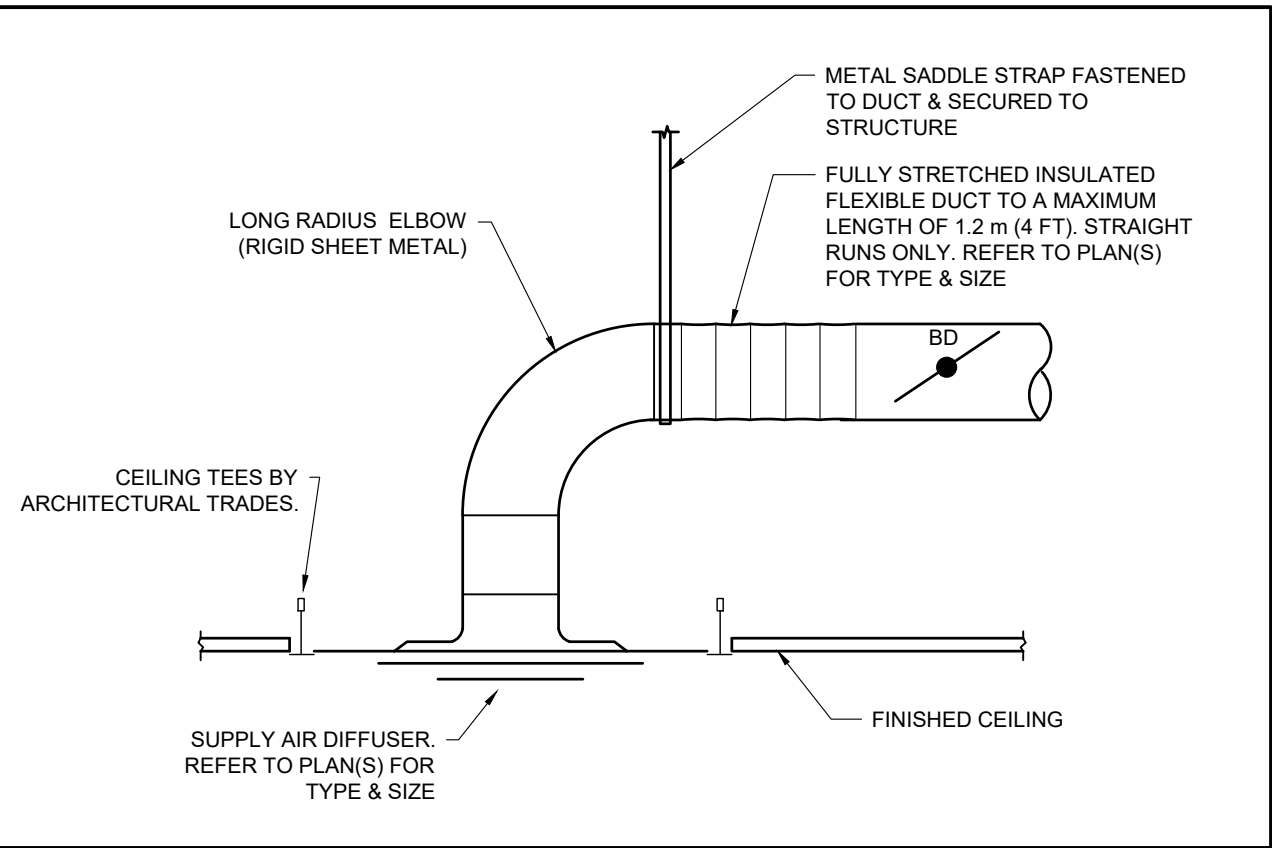
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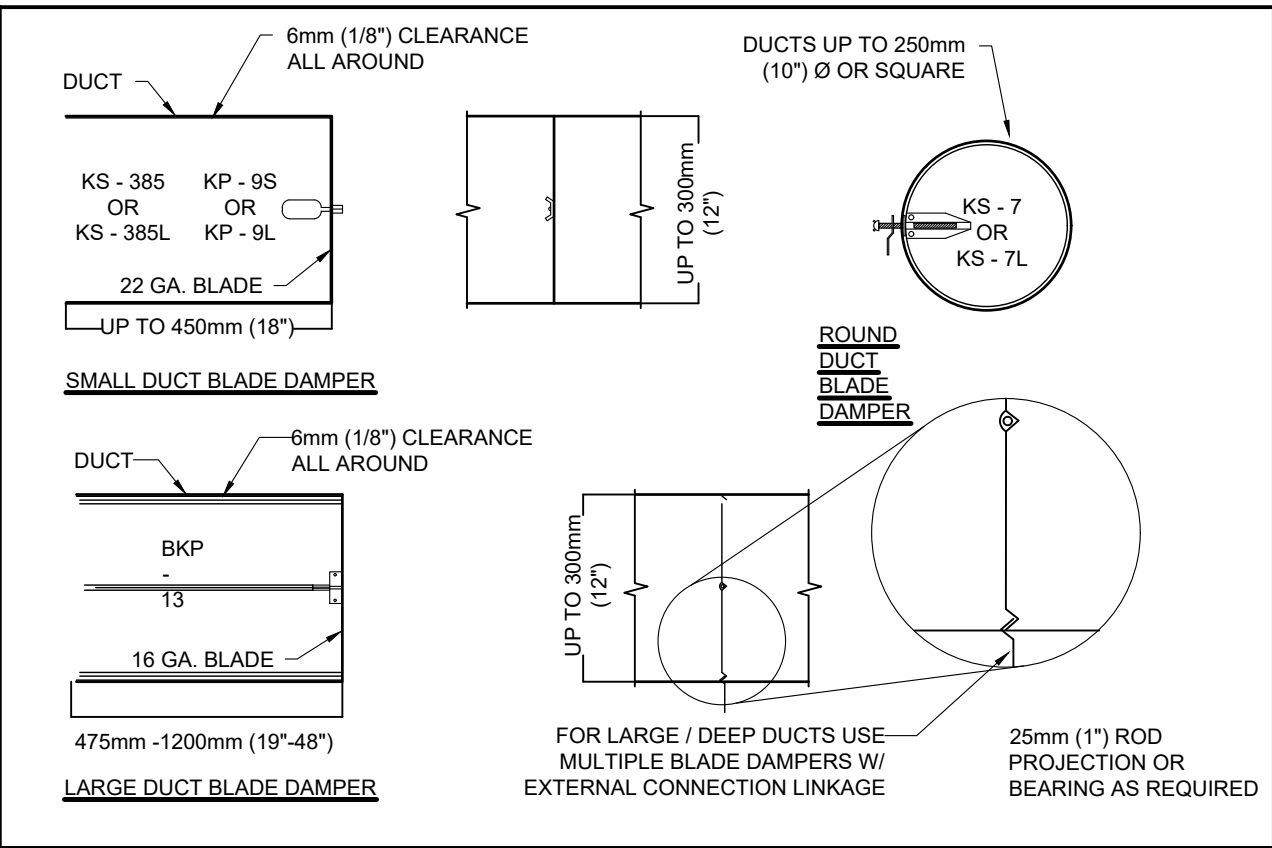
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TYPICAL / ACCEPTABLE SIDE BRANCH TAKE-OFFS



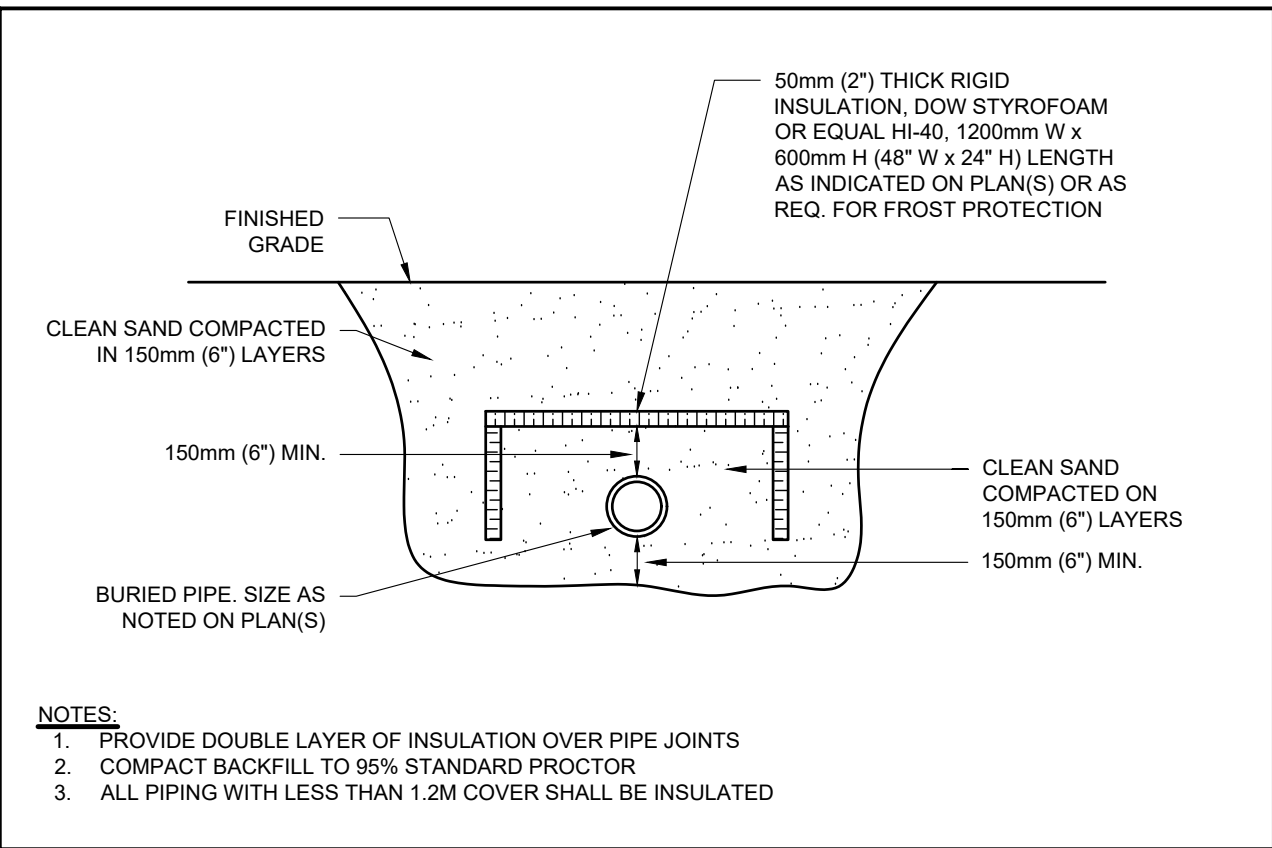
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TYPICAL / ACCEPTABLE TOP OR BOTTOM BRANCH TAKE-OFF



