

PROJECT TITLE

# CONNECT FIRST - RED DEER INTERIOR RENO

PROJECT INFORMATION

## LOCATION

### PROJECT ADDRESS

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

### LEGAL ADDRESS

PLAN 0727740; BLOCK14; LOT 9B

## SCOPE OF WORK

Full interior renovation of an existing unfinished vacant lease space including Architectural, Mechanical, and Electrical work.

PROJECT TEAM

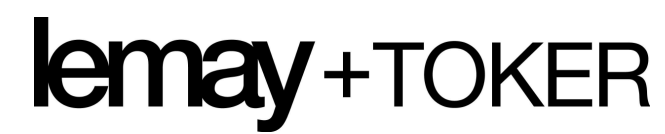
## CLIENT



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Calgary, AB  
T1Y 6G2

www.connectfirstcu.com  
(403) 736 - 4000

## PRIME CONSULTANT



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T2R 1L5

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(403) 245 - 3089

## MECHANICAL



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T2R 1M1

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(403) 252-2333

## ELECTRICAL



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1015 4th Street SW  
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T2R 1J4

Website  
Phone Number

Lemay + Toker is a trade name owned and used by Toker + Associates Architecture Industrial Design Ltd.

## GENERAL

A-000 COVER SHEET  
A-001 GENERAL NOTES  
A-002 GENERAL NOTES  
A-003 CODE REVIEW

## ARCHITECTURE

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A-201 INTERIOR ELEVATIONS  
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A-610 DOOR / HARDWARE SCHEDULES  
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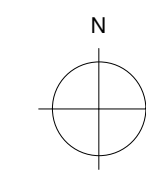
## MECHANICAL

M0.01 MECHANICAL LEGENDS, EQUIPMENT SCHEDULES AND DRAWING LIST  
M2.01 PLUMBING AND FIRE PROTECTION PLAN  
M3.01 MECHANICAL HVAC PLAN  
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## ELECTRICAL

E000 DRAWING LIST AND SYMBOL SCHEDULE  
E101 LEVEL 1 - LIGHTING PLAN  
E102 LEVEL 1 - POWER PLAN  
E103 ELECTRICAL DETAILS  
E104 ELECTRICAL SPECIFICATIONS

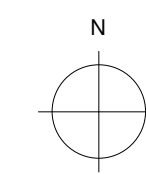
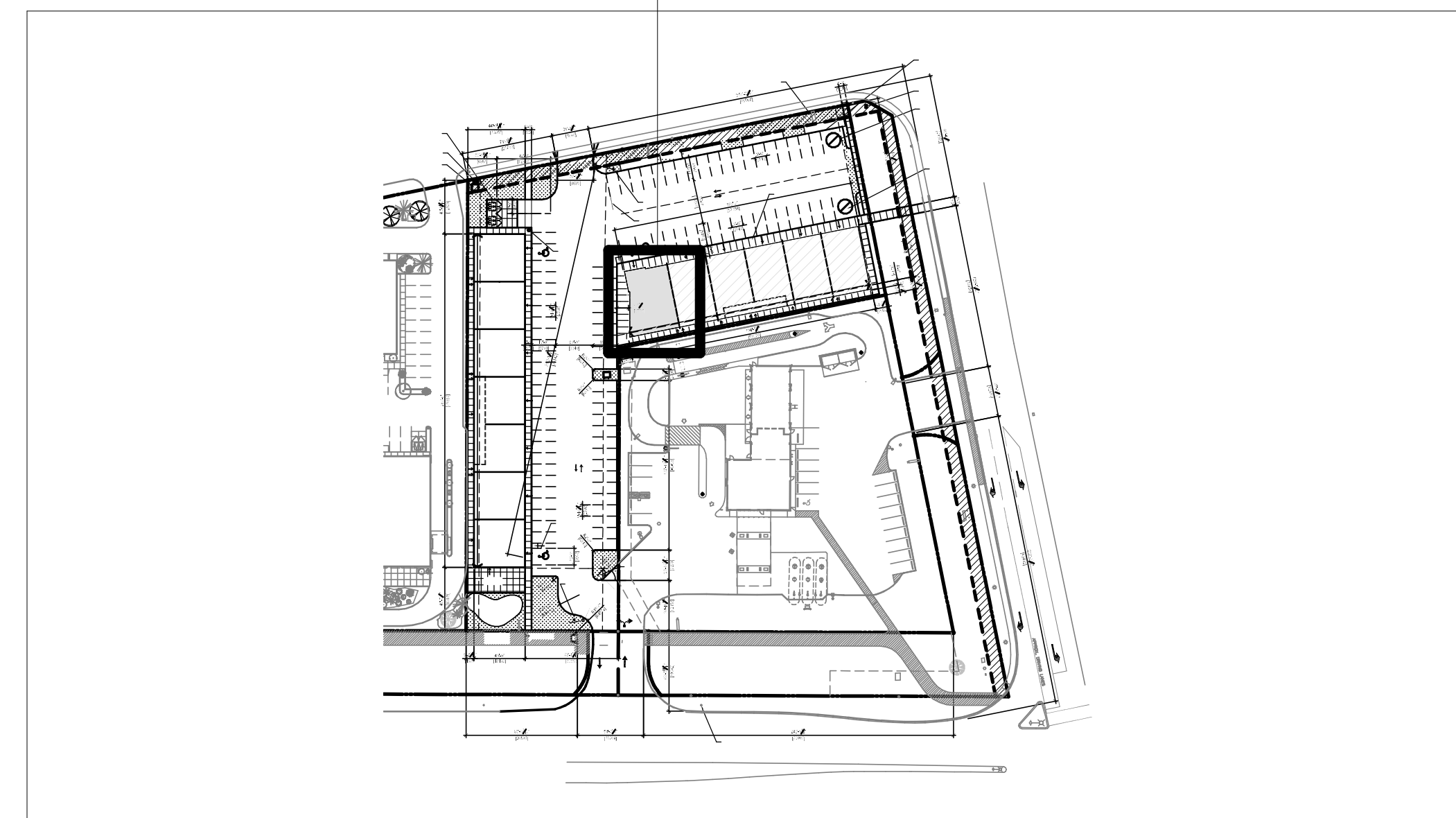
PROJECT LOCATION



LOCATION PLAN

NTS

PROJECT LOCATION



KEY PLAN

NTS

SET NO.

4

ISSUED:

ISSUED FOR TENDER  
2019-07-11

PROJECT TITLE:

CONNECT FIRST - RED DEER  
INTERIOR RENO

PROJECT NUMBER:

19-02

## GENERAL NOTES:

### DEFINITIONS:

- THE WORD "CONTRACTOR" REFERS EQUALLY TO A GENERAL CONTRACTOR OR A CONSTRUCTION MANAGER.
- THE WORDS "CONSULTANT" OR "DESIGNER" REFER EQUALLY TO THE ARCHITECT OR INTERIOR DESIGNER WHO PREPARED THE CONTRACT DOCUMENTS.
- THE WORD "OWNER" REFERS TO THE CLIENT WHO THE DOCUMENTS ARE PREPARED FOR.
- THE WORDING "CODE" REFERS TO MEETING OR EXCEEDING THE REQUIREMENTS OF THE 2014 ALBERTA BUILDING CODE, MUNICIPAL BYLAWS, CODES, ORDINANCES, GUIDELINES, AND THE AUTHORITIES HAVING JURISDICTION.
- NOTES ARE WRITTEN TO THE CONTRACTOR.

### NOTES:

- UNDERTAKE AND EXECUTE WORK TO MEET OR EXCEED REQUIREMENTS OF THE 2014 ALBERTA BUILDING CODE, MUNICIPAL BYLAWS, CODES, ORDINANCES, GUIDELINES, AND AUTHORITIES HAVING JURISDICTION.
- GUARANTEE WORK FOR A MINIMUM PERIOD OF ONE (1) YEAR, UNO.
- THIS CONTRACT IS FOR A COMPLETE INTERIOR CONSTRUCTION, INCLUDING REQUIRED STRUCTURAL, MECHANICAL AND ELECTRICAL WORK, AND COORDINATION OF TRADES. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL.
- OBTAIN PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. AFTER COMPLETION OF WORK, FORWARD A COPY OF THE OCCUPANCY INSPECTION COMPLETE WITH REQUIRED VERIFICATIONS AND CERTIFICATES TO THE CONSULTANT.
- VISIT SITE AND CONFIRM EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING A BID. INCLUDE COSTS IN CONTRACT FOR WORK NECESSARY FOR A COMPLETE INSTALLATION. CONTRACT REVISIONS AND / OR EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS.
- REPORT ERRORS, OMISSIONS OR DISCREPANCIES IN DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF THE CONSULTANT IMMEDIATELY.
- OBTAIN AND COMPLY WITH THE RULES & REGULATIONS FOR CONSTRUCTION WITHIN THE BUILDING AS SET OUT BY THE OWNER / LANDLORD AND TO MEET TYPICAL BUILDING STANDARDS.
- OBTAIN AND COMPLY WITH THE RULES & REGULATIONS FOR BUILDING ACCESS, PARKING AND LOCAL BUSINESS LICENSING, AND INCLUDE SUCH COSTS IN CONTRACT.
- COORDINATE WORK WITH BUILDING MANAGER. ANY WORK WHICH MAY DISRUPT OTHER TENANT'S ACTIVITY SHALL BE DISCUSSED WITH BUILDING MANAGER PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR TO ENSURE CONTAMINANTS ARE NOT SPREAD TO ADJACENT TENANTS OR PUBLIC SPACES.
- PROVIDE PROTECTIVE HOARDING OR PROTECTIVE MEASURES AT DEMOLITION & NEW CONSTRUCTION TO ENSURE NO CONSTRUCTION DUST OR DEBRIS ENTERS OTHER TENANTS WORKING AREAS.
- MAKE SURE TO CLEAN AND MAINTAIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE IT IS FREE FROM ACCUMULATION OF WASTE AND DEBRIS. CLEAN AND DISPOSE OF WASTE AND DEBRIS ON A DAILY BASIS. CONFIRM WITH BUILDING MANAGER THE APPROVED METHOD OF DEBRIS REMOVAL AND POSSIBLE LOCATION OF GARBAGE BINS.
- MAKE GOOD TO AS NEW CONDITION, AND PROTECT ALL EXISTING CONSTRUCTION AND FINISHES WHICH ARE TO REMAIN. REPAIR AND MAKE GOOD, TO AS NEW CONDITION ALL SURFACES EFFECTED BY DEMOLITION OR NEW CONSTRUCTION.
- SUPPLY, INSTALL AND TAPE ALL GYPSUM BOARD IN ACCORDANCE WITH A.W.C.C. "SPECIFICATION STANDARDS MANUAL". TAPE, FILL, SAND, SMOOTH AND LEVEL ALL JOINTS, EDGES, CORNERS ETC. PROVIDE METAL CORNER BEADS AND "J" MOLDS AT ALL CORNERS AND ENDS OF GYPSUM BOARD RESPECTIVELY. FINISH GYPSUM BOARD TO MEET AWCI LEVEL4 STANDARDS.
- PREPARE SURFACES AND COMPLETE PAINTING IN ACCORDANCE WITH THE M.P.I. PAINTING SPECIFICATION MANUAL, 2015 VERSION, "PREMIUM GRADE STANDARDS".
- COMPLETE INSTALLATION OF VINYL WALL COVERING IN ACCORDANCE WITH THE M.P.I. PAINTING SPECIFICATION MANUAL, 2015 VERSION, "PREMIUM GRADE STANDARDS" IN ACCORDANCE WITH CHAPTER 8, OF THE C.P.C.A. MANUAL. PREPARE GYPSUM SURFACES TO RECEIVE VINYL WALL COVERING TO A LEVEL 5 FINISH (SKIM COAT) TO HIDE IMPERFECTIONS FROM TELEGRAPHING THROUGH VINYL WALL COVERING.
- X-RAY CONCRETE SLAB PRIOR TO ANY CORING, CUTTING OR DRILLING. X-RAY, CORING, CUTTING OR DRILLING TO BE COMPLETED AFTER REGULAR BUSINESS HOURS (IF APPLICABLE) UPON REVIEW OF BUILDING MANAGER. COORDINATE AND REVIEW CORING WITH STRUCTURAL ENGINEER.
- OPENINGS FOR NON COMBUSTIBLE PIPES AND DUCTS SHALL BE FIRE STOPPED TO PREVENT THE PASSAGE OF SMOKE AND FLAME. CONTRACTORS SHALL BE RESPONSIBLE FOR ENSURING THAT WHERE WORK PASSES THROUGH A FIRE SEPARATION, THE OPENING SHALL BE PLUGGED WITH UL LABELED AND APPROVED FIRESTOPPING SEALANT, INSULATION TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATIONS. EXISTING FIRE SEPARATIONS MUST BE MAINTAINED AS SUCH, AND NEW, EXISTING OR ABANDONED HOLES OR CUTTINGS MUST BE SEALED TO RETAIN THE SEPARATION. APPLY FIRE STOPPING MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. ACCEPTED AND UL OR WH APPROVED TESTED ASSEMBLIES, AND APPROVED DETAILS.
- FILL HOLES IN FLOOR SLAB DUE TO MECHANICAL AND ELECTRICAL ALTERATIONS WITH CONCRETE FILL SECURED TO THE EXISTING SLAB. LEVEL AND PREPARE CONCRETE FILL TO SUIT. THE INSTALLATION OF NEW FLOOR FINISHES. ENSURE THE INTEGRITY OF THE FIRE SEPARATION IS MAINTAINED.
- INSTALL PLUMBING FIXTURES AND WASHROOM ACCESSORIES (WHERE APPLICABLE) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, THE "CODE" AND THE ALBERTA BARRIER FREE DESIGN GUIDELINES.
- INSTALL NEW MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- WHERE SPECIFIC MATERIALS ARE NOT SPECIFIED, PROVIDE SAMPLES OF NEW MATERIALS REQUIRED FOR CONSULTANTS REVIEW AND ACCEPTANCE.
- DO NOT ALTER OR REMOVE ITEMS WHICH WILL AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, UNO IN THE CONTRACT DOCUMENTS.
- THE FURNITURE SUPPLY IS NOT IN THE CONTRACT, UNO. CO-ORDINATE THE DELIVERY AND MOVING OF FURNITURE.
- MATERIAL TO BE AS SPECIFIED OR DESIGNER REVIEWED ALTERNATES. PROPOSED ALTERNATES ARE TO BE INDICATED IN PRICING AND SUBMITTED TO DESIGNED FOR REVIEW AND ACCEPTANCE PRIOR TO TENDER CLOSING AND ORDERING.
- COORDINATE FINAL INSPECTION DATE WITH THE CONSULTANT PRIOR TO CLIENT MOVE IN.
- COMPLETE DEFICIENCIES WITHIN 30 DAYS AFTER SUBSTANTIAL COMPLETION.
- COORDINATE WORK OF TRADES AND SUBCONTRACTORS TO AVOID INTERFERENCE AND EXPEDITE PROGRESS. NOTIFY TRADES AND SUBCONTRACTORS OF READINESS FOR THEIR WORK, TO ALLOW ADEQUATE TIME FOR INSTALLATION WITHOUT DELAYING COMPLETION OF THE PROJECT.
- AT BARRIER FREE WASHROOMS, UNDERTAKE AND EXECUTE WORK TO MEET OR EXCEED THE REQUIREMENTS OF THE 2008 ALBERTA BARRIER-FREE DESIGN GUIDELINES, MUNICIPAL BYLAWS, CODES, ORDINANCES, GUIDELINES, AND THE AUTHORITIES HAVING JURISDICTION.
- WHERE POSSIBLE, USE SYSTEMS, PRODUCTS AND MATERIALS WITH HIGH PERCENTAGE OF POST CONSUMER AND POST INDUSTRIAL RECYCLED CONTENT.

## GENERAL NOTES CONTINUED:

### CONSTRUCTION SCHEDULE:

- WITHIN 5 DAYS OF AWARD OF CONTRACT, PROVIDE TO THE CONSULTANT A PROJECT SCHEDULE, SHOWING MILESTONES DATES FOR THE FOLLOWING:
  - SHOP DRAWING AND SAMPLES SUBMITTALS, DELIVERY SCHEDULE FOR KEY BUILDING COMPONENTS OR FABRICATIONS ESSENTIAL TO THE PROGRESS OF THE WORK.

### PROGRESS MEETINGS:

- SCHEDULE AND ADMINISTER PROJECT PROGRESS MEETINGS THROUGHOUT THE WORK ON A WEEKLY BASIS AS REQUIRED TO ENSURE EFFICIENT PROGRESS OF THE WORK. RECORD THE MINUTES AND DISTRIBUTE COPIES TO THE PARTICIPANTS, AFFECTED PARTIES NOT IN ATTENDANCE, AND THE OWNER.
- PROVIDE PHYSICAL SPACE AND MAKE ARRANGEMENTS FOR PROGRESS MEETINGS.

### RECORD DRAWINGS:

- KEEP ONE (1) FULL SET OF RECORD DRAWINGS ON SITE AND MARK UP CHANGES IN THE WORK ON THESE DRAWINGS. AT SUBSTANTIAL COMPLETION SUBMIT ONE (1) PAPER COPY AND ONE (1) SCANNED IN PDF OF ALL CONTENTS OF THE RECORD SET OF DRAWINGS IN PDF FORMAT TO THE CONSULTANT. PDF TO HAVE A TABLE OF CONTENTS AND TO BE BOOK MARKED.

### SHOP DRAWINGS & SUBMITTALS:

- SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR REVIEW PRIOR TO FABRICATION. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK, MILLWORK HARDWARE, DOORS & DOOR FRAMES, DOOR HARDWARE, EQUIPMENT, APPLIANCES, GRAPHICS & NEW PRODUCTS REQUIRED TO COMPLETE THE WORK.
- SUBMIT THREE (3) ACTUAL SAMPLES OF EACH FINISH IN THE PROJECT, IN A SIZE AGREED UPON WITH THE CONSULTANT. FOR ALL NEW BROADLOOM CARPET CONTRACTOR TO SUPPLY DETAILED CARPET SEAMING DIAGRAMS FOR CONSULTANT'S REVIEW AND ACCEPTANCE.
- PROVIDE THREE SAMPLES OF ALL NEW MATERIALS & FINISHES (INCLUDING THOSE SPECIFIED TO MATCH EXISTING) TO THE CONSULTANT FOR REVIEW.
- DELIVER SAMPLES AND OTHER SUBMITTALS TO THE CONSULTANT'S BUSINESS ADDRESS. SUBMIT WITH A REASONABLE PROMPTNESS AND IN AN ORDERLY SEQUENCE SO AS NOT TO CAUSE DELAY TO THE WORK.
- DO NOT PROCEED WITH FABRICATION, MANUFACTURE, ORDERING OR CONSTRUCTION PRIOR TO REVIEW AND ACCEPTANCE BY THE CONSULTANT. DO NOT PROCEED WITH THE WORK AFFECTED BY THE SUBMITTAL UNTIL REVIEW IS COMPLETE.
- INDICATE MATERIALS, METHODS OF CONSTRUCTION AND ATTACHMENT OR ANCHORAGE, CONNECTIONS, EXPLANATORY NOTES AND OTHER INFORMATION NECESSARY FOR REVIEW.
- THE WORK OF THIS PROJECT AS INDICATED ON THE DRAWING IS IN METRIC OR IMPERIAL UNITS. ALL SHOP DRAWINGS TO BE SUBMITTED IN UNITS TO MATCH THE UNITS USED IN THE DRAWINGS.
- ADJUSTMENTS MADE ON SHOP DRAWINGS ARE NOT INTENDED TO CHANGE THE CONTRACT PRICE. IF THE ADJUSTMENTS AFFECT THE CONTRACT PRICE, NOTIFY THE CONSULTANT IN WRITING, PRIOR TO PROCEEDING.
- INDICATE MATERIALS, METHODS OF CONSTRUCTION AND ATTACHMENT OR ANCHORAGE, CONNECTIONS, EXPLANATORY NOTES AND OTHER INFORMATION NECESSARY FOR REVIEW.
- THE WORK OF THIS PROJECT AS INDICATED ON THE DRAWING IS IN METRIC OR IMPERIAL UNITS. ALL SHOP DRAWINGS TO BE SUBMITTED IN UNITS TO MATCH THE UNITS USED IN THE DRAWINGS.
- ADJUSTMENTS MADE ON SHOP DRAWINGS ARE NOT INTENDED TO CHANGE THE CONTRACT PRICE. IF THE ADJUSTMENTS AFFECT THE CONTRACT PRICE, NOTIFY THE CONSULTANT IN WRITING, PRIOR TO PROCEEDING.
- PREPARE IMAGES AND/OR GRAPHICS; THE CONSULTANT IS NOT RESPONSIBLE FOR PROVIDING ORIGINAL DESIGN FILE.
- FULL SIZE SAMPLE OF IMAGES AND/OR GRAPHICS MUST BE SUBMITTED TO THE CONSULTANT AND OWNER FOR REVIEW AND ACCEPTANCE.
- IMAGES AND/OR GRAPHICS MUST BE REVIEWED AND ACCEPTED BY THE OWNER PRIOR TO FABRICATION AND INSTALLATION.

### MOCK-UPS:

- PROVIDE MOCK-UPS FOR ITEMS AS REQUESTED IN THE INDIVIDUAL SPECIFICATION SECTIONS.
- CONSTRUCT SAMPLE AREAS AT LOCATION DESIGNATED BY THE DESIGNER.
- SAMPLE INSTALLATIONS MUST INDICATE MATERIALS, PATTERNS, JOINTS, COLOURS, SHADES, INSTALLATION METHODS AND LEVEL OF WORKMANSHIP.
- ADJUST SAMPLE INSTALLATIONS AS REQUIRED TO CONFORM WITH THE REFERENCED STANDARDS, THE DRAWINGS, AND THIS SPECIFICATION, AND TO GAIN ACCEPTANCE BY THE DESIGNER, AT NO ADDITIONAL COST TO THE OWNER.
- ACCEPTED SAMPLE INSTALLATIONS WILL BECOME THE STANDARD FOR THE PROJECT AND MAY BE INCORPORATED INTO THE WORK. ANY WORK WHICH DOES NOT MATCH THE ACCEPTED MOCK-UPS WILL BE REJECTED AND REPLACED TO MATCH ACCEPTED MOCK-UPS.

### LIST OF MOCK-UPS REQUIRED, CONFIRM WITH CONSULTANT:

- POLISHED CONCRETE FLOOR.

### FINAL CLEAN:

- ADJUST, TOUCH-UP AND REPAIR ALL OPERATING DOORS, HARDWARE AND EQUIPMENT. ENSURE ALL SHELVES ARE LEVEL. WASH AND DRY ALL FLOORS AND CLEAN AND POLISH ALL GLASS, HARDWARE, DOORS & EQUIPMENT.
- REMOVE STAINS, SPOTS, MARKS AND DIRT FROM WALLS, FLOORS AND CEILING SURFACES.
- VACUUM CLEAN AND DUST INTERIOR SURFACES, INCLUDING BEHIND GRILLES, LOUVERS AND SCREENS.
- WAX, SEAL, VACUUM OR OTHERWISE PREPARE FLOOR SURFACES AS REQUIRED BY MANUFACTURER AND OUTLINED IN SPECIFICATIONS.

### OPERATION AND MAINTENANCE MANUALS:

- AT SUBSTANTIAL PERFORMANCE OF THE WORK, CONTRACTOR TO SUBMIT TO THE CONSULTANT AN OPERATIONS AND MAINTENANCE MANUAL.
  - TWO (2) PAPER COPIES, IN A 3-RING BINDER, WITH A TABLE OF CONTENTS, AND TWO (2) SCANNED IN PDF OF ALL CONTENTS OF THE BINDER IN PDF FORMAT. PDFS TO HAVE A TABLE OF CONTENTS AND TO BE BOOK MARKED, CONTAINING THE FOLLOWING:
    - FOR ALL NEW MATERIALS AND EQUIPMENT: MANUFACTURER'S WRITTEN MAINTENANCE GUIDES, CARE & CLEANING INSTRUCTIONS, PARTS LISTS, A LIST OF ALL INSTALLED HARDWARE WITH A SCHEDULE, A LIST OF FINISH MATERIALS, AND A COPY OF ALL GUARANTEES AND WARRANTIES ISSUED.
- OWNER'S STOCK:
  - PROVIDE EXTRA MATERIAL FOR MAINTENANCE PURPOSES, INCLUDING THE FOLLOWING:
    - PAINT (1 GAL. EACH TYPE AND PROVIDE LIST WITH ALL MANUFACTURERS NAMES & FORMULAS FOR EACH FLOOR);
    - WALL COVERING, (2% TO FULL FACTORY ROLL WIDTH, FOR EACH TYPE)
    - CARPET (2% TO THE CLOSEST FULL CARTON FOR EACH TYPE)
    - RESILIENT SHEET FLOORING (2% ENSURE FULL FACTORY ROLL WIDTH),
    - TILE, FLOOR & WALL (2% TO CLOSEST CARTON FOR EACH TYPE)
    - CEILING TILE (2% TO THE CLOSEST FULL CARTON )

### SEPERATE PRICING:

PROVIDE SEPERATE PRICE FOR SUPPLY AND INSTALLATION OF 3M THINSULATE WINDOW FILM ON ALL EXTERIOR WINDOWS.

## DEMOLITION GENERAL NOTES:

- VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- CHECK DEMOLITION STOCK FOR REUSABLE ITEMS PRIOR TO SUBMITTING A BID.
- ITEMS IN DEMOLITION STOCK WHICH ARE NOT TO BE REINSTALLED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER. THE OWNER RESERVES THE RIGHT TO RETAIN DEMOLISHED ITEMS OR REQUEST THE CONTRACTOR TO DISPOSE OF THESE ITEMS.
- REUSED ITEMS FROM DEMOLITION STOCK TO APPEAR IN AS NEW CONDITION UPON COMPLETION OF CONSTRUCTION. MAKE GOOD ITEMS AS REQUIRED.
- REMOVE EXISTING FLOOR COVERINGS AND THERE ADHESIVES, LEAVING A CLEAN EXPOSED CONCRETE SUBFLOOR, IN THE AREA OF CONTRACT, UNLESS NOTED OTHERWISE. MAKE GOOD FLOOR READY TO RECEIVE NEW FLOOR COVERINGS.
- REMOVE WALL COVERINGS IN THE AREA OF CONTRACT, UNLESS NOTED OTHERWISE. MAKE GOOD ALL WALLS READY TO RECEIVE NEW WALL FINISHES.
- REMOVE SUSPENDED GYPSUM BOARD CEILINGS AND BULKHEADS, IN THE AREA OF CONTRACT UNLESS NOTED OTHERWISE. MAKE GOOD ALL CEILINGS AFFECTED BY DEMOLITION.
- REMOVE WALLS IN CEILING PLENUM AS REQUIRED, AT LOCATIONS WERE WALLS ARE NOTED TO BE DEMOLISHED.
- PATCH, REPAIR & MAKE GOOD ALL WALLS WHICH ARE TO REMAIN, READY TO RECEIVE NEW WALL FINISHES.
- REVIEW WITH THE CONSULTANTS, ITEMS THAT ARE UNCOVERED DURING DEMOLITION, THAT WERE NOT APPARENT PRIOR TO DEMOLITION, BEFORE REMOVING.
- ENSURE LIFE-SAFETY AND EMERGENCY SYSTEMS ARE IN WORKING ORDER AND LEFT INTACT AT THE END OF EACH DAY, DURING DEMOLITION.

## PARTITION GENERAL NOTES:

- CONTACT CONSULTANT 2 DAYS PRIOR TO COMPLETING THE LAYOUT OF ALL TOP OR BOTTOM TRACKS FOR PARTITIONS. ALL PARTITION LAYOUTS BE REVIEWED BY DESIGNER PRIOR TO COMPLETING THE CONSTRUCTION OF THE PARTITION.
- PROVIDE CHALK LINES FOR POT LIGHTS AND GYPSUM BOARD BULKHEAD LOCATIONS PRIOR TO CONSTRUCTION. ALL CHALK LINE LOCATIONS TO BE REVIEWED BY DESIGNER PRIOR TO CONSTRUCTION.
- PROVIDE CONTINUOUS CLOSED CELL FOAM TAPE AT THE INTERSECTION OF INTERIOR PARTITIONS AND COLUMNS, AND WHERE PARTITIONS MEET EXTERIOR WALLS, COLUMNS AND EXTERIOR GLAZING MULLIONS, AT THE FLOOR SLAB AND SUSPENDED CEILING.
- ENSURE A "LIGHT-TIGHT" CONNECTION WHENEVER PARTITIONS ABUT COLUMNS, PERIMETER OR CORE WALLS, INDUCTION UNITS AND WINDOW MULLIONS. CONSTRUCTION FOR ALL PARTITION TYPES MUST MAINTAIN ACOUSTICAL INTEGRITY.
- PROVIDE A SLIP JOINT, WHICH ALLOWS FOR A 25mm (1") DEFLECTION, AT THE TOP OF WALLS WHICH MEET THE FLOOR SLAB ABOVE.
- PARTITION TYPES TO BE CONTINUOUS ABOVE DOORS AND GLAZING, UNO.
- FURR OUT EXISTING COLUMNS AS REQUIRED TO ACCOMMODATE SERVICES (IE WITH STEEL FURRING/ STUDS TO SUIT AND 13mm (1/2") GWB ONE SIDE, UNO.
- MAINTAIN ACOUSTICAL INTEGRITY OF WALL WITH CONSTRUCTION FOR ALL PARTITION TYPES.
- PLACE PARTITIONS ON GRID OR CENTER OF GRID, UNO. CENTRE ANGLED WALLS ON CEILING GRID, UNO. DO NOT ALTER, CUT OR CONNECT DIRECTLY THROUGH THE EXISTING SUSPENDED CEILING GRID, UNO.
- DO NOT SCREW OR MECHANICALLY FASTEN WALLS TO WINDOW FRAMES, WINDOW MULLIONS AND CONVEXOR CABINETS.
- ALIGN PARTITIONS IN THE CENTER OF COLUMN, EDGE OF COLUMN, OR CORNER OF EXISTING WALL, UNO.
- WHERE PARTITIONS OF VARYING THICKNESS ALIGN, OR WHERE ADDITIONAL LAYER OF GWB MEETS NEW PARTITION CONSTRUCTION, ENSURE A FLUSH PARTITION FINISH ON EXPOSED FACES.
- CONSTRUCT PARTITIONS OF 13mm (1/2") GWB APPLIED TO BOTH SIDES OF (92mm) 2 1/2" STEEL STUDS, WITH R12 BATT INSULATION, UNO.
- THE PARTITION IS TO BE FINISHED TO FLOOR TO ACCOMMODATE A STRAIGHT BASE INSTALLATION.
- DIMENSIONS OF EXISTING PARTITIONS ARE TO THE FACE OF GYPSUM BOARD, UNLESS OTHERWISE INDICATED.
- DIMENSIONS OF NEW PARTITIONS ARE TO THE CENTRE OF STUD, UNLESS OTHERWISE INDICATED.
- STEEL STUDS TO BE MINIMUM 25 GAUGE, LOCATED AT 400mm (16") ON CENTER, UNLESS OTHERWISE INDICATED.
- PROVIDE SOUND TRAPS AT AIR RETURN AIR OPENINGS IN PARTITIONS EXTENDING ABOVE THE CEILING LINE TO THE DECK AND FIRE DAMPERS FOR FIRE RATED PARTITIONS.
- MECHANICAL AND ELECTRICAL RISERS NOT OTHERWISE LOCATED WITHIN A PARTITION OR BEHIND A WALL STRAPPING TO BE FURRED OUT WITH STEEL FURRING / STEEL STUDS AS REQUIRED AND 13MM (1/2") GYPSUM WALL BOARD TO ENSURE THEY ARE NOT VISIBLE. FURR FURRING TIGHT TO ELECTRICAL CONDUIT OR MECHANICAL RISERS/PIPING. CONSULT DESIGNER PRIOR TO PROCEEDING.
- SEAL AND PACK PENETRATIONS THROUGH FIRE WALLS IN ACCORDANCE WITH SECTION 07840 - FIRE STOPPING. MAINTAIN INTEGRITY OF SEPARATION. ALL CONTRACTORS ARE RESPONSIBLE FOR FIRE STOPPING UNO.
- CAULK JOINTS THE FULL HEIGHT, WHERE STUD PARTITIONS ABUT CONCRETE BLOCK WALLS.
- ENSURE DOOR HARDWARE AND ELECTRICAL EQUIPMENT ARE ADJUSTED IN THICKNESS AND SIZE TO ALLOW FOR RECESSED CONDITIONS IN DOORS, FRAMES AND PARTITIONS.
- INSTALL PLYWOOD BLOCKING / BACKING TO SUIT, IN PARTITIONS AT MILLWORK, FURNISHINGS, FIXTURES, COAT HOOKS, GRAB BARS, EQUIPMENT AND AREAS ALLOCATED FOR FUTURE SIGNAGE. PRIOR TO GYPSUM WALLBOARD BEING INSTALLED, INSTALL LEVEL AND PLUMB, RIGIDLY ANCHORED TO SUBSTRATE.
- USE BUILDING STANDARD "CADDY CLIPS, OR REVOE STANDARD CLIPS" TO ANCHOR PARTITIONS TO CEILING GRID. NEVER PUNCTURE CEILING GRID. USE "RAWL NAILING ANCHORS" OR LOW VELOCITY "HILTI" FASTENERS WITH MAXIMUM PENETRATION OF 19MM (3/4") TO ANCHOR PARTITIONS TO FLOOR SLAB. NEVER PUNCTURE EXTERIOR WALL WINDOW MULLIONS TO ANCHOR PARTITIONS. INCLUDE T-BAR MODIFICATION WORK IN CONTRACT.
- USE Z-275 ANTI-RUST FINISH METAL STUDS AT WET AND HIGH HUMIDITY PRONE AREAS (IE. STEAM ROOMS, SWIMMING POOL, CHANGE ROOMS, ETC.) AND AREAS THAT WILL BE CONTINUOUSLY IN CONTACT WITH WATER OR HUMIDITY.

## CEILING GENERAL NOTES:

- MAKE GOOD OR REPLACE AS REQUIRED ALL DAMAGED ACOUSTIC CEILING TILES. GROUP NEW CEILING TILES WITH NEW CEILING TILES AND OLD CEILING TILES WITH OLD CEILING TILES.
- PROVIDE FLUSH MOUNTED GYPSUM BOARD CEILING ACCESS PANELS AS REQUIRED TO MATCH DESIGNERS DETAILS. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR REQUIRED LOCATIONS, OR PROVIDE AS REQUIRED TO MEET CODE.
- ENSURE DIFFUSERS, ESCUTCHEON PLATES AND LIGHTING TRIMS ARE TIGHT TO CEILING.
- COORDINATE INSTALLATION OF SPECIALTY LIGHTING FIXTURES THAT ARE OUTLINED ON THE REFLECTED CEILING PLAN & ELECTRICAL PLANS TO ENSURE NO OTHER CEILING ELEMENTS, SUCH AS DIFFUSERS, SPRINKLERS, EMERGENCY EXITING LIGHTING, ETC. INTERFERES WITH THEIR PLACEMENT.
- ALTER THE SUSPENDED T-BAR CEILING TO SUIT THE LAYOUT OF ELECTRICAL AND MECHANICAL FIXTURES AND EQUIPMENT.
- RECESSED LIGHT FIXTURES INSTALLED IN ACOUSTIC TILE TO BE CENTERED ON TILE, UNO.
- MAKE GOOD T-BAR CEILING, WHERE EXISTING WALLS THAT RUN SLAB TO SLAB ARE DEMOLISHED, MAKE GOOD T-BAR CEILING TO MATCH ORIGINAL GRID LAYOUT.
- MECHANICAL AND ELECTRICAL FIXTURE LOCATIONS ARE TO BE REVIEWED BY DESIGNER PRIOR TO CEILING BEING COMPLETED. PROVIDE A MINIMUM 24 HOUR NOTICE TO PRIOR TO REVIEW BEING REQUIRED.
- NEW SPRAYED FIREPROOFING TO MATCH EXISTING. APPLY FIRE RESISTIVE SPRAYED FIREPROOFING MATERIAL TO ALL NEW STRUCTURE STEEL AND METAL DECKING AND MAKE GOOD ALL EXISTING, AS REQUIRED TO PROVIDE A 2 HOUR FIRE RESISTANCE RATED ASSEMBLY, IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES AND THE MANUFACTURERS INSTRUCTIONS. AT LEAST 2 WEEKS PRIOR TO THE SCHEDULED APPLICATION OF SPRAYED FIREPROOFING SUBMIT A SCHEDULE LISTING THE SURFACES TO WHICH FIREPROOFING IS TO BE APPLIED, AND INDICATING THE MINIMUM THICKNESS REQUIRED.
- NEW SUSPENDED GYPSUM BOARD CEILING
  - HANGERS: SOFT ANNEALED GALVANIZED STEEL WIRE, MINIMUM DIA. .4mm (12 GAUGE) WITH ACTUAL DIAMETER DETERMINED BY LOADS. MAXIMUM SPACING 610mm (24") O.C.
  - INSTALL CEILING SUSPENSION & GYPSUM BOARD IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
  - INSTALL SUSPENSION SYSTEMS IN ACCORDANCE WITH ASTM C840 LEVEL TO WITHIN A TOLERANCE OF 3mm (1/8") IN 3650mm (144").
  - ATTACH HANGERS DIRECTLY TO THE STRUCTURE WHERE POSSIBLE. ELSEWHERE ATTACH THEM IN V-PAIRS, OR TO NESTED CARRYING CHANNELS SUSPENDED BELOW OBSTRUCTION. DO NOT ATTACH CEILINGS TO OVERHEAD DUCTS OR PIPES.
  - DO NOT USE POWDER ACTUATED FASTENERS. ENSURE FASTENING METHODS USED CANNOT DAMAGE BUILDING STRUCTURE.
  - TIE WIRE (1.5mm, 16 GAUGE MINIMUM) GALVANIZED STEEL WIRE, ANNEALED G. PROVIDE DIAGONAL BRACING TO SUIT ( NOT LESS THAN 1200mm (48") O.C.) FOR ALL SUSPENDED SYSTEMS (IE. BULKHEADS, CEILINGS & VALANCES ETC.) TO ENSURE A RIGID SYSTEM.
  - CONSTRUCTION:
    - 13mm (1/2") GYPSUM BOARD
    - 19mm (3/4") FURRING CHANNELS TO SUIT (531mm, 25 GAUGE)
    - METAL STUD FRAMING TO SUIT (MINIMUM 531mm, 25 GAUGE)
    - 38mm (1 1/2") CARRYING CHANNELS TO SUIT (MAXIMUM 1550 LBS PER 3280 FEET)
  - HANGERS TO SUIT
  - GYPSUM BOARD FIXED TO FURRING CHANNELS; FURRING CHANNELS FIXED TO STUD FRAMING; STUD FRAMING FIXED TO CARRYING CHANNELS; CARRYING CHANNELS FIXED TO HANGERS; HANGERS FIXED TO SLAB ABOVE
  - NEW SUSPENDED T-BAR CEILING
    - HANGERS: SOFT ANNEALED GALVANIZED STEEL WIRE, MINIMUM DIA. .4mm (12 GAUGE) WITH ACTUAL DIAMETER DETERMINED BY LOADS. MAXIMUM SPACING 610mm (24") O.C.
    - SHEET METAL FILLERS: LIGHT ZINC COATED SHEET STEEL FINISHED TO MATCH T-BAR
    - WALL MOLDING - CHANNEL OR ANGLE SHAPE, WITH EXPOSED 25mm (12") FACE, LIGHT ZINC COATED SHEET STEEL FINISHED TO MATCH T-BAR
    - INSTALL CEILING SUSPENSION & ACOUSTIC PANELS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
    - INSTALL SUSPENSION SYSTEMS IN ACCORDANCE WITH ASTM C636 LEVEL TO WITHIN A TOLERANCE OF 3mm (1/8") IN 3650mm (144").
    - ATTACH HANGERS DIRECTLY TO THE STRUCTURE WHERE POSSIBLE. ELSEWHERE ATTACH THEM IN V-PAIRS, OR TO NESTED CARRYING CHANNELS SUSPENDED BELOW OBSTRUCTION. DO NOT ATTACH CEILINGS TO OVERHEAD DUCTS OR PIPES.
    - DO NOT USE POWDER ACTUATED FASTENERS. ENSURE FASTENING METHODS USED CANNOT DAMAGE BUILDING STRUCTURE.

## WALL FINISH GENERAL NOTES:

- WHERE DARK PAINT COLORS ARE SPECIFIED, ENSURE PRICING INCLUDES FOR ADEQUATE COATS OF PAINT FOR COMPLETE COVERAGE.
- PAINT PERIMETER DRYWALL SOFFITS AND RADIATOR CABINETS TO MATCH ADJACENT SURFACES, UNO.
- WHERE EXISTING DOORS ARE TO BE PAINTED, REMOVE SIGNS, DOOR HARDWARE, AND MASK OFF HINGES FROM EXISTING DOORS, PRIOR TO PAINTING.
- CHANGES IN WALL FINISHES TO OCCUR ON AN INSIDE CORNER, UNO.
- PAINT MISCELLANEOUS METALS, ACCESS PANELS, FIRE ALARM GRILLS AND FIREHOSE CABINETS TO MATCH ADJACENT WALL OR CEILING COLOR, UNO.
- PATCH AND MAKE GOOD EXISTING WALLS TO RECEIVE NEW PAINT FINISH, UNO.
- REPAIR AND LEVEL GYPSUM SURFACES IN ORDER TO RECEIVE NEW FINISHES.
- PROVIDE MINIMUM ONE COAT PRIMER TO GYPSUM SURFACES.
- PROVIDE MINIMUM THREE (3) FINISHING COATS OF PAINT TO GYPSUM WALLS.
- PAINT (2) WALLS OF EACH COLOR FOR REVIEW AND ACCEPTANCE BY CONSULTANT.

## ABBREVIATIONS LEGEND:

AD	ACCESS DOOR	OC	ON CENTER
AFF	ABOVE FINISHED FLOOR	OD	OUTSIDE DIAMETER
AFB	ABOVE FINISH GRADE	OH	OVERHEAD
ALT	ALTERNATE	OPNG	OPENING
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	OR	OUTSIDE RADIUS
BM	BENCHMARK	PART	PARTITION
C	CHANNEL	PAVE	PAVEMENT
CC	CUBIC CENTIMETER	PL	PROPERTY LINE
CFM	CUBIC FEET PER MINUTE	PT	PAINT
CJ	CONTROL JOINT CENTERLINE	PWR	POWER
CMU	CONCRETE MASONRY UNIT	R	RADIUS
CTR	CENTER	REINF	REINFORCED
CU FT	CUBIC FEET	RIS	RISER
CW	COMPLETE WITH	RM	ROOM
D	DEPTH	RMV	REMOVE
DA	DIAMETER	RO	ROUGH OPENING
DR	DOOR	SF	SOUTH
		SF	SQUARE FOOT (FEET)
		SIM	SIMILAR
		SO	SQUARE
		SQ IN	SQUARE INCH
		ST	STAIN
		SWC	SOIL WOOD CORE
		TH	THICKNESS
		TBD	TO BE DETERMINED
		TOB	TOP OF BEAM
		TOC	TOP OF CURB
		TOP	TOP OF FLOOR
		TOFD	TOP OF FOUNDATION
		TOJ	TOP OF JOIST
		TOM	TOP OF MASONRY
		TOSL	TOP OF SLAB
		TOST	TOP OF STEEL
		TOT	TOP OF TRUSS
		TOW	TOP OF WALL
		TYP	TYPICAL
GA	GAUGE	UL	UNDERWRITERS LABORATORY
GALV	GALVANIZED	UNF	UNFINISHED
GL	GLAZING	UNO	UNLESS NOTED OTHERWISE
GWB	GYPSUM WALL BOARD		
H	HEIGHT	VB	VAPOUR BARRIER
HDW	HARDWARE	VOS	VELOUR ON SITE
HM	HOLLOW METAL		
HORIZ	HORIZONTAL	W	WEST
HR	HANDRAIL	WDW	WIDTH
		WI	WINDOW
		W/	WITH
		W/O	WITHOUT
ID	INSIDE DIAMETER		
INSUL	INSULATION		
INT	INTERIOR		
K	THOUSAND		
LAM	LAMINATE		
LAV	LAVATORY		
LBS	POUNDS		
LFT	LINEAR FEET		
LINO	LINOLEUM		
LH	LEFT HAND		
LT	RIGHT HAND		
LG	LIGHTING		
MECH	MECHANICAL		
mm	MILLIMETER		
MOD	MODULAR		
N	NORTH		
N/A	NOT APPLICABLE		
NFC	NOT FOR CONSTRUCTION		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NTS	NOT TO SCALE		

## DOOR & HARDWARE

### ABBREVIATIONS

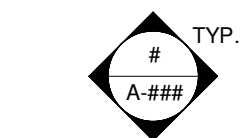
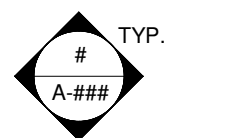
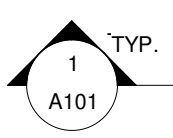
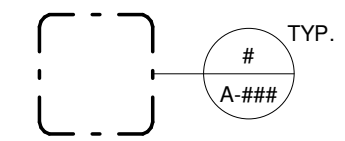
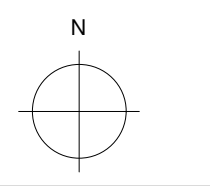


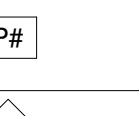
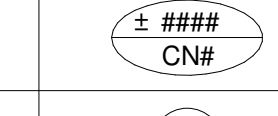
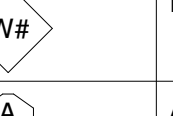


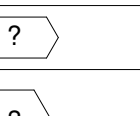

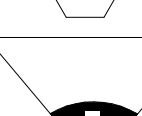
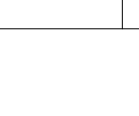
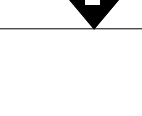


#### DOOR TYPES

DD	DOUBLE DOOR
GL	GLAZING
LH	LEFT HAND
RT	RIGHT HAND
SD	SINGLE DOOR

#### DOOR / FRAME FINISHES

AL	ALUMINUM
AN	ANODIZED
GL	GLAZING
HM	HOLLOW METAL
PS	PRESSED STEEL
PT	PAINT
ST	STAIN
WD	WOOD (SOLID CORE IN REFERENCE TO DOORS)

## GENERAL DRAFTING SYMBOLS

DRAWING TITLE	VIEW NAME	ADDITIONAL TEXT	1:###
ELEVATION MARKERS	 TYP. # A-###	 TYP. # A-###	
SECTION MARKER	 TYP. # A101		
CALLOUT / DETAIL VIEW	 TYP. # A-###		
NORTH ARROW		ROOM TAG	ROOM NAME ### 150 m2 (150 SF)
GRID HEAD		LEVEL HEAD	NAME ELEVATION 
PARTITION TYPE TAG		CEILING TAG	
WINDOW TYPE TAG		KEYNOTE TAG	
EQUIPMENT TAG		APPLIANCE TAG	
DOOR TAG		WALL FINISH TAG	
MILLWORK FINISH TAG		FLOOR FINISH TAG	
REVISION TAG		ISOMETRIC VIEW DIRECTION	

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Lemay + Toker is a trade name owned and used by  
Toker + Associates Architecture Industrial Design Ltd.

