

UHNBC FLUOROSCOPY REPLACEMENT

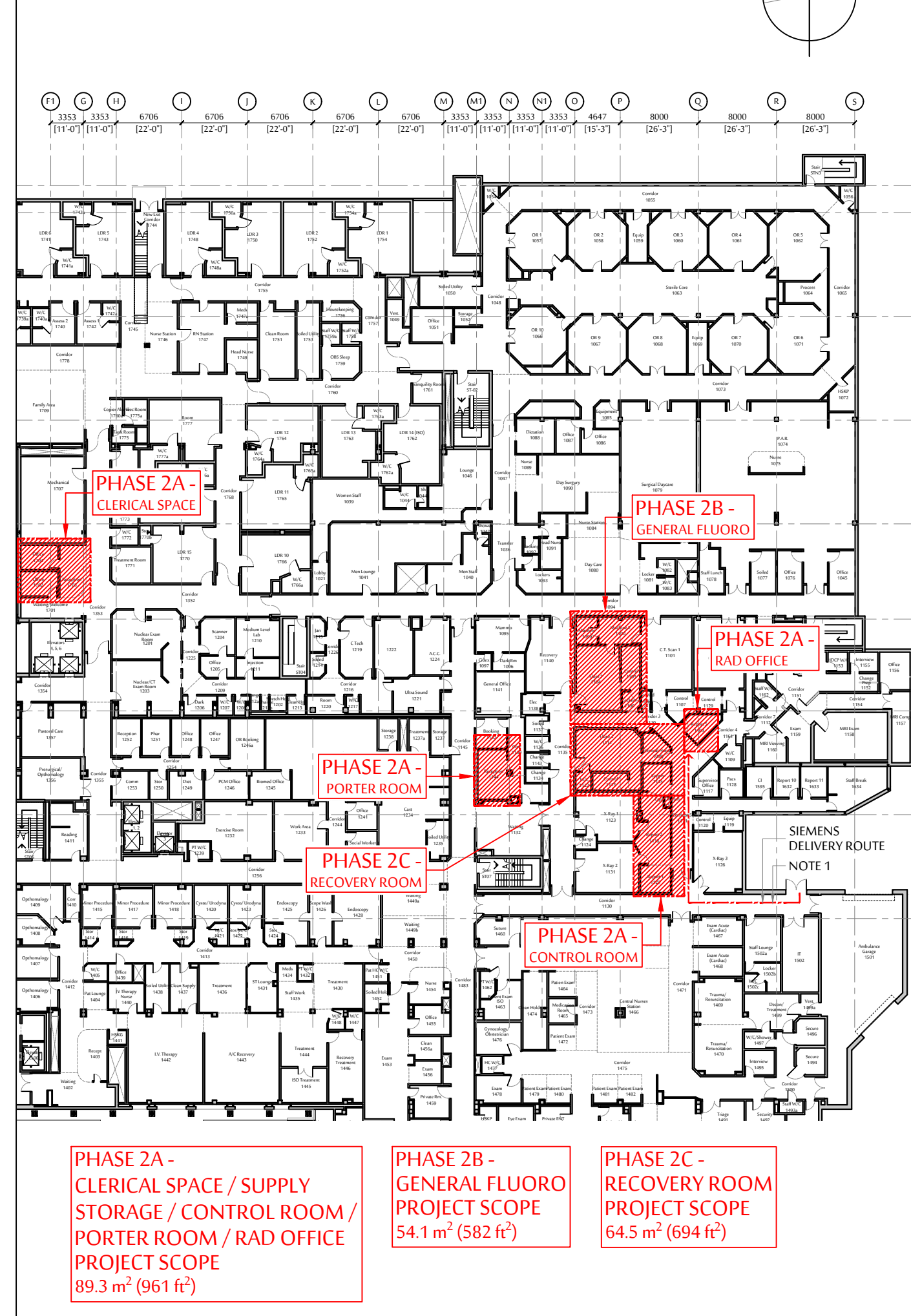
PHASE 2 - GENERAL FLUORO

1475 EDMONTON STREET, PRINCE GEORGE, BC V2M 1S2

ISSUED FOR CONSTRUCTION
OCTOBER 13, 2021

KEY PLAN - EXISTING LEVEL 1

SCALE: 1 = 500



DRAWING LIST

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A2.02B PHASE 2B/C - FRAMING PLAN
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MECHANICAL
M0.000 COVER PAGE
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M1.101 LEVEL 1 EXIST. PLUMBING DEMO PLAN
M1.102 LEVEL 1 EXIST. MEDIC. GAS DEMO PLAN
M1.200 LEVEL 1 EXIST. MECH. DEMO PLAN
M1.201 LEVEL 1 EXISTING MECHANICAL PLAN

M1.300 LEVEL 1 EXIST. FIRE SUPPRESSION DEMO PLAN
M1.301 LEVEL 1 EXISTING FIRE SUPPRESSION PLAN
M2.100 LEVEL 0 SANITARY PLAN
M2.101 LEVEL 1 PLUMBING PLAN
M2.102 LEVEL 1 MEDICAL GAS PLAN
M2.200 LEVEL 1 MECHANICAL PLAN
M2.201 LEVEL 1 MECHANICAL PLAN
M2.202 ROOF MECHANICAL PLAN
M2.300 LEVEL 1 FIRE SUPPRESSION PLAN
M2.301 LEVEL 1 FIRE SUPPRESSION PLAN
M4.200 DETAILS
M4.201 DETAILS
M5.100 SCHEDULES
M5.200 SPECIFICATIONS
M5.201 SPECIFICATIONS
M5.202 SPECIFICATIONS

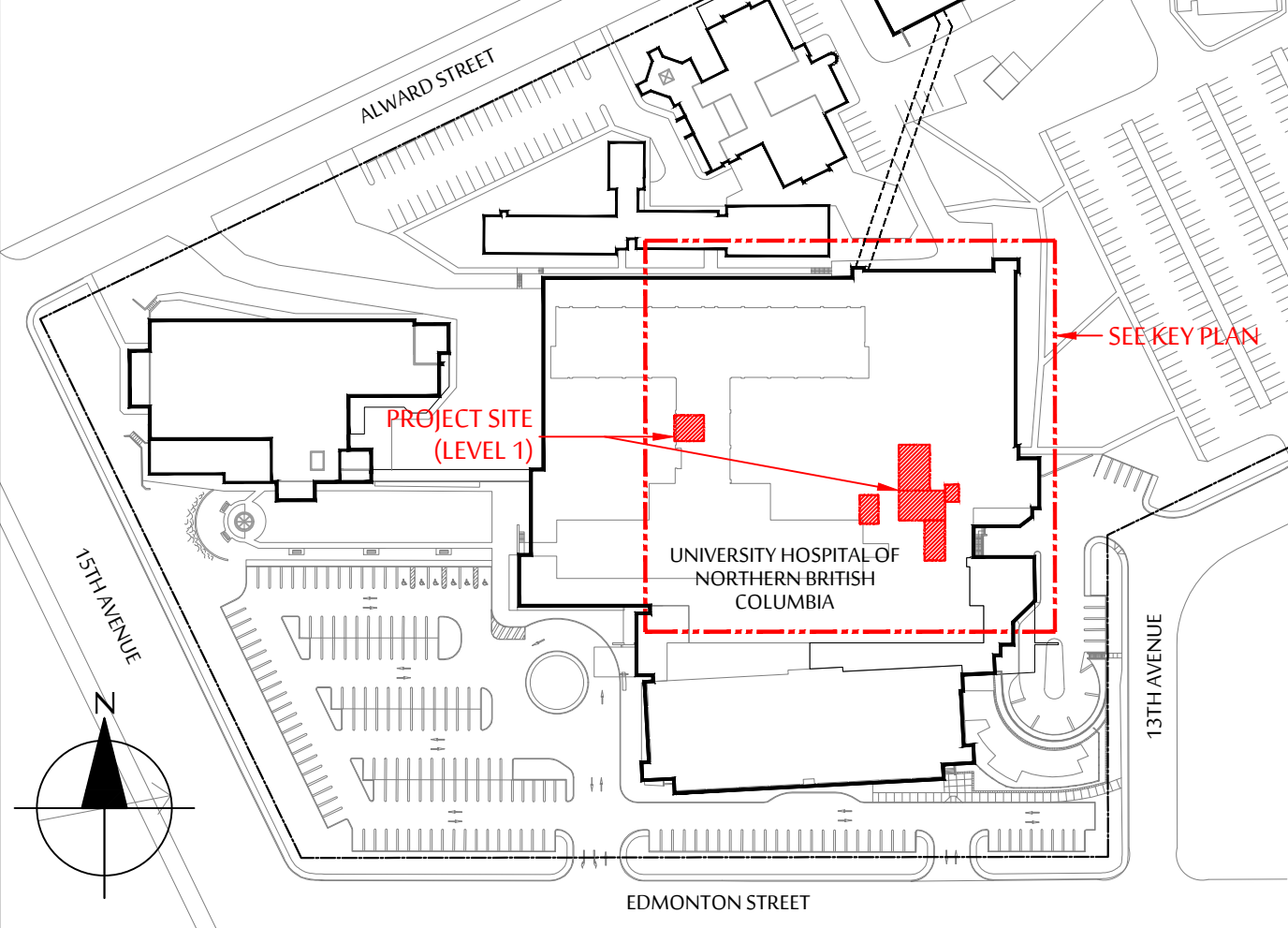
ELECTRICAL
E1.01 ELECTRICAL DEMOLITION
E2.01 LEVEL 1 CONSTRUCTION PLAN
E2.02 LEVEL 1 RCP
E2.03 LEVEL 1 ADDITIONAL SCOPE
E3.01 ELECTRICAL DETAILS
E3.02 ELECTRICAL SPECS - KEY PLANS

REFERENCE DRAWINGS

SIEMENS AXIOM ARTIS ZEE MP INSTALL DWGS (4 PAGES)
GULDMMANN PATIENT LIFT DWGS (6 PAGES)

LOCATION PLAN

N.T.S.



INFECTION CONTROL REQUIREMENTS

- FOR ALL CONSTRUCTION WORK WITHIN THE HOSPITAL, CONTRACTORS MUST FOLLOW INFECTION CONTROL PROCEDURES AS REQUIRED BY:
 - CSA STANDARDS 2317.13.12 "FUNDAMENTALS FOR INFECTION CONTROL DURING CONSTRUCTION, RENOVATION AND MAINTENANCE OF HEALTH CARE FACILITIES"
 - NORTHERN HEALTH AUTHORITY CLINICAL PRACTICE STANDARD "INFECTION CONTROL DURING CONSTRUCTION, RENOVATIONS AND MAINTENANCE OF HEALTH CARE FACILITIES"
 - THIS PROJECT IS CLASSIFIED AS:
 - PHASE 2A - CLERICAL SPACE / RAD OFFICE / PORTER ROOM
POPULATION RISK GROUP = 1 (OFFICE AREA - NON-CLINICAL)
CONSTRUCTION ACTIVITY TYPES = D
GUIDELINES FOR INFECTION CONTROL MEASURES = CLASS III / IV
 - PHASE 2A/2B/2C - X-RAY CONTROL ROOM / GEN FLUORO / RECOVERY ROOM
POPULATION RISK GROUP = 3 (DIAGNOSTIC IMAGING)
CONSTRUCTION ACTIVITY TYPES = D
GUIDELINES FOR INFECTION CONTROL MEASURES = CLASS IV
- PRECONSTRUCTION MEETING:
 - BEFORE COMMENCEMENT OF CONSTRUCTION, CONTRACTOR MUST SET UP A PRECONSTRUCTION MEETING WITH THE HOSPITAL TO REVIEW AND OBTAIN APPROVAL FOR THE PROPOSED INFECTION CONTROL MEASURES.
 - CONTRACTOR TO COORDINATE WITH NHA AND THE HOSPITAL AND SUBMIT A "RISK REDUCTION MEASURES CONSTRUCTION REPORT" TO NORTHERN HEALTH AUTHORITY FOR APPROVAL
- CONTRACTORS TO OBSERVE THE FOLLOWING INFECTION CONTROL PRECAUTIONS FOR WORKING AT THE DISCHARGE OPENINGS OF ROOFTOP EXHAUST DUCTS.
 - INFECTION CONTROL REQUIRES THAT WORKERS MUST BE MADE AWARE OF THE FACT THAT HOSPITAL EXHAUST DUCTS MAY CARRY DUST AND SPORE PARTICLES, HOWEVER, NOT ACTIVE TB, DUST AND SPORES, RESIDING IN THESE DUCTS, MAY BE DISCHARGED TO THE EXTERIOR WITH THE AIR MASS CREATED WITHIN THESE DUCTS.
 - ALTHOUGH THE LEVEL OF RISK FOR POTENTIAL CONTAMINATION IS LOW, IT IS ADVISABLE THAT CONSTRUCTION WORKERS, ESPECIALLY THOSE WHO ARE SENSITIVE TO RESPIRATORY ILLNESSES, WEAR APPROPRIATE DUST MASKS CAPABLE OF FILTERING FINE PARTICULATES.

GUIDANCE TO CONSTRUCTION SITES OPERATING DURING COVID-19

AS THE CHALLENGES CAUSED BY THE CORONAVIRUS OUTBREAK CONTINUE TO SHIFT, THE B.C. GOVERNMENT AND B.C.'S PROVINCIAL HEALTH OFFICER, DR. BONNIE HENRY, ARE TAKING UNPRECEDENTED MEASURES TO SLOW THE TRANSMISSION OF COVID-19. RECENTLY, DR. HENRY ISSUED AN ORDER UNDER THE B.C.'S PUBLIC HEALTH ACT PROHIBITING THE GATHERING OF PEOPLE IN EXCESS OF 50 PEOPLE AT A PLACE OF WHICH YOU ARE THE OWNER, OCCUPY OR OPERATOR, OR FOR WHICH YOU ARE OTHERWISE RESPONSIBLE. WE UNDERSTAND THAT EMPLOYERS IN THE CONSTRUCTION INDUSTRY ARE ASKING FOR CLARITY ABOUT WHAT THIS MEANS FOR THEM.

WHILE THIS ORDER DOES NOT APPLY TO CONSTRUCTION SITES AS A WHOLE, WE ARE DIRECTING EMPLOYERS TO TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE THE RISKS OF COVID-19 TRANSMISSION AND ILLNESS TO YOU AND YOUR EMPLOYEES. THIS INCLUDES:

- THERE SHOULD BE NO MORE THAN 50 PEOPLE IN THE SAME SPACE IN ANY CIRCUMSTANCES.
- WHERE POSSIBLE EMPLOYEES SHOULD MAINTAIN A DISTANCE OF 2 METRES APART FROM EACH OTHER.
- POST SIGNAGE THAT LIMITS THE NUMBER OF OCCUPANTS IN ANY ELEVATOR TO FOUR PEOPLE AT A TIME.
- REDUCE IN-PERSON MEETINGS AND OTHER GATHERINGS AND HOLD SITE MEETINGS IN OPEN SPACES OR OUTSIDE.
- INCREASE THE NUMBER OF HANDWASHING STATIONS AND POST SIGNAGE THAT IDENTIFIES THEIR LOCATION.
- MAINTAIN A LIST OF EMPLOYEES THAT ARE CURRENTLY WORKING ON SITES AND UPDATE THIS LIST DAILY.
- ALL COMMON AREAS AND SURFACES SHOULD BE CLEANED AT THE END OF EACH DAY. EXAMPLES INCLUDE WASHROOMS, SHARED OFFICES, COMMON TABLES, DESKS, LIGHT SWITCHES, AND DOOR HANDLES.
- ANYONE WITH COVID-19 LIKE SYMPTOMS SUCH AS SORE THROAT, FEVER, SNEEZING, OR COUGHING MUST SELF-ISOLATE AT HOME FOR 14 DAYS.

SECTION 4.85 OF THE OCCUPATIONAL HEALTH AND SAFETY REGULATION DOES PROVIDE FOR A MINIMUM STANDARD AROUND THE PROVISION OF WASHROOMS AND HAND WASHING FACILITIES. WHERE PLUMBING FACILITIES ARE IMPRACTICABLE, EMPLOYERS MUST PROVIDE ACCESS TO PORTABLE WASHROOM AND HAND WASHING FACILITIES. THOSE FACILITIES MUST BE MAINTAINED IN GOOD WORKING ORDER, AND MUST BE PROVIDED WITH THE SUPPLIES NECESSARY FOR THEIR USE. EMPLOYERS SHOULD REASSESS THEIR WORK ENVIRONMENT EVERY DAY AND KEEP UPDATED WITH THE INFORMATION POSTED ON THE PROVINCE'S WEBSITE: <https://www2.gov.bc.ca/gov/content/safety/emergencypreparedness-response-recovery/covid-19-provincial-support>

PROJECT INFO & CODE ANALYSIS

ADDRESS: 1475 EDMONTON STREET, PRINCE GEORGE, BC V2M 1S2
LEGAL DESCRIPTION: LOT 4 INC 243, PART 3006
PROJECT AREA: PHASE 2A: 89.3 SM
PHASE 2B: 54.1 SM
PHASE 2C: 64.5 SM
TOTAL: 207.9 SM

CODE ANALYSIS:	BRITISH COLUMBIA BUILDING CODE 2018 (INCLUDING LATEST AMENDMENTS)
CODE APPLICATIONS:	DIVISION A, PARTS 1, 2 AND 3 DIVISION B, PARTS 1, 7, 8 AND 10 DIVISION C, PARTS 3, 4, 5 AND 6 DIVISION D, PARTS 1 & 2
MAJOR OCCUPANCIES:	EXISTING - GROUP B, DIVISION 2 (TREATMENT - HOSPITAL) PROPOSED - NO CHANGE
SEPARATION OF MAJOR OCCUPANCIES:	EXISTING - NOT APPLICABLE PROPOSED - NOT APPLICABLE
OCCUPANT LOAD:	TREATMENT = 10.0 SM PER PERSON CLERICAL SPACE = 35.9 SM / 10.0 SM = 4 PHASE 2B OCCUPANT LOAD = 54.1 SM / 10.0 SM = 5 PHASE 2C OCCUPANT LOAD = 64.5 SM / 10.0 SM = 6
BUILDING SIZE:	GROUP B, DIVISION 2, ANY HEIGHT, ANY AREA, SPRINKLERED EXISTING BUILDING HEIGHT: 5-STORY PROPOSED - NO CHANGE
FIRE SUPPRESSION:	REQUIRED - BUILDING TO BE SPRINKLERED THROUGHOUT EXISTING - SPRINKLERED THROUGHOUT PROPOSED - NO CHANGE
CONSTRUCTION TYPE:	REQUIRED - NONCOMBUSTIBLE CONSTRUCTION EXISTING - NONCOMBUSTIBLE CONSTRUCTION PROPOSED - NONCOMBUSTIBLE CONSTRUCTION
FIRE RESISTANCE RATING:	REQUIRED (FLOOR) - 2 HOUR F.R.R. NONCOMBUSTIBLE CONST. EXISTING - 2 HOUR F.R.R. CONC. SLAB PROPOSED - NO CHANGE
SEPARATION OF SUITES:	EXISTING - NO CHANGE
PUBLIC CORRIDOR SEPARATIONS:	EXISTING - NO CHANGE
EGRESS DOORWAYS FROM ROOM OR SUITES:	REQUIRED MIN 2 EXCEPT 1 REQUIRED IF: SPRINKLERED THROUGHOUT FLOOR AREA < 200 SM (2,153 SF)
DISTANCE BETWEEN EGRESS DOORWAYS:	NOT APPLICABLE
EGRESS DOORWAY WIDTH:	MIN 800mm (31.5") CLEAR MIN 1050mm (42") CLEAR TO MOVE PATIENT BEDS
NO. OF EXITS FROM FLOOR AREAS:	MIN 2 REQUIRED
DISTANCE BETWEEN EXITS:	1/2 DIAGONAL OF FLOOR AREA BUT NOT LESS THAN 9 M (29.5 FT)
TRAVEL DISTANCE TO EXITS:	MAX 45 M (148 FT)
EXIT WIDTH FOR DOORWAYS:	MIN 6.1mm X OCCUP. LOAD
CORRIDOR (AGGREGATE):	MIN 1100mm (43.3") WIDE
DOORWAY (AGGREGATE):	MIN 800mm (31.50") WIDE
FIRE SEPARATION OF EXITS FROM FLOOR ABOVE:	MIN 2 HR. (AS REQ'D UNDER 3.2.2)
WASHROOM PROVISION:	REQUIREMENTS TO BE VERIFIED
HANDICAPPED PROVISION: ACCESSIBLE WASHROOM:	REQUIREMENTS TO BE VERIFIED
PARKING PROVISION:	NOT APPLICABLE

PROJECT TEAM

CLIENT: NORTHERN HEALTH AUTHORITY
SUITE 600 - 299 VICTORIA ST
PRINCE GEORGE, BC V2L 5B8

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E - lee.boon@siemens-healthineers.ca

GENERAL NOTES

- GENERAL
- DO NOT SCALE THESE DRAWINGS. SEEK ARCHITECT FOR CLARIFICATION ON ANY MISSING DIMENSIONS
- VERIFY ALL DIMENSIONS AND SITE CONDITIONS ON SITE. ANY DISCREPANCIES FOUND ARE TO BE REPORTED IMMEDIATELY TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- ALL DIMENSIONS ARE GIVEN IN METRIC MEASURE EXCEPT NOTED OTHERWISE. FRAME CONSTRUCTION DIMENSIONS ARE FROM THE OUTSIDE FACE OF FINISH OF EXTERIOR WALLS, AND FROM THE FINISHED FACE OF INTERIOR PARTITIONS, UNLESS NOTED OTHERWISE.
- ALL DRAWINGS AND NOTES SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND DRAWINGS OF OTHER CONSULTANTS. ANY DISCREPANCIES, ERRORS OR OMISSIONS IN THE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT BEFORE WORK IN THAT AREA CAN COMMENCE.
- PROJECT AREA IN DASHED LINES DENOTES APPROXIMATE LIMITS FOR THE WORK IN PLAN. WORK IS NOT NECESSARILY LIMITED TO THE AREA ENCLOSED - ALSO REFER TO M&E DWGS FOR WORK OUTSIDE PROJECT AREA.
- ALL WORK SHOWN WITHIN PROJECT AREA IS CONSIDERED AS NEW AND BE INCLUDED IN CONTRACT EXCEPT NOTED AS EXISTING ON CONSTRUCTION DOCUMENTS.
- ALL CONSTRUCTION AND INSTALLATION IS TO BE QUOTED AND PERFORMED IN ACCORDANCE WITH THE CURRENT ISSUE OF THE BRITISH COLUMBIA BUILDING CODE 2018 AND ITS AMENDMENTS, AS WELL AS ALL OTHER CODES BY LAWS, AND REGULATIONS HAVING JURISDICTION.
- ALL WORK PERFORMED BY TRADES AND SUB-TRADES SHALL MEET THE MINIMUM REQUIREMENTS OF WORKMANSHIP AS ACCEPTED IN THEIR OWN TRADE OR TRADE ASSOCIATION.
- ALL MATERIALS, FIXTURES AND EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- CONTRACTOR TO SUPPLY ALL NEW MATERIALS AND PERFORM ALL WORK TO FULFILL THE INTENT OF THE CONTRACT DOCUMENTS.
- CONTRACTOR TO PROVIDE ALL NECESSARY COORDINATION AND SUPERVISION OF ALL SUB-TRADES.
- NO STRUCTURAL ITEMS TO BE REMOVED, CUT OR ALTERED OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS.
- CONTRACTOR TO ENSURE ALL CONSTRUCTION AND STORAGE OF MATERIALS AND EQUIPMENT TO BE CONFINED WITHIN THE PROJECT AREA THROUGHOUT CONSTRUCTION PERIOD. IN NO CIRCUMSTANCES SHALL ANY EXISTING EXIT ROUTE BE OBSTRUCTED.
- CONTRACTOR TO POST ALL NECESSARY SAFETY AND EXIT SIGNS AT AND AMEND AS REQUIRED TO MAINTAIN A SAFE ENVIRONMENT WITHIN AND IN THE VICINITY OF THE SITE THROUGHOUT THE CONSTRUCTION PERIOD.
- CONTRACTOR TO MAINTAIN PROPER MEANS OF EGRESS FROM PROJECT AREA AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
- CONTRACTOR TO NOTIFY, COORDINATE AND SEEK APPROVAL FROM HOSPITAL & SECURITY DEPT. 72 HOURS IN ADVANCE PRIOR TO ANY WORK OUTSIDE PROJECT AREA AS WELL AS ANY MECH, ELEC, PLUMB, FIRE SERVICES AND MEDICAL GASES SHUT OFF. IF SUCH WORK NEEDS TO BE PERFORMED AFTER REGULAR HOURS AND SO THAT ANY INTERRUPTION OF THE NORMAL OPERATION OF THE SPACES OUTSIDE THE PROJECT AREA, SUCH AFTER HOUR WORK WILL BE PART OF THIS CONTRACT.
- DELIVERY OF MATERIALS AND DISPOSAL OF GARBAGE MUST BE CARRIED OUT IN SEALED BINS AFTER REGULAR HOURS THROUGH SERVICE CORRIDORS AS PERMITTED BY THE HOSPITAL.
- SUPPLY, DELIVERY AND ASSEMBLY OF FURNITURE AND FIXTURES INDICATED AS BY OWNER ARE NOT PART OF THIS CONTRACT. CONTRACTOR IS RESPONSIBLE ONLY FOR COORDINATION OF THE ABOVE, PLUS INSTALLATION IF SPECIFIED.
- SUPPLY AND DELIVERY OF ELECTRICAL APPLIANCES ARE BY OWNER. CONTRACTOR IS RESPONSIBLE FOR HOOK UP OF ELECTRICAL APPLIANCES.

ABBREVIATIONS

@	AT / EACH AT	GA	GAUGE	R/A	RETURN AIR
A/C	AIR CONDITIONER	GB	GRAB BAR	REF	REFERENCE
ABHR	ALCOHOL BASE HAND RUB	GR	GYPSSUM WALL BOARD	REFL	REFLECTED
ACOUST	ACOUSTICAL	GW	HIGH	REQ'D	REQUIRED
ADJ	ADJUSTABLE	H	HANDICAPPED	RM	ROOM
AF	ABOVE FINISHED FLOOR	HC	HAND DRYER	S/A	ROUGH OPENING
ALUM	ALUMINUM	HD	HEIGHT	SCH	SUPPLY AIR
ATC	ACoustic TILE CEILING	HM	HOLLOW METAL	SD	SCHEDULE
BLOG	BLOCK	HMI	HANDICAPPED MIRROR	S/D	SOAP DISPENSER
BLK	BLOCK	HORIZ	HORIZONTAL	SIM	SIMILAR
B/S	BOTH SIDES	HW	HARD WOOD	SNO	SANITARY NAPKIN
BTWN	BETWEEN	INCL	INCLUDING	SND	DISPOSAL
CG	CORNER GUARD	INSUL	INSULATION	SPEC	SPECIFICATION
CH	CLOTHES HOOK	INT	INTERIOR	SS	STAINLESS STEEL
CL	CENTER LINE	JB	JUNCTION BOX	STL	STEEL
CLNG	CEILING	L	LENGTH	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	LAD	LINEAR AIR DIFFUSER	SUSP	SUSPENDED
CONC	CONCRETE	LAM	LAMINATE	T&B	TOP & BOTTOM
CONSTR	CONSTRUCTION	LRA	LINEAR R/A DIFFUSER	T&G	TONGUE & GROOVE
COORD	COORDINATE	LRA	LINEAR S/A DIFFUSER	THK	THICK
CT	CERAMIC TILE	M&E	MECH & ELEC	TOC	TOP OF CONCRETE
DEMO	DEMOLITION / DEMOLISH		(INCL PLUMB & FS)	TPD	TOILET PAPER
DIA	DIAMETER	MANUF	MANUFACTURER	TYP	TYPICAL
DR	DOOR	MAX	MAXIMUM	U/C	UNDER COUNTER
DN	DOWN	MECH	MECHANICAL	U/S	UNDERSIDE
DWG(S)	DRAWING(S)	MTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
E/A	EXHAUST AIR	N	NEW	VCT	VINYL COMPOSITION TILE
EL / ELEV	ELEVATION	NIC	NOT IN CONTRACT	VERT	VERTICAL
ELEC	ELECTRICAL	NTS	NOT TO SCALE	VEST	VESTIBULE
EQ	EQUAL	NUM / #	NUMBER	VIF	VERIFIED IN FIELD
EX	EXIST	OD	OUTSIDE DIAMETER	W	WIDE
EXT	EXTERIOR	PL	PROPERTY LINE	W/	WITH
FD	FLOOR DRAIN	PLAS	PLASTIC	WC	WATER CLOSET
FDN	FOUNDATION	PLUMB	PLUMBING	WD	WOOD
FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD	WP	WALL PROTECTION
FIN	FINISH	PTH	PAPER TOWEL HOLDER	WR	WASTE RECEPTACLE
FLR	FLOOR	PTN	PARTITION	WT	WEIGHT
FP	FILLER PANEL				
FR	FIRE RATED				
FS	FIRE SERVICES				

ARCHITECT:



WWW.DCYTARCHITECTURE.CA

WORK OUTSIDE PROJECT AREA GENERAL NOTES

- OBTAIN AUTHORIZATION FROM HOSPITAL TO PERFORM WORK OUTSIDE PROJECT AREA PRIOR TO COMMENCEMENT OF WORK
- ALL WORK OUTSIDE PROJECT AREA AND HOARDING AREA TO BE PERFORMED AFTER REGULAR HOURS, UNLESS AUTHORIZED BY HOSPITAL OTHERWISE
- SEE M&E DWGS FOR M&E SCOPE OF WORK
- REMOVE AND REINSTALL CLNG TILES AND GRID AS REQ'D TO PERFORM M&E WORK
- REPLACE CLNG TILES WITH NEW TO MATCH EX IF DAMAGED DURING CONSTRUCTION
- PERFORM SCANNING OF CONC SLAB TO VERIFY EXISTING M&E SERVICES & REBAR INSIDE SLAB BEFORE CORING OF SLAB
- PROVIDE FIRE STOPPING TO MAINTAIN FIRE SEPARATION REQ'D FOR ALL NEW FLOOR AND WALL PENETRATIONS
- REMOVE, REPAIR & REFINISH WALL AND FLOOR IF REQ'D FOR M&E WORK
- REMOVE AND REPAIR EX UNDERSLAB THERMAL INSULATION IF REQ'D FOR INSTALLATION OF NEW M&E SERVICES - SEE M&E DWGS FOR EXTENT OF WORK
- FOR M&E WORK EXTENDING BELOW THE PROJECT AREA, CONTRACTOR TO REMOVE, REPAIR & REFINISH EXISTING CEILING AS REQ'D
- PROTECT EXISTING FLOOR FINISHES ALONG PATH OF TRAVEL FROM ELEVATOR LOBBY TO PROJECT AREA

NOTE 1 - FOR DELIVERY OF GENERAL FLUOROSCOPY EQUIPMENT:

- CONTRACTOR TO COORDINATE WITH HOSPITAL 72 HOURS IN ADVANCE FOR DELIVERY OF EQUIPMENT.
- CONTRACTOR TO MAKE GOOD EXTERIOR AND INTERIOR WALLS, FLOORS AND CEILING, IF DAMAGED DURING EQUIPMENT DELIVERY.
- CONTRACTOR TO PROVIDE PROTECTIVE COVERING FOR WALL, FLOOR AND CEILING AS REQUIRED BY HOSPITAL ALONG THE DELIVERY ROUTE.

12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
11	ISSUED FOR RP REVISION 1	AUG 4, 2021	RC
10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	NOT ISSUED	-	-
8	TENDER ADDENDUM 1	JUNE 10, 2021	RC
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
5	ISSUED FOR RP SUBMISSION	MAY 7, 2021	RC
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
No.	REVISION	DATE	BY

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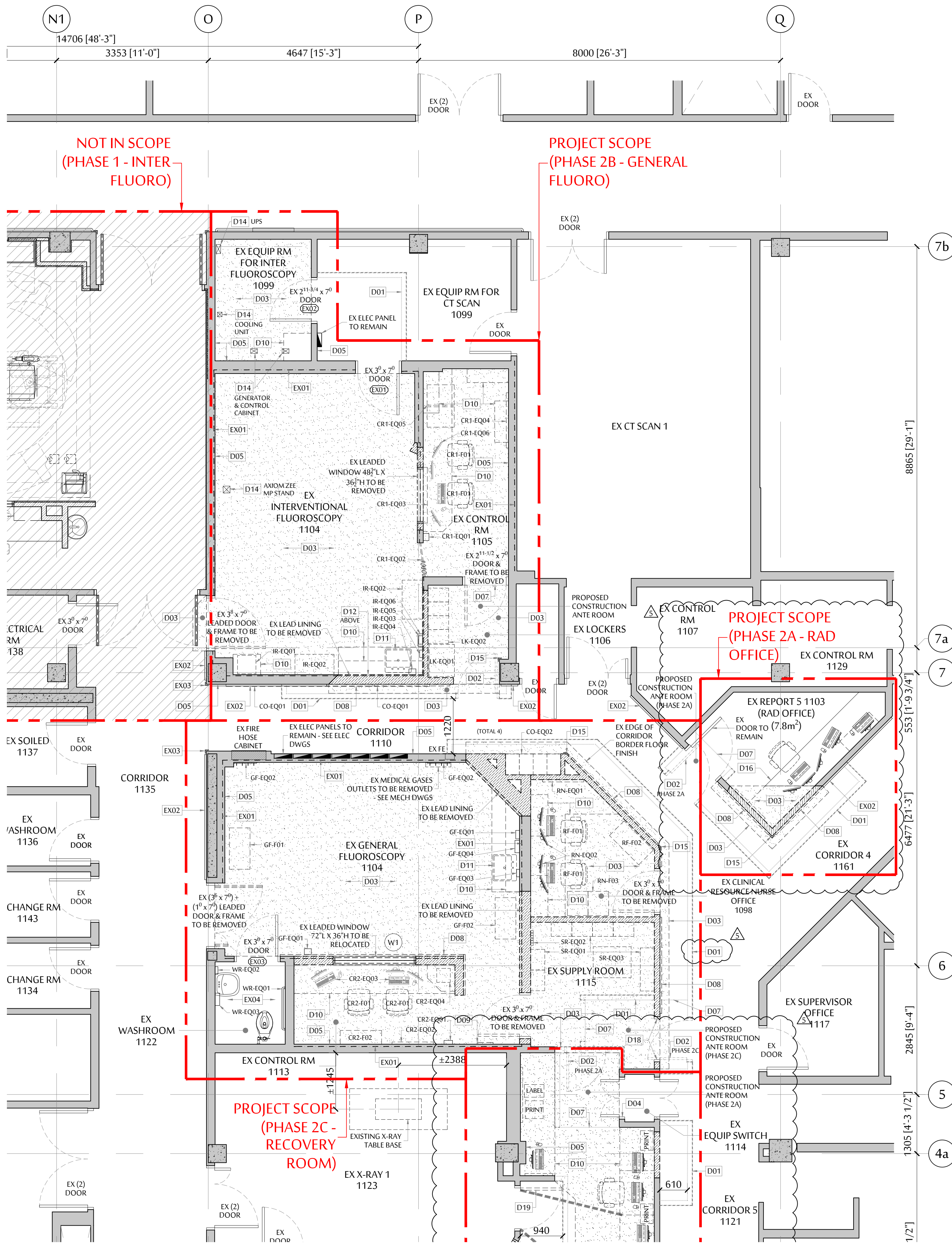
UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO LOCATION PLAN & GENERAL NOTES

SCALE: AS NOTED
DATE: OCTOBER 2020
DRAWN: RC
CHECKED: DC
JOB No.: DCYT2009

PHASE 2
A1.01



1 PHASE 2B & 2C - DEMOLITION PLAN
SCALE : 1 = 50

PHASE 2B - APPROX. GFA = 54.1 m² (582 ft²)
PHASE 2C - APPROX. GFA = 64.5 m² (694 ft²)

DEMOLITION GENERAL NOTES

- CONTRACTOR TO PROVIDE ALL DEMOLITION AS REQUIRED FOR NEW WORK.
- OBTAIN APPROVAL FROM HOSPITAL FOR LAYOUT OF TEMP HOARDING AND CONSTRUCT HOARDING PER HOSPITAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE ADEQUATE PROTECTION TO ALL EXISTING PROPERTIES DURING DEMOLITION AND CONSTRUCTION.
- ANY CONCRETE SLAB CUTTING OR DEMOLITION WORK WITH EXCESSIVE NOISE MUST BE PERFORMED AFTER REGULAR HOURS AS PERMITTED BY HOSPITAL. ANY EXTRA COST ASSOCIATED WITH AFTER-HOUR WORK WILL BE PART OF THIS CONTRACT.
- DISPOSAL OF DEMOLISHED MATERIALS MUST BE CARRIED OUT AFTER REGULAR HOURS THROUGH SERVICE CORRIDORS AS PERMITTED BY THE HOSPITAL.
- REMOVAL OF ANY FLOOR FINISHES MUST INCL COMPLETE REMOVAL OF ANY UNDERLAYMENT AND GLUE ADHERED TO THE CONC SLAB.
- ANY ASSOCIATED M&E SERVICES MUST BE DISCONNECTED BEFORE REMOVAL OF ANY WALL, FLOOR AND CEILING.
- THE OWNER RESERVES THE RIGHT TO CLAIM ALL DEMOLITION ITEMS WHERE IT MAY BE POSSIBLE TO REUSE IN THE FUTURE. CONFIRM WITH THE OWNER PRIOR TO DISPOSING OF ITEMS.
- BEFORE ANY CONCRETE SLAB CUTTING AND/OR CORING, CONTRACTOR MUST PERFORM SCANNING OF EX CONC SLAB & DIG OUT TRIAL PITS TO LOCATE AND RECORD ANY EXISTING IN-SLAB OR UNDER-SLAB M&E PIPES, DUCTS, CONDUITS AND UTILITY SERVICES. DRILL AND DIG TRIAL PITS AS REQ'D TO VERIFY EXACT LOCATION OF EX UNDERGROUND SERVICES. CONTRACTOR IS REQUIRED TO SEEK APPROVAL FROM ARCHITECT BEFORE COMMENCEMENT OF THE SLAB CUTTING AND/OR CORING WORK.
- WHERE PENETRATIONS THROUGH CONCRETE SLAB ARE INACCESSIBLE BY SCAN EQUIPMENT, HAND CHIP CONC SLAB TO INVESTIGATE ANY IN SLAB SERVICES.
- ALL ASBESTOS CONTAINING MATERIALS DISCOVERED DURING CONSTRUCTION SHALL BE HANDLED ACCORDING TO SPEC SECTION 011000 - "OWNERS GENERAL REQUIREMENTS" AND BE REMOVED ACCORDING TO WORKSAFE BC REQUIREMENTS.
- FIREPROOF AND PATCH EXISTING FIRE RATED WALL, FLOOR AND CEILING OPENING WITHIN PROJECT AREA TO MATCH EXISTING FIRE RATING.
- UNUSED EX OR NEW CONCRETE FLOOR PENETRATIONS MUST BE PATCHED WITH CONCRETE INFILL OF THE SAME THICKNESS AS EXISTING.

DEMOLITION KEY NOTES

- EX01 EXISTING LEAD LINING TO REMAIN. EXTENT SHOWN IS ONLY APPROX. DO NOT DAMAGE.
- EX02 EXISTING WOOD WALL GUARD TO REMAIN. DO NOT DAMAGE.
- EX03 EXISTING CORNER GUARD TO REMAIN. DO NOT DAMAGE.
- EX04 EXISTING WASHROOM EQUIPMENT, FIXTURES & FINISHES TO REMAIN U.N.O. DO NOT DAMAGE.
- EX05 EXISTING MILLWORK TO REMAIN.
- D01 EXISTING LEAD LINING TO REMAIN. EXTENT SHOWN IS ONLY APPROX. DO NOT DAMAGE.
- D02 TEMP 3' X 7' DOOR WITH 12" X 12" VISION PANEL DURING CONSTRUCTION.
- D03 EXISTING WALL BASE AND VINYL SHEET FLOOR FINISH & ADHESIVE TO BE REMOVED. INSTALL FLOOR UNDERLAYMENT AS REQUIRED FOR PREPARATION OF NEW FLOOR FINISH TO MEET FLOORING MANUFACTURER'S STANDARDS.
- D04 SEAL DOOR EDGES TO MEET INFECTION CONTROL REQUIREMENT DURING CONSTRUCTION.
- D05 REPAIR, PATCH AND MAKE SMOOTH ALL EXISTING DRYWALL TO RECEIVE NEW PAINT FOR FULL LENGTH AND HEIGHT OF WALL.
- D06 FOR M&E WORK EXTENDING BELOW THE PROJECT AREA, CONTRACTOR TO REMOVE, REPAIR & REFINISH EXISTING CEILING AS REQ'D.
- D07 TEMP CONTINUOUS 6 MIL POLY ENCLOSURE SECURED & AIR SEALED ON ALL EDGES C/W 864 X 2134 ZIPPER OPENING FOR ACCESS.
- D08 EXISTING WALL PROTECTION TO BE REMOVED.
- D09 EXISTING WALL MOUNTED WALL STOP & WD BACKING TO BE REMOVED.
- D10 EXISTING MILLWORK TO BE REMOVED.
- D11 EX SINK TO BE REMOVED - SEE MECH DWGS.
- D12 CONTRACTOR TO ALLOW (1) WEEK FOR ASBESTOS REMOVAL OF EXISTING DUCT ABOVE CEILING TILE BY OWNER.
- D13 RESERVED
- D14 CUT CONC FLOOR SLAB FOR JUNCTION BOX & CONDUIT INSTALLATION. PENETRATION TO BE FIRE STOPPED & SMOKE SEALED AS REQ'D TO MAINTAIN NECESSARY FIRE RATING. - SEE EQUIPMENT, ELEC & STRUCT DWGS FOR EXACT LOCATION, SIZE AND DETAILS.
- D15 EXISTING CORNER GUARD TO BE REMOVED.
- D16 EXISTING MILLWORK TO BE MODIFIED TO SUIT NEW CONFIGURATION.
- D17 EXISTING X-RAY ROOM 1 & 2 WILL REMAIN OPERATIONAL DURING PHASE 2A - CONTROL ROOM RENOVATIONS. - TEMPORARY HOARDING MUST ALLOW FOR ADEQUATE HOSPITAL STAFF ACCESS & CIRCULATION TO X-RAY CONSOLES AT ALL TIMES FROM X-RAY ROOMS.
- D18 EXISTING OPENING FRAME TO BE REMOVED.
- D19 EXISTING LEADED DOOR TO BE REMOVED. DOOR FRAME TO REMAIN. DOOR TO BE REMOVED ONLY ONCE NEW LEADED WALL HAS BEEN CONSTRUCTED AND REVIEWED BY PHYSICIST.

ARCHITECT :



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12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
11	ISSUED FOR BP REVISION 1	AUG 4, 2021	RC
10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	NOT ISSUED	-	-
8	TENDER ADDENDUM 1	JUNE 10, 2021	RC
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
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4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	ISSUED FOR DD REVIEW	APR 9, 2021	RC
1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC
Rev	REVISION	DATE	BY

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UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE BC V2M 1S2

PHASE 2 - GEN FLUORO LEVEL 1 DEMOLITION PLAN

SCALE: 1 : 50
DATE: OCTOBER 2020
DRAWN: RC
CHECKED: DC
JOB No.: DCYT2009

PHASE 2
A2.01B

ARCHITECT :



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DRAWING LEGEND

	PROJECT AREA
	EXISTING WALL TO BE REMOVED (INCL ELEC, MECH, PLUMB & SPRINKLER WORK WITHIN WALL)
	EXISTING WALL TO REMAIN
	NEW WALL
	NEW WALL WITH ACOUST INSULATION
	EXISTING DOOR & FRAME TO REMAIN (SEE DOOR SCHEDULE)
	EXISTING DOOR & FRAME TO BE REMOVED OR RELOCATED (SEE DOOR SCHEDULE)
	NEW DOOR & FRAME (SEE DOOR SCHEDULE)
	INTERIOR ELEVATION # / DWG #
	CROSS SECTION # / DWG #
	WALL TYPE (SEE WALL SCHEDULE)
	WINDOW TYPE (SEE WINDOW SCHEDULE)
	GLAZING PARTITION TYPE (SEE GLAZING PARTITION SCHEDULE)
	90° CORNER GUARD
	135° (OR CUSTOM ANGLE) CORNER GUARD
	FLOOR DRAIN
	GRAB BAR
	HANDICAPPED MIRROR
	MIRROR
	EXTENT OF ACCENT WALL (SEE ROOM FINISH SCHEDULE) - ALLOW FOR 1 COLOUR
	EXTENT OF LEAD LINING (SEE RAD. REPORT)
	EXTENT OF FIRE RETARDANT TREATED PLYWOOD BACKING

12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
11	ISSUED FOR IP REVISION 1	AUG 4, 2021	RC
10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	TENDER ADDENDUM 2	JUNE 16, 2021	RC
8	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
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3	ISSUED FOR DESIGN REVISION 1 REVIEW	APR 19, 2021	RC
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1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC
No.	REVISION	DATE	BY

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UHNBC
FLUOROSCOPY
REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
LEVEL 1
FRAMING PLAN

SCALE:

1 : 50

DATE:

OCTOBER 2020

DRAWN:

RC

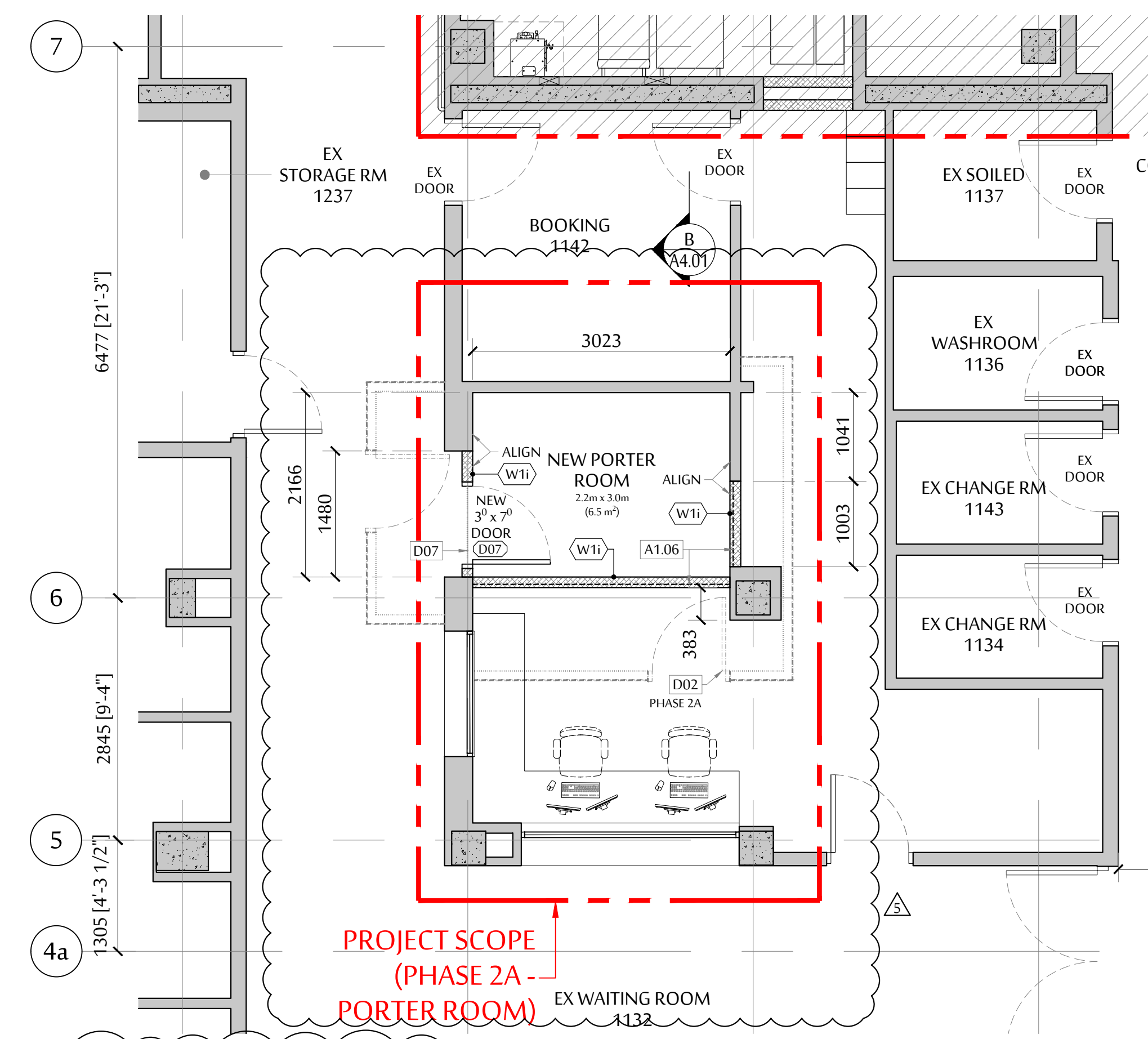
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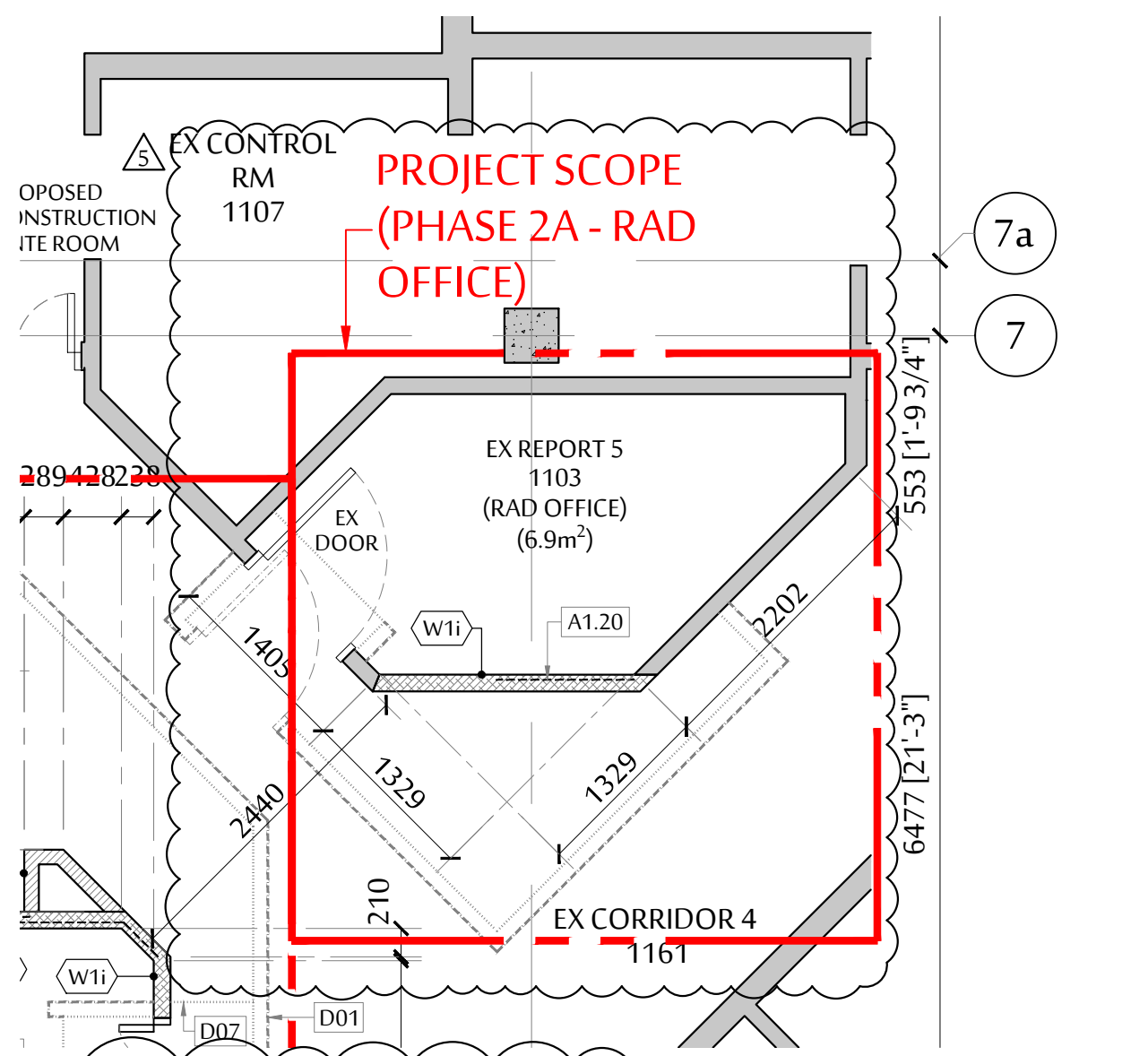
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PHASE 2
A2.02A

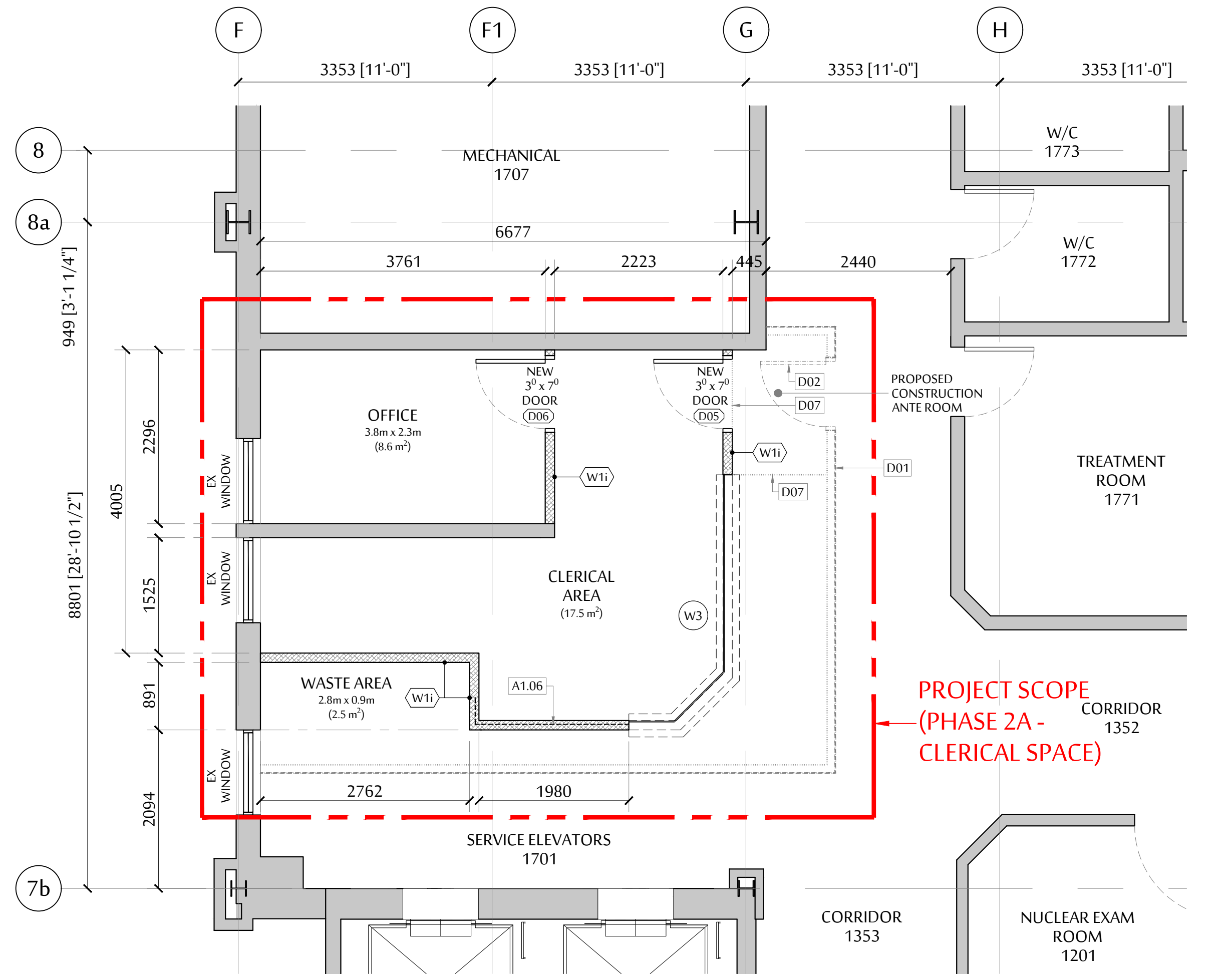


PHASE 2A - PORTER ROOM
FRAMING PLAN
SCALE: 1 = 50
PHASE 2A - APPROX. GFA
= 16.1 m² (173 ft²)

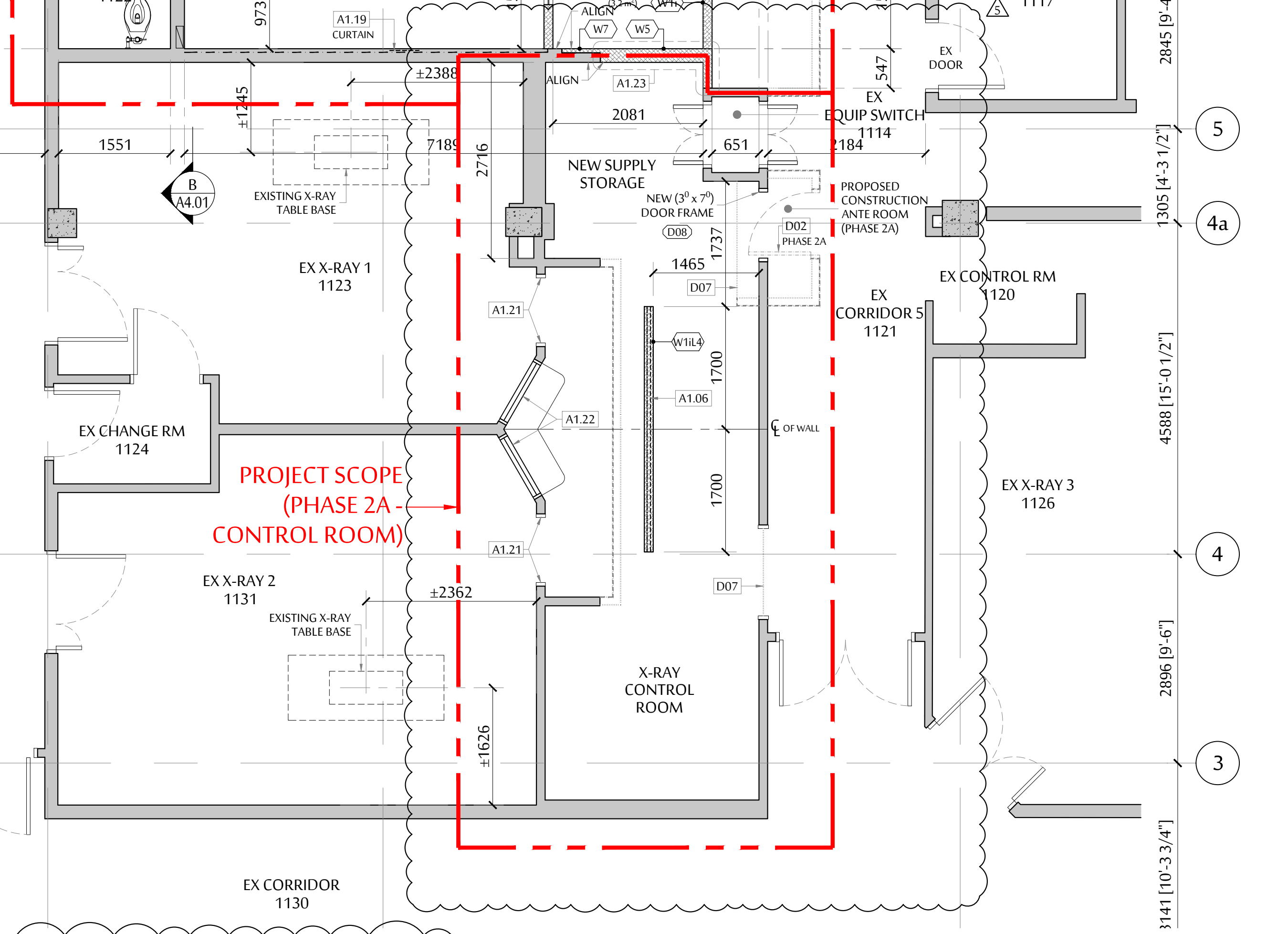
- PLUMBING FIXTURE LEGEND**
- REFER TO PLUMB DWGS FOR DETAILS OF PLUMB FIXTURES
- PF01 NEW WALL MOUNTED HAND WASHING SINK WITH HANDS FREE FAUCET
- PF02 NEW STAINLESS STEEL DROP-IN SINK WITH WATER FILTER
- A1.24 EXISTING DOOR & FRAME TO BE PAINTED PTS.
- A1.25 CURTAIN TO BE SUPPLIED & INSTALLED BY VENDOR. CONTRACTOR TO COORDINATE SUPPLY & INSTALL SEISMIC SUPPORT FOR CURTAIN. COORDINATE WITH VENDOR FOR TOTAL NUMBER & LOCATION OF SUPPORTS.
- A1.20 EXISTING MILLWORK COUNTER TOP TO BE MODIFIED TO SUIT NEW ROOM CONFIGURATION. PROVIDE IN WALL BACKING IN NEW WALL AND 2X2 WD BLOCKING BELOW COUNTER TOP AS REQUIRED. PROVIDE CONT COLOUR MATCHING CAULKING WHERE MILLWORK MEETS WALL.
- A1.21 EXISTING LEADED FRAME TO REMAIN. ALL DOOR HARDWARE TO BE REMOVED. PATCH AND REPAIR ALL EDGE BORES (HINGES, STRIKE ETC) TO MAKE SMOOTH. FRAME TO BE PAINTED PTS.
- A1.22 EXISTING WINDOW FRAME TO BE PAINTED PTS.
- A1.23 PART OF NEW WALL TO BE BUILT DURING PHASE 2A - CONTROL ROOM. 6 MIL POLY ON OUTSIDE OF PROJECT AREA SEALED TO EXISTING FLOOR, WALL AND CEILING FOR INFECTION CONTROL UNTIL PHASE 2C.



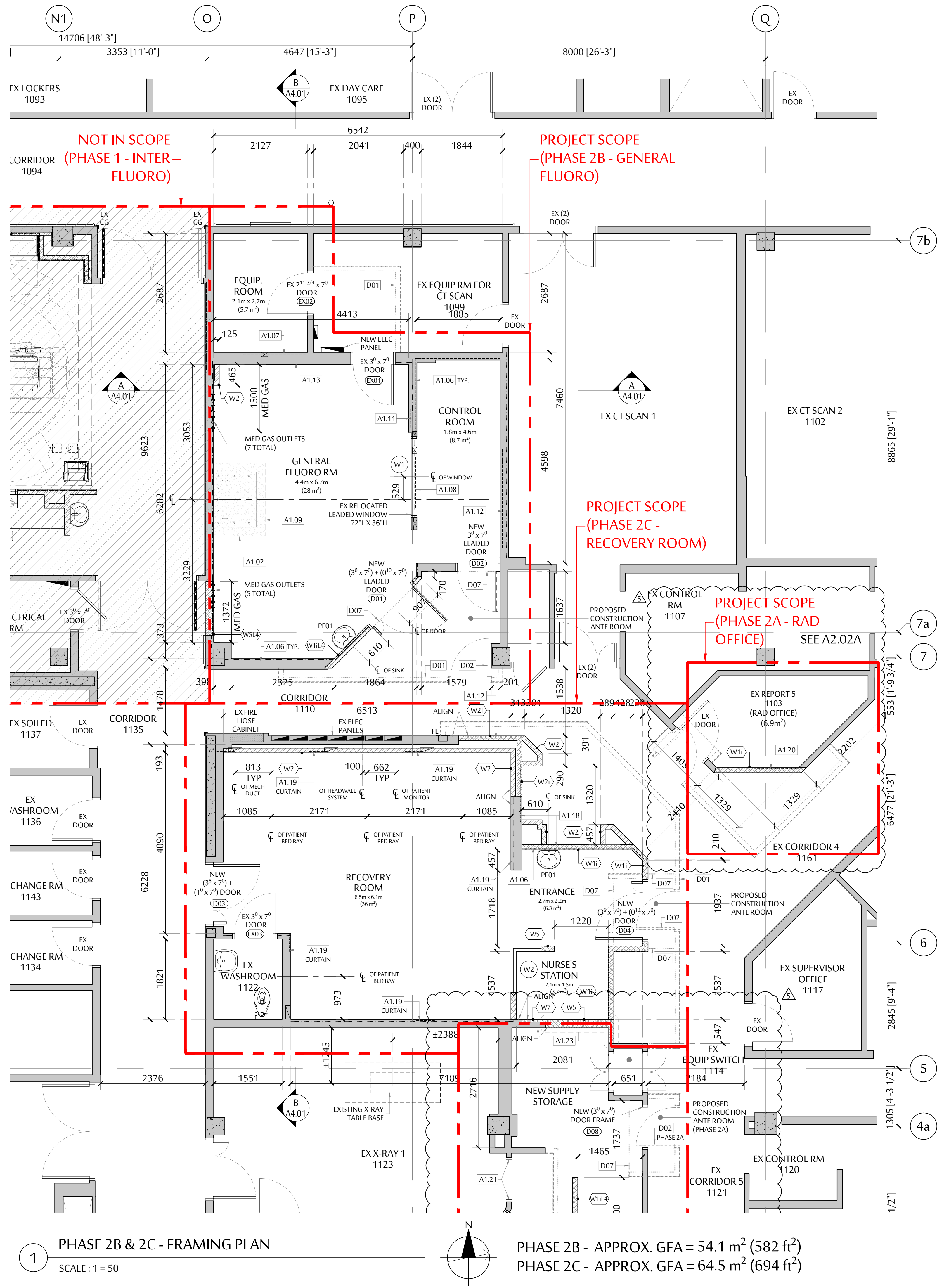
PHASE 2A - RAD OFFICE
FRAMING PLAN
SCALE: 1 = 50



PHASE 2A - CLERICAL SPACE
FRAMING PLAN
SCALE: 1 = 50



PHASE 2A - CONTROL ROOM
FRAMING PLAN
SCALE: 1 = 50



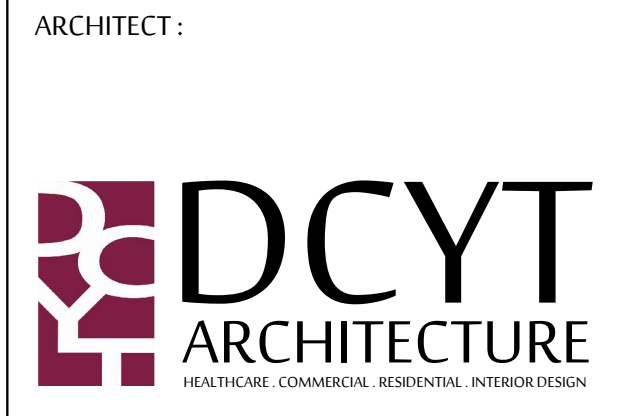
1 PHASE 2B & 2C - FRAMING PLAN
SCALE: 1 = 50

PHASE 2B - APPROX. GFA = 54.1 m² (582 ft²)
PHASE 2C - APPROX. GFA = 64.5 m² (694 ft²)

- PLUMBING FIXTURE LEGEND**
REFER TO PLUMB DWGS FOR DETAILS OF PLUMB FIXTURES
- PF01 NEW WALL MOUNTED HAND WASHING SINK WITH HANDS FREE FAUCET
 - PF02 NEW STAINLESS STEEL DROP-IN SINK WITH WATER FILTER

- CONSTRUCTION GENERAL NOTES**
- ALL EXISTING AND NEW PENETRATIONS THROUGH FIRE RATED WALLS & FLOORS SHALL BE FIRESTOPPED & SMOKE SEALED AS REQ'D TO MAINTAIN NECESSARY FIRE RATING. FIRESTOPPING MUST BE PERFORMED WITHOUT DELAY AS SOON AS THEY ARE OPENED, TO PREVENT SPREAD OF FIRE AND SMOKE DURING CONSTRUCTION.
 - REPAIR, PATCH AND SKIM COAT AND LEVEL EXISTING CONC. SLAB THROUGHOUT PROJECT AREA PER EQUIPMENT MANUF. SPECIFICATION BEFORE INSTALLATION OF NEW FLOOR FINISHES.
 - EXISTING GWB WALLS SHOWN TO REMAIN SHALL BE SKIM COATED AND SANDED SMOOTH BEFORE RECEIVING PAINT.
 - REMOVE, REPAIR & REFINISH EX DRYWALL AS REQ'D FOR INSTALLATION OF NEW MECH & ELEC PIPES, CONDUITS & EQUIPMENT.
 - STRUCTURAL DESIGN FOR NEW STL LINTEL & CONC SLAB TRENCHING & REPLACEMENT, IF ANY, SHALL BE PERFORMED BY A LICENSED STRUCT ENG & PAID FOR BY CONTRACTOR.
 - PATCH AND REFINISH DRYWALL WHERE EX M&E WALL OUTLETS, PENETRATIONS & EQUIPMENT ARE REMOVED AND DISCARDED.
 - PROVIDE BACKING ON WALLS FOR MILLWORK, HANDRAILS, CHAIR RAILS, BATHROOM ACCESSORIES, M&E FIXTURES AND ANY EQUIP AS REQUIRED. SEE M&E AND EQUIP DWGS FOR BACKING LOCATIONS AND REQUIREMENTS.
 - FOR NEW LEAD LINED WALL, LEAD LINE ALL NEW AND EX TO REMAIN WALLS, OUTLETS, PENETRATIONS, PIPES, AND DUCT WORK TO MAINTAIN CONTINUITY OF SHIELDING - SEE SPEC SECTION 130900 RADIATION PROTECTION.
 - SKIM COAT ALL EXISTING CONC FLOOR TO RECEIVE NEW FLOORING THROUGHOUT PROJECT AREA.
 - REPAIR EX SPRAY THERMAL INSULATION BELOW CONC SLAB FOR ALL NEW PIPE AND CONDUIT PENETRATIONS TO BELOW, IF APPLICABLE.

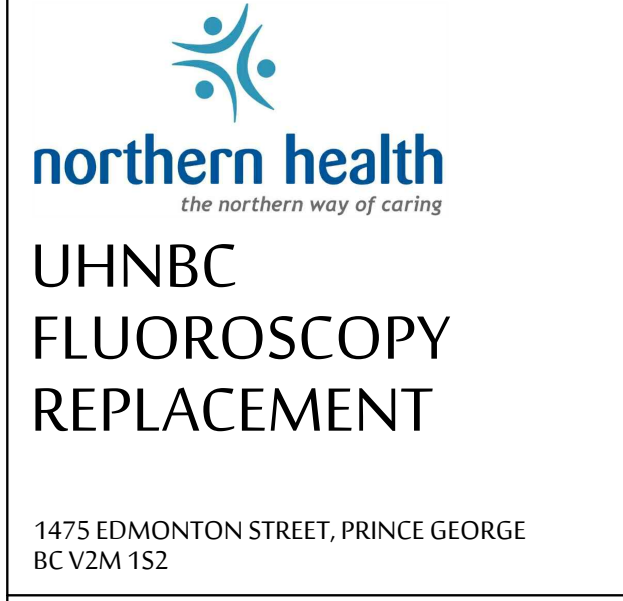
- CONSTRUCTION KEY NOTES**
- ALL WORKS BELOW ARE NEW INCLUDING SUPPLY & INSTALLATION OF MATERIALS U.N.O.
 - A1.01 SEAL DOOR EDGES TO MEET INFECTION CONTROL REQUIREMENT DURING CONSTRUCTION
 - A1.02 LEVEL FLOOR WITH SELF-LEVELING FLOOR UNDERLAYMENT TO MEET EQUIPMENT VENDOR FLATNESS AND LEVELNESS REQUIREMENTS - SEE EQUIPMENT DWGS FOR EXTENT
 - A1.03 PROVIDE NEW HAND RAIL & LOWER WALL BUFFER INFILL TO MATCH EXISTING C/W/IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
 - A1.04 RESERVED
 - A1.05 55" H WALL PROTECTION COVERING ABOVE WALL BASE
 - A1.06 PROVIDE IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING FOR UPPER CABINET (REMOVE EX GWB IF REQ'D)
 - A1.07 PROVIDE IN WALL 100mm HIGH FIRE RETARDANT TREATED PLYWOOD BACKING FOR ANCHORING OF SIEMENS ELECTRONICS CABINETS (REMOVE EX GWB IF REQ'D). BACKING TO BE FLUSH MOUNTED, INSTALLED 232mm AFF TO BOTTOM EDGE, AND MUST COVER THE ENTIRE WIDTH OF THE ELECTRONICS CABINET(S) PLUS MIN. 50mm ON EACH SIDE - SEE EQUIPMENT DWGS
 - A1.08 PROVIDE IN WALL 350mm HIGH FIRE RETARDANT TREATED PLYWOOD BACKING FOR ANCHORING OF SIEMENS CONTROL ROOM DISTRIBUTOR (REMOVE EX GWB IF REQ'D). BACKING TO BE FLUSH MOUNTED, INSTALLED 500mm AFF TO BOTTOM EDGE, AND MUST COVER THE ENTIRE WIDTH OF THE DISTRIBUTOR PLUS MIN. 50mm ON EACH SIDE - SEE EQUIPMENT DWGS
 - A1.09 PATIENT TABLE INSTALLATION PLATE TO BE ANCHORED TO CONCRETE FLOOR - SEE EQUIPMENT & STRUCT. DWGS
 - A1.10 - NEW ELEC CONDUITS - SEE ELEC & STRUCT DWGS FOR EXACT ROUTING AND DETAILS.
- FOR FLOOR, CONTRACTOR TO SCAN EXISTING CONC. FLOOR SLAB BEFORE CORING (IF CORING IS REQ'D).
- FOR WALL, CONTRACTOR TO CUT WALL AS REQ'D.
- FOR CEILING, CONTRACTOR TO REMOVE CEILING BELOW AS REQ'D.
- REPAIR AND MAKE GOOD ALL FLOORS, WALLS, AND CEILINGS TO MATCH EXISTING INCLUDING FIRE RATING & SEPARATION REQUIREMENTS AFTER COMPLETION OF ELECTRICAL WORK.
 - A1.11 PROVIDE NEW ROLLBOARD WALL MOUNT WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
 - A1.12 PROVIDE NEW WALL MOUNTED LEAD APRON HOOKS (TOTAL 8) WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
 - A1.13 PROVIDE NEW MEDICAL STORAGE CABINET (IF-EC11) WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING PER MANUFACTURER'S RECOMMENDATIONS & REQUIREMENTS (REMOVE EX GWB IF REQ'D) - SEE EQUIPMENT SCHEDULE FOR DETAILS
 - A1.14 PROVIDE NEW UPPER AND LOWER CRASH RAILS WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
 - A1.15 1" WIDE SHEET VINYL FLOOR RED WARNING STRIP
 - A1.16 PROVIDE IN WALL BACKING AS RECOMMENDED BY MANUFACTURER FOR WALL CHANNEL INSTALLATION (REMOVE EX GWB IF REQ'D)
 - A1.17 NEW PIPING/CONDUIT - SEE ELEC, MECH & SIEMENS DWGS FOR EXACT ROUTING & DETAILS.
- FOR FLOOR, CONTRACTOR TO SCAN EX CONC. FLOOR SLAB BEFORE CORING (IF CORING IS REQ'D).
- FOR WALL, CONTRACTOR TO CUT WALL AS REQ'D.
- FOR CEILING, CONTRACTOR TO REMOVE CEILING AS REQ'D.
- REPAIR AND MAKE GOOD ALL FLOORS, WALLS, AND CEILINGS TO MATCH EXISTING INCLUDING FIRE RATING & SEPARATION REQUIREMENTS AFTER COMPLETION OF WORK.
 - A1.18 PROVIDE IN WALL BACKING AS RECOMMENDED BY MANUFACTURER FOR EXISTING RELOCATED LOCKERS INSTALLATION (REMOVE EX GWB IF REQ'D)
 - A1.19 PROVIDE BACKING AT BOTH ENDS OF CURTAIN TRACK, INSTALLATION HEIGHT A.F.F. TO BE DETERMINED ON SITE



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NO.	REVISION	DATE	BY
12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
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10	TENDER ADDENDUM 5	JULY 26, 2021	RC
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8	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
5	ISSUED FOR BP SUBMISSION	MAY 7, 2021	RC
4	ISSUED FOR DESIGN REVISION 2 REVIEW	APR 21, 2021	RC
3	ISSUED FOR DESIGN REVISION 1 REVIEW	APR 19, 2021	RC
2	ISSUED FOR DD REVIEW	APR 9, 2021	RC
1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC

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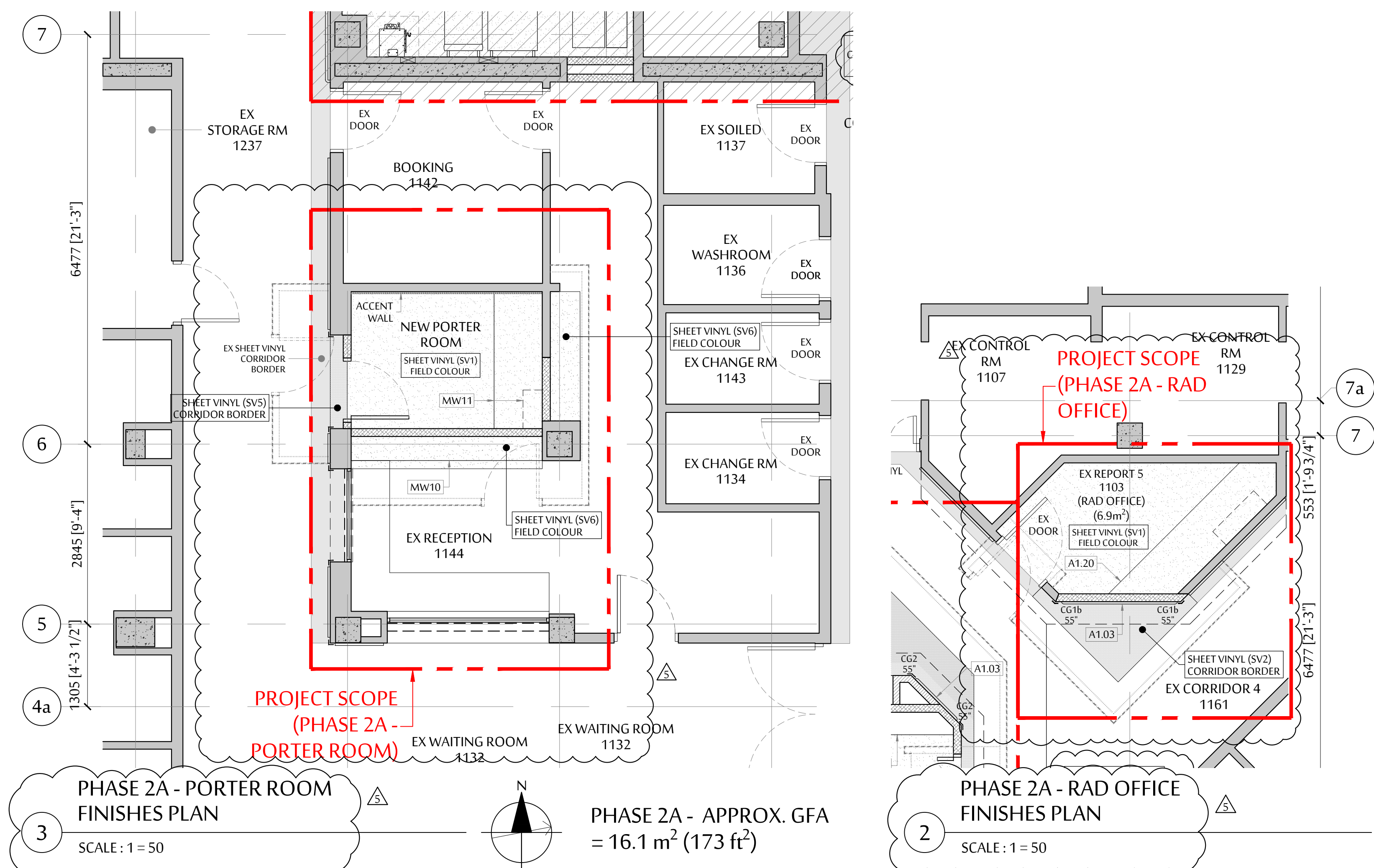
UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE BC V2M 1S2

PHASE 2 - GEN FLUORO LEVEL 1 FRAMING PLAN

SCALE: 1 : 50
DATE: OCTOBER 2020
DRAWN: RC
CHECKED: DC
JOB No.: DCYT2009

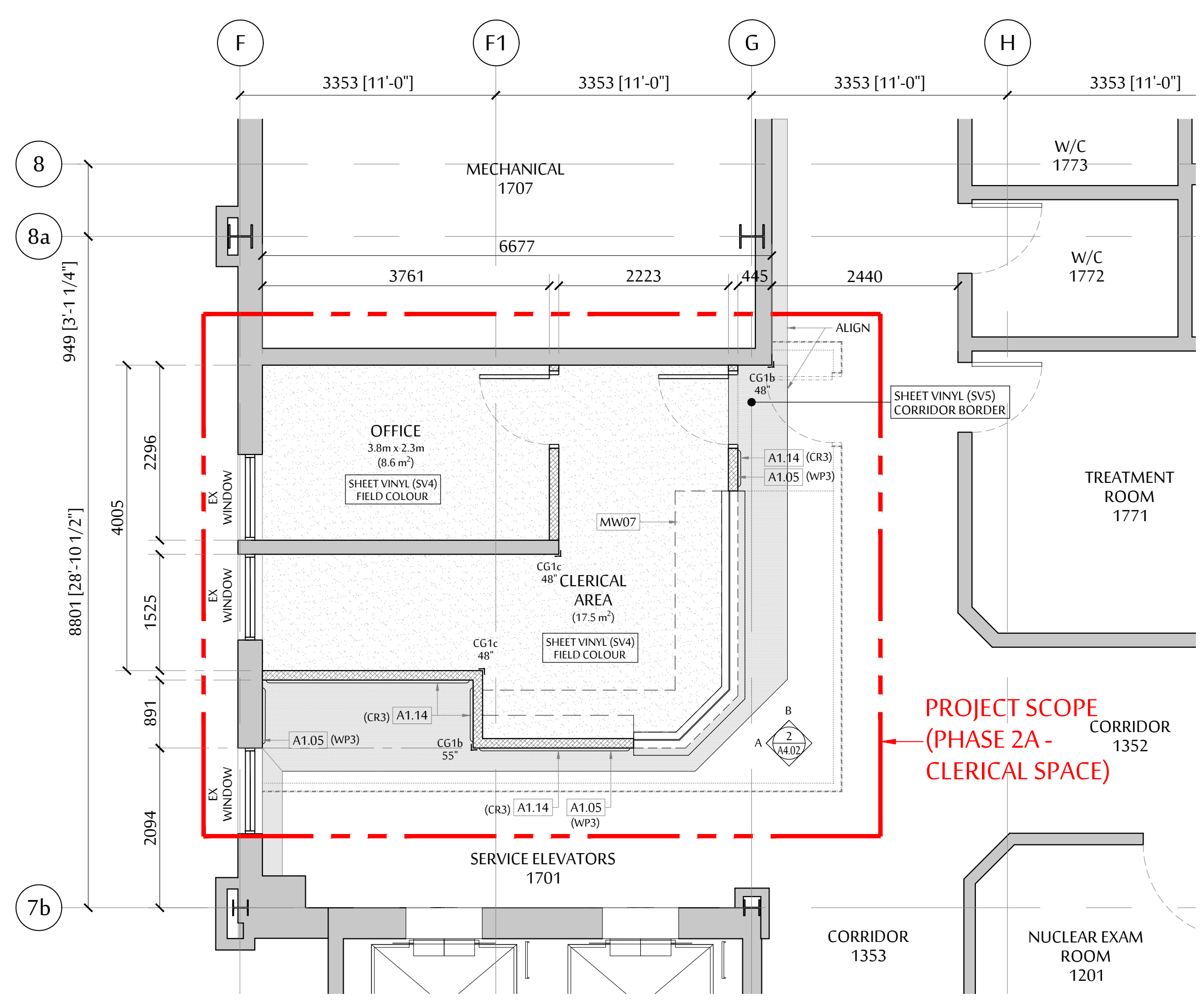
PHASE 2 A2.02B



PHASE 2A - PORTER ROOM FINISHES PLAN
SCALE: 1 = 50

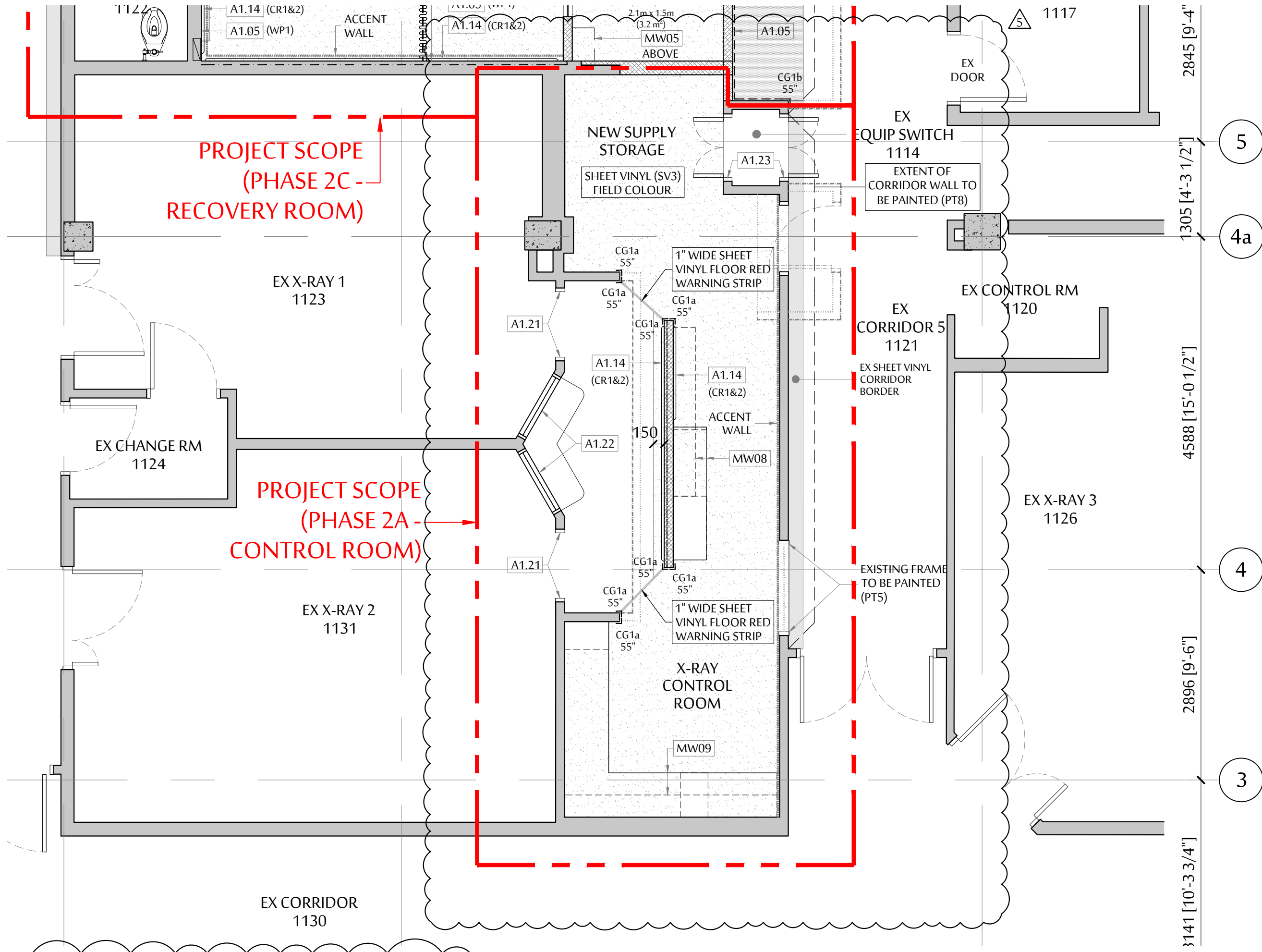
PHASE 2A - APPROX. GFA = 16.1 m² (173 ft²)

PHASE 2A - RAD OFFICE FINISHES PLAN
SCALE: 1 = 50



PHASE 2A - CLERICAL SPACE FINISHES PLAN
SCALE: 1 = 50

PHASE 2A - APPROX. GFA = 35.9 m² (386 ft²)



PHASE 2A - CONTROL ROOM FINISHES PLAN
SCALE: 1 = 50

PHASE 2A - APPROX. GFA = 29.5 m² (318 ft²)

CONSTRUCTION KEY NOTES

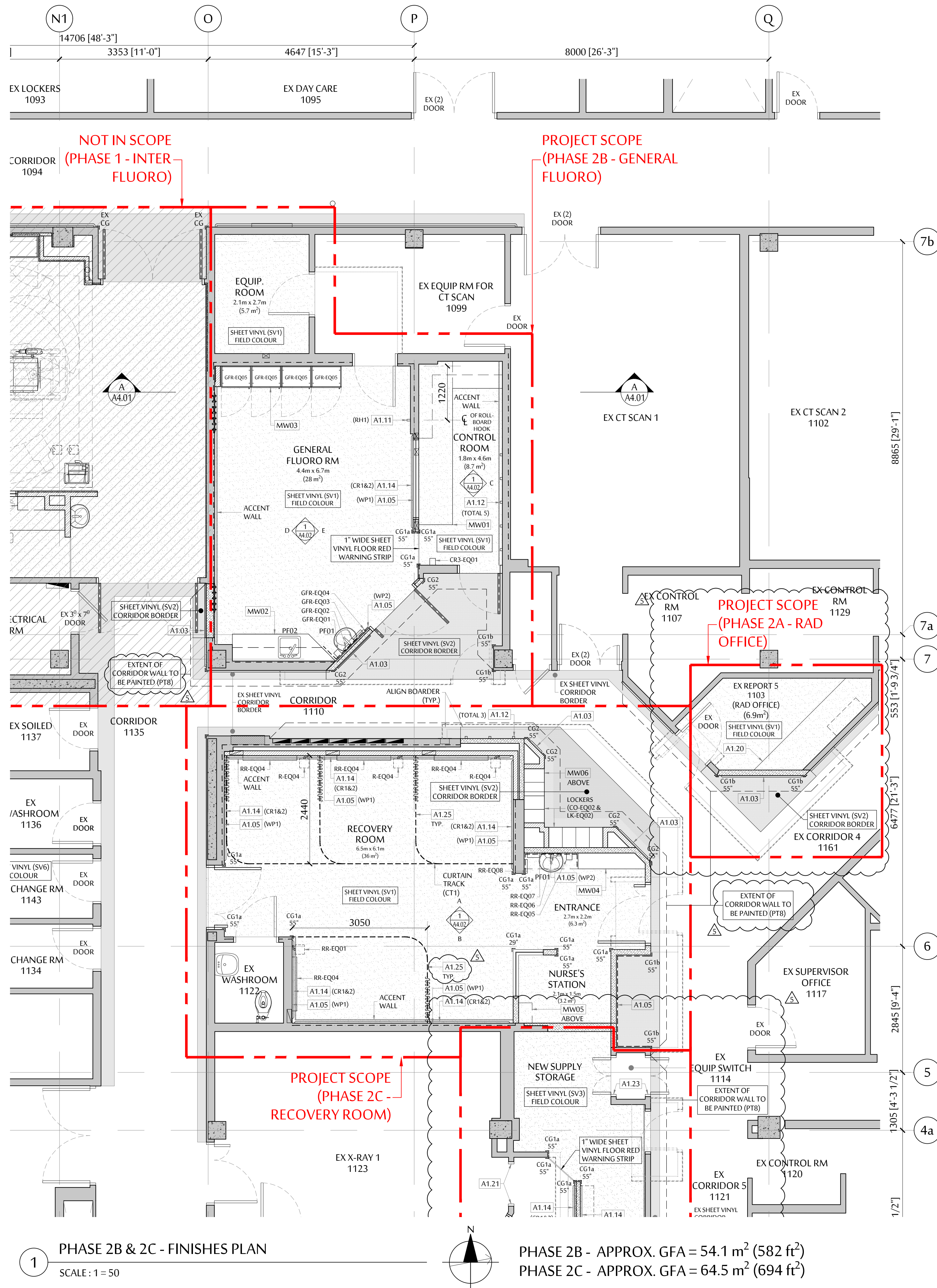
- ALL WORKS BELOW ARE NEW INCLUDING SUPPLY & INSTALLATION OF MATERIALS U.N.O.
- A1.01 SEAL DOOR EDGES TO MEET INFECTION CONTROL REQUIREMENT DURING CONSTRUCTION
- A1.02 LEVEL FLOOR WITH SELF-LEVELING FLOOR UNDERLAYMENT TO MEET EQUIPMENT VENDOR FLATNESS AND LEVELNESS REQUIREMENTS - SEE EQUIPMENT DWGS FOR EXTENT
- A1.03 PROVIDE NEW HAND RAIL & LOWER WALL BUFFER INFILL TO MATCH EXISTING C/W IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
- A1.04 RESERVED
- A1.05 55" H WALL PROTECTION COVERING ABOVE WALL BASE
- A1.06 PROVIDE IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING FOR UPPER CABINET (REMOVE EX GWB IF REQ'D)
- A1.07 PROVIDE IN WALL 100mm HIGH FIRE RETARDANT TREATED PLYWOOD BACKING FOR ANCHORING OF SIEMENS ELECTRONICS CABINETS (REMOVE EX GWB IF REQ'D). BACKING TO BE FLUSH MOUNTED, INSTALLED 232mm AFF TO BOTTOM EDGE, AND MUST COVER THE ENTIRE WIDTH OF THE ELECTRONICS CABINET(S) PLUS MIN. 50mm ON EACH SIDE - SEE EQUIPMENT DWGS
- A1.08 PROVIDE IN WALL 350mm HIGH FIRE RETARDANT TREATED PLYWOOD BACKING FOR ANCHORING OF SIEMENS CONTROL ROOM DISTRIBUTOR (REMOVE EX GWB IF REQ'D). BACKING TO BE FLUSH MOUNTED, INSTALLED 500mm AFF TO BOTTOM EDGE, AND MUST COVER THE ENTIRE WIDTH OF THE DISTRIBUTOR PLUS MIN. 50mm ON EACH SIDE - SEE EQUIPMENT DWGS
- A1.09 PATIENT TABLE INSTALLATION PLATE TO BE ANCHORED TO CONCRETE FLOOR - SEE EQUIPMENT & STRUCT. DWGS
- A1.10 - NEW ELEC CONDUITS: SEE ELEC & STRUCT DWGS FOR EXACT ROUTING AND DETAILS.
 - FOR FLOOR, CONTRACTOR TO SCAN EXISTING CONC. FLOOR SLAB BEFORE CORING (IF CORING IS REQ'D).
 - FOR WALL, CONTRACTOR TO CUT WALL AS REQ'D.
 - FOR CEILING, CONTRACTOR TO REMOVE CEILING BELOW AS REQ'D.
 - REPAIR AND MAKE GOOD ALL FLOORS, WALLS, AND CEILINGS TO MATCH EXISTING INCLUDING FIRE RATING & SEPARATION REQUIREMENTS AFTER COMPLETION OF ELECTRICAL WORK.
- A1.11 PROVIDE NEW ROLLBOARD WALL MOUNT WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
- A1.12 PROVIDE NEW WALL MOUNTED LEAD APRON HOOKS (TOTAL 8) WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
- A1.13 PROVIDE NEW MEDICAL STORAGE CABINET (IF REQ'D) WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING PER MANUFACTURER'S RECOMMENDATIONS & REQUIREMENTS (REMOVE EX GWB IF REQ'D) - SEE EQUIPMENT SCHEDULE FOR DETAILS
- A1.14 PROVIDE NEW UPPER AND LOWER CRASH RAILS WITH IN WALL FIRE RETARDANT TREATED PLYWOOD BACKING (REMOVE EX GWB IF REQ'D)
- A1.15 1" WIDE SHEET VINYL FLOOR RED WARNING STRIP
- A1.16 PROVIDE IN WALL BACKING AS RECOMMENDED BY MANUFACTURER FOR WALL CHANNEL INSTALLATION (REMOVE EX GWB IF REQ'D)
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- A1.19 PROVIDE BACKING AT BOTH ENDS OF CURTAIN TRACK. INSTALLATION HEIGHT A.F.F. TO BE DETERMINED ON SITE
- A1.20 EXISTING MILLWORK COUNTER TOP TO BE MODIFIED TO SUIT NEW ROOM CONFIGURATION. PROVIDE IN WALL BACKING IN NEW WALL AND 2X2 WD BLOCKING BELOW COUNTER TOP AS REQUIRED. PROVIDE CONT COLOUR MATCHING CAULKING WHERE MILLWORK MEETS WALL
- A1.21 EXISTING LEADED FRAME TO REMAIN. ALL DOOR HARDWARE TO BE REMOVED. PATCH AND REPAIR ALL EDGE BORES (HINGES, STRIKE ETC) TO MAKE SMOOTH. FRAME TO BE PAINTED PTS.
- A1.22 EXISTING WINDOW FRAME TO BE PAINTED PTS.
- A1.23 PART OF NEW WALL TO BE BUILT DURING PHASE 2A - CONTROL ROOMS 6 MIL POLY ON OUTSIDE OF PROJECT AREA SEALED TO EXISTING FLOOR, WALL AND CEILING FOR INFECTION CONTROL UNTIL PHASE 2C.
- A1.24 EXISTING DOOR & FRAME TO BE PAINTED PTS.
- A1.25 CURTAIN TO BE SUPPLIED & INSTALLED BY VENDOR. CONTRACTOR TO COORDINATE, SUPPLY & INSTALL SENSIC SUPPORT FOR CURTAIN. COORDINATE WITH VENDOR FOR TOTAL NUMBER & LOCATION OF SUPPORTS.

MILLWORK LEGEND

- SEE MILLWORK DRAWINGS FOR DETAILS
- MW01 CONTROL ROOM DESK WITH UPPER/BASE CABINETS
- MW02 GENERAL FLUOROSCOPY SINK COUNTER & UPPER CABINETS
- MW03 GENERAL FLUOROSCOPY STORAGE CABINET BASE & FILLER PANELS
- MW04 FULL HEIGHT CABINET
- MW05 NURSE'S STATION UPPER CABINET
- MW06 UPPER CABINET ABOVE LOCKERS
- MW07 CLERICAL DESK WITH UPPER/BASE CABINETS
- MW08 X-RAY CONTROL ROOM COUNTER TOP WITH UPPER/BASE CABINETS
- MW09 X-RAY CONTROL ROOM DESK WITH UPPER/BASE CABINETS
- MW10 RECEPTION COUNTER WITH SHELVING
- MW11 PORTER ROOM DESK WITH UPPER/BASE CABINETS

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1 PHASE 2B & 2C - FINISHES PLAN
SCALE: 1 = 50

PHASE 2B - APPROX. GFA = 54.1 m² (582 ft²)
PHASE 2C - APPROX. GFA = 64.5 m² (694 ft²)

- CONSTRUCTION KEY NOTES**
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 - A1.04 RESERVED
 - A1.05 55" H WALL PROTECTION COVERING ABOVE WALL BASE
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 - A1.09 PATIENT TABLE INSTALLATION PLATE TO BE ANCHORED TO CONCRETE FLOOR - SEE EQUIPMENT & STRUCT. DWGS
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- MILLWORK LEGEND**
- SEE MILLWORK DRAWINGS FOR DETAILS
- MW01 CONTROL ROOM DESK WITH UPPER/BASE CABINETS
 - MW02 GENERAL FLUOROSCOPY SINK COUNTER & UPPER CABINETS
 - MW03 GENERAL FLUOROSCOPY STORAGE CABINET BASE & FILLER PANELS
 - MW04 FULL HEIGHT CABINET
 - MW05 NURSE'S STATION UPPER CABINET
 - MW06 UPPER CABINET ABOVE LOCKERS
 - MW07 CLERICAL DESK WITH UPPER/BASE CABINETS
 - MW08 X-RAY CONTROL ROOM COUNTER TOP WITH UPPER/BASE CABINETS
 - MW09 X-RAY CONTROL ROOM DESK WITH UPPER/BASE CABINETS
 - MW10 RECEPTION COUNTER WITH SHELIVING
 - MW11 PORTER ROOM DESK WITH UPPER/BASE CABINETS

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10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	TENDER ADDENDUM 2	JUNE 16, 2021	RC
8	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
5	ISSUED FOR BP SUBMISSION	MAY 7, 2021	RC
4	ISSUED FOR DESIGN REVISION 2 REVIEW	APR 21, 2021	RC
3	ISSUED FOR DESIGN REVISION 1 REVIEW	APR 19, 2021	RC
2	ISSUED FOR DD REVIEW	APR 9, 2021	RC
1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC
No.	REVISION	DATE	BY

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FLUOROSCOPY
REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
LEVEL 1
FINISHES & FIXT. PLAN

SCALE:
1 : 50

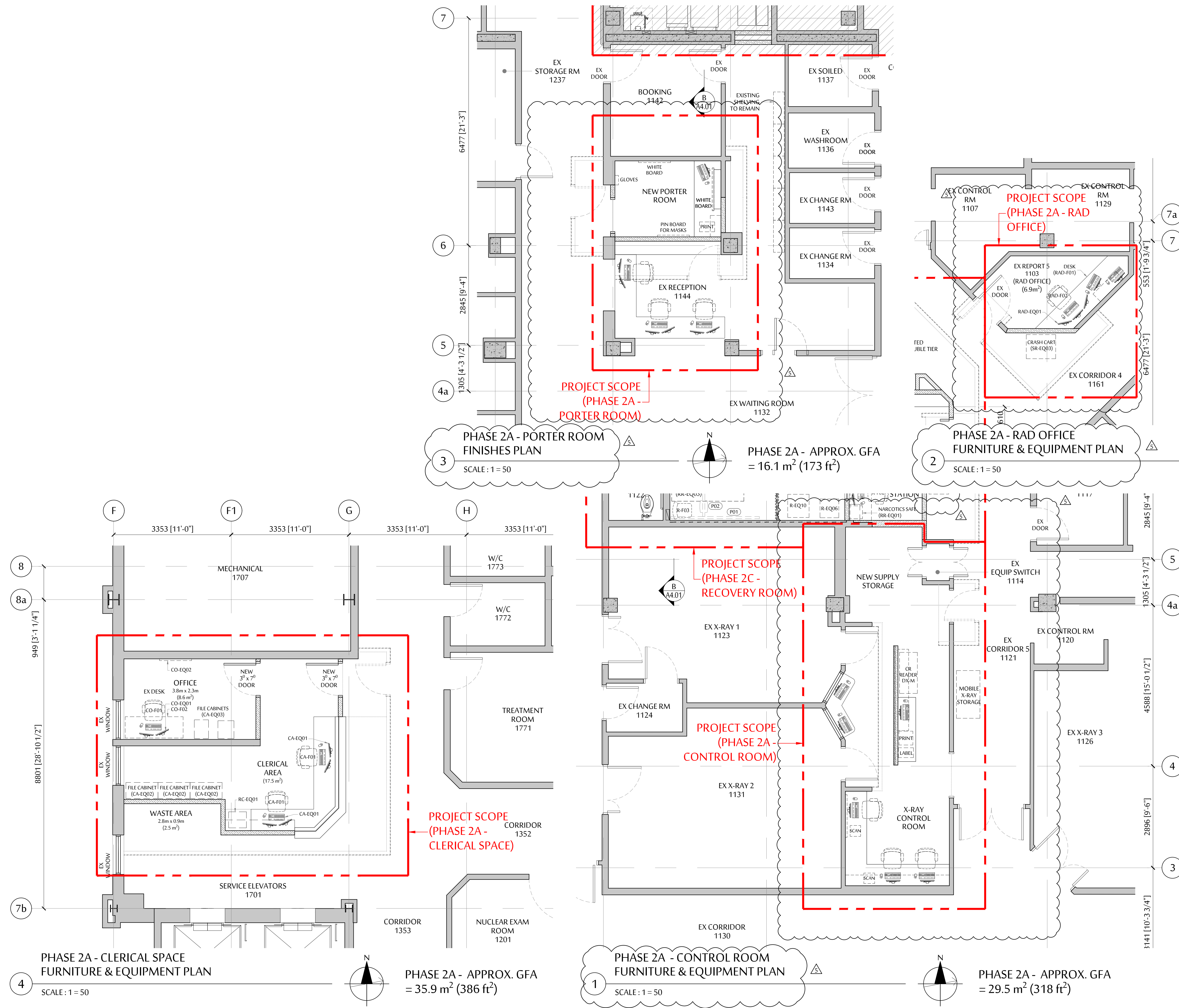
DATE:
OCTOBER 2020

DRAWN:
RC

CHECKED:
DC

JOB No.:
DCYT2009

PHASE 2
A2.03B



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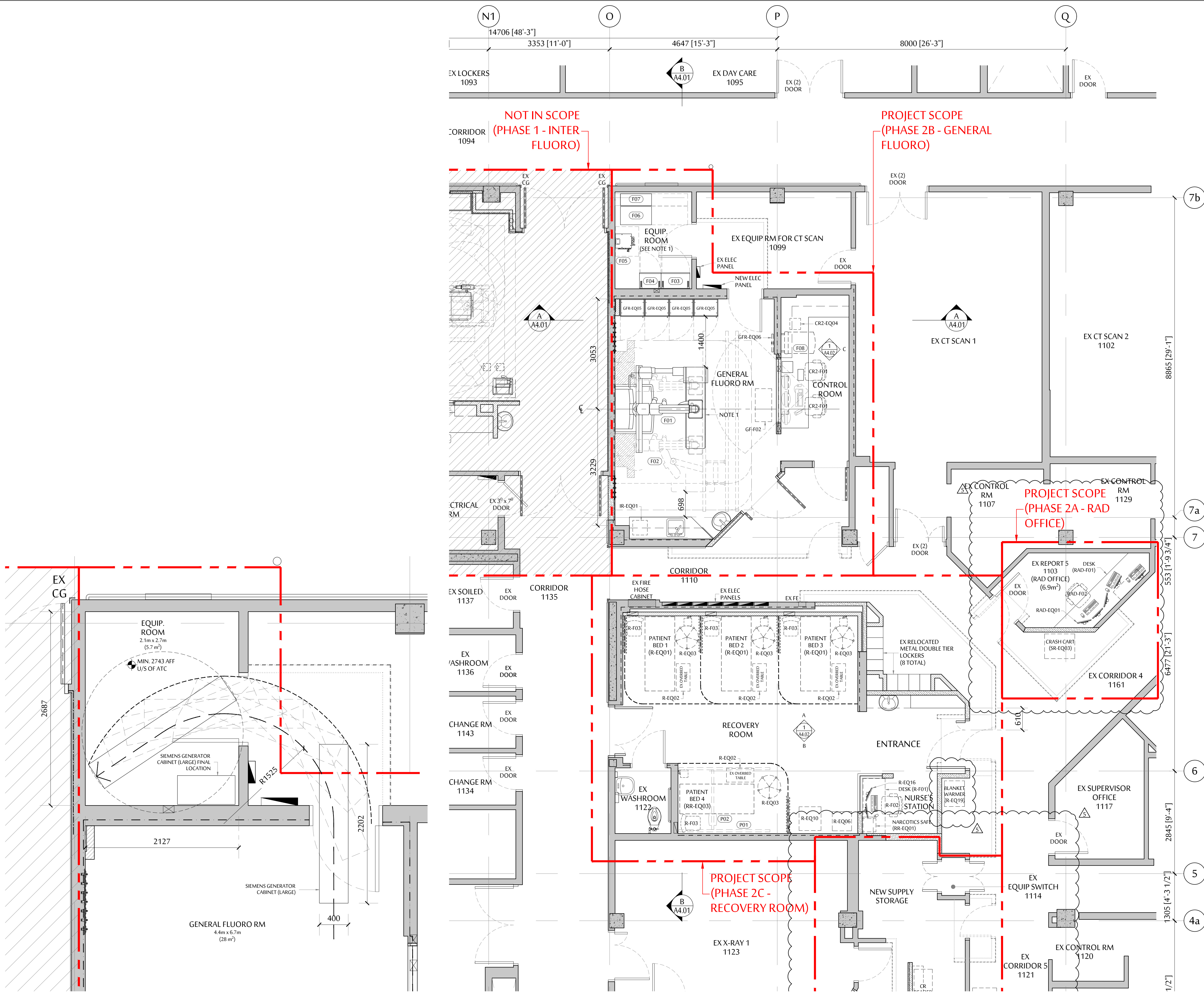
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FLUOROSCOPY
REPLACEMENT**

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

**PHASE 2 - GEN FLUORO
LEVEL 1
FURN. & EQUIP. PLAN**

SCALE:
1 : 50
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

**PHASE 2
A2.04A**



PHASE 2B - SIEMENS EQUIPMENT DELIVERY PLAN

SCALE: 1 = 25

PHASE 2B & 2C - FURNITURE & EQUIPMENT PLAN

SCALE: 1 = 50

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PHASE 2C - APPROX. GFA = 64.5 m² (694 ft²)

- EQUIPMENT LEGEND
- SIEMENS AXIOM ARTIS ZEE MP
GENERAL FLUOROSCOPY
(TO BE SUPPLIED BY EQUIPMENT VENDOR - UNLESS
NOTED OTHERWISE)
- (F01) AXIOM ZEE MP STAND (RIGHT-SIDE VERSION)
(F02) DCS 2 CEILING MOUNTED MONITOR SYSTEM
(F03) GENERATOR CABINET
(F04) SYSTEM CONTROL CABINET
(F05) COOLING CABINET
(F06) TRANSFORMER CABINET
(F07) UPS
(F08) IMAGE SYSTEM CABINET
- GULDMANN PATIENT LIFT
RECOVERY ROOM
(TO BE SUPPLIED BY EQUIPMENT VENDOR - UNLESS
NOTED OTHERWISE)
- (P01) GULDMANN RAIL
(P02) HOIST
- NOTE 1 - FOR DELIVERY OF GENERAL FLUOROSCOPY
EQUIPMENT:
- A. CONTRACTOR TO COORDINATE WITH HOSPITAL 72
HOURS IN ADVANCE FOR DELIVERY OF EQUIPMENT.
- B. CONTRACTOR TO MAKE GOOD EXTERIOR AND
INTERIOR WALLS, FLOORS AND CEILING, IF DAMAGED
DURING EQUIPMENT DELIVERY.
- C. CONTRACTOR TO PROVIDE PROTECTIVE COVERING
FOR WALL, FLOOR AND CEILING AS REQUIRED BY
HOSPITAL ALONG THE DELIVERY ROUTE.

ARCHITECT :



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BC V2M 1S2

PHASE 2 - GEN FLUORO
LEVEL 1
FURN. & EQUIP. PLAN

SCALE:
1 : 50
DATE:
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PHASE 2
A2.04B



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ARCHITECT :

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WORK OUTSIDE PROJECT AREA GENERAL NOTES

- OBTAIN AUTHORIZATION FROM HOSPITAL TO PERFORM WORK OUTSIDE PROJECT AREA PRIOR TO COMMENCEMENT OF WORK
- ALL WORK OUTSIDE PROJECT AREA AND HOARDING AREA TO BE PERFORMED AFTER REGULAR HOURS, UNLESS AUTHORIZED BY HOSPITAL OTHERWISE
- SEE M&E DWGS FOR M&E SCOPE OF WORK
- REMOVE AND REINSTALL CLNG TILES AND GRID AS REQ'D TO PERFORM M&E WORK
- REPLACE CLNG TILES WITH NEW TO MATCH EX IF DAMAGED DURING CONSTRUCTION
- PERFORM SCANNING OF CONC SLAB TO VERIFY EXISTING M&E SERVICES & REBAR INSIDE SLAB BEFORE CORING OF SLAB
- PROVIDE FIRE STOPPING TO MAINTAIN FIRE SEPARATION REQ'D FOR ALL NEW FLOOR AND WALL PENETRATIONS
- REMOVE, REPAIR & REFINISH WALL AND FLOOR IF REQ'D FOR M&E WORK
- REMOVE AND REPAIR EX UNDERSLAB THERMAL INSULATION IF REQ'D FOR INSTALLATION OF NEW M&E SERVICES - SEE M&E DWGS FOR EXTENT OF WORK
- FOR M&E WORK EXTENDING BELOW THE PROJECT AREA, CONTRACTOR TO REMOVE, REPAIR & REFINISH EXISTING CEILING AS REQ'D
- PROTECT EXISTING FLOOR FINISHES ALONG PATH OF TRAVEL FROM ELEVATOR LOBBY TO PROJECT AREA

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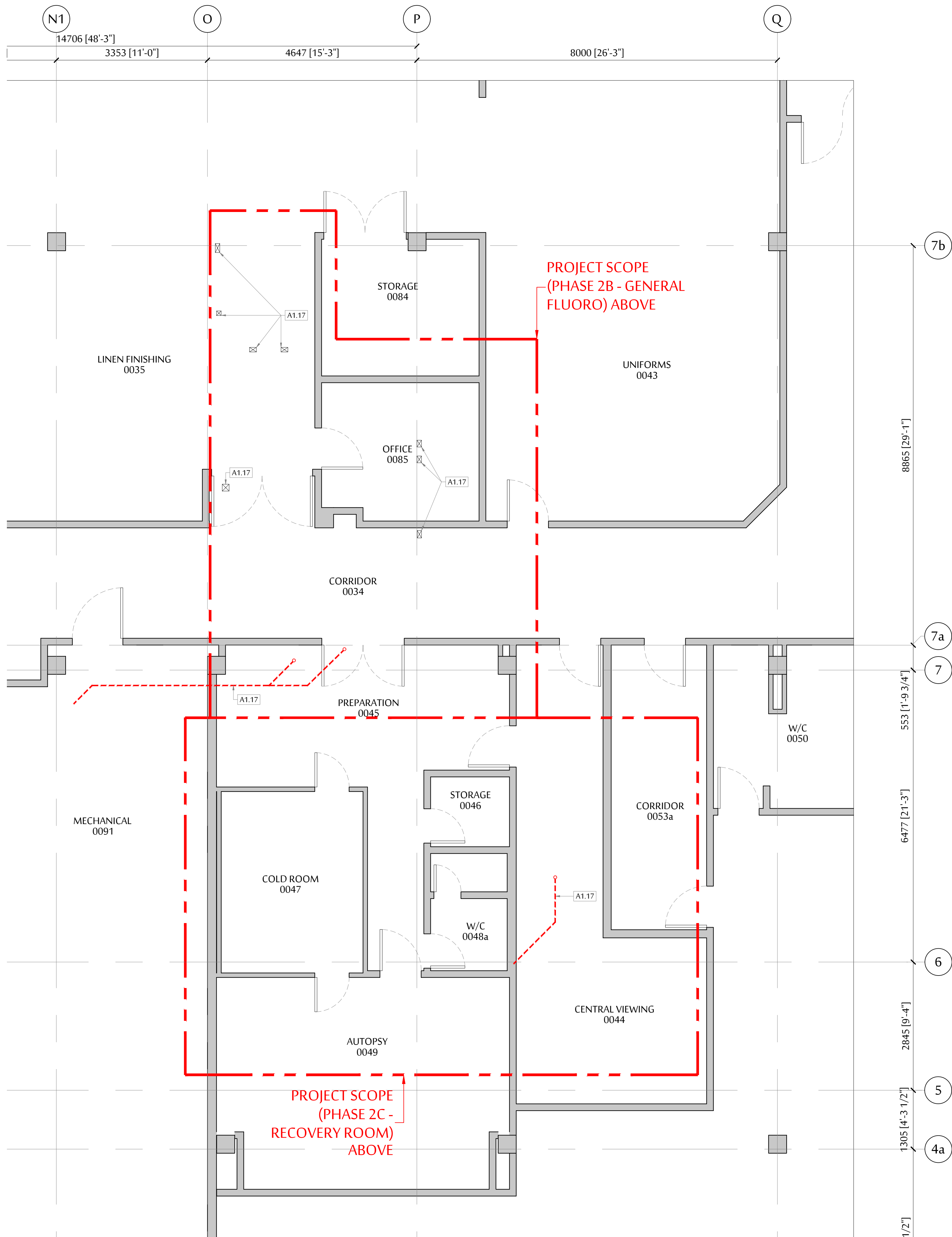
UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE BC V2M 1S2

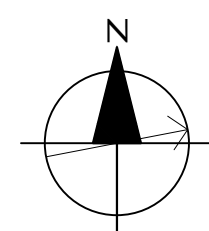
PHASE 2 - GEN FLUORO LEVEL 1 SCOPE OF WORK

SCALE: 1 : 50
DATE: OCTOBER 2020
DRAWN: RC
CHECKED: DC
JOB No.: DCYT2009

PHASE 2 A2.05



1 PHASE 2B & 2C - LEVEL 0 - SCOPE OF WORK
SCALE: 1 = 50



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 - A1.22 EXISTING WINDOW FRAME TO BE PAINTED PTS.
 - A1.23 PART OF NEW WALL TO BE BUILT DURING PHASE 2A - CONTROL ROOM. 5 MIL POLY ON OUTSIDE OF PROJECT AREA SEALED TO EXISTING FLOOR, WALL AND CEILING FOR INFECTION CONTROL UNTIL PHASE 2C.
 - A1.24 EXISTING DOOR & FRAME TO BE PAINTED PTS.
 - A1.25 CURTAIN TO BE SUPPLIED & INSTALLED BY VENDOR. CONTRACTOR TO COORDINATE, SUPPLY & INSTALL SEISMIC SUPPORT FOR CURTAIN. COORDINATE WITH VENDOR FOR TOTAL NUMBER & LOCATION OF SUPPORTS.