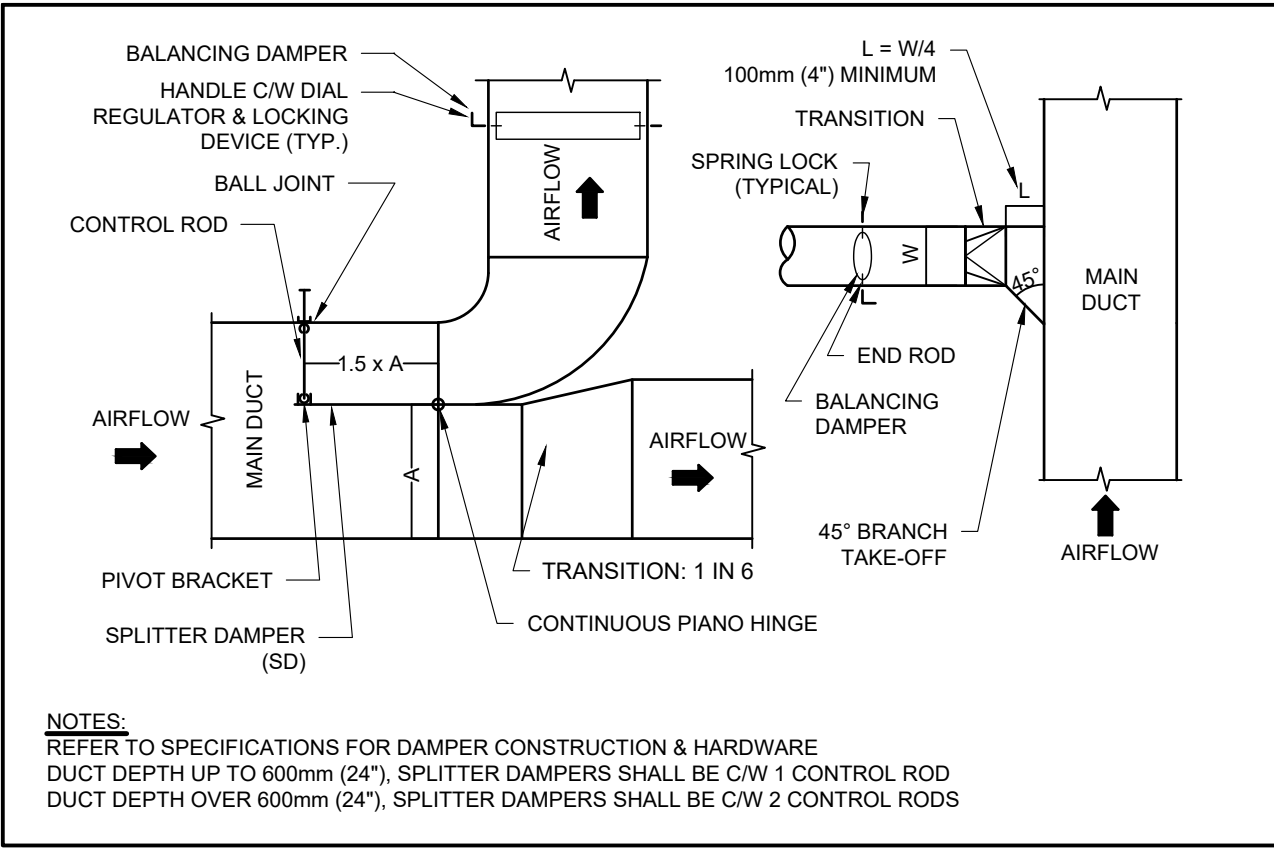
DETAIL
TRANSFER AIR DUCT



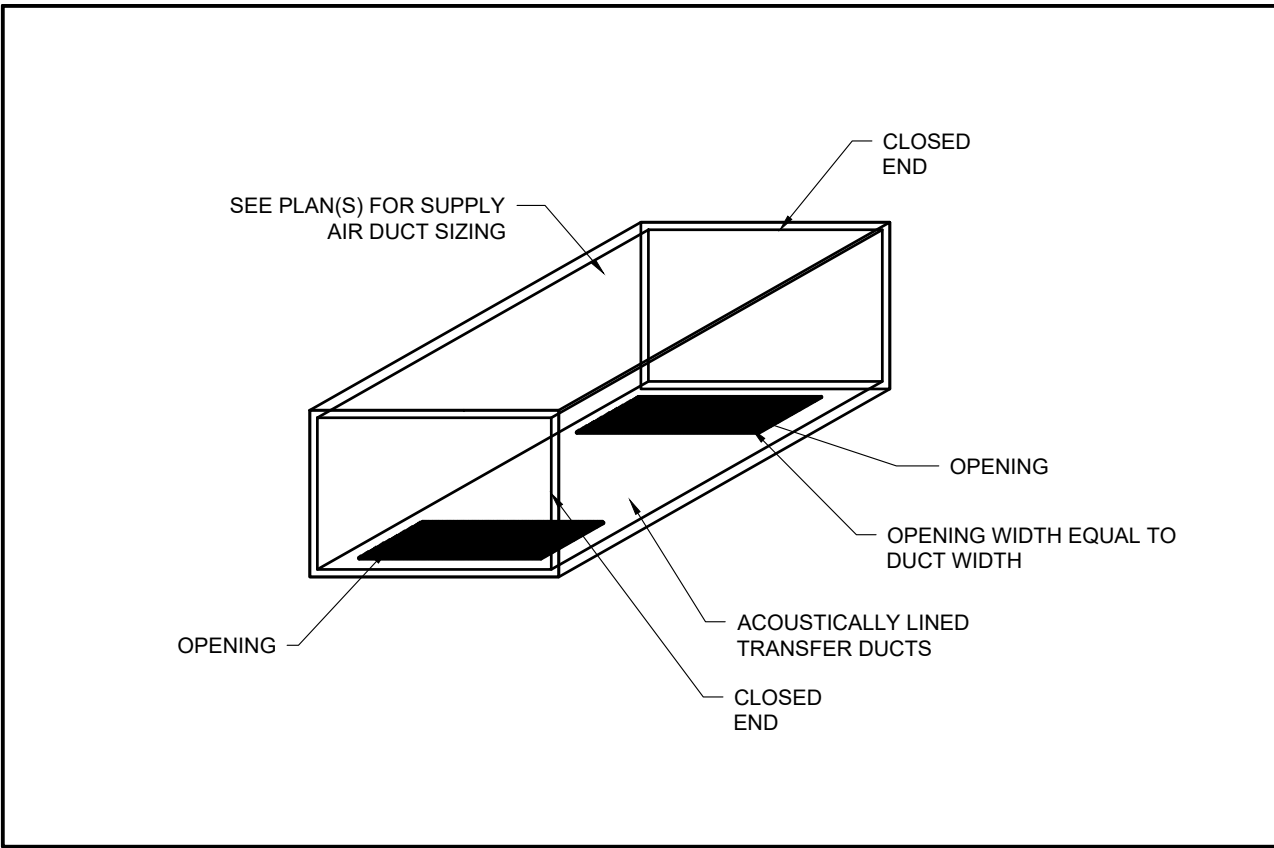
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TRANSFER AIR DUCT



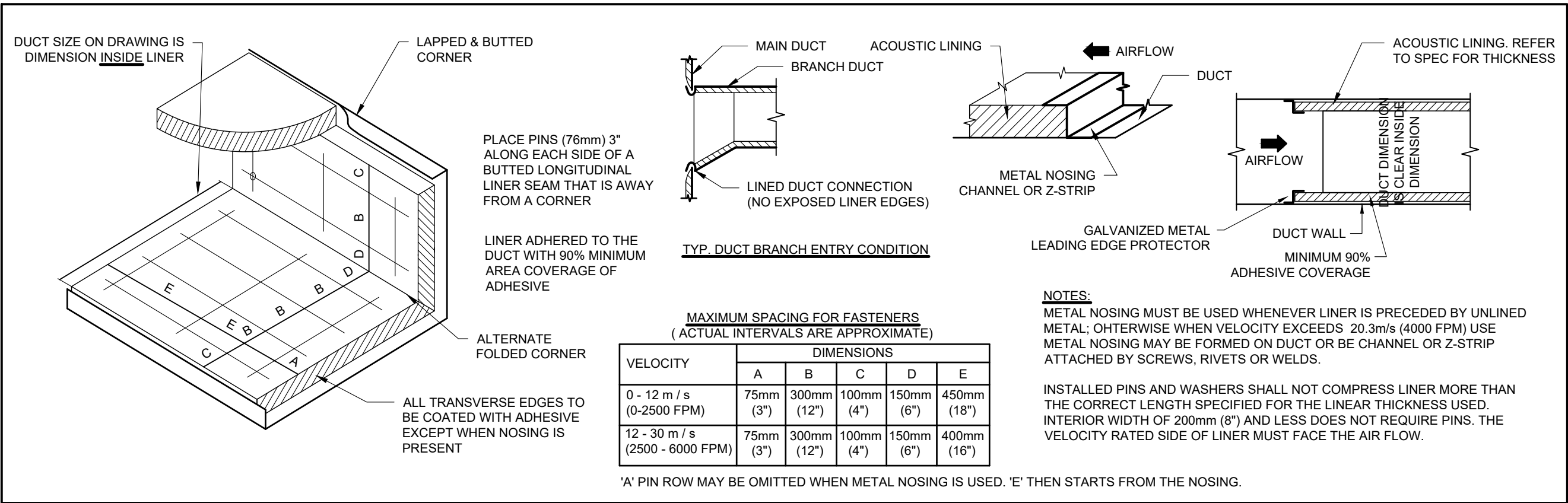
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FROST PROTECTION PIPE INSULATION



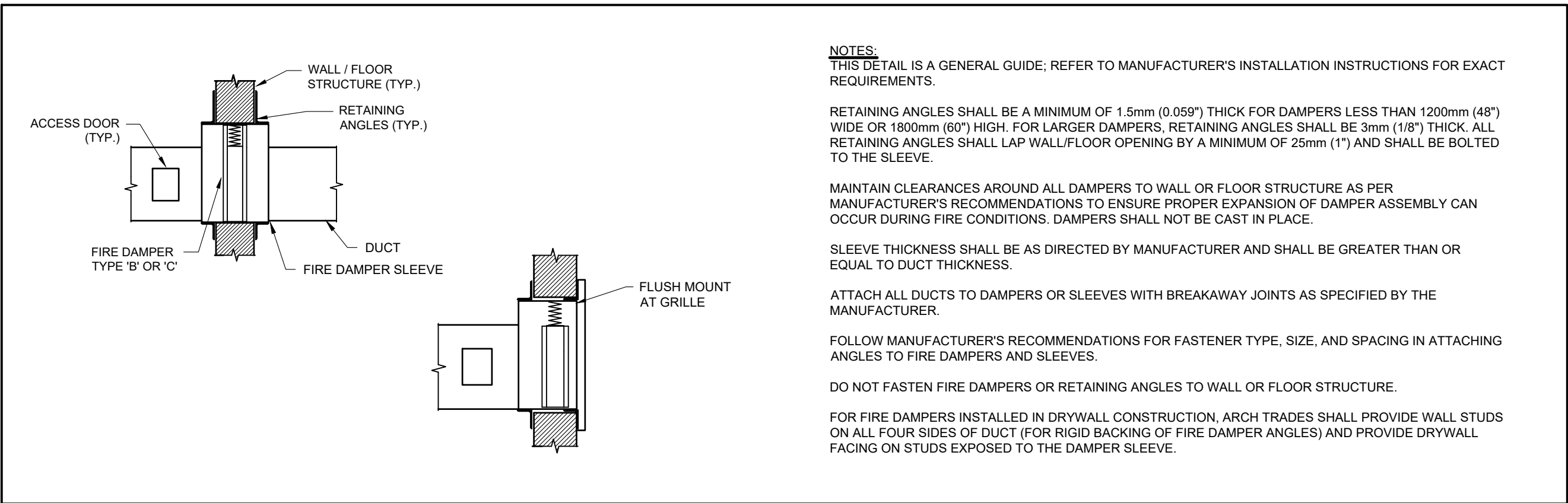
DETAIL
TYPICAL DUCT CONNECTIONS, SPLITTER DAMPER