## CONSULTANTS

Mechanical:



Electrical:



## SEALS

NOT FOR CONSTRUCTION

**FLOOR FINISH GENERAL NOTES:**

- WHERE NEW FLOOR COVERING IS TO BE INSTALLED, REMOVE THE EXISTING FLOORING AND ITS ADHESIVES AND MAKE GOOD THE EXISTING CONCRETE FLOOR READY TO RECEIVE NEW FLOORING. LEVEL THE EXISTING CONCRETE FLOOR WITH CEMENTIOUS COMPOUND (SELF LEVELING OR TROWLED ON) AS REQUIRED TO SUIT NEW FLOORING MATERIAL. APPLICATION PRIOR TO INSTALLATION. MINIMUM LEVELING TO BE TO 6MM (1/4") HEIGHT MAXIMUM DIFFERENCE OVER RUN OF 3050MM (10'-0").
- WHERE BUTT JOINTS IN FLOOR ARE REQUESTED, FEATHER UP FLOOR SLAB (AS REQUIRED) TO INSURE EACH FLOOR FINISH IS LEVEL WITH THE ADJOINING FLOOR FINISH. ENSURE SURFACE OF ALL CARPET AREAS ARE 3mm (1/8") HIGHER THAN ADJACENT HARD SURFACE FLOORING. PROVIDE CONCRETE TOPPING FEATHERED A MINIMUM OF 900mm (3'-0") TO EVERY 25mm (1") TRANSITION HEIGHT CHANGE, UNLESS NOTED OTHERWISE.
- PROVIDE SCHLUTER, JOLIE, BRUSHED ALUMINUM TRANSITION / REDUCER STRIPS AT ALL TRANSITIONS BETWEEN FLOORING TYPES. (IE VCT / SHEET SHEET FLOORING/ CARPET / LUXURY VINYL FLOORING / CERAMIC TILE & WOOD FLOORING).
- TERMINATE CHANGE IN FLOOR FINISH AT CENTERLINE OF DOOR WHEN DOOR IS IN FULL CLOSED POSITION, UNLESS OTHERWISE NOTED.
- INSTALL CARPET WITH DIRECT GLUE DOWN METHOD, USING MANUFACTURER'S RECOMMENDED ADHESIVES, UNO.
- INSTALL BROADLOOM CARPET WITH SEAMS JOINED WITH HEAT SEAMING TAPE. USE ADHESIVE, SEALING TAPE AND SEAL EDGES IN ACCORDANCE WITH CARPET MANUFACTURER RECOMMENDATIONS. SEAMING DIAGRAMS, FOR DESIGNERS REVIEW AND ACCEPTANCE, TO SHOW DIRECTION OF GRAIN TO BE CONSISTENT, NO CROSS SEAMS. ENSURE CUTS IN CARPET ARE STRAIGHT AND RUNNING IN LINE WITH CARPET PATTERN. CARPET SEAMS ARE TO BE AS CONCEALED AS POSSIBLE.
- SUPPLY AND INSTALL CERAMIC TILE IN ACCORDANCE WITH TERRAZZO TILE AND MARBLE ASSOCIATION OF CANADA STANDARDS. INSTALL CERAMIC TILE USING THE THINSET METHOD.
- INSTALL VINYL COMPOSITE TILE FLOORING, SHEET FLOORING AND LUXURY SHEET FLOORING WITH DIRECT GLUE DOWN METHOD, USING MANUFACTURER'S RECOMMENDED ADHESIVES.
- SEAL NEW VINYL COMPOSITE TILE FLOORING, SHEET FLOORING AND LUXURY SHEET FLOORING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- FLOOR FINISHES ARE TO EXTEND COMPLETELY UNDER MILLWORK, UNO.

**MILLWORK GENERAL NOTES:**

- MEET OR EXCEED THE REQUIREMENTS OF THE AWMAC, PREMIUM GRADE QUALITY STANDARDS FOR FABRICATION, SUPPLY, FINISH AND INSTALLATION OF WOODWORK.
- SET AND SECURE COMPONENTS IN PLACE, RIGID, PLUMB, AND SQUARE TO AWMAC PREMIUM GRADE QUALITY STANDARDS
- INSTALL PLYWOOD BLOCKING / BACKING TO SUIT, IN PARTITIONS AT MILLWORK, FURNISHINGS, FIXTURES, COAT HOOKS, GRAB BARS, EQUIPMENT AND AREAS ALLOCATED FOR FUTURE SIGNAGE, PRIOR TO GYPSUM WALLBOARD BEING INSTALLED. INSTALL BLOCKING LEVEL AND PLUMB, RIGIDLY ANCHORED TO SUBSTRATE.
- PROVIDE APPROPRIATE & ADEQUATE BRACING FOR CANTILEVERED SHELVES OR COUNTERTOPS, WITH CONCEALED METAL STRUCTURE (INSTALLED BEHIND GYPSUM), INDICATE THIS ON SHOP DRAWINGS.
- CONFORM TO AWMAC FLUSH OVERLAY DETAILS FOR CASEWORK, UNO.
- CONFIRM DIMENSIONS AND CONDITIONS ON SITE, PRIOR TO FABRICATION.
- EXPPOSED END GABLES ON UPPER CABINetry TO BE BUILT TO CONCEAL UNDER CABINET LIGHTING, (WHERE APPLICABLE), END PORTION OF EXPOSED UNDERSIDE OF CABINET AT LIGHT FIXTURE (WHERE APPLICABLE), ALL END GABLES TO BE FINISHED TO MATCH THE ADJACENT MILLWORK FACE, UNO.
- PROVIDE INSERT GROMMETS IN COUNTERTOPS AS DIRECTED BY DESIGNER AND CLIENT ON SITE. COLOR OF GROMMETS TO MATCH COUNTER TOP, UNO.
- CONFIRM SIZES OF OWNER'S APPLIANCES, EQUIPMENT AND ACCESSORIES PRIOR TO FABRICATION.
- INSTALL MILLWORK WITH CONCEALED FASTENERS, UNO.
- SAND AND FILL SOLID WOOD OR WOOD VENEERED PLYWOOD, TO ENSURE A SMOOTH EVEN SURFACE, PRIOR TO FINISHING.
- PROVIDE ADEQUATE CLEARANCE FOR SPECIFIED HARDWARE AT DOORS & DRAWERS, TO ENSURE DOORS & DRAWERS WILL OPEN FULLY.
- PROVIDE HARDWARE IN BRUSHED STAINLESS STEEL FINISH, UNO.
- ALL BUILT-IN EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND REQUIREMENTS.
- PLASTIC LAMINATE FINISHES TO BE SUPPLIED, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- USE ADHESIVES: NATIONALLY RECOGNIZED BRANDS, SUITABLE FOR INTENDED APPLICATION. WHERE POSSIBLE & WITHOUT AFFECTING THE QUALITY OF THE INSTALLATION, USE ACCEPTABLE ADHESIVES WITH LOW VOC EMISSIONS.
- NOTE: "PB" DENOTES PARTICLE BOARD, 45 LB(20.5 KG) INDUSTRIAL GRADE
- NOTE: "MDF" DENOTES MEDIUM DENSITY FIBRE BOARD, 40 LB(18KG), INDUSTRIAL GRADE. SAND AND FILL TO ENSURE NO JOINERY IS VISIBLE.

**MILLWORK CONSTRUCTION NOTES:**

- MILLWORK CONSTRUCTION FOR MILLWORK WITH VENEER FINISH:**  
NOTE: "PB" DENOTES PARTICLE BOARD, 45 LB(20.5 KG) INDUSTRIAL GRADE
- GABLES 19 MM (3/4") WOOD VENEERED PB C/W SOLID WOOD END CAPS.
  - CABINET BODY 19 MM (3/4") WOOD VENEERED PB C/W SOLID WOOD END CAPS.
  - COUNTER TOP AND BACKSPLASH 19 MM (3/4") WOOD VENEERED PLYWOOD C/W SOLID WOOD END CAPS.
  - CABINET DOORS 19 MM (3/4") WOOD VENEERED PB C/W SOLID WOOD END CAPS.
  - DRAWERS:
    - FRONT 19 MM (3/4") WOOD VENEERED PB C/W SOLID WOOD END CAPS.
    - BOX SIDES 12 MM (1/2") WOOD VENEERED PB C/W SOLID WOOD END CAPS.
    - BOTTOM 6 MM (1/4") WOOD VENEERED PLYWOOD.
  - BASE 19 MM (3/4") WOOD VENEERED PLYWOOD.
  - ADJUSTABLE SHELVES 19 MM (3/4") WOOD VENEERED PB C/W SOLID WOOD END CAPS.
  - DRAWER AND DOOR STOPS TO BE SOLID WOOD.
  - PROVIDE ALL BLOCKING AS REQUIRED. BLOCKING TO BE SOLID WOOD.
  - veneER OVER SOLID WOOD END CAPS TO ENSURE JOINT OF SOLID WOOD AT PB OR PLYWOOD IS NOT VISIBLE.

**MILLWORK FINISHES FOR MILLWORK WITH VENEER FINISH:**  
NOTE: UNLESS SPECIFIED OTHERWISE

- ALL EXTERIOR EXPOSED FACES C/W STAIN AND TWO COATS OF SATIN FINISH WATER BORNE LAQUER.
- ALL INTERIOR EXPOSED FACES C/W STAIN AND TWO COATS OF SATIN WATER BORNE LAQUER.
- ALL COUNTERTOPS AND BACKSPLASHES, EXPOSED FACES C/W STAIN AND TWO COATS OF SATIN WATER BORNE LAQUER.

**MILLWORK CONSTRUCTION FOR MILLWORK WITH PLASTIC LAMINATE FINISH:**  
NOTE: UNLESS SPECIFIED OTHERWISE SOLID WOOD TO BE FIR C/W PLASTIC LAMINATE FINISH:  
NOTE: "PB" DENOTES PARTICLE BOARD, 45 LB (20.5KG) INDUSTRIAL GRADE

- CABLES 19 MM (3/4") PB.
- CABINET BODY 19 MM (3/4") PB.
- COUNTER TOP AND BACKSPLASH 19 MM (3/4") PLYWOOD.
- CABINET DOORS 19MM (3/4") PB.
- DRAWERS
  - FRONT 19 MM (3/4") PB
  - SIDES 12 MM (1/2") PB
  - BOTTOM 6 MM (1/4") PLYWOOD
- BASE 19 MM (3/4") PLYWOOD.
- ADJUSTABLE SHELVES 19 MM (3/4") PB.
- DRAWER AND DOOR STOPS TO BE SOLID WOOD.
- PROVIDE ALL BLOCKING AS REQUIRED. BLOCKING TO BE SOLID WOOD.

**MILLWORK FINISHES FOR MILLWORK WITH PLASTIC LAMINATE FINISH:**  
NOTE: UNLESS SPECIFIED OTHERWISE

- ALL EXTERIOR EXPOSED FACES C/W PLASTIC LAMINATE.
- ALL GABLE FACES AND DOOR & DRAWER FACES C/W PLASTIC LAMINATE.
- ALL INTERIOR FACES COVERED BY DOORS OR DRAWERS C/W MELAMINE.
- ALL EXTERIOR EXPOSED FACES OF COUNTER TOP AND BACK SPLASH TO BE PLASTIC LAMINATE

**MILLWORK CONSTRUCTION FOR MILLWORK WITH LAQUER OR PAINT FINISH:**  
NOTE: UNLESS SPECIFIED OTHERWISE SOLID WOOD TO BE FIR C/W LAQUER OR PAINT FINISH:  
NOTE: "MDF" DENOTES MEDIUM DENSITY FIBRE BOARD INDUSTRIAL GRADE

- CABLES 19 MM (3/4") MDF.
- CABINET BODY 19 MM (3/4") MDF.
- COUNTER TOP AND BACKSPLASH 19 MM (3/4") PLYWOOD.
- CABINET DOORS 19MM (3/4") MDF.
- DRAWERS
  - FRONT 19 MM (3/4") MDF
  - SIDES 12 MM (1/2") MDF
  - BOTTOM 6 MM (1/4") PLYWOOD
- BASE 19 MM (3/4") PLYWOOD.
- ADJUSTABLE SHELVES 19 MM (3/4") MDF.
- DRAWER AND DOOR STOPS TO BE SOLID WOOD.
- PROVIDE ALL BLOCKING AS REQUIRED. BLOCKING TO BE SOLID WOOD.

**MILLWORK FINISHES FOR MILLWORK WITH LAQUER OR PAINT FINISH:**  
NOTE: UNLESS SPECIFIED OTHERWISE

- ALL EXTERIOR EXPOSED FACES LAQUER OR PAINT FINISH.
- ALL GABLE FACES AND DOOR & DRAWER FACES C/W LAQUER OR PAINT FINISH.
- ALL INTERIOR FACES COVERED BY DOORS OR DRAWERS C/W MELAMINE.
- ALL EXTERIOR EXPOSED FACES OF COUNTER TOP AND BACK SPLASH TO BE PLASTIC LAMINATE.

**MILLWORK HARDWARE NOTES:**

- HINGES: SELF-CLOSING 120 DEG. AND 270 DEG. OPENING, CONCEALED, BRIGHT METAL FINISH, 3-WAY ADJUSTABLE, MEPLA 73SSP SERIES, BLUM OR HETTICH EQUIVALENTS ARE ACCEPTABLE.
- DRAWER GUIDES: (FOR DRAWERS NOT OVER 8" (200MM) HIGH): ACCURIDE, 3800 SERIES, MEDIUM DUTY, FULL EXTENSION GUIDES.
- BOX FILE DRAWER GLIDES: (FOR DRAWERS OVER 8" (200MM) HIGH) ACCURIDE 4034, LOAD RATING 150lbs (68KG) PER PAIR.
- DRAWER & DOOR LOCKS: STANLEY OR CORBIN. KEY ALL LOCKS IN ACCORDANCE WITH CLIENTS' REQUIREMENTS. (KEY ALL LOCKS IN THE SAME ROOM THE SAME, BUT DIFFERENT FROM EVERY OTHER ROOM, UNO).
- DOOR AND DRAWER PULLS: RICHELIEU (#3487128) BRUSHED STAINLESS STEEL FINISH.
- SHELF STANDARDS: BRIGHT ZINC PLATED FOR RECESSED INSTALLATION, KNAPE & VOGT 255 ZC, WITH 256 ZC STEEL SUPPORTS.
- CABLE GROMMETS: 80 MM (3") DIAMETER PLASTIC GROMMETS, COLOR VACUUM CHROME PLATED.
- DOOR CATCHES: AMEROCK BP 3472, DOUBLE ROLLER SPRING CATCH.
- COAT HOOK: SEE DOOR HARDWARE SCHEDULE.
- COAT ROD: CHROME FINISH, HEAVY DUTY CHROME PLATED 16 GAUGE ROD, 32 MM (1 1/4") DIA, C/W CHROME PLATED END FLANGES.
- ADJUSTABLE KEYBOARD TRAYS: RICHELIEU HARDWARE MINI-ARM ADJUSTABLE KEYBOARD HOLDER AND "SOFT TOUCH" KEYBOARD TRAY CAT #14647-90 C/W # 14675-90.
- TOUCH LATCH, RICHELIEU #7503790, FINISH BLACK.
- STAND-OFF PIN, RICHELIEU 3/4" (19MM) DIAMETER, 1 1/2" (38MM) STANDOFF, BRUSHED CHROME PRODUCT # BP31338175.

**DOOR, FRAME & HARDWARE GENERAL NOTES:**

- PROVIDE NEW SOLID CORE DOORS IN ACCORDANCE WITH AWMAC 2009 QUALITY STANDARDS. WOOD DOORS TO BE PREMIUM GRADE SOLID CORE WOOD DOORS WITH PARTICLE BOARD CORE, SOLID WOOD STILES AND RAILS AND GLUED CORE. PROVIDE A TYPE "E" EDGE. PROVIDE SOLID WOOD LOCK BLOCKS FOR HARDWARE. GUARANTEE DOORS TO A PERIOD OF FIVE (5) YEARS.
- PROVIDE HOLLOW METAL DOOR AND DOOR FRAMES, IN ACCORDANCE WITH C.S.D.F.M.A. MANUFACTURERS SPECIFICATIONS FOR DOORS AND FRAMES. FRAMES TO BE 16 GAUGE STEEL, CONTINUOUSLY WELDED STEEL, PRIMED, READY TO BE PAINTED. C/W MITERED CORNERS. KNOCK DOWN FRAMES ARE NOT ACCEPTABLE. PREPARE FRAMES AND DOORS FOR HARDWARE. DOORS 18 GAUGE SEAMLESS STEEL, PAN TYPE, EDGES CONTINUOUSLY WELDED, FILLED AND GROUND SMOOTH. DOOR PRIMED READY TO BE PAINTED. DOOR CORE TO BE CONSTRUCTED WITH INSULATED WELDED STIFFENER CORES. VERTICAL STIFFENERS 18 GAUGE, WELDED TO FACES, SPACE STIFFENERS SO THAT NO UNSUPPORTED FACE AREA EXCEEDS 660mm X 381mm. WHERE INSULATE DOORS ARE CALLED FOR, INSULATE WITH RIGID FIBRE GLASS INSULATION, DENSITY 1.5 LBS/CU FT. WHERE GLAZED LITES ARE PROVIDED, THEY ARE TO BE TEMPERED GLASS, SEALED UNITS.
- PROVIDE COMMERCIAL GRADE HARDWARE AND TO MEET ALBERTA BUILDING CODE REQUIREMENTS.
- PROVIDE LOCK CYLINDERS TO MATCH BASE BUILDING KEYING SYSTEM. KEY LOCKS TO MATCH BASE BUILDING KEYING SYSTEM. KEY LOCKS TO OWNERS' REQUIREMENTS.
- OFFSET NEW DOORS 150mm (6") FROM ADJACENT PARTITION, UNO.

**WASTE MANAGEMENT PLAN:**

**1. SUMMARY**

THIS SECTION INCLUDES GENERAL REQUIREMENTS AND PROCEDURES FOR COMPLIANCE WITH CONSTRUCTION WASTE MANAGEMENT AS BASED ON THE CANADIAN GREEN BUILDING COUNCIL (CAGBC) LEED REQUIREMENTS.

- WASTE MANAGEMENT GOALS.
- WASTE MANAGEMENT PLAN.
- IMPLEMENTATION OF CONSTRUCTION WASTE MANAGEMENT.
- DOCUMENTATION.

**2. DEFINITIONS**

DEFINITIONS AS WRITTEN BELOW ARE SUPPLEMENTARY TO ALL LAWS, STATUTES, AND REGULATIONS EFFECTIVE IN ALBERTA. WHERE DEFINITIONS CONFLICT, LAWS, STATUTES, AND REGULATIONS TAKE PRECEDENCE OVER THE DEFINITIONS BELOW.

- CLEAN WASTE: UNTREATED AND UNPAINTED; NOT CONTAMINATED WITH OILS, SOLVENTS, SEALANTS OR SIMILAR MATERIALS.
- CONSTRUCTION AND DEMOLITION WASTE: SOLID WASTES TYPICALLY INCLUDING BUT NOT LIMITED TO, BUILDING MATERIALS, PACKAGING, TRASH, DEBRIS, AND RUBBLE RESULTING FROM CONSTRUCTION, REMODELING, REPAIR AND DEMOLITION OPERATIONS.
- HAZARDOUS: EXHIBITING THE CHARACTERISTICS OF HAZARDOUS SUBSTANCES INCLUDING, BUT NOT LIMITED TO, FLAMMABILITY, CORROSIVENESS, TOXICITY OR REACTIVITY.
- MATERIALS SOURCE SEPARATION PROGRAM (MSSP): CONSISTS OF A SERIES OF ONGOING ACTIVITIES TO SEPARATE REUSABLE AND RECYCLABLE WASTE MATERIAL INTO MATERIAL CATEGORIES FROM OTHER TYPES OF WASTE AT POINT OF GENERATION.
- NON-HAZARDOUS: EXHIBITING NONE OF THE CHARACTERISTICS OF HAZARDOUS SUBSTANCES, INCLUDING, BUT NOT LIMITED TO, IGNITABILITY, CORROSIVENESS, TOXICITY, OR REACTIVITY.
- NON-TOXIC: NEITHER IMMEDIATELY POISONOUS TO HUMANS NOR POISONOUS AFTER A LONG PERIOD OF EXPOSURE.
- RECYCLABLE: THE ABILITY OF A PRODUCT OR MATERIAL TO BE RECOVERED AT THE END OF ITS LIFE CYCLE AND PROCESSED INTO A NEW PRODUCT FOR REUSE BY OTHERS.
- RECYCLE: TO PROVIDE A USE FOR A THING THAT WOULD OTHERWISE BE DISPOSED OF OR DEALT WITH AS WASTE, INCLUDING COLLECTING, TRANSPORTING, HANDLING, STORING, SORTING, SEPARATING, AND PROCESSING, BUT DOES NOT INCLUDE THE APPLICATION OF WASTE TO LAND OR THE USE OF THERMAL DESTRUCTION PROCESS. TO REMOVE A WASTE MATERIAL FROM THE PROJECT SITE TO ANOTHER SITE FOR TREATMENT OR PROCESSING INTO A NEW PRODUCT FOR REUSE BY OTHERS.
- RECYCLING: THE PROCESS OF SORTING, CLEANSING, TREATING AND RECONSTITUTING MATERIALS THAT WOULD OTHERWISE BE DISCARDED AS TRASH FOR THE PURPOSE OF REUSING THE ALTERED FORM. RECYCLING DOES NOT INCLUDE BURNING, INCINERATING, OR THERMALLY DESTROYING WASTE.
- RETURN: TO GIVE BACK REUSABLE ITEMS OR UNUSED PRODUCTS TO VENDORS FOR CREDIT.
- REUSE: TO USE CONSTRUCTION MATERIAL THAT WOULD OTHERWISE BE TRASH IN SOME MANNER ON THE PROJECT SITE.
- PAINT.
- SALVAGE: TO REUSE A CONSTRUCTION MATERIAL THAT WOULD OTHERWISE BE TRASH ON A CONSTRUCTION SITE OTHER THAN THE PROJECT SITE.
- SOURCE SEPARATION: THE ACT OF KEEPING DIFFERENT TYPES OF WASTE MATERIALS SEPARATE BEGINNING FROM THE FIRST TIME THEY BECOME WASTE MATERIALS.
- TOXIC: POISONOUS TO HUMANS EITHER IMMEDIATELY OR AFTER A LONG PERIOD OF EXPOSURE.
- TRASH: ANY PRODUCT OR MATERIAL UNABLE TO BE REUSED, RETURNED, RECYCLED, OR SALVAGED.
- WASTE MANAGEMENT PLAN (WMP): A PROJECT-RELATED PLAN FOR THE COLLECTION, TRANSPORTATION, AND FINAL DISPOSITION OF THE WASTE GENERATED AT THE CONSTRUCTION SITE. THE PURPOSE OF THE PLAN IS TO ULTIMATELY REDUCE THE AMOUNT OF MATERIAL BEING LAND FILLED, THE PLAN INVOLVES MEASURING AND ESTIMATING THE QUANTITY AND COMPOSITION OF WASTE, AND IDENTIFYING REASONS FOR WASTE GENERATION INCLUDING AND ANY OPERATIONAL FACTORS. THEN, BASED ON THIS INFORMATION, ADDRESS OPPORTUNITIES FOR REDUCTION, REUSE, SALVAGING, OR RECYCLING OF MATERIALS.

- REUSE: TO USE CONSTRUCTION MATERIAL THAT WOULD OTHERWISE BE TRASH IN SOME MANNER ON THE PROJECT SITE.
- PAINT.
- SALVAGE: TO REUSE A CONSTRUCTION MATERIAL THAT WOULD OTHERWISE BE TRASH ON A CONSTRUCTION SITE OTHER THAN THE PROJECT SITE.
- SOURCE SEPARATION: THE ACT OF KEEPING DIFFERENT TYPES OF WASTE MATERIALS SEPARATE BEGINNING FROM THE FIRST TIME THEY BECOME WASTE MATERIALS.
- TOXIC: POISONOUS TO HUMANS EITHER IMMEDIATELY OR AFTER A LONG PERIOD OF EXPOSURE.
- TRASH: ANY PRODUCT OR MATERIAL UNABLE TO BE REUSED, RETURNED, RECYCLED, OR SALVAGED.
- WASTE: EXTRA MATERIAL OR MATERIAL THAT HAS REACHED THE END OF ITS USEFUL LIFE IN ITS INTENDED USE. WASTE INCLUDES TRASH, SALVAGEABLE, RETURNABLE, RECYCLABLE, AND REUSABLE MATERIAL.
- WASTE MANAGEMENT PLAN (WMP): A PROJECT-RELATED PLAN FOR THE COLLECTION, TRANSPORTATION, AND FINAL DISPOSITION OF THE WASTE GENERATED AT THE CONSTRUCTION SITE. THE PURPOSE OF THE PLAN IS TO ULTIMATELY REDUCE THE AMOUNT OF MATERIAL BEING LAND FILLED, THE PLAN INVOLVES MEASURING AND ESTIMATING THE QUANTITY AND COMPOSITION OF WASTE, AND IDENTIFYING REASONS FOR WASTE GENERATION INCLUDING AND ANY OPERATIONAL FACTORS. THEN, BASED ON THIS INFORMATION, ADDRESS OPPORTUNITIES FOR REDUCTION, REUSE, SALVAGING, OR RECYCLING OF MATERIALS.

**3. DOCUMENTS**

- MAINTAIN AT JOB SITE, ONE COPY OF FOLLOWING DOCUMENTS:
  - WASTE MANAGEMENT PLAN.
  - MATERIAL SOURCE SEPARATION PLAN.
  - SCHEDULES COMPLETED FOR PROJECT.
- USE OF SITE AND FACILITIES
- EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO SITE.
- PROVIDE TEMPORARY SECURITY MEASURES.
- SUBMITTAL

- SUBMIT FOR REVIEW A MATERIALS SOURCE SEPARATION PROGRAM WITHIN TEN (10) DAYS AFTER RECEIPT OF LETTER OF BID ACCEPTANCE, OR PRIOR TO ANY WASTE REMOVAL, WHICHEVER OCCURS SOONER. INCLUDE:
  - LIST OF ACTIVITIES TO SEPARATE REUSABLE AND RECYCLABLE WASTE MATERIAL INTO MATERIAL CATEGORIES FROM OTHER TYPES OF WASTE AT POINT OF GENERATION.
  - PLAN OF IMPLEMENTATION.
  - SITE/FLOOR PLANS OF AREAS NEEDED FOR MSSP SHOWING BINS, PALLETS, OR OTHER NECESSARY CONTAINMENT FOR WASTE AND SEPARATED WASTE MATERIALS.
  - IF REQUESTED SUBMIT WEIGH-BILLS, INVOICES AND OTHER DOCUMENTATION CONFIRMING THAT ALL MATERIALS HAVE BEEN HAULED TO THE REQUIRED LOCATIONS.
- PRIOR TO INTERIM ACCEPTANCE OF THE WORK, PROVIDE THE FOLLOWING SUBMITTALS:
  - SUBMIT TWO COPIES OF COMPLETED WASTE MANAGEMENT PLAN.

- EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO SITE.
- PROVIDE TEMPORARY SECURITY MEASURES.

**5. SUBMITTAL**

- SUBMIT FOR REVIEW A MATERIALS SOURCE SEPARATION PROGRAM WITHIN TEN (10) DAYS AFTER RECEIPT OF LETTER OF BID ACCEPTANCE, OR PRIOR TO ANY WASTE REMOVAL, WHICHEVER OCCURS SOONER. INCLUDE:
  - LIST OF ACTIVITIES TO SEPARATE REUSABLE AND RECYCLABLE WASTE MATERIAL INTO MATERIAL CATEGORIES FROM OTHER TYPES OF WASTE AT POINT OF GENERATION.
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  - IF REQUESTED SUBMIT WEIGH-BILLS, INVOICES AND OTHER DOCUMENTATION CONFIRMING THAT ALL MATERIALS HAVE BEEN HAULED TO THE REQUIRED LOCATIONS.
- PRIOR TO INTERIM ACCEPTANCE OF THE WORK, PROVIDE THE FOLLOWING SUBMITTALS:
  - SUBMIT TWO COPIES OF COMPLETED WASTE MANAGEMENT PLAN.

**6. STORAGE, HANDLING AND PROTECTION**

- STORE, MATERIALS TO BE REUSED, RECYCLED AND SALVAGED IN LOCATIONS AS DIRECTED BY OWNER.
- UNLESS SPECIFIED OTHERWISE, MATERIALS FOR REMOVAL BECOME CONTRACTOR'S PROPERTY.
- SEPARATE NON-SALVAGEABLE MATERIALS FROM SALVAGED ITEMS. TRANSPORT AND DELIVER NON-SALVAGEABLE ITEMS TO LICENSED DISPOSAL FACILITY.
- PREVENT CONTAMINATION OF MATERIALS TO BE RECYCLED AND SALVAGED AND HANDLE MATERIALS CONSISTENT WITH REQUIREMENTS FOR ACCEPTANCE BY DESIGNATED FACILITIES.
- WHERE MATERIALS MUST BE CO-MINGLED, TAKE TO A PROCESSING FACILITY FOR SEPARATION OFF SITE.

**WASTE MANAGEMENT PLAN CONTINUED:**

**7. SCHEDULING**

- COORDINATE WORK WITH OTHER ACTIVITIES AT SITE TO ENSURE TIMELY AND ORDERLY PROGRESS OF THE WORK.

**8. WASTE MANAGEMENT GOALS**

- THIS PROJECT SHALL GENERATE THE LEAST AMOUNT OF WASTE POSSIBLE AND THAT PROCESSES THAT ENSURE THE GENERATION OF AS LITTLE WASTE AS POSSIBLE DUE TO ERROR, POOR PLANNING, BREAKAGE, MISHANDLING, CONTAMINATION, OR OTHER FACTORS SHALL BE EMPLOYED. THE INTENT OF THIS PROGRAM IS TO DIVERT CONSTRUCTION, DEMOLITION AND LAND CLEARING DEBRIS FROM LANDFILL DISPOSAL AND TO, WHEREVER POSSIBLE, REDIRECT RECYCLABLE MATERIAL EITHER BACK TO THE PROJECT OR TO THE MANUFACTURING PROCESS.
- WASTE DISPOSAL IN LANDFILLS.

**9. RESOURCES**

- INFORMATION ON RECYCLERS SPECIALIZING IN SPECIFIC CATEGORIES OF MATERIALS MAY BE OBTAINED DURING NORMAL OFFICE HOURS FROM ALBERTA ENVIRONMENT CONSTRUCTION, RENOVATION AND DEMOLITION WASTE REDUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING INFORMATION PACKETS RELEVANT TO ALL OF THE ABOVE LISTED PROGRAMS PRIOR TO STARTING WORK ON THE PROJECT, AND CONFIRMING THE FACILITIES ABILITY TO ACCEPT WASTE FROM THE PROJECT.

**10. WASTE MANAGEMENT PLAN**

- DRAFT PLAN SHALL CONTAIN THE FOLLOWING:
  - ANALYSIS OF THE PROPOSED JOBSITE WASTE EXPECTED TO BE GENERATED, INCLUDING TYPES AND QUANTITIES.
  - LANDFILL OPTIONS: THE NAME OF THE LANDFILL WHERE TRASH WILL BE DISPOSED OF, THE APPLICABLE LANDFILL TIPPING FEES, AND THE PROJECTED COST OF DISPOSING OF ALL PROJECT WASTE IN THE LANDFILL
  - ALTERNATIVES TO LANDFILL: A LIST OF EACH MATERIAL PROPOSED TO BE SALVAGED, REUSED, OR RECYCLED DURING THE COURSE OF THE PROJECT, THE PROPOSED LOCAL MARKET FOR EACH MATERIAL, AND THE ESTIMATED NET COST SAVINGS OR ADDITIONAL COSTS RESULTING FROM SEPARATING AND RECYCLING VERSUS LANDFILL EACH MATERIAL. "NET" MEANS THAT THE FOLLOWING HAVE BEEN SUBTRACTED FROM THE COST OF SEPARATING AND RECYCLING:
    - REVENUE FROM THE SALE OF RECYCLED OR SALVAGED MATERIALS, AND
    - LANDFILL TIPPING FEES SAVED DUE TO DIVERSION OF MATERIALS FROM THE LANDFILL.
  - THE LIST OF THESE MATERIALS IS TO INCLUDE, AT MINIMUM, THE FOLLOWING MATERIALS:
    - CARDBOARD.
    - CLEAN DIMENSIONAL WOOD.
    - BEVERAGE CONTAINERS.
    - LAND CLEARING DEBRIS.
    - METALS FROM BANDING, STEEL STUD TRIM, DUCTWORK, PIPING, REBAR, OTHER TRIM, STEEL, IRON, GALVANIZED SHEET STEEL, STAINLESS STEEL, ALUMINUM, COPPER, ZINC, LEAD, BRASS, AND BRONZE.
    - GYPSUM BOARD.
    - PLASTIC BUCKETS; WASTE CAN BE REDUCED BY USING PLASTIC LINED CARDBOARD DRY PACKED MATERIALS INSTEAD OF PREMIXED MOIST PACKED MATERIALS WHERE THIS OPTION IS AVAILABLE.
    - PAINT.
    - PLASTIC SHEETING AND PACKAGING, WHERE RECYCLING PROGRAMS ARE AVAILABLE.
    - RIGID PLASTIC FOAM INSULATION, WHERE RECYCLING PROGRAMS ARE AVAILABLE.
    - DISPOSERS / DOOR HARDWARE
  - THE FOLLOWING SOURCES MAY BE USEFUL IN DEVELOPING THE DRAFT WASTE MANAGEMENT PLAN: TRANSPORTERS AND MARKETS; INVESTIGATE LOCAL TRANSPORTERS AND MARKETS FOR RECYCLABLE MATERIALS, AND INCORPORATE INTO WASTE MANAGEMENT PLAN.
- THE LIST OF THESE MATERIALS IS TO INCLUDE, AT MINIMUM, THE FOLLOWING MATERIALS:
  - CARDBOARD.
  - CLEAN DIMENSIONAL WOOD.
  - BEVERAGE CONTAINERS.
  - LAND CLEARING DEBRIS.
  - METALS FROM BANDING, STEEL STUD TRIM, DUCTWORK, PIPING, REBAR, OTHER TRIM, STEEL, IRON, GALVANIZED SHEET STEEL, STAINLESS STEEL, ALUMINUM, COPPER, ZINC, LEAD, BRASS, AND BRONZE.
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**11. APPLICATION**

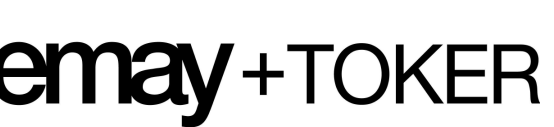
- DO WORK IN COMPLIANCE WITH REVIEWED WMP.
- HANDLE WASTE MATERIALS WHETHER LAND FILLED, REUSED, SALVAGED, RECYCLED, OR OTHERWISE DISPOSED OF, IN ACCORDANCE WITH APPROPRIATE REGULATIONS AND CODES.

**12. WASTE MANAGEMENT & MATERIAL SOURCE SEPARATION PLANS IMPLEMENTATION**

- PRIORITIZE ACTIONS AND FOLLOW 3R'S HIERARCHY, WITH REDUCTION AS FIRST PRIORITY, FOLLOWED BY REUSE, THEN RECYCLE.
- IDENTIFY OPPORTUNITIES FOR REDUCTION, REUSE, AND RECYCLING (3RS) OF MATERIALS. DESCRIBE MANAGEMENT OF WASTE.
- POST THE WORK PLAN OR SUMMARY WHERE WORKERS AT SITE ARE ABLE TO REVIEW ITS CONTENT.
- MANAGER: DESIGNATE AN ON-SITE INDIVIDUAL RESPONSIBLE FOR INSTRUCTING WORKERS AND OVERSEEING AND DOCUMENTING RESULTS OF THE WASTE MANAGEMENT PLAN AND SOURCE SEPARATION PLAN FOR THE PROJECT.
- DISTRIBUTION: DISTRIBUTE COPIES OF THE WASTE MANAGEMENT PLAN AND SOURCE SEPARATION PLAN TO THE JOB SITE FOREMAN, EACH SUBCONTRACTOR AND THE CONSULTANT.
- INSTRUCTION: PROVIDE ON-SITE INSTRUCTION OF APPROPRIATE SEPARATION, HANDLING, AND RECYCLING, SALVAGE, REUSE, AND RETURN METHODS TO BE USED BY ALL PARTIES AT THE APPROPRIATE STAGES OF THE PROJECT.
- SEPARATION FACILITIES: LAY OUT AND LABEL A SPECIFIC AREA TO FACILITATE SEPARATION OF MATERIALS FOR POTENTIAL RECYCLING, SALVAGE, REUSE, AND RETURN. RECYCLING AND WASTE BIN AREAS ARE TO BE KEPT NEAT AND CLEAN AND CLEARLY MARKED IN ORDER TO AVOID CONTAMINATION OF MATERIALS.
- HAZARDOUS WASTES: HAZARDOUS WASTES SHALL BE SEPARATED, STORED, AND DISPOSED OF ACCORDING TO LOCAL REGULATIONS.
- ON-SITE SALE OF SALVAGED, RECOVERED, REUSABLE, RECYCLABLE MATERIALS TO THE PUBLIC IS NOT PERMITTED.
- COLLECT, HANDLE, STORE ON-SITE, AND TRANSPORT OFF-SITE, SALVAGED MATERIALS IN SEPARATE CONDITION. TRANSPORT TO AUTHORIZED RECYCLING FACILITY OR TO USERS OF MATERIAL FOR RECYCLING.
- COLLECT, HANDLE, STORE ON-SITE, AND TRANSPORT OFF-SITE, SALVAGED MATERIALS IN COMBINED CONDITION. SHIP MATERIALS TO SITE OPERATING UNDER CERTIFICATE OF APPROVAL. MATERIALS MUST BE IMMEDIATELY SEPARATED INTO REQUIRED CATEGORIES FOR REUSE OF RECYCLING.

**13. CLEANING**

- REMOVE TOOLS AND WASTE MATERIALS ON COMPLETION OF WORK, AND LEAVE WORK AREA IN CLEAN AND ORDERLY CONDITION.
- CLEAN-UP WORK AREA AS WORK PROGRESSES.
- SEPARATE WASTE MATERIALS TO BE REUSED/RECYCLED INTO SPECIFIED SORT AREAS.



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Lemay + Toker is a trade name owned and used by  
Toker + Associates Architecture Industrial Design Ltd.