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WORK OUTSIDE PROJECT AREA GENERAL NOTES

- OBTAIN AUTHORIZATION FROM **HOSPITAL** TO PERFORM WORK OUTSIDE PROJECT AREA PRIOR TO COMMENCEMENT OF WORK
- ALL WORK OUTSIDE PROJECT AREA AND HOARDING AREA TO BE PERFORMED AFTER REGULAR HOURS, UNLESS AUTHORIZED BY **HOSPITAL** OTHERWISE
- SEE M&E DWGS FOR M&E SCOPE OF WORK
- REMOVE AND REINSTALL CLNG TILES AND GRID AS REQ'D TO PERFORM M&E WORK
- REPLACE CLNG TILES WITH NEW TO MATCH EX IF DAMAGED DURING CONSTRUCTION
- PERFORM SCANNING OF CONC SLAB TO VERIFY EXISTING M&E SERVICES & REBAR INSIDE SLAB BEFORE CORING OF SLAB
- PROVIDE FIRE STOPPING TO MAINTAIN FIRE SEPARATION REQ'D FOR ALL NEW FLOOR AND WALL PENETRATIONS
- REMOVE, REPAIR & REFINISH WALL AND FLOOR IF REQ'D FOR M&E WORK
- REMOVE AND REPAIR EX UNDERSLAB THERMAL INSULATION IF REQ'D FOR INSTALLATION OF NEW M&E SERVICES - SEE M&E DWGS FOR EXTENT OF WORK
- FOR M&E WORK EXTENDING BELOW THE PROJECT AREA, CONTRACTOR TO REMOVE, REPAIR & REFINISH EXISTING CEILING AS REQ'D
- PROTECT EXISTING FLOOR FINISHES ALONG PATH OF TRAVEL FROM ELEVATOR LOBBY TO PROJECT AREA

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5	NOT ISSUED	-	-
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
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1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
LEVEL 0
SCOPE OF WORK

SCALE:
1 : 50

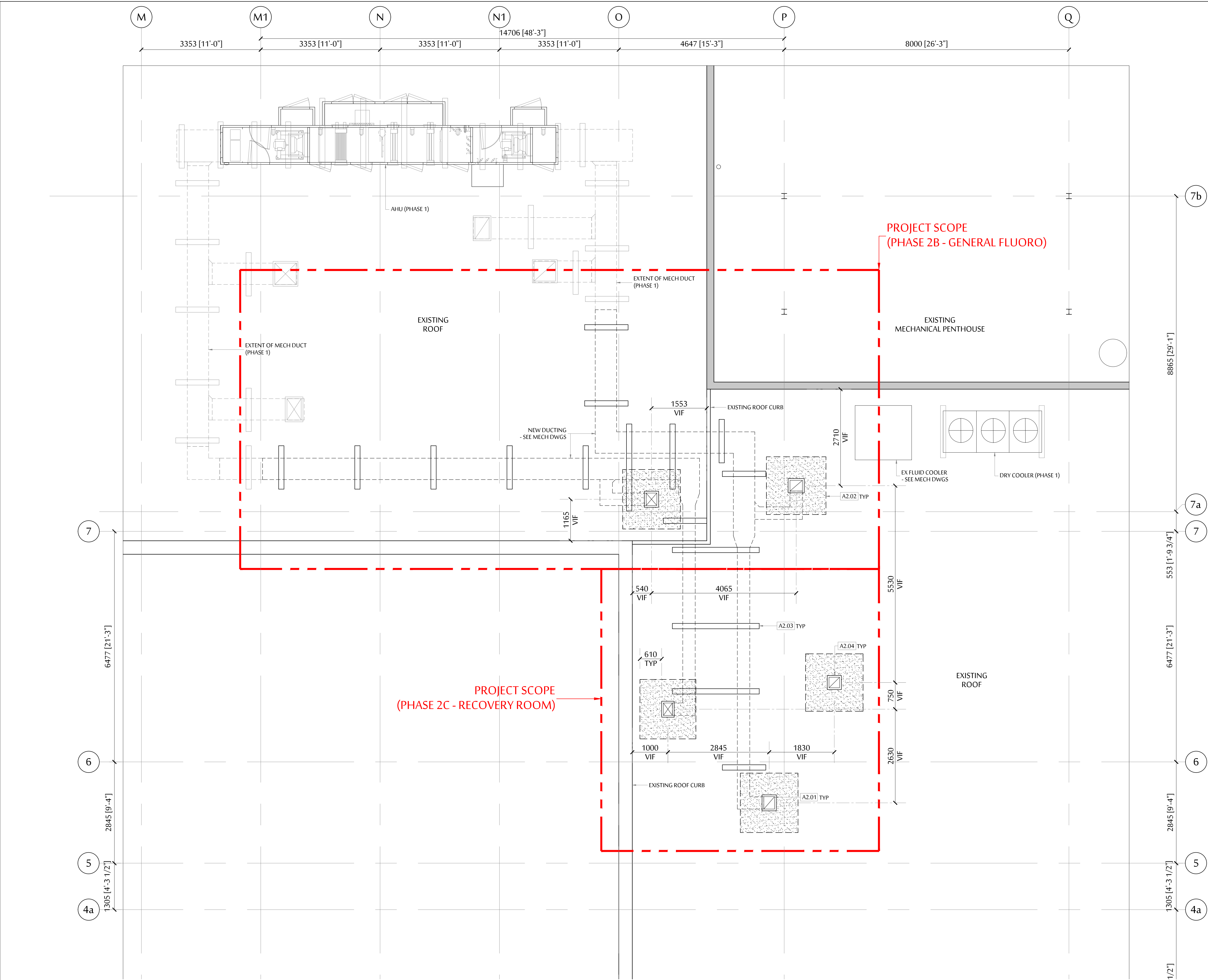
DATE:
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RC

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DC

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DCYT2009

PHASE 2
A2.06



- ROOF GENERAL NOTES**
1. LOCATION OF EXISTING MECHANICAL & PLUMBING EQUIPMENT ON ROOF ARE APPROXIMATE ONLY, EXACT LOCATION TO BE DETERMINED ON SITE.
 2. NOT ALL MECHANICAL & PLUMBING EQUIPMENT ARE SHOWN ON ROOF.
 3. CONTRACTOR TO VERIFY OTHER M&E EQUIPMENT ON ROOF IF REQUIRED.
 4. ROOF PLAN AND ELEVATION SHOWN ON THIS DRAWING ARE EXISTING EXCEPT FOR WORK NOTED AS NEW (ALSO SEE STRUCT. MECH AND ELEC DWGS FOR SCOPE OF WORK)
 5. CONTRACTOR TO TAKE PRECAUTION & ALL MEASURES TO AVOID ANY DAMAGE TO EX. BLDG. FINISHES AND BLDG ENVELOPE COMPONENTS.
 6. CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY ANCHORS AND SUPPORTS FOR THE DELIVERY OF MECH EQUIP.
 7. OBTAIN APPROVAL FROM HOSPITAL FOR ANY ATTACHMENTS TO THE EX. BLDG. SYSTEM OF STRUCTURE. SEE STRUCT. DWGS. FOR ANY ADDITIONAL REQUIREMENTS.
 8. SUPPLY AND INSTALL ROOF CURBS FOR MECH EQUIP TO BE BY MECH CONTRACTOR - SEE MECH DWGS
 9. REPAIR AND INSTALL NEW ROOF SYSTEM AROUND ALL SIDES OF ROOF CURBS, INCLUDING CAP FLASHINGS TO BE PROVIDED BY ROOFING CONTRACTOR.
 10. ROOFING CONTRACTOR TO PROVIDE LABOR & MATERIAL WARRANTY TO MATCH EXISTING ROOF SYSTEM.
 11. ROOFING CONTRACTOR TO BE A CERTIFIED RCBC MEMBER IN GOOD STANDING.

- ROOF CONSTRUCTION KEY NOTES**
- REFER TO MECH AND ELEC DWGS FOR M&E SCOPE OF WORK
- A2.01 REMOVE EX ROOF INSUL & WATERPROOFING AS REQ'D. CUT AND/OR CORE EX CONC SLAB FOR INSTALLATION OF NEW M&E EQUIP
 - A2.02 REPAIR EX ROOF INSUL TO MATCH EX. REPAIR AND INSTALL WATERPROOFING UP PIPES, CONDUITS, DUCTS AND EQUIP CURBS
 - A2.03 SLEEPERS FOR MECH EQUIP - SEE DETAIL 8/A5.04 & STRUCT DWGS
 - A2.04 NEW MECH DUCTWORK PENETRATING EX CONC SLAB - SEE MECH DWGS - SEE DETAIL 11/A5.04

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7	ISSUED FOR TENDER	JUNE 4, 2021	RC
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5	ISSUED FOR BP SUBMISSION	MAY 7, 2021	RC
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
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**PHASE 2 - GEN FLUORO
ROOF PLAN**

SCALE:
1:50
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

**PHASE 2
A2.07**

ARCHITECT :



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CEILING LEGEND

SEE M&E DWGS FOR M&E CLNG FIXTURE DETAILS.
ALL EQUIPMENT SHOWN AS NEW UNLESS OTHERWISE NOTED

RMV EXISTING EQUIP TO BE REMOVED
RLC EXISTING EQUIP TO BE RELOCATED
R&R EXISTING EQUIP TO BE REMOVED & REINSTALLED

EXISTING CLNG TO REMAIN (SHADED)

SUSP CLNG GRID TO BE DEMO

SUSP CLNG GRID

GYP SUM WALL BOARD CEILING

24" X 24" SUPPLY AIR DIFFUSER

24" X 24" RETURN AIR DIFFUSER

24" X 24" RETURN AIR DIFFUSER

12" X 24" RETURN AIR DIFFUSER

LINEAR SUPPLY AIR DIFFUSER (LSA)

LINEAR RETURN AIR DIFFUSER (LRA)

300 X 250 LOW LEVEL EXHAUST DIFFUSER

250 X 400 LOW LEVEL EXHAUST DIFFUSER

12" X 12" EXHAUST DIFFUSER

12" X 24" EXHAUST DIFFUSER

CLNG MTD RECESSED LED DOWNLIGHT

CLNG MTD RECESSED LED WALL WASHER

610 X 610 INDIRECT LED LIGHT BOX

610 X 1220 INDIRECT LED LIGHT BOX

305 X 1220 LED LIGHT BOX WITH PARABOLIC DIFFUSER

TRACK LIGHT

RECESSED CEILING SPEAKER

SMOKE ALARM

EXIT SIGN

EMERGENCY LIGHT

RECESSED TYPE SPRINKLER HEAD

ATC SET OUT POINT

SET ATC TO CENTRE OF ROOM

SECURITY CAMERA

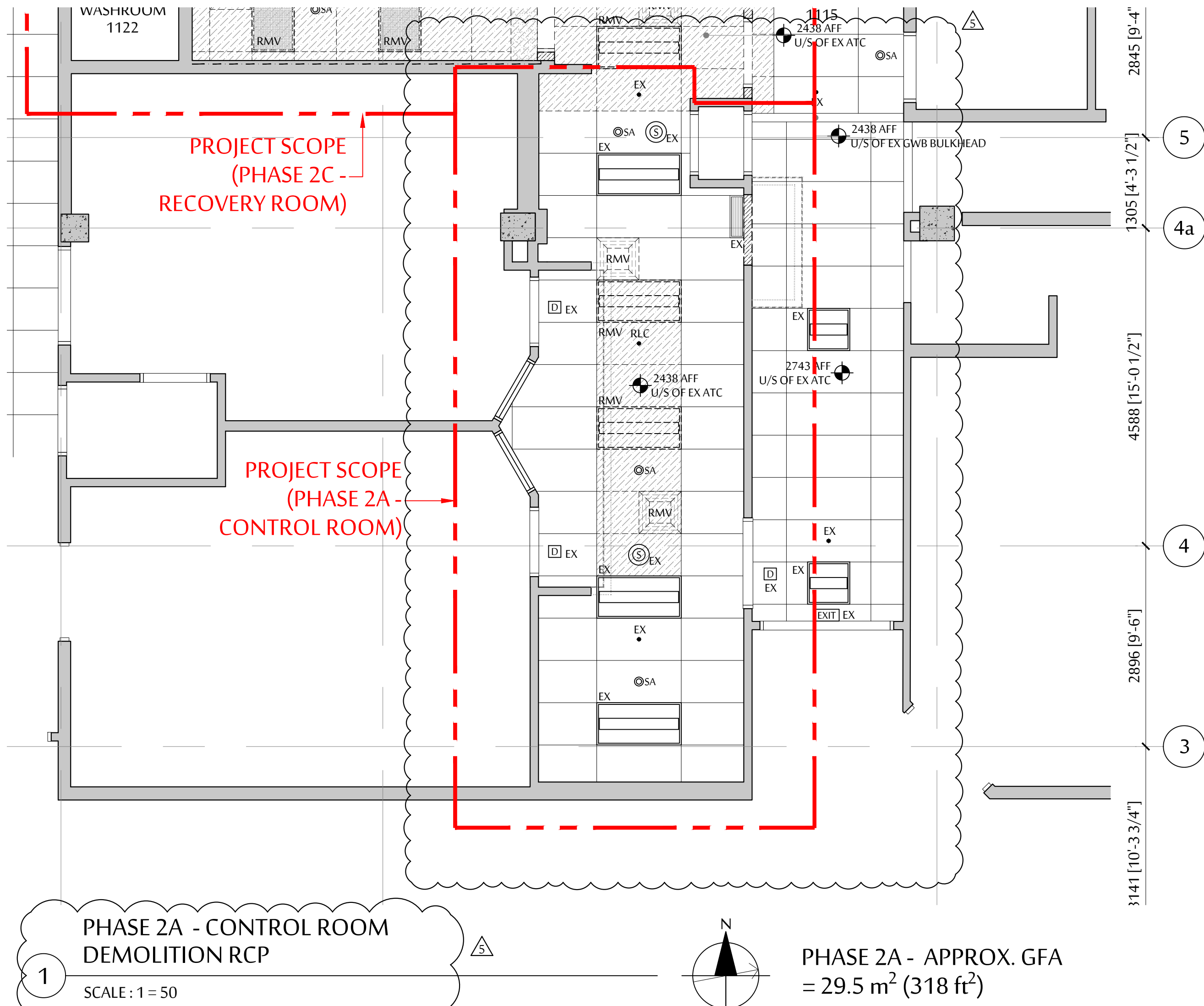
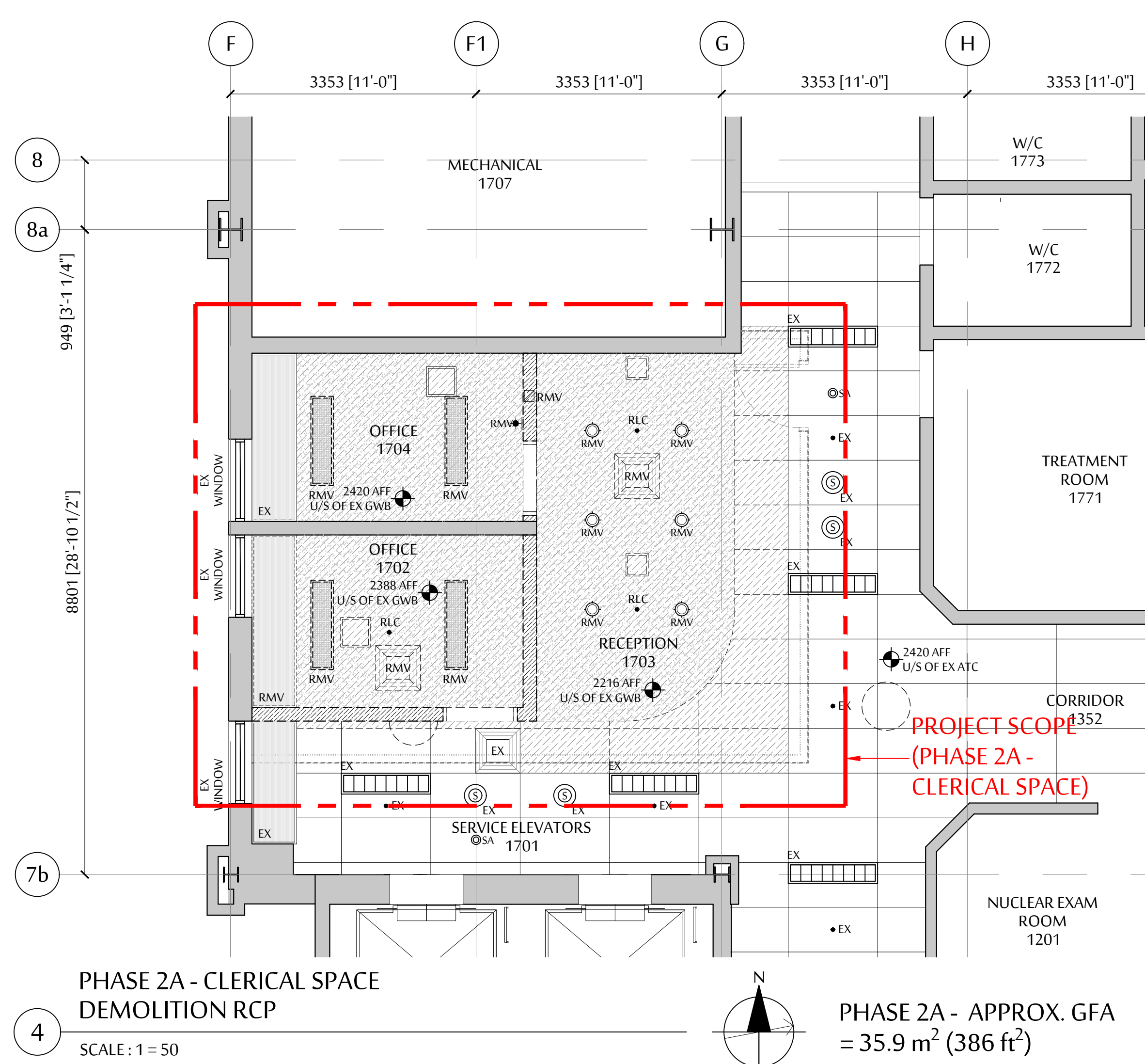
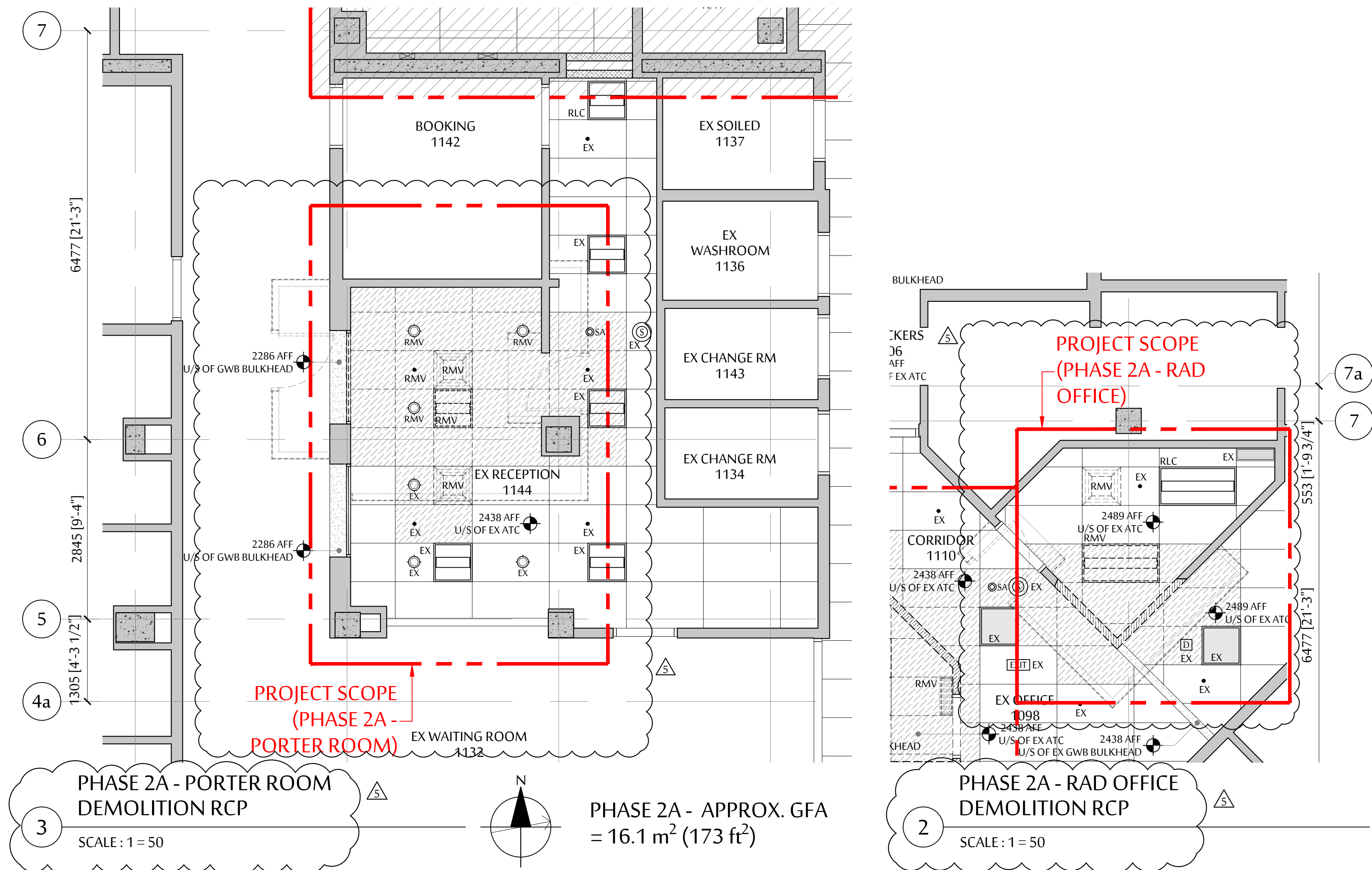
WALL MTD NURSE NOTIFICATION LIGHT

WALL MOUNTED IN-USE LIGHT

CEILING MTD NURSE NOTIFICATION LIGHT

CEILING MTD PANIC ALARM NOTIFICATION LIGHT

UNDERCABINET LED STRIP LIGHT



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2	ISSUED FOR DD REVIEW	APR 9, 2021	RC
1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC
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PHASE 2 - GEN FLUORO LEVEL 1 DEMOLITION RCP

SCALE:

1 : 50

DATE:

OCTOBER 2020

DRAWN:

RC

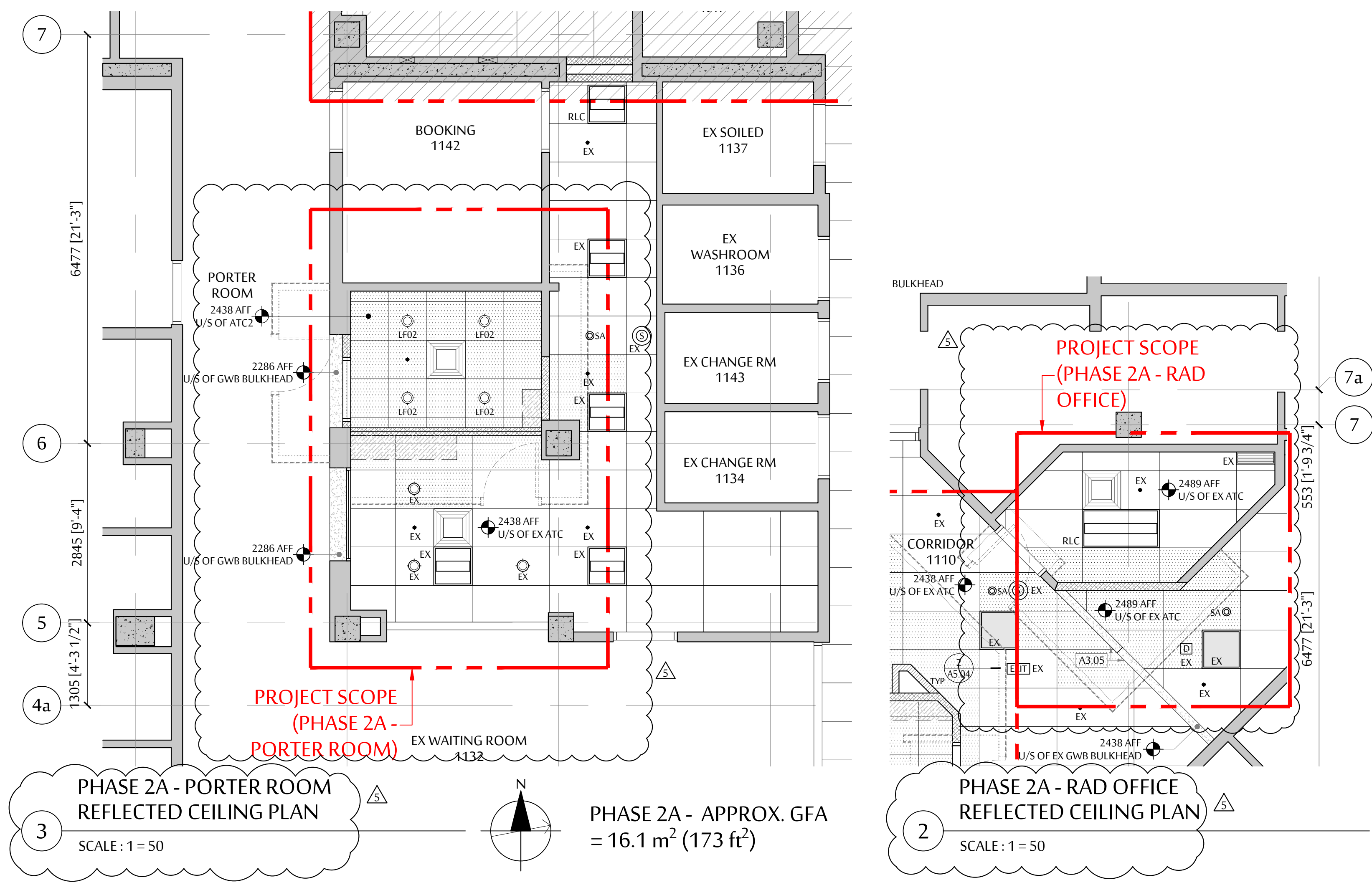
CHECKED:

DC

JOB No.:

DCYT2009

PHASE 2
A3.01A

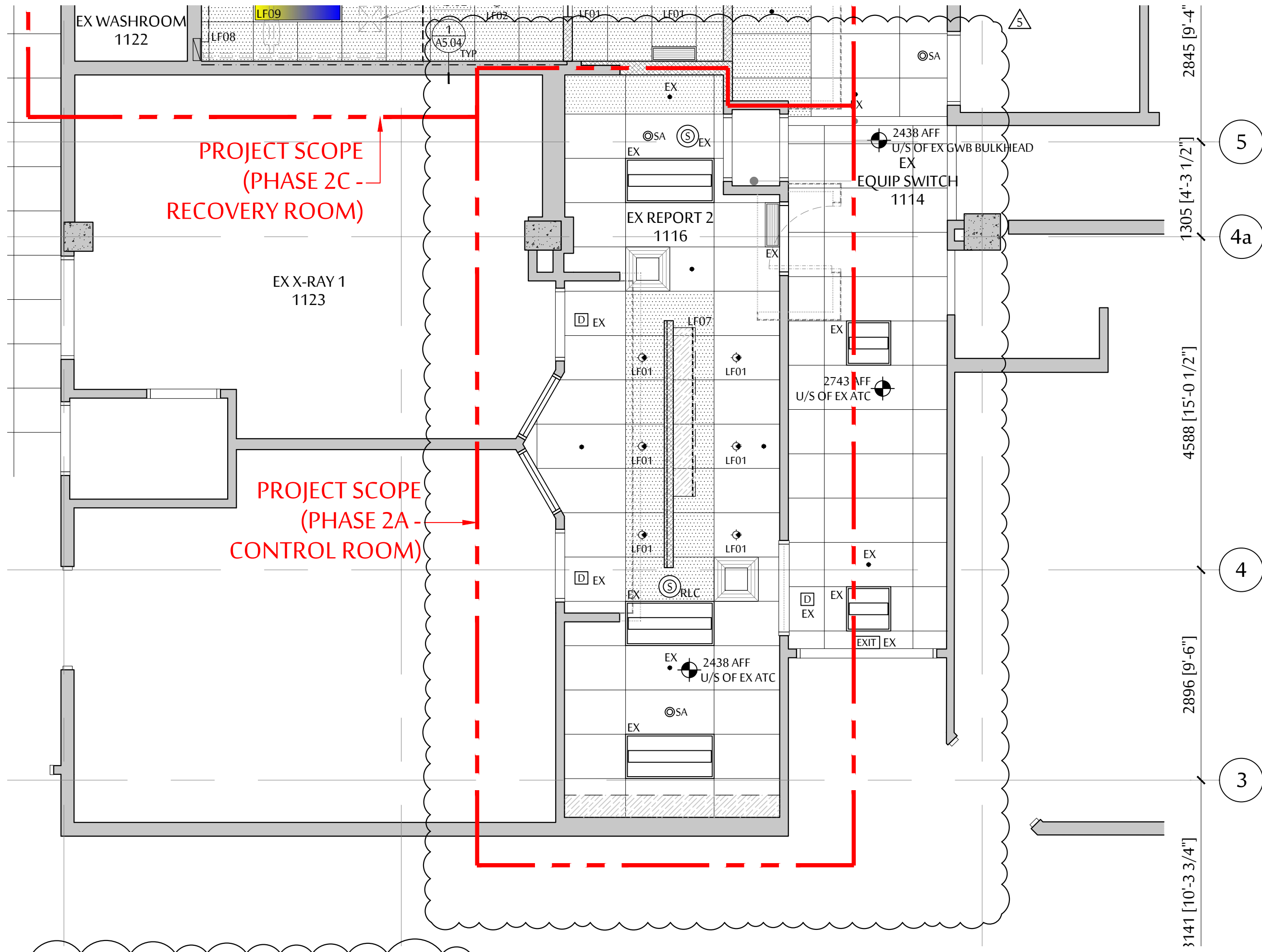
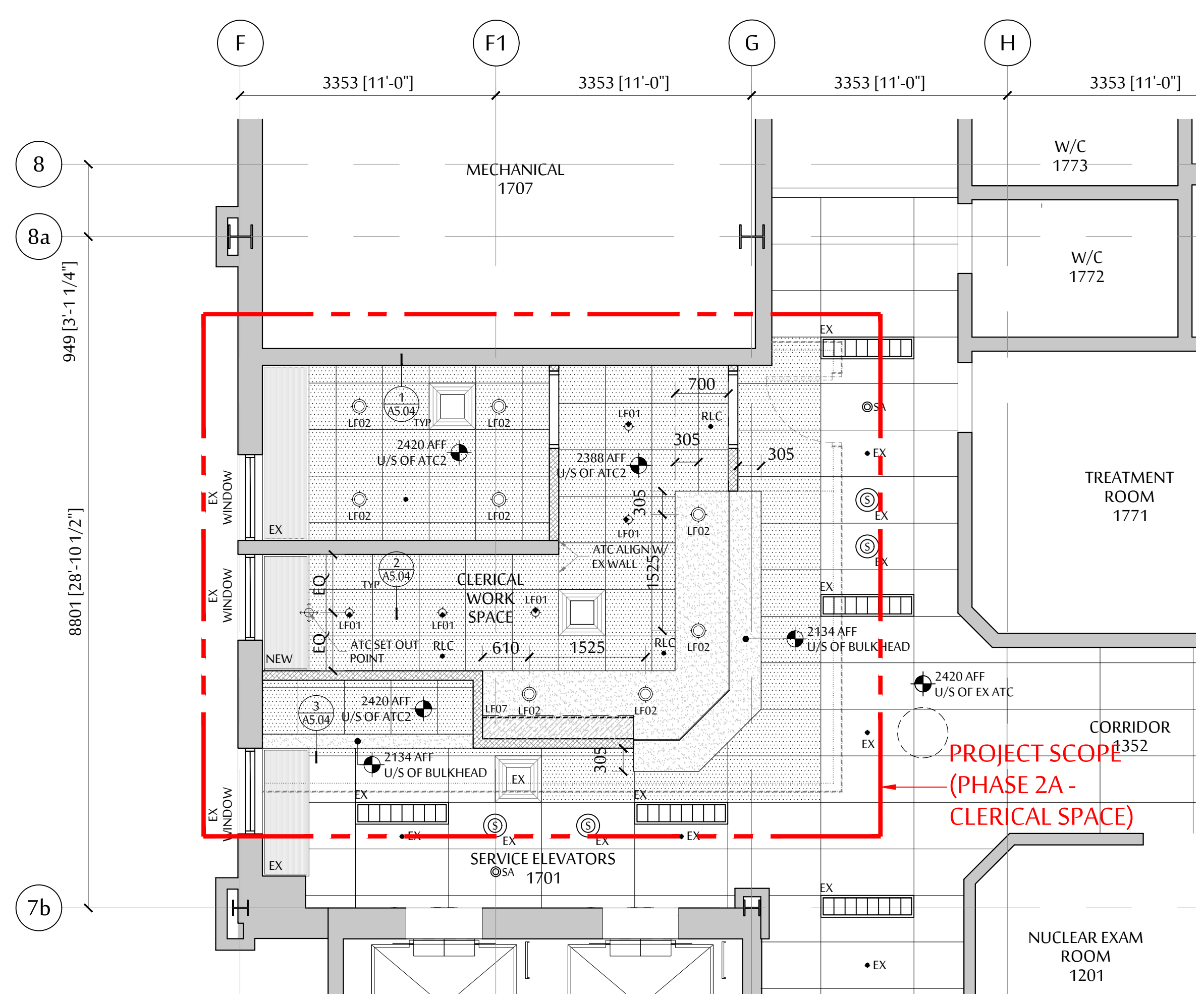


- CEILING GENERAL NOTES**
1. SURFACE MTD. LIGHT FIXT. IN SUSP CLNG TO BE HUNG FROM STRUCTURAL COMPONENTS ABOVE. DO NOT HANG FROM SUSP CLNG.
 2. ALL ACoust TILE CLNG GRIDS SHALL BE CENTERED IN ROOMS OR BULKHEAD UNLESS NOTED OTHERWISE.
 3. CENTER ALL M&E DEVICES IN CEILING PANEL UNO. SEE MECH. ELEC. PLUMB AND FIRE SERVICES DWGS FOR LOCATIONS.
 4. NO TILE DIMENSION SHALL BE LESS THAN 6" UNO. REVIEW WITH ARCHITECT PRIOR TO PROCEEDING.
 5. NOT ALL MEP DEVICES ARE SHOWN ON ARCH REFLECTED CLNG PLAN. SEE M&E DWGS FOR COMPLETE QUANTITY.
 6. DISCREPANCIES AMONG ARCHITECT'S AND ENGINEER'S DWGS IN REFLECTED CLNG PLAN LAYOUT AND M&E DEVICES LOCATIONS SHALL BE REPORTED TO ARCHITECT FOR CLARIFICATIONS BEFORE COMMENCEMENT OF WORK.
 7. NEW CEILING TO MATCH EXISTING CEILING HEIGHT UNLESS NOTED OTHERWISE.
 8. CONTRACTOR TO ENSURE ALL SUSP CLNG CONSTRUCTION TO BE STRUCTURALLY ENGINEERED TO CONFORM TO ALL BUILDING CODES.
 9. REMOVE ANY DAMAGED EX CEILING TILES WHICH ARE SHOWN AS TO REMAIN & REPLACE WITH NEW WHEN EXISTING CEILING TILES ARE DAMAGED DURING CONSTRUCTION OR SHOW REASONABLE VISIBLE DAMAGE PRIOR TO CONSTRUCTION.

- CEILING CONSTRUCTION NOTES**
- ALL WORKS BELOW ARE NEW INCLUDING SUPPLY & INSTALLATION OF MATERIALS UNO.
- A3.01 UNISUB FRAMING MOUNTED FLUSH TO CLNG TILES - SEE STRUCT DWGS FOR DETAILS
 - A3.02 NEW MECH DUCT PENETRATIONS ABOVE - SEE MECH DWGS FOR DETAILS
 - A3.03 NEW CEILING MOUNTED SIEMENS EQUIPMENT - SEE EQUIP. DWGS FOR DETAILS
 - A3.04 NEW CEILING MOUNTED PATIENT LIFT EQUIPMENT - SEE EQUIP. DWGS FOR DETAILS
 - A3.05 NEW DRYWALL BULKHEAD TO MATCH HEIGHT & WIDTH OF EXISTING BULKHEAD. REPAIR, PATCH AND MAKE SMOOTH EXISTING BULKHEAD TO RECEIVE NEW PAINT FOR FULL LENGTH.

LIGHT FIXTURE SCHEDULE

LF01	CEILING MOUNTED RECESSED WALL WASHER
LF02	CEILING MOUNTED RECESSED LED DOWNLIGHT
LF03	610 X 1220 LED TROFFER
LF04	610 X 610 LED TROFFER
LF05	610 X 610 CLM LED CLEANROOM
LF06	RESERVED
LF07	UNDER CABINET LED STRIP LIGHT
LF08	1220 LINEAR WALL MOUNTED DOWNLIGHT
LF09	305 X 1220 LED SCENIC LIGHTING



PHASE 2A - CLERICAL SPACE REFLECTED CEILING PLAN
SCALE: 1 = 50
PHASE 2A - APPROX. GFA = 35.9 m² (386 ft²)

PHASE 2A - CONTROL ROOM REFLECTED CEILING PLAN
SCALE: 1 = 50
PHASE 2A - APPROX. GFA = 29.5 m² (318 ft²)

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2	ISSUED FOR DD REVIEW	APR 9, 2021	RC
1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC
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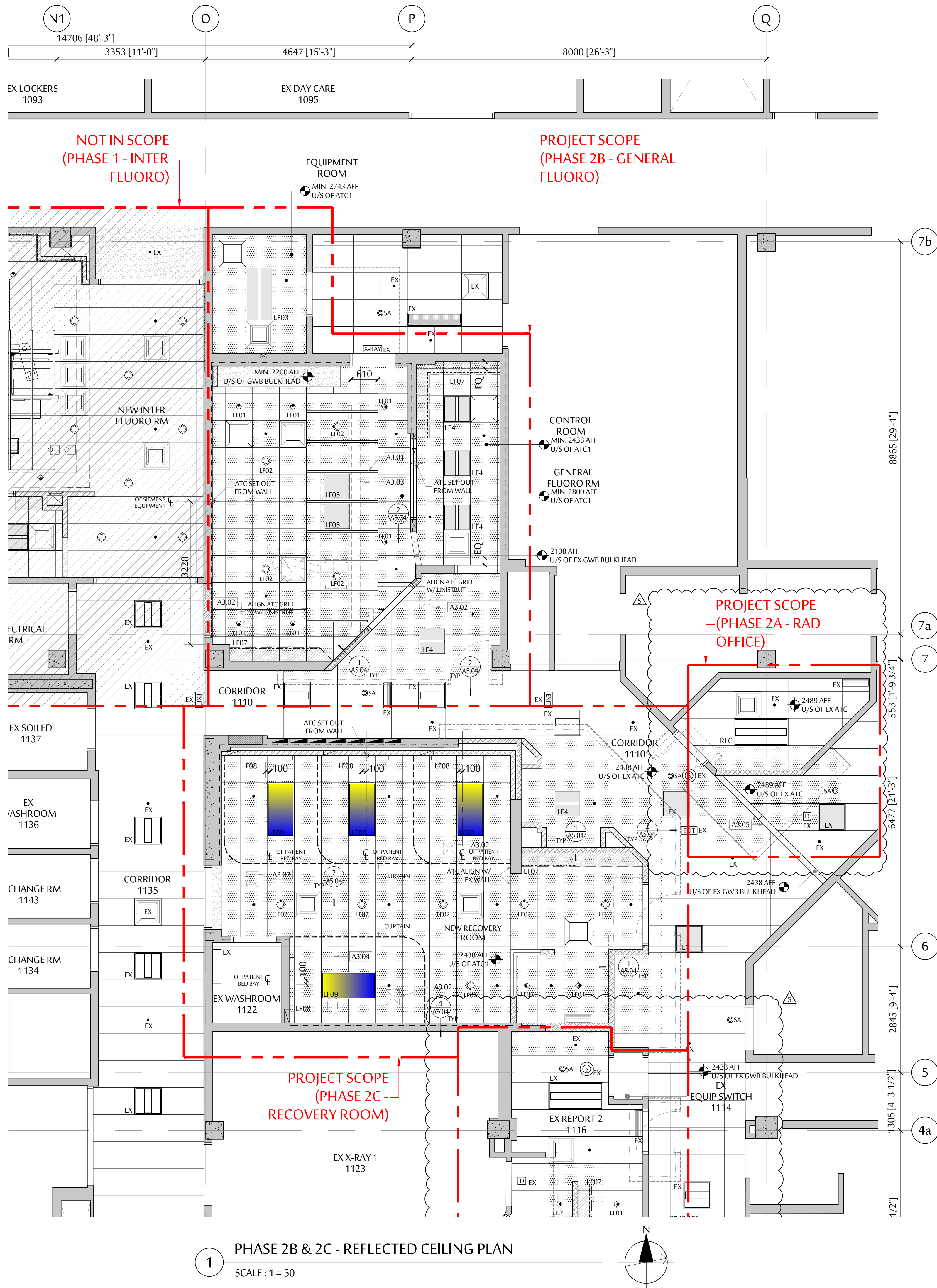
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**PHASE 2 - GEN FLUORO
LEVEL 1
REFLECTED CEILING PLAN**

SCALE: 1 : 50
DATE: OCTOBER 2020
DRAWN: RC
CHECKED: DC
JOB No.: DCYT2009

**PHASE 2
A3.02**




1 PHASE 2B & 2C - REFLECTED CEILING PLAN
SCALE: 1 = 50

- CEILING GENERAL NOTES**
1. SURFACE MTD. LIGHT FIXT. IN SUSP CLNG TO BE HUNG FROM STRUCTURAL COMPONENTS ABOVE. DO NOT HANG FROM SUSP CLNG.
 2. ALL ACOUST TILE CLNG GRIDS SHALL BE CENTERED IN ROOMS OR BULKHEAD UNLESS NOTED OTHERWISE.
 3. CENTER ALL M&E DEVICES IN CEILING PANEL UNO. SEE MECH. ELEC. PLUMB AND FIRE SERVICES DWGS FOR LOCATIONS.
 4. NO TILE DIMENSION SHALL BE LESS THAN 6" UNO. REVIEW WITH ARCHITECT PRIOR TO PROCEEDING.
 5. NOT ALL MEP DEVICES ARE SHOWN ON ARCH REFLECTED CLNG PLAN. SEE M&E DWGS FOR COMPLETE QUANTITY.
 6. DISCREPANCIES AMONG ARCHITECT'S AND ENGINEER'S DWGS IN REFLECTED CLNG PLAN LAYOUT AND M&E DEVICES LOCATIONS SHALL BE REPORTED TO ARCHITECT FOR CLARIFICATIONS BEFORE COMMENCEMENT OF WORK.
 7. NEW CEILING TO MATCH EXISTING CEILING HEIGHT UNLESS NOTED OTHERWISE.
 8. CONTRACTOR TO ENSURE ALL SUSP CLNG CONSTRUCTION TO BE STRUCTURALLY ENGINEERED TO CONFORM TO ALL BUILDING CODES.
 9. REMOVE ANY DAMAGED EX CEILING TILES WHICH ARE SHOWN AS TO REMAIN & REPLACE WITH NEW WHEN EXISTING CEILING TILES ARE DAMAGED DURING CONSTRUCTION OR SHOW REASONABLE VISIBLE DAMAGE PRIOR TO CONSTRUCTION.

- CEILING CONSTRUCTION NOTES**
- ALL WORKS BELOW ARE NEW INCLUDING SUPPLY & INSTALLATION OF MATERIALS UNO.
- A3.01 UNISTRUT FRAMING MOUNTED FLUSH TO CLNG TILES - SEE STRUCT DWGS FOR DETAILS
 - A3.02 NEW MECH DUCT PENETRATIONS ABOVE - SEE MECH DWGS FOR DETAILS
 - A3.03 NEW CEILING MOUNTED SIEMENS EQUIPMENT - SEE EQUIP. DWGS FOR DETAILS
 - A3.04 NEW CEILING MOUNTED PATIENT LIFT EQUIPMENT - SEE EQUIP. DWGS FOR DETAILS
 - A3.05 NEW DRYWALL BULKHEAD TO MATCH HEIGHT & WIDTH OF EXISTING BULKHEAD. REPAIR, PATCH AND MAKE SMOOTH EXISTING BULKHEAD TO RECEIVE NEW PAINT FOR FULL LENGTH.

- LIGHT FIXTURE SCHEDULE**
- LF01 CEILING MOUNTED RECESSED WALL WASHER
 - LF02 CEILING MOUNTED RECESSED LED DOWNLIGHT
 - LF03 610 X 1220 LED TROFFER
 - LF04 610 X 610 LED TROFFER
 - LF05 610 X 610 CLM LED CLEANROOM
 - LF06 RESERVED
 - LF07 UNDER CABINET LED STRIP LIGHT
 - LF08 1220 LINEAR WALL MOUNTED DOWNLIGHT
 - LF09 305 X 1220 LED SCENIC LIGHTING


ARCHITECT :



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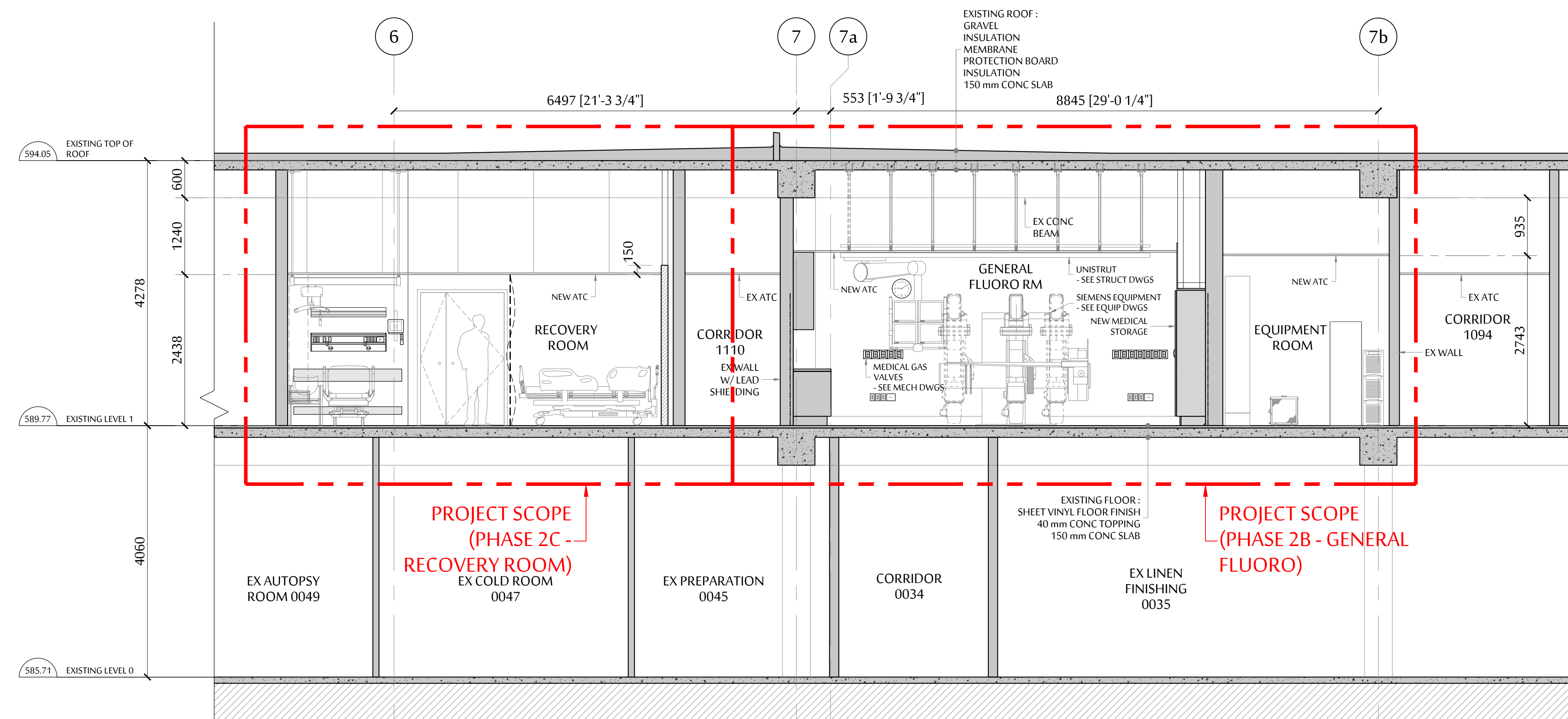
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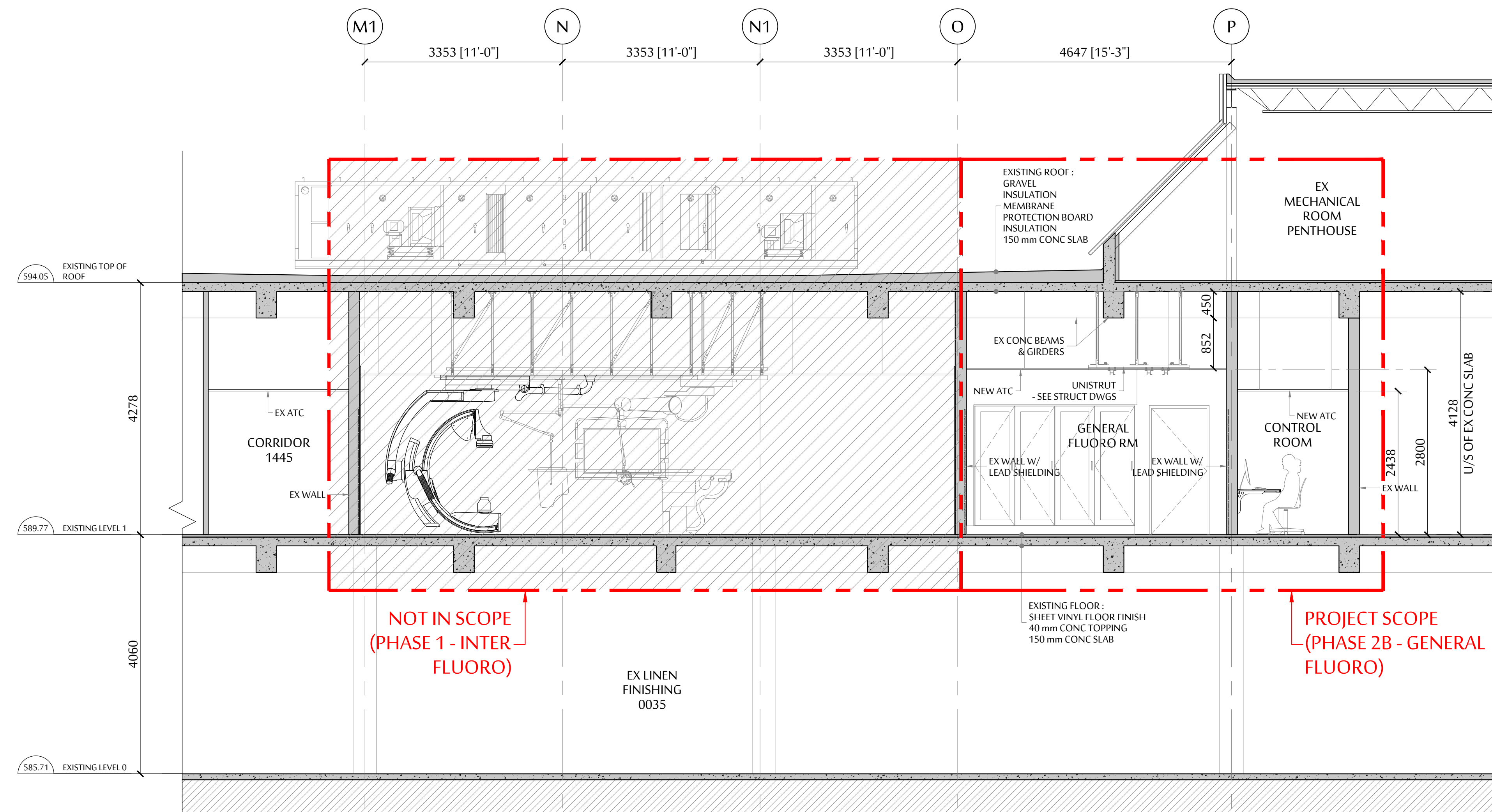
PHASE 2 - GEN FLUORO LEVEL 1 REFLECTED CEILING PLAN

SCALE: 1 : 50
DATE: OCTOBER 2020
DRAWN: RC
CHECKED: DC
JOB No.: DCYT2009

PHASE 2 A3.02B



2 PHASE 2B & 2C - SECTION B-B
SCALE : 1 = 50



1 PHASE 2B - SECTION A-A
SCALE : 1 = 50

ARCHITECT :



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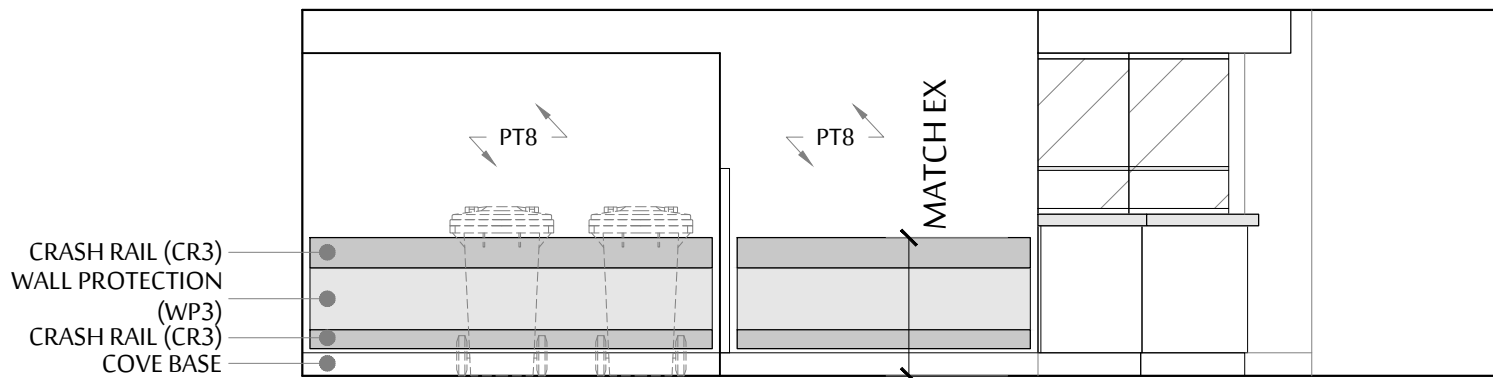
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BC V2M 1S2

PHASE 2 - GEN FLUORO SECTIONS

SCALE:
1 : 50
DATE:
OCTOBER 2020
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RC
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DC
JOB No.:
DCYT2009

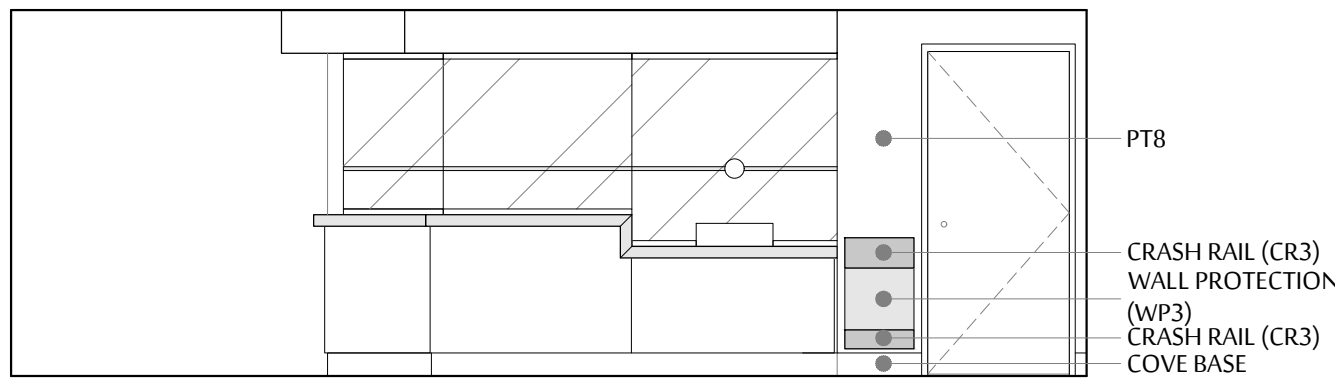
PHASE 2
A4.01



PHASE 2A - CLERICAL SPACE - NORTH ELEVATION
WALL PROTECTION

2B

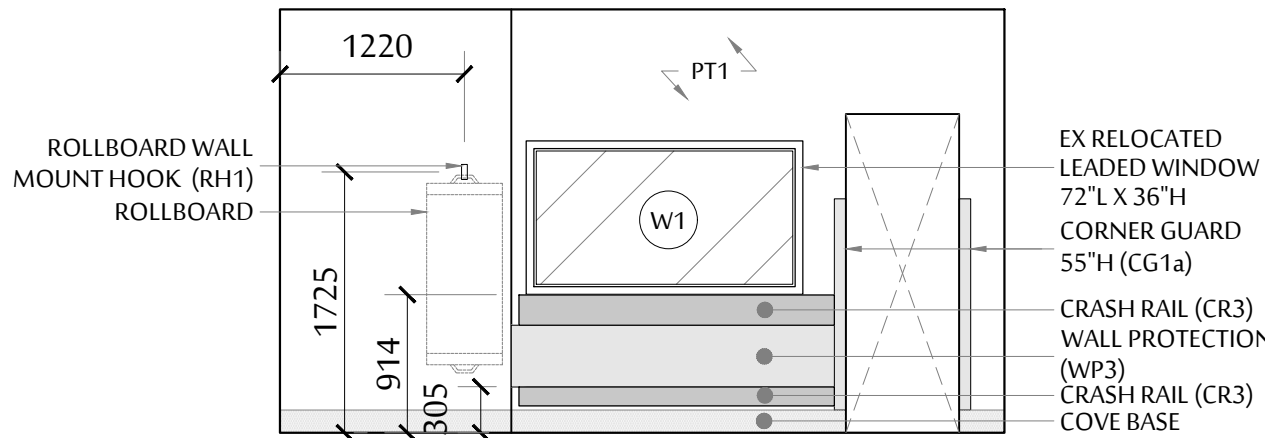
SCALE : 1 = 50



PHASE 2A - CLERICAL SPACE - WEST ELEVATION
WALL PROTECTION

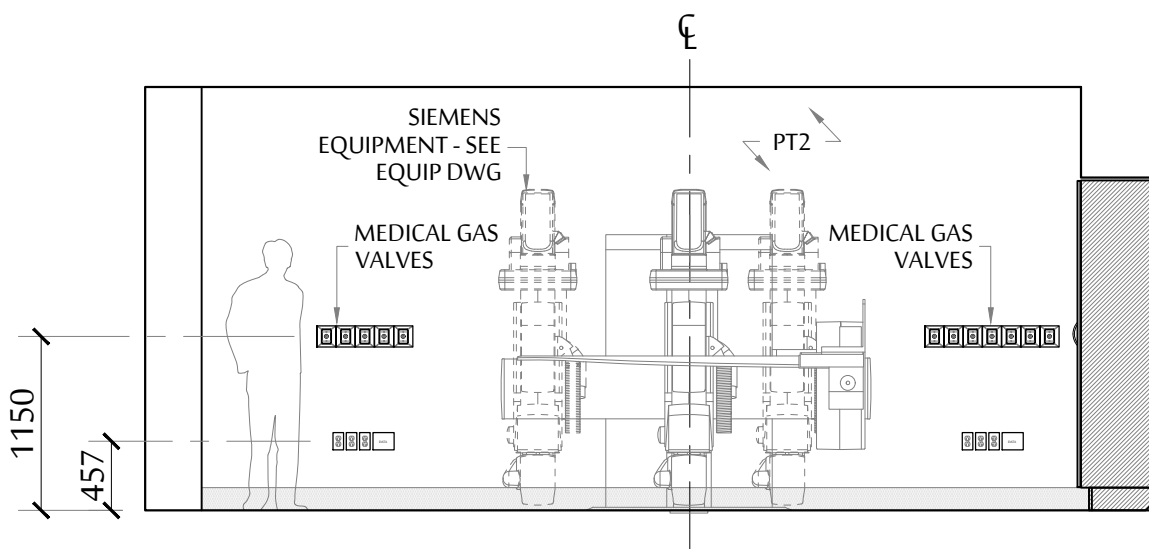
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SCALE : 1 = 50



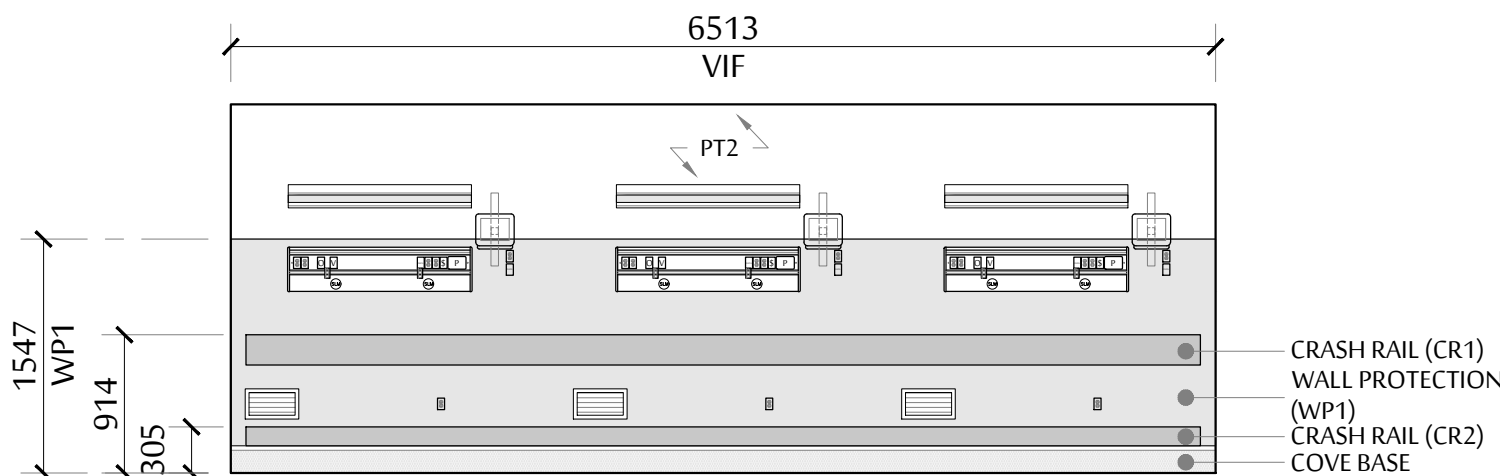
PHASE 2B - GEN FLUORO - EAST ELEVATION

SCALE : 1 = 50



PHASE 2B - GEN FLUORO - WEST ELEVATION

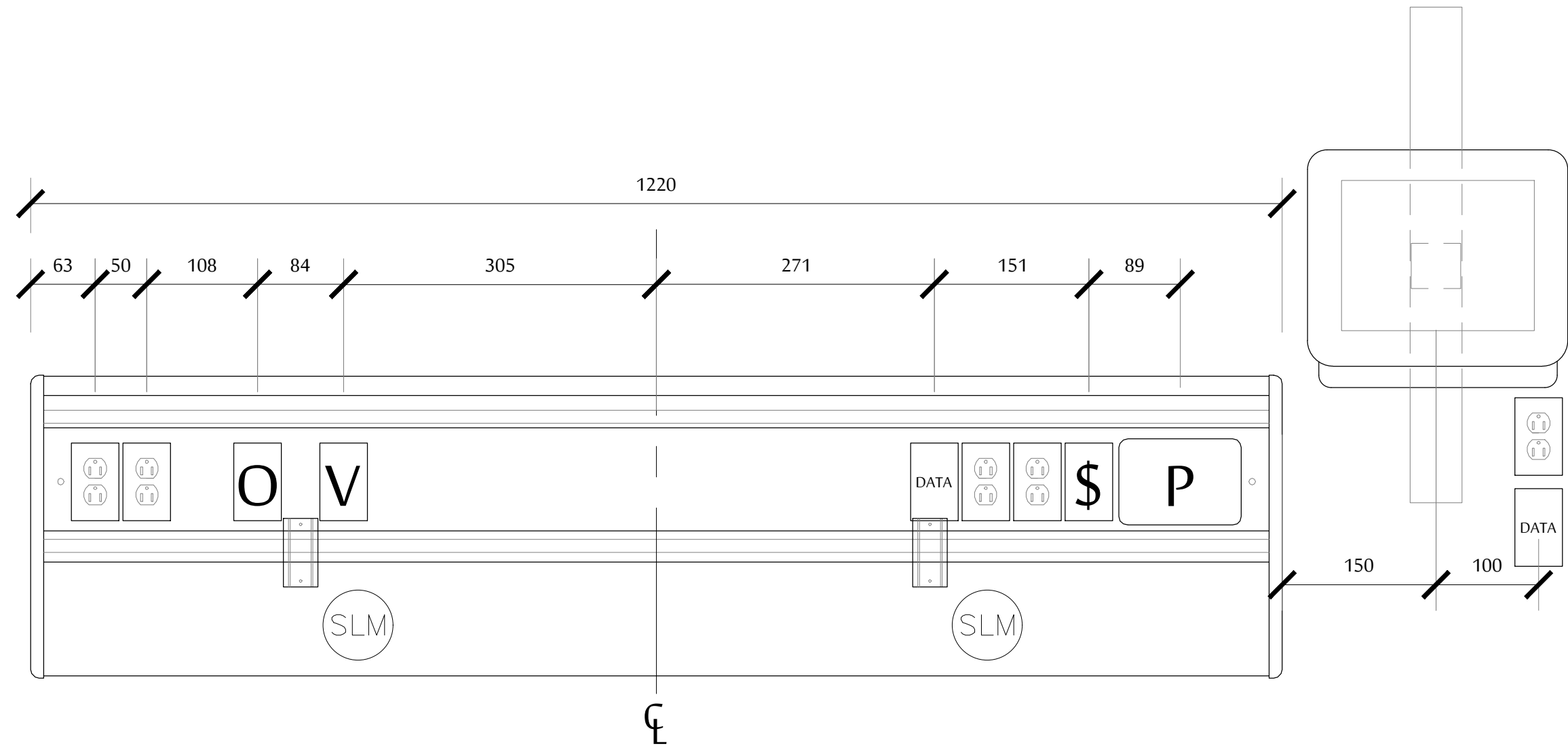
SCALE : 1 = 50



PHASE 2C - RECOVERY ROOM - NORTH ELEVATION
WALL PROTECTION

1A

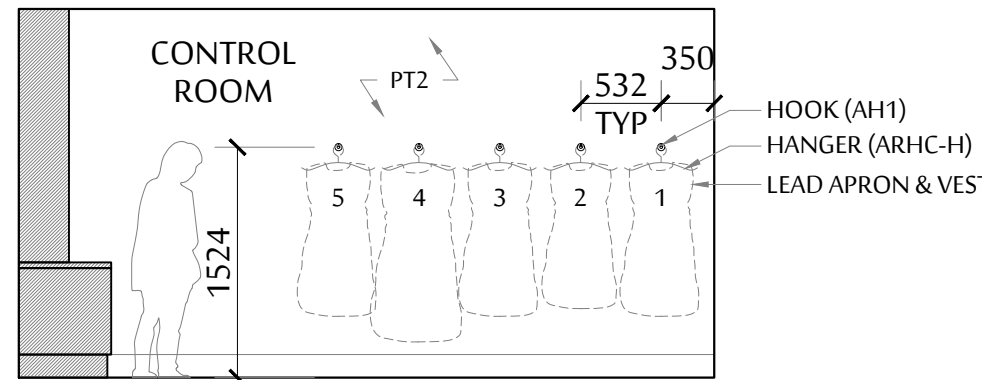
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PHASE 2C - RECOVERY ROOM - HEADWALL SYSTEM &
PATIENT MONITOR

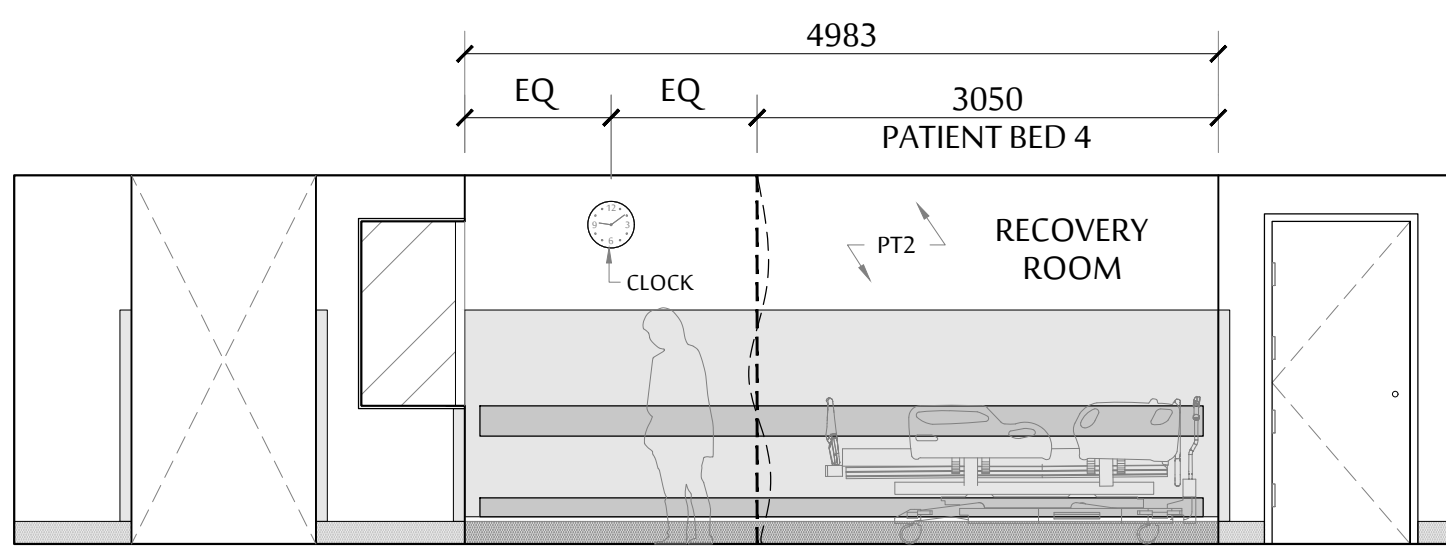
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SCALE : 1 = 5



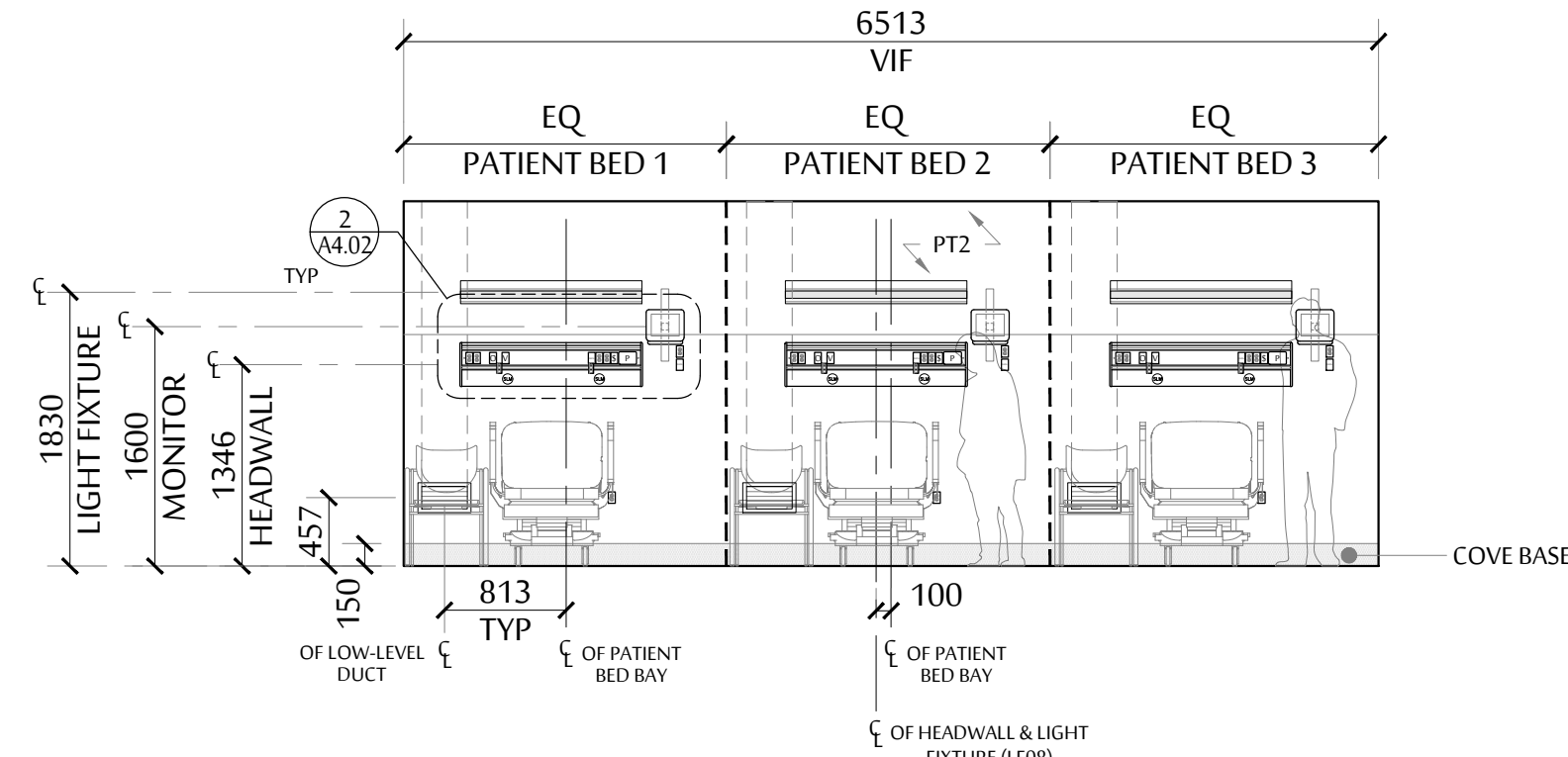
PHASE 2B - GEN FLUORO CONTROL RM - EAST ELEVATION

SCALE : 1 = 50



PHASE 2C - RECOVERY ROOM - SOUTH ELEVATION

SCALE : 1 = 50



PHASE 2C - RECOVERY ROOM - NORTH ELEVATION
EQUIPMENT

1A

SCALE : 1 = 50

ARCHITECT :



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10-11	NOT ISSUED	-	-
9	TENDER ADDENDUM 2	JUNE 16, 2021	RC
8	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	NOT ISSUED	-	-
5	NOT ISSUED	-	-
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
No.	REVISION	DATE	BY

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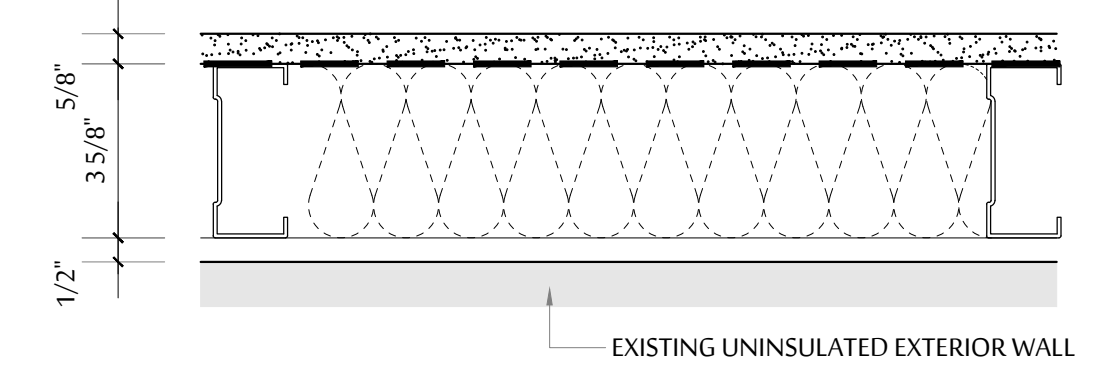

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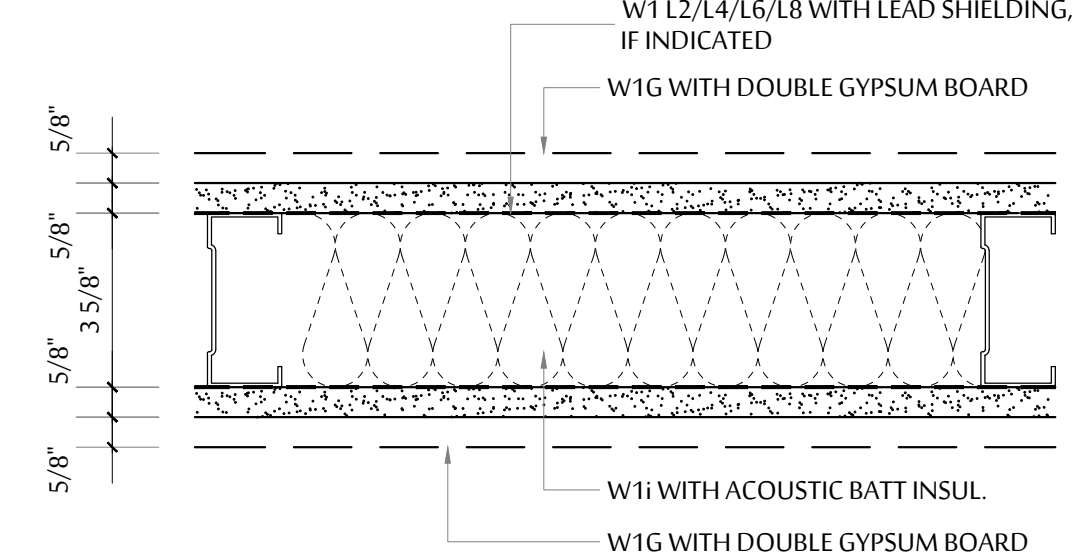
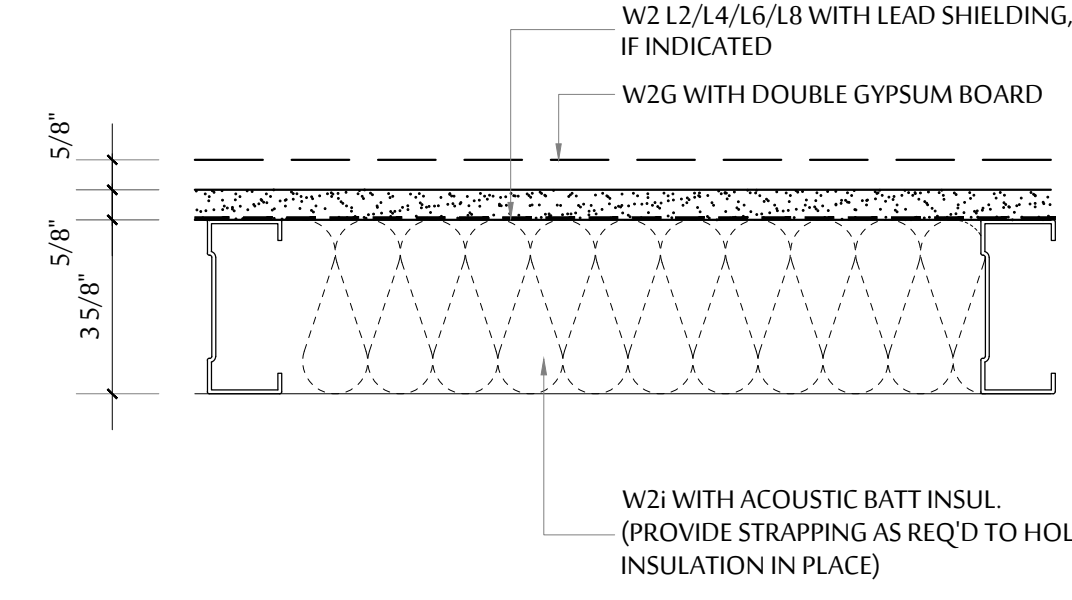
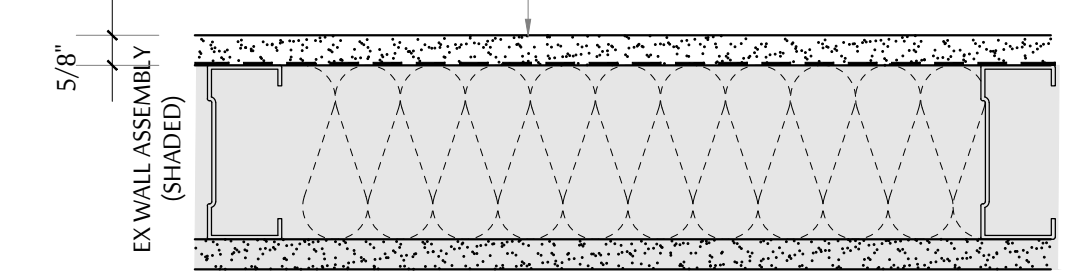
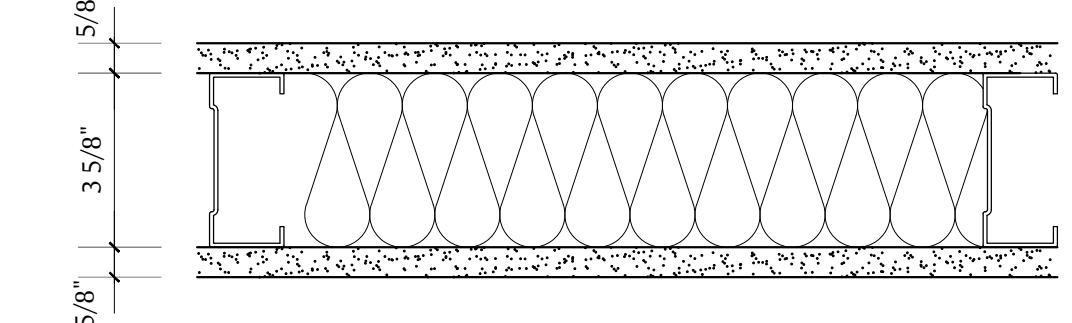
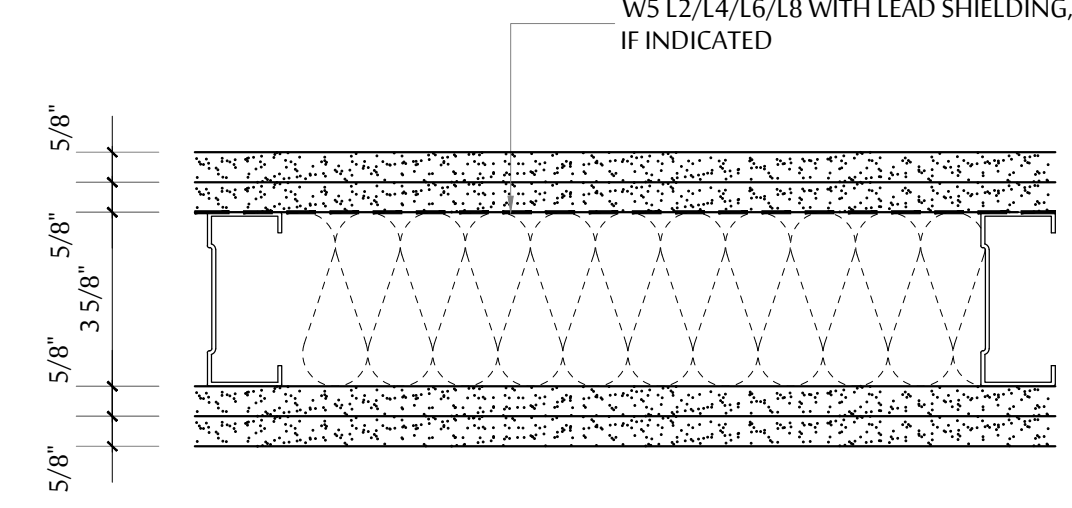
1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2


PHASE 2 - GEN FLUORO
INTERIOR ELEVATIONS

SCALE:
1 : 50
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

PHASE 2
A4.02

	W6 (NOT USED)	FUR-OUT WALL ASSEMBLY ON UNINSULATED EXTERIOR WALL - 16 MM (5/8") GYPSUM BOARD - 6 MIL POLY VAPOUR AND AIR BARRIER - 92 MM (3-5/8") 25 GA STEEL STUD AT 400MM (16") O.C. - WITH ACOUSTIC BATT INSULATION - 12MM (1/2" AIR GAP) - EXISTING UNINSULATED EXTERIOR WALL
	W7	FUR-OUT WALL ASSEMBLY - 13 MM (1/2") FIRE-RESISTANT TREATED PLYWOOD - 38 MM (1-1/2") 25 GA STEEL FURRING CHANNEL AT 400MM (16") O.C.
	suffix G	SAME AS W7 EXCEPT WITH ADDITIONAL GYPSUM BOARD ON ROOM SIDE
	suffix L2/L4/L6/L8	SAME AS W7 EXCEPT WITH 7" HIGH CONTINUOUS LEAD SHIELDING AS FOLLOWS: L2 = 0.8MM (1/32") THK LEAD LINING (2 LB) L4 = 1.6MM (1/16") THK LEAD LINING (4 LB) L6 = 2.4MM (3/32") THK LEAD LINING (6 LB) L8 = 3.2MM (1/8") THK LEAD LINING (8 LB) SEE SPECS AND RADIATION REPORT FOR LEAD SHIELDING INSTALLATION REQUIREMENTS
GENERAL NOTES: 1. ALL PARTITIONS FOR THIS PROJECT TO BE TYPE W1 UNLESS NOTED OTHERWISE 2. SEE STRUCT DWGS FOR FRAMING DETAILS 3. FOR ALL WALL INFILLS, ADD ADDITIONAL GWB LAYERS AS REQUIRED TO BRING FLUSH WITH ADJACENT WALLS		


WALL SCHEDULE		
	W1	NON-RATED WALL ASSEMBLY WALL ASSEMBLY TO EXTEND MIN. 152MM (6") ABOVE FINISHED CEILING & TIED TO STRUCT SLAB ABOVE WITH STEEL STUD BRACING - 16 MM (5/8") GYPSUM BOARD - 92 MM (3-5/8") 20 GA STEEL STUD AT 400MM (16") O.C. - 16 MM (5/8") GYPSUM BOARD
	suffix A	SAME AS W1 EXCEPT WALL ASSEMBLY TO BE FULL HT FROM FLR TO STRUCT SLAB ABOVE
	suffix G	SAME AS W1 EXCEPT WITH DOUBLE GYPSUM BOARD ON BOTH SIDES
	suffix i	SAME AS W1 EXCEPT WITH ACOUSTIC BATT INSULATION TO FILL WALL CAVITY AND CONT ACOUSTIC SEALANTS BETWEEN GYPSUM BOARD AND FLOOR (STC = 47)
	suffix T	SAME AS W1 EXCEPT WITH 152MM (6") 20 GA STEEL STUD AT 400MM (16") O.C. INSTEAD OF 92MM (3 5/8") STEEL STUD
	suffix L2/L4/L6/L8	SAME AS W1 EXCEPT WITH 7" HIGH CONTINUOUS LEAD SHIELDING AS FOLLOWS: L2 = 0.8MM (1/32") THK LEAD LINING (2 LB) L4 = 1.6MM (1/16") THK LEAD LINING (4 LB) L6 = 2.4MM (3/32") THK LEAD LINING (6 LB) L8 = 3.2MM (1/8") THK LEAD LINING (8 LB) SEE SPECS AND ALSO RADIATION REPORT FOR LEAD SHIELDING INSTALLATION REQUIREMENTS USE 1/2" GYPSUM BOARD ON ONE SIDE OF WALL WHERE WALL CONTAINS LEADED DOOR AND/OR WINDOW ONLY
	W2	FUR-OUT WALL ASSEMBLY - 16 MM (5/8") GYPSUM BOARD - 92 MM (3-5/8") 20 GA STEEL STUD AT 400MM (16") O.C.
	suffix A	SAME AS W2 EXCEPT WALL ASSEMBLY TO BE FULL HT FROM FLR TO STRUCT SLAB ABOVE
	suffix G	SAME AS W2 EXCEPT WITH DOUBLE GYPSUM BOARD ON ROOM SIDE
	suffix i	SAME AS W2 EXCEPT WITH ACOUSTIC BATT INSULATION TO FILL WALL CAVITY AND CONT ACOUSTIC SEALANTS BETWEEN GYPSUM BOARD AND FLOOR
	suffix T	SAME AS W2 EXCEPT WITH 152MM (6") 20 GA STEEL STUD AT 400MM (16") O.C. INSTEAD OF 92MM (3 5/8") STEEL STUD
	suffix L2/L4/L6/L8	SAME AS W2 EXCEPT WITH 7" HIGH CONTINUOUS LEAD SHIELDING AS FOLLOWS: L2 = 0.8MM (1/32") THK LEAD LINING (2 LB) L4 = 1.6MM (1/16") THK LEAD LINING (4 LB) L6 = 2.4MM (3/32") THK LEAD LINING (6 LB) L8 = 3.2MM (1/8") THK LEAD LINING (8 LB) SEE SPECS AND ALSO RADIATION REPORT FOR LEAD SHIELDING INSTALLATION REQUIREMENTS USE 1/2" GYPSUM BOARD ON ONE SIDE OF WALL WHERE WALL CONTAINS LEADED DOOR AND/OR WINDOW ONLY
	W3	LEAD SHIELDING FUR-OUT WALL ASSEMBLY ON EXISTING WALL - 16MM (5/8") GYPSUM BOARD - EXISTING STEEL STUD WALL ASSEMBLY
	suffix L2/L4/L6/L8	SAME AS W3 EXCEPT WITH 7" HIGH CONTINUOUS LEAD SHIELDING AS FOLLOWS: L2 = 0.8MM (1/32") THK LEAD LINING (2 LB) L4 = 1.6MM (1/16") THK LEAD LINING (4 LB) L6 = 2.4MM (3/32") THK LEAD LINING (6 LB) L8 = 3.2MM (1/8") THK LEAD LINING (8 LB) SEE SPECS AND ALSO RADIATION REPORT FOR LEAD SHIELDING INSTALLATION REQUIREMENTS USE 1/2" GYPSUM BOARD ON ONE SIDE OF WALL WHERE WALL CONTAINS LEADED DOOR AND/OR WINDOW ONLY
	W4 (NOT USED)	FIRE-RATED WALL ASSEMBLY (1 HR F.R.R. & STC 47) - BC BUILDING CODE, TABLE A - 9.10.3.1. A WALL NUMBER S4b WALL ASSEMBLY TO EXTEND TO UNDERSIDE OF STRUCT SLAB ABOVE ONE PIECE (NO SPLICING), AND FIRE SEPARATED WITH 1 HR F.R.R. - 16 MM (5/8") TYPE "X" GYPSUM BOARD - 31MM X 92 MM (3-5/8") 20 GA STEEL STUD AT 400MM (16") O.C. - MINERAL FIBRE BATT INSULATION WITH MIN 2.8 KG/S.M. COMPLETELY FILL WALL CAVITY - 16 MM (5/8") TYPE "X" GYPSUM BOARD
	suffix T	SAME AS W4 EXCEPT WITH 152MM (6") 20 GA STEEL STUD AT 400MM (16") O.C. INSTEAD OF 92MM (3 5/8") STEEL STUD
	W5	FIRE-RATED WALL ASSEMBLY (2 HR F.R.R. & STC 55) - BC BUILDING CODE, TABLE A - 9.10.3.1. A WALL NUMBER S6b WALL ASSEMBLY TO EXTEND TO UNDERSIDE OF STRUCT SLAB ABOVE ONE PIECE (NO SPLICING), AND FIRE SEPARATED WITH 1 HR F.R.R. - 16 MM (5/8") TYPE "X" GYPSUM BOARD - 31MM X 92 MM (3-5/8") 20 GA STEEL STUD AT 400MM (16") O.C. - MINERAL FIBRE BATT INSULATION WITH MIN 2.8 KG/S.M. COMPLETELY FILL WALL CAVITY - 16 MM (5/8") TYPE "X" GYPSUM BOARD
	suffix L2/L4/L6/L8	SAME AS W5 EXCEPT WITH 7" HIGH CONTINUOUS LEAD SHIELDING AS FOLLOWS: L2 = 0.8MM (1/32") THK LEAD LINING (2 LB) L4 = 1.6MM (1/16") THK LEAD LINING (4 LB) L6 = 2.4MM (3/32") THK LEAD LINING (6 LB) L8 = 3.2MM (1/8") THK LEAD LINING (8 LB) SEE SPECS AND ALSO RADIATION REPORT FOR LEAD SHIELDING INSTALLATION REQUIREMENTS USE 1/2" GYPSUM BOARD ON ONE SIDE OF WALL WHERE WALL CONTAINS LEADED DOOR AND/OR WINDOW ONLY

ARCHITECT :

HEALTHCARE COMMERCIAL RESIDENTIAL INTERIORDESIGN

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12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
8-11	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
5	ISSUED FOR BP SUBMISSION	MAY 7, 2021	RC
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
No.	REVISION	DATE	BY

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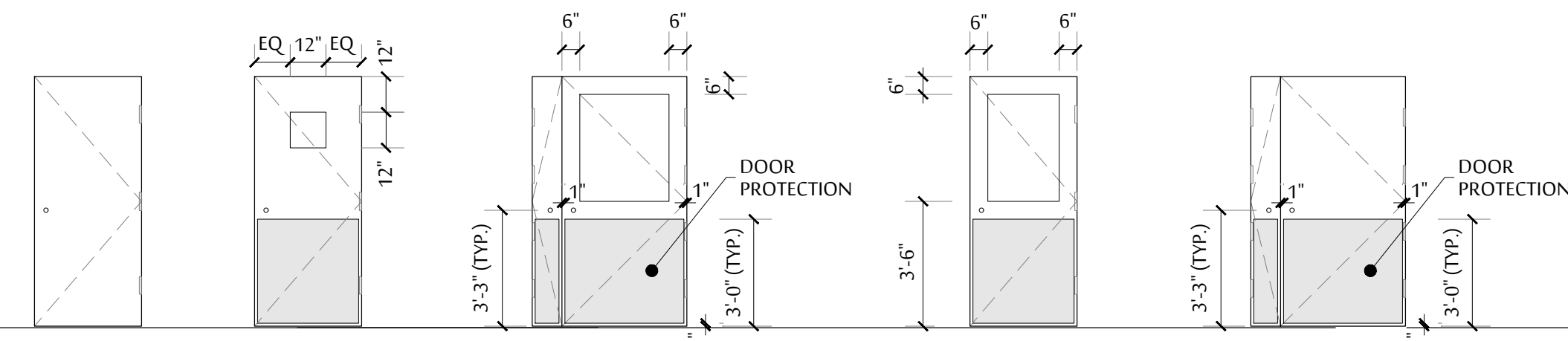
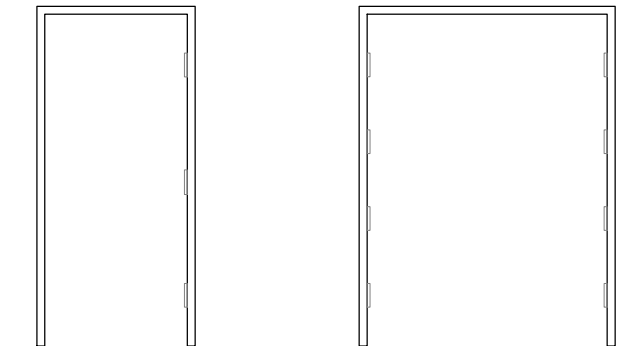
1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

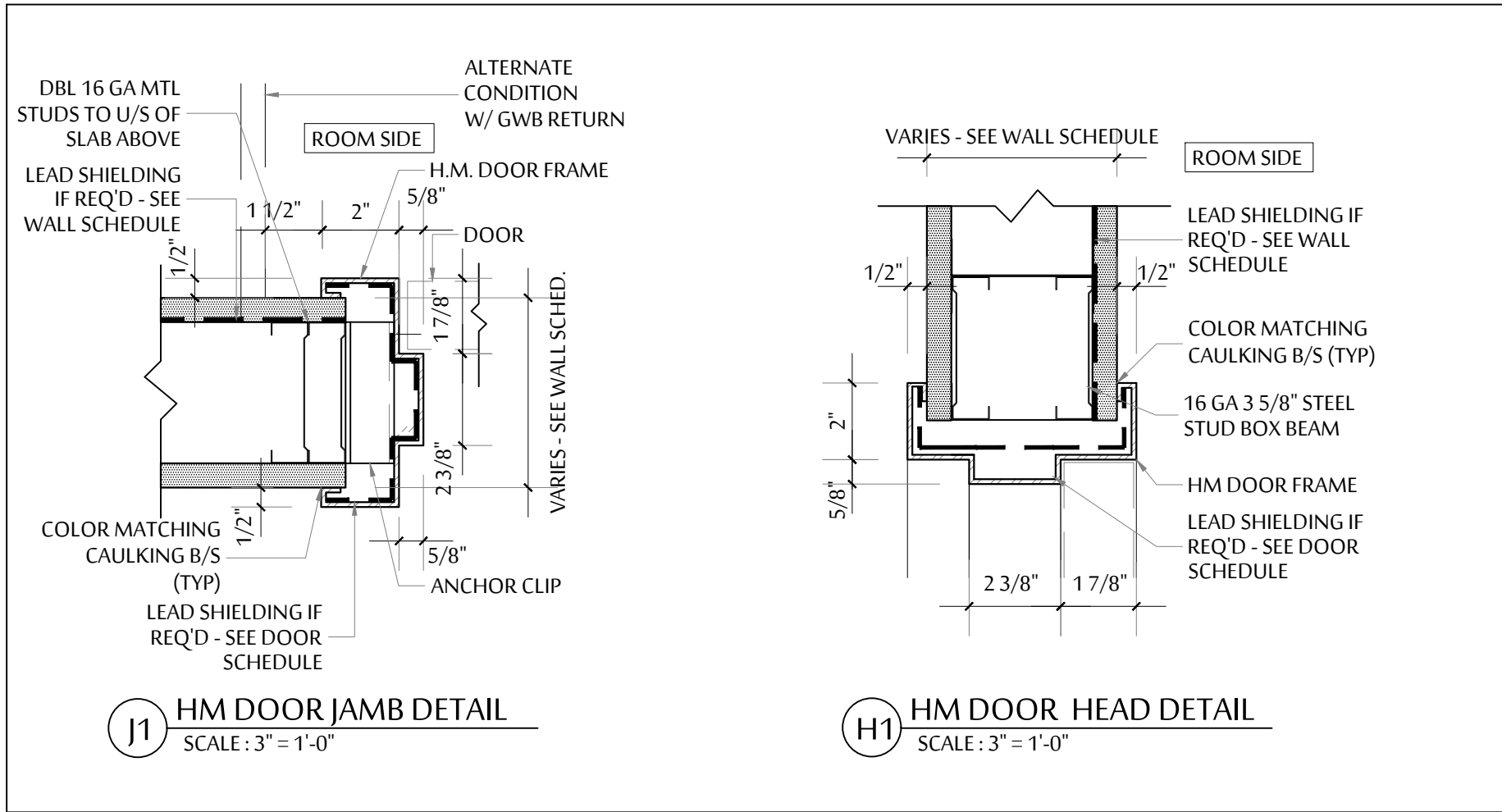
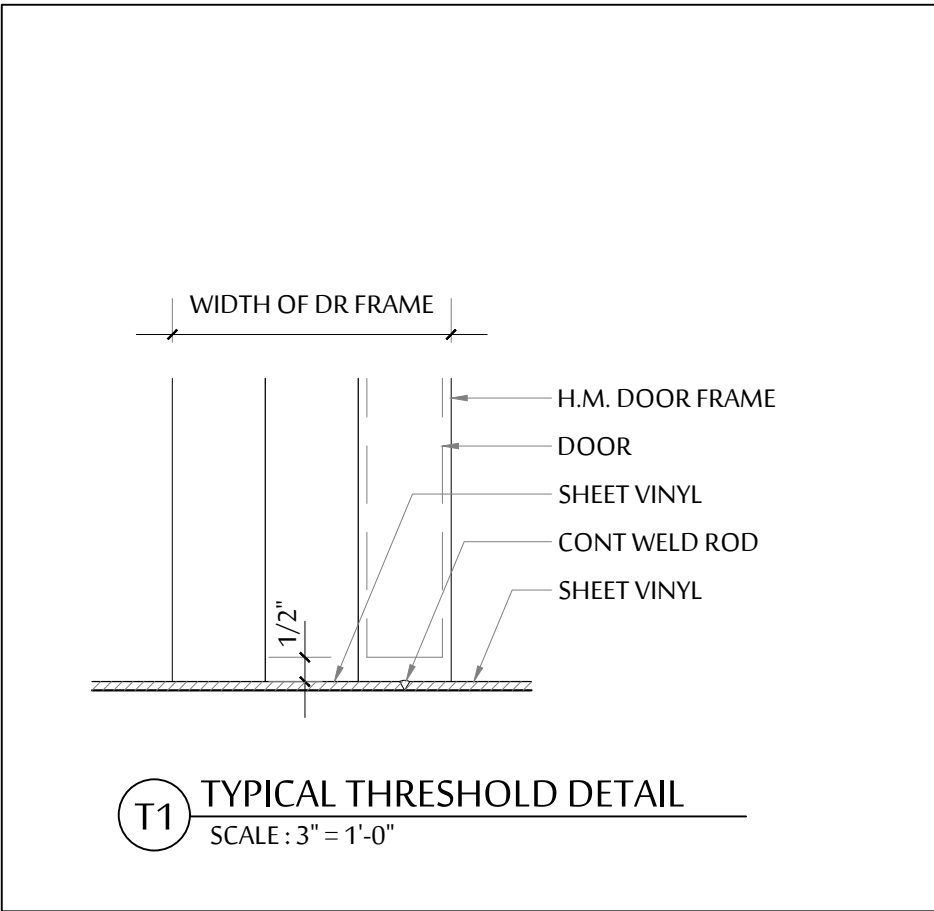
PHASE 2 - GEN FLUORO
WALL SCHEDULE

SCALE:
AS NOTED
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

PHASE 2
A5.01

DOOR HARDWARE SCHEDULE				
HARDWARE #	QTY	DESCRIPTION	MANUFACTURER	SPECIFICATION
HW1 (GEN FLUORO ROOM)	8	HINGE	MCKINNEY	4 1/2" X 4 1/2" HEAVY WT MPB68
	1	LOCKSET	SCHLAGE	L9456P-06B - 1/16" (4LB) LEAD LINED ON SITE
	4	DOOR PROTECTION	ACROVYN	ACROVYN 4000 - KICK PLATE - KP-60N (COLOUR : OYSTER GRAY 929) - FIRE RATED
	1	ASTRAGAL	PEMKO	355_S "T" ASTRAGAL - 1/16" (4LB) LEAD LINED ON SITE
	2	DOOR SWEEP	PEMKO	412SRL (ROOM SIDE SURFACE)
	2	FLUSH BOLT	GSH	401
HW2 (CONTROL ROOM)	4	HINGE	MCKINNEY	4 1/2" X 4 1/2" HEAVY WT MPB68
	1	LOCKSET	SCHLAGE	L9456P-06B - 1/16" (4LB) LEAD LINED ON SITE
	1	DOOR SWEEP	PEMKO	412SRL (ROOM SIDE SURFACE)
	1	WALL STOP	GSH	250 (PROVIDE BACKING BEHIND DRYWALL)
	2	DOOR PROTECTION	ACROVYN	ACROVYN 4000 - KICK PLATE - KP-60N (COLOUR : OYSTER GRAY 929) - FIRE RATED
	8	HINGE	MCKINNEY	4 1/2" X 4 1/2" HEAVY WT MPB68
HW3 (RECOVERY ROOM)	1	LOCKSET	SCHLAGE	CLASSROOM LOCK - L9070-06B
	1	AUTOMATIC DOOR OPERATOR	NABCO GYRO TECH	G18500 - OPMAX CONFIGURATION (LARGER OF THE TWO DOOR LEAFS TO CONTAIN AUTOMATIC DOOR OPERATOR) - PULL (INSTALLED ON ROOM SIDE) - CLEAR FINISH - SURFACE APPLIED MOUNTING
	4	DOOR PROTECTION	ACROVYN	ACROVYN 4000 - KICK PLATE - KP-60N (COLOUR : OYSTER GRAY 929) - FIRE RATED
	1	ASTRAGAL	PEMKO	355_S "T" ASTRAGAL
	2	DOOR SWEEP	PEMKO	412SRL (ROOM SIDE SURFACE)
	1	ELECTRIC STRIKE	VON DUPRIN	6200 SERIES - CYLINDRICAL OR MORTISE
	2	PUSH BUTTON	SEE ELEC SPECS	PUSH BUTTON TO OPERATE AUTOMATIC DOOR CLOSER & ELECTRIC STRIKE
	1	WALL STOP	GSH	250 (PROVIDE BACKING BEHIND DRYWALL)
	2	FLUSH BOLT	GSH	401
	4	HINGE	MCKINNEY	MACPRO MPB79 FULL MORTISE STANDARD WEIGHT BEARING 4 1/2" X 4"
HW4 (CLERICAL SPACE)	1	LOCKSET	SCHLAGE	OFFICE AND INNER ENTRY LOCK - L9050P-06B
	1	CLOSER	LCN	4040XP - PULL SIDE & METAL COVER
	2	DOOR PROTECTION	ACROVYN	ACROVYN 4000 - KICK PLATE - KP-60N (COLOUR : OYSTER GRAY 929) - FIRE RATED
	1	WALL STOP	GSH	250 (PROVIDE BACKING BEHIND DRYWALL)
	1	ELECTRIC STRIKE	VON DUPRIN	6200 SERIES - CYLINDRICAL OR MORTISE
	2	DOOR SWEEP	PEMKO	412SRL (ROOM SIDE SURFACE)
HW5 (CLERICAL SPACE - OFFICE)	1	CARD READER	SEE ELEC SPECS	CARD READER TO OPERATE ELECTRIC STRIKE
	4	HINGE	MCKINNEY	MACPRO MPB79 FULL MORTISE STANDARD WEIGHT BEARING 4 1/2" X 4"
	1	LOCKSET	SCHLAGE	OFFICE AND INNER ENTRY LOCK - L9050P-06B
	1	CLOSER	LCN	4040XP - PULL SIDE & METAL COVER
	2	DOOR PROTECTION	ACROVYN	ACROVYN 4000 - KICK PLATE - KP-60N (COLOUR : OYSTER GRAY 929) - FIRE RATED
HW6 (CLERICAL SPACE - OFFICE)	1	WALL STOP	GSH	250 (PROVIDE BACKING BEHIND DRYWALL)
	1	WALL STOP	GSH	250 (PROVIDE BACKING BEHIND DRYWALL)
NOTE: 1. SINGLE DOOR FRAME TO COME WITH 3 RUBBER BUMPERS ON SIDE OF FRAME AND DOUBLE DOOR FRAME WITH 2 ON TOP OF FRAME 2. INSTALL IN-WALL PLYWOOD BACKING FOR ALL WALL STOPS				

DOOR & FRAME SCHEDULE																								
DOOR NUMBER	LOCATION		DOOR										FRAME						GLASS				FIRE RATING	NOTES
	FROM	TO	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	CORE	FINISH	HARDWARE SET	LEAD LINING	MAT'L	FRAME TYPE	JAMB TYPE	HEAD TYPE	FINISH	LEAD LINING	THRESHOLD	GLASS					
																			LAM TEMPERED	TEMPERED	GEORGIAN WIRE	LOW-E		
EX01	NEW GEN FLUORO ROOM	EX RM FOR CT SCAN 1099	A	3'-0"	7'-0"	1 3/4"	WOOD	SOLID	PAINT PT4	EX	EX	HM	EX	EX	EX	PAINT PT4	EX	T1	-	-	-	-	-	
EX02	EX RM FOR CT SCAN 1099	EQUIP RM FOR GEN FLUORO	A	3'-0"	7'-0"	1 3/4"	WOOD	SOLID	PAINT PT4	EX	-	HM	EX	EX	EX	PAINT PT4	EX	T1	-	-	-	-	-	
EX03	NEW RECOVERY ROOM	EX WASHROOM 1122	A	3'-0"	7'-0"	1 3/4"	WOOD	SOLID	PAINT PT4	EX	-	HM	EX	EX	EX	PAINT PT4	EX	T1	-	-	-	-	-	
D01	CORRIDOR 1110	NEW GEN FLUORO ROOM	E	3'-6" + 10"	7'-0"	1 3/4"	WOOD	SOLID	PAINT PT4	HW1	1.6mm (4lb)	HM	B	J1	H1	PAINT PT4	1.6mm (4lb)	T1	-	-	-	-	-	
D02	CORRIDOR 1110	GEN FLUORO CONTROL RM	B	3'-0"	7'-0"	1 3/4"	GLASS & WOOD	SOLID	PAINT PT4	HW2	1.6mm (4lb)	HM	A	J1	H1	PAINT PT4	1.6mm (4lb)	T1	-	X	-	-	-	
D03	CORRIDOR 1135	NEW RECOVERY ROOM	C	3'-6" + 10"	7'-0"	1 3/4"	GLASS & WOOD	SOLID	PAINT PT4	HW3	-	HM	B	J1	H1	PAINT PT4	-	T1	-	X	-	-	-	
D04	CORRIDOR 5 1121	NEW RECOVERY ROOM	C	3'-6" + 10"	7'-0"	1 3/4"	GLASS & WOOD	SOLID	PAINT PT4	HW3	-	HM	B	J1	H1	PAINT PT4	-	T1	-	X	-	-	-	
D05	CORRIDOR 1353	CLERICAL AREA	D	3'-0"	7'-0"	1 3/4"	GLASS & WOOD	SOLID	PAINT PT5	HW4	-	HM	A	J1	H1	PAINT PT5	-	T1	-	X	-	-	-	
D06	CLERICAL AREA	OFFICE	A	3'-0"	7'-0"	1 3/4"	WOOD	SOLID	PAINT PT5	HW5	-	HM	A	J1	H1	PAINT PT5	-	T1	-	-	-	-	-	⚠
D07	CORRIDOR 1145	PORTER ROOM	D	3'-0"	7'-0"	1 3/4"	WOOD	SOLID	PAINT PT5	HW5	-	HM	A	J1	H1	PAINT PT5	-	T1	-	X	-	-	-	FRAME ONLY
D08	CORRIDOR 5 1121	X-RAY CONTROL RM	-	3'-0"	7'-0"	-	-	-	-	-	-	HM	A	J1	H1	PAINT PT5	-	T1	-	-	-	-	-	
NOTE: 1. RE-KEY ALL EXISTING DOOR LOCKS 2. SEE MECH DWG FOR DETAILS AND SPECS OF TRANSFER GRILLE																								
DOOR TYPE												FRAME TYPE												
																								
DOOR TYPE A (SINGLE DOOR)												FRAME TYPE A (SINGLE DOOR)												
DOOR TYPE B (SINGLE DOOR W/ VISION PANEL)												FRAME TYPE B (DOUBLE DOOR)												
DOOR TYPE C (DOUBLE DOOR W/ VISION PANEL)																								
DOOR TYPE D (WITH VISION PANEL)																								
DOOR TYPE E (DOUBLE DOOR)																								



H1: HM Door Head Detail
SCALE: 3" = 1'-0"

WINDOW SCHEDULE			
W01 - EXISTING HM WINDOW WITH 2mm LEAD EQUIVALENT GLASS	W02A - U-CHANNEL WINDOW AT NURSE STATION	W02B - U-CHANNEL WINDOW AT NURSE STATION	W03 - REFER TO MILLWORK DRAWINGS (MW07) FOR DETAILS

12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
11	ISSUED FOR BP REVISION 1	AUG 4, 2021	RC
10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	NOT ISSUED	-	-
8	TENDER ADDENDUM 1	JUNE 10, 2021	RC
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
5	ISSUED FOR BP SUBMISSION	MAY 7, 2021	RC
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
NO.	REVISION	DATE	BY

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ROOM FINISH SCHEDULE									
LOCATION		WALL (SEE NOTE 2 & 3)				FLOOR (SEE NOTE 1)	BASE	CEILING	NOTES
-	ROOM NAME / RM#	NORTH	EAST	SOUTH	WEST				
	GENERAL FLUORO ROOM	PAINT PT1	PAINT PT1	PAINT PT1	PAINT PT2	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	SUSP CEILING ATC1	SEE DWG A2.03 FOR ACCENT WALL EXTENT
	CONTROL ROOM	PAINT PT1	PAINT PT2	PAINT 1	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	SUSP CEILING ATC1	SEE DWG A2.03 FOR ACCENT WALL EXTENT
	EQUIPMENT ROOM	PAINT PT1	PAINT PT1	PAINT PT1	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	SUSP CEILING ATC1	
	CORRIDOR 1110	PAINT PT8	PAINT PT8	PAINT PT8	PAINT PT8	SHEET VINYL SV2	INTEGRAL COVE BASE SV2	MATCH EXISTING	
	RECOVERY ROOM	PAINT PT2	PAINT PT1	PAINT PT2	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	SUSP CEILING ATC1	SEE DWG A2.03 FOR ACCENT WALL EXTENT
	CLERICAL SPACE	PAINT PT1	PAINT PT1	PAINT PT1	PAINT PT1	SHEET VINYL SV4	INTEGRAL COVE BASE SV4	SUSP CEILING ATC2	-
	CLERICAL OFFICE	PAINT PT1	PAINT PT1	PAINT PT1	PAINT PT1	SHEET VINYL SV4	INTEGRAL COVE BASE SV4	SUSP CEILING ATC2	
	CORRIDOR & SERVICE ELEVATOR	PAINT PT8	PAINT PT8	PAINT PT8	PAINT PT8	SHEET VINYL SV5	INTEGRAL COVE BASE SV5	MATCH EXISTING	
	SUPPLY STORAGE ROOM	PAINT PT1	PAINT PT1	PAINT PT1	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	MATCH EXISTING	
	CONTROL ROOM	PAINT PT1	PAINT PT2	PAINT PT1	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	MATCH EXISTING	SEE DWG A2.03 FOR ACCENT WALL EXTENT
	RAD OFFICE	PAINT PT1	PAINT PT1	PAINT PT1	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	MATCH EXISTING	
	PORTER ROOM	PAINT PT2	PAINT PT1	PAINT PT1	PAINT PT1	SHEET VINYL SV1	INTEGRAL COVE BASE SV1	MATCH EXISTING	SEE DWG A2.03 FOR ACCENT WALL EXTENT
GENERAL NOTES: 1. PATCH & SKIM COAT TO LEVEL EX FLOOR BEFORE INSTALLING SHEET VINYL FLOOR 2. ALLOW 1 ACCENT WALL PAINT COLOR - FINAL LOCATIONS TO BE DETERMINED ON SITE 3. PATCH & MAKE GOOD EX WALLS BEFORE PROVIDING NEW PAINT FINISH 4. SEE DWG 4/A5.04 FOR INTEGRAL SHEET VINYL WALL BASE DETAIL									

FINISHES & FIXTURES SCHEDULE

	DESCRIPTION	TYPE	SIZE	BRAND	MODEL	COLOR/FINISH	NOTES
PAINT	WALL - FIELD COLOR	PT1	-	DULUX	LIFEMASTER (ZERO VOC)	ENDURING ICE - DLX1102-1	SHEEN : EGGSHELL
	WALL - ACCENT COLOR 1	PT2	-	DULUX	LIFEMASTER (ZERO VOC)	EMBELLISHMENT - DLX1151-2	SHEEN : EGGSHELL PROVIDE 3' X 3' MOCK UP OF THE ACCENT COLOR ON SITE FOR FINAL DECISION
	WALL - ACCENT COLOR 2 (NOT USED)	PT3	-	DULUX	LIFEMASTER (ZERO VOC)	-	SHEEN : EGGSHELL PROVIDE 3' X 3' MOCK UP OF THE ACCENT COLOR ON SITE FOR FINAL DECISION
	DOOR & FRAME (PHASE 2B & 2C)	PT4	-	DULUX	LIFEMASTER (ZERO VOC)	MOTH GRAY - DLX1024-4	SHEEN : SEMI-GLOSS
	DOOR & FRAME (PHASE 2A)	PT5	-	DULUX	LIFEMASTER (ZERO VOC)	MOTH GRAY - DLX1024-4	SHEEN : SEMI-GLOSS
	CEILING	PT6	-	DULUX	LIFEMASTER (ZERO VOC)	DELICATE WHITE - DLX1001-1	SHEEN : FLAT
	WOOD WINDOW FRAME	PT7	-	DULUX	LIFEMASTER (ZERO VOC)	ENDURING ICE - DLX1102-1	SHEEN : SEMI-GLOSS
	WALL - CORRIDOR	PT8	-	DULUX	LIFEMASTER (ZERO VOC)	MATCH EXISTING	SHEEN : MATCH EXISTING
FLOORING	SHEET VINYL - FIELD COLOUR (PHASE 2A, 2B & 2C)	SV1	2mm THICK	JOHNSONITE	IQ GRANIT	770 SOFT FLEECE WB	SEE FINISHES PLAN DWG A2.03 FOR EXTENT C/W 6" H INTEGRAL COVE BASE
	SHEET VINYL - CORRIDOR BORDER INFILL (PHASE 2B & 2C)	SV2	2mm THICK	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	SEE FINISHES PLAN DWG A2.03 FOR EXTENT C/W INTEGRAL COVE BASE TO MATCH EXISTING HEIGHT
	SHEET VINYL - EX REPORT 2 1116 (PHASE 2C)	SV3	2mm THICK	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	SEE FINISHES PLAN DWG A2.03 FOR EXTENT C/W INTEGRAL COVE BASE TO MATCH EXISTING HEIGHT
	SHEET VINYL - FIELD COLOUR (PHASE 2A)	SV4	2mm THICK	JOHNSONITE	IQ GRANIT	445 VINTAGE	SEE FINISHES PLAN DWG A2.03 FOR EXTENT C/W 6" H INTEGRAL COVE BASE
	SHEET VINYL - CORRIDOR BORDER INFILL (PHASE 2A)	SV5	2mm THICK	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	SEE FINISHES PLAN DWG A2.03 FOR EXTENT C/W INTEGRAL COVE BASE TO MATCH EXISTING HEIGHT
	SHEET VINYL - RECEPTION FIELD COLOUR (PHASE 2A)	SV6	2mm THICK	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	SEE FINISHES PLAN DWG A2.03 FOR EXTENT C/W INTEGRAL COVE BASE TO MATCH EXISTING HEIGHT
	PLAS LAM-BASE CABINET	PL1	-	NEVAMAR	HIGH PRESSURE LAMINATE	CHARLIE BLUE S5023-T	FINISH: ARP (T)
	PLAS LAM-UPPER CABINET	PL2	-	NEVAMAR	THRUCOLOR	CHALK WHITE S7024-T	FINISH: ARP (T-)
MILLWORK	PLAS LAM-COUNTER TOP	PL3	-	NEVAMAR	THRUCOLOR	GARDEN MIST SG0004-T	FINISH: ARP (T-)
	PLAS LAM-BASE CABINET	PL4	-	NEVAMAR	THRUCOLOR	DRY CREEK PLUM TREE WZ6001	FINISH: ARP (T-)
	PLAS LAM-UPPER CABINET	PL5	-	NEVAMAR	THRUCOLOR	CHALK WHITE S7024-T	FINISH: ARP (T-)
	PLAS LAM-COUNTER TOP	PL6	-	NEVAMAR	THRUCOLOR	WILD OATS MATRIX MR7002	FINISH: ARP (T-)
	SOLID SURFACING COUNTERTOP (NOT USED)	SC1	1/2" THICK	DUPONT CORIAN	-	-	-
	DOOR HANDLE	DH1	-	RICHELIEU	1076CV	CHROME	-
	CORNER GUARD 90 DEG	CG1a	3" LEG	C/S ACROVYN 4000	SM-20N	#934 PEARL	SEE DWG A2.03 FOR HEIGHT & LOCATION
	CORNER GUARD 90 DEG	CG1b	3" LEG	C/S ACROVYN 4000	SM-20N	MATCH CORRIDOR WALL	SEE DWG A2.03 FOR HEIGHT & LOCATION
WALL PROTECTION	CORNER GUARD 90 DEG	CG1c	3" LEG	C/S ACROVYN 4000	SM-20N	#934 PEARL	SEE DWG A2.03 FOR HEIGHT & LOCATION
	CORNER GUARD 135 DEG	CG2	3" LEG	C/S ACROVYN 4000	SM-20MN	MATCH CORRIDOR WALL	SEE DWG A2.03 FOR HEIGHT & LOCATION
	CRASH RAIL	CR1	8" H	C/S ACROVYN	SCR-80	#934 PEARL	ALUMINUM CLIP, SURFACE MOUNTED
	CRASH RAIL	CR2	5" H	C/S ACROVYN	SCR-50	#934 PEARL	ALUMINUM CLIP, SURFACE MOUNTED
	CRASH RAIL	CR3	MATCH EX	C/S ACROVYN	MATCH EX	MATCH EX	ALUMINUM CLIP, SURFACE MOUNTED
	WALL PROTECTION	WP1	0.06" THK	C/S ACROVYN 4000	-	#934 PEARL	COMPLETE WITH COLOUR MATCHING CAULKING AT BUTT JOINT & WAINSCOT TRIM ON EXPOSED TOP & SIDES
	WALL PROTECTION	WP2	0.09" THK	PANOLAM	FRP	WHITE (CLASSIC COLLECTION) SMOOTH (SURFACE TEXTURE)	COMPLETE WITH COLOUR MATCHING CAULKING AT BUTT JOINT & WAINSCOT TRIM ON EXPOSED TOP & SIDES
	WALL PROTECTION	WP3	0.06" THK	C/S ACROVYN 4000	-	MATCH EX	COMPLETE WITH COLOUR MATCHING CAULKING AT BUTT JOINT & WAINSCOT TRIM ON EXPOSED TOP & SIDES
CEILING	SUSPENDED T-BAR	ATC1	15/16"	ARMSTRONG	15/16" CLEAN ROOM ALUMINUM	WHITE	-
	ACOUSTIC CEILING PANEL		24" X 24"	ARMSTRONG	ULTIMA HEALTH ZONE HIGH NRC	WHITE	SQUARE LAY-IN PANELS NRC : 0.80 / CAC : 35
	SUSPENDED T-BAR	ATC2	15/16"	ARMSTRONG	PRELUDE XL 15/16" EXPOSED TEE	WHITE	-
	ACOUSTIC CEILING PANEL		24" X 24"	ARMSTRONG	ULTIMA HIGH NRC SQUARE LAY-IN	WHITE	SQUARE LAY-IN PANELS NRC : 0.80 / CAC : 35
PATIENT BAY CURTAIN	CURTAIN	CU1	TBD	TBD	TBD	TBD	PURCHASED BY OWNER AND INSTALLED BY VENDOR.
	CURTAIN TRACK	CT1	TBD	TBD	TBD	TBD	PURCHASED BY OWNER AND INSTALLED BY VENDOR.
GLAZING PARTITION	TRANSLUCENT FILM	TF1	-	3M	FASARA	MILKY MILKY SH2MAMM	SEE MILLWORK FOR DIMENSIONS AND LOCATION
MISCELLANEOUS	LEAD APRON HOOK	AH1	-	BOBRICK	CLOTHES HOOK B-2116	SATIN NICKEL-PLATED FINISH	COMPLETE WITH CONCEALED MOUNTING PROVIDE BACKING AS REQUIRED; SEE PLAN & ELEVATIONS FOR TOTAL NUMBER
	ROLLBOARD HOOK	RH1	-	SAMARIT	ROLLBOARD WALL MOUNT	WHITE	PROVIDE BACKING AS REQUIRED
	UNDER DESK CABLE TRAY ORGANIZER	CTO1	23.6" W	PROGRESSIVE DESK	D0-06-BLACK	BLACK POWDER COATED STEEL	MOUNT TO UNDERSIDE OF DESK
	SPEAK-THRU	ST1	5" DIAM.	CRL	TTU1DJB1	SATIN ANODIZED	THRU-GLASS TWO-WAY ELECTRONIC COMMUNICATOR 115V AC MODEL
	HEADWALL SYSTEM	RR-EQ04	4' LONG	AMICO	MAJESTIC SERIES	TBD	MAJESTIC SERIES HORIZONTAL HEADWALL SYSTEM - SINGLE TIER - NO CHASE SEE DWG A4.02 FOR LOCATION, INSTALLATION HEIGHT AND DESIGN PROVIDE IN WALL BACKING AS RECOMMENDED BY MANUFACTURER