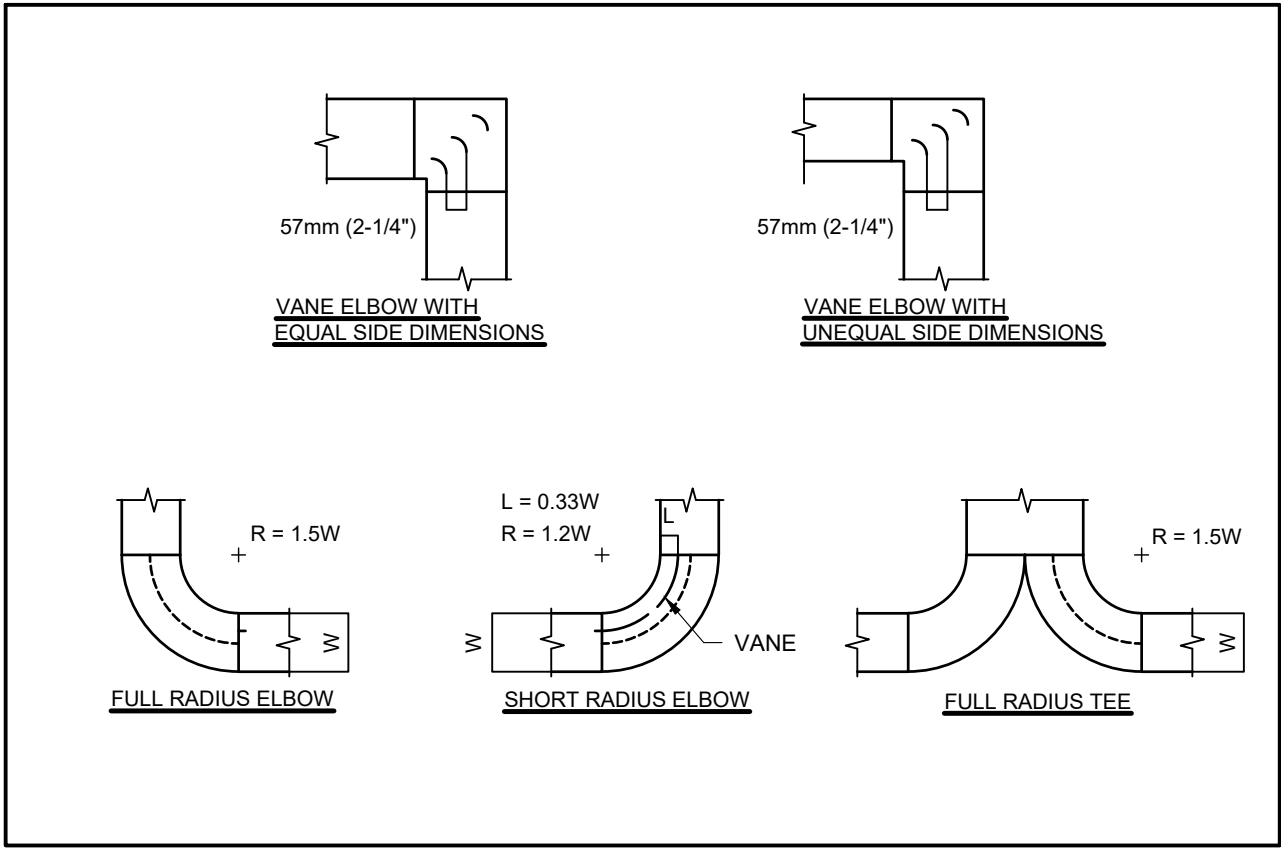
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TRANSFER AIR DUCT



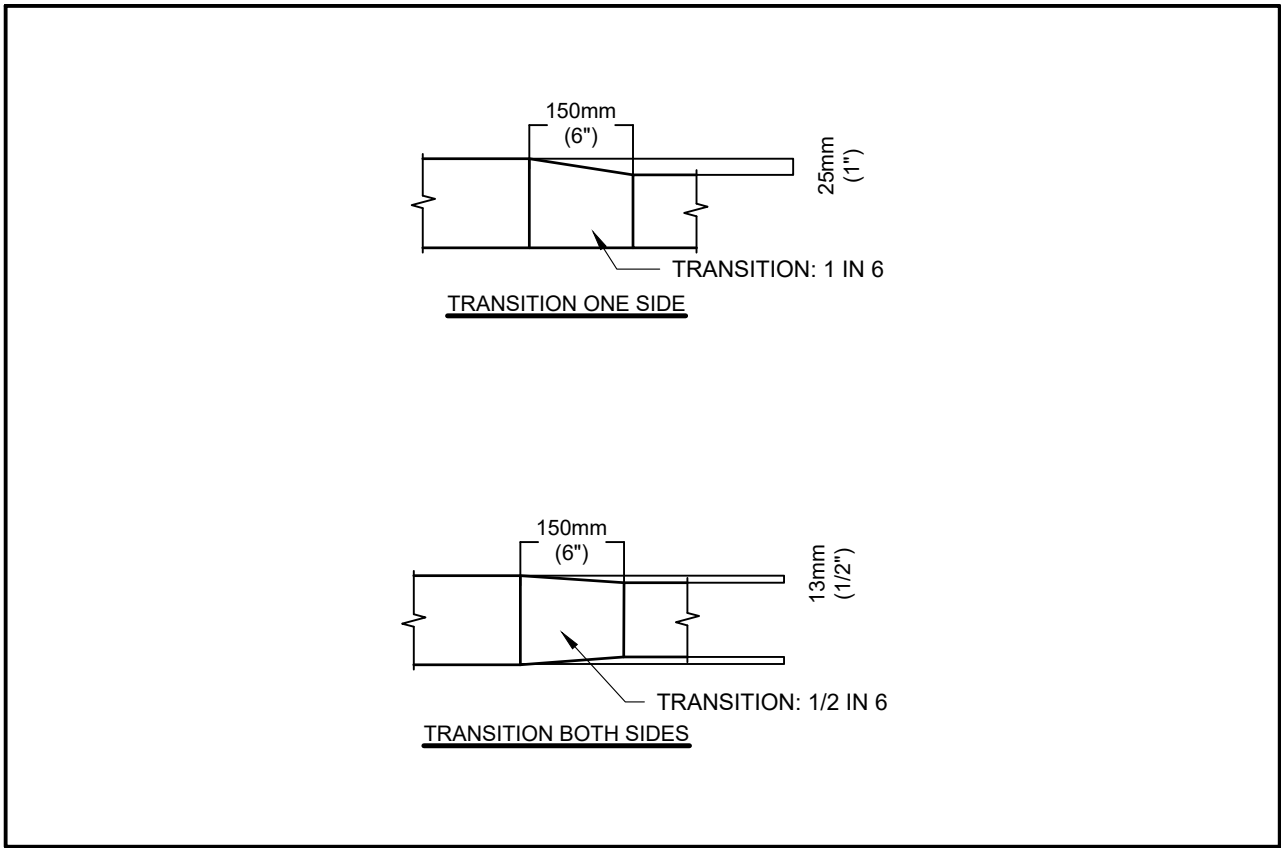
DETAIL
ACOUSTIC DUCT LINER INSTALLATION



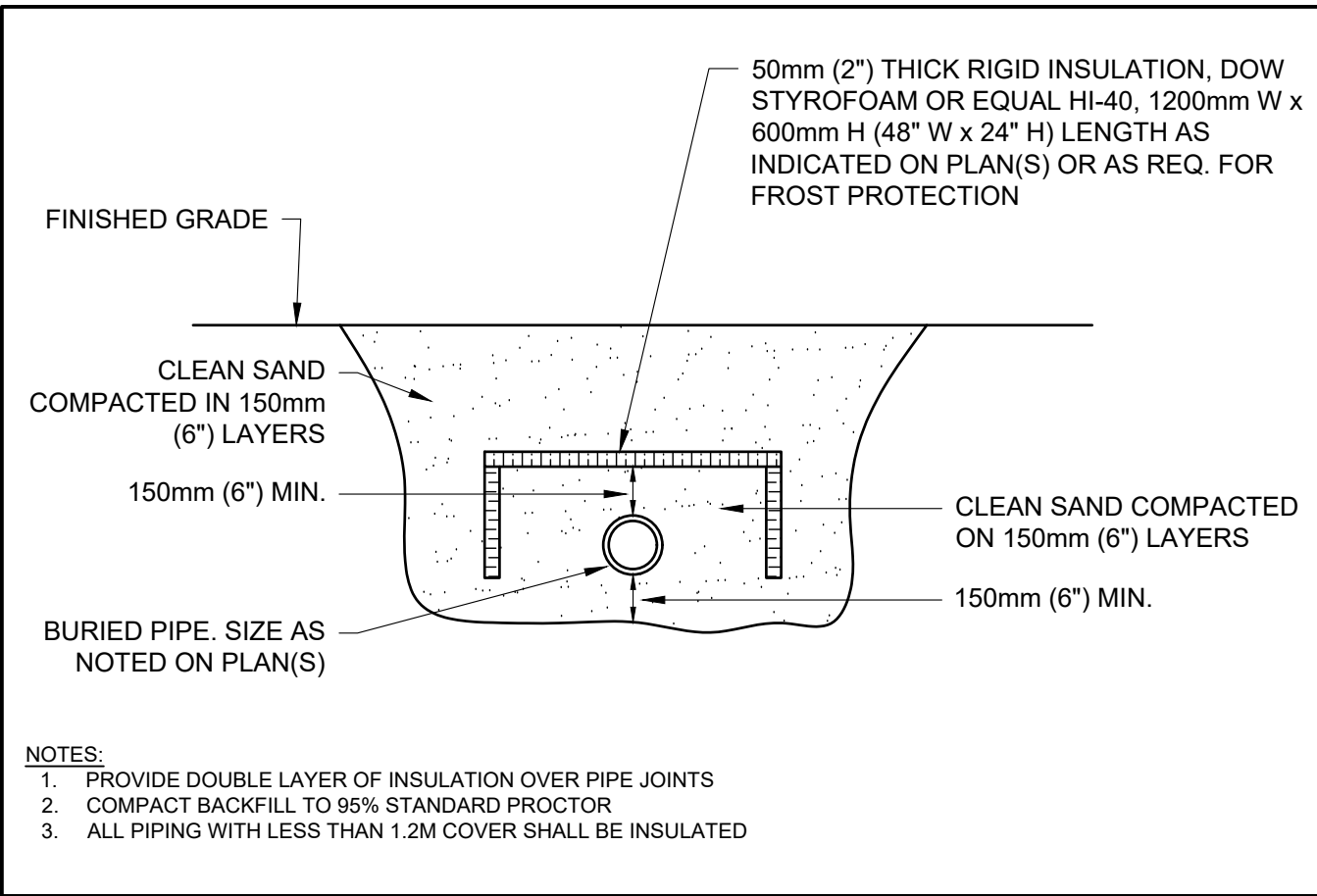
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FIRE DAMPER INSTALLATION