**CONSULTANTS**

Mechanical:



Electrical:



**SEALS**

NOT FOR CONSTRUCTION

**NOTES**

- Contractor to check and verify all dimensions prior to commencing work.
- Contractor to comply with all building codes, regulations, and ordinances of authorities having jurisdiction.
- This drawing is not to be used for construction unless stamped issued for construction by Lemay + Toker.
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**PROJECT TITLE**

**CONNECT FIRST  
- RED DEER  
INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE:** 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW
No.	Date	Description

**SCALE:** 1 : 100

**DRAWN BY:** RAC/AMK

**CHECKED BY/OA:** JO AK

**PROJECT NO:** 19-02

**DRAWING CONTENTS**

**GENERAL NOTES**

**SHEET NUMBER**

CONSULTANTS

Mechanical:



Electrical:



SEALS

NOT FOR CONSTRUCTION

NOTES

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4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

SCALE: As indicated

DRAWN BY: RAC/AMK

CHECKED BY/OA: JO AK

PROJECT NO: 19-02

DRAWING CONTENTS

**CODE REVIEW**

SHEET NUMBER

**A-003**

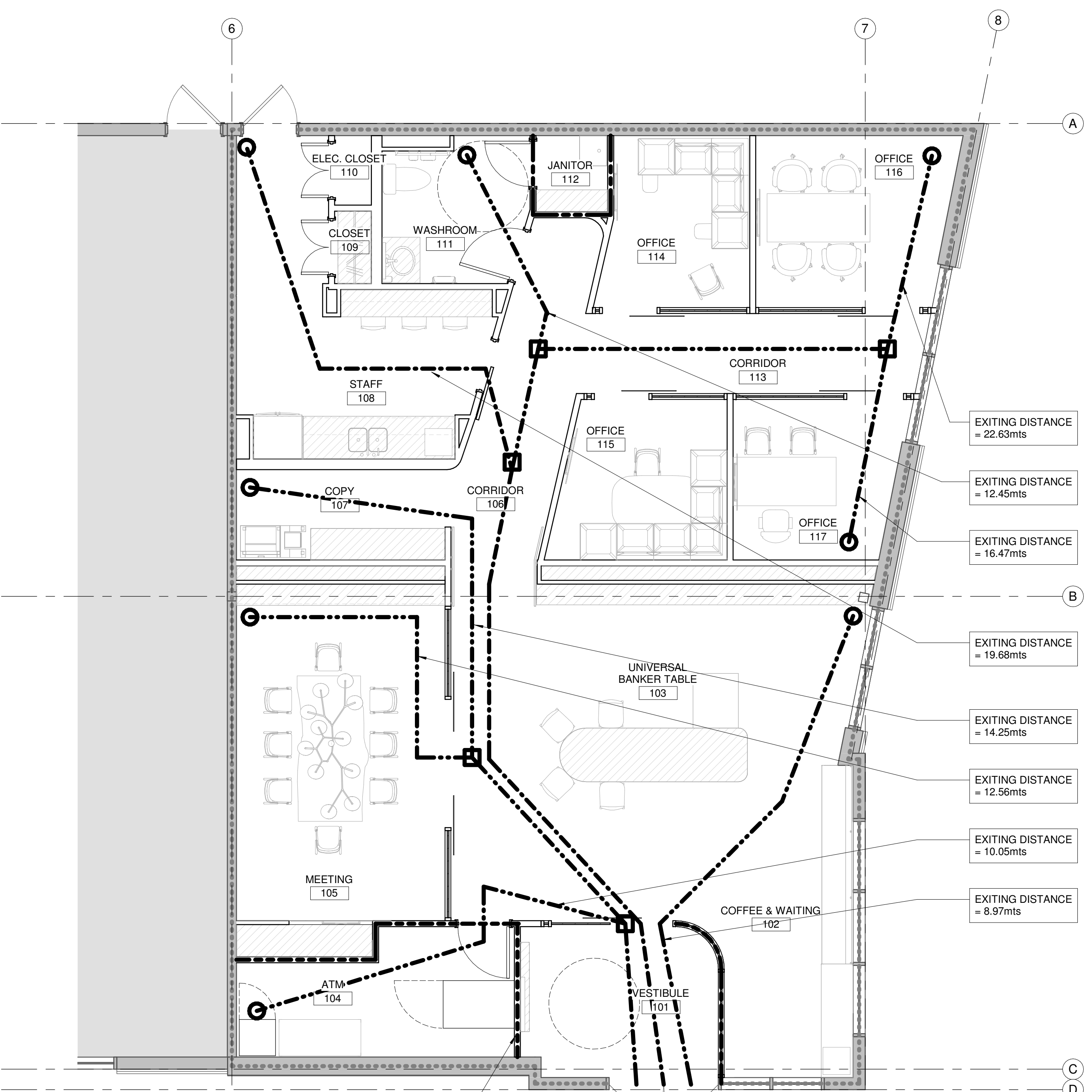
CODE REVIEW LEGEND:

- HATCHED AREA INDICATES NOT IN SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR EXCEPTIONS.
- EXISTING FIRE SEPARATION
- 1 HOUR FIRE SEPARATION
- DIAGONAL DISTANCE
- DISTANCE BETWEEN 2 EXITS
- EXITING DISTANCE
- TRAVEL DISTANCE START POINT
- TRAVEL DISTANCE INTERSECTION
- LOCATION OF EXIT

ALBERTA BUILDING CODE (2014) REVIEW

SUMMARY OF REQUIREMENTS:

<b>APPLICABLE CODE(S):</b>		ALBERTA BUILDING CODE (ABC)	
NON MODIFIED EXISTING ELEMENTS SINCE ORIGINAL CONSTRUCTION:		ALBERTA BUILDING CODE (ABC)	
SEPT 1 1991 TO MAY 31 1998:		ABC 1990	<input type="checkbox"/>
JUNE 1 1998 TO SEPT 1 2007:		ABC 1997	<input type="checkbox"/>
SEPT 2 2007 TO APRIL 30 2015:		ABC 2006	<input type="checkbox"/>
MAY 1 2015 TO MAR 31, 2019:		ABC 2014	<input type="checkbox"/>
APRIL 1 2019 TO PRESENT:		ABC 2019	<input checked="" type="checkbox"/>
TRANSFORMATION / EXPANSION IN THE SCOPE OF WORK:			
ALBERTA BUILDING CODE 2019 PARTS 3 AND 9 OF DIVISION B			
<b>CIVIC ADDRESS:</b>		<b>LEGAL DESCRIPTION:</b>	
UNIT 110, 7005 69A STREET, RED DEER, AB		PLAN 0727740; BLOCK14, LOT 98	
<b>ORIGINAL YEAR OF CONSTRUCTION:</b>		2018	
<b>POST-DISASTER BUILDING:</b>		NO	
<b>NATURE OF THE INTERVENTION:</b>		<input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> EXPANSION <input type="checkbox"/> OCCUPANCY CHANGE <input checked="" type="checkbox"/> RENOVATION <input type="checkbox"/> REPAIR / LIFE CYCLE UPDATE <input type="checkbox"/> OTHER, SPECIFY:	
<b>MAJOR OCCUPANCY:</b>		GROUP D	
<b>BUILDING AREA:</b>		EXISTING BUILDING: ± 875 m <sup>2</sup> EXPANSION / NEW CONSTRUCTION: 0 m <sup>2</sup> PROJECT AREA: ± 167 m <sup>2</sup>	
<b>BUILDING HEIGHT:</b>		STOREYS: 1	
<b>BUILDING CLASSIFICATION - TYPE OF CONSTRUCTION:</b>		(ACCORDING TO ARTICLES 3.2.2.20 & 3.2.2.90) 3.2.2.62 GROUP D, UP TO 2 STOREYS	
<b>EXISTING BUILDING</b>		<input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NONCOMBUSTIBLE <input checked="" type="checkbox"/> MIXED	
<b>FIRE-RESISTANCE RATING - RELATIVE TO OCCUPANCIES:</b>		(ACCORDING TO ARTICLES 3.2.2.20 & 3.2.2.90) DIVISION B, SUBSECTION 3.2.2	
<b>FLOOR ASSEMBLIES:</b>		45 MIN	
<b>LOADBEARING WALLS &amp; COLUMNS:</b>		45 MIN	
<b>EXITS:</b>		45 MIN	
<b>VERTICAL TRANSPORTATION:</b>		45 MIN	
<b>JANITOR'S ROOMS:</b>		1HR	
<b>FIRE SEPARATION BETWEEN OCCUPANCIES:</b>		45 MIN	
<b>AUTOMATIC SPRINKLER SYSTEM:</b>		EXISTING BUILDING: SYSTEM PRESENT: NO SYSTEM REQUIRED: NO NEW CONSTRUCTION: N/A	
<b>FIRE ALARM AND DETECTION SYSTEMS:</b>		EXISTING BUILDING: SYSTEM PRESENT: YES SYSTEM REQUIRED: YES	
<b>ADDITIONAL REQUIREMENTS FOR HIGH BUILDINGS:</b>		(DEPENDENT ON BUILDING HEIGHT AND MAJOR OCCUPANCY) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<b>MEZZANINES AND OPENINGS THROUGH FLOOR ASSEMBLIES:</b>		INTERCONNECTED FLOOR SPACE: N/A LOCATION: N/A	
<b>DANGEROUS GOODS:</b>		N/A	
<b>BARRIER FREE DESIGN:</b>		EXISTING BUILDING: N/A EXPANSION/NEW CONSTRUCTION: N/A PROJECT AREA: YES	
<b>OCCUPANT LOAD:</b>		MAX OCCUPANT LOAD: 18 PEOPLE (9.3m <sup>2</sup> / PERSON) POSTED OCCUPANT LOAD: 10 PEOPLE (SIGN TO BE POSTED)	
<b>WATER CLOSET CALCULATION:</b>		PROVIDED: 1 UNIVERSAL WATER CLOSET *OCCUPANT LOAD TO BE LIMITED TO NOT MORE THAN 10 PEOPLE.	
<b>FLAME SPREAD RATING:</b>		INTERIOR WALLS: 150 INTERIOR CEILING FINISHES: 150 EXITS: 25 VERTICAL SERVICE SPACES: 25 PUBLIC CORRIDORS WALLS: 75 EXITS THROUGH LOBBIES: N/A DOORS, SKYLIGHTS AND GLAZING: N/A LIGHT DIFFUSERS AND LENSES: 250	
<b>EGRESS IN FLOOR AREA (NON-SPRINKLERED):</b>		OCCUPANCY OF ROOM OR SUITE: GROUP D MAX. AREA OF ROOM OR SUITE: 200 m <sup>2</sup> MAX. DISTANCE TO EGRESS DOORWAY: 25 m	
<b>MINIMUM NUMBER OF EXITS:</b>		A FLOOR AREA NOT MORE THAN 2 STOREYS IN BUILDING HEIGHT IS PERMITTED TO BE SERVED BY ONE EXIT PROVIDED THE TOTAL OCCUPANT LOAD SERVED BY THE EXIT IS NOT MORE THAN 60, AND THE FLOOR AREA IS NOT MORE THAN 200 m <sup>2</sup> , AND THE TRAVEL DISTANCE IS NOT MORE THAN 25m.	
<b>LOCATION OF EXITS:</b>		MAXIMUM TRAVEL DISTANCE: 25m IN GROUP D OCCUPANCY, WITH ONLY ONE EXIT.	
<b>EXITING WIDTHS:</b>		MINIMUM EXIT CORRIDORS, PASSAGEWAYS: 1100 mm RAMPS: 1100 mm STAIRS: 1100 mm	



- EXITING DISTANCE = 22.63mts
- EXITING DISTANCE = 12.45mts
- EXITING DISTANCE = 16.47mts
- EXITING DISTANCE = 19.68mts
- EXITING DISTANCE = 14.25mts
- EXITING DISTANCE = 12.56mts
- EXITING DISTANCE = 10.05mts
- EXITING DISTANCE = 8.97mts

1 CODE REVIEW PLAN - LEVEL 1  
A-003 1:50

CONSULTANTS

Mechanical:



Electrical:



SEALS

NOT FOR CONSTRUCTION

NOTES

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PROJECT TITLE

**CONNECT FIRST  
- RED DEER  
INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

ISSUE: 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

SCALE: As indicated

DRAWN BY: RAC/AMK

CHECKED BY/OA: JO AK

PROJECT NO: 19-02

DRAWING CONTENTS

**CONSTRUCTION  
PLAN**

SHEET NUMBER

**A-101**

CONSTRUCTION PLAN LEGEND:

- HATCHED AREA INDICATES NOT IN SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR EXCEPTIONS.
- EXISTING PARTITION TO REMAIN. PROTECT DURING CONSTRUCTION.
- NEW PARTITION.
- NEW GLAZED PARTITION.
- EXISTING SWING DOOR TO REMAIN. PROTECT DURING CONSTRUCTION.
- NEW SWING DOOR.  
\* DOORS TO BE OFFSET 150MM FROM ADJACENT PARTITION
- EXISTING DOUBLE SWING DOOR TO REMAIN. PROTECT DURING CONSTRUCTION.
- NEW SLIDING DOOR.
- BARRIER FREE CIRCLE WITH 1500mm DIAMETER.
- NEW MILLWORK.
- CR CARD READER

PARTITION TYPES SCHEDULE

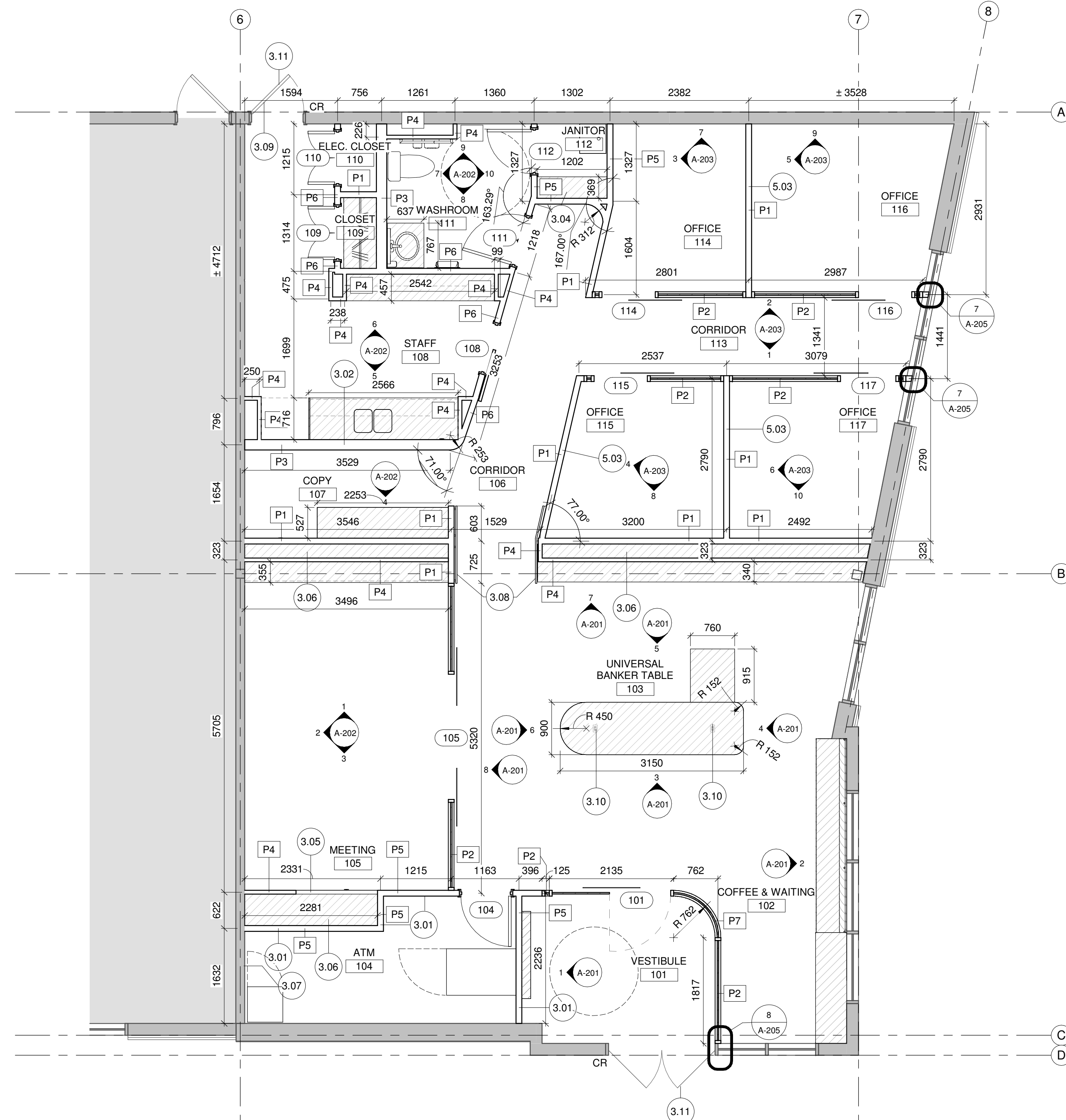
TAG	PARTITION ASSEMBLY
P1	STANDARD PARTITION FROM FLOOR TO U/S OF DECK U.N.O. - 13mm GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - ACOUSTIC INSULATION - 13 mm GYPSUM BOARD
P2	ARCHITECTURAL GLAZING PARTITION FROM FLOOR TO U/S OF CEILING U.N.O. - BLACK ALUMINUM CRL 487 SERIES OFFICE PARTITION SYSTEM OR EQUAL - GLAZING TO BE GL1. REFER TO FINISH SCHEDULE FOR GLAZING INFORMATION FROM U/S OF CEILING TO U/S OF DECK U.N.O. - 13mm GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - ACOUSTIC INSULATION - 13 mm GYPSUM BOARD
P3	PLUMBING PARTITION FROM FLOOR TO U/S OF CEILING U.N.O. - 13mm GYPSUM BOARD - 152mm METAL STUDS @ 400 O.C. - ACOUSTIC INSULATION - 13 mm GYPSUM BOARD
P4	FURRING PARTITION FROM FLOOR TO U/S OF CEILING U.N.O. - 13mm GYPSUM BOARD - 52mm METAL STUDS
P5	1HR FIRE RATED PARTITION FROM FLOOR TO U/S OF DECK U.N.O. - 16mm GYPSUM BOARD TYPE X - 92mm METAL STUDS @ 400 O.C. - ACOUSTIC INSULATION - 16 mm GYPSUM BOARD TYPE X
P6	STANDARD PARTITION FROM FLOOR TO U/S OF CEILING U.N.O. - 13mm GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - ACOUSTIC INSULATION - 13 mm GYPSUM BOARD
P7	CURVED LAMINATED GLAZING PARTITION FROM FLOOR TO U/S OF CEILING U.N.O. - BLACK ALUMINUM CRL 487 SERIES OFFICE PARTITION SYSTEM OR EQUAL - GLAZING TO BE GL2. REFER TO FINISH SCHEDULE FOR GLAZING INFORMATION FROM U/S OF CEILING TO U/S OF DECK U.N.O. - 13mm GYPSUM BOARD - 92mm METAL STUDS @ 400 O.C. - ACOUSTIC INSULATION - 13 mm GYPSUM BOARD

CONSTRUCTION PLAN GENERAL NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL ITEMS.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL ITEMS.
- CONTRACTOR TO REFER TO WALL FINISH PLANS FOR LEVEL 5 FINISHING REQUIREMENTS TO SUITE FINISHES.

CONSTRUCTION PLAN KEYNOTES

- # KEYNOTE
- 3.01 PROVIDE BAILEY METAL PRODUCTS SECURITY MESH (STYLE NO. C314-3F) IN PARTITION FROM FLOOR TO U/S DECK ON EXTERIOR STUD SIDE OF ATM ROOM.
- 3.02 PROVIDE PLYWOOD BACKING IN WALL TO ACCOMMODATE SS2 BACKSPASH
- 3.04 PROVIDE 5 ADJUSTABLE SHELVES COMPLETE WITH MELAMINE FINISH TO ALL SURFACES. PROVIDE PEG & HOLE SYSTEM AS REQUIRED.
- 3.05 RECESSED SCREEN LOCATION. REFER TO 3/A-202 & 1/A-204 FOR DETAILS.
- 3.06 MILLWORK RECESSED INTO WALL CAVITY. REFER TO A-204 MILLWORK SECTIONS FOR DETAILS.
- 3.07 EXISTING DEMISING PARTITION WITHIN ATM 104 TO BE MODIFIED W/ 3.01 SECURITY MESH.
- 3.08 FEATURE METAL THRESHOLD. REFER TO 7/A-201 FOR DETAILS.
- 3.09 PAINT INTERIOR FACE OF DOOR AND FRAME PT1.
- 3.10 PROVIDE CUTOUTS IN SS1 FOR POWER MODULES. REFER TO ELECTRICAL DRAWINGS FOR DETAILS. CONFIRM LOCATION WITH DESIGNER PRIOR TO FABRICATION.
- 3.11 MODIFY EXISTING DOOR TO ACCOMODATE NEW SECURITY HARDWARE. CARDREADER PROVIDED BY SECURITY CONSULTANT VIA CLIENT.



1 CONSTRUCTION PLAN - LEVEL 1  
A-101 1:50

**CONSULTANTS**

Mechanical:



Electrical:



SEALS

**NOT FOR CONSTRUCTION**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

ISSUE: 4

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3	2019-07-03	ISSUED FOR 95% REVIEW

SCALE: As indicated

DRAWN BY: RAC/AMK

CHECKED BY/OA: JO AK

PROJECT NO: 19-02

**DRAWING CONTENTS**

**REFLECTED CEILING PLAN**

SHEET NUMBER

**A-111**

**REFLECTED CEILING PLAN LEGEND:**

- HATCHED AREA INDICATES NOT IN SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR EXCEPTIONS.
- CEILING HEIGHT
- CEILING TYPE
- OPEN EXISTING OPEN CEILING.
- NEW GWB CEILING.
- NEW T-BAR GRID & TILE.
- NEW FEATURE CEILING.

**CEILING TYPES SCHEDULE**

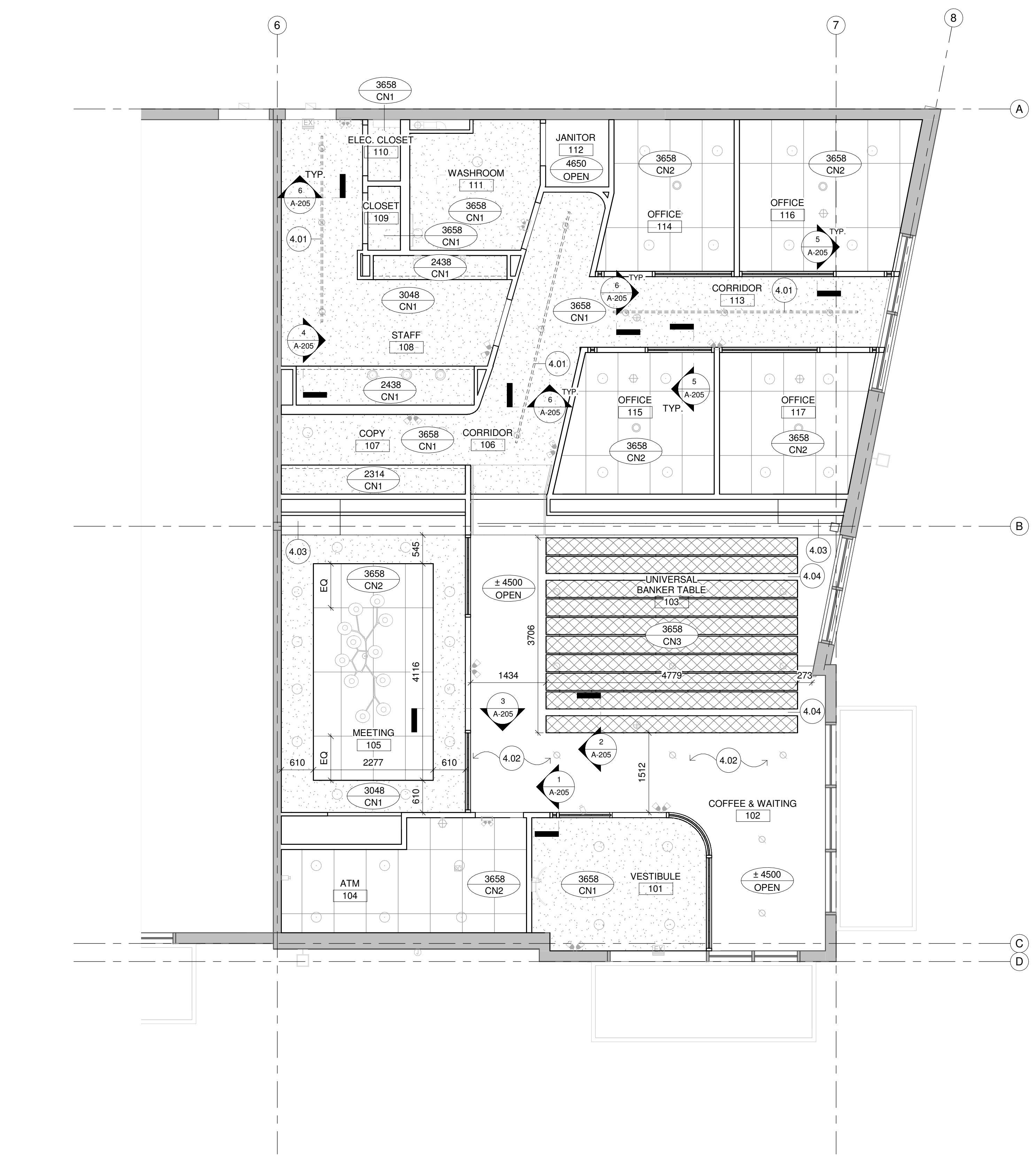
TAG	TYPE	SPECIFICATIONS
CN1	NEW GWB CEILING	MANUFACTURER: NA MODEL: NA COLOUR: TO BE PAINTED PT1
CN2	NEW T-BAR GRID & TILE	MANUFACTURER: ARMSTRONG MODEL: LYRA TENGULAR (REVEAL) WITH 9/16" SUPRAFINE SUSPENSION COLOUR: SMOOTH WHITE SIZE: 24" x 48"mm
CN3	NEW FEATURE CEILING	MANUFACTURER: FILZFELT OR APPROVED EQUAL MODEL: SUSPENDED 3MM WOOL DESIGN FELT COLOUR: 300 ANTHRACIT COMMENTS: 28MM SPACING BETWEEN FELT CURVES UNO. REFER TO 2/A-601 FOR DETAILS. SUBMIT SAMPLE TO DESIGNER FOR APPROVAL.
OPEN	EXISTING OPEN CEILING	MANUFACTURER: NA COLOUR: TO BE PAINTED PT2 NOTES: PAINT UNDERSIDE OF DECK AND DUCT WORK.

**REFLECTED CEILING PLAN GENERAL NOTES:**

- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL ITEMS.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL ITEMS.
- ALL DRYWALL CEILINGS TO BE PAINTED PT1, UNO.

**REFLECTED CEILING PLAN KEYNOTES**

- # KEYNOTE
- 4.01 RECESSED TRACK LIGHTING. REFER TO ELECTRICAL SPECIFICATIONS AND A-601 FOR DETAILS.
- 4.02 PAINT EXPOSED CEILING AND DUCTWORK PT2.
- 4.03 SEE ELEVATION 7/A-201 FOR DETAILS.
- 4.04 PROVIDE GAP FOR LINEAR DIFFUSER. REFER TO MECHANICAL DRAWINGS FOR INFORMATION.



**1 REFLECTED CEILING PLAN - LEVEL 1**  
A-111 1:50

**CONSULTANTS**

Mechanical:



Electrical:



**SEALS**

**NOT FOR CONSTRUCTION**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

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**SCALE:** As indicated

**DRAWN BY:** RAC/AMK

**CHECKED BY/QA:** JO AK

**PROJECT NO:** 19-02

**DRAWING CONTENTS**

**FLOOR FINISH PLAN**

**SHEET NUMBER**

**FLOOR FINISH PLAN LEGEND:**

- HATCHED AREA INDICATES NOT IN SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR EXCEPTIONS.
- AREA RUG
- POLISHED CONCRETE
- TRANSITION STRIP
- TRANSITION STRIP
- TILE START POINT
- LUXURY VINYL TILE
- WALK-OFF MAT
- RUBBER WALL BASE
- RUBBER WALL BASE

NOTE: PROVIDE SHOP DRAWINGS / SAMPLES PER SPECIFICATIONS.

**FLOOR FINISH SCHEDULE**

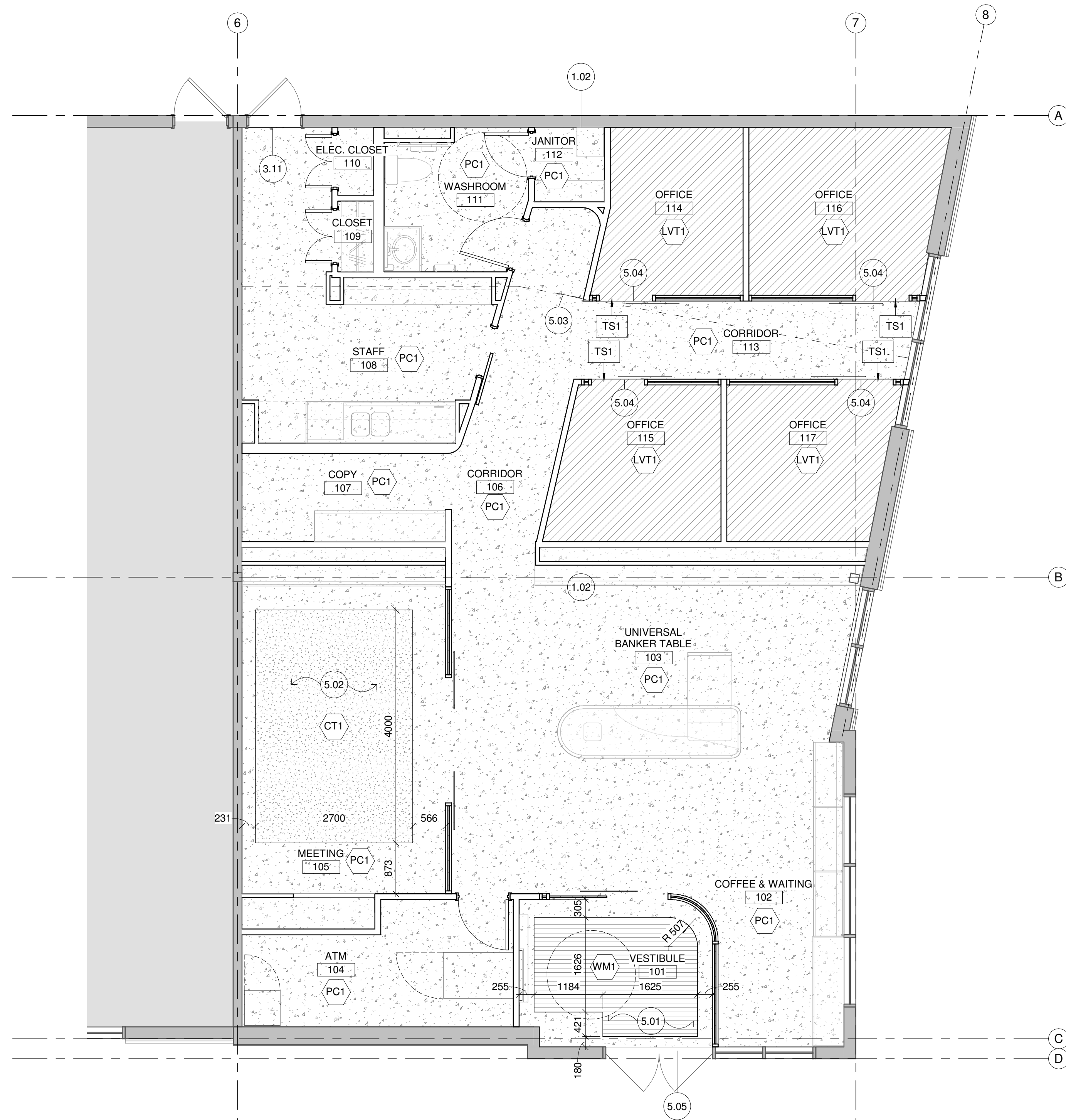
TAG	TYPE	SPECIFICATIONS
CT1	AREA RUG	MANUFACTURER: EGE MODEL: IRON BROWN PRODUCT NUMBER: RF55001039 QUALITY: HIGHLINE 1100 BACKING: WT - WOVEN TEXTILE EDGING: NYLON SERGED EDING TO MATCH OTHER: PROVIDING SEAMING LOCATIONS AND DIAGRAM TO DESIGNER FOR APPROVAL.
LVT1	LUXURY VINYL TILE	MANUFACTURER: SHAW CONTRACT COLLECTION: STRATUM EVT STYLE: STRATUM 500 023UV COLOUR: OCONEE WALNUT 00507 DIMENSIONS: 12.5CM W x 122CM L x 8MM THICK INSTALLATION: ASHLAR COMMENTS:
PC1	POLISHED CONCRETE	MANUFACTURER: TBD NOTES: DEEP CUT WITH 800 DIAMOND GRIT FINISH.
TS1	TRANSITION STRIP	MANUFACTURER: SHLUTER MODEL: RENO-U COLOUR: AT SATIN NICKEL ANODIZED ALUMINUM SIZE: 8MM SITE VERIFY NOTES: CONCRETE TO LVT
TS2	TRANSITION STRIP	RESERVED.
WM1	WALK-OFF MAT	MANUFACTURER: EDGEWOOD MATTING MODEL: DEBRIS TRAP TILE COLOUR: #25 GREY OTHER: INCLUDE ALUMINUM MAT DIVIDERS

**FLOOR FINISH PLAN GENERAL NOTES:**

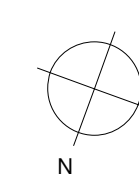
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF LEVELING ALL FLOOR FINISHES.
2. GENERAL CONTRACTOR TO SUBMIT A SAMPLE OF EACH FINISH TO DESIGNER / ARCHITECT PRIOR TO ORDERING.
3. NO SUBSTITUTE WILL BE ACCEPTED WITHOUT DESIGNER / ARCHITECT APPROVAL.
4. OMISSIONS, CONTRADICTIONS OR ERRORS IN THE PLANS MUST BE REPORTED TO DESIGNER / ARCHITECT PRIOR TO SUBMITTING TENDER.

**FLOOR FINISHES PLAN KEYNOTES**

- # KEYNOTE
- 5.01 WM1 TO BE INSET INTO AND SAME LEVEL AS PC1.
- 5.02 PROVIDE PC1 UNDER CT1.
- 5.03 LINE DENOTES EXTENT OF EXISTING CONCRETE SLAB. EXTEND SLAB TO BE LEVEL WITH EXISTING AND PREPARE FOR POLISHING.
- 5.04 FEATHER LVT1 24" WHERE TS1 IS.
- 5.05 REMOVE EXISTING TRANSITION STRIP PRIOR TO CONCRETE POLISHING. SALVAGE AND REINSTALL.



**1 FLOOR FINISH PLAN - LEVEL 1**  
A-121 1:50



**CONSULTANTS**

Mechanical:



Electrical:



**SEALS**

**NOT FOR CONSTRUCTION**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

ISSUE: 4

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4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

No.	Date	Description

SCALE: As indicated

DRAWN BY: RAC/AMK

CHECKED BY/OA: JO AK

PROJECT NO: 19-02

**DRAWING CONTENTS**

**WALL FINISH PLAN**

SHEET NUMBER

**A-131**

**WALL FINISH PLAN LEGEND:**

- HATCHED AREA INDICATES NOT IN SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR EXCEPTIONS.
- FRP1 GLAZING FILM
- GF1 GLAZING FILM
- GL1 GLAZING
- GL2 GLAZING
- MT2 METAL FINISH
- PLT1 PLASTER FINISH
- PLT2 PLASTER FINISH
- PT1 FIELD PAINT
- PT2 ACCENT PAINT
- RB1 RUBBER WALL BASE
- RB2 RUBBER WALL BASE
- SS2 STONE SURFACE
- VW1 VINYL WALL COVERING
- WP1 WALL PROFILE
- WT1 WALL TILE
- WV1 WOOD VENEER

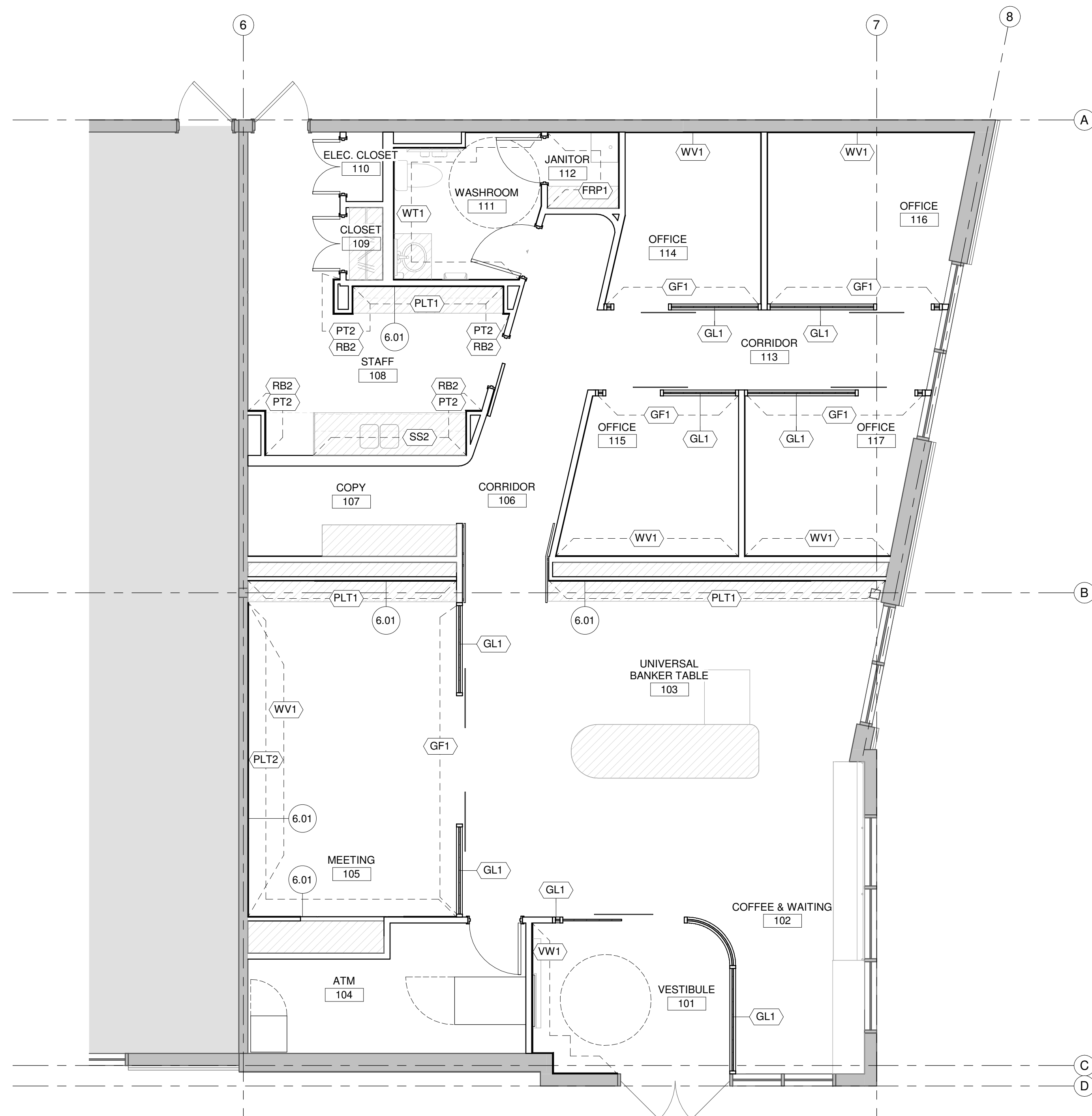
NOTE: PROVIDE SHOP DRAWINGS / SAMPLES PER SPECIFICATIONS.

**WALL FINISH PLAN GENERAL NOTES:**

- REPAIR & LEVEL GYPSUM SURFACES IN ORDER TO RECEIVE NEW FINISHES.
- GYPSUM SURFACES MUST HAVE A COAT OF PRIMER.
- PAINTED GYPSUM WALLS ARE TO HAVE THREE (3) OR MORE FINISHING COATS OF PAINT.
- PAINT TWO (2) WALLS OF EACH COLOUR FOR VERIFICATION & APPROVAL BY DESIGNER / ARCHITECT.
- GENERAL CONTRACTOR TO SUBMIT A SAMPLE OF EACH FINISH TO DESIGNER / ARCHITECT PRIOR TO ORDERING.
- NO SUBSTITUTE WILL BE ACCEPTED WITHOUT CONSULTANT APPROVAL PRIOR TO ORDERING.
- OMISSIONS, CONTRADICTIONS OR ERRORS IN THE PLANS MUST BE REPORTED TO DESIGNER / ARCHITECT PRIOR TO SUBMITTING TENDER.
- PROVIDE RB1 RUBBER WALLBASE THOROUGHOUT UNLESS NOTED OTHERWISE.

**WALL FINISHES PLAN KEYNOTES**

- # KEYNOTE
- 6.01 PROVIDE LEVEL 5 FINISH.



**1** WALL FINISH PLAN - LEVEL 1  
A-131 1:50

**CONSULTANTS**

Mechanical:



Electrical:



SEALS

NOT FOR CONSTRUCTION

**FURNITURE / EQUIPMENT PLAN LEGEND:**

HATCHED AREA INDICATES NOT IN SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR EXCEPTIONS.

**FURNITURE / EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
A	ATM	MANUFACTURER: DIEBOLD NIXDORF MODEL: CS7750 FULL FUNCTION TERMINAL DIMENSIONS: 930mm H x 864mm W x 1280mm D OWNER SUPPLIED, CONTRACTOR INSTALLED	1
B	WALL MOUNTED 75" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	1
C	PRINTER	* CLIENT SUPPLIED	1
D	REFRIGERATOR	MANUFACTURER: SAMSUNG MODEL: RF18HFENBSG DIMENSIONS: 32 1/8"W x 70 1/8"H x 30 1/2"D FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
E	DISHWASHER	MANUFACTURER: BOSCH MODEL: SHSM63W56N DIMENSIONS: 23 9/16"W x 23 3/4"D x 33 7/8"H FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
F	MICROWAVE	MANUFACTURER: LG MODEL: LMC1575SB DIMENSIONS: 21 7/16"W x 12 1/8"H x 17"D FINISH: SMOOTH BLACK * CONTRACTOR SUPPLIED AND INSTALLED.	1
G	DOUBLE SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
H	WALL MOUNTED 30" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	4
J	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
K	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
L	GARBAGE RECYCLE BIN	MANUFACTURER: RICHELIEU MODEL: 53WC2150SCDM213 DIMENSIONS: 14 3/4" W x 22 7/8"H x 22 1/4"D * CONTRACTOR SUPPLIED AND INSTALLED.	1
M	MOUNTAIN FRESH WATER FILTRATION SYSTEM	* REFER TO MECHANICAL DRAWINGS FOR DETAILS.	1

**WASHROOM EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
1	WASHROOM SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
2	ANGLED L-SHAPED GRAB BAR	MANUFACTURER: FROST PRODUCT NUMBER: 1002-SP 1 1/4" DIAMETER SIZE: 24"x24" FINISH: STAINLESS STEEL, PEENED	1
3	WASHROOM MIRROR	MANUFACTURER: CRATE AND BARREL MODEL: EDGE BRUSHED NICKEL ROUNDED RECTANGULAR MIRROR FINISH: BRUSHED NICKEL SIZE: 36"Wx1"Dx24"H	1
5	JANITOR SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
6	FLOOR MOUNTED TOILET	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
7	TOILET PAPER DISPENSER	MANUFACTURER: MOEN MODEL: YB0409BN DIMENSIONS: 3.94" X 2.36" X 6.79" FINISH: BRUSHED NICKEL	1
8	NAPKIN - TAMPON DISPOSAL	MANUFACTURER: BOBRICK MODEL: B-270 DIMENSIONS: 190 x 255 x 95mm FINISH: SATIN STAINLESS STEEL	1
9	CONCEALED PAPER TOWEL DISPENSER W/ WASTE BIN	MANUFACTURER: BOBRICK MODEL: B-43944 DIMENSIONS: 56-1/4" X 17-7/16" X 5" FINISH: STAINLESS STEEL	1
10	SOAP DISPENSER	MANUFACTURER: MOEN MODEL: 3942 SERIES FINISH: MATTE BLACK FINISH: REFER TO MANUFACTURER SPECIFICATIONS FOR CRITICAL DIMENSIONS.	1
11	COAT HOOK	MANUFACTURER: TBD MODEL: TBD DIMENSIONS: TBD FINISH: TBD	1

**FURNITURE / EQUIPMENT PLAN GENERAL NOTES:**

- ALL EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR U.N.O.
- FURNITURE IS SUPPLIED AND INSTALLED BY OTHERS, SHOWN FOR INFORMATION ONLY. REFER TO FURNITURE VENDOR DRAWINGS FOR INFORMATION. COORDINATE DELIVERY AND INSTALLATION IN CONJUNCTION WITH CONSTRUCTION SCHEDULE.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL ITEMS.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL ITEMS.
- PROVIDE FIRE RESISTANT PLYWOOD BACKING IN WALL STRUCTURE TO ACCOMMODATE WALL MOUNTED EQUIPMENT, ACCESSORIES, MIRRORS, AND MILLWORK AS REQUIRED THROUGHOUT.
- COORDINATE MILLWORK SHOP DRAWINGS WITH OWNER SUPPLIED EQUIPMENT.