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12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
11	ISSUED FOR BP REVISION 1	AUG 4, 2021	RC
10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	TENDER ADDENDUM 2	JUNE 16, 2021	RC
8	TENDER ADDENDUM 1	JUNE 10, 2021	RC
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	NOT ISSUED	-	-
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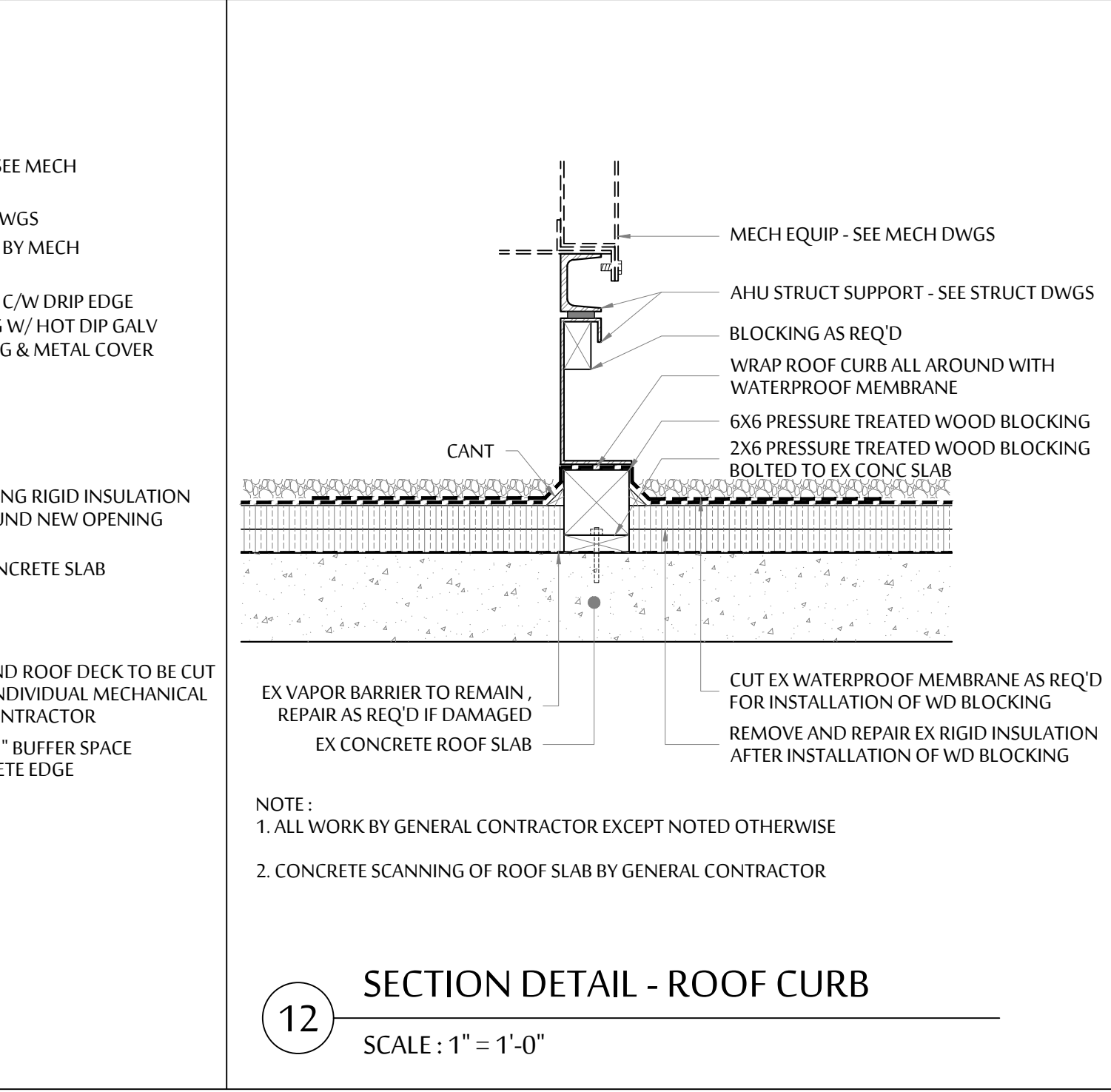
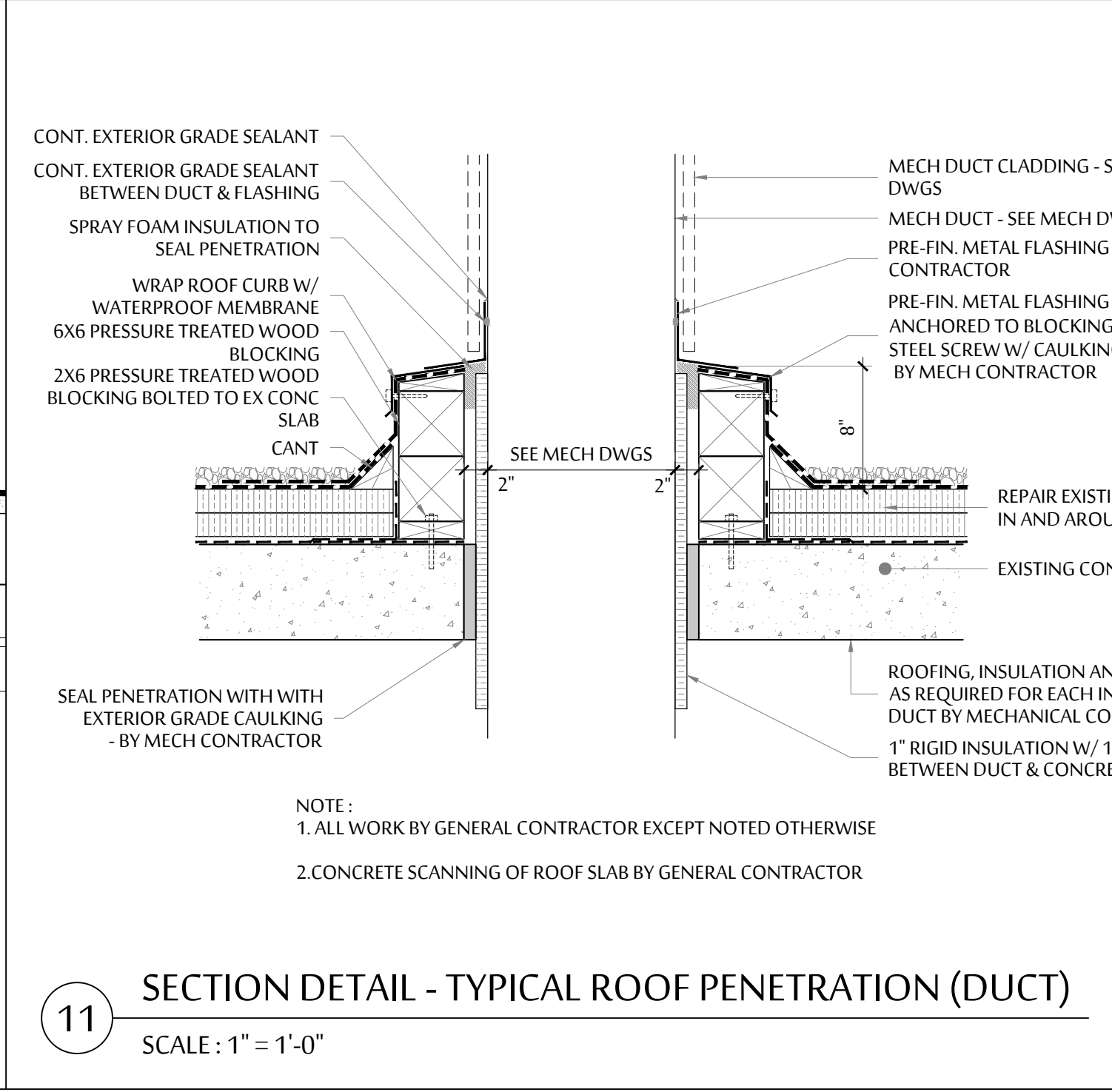
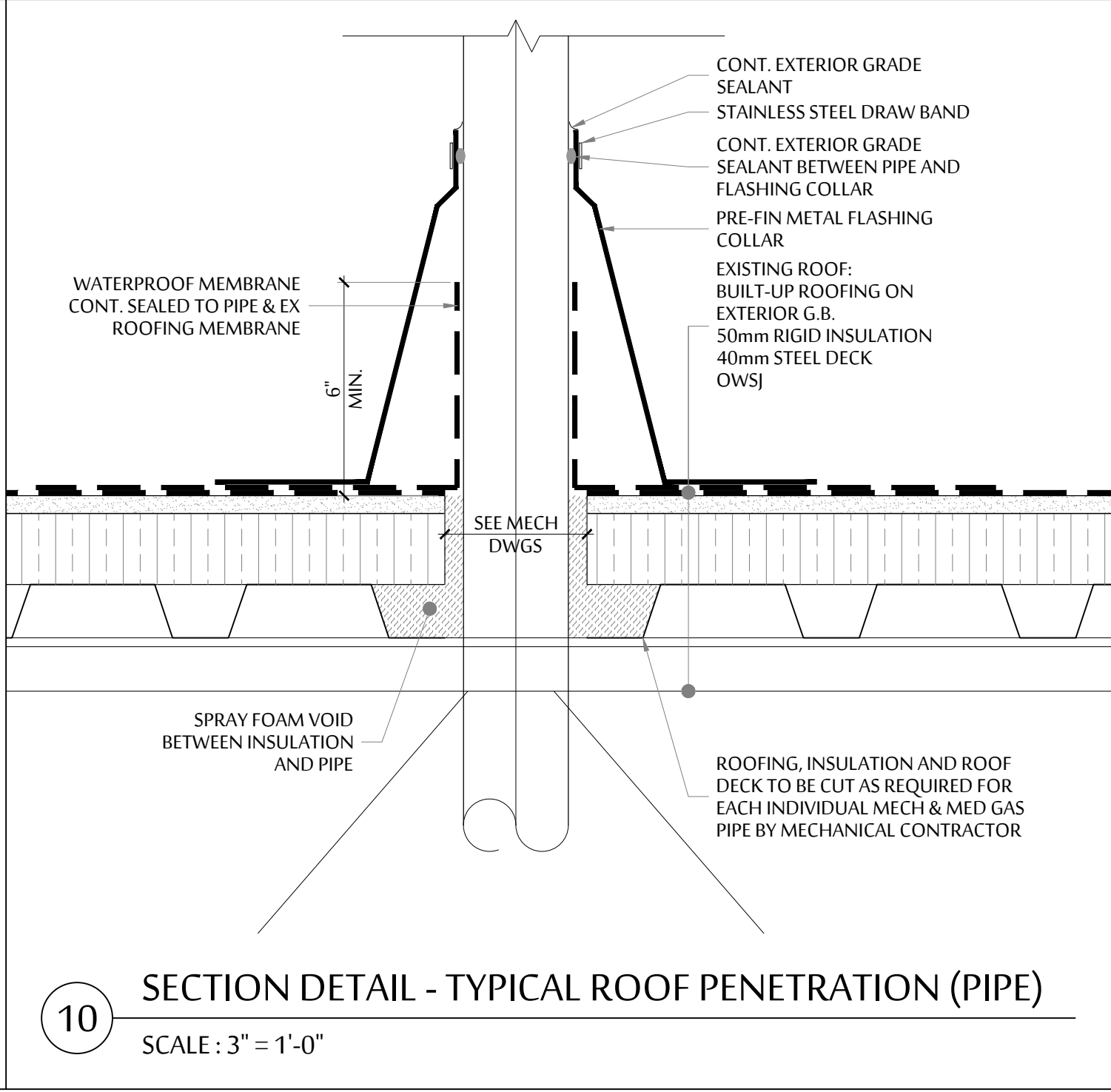
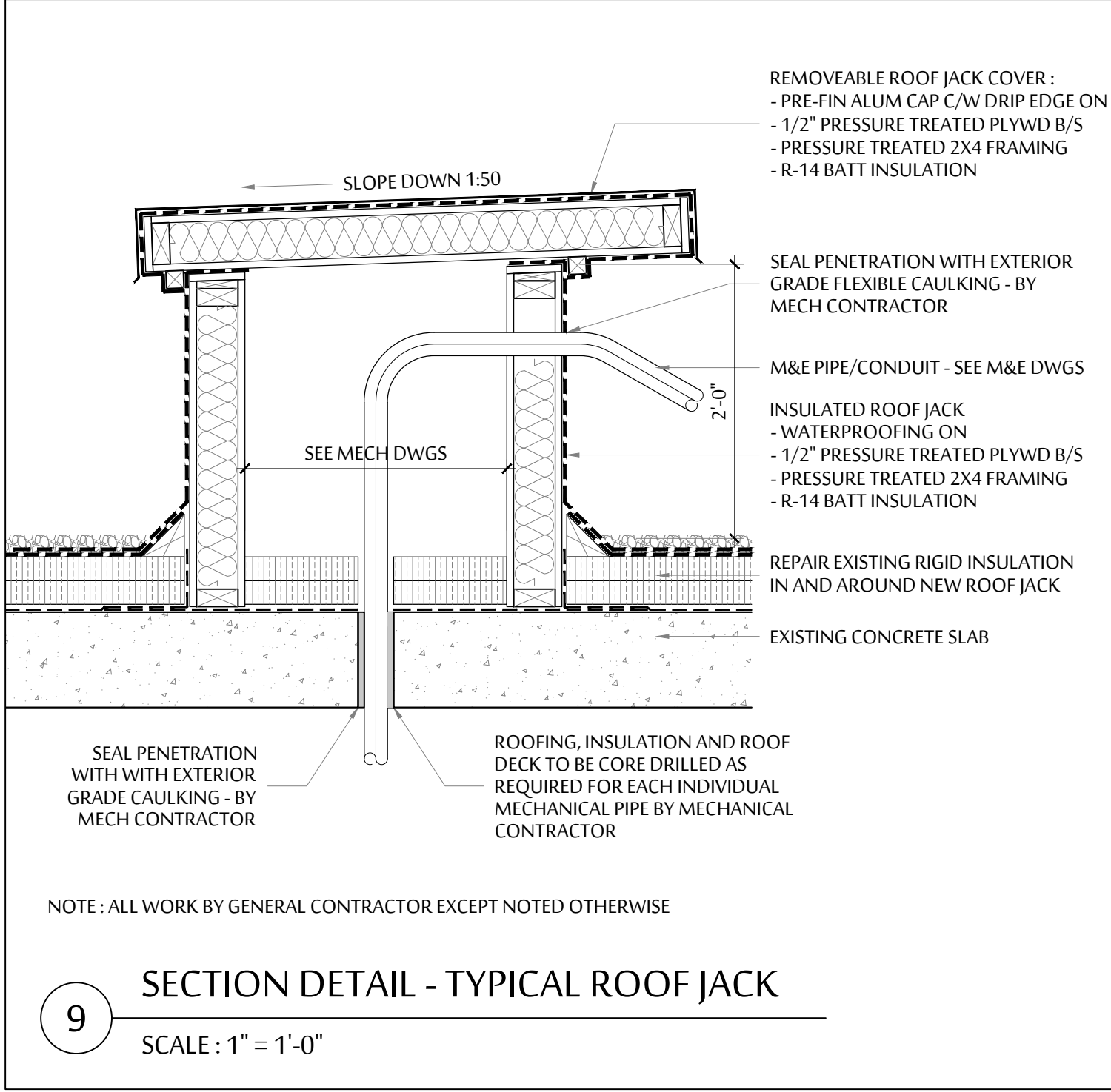
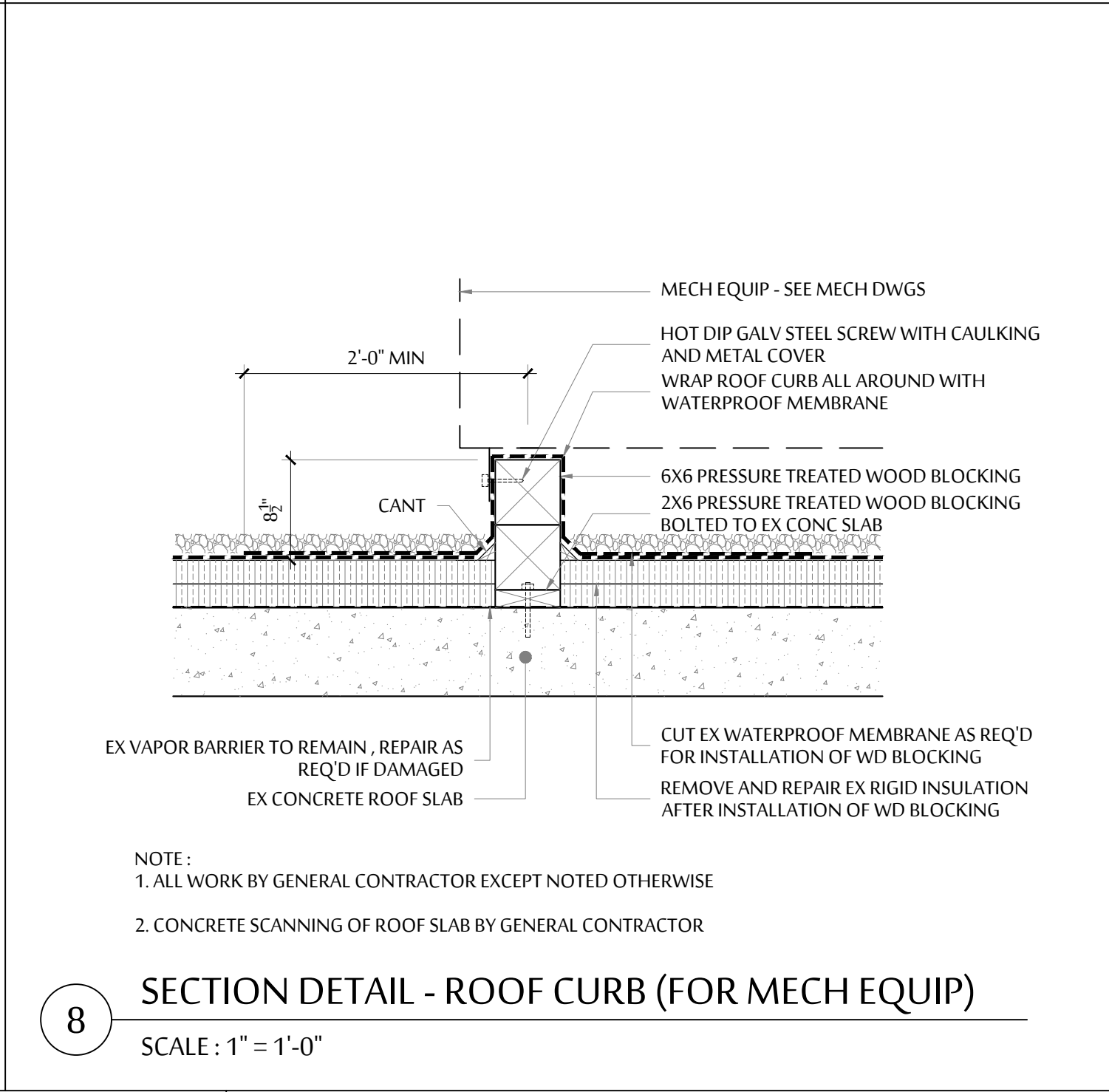
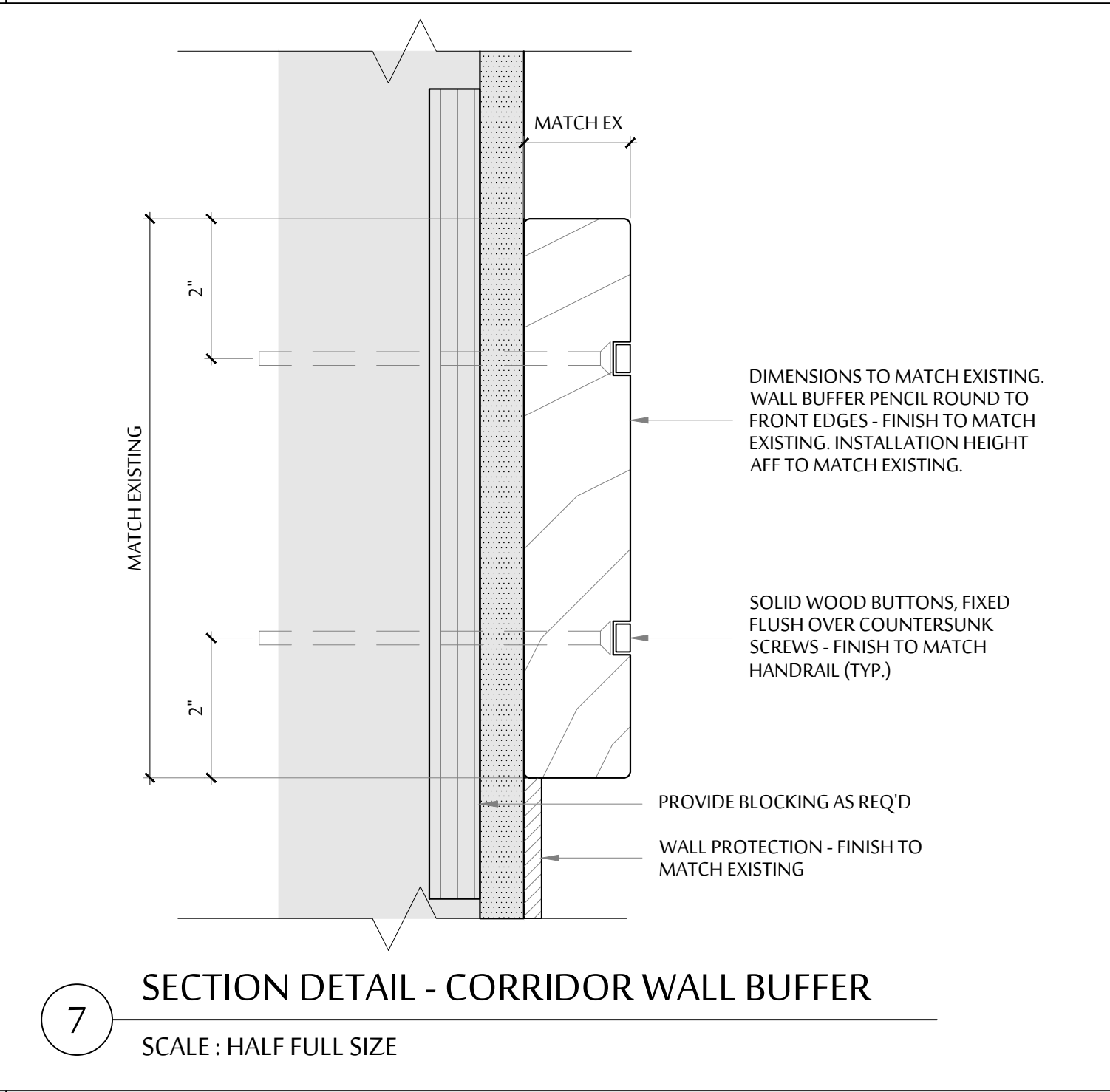
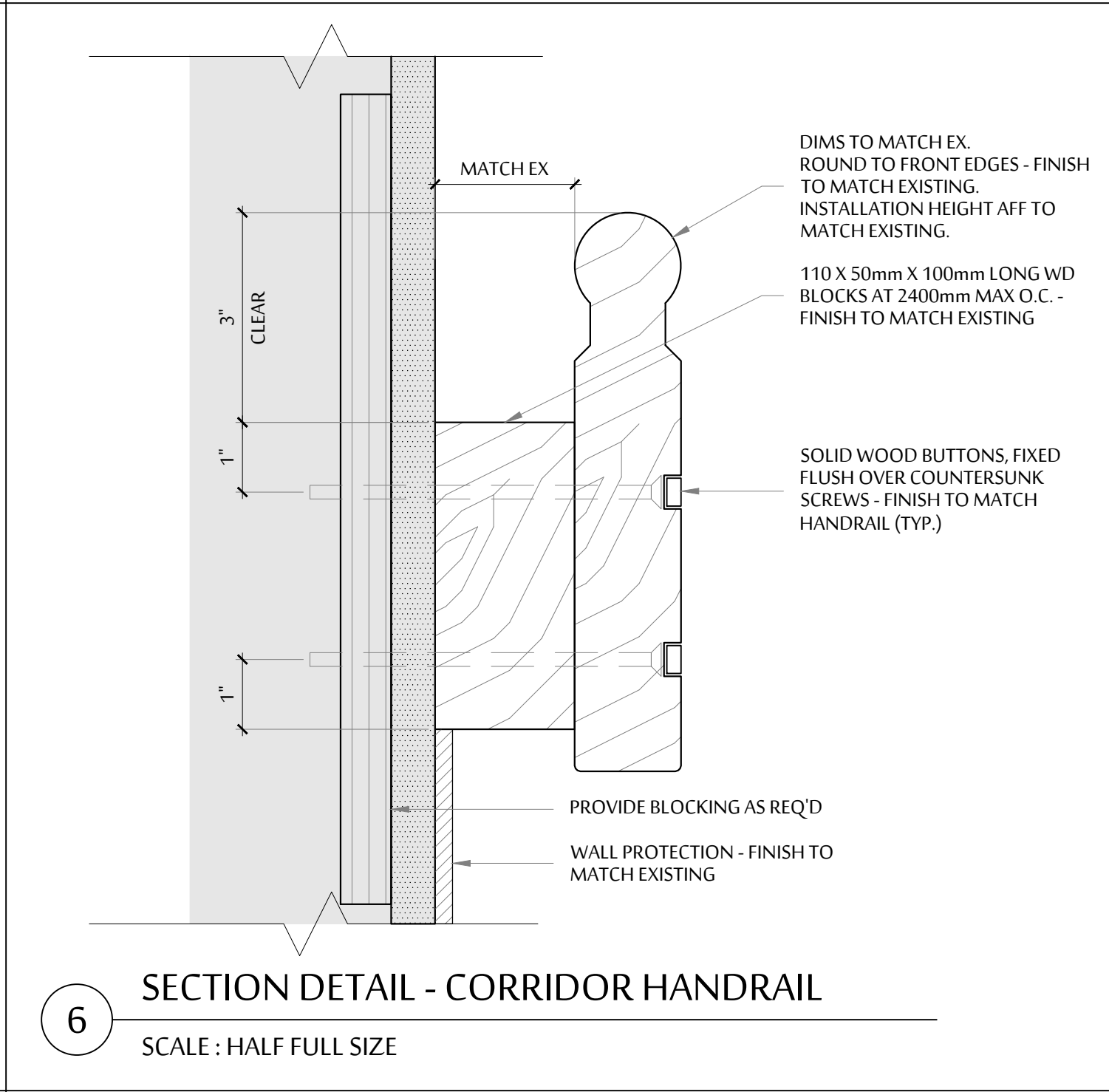
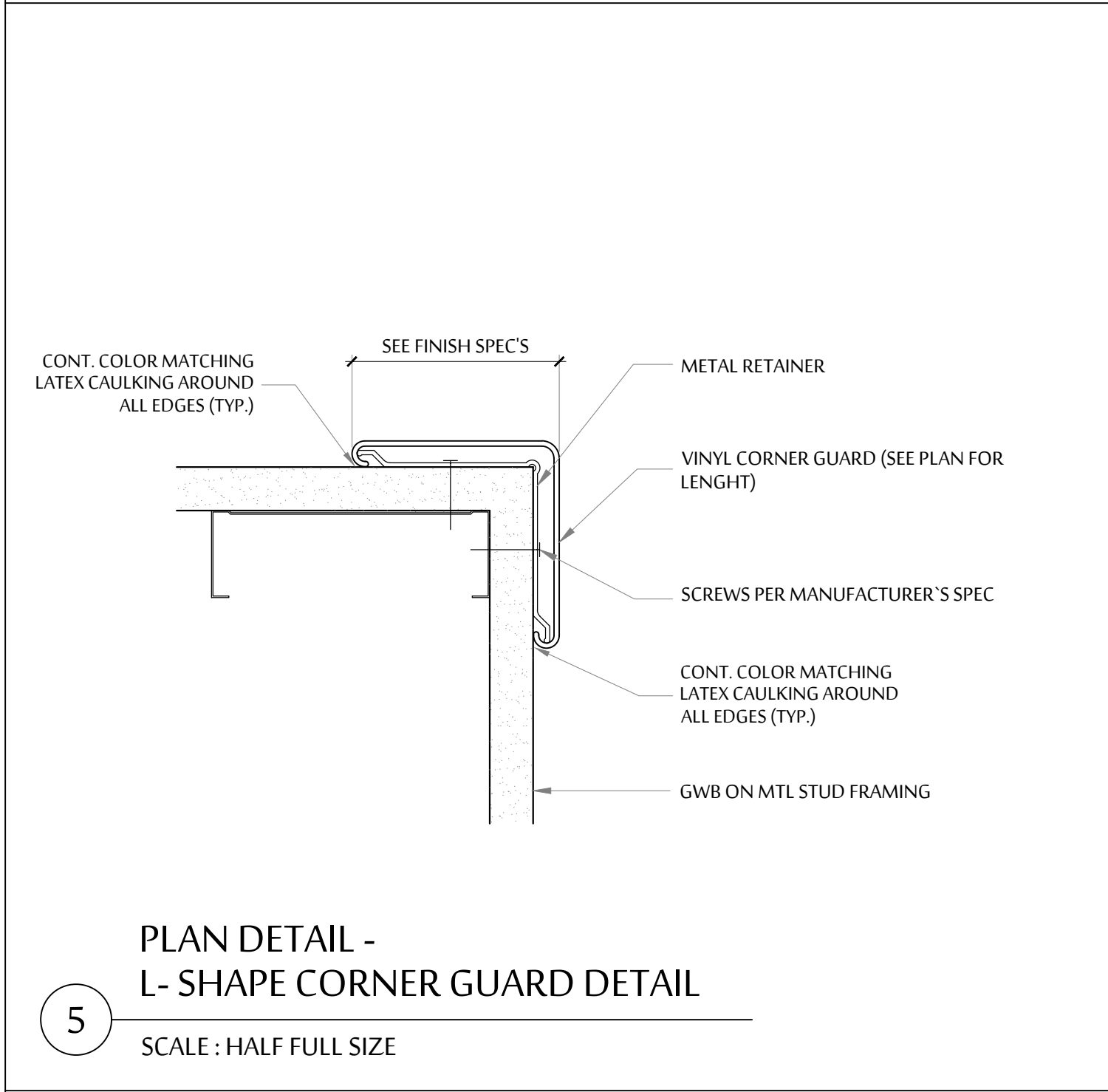
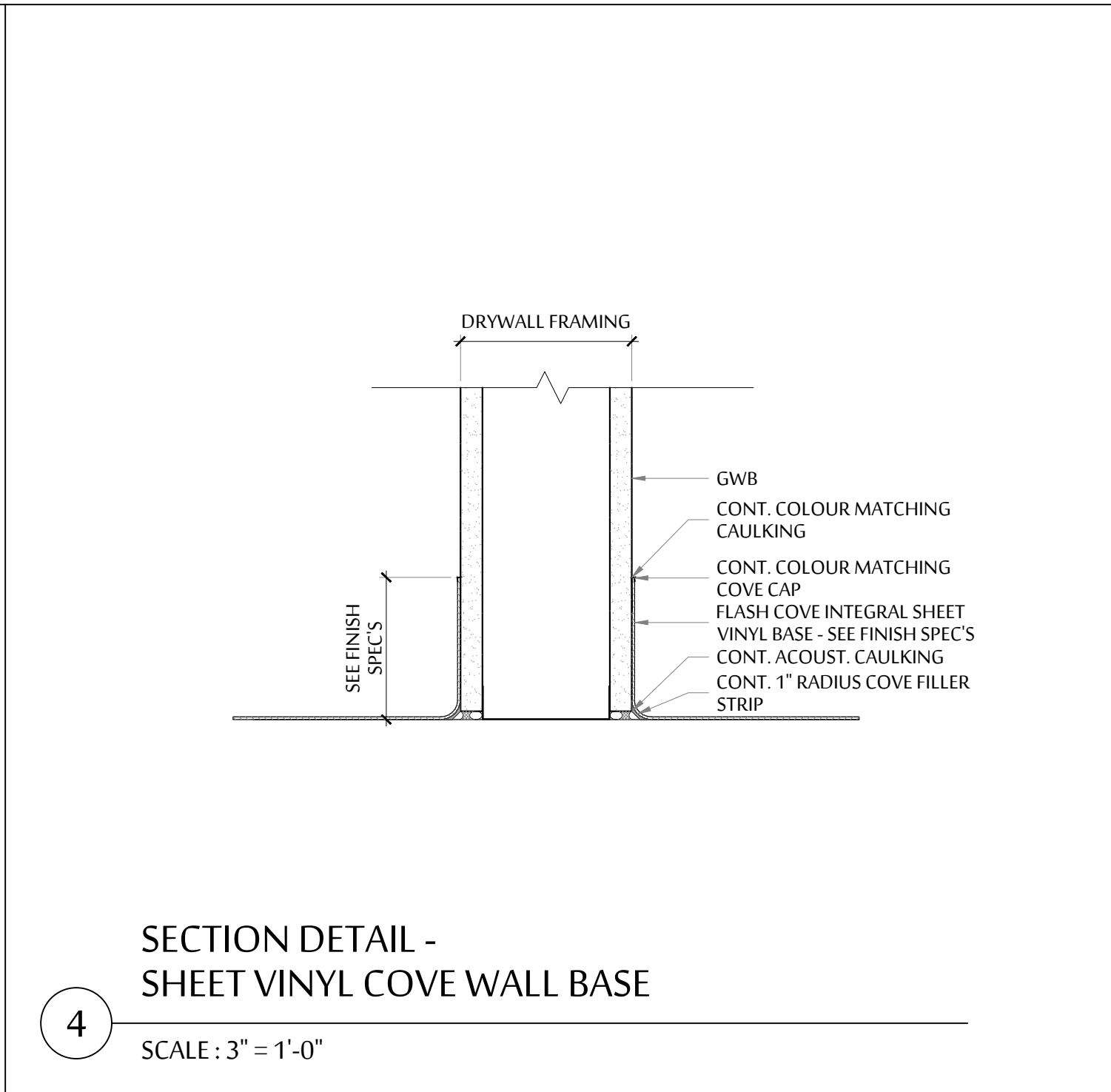
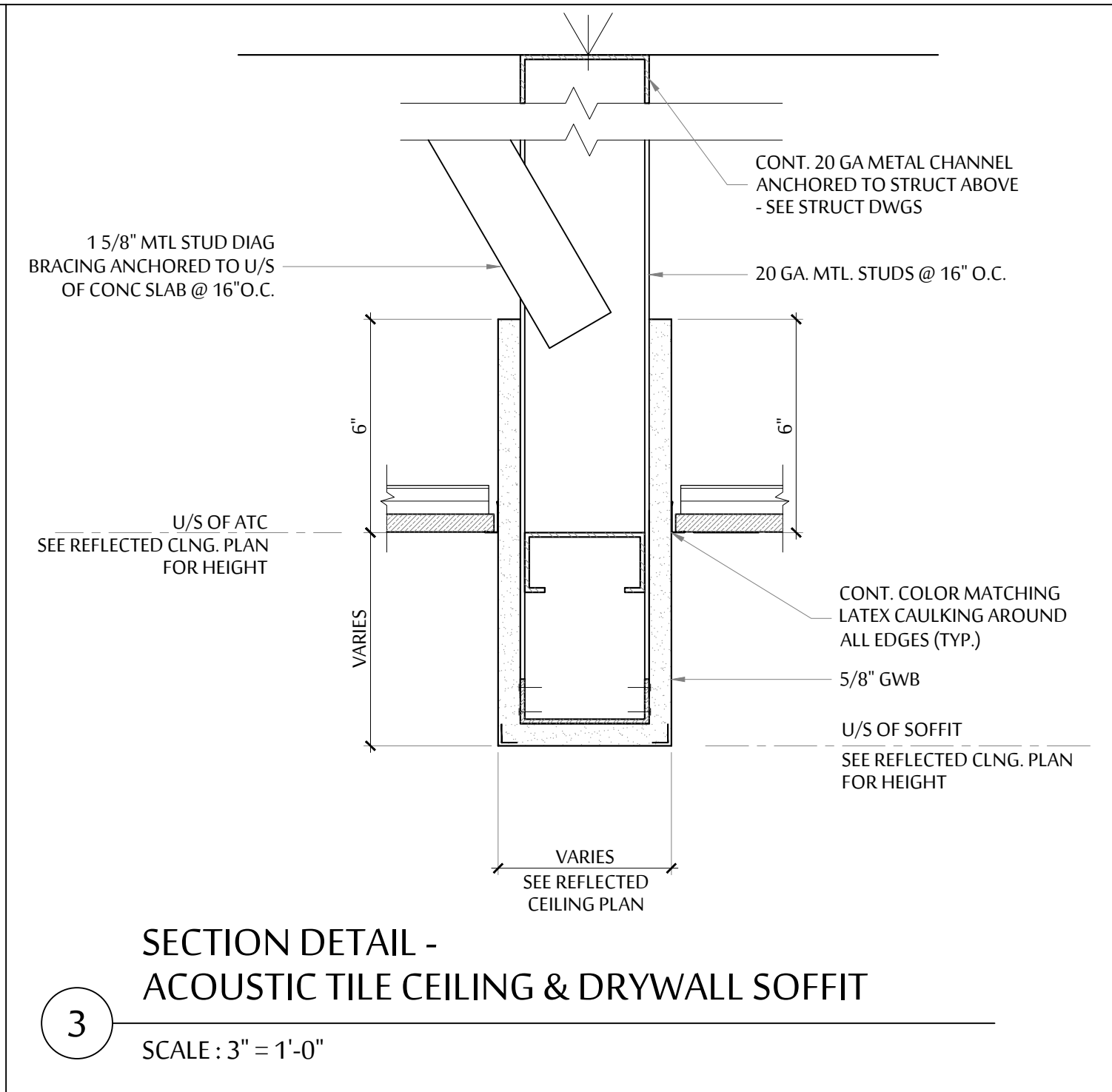
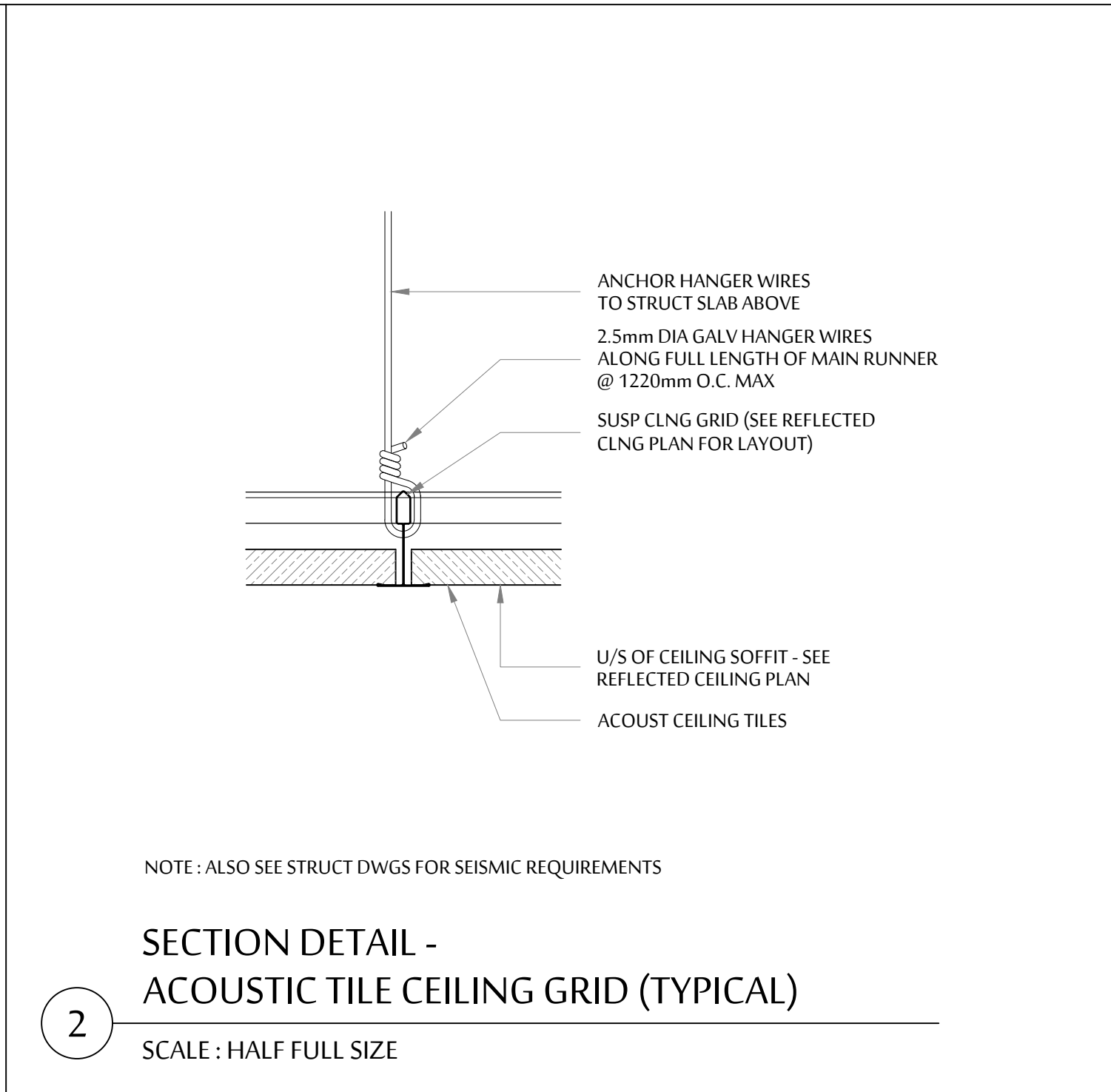
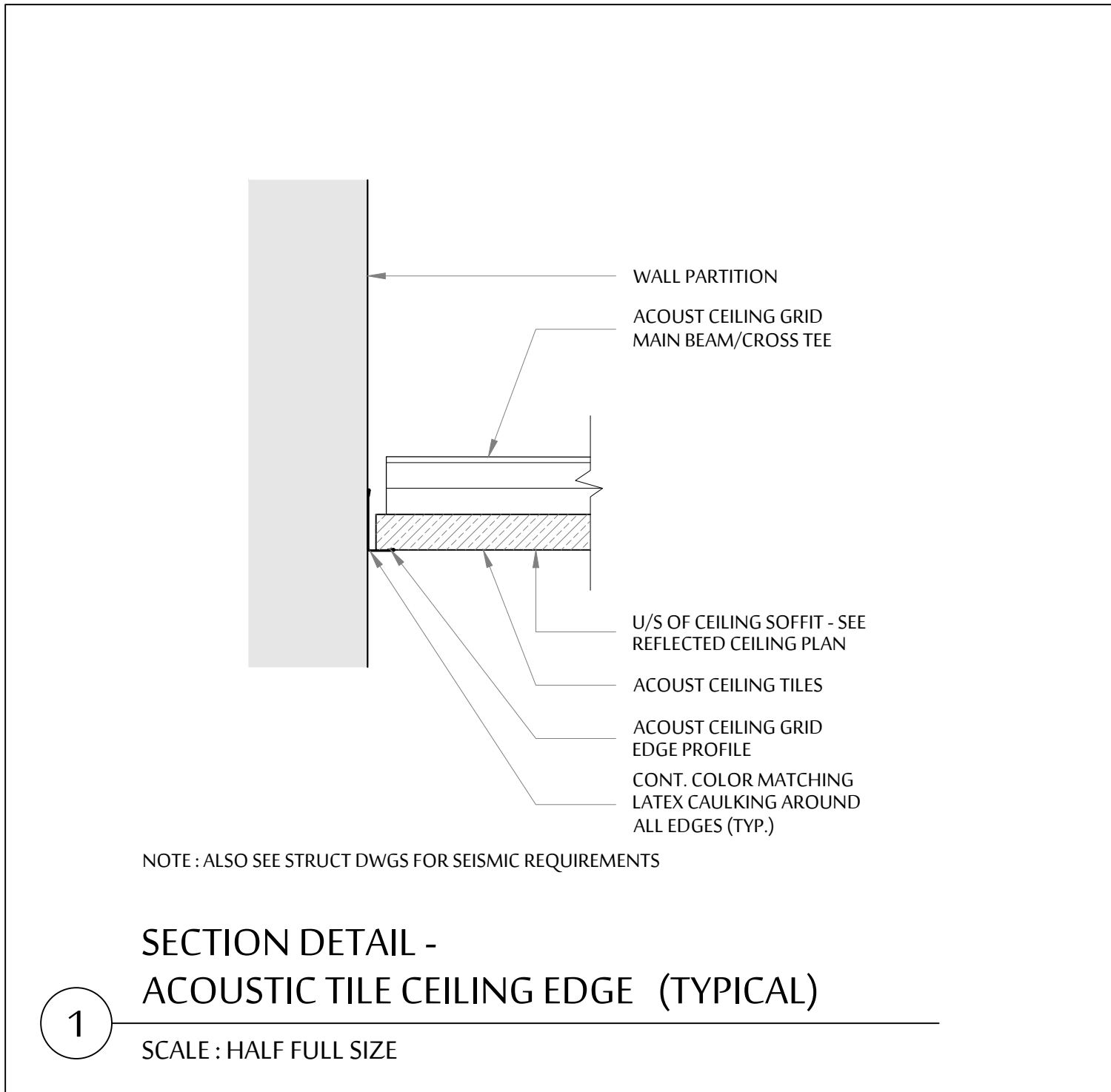
UHNBC
FLUOROSCOPY
REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
ROOM, FINISHES
& FIXTURES SCHEDULES

SCALE:
AS NOTED
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

PHASE 2
A5.03



ARCHITECT :

DCYT
ARCHITECTURE
HEALTHCARE COMMERCIAL RESIDENTIAL INTERIOR DESIGN

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10	NOT ISSUED	-	-
9	NOT ISSUED	-	-
8	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	ISSUED FOR 80% CD	MAY 21, 2021	RC
5	ISSUED FOR RP SUBMISSION	MAY 7, 2021	RC
4	NOT ISSUED	-	-
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FLUOROSCOPY
REPLACEMENT**

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

**PHASE 2 - GEN FLUORO
TYPICAL DETAILS**

SCALE:
AS NOTED

DATE:
OCTOBER 2020

DRAWN:
RC

CHECKED:
DC

JOB No.:
DCYT2009

**PHASE 2
A5.04**

NEW FURNITURE & EQUIPMENT SCHEDULE								
ROOM	CODE	UNIT	#	NEW OR EXISTING	ACTION	PERSON RESPONSIBLE TO COORDINATE	PERSON RESPONSIBLE FOR INSTALLATION (IF REQ'D)	NOTES
GENERAL FLUOROSCOPY ROOM	IR-EQ01 (PH1)	CONTRAST WARMER	1	EXISTING	RELOCATED	ROMA	N/A	-
	GFR-EQ01	HAND SANITIZER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	GFR-EQ02	SOAP DISPENSER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	GFR-EQ03	PAPER TOWEL DISPENSER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	GFR-EQ04	ACRYLIC GLOVE DISPENSER	3	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	GFR-EQ05	MEDICAL STORAGE CABINET	4	NEW	PURCHASE	CONTRACTOR	CONTRACTOR	PURCHASE ORDER TO BE PROVIDED TO CONTRACTOR
	GFR-EQ06	ROLLBOARD	1	NEW	PURCHASE	ROMA	N/A	-
	GF-F02	MOBILE S/S CART	1	EXISTING	RELOCATED	ROMA	N/A	-
CONTROL ROOM	CR2-EQ04	SCANNER	1	EXISTING	RELOCATED	ROMA	N/A	-
	CR2-F01	TASK CHAIR	2	EXISTING	RELOCATED	ROMA	N/A	-
	CR3-EQ01	HAND SANITIZER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
EX CORRIDOR 1110	CO-EQ02	LOCKERS	4	EXISTING	RELOCATED	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	LK-EQ02	LOCKERS	4	EXISTING	RELOCATED	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
RECOVERY ROOM	R-EQ01 (PH1)	STRETCHER	3	EXISTING	RELOCATED	ROMA	N/A	-
	R-EQ02 (PH1)	OVERBED TABLE	4	EXISTING	RELOCATED	ROMA	N/A	-
	R-EQ03 (PH1)	IV STAND	4	EXISTING	RELOCATED	ROMA	N/A	-
	R-EQ04 (PH1)	PATIENT MONITOR	3	EXISTING	RELOCATED	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	R-EQ06 (PH1)	MINI FRIDGE	1	EXISTING	RELOCATED	ROMA	N/A	-
	R-EQ10 (PH1)	MOBILE CART	1	EXISTING	RELOCATED	ROMA	N/A	-
	R-EQ16 (PH1)	COMPUTER	2	EXISTING	RELOCATED	ROMA	N/A	-
	RR-EQ01	NARCOTICS SAFE	1	EXISTING	RELOCATED	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ02	PATIENT MONITOR	1	NEW	PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ03	STRETCHER	1	NEW	PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ04	HEADWALL SYSTEM	4	NEW	PURCHASE	CONTRACTOR	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ05	HAND SANITIZER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ06	SOAP DISPENSER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ07	PAPER TOWEL DISPENSER	1	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	RR-EQ08	ACRYLIC GLOVE DISPENSER	3	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	R-F01 (PH1)	DESK	1	EXISTING	RELOCATED	ROMA	N/A	-
	R-F02 (PH1)	TASK CHAIR	1	EXISTING	RELOCATED	ROMA	N/A	-
	R-F03 (PH1)	SIDE CHAIR	4	EXISTING	RELOCATED	ROMA	N/A	-
	CLERICAL AREA	RC-EQ01	PRINTER	1	EXISTING	RELOCATED	ROMA	N/A
CA-EQ01		COMPUTERS	4	EXISTING	RELOCATED	ROMA	N/A	-
CA-EQ02		FILE CABINET	3	NEW/EXISTING	RELOCATED/PURCHASE	ROMA	N/A	-
CA-F01		TASK CHAIR	2	EXISTING	RELOCATED	ROMA	N/A	-
CLERICAL AREA - OFFICE	CO-EQ01	COMPUTER	1	EXISTING	RELOCATED	ROMA	N/A	-
	CO-EQ02	BULLETIN BOARD	1	EXISTING	RELOCATED	ROMA	CONTRACTOR	CONTRACTOR TO PROVIDE WOOD BACKING IF REQ'D
	CO-EQ03	FILE CABINET	2	EXISTING	RELOCATED	ROMA	N/A	-
	CO-F01	TASK CHAIR	1	EXISTING	RELOCATED	ROMA	N/A	-
	CO-F02	DESK	1	EXISTING	RELOCATED	ROMA	N/A	-
NOTES : 1. EQUIPMENT & FURNITURE TO BE SUPPLIED, DELIVERED & ASSEMBLED BY OWNER U.N.O. CONTRACTOR TO COORDINATE WORK AND PROVIDE INSTALLATION AS INDICATED IN THE LIST ABOVE.								

EXISTING FURNITURE & EQUIPMENT SCHEDULE (REFER TO DEMO PLAN)							
ROOM	CODE	UNIT	#	ACTION	PERSON RESPONSIBLE TO MAKE ARRANGEMENT	PERSON RESPONSIBLE FOR REMOVAL (IF REQ'D)	NOTES
EX INTER FLUOROSCOPY 1104	IR-EQ01	CONTRAST WARMER	1	RELOCATE	ROMA	N/A	-
	IR-EQ02	MEDICAL STORAGE CABINET	2	STORAGE	ROMA	N/A	-
	IR-EQ03	HAND SANITIZER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	IR-EQ04	SOAP DISPENSER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	IR-EQ05	PAPER TOWEL DISPENSER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	IR-EQ06	ACRYLIC GLOVE DISPENSER	3	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
EX CONTROL ROOM 1105	CR1-EQ01	HAND SANITIZER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	CR1-EQ02	CURTAIN & ROD	1	REMOVE	CONTRACTOR	CONTRACTOR	-
	CR1-EQ03	WINDOW BLINDS	1	REMOVE	CONTRACTOR	CONTRACTOR	-
	CR1-EQ04	BULLETIN BOARD	1	RELOCATE	ROMA	CONTRACTOR	-
	CR1-EQ05	U/C MOBILE FILE CABINET	1	RELOCATE	ROMA	N/A	-
	CR1-EQ06	COMPUTERS	3	RELOCATE	ROMA	N/A	-
	CR1-F01	TASK CHAIR	2	RELOCATE	ROMA	N/A	-
	LK-EQ01	BLANKET WARMER	1	RELOCATE	ROMA	N/A	-
	LK-EQ02	LOCKERS	4	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
EX LOCKERS 1106							
EX CORRIDOR 1110	CO-EQ01	BULLETIN BOARD	2	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	CO-EQ02	LOCKERS	4	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
EX CLINICAL RESOURCE NURSE OFFICE 1098	RN-EQ01	BULLETIN BOARD	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	RN-EQ02	COMPUTERS	4	RELOCATE	ROMA	N/A	-
	RN-F01	TASK CHAIR	2	RELOCATE	ROMA	N/A	-
	RN-F02	FILE CABINET	1	RELOCATE	ROMA	N/A	-
	RN-F03	U/C MOBILE FILE CABINET	2	RELOCATE	ROMA	N/A	-
EX SUPPLY ROOM 1115	SR-EQ01	WIRE METAL SHELVING	7	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	SR-EQ02	CATHETER FOLLY	6	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	SR-EQ03	MOBILE CRASH CART	1	RELOCATE	ROMA	N/A	-
EX GENERAL FLUOROSCOPY 1104	GF-EQ01	HAND SANITIZER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	GF-EQ02	HOOKS	2	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	GF-EQ03	SOAP DISPENSER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	GF-EQ04	PAPER TOWEL DISPENSER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	GF-F01	FILE CABINET	1	RELOCATE	ROMA	N/A	-
	GF-F02	MOBILE S/S CART	1	RELOCATE	ROMA	N/A	-
EX CONTROL ROOM 1113	CR2-EQ01	ACRYLIC GLOVE DISPENSER	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	CR2-EQ02	BULLETIN BOARD	1	RELOCATE	ROMA	CONTRACTOR	-
	CR2-EQ03	COMPUTERS	3	RELOCATE	ROMA	N/A	-
	CR2-EQ04	SCANNER	1	RELOCATE	ROMA	N/A	-
	CR2-F01	TASK CHAIR	2	RELOCATE	ROMA	N/A	-
	CR2-F02	SHELVING UNIT	1	RELOCATE	ROMA	N/A	-
EX WASHROOM 1122	WR-EQ01	GRAB BAR	1	REMAIN	N/A	N/A	-
	WR-EQ02	SOAP DISPENSER	1	REMAIN	N/A	N/A	-
	WR-EQ03	PAPER TOWEL DISPENSER	1	REMAIN	N/A	N/A	-
EX RECEPTION 1703	RC-EQ01	PRINTER	1	RELOCATE	ROMA	N/A	-
	RC-EQ02	COMPUTER	1	RELOCATE	ROMA	N/A	-
	RC-F01	TASK CHAIR	1	RELOCATE	ROMA	N/A	-
EX OFFICE 1704	O1-EQ01	BULLETIN BOARD	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	O1-EQ02	TELEVISION	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	O1-F01	DESK	1	RELOCATE	ROMA	N/A	-
	O1-F02	TASK CHAIR	1	RELOCATE	ROMA	N/A	-
	O1-F03	FILE CABINET	1	RELOCATE	ROMA	N/A	-
EX OFFICE 1702	O1-F04	SIDE TABLE	1	RELOCATE	ROMA	N/A	-
	O2-EQ01	BULLETIN BOARD	1	RELOCATE	ROMA	CONTRACTOR	WD BACKING TO BE REMOVED
	O2-EQ02	MINI FRIDGE	1	RELOCATE	ROMA	N/A	-
	O2-EQ03	COMPUTER	3	RELOCATE	ROMA	N/A	-
	O2-F01	DESK	1	RELOCATE	ROMA	N/A	-
	O2-F02	TASK CHAIR	1	RELOCATE	ROMA	N/A	-
	O2-F03	FILE CABINET	1	RELOCATE	ROMA	N/A	-
NOTES : 1. LISTED FURNITURE AND EQUIPMENT MAY NOT BE COMPLETE. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE ARRANGEMENT AND REMOVAL (IF REQ'D) OF ALL FURNITURE AND EQUIPMENT NOT LISTED ABOVE.							

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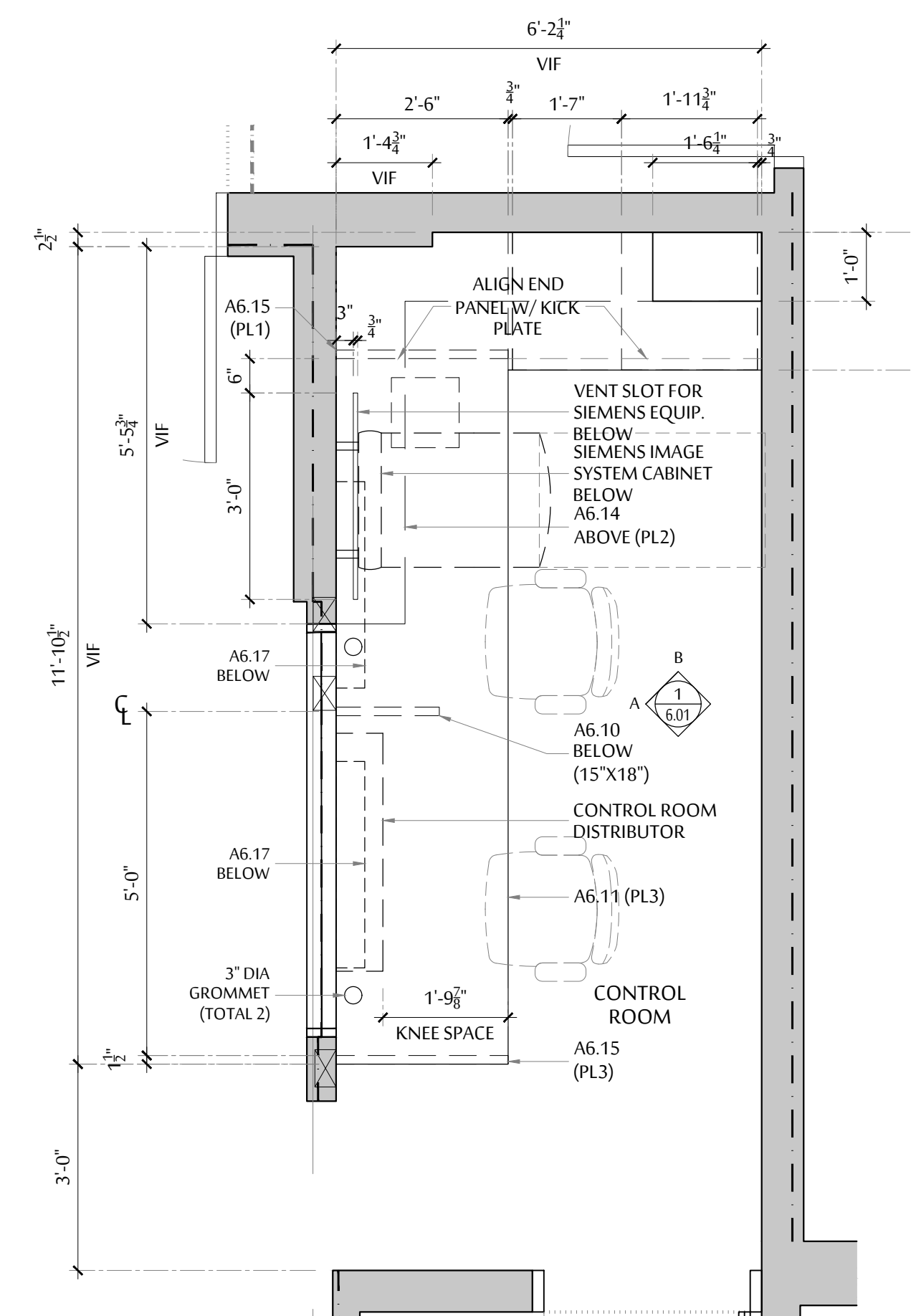
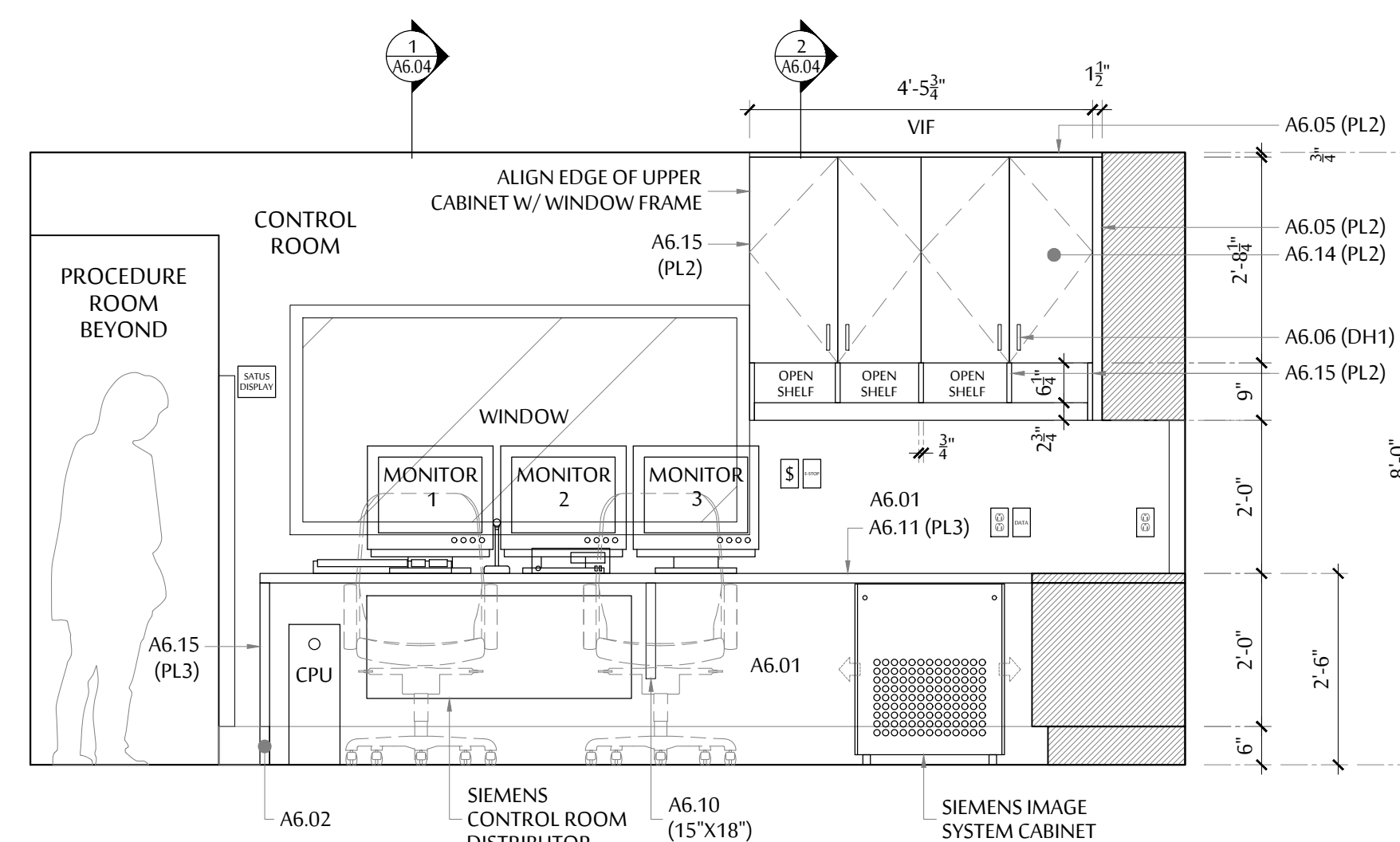
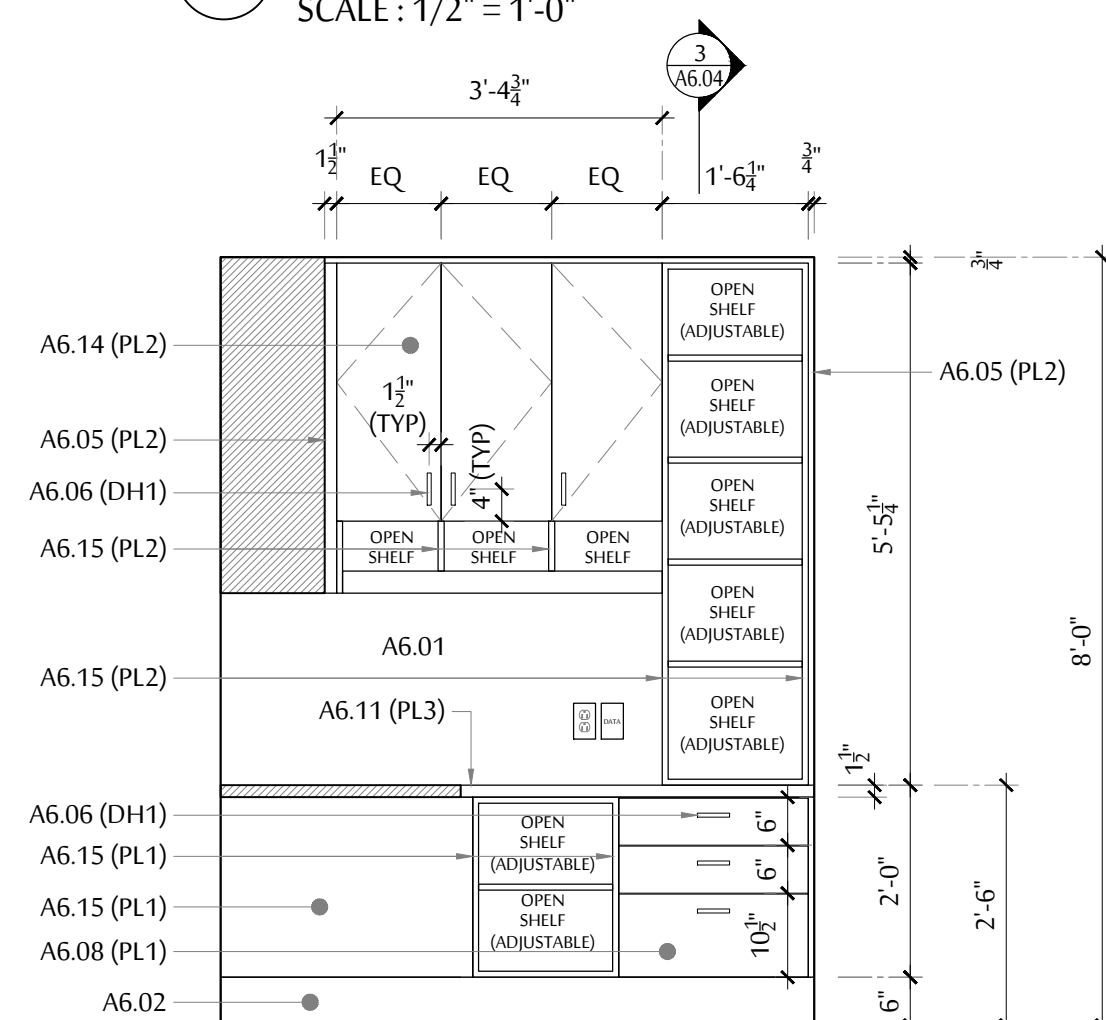
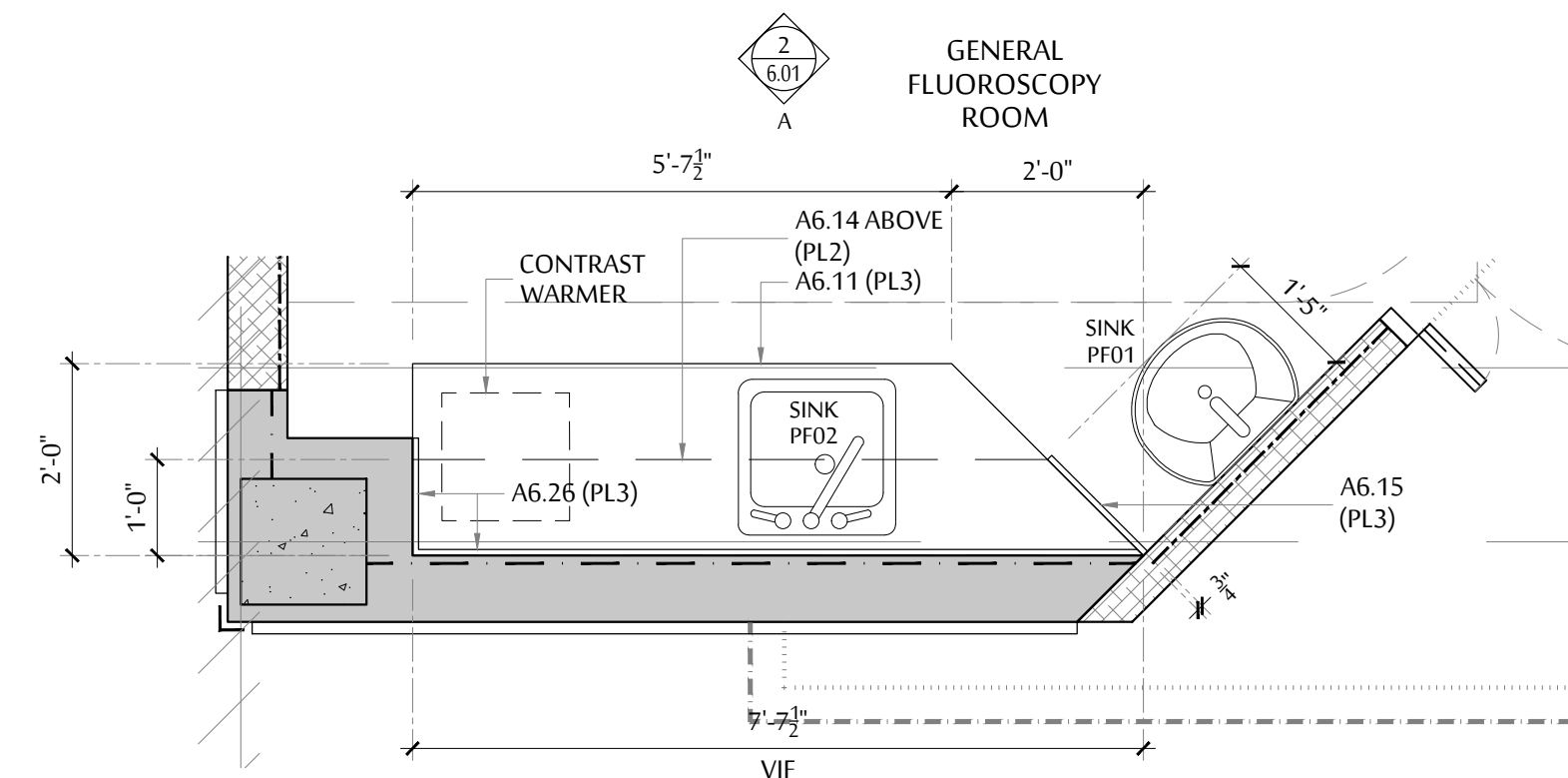
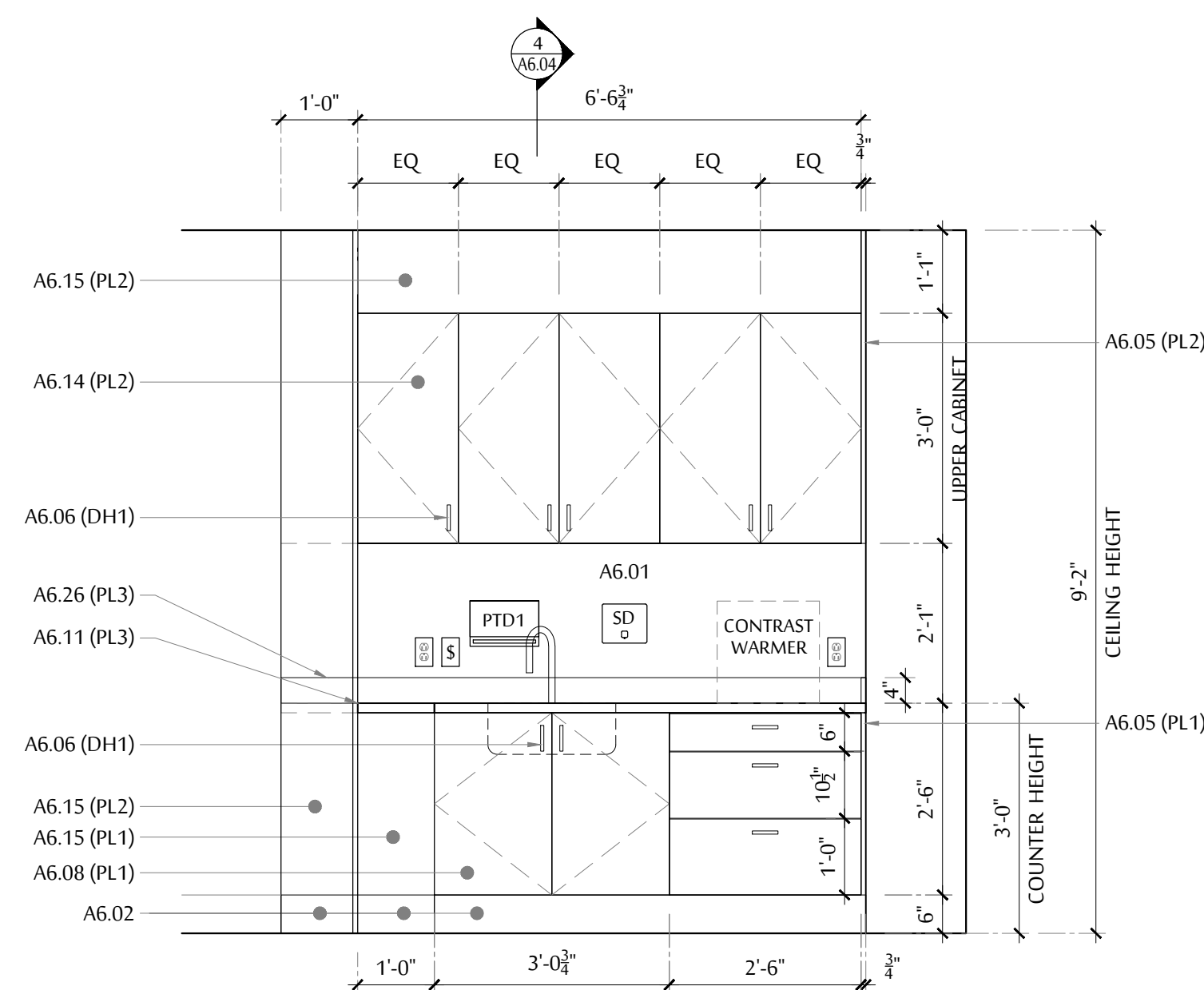
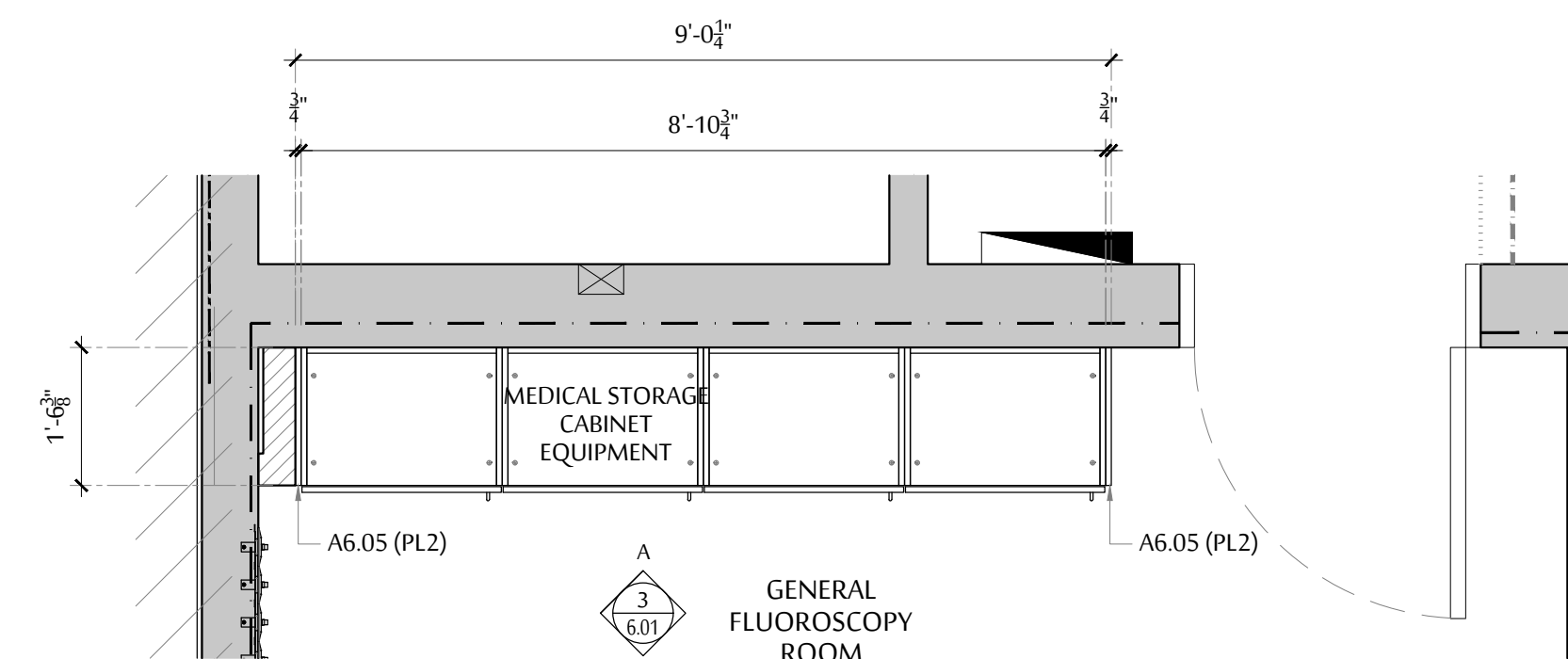
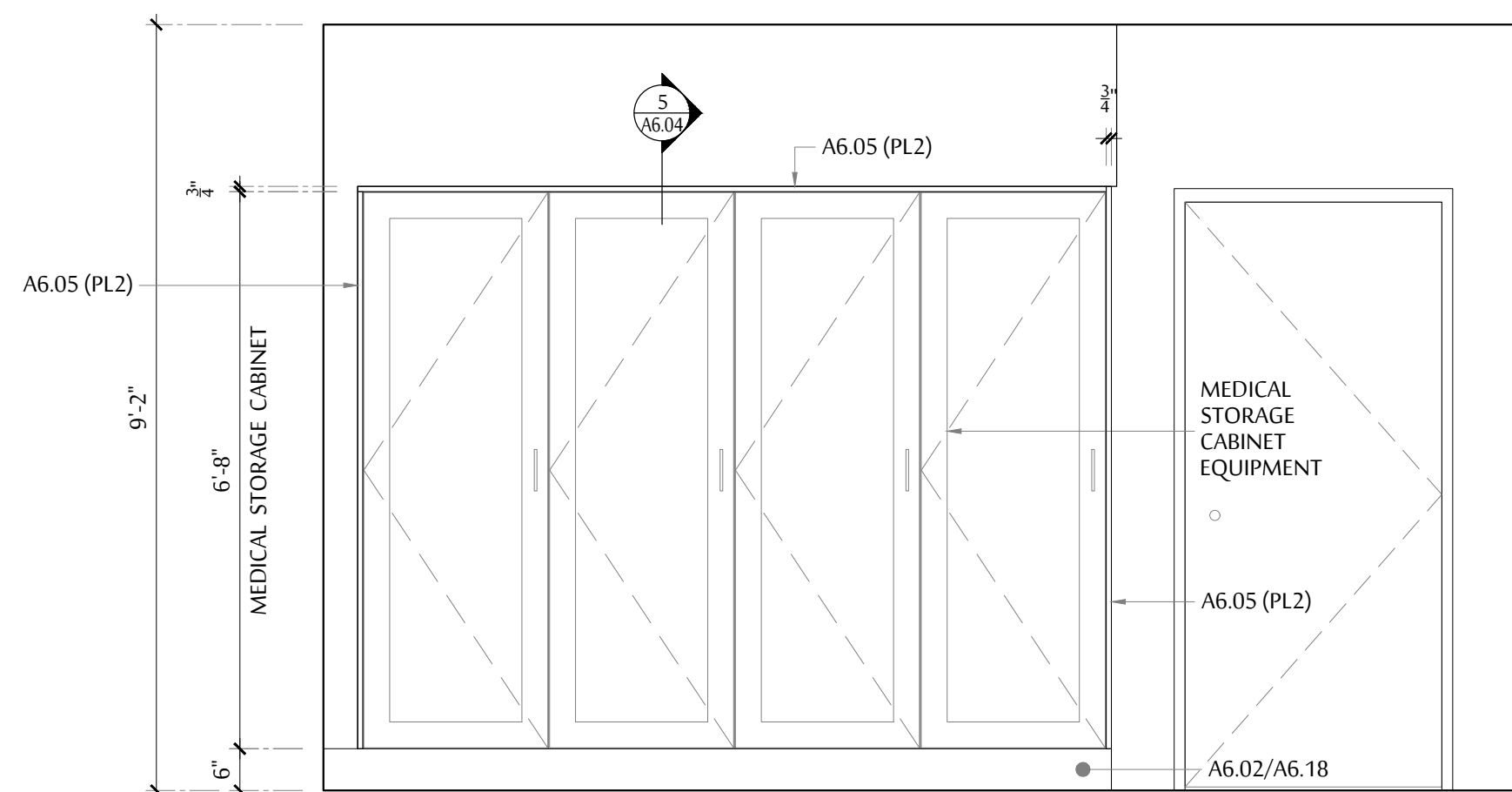
UHNBC
FLUOROSCOPY
REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
FURNITURE & EQUIP.
SCHEDULES

SCALE:
AS NOTED
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

PHASE 2
A5.05



INTERIOR KEY NOTES

1. ALL WORKS BELOW ARE NEW INCLUDING SUPPLY & INSTALLATION OF MATERIALS U.N.O.
2. SEE DWG A5.03 FOR FINISHES.
3. ALL WOOD GRAIN FINISHES TO BE ORIENTED VERTICALLY WITH CLEAR LAQUERED FINISH & TO BE BOOK-MATCHED U.N.O.
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5. CASEWORK BACKS NOTED AS "DOWEL CONSTRUCTION" MUST BE SCREWED TO CASE BODY & NAILLED OR STAPLED TO DIVISIONS & FIXED SHELVES.
6. ALL GAPS BETWEEN DOORS OR BETWEEN DOORS AND FIXED PANEL TO BE 1/16" WIDE.

- A6.01 PAINTED DRYWALL
- A6.02 INTEGRAL SHEET VINYL BASE WITH TOP CAP
- A6.03 WALL PROTECTION
- A6.04 COVER PLATE FOR PLUMB VALVE - SEE PLUMB DWGS
- A6.05 FILLER PANEL WITH MATCHING FINISH
- A6.06 CABINET DOOR OR DRAWER HANDLE
- A6.07 1 1/2" THK COUNTERTOP WITH PLASTIC LAMINATE FINISH & PVC ACCENT EDGING
- A6.08 BASE CABINET WITH DOORS, DRAWERS OR SHELVING
- A6.09 1 PIECE CONT 3/4" X 3" SUPPORTING SECTION UNDER COUNTERTOP
- A6.10 BLACK SPEEDRACE METAL BRACKET
- A6.11 1 1/2" THK DESKTOP WITH PLAS LAM FINISH & C/W MATCHING PLAS LAM EDGE BAND
- A6.12 ADJUSTABLE 3/4" THK PLYWOOD SHELF WITH PLAS LAM FINISH AND 3MM THK RIGID PVC ACCENT EDGE
- A6.13 1/16" ROUTED SEAM TO BE PAINTED BLACK
- A6.14 UPPER CABINET WITH DOORS
- A6.15 FINISHED END, SIDE OR TOP PANEL
- A6.16 FULL HEIGHT CABINET WITH ADJUSTABLE SHELVING
- A6.17 36"W WIRE POWDER COATED STEEL BASKET CABLE TRAY MOUNTED TO UNDERSIDE OF DESK
- A6.18 6TH MEDICAL STORAGE CABINET BASE PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS
- A6.19 KEY LOCK
- A6.20 1/2" MONOLITHIC CLEAR, TEMPERED GLASS - SEE WINDOW SCHEDULE AS.02
- A6.21 RESERVED

- A6.22 THRU-GLASS TWO-WAY ELECTRONIC COMMUNICATOR (S11)
- A6.23 3/4" THICK PLYWOOD PANEL
- A6.24 0.75"W X 0.43"H WHITE PVC PLASTIC CABLE RACEWAY "KABLE KONTROL ECONOMICAL CABLE RACEWAY"
- A6.25 TRANSLUCENT FILM (TF1) INSTALLED ON CORRIDOR SIDE
- A6.26 4" H X 3/4" THK PLYWOOD BACK SPLASH

ARCHITECT:



WWW.DCYTARCHITECTURE.CA

12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
10-11	NOT ISSUED	-	-
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2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
NO.	REVISION	DATE	BY

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UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO MILLWORK PLANS & ELEVATIONS

SCALE:
AS NOTED

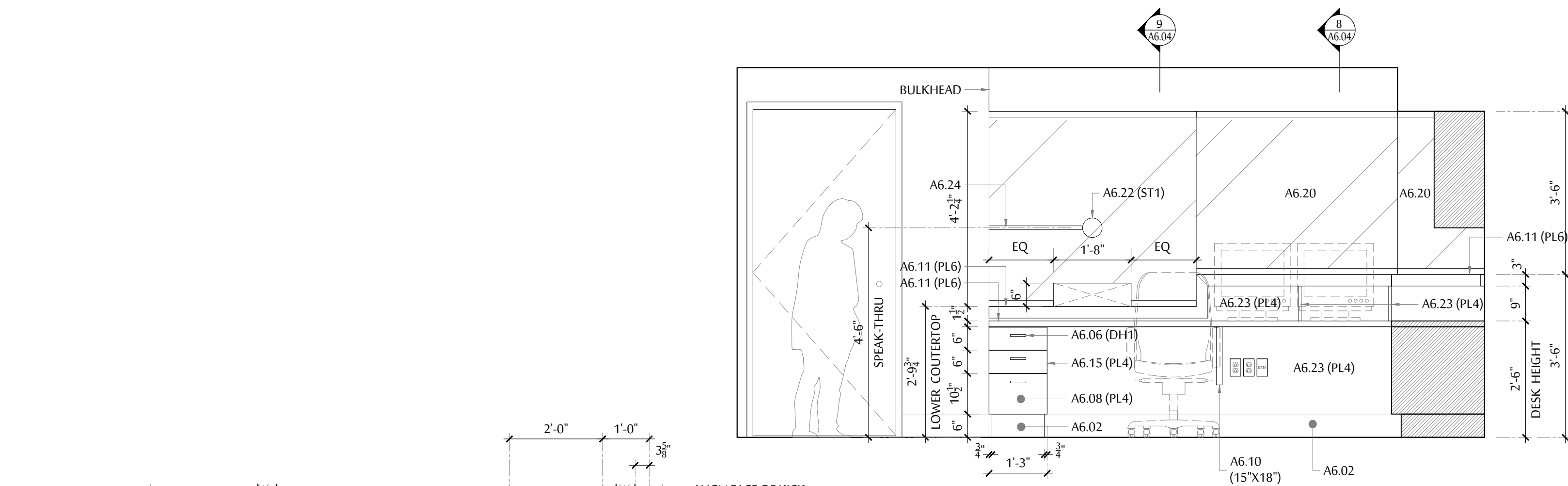
DATE:
OCTOBER 2020

DRAWN:
RC

CHECKED:
DC

JOB No.:
DCYT2009

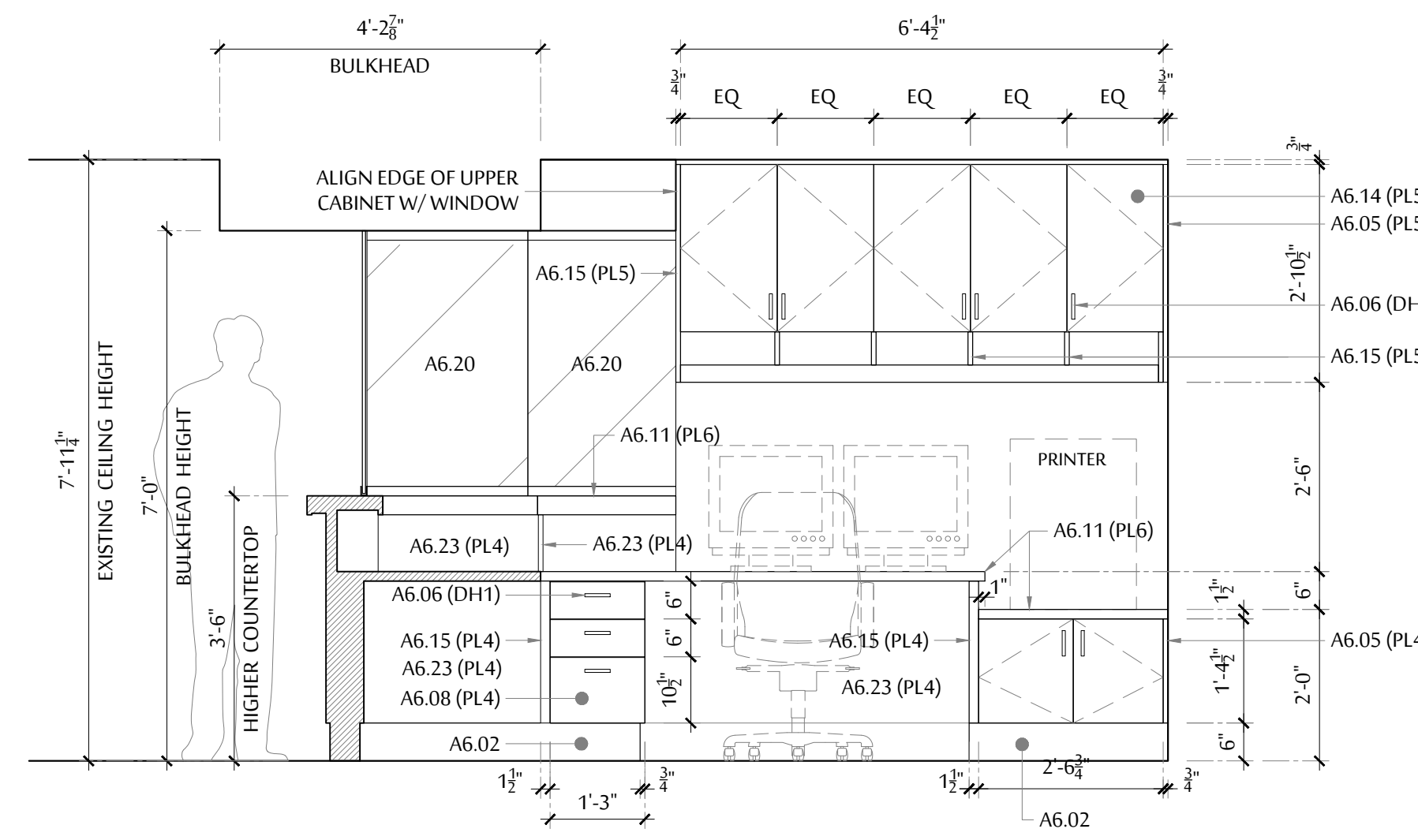
PHASE 2
A6.01



CLERICAL SPACE (PH2A)
MILLWORK MW07
EAST ELEVATION

4B

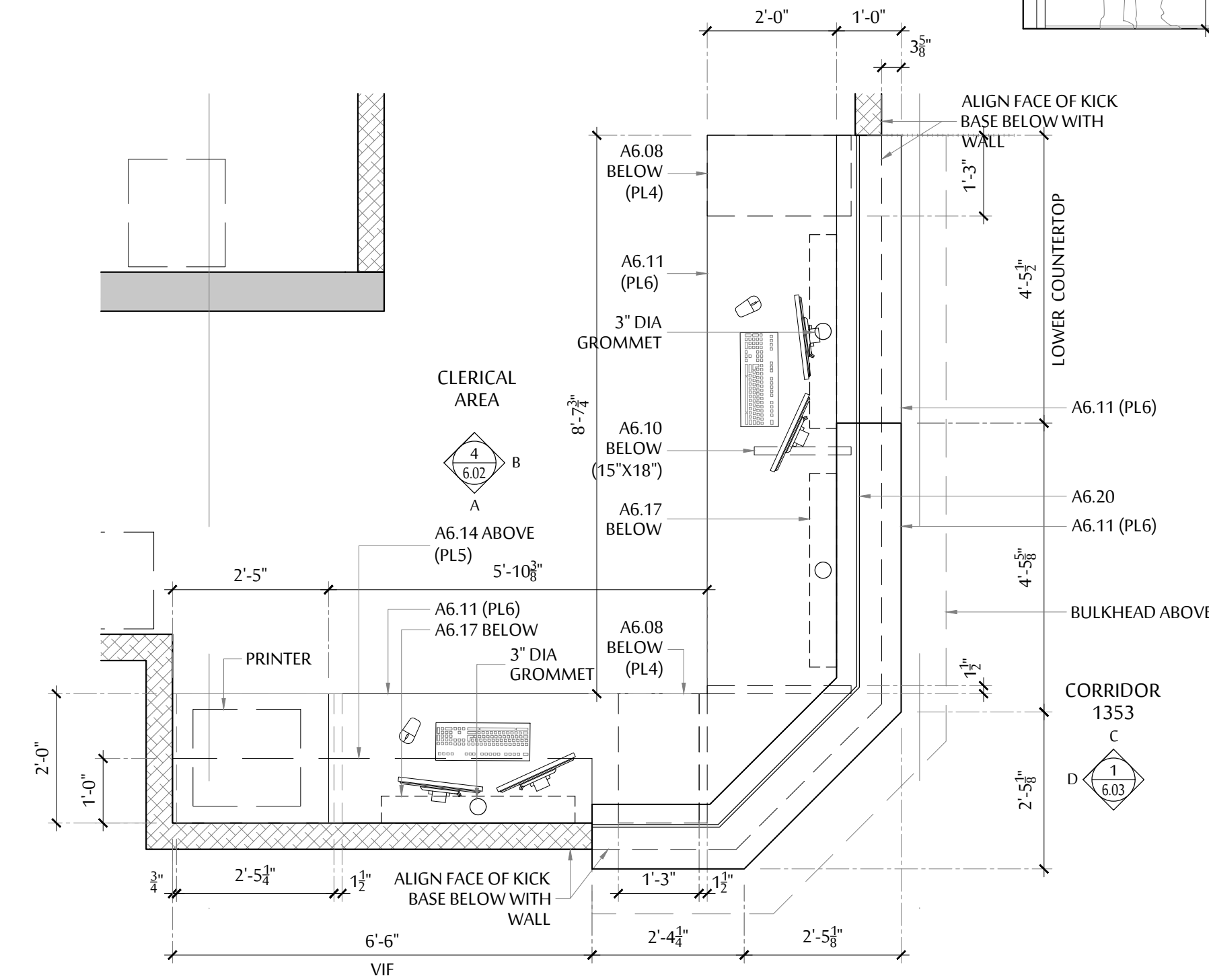
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CLERICAL SPACE (PH2A)
MILLWORK MW07
SOUTH ELEVATION

4A

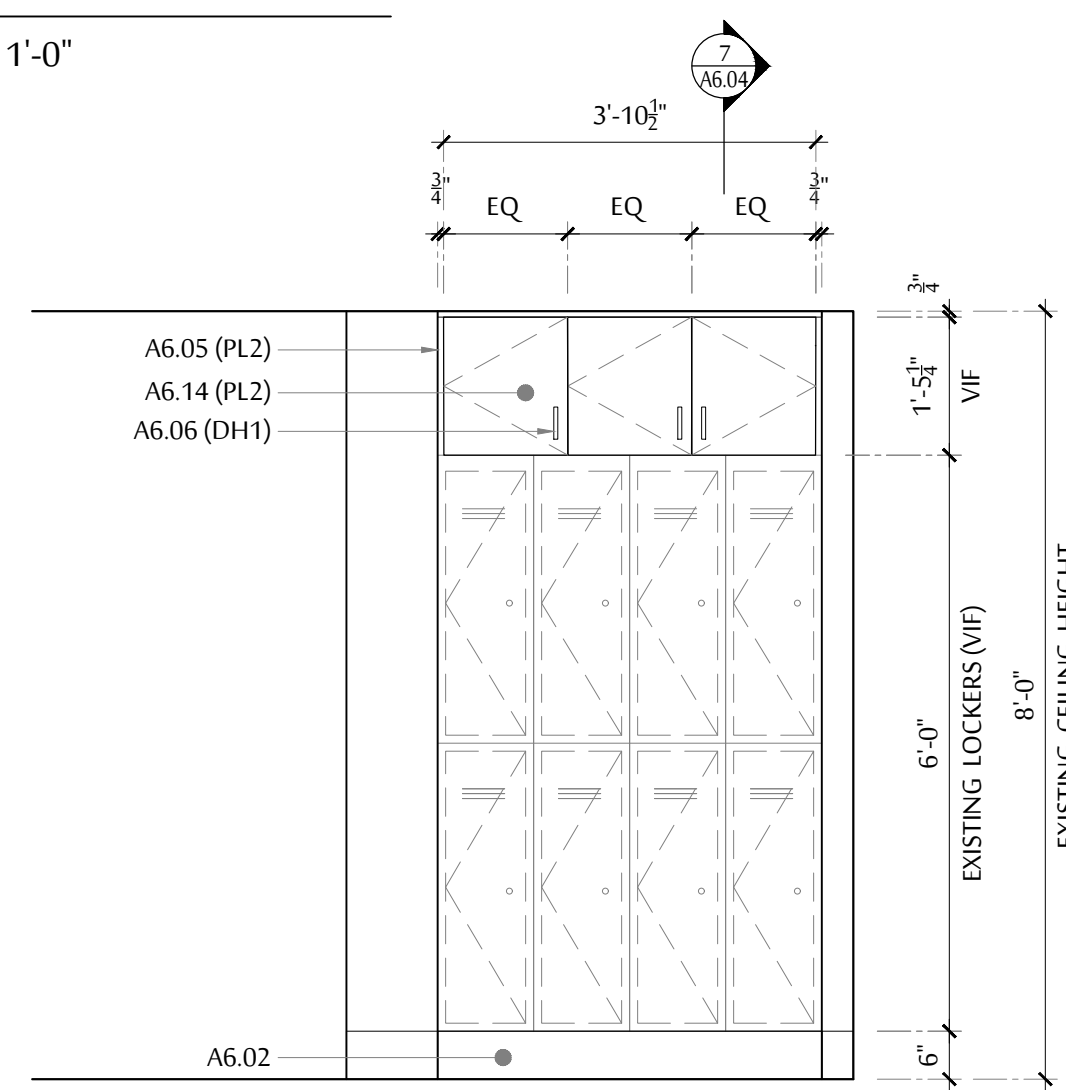
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CLERICAL SPACE (PH2A)
MILLWORK MW07
PLAN

4

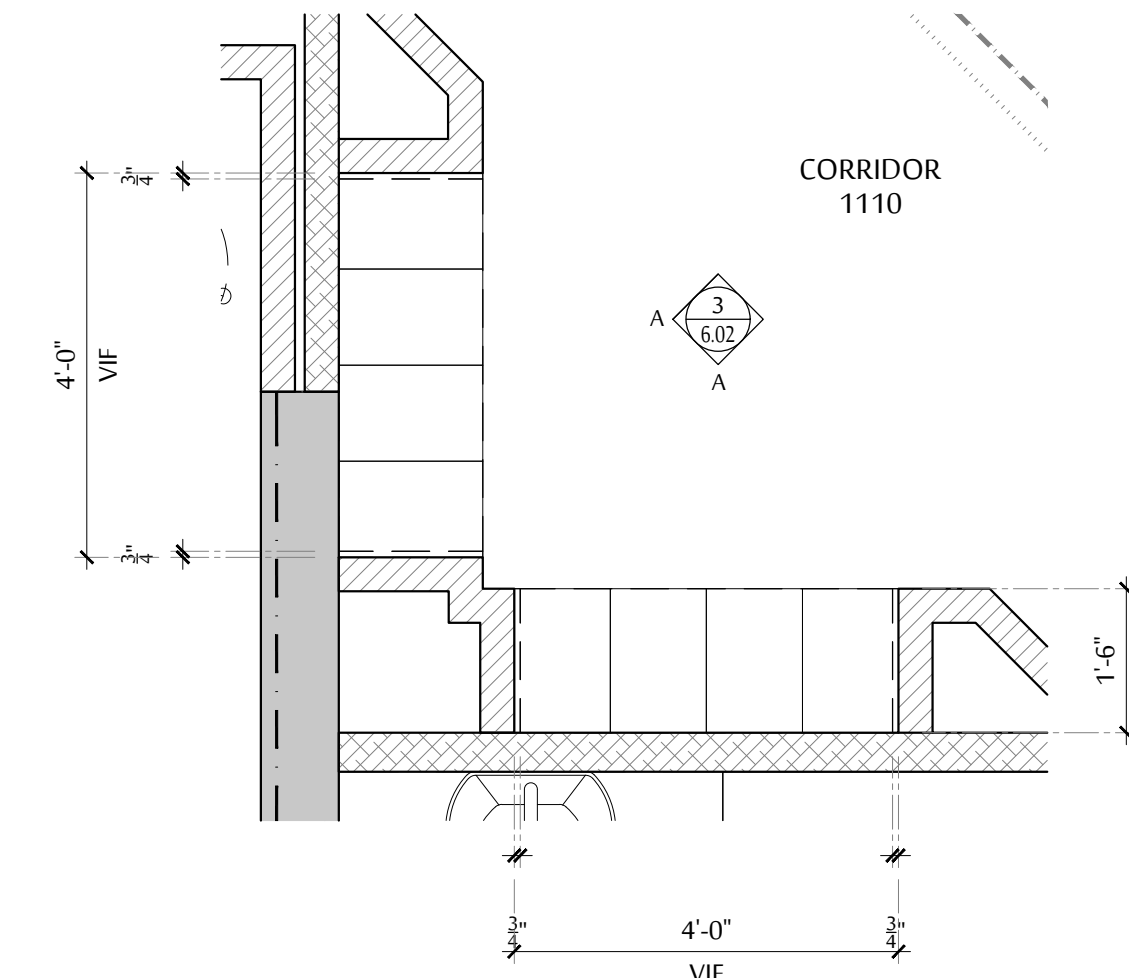
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CORRIDOR (PH2C)
MILLWORK MW06
TYPICAL ELEVATION

3A

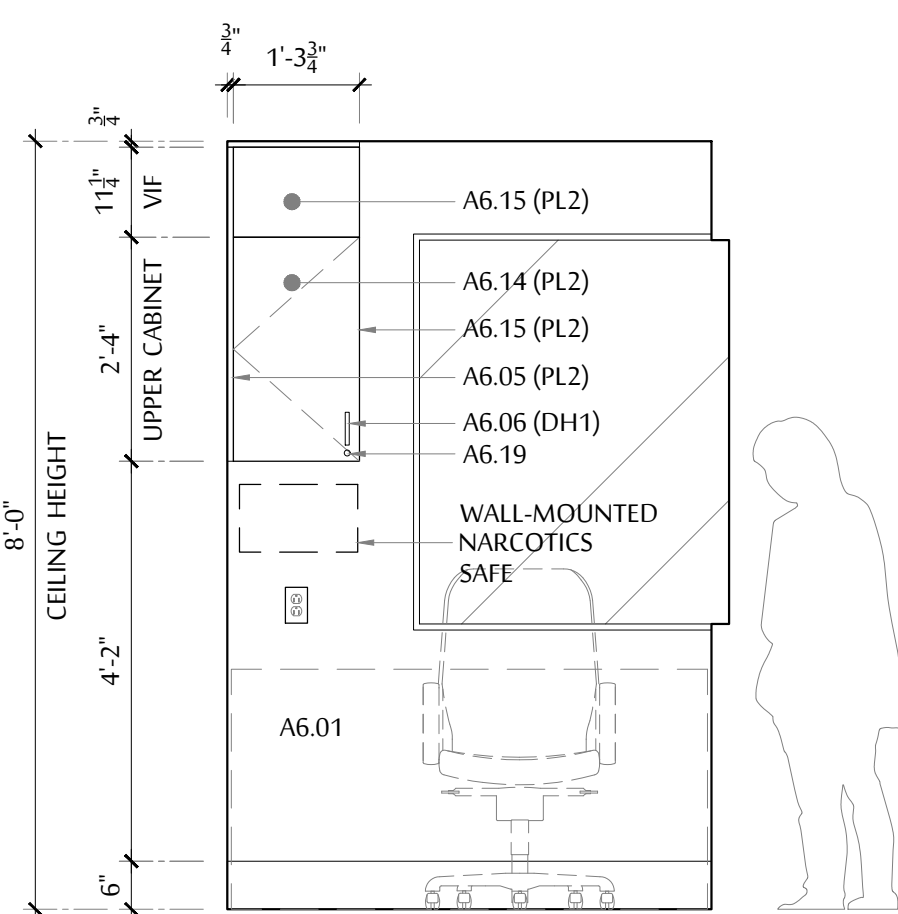
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CORRIDOR (PH2C)
MILLWORK MW06
PLAN

3

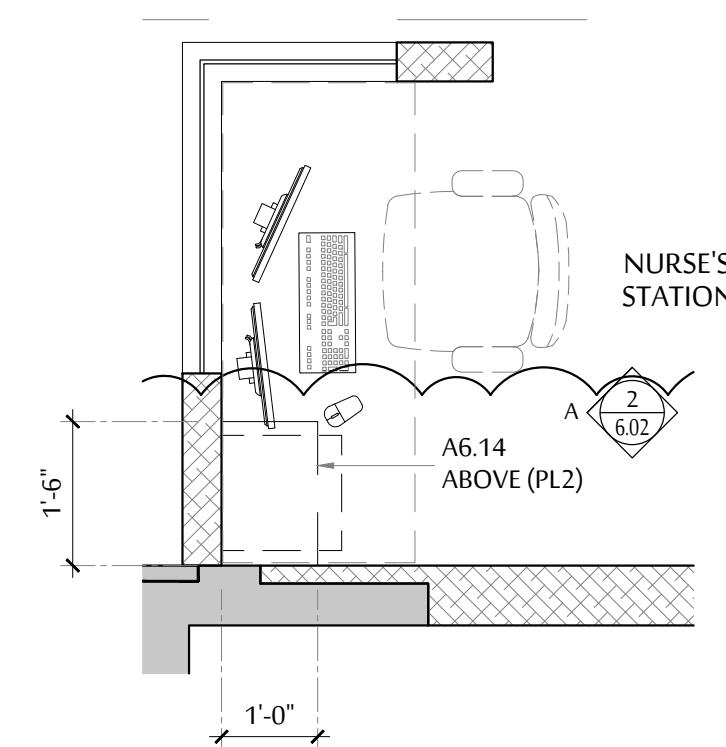
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NURSE'S STATION
MILLWORK MW05
EAST ELEVATION

2A

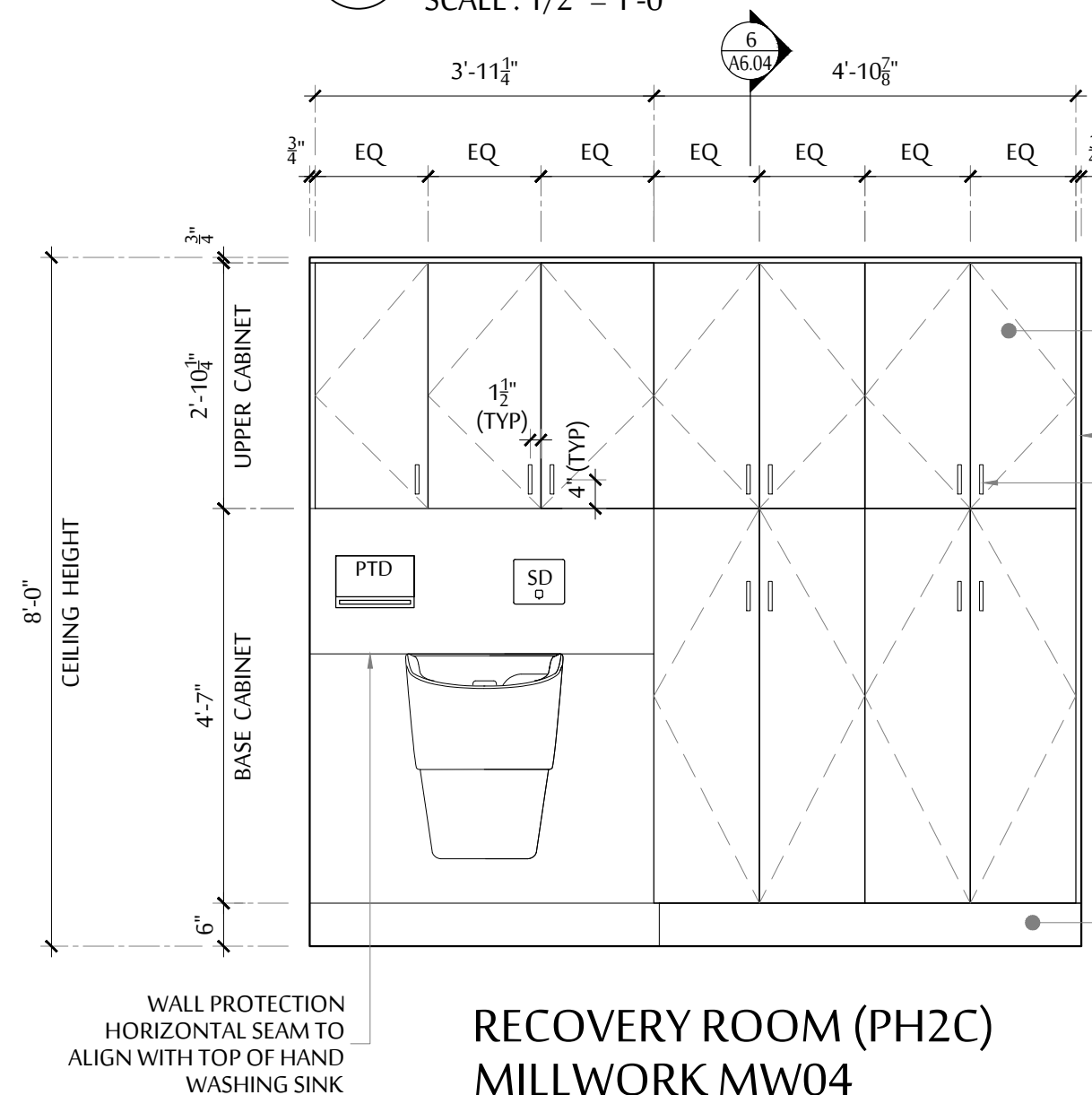
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NURSE'S STATION
MILLWORK MW05
PLAN

2

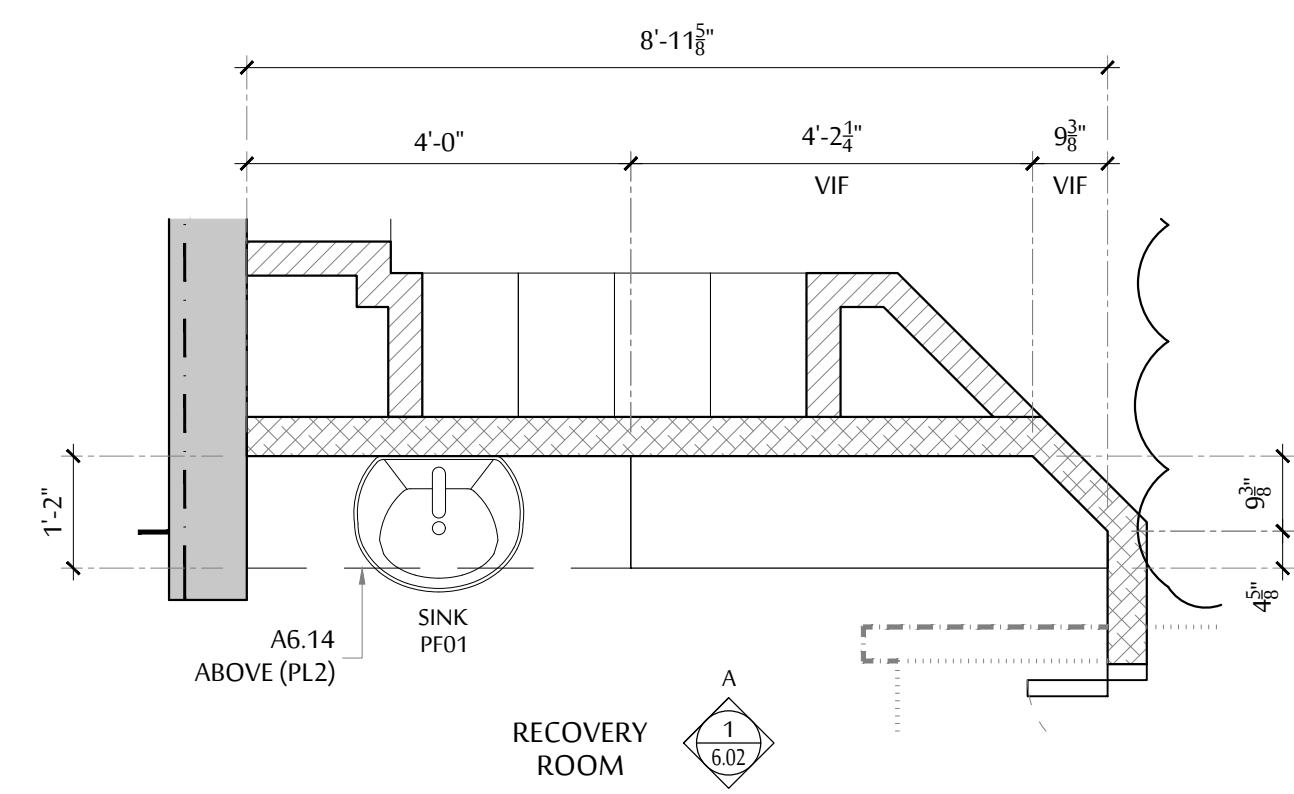
SCALE: 1/2" = 1'-0"



RECOVERY ROOM (PH2C)
MILLWORK MW04
NORTH ELEVATION

1A

SCALE: 1/2" = 1'-0"



RECOVERY ROOM (PH2C)
MILLWORK MW04
PLAN

1

SCALE: 1/2" = 1'-0"

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A6.17 36"W WIRE POWDER COATED STEEL BASKET CABLE TRAY MOUNTED TO UNDERSIDE OF DESK
A6.18 6"H MEDICAL STORAGE CABINET BASE PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS
A6.19 KEY LOCK
A6.20 1/2" MONOLITHIC CLEAR, TEMPERED GLASS - SEE WINDOW SCHEDULE A5.02
A6.21 RESERVED
A6.22 THRU-GLASS TWO-WAY ELECTRONIC COMMUNICATOR (ST1)
A6.23 3/4" THICK PLYWOOD PANEL
A6.24 0.75"W X 0.43"H WHITE PVC PLASTIC CABLE RACEWAY "KABLE KONTROL ECONOMICAL CABLE RACEWAY"
A6.25 TRANSLUCENT FILM (TF1) INSTALLED ON CORRIDOR SIDE
A6.26 4" H X 3/4" THK PLYWOOD BACK SPLASH

ARCHITECT :



WWW.DCYTARCHITECTURE.CA

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NO.	REVISION	DATE	BY

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UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO MILLWORK PLANS & ELEVATIONS

SCALE:

AS NOTED

DATE:

OCTOBER 2020

DRAWN:

RC

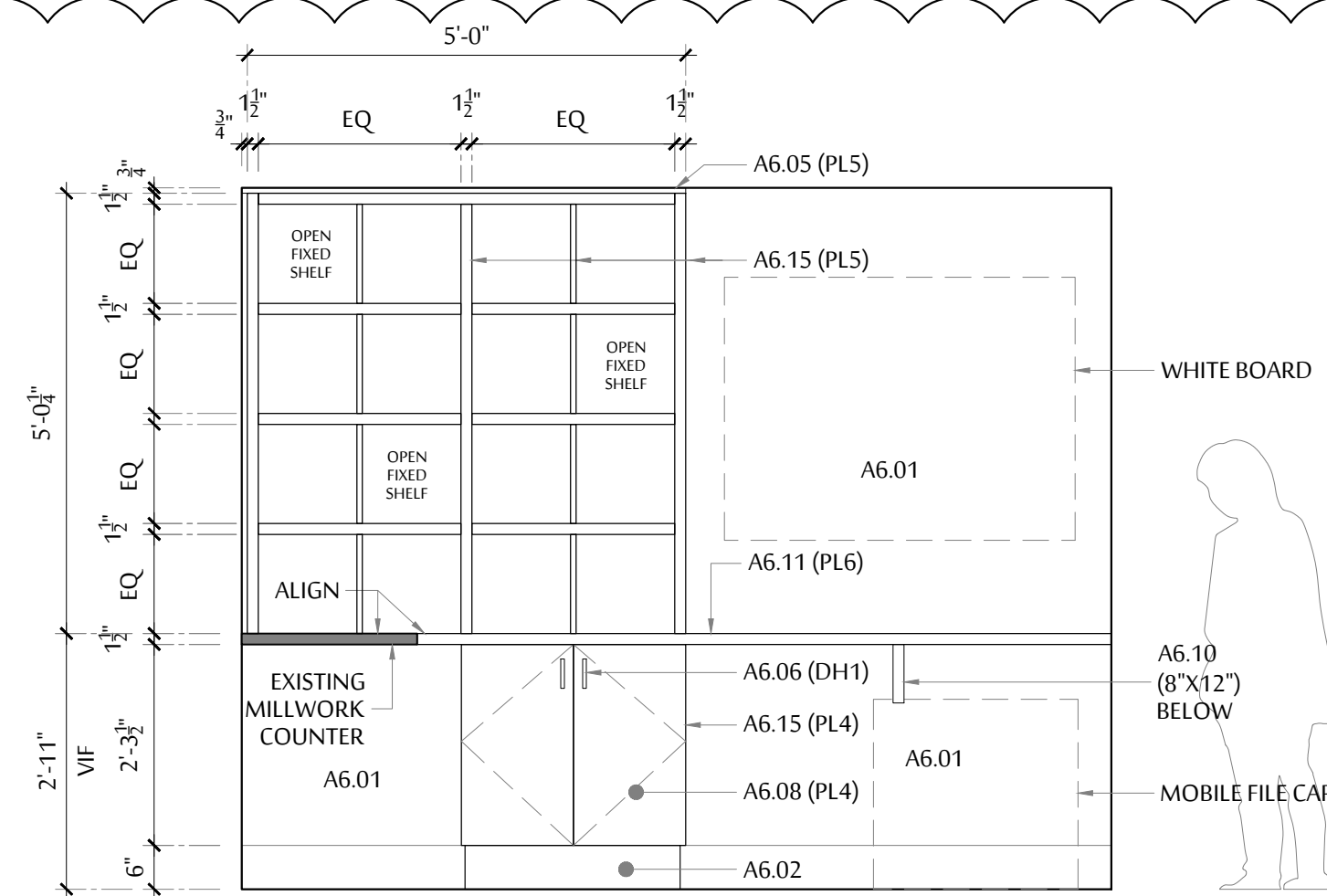
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DC

JOB No.:

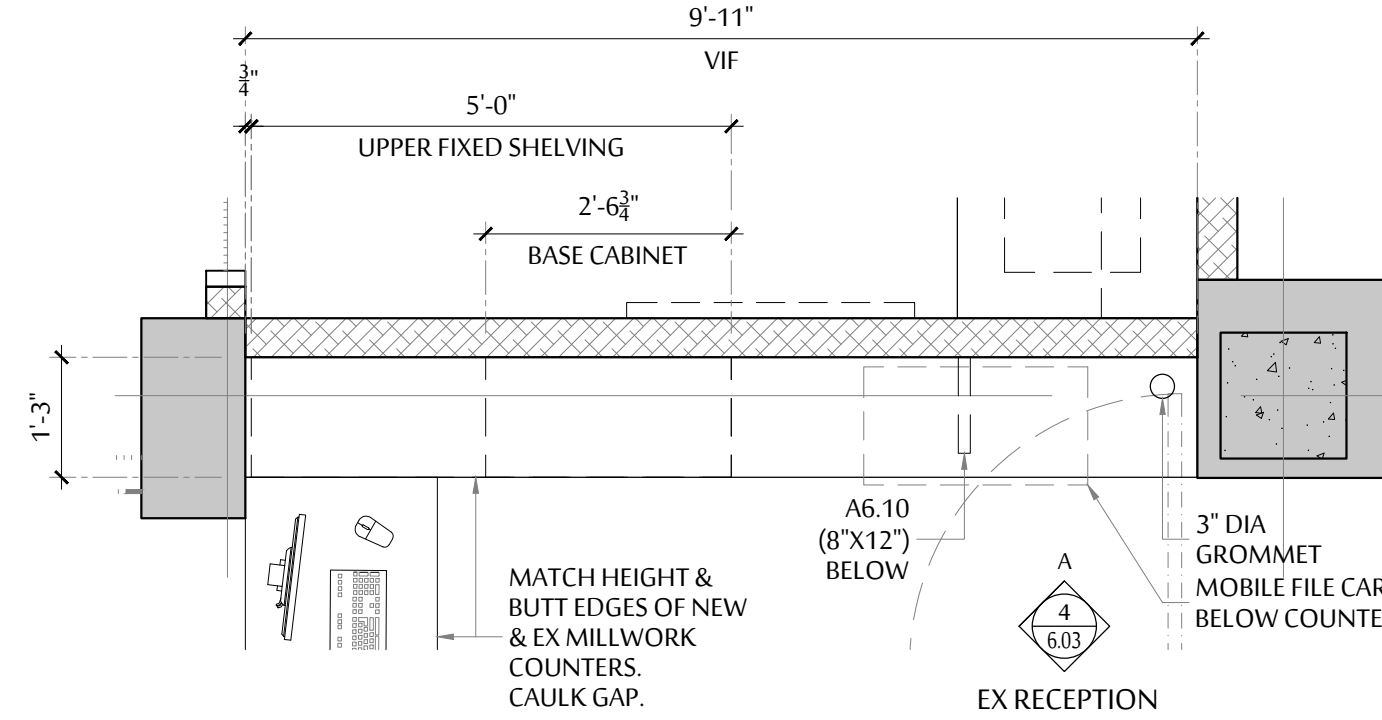
DCYT2009

PHASE 2
A6.02



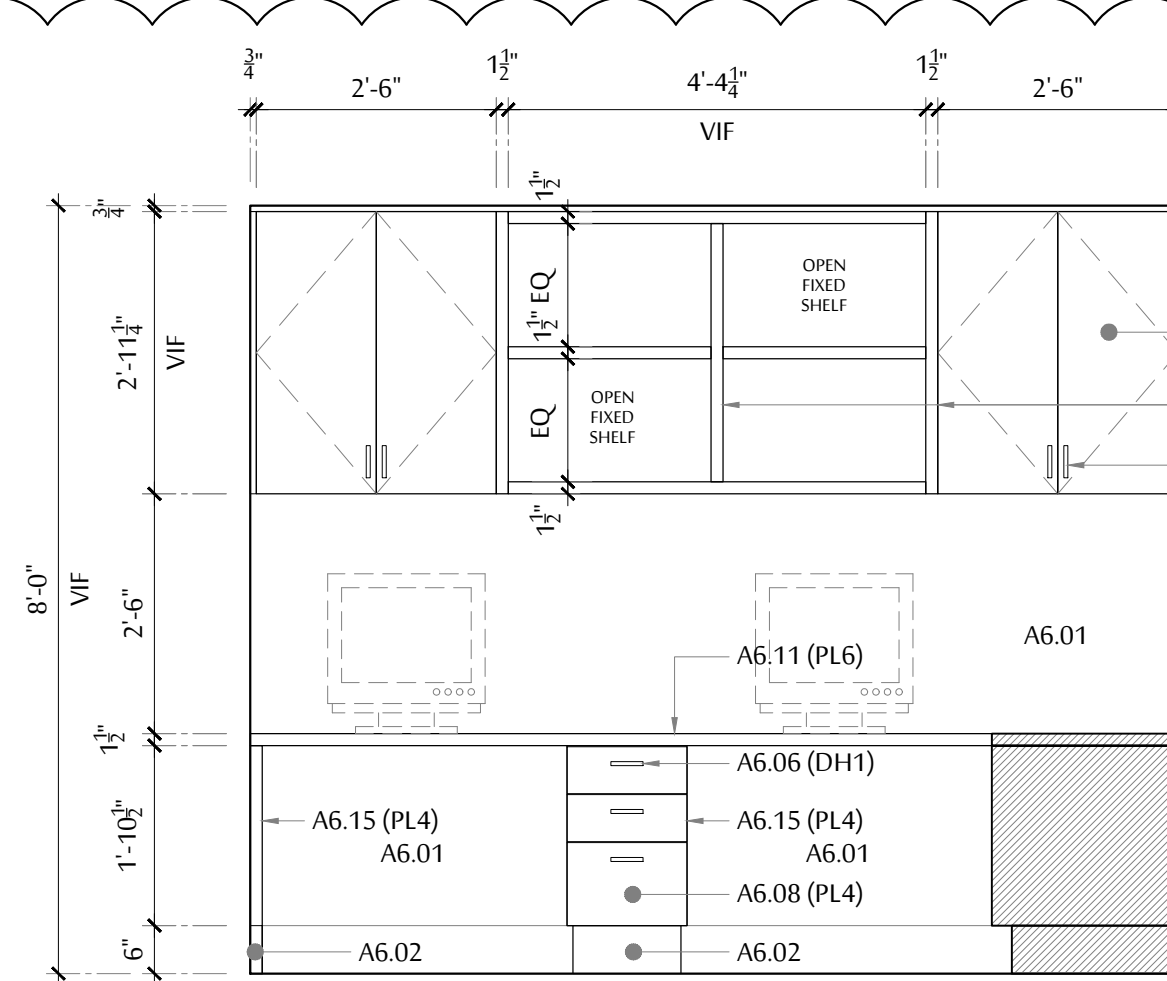
EX RECEPTION 1144 (PH2A)
MILLWORK MW10
NORTH ELEVATION

4A
SCALE: 1/2" = 1'-0"



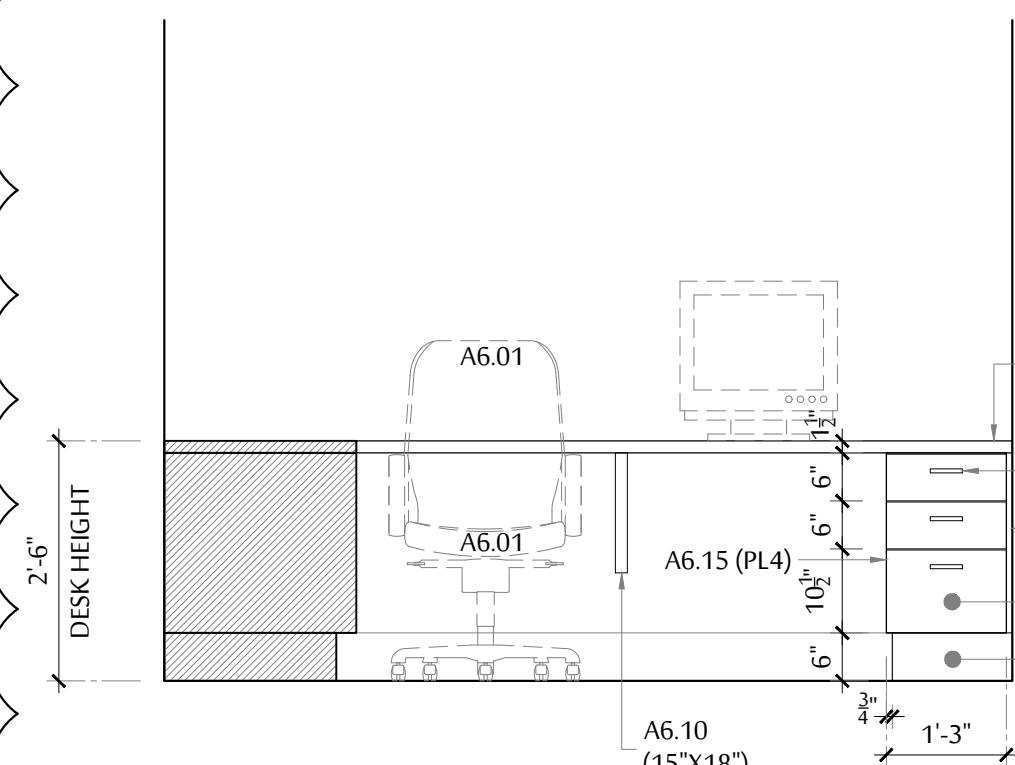
EX RECEPTION 1144 (PH2A)
MILLWORK MW10
PLAN

4
SCALE: 1/2" = 1'-0"



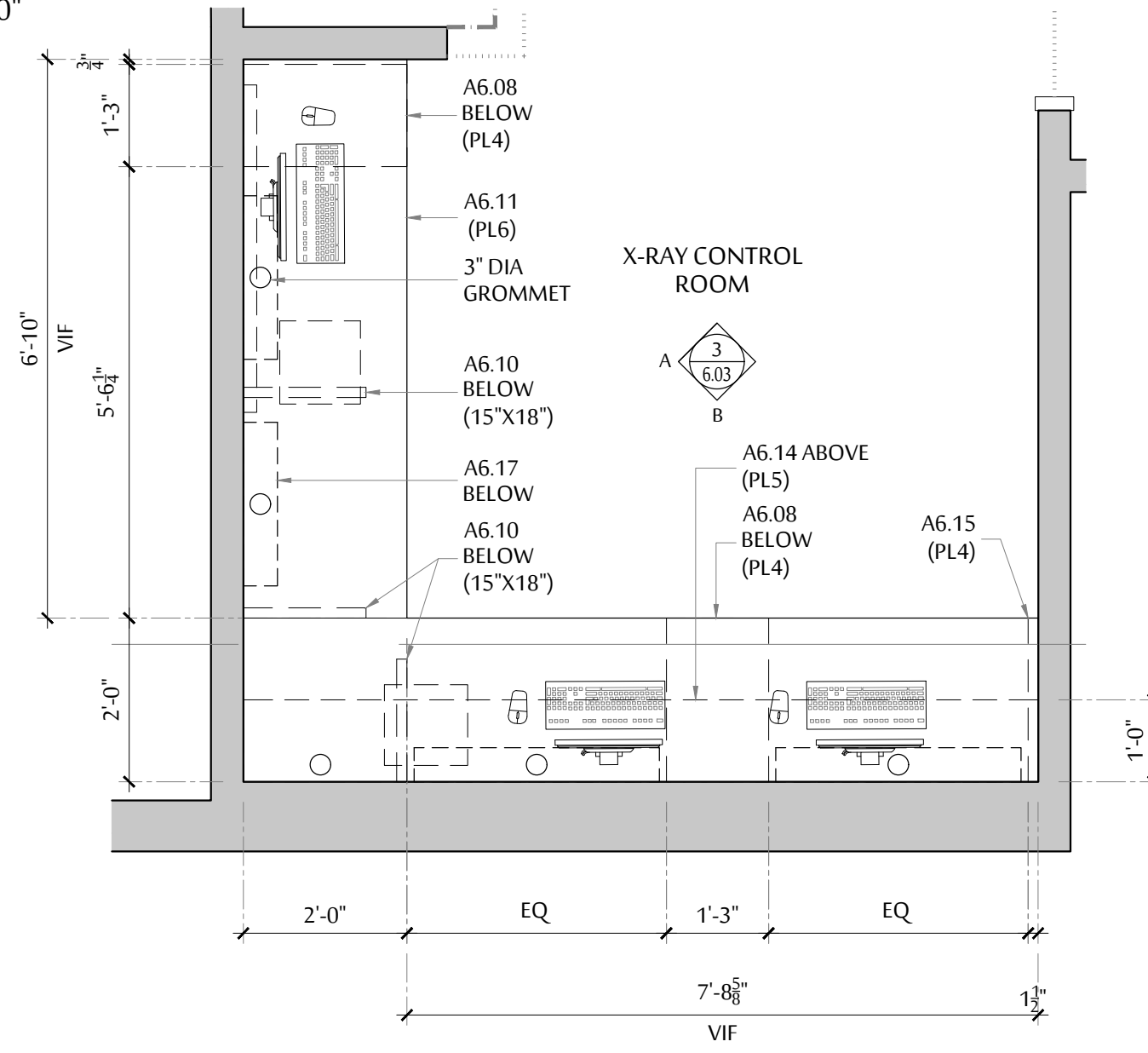
X-RAY CONTROL ROOM (PH2A)
MILLWORK MW09
SOUTH ELEVATION

3B
SCALE: 1/2" = 1'-0"



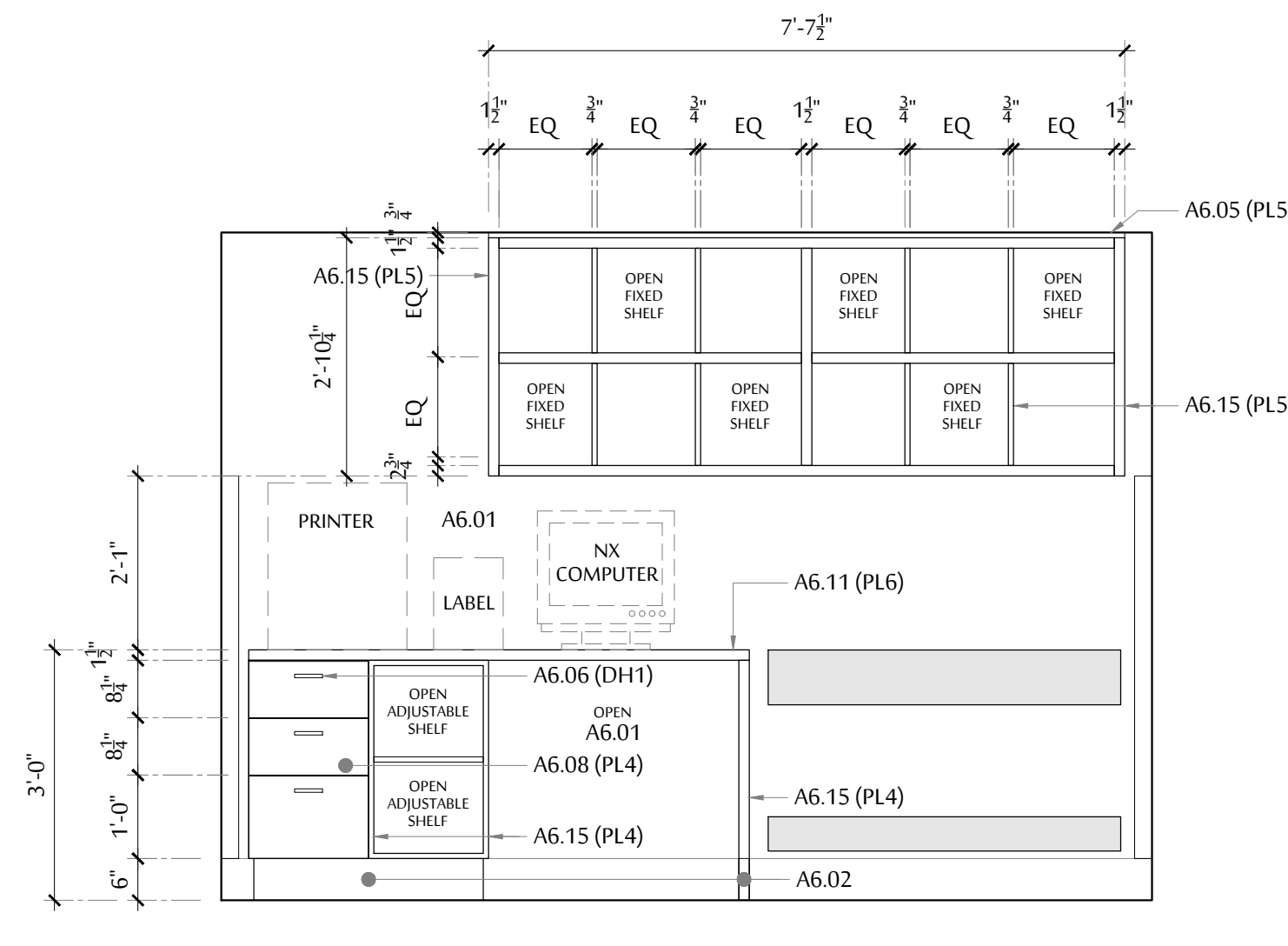
X-RAY CONTROL ROOM (PH2A)
MILLWORK MW09
WEST ELEVATION

3A
SCALE: 1/2" = 1'-0"



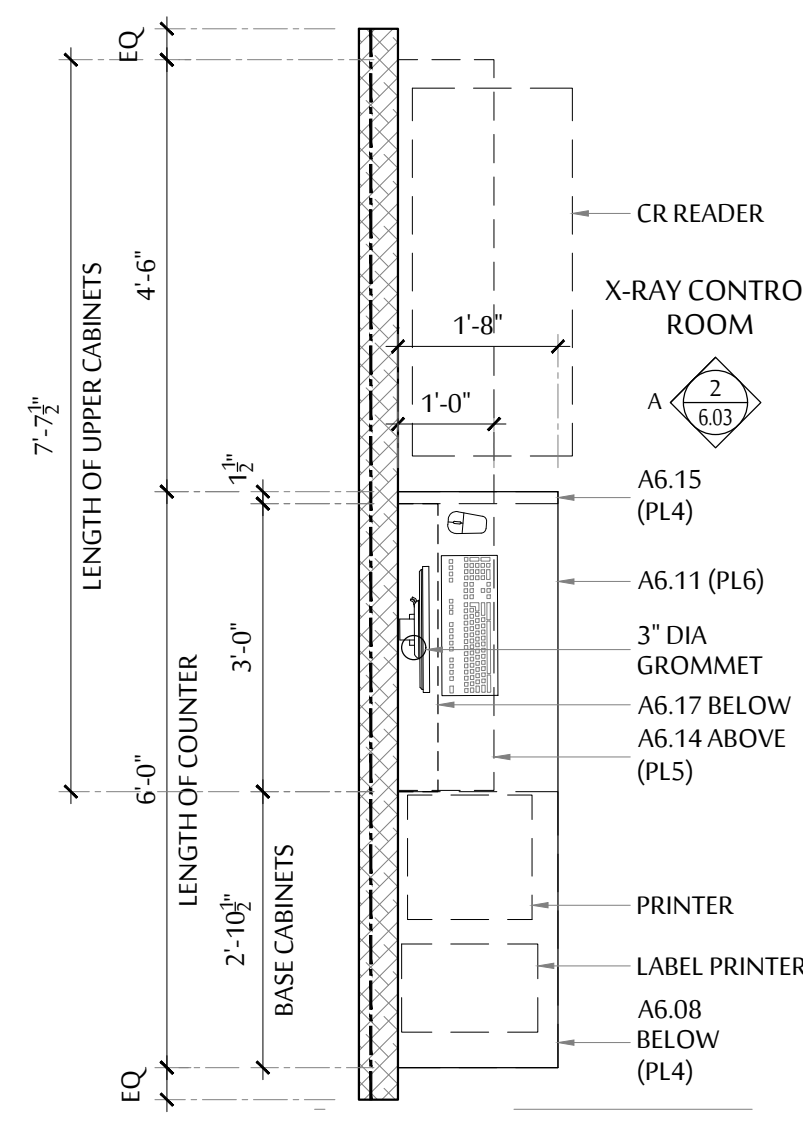
X-RAY CONTROL ROOM (PH2A)
MILLWORK MW09
PLAN

3
SCALE: 1/2" = 1'-0"



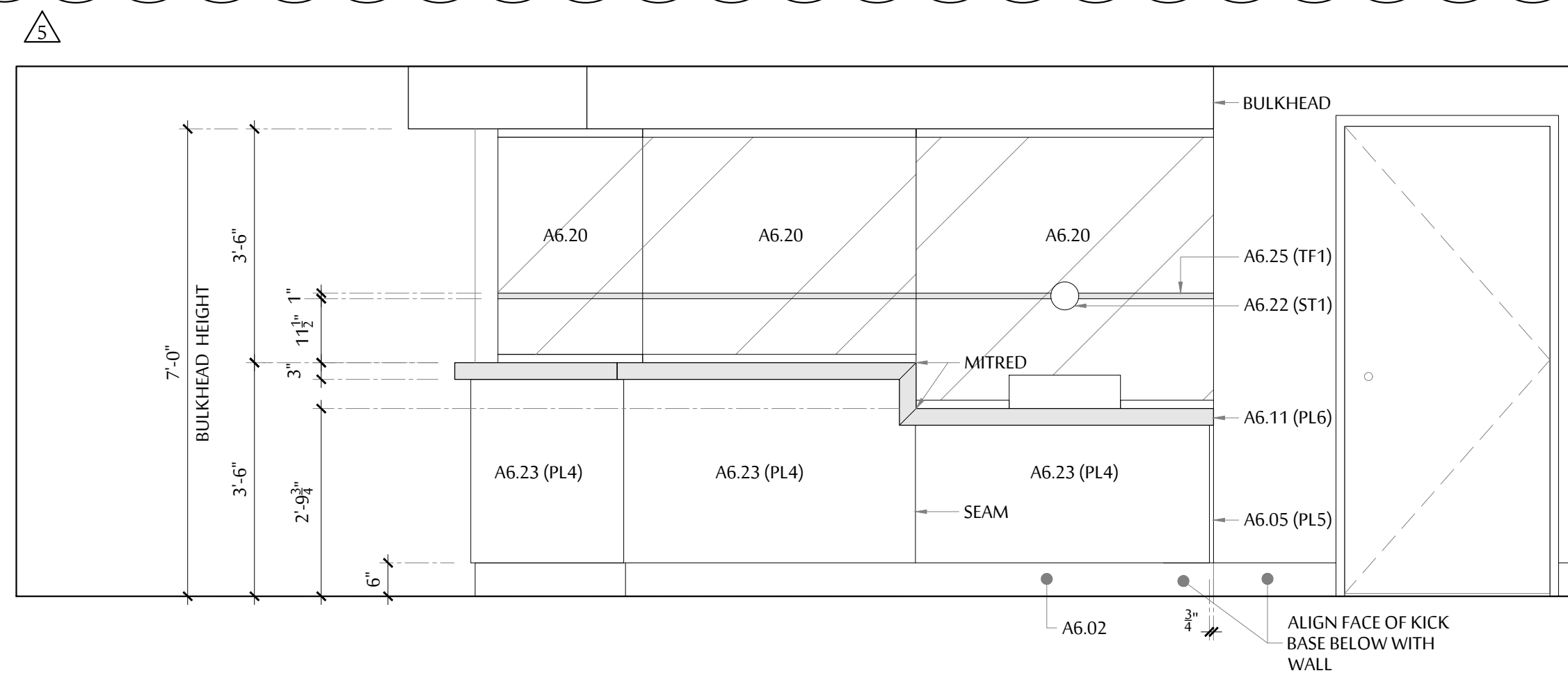
X-RAY CONTROL ROOM (PH2A)
MILLWORK MW08
EAST ELEVATION

2A
SCALE: 1/2" = 1'-0"



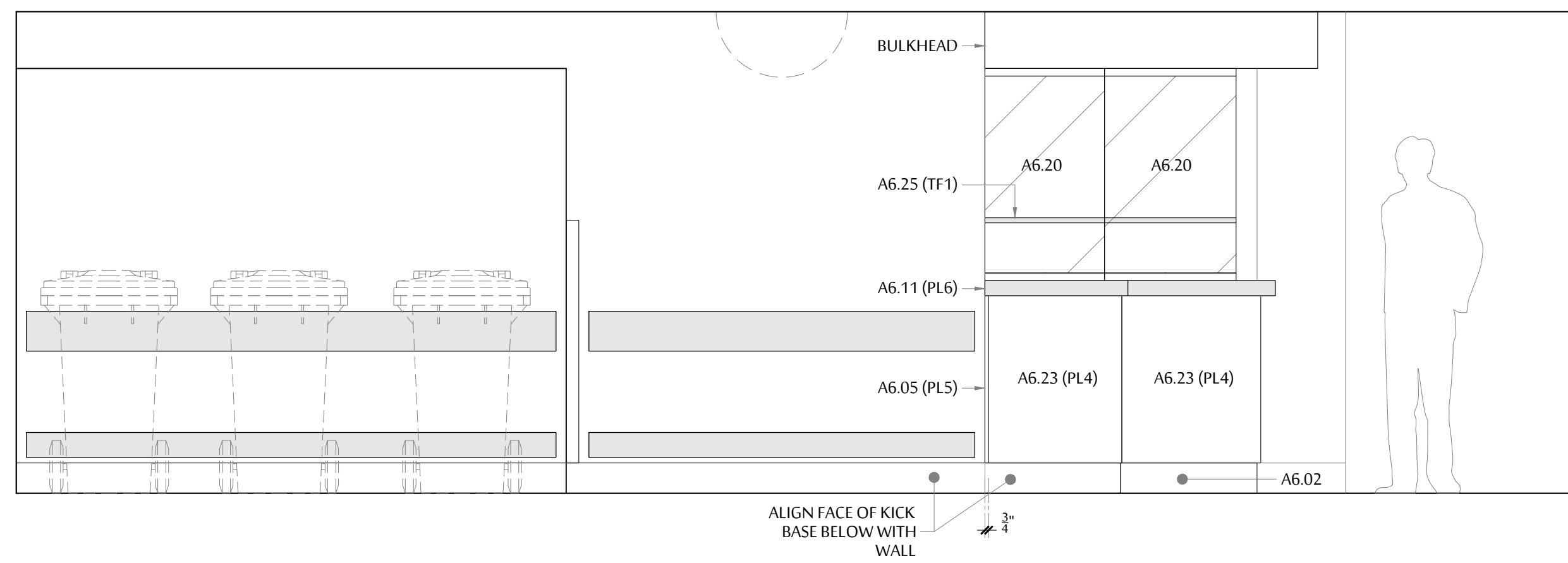
X-RAY CONTROL ROOM (PH2A)
MILLWORK MW08
PLAN

2
SCALE: 1/2" = 1'-0"



CLERICAL SPACE (PH2A)
MILLWORK MW07
EAST ELEVATION

1D
SCALE: 1/2" = 1'-0"



CLERICAL SPACE (PH2A)
MILLWORK MW07
NORTH ELEVATION

1C
SCALE: 1/2" = 1'-0"

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A6.03 WALL PROTECTION
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A6.19 KEY LOCK
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A6.21 RESERVED

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A6.23 3/4" THICK PLYWOOD PANEL
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A6.25 TRANSLUCENT FILM (TF1) INSTALLED ON CORRIDOR SIDE
A6.26 4" H X 3/4" THK PLYWOOD BACK SPLASH

ARCHITECT :



WWW.DCYTARCHITECTURE.CA

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NA	REVISION	DATE	BY

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UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO MILLWORK PLANS & ELEVATIONS

SCALE:
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DATE:
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JOB No.:
DCYT2009

PHASE 2
A6.03

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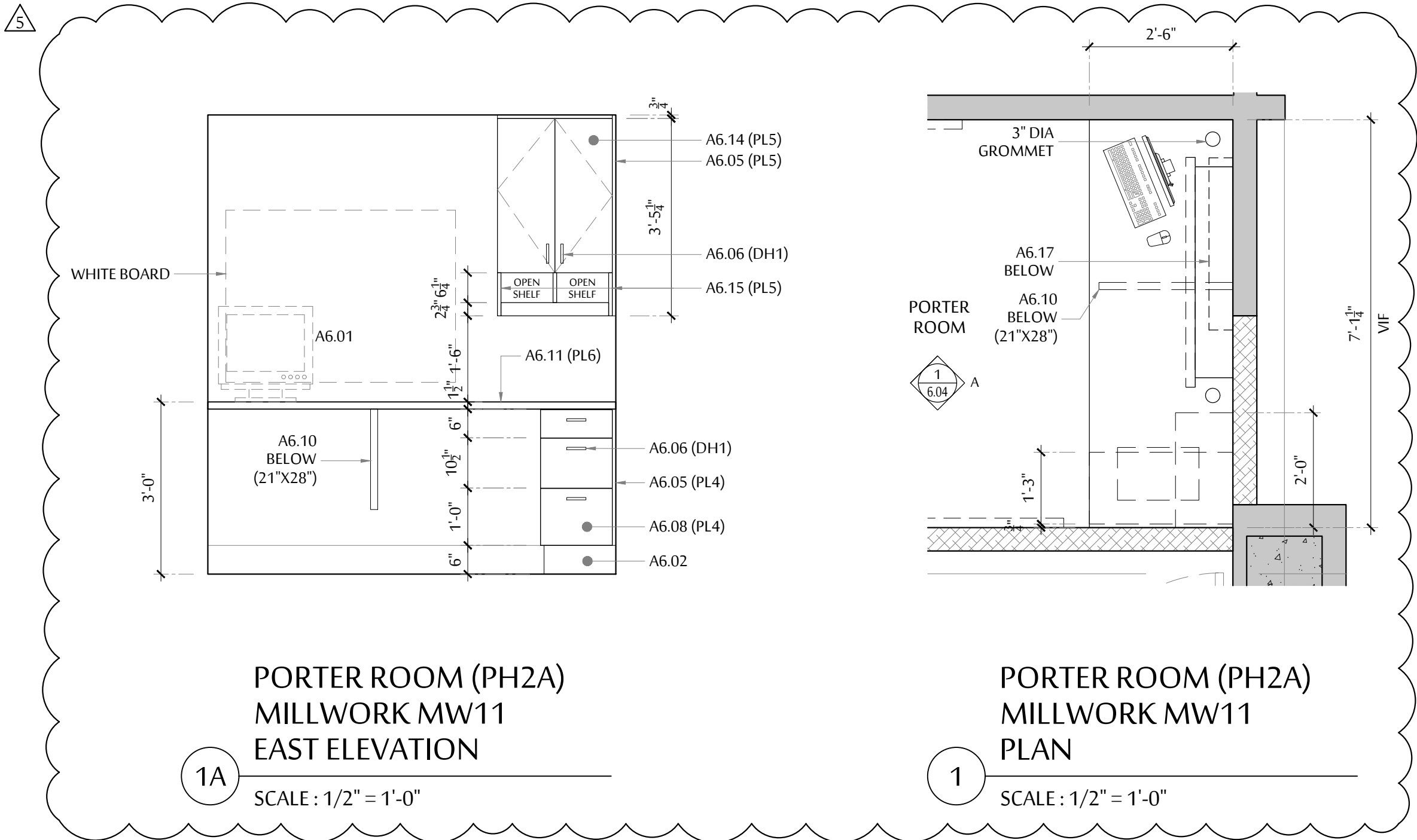
UHNBC
FLUOROSCOPY
REPLACEMENT

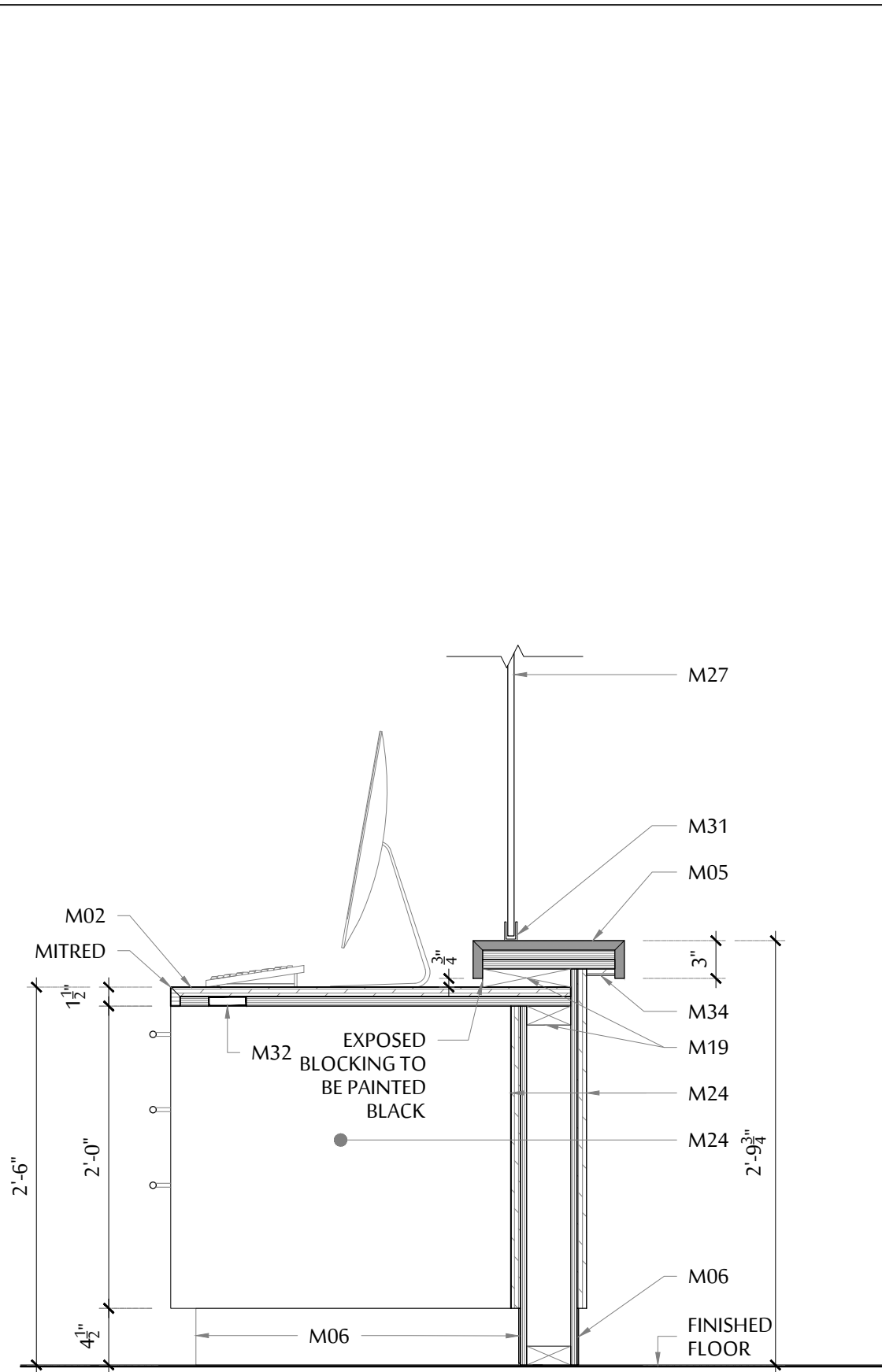
1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
MILLWORK PLANS &
ELEVATIONS

SCALE:
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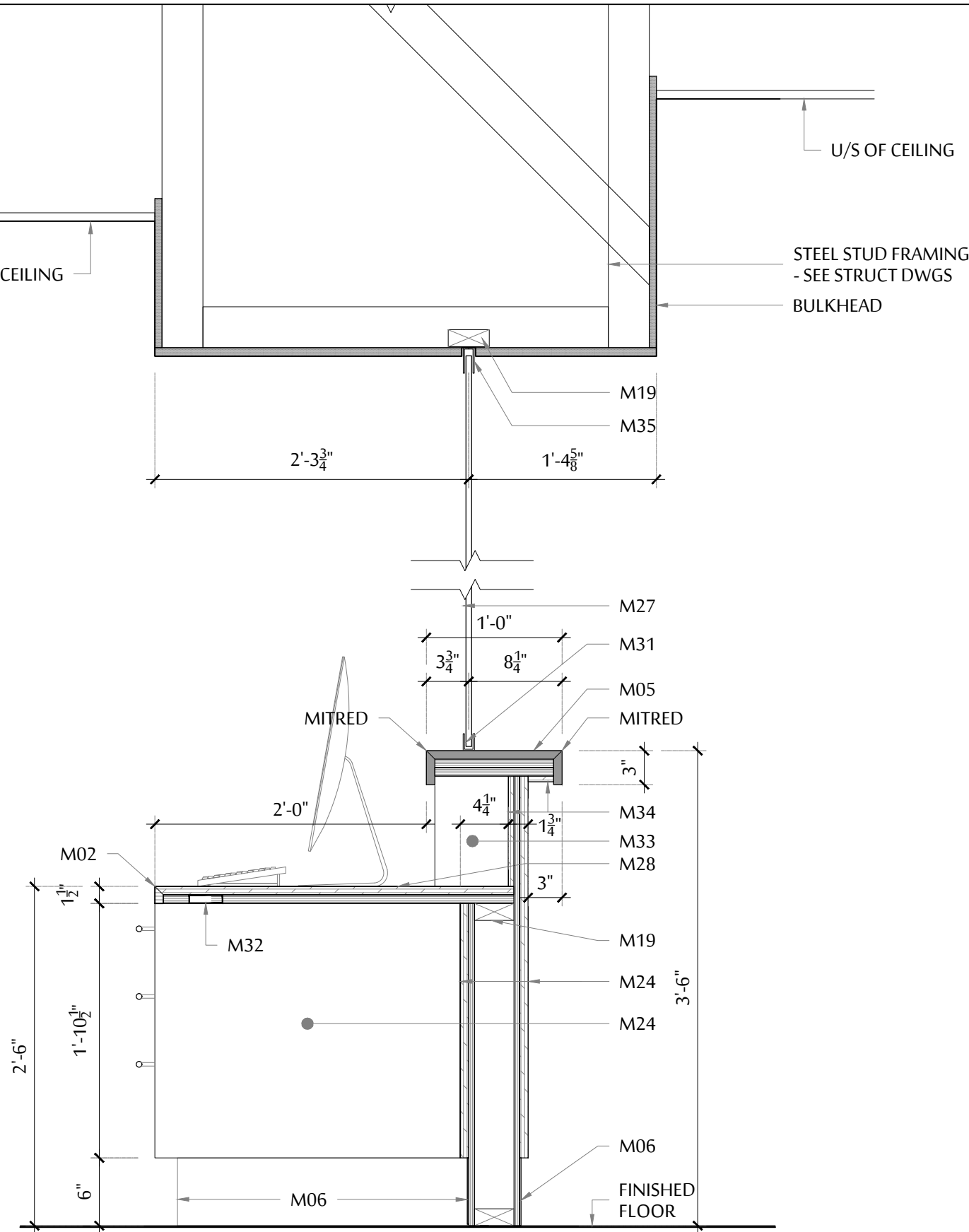
PHASE 2
A6.04





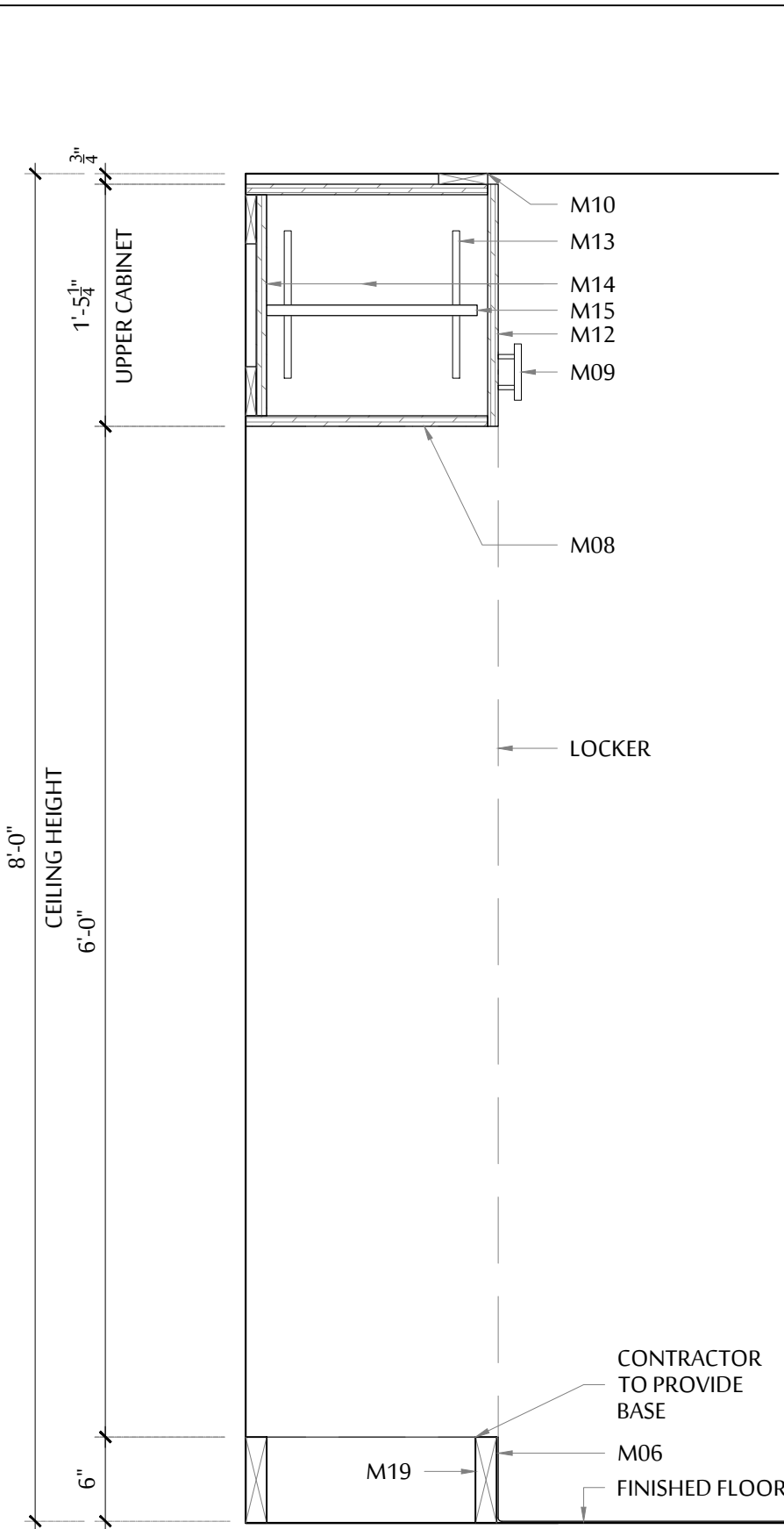
CLERICAL SPACE RECEPTION LOWER
HEIGHT COUNTER SECTION

SCALE : 1" = 1'-0"



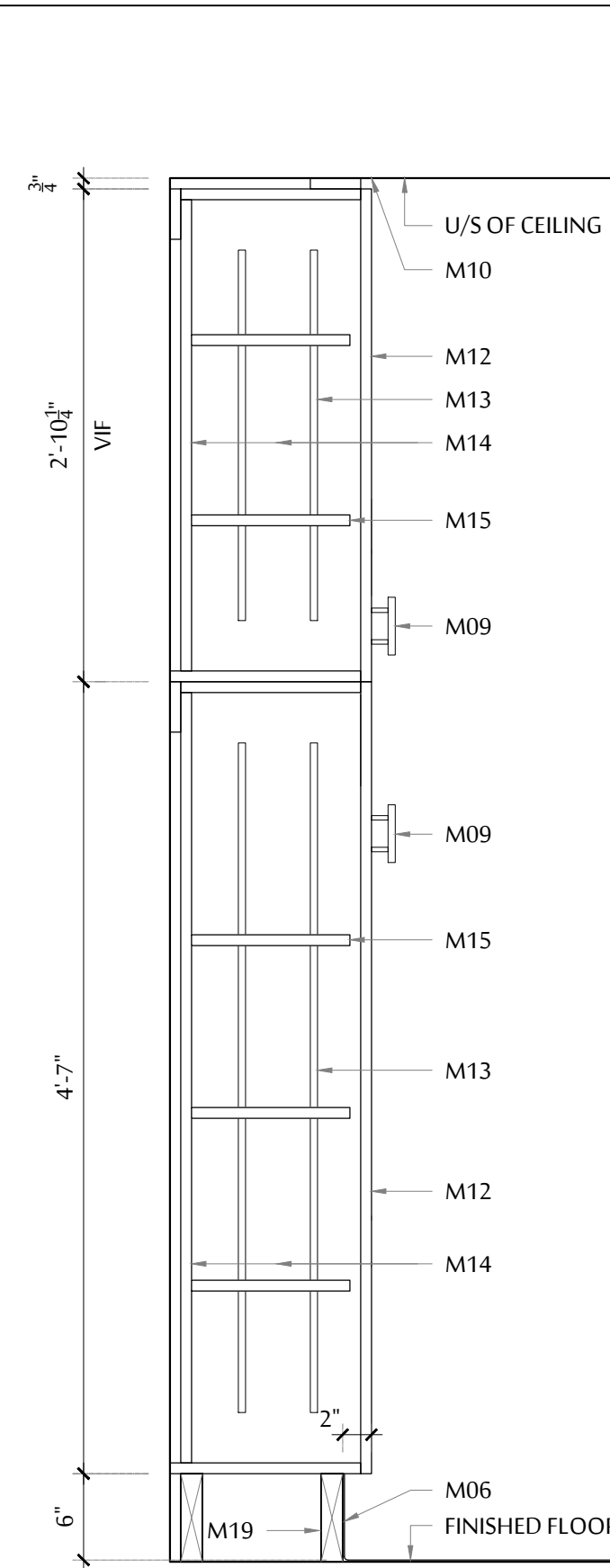
CLERICAL SPACE
RECEPTION DESKTOP SECTION

SCALE : 1" = 1'-0"



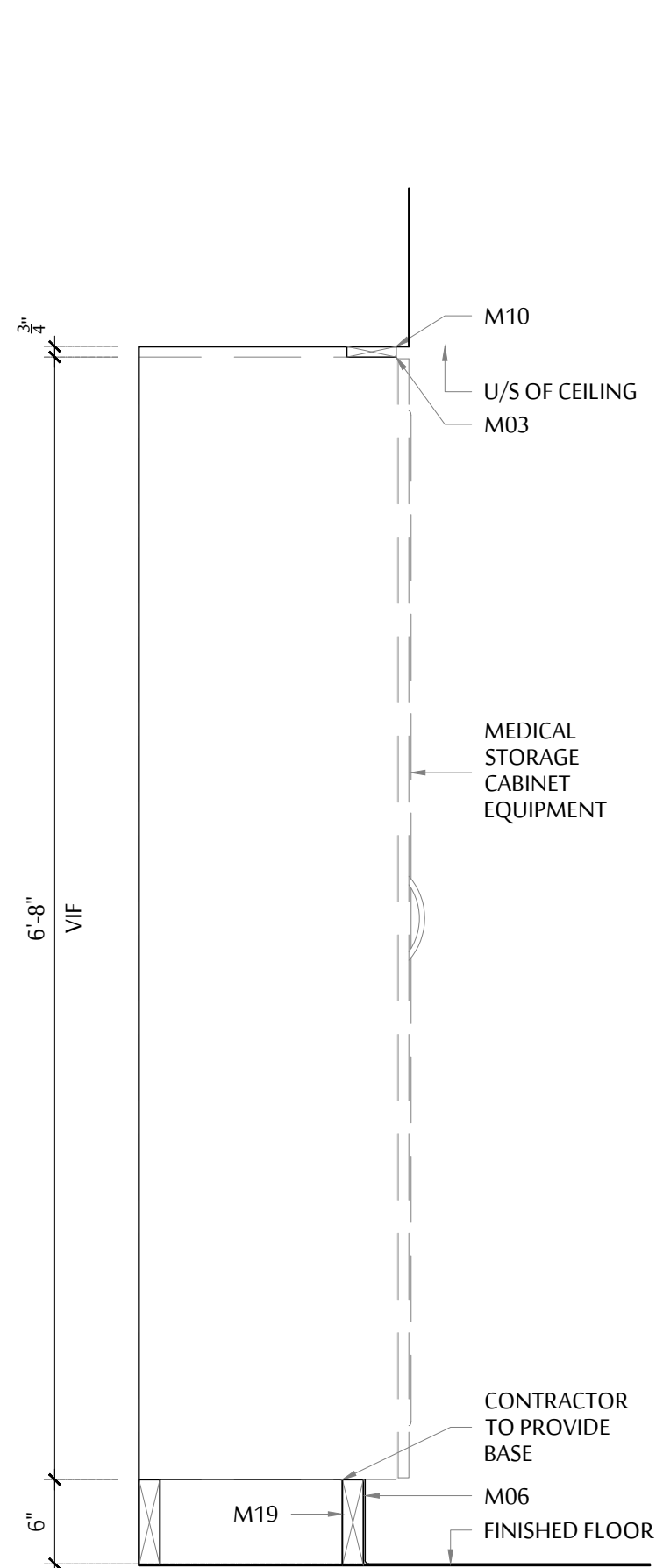
CORRIDOR 1110
LOCKER UPPER CABINET SECTION

SCALE : 1" = 1'-0"



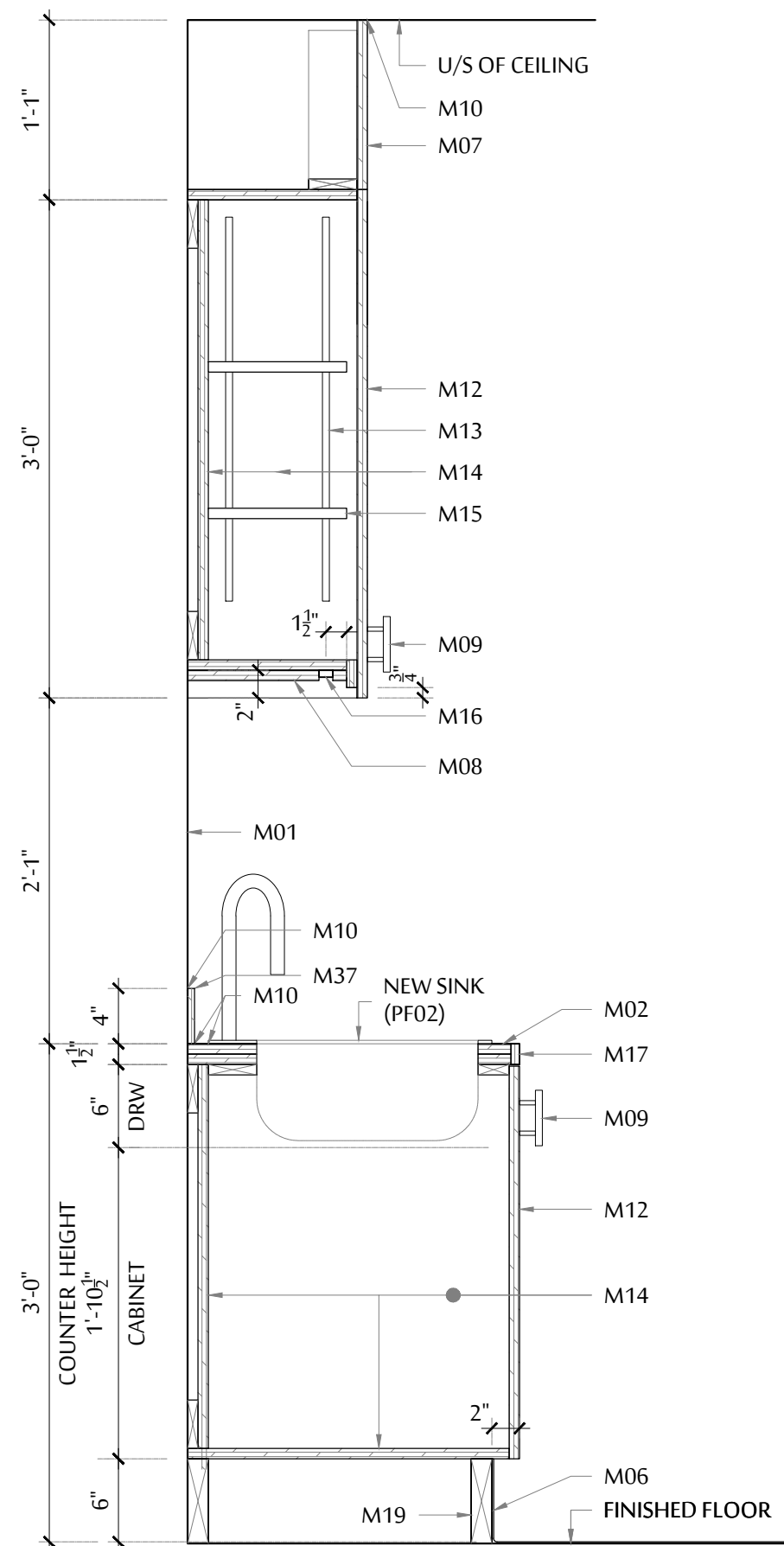
RECOVERY ROOM
FULL HEIGHT CABINET SECTION

SCALE : 1" = 1'-0"



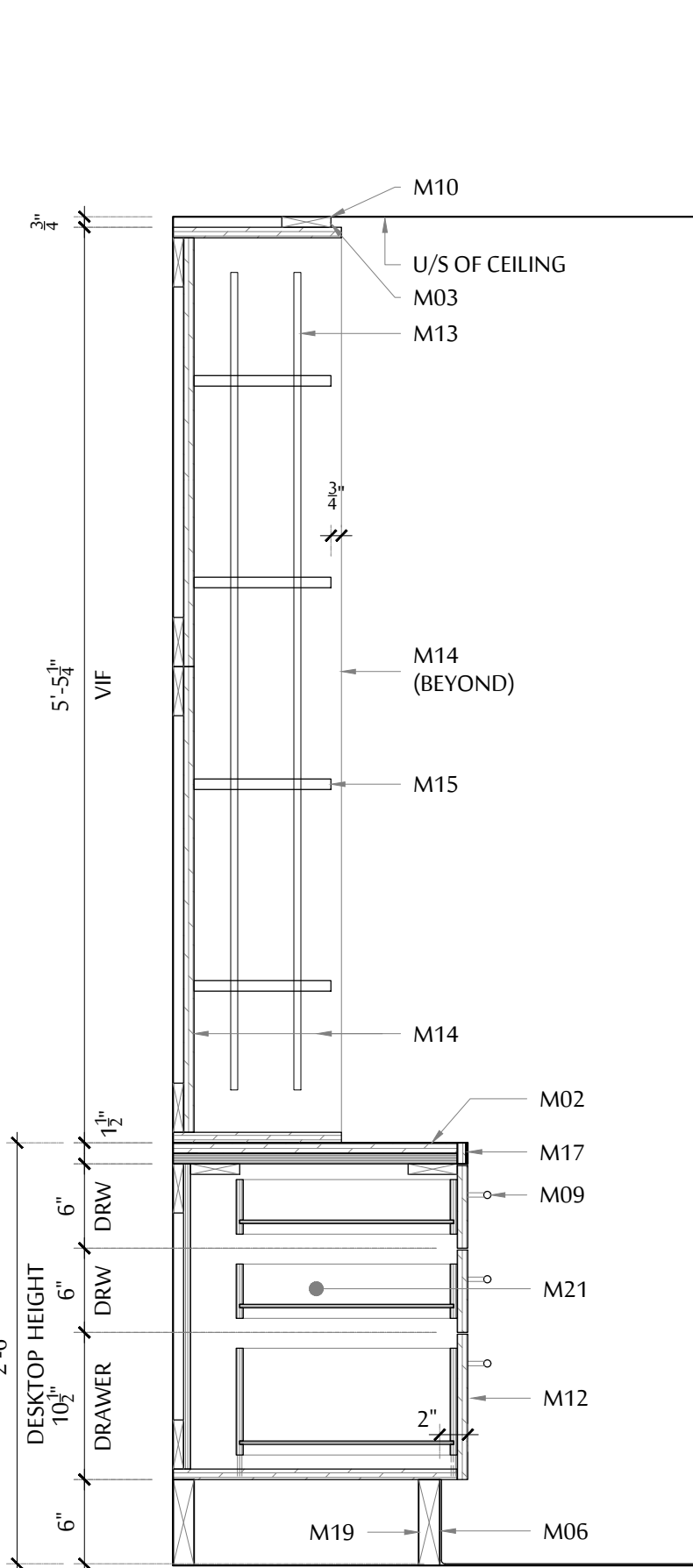
GENERAL FLUOROSCOPY ROOM
MEDICAL STORAGE CABINET BASE &
FILLER PANEL SECTION

SCALE : 1" = 1'-0"



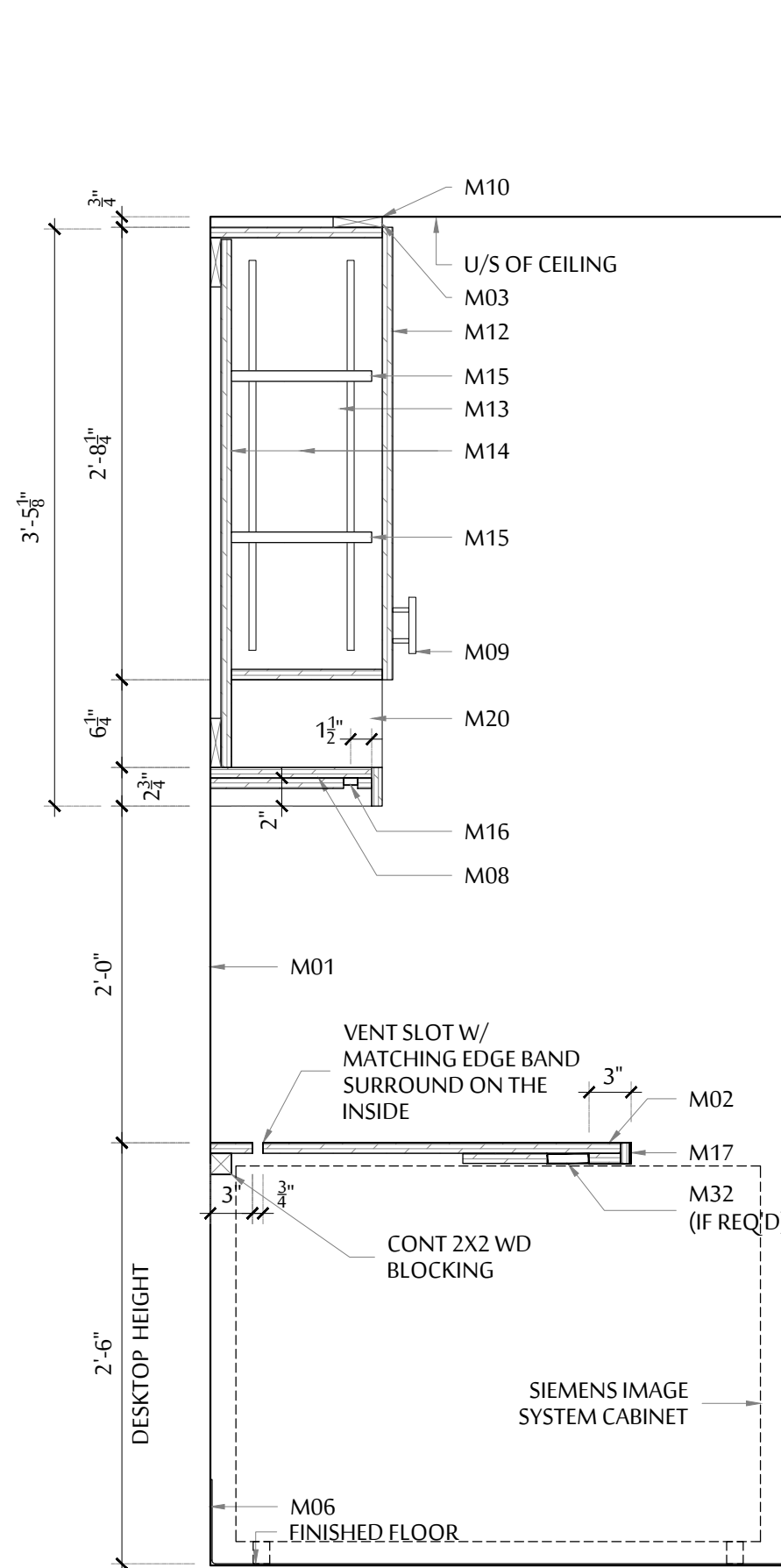
GENERAL FLUOROSCOPY ROOM
UPPER & LOWER CABINET
SECTION

SCALE : 1" = 1'-0"



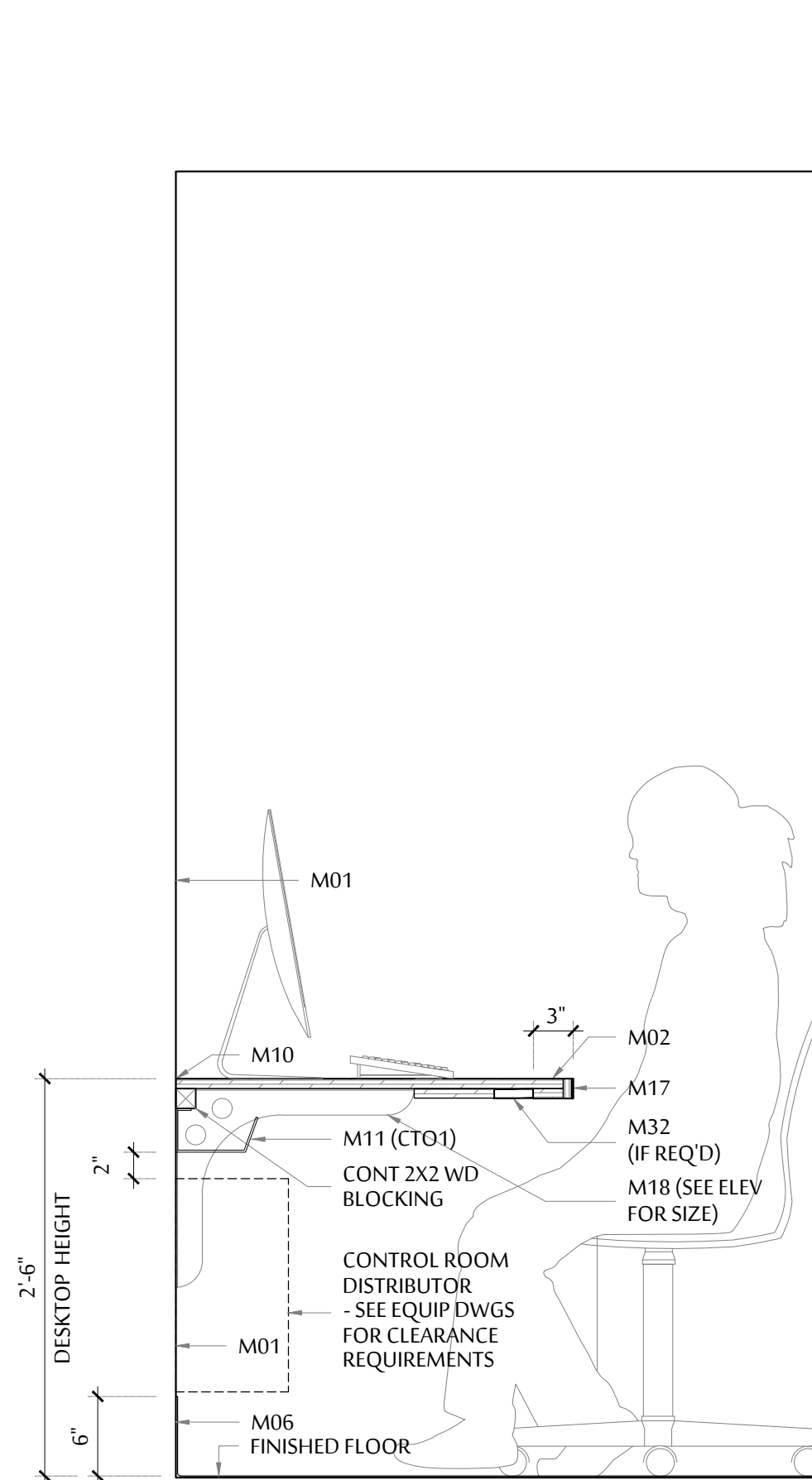
CONTROL ROOM DESKTOP UPPER
& LOWER CABINET SECTION

SCALE : 1" = 1'-0"



CONTROL ROOM DESKTOP UPPER
CABINET SECTION

SCALE : 1" = 1'-0"



CONTROL ROOM DESKTOP
SECTION

SCALE : 1" = 1'-0"

INTERIOR KEY NOTES

1. ALL WORKS BELOW ARE NEW INCLUDING SUPPLY & INSTALLATION OF MATERIALS U.N.O.
2. SEE DWG AS.03 FOR FINISHES
3. ALL WOOD GRAIN FINISHES TO BE ORIENTED VERTICALLY WITH CLEAR LACQUERED FINISH & TO BE BOOK-MATCHED U.N.O.
4. ALL CABINERY DOOR HINGES AND DRAWER SLIDES TO BE SOFT-CLOSING U.N.O.
5. CASEWORK BACKS NOTED AS 'DOWEL CONSTRUCTION' MUST BE SCREWED TO CASE BODY & NAILED OR STAPLED TO DIVISIONS & FIXED SHELVES.
6. ALL GAPS BETWEEN DOORS OR BETWEEN DOORS AND FIXED PANEL TO BE 1/16" WIDE.

- M01 PAINTED DRYWALL
M02 DESKTOP WITH 3/4" THK PLYWOOD WITH PLAS LAM FINISH & MATCHING EDGE BAND
M03 FILLER PANEL WITH MATCHING FINISH
M04 RESERVED
M05 COUNTERTOP WITH 3/4" THK PLYWOOD WITH PLAS LAM FINISH & MATCHING EDGE BAND
M06 FLOOR BASE - SEE MILLWORK ELEVATIONS
M07 3/4" THK TOP PANEL WITH PLAS LAM FINISH
M08 3/4" THK END PANEL WITH PLAS LAM FINISH
M09 CABINET DOOR PULL
M10 CONT COLOR MATCHING CAULKING WHERE MILLWORK MEETS WALL AND FLOOR AND SUSPENDED ACOUSTIC CEILING
M11 36"W WIRE POWDER COATED STEEL BASKET CABLE TRAY MOUNTED TO UNDERSIDE OF DESK
M12 3/4" THK MDF CABINET DOOR OR DRAWER FRONT WITH PLAS LAM FINISH & MATCHING EDGE BAND
M13 ADJUSTABLE RECESSED METAL SHELF STANDARDS (TYP)
M14 3/4" PLYWOOD BUILT CABINERY WITH PLAS LAM FINISH - ALL EXPOSED FASTENERS TO BE COUNTERSUNK WITH MATCHING SCREW COVERS
M15 ADJUSTABLE 3/4" THK PLYWOOD SHELF WITH PLAS LAM FINISH W/ MATCHING EDGE BAND
M16 LED STRIP LIGHTING WHERE INDICATED ON ELEC DWG
M17 EDGE BAND TO MATCH COUNTERTOP FINISH
M18 BLACK SPEEDBRACE METAL BRACKET
M19 WOOD BLOCK FRAMING
M20 1 1/2" THK END OR SIDE PANEL WITH PLAS LAM FINISH
M21 3/4" PLYWOOD BUILT DRAWER CABINET WITH PLAS LAM FINISH - ALL EXPOSED FASTENERS TO BE COUNTERSUNK WITH MATCHING SCREW COVERS
M22 FIXED 3/4" THK PLYWOOD SHELF WITH PLAS LAM FINISH W/ MATCH EDGE BAND
M23 RESERVED
M24 3/4" THK PLAS LAM PANEL
M25 3/4" THK SOLID SURFACE ON (2) 3/4" THK PLYWOOD (NOT USED)
M26 RESERVED
M27 1/2" MONOLITHIC CLEAR, TEMPERED GLASS - SEE WINDOW SCHEDULE AS.02 FOR DETAILS
M28 RESERVED
M29 RESERVED
M30 RESERVED
M31 1 1/2" DEEP 1/8" THK STAINLESS STEEL U-CHANNEL W/ SATIN FINISH ANCHORED TO RECEPTION DESK - SEE WINDOW SCHEDULE AS.02 FOR DETAILS
M32 1 PIECE CONT 3/4" X 3" SUPPORTING STEEL SECTION UNDER COUNTERTOP
M33 3/4" PLYWOOD DIVIDER FINISHED AS SPEC'D BOTH SIDES
M34 1/2" THK PLAS LAM PANEL
M35 2 1/4" DEEP 1/8" THK STAINLESS STEEL U-CHANNEL W/ SATIN FINISH - SEE WINDOW SCHEDULE AS.02 FOR DETAILS
M36 WALL PROTECTION - SEE FINISH SCHEDULE
M37 4" H X 3/4" THK PLYWOOD BACK SPLASH

ARCHITECT :



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12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
11	NOT ISSUED	-	-
10	TENDER ADDENDUM 5	JULY 26, 2021	RC
9	TENDER ADDENDUM 2	JUNE 16, 2021	RC
8	NOT ISSUED	-	-
7	ISSUED FOR TENDER	JUNE 4, 2021	RC
6	NOT ISSUED	-	-
5	NOT ISSUED	-	-
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
No.	REVISION	DATE	BY

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UHNBC
FLUOROSCOPY
REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2 - GEN FLUORO
MILLWORK SECTIONS

SCALE:
AS NOTED
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

PHASE 2
A6.05

01 10 00 GENERAL REQUIREMENTS

1. Construction Documents, Pricing and Contract:

- 1.1. All Enquiries related to these documents, including any requests for information and clarification and to note any discrepancies, omissions or incompleteness, are to be directed by email to the Architect.
- 1.2. Proposed alternatives to the specified materials, along with a full description and justification for the alternative, may be submitted in writing to the Architect for approval.
- 1.3. At time of pricing, Contractor is responsible to visit and carefully examine the site, the access thereto, all existing conditions, utilities and services which may have to be protected, removed, or relocated, and all limitations and difficulties which may be encountered. No claim will be allowed or entertained for any work or material that may be required for the proper execution and completion of the work that should be uncovered during the site examination.
- 1.4. Form of Contract : Canadian Construction Documents Committee CDOC22008 Stipulated Price Contract and Supplementary Conditions as listed on this documents

2. Owner's Rules and Regulations:

- 2.1. Contractor shall conform to **CSA Z317.13-17** "Infection control during construction, renovation, and maintenance of health care facilities".

3. Site Conditions:

- 3.1. Site will be occupied and remain in use throughout the duration of Work.
- 3.2. All work required to be out of normal hours shall be coordinated with and shall have prior approval of the owner.
- 3.3. The Contractor shall not disturb existing building(s) or site service(s) or cause inconvenience to the Owner or to patients, residents or staff without the Owner's prior written approval.

4. Work Safety:

- 4.1. The Contractor and Subcontractors in performing the work shall comply with **any** Workplace Health & Safety Programs in place as required by the **Owner**
- 4.2. The Contractor is responsible for ensuring that work is performed in a safe manner per Worksafe BC Occupational Health & Safety Regulations (WSBC OHSR).

- 4.3. Labor Rules : It is the responsibility of the Contractor and his Subcontractors to ascertain the labour conditions existing on the sites), with particular reference to union or non-union labour, and to comply with these conditions. The cost of doing so shall be included in the bid price.

5. Codes, Permits & Inspections:

- 6.1. A building permit will be obtained by **Owner or Architect**.
- 6.2. The Contractor shall obtain all other permits and pay all fees relating to the Work to all authorities having jurisdiction.
- 6.3. Specific Hospital's rules & regulations as required by the hospital shall be adhered to by the Contractor.

- 6.4. Parking : Unless noted otherwise, no on-site parking will be allowed. Contractor and sub-contractors are to arrange parking arrangement at no cost to the **Owner**.

6. Material and Equipment Transportation:

- 8.1. Elevators may not be available to Contractor for movement of construction materials or demolition debris. Contractor shall coordinate and obtain approval from **Owner** if elevators are required.
- 8.2. Where material or equipment is being transported within the existing building(s) on carts or pallets, such carts or pallets shall have non-marking tires.

9. Garbage Removal : The Contractor shall be responsible for the removal of all rubbish and waste on a daily basis at a time approved by the **Owner** and shall permit no accumulation of rubbish and/or waste at any time.

10. Salvage Materials:

- 10.1. Salvaged material and equipment, specified to accrue to the Owner, shall be protected from dust, moisture and other damage, and delivered to the **Owner** at a time and place agreed by the **Owner**.
- 10.2. Salvaged material and equipment specified for reinstallation shall be protected and refurbished to the Owner's satisfaction.
- 10.3. All other salvageable material and equipment shall become the property of the Contractor and shall be removed from the site immediately.

11. Existing Services Connections and Disruptions:

- 11.1. The Contractor is responsible for verifying the location of all existing services before performing work in any area.
- 11.2. Contractor to coordinate shutdown of existing services with the **Owner** and obtain approval from **Owner seven (7) Working Days** prior to shut down.
- 11.3. If, because of the **Owners** operation, it is required that the work be done outside of normal working hours, the cost of such overtime incurred by the Contractor will be the Contractor's responsibility.

12. Final Clean Up:

- 12.1. The Contractor shall examine and clean all fixtures and installations to produce intended appearance and use; remove all paint spots, stains, rubbish, debris, tools and equipment from all areas, and leave in final class order.
- 12.2. The Contractor shall wash down and dry all floors, stairs and wall surfaces; brush off, dust and polish all ledges, stairs, steps, etc.; clean and polish all glass, mirrors, and remove all paint, putty and dirt.

13. Site Meetings:

- 13.1. The Contractor shall convene regularly scheduled construction meetings to expedite the Work with representative of the Contractor, Mechanical Subcontractor, Electrical Subcontractor, Owner's representative(s) and all Consultant(s) present.
- 13.2. Minutes shall be taken by the Contractor and issued to each of the above-mentioned persons, no later than **three (3) Working Days** after each meeting.

14. Fire Regulations:

- 14.1. Contractor and its Subcontractors shall promote fire prevention in their Work and comply with the fire regulations. Hoarding and site must match the fire dept regulations of the authority having jurisdiction.
- 14.2. The Contractor will provide fire extinguishers as required during construction per local codes and the provisions of WSBC OHSR in order to provide a safe workplace.
- 14.3. Contractor shall post a construction fire safety plan consisting of fire response procedures, fire prevention procedures and evacuation route plans. Plans must be approved by the local Authority Having Jurisdiction.
- 14.4. Any 'hot work' shall be performed in accordance with Owner's Hot Work Program. The Contractor will request a Hot Work Permit from the Owner whenever hot work is to be conducted.

15. Noise and Vibrations:

- 15.1. Excessively noisy construction activities that could affect the normal operation of the Hospital or patients shall be scheduled in advance with the Owner's representative.
- 15.2. The Contractor shall at all times comply with Part 7 of WSBC OHSR and local municipality or jurisdictions' requirements for noise abatement

16. Hazardous Materials:

- 16.1. Contractors must comply with WSBC OHSR and Workplace Hazardous Materials Information System (WHMIS) for all Hazardous Materials used at the worksite.
- 16.2. All hazardous products must be labeled in accordance to WHMIS regulations.
- 16.3. 72-hour advance notice must be provided if temporary relocation of workers is required.
- 16.4. Adequate ventilation must be provided for the type and quantity of controlled product used.
17. Asbestos: 17.1. Asbestos Containing Materials (ACM) may be encountered at worksites. 17.2. If ACM is suspected at the project area, Contractor must stop work, report to **Consultant** and request for instruction. 17.3. Safe work procedures, in accordance to WSBC and **Owner** requirements, must be followed for all work conducted in areas where asbestos may be contacted or disturbed. 17.4. A qualified asbestos abatement contractor must do the removal, encapsulation and enclosure of ACM.

18. Occupational First Aid

- 18.1. The Contractor shall arrange for the provision of occupational first aid at the worksite as per the requirements of WSBC OHSR.

01 15 10 INFECTION CONTROL

1. References

- 1.1. Canadian Standards Association (CSA). 1.1.1. **CAN/CSA Z317.13-17**: "Infection control during construction, renovation, and maintenance of health care facilities".
- 1.2. American Society of Heating Refrigeration and Air-Conditioning Engineers (ASHRAE): 1.2.1. 52.2-2007: "Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size". 1.2.2. ASHRAE 62.1-2007: "Ventilation for Acceptable Indoor Air Quality".

2. Occupancy & Construction Schedule

- 2.1. Apply special procedures specified under this section to suit **Owner's** occupancy and construction schedule.
- 2.2. Adjacent Owner Occupied Areas: 2.2.1. All **Hospital** building areas will remain occupied & functional during the work. 2.2.2. Maintain special procedures in effect to protect occupied areas: 2.3.1. During construction and clean-up operations 2.3.2. Until substantial completion of the Work.
3. Co-ordination and Co-operation with the Owner's Infection Control. 3.1. Co-operate with the Owners Infection Control Practitioner and Team to coordinate the special procedures work with the Hospital's Infection Control. 3.2. Immediately modify special Procedures Operations as necessary to ensure compliance with the requirements of this section. 3.3. Owners designated infection control specialist has the authority to close down the site due to non-compliance with the requirements of this section.

4. Infection Control Plan, if applicable

- 4.1. Within **seven (7) Working Days** of award and prior to commencement of the Work, submit to the **Consultant** for review and acceptance by the **Owner**, the Contractor's Site specific Infection Control Plan, outlining in detail, the methods, operations and controls which shall be used during the construction to meet the requirements specified under this Section. 4.2. Acceptance by the **Owner**, of the contractor's Infection control plan, indicates only that the Contractor has indicated an understanding and knows the requirements of these special procedures specified for infection control during the Work. 4.3. Testing: the **Owner** reserves the right to test efficiency of the Infection control measures. 4.4. A copy of the site specific Infection control plan shall be kept on the site at all times and made available to **Hospital** staff upon request. The Contractor shall provide a location for daily infection control review log to be maintained at the entrance to the construction zone. 4.5. No work will be permitted to progress on the site until such time as the infection control plan has been reviewed and accepted by the **Owner**.

5. Project Conditions, if applicable

- 5.1. Class IV preventive measure (includes classes I, II, and III) are required in accordance with **CAN/CSA Z317.13-17** and as indicated: 5.1.1. Where conflict between this Section and the referenced **CSA** standard occurs, this Section will prevail. 5.2. Provide air movement from adjacent areas into the Work area that exceeds 10m/min. 5.3. Provide negative pressure differential between Work area and adjacent areas of no less than 7.5 Pa. 5.4. Provide continuous digital pressure gauge monitor with printout capabilities. 5.5. Total particulate and fungal spore concentration measure in the Work area after construction and in occupied areas during or after construction are not to exceed prescribed construction concentrations or an adjacent control sample as deemed appropriate by the **Owner**.

6. Existing Conditions

- 6.1. Should material resembling mould, or other type of fungi, be encountered in the course of Work, notify the **Consultant** immediately. The Contractor shall not disturb any existing mould or fungi until approval has been received from the **Consultant**.

7. Environmental - Biological Air Sampling

- 7.1. Air sampling to be performed and paid for in accordance with Section 01 00 00 - General Requirements. 7.2. Coordinate collection of initial and clearance air sampling with the **Consultant**. 7.3. Initial air sampling to establish baseline of existing airborne contaminants for comparison during construction sampling and clearance sampling. Initial air sampling shall include outdoor samples for comparative analysis.

8. Worker and Visitor Protection

- 8.1. Provide disposable type protective clothing to workers and authorized visitors in use of protective clothing. 8.2. Instruct workers and authorized visitors in use of protective clothing. 8.3. Instruct workers and authorized visitors in proper procedures to be followed in entering into and exiting from the Work area. 8.4. Provide posted notice at all entrances to the construction area indicating proper procedure and requirements for specialized protective equipment.

9. Control Procedures for Ventilation

- 9.1. It is expected that the Work of this Contract will generate more than normal dust particles into the atmosphere around the Hospital. 9.2. The Contractor will monitor the building ventilation system and replace filters in the main building ventilation intakes to suit. 9.3. The Contractor will, in addition, adjust the building systems to provide positive air pressure in rooms deemed sensitive for infection control.

10. Work Required in Existing Hospital Building, if applicable

- 10.1. Ensure that construction workers wear protective clothing that is removed each time they leave the construction site before going into the Hospital. 10.2. Construct Anti-Room at the entrance(s) to work areas designated for use by the Contractor in accordance with **CAN/CSA Z317.13-17**. 10.3. No access will be permitted directly between the Work area and the Hospital building except by permission of the Hospital, and after decontamination as recommended by the referenced standard. 10.4. Provide booties, germicidal spray and Walk-off Mats. 10.5. Use designated entrance(s) (only) as indicated on drawings for access to existing building. 10.6. Contractor's staff shall minimize access to common areas of the project site. Whenever access is required, the Contractor shall ensure that appropriate cleaning procedures are followed. Unrestricted access is acceptable for emergency health care purposes only.

11. Materials

- 11.1. Provide construction materials and assemblies to meet requirements of this Section.

12. Equipment

- 12.1. Air scrubber: provide portable air filtration and isolation control equipment with minimum peak airflow of 1800 cfm and multi-stage filtration as follows: 12.2. First stage - coarse particulate pre-filter 12.3. Second stage - pleated pre-filter 12.4. Third stage - carbon filter for odors 12.5. Final stage - 99.97% at 0.3um level HEPA filter 12.6. Acceptable Airborne: 3-µm-Air P2000 HC as manufactured by "Abatement Technologies Inc.", (800-227-6449) or equivalent. 12.7. Provide fans, filters and ductwork to provide air movement and maintain negative pressure as indicated. 12.8. Equipment to be certified within past 12 months. Submit documentation to Hospital prior to construction.

13. Preparation

- 13.1. Verify established travel patterns for construction workers with the **Consultant and Owner**.

14. Dust and Particulate Control

- 14.1. Execute the Work by methods to minimize raising dust from construction operations. 14.2. Use drop sheets to control dust. 14.3. Control dust by water-mist spraying while cutting. 14.4. Ensure that windows, doors, plumbing penetrations, electrical outlets and intake and exhaust vents are properly sealed with plastic and duct sealed in the Work area. 14.5. For exterior work adjacent to windows in an existing facility, test window openings for air tightness and seal windows that leak. 14.6. Verify the Contractor's method of window-mounted air conditioning units facing construction operations are shut down. 14.7. Place walk-off mats outside entrance(s) to the Work area. Vacuum daily or when visibly soiled using a HEPA filter-equipped vacuum cleaner. 14.8. Erect an impermeable dust barrier from true ceiling (includes areas above false ceilings) to floor consisting of a minimum of 2 layers of 0.15mm polyethylene. 14.9. Dust barriers to be maintained and remain in place until the Work is completed and removal has been approved by the **Consultant** and the Hospital's Infection Control Practitioner. 14.10. Verify that workers wear protective clothing. Workers are to remove protective clothing each time they leave the Work area before going into the Hospital. 14.11. Construct an Anteroom at access points to the Work area if access is from within the health care facility. 14.12. Place a walk-off mat outside the Anteroom in the Hospital and inside the Anteroom to trap dust from workers shoes and from equipment and debris that leaves the Work area.

- 14.13. During periods of heavy demolition, the construction workers shall utilize two pairs of footwear. One pair of footwear shall be used for access outside of the Work area and in the anteroom. The second pair of footwear shall be for areas inside the Work area and in the anteroom. Construction workers shall change footwear when traveling from inside the Work area to outside the Work area. 14.14. Verify that workers leave the Work area through the anteroom so they can remove protective clothing and be vacuumed with a HEPA filter-equipped vacuum cleaner before leaving. 14.15. Repair any holes in walls within 8 hours.

18. Ventilation

- 15.1. Coordinate shutdown of ventilation systems in the Work area with the **Consultant and Owner**. 15.2. Seal duct openings in the Work area until completed. 15.3. Maintain negative pressure between the Work area and adjacent existing areas by using air scrubbers. 15.4. Ventilation equipment to be equipped with pressure gauges and alarm. Alternatively, provide monitoring equipment for duration of project. 15.5. Verify that the Contractor is directed directly outside and away from intakes, vents, or filtered through a HEPA filter before being recirculated. 15.6. Maintain equipment filters to manufacturer's specifications. 15.7. The main buildings air handling system shall be disconnected from use in areas of renovation work. This will require cutting and capping of existing duct work on both the supply and return air systems. 15.8. Upon disconnection of the main building air handling system, the Contractor shall verify critical pressure relationships of remaining rooms serviced by the impact of this disconnection.

16. Plumbing

- 16.1. Do not use collection tanks or long pipes that allow water to stagnate. 16.2. Maintain a dry work environment. Report water leaks to the **Consultant** immediately. 16.3. Where plumbing work exceeds planned shutdown time, notify the **Consultant** immediately. Do not re-pressurize water systems until drawings are received from the **Consultant**. 16.4. Hyper chlorinate or superheat stagnant domestic water. Water lines in the Work area and adjacent patient care areas to be flushed before and after bacterial testing is deemed possible or if the water system is out of service in excess of one hour. 16.5. Contractor to coordinate with and notify the **Owner seven (3) Working Days** prior to any shutdown of the plumbing system. Minimize shutdowns of the water systems in the existing building.

17. Progress Cleaning

- 17.1. Exposure of occupants to debris is to be minimized. 17.2. Remove debris at the end of each shift. 17.3. Place supplies and equipment in covered containers when use in Work area. Color charts to be kept on site for representative of product manufacturer's complete range of standard colors. 17.4. Clean the Work area with HEPA filter-equipped vacuums and wet mop, or both, at the end of each work shift and as necessary.

18. Reinstatement

- 18.1. Barriers to be vacuumed with HEPA-filter equipped vacuum cleaners and wiped down with disinfectant before removal. Remove dust barriers carefully to minimize spreading dust and other debris particles associated with the Work. 18.2. Clean the Work area with HEPA-filter equipped vacuums and wet mop. 18.3. Before the Work area is occupied coordinate clearance sampling with the Managing 18.4. Where clearance sampling fails to meet baseline sampling, maintain ventilation and air cleaning equipment until acceptable levels are achieved. 18.5. Ensure ventilation system is functioning properly and is cleaned if contaminated by soil or dust after the Work is complete.

01 32 16 CONSTRUCTION SCHEDULE

1. The Contractor shall:

- 1.1. Prepare and submit to the Consultant within **ten (10) Working Days** of the contract award, a horizontal bar chart construction schedule indicating the timing of all major activities of the Work, to demonstrate the Work will be performed in accordance with the Contract Time. 1.2. Monitor the progress of the Work relative to the construction schedule and update the schedule on a monthly basis for Consultant review at time of submission for application for payment. 1.3. Promptly advise the Consultant of any revisions required to the schedule as a result of extensions of the Contract Time 1.4. provide a report to define problem areas, anticipated delays, the impact on the schedule, corrective action recommended and its effect

01 33 00 SUBMITTAL PROCEDURES

1. Administrative

- 1.1. Submit to Consultant submittals listed for review. Submit with reasonable promptness and in an orderly sequence so as to not cause delay to the Work. Work affected by submittals will not proceed until review is complete. 1.2. Review submittals prior to submission to Consultant. Review represents that resolution between the Contractor and Consultant is required or will be, and that each submittal has been checked and coordinated with the requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined or reviewed. 1.3. Verify field measurements and affected adjacent Work are coordinated. 1.4. Contractor's responsibility for errors and omissions in submission is not relieved by Consultants review of submittals. 1.5. Contractor's responsibility for deviations in submission from requirements of Contract Documents is relieved by Consultants review. 1.6. Keep one reviewed copy of each submission on site.

2. Submittals Checklist

- 2.1. Submit within **five (5) Working Days** of execution of Agreement: 2.1.1. Evidence of required insurance coverages. 2.2. Submit within **ten (10) Working Days** of Contract award: 2.2.1. Performance bond or Performance and Payment Bond. 2.2.2. Evidence of compliance with WorkSafe BC. 2.2.3. Construction Schedule. 2.2.4. Name of site superintendent and list of site and management personnel to be employed on Project. 2.2.5. Executed Articles of Agreement. 2.3. Submit prior to making 1st application for payment. 2.3.1. Requirements in accordance with **GC 5.1, APPLICATION FOR PAYMENT**.

2.3.2. Schedule of values

- 2.3.2.1. Submit with each and every application for payment subsequent to the first. 2.4.1. Statutory Declaration CDDC 9A from the Contractor, Statutory Declaration CDDC 9B from each of the Subcontractors 2.5. Submit during progress of Work as follows: 2.5.1. Samples and shop drawings. 2.5.2. Copies of test reports, other than those prepared or obtained by Owner appointed testing agencies. 2.5.3. Copies of inspection reports issued by authorities. 2.5.4. Copies of permits, licenses, certificates and receipts for fees paid. 2.5.5. Revised construction schedule. 2.5.6. Submit at Substantial Performance of Work as condition thereof: The Contractor may make application for a Certificate of Substantial Performance when the Work is ready for use by the Owner for the purpose intended and when the following items have been provided (where applicable) to the Consultant: 2.6.1. All required manufacturers' inspections, certifications, guarantees, warranties as specified in the Contract Documents; 2.6.2. All maintenance manuals, operating instructions, maintenance and operating tools, replacement parts or materials, reserve maintenance replacement material as specified in the contract Documents; 2.6.3. All required "as-built" or "as-installed" drawings in the form specified in the Contract Documents; 2.6.4. Certification by all testing, cleaning, or Inspection Authorities or Associations as specified in the Contract Documents; 2.6.5. Certification by all permit issuing authorities indicating approval of all permitted installations; 2.6.6. Certification by WorkSafe BC that the contractor and all subcontractors are in good standing. 2.6.7. Statement indicating reconciliation of all Change Orders, cash Allowances and/or other claims to the Contract; 2.6.8. Occupancy Permit from the Local Authority; 2.6.9. A list of major items to be completed or corrected, including the time required to perform the work and a value thereof as well as the proposed completion date. 2.7. Submit direct to the Owner, 55 Days from the date of Substantial Performance of Work: 2.7.1. Application for release of lien holdback monies. 2.7.2. State of Title Certificate dated the day after expiry of the lien period stating that no liens have been filed against the project. 2.7.3. WorkSafe BC Clearance Letter. 2.7.4. Statutory Declaration CDDC 9A - 2001 from the Contractor; Statutory Declaration, CDDC 9B - 2001 from the each of the Subcontractors; in accordance with GC 5.5. 2.8. Submit with all billings forwarded to the Payment Certifier: 2.8.1. Application for payment. 2.8.2. Associated documentation as described and required.

2. Daily Work Records

- 3.1. Maintain complete and accurate daily records of progress of Work. 3.2. Include in reports weather conditions, commencement, progress and completion of various portions of Work, dates of material supply problems, records of workforce, material receipts and material supply problems, information and clarification requests, information, clarification and direction received and actions and events causing delays. 3.3. Verify and make daily work records available to Owner and Consultant upon request.

4. Shop Drawings & Product Data

- 4.1. Refer to **GC 9.10, SHOP DRAWINGS**, for governing requirements. 4.2. Shop drawings showing details of secondary structural systems and/or provision for seismic restraint of architectural systems and finishes, and mechanical, plumbing and electrical equipment and associated installations, shall include the approximate weight of the item to be restrained. The shop drawings shall be sealed by a qualified Professional Engineer registered to practice in the Province of British Columbia. The Professional Engineer shall be responsible for reviewing the method of seismic restraint and attachment to the structure with the Consultant prior to installation. 4.3. The Engineer responsible for sealing engineered shop drawings shall submit to the Consultant, British Columbia Code Schedule B-1 Assurance of Professional Design and Commitment for Field Review and B-2 Summary of Design and Field Review Requirements with the shop drawings. 4.4. The Engineer shall provide field review of the installation and submit to the Consultant, **BC Building Code** Schedule C-B Assurance of Professional Field Review and Compliance upon completion of the Work. 4.5. The contractor shall submit seismic restraint calculations upon request for review by the Consultant. 4.6. Where shop drawings are required to be sealed by a Professional Engineer, a certification of field review letter shall be submitted, sealed, signed and dated by the Professional Engineer, and submitted to the Consultant, prior to Substantial Performance. 4.7. All shop drawings to be submitted in **electronic PDF (portable document format)**, if requested by architect, additional two (2) paper copies of architectural, and three (3) paper copies of M&E shop drawings, and three (3) paper copies of plumbing and electrical shop drawings. 4.8. Submit shop drawings, product data sheets and brochures in metric units. Convert into metric units where information is not produced in metric. 4.9. Refer to Divisions 22, 23 and 26 for additional requirements particular to mechanical and electrical trades.

5. Samples and Color Charts

- 5.1. Submit samples and color charts in duplicate 5.2. Samples to be actual production items identical to those intended of use in Work. Color charts to be representative of manufacturer's complete range of standard colors. 5.3. Deliver prepaid to Consultants business address. 5.4. Notify Consultant in writing, at time of submission of deviations in samples and color charts from requirements of Contract Documents. 5.5. Adjustments made on samples and color charts by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to the Consultant prior to proceeding with Work. 5.6. Make changes in samples and color charts which Consultant may require, consistent with Contract Documents.

6. Operating and Maintenance Manuals

- 6.1. Refer to Section 01 10 00 General Requirements and 01 77 00 Closeout Procedures for Operating & Maintenance Manuals.

01 35 16 ALTERATION PROCEDURES

1. Protection

- 1.1. Take precautions to prevent damage to existing items being reused. 1.2. Seal heating and ventilating grilles in rooms where dust will develop during alteration. Take precautions to prevent dust from entering building duct systems.

2. Entrances and exits

- 2.1. Access to existing building is limited to areas immediately adjacent to new work. 2.2. Keep other existing entrances/exits free from obstruction throughout alteration work, in particular provide owner continuous access to emergency exits as required by authorities having jurisdiction. 2.3. Provide alternative and additional exits where required by authorities having jurisdiction. 2.4. Post temporary "exit" directional signs as required where alternative exits have been provided or where existing exits have been removed. 2.5. Verify and implement requirements of local fire and building inspection authorities with regards to "fire safety plan". 2.6. Maintain access to the existing building as required by emergency and firefighting authorities.

3. Fire and intruder alarms

- 3.1. Protect and maintain existing fire detection devices and intruder detection devices throughout new construction areas. Connect into existing building fire and intruder detection system network.

4. Noise control

- 4.1. Refer to owner's general requirements. 4.2. Perform cutting, drilling and hammering operations with least amount of noise and disturbance to owner and operation of premises. 4.3. Locate high level noise machinery away from portions of building occupied and used by owner. 4.4. Keep extremely noisy construction operations to a minimum or arrange at time with owner

5. Disruption of services

- 5.1. Refer to owner's general requirements. 5.2. Do not disrupt or limit existing services without prior agreement where existing portions of project remain occupied and in use by owner during work. 5.3. Where work requires breaking into or connection with such activities services perform work at time arranged and agreed with owner in writing 7 working days before commencement of such portion of work. 5.4. Where work cannot be arranged during normal trade hours perform work outside of normal trade hours at no additional cost to owner.

6. Matching to existing work

- 6.1. Make new work in new areas, new work in existing areas, and all alteration work match in every respect similar items in existing building. 6.2. Use new materials, fixtures and equipment to match existing items. Where perfect matches cannot be made as to quality, texture, color, or pattern, remove existing materials and replace with new materials of comparable quality selected by consultant. 6.3. Execute work carefully wherever existing work is being reused. Make repairs to such reused items after reinstallation to properly restore them. Where proper restoration is impractical, such items will be rejected and replaced. 6.4. After removal of reusable items, carefully patch and repair original location. 6.5. Wherever existing work is being altered to make way for new work, perform such cutting and patching neatly and make finished installations equal to quality and appearance. 6.6. Where new work is a continuation or an extension of existing work, take care to meld the two with complete regard to appearance. Where possible make joints in concealed or "less obvious" places. 6.7. Wherever part of a wall is altered or affected by the work, paint entire wall at completion of work. Wherever two or more walls are affected, paint entire room.

7. Making good

- 7.1. Include cost of making good all work disturbed by removal of existing work, fixtures, fittings, or by installation of new or removal of old mechanical and electrical services. 7.2. Make good surfaces to match adjacent existing surfaces, unless otherwise indicated.

01 40 00 QUALITY CONTROL

1. Inspection and testing

- 1.1. Inspection and testing is required and described under various sections. Refer to **G.C.2.3, REVIEW AND INSPECTION OF THE WORK**, for governing requirements and any additional testing requirements. 1.2. Owner will pay costs for all inspection and testing, unless noted otherwise. 1.3. Provide minimum 48 hours notice.

2. Access

- 2.1. Cooperate to provide reasonable facilities for access required under **G.C. 2.3.1**. 2.2. Procedures 2.3.1. Provide samples and materials required by inspection/testing agency for testing purposes. Submit with reasonable promptness and in orderly sequence so as not to delay work. 2.3.2. Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

3. Defective work

- 4.1. Refer to **G.C. 2.4, DEFECTIVE WORK** for procedures.

5. Reports

- 5.1. Refer to **G.C. 2.3.3** for procedures.

6. Equipment/system reports

- 6.1. Submit adjustment and balancing reports for mechanical and electrical systems. Refer to mechanical and electrical divisions for specific requirements.

01 80 00 TEMPORARY FACILITIES AND CONTROLS

1. Installation/removal

- 1.1. Provide construction facilities and temporary controls in order to execute Work expeditiously. 1.2. Remove from site all such work after use.

2. Hoarding

- 2.1. Provide hoarding in accordance with Appendix B - Infection Control and Dust Containment Guidelines: 2.2. Exhaust air in the construction zone directly outside. 2.3. Maintain and relocate protection until such work is complete. 2.4. Temporary metal stud wall (per Appendix B - Infection Control and Dust Containment Requirements): 2.4.1. Provide temporary metal stud wall around construction area per drawings. 2.4.2. Provide 0.88mm (20 ga.) C-shape metal stud wall 92mm wide with 32mm flange at 400mm min o.c. complete with corresponding top and bottom track of the same size and gauge. 2.4.3. Provide 5/8" drywall on outside of metal stud. Drywall to be installed on the outside of construction area. Tape all joints between drywalls. 2.4.4. Provide 6mil poly on inside of the metal stud. Tape all edges (top, bottom, sides and overlaps) of poly to form one continuous surface. 2.4.5. Temporary metal stud wall to conform to Section 0922 16 Non Structural Metal Framing. 2.4.6. Provide temporary wood door per drawings with metal frame and door hardware as required. 2.5. Temporary Poly Enclosure: 2.5.1. Provide temporary poly enclosure around construction area per drawings. 2.5.2. Set up poly and tape all joints between drywalls. 2.5.3. Provide minimum 7 high zipper opening per drawings

02 41 00 DEMOLITION

- 1.The demolition permit is included as part of the Building Permit. The Owner will obtain and pay for the Building Permit.
- 2.Do all demolition work according to the requirements of the latest **BC Building Code**, and Worksafe BC, Accident Prevention Regulations, and the Occupational Safety and Health Act.
- 3.Provide one (1) person on site who is responsible for maintaining the safety barriers and protection of the workers and the public. Provide the name of this person to the Owner. Any changes in personnel must also be reported to the Owner.
- 4.The Contractor shall accept the site as it exists and will be responsible for all demolition work as required.
- 5.The Contractor shall visit the site at his own expense prior to the submission of tenders and take whatever time is required to ascertain existing site conditions and surrounding features related to the proposed demolition and new construction work, and ensure himself that conditions are suitable for execution of the work.
- 6.Arrange for a site visit together with Consultant, to examine existing exterior, and adjacent to demolition and new construction work. Take pictures of any existing damage and record same in writing to avoid any disputes at a later date. Photograph all rooms where partial demolition is to occur before work commences in order to provide a record of existing conditions.
- 7.Provide temporary enclosures for securing off of work and the maintenance of any services necessary to the proper and efficient operation of the project.
- 8.Conduct construction operations with minimum interference to existing buildings operations, adjacent buildings, adjacent public or private roads, parking lots, sidewalks and features in general. Keep such areas free of material debris and equipment at all times.
- 9.The Contractor shall provide any hoardings, barricades, warning signs and lights, as necessary, for the protection of all people and property on and adjacent to the site as specified herein by the Workers Compensation Board of British Columbia. The Contractor shall alter, add, maintain, relocate and remove these additional barricades, etc., as necessary due to the work. The Owner and the Contractor shall be saved harmless from any loss, damage, death or injury occurring through neglect, carelessness or incompetence of the Contractor, or the handling or condition of his equipment.
10. Where existing items are removed, "make good" to existing surfaces if they are to remain exposed. "Making Good" shall be defined as preparing new surfaces which are identical to adjacent surfaces (with similar backing materials), and finisher off in such a manner that there are no visible traces (at a distance of 2 feet), between existing work and the work of new patching.
11. Submit to the Consultant
- 11.1. Proposed dust-control measures.
- 11.2. Dates for shut-off, capping, and continuation of utility services.
- 11.3. Phasing and dates for sectional shut-off of sprinkler system serving existing buildings which are to remain.
- 11.4. Inventory of items to be removed and salvaged.
- 11.5. Photos or video, sufficiently detailed, of existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by demolition operations.
- 11.6. Landfill records indicating receipt and acceptance of hazardous waste by a landfill or other facility authorized to accept hazardous wastes.
12. Stop work around an area where existing previously classified hazardous material is discovered, including materials suspected of containing asbestos, and immediately contact the Project Manager for direction before continuing with the work affected.
13. No temporary stockpiling of demolished materials permitted on site. All demolition materials from excavations must be removed from site daily. Dispose of materials in a legal manner.
14. Contractor to keep the premises clean and free from rubbish, debris, surplus materials and equipment. At the end of each days work, leave work in safe condition so that no parts are in danger of toppling or falling.

06 40 00 ARCHITECTURAL WOODWORK

- 1.Reference: Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
- 2.Submit shop drawings and hardware cut sheets in accordance with Section 013300. Indicate locations of all typical and special installation conditions, all connections, attachments, anchorage and locations of exposed fastenings.
- 3.Submit full range HPDL colour charts for Consultants colour selection use.
- 4.The Trade Contractor shall furnish a two (2) year maintenance bond, to the full value of the architectural woodwork subcontract, certifying that the architectural woodwork has been manufactured and/or installed in accordance with the standards incorporated in the AWMAC Manual.
- 5.If the Trade Contractor is an AWMAC member in good standing, a two (2) year AWMAC Guarantee Certificate will be issued instead of the maintenance bond.
- 6.The maintenance bond/guarantee certificate shall cover replacing, reworking and/or refinishing to make good any defects in architectural woodwork due to faulty workmanship or defective materials supplied by the Trade Contractor that appear during a two (2) year period following the date of Substantial Completion of the architectural woodwork contract.
7. Casework: HPDL
- 7.1. AVS quality grade : Custom
- 7.2. Core : formaldehyde free minimum 769 kg/m3 density MDF to ANSI A208.2 and AWMAC requirements.
- 7.3. Finish : **See Finishes Schedule on Dwg A5.03**
- 7.3.1. Countertops : Horizontal Grain Veneer Standard Grade (HGS)
- 7.3.2. Vertical surfaces : Vertical Grain Veneer Standard Grade (VGS)
- 7.3.3. Semi-exposed parts : Face Veneer : Cabinet Liner Standard Grade (CLS)
- 7.3.4. Backing Sheet Grade (BK)
- 7.4. Approved product : **See Finishes Schedule on Dwg A5.03**

07 84 00 FIRE AND SMOKE SEALS

- 1.Fire stopping and smoke seal systems: in accordance with CANULC-S115 "Fire Tests of Firestop Systems".
- 1.1. Use materials free of asbestos and ceramic fibres. Use systems capable of maintaining effective barrier against flame, smoke and gases in compliance with requirements of CANULC-S115 and not to exceed opening sizes for which they are intended.
- 1.2. Fire stop system rating: to respective wall or floor rating.
2. Service penetration assemblies: certified by UL in accordance with CANULC-S115 and listed in ULC Guide No. 40 U19.
- 3.Fire stop components: certified by UL in accordance with CANULC-S115 and listed in ULC Guide No. 40 U19.13 and ULC Guide No. 40 U19.15 under Label Service of ULC.
- 4.Fire-resistance rating of installed fire stopping assembly not less than fire-resistance rating of surrounding floor and wall assembly.
- 5.Fire stopping and smoke seals at openings around penetrations for pipes, ductwork and other mechanical items requiring sound and vibration control: elastomeric seal; do not use cementitious or rigid seal at such locations.
- 6.Firestopping and smoke seals at building expansion and seismic control joints: pre-formed, semi-rigid non-combustible mineral wool material.
- 6.1. Approved product: A/D Firebarrier by A/D Fire Protection.
- 7.Sealant: to CAN4-S115-M, primerless single component silicone sealant.
- 7.1. Approved product: A/D Firebarrier Silicone by A/D Fire Protection.
- 8.Primer: to manufacturers' recommendation for specific material, substrate and end use.
- 9.Water (if applicable): potable, clean and free from injurious amounts of deleterious substances.
10. Daming and back-up materials, supports and anchoring devices: to manufacturers' recommendations and in accordance with tested assembly being installed as acceptable to authorities having jurisdiction.
11. Sealants for vertical joints: non-sagging.
12. Installations of fire and smoke protection shall be by experienced installers familiar with ULC systems and approved by the manufacturer.
13. Economize sizes and quantities of materials to be installed to establish correct thicknesses and installation of materials. Ensure that substrates and surfaces are clean, dry and frost free.
14. Prepare surfaces in contact with fire stopping materials and smoke seals to manufacturers' instructions.
15. Install fire stopping and smoke seal material and components in accordance with ULC certification and manufacturers' instructions.
16. Seal holes and voids made through penetrations, poke-through termination devices, through openings and joints to ensure continuity and integrity of fire separation are maintained.
17. Listing and Test Reports: Submit copies of current ULC listed Firestop System for each system and certified copies of test reports verifying that air, fire, firestopping and smoke seals meet or exceed specified requirements.
18. Post service penetrations and future use openings/leaves with permanent signs:
- 18.1. Identifying locations as firestops/smoke seals,
- 18.2. listing material installed including local distributor,
- 18.3. detailing procedures for proper re-sealing of disturbed material and
- 18.4. warning against painting of installed material.
19. Notify Owner when ready for inspection and prior to concealing or enclosing fire stopping materials and service penetration assemblies.
20. Arrange for inspection by the Owner's independent inspection and testing agency, appointed and paid for by the Owner.
21. Following field inspections provide all repairs as required to comply with the Contract Documents.

07 92 00 JOINT SEALANTS

- 1.Section includes: joint sealants, joint backer materials and accessories needed to ensure a complete and durable weather and/or tight seal at all locations indicated.
- 2.Perform work in accordance with ASTM C 1193 guidelines except where more stringent requirements are indicated or specified.
- 3.Provide joints properly dimensioned to receive the approved sealant system.
- 4.Provide joint surfaces that are clean, dry, sound and free of voids, deformations, protrusions and contaminants which may inhibit application or performance of the joint sealant.
- 5.Deliver to the Architect signed copies of the following written warranties against leakage, cracking, crumbling, chalking, shrinkage, loss of adhesion, and/or staining of adjacent surfaces for a period of 3 years from date of completion.
- 5.1. Manufacturer's standard warranty covering sealant materials;
- 5.2. Applicators standard warranty covering workmanship.
- 6.Provide colors selected by Architect from manufacturers' standard color range.
- 7.Primer: Type to be recommended by sealant manufacturer
- 8.For concealed partition sealant : CAN/CGSB 19.21 M87 Single-component, non-hardened synthetic rubber sealant - Tremco Tremflex 834 or approved alternative
- 9.For general purpose interior and exterior caulking on vinyl, aluminum and wood siding as well as on bathroom and kitchen fixtures : CAN/CGSB 19-CP-17M Acrylic latex sealant - Tremco Tremflex 834 or approved alternative
10. For interior watertight seal to glass, metal, porcelain, ceramic and painted substrates : CAN/CGSB-19.2-M87 Single component silicone - Tremco Tremflex 100 or approved alternative
11. Joint cleaner : Non-corrrosive type recommended by sealant manufacturer compatible with joint-forming materials
12. Bond breaker : Polyethylene tape or other adhesive faced tape as recommended by sealant manufacturer to prevent sealant contact where it would be detrimental to sealant performance.
13. Joint backer: Closed cell or soft rod Polyethylene foam rod or other compatible, non-welding, non-extruding, non-staining resilient material in dimension 25 percent to 50 percent wider than width as recommended by sealant manufacturer for conditions and exposures indicated.
14. Masking tape: Non-staining, non-absorbent tape product compatible with joint sealants and adjacent joint surfaces that is suitable for masking.
15. Remove all traces of previous sealant and joint backer by mechanical methods, such as by cutting, grinding and wire brushing, in manner not damaging to surrounding surfaces.
16. Remove paints from joint surfaces except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer.
17. Remove wax, oil, grease, dirt film residues, temporary protective coatings and sealant residue by wiping with cleaner recommended for that purpose. Use clean, white, lint-free cloths and change cloths frequently.
18. Provide joint backer material uniformly to depth required by sealant manufacturer for proper joint design using a blunt instrument.
19. Provide bond-breaker where indicated or recommended by sealant manufacturer, adhering strictly to the manufacturers installation requirements.
20. Prime joint substrates where required.
21. Use masking tape where required to prevent sealant or primer contact with adjoining surfaces that would be permanently stained or otherwise damaged by such contact or the cleaning methods required for removal.
22. Install sealants to fill joints completely from the back, without voids or entrapped air, using proven techniques, proper nozzles and sufficient force that result in sealants directly contacting and fully wetting joint surfaces.
23. Install sealants to uniform cross-sectional shapes with depths relative to joint widths that allow optimum sealant movement capability as recommended by sealant manufacturer.
24. Tool sealants in manner that forces sealant against back of joint, ensure firm, full contact at joint interfaces and leaves a finish that is smooth, uniform and free of ridges, wrinkles, sags, air pockets and embedded impurities.
25. Remove sealant from adjacent surfaces in accord with sealant and substrate manufacturer recommendations as work progresses.
- 6.10 00 HOLLOW METAL DOORS AND FRAMES
- 1.Reference Documents: Specifications for Commercial Steel Doors and Frames and Canadian Fire Labeling Guide by the Canadian Steel Door and Frame Manufacturers Association (CSDFMA)
- 2.NFPA 80, Standard for Fire Doors and Fire Windows.
- 3.Fire rated doors and frames: labelled and listed by an organization accredited by Standards Council of Canada in compliance with CAN4-S104M and ULC4-S104M for ratings indicated.
- 4.Steel: Commercial grade steel to ASTM A568-91, Class 1, hot dipped galvanized to ASTM A527-80, coating designation to ASTM A525-81, Z275.
- 4.1. Thickness for steel components shall be in accordance with the CSDFMA specification Table 1 - Thickness of Steel for Component Parts unless otherwise specified.
- 4.2. Door frames: 16 ga.
- 4.3. Door stiles and rails: 16 ga
- 4.4. Door panel: 18 ga
- 4.5. Door bumpers: Block rubber/neoprene single stud
- 5.Fabricate frames as detailed, in accordance with Canadian Steel Door and Frame Manufacturers Association, "Specifications for Commercial Steel Doors and Frames".
- 6.Mortise, reinforce, drill and tap frames for mortised hardware. Reinforce frames for surface mounted hardware.
- 7.Welding shall conform to CSA W59, Out miters and joints accurately and weld continuously on inside of frame profile.
- 8.Welded corners and joints to flat hardener, flat panel, fill with metallic paste filler and sand to uniform smooth finish. Weld in two temporary jamb spreaders per frame to maintain proper alignment.
10. Shop prime after fabrication:
11. Touch-up primer: to CGSB 19-CP-191 zinc rich.
12. Install in accordance with NFPA 80.
- 06 14 00 WOOD DOORS
- 1.Supply of rated and non-rated flush solid core wood doors per drawings
- 2.Reference :
- 2.1. ANSI A135.4 - Basic Hardboard.
- 2.2. Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
- 3.Submittal :
- 3.1. Product Data: indicate door core materials and construction; veneer species, types and characteristics.
- 3.2. Shop Drawings: Illustrate door opening criteria, elevations, sizes, types, swings, undercuts required, special blocking for hardware, identify cutouts for glazing and louvers.
- 3.3. Samples: Prepare and submit a set of two (2) samples of door with finish 150 x 150 minimum
- 4.Perform work in accordance with AWMAC, Premium Grade.
- 5.Finish doors in accordance with AWMAC, Custom Grade.
- 6.Finish doors protective wrapping for pre-finished doors during transit and storage
- 7.Store all doors in a dry place; free from extremes of temperature; properly stacked and protected.
- 8.Wood doors shall carry manufacturers' Lifetime Guarantee provided from date of Substantial Performance against deformation, bow, cup, warp in surfaces.
- 9.Interior solid core wood doors :
- 9.1. Solid core : CAN/CSA-01392.1: Agrifibre core, no added urea formaldehyde veneer (green screen), flush or flat panel
- 9.2. Face: Beech (Rotary Cut) Vertical Grain Veneer
- 9.3. Edge: to match Face.
- 9.4. Thickness: 45mm thick door thickness
- 9.5. Frame: Pressed Steel, shop primed, painted - See Section 08 10 00 Hollow Metal Doors and Frames
- 9.6. Blocking: Minimum 125 mm x 460 mm solid wood with lock blocking at both stiles.
- 9.7. Adhesive: Low VOC, Type I PVA waterproof adhesive
10. Finishes: **See Door Schedule**
11. Machine cut for hardware.
12. Coordinate installation of doors with installation of frames specified in Section 08 10 00 Hollow Metal Doors and Frames and hardware specified in Section 08 70 00 Door Hardware.
13. Install door plumb and level.
14. Adjust door for smooth and balanced door movement.
15. Adjust closer for full closure.
- 08 51 13 ALUMINUM WINDOWS (NOT APPLICABLE)
- 1.Section includes:
- 1.1. Exterior aluminum windows, thermally broken.
- 1.2. **Aluminum flashing sill and closure plate as detailed.**

- 1.3. Related deflection header components.
- 16.7. All necessary reinforcing members, anchors, screws, bolts, etc. for installation.
- 2.Conform to the following:
- 2.1. DAF 45 (2003), Designation System For Aluminum Finishes
- 2.2. AAMA-2603-(2002), Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
- 2.3. AAMA-2604-(2005), Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels
- 2.4. AAMA-2605-(2005), Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
- 2.5. AAMA CW-10-(2004), Care and Healing of Architectural Aluminum from Pests to Site
- 2.6. ASTM B209-(07), Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- 2.7. ASTM B221-(08), Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
- 2.8. ASTM D2240-(05), Standard Test Method for Rubber Property-Durometer Hardness
- 2.9. CAN/CGSB-12.8-(07), Insulating Glass Units
- 2.10. CAN/CGSB-12.20-(M89), Structural Design of Glass for Buildings
- 2.11. CAN/CGSB-19.13-(M87), Sealing Compound, One-Component, Elastomeric, Chemical Cure
- 2.12. CAN/CSA-S157-(2005), Strength Design in Aluminum
- 2.13. CAN/CSA W59-2-(M1991, R2003), Welded Aluminum Construction
- 2.14. NAFS-AAMA/WDMA/CSA 1011.S.2/A440-08
- 2.15. CDD-45-(1998), Sealants and Caulking Compounds
- 2.16. ASTM D7110.1 (2005), Standard for Thermal Insulation - Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials Standard for Thermal Insulating - Bead - Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials
- 3.Make Submittals in accordance with Submittal Procedures 01 33 00
- 4.Submit product data including manufacturers literature for aluminum window frames, glazing, components and accessories, indicating compliance with specified requirements and material characteristics.
- 4.1. Submit list on window manufacturers' letterhead of materials, components and accessories to be incorporated into work.
- 4.2. Include product names, types and series numbers.
- 4.3. Include contact information for manufacturers and their representative for this project.
- 5.Shop Drawings: Submit drawings stamped and signed by Professional Engineer registered or licensed in British Columbia, Canada.
- 5.1. Indicate materials and details for head, jamb and sill, profiles of components, interior and exterior trim, junction between combination units, elevation unit, anchorage details, description of related components and exposed finishes, fasteners, and caulking.
- 5.2. Indicate location of manufacturer's nameplates.
- 6.Samples:
- 6.1. Submit duplicate 300 x 300mm sample sections showing prefinished aluminum surface, finish, colour and texture, and including frame corner details.
- 6.2. Submit duplicate 300 x 300mm sample sections of insulating glass unit showing glazing materials and detail corner details.
- 7.Thermal Performance: Submit verification that Insulating Glass Units used to meet (US) centre of glass values specified.
- 8.Test Reports:
- 8.1. Submit test reports showing compliance with specified performance characteristics and physical properties including air and water infiltration.
- 8.2. Field Reports: Submit manufacturers field reports within 3 days of manufacturer representative's site visit and inspection.
9. Installer Qualifications:
- 9.1. Submit letter verifying installer's experience with work similar to work of this Section.
10. Closeout Submittals:
- 10.1. Operation and Maintenance Data: Supply maintenance data for window for incorporation into manual specified in Section 01 77 00 - Closeout Procedures.
- 10.2. Record Documentation: In accordance with Section 01 77 00 - Closeout Procedures:
- 10.2.1. List materials used in windows work.
- 10.2.2. Warranty: Submit warranty documents specified.
11. Delivery, Storage and Handling:
- 11.1. Deliver, store and handle products in accordance with manufacturers printed instructions and AAMA CW-10.
- 11.2. Protection: Apply temporary protective coating to finished surfaces. Remove coating after installation. Do not use coatings that will become hard to remove or leave residue.
12. Warranty:
- 12.1. Manufacturer's standard form in which manufacturer agrees: To repair or replace systems that fail in materials, workmanship, or installation, within (2) years from date of Substantial Performance. Failure includes, but is not limited to the following:
- 12.1.1. Structural failures including, but not limited to, excessive deflection.
- 12.1.2. Adhesive or cohesive sealant failures.
- 12.1.3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- 12.1.4. Failure of operating components to function normally.
- 12.1.5. Water leakage through fixed glazing and frame areas.
- 12.1.6. Mist on inside sealed units.
13. Product: **Thermally broken, rain screened, aluminum framed, windows with double glazed insulating glass units and flush front design.**
- 13.1. Acceptable Products :
- a. **Aluminum Reinforced 1900 (Fixed) and Univent 1350 (Operable - Project-Out)**
- b. **US Aluminum: 7200 Series (Fixed and Operable - Project-Out)**
- c. **Keweenaw: 516 Thermal Window (Fixed) and 526 Thermal Window (Operable - Project-Out)**
14. Design Criteria:
- 14.1. Design aluminum components to CAN/CSA S157.
- 14.2. Window Classification: To NAFS - AAMA/WDMA/CSA 1011.S.2/A440-08
- 14.2.1. Air tightness: **FW-CW - Canadian Level: Fixed**
- 14.2.2. Water tightness: **FW-CW100 - Canadian Level: B7**
- 14.2.3. Wind load resistance: **FW-CW70 - Canadian Level: C4**
- 14.2.4. Forced entry resistance test: **Grade 10**
15. Window Materials:
- 15.1. Main Frame and glass stops: Extruded aluminum: To ASTM B221, 6063 alloy with T5 or T6 temper.
- 15.1.1. Main frame depth: **108mm**
- 15.1.2. Interior color: **Clear anodized**
- 15.1.3. Exterior color: **Clear anodized**
- 15.1.4. Insulating glass units: in accordance with Section 08 80 50 - Glazing
16. Window fabrication:
- 16.1. Fabricate windows to CAN/CSA a440/A440.1 and manufacturers' instructions.
- 16.1.1. Do glazing in accordance with Section 08 80 00 - Glass and Glazing. Ensure proper installation of prime seal gasket whether shop or field glazed.
- 16.2. Fabricate aluminum assemblies of extruded sections to sizes and profiles indicated.
- 16.2.1. Ensure vertical and horizontal members are tubular extrusions designed for shear block and/or screw spline corner construction.
- 16.2.2. Provide drainage path from glazing cavity in accordance with rain-screen practices and manufacturers' instructions to permit drainage of extraneous water to the exterior.
- 16.3. Construct units square, plumb and free from distortion, waves, twists, buckles or other defects detrimental to performance or appearance.
- 16.3.1. Brace frames to maintain squareness and rigidity during installation.
- 16.4. Fabricate units square and true with tolerance of plus or minus 1.5mm maximum for units with diagonal measurement of 1800mm maximum and plus or minus 3mm maximum for units with diagonal measurement greater than 1800mm.
- 16.5. Accurately fit and secure joints and corners.
- 16.5.1. Ensure joints are flush, hairline, and weatherproof.
- 16.5.2. Seal joints and corners in accordance with manufacturers' instructions.