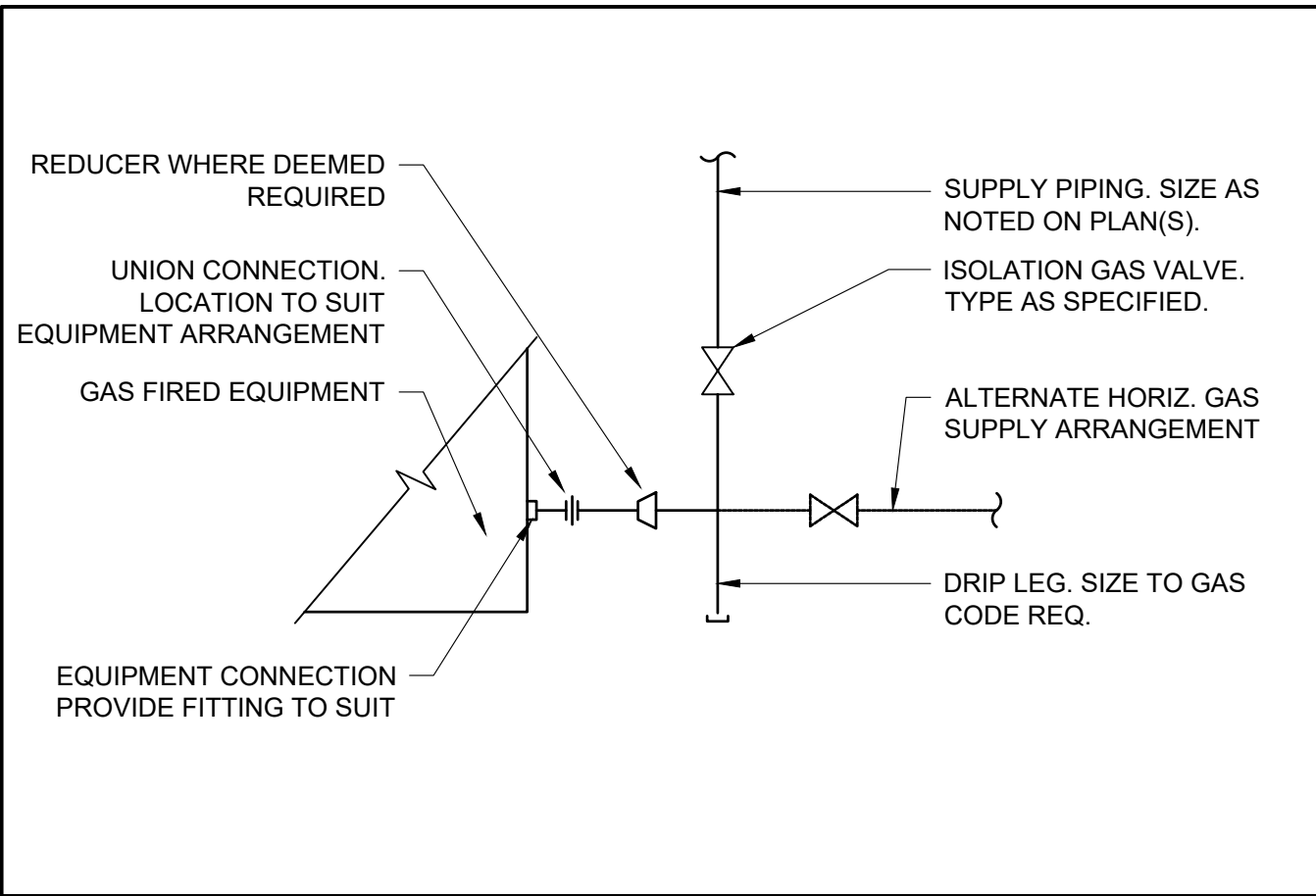
DETAIL
DUCT ELBOWS



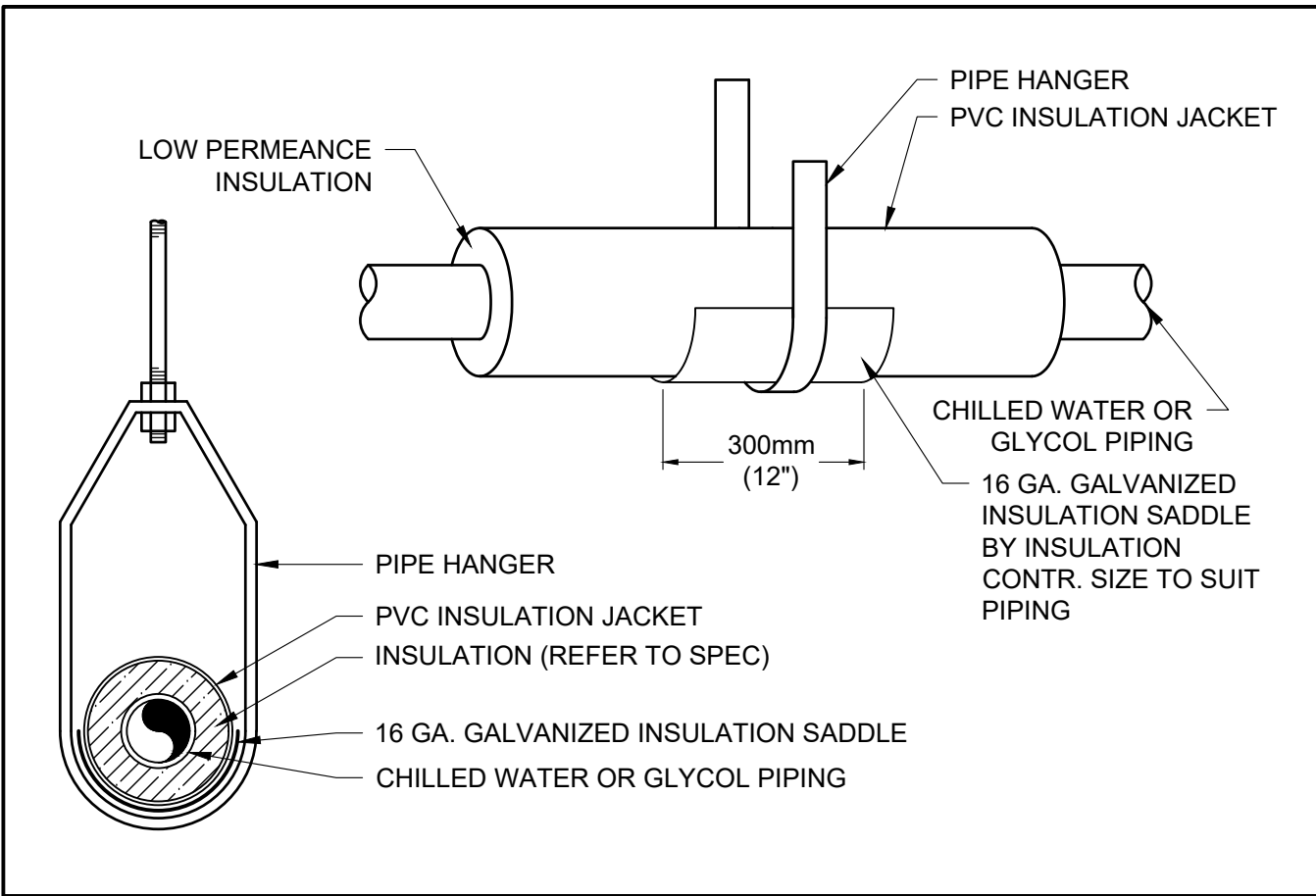
DETAIL
DUCT TRANSITIONS



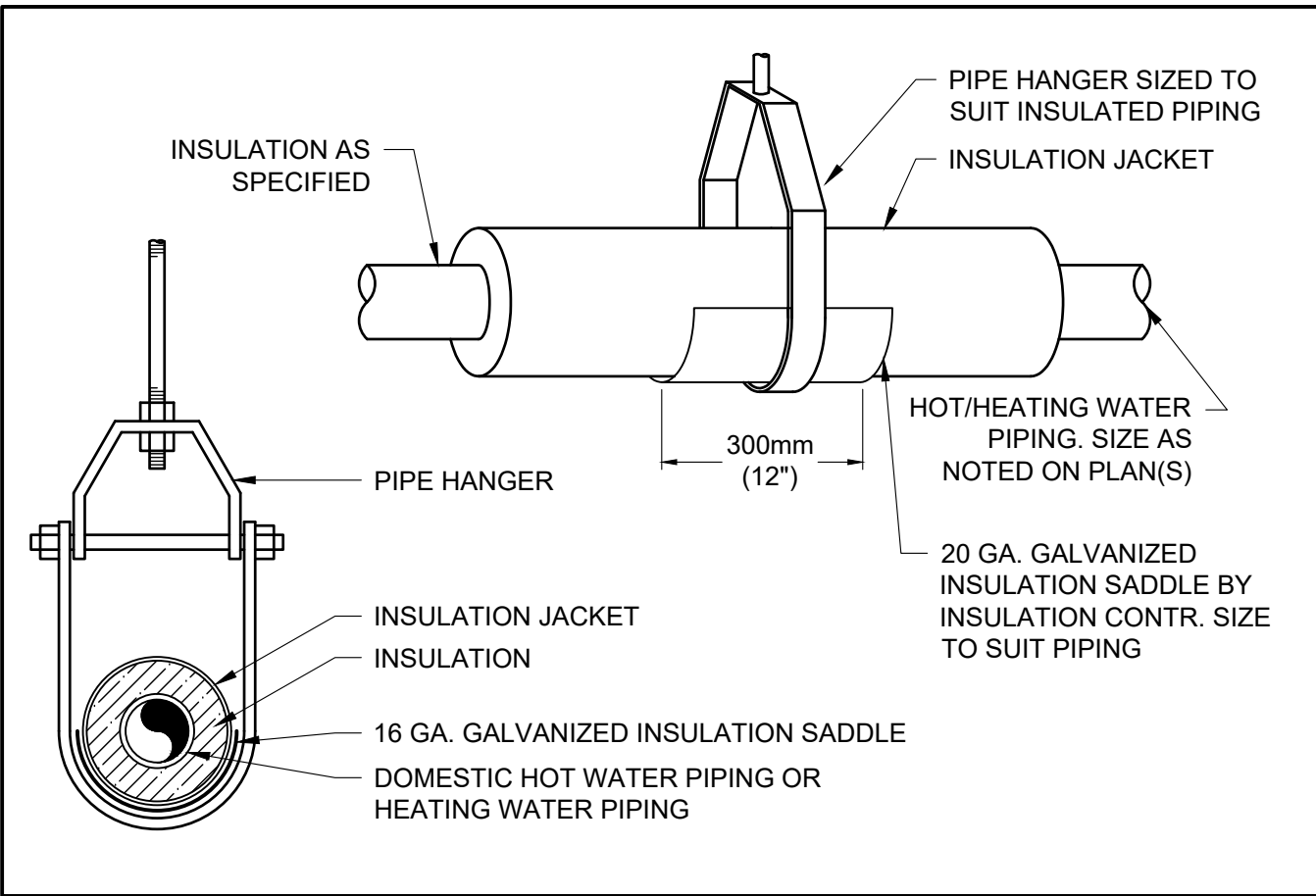
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FROST PROTECTION PIPE INSULATION NTS