**FURNITURE / EQUIPMENT PLAN KEYNOTES**

# KEYNOTE

**NOTES**

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**PROJECT TITLE**

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Unit 110  
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T4P 2Z9

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CHECKED BY/OA: JO AK

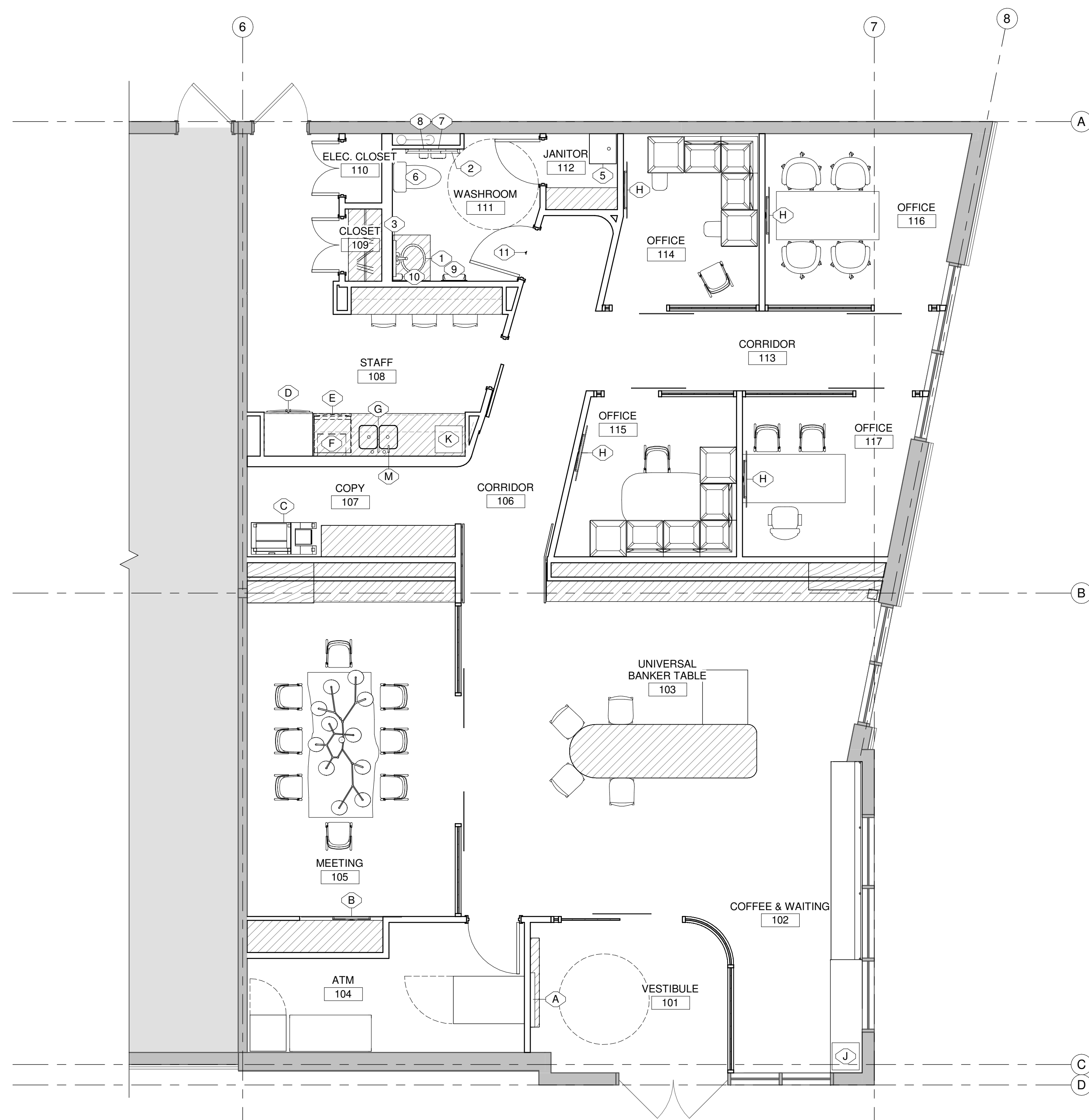
PROJECT NO: 19-02

**DRAWING CONTENTS**

**FURNITURE / EQUIPMENT PLAN**

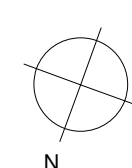
SHEET NUMBER

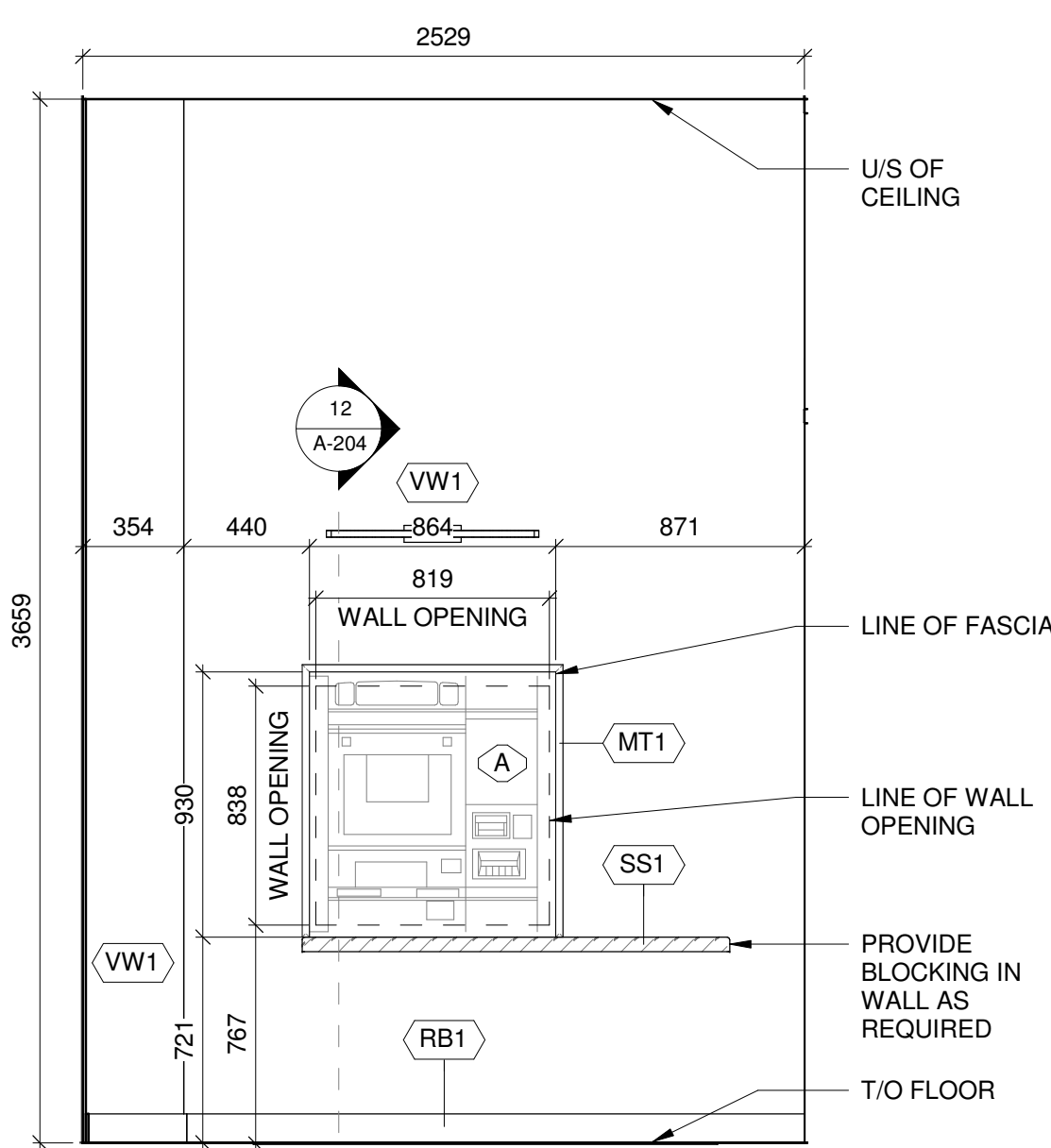
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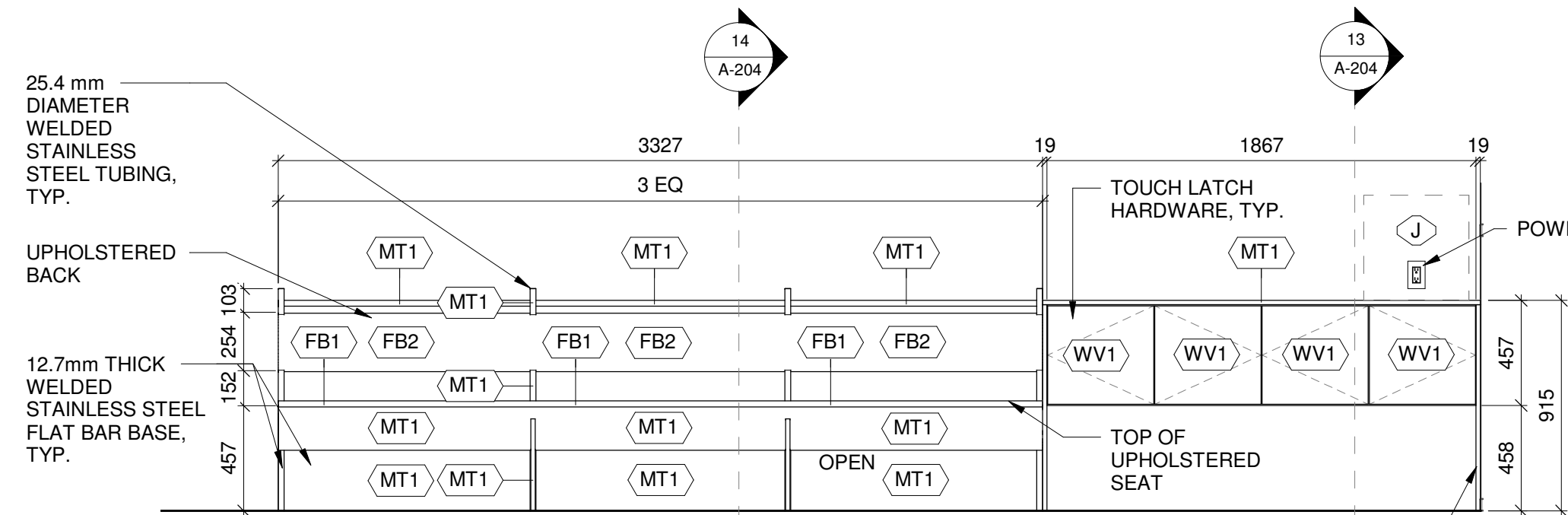
**1 FURNITURE / EQUIPMENT PLAN - LEVEL 1**  
A-141

1 : 50

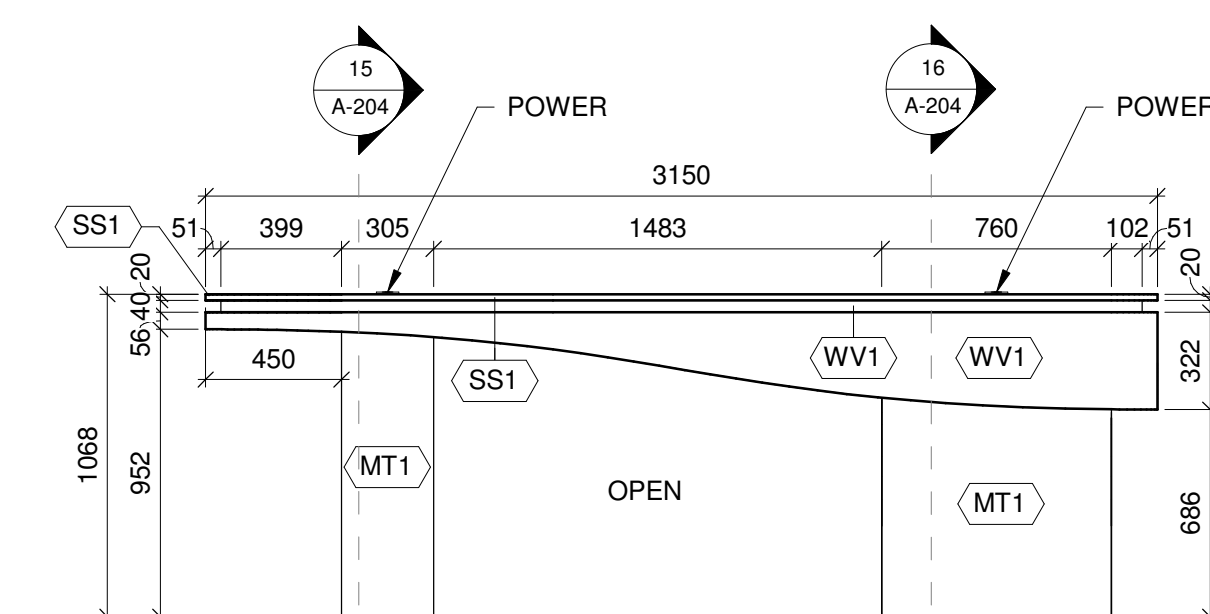




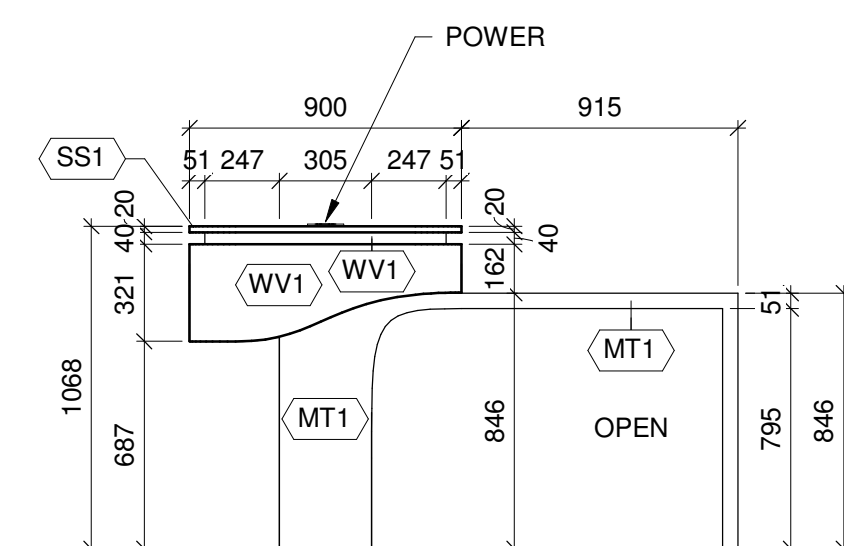
**1 INTERIOR ELEVATION - ATM**  
A-201 ROOM 101 1 : 25



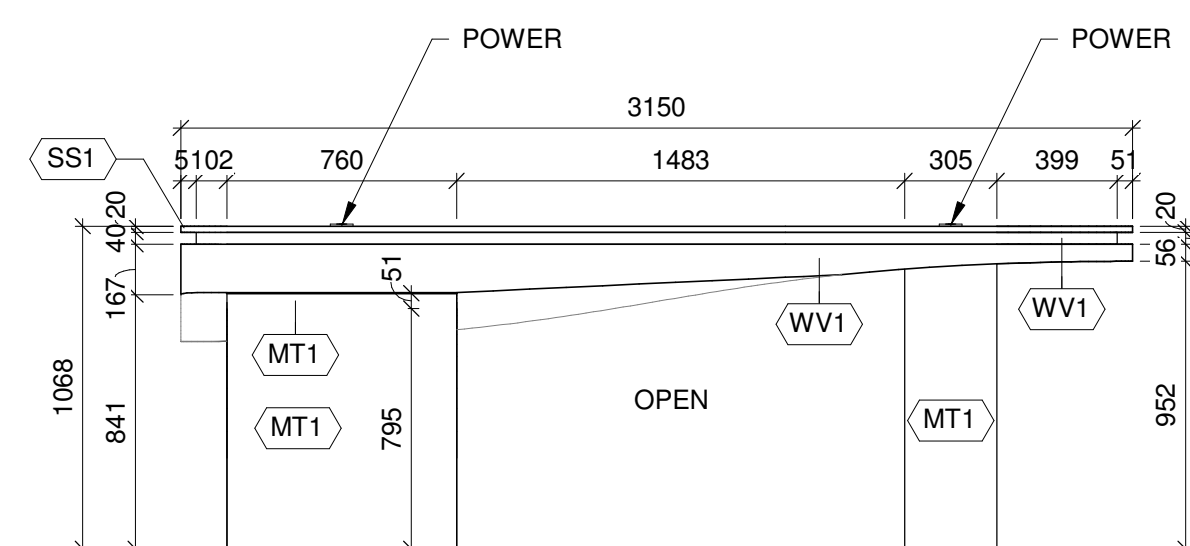
**2 INTERIOR ELEVATION - COFFEE & WAITING**  
A-201 ROOM 102 1 : 25



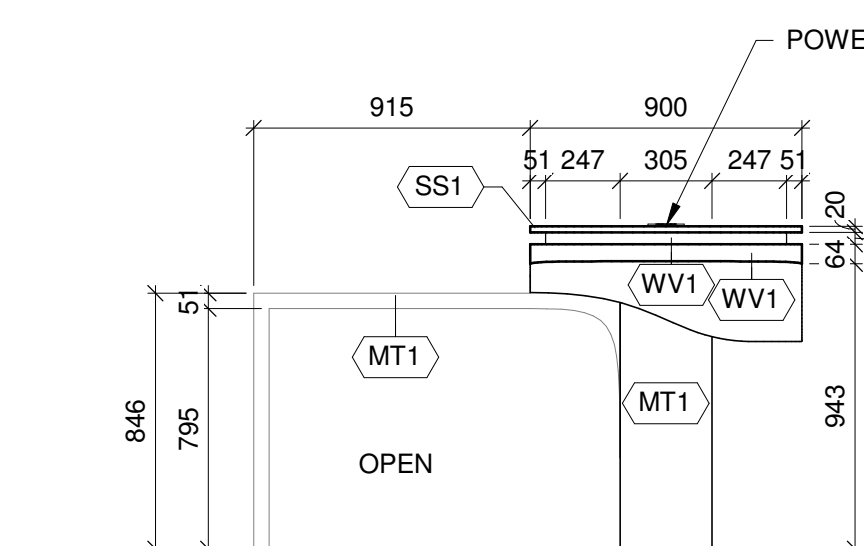
**3 MILLWORK ELEVATION - UBT**  
A-201 ROOM 103 1 : 25



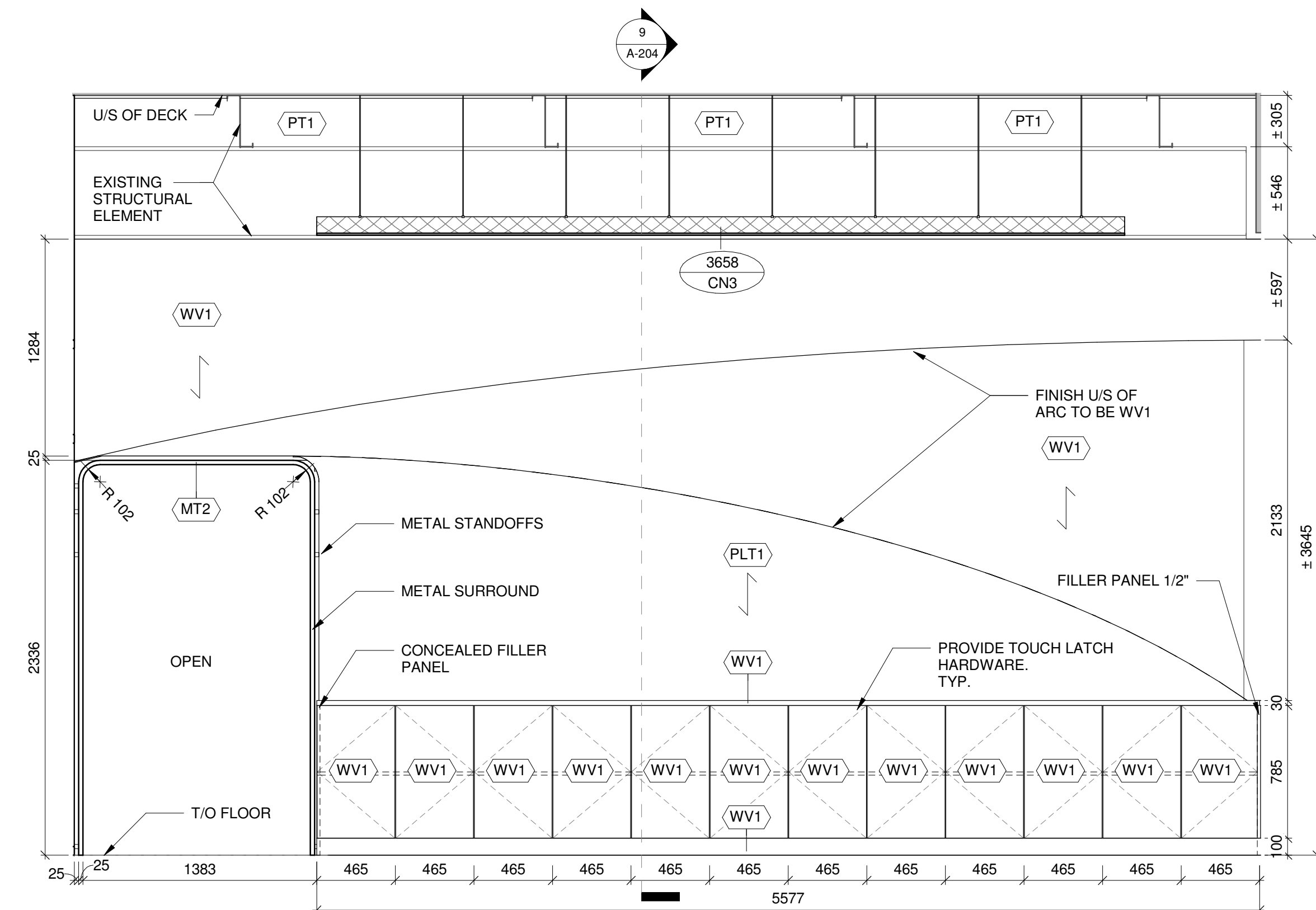
**4 MILLWORK ELEVATION - UBT**  
A-201 ROOM 103 1 : 25



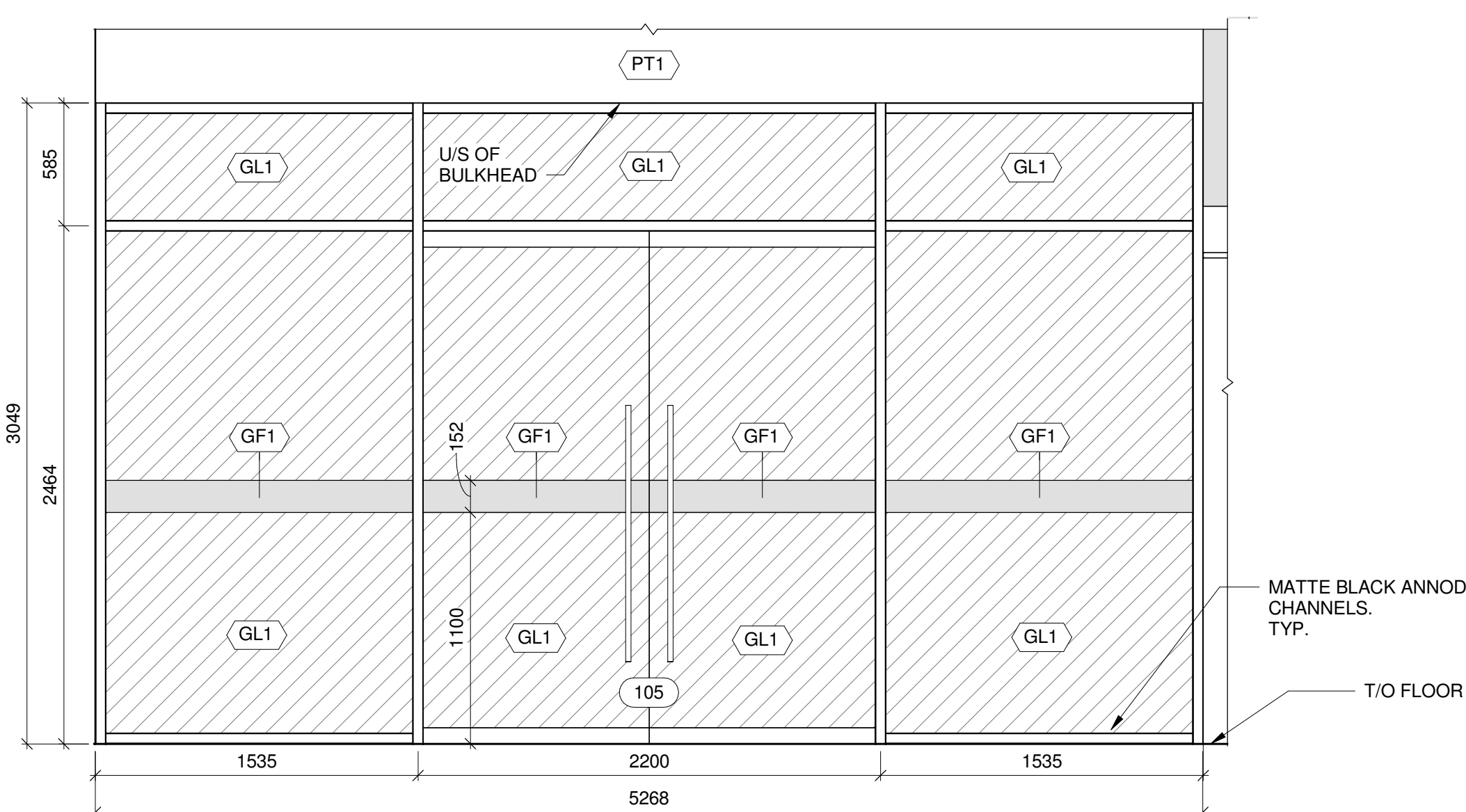
**5 MILLWORK ELEVATION - UBT**  
A-201 ROOM 103 1 : 25



**6 MILLWORK ELEVATION - UBT**  
A-201 ROOM 103 1 : 25



**7 INTERIOR ELEVATION - UBT**  
A-201 ROOM 103 1 : 25



**8 INTERIOR ELEVATION - MEETING**  
A-201 ROOM 105 1 : 25

**FURNITURE / EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
A	ATM	MANUFACTURER: DIEBOLD NIXDORF MODEL: CS750 FULL FUNCTION TERMINAL DIMENSIONS: 930mm H x 864mm W x 1280mm D OWNER SUPPLIED, CONTRACTOR INSTALLED	1
B	WALL MOUNTED 75" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	1
C	PRINTER	* CLIENT SUPPLIED	1
D	REFRIGERATOR	MANUFACTURER: SAMSUNG MODEL: RF18HFENBSG DIMENSIONS: 32 1/8"W x 70 1/8"H x 30 1/2"D FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
E	DISHWASHER	MANUFACTURER: BOSCH MODEL: SHSM63W56N DIMENSIONS: 23 9/16"W x 23 3/4"D x 33 7/8"H FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
F	MICROWAVE	MANUFACTURER: LG MODEL: LMC157559 DIMENSIONS: 21 7/16"W x 12 1/8"H x 17"D FINISH: SMOOTH BLACK * CONTRACTOR SUPPLIED AND INSTALLED.	1
G	DOUBLE SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
H	WALL MOUNTED 30" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	4
J	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
K	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
L	GARBAGE RECYCLE BIN	MANUFACTURER: RICHELIEU MODEL: 53WC2150SCDM213 DIMENSIONS: 14 3/4" W x 22 7/8" H x 22 1/4" D * CONTRACTOR SUPPLIED AND INSTALLED.	1
M	MOUNTAIN FRESH WATER FILTRATION SYSTEM	* REFER TO MECHANICAL DRAWINGS FOR DETAILS.	1

**WASHROOM EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
1	WASHROOM SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
2	ANGLED L-SHAPED GRAB BAR	MANUFACTURER: FROST PRODUCT NUMBER: 1002-SP 1 1/4" DIAMETER SIZE: 24"x24" FINISH: STAINLESS STEEL, PEENED	1
3	WASHROOM MIRROR	MANUFACTURER: CRATE AND BARREL MODEL: EDGE BRUSHED NICKEL ROUNDED RECTANGULAR MIRROR FINISH: BRUSHED NICKEL SIZE: 36"W x 1"D x 24"H	1
5	JANITOR SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
6	FLOOR MOUNTED TOILET	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
7	TOILET PAPER DISPENSER	MANUFACTURER: MOEN MODEL: YB0409BN DIMENSIONS: 3.94" X 2.36" X 6.79" FINISH: BRUSHED NICKEL	1
8	NAPKIN - TAMPON DISPOSAL	MANUFACTURER: BOBRICK MODEL: B-270 DIMENSIONS: 190 x 255 x 95mm FINISH: SATIN STAINLESS STEEL	1
9	CONCEALED PAPER TOWEL DISPENSER W/ WASTE BIN	MANUFACTURER: BOBRICK MODEL: B-4394 DIMENSIONS: 56-1/4" X 17-7/16" X 5" FINISH: STAINLESS STEEL	1
10	SOAP DISPENSER	MANUFACTURER: MOEN MODEL: 3942 SERIES FINISH: MATT BLACK FINISH: REFER TO MANUFACTURER SPECIFICATIONS FOR CRITICAL DIMENSIONS.	1
11	COAT HOOK	MANUFACTURER: TBD MODEL: TBD DIMENSIONS: TBD FINISH: TBD	1

**WALL FINISH LEGEND**

TAG	TYPE
FRP1	FIBERGLASS REINFORCED PLASTIC
GF1	GLAZING FILM
GL1	ARCHITECTURAL GLASS
GL2	ARCHITECTURAL GLASS
MT2	METAL FINISH
PLT1	PLASTER FINISH
PLT2	PLASTER FINISH
PT1	FIELD PAINT
PT2	ACCENT PAINT
RB1	RUBBER WALL BASE
RB2	RUBBER WALL BASE
SS2	STONE SURFACE
WV1	VINYL WALL GRAPHIC
WP1	WALL PROFILE
WT1	WALL TILE
WV1	WOOD VENEER

**MILLWORK FINISH LEGEND**

TAG	TYPE
FB1	FABRIC
FB2	FABRIC
H1	HARDWARE
LF1	LACOEUR FINISH
MT1	METAL FINISH
PL1	PLASTIC LAMINATE
SS1	STONE SURFACE
SS2	STONE SURFACE
WV1	WOOD VENEER

**MILLWORK GENERAL NOTES:**

- SEE MILLWORK GENERAL NOTES & MILLWORK HARDWARE NOTES ON THE "A0." SERIES OF DRAWINGS.
- FOR FINISHES SPECIFICATIONS, SEE MATERIAL LIST ON DRAWING "A0." SERIES OF DRAWINGS.
- FOR SPECIFICATIONS ON RELATED MECHANICAL ITEMS REFER TO MECHANICAL DRAWINGS.
- FOR SPECIFICATIONS ON RELATED ELECTRICAL ITEMS REFER TO ELECTRICAL DRAWINGS.

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Lemay + Toker is a trade name owned and used by  
Toker + Associates Architecture Industrial Design Ltd.

**CONSULTANTS**  
Mechanical:  
**AME Group**  
consulting mechanical engineers

Electrical:  
**AES**

**SEALS**

**NOT FOR CONSTRUCTION**

- NOTES**
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  - Contractor to comply with all building codes, regulations, and ordinances of authorities having jurisdiction.
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**PROJECT TITLE**  
**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE:** 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

**SCALE:** As indicated

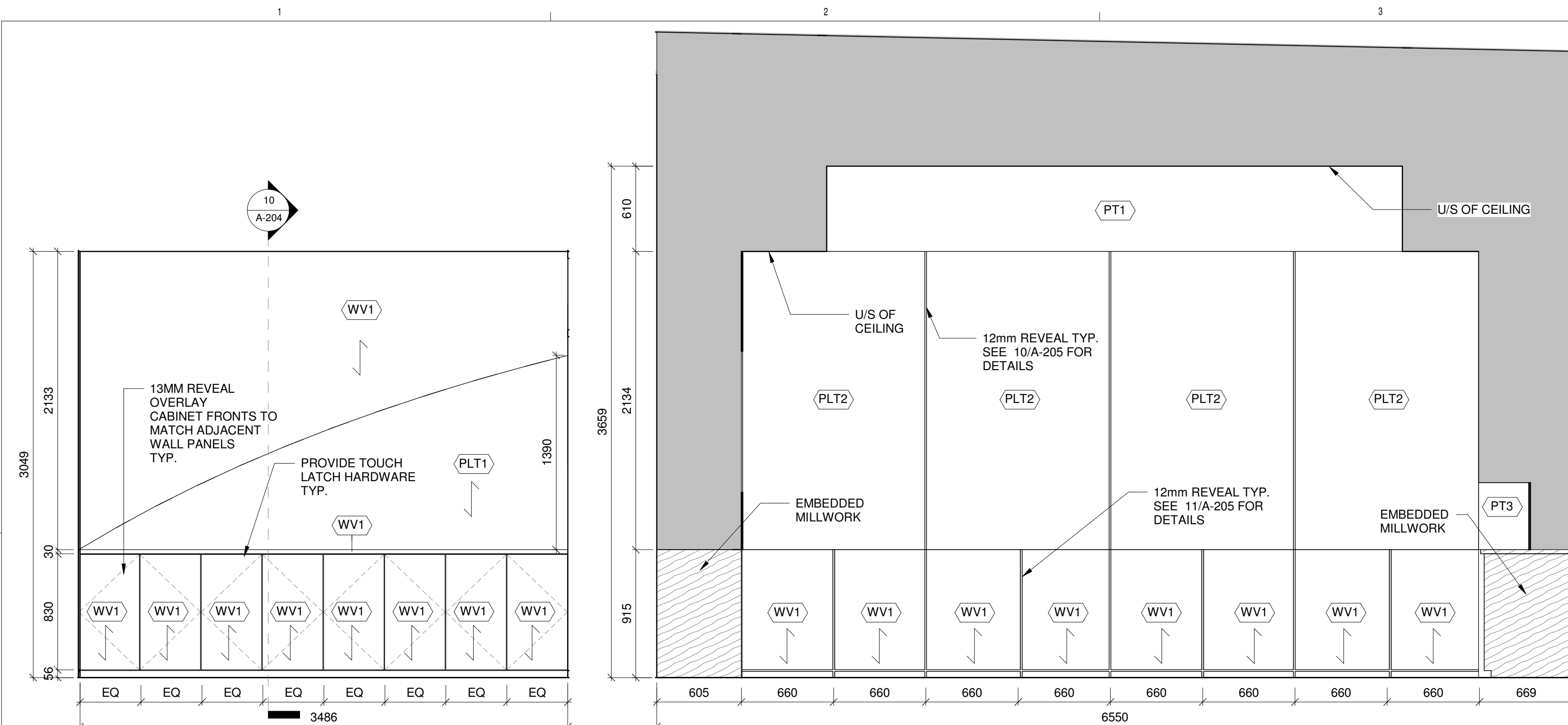
**DRAWN BY:** RAC/AMK

**CHECKED BY/OA:** JO AK

**PROJECT NO:** 19-02

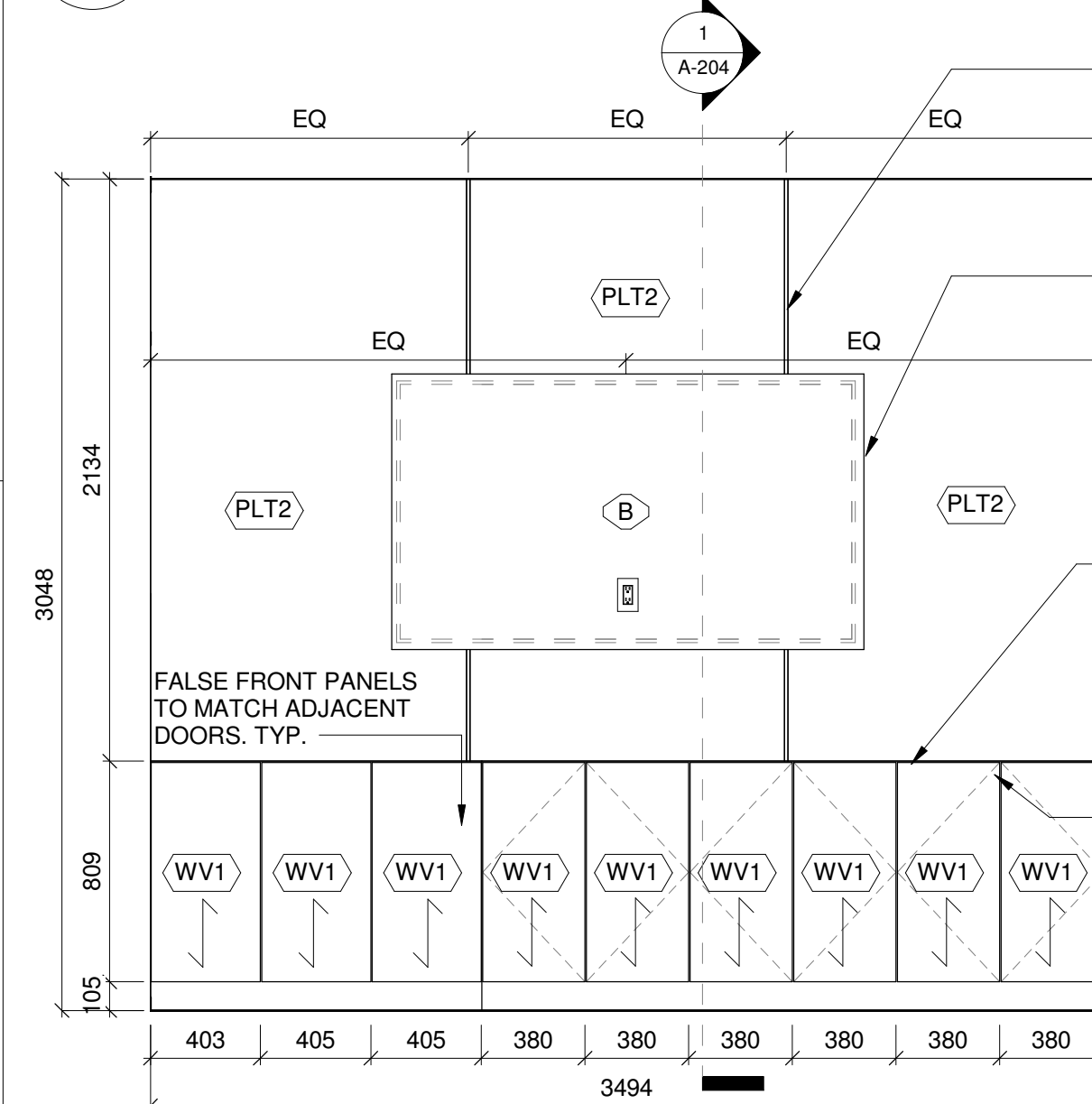
**DRAWING CONTENTS**

**INTERIOR ELEVATIONS**

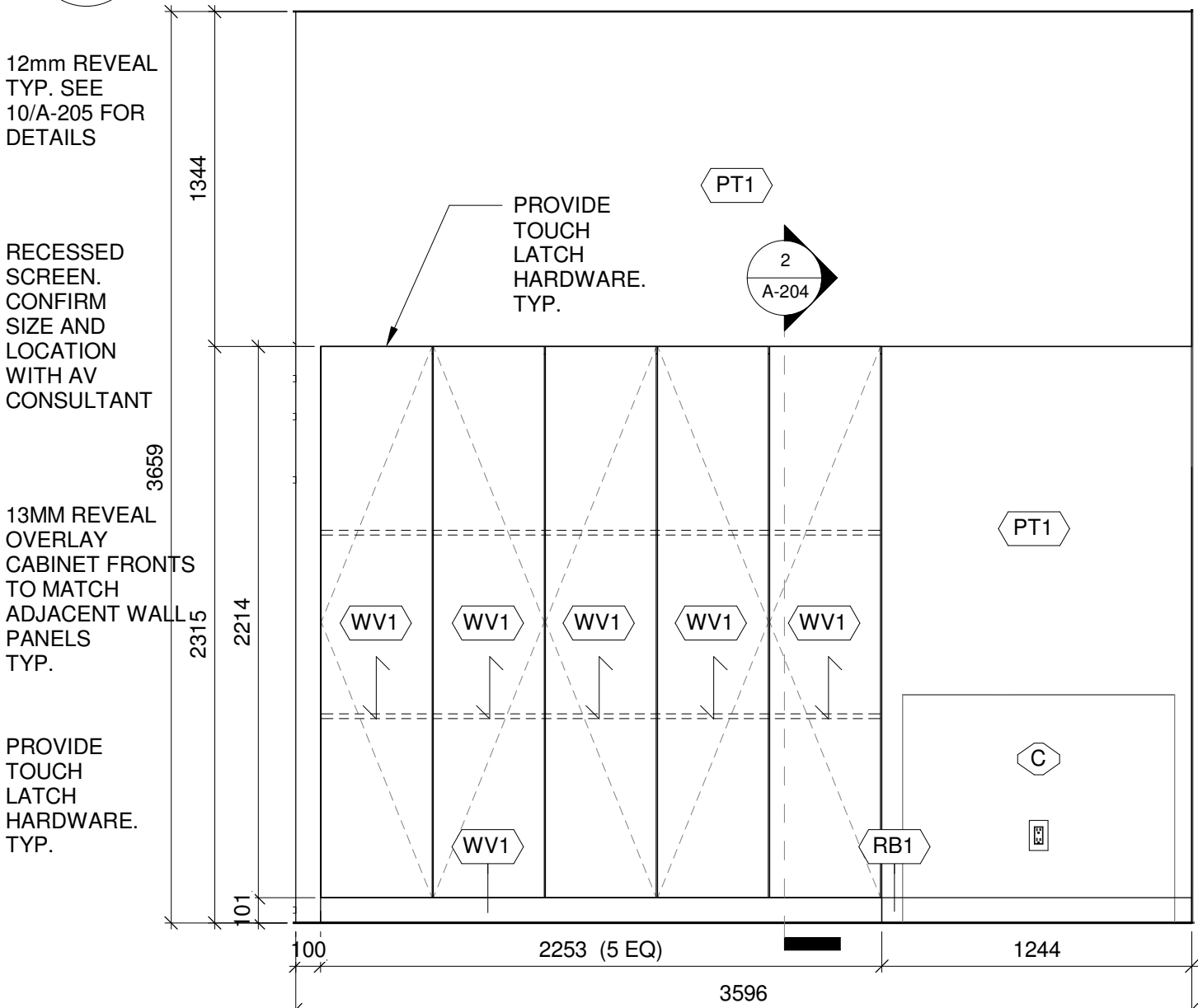


**1 INTERIOR ELEVATION - MEETING**  
A-202 ROOM 105 1 : 25

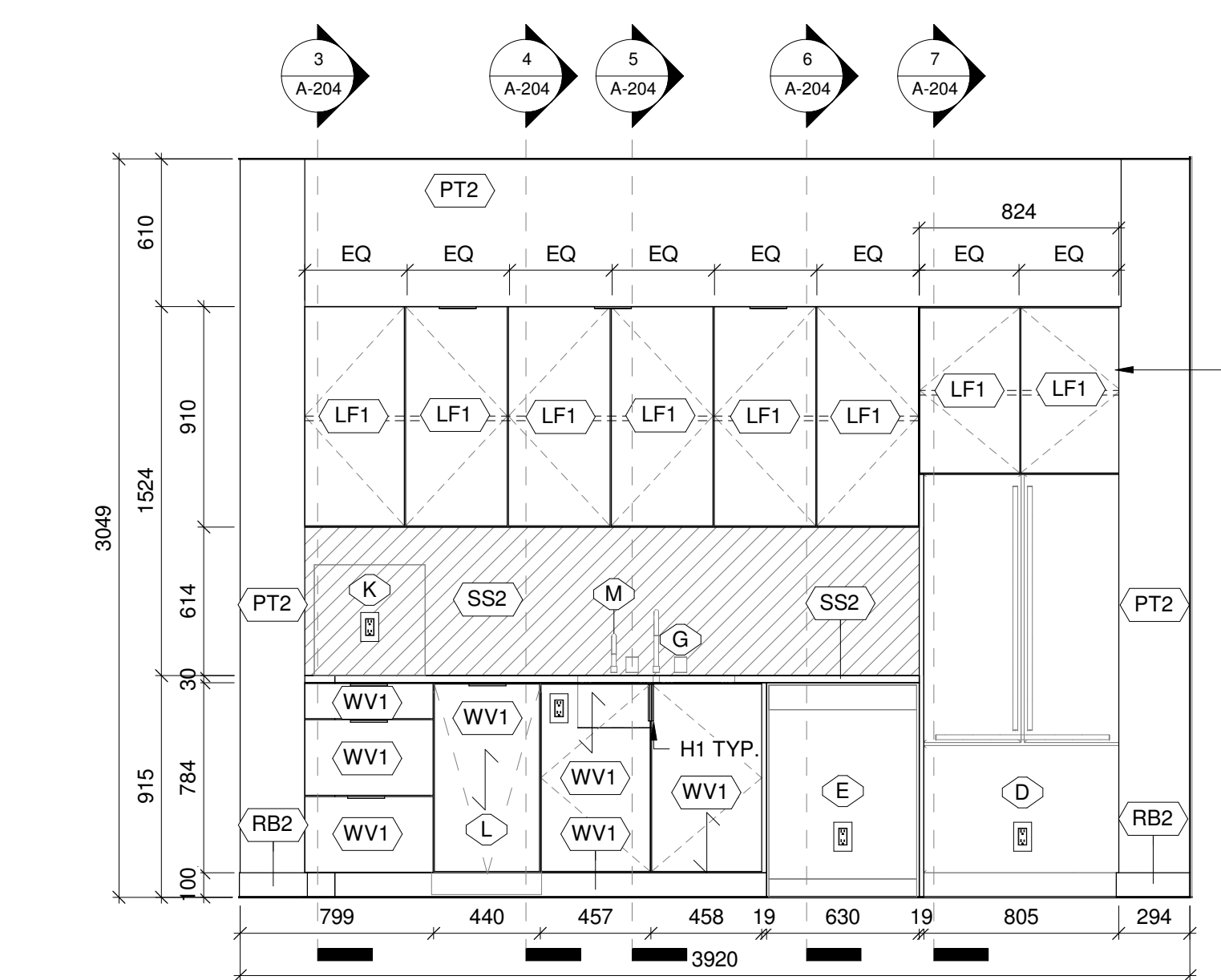
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A-202 ROOM 105 1 : 25



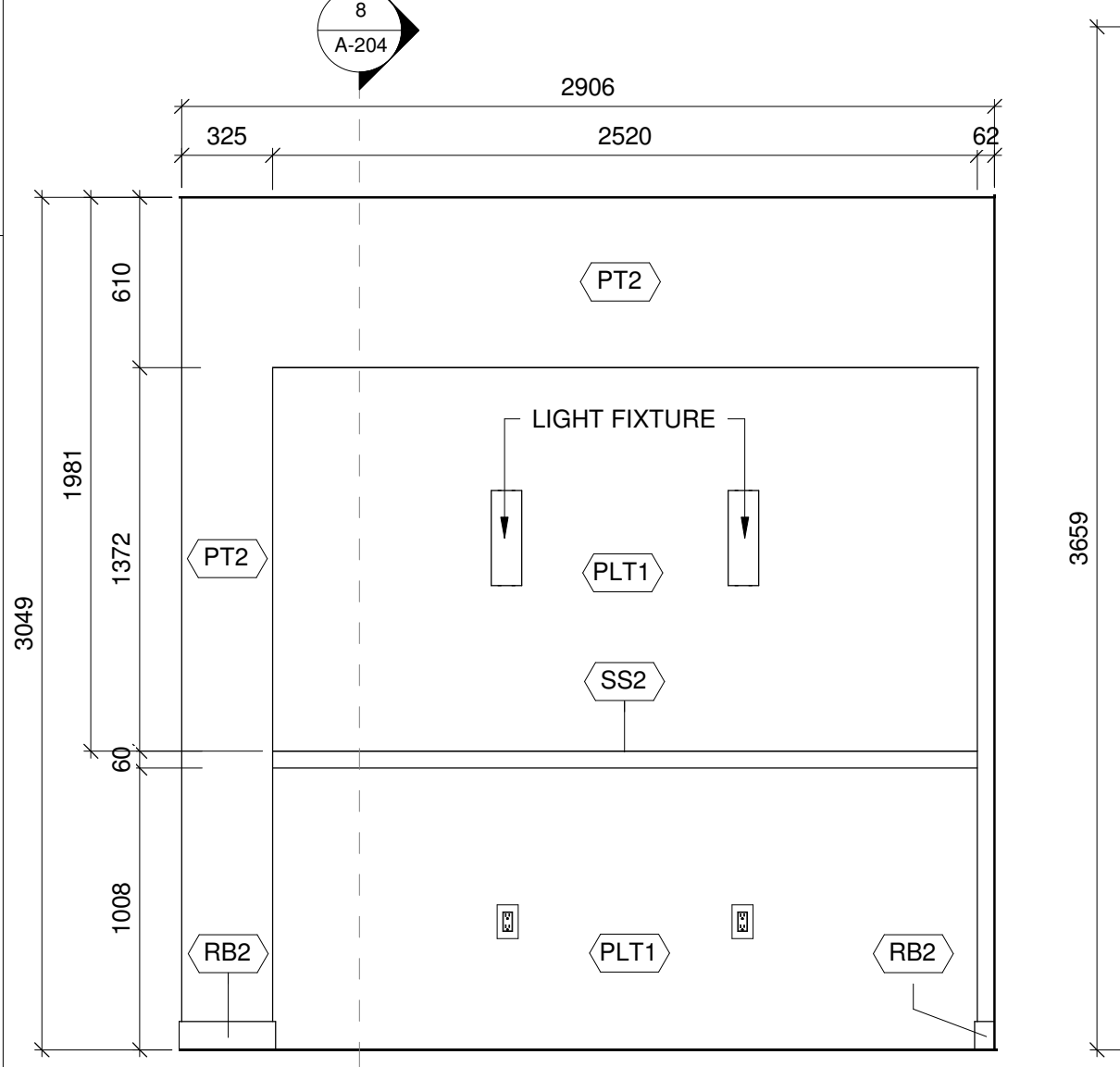
**3 INTERIOR ELEVATION - MEETING**  
A-202 ROOM 105 1 : 25