- 16.6. Face dimensions detailed are maximum permissible sizes.
- 4.Deliver and store materials undamaged and where applicable in their original wrappings or containers with manufacturers labels and seals intact. Store materials on a dry floor in a weatherproof enclosure.
- 6.Glass
- 5.1. Thickness of Glass: Conform to **BC Building Code** wind load requirements where applicable and according to maximum glass sizes but no less than firmest available glass.
- 5.2. For sizes and locations of all lights, refer to the drawings and schedules. Thicknesses indicated and specified are minimum only, thicker glass may be required to meet structural requirements.
- 5.3. Glass shall be one of the following types, as designated on the drawings or as further described:
- 5.3.1. Laded Glass - See Section 13 09 00 Radiation Protection
- 6.Sealant Compounds : CAN/CGSB-19.13-M87 Single component silicone - See Section 07 92 00 Joint Sealants
- 7.Fabricate glazing to sizes and locations as shown on the drawings in accordance with reviewed shop drawings.
- 8.Take site measurements prior to shop fabrication.
- 9.Material for protecting markings on glass, such as adhesives for the manufacturers labels, shall be either neutral or slightly acidic. In no case shall such materials be alkaline. Any staining of glass or other surfaces by such alkaline materials will be cause for rejection.
10. Leave no manufacturers labels or grade marks on glass except as required by code for safety glass identification.
11. Adjust and Clean
- All materials shall be protected during and after installation.
- 09 20 00 GYPSUM SHEATHING BOARD
1. Work of this section shall conform to the Association of Wall and Ceiling Contractors of BC (AWCC) Specifications Standards Manual.
2. Corner and casing beads shall be shipped in rigid containers and protected from damage and dampness.
3. Store wallboard flat, off the floor, protected from damage by dampness, weather or construction activities. Cementitious materials shall be kept dry and away from damp places. Distribute as required to avoid exceeding live load capacity of the floor.
4. Providing blocking as required for all attached fixtures and millwork.
5. Refer to drawings and wall schedule for extent of each type of gypsum board product and thickness.
6. Gypsum board products, materials and accessories shall conform to AWCC Section 9.6, Part 2
7. Products:
- 7.1. Gypsum Wallboard: Conforming to CAN/CSA-A82-27-M1977 non-combustible gypsum core with dimensions 1219mm x max. practical length for min. joints.
- 7.2. Fire-Rated Gypsum Wallboard: Conforming to CAN/CSA-A82-27-M91, Type "X" having ULC lab fire resistance rating; dimensions 1219mm x max. practical length to minimize joints.
- 7.3. Moisture Resistant Gypsum Wallboard: Conforming to CAN/CSA-A82-27-M91; specially formulated core to resist moisture penetration, covered with face and back papers chemically treated to resist moisture penetration. Dimensions 1219mm x max. practical length for min. joints. Type "X" having a ULC label for fire resistance rating.
8. Gypsum Board Screws: Conforming to ASTM C646, self-drilling, self-threading case hardened screws with Phillips type head (bugle head) (stainless steel screws to be utilized for fixing wet area). On steel studs and framing, drywall screws shall be installed in accordance with the following:
9. Gypsum Board Tape to be 50 mm (2") paper joint tape, of a type recommended by manufacturer of gypsum board products.
10. Gypsum Board Jointing Compound: Casein, vinyl or latex base; slow setting; low shrinkage; noncombustible bedding and finishing compounds of type recommended by manufacturer of gypsum board.
11. Corner Beads: Min. 0.45mm (26 ga.) galvanized sheet steel; square bead with perforated flanges. Use extended leg bead at external corners at double board application.
12. Casing Beads: Min. 0.45mm (26 ga.) galvanized sheet steel; square bead with perforated flanges. Only filable type J or L beads are acceptable. Thickness to suit gypsum board.
13. Install gypsum wallboard and accessories in accordance with AWCC Specifications Standards Manual.
14. Provide ventilation to dry gypsum drywall fillers properly.
15. Do not locate joints on same stud on opposite sides of partitions. Stagger joints occurring on same side of partition.
16. Allow deflection spaces between drywall partitions and building structural framing components to allow for movement of framing components.
17. Box-in electrical, telephone and TV outlets in fire-rated and party walls with drywall, typically.
18. Increase if necessary, depth and width of all furring, bulkheads, chases, etc. to contain and conceal electrical and heating wires, rainwater leaders, plumbing waste, hot and cold water supplies and provide gypsum board concealment to all pipes in visually exposed heated spaces. Check mechanical, plumbing and electrical drawings for extent of piping and conduits.
19. Finish gypsum wallboard in accordance with AWCC Specifications Standards Manual.
- 09 22 16 NON STRUCTURAL METAL FRAMING
1. Work Included
- 1.1. Metal support systems for wall, furring and ceiling.
- 1.2. Concealed backing for wall hung millwork and equipment.
2. Work of this section shall conform to the Association of Wall & Ceiling Contractors of B.C. (AWCC) Specifications Standards Manual (latest Edition).
3. Design responsibility
- 3.1. All steel stud partitions to be designed to accommodate building structure deflection of 1/360 and seismic restraints to meet all applicable code.
- 3.2. Provide seismic restraints for all suspended ceiling framing.
- 3.3. Submit confirmation signed and sealed by a structural engineer registered in British Columbia that all of the above requirements have been met.
- 3.4. The structural engineer responsible for the design shall provide letters of assurance Schedule B and C-B.
4. Submit Shop Drawings as required.
- 4.1. All components used in fire rated assemblies shall be in accordance with the applicable ULC, Warnock Hersey, or BC Building Code referenced assembly.
6. Refer to drawings and wall schedule for size and type of metal framing
7. Interior Non-Load Bearing Steel Stud, Track, and Furring :
- 7.1. Conform to CAN/CGSB-7.1-M86.
- 7.2. Gauge to be minimum 0.8 mm (20 ga.) C shape with knurled faces on flanges or legs, and knock-out pass through holes in web.
- 7.3. Provide 16 ga double studs on both sides of door and window jambs. Anchor studs to structural floor and to structural ceiling above.
- 7.4. Hot dipped galvanized steel studs with Z180 (80%) zinc coating to ASTM A525-86, roll formed from ASTM A446/A446M-85, Grade A steel.
- 7.5. The minimum stud spacing at all locations should be no case more than 400mm o.c. or as otherwise required by sheeting manufacturer.
- 7.6. Provide stud width per wall schedule. Flange depth to be minimum 32mm. Use extended leg for top track, if required, to accommodate deflection.
- 7.7. To sealing allowed.
8. Ceiling Framing Materials
- 8.1. The Wire to be 1.62mm (16 ga) galvanized steel
- 8.2. Hangers to be 3.6mm (9 ga) galvanized soft annealed steel wire (up to 1.5 sq.m.) or 4.8 mm diameter zinc coated or cadmium plated steel rod (up to 1.48 sq.m.) m secured to structural slab with corrosion-resistant anchors
- 8.3. Main furring channels to be minimum 38mm x 12.7 mm x 1.37mm cold formed channels with hot dip galvanized zinc coating spaced as required.
- 8.4. Cross furring to be hot dipped galvanized steel hat section, 68.2mm overall width x 22.2mm deep x 0.53mm thick
9. Metal Backing Plates to be 0.91mm (20 ga) hot cold dipped galvanized steel
10. Fasteners and accessories to be of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates, to suit structural conditions, and to fixing manufacturer's operation and installation instructions.
11. Screws: Lengths as required to suit applications, self tapping corrosion resistant drywall screws.
12. Acoustic Gasket or Tape: Self-adhesive foam tape 6 mm x 25 mm closed formed channels with hot dip galvanized zinc coating spaced as required.
13. Acoustic Caulking: Synthetic rubber acoustic sealed meeting CAN/CGSB 19.21-M87.
14. Unless noted otherwise all partitions shall be full height from floor to underside of structural slab.
15. Install floor and ceiling track seated on two continuous beads of acoustic sealant. Ensure continuity for entire perimeter of acoustically-rated wall assemblies. Fasten securely to concrete at maximum 600 mm o.c. using approved concrete fasteners.
16. Provide minimum 2 studs from floor to structural slab above on each side of door and window opening.
- 09 80 00 GLASS AND GLAZING
- 1.Meet CGSB standards for float, tempered and laminated units. Type, thickness to conform to B.C. Building Code most current edition.
2. Glazing Standards: FGMA Glazing Manual and Sealant Manual
- 3.Submit two (2) samples, each 150mm x 150mm, of the following to the Consultant for approval.

3.1. each type of glass

- 4.Deliver and store materials undamaged and where applicable in their original wrappings or containers with manufacturers labels and seals intact. Store materials on a dry floor in a weatherproof enclosure.
- 6.Glass
- 5.1. Thickness of Glass: Conform to **BC Building Code** wind load requirements where applicable and according to maximum glass sizes but no less than firmest available glass.
- 5.2. For sizes and locations of all lights, refer to the drawings and schedules. Thicknesses indicated and specified are minimum only, thicker glass may be required to meet structural requirements.
- 5.3. Glass shall be one of the following types, as designated on the drawings or as further described:
- 5.3.1. Laded Glass - See Section 13 09 00 Radiation Protection
- 6.Sealant Compounds : CAN/CGSB-19.13-M87 Single component silicone - See Section 07 92 00 Joint Sealants
- 7.Fabricate glazing to sizes and locations as shown on the drawings in accordance with reviewed shop drawings.
- 8.Take site measurements prior to shop fabrication.
- 9.Material for protecting markings on glass, such as adhesives for the manufacturers labels, shall be either neutral or slightly acidic. In no case shall such materials be alkaline. Any staining of glass or other surfaces by such alkaline materials will be cause for rejection.
10. Leave no manufacturers labels or grade marks on glass except as required by code for safety glass identification.
11. Adjust and Clean
- All materials shall be protected during and after installation.

17. Install channel stiffener above door heads. Stiffener to run to closest stud adjacent to boxed channel stiffener.
18. Install continuous channel stiffener at mid-point of all stud partitions not exceeding 3.60 meters in height and at third (1/3) points for all partitions exceeding 3.6 meters in height.
19. Install all backing for electrical, all rough openings for building in washroom accessories, mirrors, and other items, and all interior and exterior components supplied and installed by others, or supplied and installed under this section. Coordinate with other Sections to provide for washroom accessories. Blocking to be 1.2 mm (18 ga) sheet metal strips 300 mm (12 inches) wide and positioned to allow for sufficient installation tolerance of accessories.
20. Promises as work proceeds and at completion, clean up and remove from premises all rubbish and surplus materials resulting from work of this section.

09 81 00 ACOUSTIC CEILING PANELS AND SUSPENSION SYSTEM

1. Conform to the following
- 1.1. ASTM C635-04 Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
- 1.2. ASTM C636-04 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels
- 1.3. ASTM E580-02e1 Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.
- 1.4. CANULCS102, Surface Burning Characteristics of Building Materials
2. Design seismic anchorage connections in accordance with BOCB (Section 4.1.9 including Table 4.1.9.1.4 - Architectural Parts and Portions of Buildings), Maximum deflection: 1/360th of span to ASTM C635 deflection test.
- 2.1. Provide seismic restraints for all suspended ceiling.
- 2.2. Submit confirmation signed and sealed by a structural engineer registered in British Columbia that all of the above requirements have been met.
- 2.3. The structural engineer responsible for the design shall provide letters of assurance Schedule B and C-B.
3. Store materials in work area 48 hours prior to installation.
4. Provide 5% additional acoustical panels of each type for project maintenance use.
5. Submit samples in accordance with 01 33 00.
6. Suspension System
- 6.2. Intermediate duty system to ASTM C635
- 6.3. Basic materials for suspension system : commercial quality cold rolled steel zinc coated, **except for MRI Exam Room, use a non-ferrous suspension system only.**
- 6.4. Hangers : 2.5mm dia galvanized, 760 degree C melting temperature soft annealed wire, **except for MRI Exam Room, use stainless steel size only.**
- 6.5. Hanger inserts : purpose-made to provide positive hanger retention and support of suspension system.
- 6.6. Exposed suspension system : 2-directional exposed tee bar grid with decorative jambs and corner reflectors, and access panels with rectangular bulb and 15/16" width rolled cap to exposed face, cross tee lower flange offset to provide flush intersection with main tee lower flange. Typical suspension colour : **White**
- 6.7. Accessories : applies, wire ties required to complement respective suspension system and as recommended by system manufacturer.
- 6.8. Angle mould : 7/8" x 7/8" angle mould profile, finish to match suspension system.
- 6.9. Approved product : **See Finishes Specification on Dwg A5.03**
7. Acoustical Panels (General):
- 7.1. Type : lay-in exposed grid
- 7.2. Material : non-combustible mineral fibre
- 7.3. Surface Finish : factory vinyl latex paint
- 7.4. Color : **White**
- 7.5. Light Reflectance : LR-80
- 7.6. Size : General - 24" x 24", 7/8" thick **(See plan)**
- 7.7. Edges : **Square**
- 7.8. NRC Rating : General - 0.80
- 7.9. CAC Rating : General - 35
- 7.10. Fire Hazard : Class 1
- 7.11. Approved Product : **See Finish Specification on Dwg A5.03**
8. Acoustical Panels (MRI): **(NOT APPLICABLE)**
- 8.1. Type : lay-in exposed grid
- 8.2. Material : non-combustible mineral fibre
- 8.3. Surface Finish : factory vinyl latex paint
- 8.4. Color : **factory white finish**
- 8.5. Light Reflectance : LR-90
- 8.6. Size : 24" x 24" x 1 1/2" thick **square-cut lay-in**
- 8.7. Edges : **Square**
- 8.8. NRC Rating : General - 0.80
- 8.9. AC Rating : **200**
- 8.10. Fire Hazard : 0-25 ASTM E84 test
9. Approved Product : **See Finish Specification on Dwg A5.03**
10. Install suspension assemblies in accordance with system manufacturers' directions, unless stated otherwise.
11. Provide seismic restraint of suspension system in accordance with ASTM E580, 4. Areas Subject to Moderate to Severe Seismic Disturbance.
12. Support light fixtures and diffusers independent of suspension system using dedicated hangers or channels. Do not attach light fixture or diffuser supports within 150mm of each corner and at maximum 600mm around perimeter of each fixture and diffuser. This is in addition to slack restraints specified in Division 15 & 16.
13. Frame openings for light fixtures, air diffusers, and at changes in ceiling heights.
14. Make finished ceiling systems square to adjoining walls and level tolerance ±1000.
15. For MRI Room, suspended ceiling must be statically suspended with no moveable clamps or springs or other similar mechanism. Corrugated rods must be fastened securely and galvanic contact between corrugated rods must be guaranteed or by using wire jumper between rods.

09 85 00 RESILIENT FLOORING

1. References
- 1.1. ASTM F710, Standard Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring.
- 1.2. ASTM F1913, Standard Specification for Sheet Vinyl Floor Covering Without Backing.
- 1.3. ASTM F1516, Standard Practice for Sealing Seams of Resilient Flooring Products by the Heat Weld Method.
- 1.4. ASTM F1869, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
2. Comply with NFPA "Floor Covering Reference Manual" for all product and installation requirements.
3. Submit samples in accordance with Section 01 33 00.
4. Provide flooring maintenance data for incorporation into maintenance Section 01 33 00.
5. Subfloor filler for patching, filling and leveling: pre-mixed filler with Portland cement and polymeric modifiers with minimum compressive strength of 20 MPa at 28 days, type as recommended by flooring manufacturer. Primers and sealers as recommended by flooring manufacturer. Adhesives: solvent-free, low VOC, waterproof type as recommended by flooring manufacturer
6. Heat Welding Rods for Sheet Flooring: as recommended and supplied by flooring manufacturer, solid color and/or patterned rods as selected by the Contractor from manufacturers standard range to match complementary sheet flooring type used.
7. Protective Edging and Reducer Strips: heavy duty tapered pebbled vinyl/rubber floor edge reducer, 1/2" high, 1/2" wide, 1/2" thick, 1/2" wide, 1/2" high finish transitions and to suit condition as recommended by resilient flooring manufacturer with type, style, finish and color to match existing where applicable as selected by the Consultant from manufacturers standard range.
8. Sheet vinyl
- 8.1. Composition: Minimum 50% vinyl compound binder consisting of a blended composition of pigments stabilized against heat and light deterioration. Design, colour and pattern shall extend through the full thickness of the sheet.
- 8.2. Standards: ASTM F1913 Vinyl Sheet Floor Covering Without Backing.
- 8.3. Intended use: Institutional
- 8.4. Thickness: 2 mm
- 8.5. Color: **One (1) color (field) to be selected by Consultant from manufacturer's complete range.**
- 8.6. Approved product: **See Finish Specification on Dwg A5.03**

12. Test existing exposed concrete for moisture using ASTM F 1869, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride test method and provide written results. Moisture emission not to exceed 1 kg/70 m2 in 24 hours.
13. Test existing exposed concrete for alkalinity and neutralize if required in accordance with NFPA recommendations without using acid.
14. Install flooring in accordance with manufacturers' installation instructions.
15. Install edging strips wherever resilient flooring terminates at unlike floor surface, using longest practical lengths at each location.
16. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
17. Remove excess adhesive from floor, base and wall surfaces without damage.

09 65 13 13 RESILIENT WALL BASE (NOT APPLICABLE)

1. References
- 1.1. ASTM F1861, Standard Specification for Resilient Wall Base.
2. Submit samples under provisions of Section 01 33 00
3. Product Data: Manufacturer's data sheets on each product to be used, including:
- 3.1. Preparation instructions and recommendations.
- 3.2. Storage and handling requirements and recommendations.
- 3.3. Installation methods.
- 3.4. Verification Samples: For each finish product specified, two samples, representing actual product and finish.
4. Product shall be delivered to site in manufacturer's original packaging.
5. Product shall be handled and stored to prevent damage to materials.
6. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
7. Install resilient products after other finishing operations, including painting, have been completed.
8. Resilient Wall Base:
- 8.1 Intended use: Office
- 8.2 Thickness: 3.2 mm
- 8.3 Color: 1 color to be selected by Consultant from manufacturer's complete range.
- 8.4 Approved Product: See Finish Specification on Dwg A5.03
- 8.5 Height : See drawings for heights and locations
- 8.6 Base Supports : as recommended by flooring manufacturer, minimum 19mm radius.
9. Do not begin installation until substrates have been properly prepared per manufacturer's instructions.
10. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
11. All adhesives, solvent based materials and other contaminants should be removed and encapsulated prior to application of adhesive and installation of carpet.
12. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
13. Vacuum clean substrates to be covered by resilient products immediately before installation.
14. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained.
15. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
16. Perform the following operations immediately after completing resilient product installation:
- 16.1. Remove adhesive and other blemishes from exposed surfaces.
- 16.2. Damp-mop surfaces to remove marks and soil.
17. Protect installed products until completion of project.
18. Touch-up, repair or replace damaged products before Substantial Completion.
19. Maintenance Materials : At project completion, provide 10% of extra Resilient Wall Base of each type and color for Owner's future maintenance use.

09 68 13 CARPET TILE (NOT APPLICABLE)

1. References:
- 1.1 Carpet and Rug Institute's Carpet Installation Standard.
- 1.2 ASTM F2170 - 19, Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
2. Submit samples under provisions of Section 01 33 00
3. Product Data: Manufacturer's data sheets on each product to be used, including:
- 3.1. Preparation instructions and recommendations.
- 3.2. Storage and handling requirements and recommendations.
- 3.3. Installation methods.
- 3.4. Verification Samples: For each finish product specified, two samples, representing actual product and finish.
4. Product shall be delivered to site in manufacturer's original packaging.
5. Product shall be handled and stored to prevent damage to materials.
6. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
7. Carpet Tile:
- 7.1 Intended use: Office
- 7.2 Thickness: 3.2 mm
- 7.3 Color: Allow three (3) colours to be selected by Consultant from manufacturer's complete range.
- 7.4 Tile Size: 600mm x 600mm & 250mm x 1000mm
- 7.5 Tile Pattern Installation: See Finish Specification on Dwg A5.03
- 7.6 Approved Product: See Finish Specification on Dwg A5.03
8. Do not begin installation until substrates have been properly prepared per manufacturer's instructions.
9. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
10. All adhesives, solvent based materials and other contaminants should be removed and encapsulated prior to application of adhesive and installation of carpet.
11. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
12. All concrete floors must comply with moisture and alkalinity requirements per manufacturer's instructions prior to proceeding with installation. The required pre-installation moisture and alkalinity tests should be performed to ASTM standards.
13. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained.
14. Protect installed products until completion of project.
15. Touch-up, repair or replace damaged products before Substantial Completion.
16. Maintenance Materials : At project completion, provide 10% of extra Carpet Tile for Owner's future maintenance use.
17. Provide flooring maintenance data for incorporation into maintenance manual described in Section 01 33 00.

09 90 00 PAINTING

1. Conform to the standards contained in the Master Painters Institute Architectural Painting Specification Manual, latest edition (hereafter referred to as MPI Painting Specification Manual) for all painting products including preparation and application of materials.
2. Only materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, etc.) listed in the latest edition of the MPI Approved Product List (APL) are acceptable for use on this project.
3. All paint to be premium grade unless otherwise noted.
4. All colors to be selected by Consultant.
5. Allow one (1) interior field colors and two (2) interior accent colors for walls
6. Allow one (1) color for interior ceilings including access hatches , trim and fixtures
7. Allow one (1) color for interior doors and one (1) for frames
8. Submit color samples
9. Prepare 1000mm x 1000mm mock-ups for each color on site for final approval as instructed by architect.
10. For interior gypsum board surfaces :
- 10.1. Surfaces must be clean, screws and nails countersunk and holes filled. Sand joints, then dust clean.
- 10.2. Apply latex primer before painting new surfaces.
- 10.3. For previously painted latex surfaces, no primer required.
- 10.4. Product :
- 10.4.1. Paint : Dulux - Lifemaster
- 10.4.2. Primer : As recommended by Manufacturer
- 10.4.3. Sheen : See Finish Specification on Dwg A5.03
11. For interior galvanized metal :
- 11.1. Clean with metal conditioner to assure better adhesion of the paints.

- 11.2. Unless new metal surface comes with a primer, apply a coat of latex primer for all new metal surfaces.
- 11.3. If rust is present, it should be removed with rust remover, and the affected areas covered with anti-rust primer.
- 11.4. For previously painted latex or alkyl surfaces, no primer required.
- 11.5. Product :
- 11.5.1. Paint : Dulux - Lifemaster
- 11.5.2. Primer : As recommended by Manufacturer
- 11.5.3. Sheen : See Finish Specification on Dwg A5.03
12. Maintenance Materials : At project completion, provide 1 can of 4 litres (1 gallon) of extra paint, unopened, for each paint type and color, properly labeled, for Owners future maintenance use.
13. All materials and paints shall be lead and mercury free and shall have low VOC content where possible.
14. Where required, paints and coatings shall meet flame spread and smoke developed ratings designated by local Code requirements and/or authorities having jurisdiction.
15. Perform no painting work when the ambient air and substrate temperatures are below 50 degrees F (10 degrees C), relative humidity is above 85% or dew point is less than 5 degrees F (3 degrees C) for both interior and exterior work.
16. Previously painted surfaces must be clean, dry, and free from dust, oil, grease, rust, soap, wax, loose paint or other contaminants. Scrape loose paint and sand edges smooth. Clean very well and prime bare spots with recommended primer for original surface type.
17. All surfaces to be painted to receive minimum 3 coats of paint. For deep or bright accent colors, paint more than 3 coats to achieve satisfactory consistency.
18. Sand and dust between each coat.
19. Where painting is around existing mechanical and electrical fixtures and equipment, coordinate with other trades to remove face plates and/or trim before painting.

10 25 13 PATIENT BED SERVICE WALLS

1. Provide factory fabricated pre-piped and pre-wired patient bed service wall units including but not limited to following:
- 1.1. surface mounted horizontal headwall units
2. Submit product data and samples in accordance with SECTION 01 33 00 SUBMITTAL PROCEDURES and per manufacturer's instructions and recommendations.
3. Certifications :
- 3.1. Refer to manufacturer's instructions and recommendations for required certifications.
4. Regulatory Requirements Submittals :
- 4.1. Refer to manufacturer's instructions and recommendations for required submittals.
5. Samples :
- 5.1. Plastic laminates minimum 300mm (12") square.
- 5.2. Closeout Submittals :
- 5.3. Refer to manufacturer's instructions and recommendations for required submittals.
7. Description :
- 7.1. Product : Amico - Majestic Series or approved equivalent
- 7.1. Configuration : Single-tier
- 7.2. Mounting : Surface mounted
- 7.3. Sizes : As Indicated on Drawings
- 7.4. Enclosure : extruded anodized aluminum alloy sections. Provide 16 gauge full-length galvanized steel backing plate, complete with knock out locations for each individual power source and medical gas termination.
- 7.5. Fascia : Aluminum strips with plastic laminate panels as specified herein.
- 7.6. Covers and End caps (as applicable):
- 7.6.1. Top and bottom cover panels: manufactured from powder coated extruded aluminum.
- 7.6.2. End caps : manufactured from injection molded ABS fire retardant plastic.
- 7.6.3. Service Chase: Not applicable.
- 7.7. Integrated Accessory Rails: Design rail system with no sharp edges to meet infection prevention and control requirements and to provide access for cleaning purposes.
- 7.7.1. Single-tier headwall system : Provide two (2) accessory channels integrated into aluminum extrusion assembly with no mechanical screws used to affix rail headwall.
- 7.7.2. Finish : clear etched anodized finish.
- 7.7.3. Plastic Laminate : Colours and Finishes to be selected by Consultant.
8. Components :
- 8.1. Ensure components specified in this Section are factory installed and tested.
- 8.2. Provide components recessed into gypsum board assemblies properly sealed to maintain acoustic ratings.
- 8.3. Medical Gas Piping and Medical Gas Outlets: Location, style and type as recommended by manufacturer. Ensure each outlet, piping and manifold are factory tested to pass a 24 hour standing pressure test. Provide cover plates and trim plates for all provisions unless indicated otherwise.
- 8.4. Ensure patient bed service walls can accommodate provisions including, but not limited to, nurse call equipment, monitoring equipment, data jacks, phone jacks, lighting, etc.
9. Accessories :
- 9.1. Provide accessories indicated on Drawings.
10. Finishes :
- 10.1. Steel : Hot-dip galvanized after fabrication, ASTM A123 or ASTM A653
- 10.2. Aluminum: Class 1, clear anodic finish, complying with AAMA 611
11. Comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.
12. Verify actual site dimensions and location of adjacent materials prior to commencing work. Notify Consultant in writing of any conditions which would be detrimental to the installation.
13. Install headwall units in accordance with manufacturer's instructions and recommendations.
14. Anchor all fixed components securely, square, level, and plumb at heights indicated on drawings.
15. Arrange and Provide a demonstration of the systems in a series of tests for the Owner's and Consultant's verification.
16. Clean all surfaces to remove all marks, soil, and foreign matter immediately after installation and adjustment are complete.
17. Recheck all components and perform any necessary additional cleaning just prior to substantial completion.
18. Protect installed headwall from damage during remaining construction work.

10 26 00 CORNER GUARDS

1. Submit product data and samples in accordance with SECTION 01 33 00 SUBMITTAL PROCEDURES
2. Description :
- 2.1. Corner Guards : L- shape with 3" flange - see drawings for heights and locations
- Approved Product : See Finish Specification on Dwg A5.03
- 2.2. Wall Protection : High impact rigid sheet supplied in 4' x 8' or 10' (1.22m x 2.44m or 3.05m) sheet sizes in suede texture.
- Approved Product : See Finish Specification on Dwg A5.03
- 2.3. Crash Rails : See Finish Specification on Dwg A5.03
3. Colours : Allow three (3) colour See Finish Specification on Dwg A5.03
4. Install in accordance with manufacturer's recommendations. Fix mechanically through wall finishes into framing. Heights in accordance with drawings.
5. Protect installed products until completion of project.
6. Touch-up, repair or replace damaged products before Substantial Completion.

12 20 00 WINDOW TREATMENT (NOT APPLICABLE)

1. Submit product data and samples in accordance with Section 01 33 00 SUBMITTAL PROCEDURES
2. Submit manufacturer's shop drawings, including plans, elevations, sections, product details, installation details, operational clearances, wiring diagrams, assembly and mounting details, detail installation details, and recommendations and fit-up to adjacent work, finishes, options and accessories.
4. Product shall be delivered to site in manufacturer's original packaging.
5. Product shall be handled and stored to prevent damage to materials.
- Roller Shades :
- 6.1. Intended use: Office
- 6.2. Height: See drawings for height, lengths and location.
- 6.3. Color: One (1) color to be selected by Consultant from manufacturer's complete range.
- 6.4. System: Manual
- 6.5. Approved Product: See Finish Specification on Dwg A5.03
6. Install in accordance with manufacturer's instructions. Install support brackets and with clearance sufficient to permit unencumbered operation of shade and hardware as recommended by manufacturer.

7. Fabric: Install straight and flat without buckling or distortion.
8. Protect installed products until completion of project.
9. Touch-up, repair or replace damaged products before Substantial Completion.

13 09 00 RADIATION PROTECTION

1. Section Includes
- 1.1. Lead sheets
- 1.2. Lead-lined hollow metal door frames with lead-lined wood doors
- 1.3. Lead-lined hollow metal view window frames with radiation shielding leaded glass
2. References:
- 2.1. Physicist report prepared by Owner's radiation physicist
- 2.2. Specifications for Commercial Steel Doors and Frames and Canadian Fire Labelling Guide by the Canadian Steel Door and Frame Manufacturers Association (CSDFMA).
- 2.3. Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
- 2.4. Health Canada Safety Code 35 - Radiation Protection in Radiology (2008)
- 2.5. Guideline and Checklist for installation of Lead Shielding in a Diagnostic X-ray Facility from the Centre for Disease Control of BC and NCRP Report 147 (2006)
- 2.6. Canadian Nuclear Safety Commission Regulations and Guidelines R129 Rev 1(2004) and RD52(2010)
3. Submittals:
- 3.1. Product Data: Manufacturer's data sheets on each product to be used
- 3.2. Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, layout of radiation-protected areas, lead thickness or lead equivalencies of components
- 3.3. Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns
4. System Requirements:
- 4.1. Materials, thicknesses, and configurations indicated on drawings are based on radiation protection design prepared by Owner's radiation health physicist. Provide radiation protection consistent with materials specified in thicknesses and locations indicated.
- 4.2. Provide materials and workmanship, including joints and fasteners, that maintained continuity of radiation protection at all points and directions equivalent to materials specified in thicknesses and locations indicated.
- 4.3. Lead-Lined Assemblies: Provide lead thickness in doors, door frames, window frames, and other items located in lead-lined assemblies, not less than that indicated for assemblies in which they are installed unless indicated otherwise.
- 4.4. Lead Glazing: Provide lead equivalence not less than that indicated for assembly in which glazing is installed unless indicated otherwise.
5. Materials:
- 5.1. Lead Sheets: 99.9 percent pure unpierced virgin lead, free from dross, oxide inclusions, scale, laminations, blisters, and cracks.
- 5.2. Lead must be "rolled" lead, not acoustic or sound proofing lead.
- 5.3. Thickness: As shown on drawings and no less than 1/32 inch (0.7 mm) if not indicated.
- 5.4. Variation in sheet thickness shall not exceed 3 percent.
6. Manufactured Units:
- 6.1. Lead-Lined Wood Doors:
- 6.1.1. Construction: Refer to Section 80 14 00 Wood doors
- 6.1.2. Flush veneered construction using single continuous layer of sheet lead in center of door. Laminate wood cores under hydraulic pressure on each side of lead.
- 6.1.3. Extend sheet lead lining to door edges providing X-Ray absorption equal to partition in which door
- 6.1.4. Edge Strips: Minimum thickness of 2 inches (51 mm) each edges of door
- 6.1.5. Shield cutouts for locksets with lead sheet of same thickness used in door. Lap lining of cutouts with door lining 1 inch (25 mm).
- 6.1.6. Provide lead-lined astragals for pairs of doors.
- 6.2. Lead-Lined Hollow Metal Door Frames:
- 6.2.1. 16 gage (1.5 mm) welded steel frames with 4-7/8 inches (124 mm) throat and 2 inches (51 mm) face. Provide angle iron spot welded at 6 inches (152 mm) on center, and anchor bolts to secure frame if lead thickness is 1/8 inch (3 mm) or greater.
- 6.2.2. Door Frame Supports: Double 16ga metal studs both sides anchored to structural slab above - see SECTION 09 22 16 NON STRUCTURAL METAL FRAMING for metal stud requirements
- 6.3. Radiation Shielding Leaded Glass:
- 6.3.1. Clear leaded glass containing 48 percent lead oxide (by weight) and 15 percent barium. Thickness as required to provide radiation protection equivalent to that provided by sheet lead in partition in which lead glass is installed. Equivalencies based on 150 KVP unless indicated otherwise.
- 6.4. Lead-Lined Hollow Metal View Window Frames:
- 6.4.1. 16 gage (1.5 mm) welded steel frames adjustable from 4-1/4 inches (108 mm) to 6 inches (152 mm) wall thickness. Design window frames to accept any thickness of radiation shielding leaded glass, radiation shielding X-Ray safety glass, or radiation shielding leaded acrylic.
- 6.4.2. Protection: Provide radiation protection equivalent to that provided by sheet lead in partition in which view window is installed.
- 6.4.3. Stops: Provide 1/2 inch (13 mm) removable stops.
7. Installation of doors and frames of doors:
- 7.1. Install lead-lined steel door frames per SECTION 08 10 00 HOLLOW METAL DOORS AND FRAMES
- 7.1.1. Lap lead lining of frames over lining in walls at least 1 inch (25 mm).
- 7.1.2. Lead Lining of Frames: Line inside of frames with lead of thickness not less than that required in doors and walls in which frames are used. Form lead to match frame contour, continuous in each jamb and across head, lapping stops. Form lead shields around areas prepared to receive hardware. Lap lining over lining in walls at least 1 inch (25 mm).
- 7.2. Install lead-lined wood doors per SECTION 08 14 00 WOOD DOORS
- 7.3. Line covers, escutcheons, and plates to provide shielding at cutouts and penetrations of frames and doors.
8. Installation of window frames and glazing to maintain continuity of radiation protection and with radiation resistant glazing in frame.
9. Installation of lead sheet
- 9.1. Screwed lead sheet directly on steel stud. All seams must be on studs and seams must overlap by a minimum of 2"
- 9.2. If there are solid structural column, lead sheet needs only to overlap column by 4" (100mm)
- 9.3. At any penetrations of lead linings, provide lead shields to maintain continuity of protection.
- 9.4. Outlet Boxes and Conduit: Cover or line with lead sheet lapped over adjacent lead lining at least 1 inch (25 mm). Wrap conduit with lead sheet for 10 inches (250 mm) from box.
- 9.5. Duct Openings: Unless otherwise indicated, line or wrap ducts with lead sheet for distance from partition/ceiling equal to 3 times the largest opening dimension. Lap lead sheet with adjacent lead lining at least 1 inch (25 mm).
- 9.6. Piping: Wrap piping with lead sheet for 10 inches (250 mm) from point of penetration.
- 9.7. Secure shields at penetrations using adhesive or wire ties, but not penetrating fasteners.
10. Field Quality Control
- 10.1. Field Inspection: Lead installation must be examined, tested and approved by qualified independent testing agency and/or radiation health physicist hired by Owner before installation of drywall.
- 10.2. Correct deficiencies and remove and replace radiation protection that inspection reports indicate does not comply with specified requirements.
11. Protection
- 11.1. Lock radiation-protected rooms once doors hardware is installed. Limit access to only those persons performing Work in radiation-protected rooms or as directed by Owner.

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12	ISSUED FOR CONSTRUCTION	OCT 13, 2021	RC
9-11	NOT ISSUED	-	-
8	TENDER ADDENDUM 1	JUNE 10, 2021	RC
7	NOT ISSUED	-	-
6	NOT ISSUED	-	-
5	NOT ISSUED	-	-
4	NOT ISSUED	-	-
3	NOT ISSUED	-	-
2	NOT ISSUED	-	-
1	NOT ISSUED	-	-
No.	REVISION	DATE	BY

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PHASE 2 - GEN FLUORO
SPECIFICATIONS -
MATERIALS & FINISHES

SCALE:
AS NOTED
DATE:
OCTOBER 2020
DRAWN:
RC
CHECKED:
DC
JOB No.:
DCYT2009

PHASE 2
A7.03

GENERAL NOTES

1.

The tenant improvements to this building have been designed in accordance with the British Columbia Building Code of Canada 2018 (BCBC).
2.

Read structural drawings together with architectural, mechanical and other drawings for detail dimensions, locations of door and window openings, duct work, recesses, inserts and other items. In the event of discrepancies between drawings, the more stringent requirements shall be followed.
3.

Verify all dimensions and examine site conditions prior to fabrication of all items to ensure correct fit.
4.

For conditions not explicitly shown, contractor shall immediately request clarifications from the structural engineer.
5.

All connection details to the existing building shown on these drawings are subject to verification of existing conditions on site. Field conditions may require modified or alternate details to be issued by the structural engineer. For conditions not explicitly shown, details to be similar to those shown on the drawings.
6.

Provide adequate shoring or bracing during construction to resist all forces including forces such as wind, seismic and unbalanced forces due to construction sequence.
7.

Observe and enforce all construction safety measures required by the BCBC, Part 8 and the Worker's Compensation Board of British Columbia. Employ a qualified professional specialty Engineer registered in British Columbia for the design of all falsework and temporary support of all structural elements. It is the sole responsibility of the Contractor to ensure that no part of the work is subjected to a load which will endanger the safety of the building or workers. Use temporary bracing where necessary to support all loads to which structure may be subjected, including erection equipment and construction operations.
8.

Field Review

Provide a minimum of 24 hours notice to the Engineer for routine field reviews of:

steel studs, prior to application of sheathing

unistrut framing, prior to concealment

The Contractor is responsible for pre-inspecting the work and confirm completeness prior to field review by the Engineer.
9.

Design Live Loads

Seismic Factors: Sa(0.2)= 0.113 PGA=0.049 Ie= 1.5

Assumed Site Class= D F(0.2)=1.15

Basic wind pressure(1:50) 0.37 kPa Iw=1.25

Minimum lateral loads on interior wall studs

Spsf or seismic load
10.

Structural Steel Studs

Design and fabrication of steel studs to conform to CSA S136 for load bearing use.

Stud sizes used for this project: 92x20Ga

Studs, track and components of cold-formed steel to ASTM A446: minimum yield strength 33 ksi

All materials galvanized with a coating not less than G60.

Fabricate and install components in accordance with manufacturer's written recommendations and as shown on drawings.

Attach components together with self-tapping metal screws, minimum 2-#8 screws per connection, u.n.o. Wire tying or crimping is not permitted.

Bridging requirements:

Stud walls use internal "U" channel bridging at 1220 o.c. maximum.

Celling joists use 92 deep studs on flat to top flange of joists at 1220 o.c. maximum.
11.

Structural Steel

Structural steel to conform to CAN/CSA G40.21-04 u.n.o.

HSS grade 350W, class C

Plates: grade 300W

Anchor bolts, bolts, nuts and washer: ASTM A307 uno

Pipe sections: to ASTM A53 grade B, min. yield strength 35 ksi

Bolts, nuts and washers: to ASTM A325, minimum size 3/4"

Anchor bolts, nuts and washers: to ASTM A307 u.n.o.

Substitution of members shown on drawings may be permitted with the prior approval of the Engineer, provided the substituted member has equal or higher strength and rigidity. Cost for any substitutions to be included in the contract price.

Structural steel fabricator to be certified by the Canadian Welding Bureau to CSA W47.1-09, Division 1 or Division 2.

Submit shop drawings of structural steel for review prior to fabrication. The Contractor shall be responsible for the supervision of the fabrication of the structural steel.
12.

Welding

Welding design and practice to CSA W59-03.

All welding to be performed by Canadian Welding Bureau approved welders in accordance with CSA W47.1-09. Minimum welds, except where shown or required by connection design: Minimum leg size of welds to be 5mm
13.

Anchors to Existing Concrete

Before installing anchors, contractor shall review existing conditions and confirm depth of anchor penetration into existing concrete will not interfere with existing embedded conduit. Prior to drilling holes for anchors, locate existing steel reinforcing using a non-destructive test method and adjust anchors as required to miss existing conduit.

Any deteriorated, spalling or defective concrete encountered must be brought to the immediate attention of the structural engineer for evaluation prior to continuing with the installation of the anchors.
14.

Saw cutting and coring:

All work to be done by qualified workers. Prior to cutting or coring of any concrete, Contractor must scan the area for reinforcement and utility services. Mark results from scan and proposed locations of cuts and cores for review by the engineer prior to cutting. Do not over-cut corners or edges of openings. At corners, core hole tangent to corner and saw cut remainder of cut. Use small tools as necessary to complete work. Cut material into pieces that can be transported to their disposal outside the building without overloading the floor structures. Where reinforcing steel bars are cut, touch up ends of bars with zinc-rich paint. See plans for additional notes for coring and cutting.
15.

Metal Framing System

Use Unistrut Metal Framing System members with designation as shown in strict accordance with manufacturers instructions where shown and required. No substitutions permitted without prior written consent of Engineer.

Bolts, nuts and washers: to ASTM A307, minimum size ½"
16.

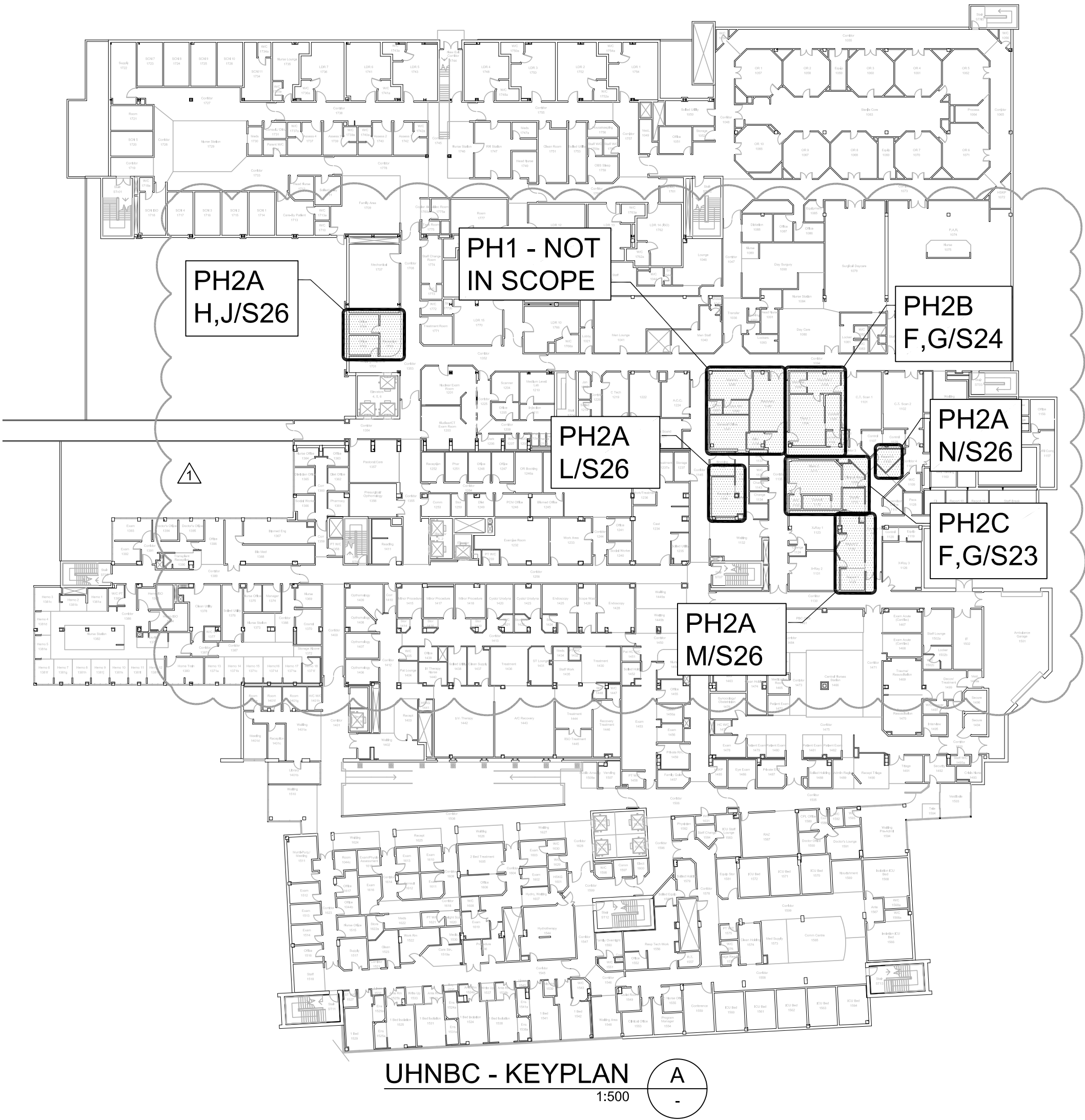
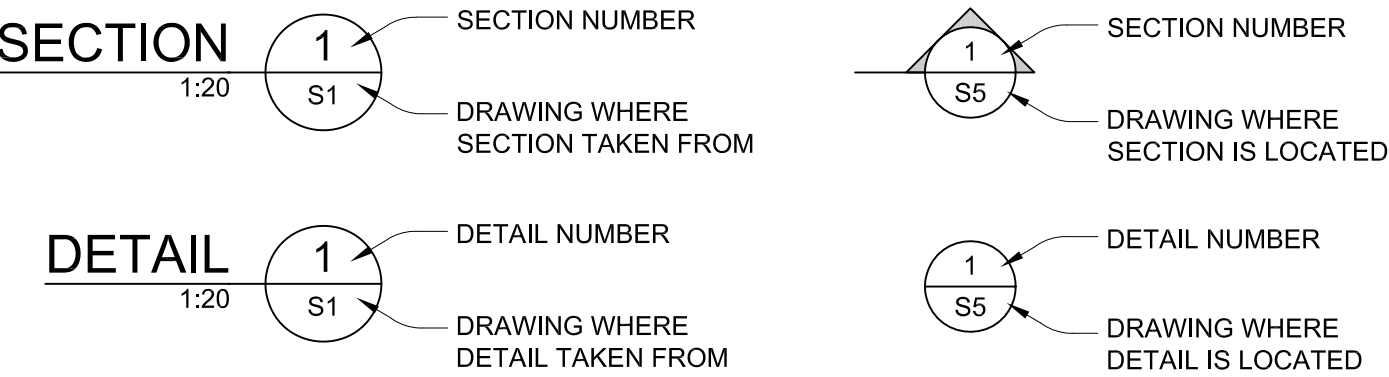
Equipment Installation

Handle and install equipment in accordance with all applicable instructions by equipment manufacturer.

ABBREVIATIONS

ALT	ALTERNATE(LY)	HORIZ	HORIZONTAL
APPROX	APPROXIMATE(LY)	INT	INTERIOR
ARCH	ARCHITECT(URAL)	LG	LONG
B, BOT	BOTTOM	LV	LENGTH VARIES
B TO B	BACK TO BACK	MAX	MAXIMUM
BTWN	BETWEEN	MECH	MECHANICAL
BLDG	BUILDING	MFR	MANUFACTURER
BU	BUILT UP	MIN	MINIMUM
CL	CENTRELINE	N/S	NEAR SIDE
C/W	COMPLETE WITH	NTS	NOT TO SCALE
CC	CENTRE TO CENTRE	OC, O/C	ON CENTRE
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OPNG	OPENING
CONST	CONSTRUCTION	OPP	OPPOSITE
CONT	CONTINUOUS	PERP	PERPENDICULAR
CTR	CENTRE	PL	PLATE
DIAG	DIAGONAL	PT	PRESSURE TREATED
DN	DOWN	R	RADIUS
DO	DITTO	REQ'D	REQUIRED
DP	DEEP	REV	REVISION
DTS	DEPTH TO SUIT	SECT	SECTION
DWGS	DRAWINGS	SIM	SIMILAR
EA	EACH	SK	SKETCH
EF	EACH FACE	SOG	SLAB ON GRADE
EL, ELEV	ELEVATION	SP	SPACE(D)(S)(ING)
EQ SP	EQUALLY) SPACES(D)	SS	STAINLESS STEEL
EXIST, EX	EXISTING	SST	SIMPSON STRONG-TIE
EXT	EXTERIOR	STD	STANDARD
FD	FLOOR	STIFF	STIFFENER
FDN	FOUNDATION	STIR	STIRRUP
FIN GR	FINISHED, FINAL GRADE	STL	STEEL
FF, FIN FL	FINISHED FLOOR	T	TOP
F/S	FAR SIDE	T&B	TOP AND BOTTOM
FRT	FIRE RETARDANT TREATED	THK	THICK(NESS)
FTG	FOOTING	TOS	TOP OF STEEL
GA, ga	GAUGE	TYP	TYPICAL
GALV	GALVANIZED (HOT DIPPED)	UNO	UNLESS NOTED OTHERWISE
GL	GRIDLINE, BAYLINE	U/S	UNDERSIDE
GN	GENERAL NOTES	VERT	VERTICAL
GND	GROUND	W	WIDE
GRD	GRADE	W/	WITH
H	HIGH	WP	WORK POINT, REFERENCE POINT

SYMBOLS



DRAWING LIST:	
S21	GENERAL NOTES & KEY PLAN
S22	TYPICAL DETAILS
S23	LEVEL 1 AND RCP GEN FLUORO AND RECOVERY ROOM
S24	LEVEL 1 AND RCP CLERICAL WORK SPACE AND ROOF PLAN
S26	LEVEL 1 CONTROL ROOM, RAD OFFICE AND PORTER ROOM

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ARCHITECT :



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ISSUED FOR BP REVISION 1	2021/08/04	AD
ISSUED FOR TENDER	2021/06/04	AD
ISSUED FOR 80% CD	2021/05/21	AD
ISSUED FOR BUILDING PERMIT SUBMISSION	2021/05/07	AD
ISSUED FOR REVIEW	2021/04/08	AD
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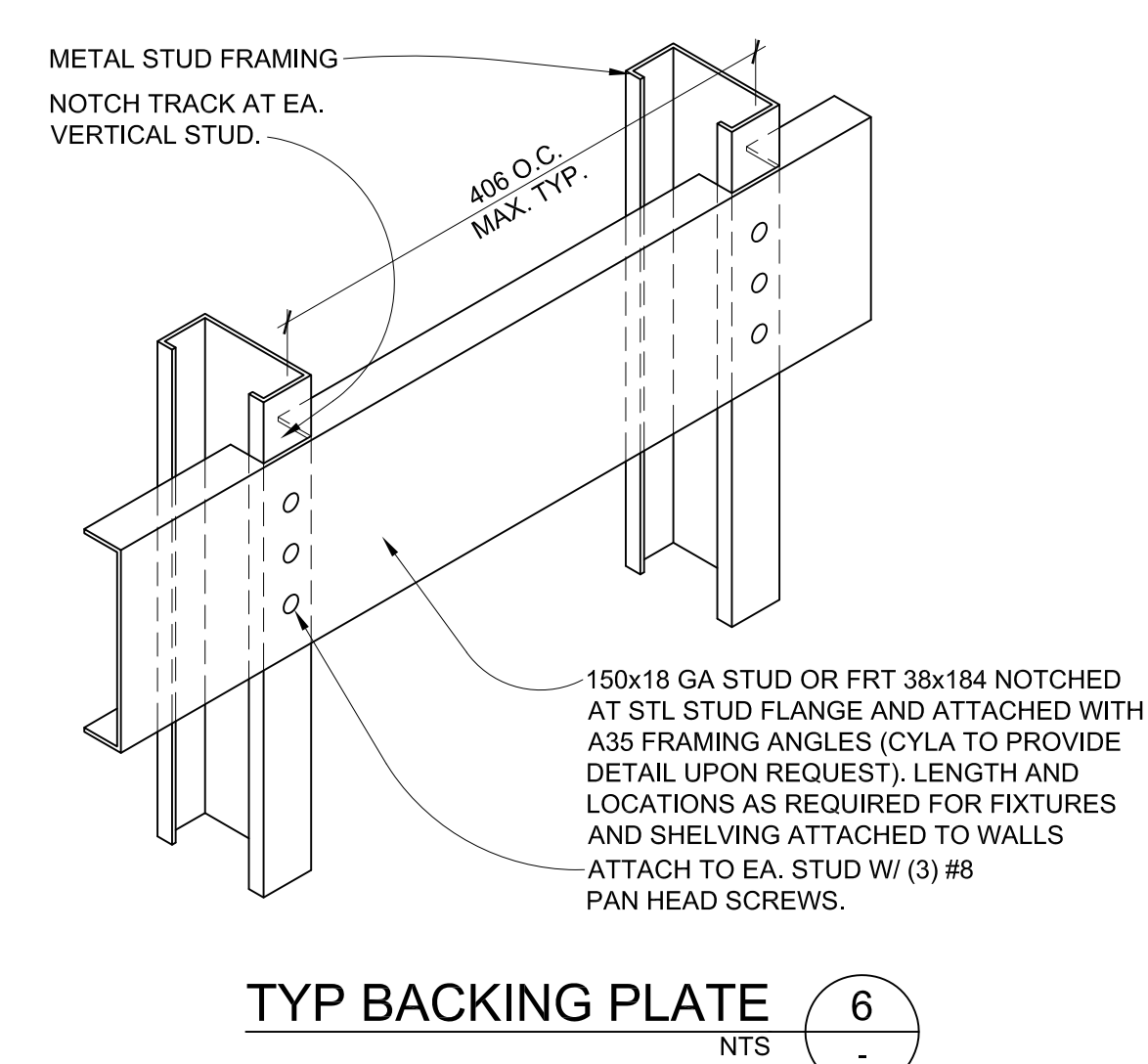
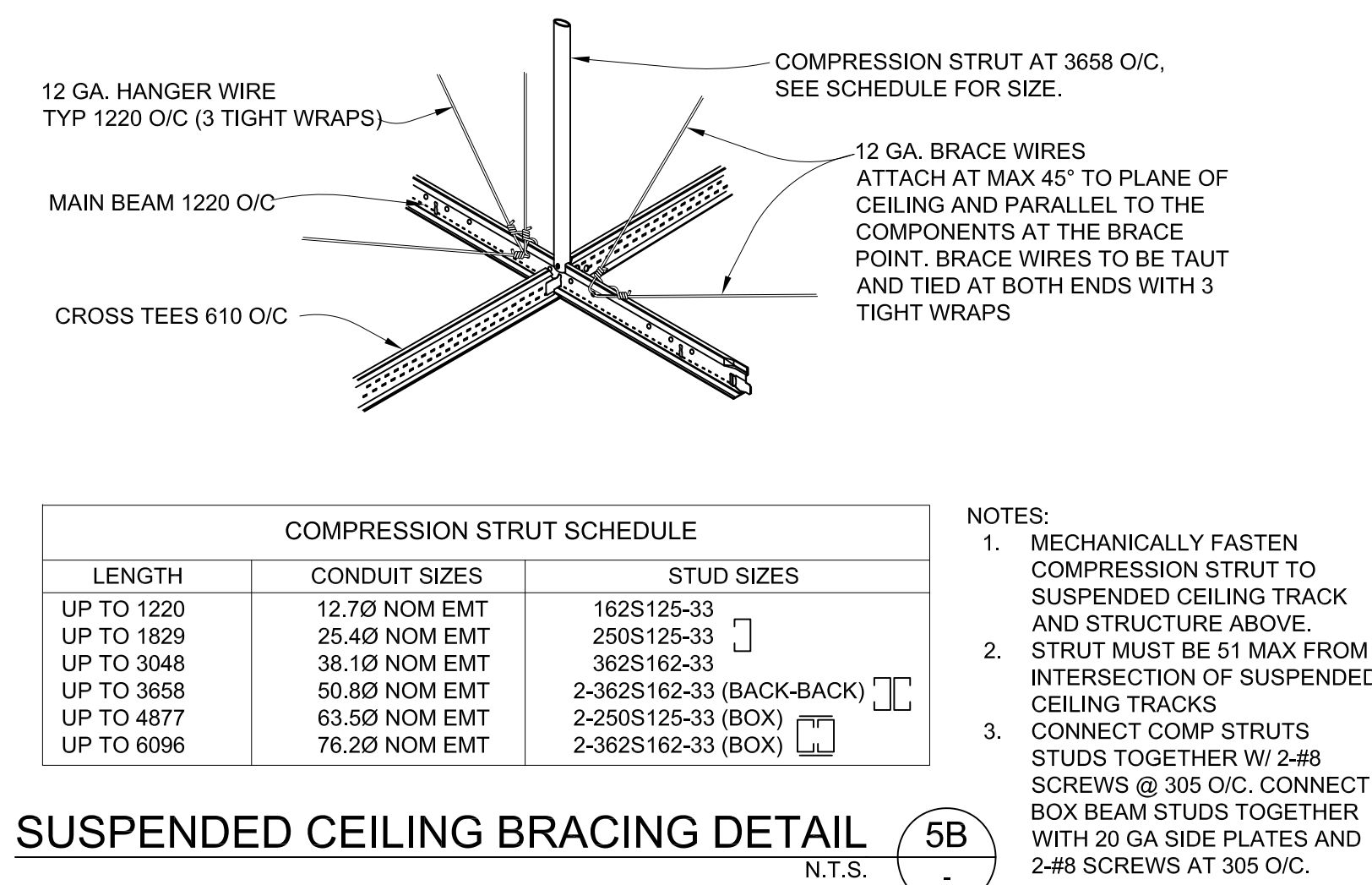
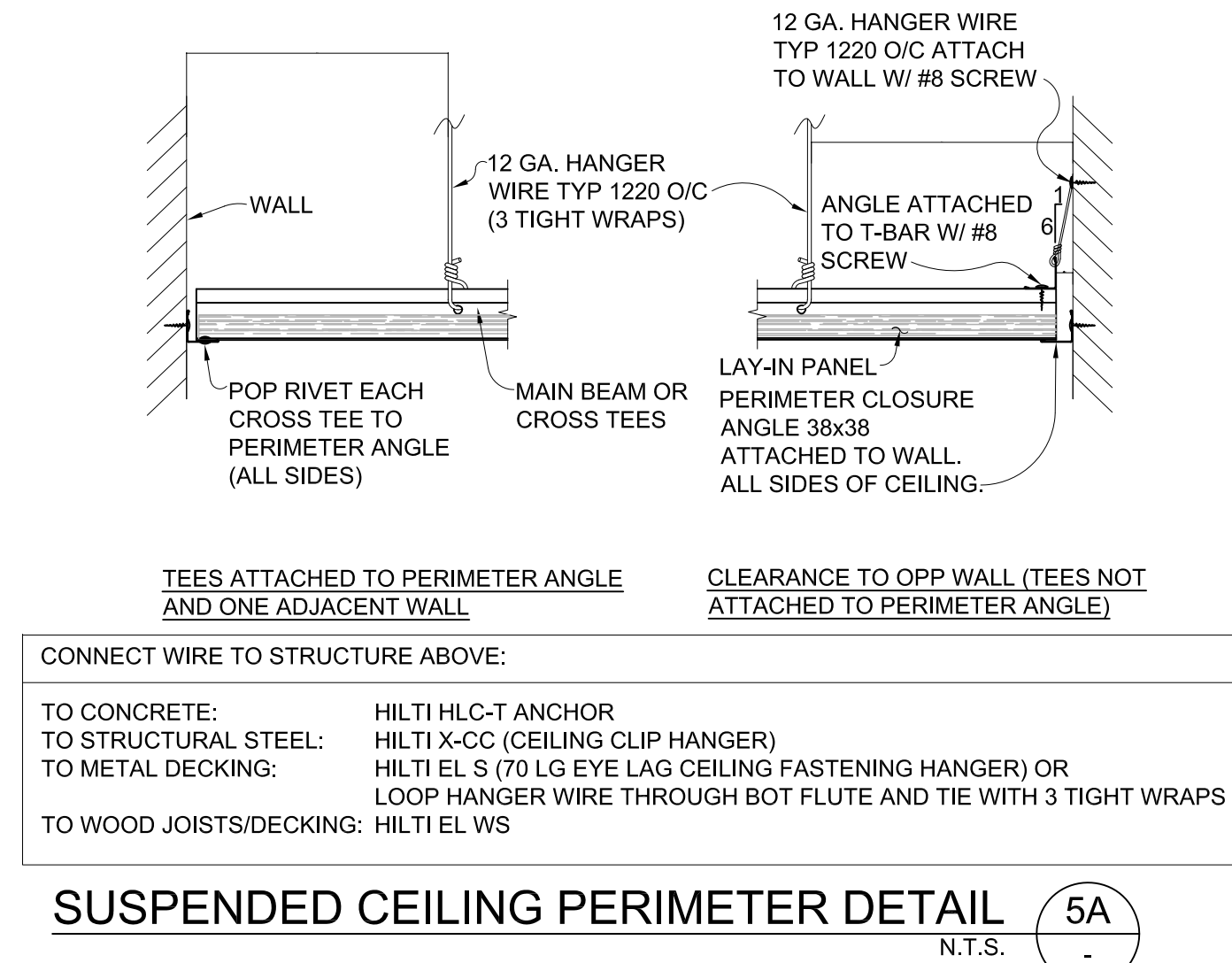
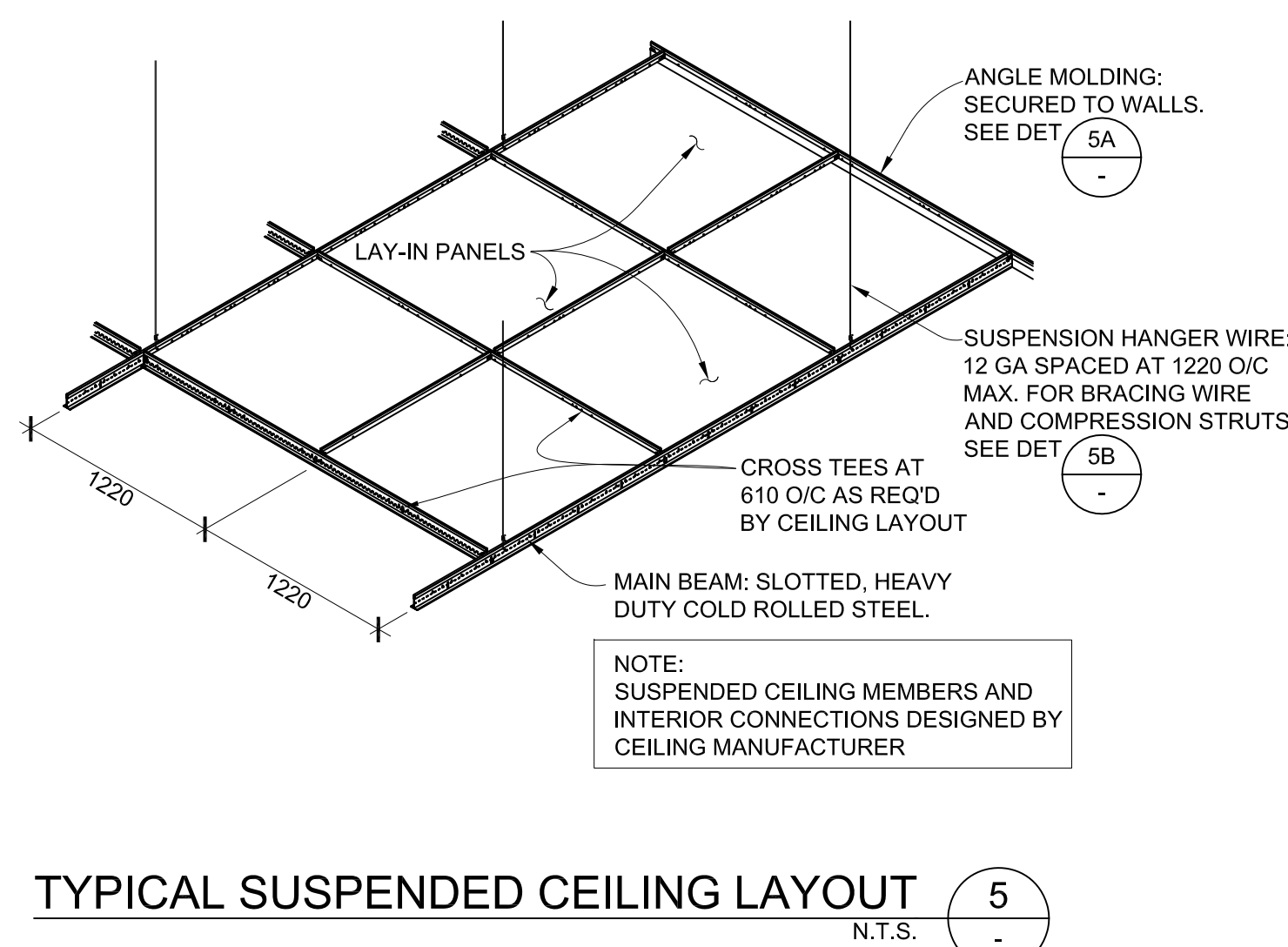
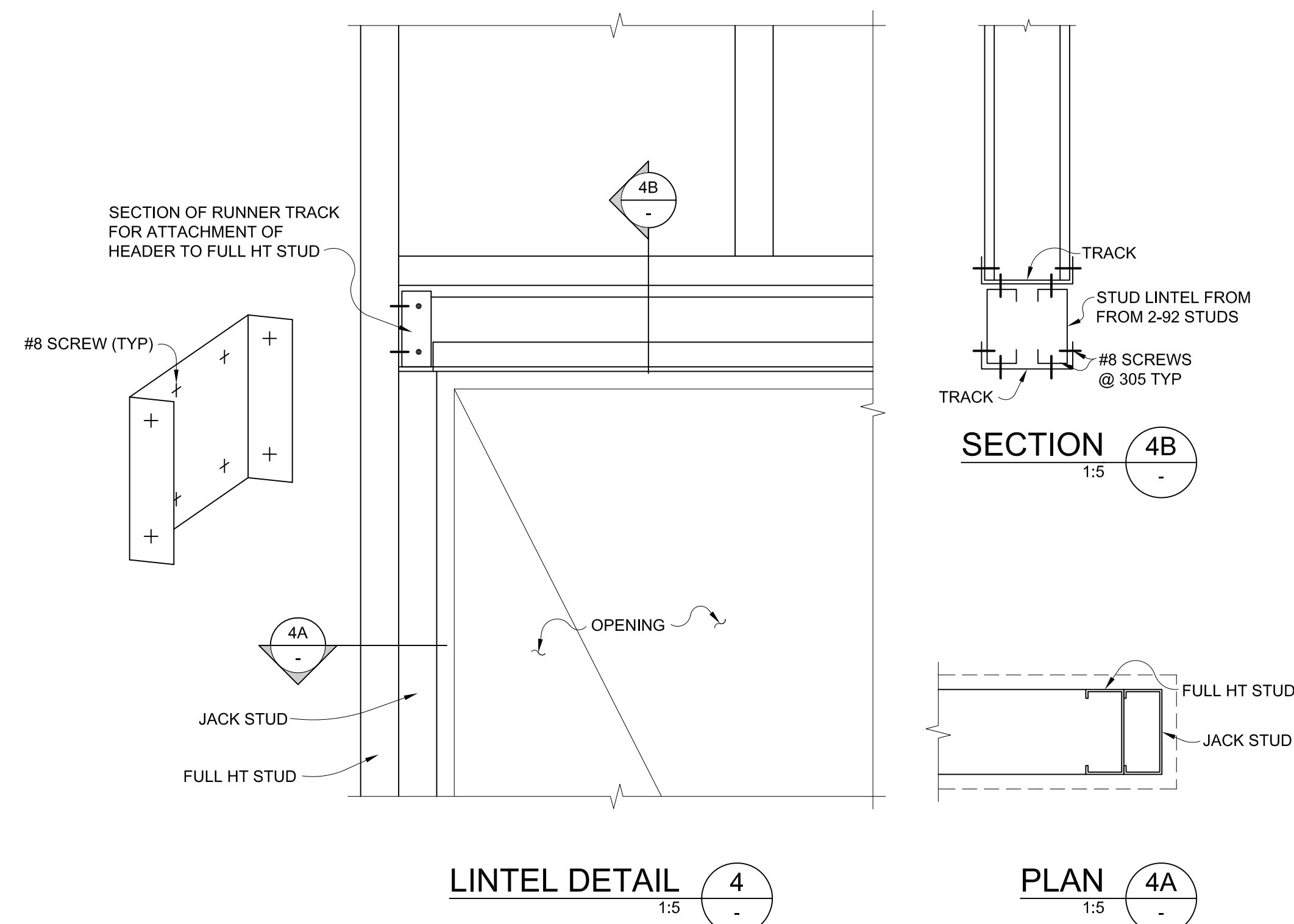
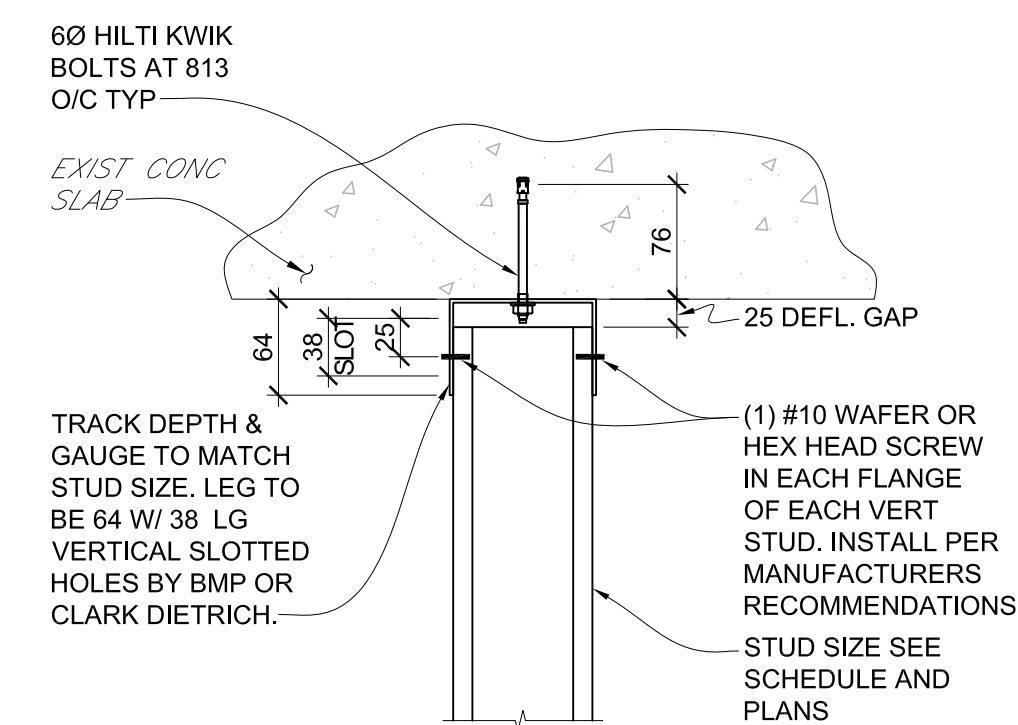
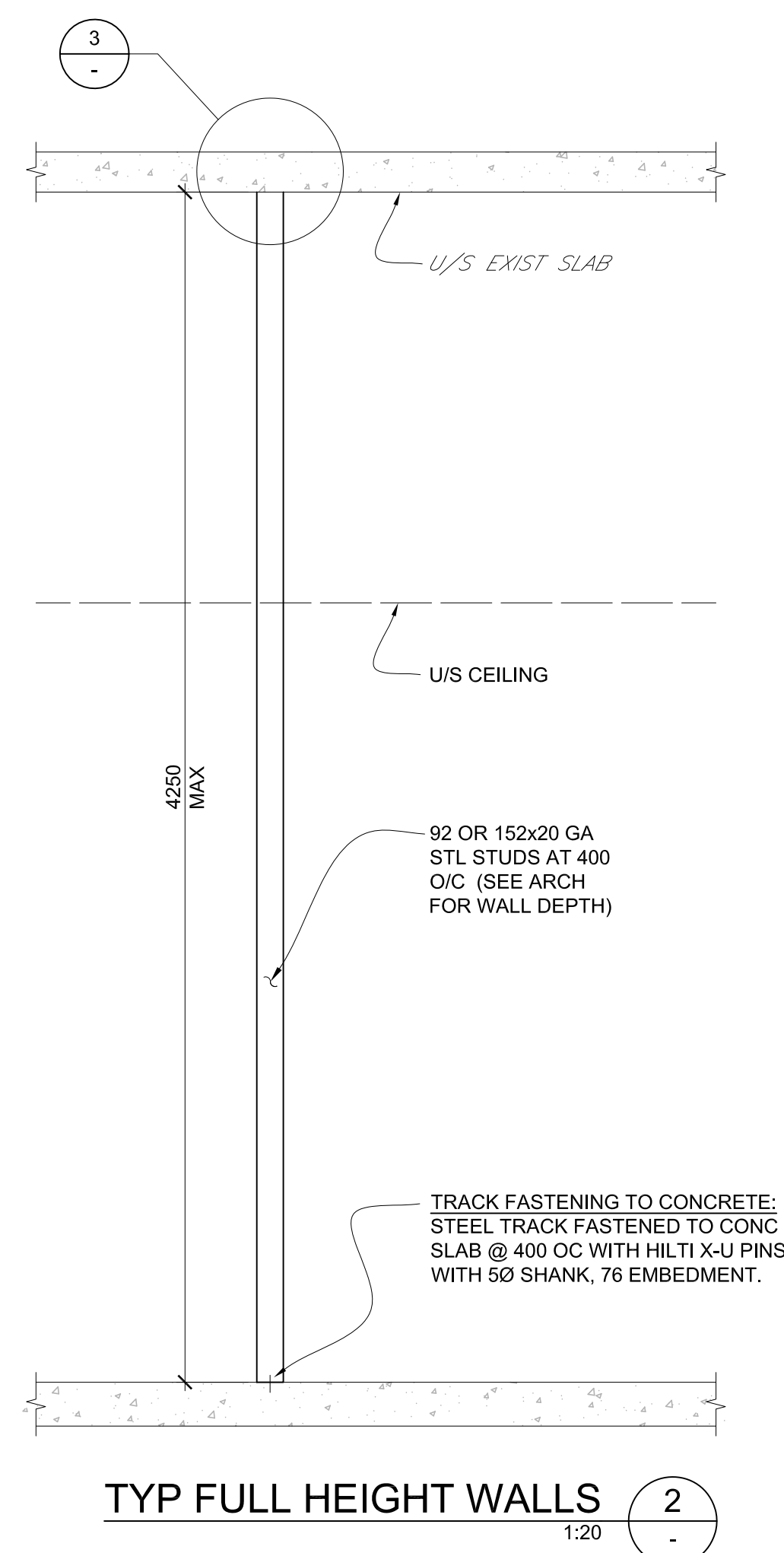
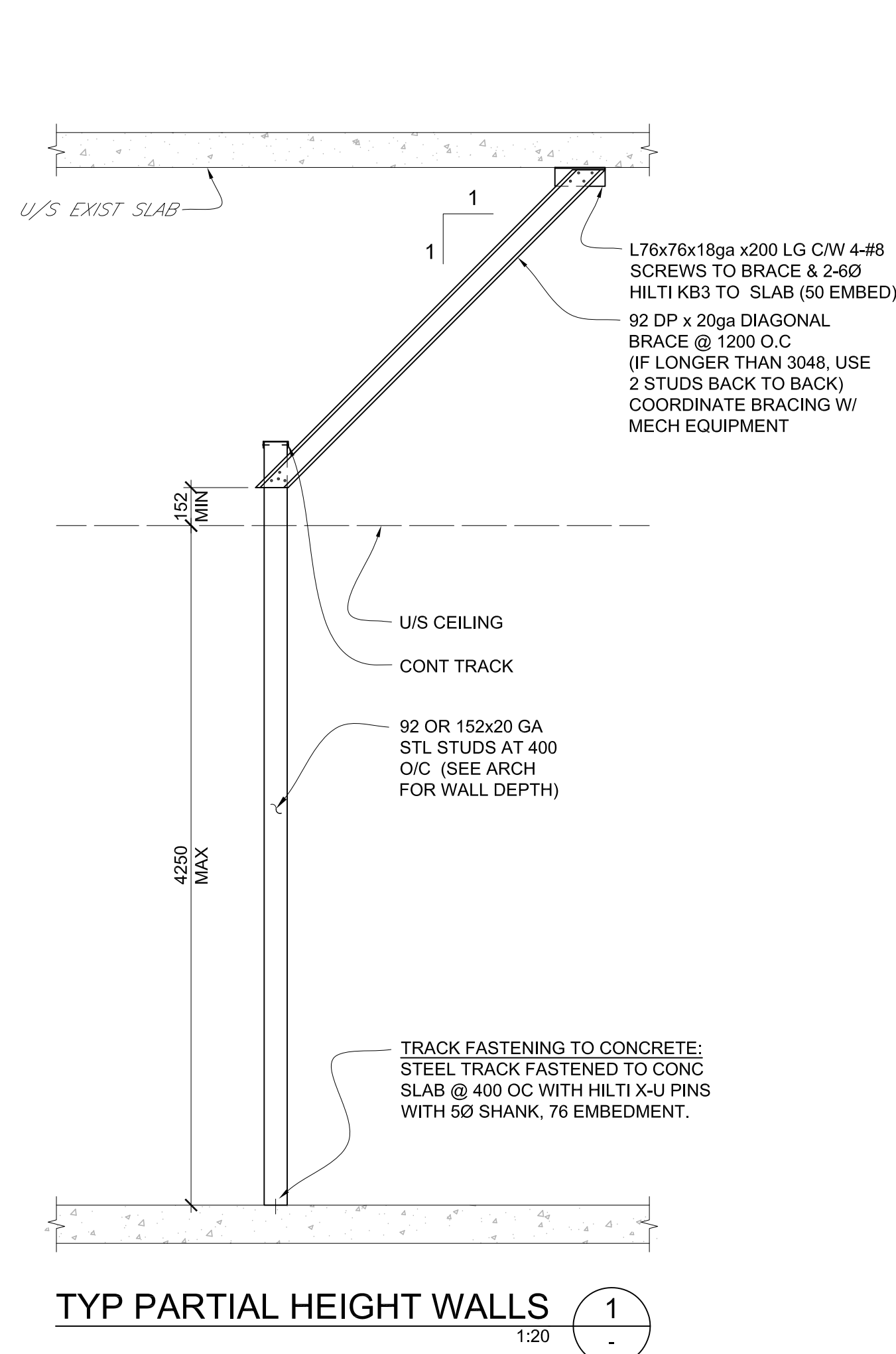
**PHASE 2 - GEN FLUORO
GENERAL NOTES
& KEY PLAN**





SCALE:
AS NOTED
DATE:
APRIL 2021
DRAWN:
SAL
CHECKED:
KM

JOB No.:
11815

**PHASE 2
S21**





COMPRESSION STRUT SCHEDULE		
LENGTH	CONDUIT SIZES	STUD SIZES
UP TO 1220	12.7Ø NOM EMT	162S125-33
UP TO 1829	25.4Ø NOM EMT	250S125-33 
UP TO 3048	38.1Ø NOM EMT	362S162-33
UP TO 3658	50.8Ø NOM EMT	2-362S162-33 (BACK-BACK) 
UP TO 4877	63.5Ø NOM EMT	2-250S125-33 (BOX) 
UP TO 6096	76.2Ø NOM EMT	2-362S162-33 (BOX) 

- NOTES:
1. MECHANICALLY FASTEN COMPRESSION STRUT TO SUSPENDED CEILING TRACK AND STRUCTURE ABOVE.
 2. STRUT MUST BE 51 MAX FROM INTERSECTION OF SUSPENDED CEILING TRACKS
 3. CONNECT COMP STRUTS STUDS TOGETHER W/ 2-#8 SCREWS @ 305 O/C. CONNECT BOX BEAM STUDS TOGETHER WITH 20 GA SIDE PLATES AND 2-#8 SCREWS AT 305 O/C.



	ISSUED FOR CONSTRUCTION	2021/10/13	SAL
	ISSUED FOR TENDER	2021/06/04	AD
	ISSUED FOR 80% CD	2021/05/21	AD
	ISSUED FOR BUILDING PERMIT SUBMISSION	2021/05/07	AD
	ISSUED FOR REVIEW	2021/04/08	AD
io.	REVISION	DATE	BY



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the northern way of caring

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PHASE 2- GEN FLUORO
LEVEL 1 & RCP
GEN FLUORO AND
RECOVERY ROOM

SCALE: _____
AS NOTED _____
DATE: _____
APRIL 2021 _____
DRAWN: _____
SAL _____
CHECKED: _____
KM _____

PHASE 2
S23



ALL OPENING TO BE MIN
300 CLR FROM EX BEAM

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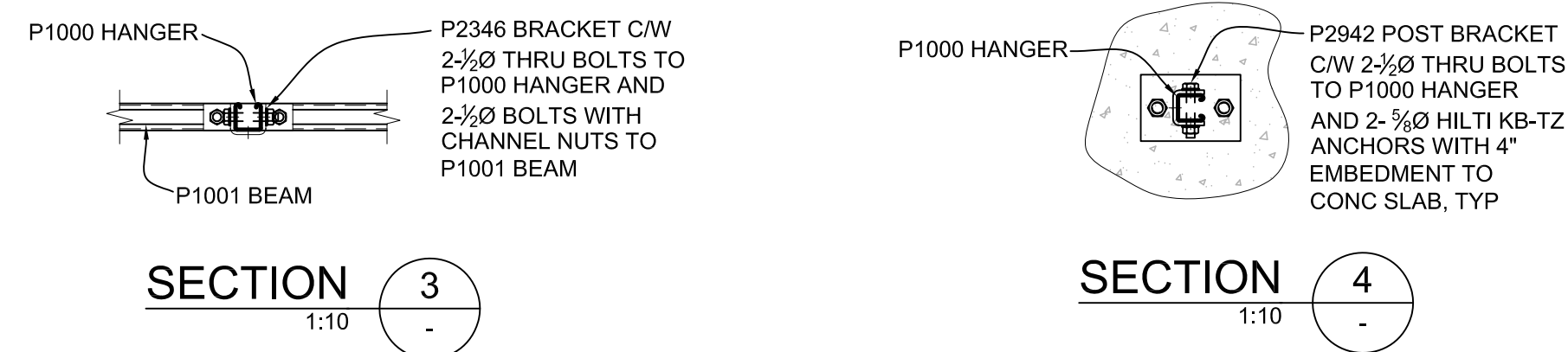


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Consulting Structural Engineers

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ISSUED FOR TENDER	2021/06/04	AD
ISSUED FOR 80% CD	2021/05/21	AD
10. REVISION	DATE	BY



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SCALE:
AS NOTED

DATE:
APRIL 2021

DRAWN:
SAL

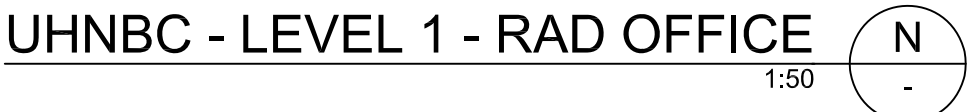
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PHASE 2

S25

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PHASE 2
S26

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PHASE 2 - GENERAL FLUORO

DRAWING LEGEND	
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	FIRE DAMPER
	TURNING VANES
	ACOUSTIC DUCT LINER
	FLEX DUCT
	MOTORIZED DAMPER
	BALANCING DAMPER
	EQUIPMENT TAG
	COMPLETE WITH DOOR UNDER CUT BY 3/4"
	SUPPLY AIR
	RETURN AIR
	VENT THROUGH ROOF
	BACK DRAFT DAMPER
	FIRE DAMPER
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HUB DRAIN
	ROOF DRAIN
	FROM ABOVE
	FROM BELOW
	VENT
	LAVATORY
	WATER CLOSET
	PLUMBING STACK
	BATHTUB
	SHOWER
	KITCHEN SINK
	SWITCH
	VARIABLE SPEED SWITCH
	THERMOSTAT / TEMPERATURE SENSOR
	REVERSE ACTING THERMOSTAT
	DIFFUSER/GRILLE/LOUVER TAG
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RECIRC. (DHWRC)
	SANITARY PIPING BELOW GRADE
	SANITARY PIPING ABOVE GRADE
	PARKING SANITARY (ROUTE TO OIL INTERCEPTOR)
	SANITARY VENTING
	PERIMETER DRAIN TILE
	STORM PIPING ABOVE GRADE
	FIRE PROTECTION PIPE
	PIPING DROP / RISE
	STRAINER
	BALANCING VALVE
	CIRCUIT BALANCE VALVE
	UNION
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	2 WAY CONTROL VALVE
	3 WAY CONTROL VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	PUMP
	FLEXIBLE CONNECTOR
	APPROVED REDUCED PRESSURE BACKFLOW PREVENTER
	PRESSURE RELIEF VALVE PIPED TO DRAIN
	FIRE DEPT. SIAMESE CONNECTION/ FIRE STANDPIPE
	TEMPERATURE GAUGE AND DDC SENSOR LOCATION
	PRESSURE GAUGE C/W GAUGE COCK
	AIR VENT
	AUTOMATIC AIR VENT, PIPED TO FLOOR DRAIN OR P-TRAP
	SANITARY & STORM PIPE CLEAN-OUT FLUSH TO FLOOR SLAB
	SANITARY & STORM PIPE CLEAN-OUT AT END OF PIPE
	FIRE DAMPER HORIZONTAL/ VERTICAL
	SPRINKLER PENDANT

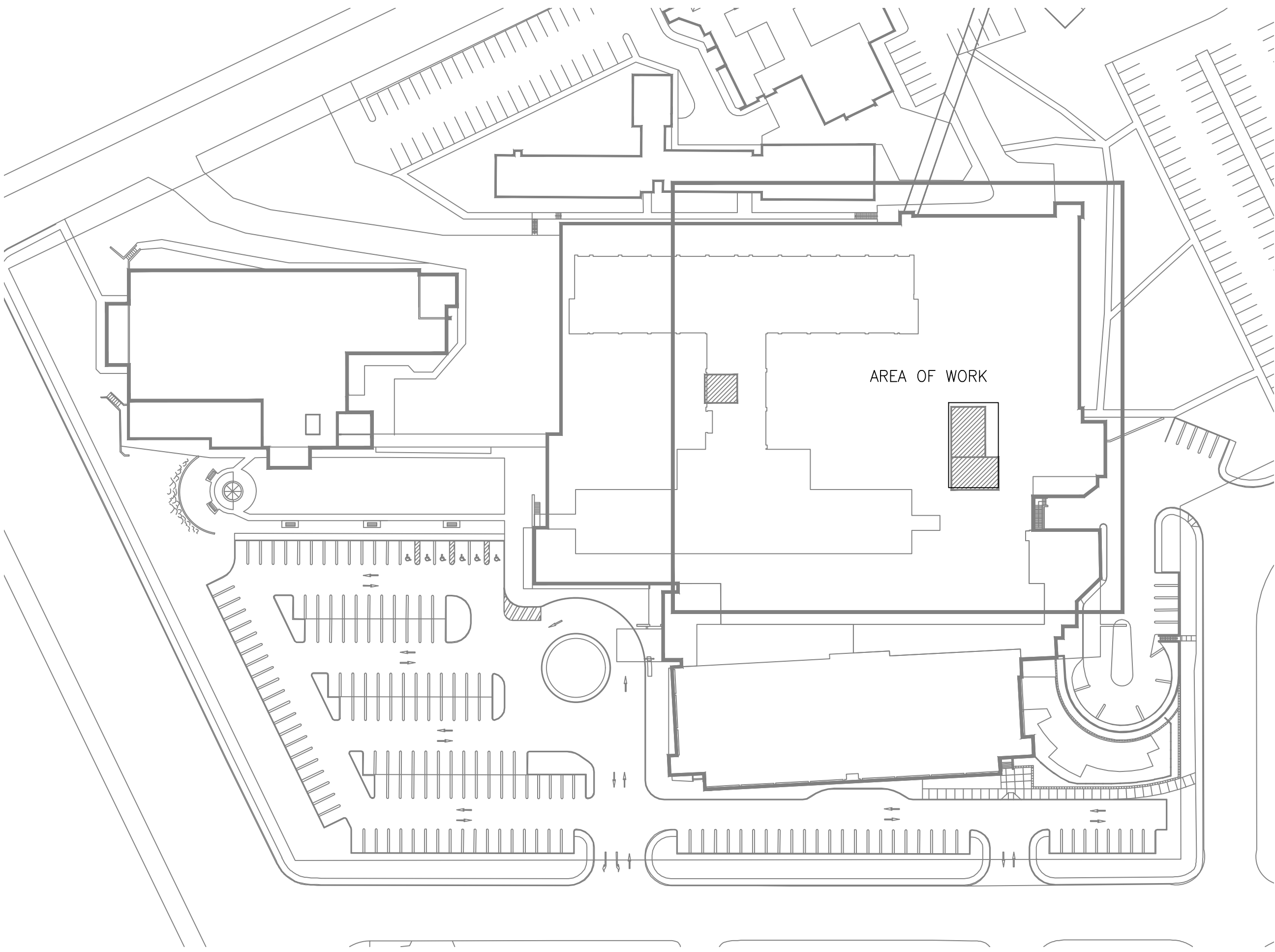
BUILDING CODE
BC BUILDING CODE 2018

FIRE PROTECTION
BUILDING IS SPRINKLERED TO THE REQUIREMENTS OF NFPA 13-2013

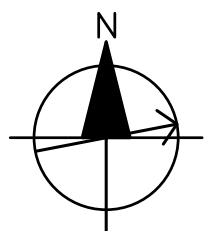
CIVIC ADDRESS
1475 EDMONTON STREET, PRINCE GEORGE, BC V2M 1S2

DRAWING LIST		
DWG NO.	DRAWING NAME	SCALE
M0.000	COVERPAGE	NTS
M1.100	LEVEL 0 EXISTING SANITARY DEMO PLAN	1 : 50
M1.101	LEVEL 1 EXISTING PLUMBING DEMO PLAN	1 : 50
M1.102	LEVEL 1 EXISTING MEDICAL GAS DEMO PLAN	1 : 50
M1.200	LEVEL 1 EXISTING MECHANICAL DEMO PLAN	1 : 50
M1.201	LEVEL 1 EXISTING MECHANICAL DEMO PLAN - PORTER/RAD/CONTROL ROOM	1 : 50
M1.301	LEVEL 1 FIRE SUPPRESSION DEMO PLAN - PORTER/RAD/CONTROL ROOM	1 : 50
M2.100	LEVEL 0 SANITARY PLAN	1 : 50
M2.101	LEVEL 1 PLUMBING PLAN	1 : 50
M2.102	LEVEL 1 MEDICAL GAS PLAN	1 : 50
M2.200	LEVEL 1 MECHANICAL PLAN	1 : 50
M2.201	LEVEL 1 MECHANICAL PLAN - PORTER/RAD/CONTROL ROOM	1 : 50
M2.202	LEVEL 1 MECHANICAL PLAN - PORTER/RAD/CONTROL ROOM	1 : 50
M2.300	LEVEL 1 FIRE SUPPRESSION PLAN	1 : 50
M2.301	LEVEL 1 FIRE SUPPRESSION PLAN - PORTER/RAD/CONTROL ROOM	1 : 50
M4.200	DETAILS	NTS
M4.201	DETAILS	NTS
M5.100	SCHEDULES	NTS
M5.201	SPECIFICATIONS	NTS
M5.202	SPECIFICATIONS	NTS
M5.203	SPECIFICATIONS	NTS

GENERAL NOTES		
1. THE MECHANICAL SYSTEM SHALL CONSIST OF ALL THE WORK SHOWN ON DRAWINGS, SCHEMATICS, AND AS DESCRIBED IN SPECIFICATIONS.	COORDINATE DAMPER ACCESS WITH ARCHITECT.	ARCHITECTURAL DRAWINGS.
2. INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, EXCEPT WHERE CONFLICT OCCURS WITH REQUIREMENTS LISTED UNDER SPECIFICATION (VIBRATION ISOLATION).	11. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL DIFFUSERS AND GRILLES.	20. TRAP PRIMERS ARE REQUIRED ON ALL FLOOR DRAIN TRAPS UNLESS OTHERWISE NOTED. NOTE THAT THE PIPING AND TRAP PRIMERS ARE NOT SHOWN ON DRAWINGS AND ARE TO BE FIELD ROUTED ONSITE BY MECHANICAL CONTRACTOR.
3. THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE, AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.	12. CONTRACTOR TO PROVIDE A SIMILAR TYPE DUCT CONSTRUCTION FOR ALL EXPOSED APPLICATIONS (I.E. NO LONGITUDINAL SEAM AND SPIRAL SEAM IN EXPOSED APPLICATIONS). FLANGE TYPE DUCT CONNECTIONS FOR EXPOSED AREAS IS PROHIBITED UNLESS OTHERWISE NOTED. CONTRACTOR TO REFER TO SPECIFICATIONS FOR TYPE OF DUCT CONSTRUCTION ALLOWED.	21. INSULATE DUCT PLENUMS FOR OUTSIDE AIR, RETURN AIR AND EXHAUST AIR. FOR ALL OTHER DUCTWORK INSULATION REFER TO SPECIFICATIONS.
4. ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.	13. PROVIDE CONCEALED DAMPER REGULATORS FOR ALL VOLUME DAMPERS OVER INACCESSIBLE CEILINGS AND SOFFITS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.	22. REFER TO MECHANICAL DETAILS FOR ADDITIONAL ACOUSTICAL AND THERMAL INSULATION REQUIREMENTS FOR DUCT AND EQUIPMENT.
5. COORDINATE WITH SPECIFICATION. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE STRINGENT SHALL APPLY.	14. PROVIDE TRANSITIONS AND FLEXIBLE CONNECTORS AS REQUIRED TO CONNECT DUCTWORK TO FANS AND OTHER MECHANICAL EQUIPMENT.	23. SEISMIC RESTRAINTS FOR ALL EQUIPMENT AND PIPING SHALL BE COVERED BY MECHANICAL CONTRACTOR.
6. PROVIDE ELECTRICAL CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCE FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL AS REQUIRED.	15. PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE. COORDINATE DIFFUSER AND GRILLE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.	24. SEISMIC ENGINEER SHALL BE RETAINED UNDER THE MECHANICAL CONTRACTOR'S SCOPE OF WORK TO ENSURE SEISMIC INSTALLATIONS ARE INSTALLED IN ACCORDANCE WITH CODE. SEISMIC INSTALLATION SHALL BE APPROVED BY A CERTIFIED SEISMIC ENGINEER AND PROVIDE SIGNED SEALED SHOP DRAWINGS TO THAT EFFECT.
7. COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK OF THIS CONTRACTOR. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.	16. COORDINATE EXACT LOCATIONS OF ALL ROOM THERMOSTATS AND/OR ROOM TEMPERATURE SENSORS WITH ARCHITECT PRIOR TO INSTALLATION.	25. WHEREVER POSSIBLE, ALL PIPING TO BE RUN AS HIGH AS POSSIBLE TO PROVIDE SUFFICIENT CLEARANCE FOR DUCTWORK.
8. MECHANICAL EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION.	17. PROVIDE VOLUME DAMPER FOR EACH SUPPLY, RETURN AND EXHAUST OPENING. PROVIDE BALANCING DAMPER IN BRANCHES WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH AND ELSEWHERE AS NOTED ON THE DRAWINGS AND SPECIFICATIONS.	26. UNLESS NOTED OTHERWISE, ALL SANITARY AND STORM DRAINS OF SIZES 3 INCHES (75 MM) AND SMALL SHALL BE SLOPED TO 2%, AND DRAINS OF SIZES 4 INCHES (100MM) AND LARGER TO BE SLOPED AT 1%.
9. ALL DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. ADD APPROPRIATE DIMENSION FOR INSULATION OR DUCT LINER TO OBTAIN "TOTAL" DUCT SIZE.	18. PROVIDE 1" THICK FIBRE FREE DUCT LINER IN ALL TRANSFER DUCTWORK UNLESS NOTED OTHERWISE.	27. PROVIDE CONDENSATE DRAIN LINE FOR ALL COOLING EQUIPMENT TO NEAREST DRAIN.
10. INSTALL DYNAMIC FIRE DAMPERS AT ALL LOCATIONS WHERE DUCTS PENETRATE FIRE RATED WALLS OR OCCUPANCY SEPARATION WALLS. DAMPER FIRE RATING SHALL BE 1-1/2 HOUR UNLESS NOTED OTHERWISE.	19. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES WITH CASEWORK AND	



1 SITE PLAN
M0.000 SCALE: NTS



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4	ISSUED FOR 80% CD	2021.05.20	JL
3	ISSUED FOR BP	2021.05.06	JL
2	ISSUED FOR BP REVIEW	2021.04.28	JL
1	ISSUED FOR DD	2021.04.09	JL

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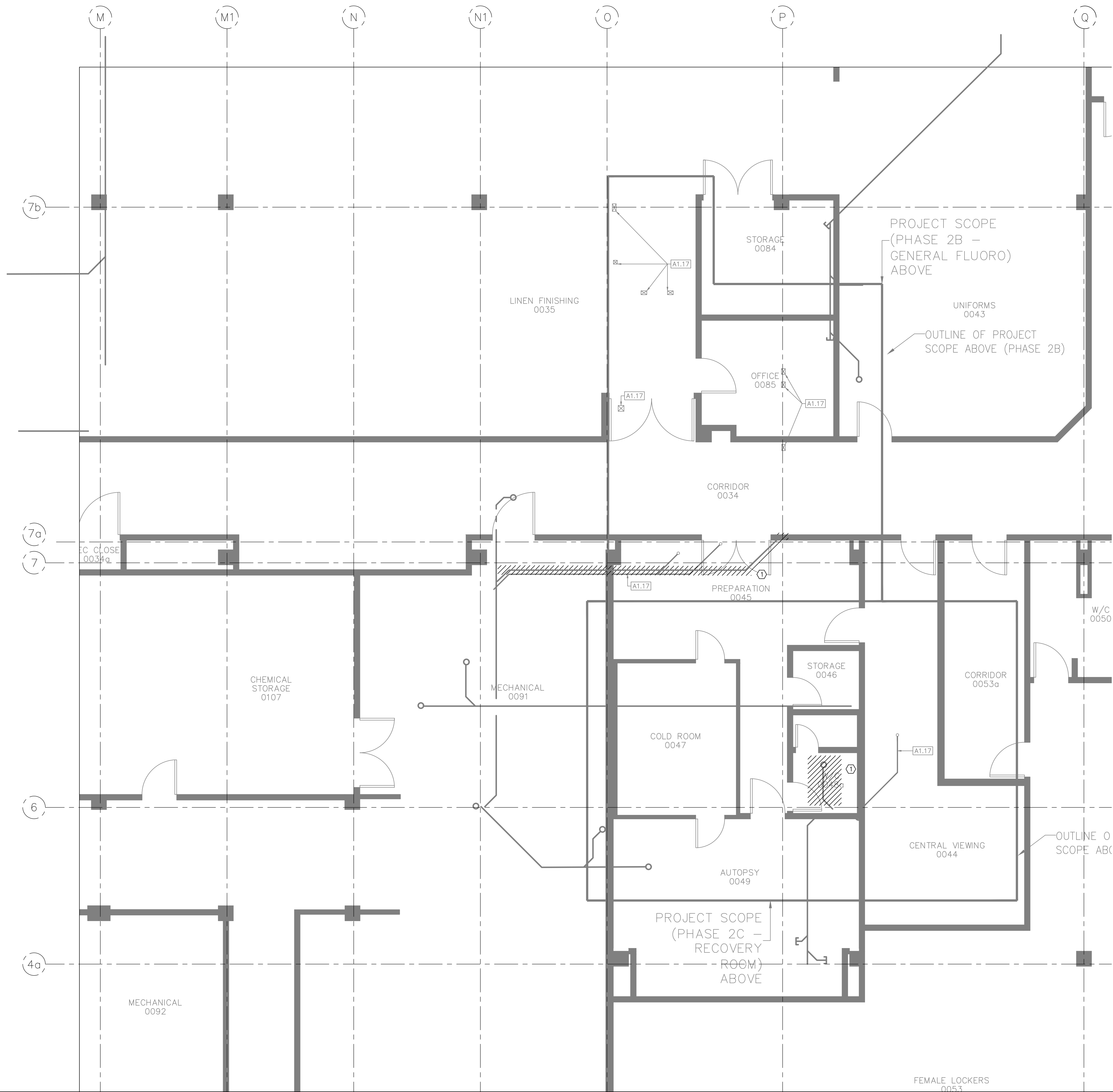
COVERPAGE

PHASE 2

SCALE:

DATE:
OCT 15 2021
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JL
JOB No.:
20_002

M0.000



DRAWING NOTES

① EXISTING SANITARY MAIN TO BE REMOVED AND CAPPED BACK AT MAIN.

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LEVEL 0 EXISTING SANITARY PLAN PHASE 2

SCALE:

1 : 50

DATE:

OCT 15 2021

DRAWN:

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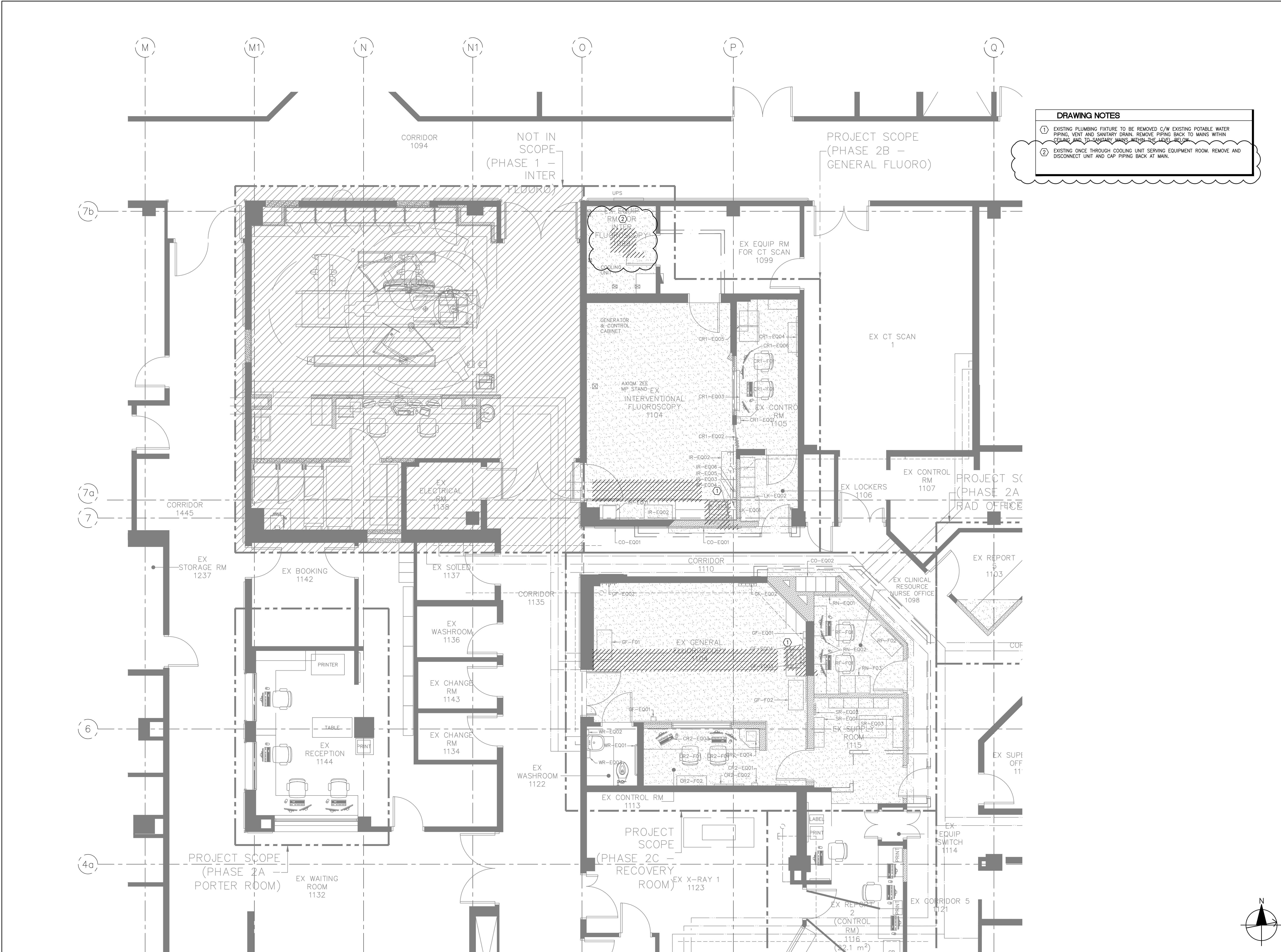
CHECKED:

JL

JOB No:

20_002

M1.100



- DRAWING NOTES
- 1

EXISTING PLUMBING FIXTURE TO BE REMOVED C/W EXISTING POTABLE WATER PIPING, VENT AND SANITARY DRAIN. REMOVE PIPING BACK TO MAINS WITHIN CEILING AND TO SANITARY MAINS WITHIN THE LEVEL BELOW.
- 2

EXISTING ONCE THROUGH COOLING UNIT SERVING EQUIPMENT ROOM. REMOVE AND DISCONNECT UNIT AND CAP PIPING BACK AT MAIN.

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LEVEL 1 EXISTING
PLUMBING PLAN

PHASE 2

SCALE:
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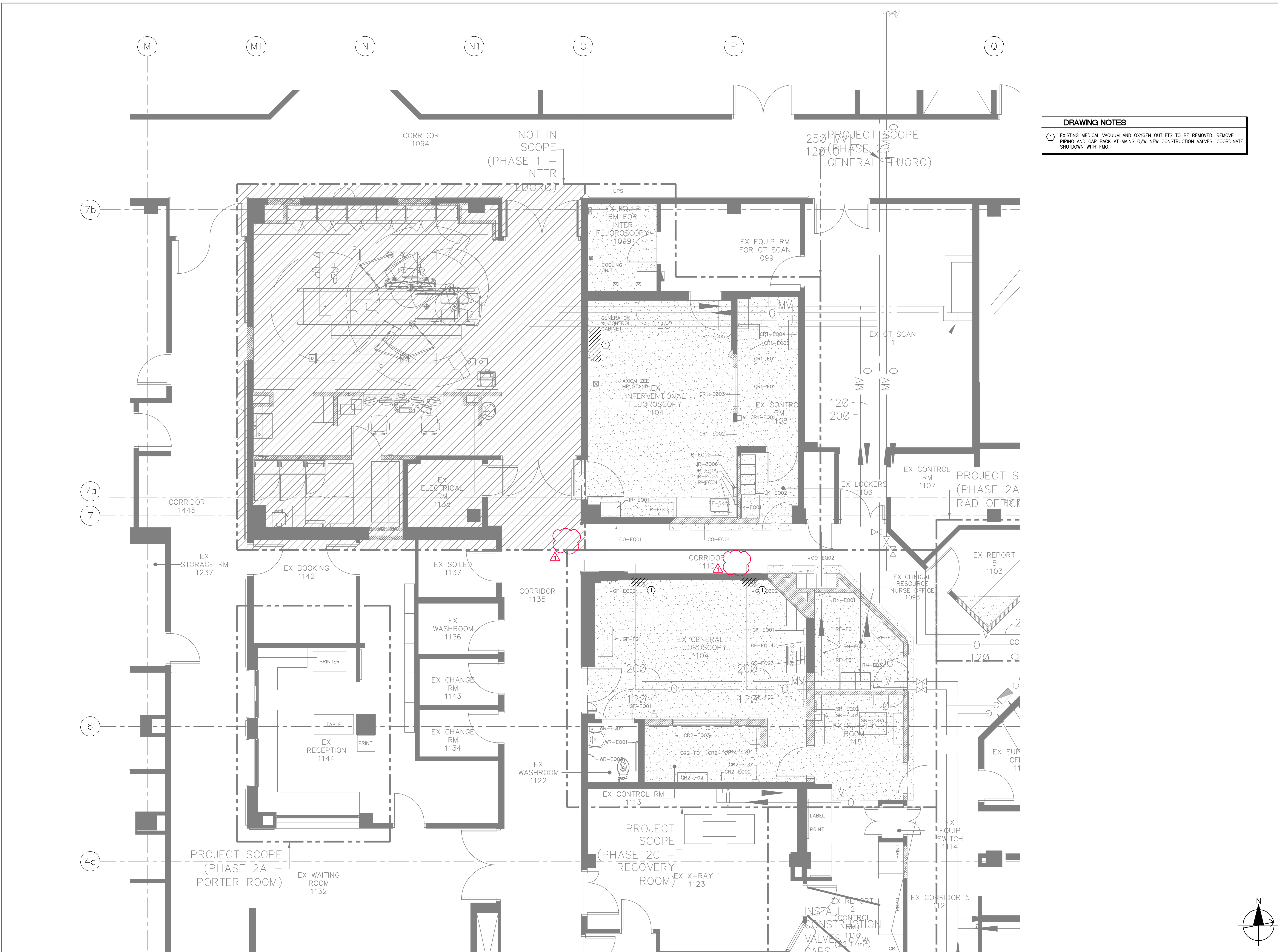
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20_002

M1.101



DRAWING NOTES

① EXISTING MEDICAL VACUUM AND OXYGEN OUTLETS TO BE REMOVED. REMOVE PIPING AND CAP BACK AT MAINS C/W NEW CONSTRUCTION VALVES. COORDINATE SHUTDOWN WITH FMO.

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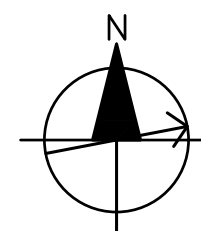


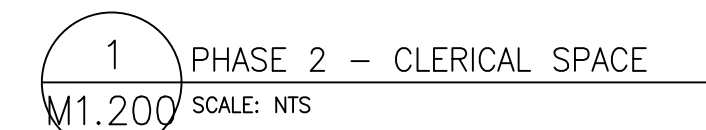
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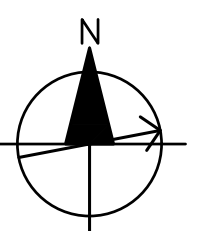
LEVEL 1 EXISTING MEDICAL GAS PLAN PHASE 2

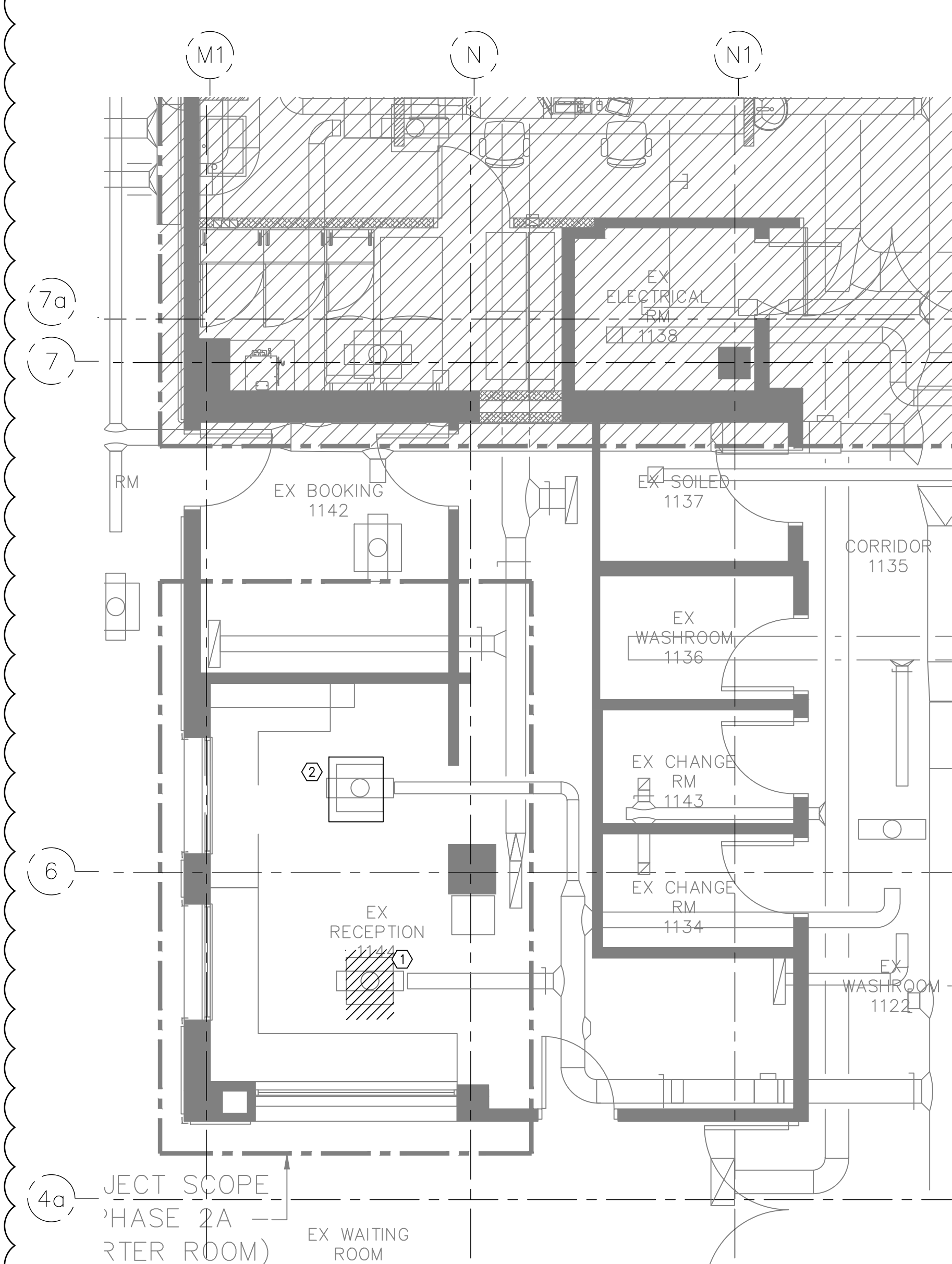
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DATE: OCT 15 2021
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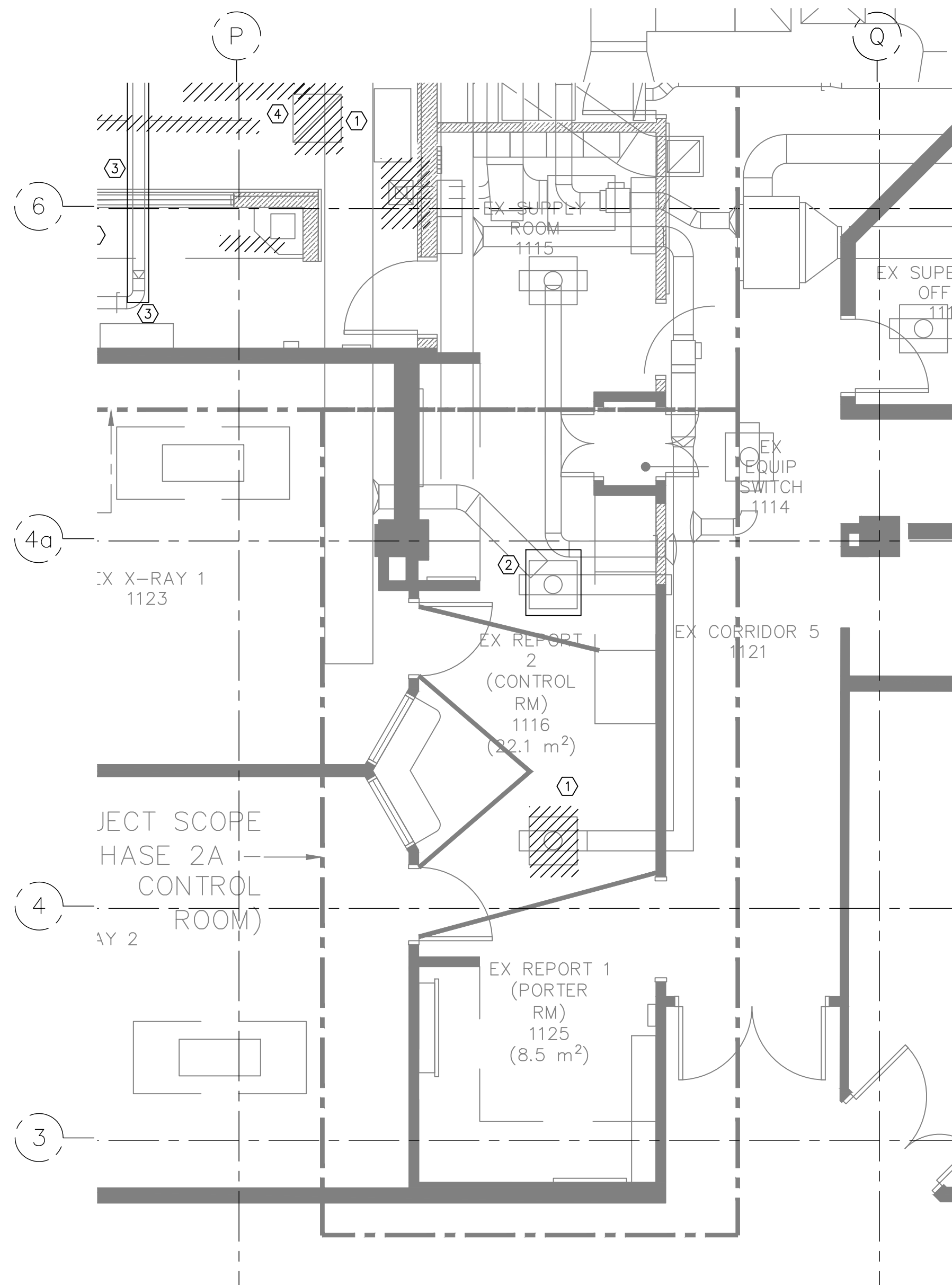


M1.200

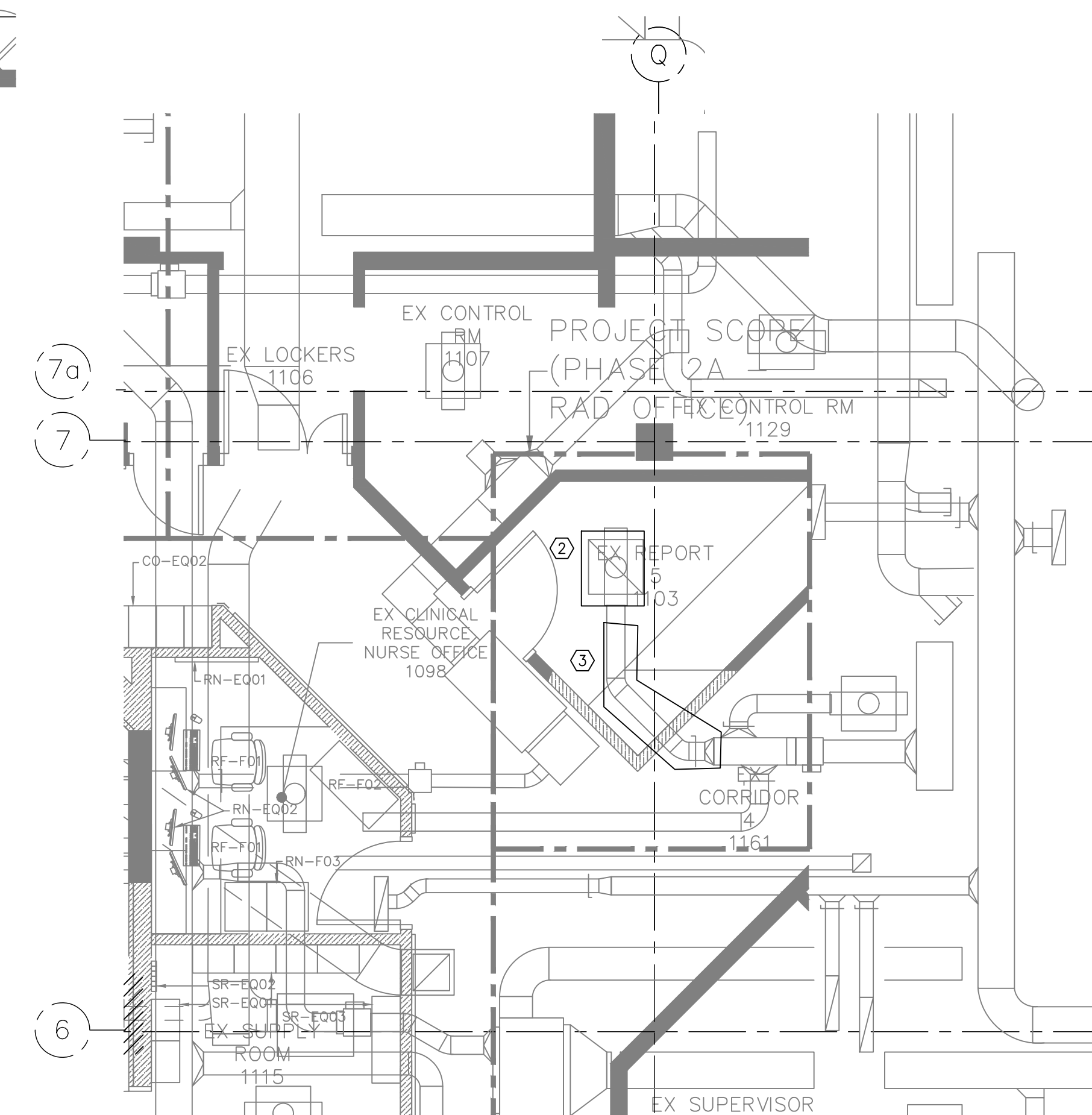




1 PHASE 2A - PORTER ROOM
M1.201 SCALE: NTS



1 PHASE 2A - RAD OFFICE
M1.201 SCALE: NTS



1 PHASE 2A - CONTROL ROOM
M1.201 SCALE: NTS

- DRAWING NOTES**
- EXISTING DIFFUSER TO BE RELOCATED AND REPLACED WITH NEW.
 - EXISTING DIFFUSER TO BE REPLACED WITH NEW
 - EXISTING DUCT BRANCH TO BE UPSIZED, REFER TO NEW PLANS

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LEVEL 1 EXISTING
MECHANICAL PLAN
PHASE 2

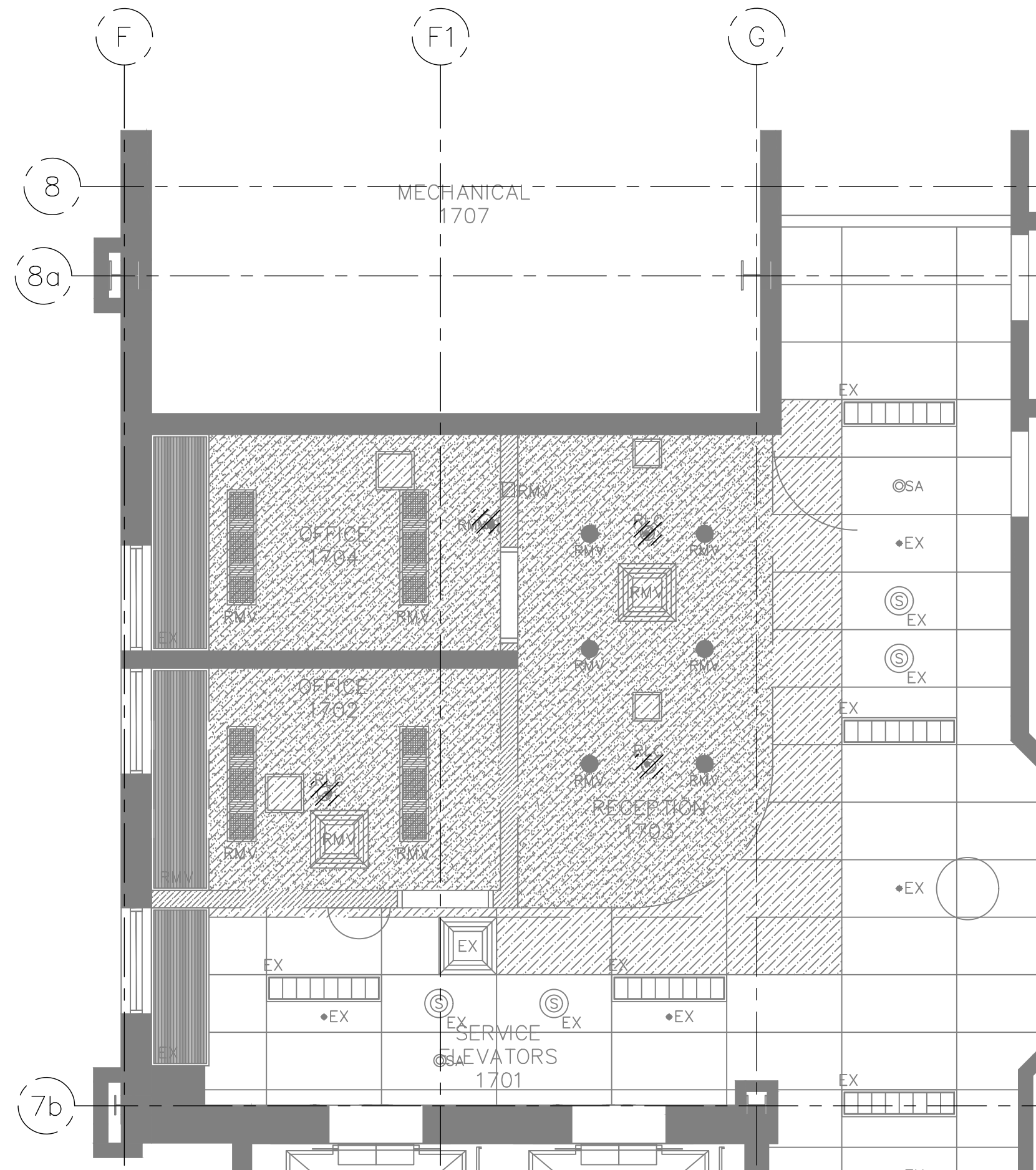
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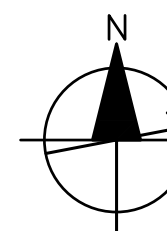
1 PHASE 2 - GENERAL FLURO AND RECOVERY
M1.300 SCALE: NTS

DRAWING NOTES

① REMOVE ALL SPRINKLER PENDANTS, PIPING, MAINS, AND BRANCHES WITHIN RENOVATION AREA. REFER TO NEW PLANS FOR NEW PENDANT LAYOUTS. COORDINATE NEW SPRINKLER PIPING WITH NEW STRUCTURAL SUPPORTS FOR IMAGING EQUIPMENT.