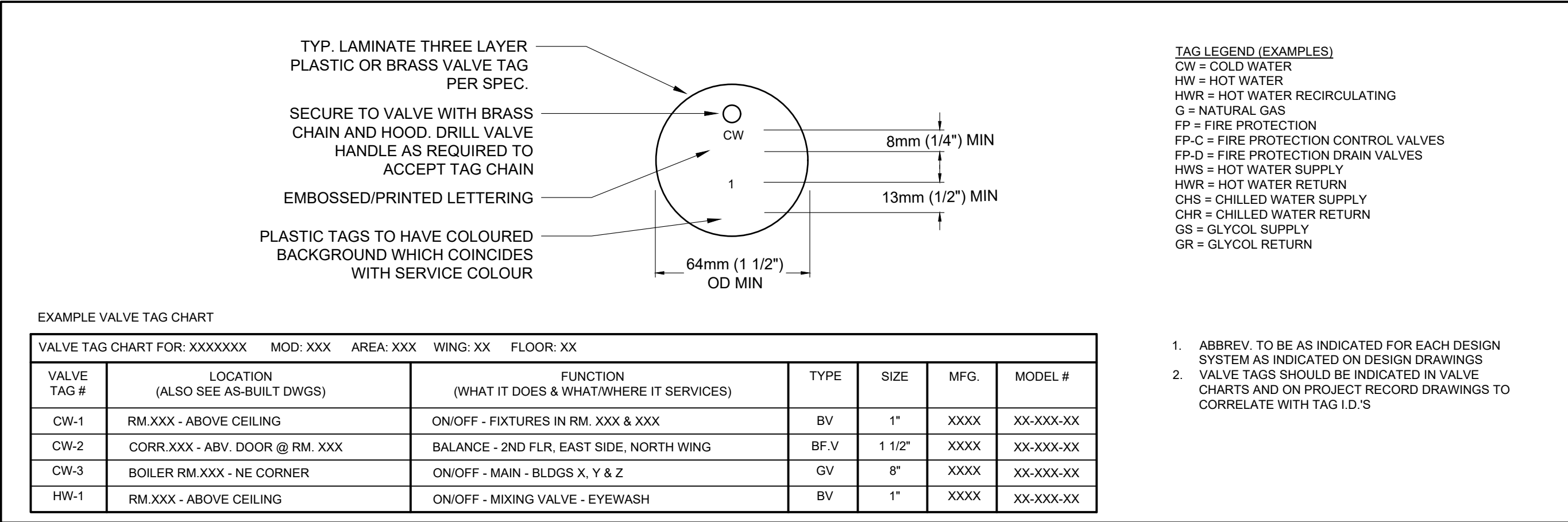
DETAIL
GAS CONNECTION (TYP.) NTS



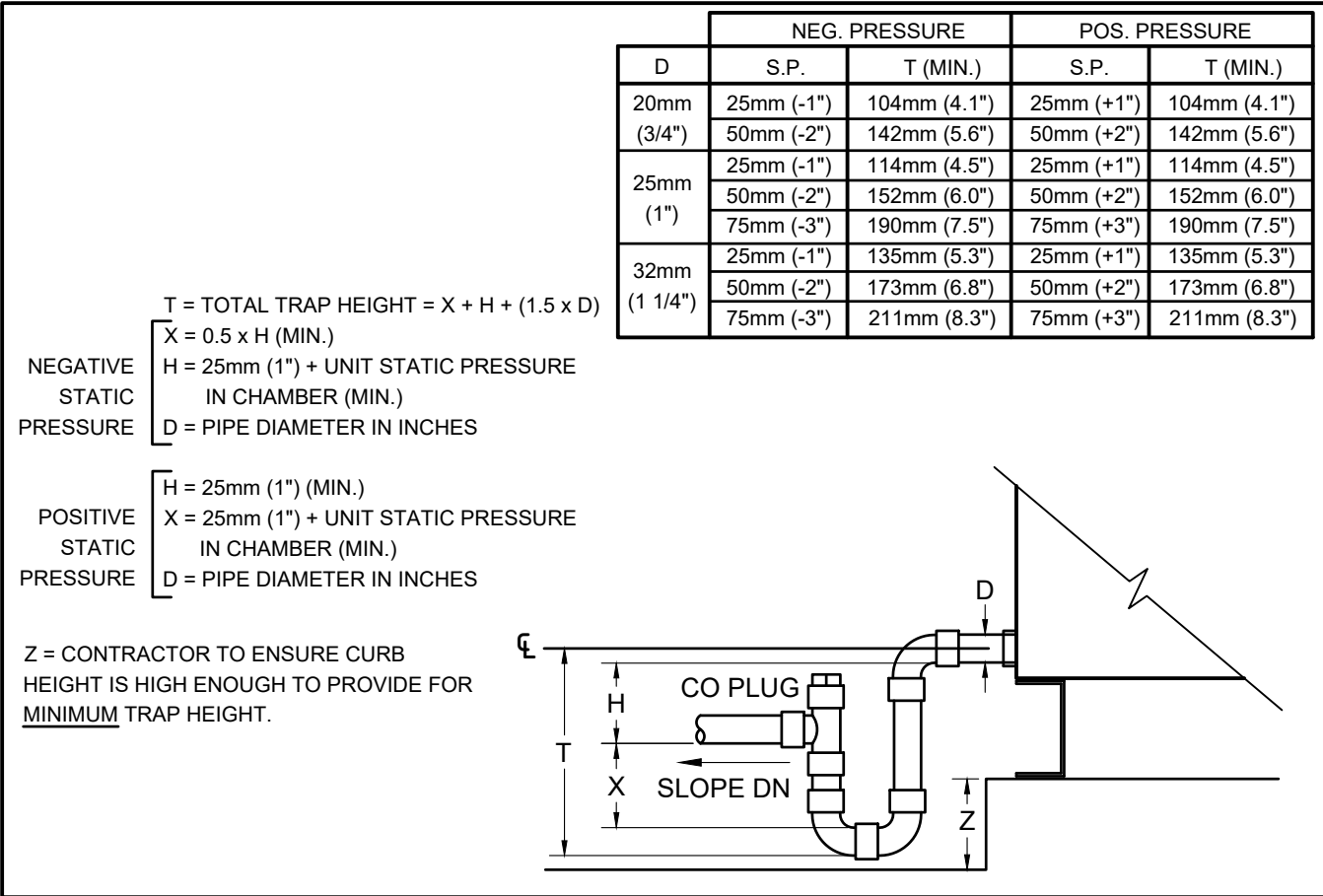
DETAIL
CHILLED WATER/GLYCOL PIPE HANGER INSTALLATION (TYP.) NTS



DETAIL
DHW OR HEATING WATER PIPE HANGER INSTALLATION (TYP.) NTS



DETAIL
VALVE TAG & VALVE CHART FORMAT NTS



DETAIL
AIR HANDLING UNIT CONDENSATE DRAINS NTS

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RFTC-604-22-10
53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

CLIENT

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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER
16 FEB 2023
A.C. WIEBE
100156822
PROVINCE OF ONTARIO

DWG TITLE
DETAILS

ORIENTATION

TRUE NORTH CONSTRUCTION NORTH

DATE
2020-06-10

SCALE
As indicated

DWG STATUS
DESIGN

PROJECT No.
TBA2002

DRAWING No.
M6.1

REVISION

JACOB KEFFER PARAMEDIC STATION

DIAGRAM	SYMBOL	LEGEND
DISPLAY	DESCRIPTION	
---#---	POWER WIRE	
---	CONTROL WIRE	
-----	REF. PIPE / WATER PIPE	
---	POWER SIGNAL WIRE	

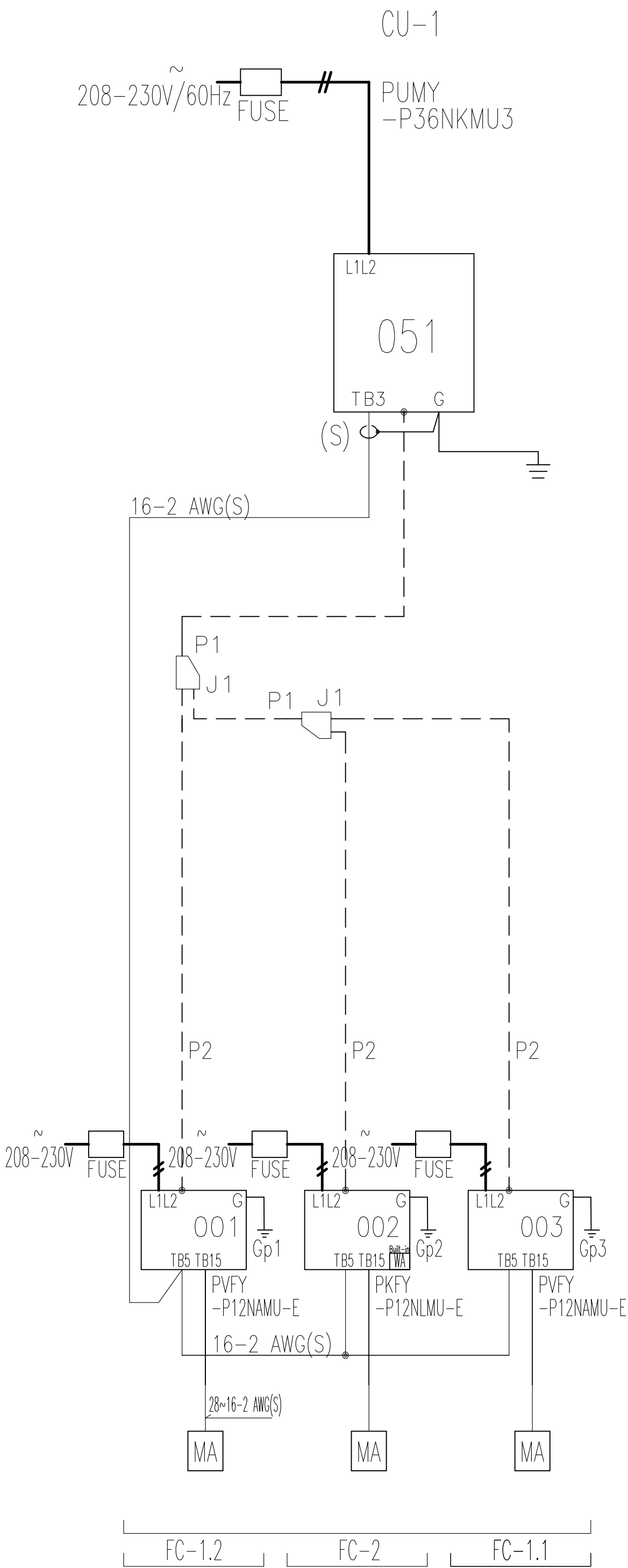
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The symbol of replace judgment	
Symbol	Definition
#1	Standard
#2	Usable (Unit performance will be affected.)
#3	Usable (Refrigerant charge will be limited.)
#4	Usable (Piping length will be limited.)
#5	Piping length and vertical separation will be limited

PIPING LIST	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-Y62-G-E
SYMBOL LIQUID PIPE/GAS PIPE SIZE	
P1	3/8 / 5/8
P2	1/4 / 1/2

CITY MULTI
SYSTEM SCHEMATIC DWG.

Appropriate Circuit Protection Device in accordance with local government regulations are mandatory required such as GFI(Inverter type) and WB etc.
Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm² (16 AWG) : 1.25mm² (16 AWG) or more. 1.25mm² (16 AWG) : 1.25mm² (16 AWG) or more.



REMARKS PVFY units are manufactured by Mortex, and can be connected to VRFZ.

MITSUBISHI ELECTRIC
CORPORATION
PREPARED ON 2021/09/13

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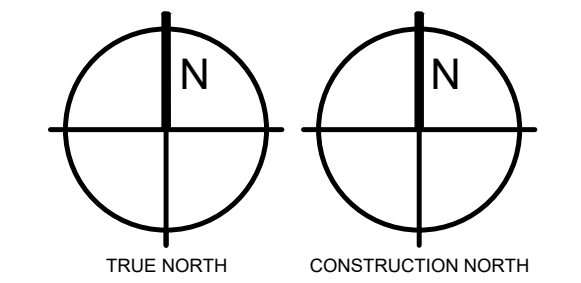
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DWG TITLE

**REFRIGERANT
PIPING SCHEMATIC**

ORIENTATION



DATE

2020-06-10

SCALE

As indicated

DWG STATUS

DESIGN

PROJECT No.

TBA2002

DRAWING No.