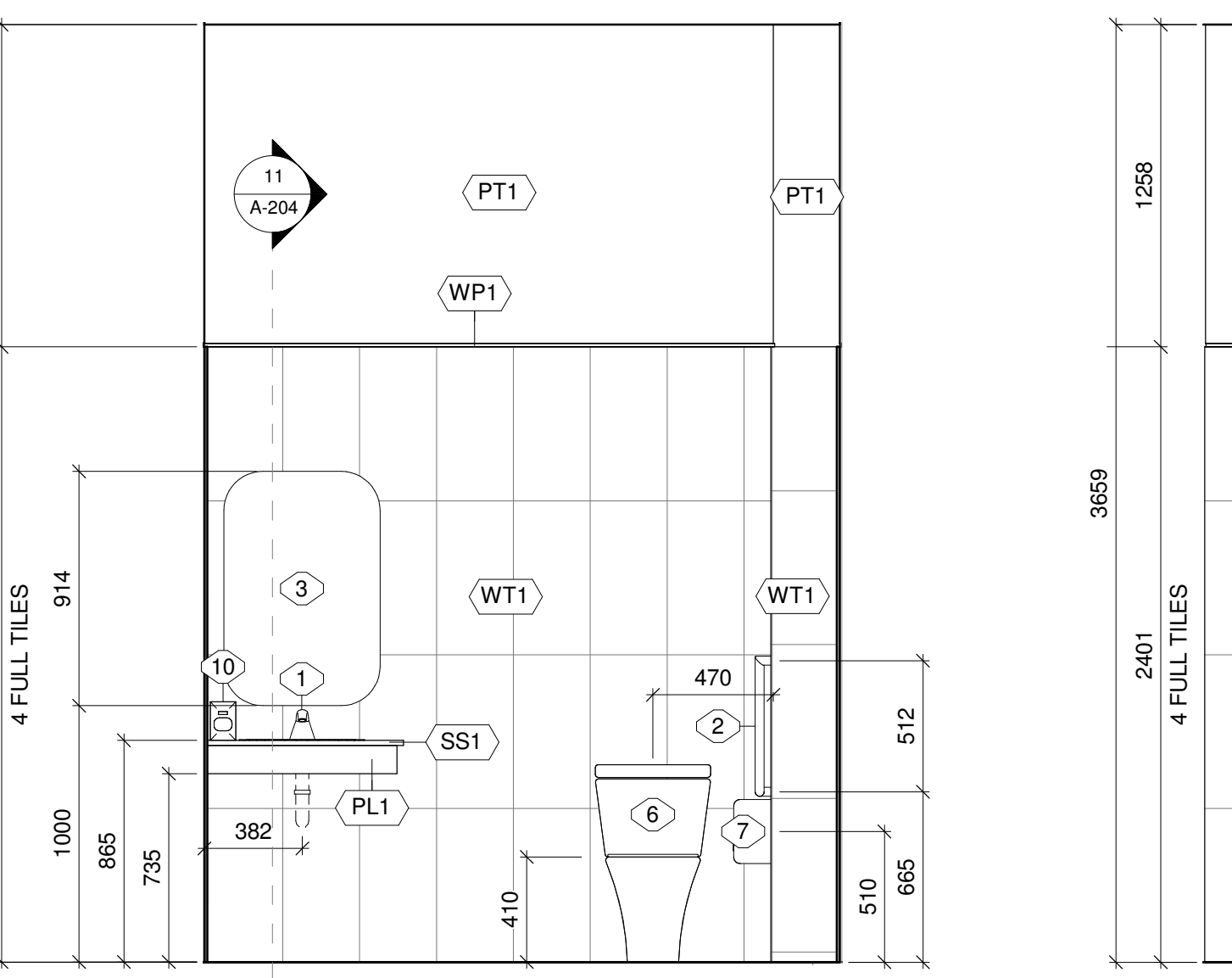
**4 INTERIOR ELEVATION - COPY**  
A-202 ROOM 107 1 : 25



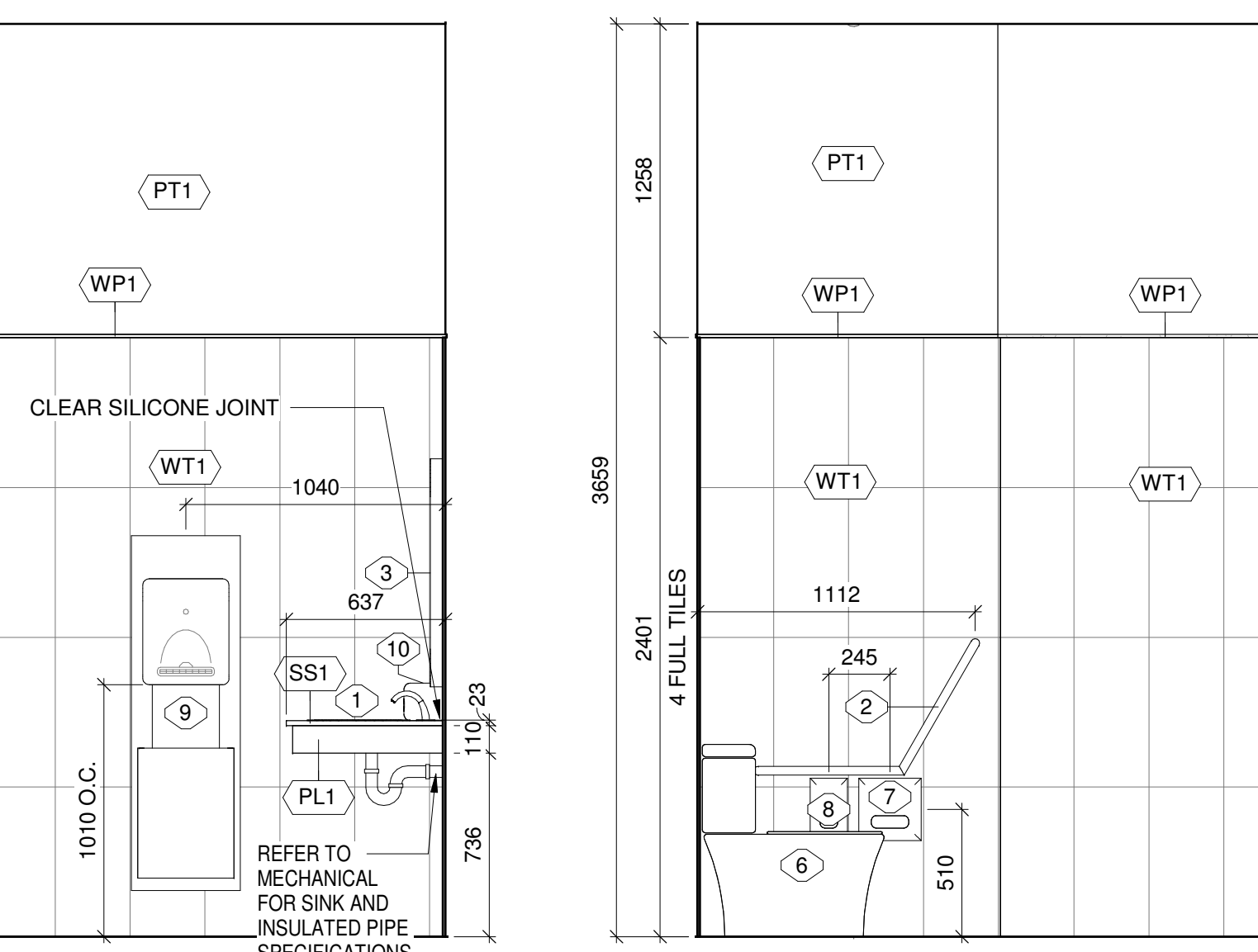
**5 INTERIOR ELEVATION - STAFF**  
A-202 ROOM 108 1 : 25



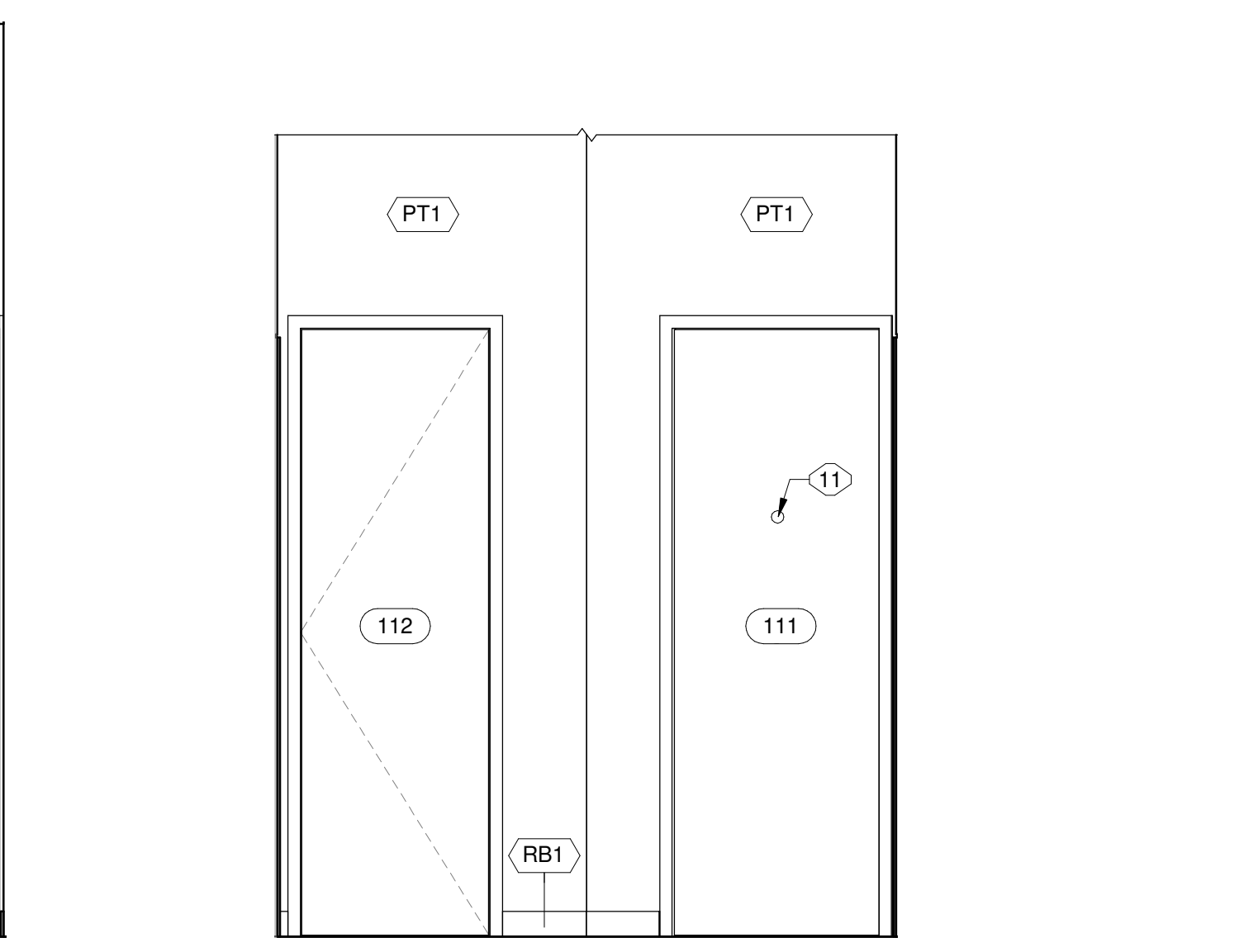
**6 INTERIOR ELEVATION - STAFF**  
A-202 ROOM 108 1 : 25



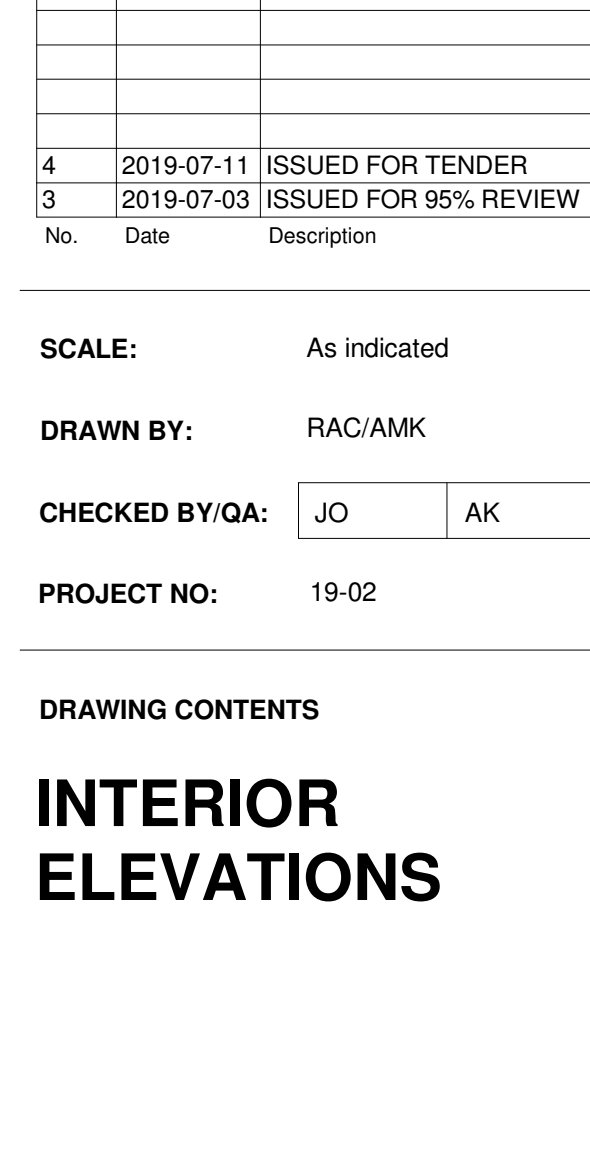
**7 INTERIOR ELEVATION - WASHROOM**  
A-202 ROOM 111 1 : 25



**8 INTERIOR ELEVATION - WASHROOM**  
A-202 ROOM 111 1 : 25



**9 INTERIOR ELEVATION - WASHROOM**  
A-202 ROOM 111 1 : 25



**10 INTERIOR ELEVATION - WASHROOM**  
A-202 ROOM 111 1 : 25

**WALL FINISH LEGEND**

TAG	TYPE
FRP1	FIBERGLASS REINFORCED PLASTIC
GF1	GLAZING FILM
GL1	ARCHITECTURAL GLASS
GL2	ARCHITECTURAL GLASS
MT2	METAL FINISH
PLT1	PLASTER FINISH
PLT2	PLASTER FINISH
PT1	FIELD PAINT
PT2	ACCENT PAINT
RB1	RUBBER WALL BASE
RB2	RUBBER WALL BASE
SS2	STONE SURFACE
WV1	VINYL WALL GRAPHIC
WP1	WALL PROFILE
WT1	WALL TILE
WV1	WOOD VENEER

**MILLWORK FINISH LEGEND**

TAG	TYPE
FB1	FABRIC
FB2	FABRIC
H1	HARDWARE
LF1	LACQUEUR FINISH
MT1	METAL FINISH
PL	PLASTIC LAMINATE
SS1	STONE SURFACE
SS2	STONE SURFACE
WV1	WOOD VENEER

**FURNITURE / EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
A	ATM	MANUFACTURER: DIEBOLD NIXDORF MODEL: CS750 FULL FUNCTION TERMINAL DIMENSIONS: 930mm H x 864mm W x 1280mm D OWNER SUPPLIED, CONTRACTOR INSTALLED	1
B	WALL MOUNTED 75" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	1
C	PRINTER	* CLIENT SUPPLIED	1
D	REFRIGERATOR	MANUFACTURER: SAMSUNG MODEL: RF18HFENBSG DIMENSIONS: 32 1/8"W x 70 1/8"H x 30 1/2"D FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
E	DISHWASHER	MANUFACTURER: BOSCH MODEL: SHSM63W56N DIMENSIONS: 23 9/16"W x 23 3/4"D x 33 7/8"H FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
F	MICROWAVE	MANUFACTURER: LG MODEL: LMC15759S DIMENSIONS: 21 7/16"W x 12 1/8"H x 17"D FINISH: SMOOTH BLACK * CONTRACTOR SUPPLIED AND INSTALLED.	1
G	DOUBLE SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
H	WALL MOUNTED 30" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	4
J	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
K	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
L	GARBAGE RECYCLE BIN	MANUFACTURER: RICHELIEU MODEL: 53WC2150SCDM213 DIMENSIONS: 14 3/4" W x 22 7/8"H x 22 1/4"D * CONTRACTOR SUPPLIED AND INSTALLED.	1
M	MOUNTAIN FRESH WATER FILTRATION SYSTEM	* REFER TO MECHANICAL DRAWINGS FOR DETAILS.	1

**WASHROOM EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
1	WASHROOM SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
2	ANGLED L-SHAPED GRAB BAR	MANUFACTURER: FROST PRODUCT NUMBER: 1002-SP 1 1/4" DIAMETER SIZE: 24"x24" FINISH: STAINLESS STEEL, PEENED	1
3	WASHROOM MIRROR	MANUFACTURER: CRATE AND BARREL MODEL: EDGE BRUSHED NICKEL ROUNDED RECTANGULAR MIRROR FINISH: BRUSHED NICKEL SIZE: 36"Wx1"Dx24"H	1
5	JANITOR SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
6	FLOOR MOUNTED TOILET	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
7	TOILET PAPER DISPENSER	MANUFACTURER: MOEN MODEL: YB0409B DIMENSIONS: 3.94" X 2.36" X 6.79" FINISH: BRUSHED NICKEL	1
8	NAPKIN - TAMPON DISPOSAL	MANUFACTURER: BOBRICK MODEL: B-270 DIMENSIONS: 190 x 255 x 95mm FINISH: SATIN STAINLESS STEEL	1
9	CONCEALED PAPER TOWEL DISPENSER W/ WASTE BIN	MANUFACTURER: BOBRICK MODEL: B-4394 DIMENSIONS: 56-1/4" X 17-7/16" X 5" FINISH: STAINLESS STEEL	1
10	SOAP DISPENSER	MANUFACTURER: MOEN MODEL: 3942 SERIES FINISH: MATTE BLACK FINISH: REFER TO MANUFACTURER SPECIFICATIONS FOR CRITICAL DIMENSIONS.	1
11	COAT HOOK	MANUFACTURER: TBD MODEL: TBD FINISH: TBD	1

**MILLWORK GENERAL NOTES:**

- SEE MILLWORK GENERAL NOTES & MILLWORK HARDWARE NOTES ON THE "A0." SERIES OF DRAWINGS.
- FOR FINISHES SPECIFICATIONS, SEE MATERIAL LIST ON DRAWING "A0." SERIES OF DRAWINGS.
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**PROJECT TITLE**  
**CONNECT FIRST - RED DEER INTERIOR RENO**

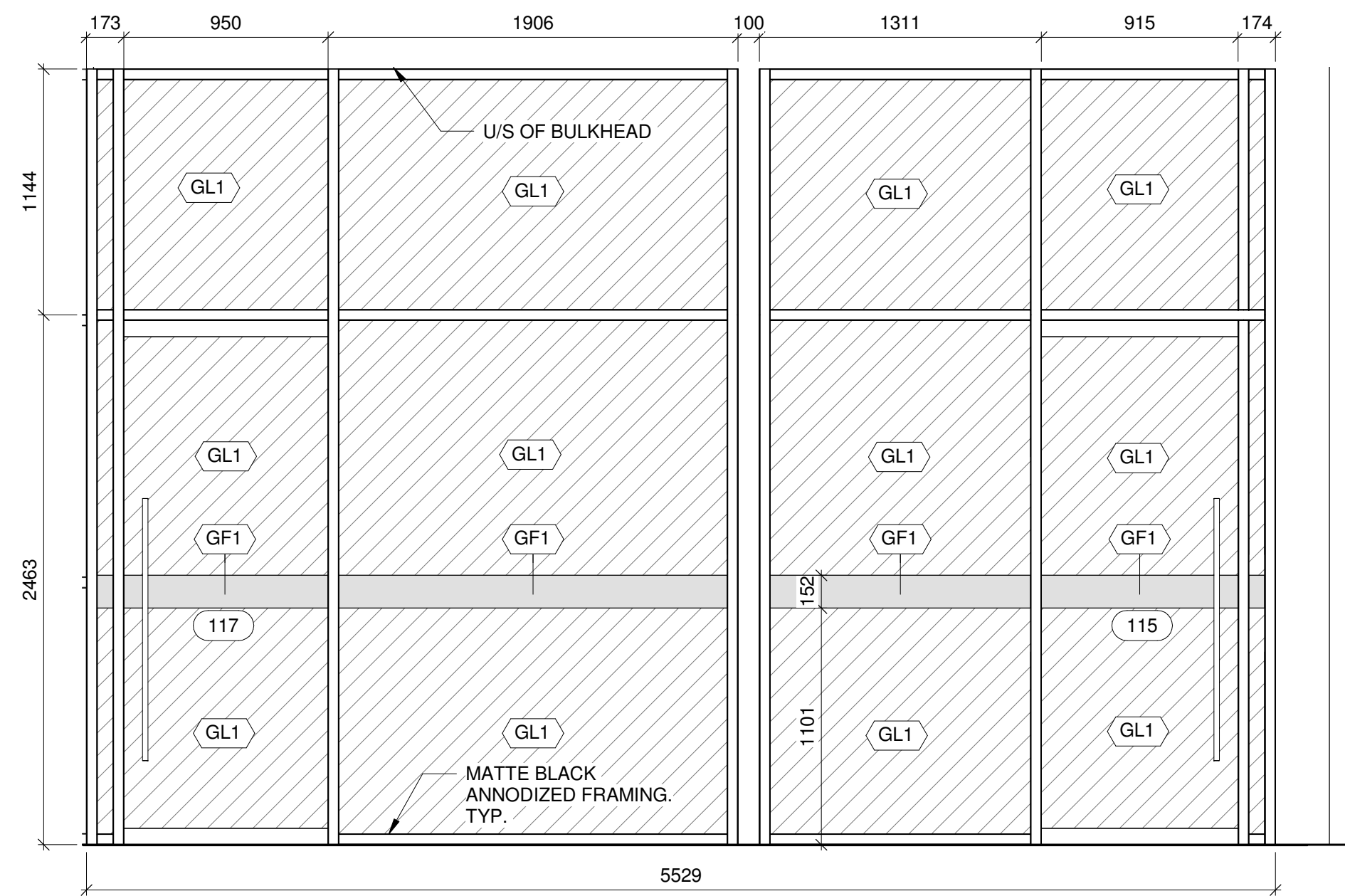
Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE:** 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

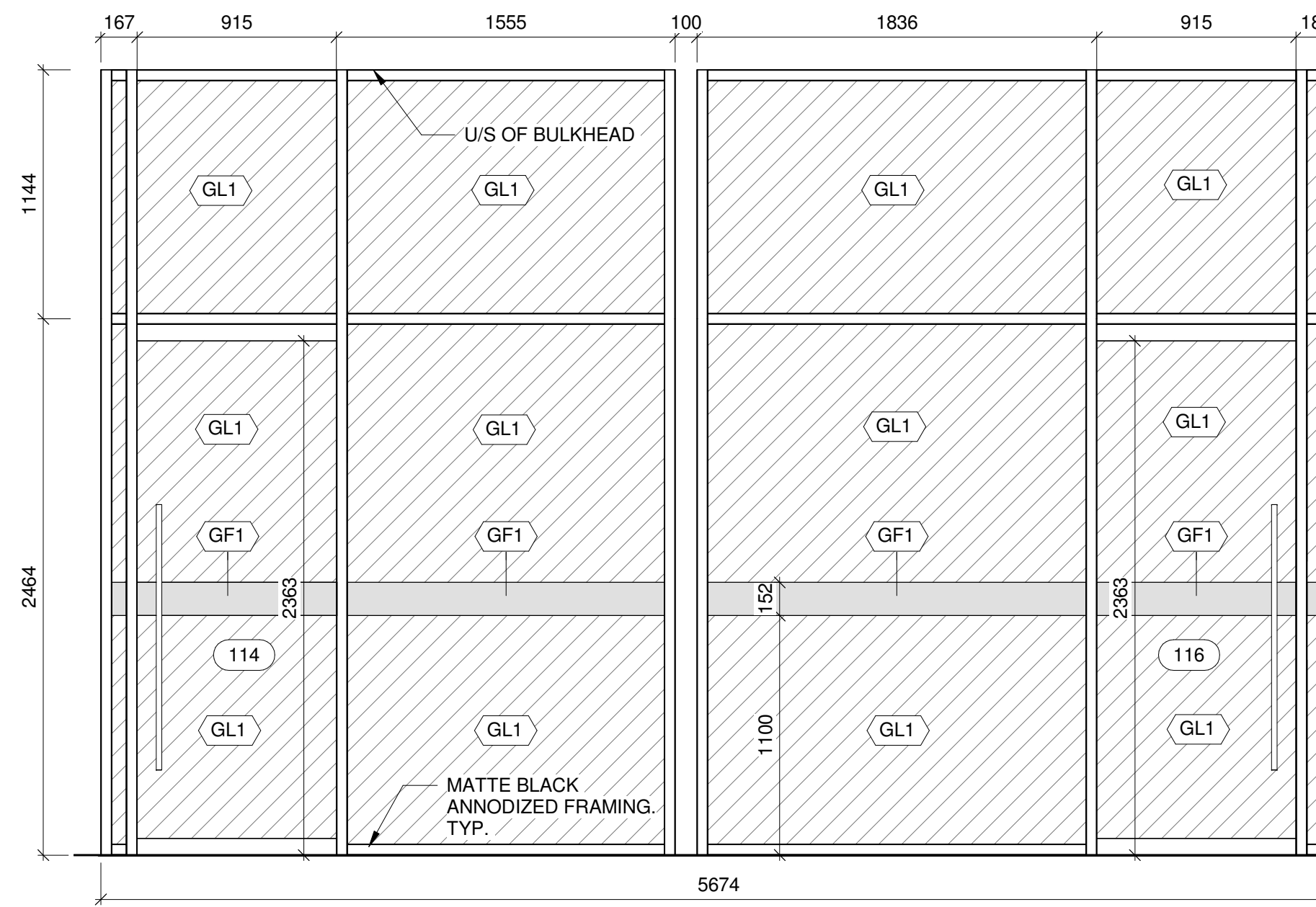
**SCALE:** As indicated  
**DRAWN BY:** RAC/AMK  
**CHECKED BY/OA:** JO AK  
**PROJECT NO:** 19-02

**DRAWING CONTENTS**  
**INTERIOR ELEVATIONS**



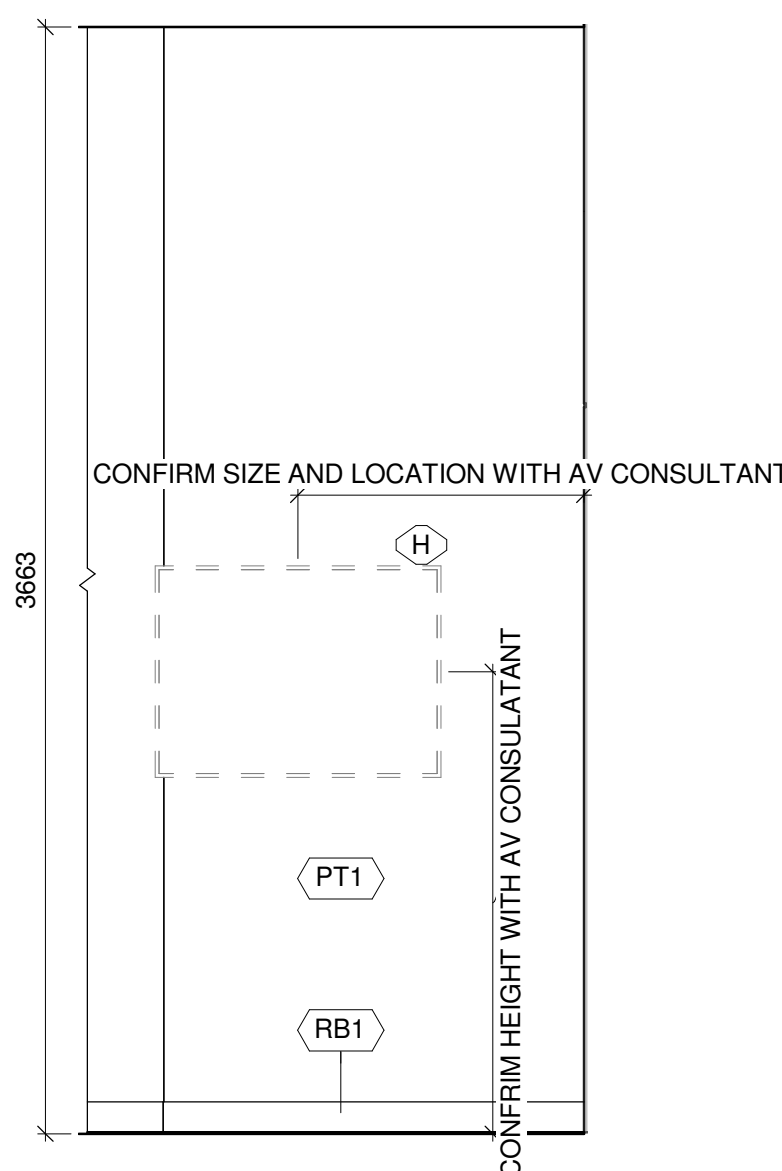
**1 INTERIOR ELEVATION - CORRIDOR**  
A-203 ROOM 113 1 : 25

\* SITE VERIFY HEIGHT OF GLAZING PANES TO MATCH EXISTING EXTERIOR GLAZING AND MULLIONS.

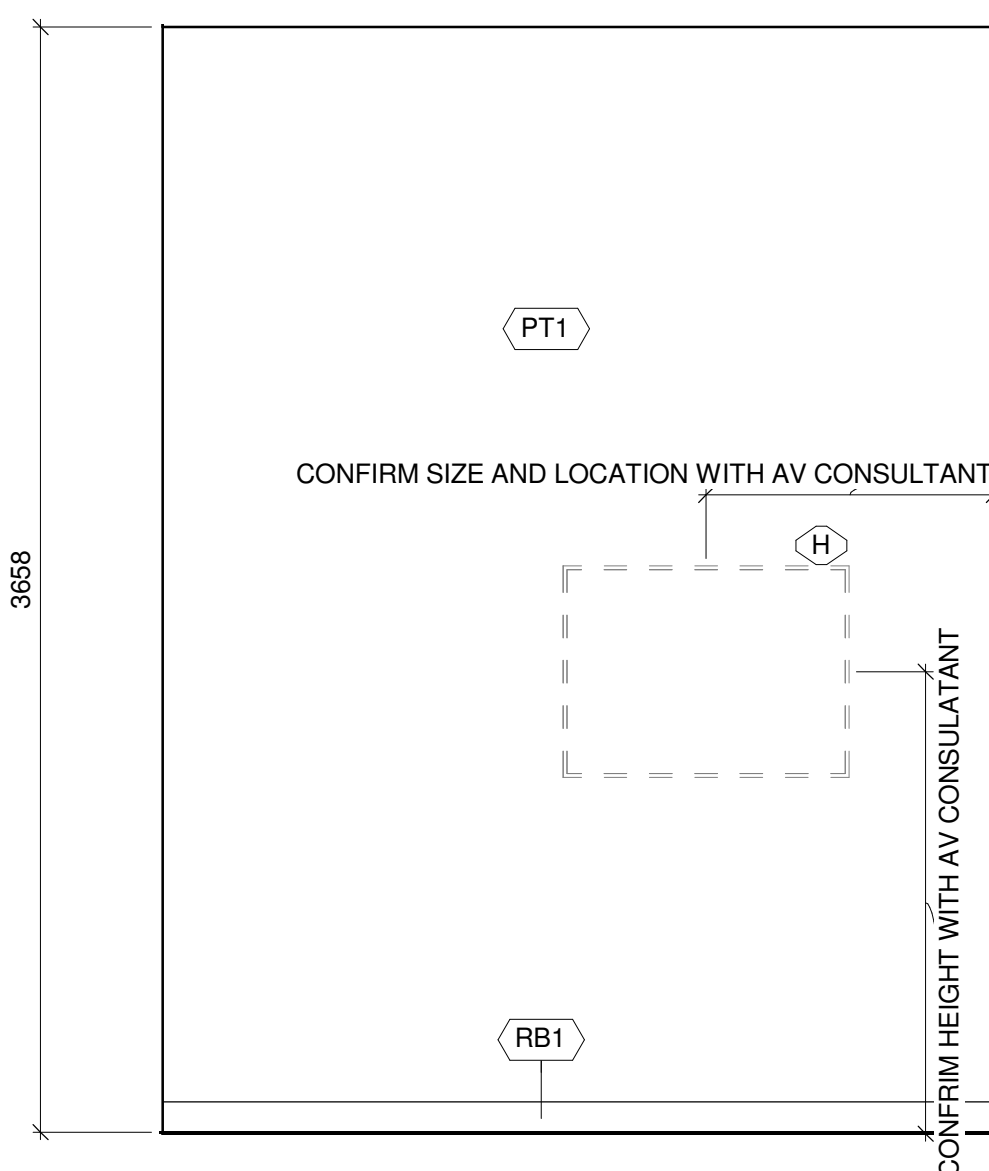


**2 INTERIOR ELEVATION - CORRIDOR**  
A-203 ROOM 113 1 : 25

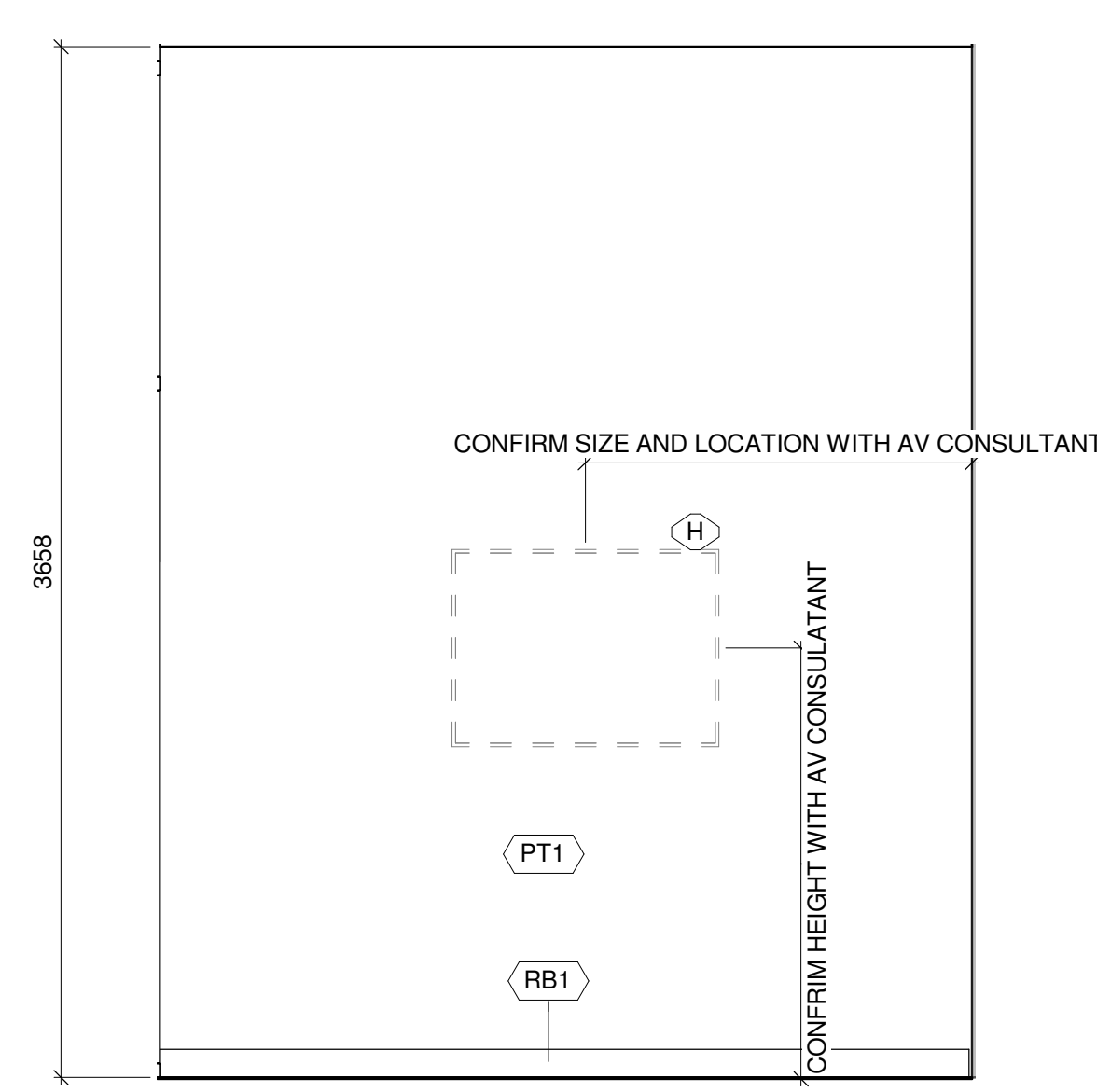
\* SITE VERIFY HEIGHT OF GLAZING PANES TO MATCH EXISTING EXTERIOR GLAZING AND MULLIONS.



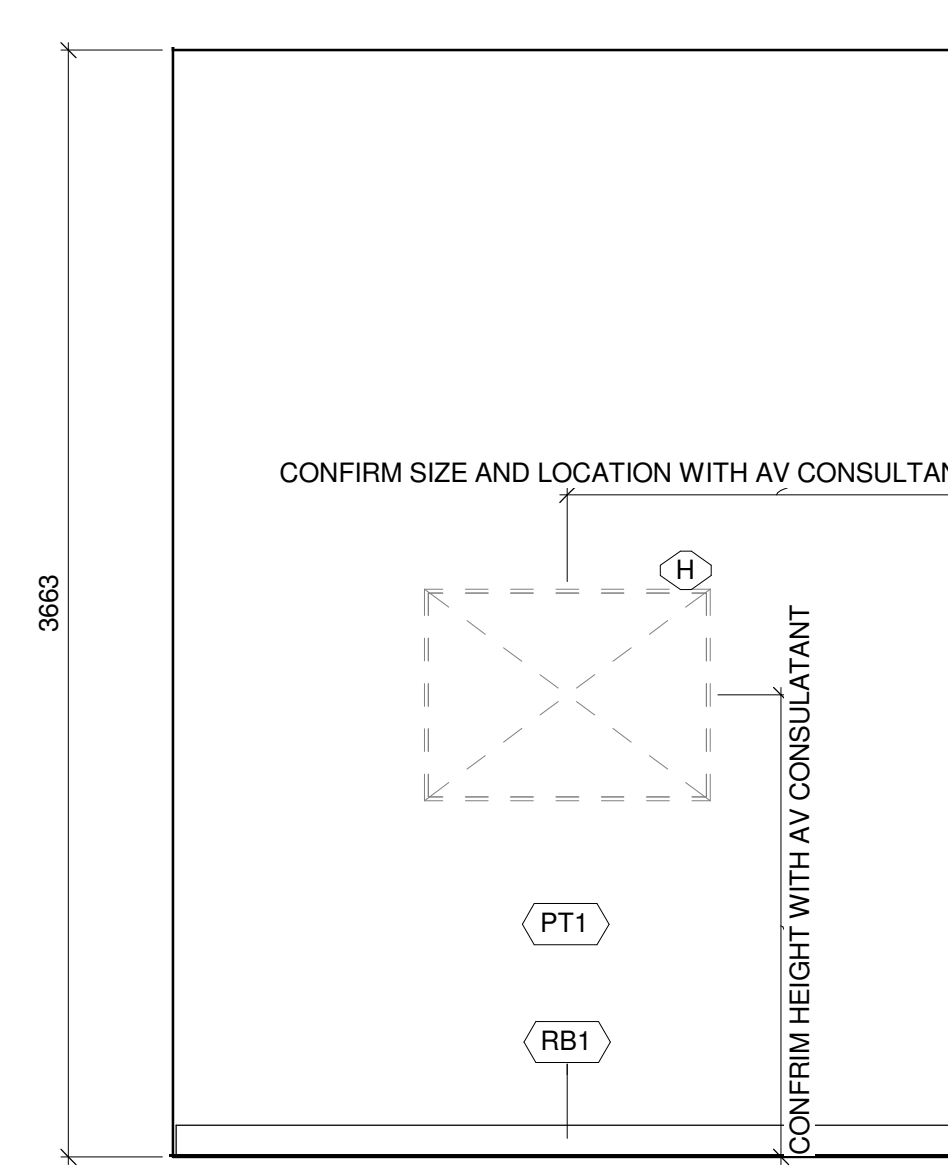
**3 INTERIOR ELEVATION - OFFICE 114 1**  
A-203 1 : 25



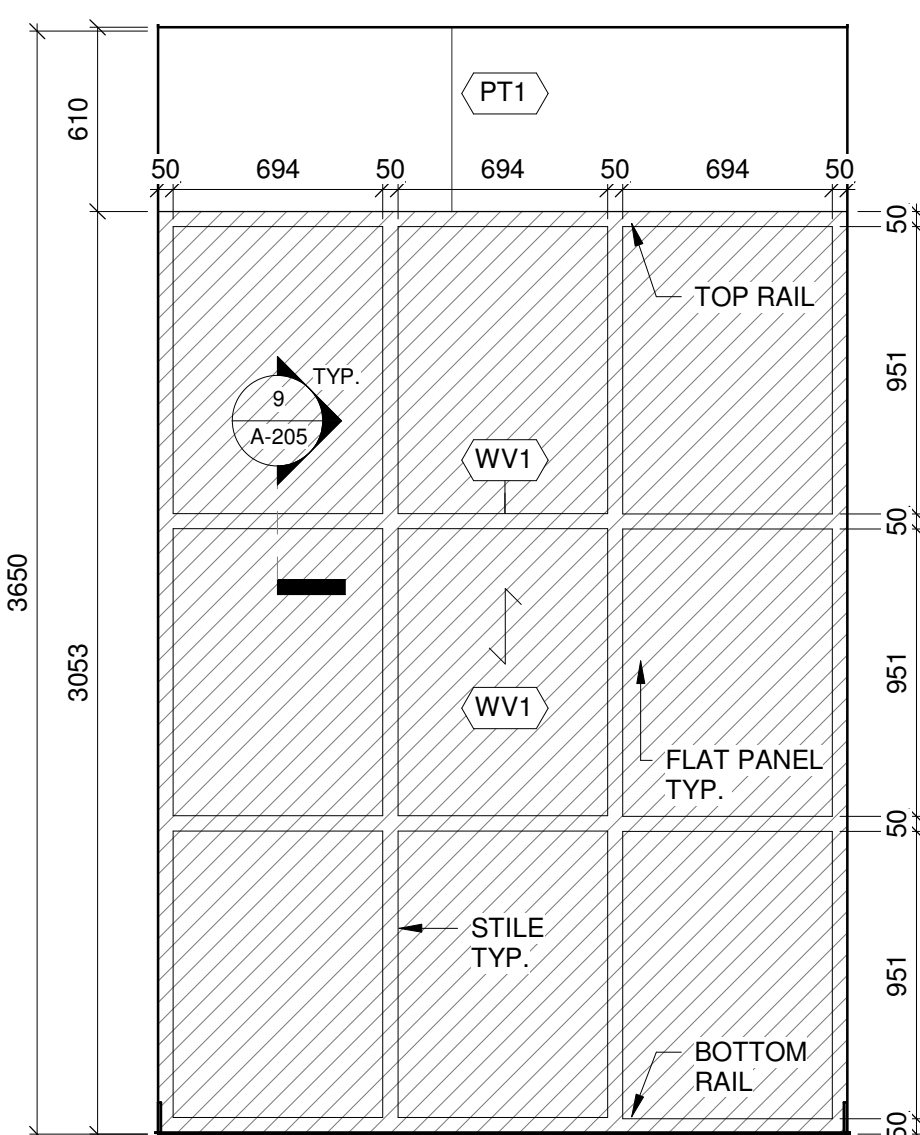
**4 INTERIOR ELEVATION - OFFICE 115 1**  
A-203 1 : 25