1 PHASE 2 - CLERICAL SPACE
M1.300 SCALE: NTS



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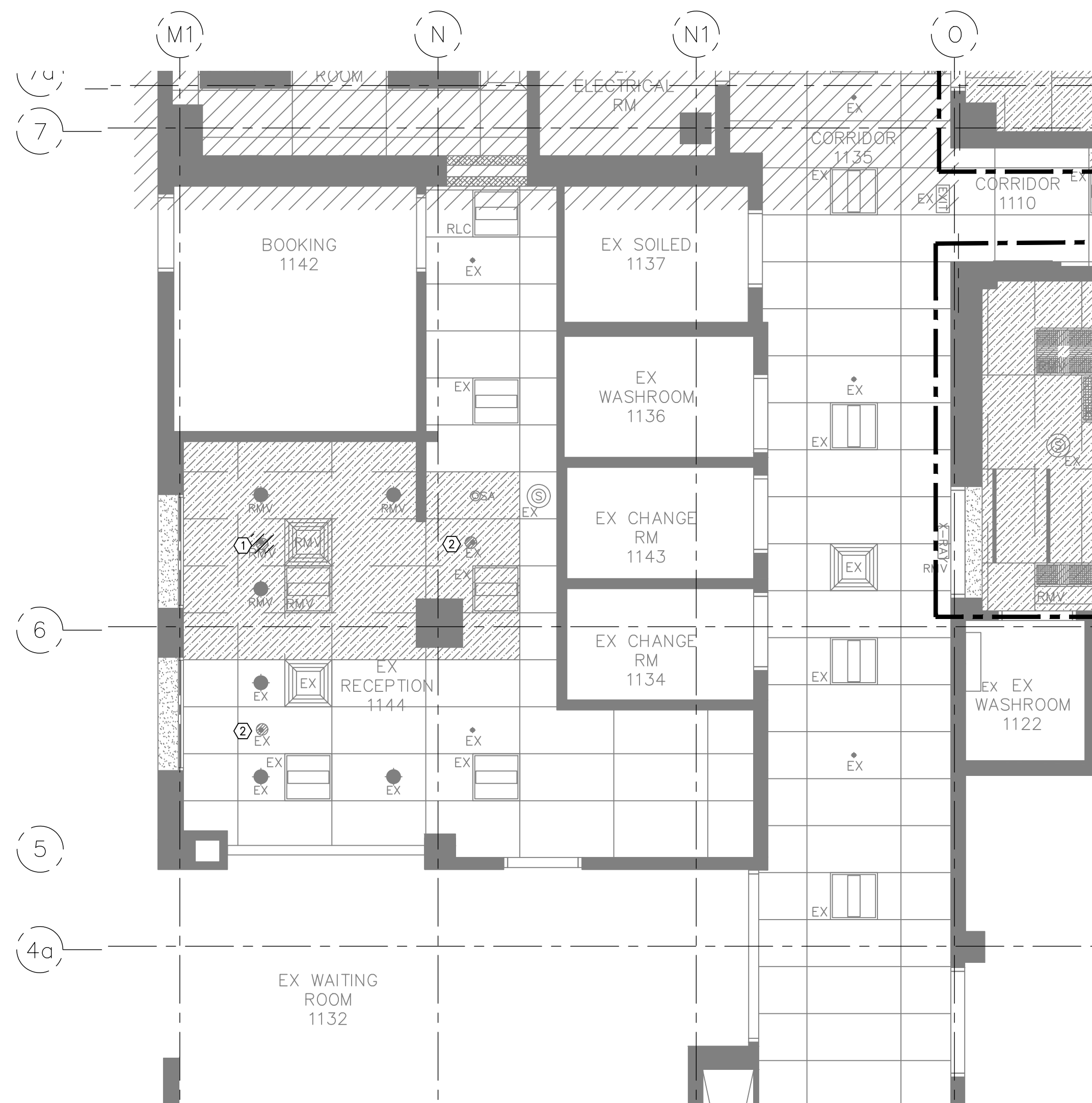


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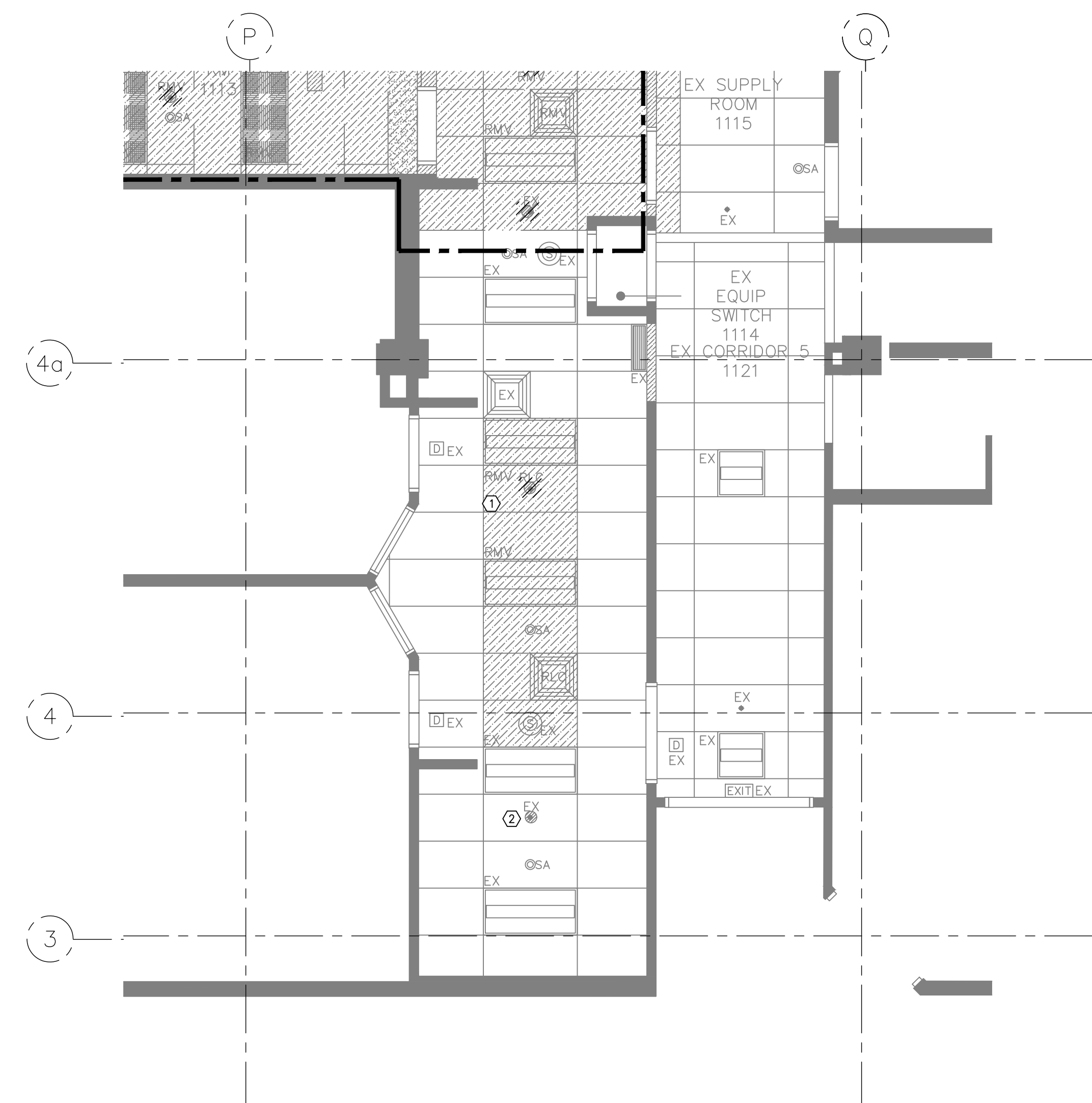
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LEVEL 1 EXISTING FIRE
SUPPRESSION PLAN
PHASE 2

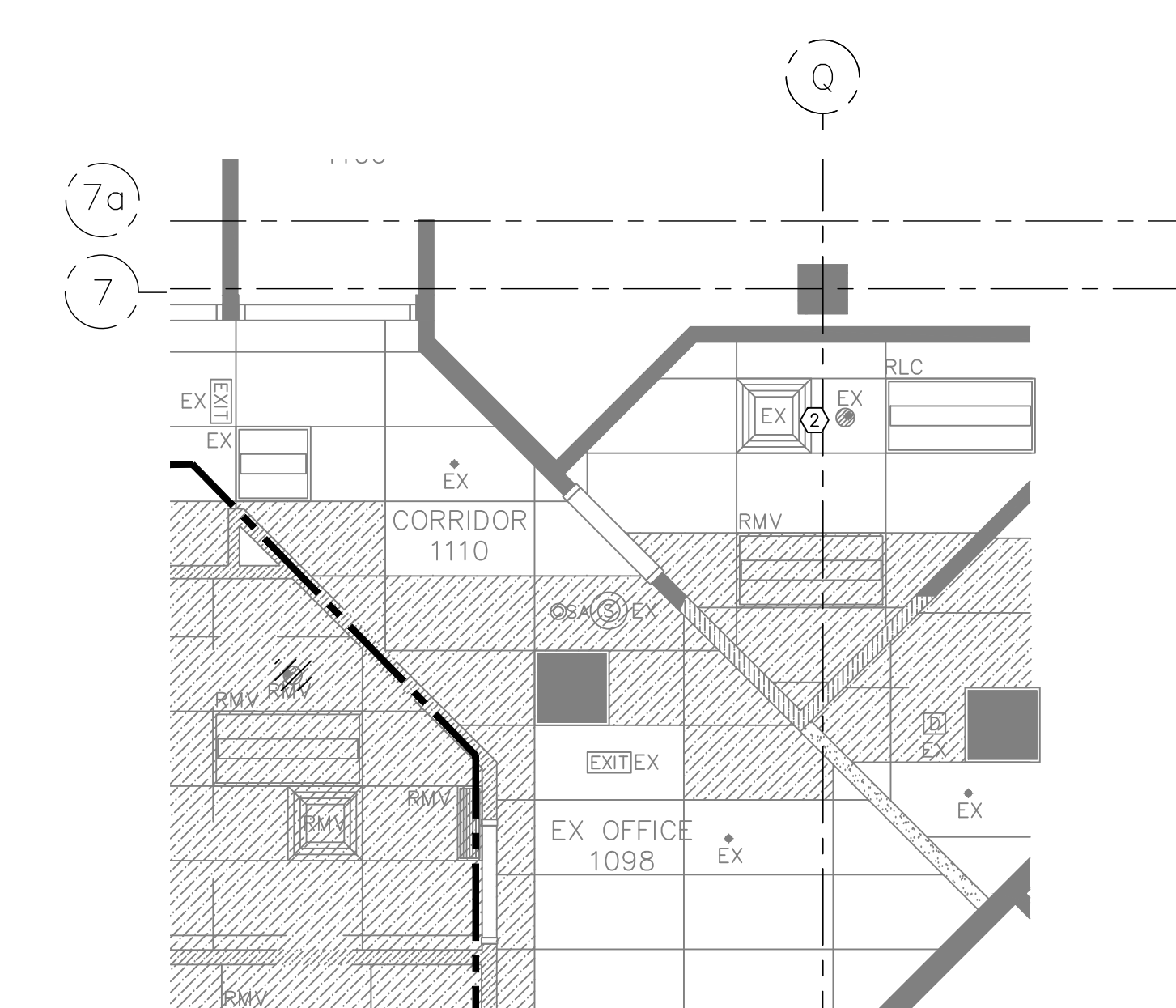
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20_002



1 PHASE 2A - PORTER ROOM
M1.301 SCALE: NTS



1 PHASE 2A - RAD OFFICE
M1.301 SCALE: NTS



1 PHASE 2A - CONTROL ROOM
M1.301 SCALE: NTS

- DRAWING NOTES**
- ① EXISTING PENDANT TO BE REMOVED.
 - ② EXISTING SPRINKLER PENDANT TO REMAIN

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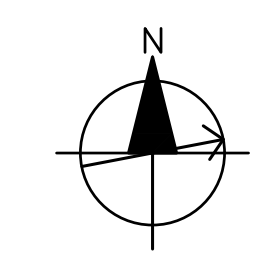
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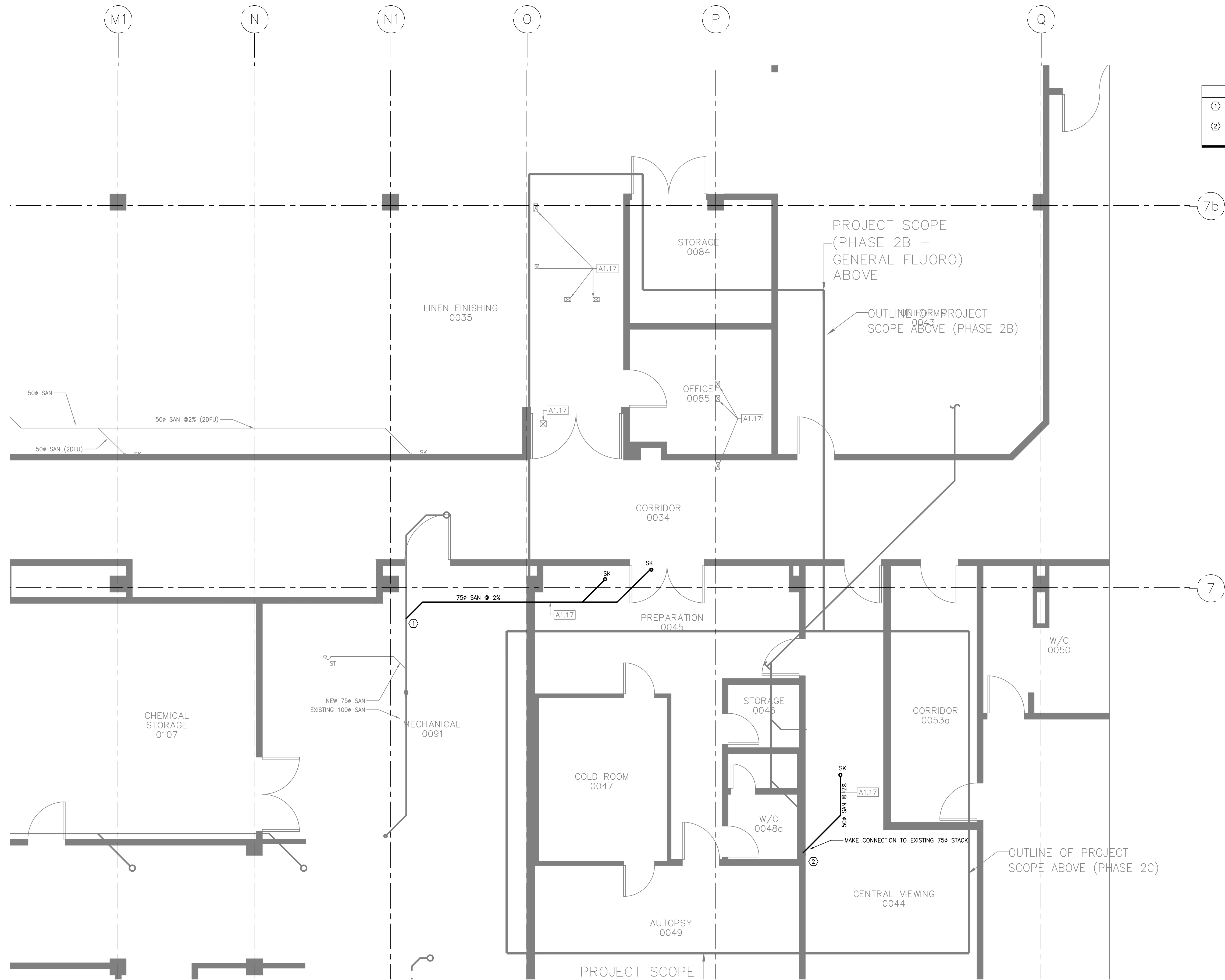
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**LEVEL 1 EXISTING FIRE
SUPPRESSION PLAN**
PHASE 2

SCALE:
1 : 50
DATE:
OCT 15 2021
DRAWN:
KM
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JL
JOB No.:
20_002

M1.301





- DRAWING NOTES**
- ① PROVIDE AND INSTALL NEW 75# SANITARY PIPING FOR NEW PLUMBING FIXTURE ABOVE. MAKE CONNECTION TO EXISTING 100# MAIN.
 - ② PROVIDE AND INSTALL NEW 50# SANITARY SERVING FIXTURE ABOVE AND MAKE CONNECTION TO EXISTING 75# SANITARY STACK WITHIN WALL.

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LEVEL 0 SANITARY PLAN

PHASE 2

SCALE:

1 : 5.0

DATE:

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DRAWN:

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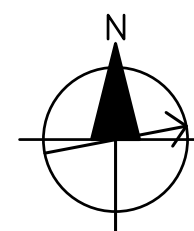
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M2.100



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DRAWING NOTES

- 1 PROVIDE AND INSTALL NEW DISS MEDICAL OUTLETS. 3 VACUUM, 1 OXYGEN, 1 AIR, 1 NITROUS, AND 1 SCAVENGING OUTLETS AS PER CSA Z3976.1-12. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF MED GAS OUTLETS.
- 2 PROVIDE AND INSTALL NEW 20" MEDICAL VACUUM AND 12" MEDICAL OXYGEN CONSTRUCTION VALVES. MAKE CONNECTION TO EXISTING MEDICAL GAS PIPING. COORDINATE SHUTDOWNS WITH FMO.
- 3 HEADWALL UNIT. REFER TO ARCHITECTURAL PLAN FOR DETAILS. 1 VACUUM, AND 1 OXYGEN OUTLET. RUN PIPE DOWN WALL AND INTO SERVICE CHASE OF THE HEADWALL UNIT. PROVIDE ISOLATION VALVE ABOVE CEILING. INSTALLATION TO BE AS PER CSA Z3976.1-12.
- 4 PROVIDE AND INSTALL NEW DISS MEDICAL OUTLETS. 1 VACUUM, 1 OXYGEN, 1 AIR, 1 NITROUS, AND 1 SCAVENGING OUTLETS AS PER CSA Z3976.1-12.REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF MED GAS OUTLETS.
- 5 PROVIDE AND INSTALL NEW 12" MEDICAL AIR, 12" NITROUS AND 25" SCAVENGING. MAKE CONNECTION TO EXISTING MEDICAL GAS PIPING. COORDINATE SHUTDOWNS WITH FMO.

No.	REVISION	DATE	BY
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2	ISSUED FOR BP REVIEW	2021.04.28	JL
1	ISSUED FOR DD	2021.04.09	JL

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UHNBC FLUOROSCOPY REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

LEVEL 1 MEDICAL GAS PLAN PHASE 2

SCALE:

1: 50

DATE:

OCT 15 2021

DRAWN:

KM

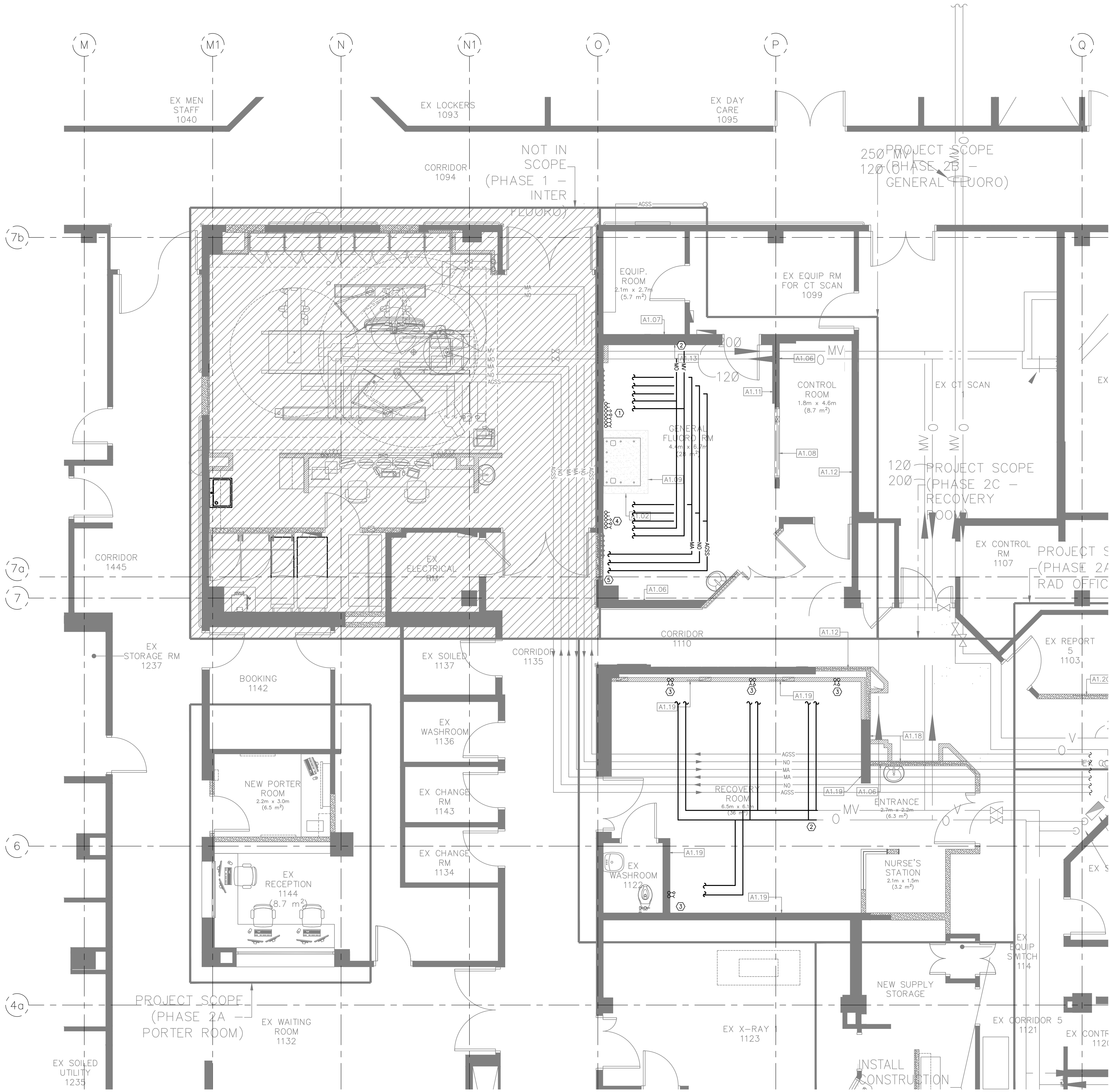
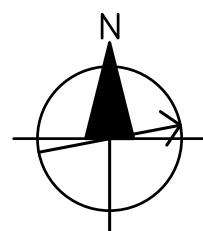
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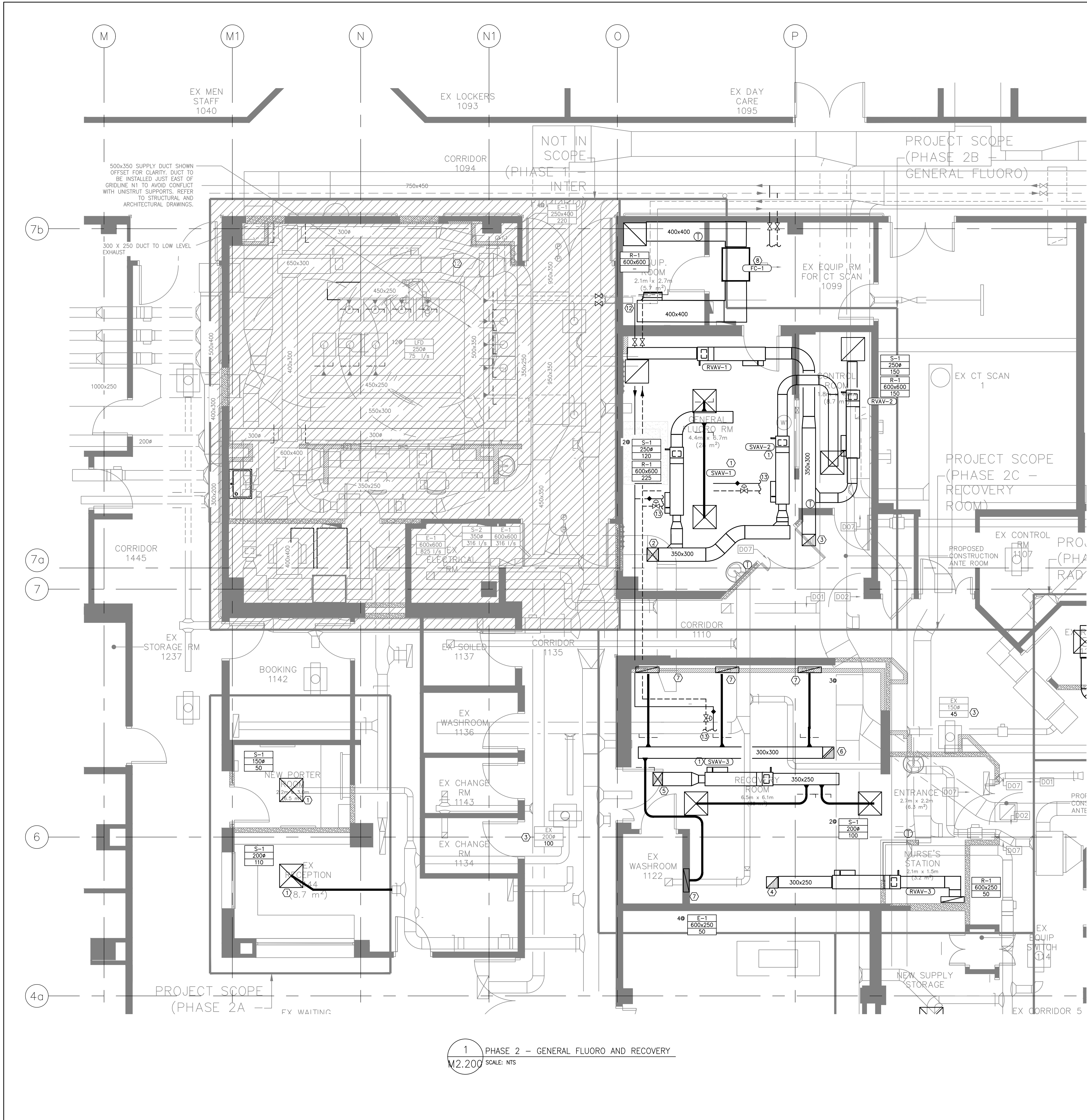
JL

JOB No.:

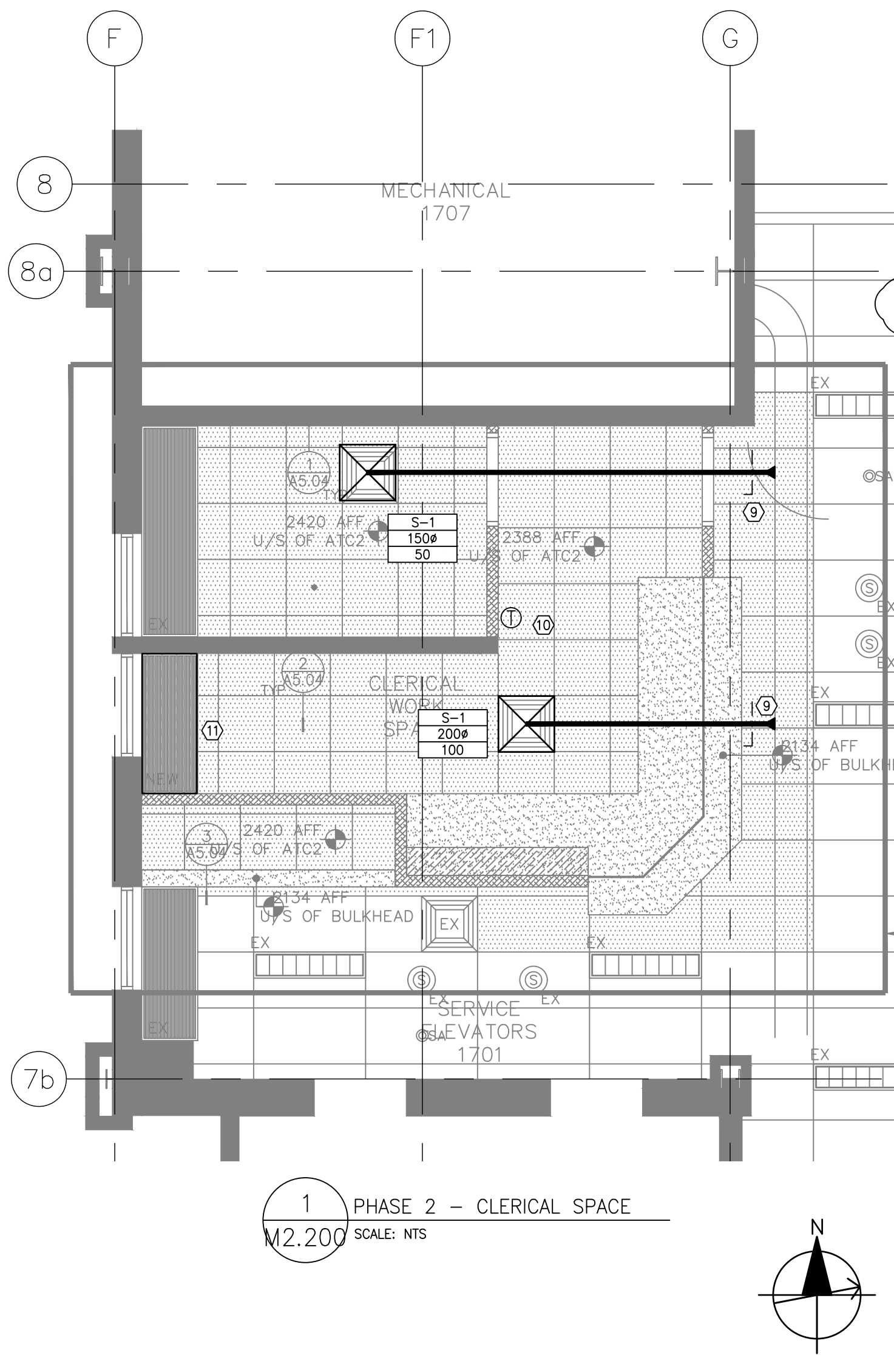
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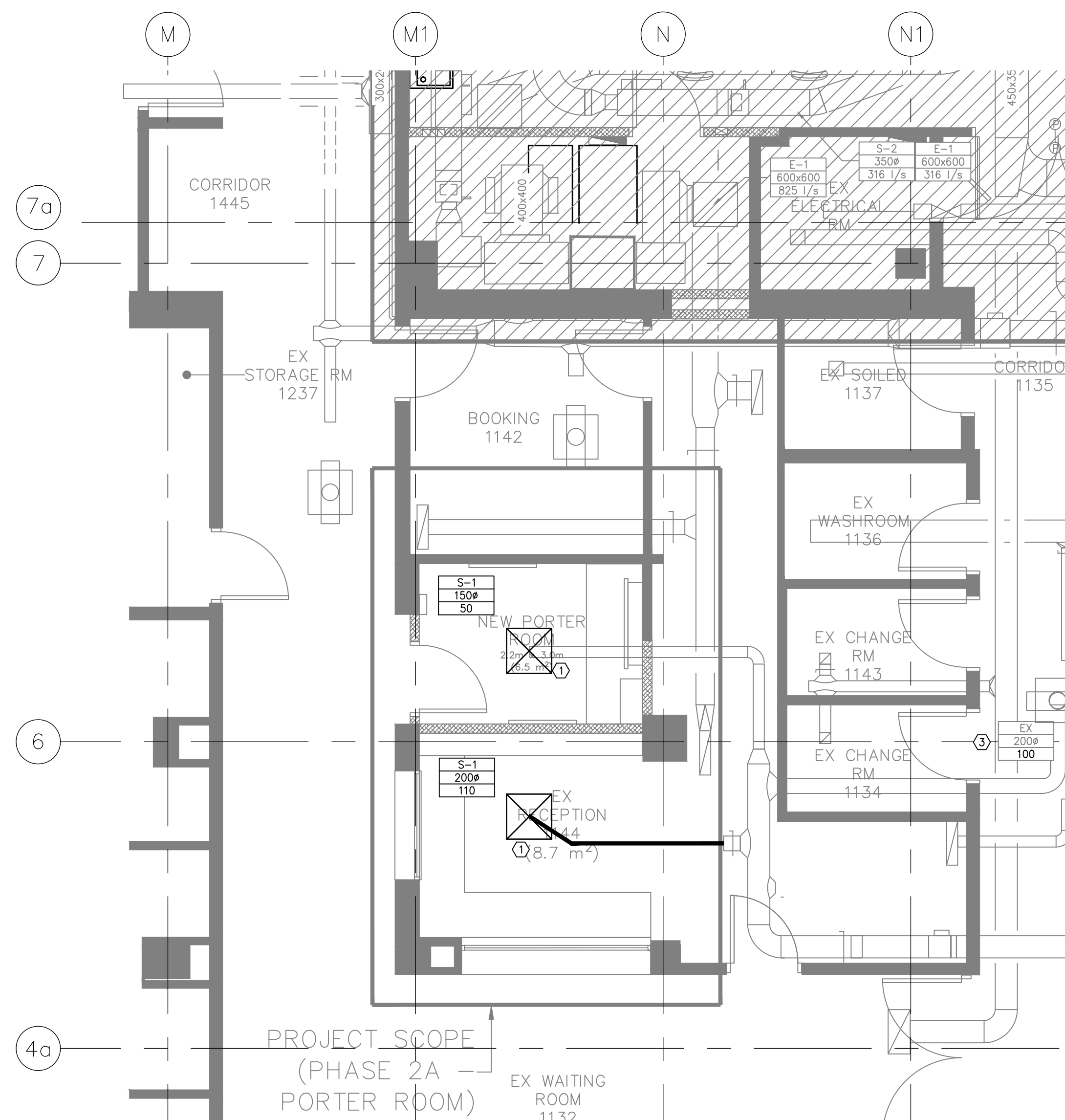
M2.102



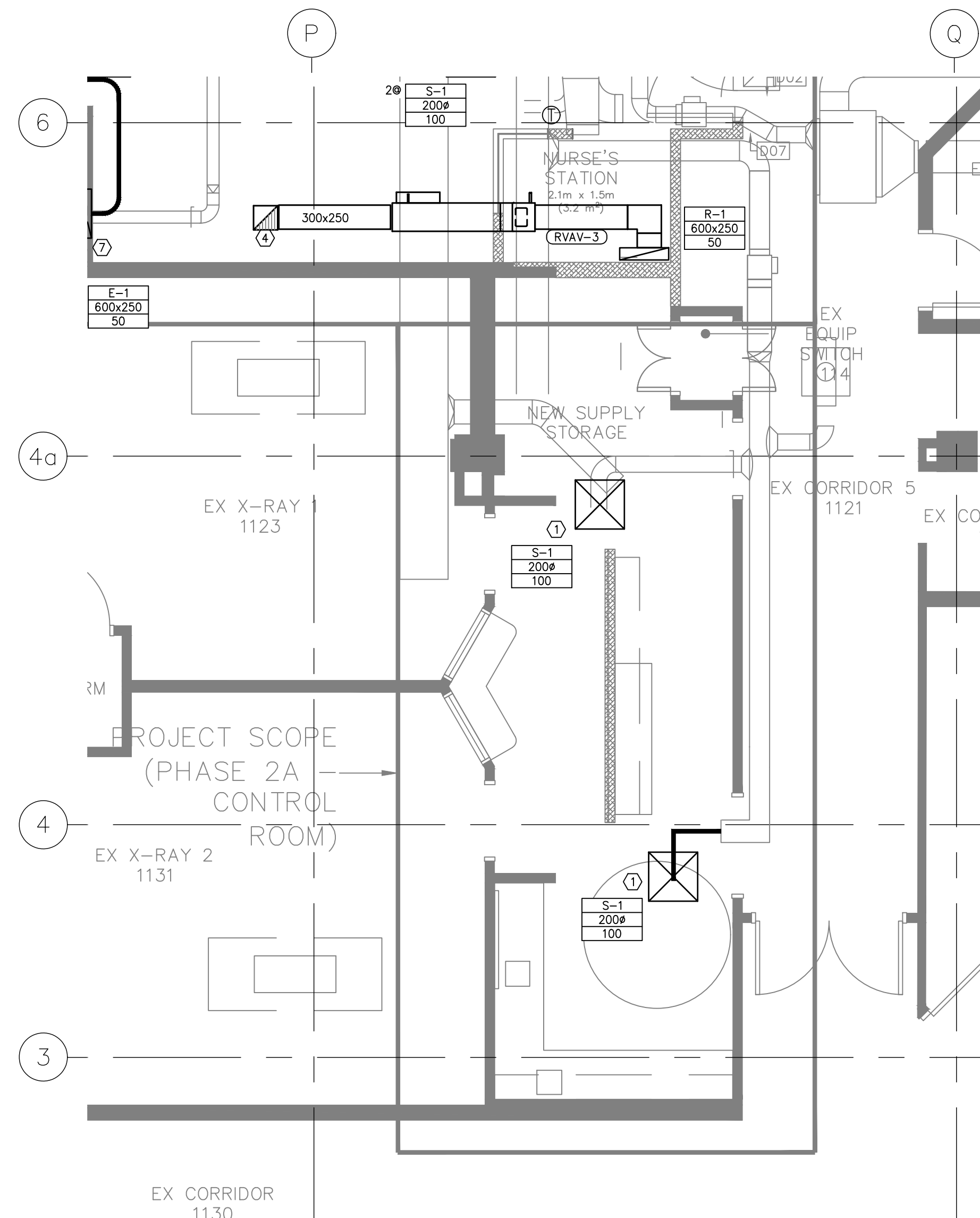


- DRAWING NOTES**
- 1 PROVIDE AND INSTALL NEW VAV BOX C/W REHEAT COIL, AND FIBRE FREE ATTENUATOR. MAKE CONNECTION OF REHEAT COIL TO EXISTING 50# HWS/R PIPING IN CORRIDOR C/W NEW CONTROL VALVE.
 - 2 NEW 350x300 S/A DUCT TO ROOF TOP ABOVE.
 - 3 NEW 350x300 R/A DUCT TO ROOF TOP ABOVE.
 - 4 NEW 300x250 R/A DUCT TO ABOVE.
 - 5 NEW 350x250 S/A FROM ABOVE.
 - 6 NEW 300x250 E/A TO ROOF TOP FAN ABOVE.
 - 7 NEW LOW LEVEL STAINLESS STEEL EXHAUST GRILLE. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION. PROVIDE 300x100 DUCT DOWN WALL TO LOW LEVEL GRILLE.
 - 8 PROVIDE AND INSTALL NEW CHILLED WATER FAN COIL C/W FLEXIBLE CONNECTOR, THERMOSTAT, SEISMIC RESTRAINT, VIBRATION ISOLATOR. MAKE CONNECTION OF NEW 25# CHWS/R TO EXISTING 75# CHWS/R MAIN WITHIN CORRIDOR. FAN COIL CONNECTION C/W 3 WAY VALVE, AND BALANCING VALVE.
 - 9 MAKE CONNECTION OF NEW DUCT BRANCH TO EXISTING DUCT MAIN.
 - 10 RELOCATED THERMOSTAT. RECONNECT TO EXISTING VAV BOX.
 - 11 EXISTING RADIANT PANEL TO BE REMOVED AND REPLACED WITH SHORTER PANEL TO SUIT NEW LAYOUT. RECONNECT HYDRONIC PIPING. MAKE GOOD.
 - 12 MAKE CONNECTION OF NEW 25# HWS/R PIPING TO EXISTING 50# HWS/R MAIN C/W ISOLATION VALVES.
 - 13 PROVIDE 18# HWS/R PIPING TO VAV REHEAT COIL C/W CONTROL VALVE, BALANCING VALVE AND ISOLATION VALVES. REFER TO DETAILS FOR VAV COIL CONNECTION.

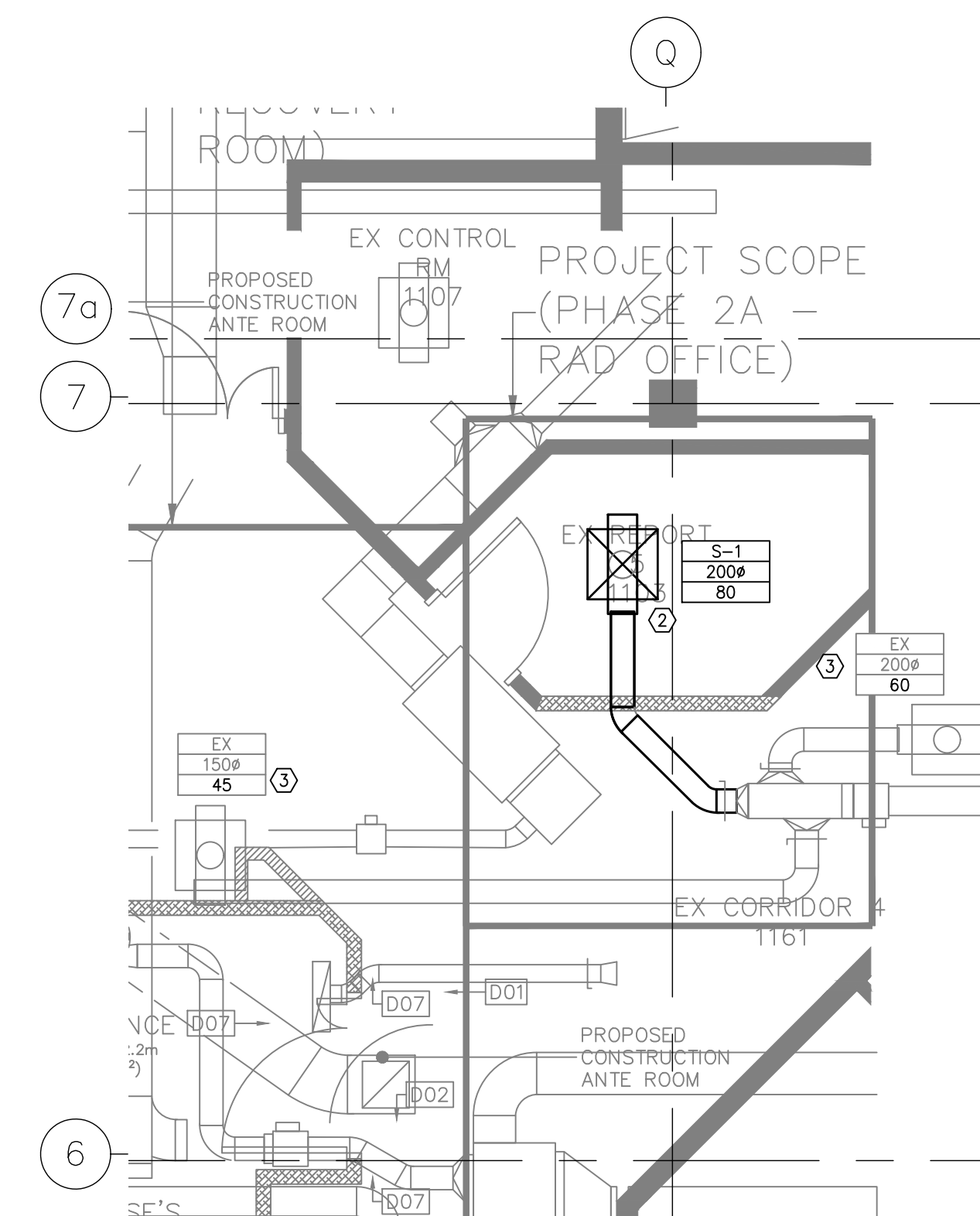




1 PHASE 2A - PORTER ROOM
M2.201 SCALE: NTS



1 PHASE 2A - RAD OFFICE
M2.201 SCALE: NTS



1 PHASE 2A - CONTROL ROOM
M2.201 SCALE: NTS

- DRAWING NOTES**
- 1 PROVIDE AND INSTALL NEW DIFFUSER AND MAKE CONNECTION TO EXISTING DUCT. REBALANCE AIRFLOWS INCLUDING EXISTING VAV BOX.
 - 2 PROVIDE AND INSTALL NEW SUPPLY DIFFUSER C/W NEW LARGER DUCT BRANCH. REBALANCE AIRFLOWS AS SHOWN INCLUDING EXISTING VAV BOX
 - 3 REBALANCE AIRFLOWS AS SHOWN.

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5	ISSUED FOR TENDER	2021.06.04	JL
4	ISSUED FOR 80% CD	2021.05.20	JL
3	ISSUED FOR BP	2021.05.06	JL
2	ISSUED FOR BP REVIEW	2021.04.28	JL
1	ISSUED FOR DD	2021.04.09	JL

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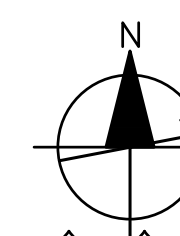
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REPLACEMENT

1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

LEVEL 1 MECHANICAL
PLAN

PHASE 2

SCALE:
1:50
DATE:
OCT 15 2021
DRAWN:
KM M2.201
CHECKED:
JL
JOB No.:
20-002





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DRAWING NOTES

- ① PROVIDE AND INSTALL NEW ROOF TOP DUCTWORK C/W 25MM THICK FIBRE FREE ACROUSTIC LINER AND R-12 (IP) EXTERNAL INSULATION WRAP C/W ALUMINUM CLADDING AND ROOF DUCT SUPPORTS.
- ② 350x300 SUPPLY DUCT DOWN TO BELOW.
- ③ 350x300 RETURN DUCT UP FROM BELOW.
- ④ 300x250 SUPPLY DUCT DOWN TO BELOW.
- ⑤ 300x250 RETURN DUCT UP FROM BELOW.
- ⑥ PROVIDE AND INSTALL DUCT SUPPORTS. REFER TO ARCHITECTURAL DRAWINGS FOR DUCT SUPPORT CURBS. TYPICAL.
- ⑦ MAKE CONNECTION OF NEW DUCT TO EXISTING.
- ⑧ PROVIDE AND INSTALL NEW ROOF TOP EXHAUST FAN C/W SPEED DRIVE, CURB, BACK DRAFT DAMPER.

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1	ISSUED FOR DD	2021.04.09	JL
No.	REVISION	DATE	BY



northern health
the northern way of caring

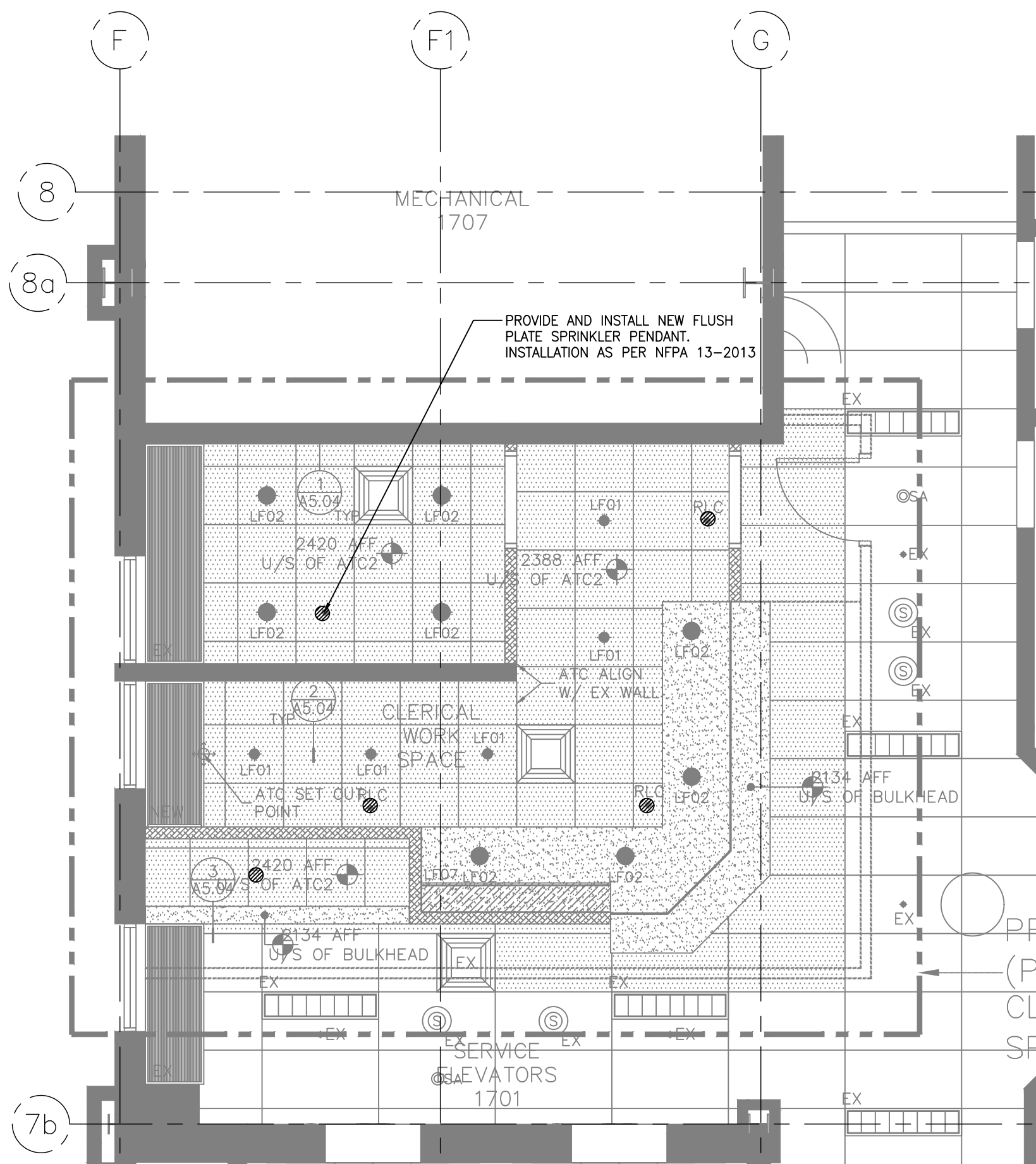
1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

PHASE 2

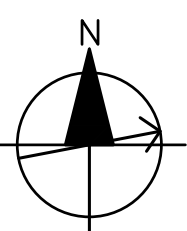


1 PHASE 2 - GENERAL FLUORO AND RECOVERY
M2.300 SCALE: NTS

- DRAWING NOTES**
- (A) DESIGN AND INSTALLATION TO BE AS PER NFPA-13 2013
 - (B) CONTRACTOR TO RETAIN A SPRINKLER ENGINEER TO DESIGN SPRINKLER LAYOUT TO SERVE THE RENOVATION AREA.
 - HAZARD: LIGHT HAZARD OCCUPANCY
 - (C) COORDINATE WIT FMO, SHUTDOWN OF SPRINKLER ZONE IN ORDER TO OFFSET SPRINKLER MAINS. SUBMIT WORK PLAN TO FMO AND COORDINATE FIRE WATCH THROUGH DURATION OF SHUTDOWN.



1 PHASE 2 - CLERICAL SPACE
M2.300 SCALE: NTS



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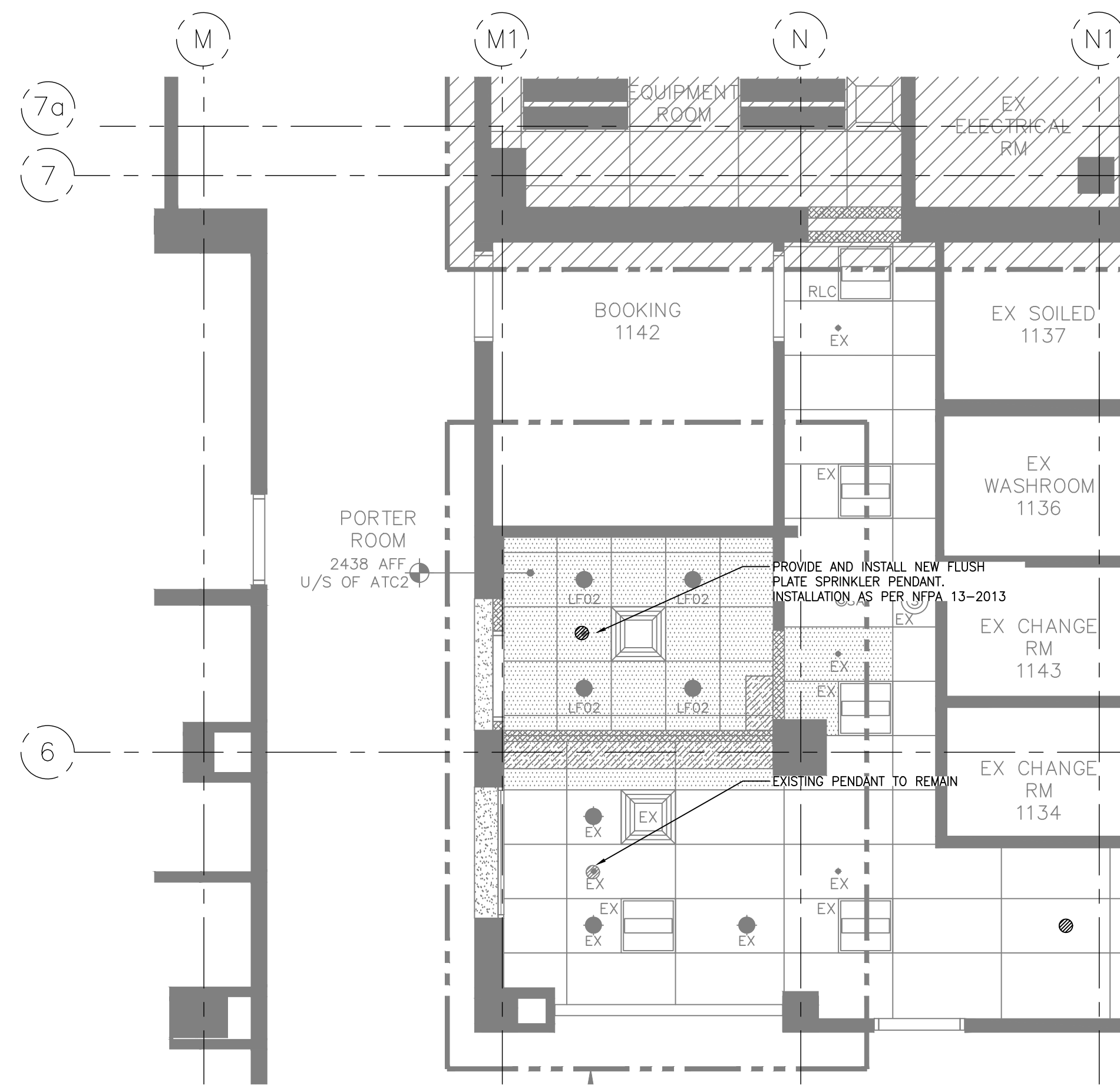


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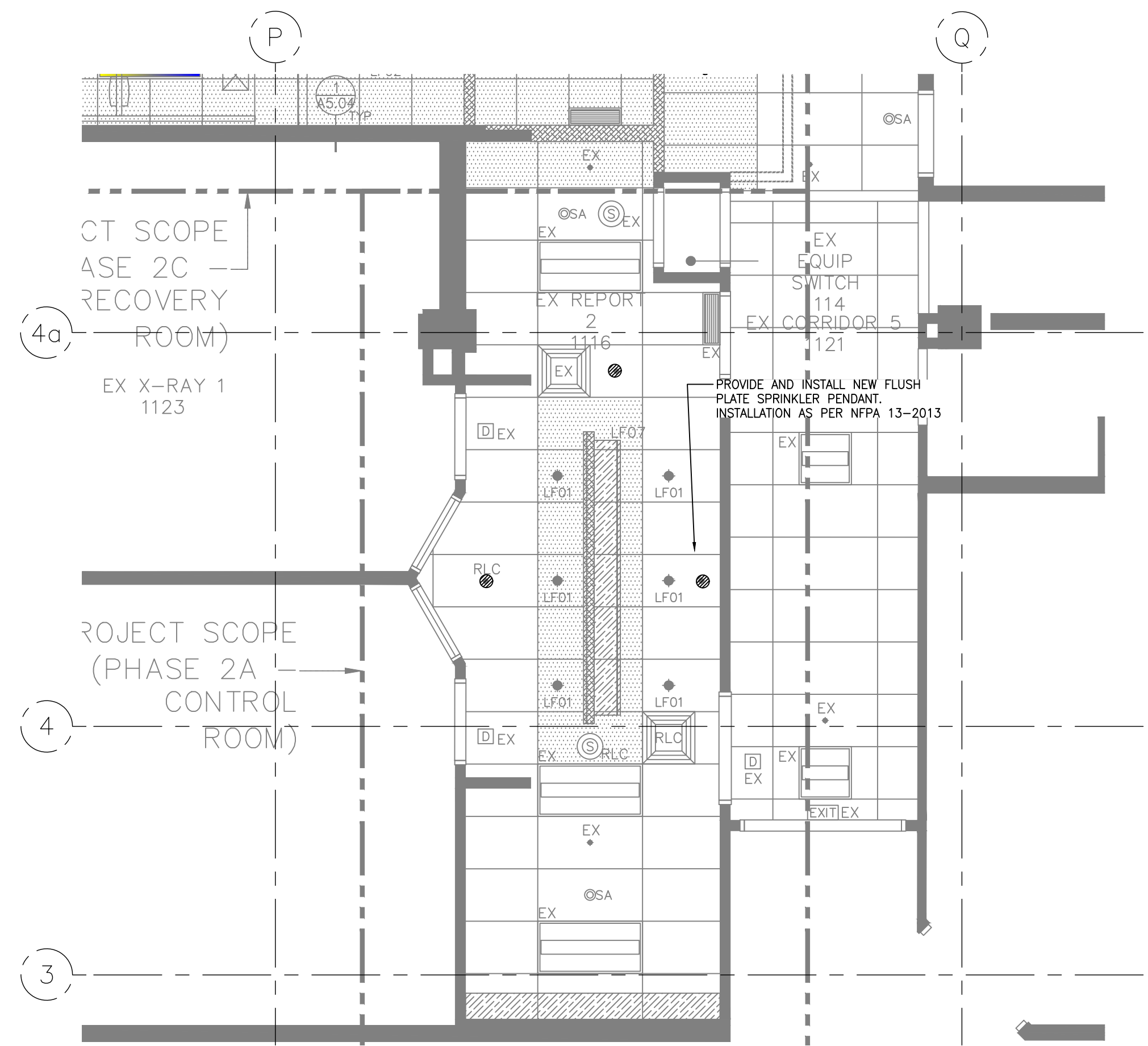
1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

LEVEL 1 FIRE
SUPPRESSION PLAN
PHASE 2

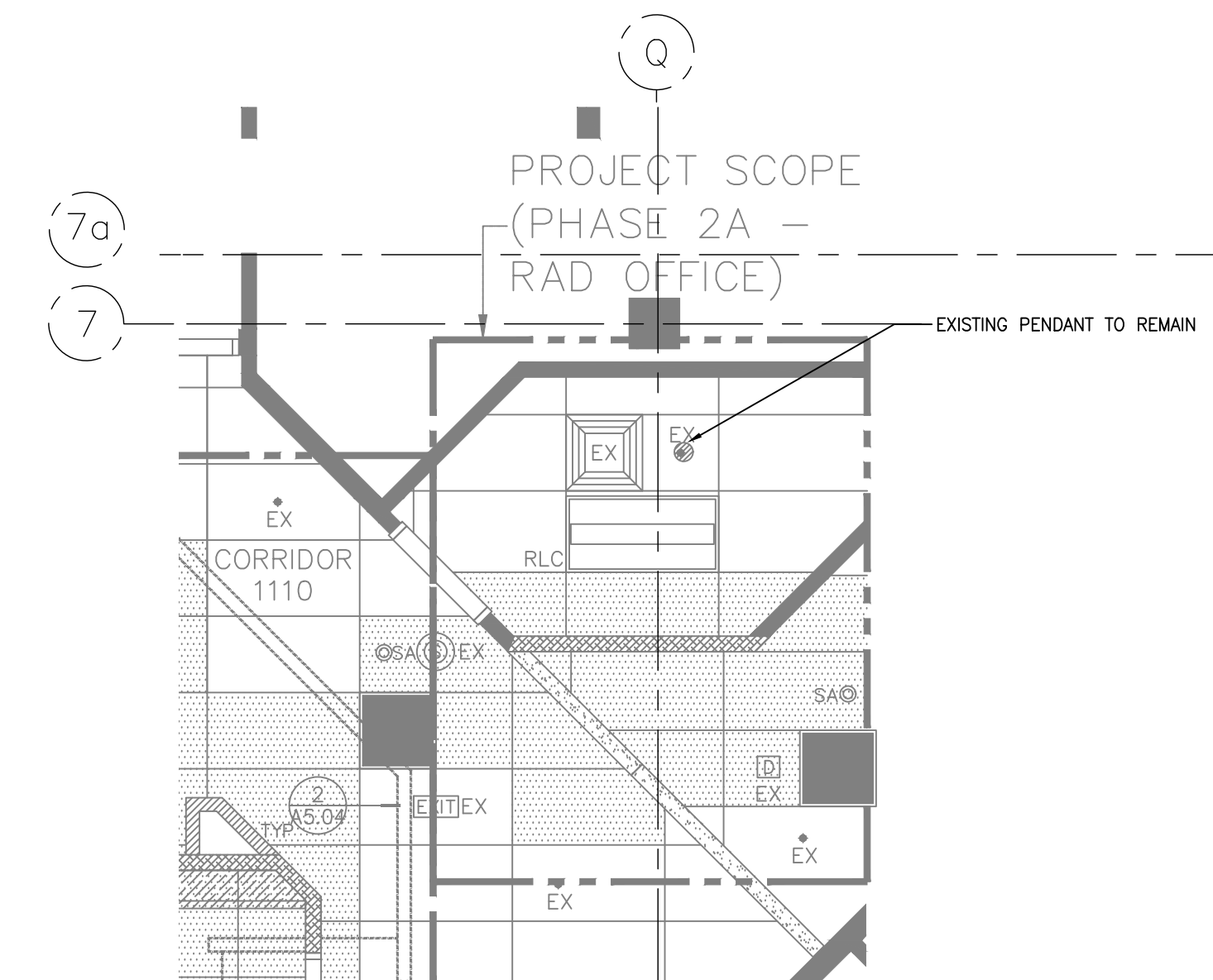
SCALE:
1:50
DATE:
OCT 15 2021
DRAWN:
KM
CHECKED:
JL
JOB No.:
20_002



1 PHASE 2A - PORTER ROOM
M2.301 SCALE: NTS



1 PHASE 2A - RAD OFFICE
M2.301 SCALE: NTS



1 PHASE 2A - CONTROL ROOM
M2.301 SCALE: NTS

- DRAWING NOTES**
- (A) DESIGN AND INSTALLATION TO BE AS PER NFPA-13 2013
 - (B) CONTRACTOR TO RETAIN A SPRINKLER ENGINEER TO DESIGN SPRINKLER LAYOUT TO SERVE THE RENOVATION AREA.
 - HAZARD: LIGHT HAZARD OCCUPANCY
 - (C) COORDINATE WITH FMO, SHUTDOWN OF SPRINKLER ZONE IN ORDER TO OFFSET SPRINKLER MAINS. SUBMIT WORK PLAN TO FMO AND COORDINATE FIRE WATCH THROUGH DURATION OF SHUTDOWN.

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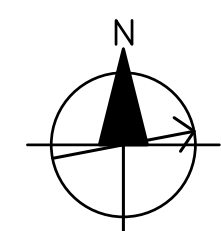


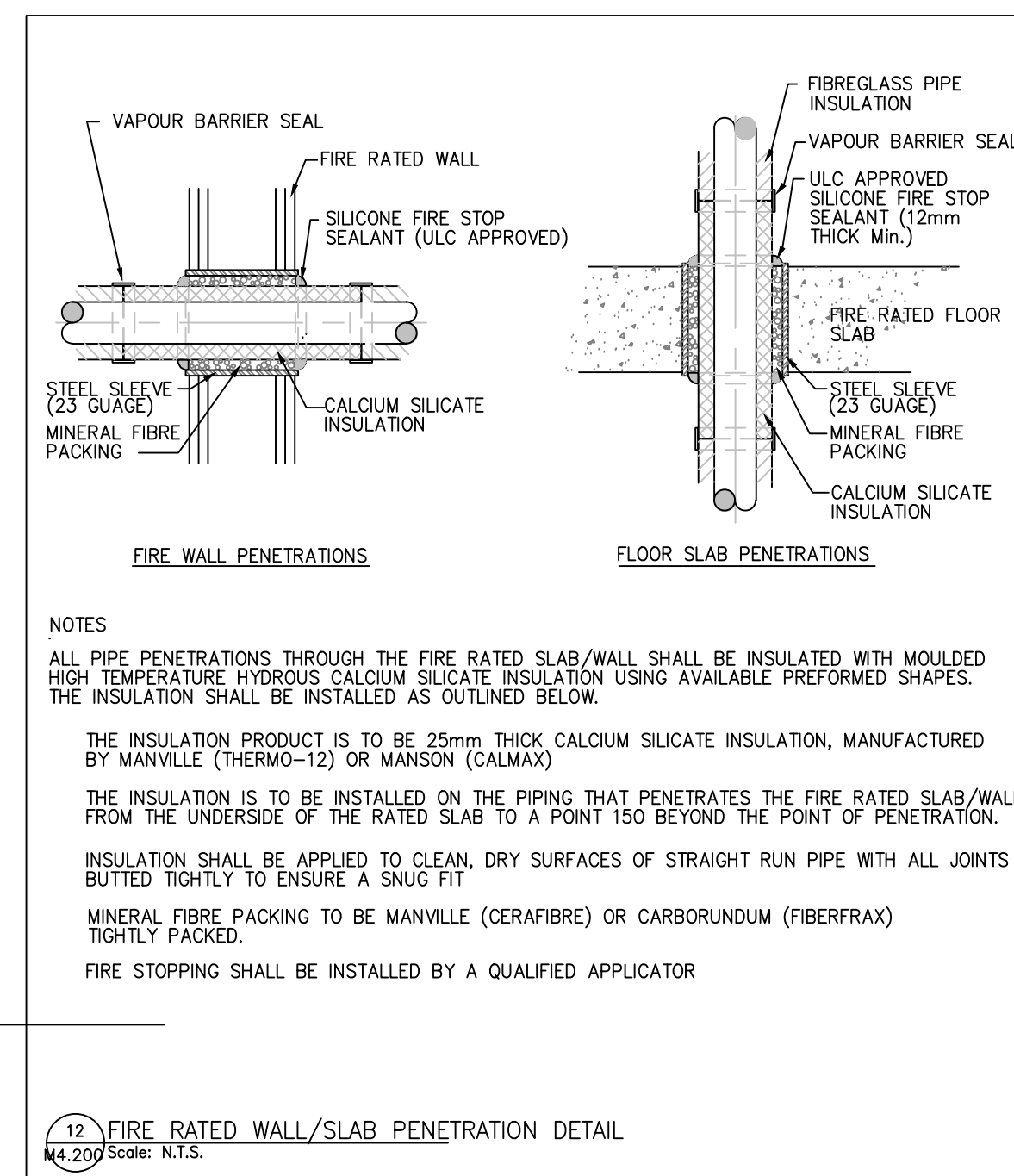
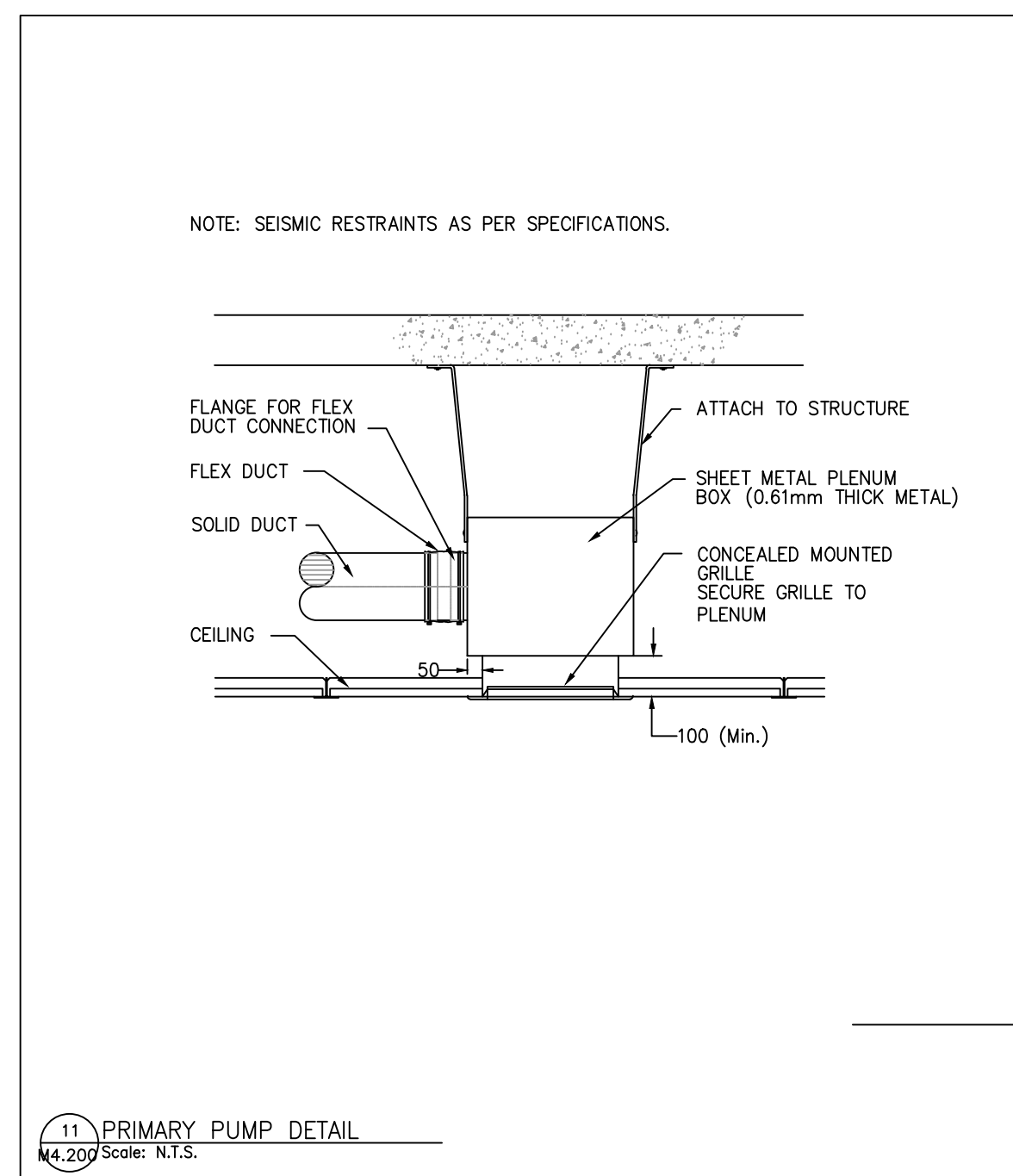
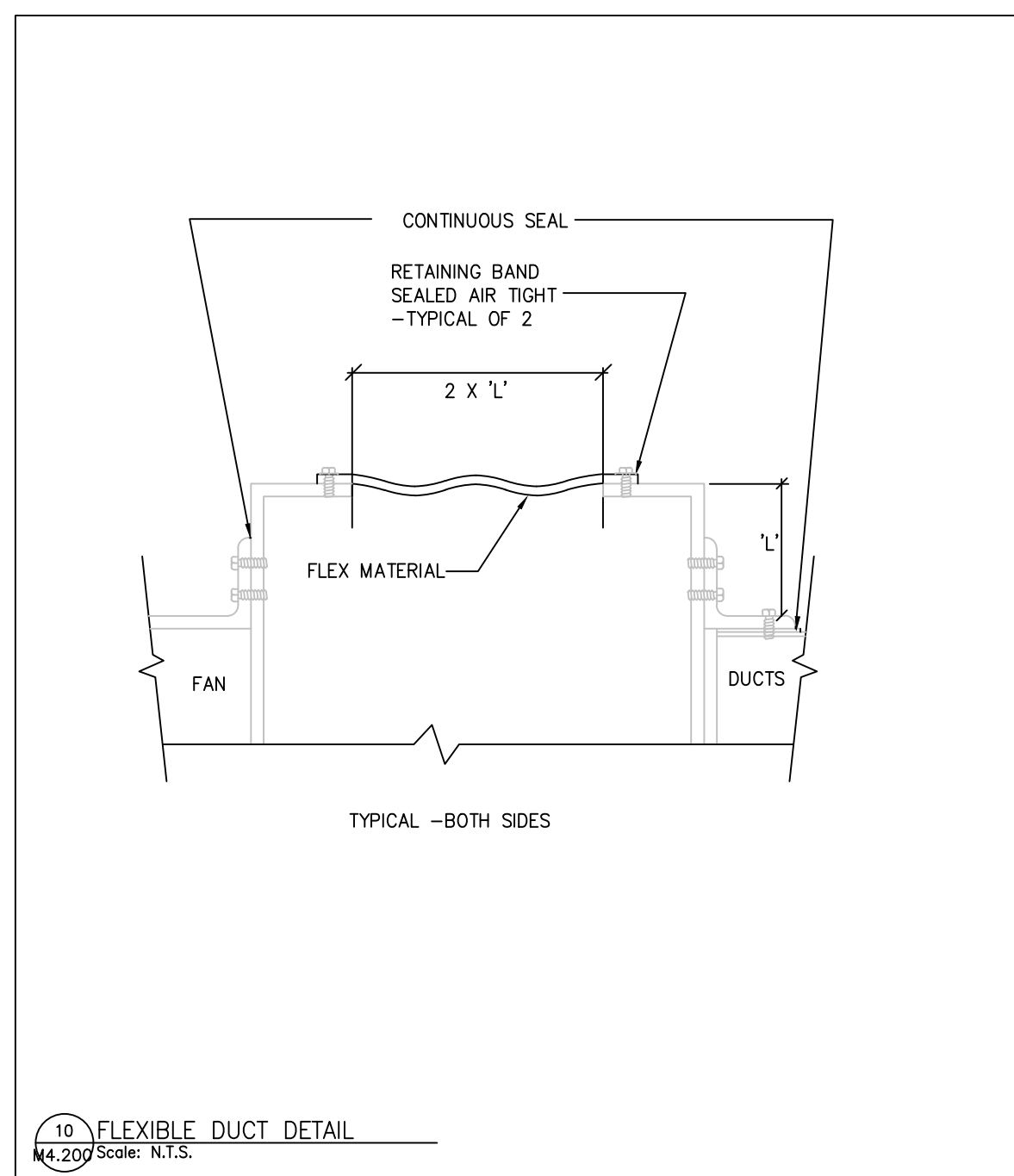
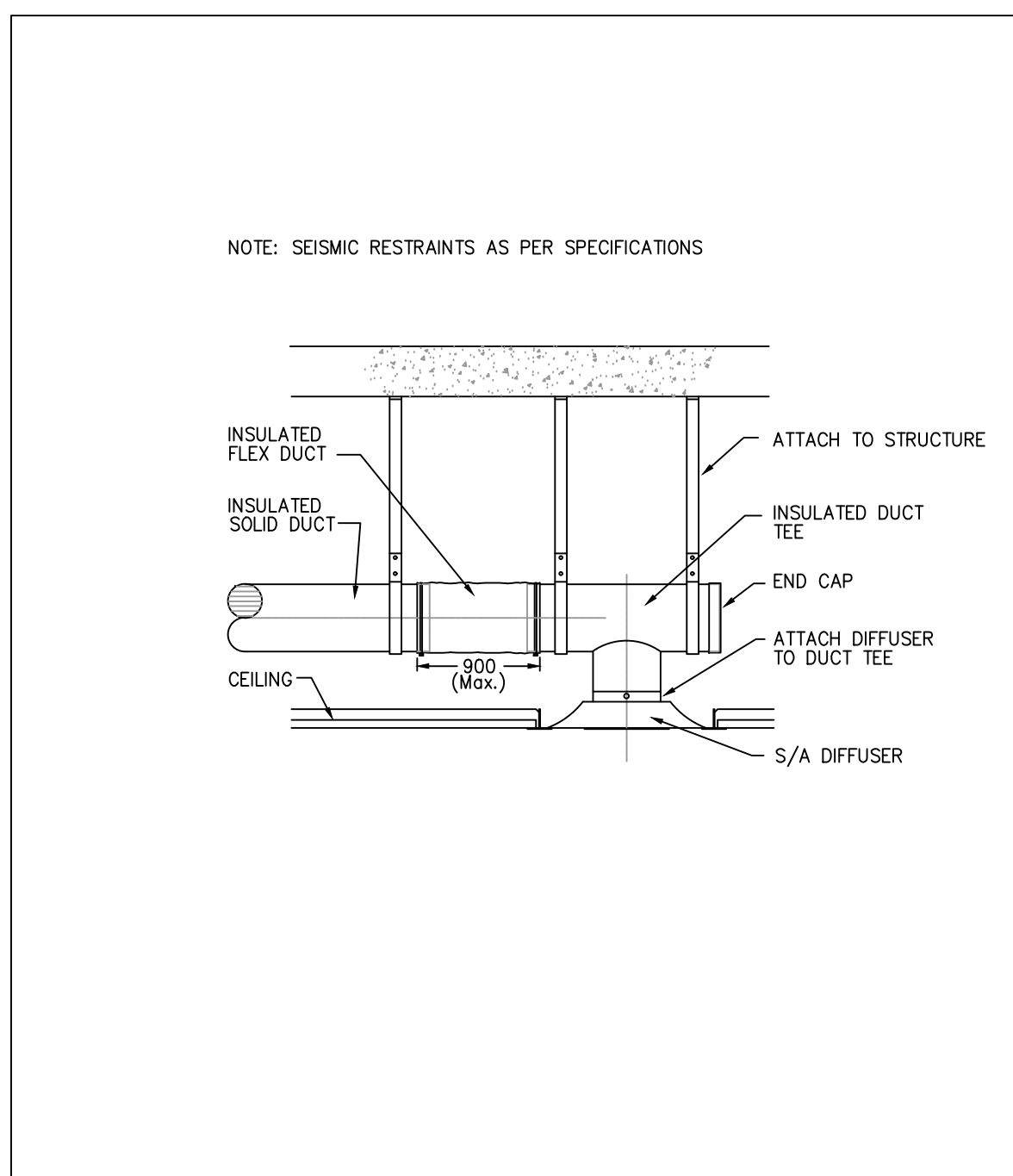
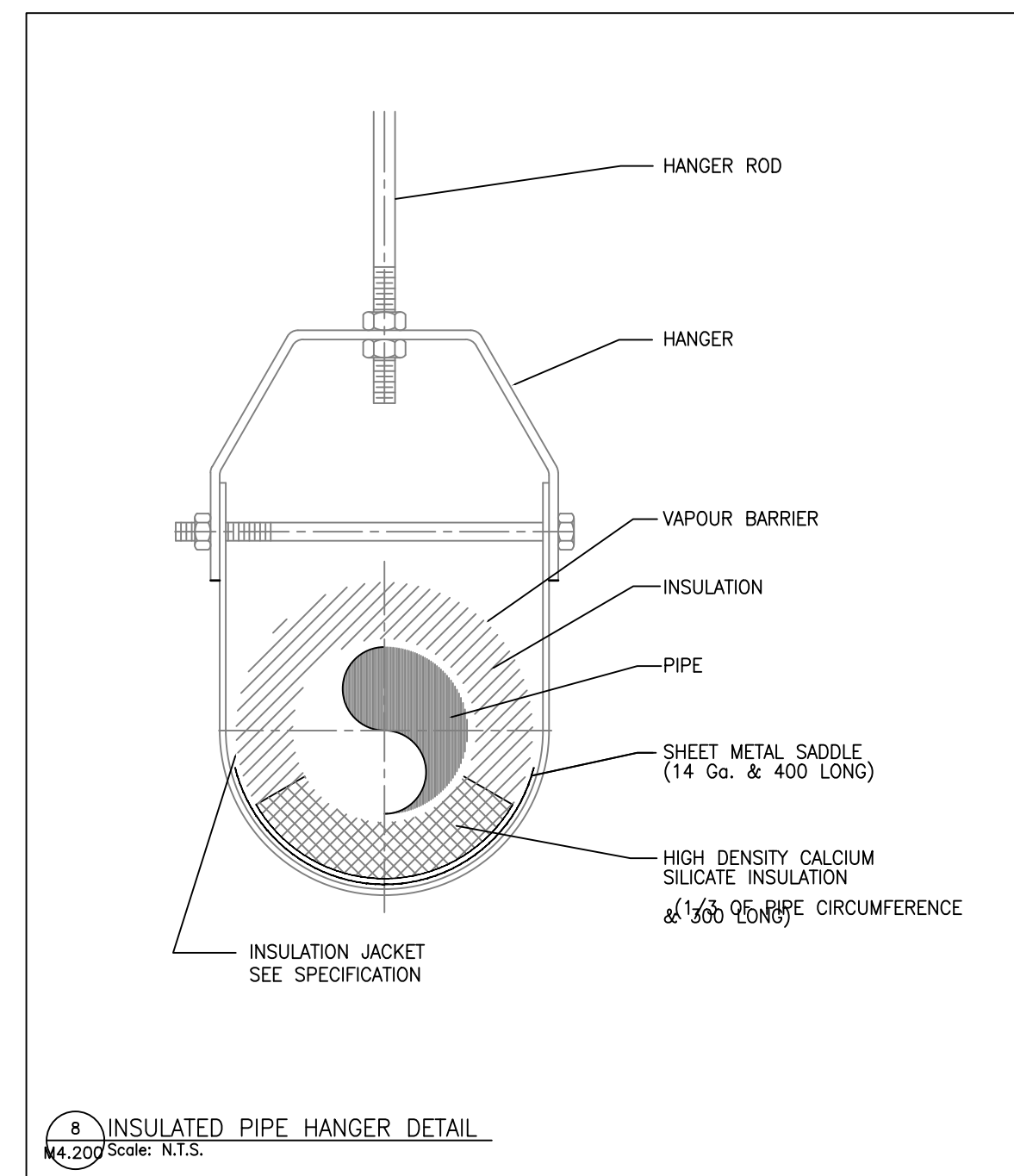
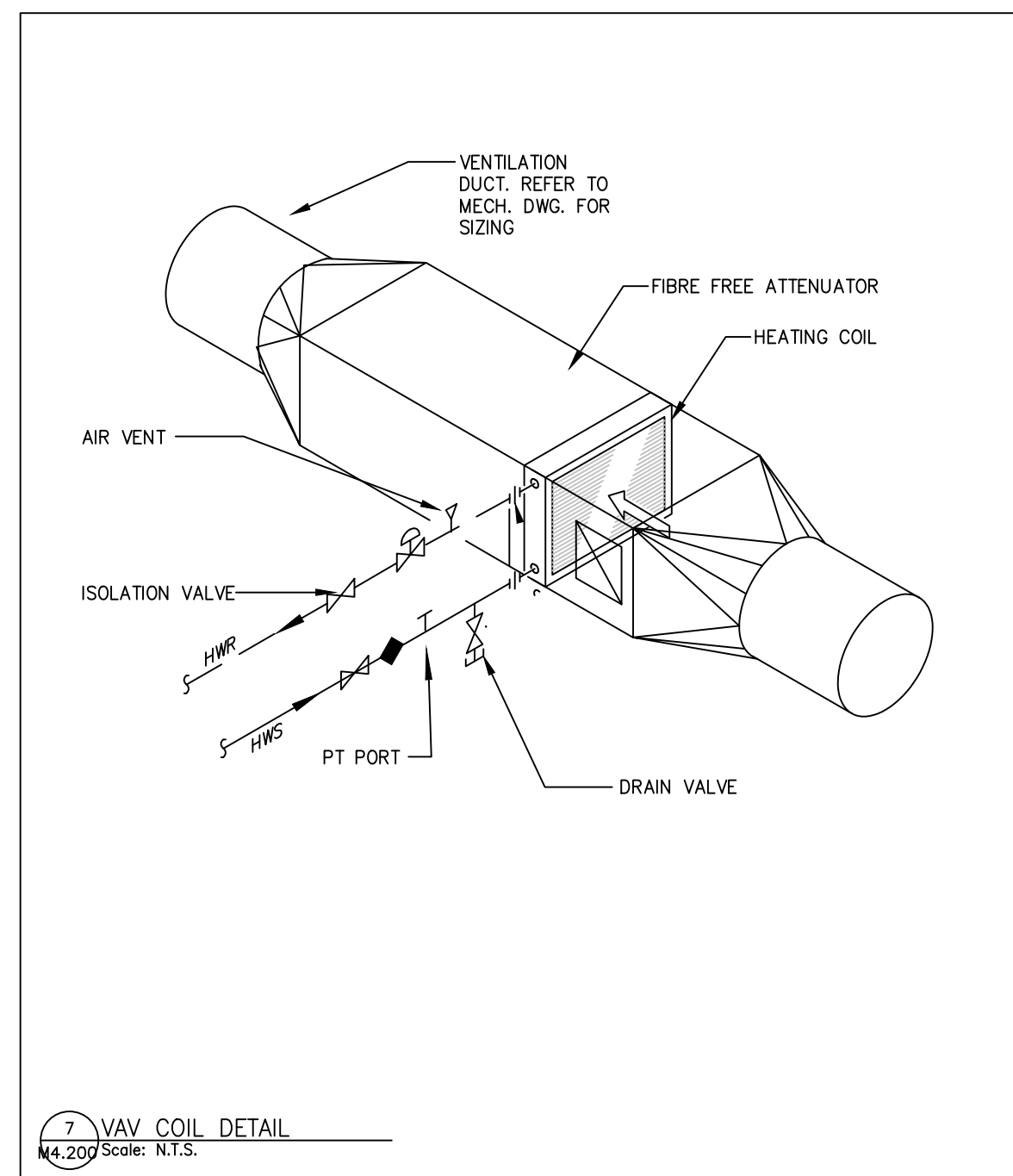
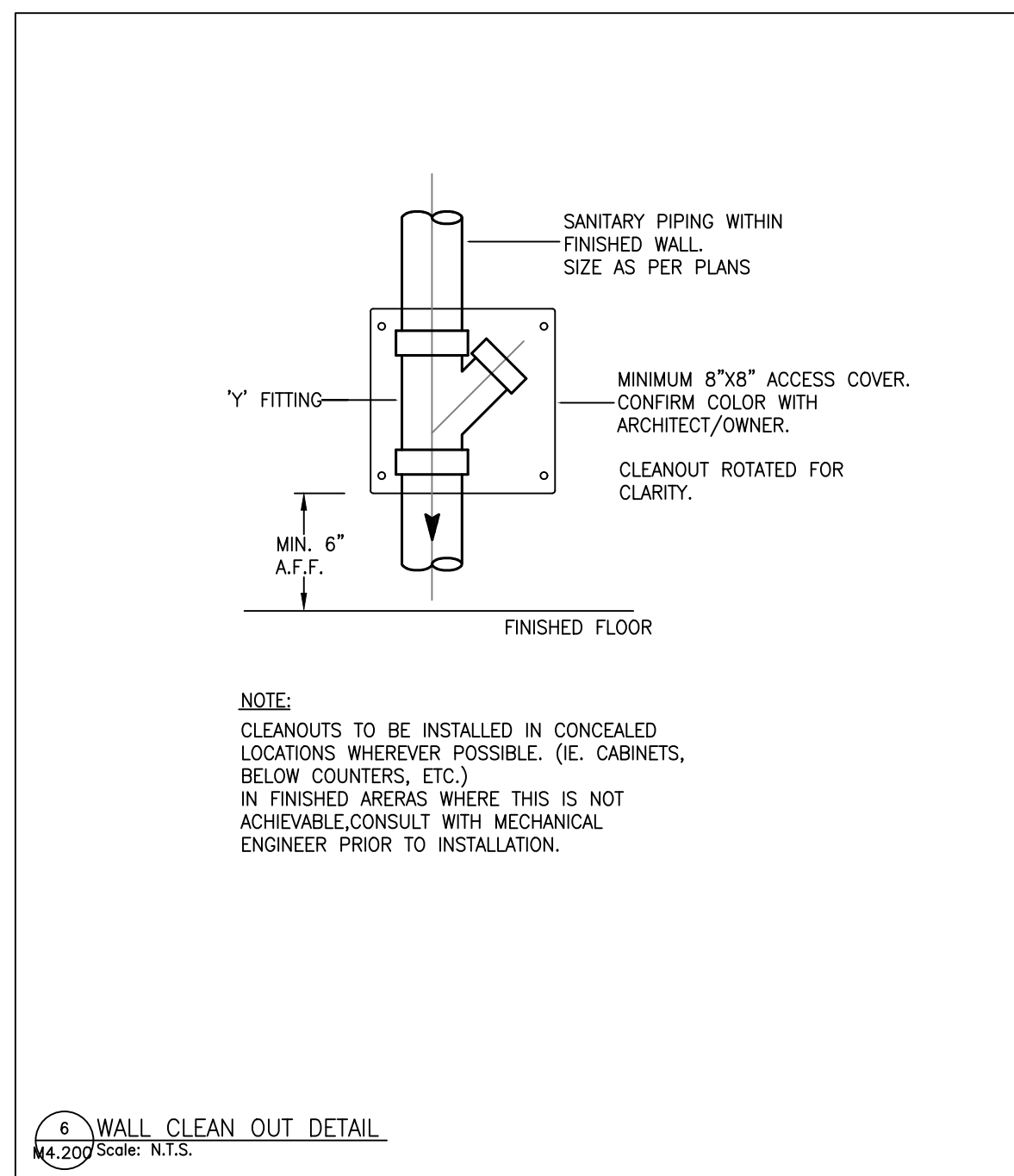
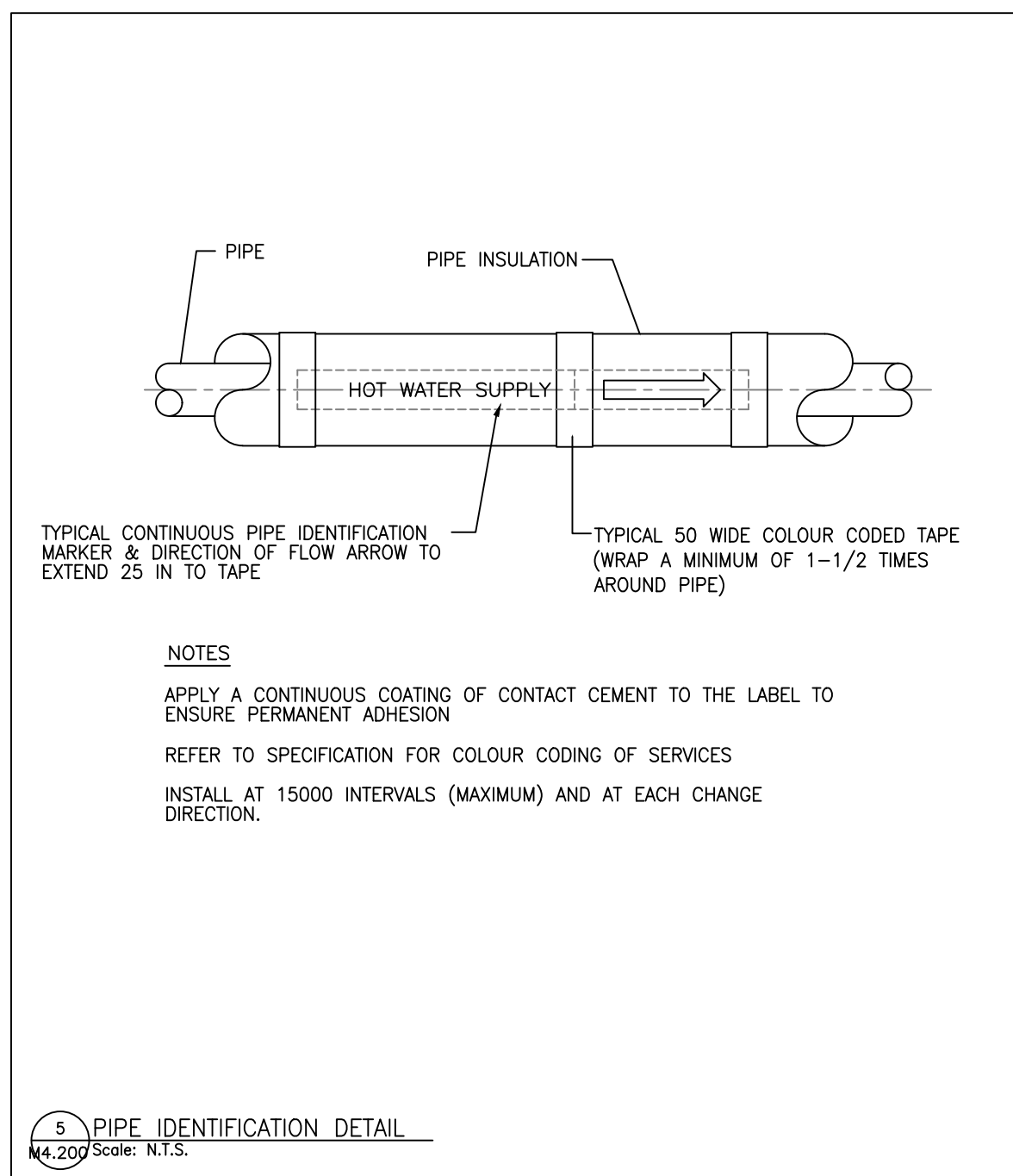
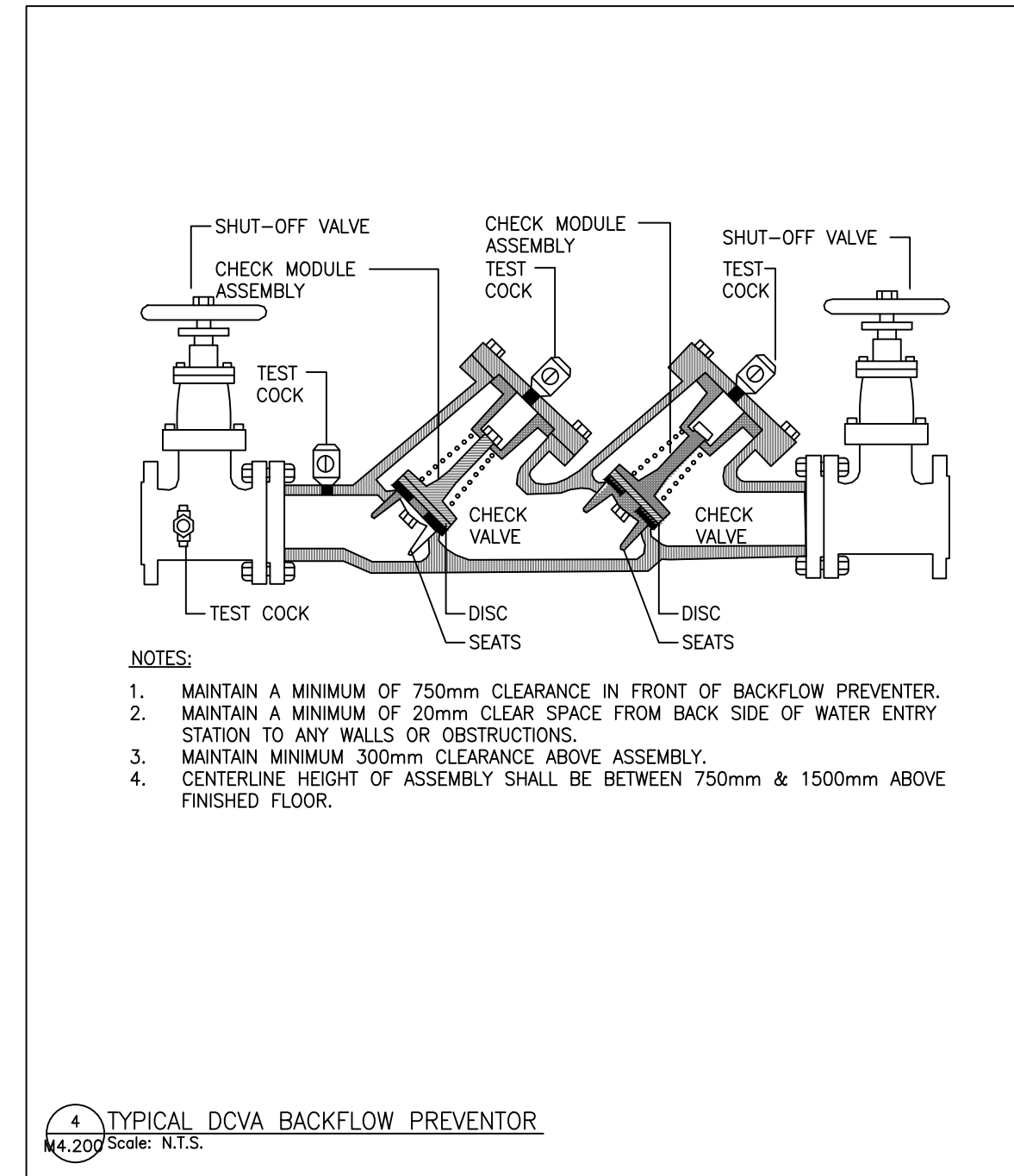
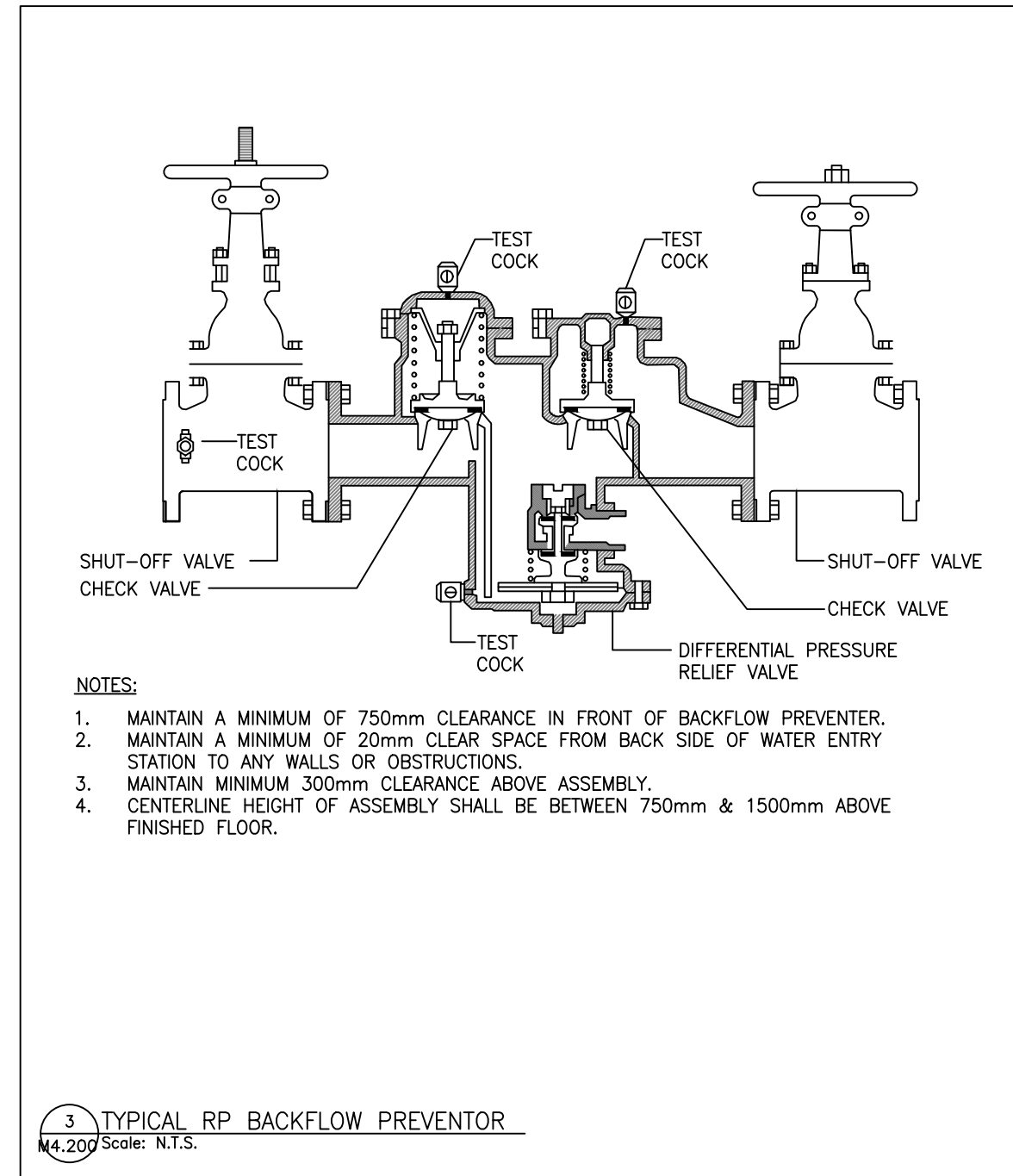
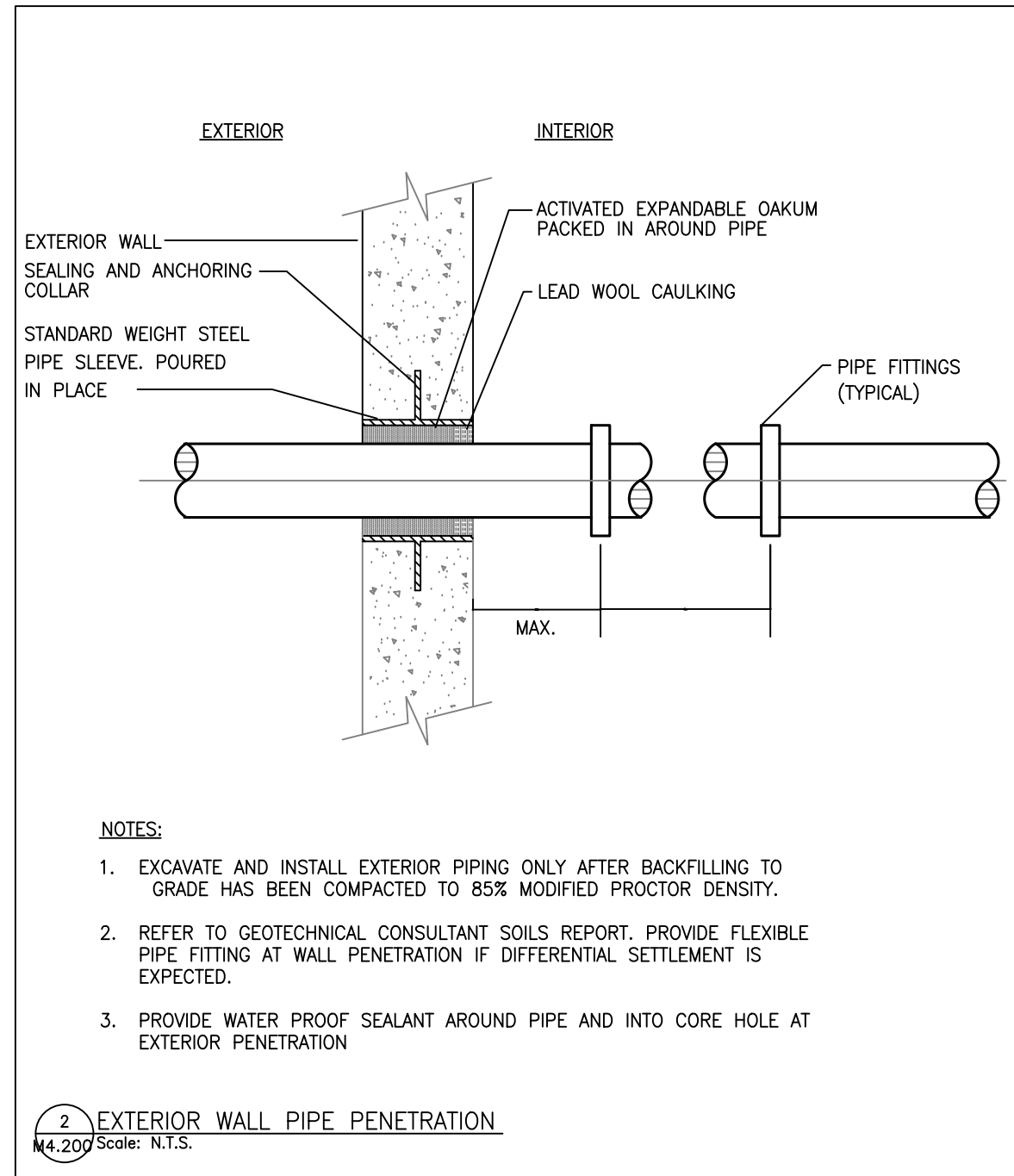
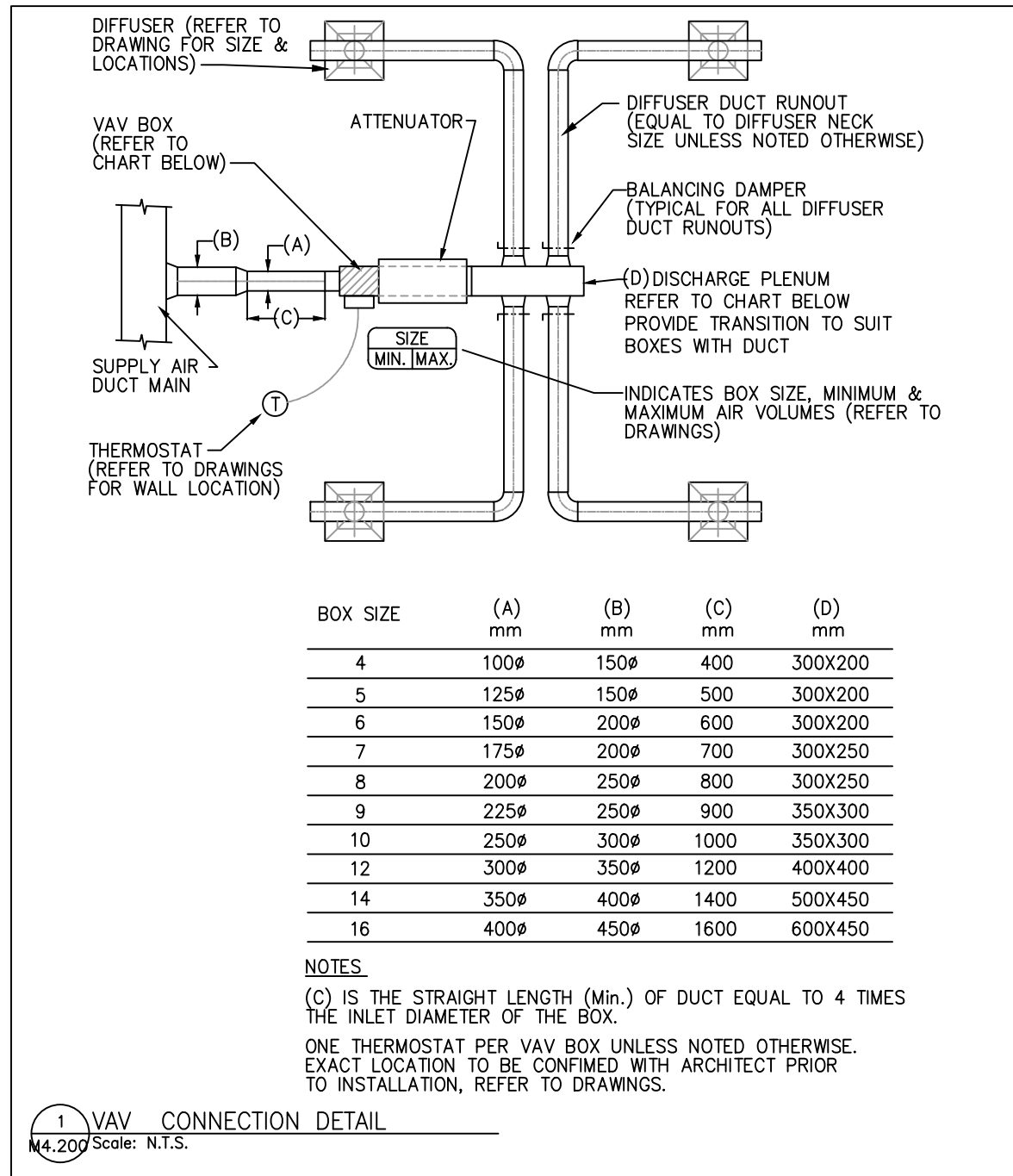
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1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

LEVEL 1 FIRE
SUPPRESSION PLAN
PHASE 2

SCALE:
1:50
DATE:
OCT 15 2021
DRAWN:
KM
CHECKED:
JL
JOB No.:
20_002

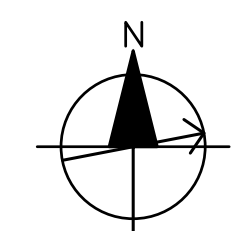


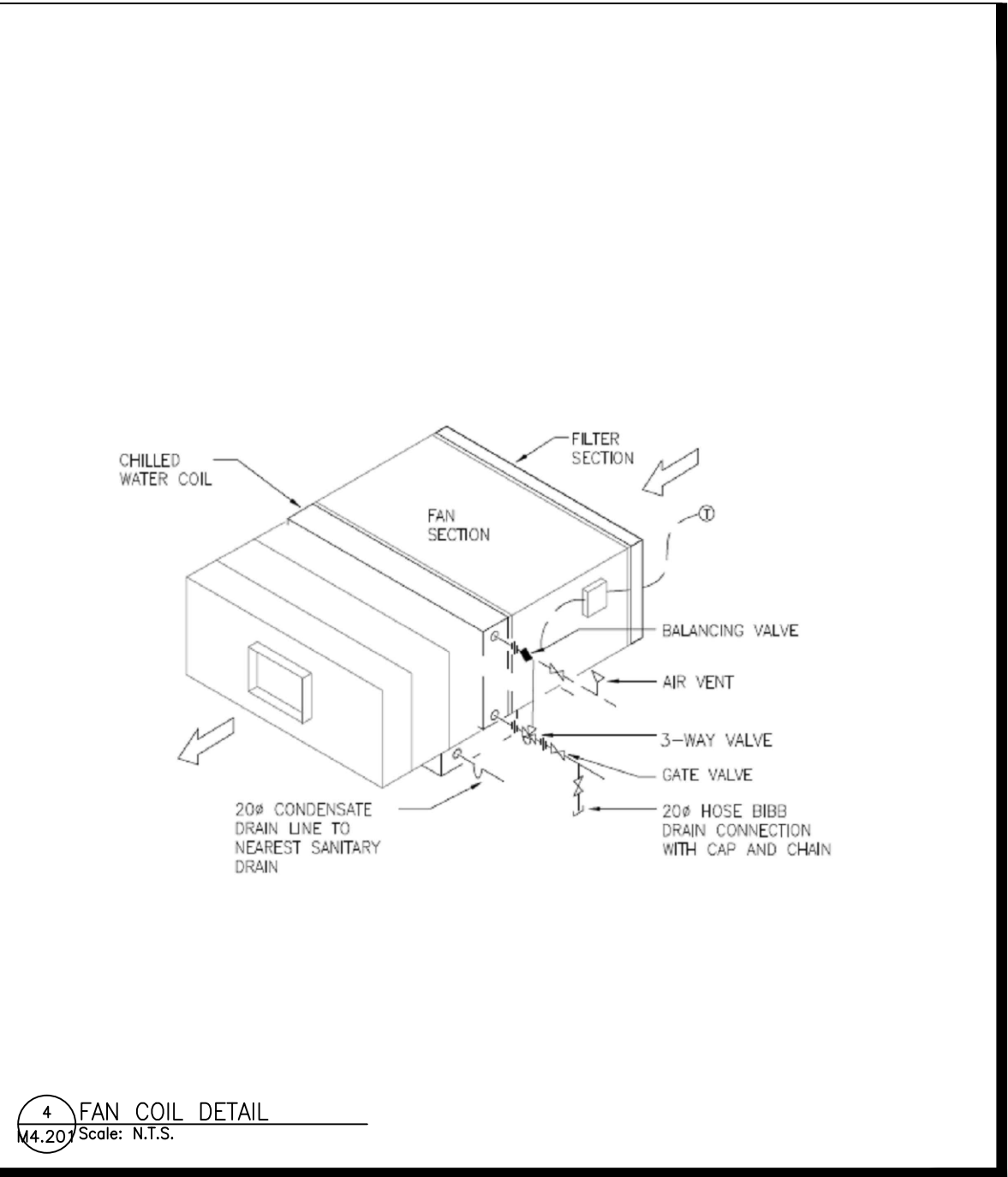
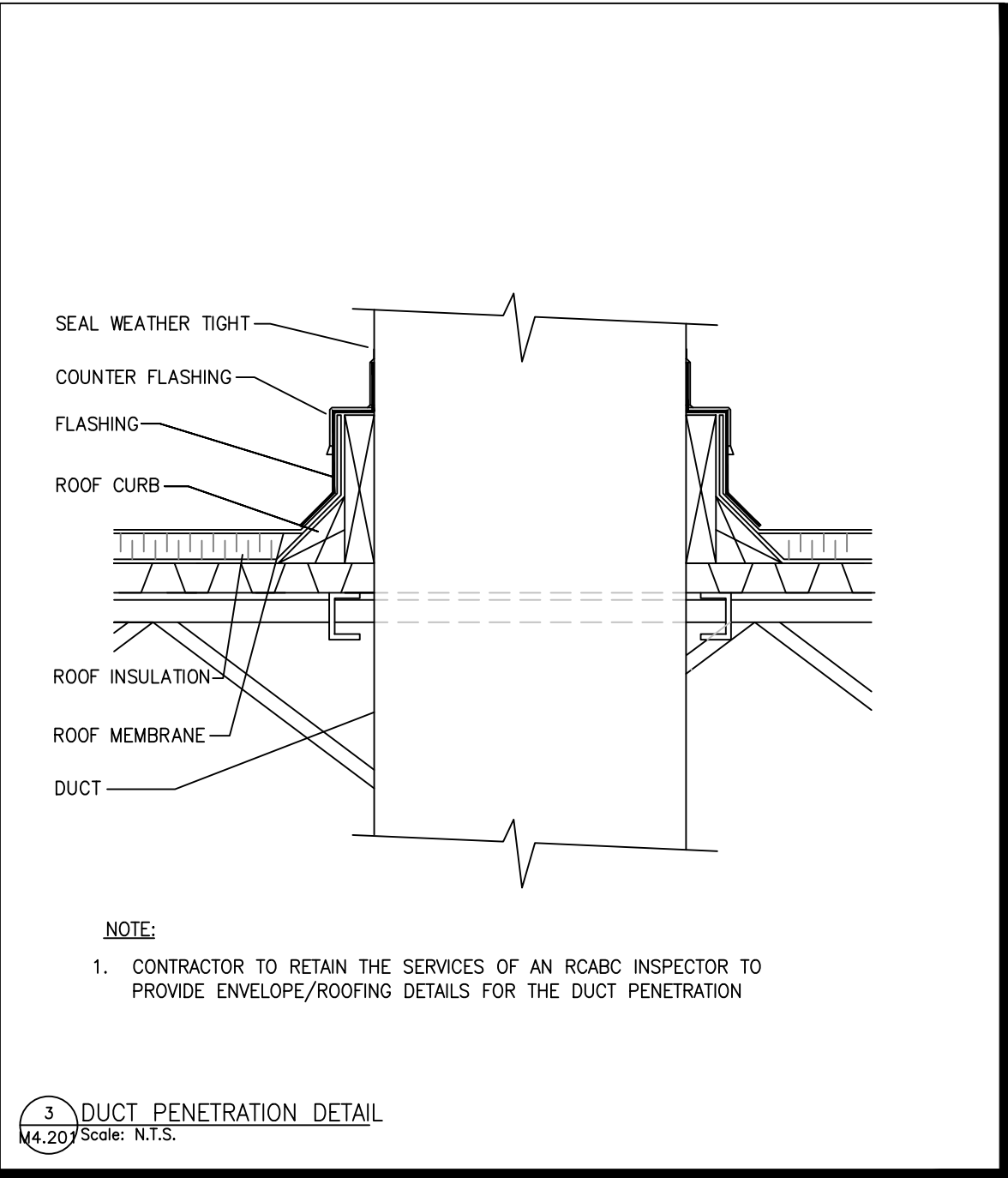
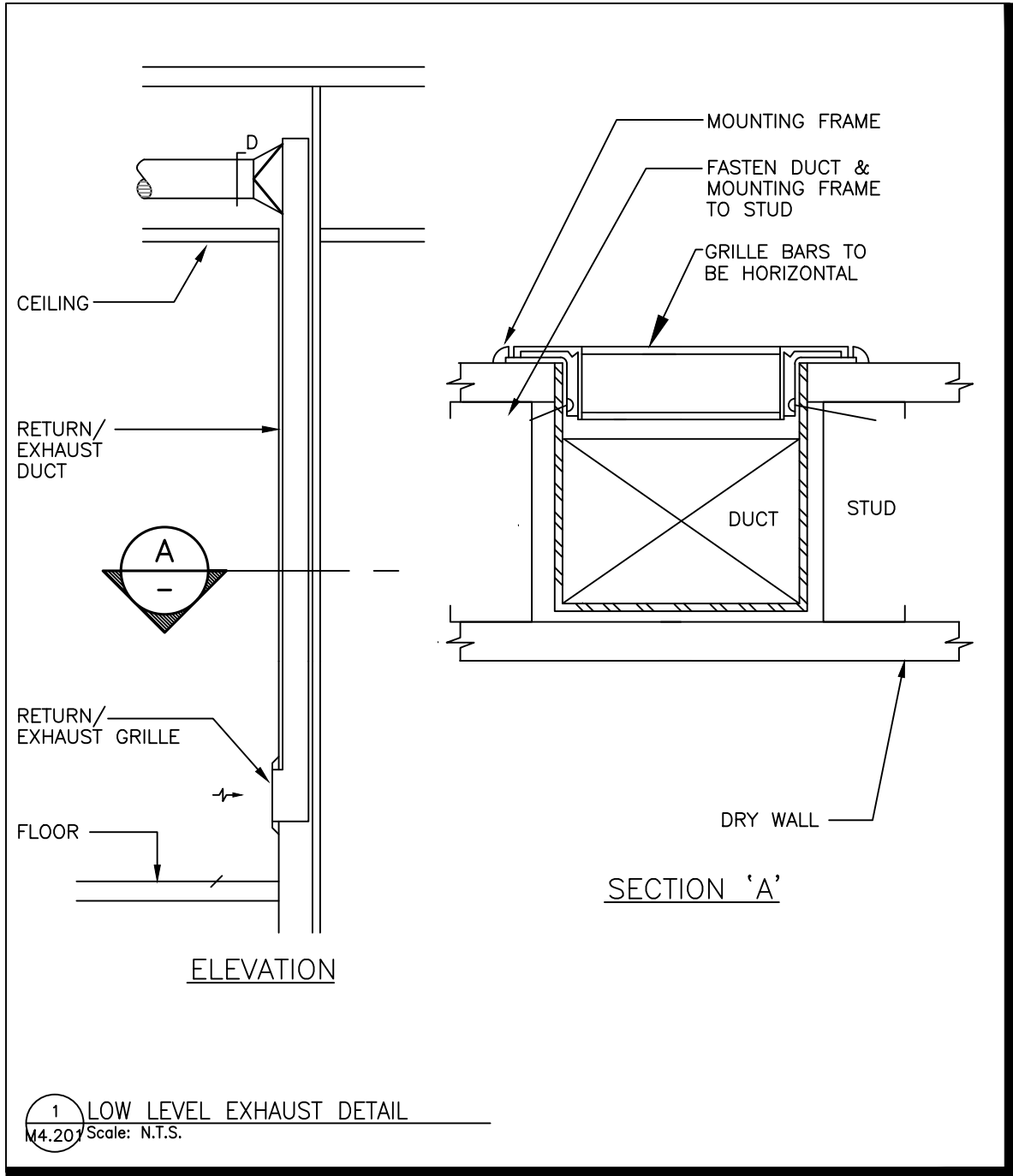


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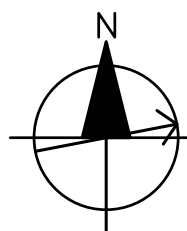
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1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

DETAILS

PHASE 2

SCALE:
N.T.S.
DATE:
OCT 15 2021
DRAWN:
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JOB No.:
20_002



M4.201

		MECHANICAL		
UHN General Fluoro 1475 Edmonton Street, Prince George		EQUIPMENT SCHEDULES -- DIFFUSERS AND GRILLES		Page 1 of 1
EQUIPMENT DATA				
UNIT NO.	S-2	E-1	R-1	
TYPE	SQUARE PLAQUE	STAINLESS GRILLE	RETURN GRILLE	
SERVICE	SUPPLY			
LOCATION	REFER TO DRAWINGS	REFER TO DRAWINGS	REFER TO DRAWINGS	
MANUFACTURER	EH PRICE	EH PRICE	EH PRICE	
MODEL	SPD	730H	635.0	
SIZE (W x H)	600x600	REFER TO DRAWINGS	REFER TO DRAWINGS	
INLET SIZE	REFER TO DRAWINGS	REFER TO DRAWING	REFER TO DRAWINGS	
MOUNTING		REFER TO DRAWINGS	REFER TO DRAWINGS	
FRAME	T-BAR	STANDARD	REFER TO DRAWINGS	
FINISH	STANDARD	STANDARD	STANDARD	
NOTES	1		1.0	
NOTE (1)	VOLUME DAMPER			

MECHANICAL				
EQUIPMENT SCHEDULES --			Page 1 of 1	
FANS				
EQUIPMENT DATA				
UNIT NO.		EF-1		
SERVICE		RECOVERY ROOM		
LOCATION		ROOF		
MANUFACTURER		GREENHECK		
MODEL		CUE-090 VG		
FAN DATA				
AIR FLOW	(L/s)	189		
	(CFM)	400		
FAN SP	(Pa)	175		
	(Inches)	0.7		
FAN TYPE		INLINE		
IMPELLER	(Inches)			
DRIVE TYPE		DIRECT		
FAN RPM		1645		
MOTOR HP		0.17		
ELECTRICAL SERVICE		120/160		
NOISE LEVEL	(Lwa)	74		
NOTES		1,2,3		
NOTES				
NOTE (1)	0-10v VARIGREEN CONTROLS C/W 0-10 VDC signal for DDC control			
NOTE (2)	PROVIDE MANUFACTURER SUPPLIED ELECTRICAL DISCONNECT			
NOTE (3)	CURB AND BACKDRAFT DAMPER			

MECHANICAL				
EQUIPMENT SCHEDULES --			Page 1 of 1	
VAV BOXES				
EQUIPMENT DATA				
UNIT NO.	S-VAV-1	S-VAV-2	S-VAV-3	
SERVICE	GENERAL FLUORO	CONTROL ROOM	RECOVERY ROOM	
MANUFACTURER	EH PRICE	EH PRICE	EH PRICE	
MODEL SERIES	SDV-5000	SDV-5000	SDV-5000	
AIRFLOW DATA				
SIZE	8	6	8	
DESIGN	(L/s)	236	151	194
AIR FLOW	(CFM)	500	320	410
MINIMUM AIRFLOW	(L/s)	236	151	194
ALLOWABLE	(CFM)	500	320	410
ATTENUATOR	L	36"	36"	36"
HYDRONIC REHEAT COIL DATA				
CAPACITY	(kW)	0.85	0.54	0.70
	(MBH)	13.5	8.6	11.1
WATER FLOW	(L/s)	0.09	0.05	0.07
	(USGPM)	1.35	0.86	1.11
ENT WATER	(Deg C)	62.2	62.2	62.2
	(Deg F)	180	180	180
LEAV WATER	(Deg C)	71.1	71.1	71.1
	(Deg F)	160	160	160
ENT AIR	(Deg C)	12.8	12.8	12.8
	(Deg F)	55	55	55
LEAVING AIR	(Deg C)	26.7	26.7	26.7
	(Deg F)	80	80	80

NOTES	2,3,4	2,3,4	2,3,4
NOTE (1)	2 ROW COIL		
NOTE (2)	1 ROW COIL		
NOTE (3)	FIBRE FREE ATTENUATOR		
NOTE (4)	AIRFLOW SENSOR		

EQUIPMENT DATA				
UNIT NO.	R-VAV-1	R-VAV-2	R-VAV-3	
SERVICE	GENERAL FLUORO	CONTROL ROOM	RECOVERY ROOM	
MANUFACTURER	EH PRICE	EH PRICE	EH PRICE	
MODEL SERIES	SDV-5000	SDV-5000	SDV-5000	
AIRFLOW DATA				
SIZE	8	6	8	
DESIGN	(L/s)	236	151	194
AIR FLOW	(CFM)	500	320	410
MINIMUM AIRFLOW	(L/s)	236	151	194
ALLOWABLE	(CFM)	500	320	410
ATTENUATOR	L	36"	36"	36"

HYDRONIC REHEAT COIL DATA				
CAPACITY	(kW)			
	(MBH)			
WATER FLOW	(L/s)			
	(USGPM)			
ENT WATER	(Deg C)			
	(Deg F)			
LEAV WATER	(Deg C)			
	(Deg F)			
ENT AIR	(Deg C)			
	(Deg F)			
LEAVING AIR	(Deg C)			
	(Deg F)			

NOTES	3,4	3,4	3,4
NOTE (1)	2 ROW COIL		
NOTE (2)	1 ROW COIL		
NOTE (3)	FIBRE FREE ATTENUATOR		
NOTE (4)	AIRFLOW SENSOR		

UHN General Fluoro		MECHANICAL	
University Hospital of Northern BC		EQUIPMENT SCHEDULES --	
		FAN COIL	
		Page 1 of 1	
SYSTEM DATA			
SYSTEM		EQUIPMENT ROOM	
MANUFACTURER		TRANE	
MODEL			
CAPACITY (MBH)		24.0	
INDOOR SECTION EQUIPMENT DATA			
UNIT NO.		FC-1	
LOCATION		Equip Room	
MODEL		BCHD024	
AIR FLOW		378	
(L/s)		800	
(CFM)		0.5	
ESP (IN H2O)		28	
WIDTH (Inches)		18	
HEIGHT (Inches)		33	
DEPTH (Inches)			
WEIGHT (LBS)			
BACKUP HEAT (kW)		208/160	
ELECTRICAL SERVICE		0.5	
ELECTRICAL HP			
DATA			
COIL DATA			
TOTAL CAPACITY MBH		24	
EWT (F)		45	
LWT (F)		55	
FLOW RATE (GPM)		4.5	
WPD (FT H2O)		2.7	

NOTES			
NOTE (1)	INDOOR UNITS C.W. CONDENSATE PUMPS, AND WALL CONTROLL		
NOTE (2)	PROVIDE EXTERNAL DRAIN PAN UNDER INDOOR UNIT.		
NOTE (3)	BACnet Interface		

			MECHANICAL	
			EQUIPMENT SCHEDULES --	
			PLUMBING FIXTURES	
			Page 1 of 1	
TAG	Type	DESCRIPTION		
SK-1	HAND HYGIENE SINK	American Standard ICU Basin #5118.111.020, Center hole only, 509 mm x 432 mm x 663 mm (20-1/16" x 17" x 26-1/8") high, Rectangular, Vitreous china with EverClean antimicrobial surface which inhibits the growth of stain and odor causing bacteria mold and mildew, White Finish, 65 mm (2-9/16") dia. Faucet perch, back of sink 93 mm (3-11/16") higher than faucet perch, Offset grid drain included, integrated mounting brackets, P-trap with Sanguard coating provided, American Standard Selectronic I.C. #605B.193.002 Electronic Faucet, Polished Chrome finish, Center hole only, Vandal resistant brass construction, 1.5 GPM (5.7 LPM) pressure compensating laminar flow device in spout base with plain spout end, Rigid gooseneck spout, 127 mm (5") projection reach, Self-adjusting sensor, AC Powered (Hard Wired). American Standard #PK00.HAC, Hardwired Hardwired Ac - Power Kit, Includes 10' long extension cable, American Standard PK00.BBU Battery Back Up Includes standard CR-P2 lithium battery for back-up power, Allows Selectronic AC faucets and flush valves to continue operating during a power failure and maintains fail-safe operation, Installs between Selectronic product and AC Power Supply (Plug-In or Hard-Wired), 4- amstd, Selectronic Battery Back-Up, Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, Bronze body, temperature adjusting dial, 10 mm (3/8") inlets and outlet compression fittings, high temperature thermostatic limit stop, shut-off with automatic reset when temperature exceeds 120 °F (48.8 °C), Integral checks, offer temperature range from full cold through 46 °C (114.8 °F). Provide tee, adaptors and flex. copper tubing to suit installation. McGuire #LFH165LKN3 Faucet Supplies, Chrome plated finish polished brass, heavy duty angle stops, 10 mm (3/8") I.P.S. Inlet x 76 mm (3") long rigid horizontal nipples, V.P. Loose keys, Escutcheon and flexible copper risers. Watts #CA-311 Fixture Carrier, mounted on concrete floor, steel hanger plate, heavy gauge epoxy coated steel offset uprights with welded feet supports. For one unit: 102 mm (4") for two to six units in a row: 152 mm (6") finished metal stud wall to back of pipe.		
		COUNTERTOP MOUNT SINK - TWO HANDLES FAUCET - BELOW DECK MECHANICAL WATER MIXING VALVE		
SK-2	COUNTERMOUNTED SINK	Franke Commercial #ALBS4606P-1/3 Single Bowl Countertop Mount Sink, 3 holes, 8" (203 mm) center, 460 mm (18-1/8") wide x 478 mm (18-13/16") long x 152 mm (6") high deep, Counter mounted, backledge, Grade 18-10 18 GA. (1.2 mm) type 304 stainless steel, self-rimming, Satin finish rim and bowls. Mounting kit provided, Fully undercoated to reduce condensation and resonance, factory applied rim seal, 3-1/2" (89 mm) crumb cup waste assembly with 1-1/2" (38 mm) tailpiece. Chicago Faucets 1100 Series #1100-GN2FC317ABCP Two handles Faucet, chrome plated finish, ECASIT construction lead free (equal or less than 0.25%) Cast brass body, Quatum compression operating cartridge, 5.7 LPM (1.5 GPM) laminar flow control insert in spout inlet, plain end outlet, 137 mm (5-3/8") projection flow control rigid/swing gooseneck spout, 102 mm (4") metal vandal proof wristblade sixteen point tapered broach handle with blue and red index buttons. Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, Bronze body, temperature adjusting dial, 10 mm (3/8") inlets and outlet compression fittings, high temperature thermostatic limit stop, shut-off with automatic reset when temperature exceeds 120 °F (48.8 °C), Integral checks, offer temperature range from full cold through 46 °C (114.8 °F). Provide tee, adaptors and flex. copper tubing to suit installation. Provide tempered water to hot side of faucet. McGuire #LFH165LKN3 Faucet Supplies, Chrome plated finish polished brass, heavy duty angle stops, 10 mm (3/8") I.P.S. Inlet x 76 mm (3") long rigid horizontal nipples, V.P. Loose keys, Escutcheon and flexible copper risers. McGuire #8903C P-Trap, heavy cast brass adjustable body, with slip nut, 38 mm (1-1/2") inlet / 51 mm (2") outlet, Shallow wall flange and Seamless tubular wall bend		

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6	ISSUED FOR CONSTRUCTION	2021.10.15	JL
5	ISSUED FOR TENDER	2021.06.04	JL
4	ISSUED FOR 80% CD	2021.05.20	JL
3	ISSUED FOR BP	2021.05.06	JL
2	ISSUED FOR BP REVIEW	2021.04.28	JL
1	ISSUED FOR DD	2021.04.09	JL
No.	REVISION	DATE	BY

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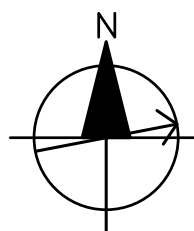
1475 EDMONTON STREET, PRINCE GEORGE
BC V2M 1S2

SCHEDULES

PHASE 2

SCALE:

NOTES
DATE:
OCT 15 2021
DRAWN:
KM
CHECKED:
JL
JOB No.:
20_002



MECHANICAL WORK SPECIFICATION

GENERAL

1.1 REFERENCES

1. THE GENERAL CONDITIONS OF THE CONTRACT, THE SUPPLEMENTARY CONDITIONS, AND ALL SECTIONS OF DIVISION 01 APPLY TO AND ARE A PART OF THIS SECTION OF THE SPECIFICATION.