M7.1

REVISION

SPRINKLER HEAD USAGE SCHEDULE		
HEAD TYPE	AREA SERVED	REMARKS
UPRIGHT BRASS	MECHANICAL ROOMS, ELECTRICAL ROOMS, UNFINISHED STORAGE ROOMS	PROVIDE GUARDS WHERE REQUIRED
SEMI-RECESSED PENDENT - WHITE	OFFICES, LOBBIES, LOUNGE	
FULLY RECESSED PENDENT WITH WHITE FACE PLATE	WASHROOMS, FINISHED CORRIDORS	
FULLY RECESSED PENDENT WITH CUSTOM COLOUR FACE PLATE	WOOD CEILINGS	CUSTOM COLOUR FOR FACE PLATES TO BE DETERMINED BY ARCHITECT
DRY TYPE	WHERE INDICATED ON PLANS	
SIDE WALL	ELEVATOR SHAFTS	

SPRINKLER HEAD USAGE SCHEDULE			
TAG	OCCUPANCY CLASSIFICATION	AREAS SERVED	SYSTEM DESCRIPTION
1	LIGHT HAZARD 0.10 GPM/SQ FT OVER 1500 SQ FT	KITCHEN AREA, WASHROOMS, CREW LOUNGE, LOCKER ROOM, WRITE-UP ROOM, VESTIBULE	HYDRAULICALLY CALCULATE AUTOMATIC DRY PIPE SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.07 LPS/SM (0.1 USGPM/SF) OVER THE HYDRAULICALLY MOST REMOTE 140 SM (1,500 SF) UTILIZING 155°F, 1/2" ORIFICE, QUICK RESPONSE, SPACED AT A MAXIMUM OF 225 SF EACH. PROVIDE ATTIC COVERAGE (EXCEPT CAF & VIP)
2	ORDINARY HAZARD GROUP 1 0.15 GPM/SQ FT OVER 1500 SQ FT	MECHANICAL EQUIPMENT ROOMS, ELECTRICAL ROOMS, I.T. ROOMS, MEDICAL STORAGE ROOMS	HYDRAULICALLY CALCULATE AUTOMATIC DRY PIPE SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.1 LPS/SM (0.15 USGPM/SF) OVER THE HYDRAULICALLY MOST REMOTE 140 SM (1,500 SF) UTILIZING 165°F, 1/2" ORIFICE, QUICK RESPONSE, SPACED AT A MAXIMUM OF 130 SF EACH. PROVIDE ATTIC COVERAGE ABOVE KITCHEN.
3	ORDINARY HAZARD GROUP 1 0.15 GPM/SQ FT OVER 2500 SQ FT	VEHICLE BAY	
4	EXTRA HAZARD GROUP 1	N/A	

NOTES:

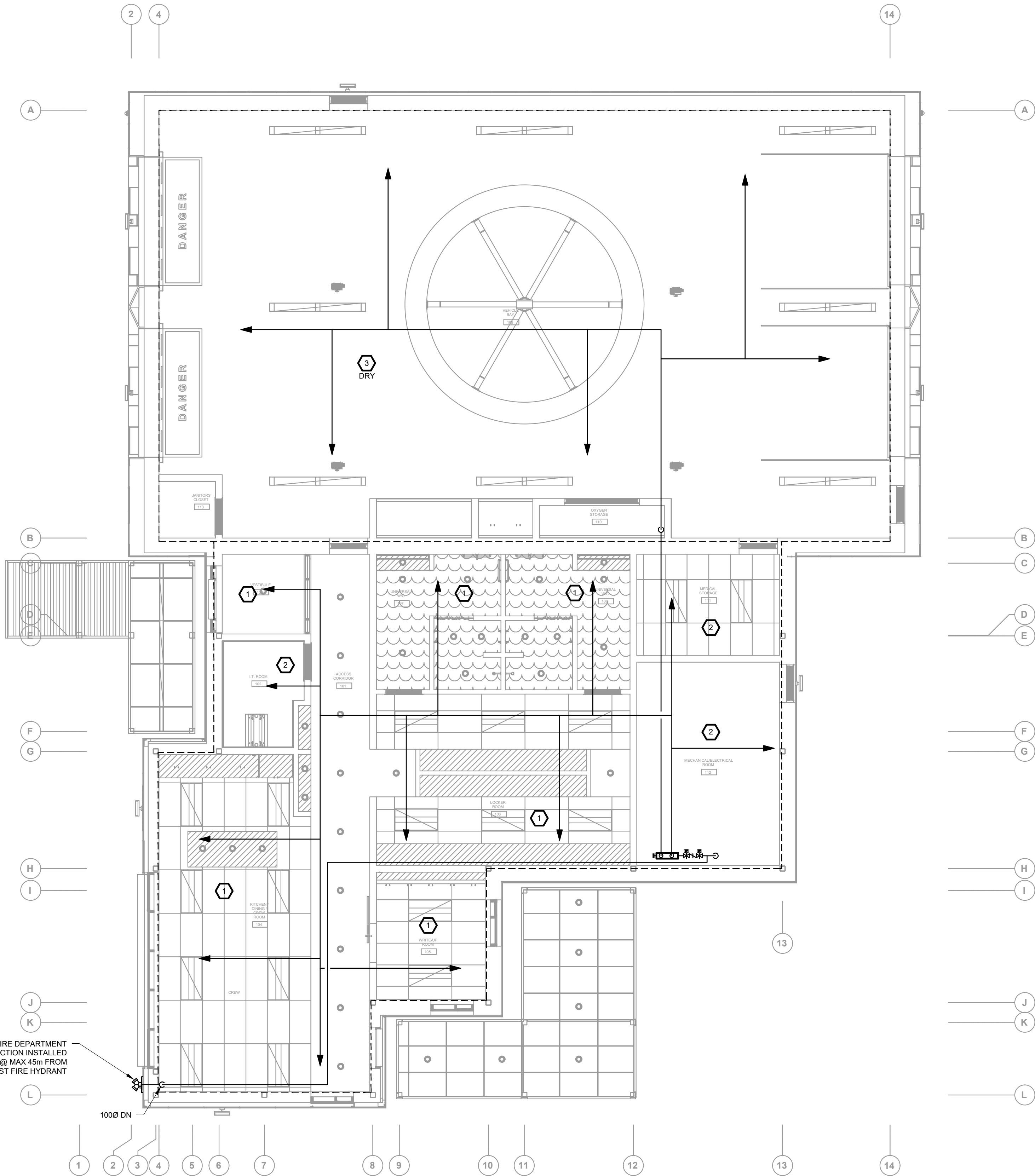
- AUTOMATIC SPRINKLERS SHALL BE HIGHER TEMPERATURE WHERE DEFINED BY LATEST NFPA 13.
- WHERE DUCTWORK SYSTEM IS INSTALLED 300mm (12") OR LESS FROM THE DECK, CONTRACTOR SHALL INSTALL THE SPRINKLER HEADS UNDERNEATH THE DUCT ONLY.
- HOSE ALLOWANCE SHALL BE INCLUDED IN SPRINKLER HYDRAULIC CALCULATIONS AS FOLLOWS:
 - ADDITIONAL 100 GPM SHALL BE ADDED FOR LIGHT HAZARD CALCULATIONS.
 - ADDITIONAL 250 GPM SHALL BE ADDED FOR ORDINARY HAZARD CONDITIONS.
- MINIMUM PRESSURE AT END SPRINKLER HEAD SHALL BE AS REQUIRED TO SATISFY FLOW, IN NO CASE SHALL IT BE LESS THAN 7.5 P.S.I.G.
- HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO HYDRANT FLOW TEST WATER SUPPLY LOCATION.
- AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13.
- CONTRACTOR SHALL ORDER HYDRANT FLOW TEST AND BASE ALL HYDRAULIC CALCULATIONS ON TEST RESULTS.
 - HYDRANT TEST SHALL BE LOCATED AS CLOSE AS POSSIBLE TO POINT OF FIRE SERVICE CONNECTION TO CITY MAIN.
 - TEST DATA SHALL INDICATE STATIC PRESSURE, RESIDUAL PRESSURE AT TEST FLOW AND GRADE ELEVATION AT HYDRANT TESTED.
 - HYDRANT TEST DATE SHALL BE SUBMITTED FOR REVIEW ALONG WITH SIGNED AND SEALED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
- COORDINATE SPRINKLER ARRANGEMENT, TYPE, TEMPERATURE RATING, FINISH, ETC. AND ADJUST TO SUIT LOCAL AUTHORITY REQUIREMENTS AND CONSULTANT'S DIRECTIONS WHILE MAINTAINING COMPLIANCE W/OBC & NFPA.

SUBMITTAL NOTES:

- SPRINKLER WORK SHALL BE HYDRAULICALLY SIZED BY A PROFESSIONAL ENGINEER, BASED ON THE PROCEDURES OF NFPA 13. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WATER FLOW TEST AND PRESSURE DATA. SUBMIT FLOW TEST DATA AND CALCULATIONS USED, WITH SHOP DRAWINGS. CALCULATIONS USED FOR HYDRAULICALLY SIZED SYSTEMS SHALL BEAR THE PROFESSIONAL ENGINEER'S SIGNED STAMP.
- COMPLETE DIMENSIONED SYSTEM LAYOUT DRAWINGS INDICATING ALL HEADS AND EQUIPMENT, PIPE SIZING AND ALL CALCULATIONS AND DESIGN DATA USED IN PREPARING THE LAYOUTS AND SIZING THE PIPING SHALL BE SUBMITTED AS SHOP DRAWINGS.
- THIS BUILDING IS CLASSIFIED AS A POST-DISASTER BUILDING. INCLUDE FOR SEISMIC RESTRAINT DEVICES AS REQUIRED OF FIRE PROTECTION SYSTEM THROUGH CONSULTATION WITH SEISMIC ENGINEER.
- SHOP DRAWINGS MUST BE FIRST SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNING AUTHORITIES PRIOR TO BEING SUBMITTED TO THE CONSULTANT FOR REVIEW.

GENERAL NOTES FOR SPRINKLER SYSTEMS:

- THE INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO SHOW CRUCIAL INFORMATION REQUIRED FOR THE DESIGN OF THE SPRINKLER SYSTEM. THE LAYOUTS ARE NOT INTENDED TO BE USED AS WORKING DRAWINGS AND SHALL ONLY BE USED TO ASSIST THE SPRINKLER CONTRACTOR IN THE PREPARATION OF WORKING DRAWINGS. THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF WORKING SPRINKLER SYSTEM IN COMPLIANCE WITH ALL CODE, LOCAL AUTHORITY AND UNDERWRITER'S REQUIREMENTS RESTS WITH THE SPRINKLER CONTRACTOR AND SHALL BE PROVIDED COMPLETE TO THE FULL SATISFACTION OF THE CONSULTANT. THE INDICATED SPRINKLER COVERAGE IS TO BE USED AS A GUIDE AND SHALL BE REVISED AS REQUIRED TO SUIT THE FINAL SYSTEM DESIGN. PIPING ROUTING IS FOR GUIDANCE ONLY. THE FINAL ROUTINGS, SIZES AND HEAD LOCATIONS SHALL BE ESTABLISHED BY THE SPRINKLER CONTRACTOR.
- THE COMPLETE SYSTEMS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF NFPA 13, FIRE CODE, FIRE MARSHAL, LOCAL AUTHORITY REQUIREMENTS AND THE ONTARIO BUILDING CODE. THIS CONTRACTOR SHALL INVESTIGATE AND DETERMINE ALL COMPLIANCE ISSUES PRIOR TO SUBMISSION OF TENDER AND CARRY ALL COST ASSOCIATED WITH ANY AND ALL ADDITIONAL REQUIREMENTS AS DEEMED NECESSARY BY THE ABOVE STANDARDS AND/OR AUTHORITIES. SPRINKLER INSTALLATION SHALL BE APPROVED BY THE FIRE DEPARTMENT AND IN ACCORDANCE WITH NFPA 13.
- SITE SERVICES CONTRACTOR SHALL HYDROSTATICALLY TEST ALL NEW FIRE SERVICE MAINS UP TO THE BUILDING AT NOT LESS THAN 200 PSI (1378 KPA) PRESSURE FOR 2 HRS OR AT 50 PSI (345 KPA) IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHERE SAME IS IN EXCESS OF 150 PSI (1034 KPA). SUBMIT ASSOCIATED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING AS PER THE REQUIREMENTS OF NFPA 20.
- SPRINKLER PIPE & HEAD LOCATIONS:
 - CO-ORDINATE ALL SERVICES WITH EACH DIVISION BEFORE INSTALLATION OF PIPES, HEADS, ETC. ROUTE SERVICES ON SITE TO CLEAR DUCTWORK, BUILDING STRUCTURE, ETC.
 - KEEP SPRINKLER MAINS WITHIN CORRIDORS WHERE POSSIBLE.
 - SPRINKLER PIPING SHALL BE INSTALLED SO AS TO MAINTAIN MAXIMUM CLEAR HEADROOM THROUGHOUT & CONTAINED WITHIN ALL CEILING SPACES. WHERE SPRINKLER HEADS AND PIPING IS REQUIRED TO BE EXPOSED, REVIEW PROPOSED LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
 - WHERE APPLICABLE, SPRINKLER HEADS SHALL BE CENTERED BOTH WAYS IN CEILING TILES. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
 - CONTRACTOR SHALL REVIEW ALL DRAWINGS OF MECHANICAL ROOMS, FAN ROOMS, ELECTRICAL ROOMS, ETC. AND ALLOW FOR ADDITIONAL SPRINKLER HEADS AS REQUIRED TO SUIT DUCTWORK AND EQUIPMENT OBSTRUCTIONS ETC.
- FIRE SEPARATIONS:
 - READ MECHANICAL DWGS IN CONJUNCTION, VERIFY AND COMPLY WITH, ALL REQUIREMENTS PERTAINING TO FIRE SEPARATIONS AS OUTLINED IN THE ARCHITECTURAL / STRUCTURAL PLANS AND SPECIFICATION.
 - MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATIONS, INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, OR SIMILAR) AND THOSE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING, (ZERO-RATED, NON-RATED OR SIMILAR), SHALL BE TIGHTLY FITTED & CAULKED TO CONTROL SMOKE SPREAD IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS AND TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
 - MECHANICAL SERVICES, DEVICES &/OR EQUIPMENT PENETRATING FIRE SEPARATIONS, INCLUDING THOSE REQUIRED TO HAVE A FIRE RESISTANCE RATING (45 MIN, 1 HR, 2 HR, OR OTHERWISE), SHALL BE PROVIDED W/ APPROVED FIRE STOP DEVICES & METHODS IN COMPLIANCE W/ OBC & ASSOCIATED STANDARDS & TO THE APPROVAL OF LOCAL AUTHORITY(S) HAVING JURISDICTION.
- MATERIALS:
 - SPRINKLER HEADS IN AREAS WITH CEILING LOWER THAN 2400mm SHALL BE UPRIGHT TYPE C/W WIRE GUARDS.
 - ALL SPRINKLER HEADS IN UNFINISHED AREAS SHALL BE UPRIGHT TYPE.
 - EXPOSED SPRINKLER PIPING SHALL BE FERROUS, PLASTIC NOT PERMITTED EXPOSED.
 - PIPING & OTHER MATERIALS INSTALLED WITHIN AIR DUCTS, CEILING RETURN AIR PLENUMS AND DUCT CHASES USED AS AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25 AND 50 RESPECTIVELY. ABS/PPC PIPING, WOOD FRAMING, FT-4CMR WIRING & SIMILAR MATERIALS ARE NOT PERMITTED AND SHALL BE SEPARATED FROM PLENUM BY DRYWALL OR SIMILAR MEANS (TYPICAL).
 - ALL ADDITIONAL VALVED DRAINS ETC. TO BE INCLUDED AS PART OF THE CONTRACT WORK.
 - PROVIDE INSPECTOR'S TEST CONNECTIONS IN ACCORDANCE WITH NFPA 13.
 - ALL CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED AND CONNECTED TO THE FIRE ALARM SYSTEM.
 - ALL WATER FLOW SWITCHES, PRESSURE ALARM SWITCHES AND AIR MONITORING DEVICES SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM.



FIRE PROTECTION PLAN

FIRST FLOOR

1/75

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2	ISSUED FOR TENDER	16 FEB 2023
1	ISSUED FOR PERMIT	26 JAN 2022

PROJECT :
YORK REGION PRS #32
RFTC-604-22-10

53 JACOB KEFFER PARKWAY, CITY OF VAUGHAN

CLIENT



CONSULTANT

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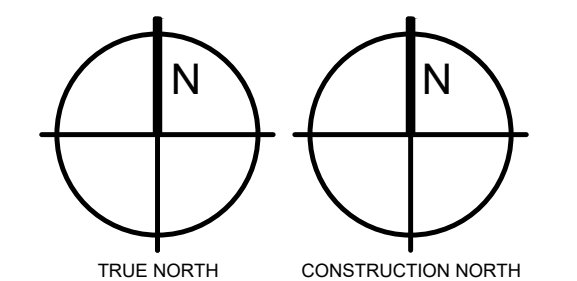
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FIRE PROTECTION

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DATE 2020-06-10

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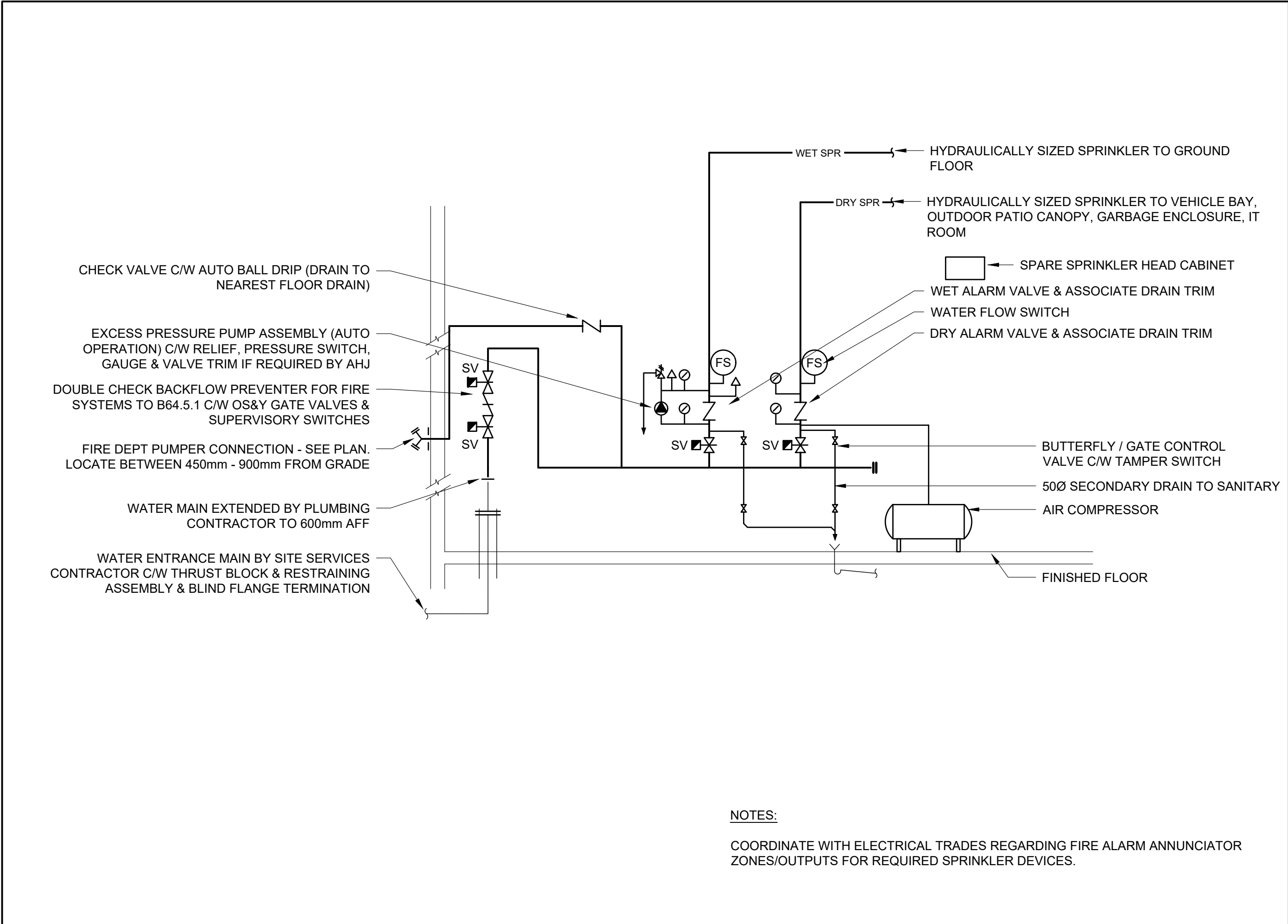
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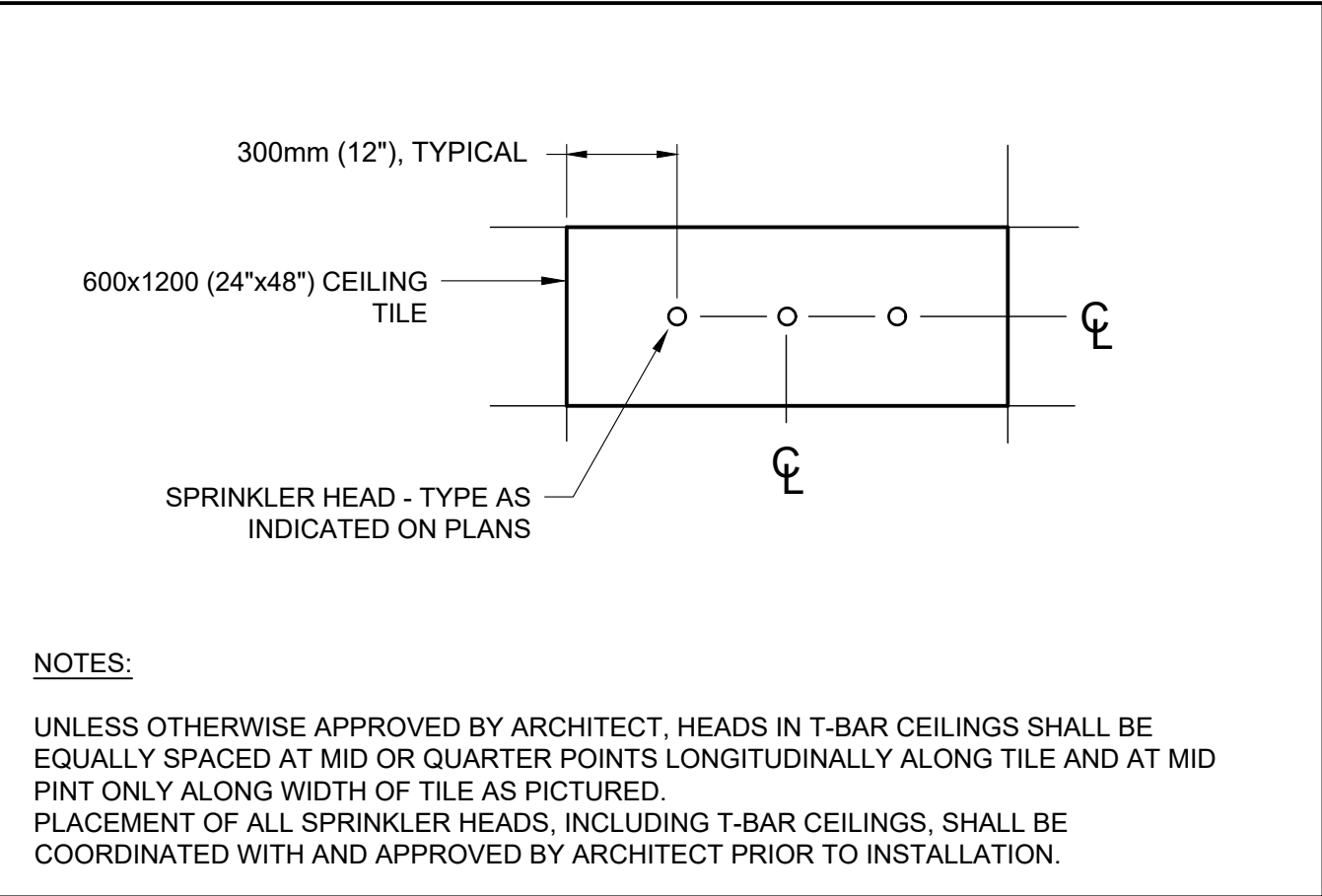
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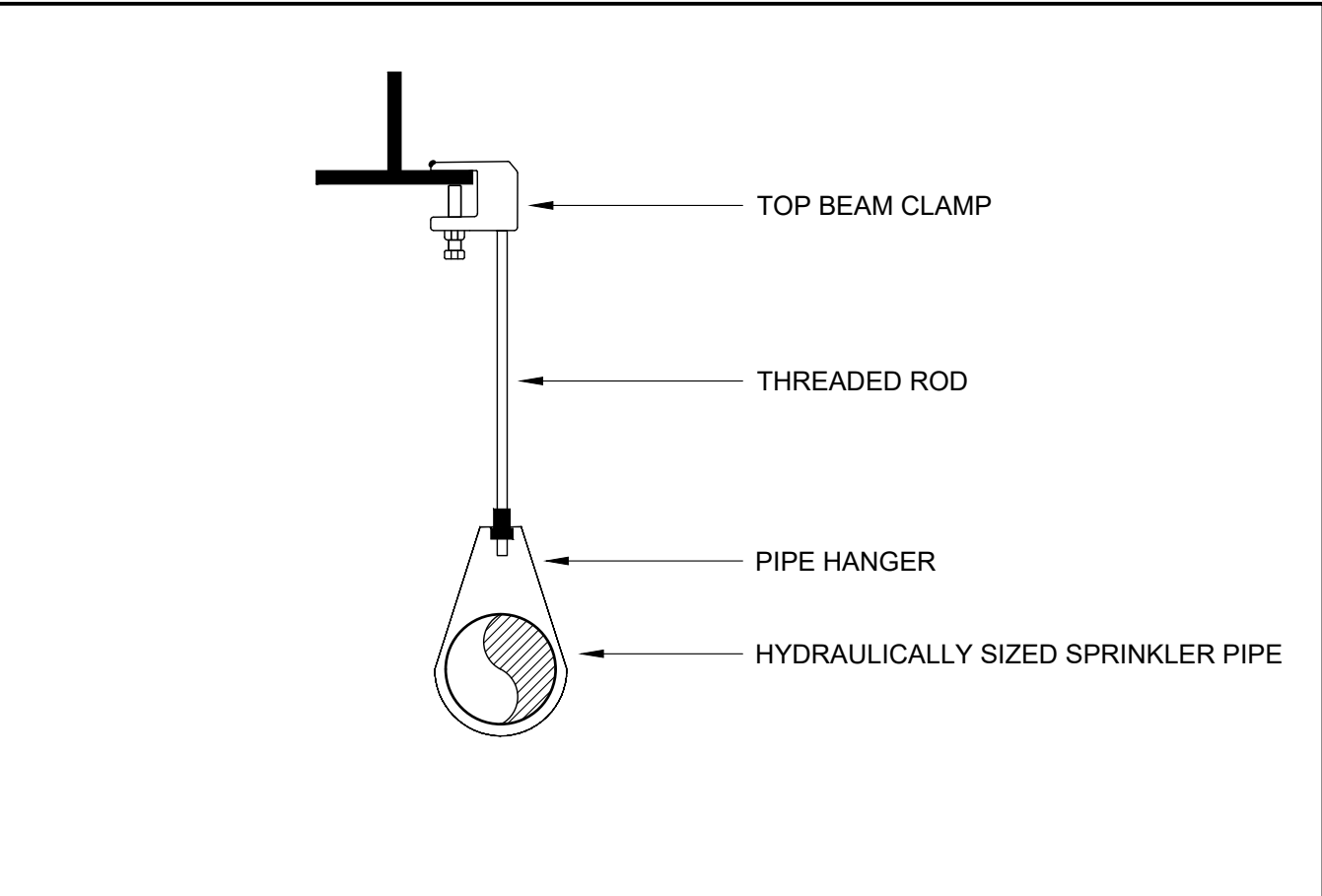
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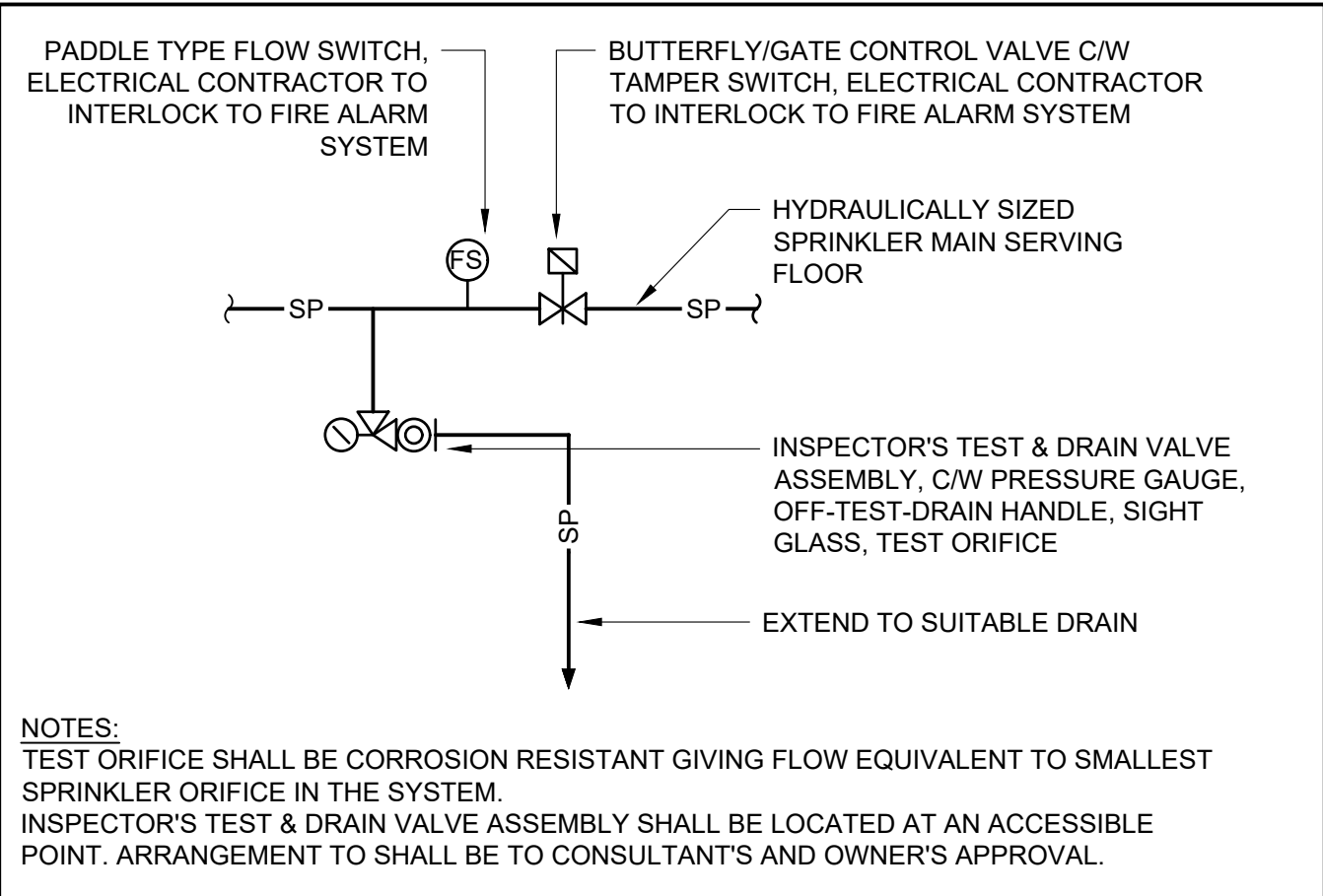
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WATER ENTRANCE & SPRINKLER ASSEMBLY DETAIL NTS