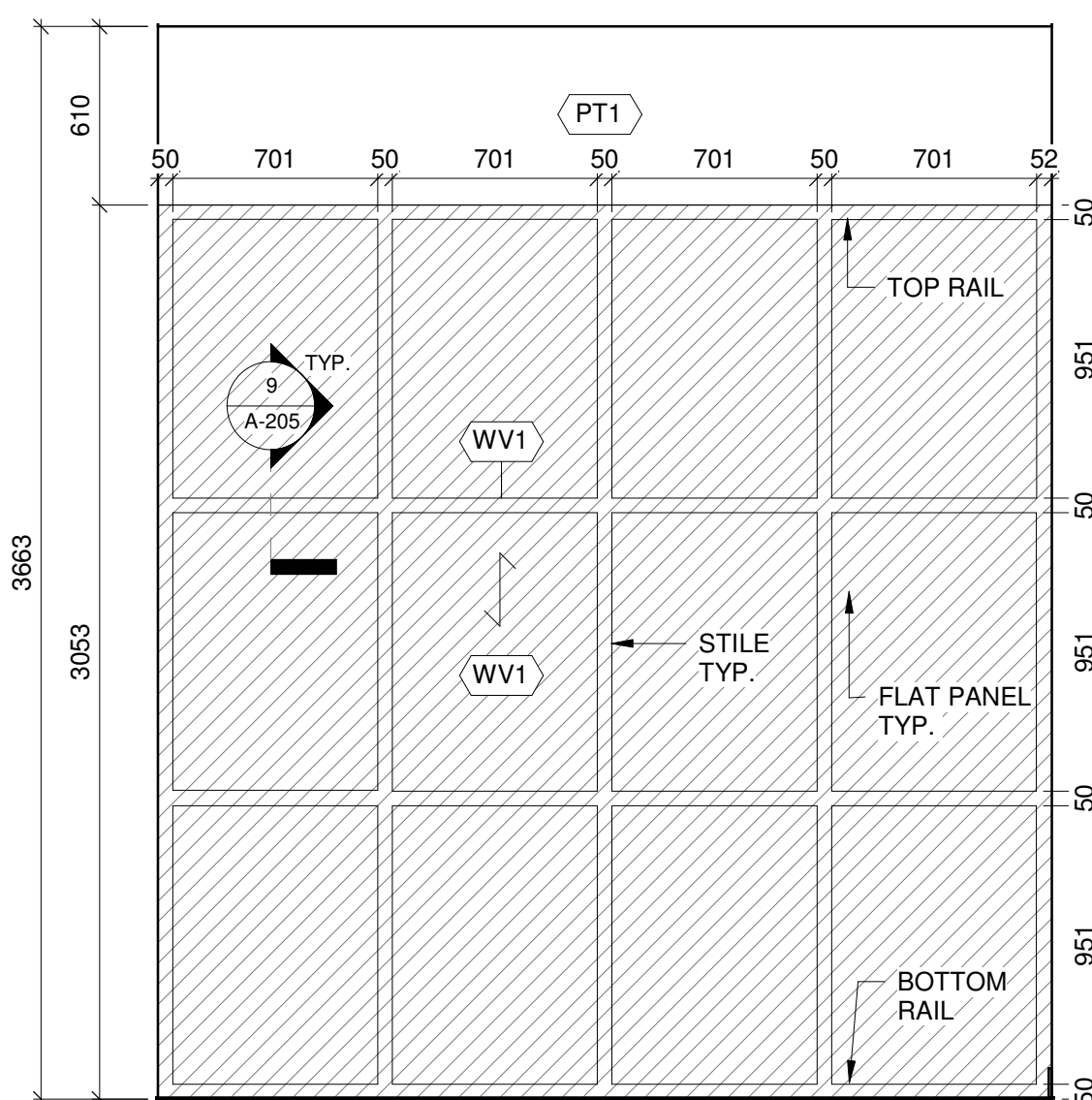
**5 INTERIOR ELEVATION - OFFICE 116 1**  
A-203 1 : 25



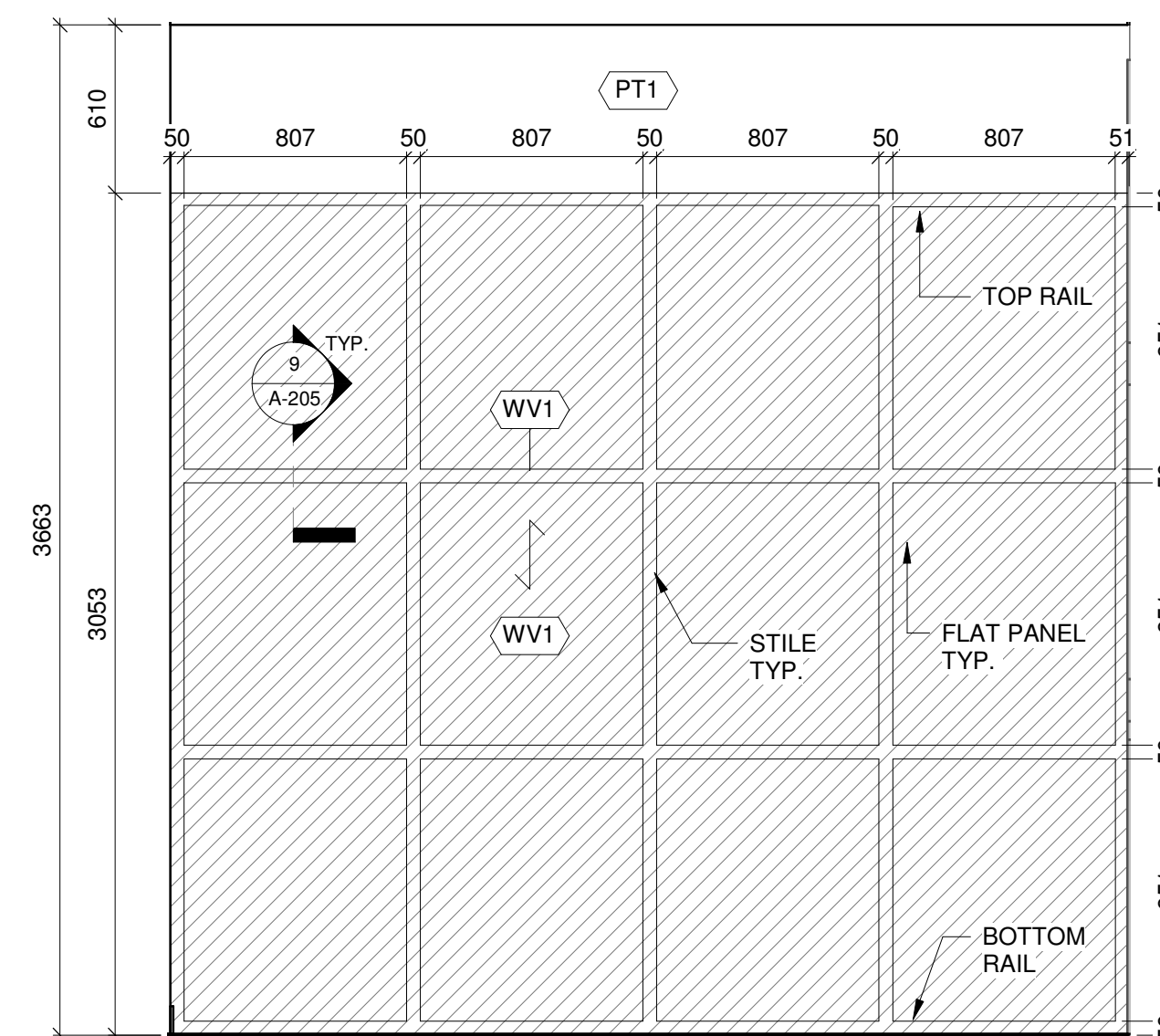
**6 INTERIOR ELEVATION - OFFICE 117 1**  
A-203 1 : 25



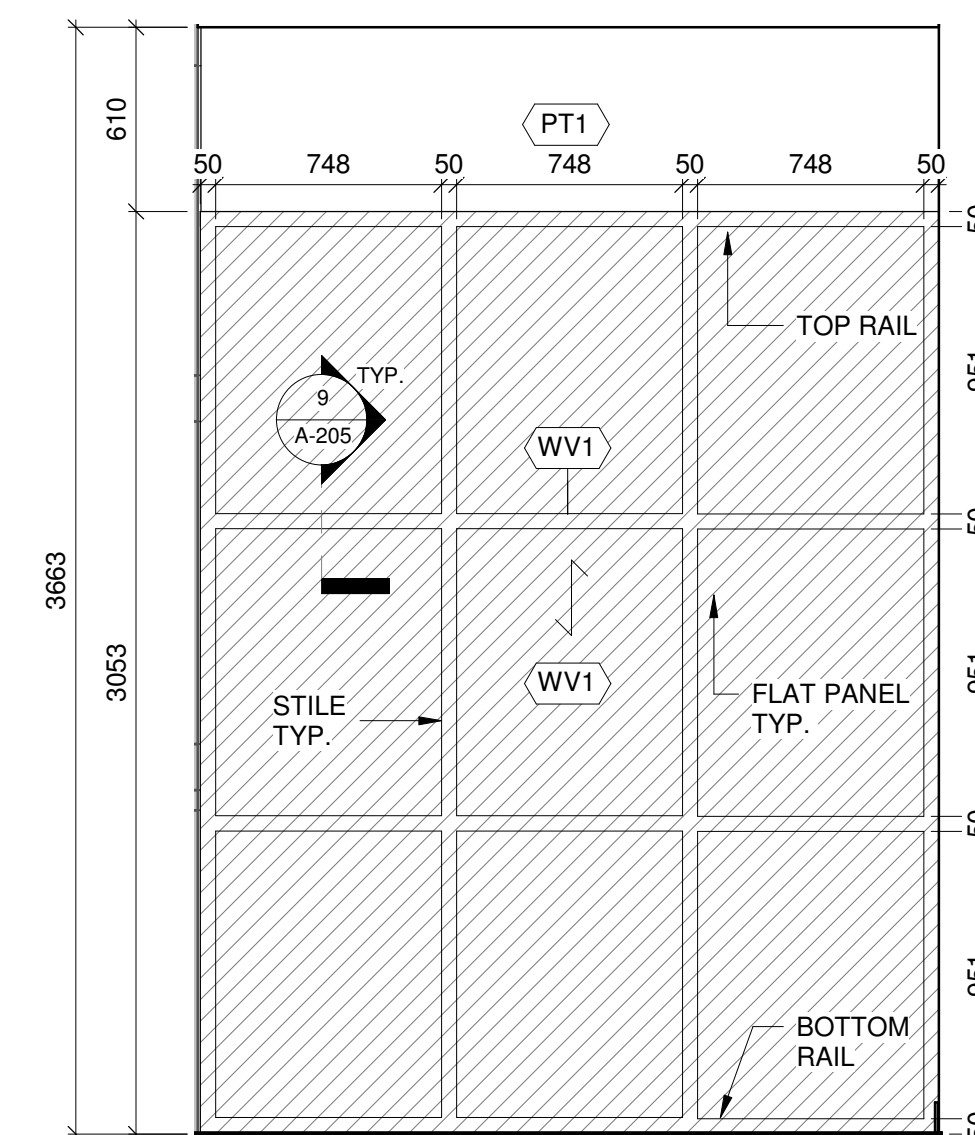
**7 INTERIOR ELEVATION - OFFICE 114 2**  
A-203 1 : 25



**8 INTERIOR ELEVATION - OFFICE 115 2**  
A-203 1 : 25



**9 INTERIOR ELEVATION - OFFICE 116 2**  
A-203 1 : 25



**10 INTERIOR ELEVATION - OFFICE 117 2**  
A-203 1 : 25

**FURNITURE / EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
A	ATM	MANUFACTURER: DIEBOLD NIXDORF MODEL: CS750 FULL FUNCTION TERMINAL DIMENSIONS: 930mm H x 864mm W x 1280mm D OWNER SUPPLIED, CONTRACTOR INSTALLED	1
B	WALL MOUNTED 75" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	1
C	PRINTER	* CLIENT SUPPLIED	1
D	REFRIGERATOR	MANUFACTURER: SAMSUNG MODEL: RF18HFENBSG DIMENSIONS: 32 1/8"W x 70 1/8"H x 30 1/2"D FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
E	DISHWASHER	MANUFACTURER: BOSCH MODEL: SHSM63W56N DIMENSIONS: 23 9/16"W x 23 3/4"D x 33 7/8"H FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
F	MICROWAVE	MANUFACTURER: LG MODEL: LMC15755B DIMENSIONS: 21 7/16"W x 12 1/8"H x 17"D FINISH: SMOOTH BLACK * CONTRACTOR SUPPLIED AND INSTALLED.	1
G	DOUBLE SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
H	WALL MOUNTED 30" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	4
J	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
K	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
L	GARBAGE RECYCLE BIN	MANUFACTURER: RICHELIEU MODEL: 53WC2150SCDM213 DIMENSIONS: 14 3/4" W x 22 7/8"H x 22 1/4"D * CONTRACTOR SUPPLIED AND INSTALLED.	1
M	MOUNTAIN FRESH WATER FILTRATION SYSTEM	* REFER TO MECHANICAL DRAWINGS FOR DETAILS.	1

**WALL FINISH LEGEND**

TAG	TYPE
FRP1	FIBERGLASS REINFORCED PLASTIC
GF1	GLAZING FILM
GL1	ARCHITECTURAL GLASS
GL2	ARCHITECTURAL GLASS
MT2	METAL FINISH
PLT1	PLASTER FINISH
PLT2	PLASTER FINISH
PT1	FIELD PAINT
PT2	ACCENT PAINT
RB1	RUBBER WALL BASE
RB2	RUBBER WALL BASE
SS2	STONE SURFACE
VW1	VINYL WALL GRAPHIC
WP1	WALL PROFILE
WT1	WALL TILE
WV1	WOOD VENEER

**MILLWORK FINISH LEGEND**

TAG	TYPE
FB1	FABRIC
FB2	FABRIC
H1	HARDWARE
LF1	LACOEUR FINISH
MT1	METAL FINISH
PL1	PLASTIC LAMINATE
SS1	STONE SURFACE
SS2	STONE SURFACE
WV1	WOOD VENEER

**CONSULTANTS**



**SEALS**

**NOTES**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

ISSUE: 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

SCALE: 1 : 25

DRAWN BY: RAC/AMK

CHECKED BY/OA: JO AK

PROJECT NO: 19-02

**DRAWING CONTENTS**

**INTERIOR ELEVATIONS**

SHEET NUMBER

**A-203**

NOT FOR CONSTRUCTION

**CONSULTANTS**

Mechanical:



Electrical:



**SEALS**

**NOT FOR CONSTRUCTION**

**NOTES**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z3

**ISSUE: 4**

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

**SCALE:** As indicated

**DRAWN BY:** RAC/AMK

**CHECKED BY/OA:** JO AK

**PROJECT NO:** 19-02

**DRAWING CONTENTS**

**MILLWORK SECTIONS**

**SHEET NUMBER**

**A-204**

**FURNITURE / EQUIPMENT SCHEDULE**

TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
A	ATM	MANUFACTURER: DIEBOLD NIXDORF MODEL: CS750 FULL FUNCTION TERMINAL DIMENSIONS: 930mm H x 864mm W x 1280mm D OWNER SUPPLIED, CONTRACTOR INSTALLED	1
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C	PRINTER	* CLIENT SUPPLIED	1
D	REFRIGERATOR	MANUFACTURER: SAMSUNG MODEL: RF18HFENBSG DIMENSIONS: 32 1/8"W x 70 1/8"H x 30 1/2"D FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
E	DISHWASHER	MANUFACTURER: BOSCH MODEL: SHSM63W56N DIMENSIONS: 23 9/16"W x 23 3/4"D x 33 7/8"H FINISH: BLACK STAINLESS STEEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
F	MICROWAVE	MANUFACTURER: LG MODEL: LMC157559 DIMENSIONS: 21 7/16"W x 12 1/8"H x 17"D FINISH: SMOOTH BLACK * CONTRACTOR SUPPLIED AND INSTALLED.	1
G	DOUBLE SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
H	WALL MOUNTED 30" TV SCREEN	* SUPPLIED AND INSTALLED BY AV CONSULTANT	4
J	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
K	COFFEE MACHINE	* OWNER SUPPLIED, CONTRACTOR INSTALLED.	1
L	GARBAGE RECYCLE BIN	MANUFACTURER: RICHELIEU MODEL: 53WC2150SCDM213 DIMENSIONS: 14 3/4" W x 22 7/8"H x 22 1/4"D FINISH: BRUSHED NICKEL * CONTRACTOR SUPPLIED AND INSTALLED.	1
M	MOUNTAIN FRESH WATER FILTRATION SYSTEM	* REFER TO MECHANICAL DRAWINGS FOR DETAILS.	1