1.2 SUBMITTALS

1. PRIOR TO SUPPLYING PRODUCTS TO THE SITE, SUBMIT FOR REVIEW, 8 COPIES OF SHOP DRAWINGS AND/OR PRODUCT DATA SHEETS INDICATING IN DETAIL THE DESIGN, CONSTRUCTION & PERFORMANCE OF MECHANICAL EQUIPMENT, & ALL MECHANICAL PRODUCTS EXCEPT PIPE & FITTINGS, SLEEVES, ESCUTCHEON PLATES, DUCTWORK, & SIMILAR ITEMS. ENDORSE SHOP DRAWINGS & PRODUCT DATA SHEETS WITH "CERTIFIED TO BE IN ACCORDANCE WITH ALL REQUIREMENTS".

2. READ THE FOLLOWING IN CONJUNCTION WITH THE WORDING ON THE CONSULTANT'S REVIEW STAMP APPLIED TO SHOP DRAWINGS FOR PRODUCT DATA SHEETS SUBMITTED:

1. "THIS REVIEW IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT APPROVE THE DETAIL DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH REMAINS WITH THE CONTRACTOR & SUCH REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS OR OF HIS RESPONSIBILITY FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. BE RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED & CORRELATED AT THE JOB SITE. FOR INFORMATION THAT PERTAINS SOLELY TO FABRICATION PROCESS OR TO TECHNIQUES OF CONSTRUCTION & INSTALLATION, AND FOR COORDINATION OF THE WORK OF ALL SUB-TRADES."

3. SUBMIT THE FOLLOWING TO THE CONSULTANT:

1. PROJECT CLOSE-OUT DOCUMENTATION: O & M MANUALS, RECORD AS-BUILT DRAWINGS, AND ALL ASSOCIATED DATA
2. PROGRESS PAYMENT BREAKDOWN: A DETAILED BREAKDOWN OF THE MECHANICAL WORK COST SUITABLE FOR EVALUATION OF PROGRESS PAYMENTS
3. EXTENDED WARRANTIES: COPIES OF ALL EXTENDED WARRANTIES

1.3 DEFINITIONS

1. THE FOLLOWING ARE DEFINITIONS OF WORDS FOUND IN THIS MECHANICAL WORK SPECIFICATION AND ON ASSOCIATED DRAWINGS:

1. "PROVIDE" (AND TENSES OF PROVIDE) - MEANS SUPPLY AND INSTALL COMPLETE
2. "INSTALL" (AND TENSES OF INSTALL) - MEANS INSTALL AND CONNECT COMPLETE
3. "SUPPLY" - MEANS SUPPLY ONLY
4. "CONSULTANT" - MEANS THE ARCHITECT OR CONSULTING ENGINEER WHO HAS PREPARED THE CONTRACT DOCUMENTS ON BEHALF OF THE OWNER
5. "EQUAL TO" - MEANS THAT A PRODUCT PROPOSED FOR INSTALLATION, OTHER THAN THE SPECIFIED PRODUCT, MUST BE EQUAL TO THE SPECIFIED PRODUCT IN SIZE, MATERIALS OF CONSTRUCTION, PERFORMANCE, DURABILITY, & WARRANTY REQUIREMENTS, & THE FINAL DECISION IN THIS MATTER RESTS WITH THE CONSULTANT.

1.4 CODES, REGULATIONS, AND STANDARDS

1. ABIDE BY THE LATEST EDITION ALL CODES, REGULATIONS, AND STANDARDS REFERRED TO AND/OR APPLIED BY GOVERNING AUTHORITIES.

2. INSTALL TO THE REQUIREMENTS OF THE BC BUILDING CODE 2018, CSA HEALTHCARE STANDARDS AND THE RECOMMENDED PROCEDURES OF SMACNA AND ALL EQUIPMENT MANUFACTURERS AND SUPPLIERS

1.5 EXAMINATION OF SITE

1. PRIOR TO SUBMITTING A BID, VISIT THE SITE & REVIEW & INCLUDE FOR EXISTING SITE CONDITIONS.

1.6 DRAWINGS AND SPECIFICATION

1. MECHANICAL DRAWINGS ARE PERFORMANCE DRAWINGS, DIAGRAMMATIC, SHOW APPROXIMATE LOCATIONS OF EQUIPMENT & SERVICES, ARE INTENDED TO CONVEY SCOPE OF WORK, & DO NOT SHOW ARCHITECTURAL AND STRUCTURAL DETAILS, PROVIDE OFFSETS, FITTINGS, TRANSFORMATIONS, & SIMILAR PRODUCTS REQUIRED AS A RESULT OF OBSTRUCTIONS & OTHER ARCHITECTURAL & STRUCTURAL DETAILS BUT NOT SHOWN ON DRAWINGS.

1.7 PLANNING AND LAYOUT OF THE WORK

1. PROPERLY PLAN, COORDINATE, & ESTABLISH LOCATIONS & ROUTING OF SERVICES WITH SUBCONTRACTORS SUCH THAT SERVICES WILL CLEAR EACH OTHER AS WELL AS ANY OBSTRUCTIONS
2. CONCEAL WORK IN PARTIALLY FINISHED OR UNFINISHED AREAS TO THE EXTENT MADE POSSIBLE BY AREA CONSTRUCTION, INSTALL PIPING, TO EACH OTHER.

1.8 GENERAL RE: INSTALLATION OF EQUIPMENT

1. UNLESS OTHERWISE SPECIFIED, INSTANT EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS & INSTRUCTIONS. GOVERNING CODES, STANDARDS, & REGULATIONS TAKE PRECEDENCE OVER MANUFACTURER'S INSTRUCTIONS.

1.9 PERMITS, FEES, AND CERTIFICATES

1. UNLESS OTHERWISE SPECIFIED, APPLY FOR, OBTAIN & PAY FOR ALL PERMITS REQUIRED TO COMPLETE THE MECHANICAL WORK.

1.10 WORKPLACE SAFETY

1. COMPLY WITH REQUIREMENTS OF THE WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS). SUBMIT WHMIS MSDS (MATERIAL SAFETY DATA SHEETS) FOR PRODUCTS WHERE REQUIRED, & MAINTAIN 1 COPY AT THE SITE
2. COMPLY WITH REQUIREMENTS OF OCCUPATIONAL HEALTH & SAFETY REGULATIONS & ALL OTHER REGULATIONS PERTAINING TO HEALTH AND SAFETY, INCLUDING WORKERS' COMPENSATION/ INSURANCE BOARD & FALL PROTECTION REGULATIONS.
3. IF, DURING THE COURSE OF WORK, ASBESTOS CONTAINING MATERIALS, BLACK MOULD, LEAD PAINT, OR ANY OTHER SUCH MATERIALS ARE ENCOUNTERED OR SUSPECTED, IMMEDIATELY REPORT THE DISCOVERY TO THE CONSULTANT & CEASE ALL WORK IN THE AREA IN QUESTION. DO NOT RESUME WORK IN AFFECTED AREAS UNTIL THE SITUATION HAS BEEN PROPERLY CORRECTED & WITHOUT WRITTEN APPROVAL FROM THE OWNER.

1.11 LIABILITY

1. THE MECHANICAL CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR LAYOUT OR THE WORK OF DIVISION 15 AND FOR ANY DAMAGE CAUSED BY IMPROPER LOCATION OR PERFORMANCE OF WORK

2. PROTECT WORK AND BUILDING SURFACES FROM DAMAGE DUE TO THE CONTRACTOR'S PERFORMANCE OF WORK. PAY PARTICULAR ATTENTION TO THE PROTECTION OF BUILDING VAPOUR BARRIERS AND WATER PROOF MEMBRANES. COVER FLOORS AND OTHER FINISHED SURFACE TO AVOID DAMAGE DURING PERIODS OF FREEZING WEATHER. ENSURE ALL PIPING IS PROTECTION FROM POTENTIAL FREEZE-UP AND ANY MECHANICAL OPENINGS IN THE BUILDING ENVELOPE ARE WEATHER AND TEMPERATURE PROTECTED.
3. MAINTAIN THE SITE IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES.
4. AT THE COMPLETION OF THE WORK, REMOVE TOOLS, WASTE AND SURPLUS EQUIPMENT AND MATERIALS FROM THE SITE.

5. MAINTAIN INSURANCE THAT WILL FULLY PROTECT THE OWNER, THE GENERAL CONTRACTOR, THE MECHANICAL CONTRACTOR AND THE MECHANICAL CONTRACTOR'S SUB-TRADES FROM ALL CLAIMS WHICH MAY ARISE FROM THE MECHANICAL CONTRACTOR'S PERFORMANCE OF WORK.

1.12 SCAFFOLDING, RIGGING, AND HOISTING

1. ERECT AND OPERATE SCAFFOLDING, RIGGING, HOISTING EQUIPMENT & ASSOCIATED HARDWARE REQUIRED FOR YOUR WORK.

1.13 CLOSEOUT SUBMITTALS

1. PRIOR TO APPLICATION FOR SUBSTANTIAL PERFORMANCE, SUBMIT ALL REQUIRED ITEMS & DOCUMENTATION SPECIFIED, INCLUDING OPERATING & MAINTENANCE MANUALS, AS-BUILT RECORD DRAWINGS, EXTENDED WARRANTIES, TEST CERTIFICATES, FINAL COMMISSIONING REPORT, & TAG REPORT

2. OPERATING AND MAINTENANCE MANUALS: SUBMIT 3 HARD COPIES OF OPERATING & MAINTENANCE MANUALS IN HARDCOVER 3" TO RING BINDERS, & IDENTIFIED WITH PROJECT NAME, & "MECHANICAL OPERATING AND MAINTENANCE MANUAL" WORDING. MANUALS ARE TO INCLUDE:

1. NAME OF ENGINEER AND MECHANICAL CONTRACTOR AND PHONE NUMBER

2. DESCRIPTION OF SYSTEM AND SCOPE OF WORK
3. SHOP DRAWING OF ALL EQUIPMENT
4. LIST OF TAGGED VALVES
5. EXTENDED WARRANTIES
6. MAINTENANCE AND OPERATION INSTRUCTIONS
7. LIST OF MANUFACTURERS SOURCE AND TRADE NAMES
8. BALANCE REPORT OF AIR & WATER SYSTEMS
9. COPY OF RECORD DRAWING
10. LIST OF INSPECTION AND TEST CERTIFICATES

3. RECORD "AS-BUILT" DRAWINGS: AS WORK PROGRESSES, CLEARLY MARK ON WHITE PRINTS OF THE CONTRACT DRAWINGS, SIGNIFICANT CHANGES FROM THE ROUTING OF SERVICES & LOCATIONS OF EQUIPMENT SHOWN ON THE CONTRACT DRAWINGS. KEEP THE SET UP-TO-DATE AT ALL TIMES, & AVAILABLE FOR PERIODIC REVIEW. WHEN WORK IS COMPLETE, TRANSFER AS-BUILT INFORMATION FROM AS-BUILT DRAWINGS TO A RECORDABLE AND IDENTIFIED CAD DISC WITH CAD WORK OF EQUAL QUALITY TO THE CONTRACT DRAWINGS. CAD DISCS WILL BE SUPPLIED FREE OF CHARGE BY THE CONSULTANT.

1.14 PHASING OF THE WORK

1. PHASING OF THE WORK IS REQUIRED TO MAINTAIN THE EXISTING BUILDING IN OPERATION. INCLUDE ALL COSTS FOR PHASING INCLUDING "OFF HOURS" PREMIUM TIME LABOUR COSTS.

1.15 EQUIPMENT AND SYSTEM MANUFACTURER'S CERTIFICATION

1. PRIOR TO EQUIPMENT & SYSTEM START-UP PROCEDURES, PAY FOR EQUIPMENT/SYSTEM MANUFACTURERS' AUTHORIZED REPRESENTATIVES TO EXAMINE THE INSTALLATION, & WHEN ANY REQUIRED CORRECTIVE MEASURES HAVE BEEN MADE, TO CERTIFY IN WRITING TO THE CONSULTANT THAT THE EQUIPMENT/SYSTEM INSTALLATION IS COMPLETE & IN ACCORDANCE WITH THE EQUIPMENT/SYSTEM MANUFACTURER'S INSTRUCTIONS.

1.16 EQUIPMENT AND SYSTEM START-UP

1. PRIOR TO COMMISSIONING, & UNDER SUPERVISION OF EQUIPMENT/SYSTEM MANUFACTURERS' REPRESENTATIVES, START-UP EQUIPMENT/SYSTEMS, MAKE REQUIRED ADJUSTMENTS, DOCUMENT PROCEDURES, LEAVE EQUIPMENT/SYSTEMS IN PROPER OPERATING CONDITION, & SUBMIT START-UP DOCUMENTATION SHEETS SIGNED BY THE MANUFACTURER/SUPPLIER & THE CONTRACTOR

1.17 EQUIPMENT AND SYSTEM COMMISSIONING

1. AFTER SUCCESSFUL START-UP AND PRIOR TO SUBSTANTIAL PERFORMANCE, COMMISSION THE MECHANICAL WORK IN ACCORDANCE WITH REQUIREMENTS OF CSA Z320, BUILDING COMMISSIONING, USE COMMISSIONING SHEETS INCLUDED WITH THE CSA STANDARD, & ANY SUPPLEMENTAL COMMISSIONING SHEETS REQUIRED.

1.18 O & M DEMONSTRATION & TRAINING

1. TRAIN THE OWNER'S DESIGNATED PERSONNEL IN ALL ASPECTS OF OPERATION & MAINTENANCE OF EQUIPMENT & SYSTEMS USING TECHNICIANS EMPLOYED BY THE EQUIPMENT/SYSTEM MANUFACTURER/SUPPLIER. THE NUMBER OF HOURS OF TRAINING ARE TO BE SUFFICIENT FOR THE OWNER'S PERSONNEL TO COMPLETELY UNDERSTAND OPERATION & MAINTENANCE OF THE EQUIPMENT/SYSTEM.

1.19 INSTALLATION OF PIPE SLEEVES

1. WHERE PIPES PENETRATE NEW CONCRETE AND/OR MASONRY SURFACES PROVIDE PIPE SLEEVES, MINIMUM #18 GAUGE FLANGED GALVANIZED STEEL OR, WHERE PERMITTED, FACTORY FABRICATED PIPE SLEEVES IN POURED CONCRETE CONSTRUCTION, & SCHEDULE 40 GALVANIZED STEEL PIPE OR CLASS 3000 CAST IRON PIPE IN CONCRETE OR MASONRY WALLS. SLEEVES IN WATERPROOFED SLABS OR WALLS ARE TO BE C/W A WATER STOP PLATE.

2. SIZE SLEEVES TO LEAVE 12 MM (1/2") CLEARANCE AROUND THE PIPES, OR WHERE THE PIPE IS INSULATED, A 12 MM (1/2") CLEARANCE AROUND PIPE INSULATION. PACK & SEAL THE VOID BETWEEN PIPE SLEEVES & THE PIPE OR PIPE INSULATION IN INTERIOR NON-FIRE RATED CONSTRUCTION FOR THE LENGTH OF THE SLEEVES WITH MINERAL WOOL & SEAL BOTH ENDS OF THE SLEEVE WITH SILICONE BASE CAULKING. PACK SEALS IN FIRE RATED CONSTRUCTION AS ABOVE. BUT USE ROCK WOOL & LEAVE SPACE AT SLEEVE ENDS FOR PREFIREPROOFING. SEAL SLEEVES IN EXTERIOR WALLS BELOW GRADE (& ANY OTHER WALL WHERE WATER LEAKAGE MAY BE A PROBLEM) WITH THUNDERLINE CORP. (POWER PLANT SUPPLY CO.) "LINK SEAL" MODEL S-316 OR EQUAL MECHANICAL SEALS. REFER TO FIRESTOPPING SECTION FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.

3. TERMINATE SLEEVES FOR EXPOSED SO THAT THE SLEEVE IS FLUSH AT BOTH ENDS WITH THE BUILDING SURFACE CONCERNED & PROVIDE CHROME PLATED BRASS OR BRUSHED STAINLESS STEEL ESCUTCHEON PLATES TIGHT AGAINST THE BUILDING SURFACE TO COMPLETELY COVER BOTH ENDS.

1.20 DUCT OPENINGS

1. DUCT OPENINGS, AIR INLET AND OUTLET OPENINGS, FIRE DAMPER & SIMILAR OPENINGS WILL BE PROVIDED IN NEW POURED CONCRETE WORK, MASONRY, DRYWALL & OTHER BUILDING SURFACES BY THE TRADE RESPONSIBLE FOR THE PARTICULAR CONSTRUCTION IN WHICH THE OPENING IS REQUIRED.

1.21 FIRESTOPPING AND SMOKE SEALS

1. UNLESS OTHERWISE SPECIFIED, WHERE MECHANICAL WORK PENETRATES FIRE RATED CONSTRUCTION, PROVIDE ULC LISTED & LABELED SMOKE & SMOKE SEAL MATERIALS INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF CANA-S115 (RATINGS F, FT, FH, & FTH AS REQUIRED), CAN/ULC-S101, BC BUILDING CODE SECTION 3.1.7 & OTHER GOVERNING AUTHORITIES TO SEAL THE PENETRATIONS.

2. ACCEPTABLE PRODUCTS

1. 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEM
2. JOHN MANVILLE FIRE TEMP PRODUCTS
3. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS PRINTED SPECIFICATIONS, INCLUDING FIELD QUALITY CONTROL AFTER INSTALLATION
4. ONLY APPROVED SPECIALIST FIRM, EMPLOYING SKILLED TRADESMAN EXPERIENCED IN FIRESTOPPING AND SMOKE SEALS APPLICATION SHALL PERFORM THE WORK OF THIS SECTION
5. CONTRACTOR SHALL SUBMIT TO THE CONSULTANT, SUITABLE DOCUMENT SIGNED BY THE MANUFACTURER OR HIS REPRESENTATIVE STATING THE CONTRACTOR HAS RECEIVED SUFFICIENT INSTALLATION INSTRUCTION FROM THE MANUFACTURER OR REPRESENTATIVE
6. THE CONTRACTOR SHALL REMOVE UP TO FOUR (4) FIRESTOPPING ASSEMBLIES FOR RANDOM INSPECTION IF REQUESTED BY THE CONSULTANT AND REPLACE AT NO COST TO THE OWNER
7. SUBMIT SHOP DRAWINGS AND PRODUCT DATA IN ACCORDANCE WITH THE SHOP DRAWINGS SECTION
8. INSTALL FIRE STOPPING AND SMOKE SEAL MATERIAL AND COMPONENTS THAT HAVE BEEN TESTED BY CERTIFIED TESTING AGENCIES (ULC, CUL OR INTERTEK) AND MANUFACTURER'S INSTRUCTIONS TO PROVIDE A FLAME RATED SEAL NOT LESS THAT THE FIRE RESISTANCE RATED OF THE SURROUNDING WALL OR FLOOR ASSEMBLY.

1.22 PIPE HANGERS AND SUPPORTS

1. PROVIDE PIPE HANGERS AND SUPPORTS. PROVIDE ADDITIONAL STRUCTURAL STEEL CHANNELS, ANGLES, INSERTS, BEAM CHAMPS & SIMILAR ACCESSORIES REQUIRED FOR HANGING OR SUPPORTING PIPE. ALL FERROUS HANGER & SUPPORT PRODUCTS ARE TO BE GALVANIZED.

2. FOR INSULATED PIPE: SIZE THE HANGER OR SUPPORT TO SUIT THE DIA. OF THE INSULATED PIPE & INSTALL THE HANGER OR SUPPORT ON THE OUTSIDE OF THE INSULATION & INSULATION FINISH.

3. HORIZONTAL ABOVE GROUND PIPING: HANGERS FOR SUSPENDED PIPE TO & INCLUDING 25 MM (1") DIA. ARE TO BE CLEVIS TYPE OR ADJUSTABLE RING TYPE, & HANGERS FOR SUSPENDED PIPE 40 MM (1 1/2") DIAMETER & LARGER ARE TO BE ADJUSTABLE CLEVIS TYPE. SPACE HANGERS & SUPPORTS IN ACCORDANCE WITH CODE REQUIREMENTS.

4. VERTICAL PIPING: SUPPORT VERTICAL PIPING BY MEANS OF STEEL OFFSET PIPE CLAMPS OR HEAVY-DUTY STEEL BRACKETS OR SOIL PIPE BRACKETS SPACED AT MAXIMUM 3 M (10') INTERVALS OR AT LEAST ONCE FOR PIPING LESS THAN 3 M (10') IN HEIGHT.

5. PIPING ON THE ROOF: SUPPORT PIPING ON THE ROOF AS FOLLOWS:

1. ON EXISTING ROOF - PROVIDE PORTABLE PIPE HANGERS (CANADA) INC. "PP" SERIES SUPPORT SYSTEM COMPONENTS TO SUIT THE PIPE, INCLUDING BASES, GALVANIZED STRUCTURAL STEEL FRAMES, & GALVANIZED STEEL PIPE HANGERS AND/OR SUPPORTS CONFORMING TO MSS SP-58, & CAREFULLY SCRAPE AWAY THE ROOFING GRAVEL, BED THE SUPPORT IN A HEAVY COVERING OF ROOFING MASTIC, THEN SCRAPE THE GRAVEL BACK UP AROUND THE SUPPORT

2. ON NEW ROOF - SUPPLY LEXCOR "FLASH-TITE" OR THALER ROOFING SPECIALTIES PRODUCTS INC. "MERS" SERIES INSULATED ALUMINUM SUPPORT RISERS TO SUIT THE APPLICATION, ALL REQUIRED ACCESSORIES, CHAMBER, TYPE, ADJUSTABLE CROSS MEMBERS, & GALVANIZED STEEL PIPE HANGERS AND/OR SUPPORTS CONFORMING TO MSS TYPE SP-58, & HAND TO THE ROOFING TRADE FOR INSTALLATION AT REQUIRED SPACING

6. FIRE PROTECTION PIPING - GENERALLY AS ABOVE, BUT ULC LISTED AND/OR FM APPROVED, & IN ACCORDANCE WITH CHAPTER REQUIREMENTS OF THE NFPA STANDARD APPLICABLE TO THE PIPING SYSTEM

7. ISOLATION FOR BARE COPPER TUBING: ISOLATE HANGERS, SUPPORT OR SECUREMENTS FOR HORIZONTAL COPPER TUBING FROM THE PIPE BY MEANS OF STRIPS OF FLEXIBLE RUBBER INSERTS.

8. INSULATION PROTECTION SHIELDS: FOR INSULATED HORIZONTAL PIPING TO & INCLUDING 40 MM (1 1/2") DIA., PROVIDE GALVANIZED STEEL INSULATION PROTECTION SHIELDS BETWEEN THE INSULATION & THE HANGER OR SUPPORT. INSTALL SHIELDS IMMEDIATELY AFTER THE PIPE IS INSULATED.

9. PIPE SUPPORT FROM STEEL DECK: DO NOT SUPPORT PIPING FROM STEEL DECK WITHOUT WRITTEN CONSENT FROM THE CONSULTANT.

10. HANGER RODS: ELECTRO-GALVANIZED CARBON STEEL (UNLESS OTHERWISE SPECIFIED), ROUND, THREADED, COMPLETE WITH CAPTIVE MACHINE NUTS WITH WASHERS AT HANGERS, SIZED TO SUIT THE LOADING IN ACCORDANCE WITH TABLE 3 IN MSS SP-58.

1.23 SUPPLY OF ACCESS DOORS

1. SUPPLY PRIME COATED STEEL ACCESS DOORS FOR MECHANICAL WORK WHICH MAY NEED MAINTENANCE OR REPAIR BUT WHICH IS CONCEALED IN INACCESSIBLE CONSTRUCTION. ACCESS DOORS ARE TO BE C/W MOUNTING & FINISHING FEATURES TO SUIT THE CONSTRUCTION IN WHICH THEY ARE TO BE INSTALLED, & SIZES ARE TO SUIT THE CONCEALED WORK. ACCESS DOORS IN FIRE RATED CONSTRUCTION ARE TO BE ULC LISTED AND LABELLED AND OF A RATING TO MAINTAIN THE FIRE SEPARATION INTEGRITY. RECESSED DOOR TYPE ACCESS DOORS LOCATED IN SURFACES WHERE SPECIAL FINISHES ARE REQUIRED ARE TO BE CONSTRUCTED OF STAINLESS STEEL WITH A #4 FINISH.

1.24 ELECTRIC MOTORS

1. MOTORS ARE TO CONFORM TO EEMAC STANDARD MGI, APPLICABLE IEEE STANDARDS, & APPLICABLE CSA C22.2 STANDARDS, & MEET NEMA STANDARDS FOR MAXIMUM SOUND LEVEL RATINGS UNDER FULL LOAD. THE EFFICIENCY OF 1 PHASE AC MOTORS TO 1 HP IS TO BE IN ACCORDANCE WITH CAN/CSA C747. THE EFFICIENCY OF 3 PHASE MOTORS 1 HP & LARGER IS TO BE IN ACCORDANCE WITH CAN/CSA C390 OR IEEE 112B.

1.25 ELECTRICAL POWER & CONTROL WIRING

1. LINE AND LOAD SIDE POWER WIRING FOR MECHANICAL WORK WILL BE DONE AS PART OF THE ELECTRICAL WORK.
2. DO ALL REQUIRED CONTROL WIRING SHOWN AND SPECIFIED.

1.26 MECHANICAL WORK IDENTIFICATION

1. IDENTIFY ALL NEW/RELOCATED MECHANICAL WORK IN ACCORDANCE WITH EXISTING IDENTIFICATION STANDARDS AT THE SITE, OR, IF ALL NEW WORK OR NO EXISTING SITE STANDARD, IDENTIFY NEW EXPOSED PIPING & DUCTWORK SUCH THAT IT CAN BE EASILY SEEN.

2. PIPING: PAINT GAS PIPING WITH PRIMER & 2 COATS OF YELLOW PAINT IN ACCORDANCE WITH CODE

- REQUIREMENTS. FOR ELECTRICALLY TRACED MECHANICAL WORK INCLUDE "ELECTRICALLY TRACED". PIPE IDENTIFICATION IS TO BE EQUAL TO SMS LTD. OR BRADY VINYL PLASTIC WITH INDOOR/OUTDOOR TYPE VINYL INK LETTERING & DIRECTIONAL ARROWS. FOR PIPE TO AND INCLUDING 150 MM (6") DIA., USE COILED TYPE SNAP-ON MARKERS. FOR PIPE LARGER THAN 150 MM (6") DIA., USE SADDLE TYPE STRAP-ON MARKERS WITH 2 OPPOSITE IDENTIFICATION LOCATIONS & C/W NYLON CABLE TIES. IDENTIFICATION WORKING & COLOURS, UNLESS OTHERWISE INDICATED, IS TO BE IN ACCORDANCE WITH CAN/CSSB-24.3.

3. DUCTWORK: CUSTOM MADE MYLAR STENCILS WITH 50 MM (2") HIGH LETTERING TO ACCURATELY DESCRIBE THE DUCT SERVICE, I.E. "AHU-1 SUPPLY", C/W A DIRECTIONAL ARROW, & COLOURED INK WITH INK PADS & ROLLER APPLICATORS. INK COLOUR IS GENERALLY TO BE BLACK BUT MUST CONTRAST WITH THE LETTERING BACKGROUND.

4. EXPOSED PIPING AND DUCTWORK: IDENTIFY AT EVERY END, ADJACENT TO VALVES, STRAINERS, DAMPER & SIMILAR ACCESSORY, AT CONNECTING EQUIPMENT, ON BOTH SIDES OF PIPES & DUCTS PENETRATING FLOORS, WALLS, OR PARTITIONS, AT 6 M (20') INTERVALS ON RUNS EXCEEDING 6 M (20') IN LENGTH, AT LEAST ONCE IN EACH ROOM, & AT LEAST ONCE ON RUNS LESS THAN 6 M (20').

5. CONCEALED PIPING & DUCTWORK: IDENTIFY AT POINTS WHERE PIPES OR DUCTS ENTER & LEAVE ROOMS, SHAFTS, PIPE CHASES, FURRED SPACES, & SIMILAR AREAS, AT MAXIMUM 6 M (20') INTERVALS ABOVE SUSPENDED ACCESSIBLE CEILINGS, AT LEAST ONCE IN EACH ROOM, AT EACH ACCESS DOOR LOCATION, & AT EACH PIECE EQUIPMENT, AUTOMATIC VALVE, ETC.

6. EQUIPMENT: PROVIDE AN IDENTIFICATION NAMEPLATE FOR PIECE OF EQUIPMENT, INCLUDING CONTROL VALVES, MOTORIZED DAMPERS, INSTRUMENTS, & SIMILAR PRODUCTS. NAMEPLATES ARE TO BE 2-PLY LAMINATED BLACK/WHITE PLASTIC, MINIMUM 12 MM X 50 MM (1/2" X 2") FOR SMALLER ITEMS, MINIMUM 25 MM X 65 MM (1" X 2 1/2") FOR EQUIPMENT, & MINIMUM 50 MM X 100 MM (2" X 4") FOR CONTROL PANELS & SIMILAR ITEMS. SECURE NAMEPLATES WITH STAINLESS STEEL SCREWS UNLESS PROHIBITIVE, IN WHICH CASE USE EPOXY CEMENT. EQUIPMENT IDENTIFICATION TERMINOLOGY IS TO BE AS PER DRAWING IDENTIFICATION.

7. VALVE TAGS & CHART: ATTACH A TAG TO EACH NEW VALVE, EXCEPT VALVES LOCATED AT THE EQUIPMENT THEY CONTROL. TAGS ARE TO BE COLOURED, 40 MM (1 1/2") SQUARE, 2-PLY LAMINATED PLASTIC WITH BEVELLED EDGES, RED-WHITE, GREEN-WHITE, YELLOW-BLACK, ETC., TO MATCH THE PIPING IDENTIFICATION COLOUR, C/W A 3.2 MM (1/8") DIA. BY 100 MM (4") LONG BRASS PLATED STEEL BEAD CHAIN, AND 4 LINES OF ENGRAVED IDENTIFICATION WORKING TO INDICATE THE VALVE NUMBER, SIZE, SERVICE, & NO OR NC. PREPARE A COMPUTER PRINTED CHART TO LIST TAGGED VALVES. IF AN EXISTING CHART IS AVAILABLE, VALVE TAG NUMBERING IS TO BE AN EXTENSION OF EXISTING NUMBERING & THE NEW VALVE TAG CHART IS TO INCORPORATE THE EXISTING CHART, FRAME & GLAZE 1 COPY OF THE CHART & AFFIX TO A WALL IN EACH MAIN MECHANICAL AND/OR EQUIPMENT ROOM.

1.27 FASTENING AND SECURING HARDWARE

1. PROVIDE FASTENING & SECURING HARDWARE TO MAINTAIN INSTALLATIONS ATTACHED TO THE STRUCTURE OR TO FINISHED FLOORS, WALLS & CEILINGS IN A SECURE & RIGID MANNER CAPABLE OF WITHSTANDING THE DEAD LOADS, LIVE LOADS, SUPERIMPOSED DEAD LOADS, & ANY VIBRATION OF THE INSTALLED PRODUCTS. WHERE CONSTRUCTION IS NOT SUITABLE TO SUPPORT THE LOADS, PROVIDE ADDITIONAL FRAMING OR SPECIAL FASTENERS TO ENSURE PROPER SECUREMENT TO THE STRUCTURE. DO NOT ATTACH FASTENERS TO STEEL DECK WITHOUT WRITTEN CONSENT FROM THE CONSULTANT.

1.28 GENERAL RE: INSTALLATION OF VALVES

1. GENERALLY, VALVE LOCATIONS ARE INDICATED OR SPECIFIED, HOWEVER, REGARDLESS OF LOCATIONS SHOWN, PROVIDE SHUT-OFF VALVES TO ISOLATE ALL SYSTEMS, AT VALVE RISERS, AT VALVE TAKE-OFFS, AT VALVE TAKE-OFFS AT MAINS & RISERS, TO ISOLATE EQUIPMENT, TO PERMIT WORK PHASING AS REQUIRED, & WHEREVER ELSE REQUIRED FOR PROPER SYSTEM OPERATION & MAINTENANCE.

1.29 PIPE LEAKAGE TESTING

1. BEFORE NEW PIPING HAS BEEN INSULATED OR CONCEALED, & BEFORE EQUIPMENT, FIXTURES AND FITTINGS HAVE BEEN CONNECTED, PRESSURE TEST PIPING FOR LEAKAGE IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND STANDARDS. HAVE COMPLETED TEST REPORT SHEETS DATED & SIGNED BY THOSE PRESENT TO CONFIRM PROPER TEST RESULTS. ENSURE THAT PIPING HAS BEEN PROPERLY FLUSHED, CLEANED & IS CLEAR OF FOREIGN MATTER PRIOR TO PRESSURE TESTING.

1.30 CONCRETE WORK FOR MECHANICAL EQUIPMENT BASES/PADS

1. UNLESS OTHERWISE SPECIFIED, PROVIDE ALL POURED CONCRETE WORK, INCLUDING REINFORCING & FORMWORK, REQUIRED FOR MECHANICAL WORK. CONCRETE IS TO BE MINIMUM 20,700 KPA READY-MIX CONCRETE IN ACCORDANCE WITH CAN/CSA-A23.1 & THE BUILDING CODE.

1.31 EXCAVATION AND BACKFILL WORK

1. UNLESS OTHERWISE SPECIFIED, DO EXCAVATION, BACKFILL & RELATED WORK REQUIRED FOR YOUR WORK. GRADE TRENCH EXCAVATIONS AS REQUIRED. UNLESS OTHERWISE SPECIFIED, BACKFILL TRENCHES WITHIN THE BUILDING WITH CLEAN SHARP SAND IN INDIVIDUAL LAYERS OF MAXIMUM 150 MM (6") THICKNESS COMPACTED TO A DENSITY OF 100% STANDARD PROCTOR. HAND COMPACT THE FIRST LAYERS UP TO A COMPACTED LEVEL OF MINIMUM 300 MM (12") ABOVE THE TOP OF THE PIPE, HAND OR MACHINE COMPACT THE BALANCE UP TO GRADE. DEPTH OF EXTERIOR TRENCHES OR THOSE IN UNHEATED INTERIOR AREAS MUST PREVENT PIPES FROM FREEZING.

2. UNLESS OTHERWISE SPECIFIED, BACKFILL TRENCHES OUTSIDE THE BUILDING (NOT UNDER ROADS, PARKING LOTS OR TRAFFIC AREAS), UP TO A COMPACTED LEVEL OF 450 MM (18") THICK ABOVE THE PIPE, HAND COMPACT TO A DENSITY OF 95% STANDARD PROCTOR, USING GRANULAR FILL. BACKFILL THE BALANCE IN 150 MM (6") LAYERS WITH APPROVED EXCAVATED MATERIAL, COMPACTED TO 95% STANDARD PROCTOR DENSITY.

3. PRIOR TO EXCAVATION, CAREFULLY CHECK INVERTS AND LOCATIONS OF EXISTING SERVICES AND REPORT ANY SERIOUS DISCREPANCY. CONTACT UTILITIES TO ACCURATELY LOCATE THEIR SERVICES.

1.32 CUTTING, DRILLING, AND PATCHING FOR MECHANICAL WORK

1. DO ALL CUTTING, DRILLING AND PATCHING OF THE EXISTING BUILDING FOR THE INSTALLATION OF YOUR WORK. CONFIRM EXACT LOCATIONS PRIOR TO CUTTING AND/OR DRILLING WORK. PATCH SURFACES, WHERE REQUIRED, TO EXACTLY MATCH EXISTING FINISHES USING TRADESMEN SKILLED IN THE PARTICULAR TRADE OR APPLICATION WORKED ON.

2. WHERE NEW PIPES PASS THROUGH EXISTING CONSTRUCTION, CORE DRILL AN OPENING SIZED TO LEAVE 12 MM (1/2") CLEARANCE AROUND PIPES OR PIPE INSULATION IN POURED CONCRETE CONSTRUCTION, DETERMINE THE LOCATION, IF ANY, OF EXISTING CONCEALED SERVICES.

3. PACK AND SEAL THE VOID BETWEEN PIPE OPENINGS AND THE PIPE OR PIPE INSULATION FOR THE LENGTH OF THE OPENING IN INTERIOR CONSTRUCTION WITH ROCK WOOL, & SEAL BOTH ENDS OF THE OPENING WITH NON-HARDENING SILICONE BASE CAULKING. SLEEVES IN EXTERIOR WALLS BELOW GRADE (& ANY OTHER WALL WHERE WATER LEAKAGE MAY BE A PROBLEM) WITH LINK TYPE MECHANICAL SEALS.

1.33 ROOFING WORK

1. DO FLASHING WORK, INCLUDING COUNTER-FLASHING, FOR MECHANICAL WORK PENETRATING AND/OR SET IN THE ROOF.

2. WHERE ROOF REVISIONS AND/OR REPLACEMENTS ARE PART OF THE PROJECT, INCLUDE FOR DISCONNECTING, LIFTING, OR TEMPORARILY REMOVING MECHANICAL EQUIPMENT ON THE ROOF AS REQUIRED TO PERMIT COMPLETION OF THE ROOFING WORK, & FOR RE-INSTALLING THE EQUIPMENT WHEN THE ROOFING WORK IS COMPLETE.

1.34 WASTE MANAGEMENT AND DISPOSAL

1. SEPARATE AND RECYCLE WASTE MATERIALS IN ACCORDANCE WITH REQUIREMENTS OF CANADIAN CONSTRUCTION & ASSOCIATION STANDARD DOCUMENT CCA #1, A BEST PRACTICES GUIDE TO SOLID WASTE REDUCTION. DO NOT LET WASTE MATERIALS ACCUMULATE AT THE SITE.

1.35 DEMOLITION WORK

1. WHERE INDICATED ON THE DRAWINGS, DISCONNECT & REMOVE MECHANICAL WORK, INCLUDING HANGERS, SUPPORTS, INSULATION, & SIMILAR ITEMS. CUT BACK OBSOLETE PIPING BEHIND FINISHES, IDENTIFY, & CAP WATER-TIGHT. ESTIMATE THE EXTENT & COST OF THE WORK AT THE SITE DURING BIDDING PERIOD SCHEDULED SITE VISITS(5). PERFORM DEMOLITION WORK IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA-S350, CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES.

2. IF EXISTING ISOLATION VALVES ARE NOT AVAILABLE TO ISOLATE SECTIONS OF PIPING TO BE REMOVED, PROVIDE SUCH VALVES.

3. UNLESS OTHERWISE SPECIFIED, REMOVE & DISPOSE OF DEMOLISHED MATERIALS WHICH ARE NOT TO BE RELOCATED OR REUSED.

4. REFRIGERATION EQUIPMENT: REMOVE & RECLAIM REFRIGERANT FROM EQUIPMENT TO BE DECOMMISSIONED, REMOVE AND/OR ALTERED IN ACCORDANCE WITH REFRIGERANT MANAGEMENT CANADA GUIDELINES, & GOVERNING CODES AND REGULATIONS. DO NOT UNDER ANY CIRCUMSTANCES VENT REFRIGERANT FROM EXISTING EQUIPMENT TO ATMOSPHERE. DISPOSE OF RECLAIMED REFRIGERANT BY ENGAGING THE SERVICES OF A LICENSED FIRM SPECIALIZING IN RECYCLING OF RECLAIMED REFRIGERANT. SUBMIT DOCUMENTATION TO CONFIRM THAT THE REFRIGERANT HAS BEEN PROPERLY REMOVED FROM THE SITE & RECYCLED OR DISPOSED OF.

1.36 TESTING, ADJUSTING & BALANCING (TAB)

2. PERFORM TAB OF MECHANICAL SYSTEMS WHICH INCLUDE, AS APPLICABLE, DOMESTIC HOT & TEMPERED WATER SYSTEMS, & HVAC & CONTROL SYSTEMS IN ACCORDANCE WITH EITHER THE NATIONAL STANDARDS FOR A TOTAL SYSTEM BALANCE PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL, OR THE PROCEDURAL STANDARDS FOR TESTING, ADJUSTING & BALANCING OF ENVIRONMENTAL SYSTEMS PUBLISHED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU. EMPLOY AN AGENCY CERTIFIED BY EITHER THE ASSOCIATED AIR BALANCE COUNCIL OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU.

3. SUBMIT ELECTRONIC COPIES OF DRAFT REPORTS, UPON APPROVAL OF DRAFT REPORTS, SUBMIT 2 COPIES OF FINAL REPORTS WITH SCHEMATIC SYSTEM DIAGRAMS & OTHER DATA IN IDENTIFIED 3-RING BINDERS.

4. SPOT CHECK FINAL REPORT RESULTS WITH THE CONSULTANT, & IF RESULTS DO NOT, ON A CONSISTENT BASIS, AGREE WITH THE FINAL REPORT, REBALANCE THE SYSTEMS INVOLVED, RESUBMIT THE FINAL REPORT, & AGAIN PERFORM SPOT CHECKS WITH THE CONSULTANT.

5. BALANCE AIR DISTRIBUTION SYSTEMS INCLUDING, BUT NOT LIMITED TO:

1. ALL NEW DUCT DISTRIBUTION SYSTEMS INCLUDING TERMINAL VAV BOXES

2. EXISTING EXHAUST SYSTEM EF-309 AND EXISTING SUPPLY SYSTEM SF-309

3. ANY EXISTING DIFFUSERS/GRILLES ON THE SYSTEM.

4. POSITIVE PRESSURE ROOMS, INCLUDING PRESSURE DIFFERENTIAL TESTING

6. BALANCE WATER DISTRIBUTION SYSTEMS INCLUDING, BUT NOT LIMITED TO:

1. DOMESTIC HOT WATER RECIRCULATION SYSTEM DOMESTIC HOT WATER RECIRCULATION SYSTEM

- ii. PIPING, LARGER THAN 100 MM (4") DIA. - 40 MM (1½") THICK
- 7.HOT WATER HEATING PIPING, SUPPLY & RETURN:
- i. TO 30 MM (1 ⅝ ") DIA. - 40 MM (1 ⅝ ") THICK
- ii. 40 MM (1 ⅝ ") DIA. - 40 MM (1½") THICK
- iii. LARGER THAN 40 MM (1½") DIA. - 40 MM (1½") THICK
- 8.GLYCOL SOLUTION HEATING OR HEAT RECLAIM PIPING, SUPPLY & RETURN
- ijj. TO 30 MM (1 ⅝ ") DIA. - 25 MM (1") THICK
- ii. 40 MM (1 ⅝ ") DIA. - 40 MM (1½") THICK
- iii. LARGER THAN 40 MM (1½") DIA. - 50 MM (2") THICK
- 9.PIPING AS ABOVE LOCATED INSIDE THE BUILDING IN UNHEATED AREAS OR OUTSIDE THE BUILDING & INDICATED TO BE TRACED WITH ELECTRIC HEATING CABLE:
- i. 50 MM (2") THICK
- 10."WET" TYPE FIRE PROTECTION PIPING IN UNHEATED AREAS & INDICATED TO BE TRACED WITH ELECTRIC HEATING CABLE:
- i. 50 MM (2") THICK
- 11.REFRIGERANT PIPING INSIDE BUILDING:
- i. 25 MM (1") THICK
12. STEAM PIPING
- i. TO 100MM (4") - 65 MM (2½") THICK
- ii. LARGER THAN 100 MM (4") DIA. - 75 MM (3") THICK
- 13.CONDENSATE
- i. TO & INCLUDING 50 MM (2") DIA. - 40 MM (1½") THICK
- ii. 65 MM (2 ½ ") DIA AND ABOVE - 50 MM (2") THICK
- 12.PIPING INSULATION-NON-COMBUSTIBLE INSULATION: WHERE PIPE (INSIDE THE BUILDING & ABOVE GROUND) WHICH IS TO BE INSULATED AS SPECIFIED ABOVE PENETRATES FIRE RATED CONSTRUCTION, PROVIDE NON-COMBUSTIBLE, RIGID, SECTIONAL, LONGITUDINALLY SPLIT MINERAL FIBRE PIPE INSULATION WITH A REINFORCED VAPOUR BARRIER JACKET IN ACCORDANCE WITH REQUIREMENTS OF CAN/ULC-S114 & COMPATIBLE WITH FIRESTOPPING AS PER CAN/ULC-S101.
- 13.PIPING INSULATION-FLEXIBLE ELASTOMERIC INSULATION: INSULATE REFRIGERANT PIPING OUTSIDE THE BUILDING WITH 25 MM (1") THICK CLOSED CELL, SLEEVE TYPE, LONGITUDINALLY SPLIT, SELF-SEAL, FOAMCELL PLASTIC PIPE INSULATION IN ACCORDANCE WITH REQUIREMENTS OF ASTM C534 & EQUAL TO ARMACEL AP/ARMAFLEX SS & INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTION TO PRODUCE A WATER-TIGHT INSTALLATION.
- 14.BARRIER-FREE LAVATORY INSULATION KITS: PROVIDE REMOVABLE, FLEXIBLE, REUSABLE, WHITE MOULDED PLASTIC INSULATION KITS EQUAL TO ZESTON "SNAP-TRAP" FOR BARRIER-FREE LAVATORY DRAIN PIPING & WATER SUPPLIES EXPOSED UNDER BARRIER-FREE LAVATORIES.
- 15.EQUIPMENT INSULATION-BLANKET MINERAL FIBRE: INSULATE EQUIPMENT LISTED BELOW WITH ROLL FORM MINERAL FIBRE BLANKET TYPE INSULATION EQUAL TO JOHNS MANVILLE INC. TYPE 150 "MICROUTE" TO ASTM STANDARD C553, 24 KG/M³ (1½ LB./FT.³) DENSITY, WITH A FACTORY APPLIED VAPOUR BARRIER FACING:
1. CHILLED WATER AND/OR DOMESTIC COLD WATER PUMP CASINGS - 40 MM (1½") THICK
- 2.ROOF DRAIN SUMPS WHERE INSIDE THE BUILDING - 25 MM (1") THICK
- 3.WATER METERS(S) - 40 MM (1½") THICK
- 16.EQUIPMENT INSULATION-SEMI-RIGID MINERAL FIBRE INSULATION: INSULATE THE EQUIPMENT LISTED BELOW WITH ROLL FORM SEMI-RIGID MINERAL FIBRE BOARD INSULATION WITH A FACTORY APPLIED VAPOUR BARRIER FACING CONSISTING OF LAMINATED ALUMINUM FOL & KRAFT PAPER, EQUAL TO JOHNS MANVILLE INC. PIPE AND TANK INSULATION TO ASTM STANDARD C1393:
- 1.UNINSULATED DOMESTIC HOT WATER STORAGE TANK(S) - 50 MM (2") THICK
- 2.SHELL & TUBE TYPE HEAT EXCHANGERS - 50 MM (2") THICK
- 3.HEATING MAIN AIR SEPARATOR - 50 MM (2") THICK
- 4.CHILLED WATER EXPANSION TANK - 40 MM (1½") THICK
- 17.EQUIPMENT INSULATION-REMOVABLE & REUSABLE TYPE: INSULATE THE EQUIPMENT LISTED BELOW WITH CUSTOM DESIGNED & MANUFACTURED REMOVABLE & REUSABLE INSULATION COVERS EQUAL TO CROSBYSKY DEWAR INC. MINIMUM 95 KG/M³ (6 LB./FT.³) DENSITY CERAMIC FIBRE INSULATION SEMI BETWEEN MINIMUM 542.5 G/M² (1.8 OZ./FT.²) WEIGHT SILICONE IMPREGNATED FIBREGLASS FABRIC IN A QUILTED PATTERN USING DOUBLE STITCHES MADE WITH KELVAR OR TEFLON COATED FIBREGLASS THERAPL OVERLAP FLAPS ARE TO BE SECURED USING LACES, SNAPS, OR VELCRO DOUBLE STITCHED IN PLACE:
1. PLATE TYPE HEAT EXCHANGERS(S)
- 2.150 MM (6") DIAMETER & LARGER PIPING STRAINERS, BACKFLOW PREVENTERS, ETC.
- 3.PROVIDE "WRAP TYPE" REMOVABLE AND REUSABLE INSULATION COVERS EQUAL TO INSUFAB SYSTEMS INC. COVERS FOR "COLD" CIRCUIT BALANCING VALVES, BACKFLOW PREVENTERS, & SIMILAR ITEMS IN PIPING LESS THAN 150 MM (6") DIA
- 18.MINERAL FIBRE INSULATION-DUCTWORK INSIDE BUILDING: INSULATE THE FOLLOWING DUCTWORK SYSTEMS INSIDE THE BUILDING WITH MINERAL FIBRE INSULATION OF THE THICKNESS INDICATED BELOW. INSULATION TO BE TYPE B-2 AS DEFINED BY BOCA STANDARD SPECIFICATION 1502:
- 1.FRESH AIR INTAKE DUCTWORK, CASINGS & PLENUMS TO & INCLUDING MIXING PLENUMS OR SECTIONS, OR, IF BOTH PLENUMS OR SECTIONS ARE NOT PROVIDED, TO THE 1ST HEATING COIL, OR IF BOTH MIXING PLENUMS OR SECTIONS & HEATING COIL SECTIONS ARE NOT PROVIDED, & THE FRESH AIR IS NOT TEMPERED, THEN THE FRESH AIR DUCTWORK SYSTEM COMPLETE
- i. 40 MM (1½") THICK
- 2.MIXED SUPPLY AIR OR PREHEATED SUPPLY AIR CASINGS, PLENUMS & SECTIONS TO & INCLUDING THE FAN SECTION WHERE NOT FACTORY INSULATED:
- i. 25 MM (1") THICK
- 3.SUPPLY AND RETURN AIR DUCTWORK, EXCEPT FOR DUCTWORK EXPOSED IN THE AREA IT SERVES:
- i. 25 MM (1") THICK RIGID BOARD OR 40 MM (1½") THICK FLEXIBLE BLANKET
- 4.EXHAUST DISCHARGE DUCTWORK FOR A DISTANCE OF 3 M (10') DOWNSTREAM (BACK) FROM EXHAUST OPENINGS TO ATMOSPHERE, INCLUDING EXHAUST PLENUMS WITHIN THE 3 M (10') DISTANCE:
- i. 25 MM (1") THICK RIGID BOARD OR 40 MM (1½") THICK FLEXIBLE BLANKET
- 5.ANY OTHER DUCTWORK, CASINGS, PLENUMS OR SECTIONS SPECIFIED OR DETAILED ON THE DRAWINGS TO BE INSULATED - THICKNESS AS SPECIFIED.
- 6.ACCEPTABLE MATERIALS:
- i. EQUAL TO JOHNS MANVILLE INC. TYPE B14 "SPIN-GLAS" PREFORMED BOARD TYPE INSULATION TO ASTM C612, WITH A FACTORY APPLIED REINFORCED ALUMINUM FOL & KRAFT PAPER FACING FOR EXPOSED RECTANGULAR DUCTWORK,
- ii. ROLL FORM SEMI-RIGID INSULATION EQUAL TO MULTI-GLASS INSULATION LTD. "MULTI-FLEX MKF" TO ASTM C1393 WITH A FACTORY APPLIED VAPOUR BARRIER FACING FOR EXPOSED ROUND & OVAL DUCTS,
- iii. BLANKET TYPE ROLL FORM INSULATION EQUAL TO JOHNS MANVILLE INC. DUCT WRAP TYPE 150 "MICROUTE" TO ASTM STANDARD C553, 24 KG/M³ (1½ LB./FT.³) DENSITY, 40 MM (1½") THICK WITH A FACTORY APPLIED VAPOUR BARRIER FACING FOR CONCEALED RECTANGULAR, ROUND & OVAL DUCTWORK.
- 19.FLEXIBLE ELASTOMERIC INSULATION-DUCTWORK OUTSIDE BUILDING: INSULATE ALL EXPOSED EXTERIOR DUCTWORK (EXCEPT FRESH AIR INTAKE DUCTWORK) & ASSOCIATED PLENUMS AND/OR CASINGS WITH 50 MM (2") THICK FLEXIBLE ELASTOMERIC SHEET INSULATION EQUAL TO ARMACEL AP/ARMAFLEX SA GLOUED CELL, SELF-ADHERING ELASTOMERIC EPDM RUBBER INSULATION IN ACCORDANCE WITH ASTM C534, APPLIED IN 25 MM (1") THICK LAYERS WITH STAGGERED TIGHTLY BUTTED JOINTS TO PRODUCE A WEATHER-TIGHT INSTALLATION.
- 20.INSULATION COATINGS, FINISHES & JACKETS: PROVIDE COATINGS, FINISHES OR JACKETS AS FOLLOWS
- 1.CANVAS: ULC LISTED AND LABELLED, 25/50 RATED, ROLL FORM, MINIMUM 170 G (6 OZ.) CANVAS JACKET MATERIAL SECURED IN PLACE WITH A FULL 100% COVERING COAT OF LAONGING ADHESIVE FOR, UNLESS OTHERWISE SHOWN AND/OR SPECIFIED, EXPOSED MINERAL FIBRE INSULATION INSIDE THE BUILDING
- 2.WHITE PVC: ROLL FORM SHEET & FITTING COVERS EQUAL TO JOHNS MANVILLE INC. "ZESTON" 300, 25/50 RATED, FOR EXPOSED MINERAL FIBRE PIPE INSULATION IN WET OR WASH-DOWN AREAS
- 3.RIGID ALUMINIUM: EQUAL TO CHILDERS METALS (ITW INSULATION SYSTEMS CANADA) "LOCK-ON EMBOSSED
- ALUMINUM JACKET MATERIAL TO ASTM B209, FACTORY CUT TO SIZE & C/W MOISTURE BARRIER & CONTINUOUS MODIFIED PITTSBURGH Z-LOCK, "FABSTRAPS" & BUTT STRAPS TO COVER END TO END JOINTS, & 2-PIECE EPOXY COATED PRESSED ALUMINUM WITH WEATHER LOCKING EDGES FOR EXPOSED MINERAL FIBRE PIPE INSULATION OUTSIDE THE BUILDING OR IN "WET" AREAS.
- 4.PROTECTIVE COATING - FLEXIBLE FOAM ELASTOMERIC INSULATION: EQUAL TO ARMACEL "M ARMARFLEX" WEATHERPROOF, WATER-BASED LATEX ENAMEL FINISH, APPLY 1 COAT FOR INTERIOR INSULATION & 2 COATS (WITH 24 HOURS BETWEEN COATS) FOR INSULATION OUTSIDE THE BUILDING
- 21.INSULATION APPLICATION REQUIREMENTS: UNLESS OTHERWISE SPECIFIED APPLY INSULATION MATERIALS IN ACCORDANCE WITH REQUIREMENTS OF THE CURRENT EDITION OF THE THERMAL INSULATION ASSOCIATION OF CANADA NATIONAL INSTALLATION STANDARD.
- FIRE PROTECTION**
1. PROVIDE FIRE PROTECTION WORK AS SHOWN & SPECIFIED.
2. SYSTEM DESIGNER: FIRE PROTECTION WORK IS TO BE DESIGNED BY A FULLY QUALIFIED MECHANICAL P. ENG. REGISTERED & LICENSED IN THE JURISDICTION OF THE PROJECT. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BC TO PERFORM DETAILED SPRINKLER DESIGN AND HYDRAULIC LOADS. THE DRAWINGS SHALL BE SIGNED AND SEALED C/W LETTERS OF ASSURANCE.
3. STANDPIPE SYSTEM DESIGN CRITERIA: FIRE PROTECTION STANDPIPE WORK IS TO BE DESIGNED IN ACCORDANCE WITH NFPA 14 AND PROVINCIAL STANDARDS, & WHERE REQUIRED, LOCAL BUILDING & FIRE DEPARTMENT REQUIREMENTS & THE STANDARDS OF THE OWNER'S INSURER.
4. SPRINKLER SYSTEM DESIGN CRITERIA: FIRE PROTECTION SPRINKLER WORK IS TO BE DESIGNED IN ACCORDANCE WITH NFPA 13 & PROVINCIAL STANDARDS, & WHERE REQUIRED, LOCAL BUILDING & FIRE DEPARTMENT REQUIREMENTS & THE STANDARDS OF THE OWNER'S INSURER.
5. SUBMITTALS: SUBMIT AS SHOP DRAWINGS, CAD WHITE PRINT LAYOUT DRAWINGS INDICATING SOURCE OF WATER SUPPLY, WITH PIPE SIZE & TEST FLOW & PRESSURE, "HEAD-END" EQUIPMENT PIPING SCHEMATIC, PIPE ROUTING & SIZING, & RISERS, ALL SIGNED & SEALED BY THE DESIGN P. ENG., AS WELL AS CALCULATIONS & A LIST OF DESIGN DATA USED IN PREPARING THE CALCULATIONS, SYSTEM LAYOUT & SIZING.
6. EXISTING SYSTEM: VERIFY THE WORKING CONDITION OF EXISTING FIRE PROTECTION SYSTEM EQUIPMENT WHICH HAS DIRECT INTERFACE WITH THE NEW WORK & IS TO REMAIN. REPLACE WITH NEW EQUIPMENT WHERE NECESSARY. WHERE SHUTDOWN OF A ZONE IS REQUIRED TO PERFORM THE WORK, THE CONTRACTOR IS TO COORDINATE A FIRE WATCH FOR THE DURATION OF THE SHUTDOWN.
7. PIPING: DO PIPING WORK IN ACCORDANCE WITH "REVIEWED" SHOP DRAWINGS & NFPA REQUIREMENTS. "WET" ZONE STEEL PIPING, FITTINGS, UNIONS, COUPLINGS & FLANGES FOR FIRE PROTECTION WORK EXPOSED TO WEATHER EITHER INSIDE OR OUTSIDE THE BUILDING (INCLUDING PARKING GARAGES), ARE TO BE GALVANIZED. RISERS OF PIPE HANDGERS, SUPPORTS, & SIMILAR HARDWARE USED FOR GALVANIZED STEEL PIPING ARE TO BE ELECTRO-GALVANIZED.
- 1.PIPE SIZES, PIPE ROUTING, EQUIPMENT QUANTITIES & LOCATIONS, & LAYOUT OF WORK SHOWN ON THE DRAWINGS ARE TO ASSIST YOU DURING THE TENDERING PERIOD. ENSURE ADEQUATE FIRE PROTECTION SYSTEM COVERAGE, DO NOT REDUCE THE SIZE OF THE FIRE PROTECTION SYSTEM MAIN OR RE-ROUTE THE MAIN UNLESS APPROVED.
2. SLOPE HORIZONTAL PIPING SO THAT IT MAY BE COMPLETELY DRAINED. PROVIDE CAPPED DRAIN POINTS.
- 3.PROVIDE A PRESSURE GAUGE AT THE HIGHEST OUTLET IN EACH STANDPIPE RISER. WHERE POSSIBLE, LOCATE GAUGES IN FIRE HOSE CABINETS.
- 4.WHEN FIRE PROTECTION WORK IS COMPLETE, TEST THE SYSTEM COMPONENTS & THE OVERALL SYSTEM(S) & SUBMIT COMPLETED NFPA MATERIAL & TEST CERTIFICATE(S), & ANY OTHER DOCUMENTATION REQUIRED.
- 5.PROVIDE SHUT-OFF & CHECK VALVES WHERE SHOWN & WHEREVER ELSE REQUIRED.
- 6.SCHEDULE 40 MILD BLACK CARBON STEEL, ASTM A53, GRADE B, C/W FITTINGS & COUPLINGS EQUAL TO VICTAULIC "TIRELOCK" FITTINGS & VICTAULIC STYLE 005 RIGID COUPLING JOINTS, OR, SCHEDULE 40 MILD BLACK CARBON STEEL, ASTM A53, GRADE B, C/W CLASS 125 CAST IRON SWEDED FITTINGS TO ANSI/ASME B16.4
- 8.DOUBLE DETECTOR CHECK VALVE PROVIDE A DOUBLE DETECTOR CHECK VALVE DETECTOR ASSEMBLY WITH IN THE FIRE PROTECTION MAIN. EQUIP THE ASSEMBLY WITH INLET & OUTLET SHUT-OFF VALVES. SUPPORT EACH END FROM THE FLOOR BY MEANS OF FLANGED PIPE SUPPORTS WITH SADDLES.
9. VALVE SUPERVISORY SWITCHES: EQUIP EACH SHUT-OFF VALVE WITH A SUPERVISORY SWITCH & IDENTIFY WITH A 150MM (6") SQUARE, ENGRAVED, LAMINATED RED-WHITE PLASTIC TAG TO CORRESPOND WITH SUPERVISED VALVE NUMBERING SPECIFIED AND/OR SHOWN AS PART OF THE ELECTRICAL WORK FIRE ALARM SYSTEM.
10. FIRE DEPARTMENT CONNECTION: PROVIDE A FIRE DEPARTMENT CONNECTION(S) WHERE SHOWN. CONFIRM EXACT LOCATION(S) PRIOR TO ROUGH-IN. CONFIRM FINISH PRIOR TO ORDERING. EQUIP EACH CHECK VALVE WITH A BALL DRIP TO DRAIN PIPING BETWEEN THE FIRE DEPARTMENT CONNECTION & THE CHECK VALVE, & EXTEND DRAINAGE PIPING FROM THE OUTLET OF THE BALL DRIP TO THE NEAREST SUITABLE FLOOR DRAIN.
11. LOSS OF PRESSURE SENSOR: SUPPLY & MOUNT A PRESSURE SENSOR IN THE FIRE PROTECTION PIPING MAIN TO ACTIVATE A "LOSS OF PRESSURE" TROUBLE ALARM SHOULD MUNICIPAL WATER SERVICE PRESSURE FALL BELOW THE ACCEPTABLE LEVEL. SET THE ALARM PRESSURE TO SUIT SITE CONDITIONS. CONFIRM THE SETTING ON SITE. IDENTIFY THE PRESSURE SENSOR & ITS NORMAL SETTING WITH A 150MM (6") SQUARE RED-WHITE LAMINATED PLASTIC TAG ENGRAVED TO READ, I.E. LOSS OF WATER PRESSURE SENSOR - NORMAL SETTING 210 KPA. CONFIRM WORKING PRIOR TO ENGRAVING.
14. FLOW ALARM SWITCHES: PROVIDE WATER FLOW ALARM SWITCHES IN ZONE PIPING WHERE SHOWN. ADJUST TO SUIT SITE WATER PRESSURE CONDITIONS. CHECK & TEST OPERATION. IDENTIFY WITH A 150MM (6") SQUARE RED-WHITE LAMINATED ENGRAVED PLASTIC TAG. CONFIRM WORKING PRIOR TO ENGRAVING.
15. ALARM CHECK VALVES: PROVIDE ALARM CHECK VALVES, C/W TRIM, FOR WET ZONE FIRE PROTECTION SPRINKLER PIPING WHERE SHOWN. CHECK AND TEST OPERATION & ADJUST TO SUIT SITE WATER PRESSURE CONDITIONS. IDENTIFY WITH A 150MM (6") SQUARE RED-WHITE LAMINATED ENGRAVED PLASTIC TAG. CONFIRM WORKING PRIOR TO ENGRAVING.
16. SPRINKLER HEADS: PROVIDE SPRINKLER HEADS OF THE TYPES IN ACCORDANCE WITH THE DRAWING SCHEDULE. CAREFULLY COORDINATE HEAD LOCATIONS WITH ALL DRAWINGS, INCLUDING ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS, WHERE SHOWN. CONFIRM LOCATIONS PRIOR TO ROUGHING-IN. MAINTAIN MAXIMUM HEADROOM IN AREAS WITH NO CEILINGS. PROVIDE GUARDS FOR HEADS WHERE THEY ARE SUBJECT TO DAMAGE. PROVIDE HIGH TEMPERATURE HEADS IN EQUIPMENT ROOMS & SIMILAR AREAS OVER HEAT PRODUCING OR GENERATING EQUIPMENT. SUPPLY A FULL COMPLIMENT (TO FILL CABINET) OF SPARE SPRINKLER HEADS OF THE TYPES USED (MINIMUM 4 OF EACH TYPE) & PLACE IN A WALL MOUNTED STORAGE CABINET LOCATED ADJACENT TO THE SPRINKLER SYSTEM "HEAD END" EQUIPMENT.
17. FIRE HOSE CABINETS: PROVIDE FIRE HOSE CABINETS WHERE SHOWN BUT CONFIRM EXACT CABINET LOCATIONS PRIOR TO ROUGHING-IN. WHERE LOCATED IN PARKING GARAGE AREAS INSTALL ON FLOOR TO CEILING FIRE COAT PAINTED STRUCTURAL STEEL FRAMEWORKS LOCATED SO AS NOT TO BE DAMAGED BY VEHICLES.
18. FIRE EXTINGUISHERS: STORED PRESSURE, RECHARGEABLE, DRY CHEMICAL TYPE IN ACCORDANCE WITH NFPA 10 & CAN/ULC-S508, 3A10BC, RATED UNLESS OTHERWISE SPECIFIED/SHOWN, C/W PRESSURE GAUGE & WALL MOUNTING BRACKET. PROVIDE WHERE SHOWN, IF INDICATED ADJACENT TO A DOOR, INSTALL AT THE STRIKE SIDE OF THE DOOR. PROVIDE CABINETS WHERE INDICATED.
19. DRAIN: SYSTEM DRAINS SHALL BE PIED TO FLOOR DRAINS. PROVIDE INSPECTOR TEST VALVES ON EACH FLOOR OF EACH SYSTEM. PROVIDE MAIN DRAINS AT ALL SYSTEM AND FLOOR CONTROL VALVES. DISCHARGE INTO A DRAIN RISER. PROVIDE A FLOOR DRAIN AT THE BASE OF EACH RISER.
- DOMESTIC WATER SYSTEMS**
1. THE INSTALLATION SHALL CONFORM TO THE BC PLUMBING CODE 2018
2. PROVIDE DOMESTIC WATER PIPING SYSTEMS. ALL PRODUCTS IN CONTACT WITH DOMESTIC WATER ARE TO BE NSF/ANSI 61 CERTIFIED LEAD FREE.
3. DOMESTIC WATER SERVICE: MAKE ARRANGEMENTS WITH THE MUNICIPALITY FOR INSTALLATION OF DOMESTIC WATER SERVICE FROM THE MUNICIPAL MAIN TO THE PROPERTY LINE. PAY CHARGES LEVIED BY THE MUNICIPALITY FOR THE SERVICE CONNECTION WORK.
4. PIPING INSTALLATION: CONFORM TO THE FOLLOWING REQUIREMENTS:
1. DO NOT CONCEAL ANY PLUMBING INSTALLATION, WHETHER BURIED OR WITHIN WALLS PRIOR TO REVIEW BY THE CONSULTANT OR LOCAL AUTHORITY. ENSURE 72 HOURS WRITTEN NOTICE IS PROVIDED TO EACH PARTY PRIOR TO REQUIREMENT FOR INSPECTION OF THE WORK
2. FIRE STOP ALL PENETRATIONS THROUGH RAFT SEPARATIONS. PROVIDE NECESSARY THERMAL INSULATION AND VAPOUR BARRIER AT PENETRATIONS. CONTRACTOR TO PROVIDE PROFESSIONAL CERTIFICATION FROM SPECIALIST FIRE-STOPPING TRADE PRIOR TO REQUEST FOR COMPLETION OR OCCUPANCY INSPECTION, WHICHEVER IS THE EARLIER
3. IF AND WHERE REQUIRED, GRACE & SECURE U/G WATER SERVICE PIPE ENTERING THE BUILDING IN ACCORDANCE WITH MUNICIPAL STANDARDS & DETAILS & PAINT MECHANICAL RESTRAINT DEVICES WITH 2 COATS OF CORROSION RESISTANT BLACK ASPHALT BASE COATING PRIOR TO BACKFILLING
4. PROVIDE PROPER DIELECTRIC UNIONS IN CONNECTIONS BETWEEN COPPER PIPE & FERROUS PIPE OR EQUIPMENT
5. SECURE TRAP SEAL PRIMER TUBING EMBEDDED IN CONCRETE TO REINFORCING STEEL & BE PRESENT DURING THE CONCRETE POUR TO ENSURE THAT THE TUBING IS NOT DAMAGED OR DISLODGED
6. PROVIDE BALANCING VALVES IN DOMESTIC HOT WATER RECIRCULATION PIPING WHERE SHOWN OR REQUIRED
7. PROVIDE WATER METER C/W REMOTE READ-OUT AS PER THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION
8. PROVIDE UNIONS TO ALL EQUIPMENT AND VALVE CONNECTIONS FOR PIPE SIZES 65MM (2½") AND BELOW. FLANGED CONNECTIONS FOR PIPE SIZES 75MM (3") AND OVER
9. PROVIDE NECESSARY THRUST BLOCK, ANCHOR, ETC. TO UNDERGROUND WATER PIPING 100MM (4") AND LARGER AT ALL CHANGE OF DIRECTION AT THE END OF ALL MAINS AND BRANCHES
10. ALL COMBUSTIBLE MATERIALS MUST MEET THE FLAME AND SMOKE RATING FOR THE BUILDING
11. FLUSH NEW AND/OR RENOKED DOMESTIC WATER PIPING AFTER LEAKAGE TESTING IS COMPLETE, & WHEN FLUSHING IS COMPLETE, DISINFECT THE PIPING WITH A SOLUTION OF SODIUM HYPOCHLORITE TO AWWA B-300 IN ACCORDANCE WITH REQUIREMENTS OF THE MINISTRY OF ENVIRONMENT DOCUMENT ENTITLED PROCEDURE FOR DISINFECTION OF DRINKING WATER IN BC, UNDER SUPERVISION OF A P. ENG. AUTHORIZED BY THE PROFESSIONAL ENGINEERS OF BC TO PERFORM SUCH WORK, & WHEN DISINFECTING IS COMPLETE, SUBMIT WATER SAMPLES TO A CERTIFIED LABORATORY FOR PURITY TESTING & WHEN TESTING INDICATES PURE WATER IN ACCORDANCE WITH GOVERNING STANDARDS, SUBMIT A COPY OF THE TEST RESULTS & FILL THE SYSTEMS
12. ABOVE GROUND DOMESTIC WATER PIPING:
1. COLD AND HOT: TYPE "K" HARD DRAWN SEAMLESS COPPER TO ASTM B88, C/W COPPER SOLDER TYPE
- FITTINGS TO ASME/ANSI B16.18 & SOLDERED JOINTS USING NSF/ANSI 61 CERTIFIED SILVER ALLOY LEAD-FREE SOLDER
2. RECIRCULATION: TYPE "K" HARD DRAWN SEAMLESS COPPER TO ASTM B88, C/W COPPER SOLDER TYPE FITTINGS TO ASME/ANSI B16.18 & SOLDERED JOINTS USING NSF/ANSI 61 CERTIFIED SILVER ALLOY LEAD-FREE SOLDER.
13. BELOW GROUND DOMESTIC WATER PIPING:
1. TYPE "K" SOFT COPPER TO ASTM B88, SUPPLIED IN A CONTINUOUS COIL WITH NO JOINTS IF POSSIBLE, & C/W, IF JOINTS ARE REQUIRED, COMPRESSION TYPE FLARED JOINT COUPLINGS.
2. ULC LISTED, RIGID, CLASS 150, DR18 PRESSURE RATED BELL & SPIGOT PATTERN PVC PIPE TO CAN/CSA-B137.3, & CSA CERTIFIED FITTINGS TO CAN/CSA B137.2, & AWWA C900, C/W GASKET JOINTS, & RESTRAINT HARDWARE AS REQUIRED.
3. CEMENT LINED DUCTILE IRON WITH GROOVED MECHANICAL JOINTS PIPE TO CAN/CSA-B151 AWWA A21.51 C/W GASKET JOINTS, & RESTRAINT HARDWARE AS REQUIRED
- DRAINAGE & VENT SYSTEMS**
1. THE INSTALLATION SHALL CONFORM TO THE BC PLUMBING CODE 2018.
2. PROVIDE DRAINAGE & VENT PIPING SYSTEMS
3. DRAINAGE SERVICE: MAKE ARRANGEMENTS WITH THE MUNICIPALITY FOR INSTALLATION OF DRAINAGE SERVICE FROM THE MUNICIPAL MAIN(S) TO THE PROPERTY LINE. PAY CHARGES LEVIED BY THE MUNICIPALITY FOR THE SERVICE CONNECTION WORK.
4. PIPING INSTALLATION: CONFORM TO THE FOLLOWING REQUIREMENTS:
1. SLOPE HORIZONTAL DRAINAGE PIPING ABOVE GROUND AS PER CODE.
2. INSTALL & SLOPE U/G DRAINAGE PIPING TO INVERTS OR SLOPES INDICATED TO FACILITATE STRAIGHT & TRUE GRADIENTS BETWEEN THE POINTS SHOWN, & VERIFY AVAILABLE SLOPES BEFORE INSTALLING THE PIPES.
3. SLOPE HORIZONTAL BRANCHES OF VENT PIPING DOWN TO THE FUTURE OR PIPE TO WHICH THEY CONNECT WITH A MINIMUM PITCH OF 25MM (1") IN 1.2 M (4').
4. TEND VENT STACKS UP THROUGH THE ROOF GENERALLY WHERE SHOWN BUT WITH EXACT LOCATIONS TO SUIT SITE CONDITIONS & IN ANY CASE, A MINIMUM OF 3 M (10') FROM FRESH AIR INTAKES. TERMINATE VENT STACKS A MINIMUM OF 330MM (13") ABOVE THE ROOF (INCLUDING ROOF PARAPETS) IN VENT STACK COVERS.
5. PROVIDE PROPER DIELECTRIC UNIONS AT CONNECTIONS BETWEEN COPPER PIPE AND FERROUS PIPE OR EQUIPMENT
6. BED BURIED LINES WITH A MINIMUM 150MM BEDDING SAND ABOVE AND BELOW PIPE.
7. INSTALL NEOPRENE PADS UNDER ALL CLAMPS AT VERTICAL WASTE PIPING WHICH RESTS ON STUDY FLOOR SYSTEMS
5. ABOVE GROUND SANITARY AND STORM DRAINAGE PIPING:
1. TYPE DWV COPPER TO ASTM B306, WITH FORGED COPPER SOLDER TYPE DRAINAGE FITTINGS 95/5 SOLDER JOINTS.
2. CAST IRON TO CAN/CSA B-70-M WITH MECHANICAL JOINTS WITH SS BANS AND CLAMPS
6. UNDERGROUND SANITARY AND STORM DRAINAGE PIPING:
1. CAST IRON TO CAN/CSA B-70-M WITH MECHANICAL JOINTS WITH SS BANS AND CLAMPS
2. FOR PIPING EMBEDDED IN CONCRETE, RIGID SOLVENT WELD IPS PVC DRAIN, WASTE AND VENT PIPE
7. DOMESTIC COLD WATER SHUT-OFF VALVES: CLASS 600, 4140 KPA (600 PSI) WOG RATED FULL PORT BALL TYPE VALVES, EACH EQUIPPED WITH AN IDENTIFYING TAG, AND C/W A FORGED BRASS BODY WITH SOLDER ENDS, FORGED BRASS CAP, & BLOW-OUT-PROOF STEM. SOLID FORGED BRASS PLATED BALL, "TIE-ROD" OR "PITTE" SEAT, & A REMOVABLE LEVER HANDLE. VALVES IN INSULATED PIPING ARE TO BE COMPLETE WITH STEM EXTENSIONS
8. TRAP SEAL PRIMER: FOR PRIMING 1 OR 2 FLOOR DRAINS, PRECISION PLUMBING PRODUCTS INC. MODEL P2-500 TRAP PRIMER VALVE C/W "O" RING SEALS, 12MM (½") DIA. THREADED INLET & OUTLET CONNECTIONS, & FOR PRIMING 2 TRAPS FROM THE SAME PRIMER, A DU-2 DUAL OUTLET DISTRIBUTION UNIT. FOR PRIMING FROM 3 TO 6 FLOOR DRAINS, PRECISION PLUMBING PRODUCTS INC. MODEL P1-500 TRAP PRIMER VALVE C/W A MODEL DU-3 OR DU-4, 3 OR 4 OUTLET DISTRIBUTION UNIT FOR PRIMING 3 OR 4 TRAPS, & A MODEL "YS-B" SUPPLY TUBE WITH COMBINATIONS OF MODEL DU-3 & DU-4 DISTRIBUTION UNITS FOR PRIMING FROM 5 TO 6 TRAPS
9. BACKFLOW PREVENTER: LEAD FREE REDUCED PRESSURE ZONE DUAL CHECK VALVE DESIGN BACKFLOW PREVENTER IN ACCORDANCE WITH CAN/CSA B54, BRONZE OR EPDM BALL, CAST IRON BODY, FITTED CONSTRUCTION DEPENDING ON SIZE, & C/W INLET STRAINER, INLET & OUTLET SHUT-OFF VALVES, AN INTERMEDIATE RELIEF VALVE, BALL VALVE TYPE TEST COCKS, & A PROPER AIR GAP FITTING
- PLUMBING FIXTURES & FITTINGS**
1. PROVIDE DRAINAGE & VENT PIPING SYSTEMS
2. PROVIDE PLUMBING FIXTURES & FITTINGS AS SHOWN & SCHEDULED ON THE DRAWINGS. WATER SUPPLY FITTINGS ARE TO BE LEAD-FREE IN ACCORDANCE WITH NSF/ANSI 61 REQUIREMENTS
3. UNLESS OTHERWISE SPECIFIED, VITREOUS CHINA, PORCELAIN ENAMELLED, & ACRYLIC FINISHED FIXTURES ARE TO BE WHITE, UNLESS OTHERWISE SPECIFIED. EXPOSED PIPING EXPOSED TO VIEW ARE TO BE CHROME PLATED & POLISHED. FITTINGS LOCATED IN AREAS OTHER THAN PRIVATE WASHROOMS ARE TO BE VANDAL-RESISTANT
4. PROVIDE AND INSTALL THERMOSTATIC MIXING VALVES AT ALL END FIXTURES FOR ANTI-SCALDING PROTECTION. SET HOT WATER TEMPERATURE LIMITS TO NOT EXCEED 49C (120F)
5. FOR HEALTHCARE APPLICATIONS, PROVIDE AND INSTALL CLEANOUTS BELOW AND ABOVE THE FLOOD LEVEL RIM OF SINKS.
6. FIXTURE EXPOSED TRAPS: EXPOSED TRAPS FOR FIXTURES NOT EQUIPPED WITH INTEGRAL TRAPS, SUCH AS LAVATORIES, ARE TO BE ADJUSTABLE CHROME PLATED CAST BRASS "P" TRAPS WITH CLEANOUTS, MINIMUM #17 GAUGE CHROME PLATED TUBULAR EXTENSIONS, & CHROME PLATED ESCUTCHEONS.
7. FIXTURE CONCEALED TRAPS: CONCEALED TRAPS FOR FIXTURES NOT EQUIPPED WITH INTEGRAL TRAPS, SUCH AS COUNTER SINKS, ARE TO ADJUSTABLE CAST BRASS WITH CLEANOUT PLUGS.
8. FIXTURE EXPOSED SUPPLIES: EXPOSED SUPPLIES FOR FIXTURES WHICH DO NOT HAVE SUPPLY TRIM/FITTINGS WITH INTEGRAL STOPS, I.E. LAVATORIES, ARE TO BE SOLID CHROME PLATED BRASS ANGLE VALES WITH SCREWDRIER STOPS FOR PUBLIC AREAS, WHEEL HANDLE STOPS FOR PRIVATE AREAS, FLEXIBLE STAINLESS STEEL, RISERS, & STAINLESS STEEL OR CHROME PLATED SILENT ESCUTCHEONS. DAHL BROTHERS CANADA LTD, NSF/ANSI 61 CERTIFIED CHROME PLATED "MINI-BALL" VALVE ASSEMBLIES WILL BE ACCEPTABLE
9. FIXTURE CONCEALED SUPPLIES: WATER PIPING AS SPECIFIED, C/W BALL TYPE SHUT-OFF VALVES AS SPECIFIED WITH THE WATER PIPING OR NSF/ANSI 61 CERTIFIED DAHL BROS. CANADA LTD. ¼ TURN "MINI BALL" VALVES.
10. BARRIER-FREE FIXTURES: COMPLY WITH MOUNTING HEIGHT & OTHER REQUIREMENTS OF THE GOVERNING CODE(S).
11. CAULKING: CAULK AROUND PLUMBING FIXTURES & FITTINGS WHERE THEY CONTACT WALLS, FLOORS, & ANY OTHER BUILDING SURFACE USING QUN APPLIED CAULKING EQUAL TO GENERAL ELECTRIC SERIES SC5-1200 SILICONE CONSTRUCTION SEALANT OR DOW CORNING 780 SILICONE RUBBER SEALANT WITH PRIMERS AS RECOMMENDED BY THE SEALANT MANUFACTURER. CAULKING COLOUR OTHER THAN WHITE, IF ANY, WILL BE SELECTED BY THE CONSULTANT.
12. TRAP SEAL PRIMER: FOR PRIMING 1 OR 2 FLOOR DRAINS, PRECISION PLUMBING PRODUCTS INC. MODEL P2-500 TRAP PRIMER VALVE C/W "O" RING SEALS, 12MM (½") DIA. THREADED INLET & OUTLET CONNECTIONS, & FOR PRIMING 2 TRAPS FROM THE SAME PRIMER, A DU-2 DUAL OUTLET DISTRIBUTION UNIT. FOR PRIMING FROM 3 TO 6 FLOOR DRAINS, PRECISION PLUMBING PRODUCTS INC. MODEL P1-500 TRAP PRIMER VALVE C/W A MODEL DU-3 OR DU-4, 3 OR 4 OUTLET DISTRIBUTION UNIT FOR PRIMING 3 OR 4 TRAPS, & A MODEL "YS-B" SUPPLY TUBE WITH COMBINATIONS OF MODEL DU-3 & DU-4 DISTRIBUTION UNITS FOR PRIMING FROM 5 TO 6 TRAPS
13. TESTING & ADJUSTING: WHEN INSTALLATION IS COMPLETE,CHECK & TEST THE OPERATION OF EACH FIXTURE & FITTING. ADJUST OR REPAIR AS REQUIRED.
- MEDICAL GASES**
1. INSTALLATION OF COMPLETE, OPERATIONAL, TESTED AND CERTIFIED MEDICAL GAS SYSTEMS, INSTALLED IN ACCORDANCE WITH CSA STANDARD Z7396.1-12, MEDICAL GAS PIPELINE SYSTEMS - PART 1 PIPELINES FOR MEDICAL GASES AND VACUUM" AND ASTM B813 FOR COPPER FLUX
2. MEDICAL GAS SYSTEMS WORK MUST BE PERFORMED BY A CONTRACTOR COMPLETELY FAMILIAR WITH THE REQUIREMENTS OF CAN/CSA-Z7396.1, AND WHO ARE QUALIFIED AND CERTIFIED (WITH JURISDICTIONAL AUTHORITY ISSUED CERTIFICATE) FOR SILVER BRAZING WITH NITROGEN BAKING USING FLUX IN ACCORDANCE WITH CLAUSE 4.5 OF CSA-B51, BOLER, PRESSURE VESSEL AND PRESSURE PIPING CODE. THE JURISDICTIONAL AUTHORITY IS THE AUTHORITY DESIGNATED BY THE PROVINCE OF THE WORK TO PERFORM DISINTEGRANT FUNCTIONS CITED IN CLAUSE 4.5 OF CSA-B51
3. ALL PIPING USED FOR MEDICAL GAS INSTALLATIONS SHALL BE TYPE L SEAMLESS HARD COPPER TUBING, CLEANED, DEGREASED, SEALED AT THE FACTORY AND STAMPED FOR MEDICAL USE. ALL FITTINGS AND CONNECTIONS SHALL BE MANUFACTURED OF WROUGHT COPPER AND NITROGEN PURGED SILVER BRAZING
4. SUPPORT PIPING BY MEANS OF SUPPORT MATERIALS SPECIFIED IN THE MECHANICAL WORK SECTION ENTITLED BASIC MECHANICAL MATERIALS AND METHODS, IN ACCORDANCE WITH REQUIREMENTS OF SECTION 11.3 OF CAN/CSA-Z7396.1 AND WITH SUPPORT SPACING IN ACCORDANCE WITH TABLE 9 IN CAN/CSA-Z7396.1.
5. DROPS OR RISERS SHALL BE SUPPORTED NOT MORE THAN 250 MM FROM OUTLETS
6. ALL MEDICAL VACUUM LINES SHALL BE 18 MM MINIMUM SIZE
7. ALL VALVES IN THE MEDICAL GAS PIPING SYSTEM SHALL BE MEDICAL QUALITY BALL TYPE VALVES WHICH OPERATE WITH NOT MORE THAN ONE-QUARTER TURN OF THE OPERATING HANDLE BETWEEN FULL OPEN AND FULL CLOSED
6. MEDICAL GAS OUTLETS
1. INSTALL WHERE INDICATED ON THE DRAWINGS
2. EACH STATION OUTLET FOR MEDICAL GAS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-OFF VALVE AND BE DESIGNED TO PREVENT ERRORS IN CROSS-FITTING
3. PIPING SHALL HAVE FIXED, COLOUR-CODED LABELS INDICATING THE TYPE OF GAS IN EACH LINE.
4. ALL MEDICAL GAS OUTLET PLATES SHALL BE GROUNDED
9. PRESSURE REGULATORS
1. PRESSURE REGULATORS SHALL BE PROVIDED FOR EACH MEDICAL GAS SYSTEMS TO INDICATE HIGH OR LOW PRESSURE
10. LINE MONITORING GAUGES
1. SUPPLY AND INSTALL LINE MONITORING PRESSURE GAUGES, WIRED TO ALARM PANELS
2. ALL PRESSURE GAUGES FOR MEDICAL GAS SYSTEMS SHALL SHOW PRESSURE IN KPA
11. AREA/ZONE VALVES INSTALLED 1150 MM ABOVE FLOOR TO BOTTOM OF VALVE BOX. AREA ALARM PANELS INSTALLED 1650 MM ABOVE FLOOR TO TOP OF BOX
12. MEDICAL GAS MASTER ALARM PANELS INSTALLED 1150 MM ABOVE FLOOR TO BOTTOM OF PANEL OR 150 MM ABOVE WORK BENCHES TO BOTTOM OF PANEL
13. PIPE SHALL BE FACTORY CLEANED AND STAMPED FOR USE IN MEDICAL GAS INSTALLATIONS
14. MAINTAIN ALL PIPE FREE OF CONTAMINATION, DURING ON OR OFF-SITE STORAGE AND DURING INSTALLATION BY CAPPING ALL EXPOSED PIPE ENDS
15. ALL MANUALLY OPERATED VALVES AND QUICK COUPLING DEVICES SHALL BE EQUIPPED WITH NON-INTERCHANGEABLE CONNECTIONS COMPLYING WITH THE CSA DIAMETER INDEX SAFETY SYSTEM (DISS). PIPING SHALL HAVE FIXED, COLOUR-CODED LABELS INDICATING THE TYPE OF GAS IN EACH LINE
16. THE SYSTEMS WILL BE CERTIFIED BY AN INDEPENDENT MEDICAL GAS-TESTING AGENCY RETAINED BY THE OWNER
17. PROVIDE AND INSTALL CONSTRUCTION VALVES WHEN CONNECTING TO EXISTING MEDICAL GAS MAINS
18. PROVIDE AND INSTALL ISOLATION VALVES UPSTREAM OF ZONE VALVE BOXES AND AT RISERS.
19. PIPE TESTING
1. AFTER INSTALLATION OF THE PIPING AND VALVES, BUT BEFORE INSTALLATION OF THE SERVICE OUTLETS, ALARM ACTUATING SWITCHES AND GAUGES, THE LINE SHALL BE BLOWN CLEAR BY MEANS OF NITROGEN
2. AFTER INSTALLATION OF THE ROUGH-IN PORTION OF SERVICE OUTLETS AND AREA LINE PRESSURE ALARMS, BUT BEFORE CLOSING OF THE WALLS, EACH SECTION OF PIPING OF PIPING SYSTEM SHALL BE SUBJECTED TO A TEST PRESSURE OF ONE AND ONE-HALF (1½) TIMES THE MAXIMUM WORKING PRESSURE, BUT NOT LESS THAN 1030 KPA WITH NITROGEN. THIS TEST PRESSURE SHALL BE MAINTAINED UNTIL EACH JOINT HAS BEEN EXAMINED FOR LEAKAGE BY MEANS OF SOAPY WATER OR OTHER EFFECTIVE MEANS OF LEAK DETECTION SAFE FOR USE WITH OXYGEN
3. ALL LEAKS SHALL BE REPAIRED AND THE SECTION RETESTED
4. AFTER COMPLETING THE TESTING OF EACH INDIVIDUAL PIPING SYSTEM, ALL OF THE MEDICAL GAS SYSTEMS SHALL BE SUBJECTED TO A 24-HOUR STANDING PRESSURE TEST AT ONE AND ONE-HALF (1½) TIMES THE MAXIMUM WORKING PRESSURE, BUT NOT LESS THAN 1030 KPA. THE TEST GAS SHALL BE NITROGEN. THE MAIN LINE SHUT-OFF VALVE SHALL BE CLOSED DURING THE TEST
5. AFTER COMPLETION OF THE ABOVE TEST PROCEDURES, THE FINISHING ASSEMBLIES OF STATION OUTLETS, ALARMS, AND ALL COMPONENTS (E.G., PRESSURE SWITCHES, GAUGES, RELIEF VALVES, ETC.) SHALL BE INSTALLED AND ALL MEDICAL GAS PIPING SYSTEMS SHALL BE SUBJECTED TO A 24-HOUR STANDING PRESSURE TEST AT 20% ABOVE THE NORMAL OPERATING LINE PRESSURE. THE MAIN LINE SHUT-OFF VALVE SHALL BE CLOSED DURING THIS TEST
6. LEAKS, IF ANY, SHALL BE LOCATED, REPAIRED, AND THE SYSTEM RETESTED.
7. PROVIDE PURGING VALVES FOR THIS PURPOSE
8. USE TEMPORARY CYLINDERS FOR THIS PURPOSE
9. PERFORM PRESSURE TEST AND CROSS CONNECTION TEST AS PER CODE REQUIREMENTS. REFER TO CSA STANDARD Z-7396.1, LATEST EDITION
20. FINAL TESTING
1. THE FINAL TESTING, CROSS CONNECTION TESTING AND CERTIFICATION OF THE MEDICAL GAS SYSTEMS SHALL BE DONE BY AN INDEPENDENT, CERTIFIED, TESTING AGENCY THAT MEETS THE REQUIREMENTS OF CSA STANDARD Z7396.1, AND THE TESTING AGENCY SHALL BE EMPLOYED DIRECTLY BY OWNER
2. MEDICAL-GAS SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 99, LATEST EDITION. THE ALARM SYSTEM SHALL BE TESTED PER NFPA 99 AND CSA Z7396.1
3. IN ADDITION TO CROSS-CONNECTION TESTING, THIS CERTIFICATION SHALL REQUIRE THE EQUIPMENT MANUFACTURER TO PROVIDE PERFORMANCE DATA FOR EACH INDIVIDUAL EQUIPMENT TO DESIGN SPECIFICATIONS AND MAKE ANY NECESSARY ADJUSTMENTS TO ENSURE A COMPLETE AND WORKING SYSTEM IS PROVIDED
4. CERTIFICATION AGENCY SHALL CERTIFY THAT THE SYSTEMS ARE COMPLETE IN ALL RESPECT, THAT ZONE VALVES ARE INSTALLED, ALARM SYSTEMS ARE FUNCTIONING AND THAT ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH CSA STANDARD Z7396.1, LATEST EDITION
5. THE MEDICAL GAS PIPING SYSTEM SHALL NOT BE USED UNTIL THE ABOVE DOCUMENTATION HAS BEEN CERTIFIED COMPLETE AND A COPY HAS BEEN ACCEPTED
21. CERTIFICATION
1. THE CERTIFICATION AGENCY WILL VERIFY:
1. THAT PIPING MATERIALS ARE CERTIFIED FOR MEDICAL GAS USE
2. THAT ALL BRAZING IS PERFORMED WITH NITROGEN PURGING
3. THAT ALL VALVES ARE INSTALLED AND OPERATIONAL
4. THAT PRESSURE TESTS HAVE BEEN COMPLETED AS REQUIRED
5. THAT ALL REQUIRED ALARM SYSTEMS ARE OPERATIONAL AND PROPERLY MONITORED
6. THAT ALL PIPING IS CORRECTLY IDENTIFIED
7. THAT THE INSTALLED SYSTEMS PASS CROSS-CONNECTION, CONCENTRATION AND PURITY TESTS
8. THAT ALL EQUIPMENT IS FUNCTIONING PROPERLY AND THAT ALL SYSTEMS ARE COMPLETE AND OPERABLE
- HYDRONIC SYSTEMS**
1. PROVIDE HYDRONIC SYSTEM PIPING & EQUIPMENT, SLOPE HORIZONTAL PIPING MAINS TO PROVIDE A MINIMUM CONTINUOUS UP-CORNING SLOPE OF 25MM (1") IN 1.2 M (4'). TO BRANCH SUPPLY & RETURN PIPING CONNECTIONS TO EQUIPMENT A MINIMUM OF 25 MM (1") IN 1.2 M (4'). LEAVE SUFFICIENT ROOM AT HIGH POINTS FOR INSTALLATION & MAINTENANCE OF AIR VENTS. CONFORM TO THE FOLLOWING REQUIREMENTS
1. REFER TO DRAWING CONTROL DIAGRAMS & DETAILS & INSTALL AUTOMATIC CONTROL VALVES, PIPING WELLS & SIMILAR PIPING AND/OR EQUIPMENT MOUNTED CONTROL COMPONENTS REQUIRED FOR AUTOMATIC CONTROL SYSTEMS SUPPLIED AS PART OF THE CONTROL SYSTEMS WORK
2. PROVIDE SCREWED UNIONS, REMOVABLE MECHANICAL JOINT COUPLINGS, OR WELD-ON OR SOLDER-ON FLANGES IN PIPING AT CONNECTIONS TO VALVES, STRAINERS & SIMILAR PIPING SYSTEM COMPONENTS, AT EQUIPMENT CONNECTIONS, IN RUNS OF PIPING EXCEEDING 9 M (30') AT 4.5 M (15') REGULAR INTERVALS TO PERMIT REMOVAL OF SECTIONS OF PIPING, & WHEREVER ELSE INDICATED ON THE DRAWINGS
3. USE LONG RADIUS ELBOWS
4. PROVIDE CIRCUIT BALANCING VALVES IN PIPING GENERALLY WHERE SHOWN BUT WITH EXACT LOCATIONS IN ACCORDANCE WITH INSTRUCTIONS OF PERSONNEL DOWN SYSTEM FLOW BALANCING WORK
5. INSTALL LOW POINT DRAINS AT LOW POINTS IN THE SYSTEM. INSTALL AUTOMATIC AIR VENTS AT ALL HIGH POINTS IN THE SYSTEM.
6. PIPE THE DISCHARGE FROM ALL LIQUID RELIEF VALVES, LIQUID SAFETY VALVES, HIGH CAPACITY AIR VENTS, STEAM DRIP PAN ELBOWS, EQUIPMENT BLOWDOWNS, WATER COLUMNS, OVERFLOWS AND PIPING SYSTEM DRAINS TO THE NEAREST BUILDING DRAIN. INSTALL A BRASS, BRONZE OR COPPER RECEIVING FUNNEL ON THE DRAIN WHERE SHOWN
7. INSTALL ALL PIPING SYSTEMS WITH PROVISIONS FOR EXPANSION OR CONTRACTION. INSTALL AT LEAST 3 ELBOWS IN ALL BRANCH CONNECTIONS.
8. FLUSH & CHEMICALLY CLEAN NEW PIPING AFTER PRESSURE TESTING IS COMPLETE IN ACCORDANCE WITH INSTRUCTIONS OF PERSONNEL DOING HYDRONIC SYSTEM WATER TREATMENT WORK. CONTRACTOR TO RETAIN THE SERVICES OF A CHEMICAL TREATMENT SPECIALIST.
9. PERFORM HYDROSTATIC TEST TO 150% OF WORKING PRESSURE, BUT NOT LESS THAN 125PSI FOR 1 WORKING DAY. NOTIFY CONSULTING 72HRS PRIOR TO PERFORMING TEST
10. WHEN WORK IS COMPLETE & EQUIPMENT IS OPERATING AS INTENDED, TEST, ADJUST & BALANCE WATER FLOWS IN ACCORDANCE WITH REQUIREMENTS SPECIFIED
11. HYDRONIC (WATER & GLYCOL SOLUTION) PIPING:
1. MILD BLACK CARBON STEEL, GRADE B, ERW, ASTM A53
1. UP TO 50MM (2") PIPE - CLASS 125 CAST IRON THREADED FITTINGS TO ANSI/ASME B16.4, & SCREWED JOINTS
2. LARGER THAN 65MM (2 ½ ") PIPE - WELDING FITTINGS AND FLANGES TO CSA W47.1.
2. TYPE "L" HARD DRAWN SEAMLESS COPPER TO ASTM B88, C/W WROUGHT COPPER FITTINGS TO ANSI B16.22, 95/5 ANTIMONY SOLDER JOINTS
3. GRADE B, ERW, ASTM A53, FACTORY OR SITE ROLL GROOVED, C/W VICTAULIC CO. CAST DUCTILE IRON GROOVED END FITTINGS, INCLUDING FLT FLOW ELBOWS & VICTAULIC STYLE 07 "ZERO-FLEX" RIGID COUPLINGS FOR PIPING IN THE MECHANICAL ROOMS & FOR PIPING RISERS, STYLE 77 STANDARD FLEXIBLE COUPLINGS FOR ALL OTHER PIPING
1. ACCEPTABLE FOR CHILLED WATER, CONDENSER WATER, GLYCOL HEAT RECOVERY AND HEAT PUMP WATER SYSTEMS. GASKET GRADE "EPDM" GASKET FOR TEMPERATURE RANGE -34°F [-30°F] TO 110°C [230°F]
12. PRODUCTS
1. PIPING STRAINER: Y SHAPED, BRONZE WITH SWEAT TYPE OR FLANGED CONNECTIONS IN COPPER PIPING, CAST IRON WITH SWEDED, FLANGED, OR GROOVED END CONNECTIONS IN STEEL PIPING, MINIMUM 1725KPA (250 PSI) RATED & C/W REMOVABLE PERFORATED TYPE 304 STAINLESS STEEL 20 MESH SCREEN, & FOR

ARCHITECT :



STRAINERS 40MM (1½") DIA. & LARGER, A BLOW DOWN PIPE CONNECTION TAPPING. PROVIDE WHERE SHOWN

2. PIPING DRAIN VALVE: MINIMUM 2070 KPA (300 PSI) WATER RATED, 20 MM (¾") DIA. STRAIGHT PATTERN FULL PORT BRONZE BALL VALVE C/W A LEVER HANDLE, THREADED OUTLET SUITABLE FOR COUPLING CONNECTION OF 20 MM (¾") DIA. HOSE, & A CAP & CHAIN. PROVIDE AT THE BOTTOM OF PIPING RISERS, AT OTHER PIPING LOW POINTS, & WHEREVER ELSE SHOWN OR SPECIFIED

3. PRESSURE GAUGE: EQUAL TO H. O. TRENCE 690 SERIES WITH PS/KPA SCALE RANGE SUCH THAT THE SYSTEM WORKING PRESSURE IS AT THE APPROXIMATE MID-POINT OF THE SCALE, C/W BRONZE BALL TYPE SHUT-OFF VALVE, FOR PIPING & EQUIPMENT WITH NORMAL EVERYDAY FLOW, A BRASS PRESSURE SNUBBER, & FOR GAUGES IN DOMESTIC WATER PIPING, ANS/NSF 61 LEAD FREE CERTIFICATION. PROVIDE IN VALVED TUBING ACROSS THE SUCTION, SUCTION STRAINER (IF APPLICABLE), AND DISCHARGE PIPING OF EACH CIRCULATING PUMP, IN SUPPLY AND RETURN PIPING CONNECTIONS TO MAIN MECHANICAL PLANT EQUIPMENT, IN EXPANSION TANK(S) OR PIPING IMMEDIATELY AT EXPANSION TANK(S), IN SEPARATE DOMESTIC HOT WATER STORAGE TANK(S), IN PIPING AT EACH SIDE OF A PRESSURE REDUCING VALVE, & WHEREVER ELSE SHOWN AND/OR SPECIFIED ON THE DRAWINGS

4. THERMOMETER: EQUAL TO H. O. TRENCE #0030 C/W °C & °F SCALE DIAL & A RANGE SUCH THAT THE SYSTEM OPERATING TEMPERATURE IS THE APPROXIMATE MID-POINT OF THE SCALE, A SUITABLE THERMOWELL, & FOR THERMOMETERS IN DOMESTIC WATER PIPING, ANS/NSF 61 LEAD FREE CERTIFICATION. PROVIDE IN SUPPLY & RETURN PIPING CONNECTIONS TO MAIN MECHANICAL PLANT EQUIPMENT, IN WATER PIPING CONNECTIONS TO HOT WATER HEATERS, IN THE DOWNSTREAM SIDE OF MIXING VALVES, & WHEREVER ELSE SHOWN AND/OR SPECIFIED. FOR INSTALLATION OF THERMOMETERS IN PIPING WELLS, PROVIDE A COAT OF METALLIC BASE HEAT TRANSFER PASTE OR GREASE IN THE PIPING WELL

5. FLEXIBLE PIPE CONNECTION: DOUBLE WALL, STAINLESS STEEL FLEXIBLE CONNECTORS FOR PIPING CONNECTIONS SELECTED BY THE MANUFACTURER TO SUIT THE APPLICATION. SHOP DRAWINGS OR PRODUCT DATA SHEETS MUST INDICATE CONSTRUCTION AND PERFORMANCE REQUIREMENTS THAT SUIT THE APPLICATION. PROVIDE FLEXIBLE CONNECTORS FOR PIPING CONNECTIONS TO VIBRATION ISOLATED EQUIPMENT

6. HYDRONIC PIPING SHUT-OFF VALVE: CLASS 600, 4140 KPA (600 PSI) WOG RATED FULL PORT BALL VALVES, EACH C/W A FORGE BRASS OR BRONZE BODY & CAP, BLOWOUT-PROOF STEM, SOLID FORGED BRASS CHROME PLATED BALL, "TEFLON" OR "PIPE" SEAT, THREADED ENDS, & REMOVABLE LEVER HANDLE

7. HYDRONIC PIPING CHECK VALVE: CLASS 125, 1380 KPA (200 PSI) WOG RATED HORIZONTAL SWING CHECK VALVES, EACH C/W A "Y" PATTERN BRONZE BODY, HINGED BRASS DISC, EASY ACCESS SCREW-IN CAP, & SCREWED ENDS, OR, VICTAULIC CO. OF CANADA LTD. SERIES 716 "VIC-CHECK" GROOVED END CARBON STEEL CHECK VALVES SUITABLE FOR MOUNTING HORIZONTALLY OR VERTICALLY

8. HYDRONIC PIPING BALANCING VALVE: SCREWED, GLOBE STYLE, NON-FERROUS CIRCUIT BALANCING VALVE DESIGNED TO FACILITATE PRECISE FLOW MEASUREMENT, PRECISION FLOW BALANCING, & POSITIVE SHUT-OFF, C/W CAPPED & VALVED DRAIN CONNECTION, & VALVED PORTS FOR CONNECTION TO A DIFFERENTIAL PRESSURE METER

9. AUTOMATIC AIR VENT: STANDARD FLOAT VENT: BRASS BODY AND NPS 1/8 CONNECTION AND RATED AT 690 KPA WORKING PRESSURE. INSTALL AT HIGH POINTS OF SYSTEMS. INSTANT GATE VALVE ON AUTOMATIC AIR VENT INLET. RUN COPPER VENT TUBING DISCHARGE TO NEAREST DRAIN

10. AIR SEPARATOR - IN-LINE: WORKING PRESSURE: 860KPa, SIZE NPS 4

11. PIPE STRAINERS: NPS 1/2 TO 2: BRONZE BODY TO ASTM B62, SCREWED CONNECTIONS, Y PATTERN. NPS 2 1/2 TO 12: CAST IRON BODY TO ASTM A278/A278M, CLASS 30 FLANGED CONNECTIONS. WORKING PRESSURE: 860KPa.