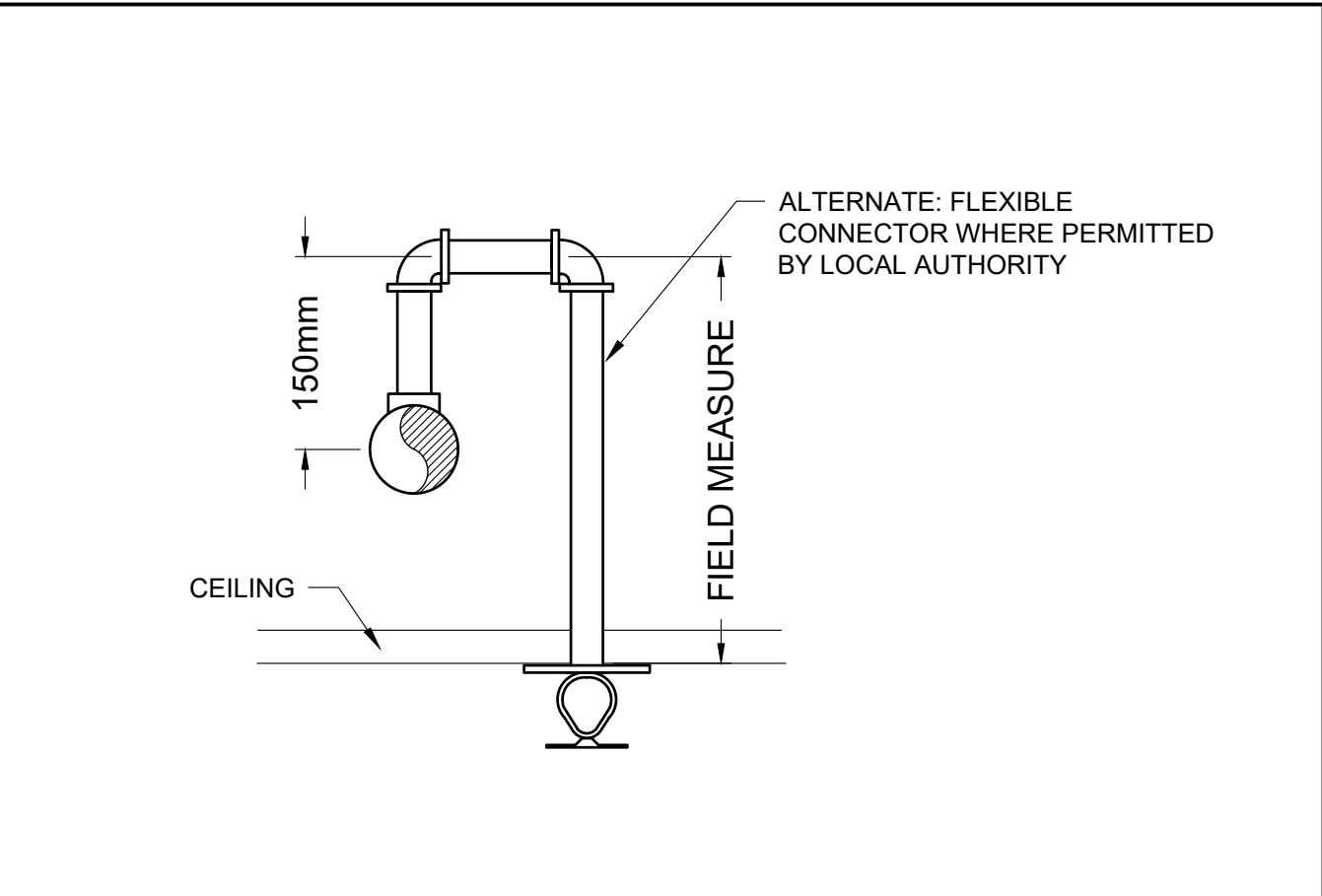
DETAIL
TYPICAL SPRINKLER HEAD LOCATION NTS



DETAIL
TYPICAL HANGER NTS



DETAIL
TYPICAL ZONE CONTROL ASSEMBLY NTS



DETAIL
TYPICAL RETURN BEND NTS

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York Region

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

CONSULTANT

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PROFESSIONAL SEAL

16 FEB 2023
A.C. WIEBE
100156822
PRACTICE OF ONTARIO

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FIRE PROTECTION DETAILS

ORIENTATION

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