**WASHROOM EQUIPMENT SCHEDULE**

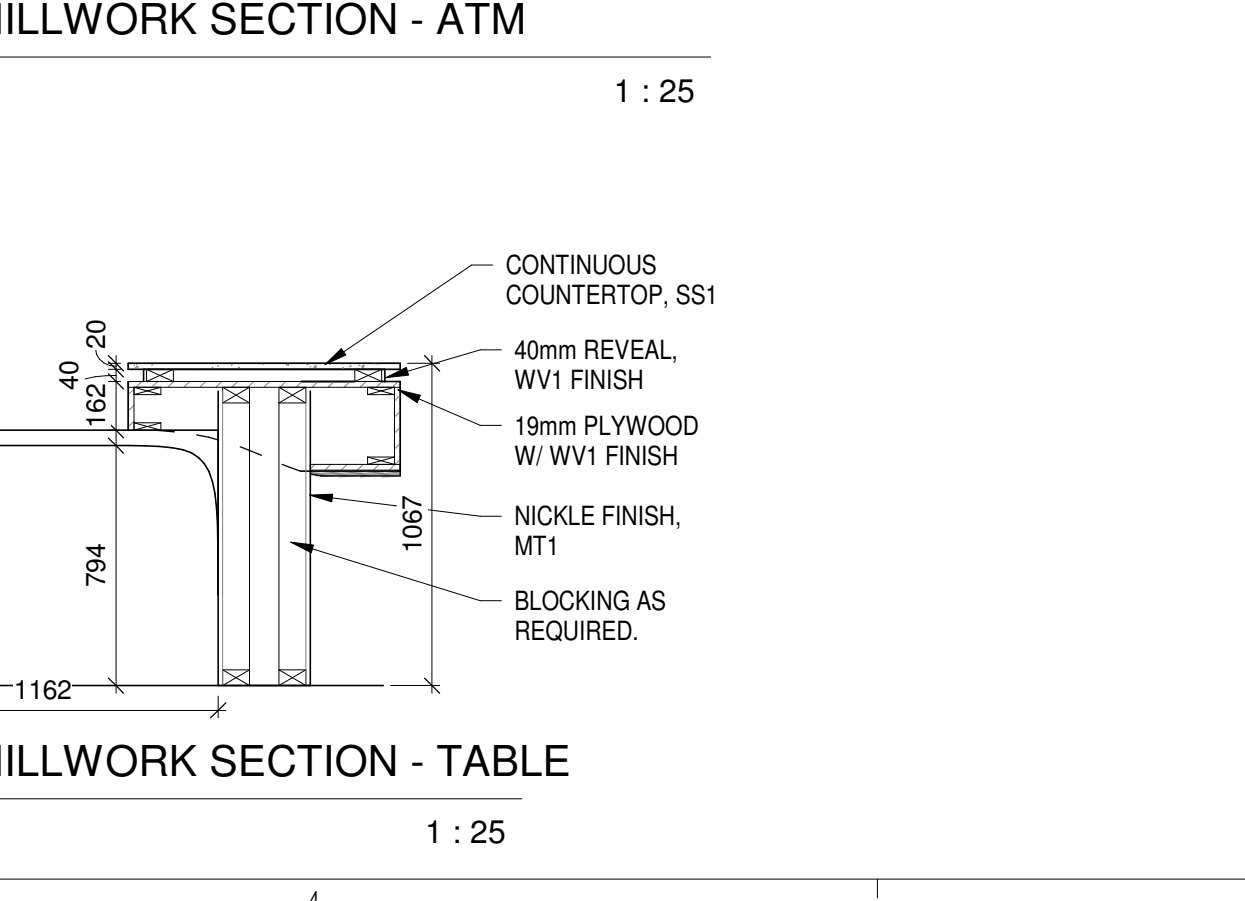
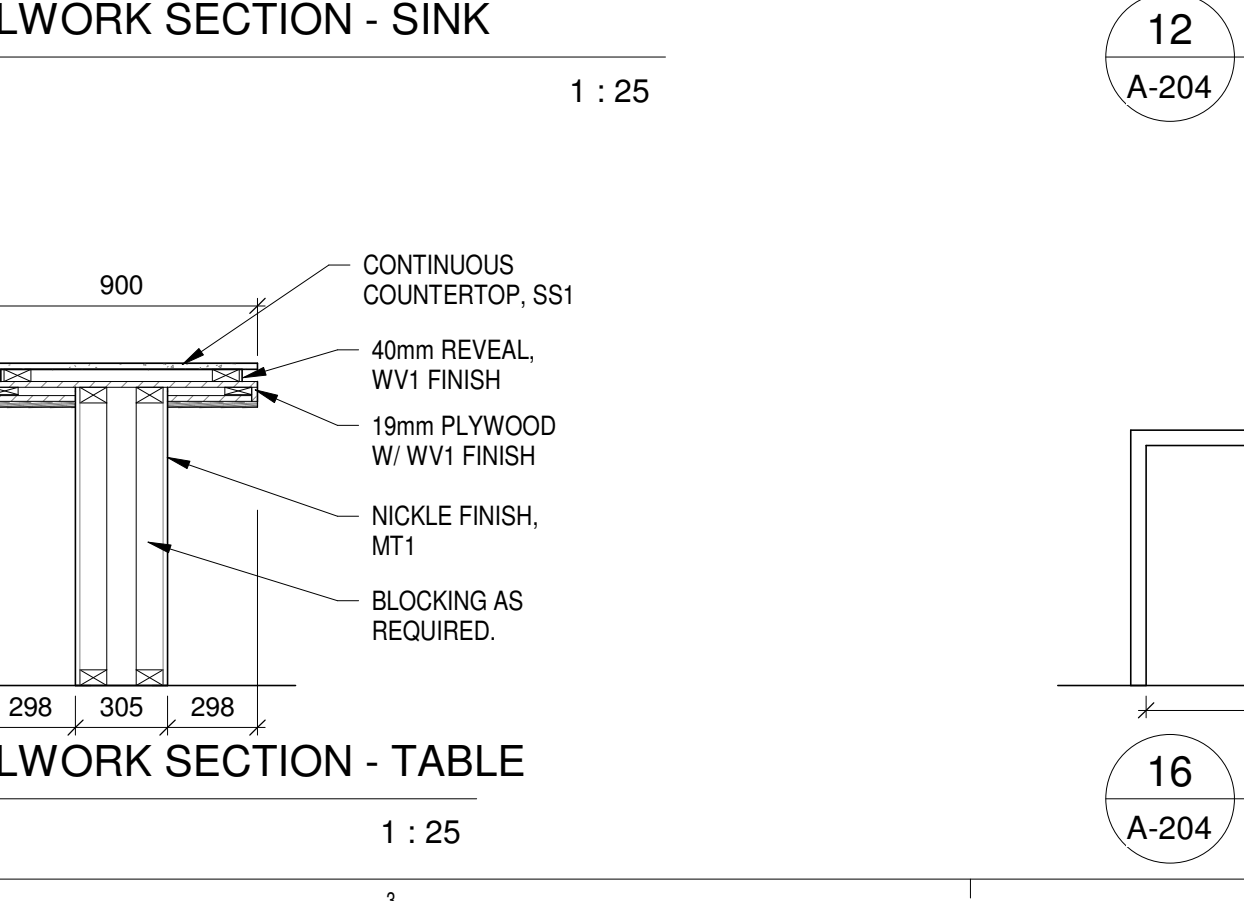
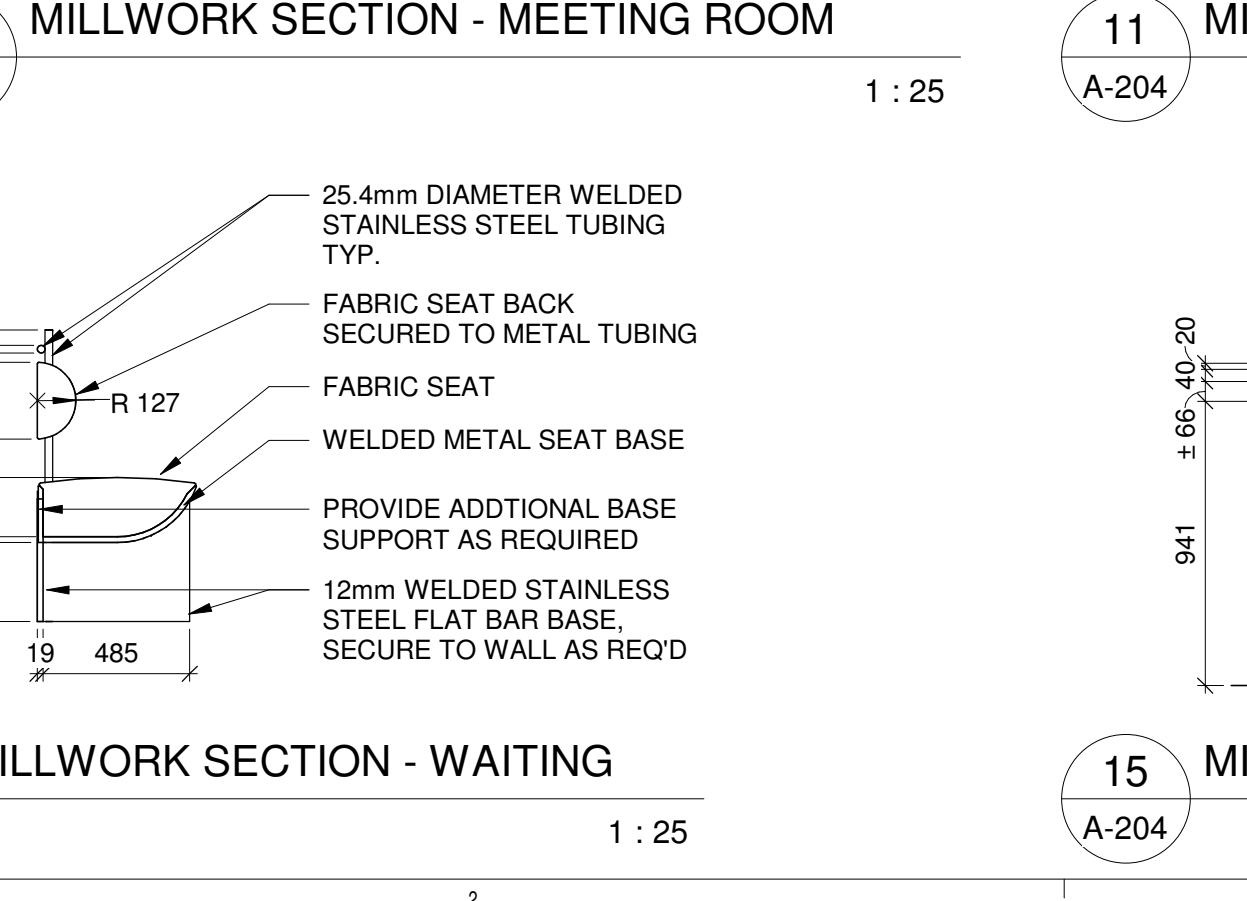
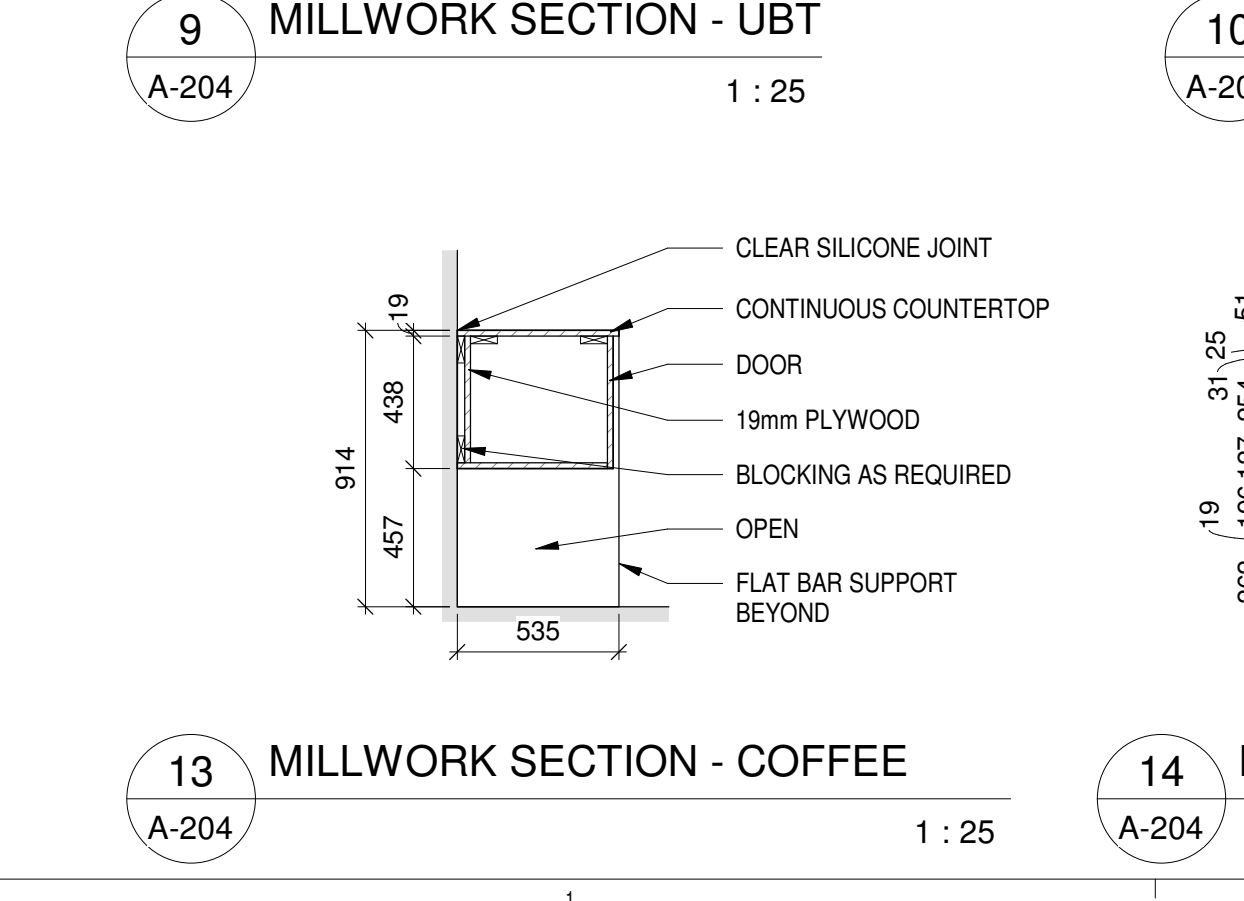
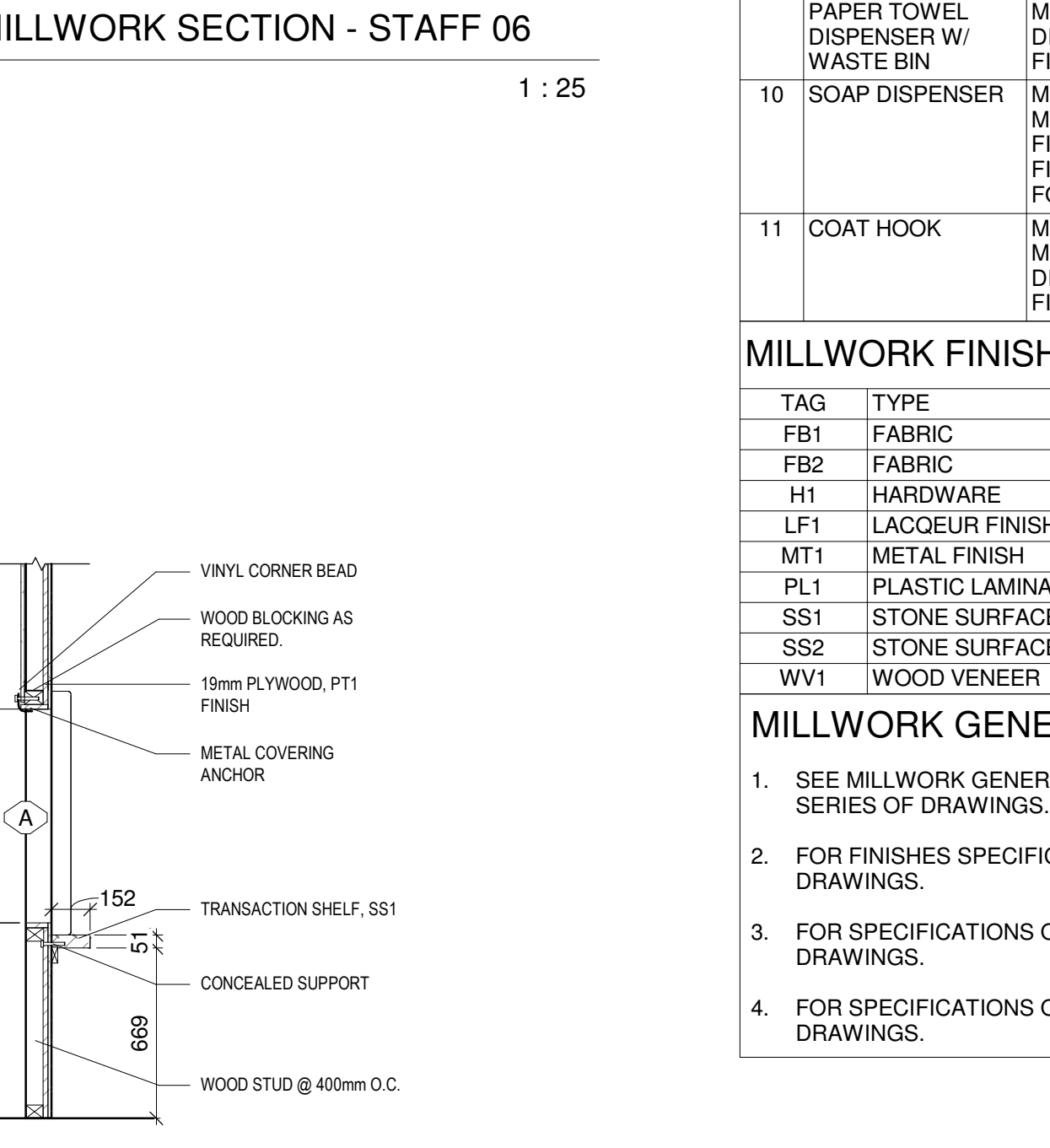
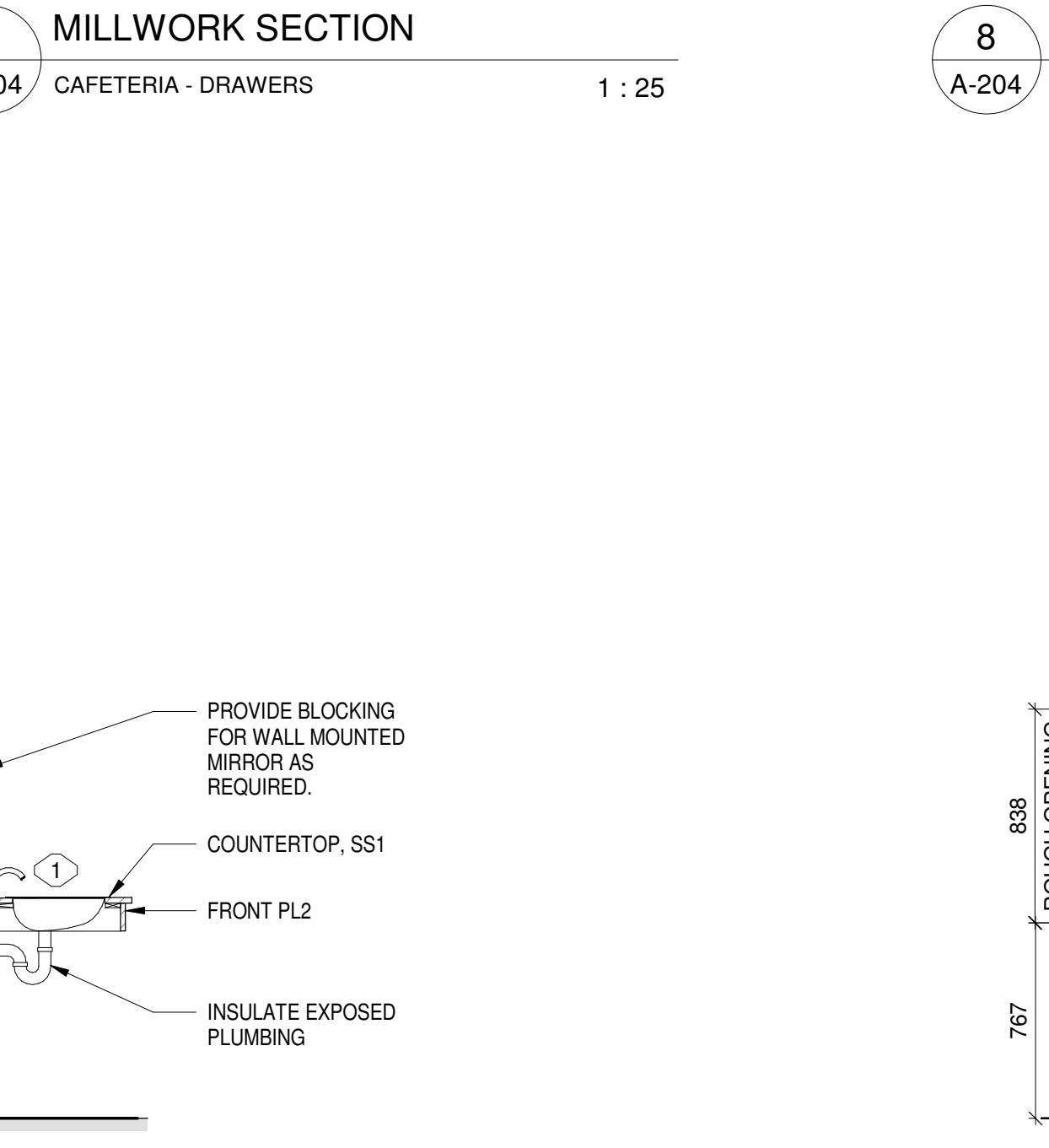
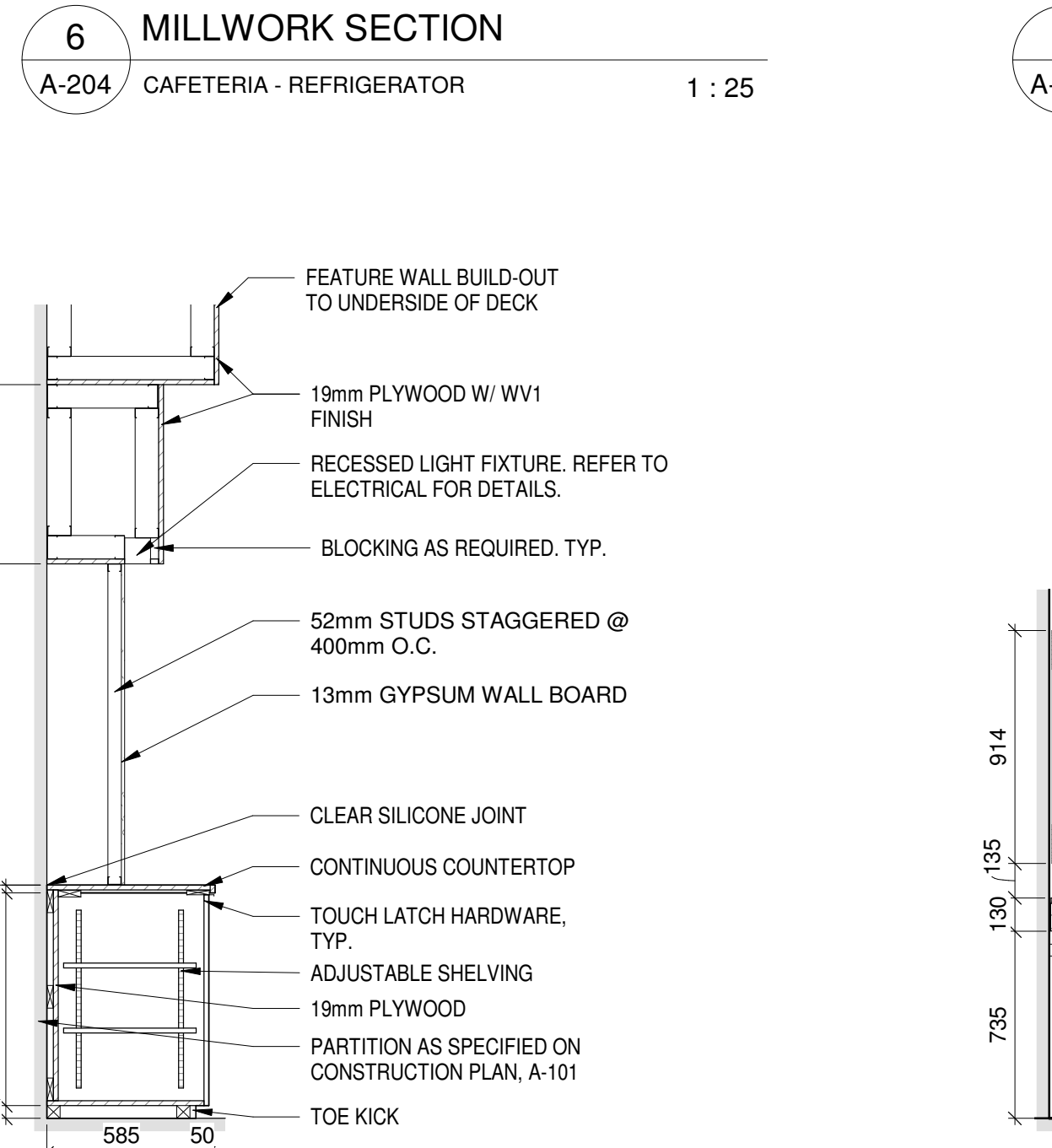
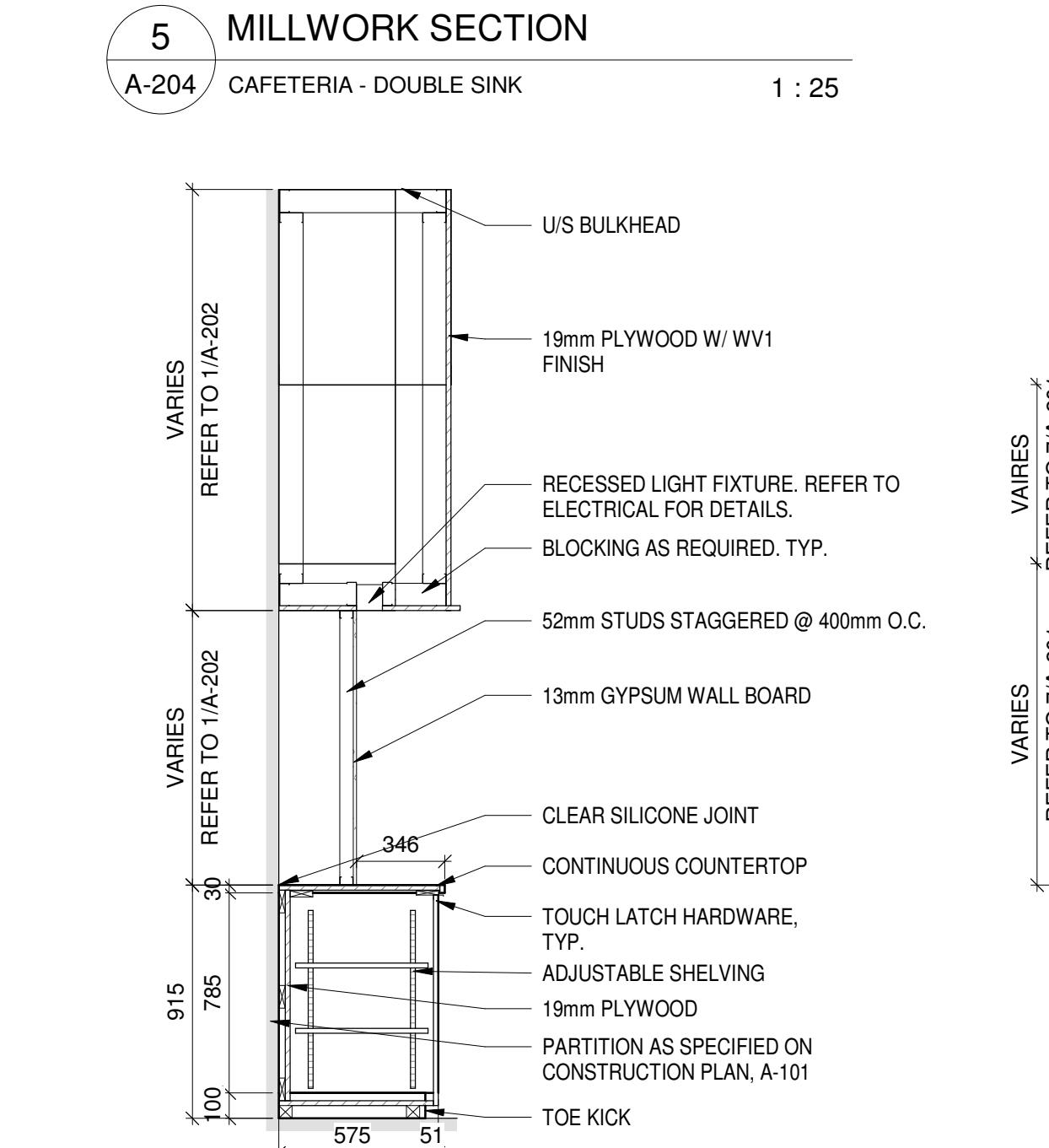
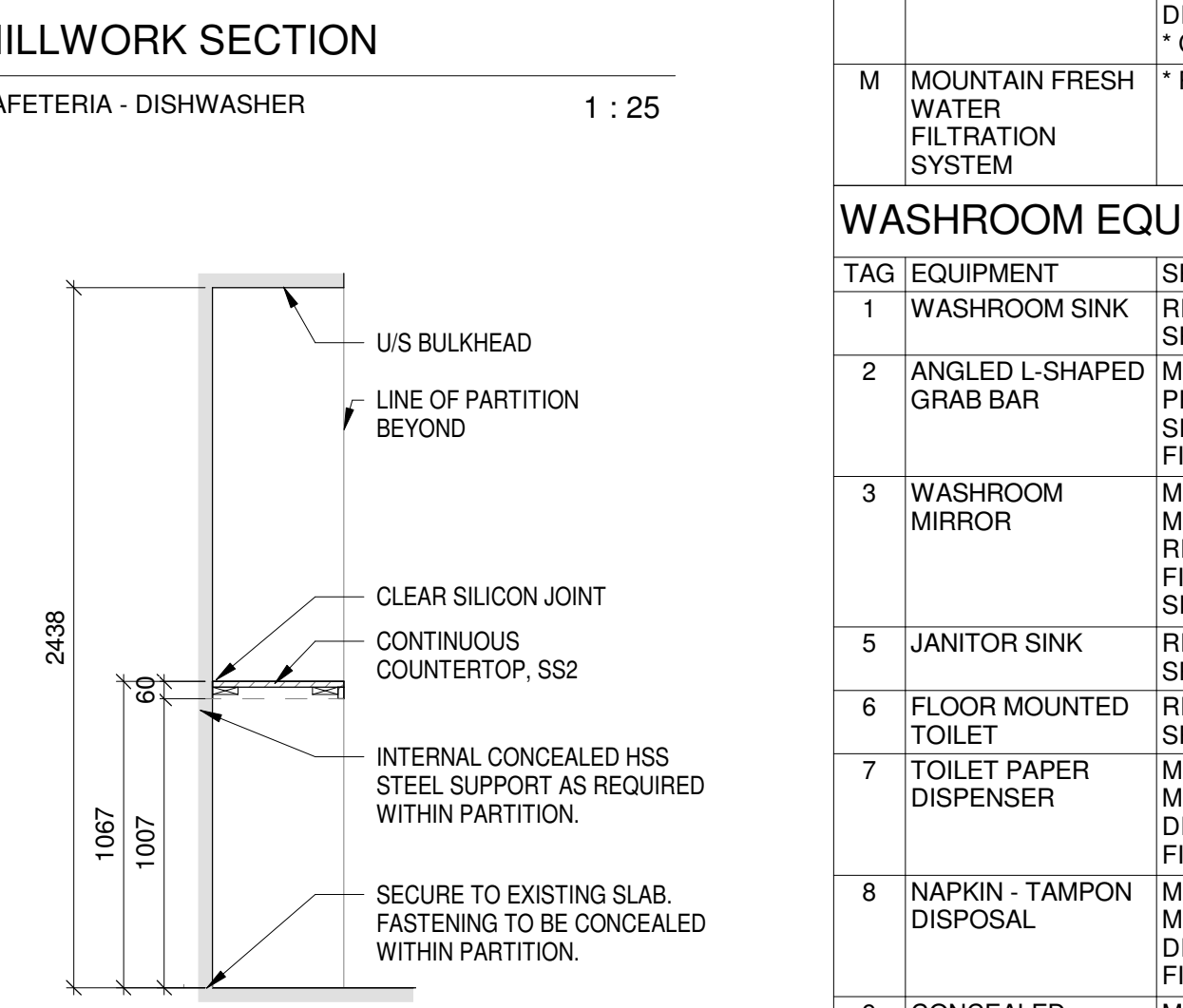
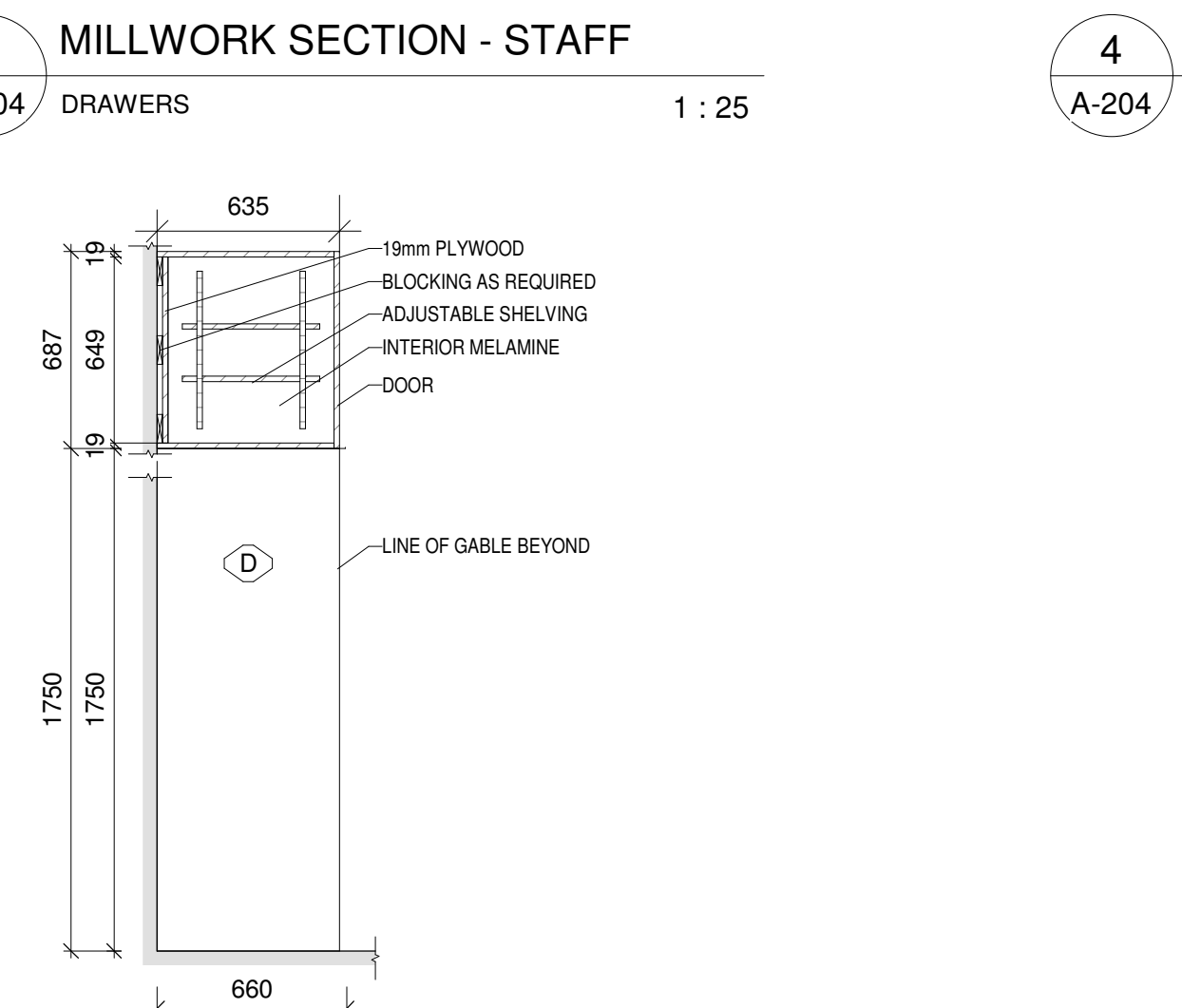
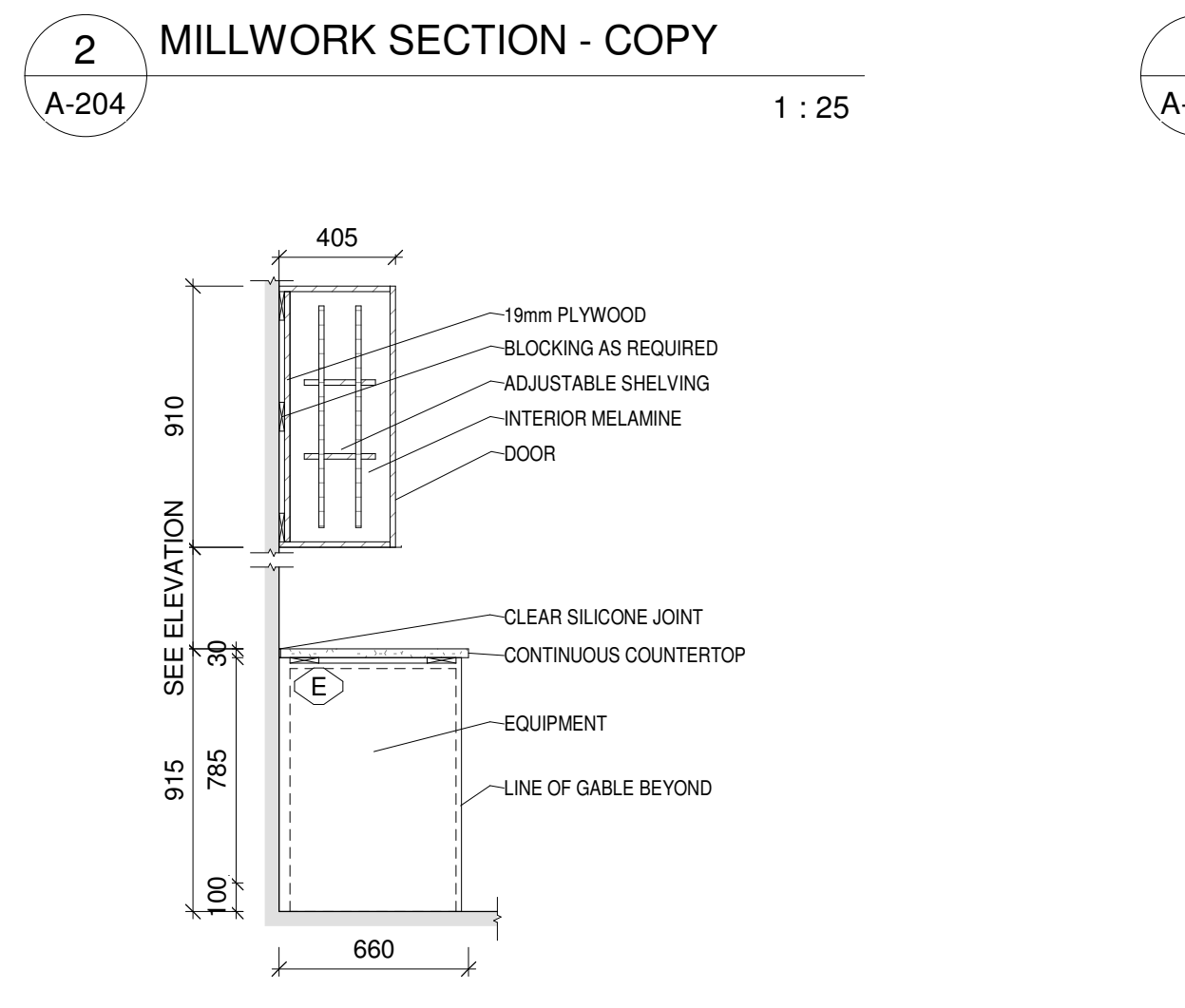
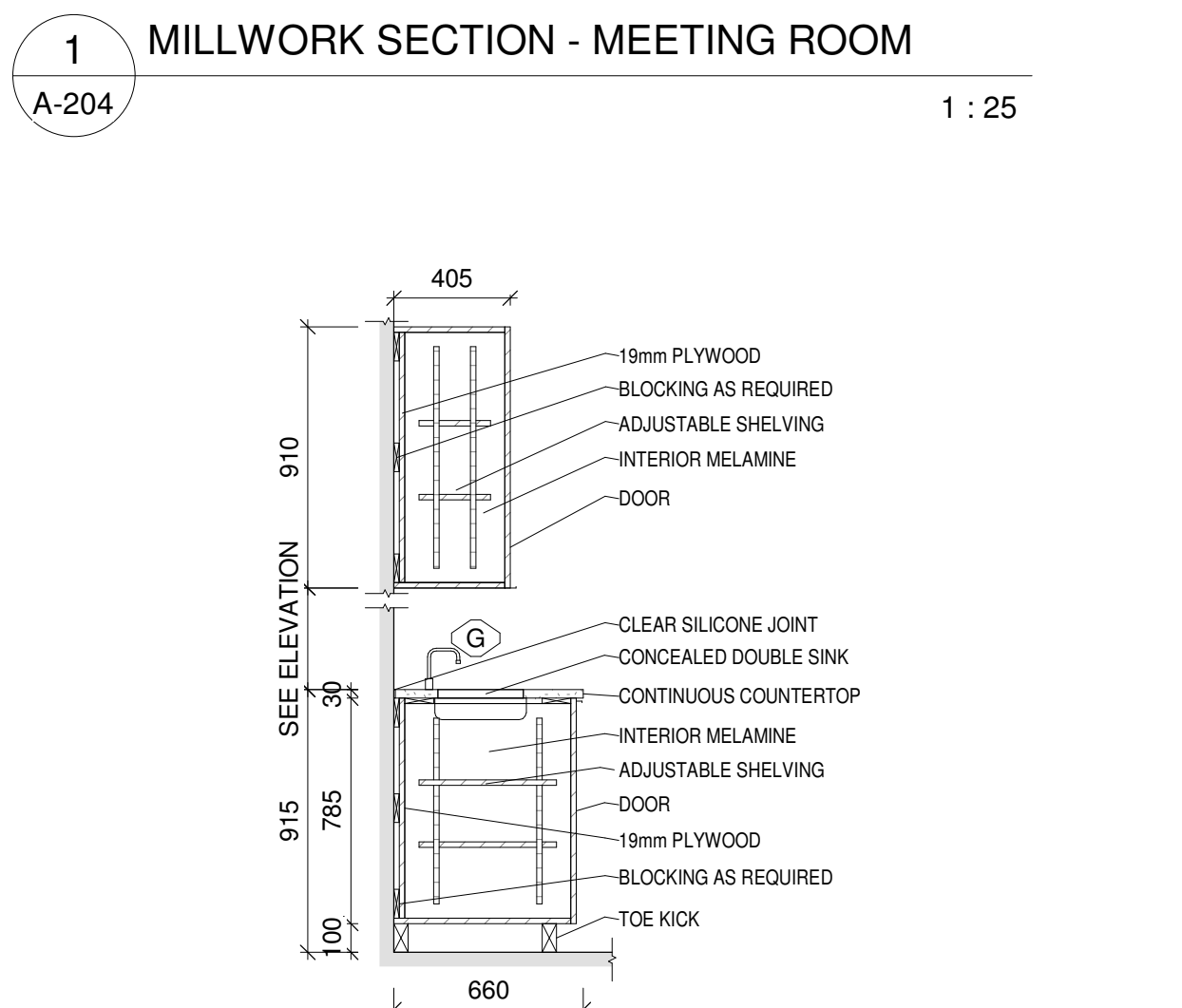
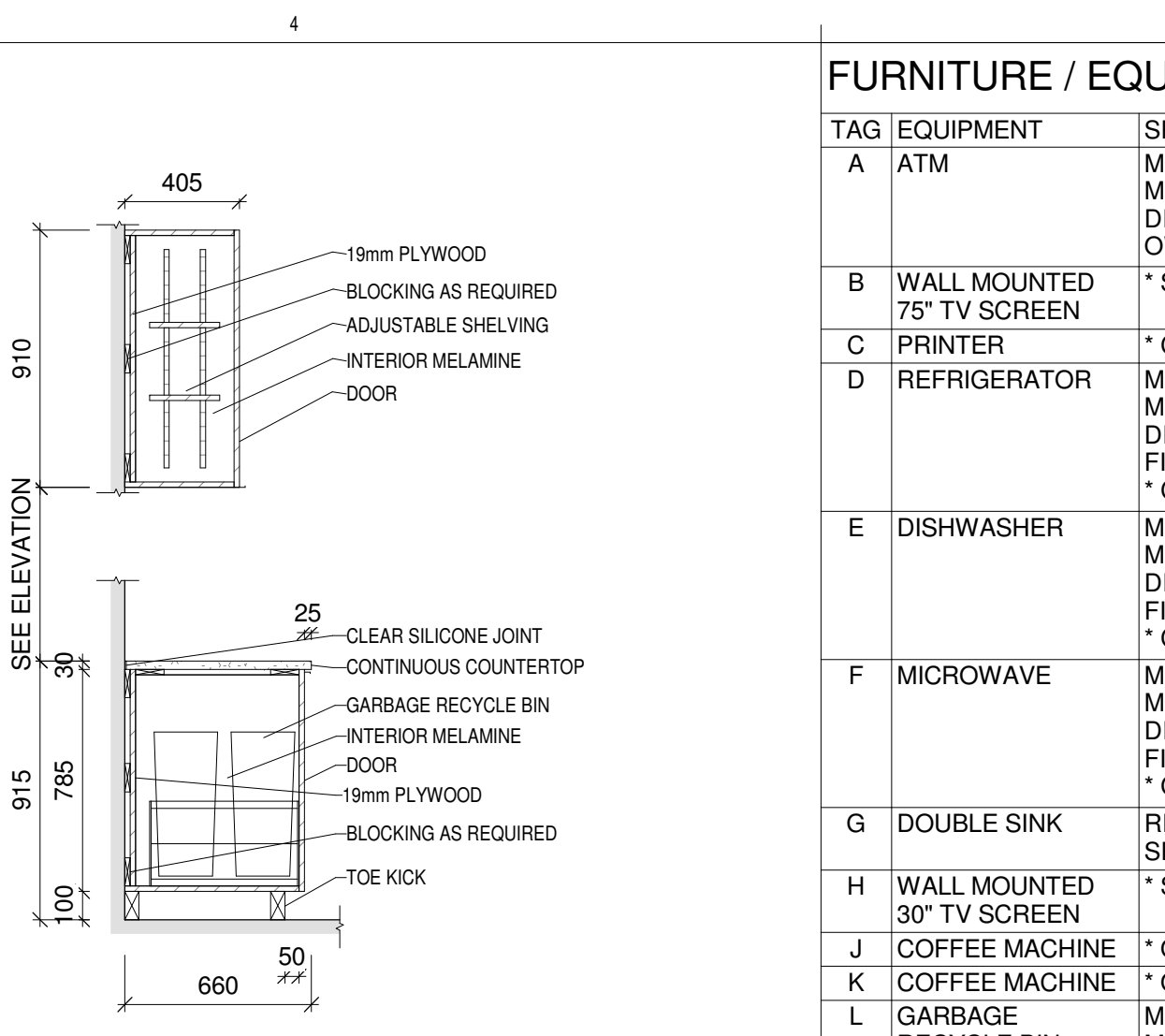
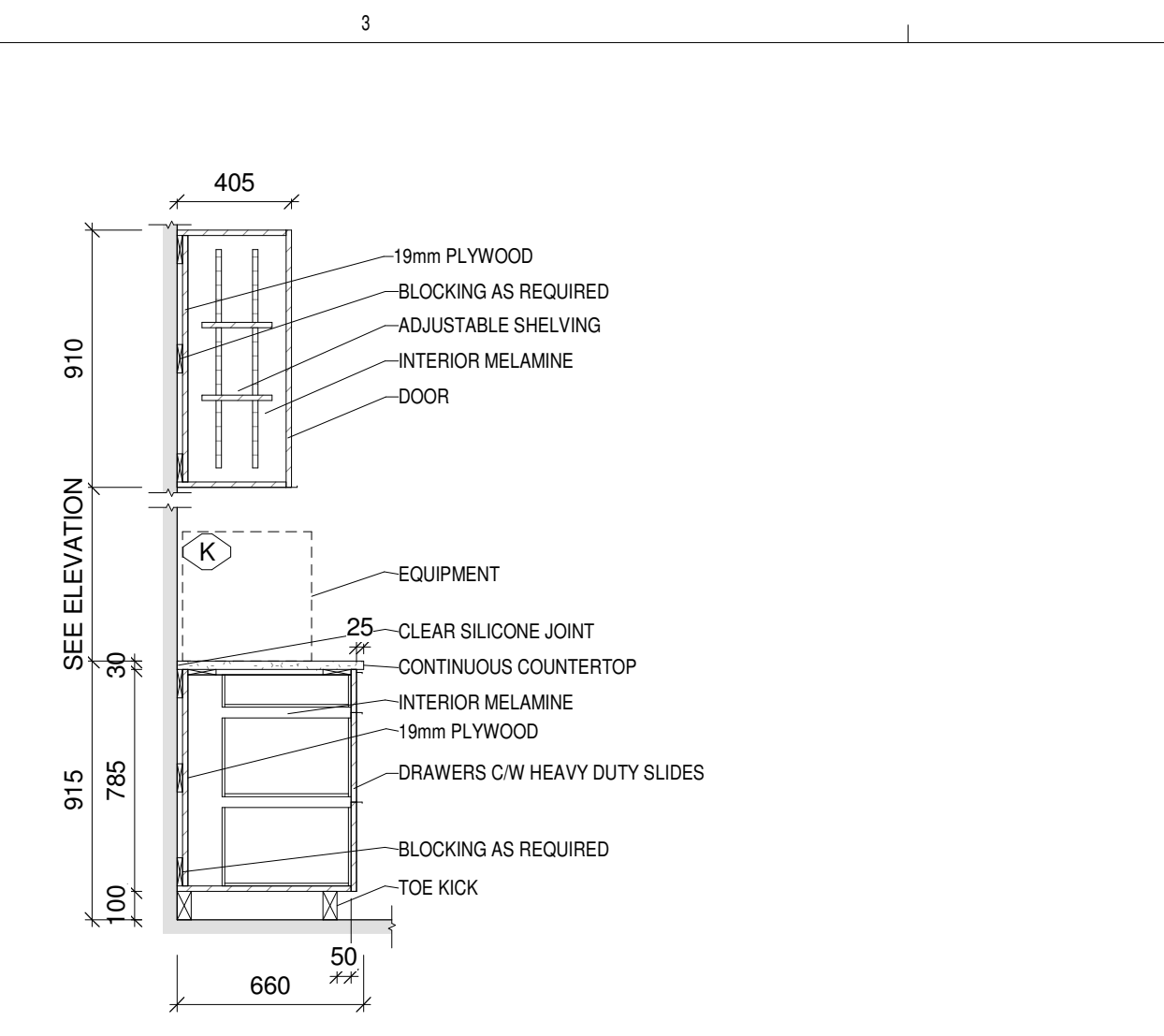
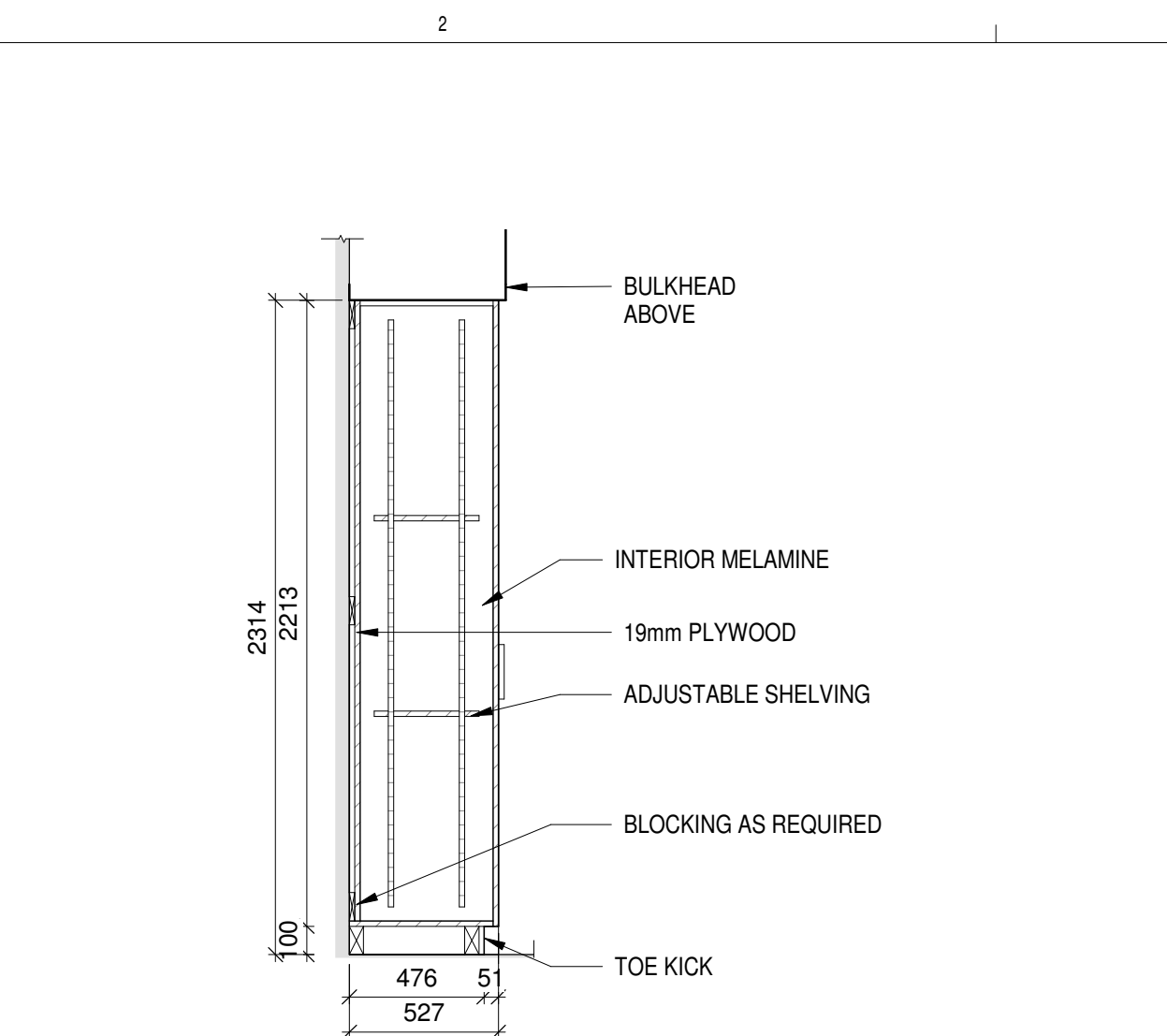
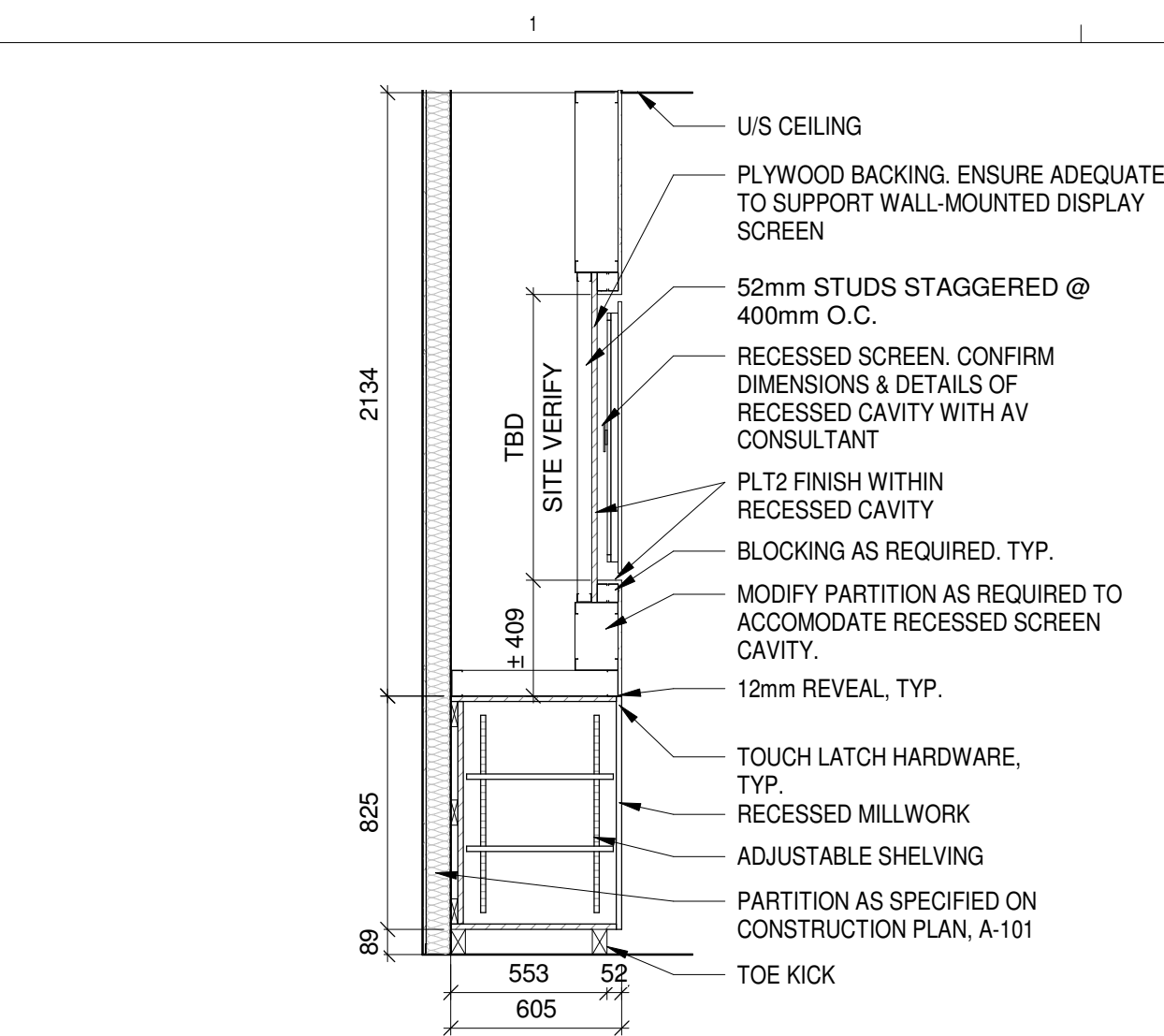
TAG	EQUIPMENT	SPECIFICATIONS	QUANTITY
1	WASHROOM SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
2	ANGLED L-SHAPED GRAB BAR	MANUFACTURER: FROST PRODUCT NUMBER: 1002-SP 1 1/4" DIAMETER SIZE: 24"x24" FINISH: STAINLESS STEEL, PEENED	1
3	WASHROOM MIRROR	MANUFACTURER: CRATE AND BARREL MODEL: EDGE BRUSHED NICKEL ROUNDED RECTANGULAR MIRROR FINISH: BRUSHED NICKEL SIZE: 36"W x 1"D x 24"H	1
5	JANITOR SINK	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
6	FLOOR MOUNTED TOILET	REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS	1
7	TOILET PAPER DISPENSER	MANUFACTURER: MOEN MODEL: YB0405BN DIMENSIONS: 3.94" X 2.36" X 6.79" FINISH: BRUSHED NICKEL	1
8	NAPKIN - TAMPON DISPOSAL	MANUFACTURER: BOBRICK MODEL: B-270 DIMENSIONS: 190 x 255 x 95mm FINISH: SATIN STAINLESS STEEL	1
9	CONCEALED PAPER TOWEL DISPENSER W/ WASTE BIN	MANUFACTURER: BOBRICK MODEL: B-43944 DIMENSIONS: 56-1/4" X 17-7/16" X 5" FINISH: STAINLESS STEEL	1
10	SOAP DISPENSER	MANUFACTURER: MOEN MODEL: 3942 SERIES FINISH: MATTE BLACK REFER TO MANUFACTURER SPECIFICATIONS FOR CRITICAL DIMENSIONS.	1
11	COAT HOOK	MANUFACTURER: TBD MODEL: TBD DIMENSIONS: TBD FINISH: TBD	1

**MILLWORK FINISH LEGEND**

TAG	TYPE
FB1	FABRIC
FB2	FABRIC
H1	HARDWARE
LF1	LACOEUR FINISH
MT1	METAL FINISH
PL1	PLASTIC LAMINATE
SS1	STONE SURFACE
SS2	STONE SURFACE
WV1	WOOD VENEER

**MILLWORK GENERAL NOTES:**

- SEE MILLWORK GENERAL NOTES & MILLWORK HARDWARE NOTES ON THE "A0." SERIES OF DRAWINGS.
- FOR FINISHES SPECIFICATIONS, SEE MATERIAL LIST ON DRAWING "A0." SERIES OF DRAWINGS.
- FOR SPECIFICATIONS ON RELATED MECHANICAL ITEMS REFER TO MECHANICAL DRAWINGS.
- FOR SPECIFICATIONS ON RELATED ELECTRICAL ITEMS REFER TO ELECTRICAL DRAWINGS.



**CONSULTANTS**

Mechanical:

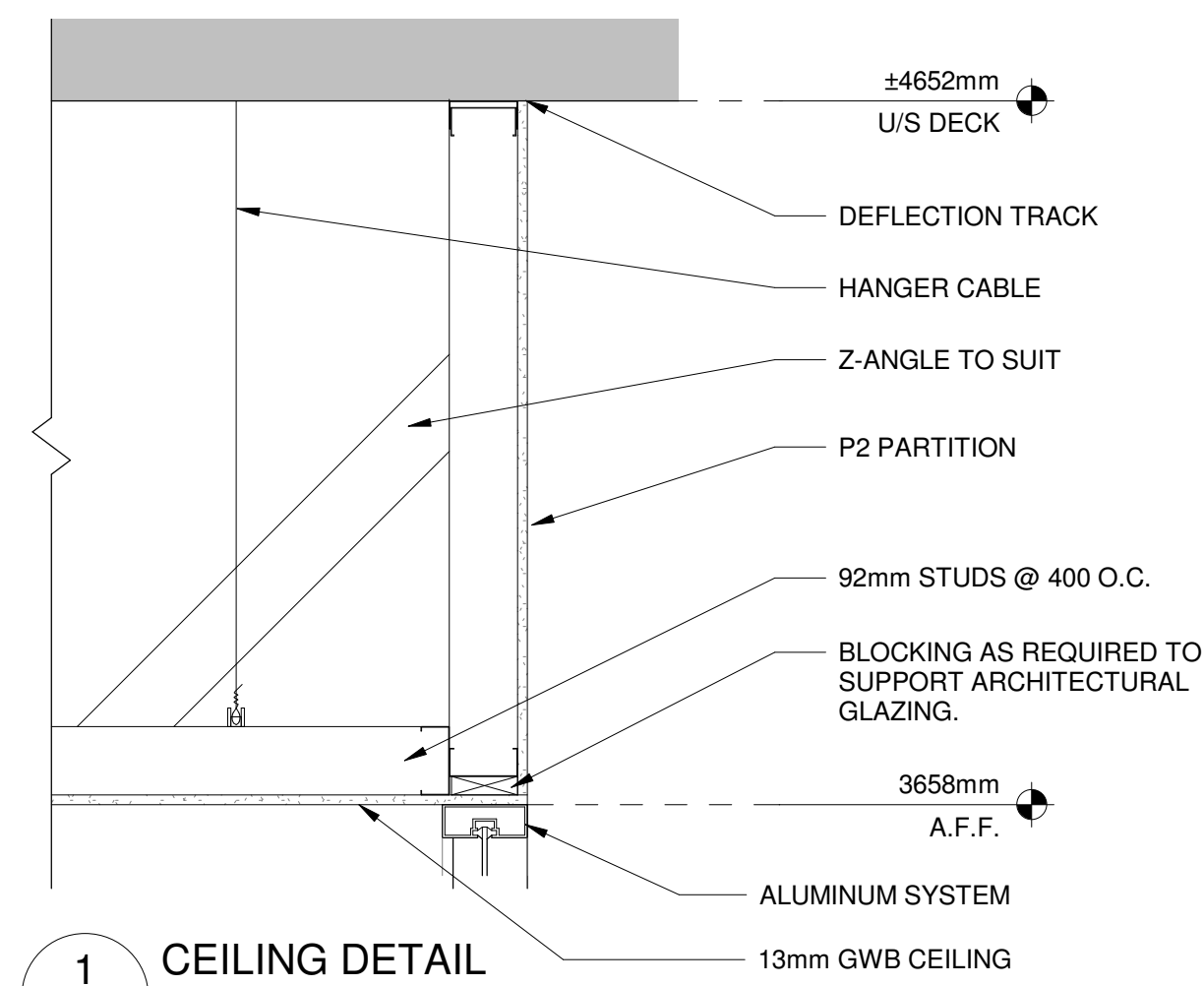


Electrical:

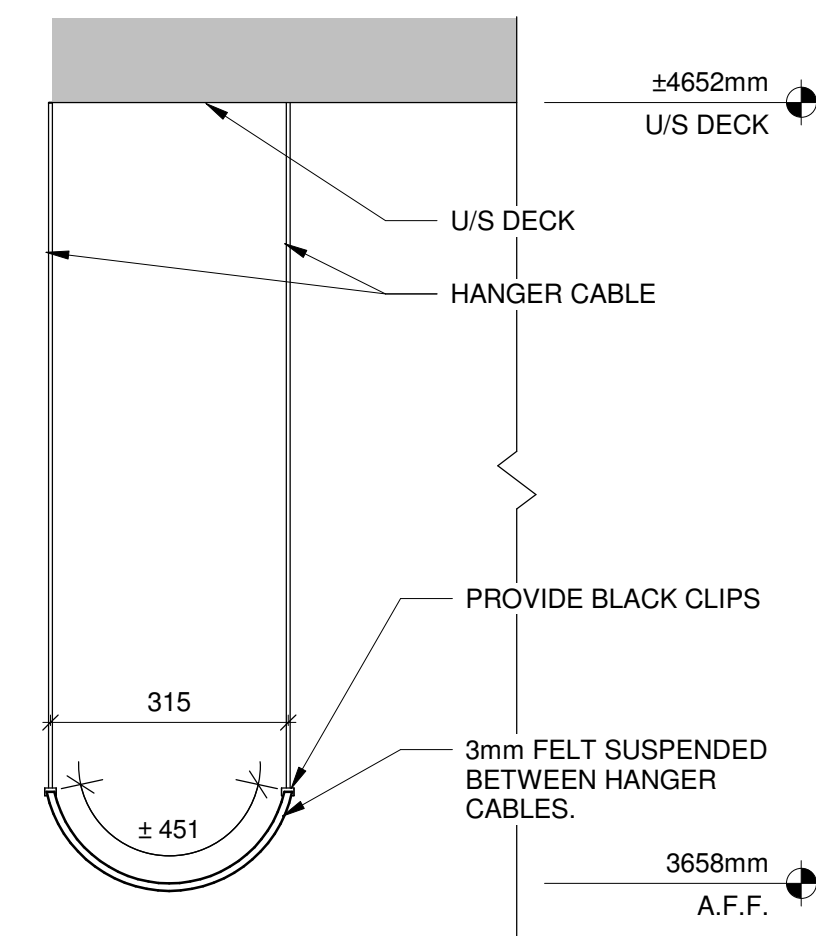


SEALS

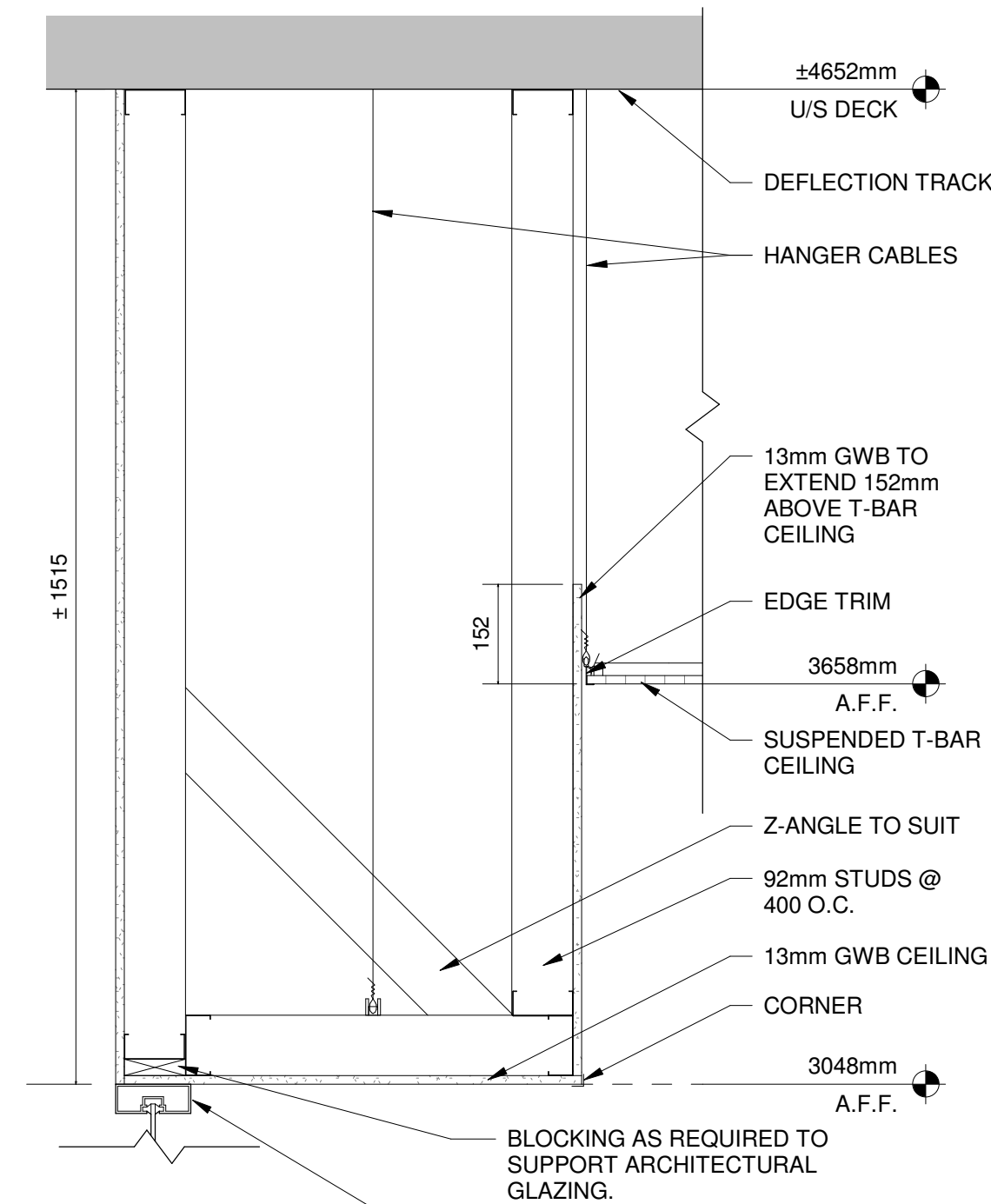
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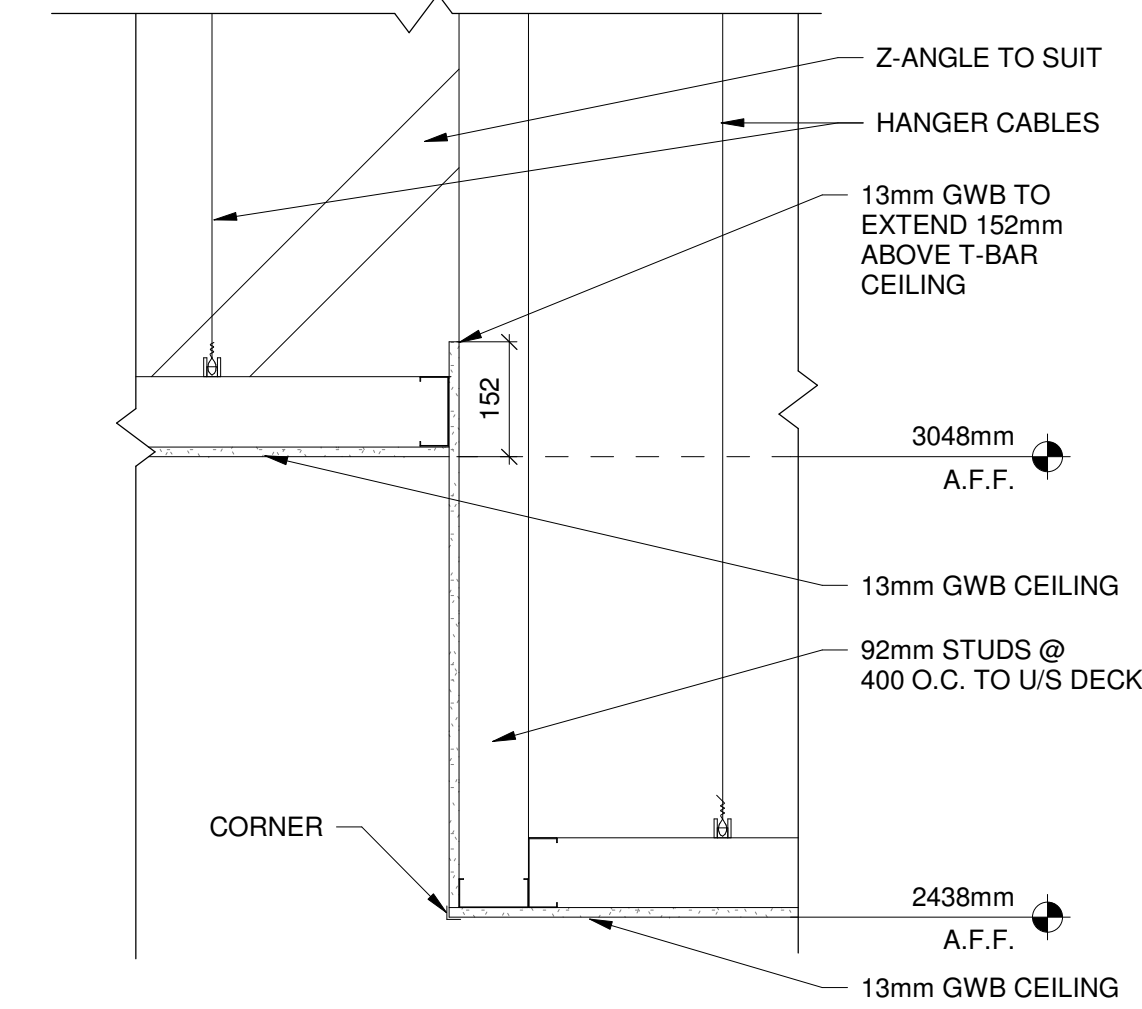
**1 CEILING DETAIL**  
A-205 1 : 10