1. INSTALL AHEAD OF EACH PUMP AND AHEAD OF EACH AUTOMATIC CONTROL VALVE LARGER THAN NPS 1AND AS INDICATED

13. PUMPS

1. SUPPORT AT INLET AND OUTLET FLANGES OR UNIONS. ENSURE THAT PUMP BODY DOES NOT SUPPORT PIPING OR EQUIPMENT.
2. PIPE DRAIN TAPPING TO FLOOR DRAIN. INSTALL PRESSURE GAUGE TEST COOKS
3. PROVIDE LINE SIZED GATE VALVE AND STRAINER ON SUCTION AND LINE SIZED STOP SEATED CHECK VALVE AND MEMORY STOP BALANCING VALVE ON DISCHARGE. DECREASE FROM LINE SIZE, WITH LONG RADIUS REDUCING ELBOWS OR REDUCERS. SUPPORT PIPING ADJACENT TO PUMP SUCH THAT NO WEIGHT IS CARRIED ON PUMP CASINGS. PROVIDE SUPPORT UNDER ELBOWS ON PUMP SUCTION AND DISCHARGE. LINE SIZES 100 MM AND OVER
4. PROVIDE SEISMIC RESTRAINTS FOR PUMPS

AIR HANDLING UNIT

1. UNIT AND MAJOR COMPONENTS SHALL BE PRODUCT OF THE SAME MANUFACTURERS REGULARLY ENGAGED IN PRODUCTION OF SUCH UNITS WHO ISSUES COMPLETE CATALOGUE DATA ON SUCH PRODUCTS
2. UNIT SHALL BE FACTORY BUILT, AND CARRY ALL NECESSARY APPROVALS. COILS SHALL BE WATER TESTED AND AIR CERTIFIED. FAN SHALL BE RUN AND TESTED TO PERFORMANCE. TEST RESULTS SHALL BE SUBMITTED FOR VIBRATION SOUND AND AIRFLOW PERFORMANCE
3. MANUFACTURERS SHALL PROVIDE CONSTRUCTION METHODS TO ACHIEVE SOUND DATA AS SPECIFIED AND PROVIDE DATA OBTAINED BY EITHER:
 1. AMCA LAB SIMULATION
2. TEST DATA OF ACTUAL UNIT

4. ALL SOUND DATA SHALL BE MEASURED AND PROVIDED IN ACCORDANCE WITH ARI STANDARD 260P
5. MOTORS POWERED BY VARIABLE SPEED DRIVE CONTROLLERS SHALL BE IEWAC CLASS B WITH TYPE F INSULATION, SHALL HAVE A 1.15 SERVICE FACTOR AND SHALL BE SUITABLE TO BE DRIVEN BY PWM VARIABLE SPEED DRIVE CONTROLLERS. THE MOTOR MANUFACTURER SHALL SUBMIT IN WRITING CONFIRMATION THAT THE MOTORS ARE DESIGNED TO WITHSTAND VOLTAGE PEAKS OF 1400 VOLTS AND A VOLTAGE RATE OF RISE OF 2000 VOLTS / MICROSECOND AT A FREQUENCY OF 20 KHZ
6. FACTORY FABRICATED AND ASSEMBLED MODULAR COMPONENTS AS INDICATED. FIELD FABRICATION OF THE UNITS WILL NOT BE ACCEPTED. FIELD ASSEMBLY OF UNIT SECTIONS IS ACCEPTABLE IF THE UNIT CANNOT BE INSTALLED AS A SINGLE UNIT. INCLUDE FOR COST OF ANY FIELD ASSEMBLY
7. OVERALL DIMENSIONS AND CONFIGURATIONS ARE TO BE AS SHOWN ON THE PLANS. HOWEVER, SUCH A CONSTRAINT, AS THIS MAY IMPOSE, DOES NOT ABSOLVE THE MANUFACTURER FROM RESPONSIBILITY FOR THE ENGINEERING, OPERATIONAL INTEGRITY AND PERFORMANCE OF THE UNIT PROVIDED
8. UNIT SHALL CARRY ALL NECESSARY APPROVALS.
9. PIPE FROM CONDENSATE DRAINS TO ROOF DRAIN COMPLETE WITH TRAP. INSTALL UNIT SO THAT THE CURB / HOUSEKEEPING PAD HEIGHT IS SUFFICIENT TO ACCOMMODATE DEPTH OF "P" TRAP.
10. SEISMICALLY SECURE FLOOR/ROOF MOUNTED AHU'S TO CURBS OR HOUSE KEEPING PADS BY EITHER BOLTING OR WELDING TO EMBEDDED STEEL PLATES. ENSURE CURBS/HOUSEKEEPING PADS ARE SECURELY ATTACHED TO STRUCTURE.
11. SUBMIT A SITE INSPECTION AND START-UP REPORT FROM THE MANUFACTURER'S REPRESENTATIVE. SUBMIT WITH DELIVERY OF EACH UNIT A COPY OF THE FACTORY TEST AND INSPECTION REPORT

1. ELECTRICAL

1. WIRING SHALL BE FACTORY CSA APPROVED, COMPLETE FACTORY POWER WIRING IN EMT CONDUIT FROM MOTORS AND LIGHTS TO POINT POWER CONNECTIONS. PROVIDE POWER CONNECTIONS FROM EACH FAN MOTOR TO JUNCTION BOXES ON THE OUTSIDE OF THE UNIT CASING

2. PROVIDE ONE 120VOLT/1PHASE CONNECTION TO A JUNCTION BOX FOR MARINE LIGHTS

12. CONSTRUCTION

1. CASINGS SHALL BE SUPPORTED ON WELDED STRUCTURAL CHANNEL SUPPORTS DESIGNED FOR SUPPORT OF ENTIRE UNIT WITHOUT DEFLECTION. STEEL BASE SHALL BE SUITABLE FOR SEISMICALLY BOLTING UNIT TO ROOF CURBS OR HOUSE KEEPING PADS OR WELDING UNIT TO EMBEDDED STEEL PLATES IN CONCRETE ROOF CURBS OR HOUSE KEEPING PADS/CURBS. PROVIDE INTEGRAL LIFTING LUGS FOR HOISTING
2. UNIT SHALL BE MOUNTED ON METAL SEISMIC ROOF CURB(S) PROVIDED WITH THE UNIT(S). ROOF CURBS SHALL BE SEISMICALLY SECURED TO THE ROOF. WHEN FLASHED TO THE MOUNTING CURB IT SHALL PROVIDE A WEATHERPROOF WHOLE
3. UNIT(S) SHALL MATE TO THE CONCRETE MOUNTING CURB. WHEN FLASHED TO THE MOUNTING CURB IT SHALL PROVIDE A WEATHERPROOF WHOLE
4. PLENUM FLOORS SHALL BE RIGID OF WELDED CONSTRUCTION USING, AS A MINIMUM, STRUCTURALLY REINFORCED 2.52 MM [12 GA.] M.S. CHECKER PLATES; BE FREE FROM DISHING AND BE FORMED AS A DRAIN PAN WITH A STANDING UPTURNED ANGLE. ALL SEAMS AND CORNERS SHALL BE CONTINUOUSLY WELDED. FLOOR SHALL BE COMPLETELY FLOODED AFTER ASSEMBLY AND WRITTEN CERTIFICATION SUBMITTED BY THE MANUFACTURER INDICATING THAT THERE ARE NO LEAKS
5. FLOOR SHALL BE FINISHED WITH TWO-COMPONENT EPOXY POLYAMINE NON-SKID PAINT
6. ALL PIPE/DUCT PENETRATIONS THROUGH THE FLOOR SHALL HAVE MINIMUM 40MM [1½"] SLEEVE UP-STAND, WELDED
7. REMOVABLE OPEN GRATINGS SHALL BE PROVIDED OVER ALL FLOOR OPENINGS
8. THE UNDERSIDE OF THE BASE SHALL BE INSULATED WITH 50MM [2"] THICK 64 KG/CU.M [4 LB/FT³] DENSITY GLASS FIBRE ACOUSTIC INSULATION
9. COIL DRAIN PANS OF 1.47 MM [16 GA.] MINIMUM STAINLESS STEEL SHALL BE RECESSED INTO THE FLOOR AND SHALL BE AN INTEGRAL PART OF THE FLOOR PANELING; A MINIMUM OF 150 MM [6"] AND 50 MM [2"] DEEP RESPECTIVELY WITH WELDED CORNERS. DRAIN PANS UNDER EACH "WET" COIL MUST EXTEND UPSTREAM AND DOWNSTREAM AS REQUIRED TO ENSURE NO CARRYOVER. DRAIN PANS SHALL ALSO EXTEND UNDER COIL COIL HEADERS AND RETURN BENDS. THE DRAIN PAN SHALL BE SLOPED TO OUTLET AND OUTLET PIPE BOTTOM INVERT SHALL BE BELOW BOTTOM OF PAN. THE DRAIN PAN SHALL BE DUCT PROVIDED WITH AN INTERIOR 32 MM [1-1/4"] COPPER PIPE DRAIN PIPED TO THE OUTSIDE OF THE UNIT. PROVIDE DRAIN PANS UNDER ALL COIL BANKS TO ALLOW FOR CLEANING. CAP ALL DRAIN CONNECTIONS AT EXTERIOR OF UNIT FOR DRY COILS
10. UNIT CASING SHALL BE OF MINIMUM 1.47 MM [16 GA.] GALVANIZED SHEET METAL. FINISH COAT SHALL BE AIR-DRY ENAMEL TO ALL EXPOSED SURFACES.
11. OUTDOOR UNITS ARE TO BE INSULATED W/ 100 MM (4") THICK INSULATION, AND ARE TO BE COMPLETELY WEATHERPROOF WITH ROOF AREAS SLOPED DOWN IN TWO DIRECTIONS WHERE GREATER THAN 3.6 M (12') WIDE, AND SLOPED DOWN IN ONE DIRECTION IF LESS THAN 3.6 M (12') WIDE, WITH DRIP SHIELDS LOCATED OVER ALL ACCESS DOORS
12. INSULATE ALL INTERIOR WALLS WITH 50 MM [2"] THICK, 48 KG/CU.M [3 LBS/CU. FT.] MIN. DENSITY GLASS FIBRE NEOPRENE COATED ACOUSTIC INSULATION. ALL EDGES OF INSULATION SHALL BE COVERED WITH METAL Z BARS. ALL INSULATION PINS SHALL BE SECURE AND ENDS TRIMMED AND COVERED WITH

NEOPRENE CAP. PROVIDE 0.76 MM [22 GA.] GALVANIZED SHEET METAL COVERING ON ACOUSTICALLY LINED PLENUM WALLS FOR A DISTANCE OF 1.2 M [4 FT.] DOWNSTREAM FROM COOLING AND HEAT EXTRACT COILS

13. UNITS SHALL BE TESTED TO 3% LEAKAGE AT 1.5 TIMES OPERATING PRESSURE

14. FANS

1. FAN SECTIONS SHALL BE EQUIPPED WITH A STRUCTURAL STEEL CHANNELS LOCATED UNDER THE ISOLATOR LOADS TO ADD RIGIDITY, ELIMINATE FAN DEFLECTION, AND DISTRIBUTE LOADS TO THE PERIMETER STRUCTURAL CHANNEL
2. ALL FANS AND FAN ASSEMBLIES SHALL BE DYNAMICALLY BALANCED DURING FACTORY TEST RUN
3. FAN SHIFTS SHALL BE SELECTED FOR STABLE OPERATION AT LEAST 25% BELOW THE FIRST CRITICAL RPM
4. BEARINGS: HEAVY-DUTY PILLOW-BLOCK GREASE LUBRICATED BALL OR ROLLER SELF-ALIGNING TYPE. BEARINGS SHALL HAVE AN AVERAGE LIFE OF 200,000 HOURS AT DESIGN OPERATING CONDITIONS IN ACCORDANCE WITH AMS B3.15. INBOARD BEARING LUBE LINE SHALL BE EXTENDED TO THE OUTBOARD BEARING
5. BEARING SUPPORT SHALL BE FROM A RIGID STRUCTURAL STEEL BASE FRAME. THIS FRAME SHALL BE INTERNALLY ISOLATED AND SEISMICALLY RESTRAINED FROM THE FAN CABINET STRUCTURAL FRAME
6. DRIVES SHALL BE ADJUSTABLE ON FANS WITH MOTORS 5 H.P. OR SMALLER. ON FANS WITH MOTORS ABOVE 5 H.P., FIXED DRIVE SHALL BE PROVIDED. INCLUDE FOR ONE SHEAVE CHANGE PER FAN, DURING THE AIR BALANCE PROCEDURE. DRIVES SHALL BE SELECTED FOR 150% OF MOTOR NAMEPLATE HORSEPOWER AND INCLUDING 2 BELTS MINIMUM
7. PLENUM FAN ASSEMBLIES FULLY ENCLOSED WITH EXPANDED MESH SCREEN, APPROVED TO WCB STANDARDS

15. CONTROL DAMPERS TO BE T.A. MORRISON - (1000) AIRFLOW OR RUSKIN CD-50

16. COILS:

1. DRAINABLE COILS DESIGNED AND CONSTRUCTED TO MEET REQUIREMENTS OF THE ASME CODE CATEGORY "1" AS A REGISTERED FITTING, AND COMPLETE WITH A TSBC CRN. COIL DATA, PERFORMANCE AND SPECIFIC FEATURES NOT SPECIFIED BELOW ARE TO BE IN ACCORDANCE WITH THE DRAWING DETAIL. EACH COIL IS TO BE COMPLETE WITH A SLIDE IN-SLIDE OUT GALVANIZED STEEL MOUNTING FRAMEWORK, 716 MM (5/8") O.D. SEAMLESS COPPER TUBES MECHANICALLY EXPANDED INTO AND BONDED TO ALUMINUM PLATE TYPE OR CONFIGURED FINIS, WELDED SCHEDULE 40 ASTM A106 SEAMLESS STEEL PIPE HEADERS WITH SAME END SUPPLY AND RETURN CONNECTIONS, AND 9.5 MM (¾") TAPINGS FOR AN AIR VENT AND A DRAIN VALVE. A FLANGED #14 GAUGE TYPE 304 STAINLESS STEEL CASING DESIGNED TO DRAIN OFF STANDING WATER, AND STAINLESS STEEL INTERMEDIATE TUBE SUPPORT SHEETS AS REQUIRED

17. FILTERS:

1. FILTER MEDIA SHALL BE ULC LISTED, CLASS I OR CLASS II
2. FILTERS: SUITABLE FOR AIR AT 100% RH AND AIR TEMPERATURES BETWEEN 3⁰C [37⁰F] AND 50⁰C [122⁰F]
3. REPRESENTATIVE FILTERS SHALL HAVE BEEN TESTED BY AN INDEPENDENT TEST LABORATORY AND TEST RESULTS SHALL BE MADE AVAILABLE ON REQUEST
4. PROVIDE TWO (2) SETS OF FILTER MEDIA (FOR EACH FILTER) -ONE FOR INSTALLATION AND ONE FOR HANDOVER TO THE OWNER AS A SPARE
5. PROVIDE FILTER GAUGES ACROSS EACH FILTER BANK. UNLESS OTHERWISE SPECIFIED, DWYER INSTRUMENTS INC. SERIES 605 "MAGNEHELIC", 24 VOLT DC DIFFERENTIAL PRESSURE GAUGES, ONE FOR EACH PRE-FILTER BANK, ONE FOR EACH FINAL FILTER BANK, EACH WITH ± 3% ACCURACY WITH A RANGUITY TO SUIT THE APPLICATION. AN INDICATING TRANSMITTER WITH 4-20 MA OUTPUT SUITABLE FOR CONNECTION TO THE BUILDING AUTOMATION SYSTEM, AND A MOUNTING BRACKET

13. SUBMITTALS:

1. PRODUCT DATA SHALL INCLUDE DIMENSIONS, WEIGHTS, CAPACITIES, CERTIFICATIONS, CASING CONSTRUCTION DETAILS, GAUGES, AND FINISHES. SUBMIT FAN CURVE DETAILS, SHOWING OPERATING POINTS AT CLEAN FILTER, DIRTY FILTER AND MID-POINT LOADED FILTER WITH THE PARAMETERS SPECIFIED. SELECT FANS AT MAXIMUM EFFICIENCY FOR SPECIFIED DUTY
2. SUBMIT SOUND POWER LEVELS FOR AIR HANDLING UNIT INLET AND OUTLET AND CASING RADIATION AT RATED CAPACITY IN ACCORDANCE WITH AMCA
3. SUBMIT MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS

DUCTWORK

1. PROVIDE ALL REQUIRED GALVANIZED STEEL DUCTWORK, RECTANGULAR AND/OR ROUND AND/OR FLAT OVAL AS SHOWN. NOTE THAT WHERE RECTANGULAR DUCTWORK IS SHOWN, ROUND OR FLAT OVAL DUCTWORK OF EQUIVALENT GROSS-SECTIONAL AREA IS ACCEPTABLE
2. DUCT ROUTING AND DIMENSIONS: CONFIRM THE ROUTING OF DUCTWORK AT THE SITE & SITE MEASURE DUCTWORK PRIOR TO FABRICATION. DUCT DIMENSIONS MAY BE REVISED TO SUIT SITE ROUTING & BUILDING ELEMENT REQUIREMENTS, IF DIMENSION REVISIONS ARE REVIEWED WITH & APPROVED BY THE CONSULTANT. DUCT ROUTING AND/OR DIMENSION REVISIONS TO SUIT CONDITIONS AT THE SITE ARE NOT GROUNDS FOR A CLAIM FOR AN EXTRA COST
3. AUTOMATIC CONTROL COMPONENTS: INSTALL (BUT DO NOT CONNECT) DUCT SYSTEM MOUNTED AUTOMATIC CONTROL COMPONENTS SUPPLIED AS PART OF THE AUTOMATIC CONTROL WORK
4. HEAT TRANSFER EQUIPMENT CONNECTIONS: WHERE INDICATED, PROVIDE DUCT CONNECTIONS TO FAN POWERED HEAT TRANSFER EQUIPMENT WITH INTEGRAL COILS
5. ROUND & FLAT OVAL DUCT SUPPORT INSIDE BUILDING: SUPPORT ROUND & FLAT OVAL DUCTS INSIDE THE BUILDING IN ACCORDANCE WITH ANS/SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE, BUT, UNLESS OTHERWISE SPECIFIED, FOR BOTH UNINSULATED AND INSULATED DUCTS EXPOSED IN FINISHED AREAS, USE BANDS & SECURE AT THE TOP OF THE DUCT TO A HANGER ROD, ALL SIMILAR TO DUCTMATE CANADA LTD. TYPE "BA". IF THE DUCT IS INSULATED, SIZE THE STRAP TO SUIT THE DIAMETER OF THE INSULATED DUCT
6. SUPPORT OF ROOF MOUNTED DUCTS: SUPPORT ROOF MOUNTED DUCT ON FACTORY FABRICATED ALUMINUM SUPPORT ASSEMBLIES TO SUIT ROOF CONSTRUCTION, SIZED & ARRANGED TO SUIT THE DUCT, & PROPERLY SPACED.
7. WATERTIGHT DUCTWORK: WHERE WATERTIGHT HORIZONTAL DUCTWORK IS REQUIRED, CONSTRUCT WITHOUT BOTTOM LONGITUDINAL SEAMS, SOLDER OR WELD THE JOINTS OF BOTTOM AND SIDE SHEETS. SEAL ALL OTHER JOINTS WITH DUCT SEALER. SLOPE HORIZONTAL DUCT TO HOODS, RISERS, OR DRAIN POINTS. PROVIDE DUCT DRAIN FITTINGS AT DRAIN POINTS. PROVIDE WATERTIGHT DUCTWORK FOR, AS APPLICABLE, ALL GALVANIZED STEEL DUCTWORK OUTSIDE THE BUILDING OR OTHERWISE EXPOSED TO THE ELEMENTS, FRESH AIR INTAKES, & WHEREVER ELSE SHOWN
8. FLEXIBLE DUCTWORK: PROVIDE MAXIMUM 3.M (10') LONG LENGTHS OF FLEXIBLE DUCTWORK FOR CONNECTIONS BETWEEN GALVANIZED STEEL DUCTS & NECKS OF CEILING GRILLES & DIFFUSERS; DO NOT INSTALL FLEXIBLE DUCTWORK THROUGH WALLS, EVEN IF SHOWN ON THE DRAWINGS. AT RECTANGULAR GALVANIZED STEEL DUCT, ACCURATELY CUT HOLES & PROVIDE FLANGED OR "SPIN-IN" ROUND FLEXIBLE DUCT CONNECTION COLLARS. SEAL JOINTS WITH DUCT SEALER. INSTALL FLEXIBLE DUCTS AS STRAIGHT AS POSSIBLE & SECURE AT EACH END WITH NYLON OR STAINLESS STEEL GEAR TYPE CLAMPS, & SEAL JOINTS. PROVIDE LONG RADIUS DUCT BENDS WHERE THEY ARE REQUIRED
9. SHEET METAL DUCTWORK: UNLESS OTHERWISE SPECIFIED, CONSTRUCT & INSTALL DUCTWORK IN ACCORDANCE WITH ANS/SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE TO SUIT THE DUCT PRESSURE CLASS DESIGNATION OF MINIMUM 500 PA (2" W.C.) POSITIVE OR NEGATIVE AS APPLICABLE, A MINIMUM VELOCITY OF 10 M/S (2000 FPM), & SO THAT THE DUCTWORK DOES NOT "DRUM". ALL FLAT SURFACES OF RECTANGULAR DUCTWORK ARE TO BE CROSS-BROKEN. DUCT SYSTEM SEALING IS TO MEET ANS/SMACNA SEAL CLASS A REQUIREMENTS
10. DUCT FIRE DAMPER: CURTAIN BLADE TYPE, DYNAMIC, GALVANIZED STEEL FUSIBLE LINK DAMPER, ULC CLASSIFIED TO CAN/ULC-S112 & AS PER NFPA 90A REQUIREMENTS. 1½ OR 3 HOUR RATED AS REQUIRED, & UNLESS OTHERWISE INDICATED, C/W A 74° C (165° F) FUSIBLE LINK. PROVIDE WHERE SHOWN. INSTALL IN ACCORDANCE WITH CODE REQUIREMENTS, INCLUDING EXPANSION CLEARANCE BETWEEN DAMPER SLEEVE
11. DUCT ACCESS DOOR: CONSTRUCT & INSTALL AS PER ANS/SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE, & SIZE TO SUIT THE APPLICATION. PROVIDE FOR DUCT COMPONENTS REQUIRING MAINTENANCE AND/OR REPAIR, WHERE DUCTS/PLENUMS/CASINGS CONNECT TO FANS, & WHEREVER ELSE SHOWN. IDENTIFY WITH "FD" MARKER TYPE RED LETTERING
12. BACKDRAFT DAMPER: EQUAL TO T. A. MORISON & CO. INC. "TAMCO" COUNTERBALANCED BACKDRAFT DAMPERS, SERIES 7000 WT FOR VERTICAL MOUNTING, SERIES 7000 CW FOR HORIZONTAL MOUNTING. PROVIDE WHERE SHOWN
13. BALANCING DAMPER: PROVIDE BALANCING DAMPERS AT ALL TAKE-OFFS AND BRANCH DUCTWORK AND WHERE SHOWN ON THE DRAWINGS.
14. ACOUSTIC LINING: PROVIDE ACOUSTIC LINING IN DUCTWORK IN LOCATIONS AS FOLLOWS WHEREVER SHOWN AND/OR SPECIFIED ON THE DRAWINGS, IN DUCTWORK DOWNSTREAM OF AIR TERMINAL BOXES FOR A DISTANCE OF 2.4M (8') MEASURED ALONG THE DUCT & OUTWARD FROM THE BOX IN ALL DIRECTIONS, & FOR ALL TRANSFER AIR DUCTS, ANSWER AIR DUCTS, INSTALL LINING IN ACCORDANCE WITH REQUIREMENTS OF ANS/SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE, HOWEVER, REGARDLESS OF VELOCITY, AT LEADING & TRAILING EDGES OF DUCT LINER SECTIONS, PROVIDE GALVANIZED STEEL NOSING CHANNEL AS PER THE DETAIL ENTITLED FLEXIBLE DUCT LINER INSTALLATION FOUND IN THE ANS/SMACNA MANUAL REFERRED TO ABOVE. FOR ALL HEALTHCARE APPLICATIONS, ACOUSTIC LINER SHALL BE FIBRE FREE
15. TESTING, ADJUSTING & BALANCING: INCLUDE FOR A SITE WALK-THROUGH WITH TESTING & BALANCING PERSONNEL FOLLOWING THE ROUTE OF DUCT SYSTEMS TO BE TESTED, ADJUSTED & BALANCED FOR THE PURPOSE OF CONFIRMING THE PROPER POSITION & ATTITUDE OF DAMPERS, THE LOCATION OF PILOT TUBE OPENINGS, & ANY OTHER WORK AFFECTING THE TESTING & BALANCING PROCEDURES. PERFORM CORRECTIVE WORK REQUIRED AS A RESULT OF THIS WALK-THROUGH.

AUTOMATIC CONTROL SYSTEMS

1. THE CONTROLS SCOPE SHALL BE COMPLETED BY THE BASE BUILDING CONTROLS CONTRACTOR, HOULE CONTROLS.
2. PROVIDE COMPLETE SYSTEMS OF CONTROL & INSTRUMENTATION TO CONTROL & SUPERVISE BUILDING EQUIPMENT & SYSTEMS. THE CONTROL SYSTEMS ARE TO GENERALLY BE AS INDICATED ON DRAWING CONTROL DIAGRAMS & ARE TO HAVE ALL THE ELEMENTS THEREIN INDICATED OR IMPLIED. THE CONTROL DIAGRAMS SHOW ONLY THE PRINCIPAL COMPONENTS CONTROLLING THE EQUIPMENT & SYSTEMS. SUPPLEMENT EACH CONTROL SYSTEM WITH RELAYS, TRANSFORMERS, SENSORS, ETC., REQUIRED TO ENABLE EACH SYSTEM TO PERFORM AS SPECIFIER OPERATION & SUPERVISION
3. SHOP DRAWINGS/PRODUCT DATA: SHOP DRAWINGS/PRODUCT DATA SHEETS ARE TO INCLUDE ALL CONTROL SYSTEM COMPONENTS, IDENTIFIED SCHEMATIC CONTROL DIAGRAMS WITH COMPONENT IDENTIFICATION, CATALOGUE NUMBERS, & SEQUENCE OF OPERATION FOR ALL SYSTEMS, & CERTIFIED WIRING DIAGRAMS FOR ALL SYSTEMS.
4. INSTALLATION REQUIREMENTS: THE CONTROL SYSTEMS ARE TO BE INSTALLED BY THE CONTROL COMPONENT MANUFACTURER OR BY LICENSED PERSONNEL AUTHORIZED BY THE CONTROL COMPONENT MANUFACTURER. THE CONTROL SYSTEM INSTALLATION COMPANY IS TO HAVE LOCAL PARTS & SERVICE AVAILABILITY ON A 24/7 BASIS. CONTROL WIRING WORK IS TO BE PERFORMED BY LICENSED JOURNEYMAN ELECTRICIANS, OR UNDER DIRECT DAILY SUPERVISION OF JOURNEYMAN ELECTRICIANS.
5. AUTOMATIC CONTROL VALVES: SUPPLY ALL REQUIRED AUTOMATIC CONTROL VALVES. HAND THE VALVES TO THE APPROPRIATE PIPING TRADES AT THE SITE IN THE LOCATIONS THEY ARE REQUIRED FOR INSTALLATION AS PART OF THE PIPING WORK. ENSURE THAT EACH VALVE IS PROPERLY LOCATED & INSTALLED. ALL VALVES ARE TO HAVE POSITION INDICATORS. HEATING VALVES ARE TO BE NORMALLY OPEN UNLESS OTHERWISE SPECIFIED. COOLING VALVES ARE TO BE NORMALLY CLOSED UNLESS OTHERWISE SPECIFIED. EACH CONTROL VALVE MUST BE SUITABLE IN ALL RESPECTS FOR THE APPLICATION, INCLUDING SYSTEM PRESSURE, & MUST HAVE DESIGN OUTPUT & FLOW RATES WITH MAXIMUM PRESSURE DROPS AS FOLLOWS:
 1. CHILLED WATER VALVES FOR COILS: 28 KPA (4 PSI)
 2. HEATING WATER/GLYCOL SOLUTION VALVES FOR COILS: 17.5 KPA (2.5 PSI)
6. AUTOMATIC CONTROL DAMPERS: DAMPERS FOR MODULATING & MIXING APPLICATIONS ARE TO BE PARALLEL BLADE TYPE. DAMPERS FOR OPEN-SHUT SERVICE ARE TO BE OPPOSED BLADE TYPE. MAXIMUM BLADE LENGTH IS TO BE 1 M (4'). DAMPERS GREATER THAN 2 SECTIONS WIDE ARE TO BE C/W A JACKSHAFT. DAMPER MOTORS ARE TO BE SIZED TO CONTROL THE DAMPER AGAINST MAXIMUM PRESSURE OR DYNAMIC CLOSING PRESSURE, WHICHEVER IS GREATER, TO SUIT THE SIZES OF DAMPERS INVOLVED, & TO PROVIDE SUFFICIENT FORCE TO MAINTAIN THE DAMPER RATED LEAKAGE CHARACTERISTICS. OPERATORS FOR DAMPERS TO BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM OR TO FREEZE PROTECTION DEVICES ARE TO BE EQUIPPED WITH ADDITIONAL RELAYS TO PERMIT THE DAMPERS TO RESPOND AND GO TO THE REQUIRED POSITION IN LESS THAN 15 SECONDS UPON RECEIPT OF A SIGNAL. OPERATOR ENCLOSURES ARE TO BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE LOCATED.
7. MOTORIZED DAMPER: EQUAL TO T. A. MORRISON & CO. INC. "TAMCO" SERIES 1000 (SERIES 9000 FOR FRESH & EXHAUST AIR APPLICATIONS) ALUMINUM DAMPERS, PARALLEL BLADE TYPE FOR MODULATING & MIXING APPLICATIONS, OPPOSED BLADE TYPE FOR OPEN-SHUT SERVICE. DAMPER MOTORS ARE TO BE EQUAL TO BELIMO EF SERIES, SPRING RETURN, FAIL-SAFE, 24 OR 120 VAC AS REQUIRED, MODULATING OR 2-POSITION AS REQUIRED, OVERLOAD PROTECTED & C/W ENCLOSURE TO SUIT MOUNTING LOCATION. PROVIDE WHERE SHOWN. CONNECT WITH CONTROL WIRING IN CONDUIT AS SHOWN/SPECIFIED
8. THERMOSTAT: WALL MOUNTING, 24V UNLESS OTHERWISE SPECIFIED, 7-DAY PROGRAMMABLE HEAT-COOL DIGITAL THERMOSTAT FOR F1 OR C1 INDICATION, C/W BACKUP DISPLAY, THERMOMETER, REAL TIME CLOCK, & MOMENTARY OVERRIDE FOR AFTER-HOURS OCCUPATION
9. CONTROL SYSTEM COMPONENTS: PROVIDE ALL REQUIRED CONTROL SYSTEM COMPONENTS & RELATED HARDWARE. REFER TO DRAWING CONTROL DIAGRAMS, POINTS LISTS, & SEQUENCES. WHERE COMPONENTS ARE PIPE, DUCT, OR EQUIPMENT MOUNTED SUPPLY THE COMPONENTS AT THE PROPER TIME, COORDINATE INSTALLATION WITH THE APPROPRIATE TRADE, & ENSURE THAT THE COMPONENTS ARE PROPERLY LOCATED & MOUNTED.
10. CONTROL WIRING: DO ALL REQUIRED CONTROL WIRING FROM 15A-1P CIRCUITS TERMINATED AS PART OF THE ELECTRICAL WORK IN JUNCTION BOXES IN EQUIPMENT ROOMS/AREAS. COORDINATE EXACT JUNCTION BOX LOCATIONS AT THE SITE WITH THE ELECTRICAL TRADE. EXCEPT AS SPECIFIED BELOW, INSTALL WIRING IN CONDUIT. UNLESS OTHERWISE SPECIFIED THE FINAL 600 MM (2') CONNECTIONS TO SENSORS & TRANSMITTERS, & WHEREVER CONDUIT EXTENDS ACROSS FLEXIBLE DUCT CONNECTIONS IS TO BE LIQUID-TIGHT FLEXIBLE CONDUIT. CONTROL WIRING IN CEILING SPACES & WALL CAVITIES MAY BE PLENUM RATED CABLE INSTALLED WITHOUT CONDUIT BUT NEATLY HARNESSSED, SECURED, & IDENTIFIED
11. TESTING, ADJUSTING & COMMISSIONING: WHEN CONTROL WORK IS COMPLETE, CHECK THE INSTALLATION OF COMPONENTS & ALL WIRING CONNECTIONS, MAKE ANY REQUIRED ADJUSTMENTS, COORDINATE ADJUSTMENTS WITH PERSONNEL DOING HVAC TESTING, ADJUSTING & BALANCING WORK. & COMMISSION THE CONTROL SYSTEMS
12. DEMONSTRATION & TRAINING: INCLUDE FOR A FULL DAY OF ON-SITE OPERATION DEMONSTRATION & TRAINING SESSIONS FOR 2 GROUPS OF 6 PEOPLE.

ARCHITECT :



WWW.DCYTARCHITECTURE.CA

MECHANICAL CONSULTANT :



312 Main Street
Vancouver, BC, V6A 2T2
www.impacteng.ca
(604) 200-9087

6	ISSUED FOR CONSTRUCTION	2021.10.15	JL
5	ISSUED FOR TENDER	2021.06.04	JL
4	ISSUED FOR 80% CD	2021.05.20	JL
3	ISSUED FOR BP	2021.05.06	JL
2	ISSUED FOR BP REVIEW	2021.04.28	JL
1	ISSUED FOR DD	2021.04.09	JL
NO.	REVISION	DATE	BY

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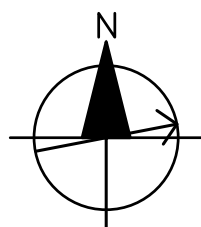
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BC V2M 1S2

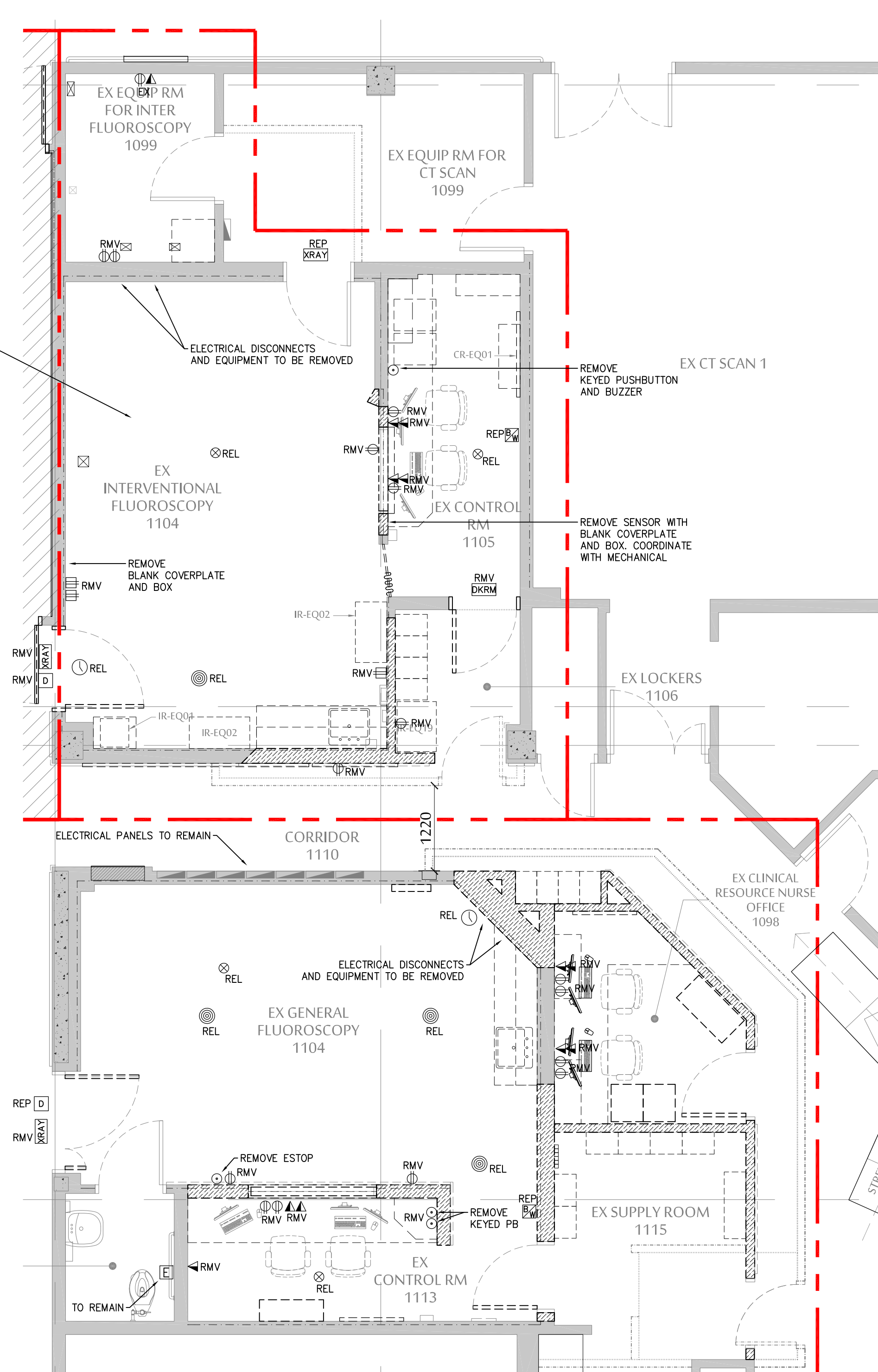
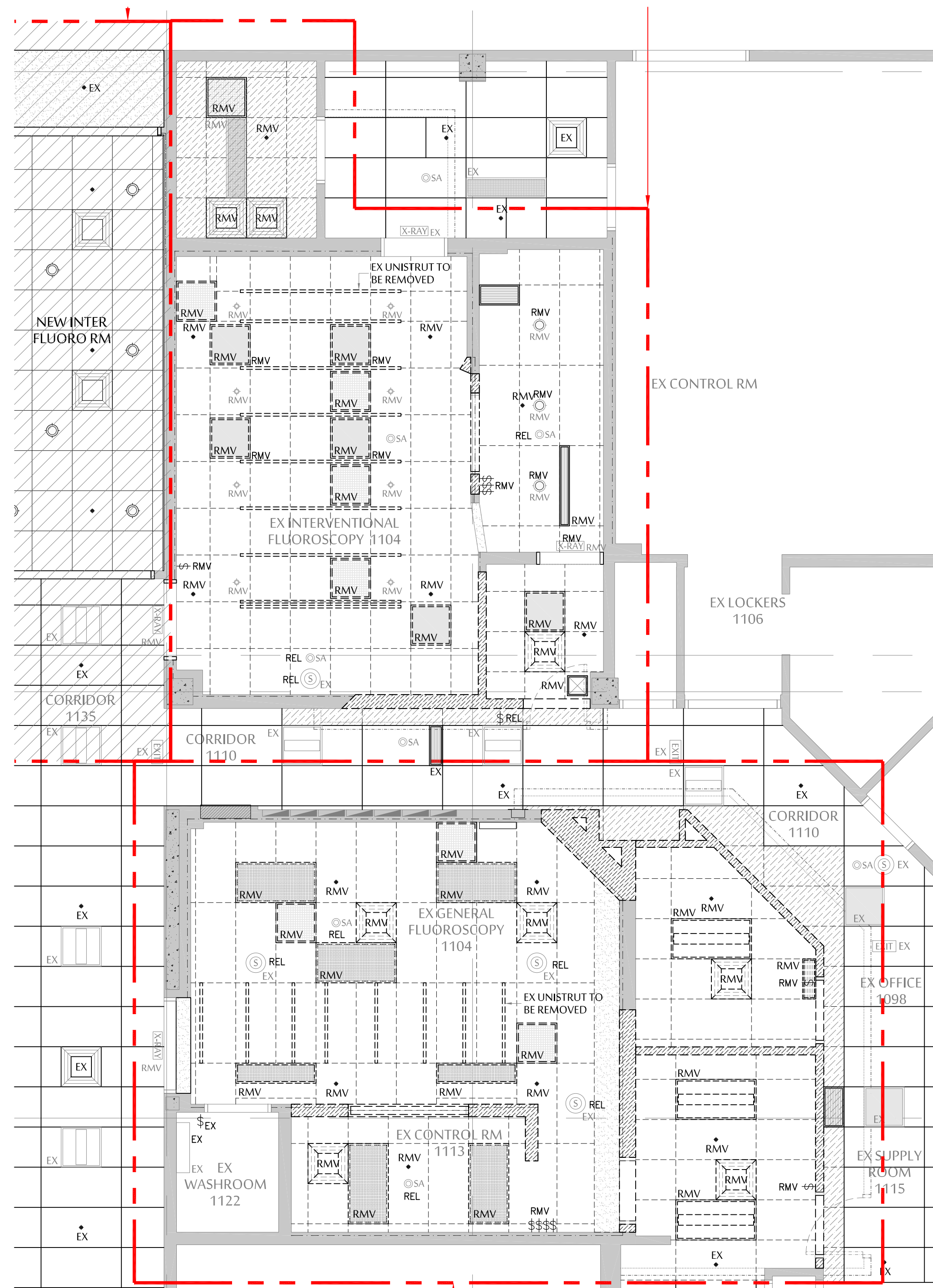
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






















PHASE 2

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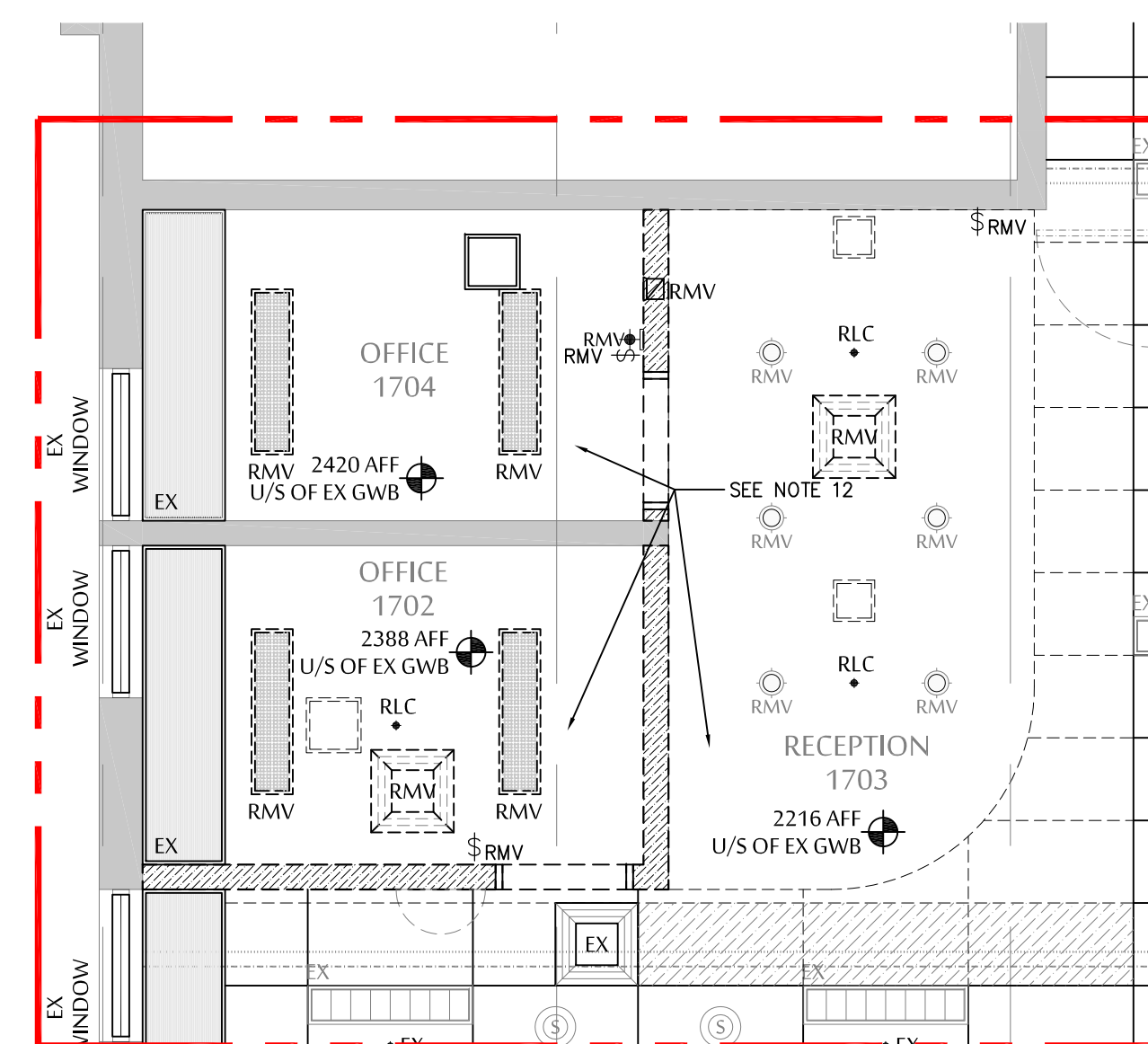
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OCT 15 2021
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20_002





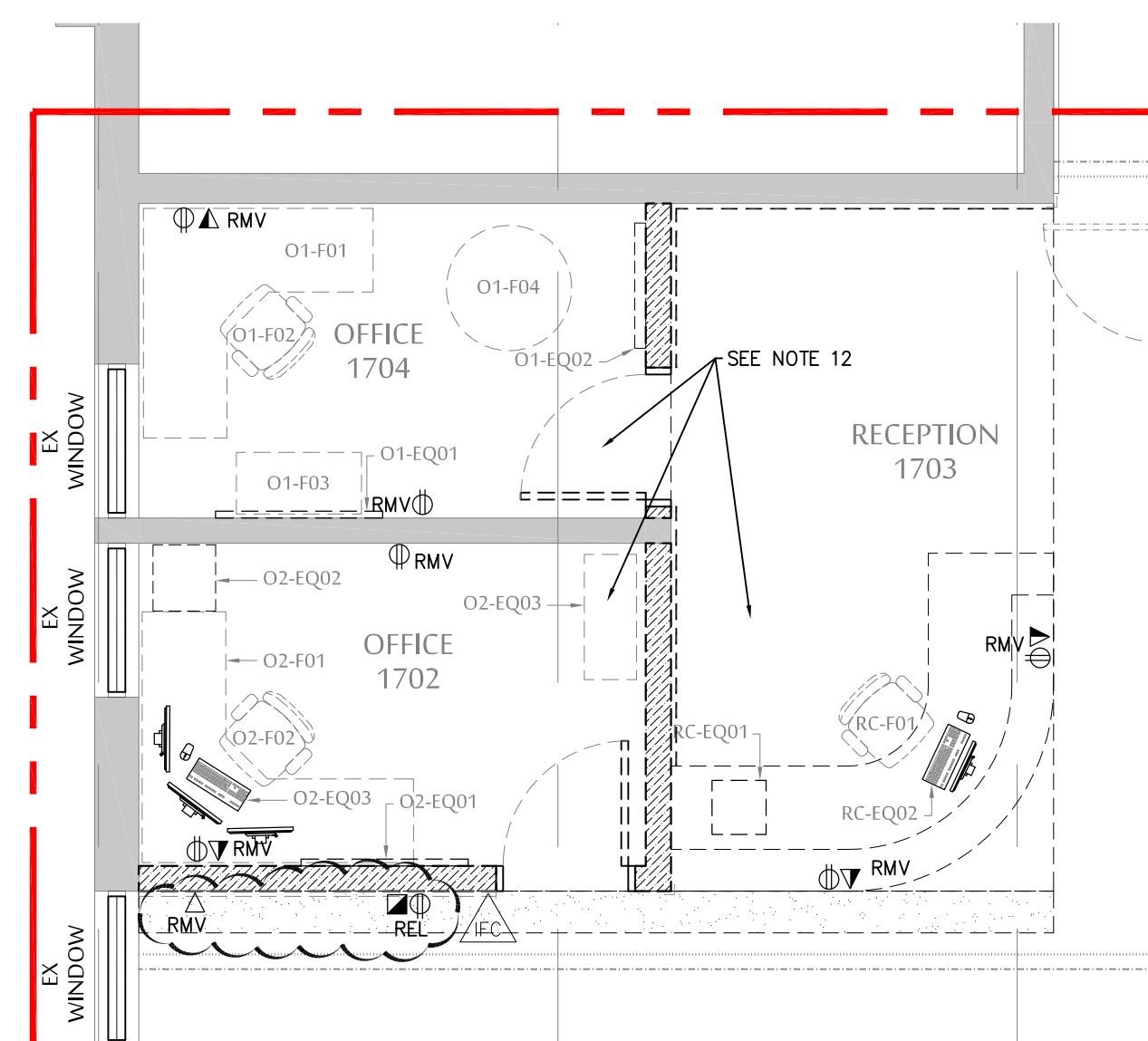
ELECTRICAL DEMOLITION LEGEND		
COUNTER HEIGHT	300mm HEIGHT	ITEM DESCRIPTION
		DUPLEX RECEPTACLE
		COMMUNICATION OUTLET
		NURSE CALL SYSTEM
		BATH PULL CORD STATION
		NURSE CALL SYSTEM
		CODE BLUE/WHITE STATION
		NURSE CALL SYSTEM
		DOMIC LIGHT
		FIRE ALARM SYSTEM
		MANUAL PULL STATION
		FIRE ALARM SYSTEM
		FIRE DETECTOR
		CEILING MOUNT SPEAKER
		FIRE/PAGING
		FIRE ALARM SYSTEM
		DOOR HOLDER
		BLANKED OFF OUTLET BOX
		LIGHT SWITCH
		EXIT SIGN
		EXISTING LIGHT FIXTURE
		EXISTING LIGHT FIXTURE
		XRAY IN USE SIGN

RMV = EQUIPMENT TO BE REMOVED
REL = EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
EX = EXISTING EQUIPMENT TO REMAIN IN CURRENT LOCATION
REP = EXISTING EQUIPMENT TO BE REPLACED WITH NEW



- DEMOLITION NOTES:

1. NURSE CALL EQUIPMENT TO BE REMOVED, KEPT SAFE AND TURNED OVER TO THE OWNER.
2. FIRE ALARM EQUIPMENT TO BE REMOVED, KEPT SAFE AND REUSED IN NEW LOCATIONS SHOWN.
3. PAGING AND FIRE ALARM SPEAKERS TO BE REMOVED, KEPT SAFE AND REUSED IN NEW LOCATIONS SHOWN.
4. EXISTING LIGHTING, SWITCHES, RECEPTACLES, DATA OUTLETS TO BE REMOVED AND DISPOSED/RECYCLED OFF SITE BY CONTRACTOR.
5. LINE VOLTAGE WIRING TO BE REMOVED BACK TO NEAREST JUNCTION BOX. WHEN ALL ITEMS ON A CIRCUIT ARE REMOVED, TURN OFF THE BREAKER AND LABEL AS "SPARE".
6. WHERE ELECTRICAL OUTLETS ARE TO REMAIN, REPLACE EXISTING RECEPTACLE WITH NEW DEVICE AND NEW STAINLESS COVEPLATE.
7. COMMUNICATION WIRING TO BE REMOVED BACK TO DATA/TEL CLOSET. COORDINATE WITH UHBNIC IT DEPARTMENT TO REMOVE WIRING FROM DATA BACKS.
8. NOT ALL EXISTING ELECTRICAL EQUIPMENT MAY BE SHOWN - CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION AND REMOVALS REQUIRED.
9. CONTRACTOR TO REMOVE ALL ELECTRICAL WIRING AND EQUIPMENT ASSOCIATED WITH MECHANICAL DEMOLITION - REFER TO MECHANICAL DRAWINGS FOR DETAILS.
10. EXISTING ELECTRICAL CABLES ABOVE T-BAR CEILING TO BE RAISED TO CLEAR NEW CEILING HEIGHTS. ABANDONED AND OBSOLETE WIRING TO BE REMOVED.
11. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED/RELOCATED AS REQUIRED TO CLEAR NEW CEILING HEIGHTS, AND NEW MEDICAL OR MECHANICAL CEILING AREAS TO EXAMINED DURING THE TENDER SITE MEETING TO DETERMINE EXTENT OF WORK REQUIRED IN ALL ROOMS.
12. EXISTING POWER, DATA OUTLETS AND SWITCHES TO BE REMOVED. CONTRACTOR TO CONFIRM EXISTING LOCATIONS AND QUANTITIES. EXISTING CIRCUITS TO BE REUSED FOR NEW OFFICE LOCATIONS. DATA WIRING TO BE REMOVED. EXISTING DATA CABLES MAY BE REUSED IF CAT 6 AND CAN BE RELOCATED WITHOUT SPLICING.



	ISSUED FOR CONSTRUCTION	OCT 13, 2021	SY
	ISSUED FOR TENDER	JUNE 4, 2021	SY
	ISSUED FOR 80% CD	MAY 21, 2021	SY
	ISSUED FOR BP SUBMISSION	MAY 7, 2021	SY
	ISSUED FOR DESIGN DEVELOPMENT	APR 8, 2021	SY
1	ISSUED FOR SCHEMATIC DESIGN REVIEW	MAR 19, 2021	RC
10.	REVISION	DATE	BY

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PHASE 2 - GEN FLUORO
ELECTRICAL
DEMOLITION

SCALE:

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DATE: _____

APRIL 2021

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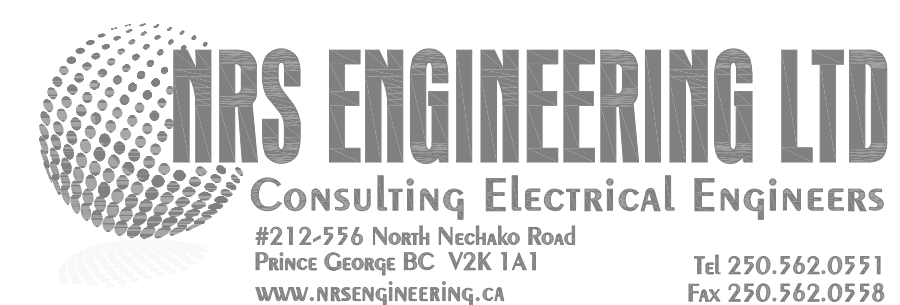
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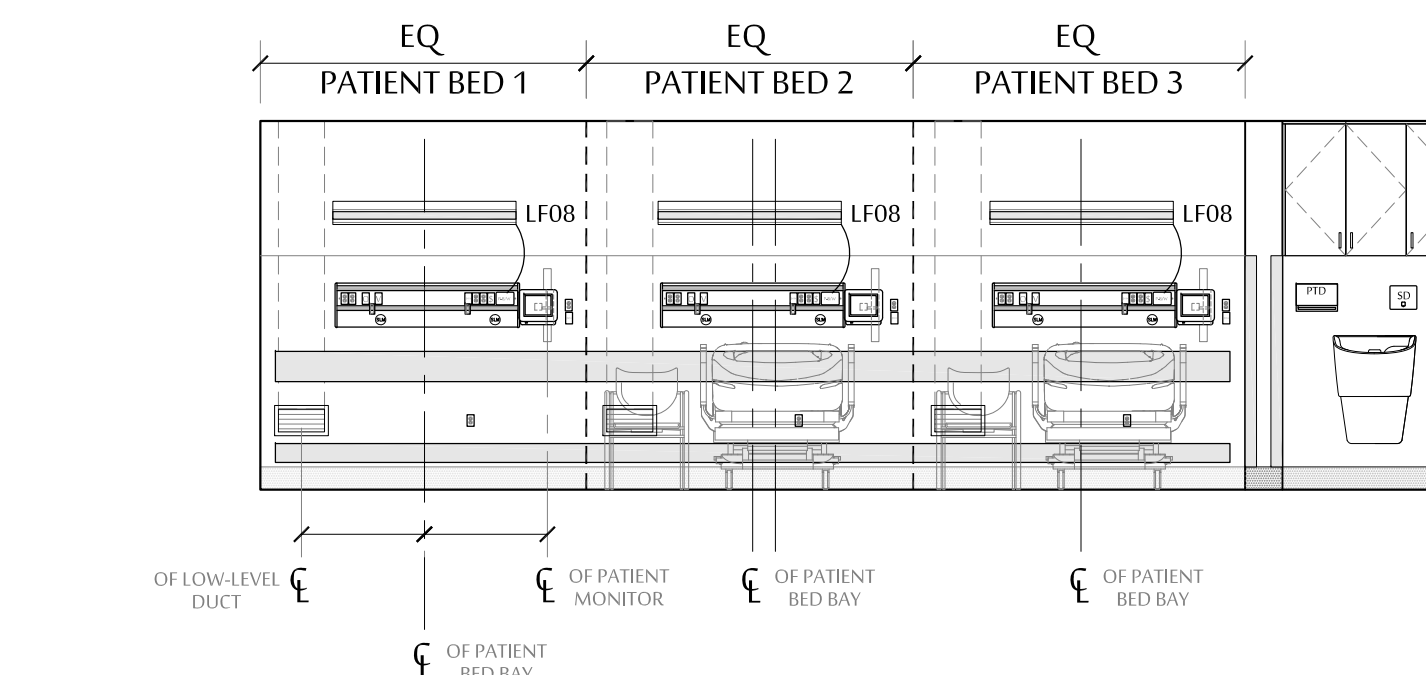
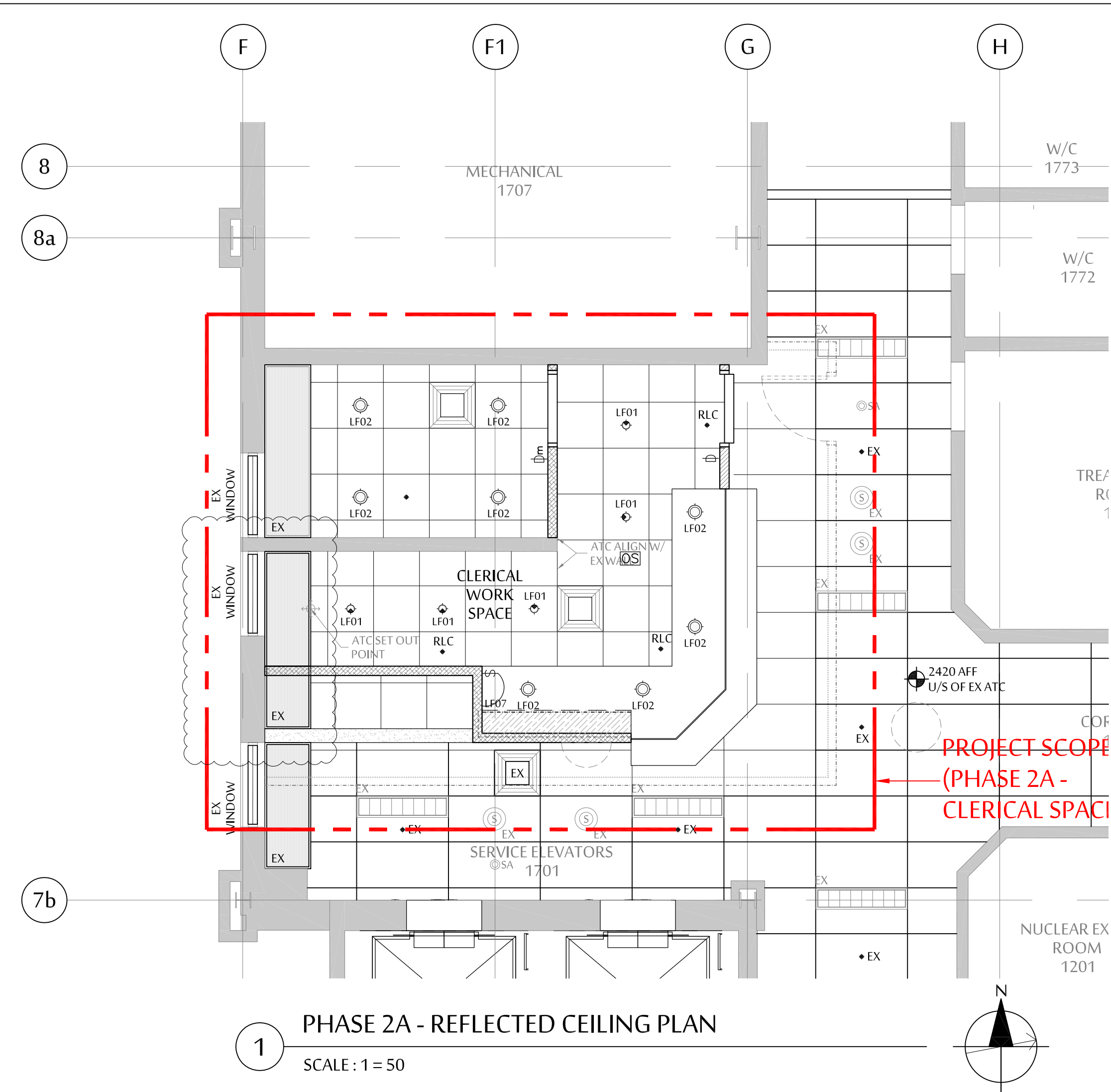
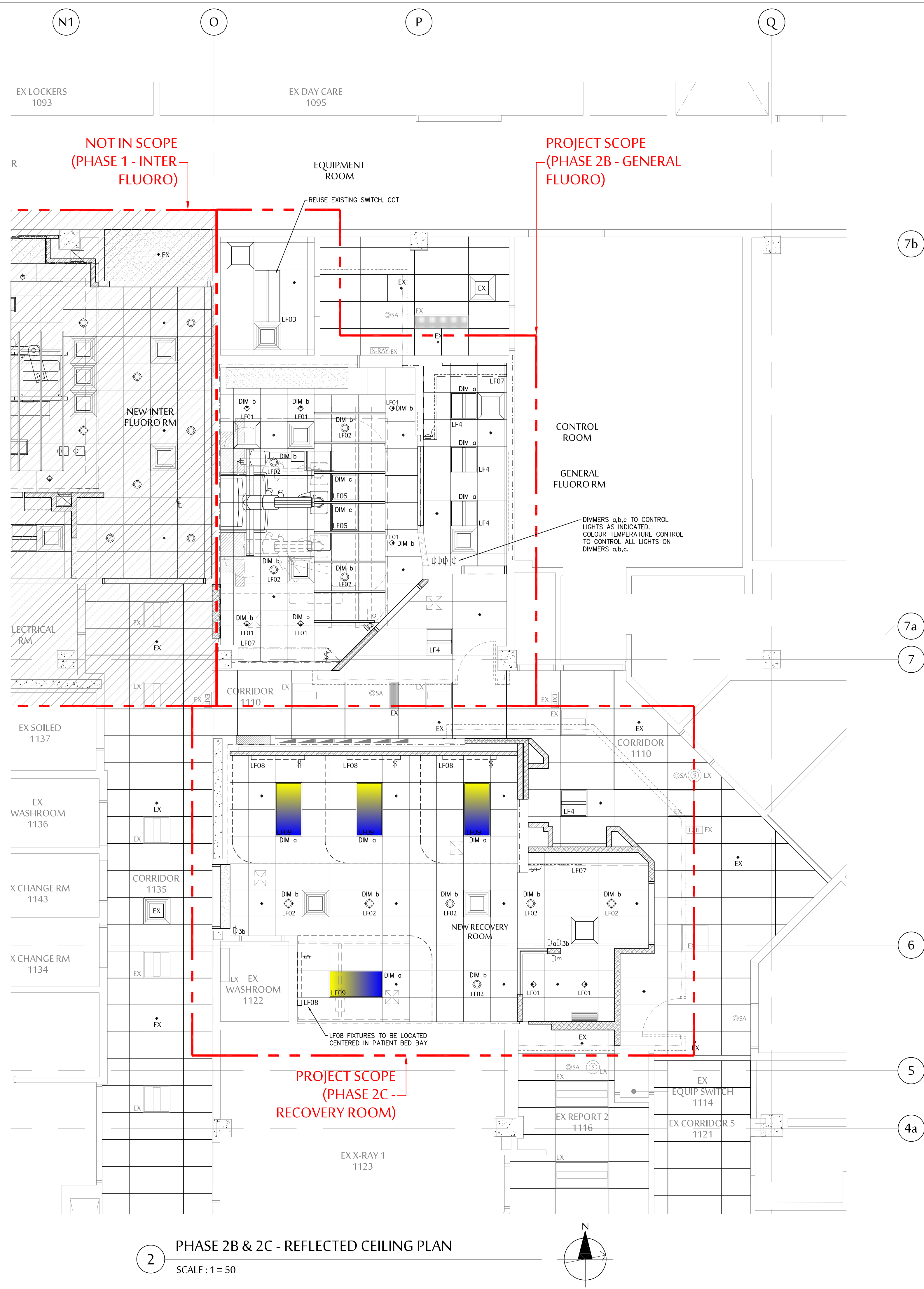
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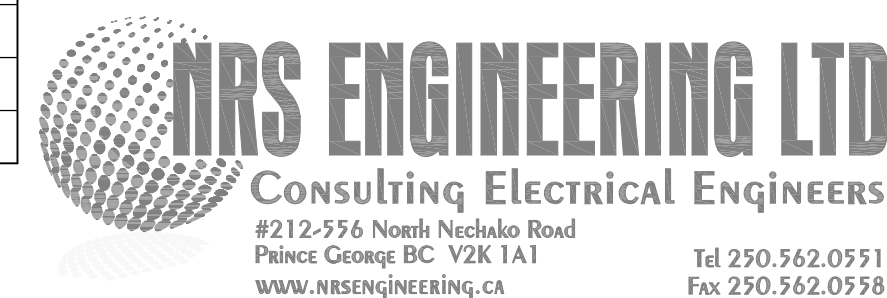
NRS2674





LIGHTING LEGEND		
LF01	RECESSED 4" LED 1% DIMMING LIGHT, WALL WASH 21 WATTS, 1500 LUMENS, TUNABLE WHITE 2700-6500K, 90 CRI	COOPER LD4B 15 D010 EU4B 1020 90 1020W2N902765 4LB SW06PH
LF02	RECESSED 4" LED 1% DIMMING LIGHT, WIDE BEAM SPREAD 21 WATTS, 3000 LUMENS, TUNABLE WHITE 2700-6500K, 90 CRI	COOPER LD4B 30 D010 EU4B 1020 90 1020W2N902765 4LB W026PH
LF03	2'x4' LED FLAT PANEL, 0-10V DIMMING 30W, 3600 LUMENS, 3500K	LITELINE LEDP-24-WH-35-30W-120
LF04	2'x2' LED ARCHITECTURAL FIXTURE, 1% 0-10V DIMMING, CLEAN ROOM 20W, 2500 LUMENS, TUNABLE WHITE 2700-3500K, 90 CRI	METALUX ENCOUNTER ENC 242 LED2 2S 2765 CA125 UNV ED10 1 90
LF05	2'x2' LED CLEANROOM FIXTURE, 0-10V DIMMING, EMERGENCY LIGHTING PACK 112W, 12,225 LUMENS, 3500K	COOPER FAILSAFE CLM-542-INS-A12125-LD4-SHI-35-120-ED10-1-EL14W
LF06	1'x2' LED CLEANROOM FIXTURE, 0-10V DIMMING 45W, 3850 LUMENS, 3500K	COOPER FAILSAFE CLM-122-INS-A12125-LD4-2HI-35-120-ED10-1-EL14W
LF07	LED UNDERCABINET LIGHTING, CUSTOM LENGTHS, 24VDC, DIMMING, WITH ALUMINUM PROFILE AND DIFFUSER, MOUNTING CLIPS 25W DIMMING POWER SUPPLY AND POWER FEEDS HWB-DIM-EDC-24V-25W	LITELINE LED-TP1VH-xx-35 (LENGTH VARIES, REFER TO DWGS) LED-TP-AL1607, LED-TP-AL1607-EC, LED-TP-AL1607-MC
LF08	4" LED WALL MOUNT PATIENT EXAM LIGHT 2600 LUMENS UP, 4500 LUMENS DOWN, 3500K, 90 CRI, LV RELAY CONTROL	COOPER FAILSAFE MWL MWL-4-28-245 UNV L335 EDD 2 WH WH LVCP
LF09	2'x4' LED SCENIC PANEL FIXTURE, 0-10V DIMMING 40W, 3500 DEK, WITH SCENIC PANEL	TRUE LIGHTING OR FAILSAFE CVEN-24-2-LD2-UNV-ED101-XXXXX-1/24
OS	CEILING MOUNT ULTRA SONIC OCCUPANCY SENSOR, 120-347V TIME DELAY 20 MIN, PIR MAX, OCCUPANCY LOGIC OPTION 1	WATTS/OPPER DT-355
\$	15A LIGHT SWITCH ANTIMICROBIAL, WITH ANTIMICROBIAL STAINLESS COVERPLATE	LEVITON A1221-2 / 84001-A40 COVER
#	LOW VOLTAGE SINGLE GANG 2 BUTTON SWITCH FOR PATIENT LIGHT LF08 BUTTON 1-UPLIGHT ON/OFF, BUTTON 2-DOWNLIGHT ON/OFF	TO BE COMPATIBLE WITH FIXTURE-PROVIDE SHOP DRAWINGS
Ⓜ	MOTION ACTIVATED DIMMER SWITCH 1250mm ABOVE FLOOR	LUTRON MS-2101-WH
Ⓜ	DIMMER SWITCH FOR LED, 3 WAY DIMMING WHERE NOTED	LUTRON NOVA-T
Ⓜ	FOR 3 WAY DIMMING USE ONE DIMMER AND ONE MA-R COMPANION DIMMER	MACL-153M-WH MA-R COMPANION DIMMER FOR 3-WAY
Ⓜ	SLIDE DIMMER SWITCH, 0-10V FOR COLOUR TEMPERATURE CONTROL	LUTRON NOVA-T
XRAY	X-RAY WARNING LIGHT - LED, 24 VOLT WITH RADIATION IN USE WORKING	BIGHELLI STELLA RM WITH SPECIAL WORKING
EXIT	LED EXIT LIGHT WITH INTEGRAL BATTERY BACKUP	BIGHELLI STELLA RM

- NOTES:
1. LIGHTING IN RECOVERY ROOM AND FLUOROSCOPY ROOM TO REUSE EXISTING ESSENTIAL POWER CIRCUITS. SHOW CIRCUITING ON AS BUILT DRAWINGS.
 2. NEW LIGHT FIXTURES IN CORRIDORS TO BE CONNECTED TO EXISTING CORRIDOR LIGHTING CIRCUITS AND CONTROLS.



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PHASE 2 - GEN FLUORO LEVEL 1 REFLECTED CEILING PLAN

SCALE:

1: 50

DATE:

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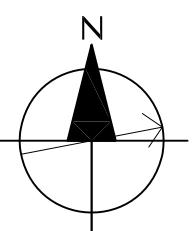
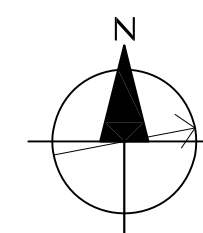
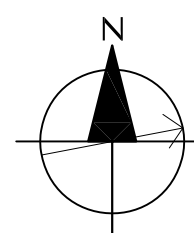
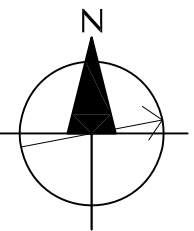
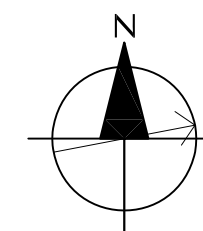
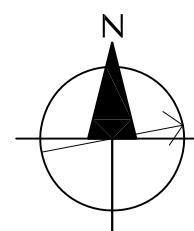
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PHASE 2
E2.02



1. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION PLANS AND LOCATIONS OF WORK AREAS. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS AND CEILINGS BEING REMOVED OR MODIFIED.
2. EXISTING CIRCUITS MAY BE REUSED FOR NEW RECEPTACLES AND EQUIPMENT - SHOW CIRCUITS USED ON AS BUILT DRAWINGS. REMOVE ALL UNUSED BRANCH WIRING BACK TO NEAREST JUNCTION BOX. LABEL ANY UNUSED CIRCUITS AS "SPARE" ON PANEL DIRECTORY AND TURN BREAKERS OFF.
3. EXISTING DATA WIRING MAY BE REUSED IF IT IS CATEGORY 6, OTHERWISE INSTALL NEW DATA WIRING. REMOVE ALL UNUSED DATA WIRING BACK TO RACK.

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PHASE 2

E2.03

FLUOROSCOPY MACHINE INSTALL NOTES:

1. CONTRACTOR TO REFER TO SIEMENS IFC DRAWINGS FOR ALL INSTALLATION REQUIREMENTS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, WIRING AND LABOUR REQUIRED TO PERFORM ALL WORK SHOWN ON SIEMENS DRAWINGS.
2. GENERALLY, WORK REQUIRED BY ELECTRICAL CONTRACTOR INCLUDES:
CONDUITS, FEEDER, PANELBOARD AND BREAKERS
FEEDERS TO GENERATOR CABINET AND UPS
INTERCONNECTING WIRING OF UPS AND FEEDERS FROM UPS TO SYSTEM CABINET
GROUNDING FROM POWER SUPPLIES TO CONNECTION POINTS AT CABINETS & UPS
EMERGENCY STOP BUTTONS AND WIRING
XRAY IN USE SIGNS AND WIRING
CONNECTION AND RELAYS FOR LIGHTING CIRCUITS TO FLUOROSCOPY CONTROL
3. INFORMATION SHOWN ON ELECTRICAL DRAWINGS IS FOR GENERAL REFERENCE ONLY AND DOES NOT SHOW ALL WORK REQUIRED. CONTRACTOR TO REVIEW SIEMENS IFC DRAWINGS BEFORE SUBMITTING TENDER.
4. ELECTRICAL CONTRACTOR RESPONSIBLE FOR COMPLETE INSTALLATION OF UPS FOR SIEMENS EQUIPMENT – REFER TO EQUIPMENT DRAWINGS.

RACEWAY SCHEDULE

RUN		DESIGNATION		MOUNTING		SIZE	
FROM POINT / RUN(R)	TO POINT / RUN(R)	DUCT (CABLE WIREWAY)	CONDUIT	TRENCH (DUCT/FLOOR FLUSH)	CABLE DUCT(V)	CONTAINS POWER SUPPLY CABLES	REMOVABLE ACCESSIBLE COVER
#	1a	OD	PUT	TO POINT / RUN(R)	CONDUIT	# OF EQUAL COMPARTMENTS	SUPER-FLEX CONDUCTORS ONLY
#	1b	X5	SC	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	1c	OD	X5	SURFACE FLUSH ACCESS FL(A)	SURFACE FLUSH ACCESS FL(A)	SURFACE FLUSH ACCESS FL(A)	SURFACE FLUSH ACCESS FL(A)
#	2	CR	EM	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	3	X3	RI	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	4	D1	IS	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	5	D1	SC2	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	6	X3	X4	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	7	CR	X3	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	8	X2	X3	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	9	X1	X2	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	10	X2	X4	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	11	IS	X3	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	12a	CR	SPK	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	12b	CR	MC	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	13	X5	M1	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	14a	EX1	EX3	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE
#	14b	EX1	EX3	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE

CONNECTION POINT SCHEDULE

POINT		DESIGNATION		MOUNTING		SIZE	
#	POINT	ON/OFF DISCONNECT	CONTACTOR	EMERGENCY SHUNT TRIP	PULL BOX	ACCESS FLOOR OPENING	SLEEVE TERMINATION
#	CR1, CU1	SPK	CONDUIT TERMINATION	DUCT TERMINATION	REMOVABLE COVER	DUCT COVER PLATE OPENING	GROMMETED HOLE DIAMETER
#	D1	EM	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE	ACCESS FLOOR SPACE
#	IS, EX3	MC	FLUSH WALL(W)	CEILING SPACE ABOVE	CEILING SPACE BELOW	ACCESS FLOOR SPACE	ACCESS FLOOR SPACE
#	OD	P1	PU	PU1	F	F	F
#	RI	SC	SC1	SC2	W	4"	4"x8"
#	SPK	X1-X5	MC	F	F	F	F
#	UPS	F	F	F	F	F	F

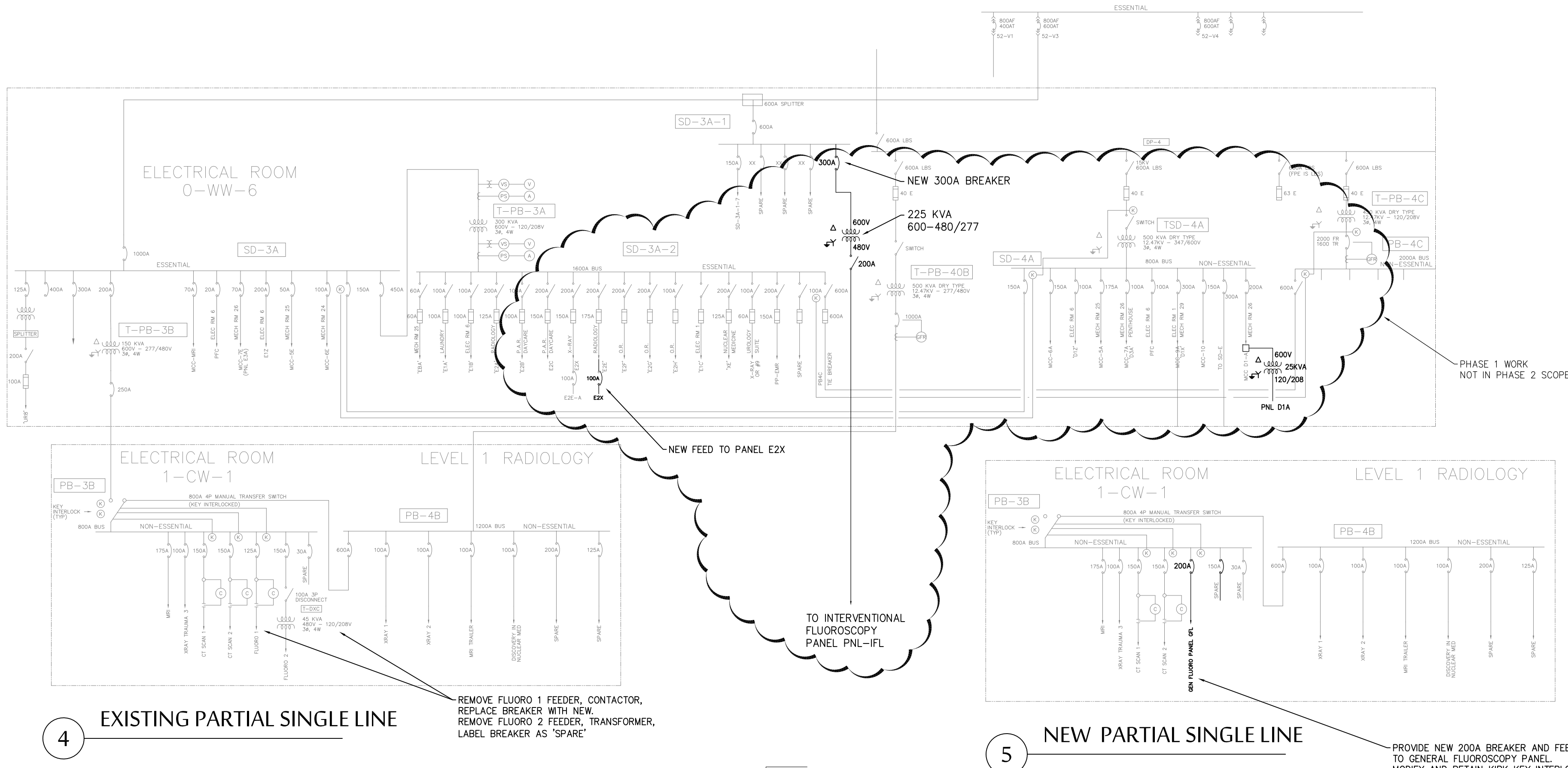
- *1 Emergency Shunt Trip (EST) is at the customer's discretion (optional), unless required by local electrical code. To ensure that the EST does not become disabled unintentionally, the shunt trip is to be supplied with continuous power (e.g., emergency/critical hospital power) or from the main system power supply. All EST devices to be equipped with a hinged plastic clear cover to protect against accidental activations (by others).
- *2 Siemens provides low voltage control switch.
- *3 The ON/OFF disconnect should be located in the control room or near the generator cabinet (supplied and installed by contractor).
- *4 In case of an emergency, the UPS must be switched OFF and held, until mechanical/electrical reset, via an on-site EPO/EM switch.
- *5 See Schematic Diagram for pull box height.
- *6 Conduit and power supply cables supplied by contractor.
- *7 Customer to confirm and provide information for any additional raceways (size and number of conduits required) and connection points (location and termination type/size) for external connections to the monitors.
- *8 The final location of MC and SPK to be coordinated with the customer.

PHASE 1 - RACEWAY AND CONNECTION SCHEDULE
NTS

PHASE 1 - RACEWAY LAYOUT
SCALE: 1 = 50

RACEWAY LAYOUT IS SCHEMATIC ONLY - CONTRACTOR TO ENSURE CONDUIT RUNS ARE ARRANGED SO THAT THEY DO NOT EXCEED THE MAXIMUM CABLE LENGTHS SHOWN ON SIEMENS DRAWINGS. REFER TO SIEMENS IFC DRAWINGS

PHASE 1 - LIGHTING CONTROL SCHEMATIC
NTS



PANEL E2X		MOUNTING: SURFACE	
DESCRIPTION: ESSENTIAL POWER - IMAGING		FEEDER: 4c#3	
BUS: 100A		BUS: 100A	
MAIN BREAKER		NONE	
Circuit Description		Circuit Description	
HG	INTER FLUORO ROOM RECEPT	1	2 INTER FLUORO CNTL RM REC
	20A	15A	
HG	INTER FLUORO ROOM RECEPT	3	4 INTER FLUORO CNTL RM REC
	20A	15A	
HG	INTER FLUORO ROOM RECEPT	5	6 INTER FLUORO CNTL RM REC
	20A	15A	
HG	INTER FLUORO ROOM RECEPT	7	8 INTER FLUORO CNTL RM REC
	20A	15A	
HG	INTER FLUORO ROOM RECEPT	9	10 INTER FLUORO CNTL RM REC
	20A	15A	
HG	INTER FLUORO FLOORBOX REX	11	12 INTER FLUORO CNTL RM REC
	20A	15A	
HG	INTER FLUORO LIGHTING	13	14
	15A	15A	
HG	INTER FLUORO LIGHTING	15	16 FAN COIL UNIT
	15A	15A	
HG	INTER FLUORO LIGHTING	17	18
	15A	15A	
HG	INTER FLUORO ADO DOOR PWR	19	20
	15A	15A	
HG	CONTRAST WARMER	21	22 SPARE
	20A	15A	
HG	PATIENT MONITOR	23	24 SPARE
	15A	15A	
HG	SPARE	25	26 SPARE
	15A	15A	
HG	SPARE	27	28 SPARE
	15A	15A	
HG	SPARE	29	30 GEN FLUORO EQUIPMENT RM
	15A	15A	
HG	SPARE	31	32 FAN COIL
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	33	34 GEN FLUORO CONT RM REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	35	36 GEN FLUORO CONT RM REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	37	38 GEN FLUORO CONT RM REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	39	40 GEN FLUORO CONT RM REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	41	42 GEN FLUORO CONT RM REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	43	44 RECOVERY RM BAY 1 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	45	46 RECOVERY RM BAY 1 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	47	48 RECOVERY RM BAY 1 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	49	50 RECOVERY RM BAY 1/2 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	51	52 RECOVERY RM BAY 2 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	53	54 RECOVERY RM BAY 3 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	55	56 RECOVERY RM BAY 3 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	57	58 RECOVERY RM BAY 3 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	59	60 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	61	62 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	63	64 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	65	66 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	67	68 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	69	70 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	71	72 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	73	74 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	75	76 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	77	78 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	79	80 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	81	82 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	83	84 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	85	86 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	87	88 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	89	90 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	91	92 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	93	94 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	95	96 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	97	98 RECOVERY RM BAY 4 REC
	15A	15A	
HG	GEN FLUORO RM RECEPTABLES	99	100 RECOVERY RM BAY 4 REC
	15A	15A	

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ARCHITECT :

DCYT ARCHITECTURE
HEALTHCARE COMMERCIAL RESIDENTIAL INTERIOR DESIGN

WWW.DCYTARCHITECTURE.CA

ISSUED FOR CONSTRUCTION OCT 13, 2021 SY
ISSUED FOR TENDER JUNE 4, 2021 SY
ISSUED FOR 80% CD MAY 21, 2021 SY
ISSUED FOR BP SUBMISSION MAY 7, 2021 SY
ISSUED FOR DESIGN DEVELOPMENT APR 8, 2021 SY
ISSUED FOR SCHEMATIC DESIGN REVIEW MAR 19, 2021 RC

No. REVISION DATE BY

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1475 EDMONTON STREET, PRINCE GEORGE BC V2M 1S2

PHASE 2 - GEN FLUORO ELECTRICAL DETAILS

SCALE: 1 : 50
DATE: APRIL 2021
DRAWN: SY
CHECKED: DC
JOB NO: NRS2674

PHASE 2
E3.01

16.1 GENERAL

- THE CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED FOR THE WORK, TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION.
2. IT IS THE INTENT OF THE DRAWINGS AND NOTES TO PROVIDE A COMPLETE AND WORKABLE INSTALLATION. ANY WORK, FITTING AND/OR NECESSARY MATERIAL NOT SPECIFICALLY MENTIONED OR SHOWN ON THE PLANS, BUT OBVIOUSLY NECESSARY TO COMPLETE THE INSTALLATION, SHALL BE FURNISHED BY THE CONTRACTOR AS IF SPECIFICALLY MENTIONED HEREIN AND DETAILED.
3. EXAMINE THE SITE OF WORK AND BECOME FAMILIAR WITH ALL FEATURES AND CHARACTERISTICS AFFECTING THIS WORK BEFORE SUBMITTING TENDER. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR EXTRA WORK DUE TO EXISTING CONDITIONS WHICH SUCH EXAMINATION SHOULD HAVE DISCLOSED.
4. IF DISCREPANCIES OR OMISSIONS IN THE DRAWINGS ARE FOUND, OR IF INTENT OR MEANING IS NO CLEAR, ADVISE THE ENGINEER FOR CLARIFICATION BEFORE SUBMITTING TENDER.
5. MAINTAIN A MARKED UP SET OF "AS BUILT" DRAWINGS ON THE SITE AND SUBMIT TO THE ENGINEER AT COMPLETION OF THE PROJECT.
6. ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CANADIAN ELECTRICAL CODE C22.1, CURRENT EDITION AS MODIFIED FOR USE IN BRITISH COLUMBIA, TOGETHER WITH ALL DIRECTIVES, SUBORDINATE AMENDMENTS BY AUTHORITIES HAVING JURISDICTION OVER THE WORK AND ALL LOCAL BYLAWS.
7. REQUESTS FOR APPROVAL OF ALTERNATE MATERIALS MUST BE SUBMITTED AS FOLLOWS: FOUR COPIES OF DRAWING AND SPECIFICATION ARE TO BE SUBMITTED, CLEARLY INDICATING WHICH MAKE, MODEL AND/OR CATALOGUE NUMBER IS PROPOSED AND TO WHICH PRODUCT IT IS SUBMITTED AS EQUAL.
8. IMMEDIATELY AFTER NOTIFICATION OF AWARD OF CONTRACT, SUBMIT A LIST OF PROPOSED PRODUCTS. AFTER RECEIVING APPROVAL OF LIST OF PRODUCTS AND PRIOR TO DELIVERY OF ANY PRODUCTS TO JOB SITE, SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW.
9. SHOP DRAWINGS TO BE SUBMITTED VIA EMAIL IN PDF FORMAT FOR ALL ELECTRICAL EQUIPMENT TO BE USED ON THE PROJECT. FIRST PROGRESS PAYMENT WILL NOT BE APPROVED UNTIL ALL SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
10. ALL PRODUCTS PROVIDED SHALL BE APPROVED BY CSA, OR OTHER B.C. ACCREDITED TESTING AND CERTIFICATION ORGANIZATION, OR CARRY AN EQUIVALENT APPROVAL ACCEPTABLE TO THE BC INSPECTION AUTHORITY AND SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.
11. UNLESS OTHERWISE SPECIFICALLY CALLED FOR IN THE DRAWINGS, UNIFORMITY OF MANUFACTURER SHALL BE MAINTAINED FOR SIMILAR PRODUCTS THROUGHOUT THE WORK.
12. EXAMINE THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS OF THE PROJECT. BEFORE COMMENCING WORK, OBTAIN A RULING FROM THE ENGINEER IF ANY CONFLICT EXISTS; OTHERWISE NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY NECESSARY ADJUSTMENTS.
13. MAINTAIN SEPARATION BETWEEN ELECTRICAL WIRING SYSTEM AND BUILDING PIPING, DUCT WORK, ETC., SO THAT WIRING SYSTEM IS ISOLATED (EXCEPT AT APPROVED CONNECTIONS TO SUCH SYSTEMS) TO PREVENT GALVANIC CORROSION OR OTHER ADVERSE CONDITIONS. DO NOT USE TIE-WIRMS TO SUPPORT WIRING FROM PIPING, BUILDING OR OTHER SYSTEMS.
14. BEFORE ENERGIZING THE SYSTEM, CHECK ALL CONNECTIONS AND SET AND CALIBRATE ALL CIRCUIT BREAKERS, RELAYS AND INSTRUMENTS FOR PROPER OPERATION. OBTAIN NECESSARY CLEARANCES, APPROVAL AND INSTRUCTIONS FROM SUPPLY AUTHORITY.
15. ARRANGE FOR AND PAY ALL COSTS ASSOCIATED WITH ALL CUTTING AND PATCHING REQUIRED AS A RESULT OF WORK PERFORMED BY THIS DIVISION. REPAIR ANY DAMAGED SURFACES TO THE CONDITION OF SURROUNDING SURFACES AT NO COST TO THE OWNER.
16. ALL EQUIPMENT REMOVED AND MADE SURPLUS BY THE PROJECT SHALL BE REVIEWED WITH THE OWNER TO DETERMINE IF THEY WISH TO RETAIN IT. ALL EQUIPMENT NOT IDENTIFIED AS BEING RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRASH REMOVAL AND DISPOSAL COSTS. ALL EQUIPMENT IDENTIFIED AS BEING RETAINED BY THE OWNER SHALL BE CAREFULLY REMOVED AND TRANSPORTED BY THE CONTRACTOR TO A LOCATION ON SITE DETERMINED BY THE OWNER. WHERE EVER POSSIBLE, ALL EQUIPMENT REMOVED SHALL BE SENT FOR RECYCLING OR SALVAGE. ANY SALVAGE VALUE MAY BE RETAINED BY THE CONTRACTOR.
17. PROVIDE A WRITTEN GUARANTEE AGAINST ALL DEFECTIVE MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF THE SUBstantial COMPLETION.
18. PROVIDE ALL PERMITS AND LICENSES

1. CONDUCTORS ARE TO BE COPPER WITH 600V MIN. INSULATION OF CHEMICALLY CROSS-LINKED THERMOSETTING POLYETHYLENE MATERIAL. NO WIRE SMALLER THAN #12 AWG SOLID FOR BRANCH CIRCUIT. CONTROL WIRING SHALL BE #14 AWG OR #12 AWG STRANDED, OR AS INDICATED ON THE DRAWING.
2. ALL BUILDING WIRE SHALL BE AWG/MCM GAUGE, 95% CONDUCTIVITY COPPER WITH MINIMUM 600V INSULATION, AND BEAR CSA APPROVAL LABEL. ALARM AND COMMUNICATION CABLES ARE TO BE TYPES APPROVED FOR THE AREA OF INSTALLATION AND AS RECOMMENDED BY THE MANUFACTURER OF THE SPECIFIC EQUIPMENT.
3. SOLDERLESS, SELF-INSULATED CONNECTORS FOR HAND TWIST JOINTS FOR LIGHTING, SMALL POWER, HEATING AND ASSOCIATED CONTROL DEVICES, ARE TO BE IDEAL "WING-NUT", OR ENGINEER APPROVED EQUAL.
4. TERMINATE CONDUCTORS #6AWG AND LARGER WITH THOMAS & BETTS COLOUR-KEYED COMPRESSION CONNECTORS SERIES 54000 OR ON LUGS PROVIDED WITH EQUIPMENT. PROVIDE THOMAS & BETTS "CORE-SHOULD" COMPOUND SERIES CP8 ON ALL TERMINATIONS FOR COMPRESSION CONNECTORS.
5. INSTALL AND RATE WIRE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE REQUIREMENTS, AS AMENDED FOR USE IN BRITISH COLUMBIA AND IN ACCORDANCE WITH THE DRAWINGS, UNLESS OTHERWISE NOTED ON SINGLE LINE PANEL FEEDERS AND SERVICES TO MECHANICAL EQUIPMENT 100 AMP OR LARGER MAY BE IN ALUMINUM, PROVIDED THE AMPACITY IS EQUAL TO OR GREATER THAN THE SPECIFIED COPER FEEDER. CONDUCTOR AMPACITY TO BE RATED IN ACCORDANCE WITH THE TEMPERATURE RATING OF THE EQUIPMENT BEING SERVED.

2. ALL WIRING IS TO BE IN EMT CONDUIT EXCEPT WHERE OTHERWISE INDICATED.
3. ALL EMPTY CONDUIT IS TO BE LEFT WITH 4mm NYLON PULLCORD INSTALLED.
4. ALL CONDUIT IS TO BE SUPPORTED BY CSA APPROVED METALLIC TWO-HOLE CONDUIT STRAPS, BY CONDUIT AND CONDUIT CLAMPS. SECURE CONDUIT WITH APPROVED SUPPORTS WITHIN 3 FEET OF EVERY JUNCTION BOX OR PANEL. TY-WRAPS ARE NOT ACCEPTABLE FOR ANY SUPPORT ON THIS PROJECT.
5. WHERE NOT OTHERWISE INDICATED, CONDUIT SHALL BE SIZED TO THE NUMBER AND TYPE OF CONDUCTORS USED. CONDUIT FILL SHALL NOT EXCEED THE MAXIMUM CONDUIT FILL ALLOWED UNDER THE CANADIAN ELECTRICAL CODE, RULE 12-1014.
6. SURFACE RUNS OF CONDUIT WILL BE NEAT IN APPEARANCE, INSTALLED IN STRAIGHT RUNS FOLLOWING LINES OF THE BUILDING.
7. BENDS WILL NOT BE MADE OVER SHARP OBJECTS. IMPROPERLY FORMED BENDS WILL NOT BE ACCEPTED. CONDUITS ARE TO BE LAID OUT TO AVOID INTERFERENCE WITH OTHER WORK AND TO AVOID POCKETS IN WHICH WATER CAN COLLECT.
8. EXPANSION JOINTS SHALL BE INSTALLED IN ALL STRAIGHT CONDUIT RUNS EXCEEDING 100 METERS AND ALL TRANSITIONS FROM BELOW TO ABOVE GRADE CONDUIT UNLESS EXPLICITLY STATED OTHERWISE.
9. BEFORE PULLING WIRE, ENSURE CONDUIT IS DRY AND CLEAN. IF MOISTURE IS PRESENT, THOROUGHLY DRY OUT CONDUITS, VACUUM IF NECESSARY. EMPLOY SUTABLE TECHNIQUES TO PREVENT DAMAGE TO WIRE AND INSULATION DURING PULLING. CONDUITS SHALL BE CAPPED AT INSTALLATION TO PREVENT ENTRY OF FOREIGN MATERIAL.
10. GALVANIZED RIGID CONDUIT IS TO BE USED ABOVE GROUND AND RIGID PVC CONDUIT BELOW GROUND, SIZED AS INDICATED ON THE DRAWINGS. EXPOSED CONDUITS ARE TO BE COMPLETELY PAINTED AFTER INSTALLATION TO MATCH SURROUNDING SURFACES.
11. NOTWITHSTANDING PREVIOUS PARAGRAPH INDOOR RUNS OF CONDUIT NOT SUBJECT TO MECHANICAL DAMAGE MAY BE OF EMT USING STEEL BODIED SET-SCREW COUPLINGS AND CONNECTORS. CONNECTORS WILL HAVE INSULATED THROTS.
12. CONCEAL RACEWAYS WITHIN ATTIC SPACES, CRAWL SPACES AND WITHIN WALLS. SURFACE RACEWAYS WILL BE PERMITTED IN ELECTRICAL AND MECHANICAL ROOMS ONLY. SURFACE RACEWAYS IN OTHER AREAS SHALL ONLY BE ACCEPTABLE WHEN APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SURFACE RACEWAYS IN PUBLIC AREAS SHALL BE WIREMOLD, WITH ALL CONNECTORS, BOXES AND HARDWARE, COLOUR TO MATCH SURROUNDING SURFACES.

1. INSTALL A COMPLETE, PERMANENT GROUNDING AND BONDING SYSTEM. ENSURE UNIFORMITY OF GROUNDING PRACTICES THROUGHOUT INSTALLATION.
2. GROUNDING EQUIPMENT AND BONDING CONDUCTORS ARE TO BE BARE, STRANDED, SOFT ANNEALED COPPER, UNLESS THEY ARE PART OF A MULTI-CONDUCTOR CABLE CONSTRUCTION OR REQUIRED TO BE INSULATED BY CEC RULE 10-806(5).
3. PROVIDE A GROUND BUS IN THE ELECTRICAL ROOM TO CONNECT ALL GROUNDING COMPONENTS, INCLUDING MAIN SERVICE GROUNDS, MAIN CPD/SWITCHBOARD, TRANSFORMERS, WATER LINES, BUILDING STEEL, GAS LINES AND SIMILAR EQUIPMENT. LABEL EACH CONNECTING GROUND WIRE.

1. PROVIDE A COMPLETE SYSTEM OF LAMICOID LABELS, WIRE LABELS AND OTHER ITEMS TO COMPLETELY IDENTIFY ALL ELECTRICAL SYSTEMS. LABELS ARE TO BE 3 PLY LAMICOID, OUTER PLYS TO BE 1/8" THICK. THE CENTER PLY IS TO BE 6mm THIN, CENTERED ON LABEL. LABELS ARE TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INCLUDING THE MAIN SWITCH, SPLITTER, DISCONNECT SWITCH, DISTRIBUTION BOX, METER, METER RACKS, METER RECEPTACLES. CONFIRM EXACT WORDING WITH ENGINEER PRIOR TO MANUFACTURING LABELS.
2. LABELS FOR OUTLETS AND JUNCTION BOXES MAY BE OF A TYPE SIMILAR TO BROTHER P-TOUCH, CLEAR LABEL WITH BLACK LETTERING. ALL LABELS MUST BE CLEAN AND INSTALLED TO THE SATISFACTION OF THE ENGINEER, EXCEPT THAT LABELS FOR ALL 'HG' OUTLETS ARE TO BE LAMICOID INDICATING CIRCUIT NUMBER.

FOR ALL WIRE CONTAINED IN CONTROL PANELS PROVIDED BY THIS DIVISION, PROVIDE PERMANENT WRAP-ON OR OTHER TYPE OF WIRE MARKERS AT BOTH ENDS OF EACH WIRE. NO WRAP-ON MARKERS WILL BE ACCEPTABLE.

1. LINE VOLTAGE AND LOW VOLTAGE CONTROL WIRING WILL BE BY DIVISION 15. POWER SUPPLY TO MECHANICAL EQUIPMENT IS BY DIVISION 16. MOTOR STARTERS, CONTACTORS, RELAYS AND DISCONNECT SWITCHES ARE TO BE PROVIDED BY DIVISION 16.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR OR CONTROLS CONTRACTOR TO DETERMINE LINE VOLTAGE WIRING REQUIREMENTS, CONTROL WIRING REQUIREMENTS AND TYPE OF STARTERS REQUIRED.

1. FIXTURES ARE TO BE LOCATED TO SCALE FROM DRAWINGS. EXACT LOCATION IS TO BE DETERMINED BY SITE CONDITIONS.
2. ALL LIGHT FIXTURES WILL BE CLEANED AFTER INSTALLATION AND LEFT FREE OF DIRT, GREASE, CHIPS, DENTS AND DEFECTS.
3. REFER TO LIGHTING LEGEND FOR DESCRIPTION OF ALL LIGHT FIXTURES.
4. RECESSED FIXTURES SHALL BE REMOVABLE. THEY ARE TO BE CONNECTED TO JUNCTION BOX USING AT LEAST 3000mm of 12mm FLEXIBLE CONDUIT AND APPROVED FIXTURE WIRE OR ACRO CABLE. JUNCTION BOX MUST BE ACCESSIBLE AND LOOPING BETWEEN FIXTURES WILL NOT BE ACCEPTED.
5. PROVIDE TWO AIR CRAFT CABLE HANGER WIRES, INDEPENDENT OF THE T-BAR CEILING, FOR ALL NEW RECESSED FIXTURES. HANGER WIRES TO BE ON OPPOSITE CORNERS OF THE FIXTURE.

1. PROVIDE AND INSTALL DISTRIBUTION PANELS AND SERVICE SWITCHGEAR TO ACCOMMODATE 600/347 VOLT AND 120/208V, 3 PHASE, 4 WIRE SYSTEMS AS INDICATED ON THE DRAWINGS.
2. PANELBOARDS ARE TO BE 42 CIRCUIT, 225 AMP UNLESS OTHERWISE INDICATED. BREAKERS ARE TO BE BOLT ON STYLE, 10,000 AMP INTERRUPTING CAPACITY BREAKERS AS REQUIRED FOR SUPPLY OF THE IDENTIFIED LOADS, PLUS SPARE 15A SINGLE POLE BREAKERS AS INDICATED.
3. PROVIDE TYPEWRITTEN PANEL DIRECTORIES FOR ALL PANELBOARDS.
4. PRE-APPROVED MANUFACTURERS ARE: EATON, SIEMENS AND SQUARE-D.

1. ALL WIRING DEVICES ARE TO BE "SPECIFICATION GRADE" UNLESS OTHERWISE INDICATED. PRE-APPROVED MANUFACTURERS ARE: ARROW-HART, BRYANT, HUBBELL, LEWTON AND PASS-SEYMOUR. DEVICES IN FLUORESCENT ROOM TO BE HOSPITAL GRADE WHERE NOTED "HG" AND WIRING TO BE IN ACCORDANCE WITH GEC SECTION 24.
2. RECEPTACLES ARE TO SPECIFICATION GRADE, HAVE IMPACT RESISTANT NYLON FACE, FOUR SIDE MOUNTED CONTACTS, TRIPLE POLE POWER CONTRACTS AND RIVETED GROUNDING CONTACTS. CSA TYPE 5-15R, 125V RATED.
3. LIGHT SWITCHES ARE TO HAVE HEAVY DUTY MOUNTING STRAP, SIDE WIRING SCREWS, ONE PIECE NYLON TOGGLE AND BE 15A, 125V RATED.
4. PROVIDE BRUSHED STAINLESS STEEL COVERPLATES FOR ALL WIRING DEVICES. USE SHEET STEEL UTILITY BOX COVER FOR ALL WIRING DEVICES INSTALLED IN SURFACE MOUNTED UTILITY BOXES.
5. ALL OUTLET BOXES INSTALLED IN STEEL STUD WALLS ARE TO HAVE AN OUTLET BOX SUPPORT INSTALLED ON THE NON-STEUD SIDE OF THE BOX.
6. WHEREVER POSSIBLE, MOUNT EQUIPMENT IN A STRAIGHT LINE AT A UNIFORM HEIGHT, COORDINATED WITH OTHER EQUIPMENT AND MATERIALS.
 - RECEPTACLES: 450mm ABOVE FLOOR OR AS INDICATED.
 - SWITCHES: 1150mm ABOVE FLOOR OR AS INDICATED.

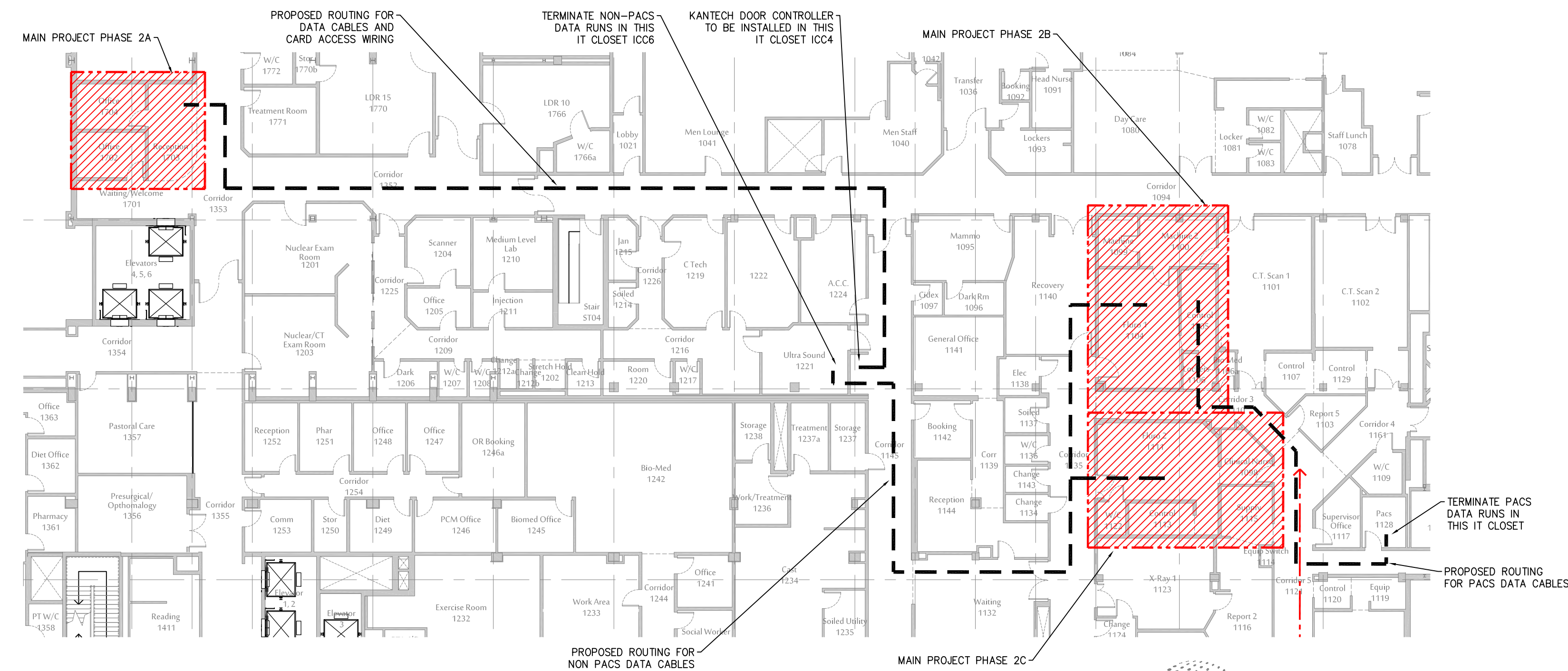
1. CONFIRM ALL COMMUNICATION WIRING REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REQUIREMENTS SHOWN BELOW ARE FOR TENDER PURPOSES ONLY. ALL WIRING TO COMPLY WITH NORTHERN HEALTH IT STANDARDS, AVAILABLE FROM THE ENGINEER.
2. FOR DATA, INSTALL FOUR TWISTED PAIR, 24 GAUGE, F/TE RATED IN PLENUM AREAS, SOLID COPPER WIRE, CATEGORY 6 INSULATED & UNSHIELDED, FROM THE RACK MOUNTED PATCH PANEL TO THE MODULAR JACK AT EACH OUTLET. CABLE IS TO BE BLUE JACKETED.
3. FOR TELEPHONE, INSTALL FOUR TWISTED PAIR, 24 GAUGE, F/TE RATED IN PLENUM AREAS, SOLID COPPER WIRE, CATEGORY 6 INSULATED & UNSHIELDED, FROM THE RACK MOUNTED PATCH PANEL TO THE MODULAR JACK AT EACH OUTLET. CABLE IS TO BE WHITE JACKETED.
4. ALL DATA AND TELEPHONE CABLES ARE TO TERMINATE IN RESPECTIVE PATCH PANELS. PATCH PANELS ARE TO BE FACTORY ASSEMBLED 24 PORT, 19" WIDE WITH, 110 STYLE IDC CONNECTORS. PROVIDE PATCH PANELS TO ACCOMMODATE ALL COMMUNICATION OUTLETS WITH 10% SPARE CAPACITY.
5. ALL DATA CABLES ARE TO BE TESTED FOR CONTINUITY, CROSSTALK AND ATTENUATION AND BE WITHIN LIMITS SPECIFIED IN EIA/TIA BULLETIN TSB67. SUBMIT TEST RESULTS TO ENGINEER FOR REVIEW.
6. HORIZONTAL RUNS OF COMMUNICATION CABLE ARE TO BE SUPPORTED USING CAT-5 J HOOKS CONNECTED TO THE BUILDING STRUCTURE OR T-BAR CEILING SYSTEM. CADDY CABLE-CAT OR APPROVED EQUAL. USE VELCRO TY-RAPS TO NEATLY BUNDLE CABLES.
7. PROVIDE LABELING OF OUTLETS, CABLING AND PATCH PANELS. CONFIRM METHODS WITH THE ENGINEER PRIOR TO INSTALLATION. REFER TO NHA IT STANDARDS WHEN CONFIRMING LABELING TECHNIQUES.
8. PROVIDE 1 METER SPARE CABLE AT WORKSTATION OUTLET AND 3 METERS SPARE CABLE AT COMMUNICATION BACKBOARD, FOR ALL CABLES.
9. WHERE OUTLETS ARE INSTALLED BELOW T-BAR CEILINGS, PROVIDE 1" EMT CONDUIT FROM OUTLET TO 6" ABOVE T-BAR CEILING.

1. PREPARE MANUALS COVERING THE OPERATING AND MAINTENANCE OF ALL ELECTRICAL EQUIPMENT INSTALLED UNDER THIS CONTRACT.
2. PROVIDE A DRAFT COPY TO THE ENGINEER FOR APPROVAL AT LEAST 15 DAYS BEFORE FINAL INSPECTION. PROVIDE 1 FINAL APPROVED COPY IN SUITABLY LABELED, COLOUR CODED, TAB INDEXED 3-RING, LOOSE LEAF HARD COVERED BINDER, AND ELECTRONIC COPY IN SINGLE PDF FILE FORMAT.
3. THE MANUALS ARE TO CONTAIN THE FOLLOWING INFORMATION, ORGANIZED FOR EASY INTERPRETATION AND REFERENCE BY OPERATING PERSONNEL:
 - GENERAL DESCRIPTION OF EACH SYSTEM STATING FUNCTION OF EQUIPMENT.
 - COPIES OF APPROVED SHOP DRAWINGS AND AS-BUILT DRAWINGS.
 - MANUFACTURERS MAINTENANCE BROCHURES FOR EACH ITEM, INCLUDING WIRING DIAGRAMS AND PARTS LISTS. CLEARLY INDICATE THE SPECIFIC MODEL, OPTIONS, FEATURES AND MODE OF CONTROL ON ALL SHEETS.
 - NORMAL MAINTENANCE SCHEDULE AND TROUBLE SHOOTING INFORMATION.
 - COPIES OF THE ULC FIRE STOPPING INSTALLATION SHEETS FOR EACH DIFFERENT METHOD USED.
 - DESCRIPTION OF AUTOMATIC CONTROL SYSTEMS, INSTRUCTIONS COVERING THE OPERATION AND MAINTENANCE OF SYSTEMS AND SCHEMATIC DIAGRAMS INDICATING FINAL CONTROL SETTINGS.
 - LETTER FROM CONTRACTOR STATING THAT ALL LABOUR AND EQUIPMENT INSTALLED UNDER THE CONTRACT WILL BE WARRANTED FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. IF ANY EQUIPMENT THAT FAILS DURING THIS TIME WILL BE REPAIRED/ REPLACED AT NO COST TO THE OWNER.
 - INCLUDE CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER.

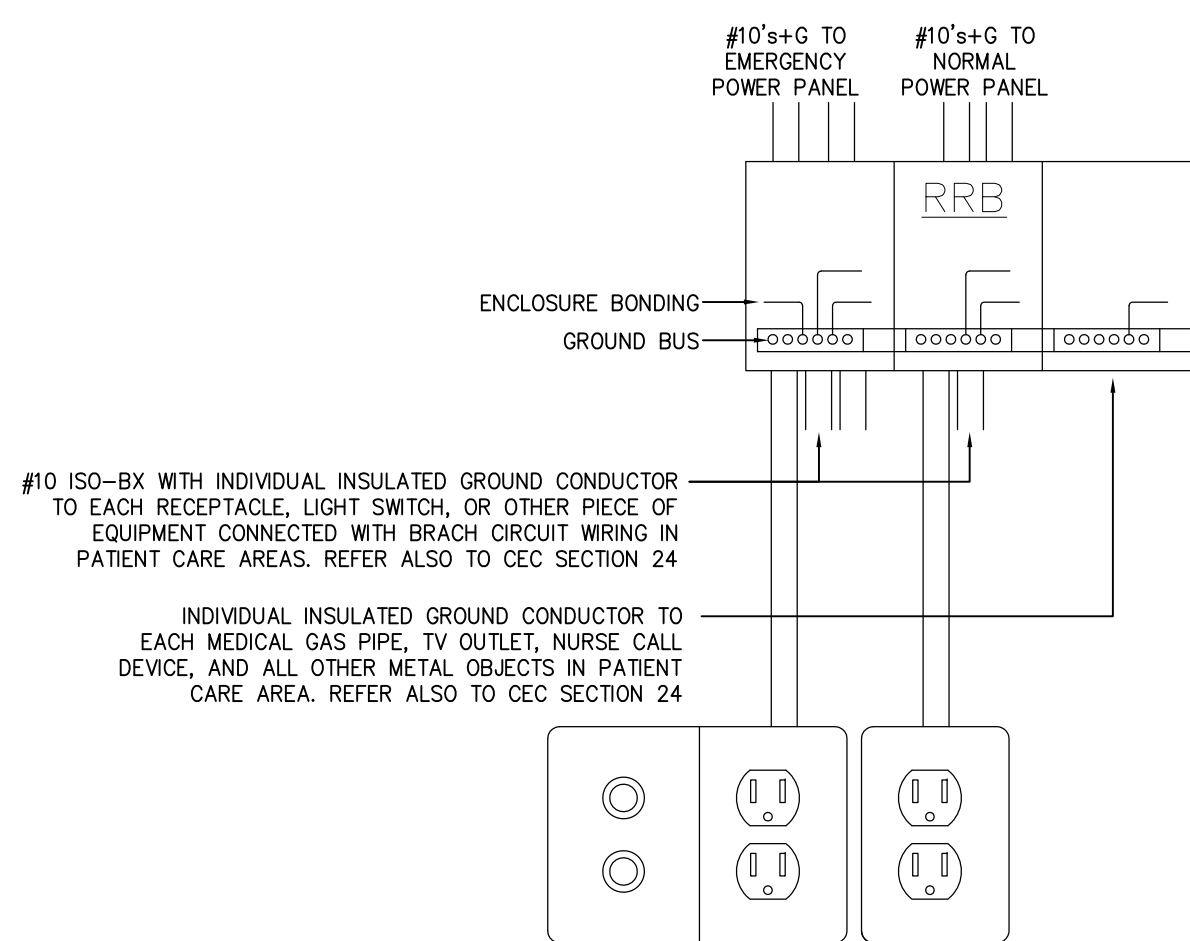
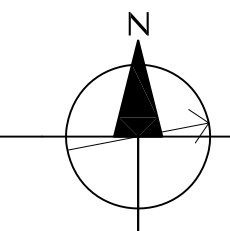
1. PROVIDE ALL MATERIALS AND LABOUR TO FURNISH A COMPLETE AND FULLY OPERATIONAL FIRE ALARM SYSTEM TO CARRY OUT ALL FUNCTIONS AS DESCRIBED BELOW AND ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.
2. PROVIDE AND VERIFY CHANGES AND NEW DEVICES FOR THE FIRE ALARM SYSTEM IN ACCORDANCE WITH CAN/ULC S537. AN INDEPENDENT THIRD PARTY VERIFICATION AGENT OR FACTORY TECHNICIAN MAY BE USED.
3. PROVIDE A COMPLETE WIRING SYSTEM FOR ALL DEVICES SHOWN.
4. INSTALL AND WIRE ALL EQUIPMENT AND ACCESSORIES AS DESCRIBED HEREIN AND MUST COMPLY WITH CAN/ULC S524, BC BUILDING CODE AND CANADIAN ELECTRICAL CODE.
5. ALL WIRING IS TO BE 18 AWG JACKETED CABLE, 105°C, RED JACKET IN EMT CONDUIT, OR ARMoured CABLE, CABLE TO BE RED AWG26 SECURE FIRE ALARM CABLE.
6. PROVIDE THE SERVICES OF AN AUTHORIZED SIMPLEX FIRE ALARM TECHNICIAN TO PROGRAM AND WIRE THE NEW OR RELOCATED DEVICES. FIRE ALARM TECHNICIAN TO REPROGRAM SYSTEM WITH NEW ROOM DESCRIPTIONS AND VOICE MESSAGES, AND UPDATE THE GRAPHICS IN THE FIRE ALARM COMPUTER SYSTEM. AUTOCAD FLOOR PLANS WILL BE PROVIDED BY THE ENGINEER IF REQUIRED.
7. FIRE ALARM TECHNICIAN TO REPROGRAM VOICE MESSAGES FOR THE NURSE CALL CODE BLUE AND CODE WHITE CALLS.
8. PROVIDE COMPLETE VERIFICATION REPORT, INCLUDING SCREEN SHOTS OF UPDATED GRAPHICS.

1. PROVIDE ALL MATERIALS AND LABOUR TO FURNISH A COMPLETE AND FULLY OPERATIONAL NURSE CALL SYSTEM TO CARRY OUT ALL FUNCTIONS AS DESCRIBED BELOW AND ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.
2. PROVIDE A COMPLETE WIRING SYSTEM FOR ALL DEVICES SHOWN.
3. ALL WIRING IS TO BE CATSE CABLE, JACKET COLOUR TO MATCH EXISTING.
4. PROVIDE THE SERVICES OF AN AUTHORIZED RAULAND NURSE CALL TECHNICIAN TO PROGRAM AND VERIFY THE NEW OR RELOCATED DEVICES. RAULAND TECHNICIAN TO REPROGRAM SYSTEM WITH NEW ROOM DESCRIPTIONS AND COORDINATE WITH FIRE ALARM TECHNICIAN FOR UPDATED VOICE MESSAGE FOR CODE BLUE AND CODE WHITE CALLS.
5. PROVIDE COMPLETE VERIFICATION REPORT.

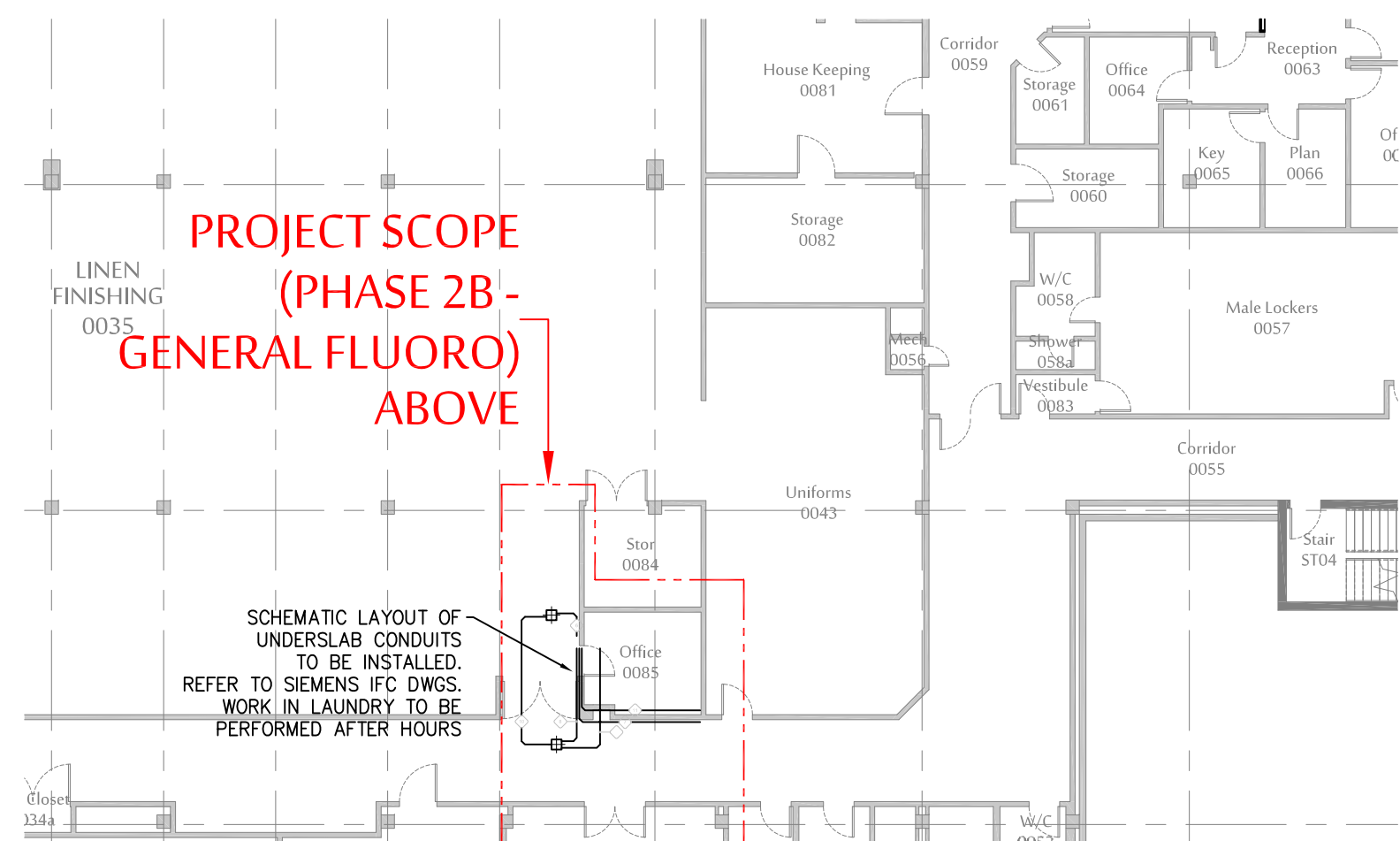
1. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE, SUPPORTS, BRACKETS AND SIMILAR EQUIPMENT REQUIRED TO FIRMLY ATTACH ALL EQUIPMENT PROVIDED TO THE LOCATIONS SHOWN ON THE DRAWINGS. THE USE OF TY-WRAPS IS NOT ACCEPTABLE.
2. WHEREVER POSSIBLE THE CONTRACTOR SHALL UTILIZE MANUFACTURER APPROVED AND SUPPLIED MOUNTING HARDWARE. WHERE CUSTOM FABRICATED HARDWARE IS PROVIDED BY THE CONTRACTOR, HE SHALL REVIEW THE PROPOSED INSTALLATION METHOD WITH THE ARCHITECT OR HIS REPRESENTATIVE PRIOR TO INSTALLATION, AND SHALL PROVIDE SHOP DRAWINGS WHERE REQUIRED.
3. ALL MOUNTING HARDWARE SHALL SEISMICALLY RESTRAIN THE ELECTRICAL EQUIPMENT AND PREVENT INJURY TO PERSONS IN AND AROUND THE BUILDING DURING AN EARTHQUAKE.
4. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION, UPON REQUEST, FROM THE MANUFACTURER OR A REGISTERED PROFESSIONAL ENGINEER INDICATING THAT THE PROPOSED SEISMIC RESTRAINTS COMPLY FULLY WITH THE BC BUILDING CODE, ACCEPTED PRACTICE AND SOUND ENGINEERING PRINCIPLES.



SCALE : 1 = 200



1. ALL GROUND WIRES TO BE GREEN INSULATED #10 RW90, INSTALLED IN CONDUIT WITH BRANCH CIRCUIT WIRING, OR RUN WITHIN 10/3 ISO-BX. ALL ISO-BX TO BE #10 AWG, WITH #10 AWG INSULATED GREEN GROUND CONDUCTOR. NEXANS ISO-BX XLPE OR EQUAL. ROOM REFERENCE BOXES TO BE BONDED TOGETHER WITH GREEN #6 COPPER BOND, WITH HOME RUN BACK TO PANEL.
2. CONNECT ALL EQUIPMENT PATIENT CARE AREA TO REFERENCE GROUND BOXES. PATIENT CARE AREA DEFINED UNDER CEC RULE AS A ZONE WITHIN 1.5 M OF THE BED WITHIN 2.3 M OF THE FLOOR. PROVIDE ONE REFERENCE GROUND BOX IN GENERAL FLUOROSCOPY ROOM AND ONE IN THE RECOVERY ROOM.
3. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRAL. NO 3-WIRE CIRCUITS PERMITTED.
4. A GREEN INSULATED BONDING CONDUCTOR (MINIMUM #10 AWG) TO BE INSTALLED IN EACH CONDUIT OR ISO-BX CABLE.
5. ALL PATIENT ROOM REFERENCE BOXES TO BE BONDED TOGETHER WITH #6 AWG COPPER BONDING CONDUCTOR, WITH HOME RUN BACK TO PANEL.
6. ALL PATIENT AREA RECEPTACLES TO BE TESTED TO CSA Z32 STANDARDS. PROVIDE REPORT TO ENGINEER.



SCALE : 1 = 200