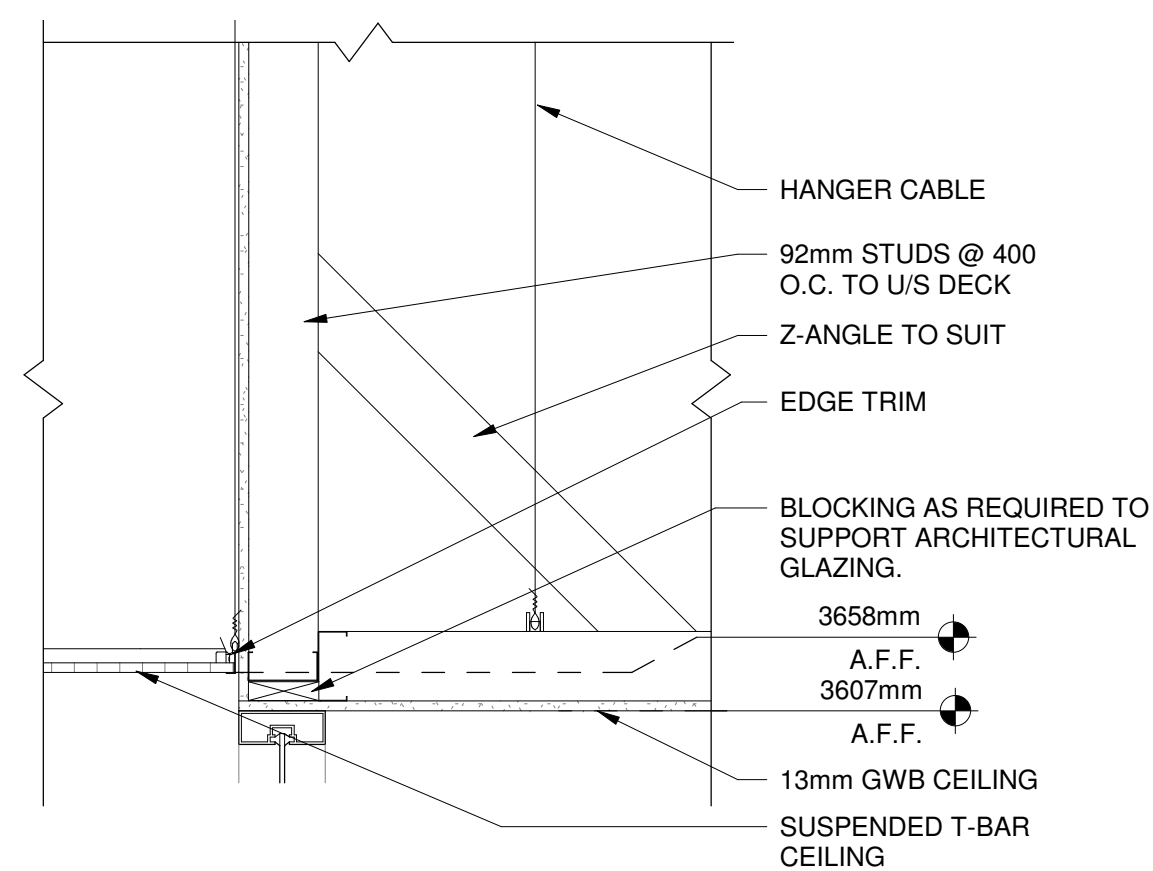
**2 CEILING DETAIL**  
A-205 CN3 1 : 10



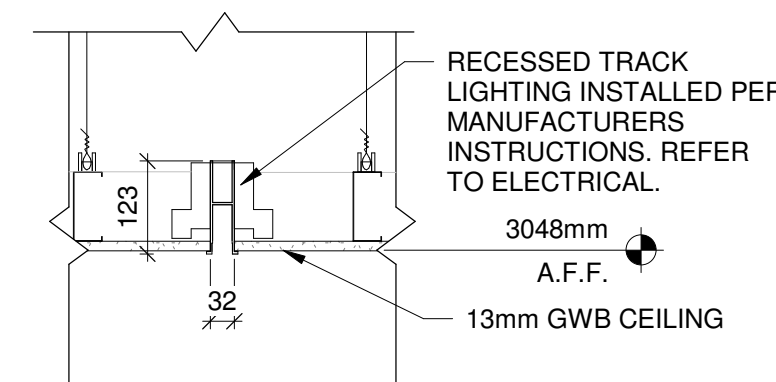
**3 CEILING DETAIL**  
A-205 CN1 to CN2 1 : 10



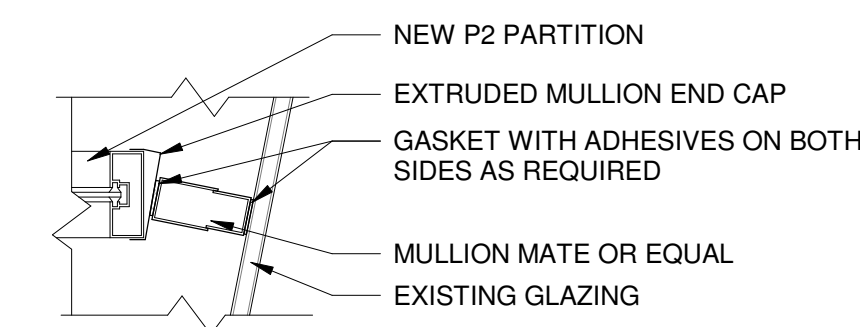
**4 CEILING DETAIL**  
A-205 CN1 to CN1 1 : 10



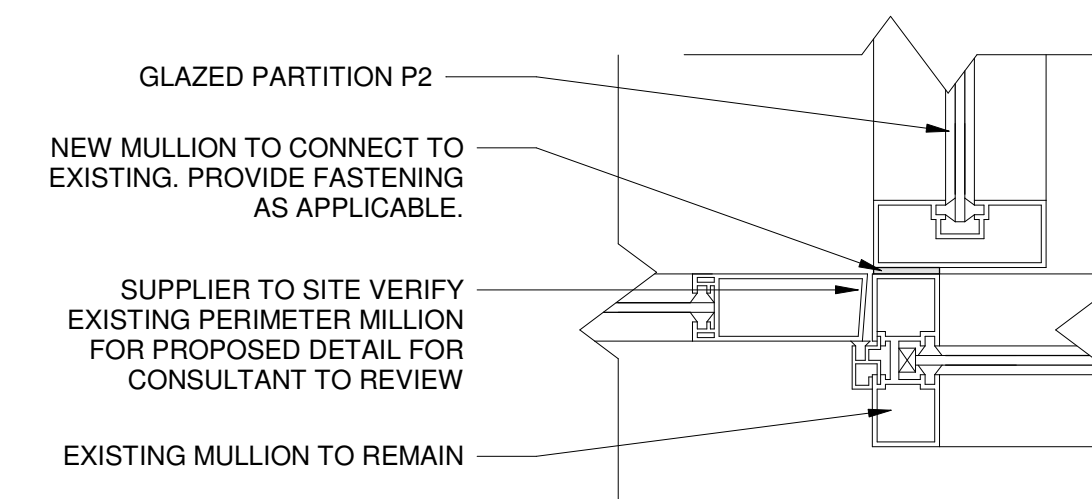
**5 CEILING DETAIL**  
A-205 CN1 to CN2 1 : 10



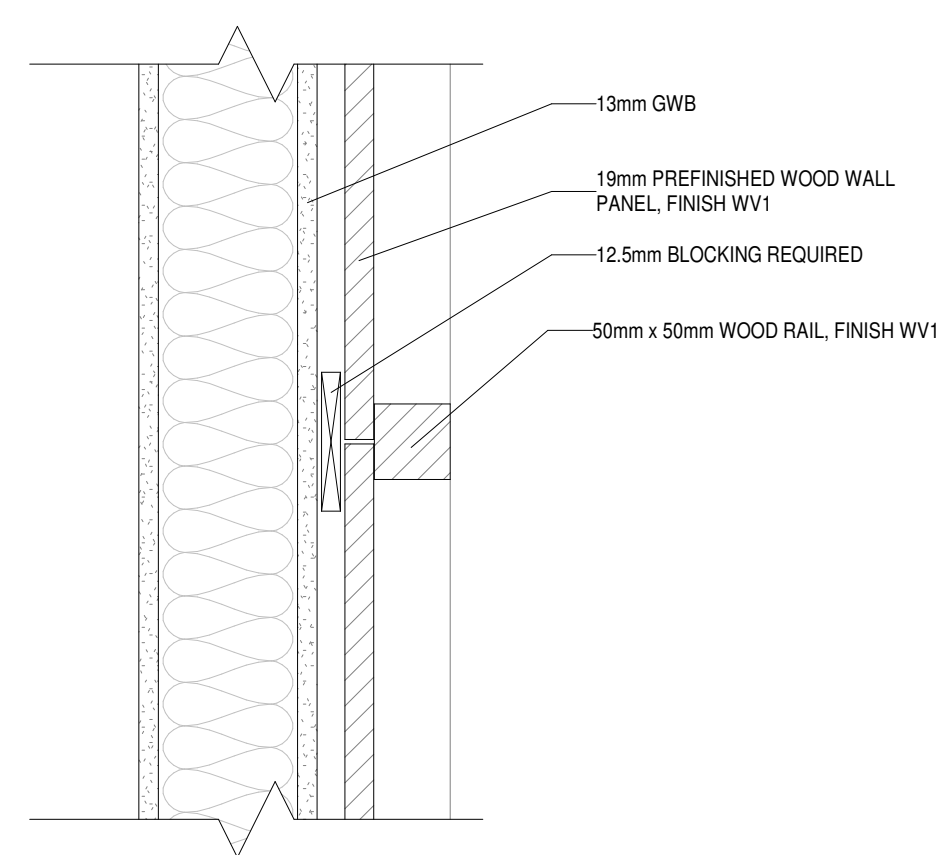
**6 CEILING DETAIL**  
A-205 1 : 10



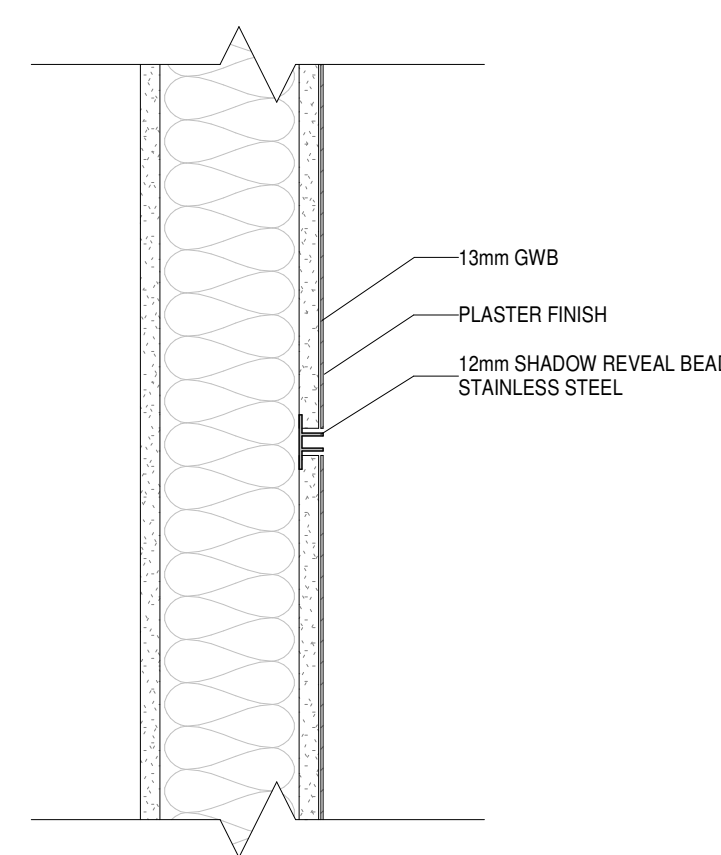
**7 MULLION TO GLAZING DETAIL**  
A-205 1 : 10



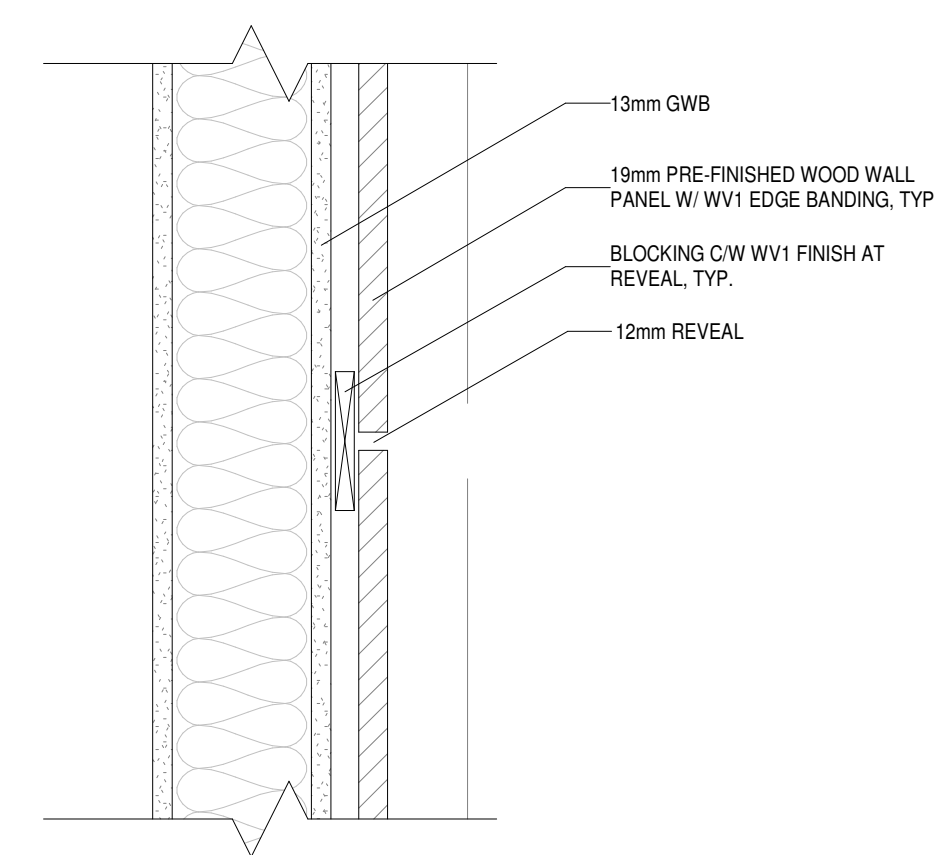
**8 DETAIL - MULLION TO MULLION**  
A-205 1 : 5



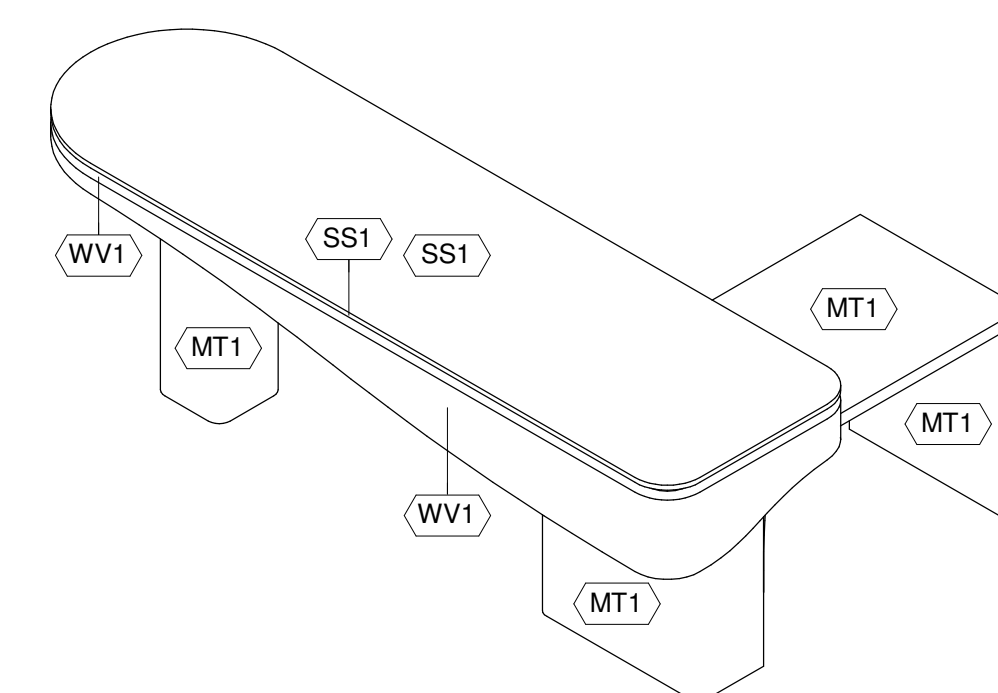
**9 WALL FINISH DETAIL**  
A-205 OFFICE WOOD WALL PANEL 1 : 5



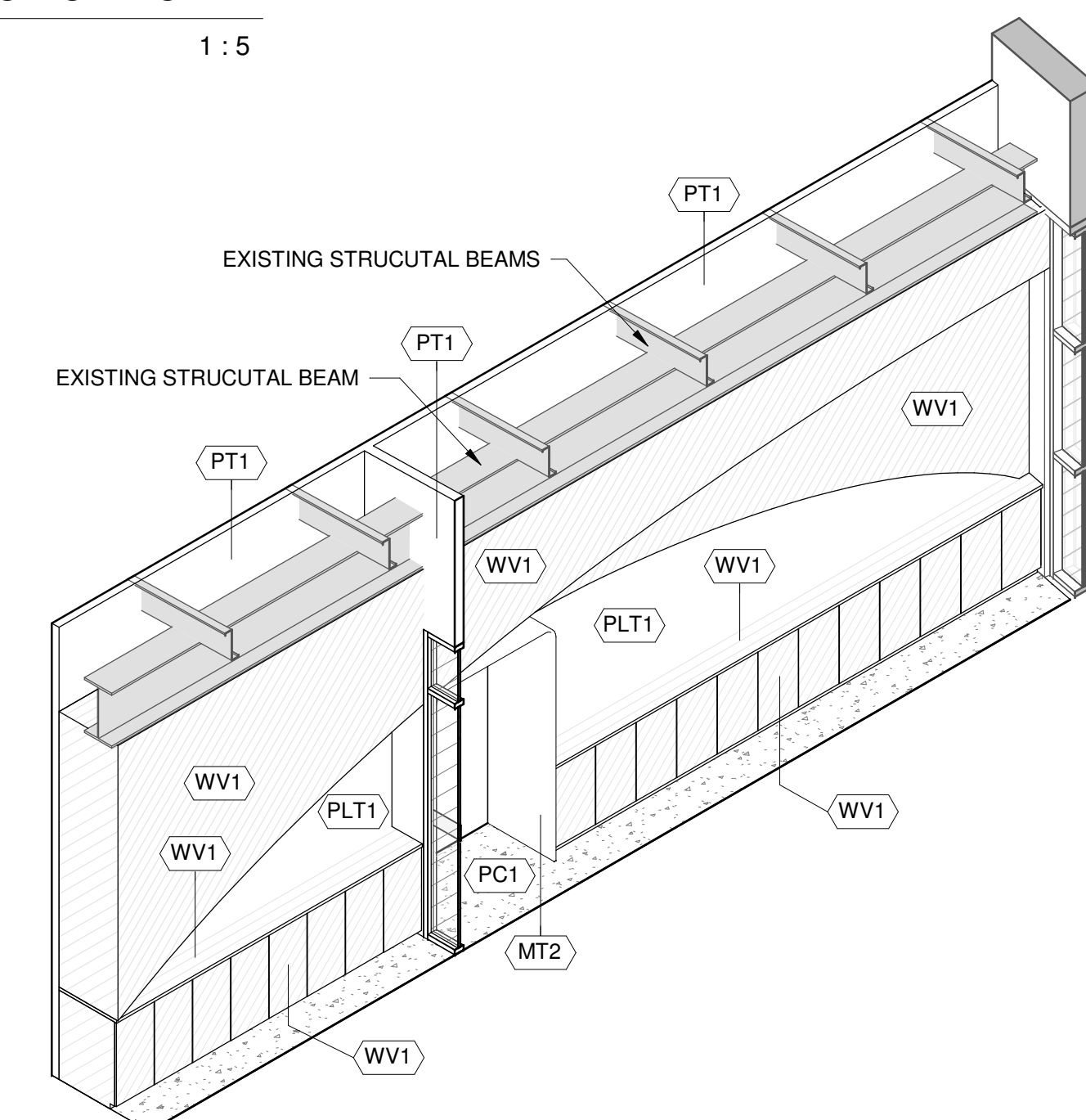
**10 WALL FINISH DETAIL**  
A-205 PLASTER REVEAL 1 : 5



**11 WALL FINISH DETAIL**  
A-205 MEETING WOOD WALL PANEL 1 : 5



**12 ISOMETRIC DETAIL - UBT**  
A-205



**13 ISOMETRIC DETAIL - MEETING ROOM AND UBT WALL**  
A-205

**NOTES**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

ISSUE: 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

SCALE: As indicated

DRAWN BY: RAC/AMK

CHECKED BY/OA: JO AK

PROJECT NO: 19-02

**DRAWING CONTENTS**

**INTERIOR DETAILS**

SHEET NUMBER

**A-205**

FINISH SCHEDULE - WALLS			
TAG	TYPE	LOCATION	SPECIFICATIONS
FRP1	FIBERGLASS REINFORCED PLASTIC	JANITOR	MANUFACTURER: PANOLAM SURFACE SYSTEMS PRODUCT: FIBERGLASS REINFORCED PLASTIC COLOUR: WHITE
GF1	GLAZING FILM		MANUFACTURER: M3 (BASIS FOR DESIGN) COLOUR: WHITE DESIGN: CONTINUOUS TRANSLUCENT HORIZONTAL STRIPE THICKNESS: 150MM CONTRACTOR TO SUPPLY AND INSTALL. REFER TO ELEVATION 1/A-203 AND 2/A-203 FOR MORE INFORMATION.
GL1	ARCHITECTURAL GLASS		MANUFACTURER: TBD COLOUR: CLEAR TEMPERED THICKNESS: 10mm EDGE FINISH: FLAT POLISH
GL2	ARCHITECTURAL GLASS		MANUFACTURER: TBD TYPE: CURVED LAMINATED GLASS THICKNESS: 10mm EDGE FINISH: FLAT POLISH
MT2	METAL FINISH		MANUFACTURER: TBD FINISH: MATTE BLACK ANNOXIDIZED ALUMINUM NOTES: PROVIDE SAMPLE TO DESIGNER FOR APPROVAL.
PLT1	PLASTER FINISH	MEETING ROOM, UNIVERSAL BANKER TABLE, STAFF	MANUFACTURER: INTERIORS TO INSPIRE MODEL: RAKED ACRYLIC PLASTER TO MATCH CONTROL SAMPLE COLOUR: TO MATCH BENJAMIN MOORE OC-28 COLLINGWOOD INSTALLATION: VERTICAL DIRECTION NOTES: PREPARE SURFACE TO LEVEL 5 FINISH. PROVIDE SAMPLE TO DESIGNER FOR APPROVAL PRIOR TO INSTALLATION.
PLT2	PLASTER FINISH	MEETING ROOM	MANUFACTURER: INTERIORS TO INSPIRE MODEL: HAND TROWELED LIMESTONE PLASTER TO MATCH CONTROL SAMPLE (254/351) COLOUR: TO MATCH BENJAMIN MOORE OC-28 COLLINGWOOD NOTES: PREPARE SURFACE TO LEVEL 5 FINISH. PROVIDE SAMPLE TO DESIGNER FOR APPROVAL PRIOR TO INSTALLATION.
PT1	FIELD PAINT		MANUFACTURER: BENJAMIN MOORE COLOUR: OC-23 CLASSIC GRAY FINISH: EGG SHELL FOR WALLS, SEMI GLOSS FOR DOORS AND FRAMES.
PT2	ACCENT PAINT	STAFF, OPEN CEILING	MANUFACTURER: BENJAMIN MOORE COLOUR: 2125-10 BLACK PANTHER FINISH: EGG SHELL
RB1	RUBBER WALL BASE		MANUFACTURER: JOHNSONITE MODEL: MANDALAY SIZE: 4.5" COLOUR: 27 MIST NOTES: TOELESS
RB2	RUBBER WALL BASE	STAFF	MANUFACTURER: JOHNSONITE MODEL: MANDALAY SIZE: 4.5" COLOUR: 82 BLACK PEARL NOTES: TOELESS
SS2	STONE SURFACE	STAFF	MANUFACTURER: CAESARSTONE COLOUR: ALPINE MIST 5110 FINISH: POLISHED THICKNESS: 30MM EDGE: EASED
VW1	VINYL WALL GRAPHIC	ATM VESTIBULE	MANUFACTURER: TBD PATTERN: CUSTOM WALL GRAPHIC COLOUR: CUSTOM SIZE: FULL WALL
WP1	WALL PROFILE	WASHROOM	MANUFACTURER: SHLUTER MODEL: A 60 AT SIZE: 6mm FINISH: SATIN NICKEL
WT1	WALL TILE	WASHROOM	MANUFACTURER: STONE TILE MODEL: TIPOS COLOUR: SAND FINISH: STRUCTURED SIZE: 30CM x 60CM INSTALLATION: VERTICALLY STACKED
WV1	WOOD VENEER	VARIOUS	MANUFACTURER: BACON VENEER SPECIES: TEAK, QUARTER CUT FLINCH: 496321 FINISH: CLEAR LACQUER 30° NOTES: REFERENCE NUMBER 3003547. CENTER BOOKMATCHED. PROVIDE SAMPLE TO DESIGNER FOR APPROVAL.

FINISH SCHEDULE - FLOORS			
TAG	TYPE	LOCATION	SPECIFICATIONS
CT1	AREA RUG	MEETING	MANUFACTURER: EGE MODEL: IRON BROWN PRODUCT NUMBER: RF55001039 QUALITY: HIGHLINE 1100 BACKING: WT - WOVEN TEXTILE EDGING: NYLON SERGED EDING TO MATCH OTHER: PROVIDING SEAMING LOCATIONS AND DIAGRAM TO DESIGNER FOR APPROVAL.
LVT1	LUXURY VINYL TILE	OFFICES	MANUFACTURER: SHAW CONTRACT COLLECTION: STRATUM EVT STYLE: STRATUM 500 023UV COLOUR: OCONEE WALNUT 00507 DIMENSIONS: 12.5CM W x 122CM L x 8MM THICK INSTALLATION: ASHLAR COMMENTS:
PC1	POLISHED CONCRETE	VARIOUS; REFER TO FLOOR FINISH PLAN	MANUFACTURER: TBD NOTES: DEEP CUT WITH 800 DIAMOND GRIT FINISH.
TS1	TRANSITION STRIP		MANUFACTURER: SHLUTER MODEL: RENO-U COLOUR: AT SATIN NICKEL ANODIZED ALUMINUM SIZE: 8MM SITE VERIFY NOTES: CONCRETE TO LVT
TS2	TRANSITION STRIP		RESERVED.
WM1	WALK-OFF MAT	VESTIBULE	MANUFACTURER: EDGEWOOD MATTING MODEL: DEBRIS TRAP TILE COLOUR: #25 GREY OTHER: INCLUDE ALUMINUM MAT DIVIDERS

FINISH SCHEDULE - CEILINGS			
TAG	TYPE	LOCATION	SPECIFICATIONS
CN1	NEW GWB CEILING	VARIOUS	MANUFACTURER: NA MODEL: NA COLOUR: TO BE PAINTED PT1
CN2	NEW T-BAR GRID & TILE	OFFICES & MEETING ROOM	MANUFACTURER: ARMSTRONG MODEL: LYRA TENGULAR (REVEAL) WITH 9/16" SUPRAFINE SUSPENSION COLOUR: SMOOTH WHITE SIZE: 24" x 48"mm
CN3	NEW FEATURE CEILING	UNIVERSAL BANKER TABLE	MANUFACTURER: FILZ FELT OR APPROVED EQUAL MODEL: SUSPENDED 3MM WOOL DESIGN FELT COLOUR: 300 ANTHRAXIT COMMENTS: 28MM SPACING BETWEEN FELT CURVES UNO. REFER TO 2/A-601 FOR DETAILS. SUBMIT SAMPLE TO DESIGNER FOR APPROVAL.
MT2	METAL FINISH		MANUFACTURER: TBD FINISH: MATTE BLACK ANNOXIDIZED ALUMINUM NOTES: PROVIDE SAMPLE TO DESIGNER FOR APPROVAL.
OPEN	EXISTING OPEN CEILING		MANUFACTURER: NA COLOUR: TO BE PAINTED PT2 NOTES: PAINT UNDERSIDE OF DECK AND DUCT WORK.

FINISH SCHEDULE - DOORS			
TAG	TYPE	LOCATION	SPECIFICATIONS
GF1	GLAZING FILM		MANUFACTURER: M3 (BASIS FOR DESIGN) COLOUR: WHITE DESIGN: CONTINUOUS TRANSLUCENT HORIZONTAL STRIPE THICKNESS: 150MM CONTRACTOR TO SUPPLY AND INSTALL. REFER TO ELEVATION 1/A-203 AND 2/A-203 FOR MORE INFORMATION.
GL1	ARCHITECTURAL GLASS		MANUFACTURER: TBD COLOUR: CLEAR TEMPERED THICKNESS: 10mm EDGE FINISH: FLAT POLISH
MT2	METAL FINISH		MANUFACTURER: TBD FINISH: MATTE BLACK ANNOXIDIZED ALUMINUM NOTES: PROVIDE SAMPLE TO DESIGNER FOR APPROVAL.
PT1			

FINISH SCHEDULE - MILLWORK			
TAG	TYPE	LOCATION	SPECIFICATIONS
FB1	FABRIC	COFFEE & WAITING	MANUFACTURER: MAHARAM MODEL: CANVAS BY KVADRAT PRODUCT CODE: 466185-424
FB2	FABRIC	COFFEE & WAITING	MANUFACTURER: ARC-COM STYLE: DRIFTER PRODUCT CODE: AC-63632 COLOUR: ONYX #23
H1	HARDWARE	STAFF	MANUFACTURER: RICHELIEU MODEL: CONTEMPORARY ALUMINUM EDGE PULL 9898 SIZE: 192MM COLOUR: BRUSHED BLACK
LF1	LACQUEUR FINISH	STAFF	MANUFACTURER: TBD COLOUR: COLOUR TO MATCH BENJAMIN MOORE 2145-20 TERRAPIN GREEN FINISH: 30° SHEEN NOTES: SHOP FINISH. PROVIDE SAMPLE TO DESIGNER FOR APPROVAL.
MT1	METAL FINISH	COFFEE & WAITING	MANUFACTURER: TBD MATERIAL: BRUSHED STAINLESS STEEL FINISH: 180 GRIT NOTES: SUBMIT SAMPLE TO DESIGNER FOR APPROVAL PRIOR TO FABRICATION.
PL1	PLASTIC LAMINATE	WASHROOM	MANUFACTURER: ARBORITE COLOUR: BLACK S405 FINISH: RM REFINED MATTE OTHER: TBD
SS1	STONE SURFACE	UNIVERSAL BANKER TABLE & WASHROOM	MANUFACTURER: STONE TILE MATERIAL: SLATE SLAB FINISH: JAGGED/BRUSHED THICKNESS: 20MM SLAB OTHER: SEAL STONE WITH MANUFACTURER RECOMMENDED SEALER. DESIGNER TO APPROVE SLAB SELECTION PRIOR TO FABRICATION.
SS2	STONE SURFACE	STAFF	MANUFACTURER: CAESARSTONE COLOUR: ALPINE MIST 5110 FINISH: POLISHED THICKNESS: 30MM EDGE: EASED
WV1	WOOD VENEER	VARIOUS	MANUFACTURER: BACON VENEER SPECIES: TEAK, QUARTER CUT FLINCH: 496321 FINISH: CLEAR LACQUER 30° NOTES: REFERENCE NUMBER 3003547. CENTER BOOKMATCHED. PROVIDE SAMPLE TO DESIGNER FOR APPROVAL.

**CONSULTANTS**

Mechanical:



Electrical:



**SEALS**

**NOT FOR CONSTRUCTION**

**NOTES**

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**PROJECT TITLE**

**CONNECT FIRST  
- RED DEER  
INTERIOR RENO**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE: 4**

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

**SCALE:**

**DRAWN BY:** RAC/AMK

**CHECKED BY/OA:**  JO  AK

**PROJECT NO:** 19-02

**DRAWING CONTENTS**

**FINISH  
SCHEDULE**

**SHEET NUMBER**

DOOR SCHEDULE

TAG	ROOM INFORMATION		DOOR DETAIL	DOOR					FRAME				REQUIREMENTS			HARDWARE GROUP
	FROM ROOM	TO ROOM		DOOR TYPE	DOOR FINISH	WIDTH	HEIGHT	THICKNESS	FRAME DETAIL	FRAME TYPE	FRAME FINISH	WALL THICKNESS	FIRE RATED	POWER	SECURITY	
101	VESTIBULE	UNIVERSAL BANKER TABLE	D1	SINGLE EGRESS AUTOMATIC SLIDING GLASS DOOR W/ EMERGENCY EXIT FUNCTION	GL1 + GF1	1050	2438	10	F1	CASED ALUMINUM FRAME	MT2	118mm	No	Yes	Yes	001
104	UNIVERSAL BANKER TABLE	ATM	D2	SINGLE SWING SOLID CORE WOOD DOOR	PT1	865	2135	45	F2	PRESSED DOUBLE RABBET STEEL FRAME	PT1	118mm	Yes	No	Yes	003
105	UNIVERSAL BANKER TABLE	MEETING	D3	DOUBLE SLIDING GLASS DOOR	GL1 + GF1	2150	2438	10	F1	CASED ALUMINUM FRAME	MT2	118mm	No	No	No	002
108	CORRIDOR	STAFF	D4	SINGLE SLIDING SOLID CORE WOOD BARN DOOR	PT1	915	2438	45	F3	DOUBLE RABBET WOOD FRAME	PT1	118mm	No	No	No	004
109	STAFF	CLOSET	D5	DOUBLE SWING SOLID COOR WOOD DOOR	PT1	915	2438	45	F3	DOUBLE RABBET WOOD FRAME	PT1	118mm	No	No	No	005
110	STAFF	ELECTRICAL CLOSET	D5	DOUBLE SWING SOLID CORE WOOD DOOR	PT1	915	2438	45	F3	DOUBLE RABBET WOOD FRAME	PT1	118mm	No	No	Yes	006
111	CORRIDOR	WASHROOM	D2	SINGLE SWING SOLID CORE WOOD DOOR	PT1	867	2438	45	F3	DOUBLE RABBET WOOD FRAME	PT1	118mm	No	No	Yes	007
112	JANITOR	WASHROOM	D2	SINGLE SWING HOLLOW METAL DOOR	PT1	759	2438	45	F3	DOUBLE RABBET WOOD FRAME	PT1	118mm	Yes	No	Yes	003
114	CORRIDOR	OFFICE	D6	SINGLE SLIDING GLASS DOOR	GL1 + GF1	915	2438	10	F1	CASED ALUMINUM FRAME	MT2	118mm	No	No	No	008
115	CORRIDOR	OFFICE	D6	SINGLE SLIDING GLASS DOOR	GL1 + GF1	915	2438	10	F1	CASED ALUMINUM FRAME	MT2	118mm	No	No	No	008
116	CORRIDOR	OFFICE	D6	SINGLE SLIDING GLASS DOOR	GL1 + GF1	915	2438	10	F1	CASED ALUMINUM FRAME	MT2	118mm	No	No	No	008
117	CORRIDOR	OFFICE	D6	SINGLE SLIDING GLASS DOOR	GL1 + GF1	950	2438	10	F1	CASED ALUMINUM FRAME	MT2	118mm	No	No	No	008

HARDWARE SCHEDULE

SET	HARDWARE ASSEMBLY
001	1 Automatic Breakout Egress Sliding Glass Door c/w Electric Solenoid Lock Stanley Dura-Glide 2000 Single Slide Finish: Black Anodized Aluminum Operator: Door Kit Inclusive of Power Operator *EMERGENCY EXIT FUNCTION
002	4 Door Pull RM3301-36 Mtg-Type 5 US32D RO *SLIDING DOOR HARDWARE TO BE PROVIDED BY ALUMINUM GLAZING SYSTEM SUPPLIER.
003	3 Hinge TA714 NRP 4-1/2" x 4" US26D MK 1 Storeroom Lock 8204 LNMD US26D SA 1 Door Closer DA 351 UO EN SA 1 Door Stop 442 US26D RO 1 Gasketing S88W 17' PE 1 Sweep 18062CNB PE
004	1 Sliding System BLD-FT-02IS 6' PE 1 Flush Pull 94Px94L US32D RO
005	6 Hinge TA714 4-1/2" x 4" US26D MK 2 Single Dummy Trim 7U93 LNMD US26D SA 2 Roller Latch 592 US26D RO
006	6 Hinge TA714 4-1/2" x 4" US26D MK 2 Flush Bolt 555 US26D RO 1 Storeroom Lock 8204 LNMD US26D SA
007	3 Hinge TA714 4-1/2" x 4" US26D MK 1 Privacy Lock 49 8265 LNMD US26D SA 1 Door Closer DA 351 UO EN SA 1 Door Stop 442 US26D RO
008	2 Door Pull RM3301-36 Mtg-Type 5 BSP RO *SLIDING DOOR HARDWARE TO BE PROVIDED BY ALUMINUM GLAZING SYSTEM SUPPLIER.

**lemay + TOKER**  
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 340 12 Avenue SW  
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 www.lemaytoker.com  
 Lemay + Toker is a trade name owned and used by  
 Toker + Associates Architecture Industrial Design Ltd.

**CONSULTANTS**  
 Mechanical:  
  
 consulting mechanical engineers  
 Electrical:  


**SEALS**  
 NOT FOR CONSTRUCTION

DOOR / HARDWARE GENERAL NOTES:

- SEE DOOR & HARDWARE GENERAL NOTES ON THE "A0." SERIES OF DRAWINGS.
- FOR FINISHES SPECIFICATIONS, SEE MATERIAL LIST ON DRAWING "A0." SERIES OF DRAWINGS.
- FOR SPECIFICATIONS ON RELATED ELECTRICAL ITEMS REFER TO ELECTRICAL DRAWINGS.
- ALL HOLLOW METAL DOORS TO BE INSULATED FOR SOUND.
- ALL DOORS WITH A PAINTED FINISH TO BE TYPE PT1, UNO.
- ALL DOOR FRAMES WITH A PAINTED FINISH TO BE TYPE PT1, UNO.
- ALL EXISTING BASE BUILDING METAL DOORS TO BE TYPE PT1 ON THE PUBLIC CORRIDOR FACE, UNO.
- MAKE GOOD & REFINISH TO AS-NEW CONDITION ALL DOORS & DOOR FRAMES WHICH ARE TO REMAIN AS DESCRIBED IN DOOR TYPES. SUPPLY & INSTALL NEW DOORS & DOOR FRAMES AS SPECIFIED.
- MAKE GOOD ALL EXISTING DOOR HARDWARE WHICH IS TO BE REUSED. ALL HARDWARE TO BE COMMERCIAL GRADE & TO MEET ALBERTA BUILDING CODE REQUIREMENTS. SUPPLY & INSTALL NEW HARDWARE AS SPECIFIED.

- NOTES**
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PROJECT TITLE

**CONNECT FIRST - RED DEER INTERIOR RENO**

Unit 110  
 6005 67A Street  
 Red Deer, AB  
 T4P 2Z9

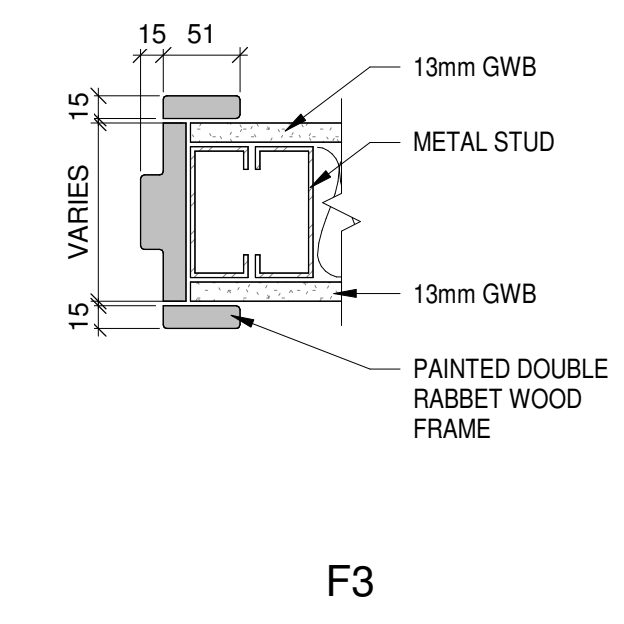
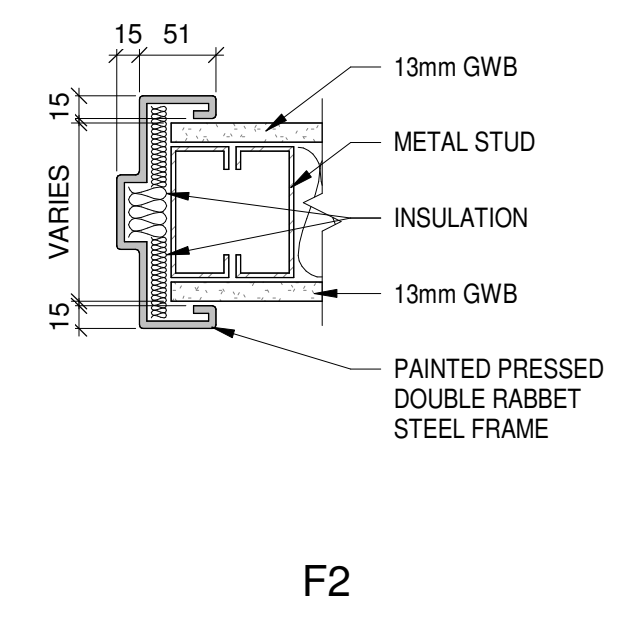
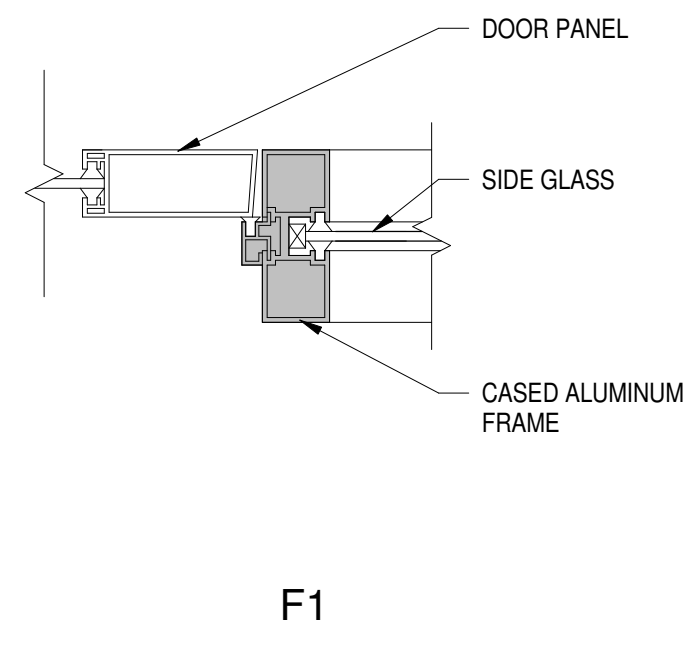
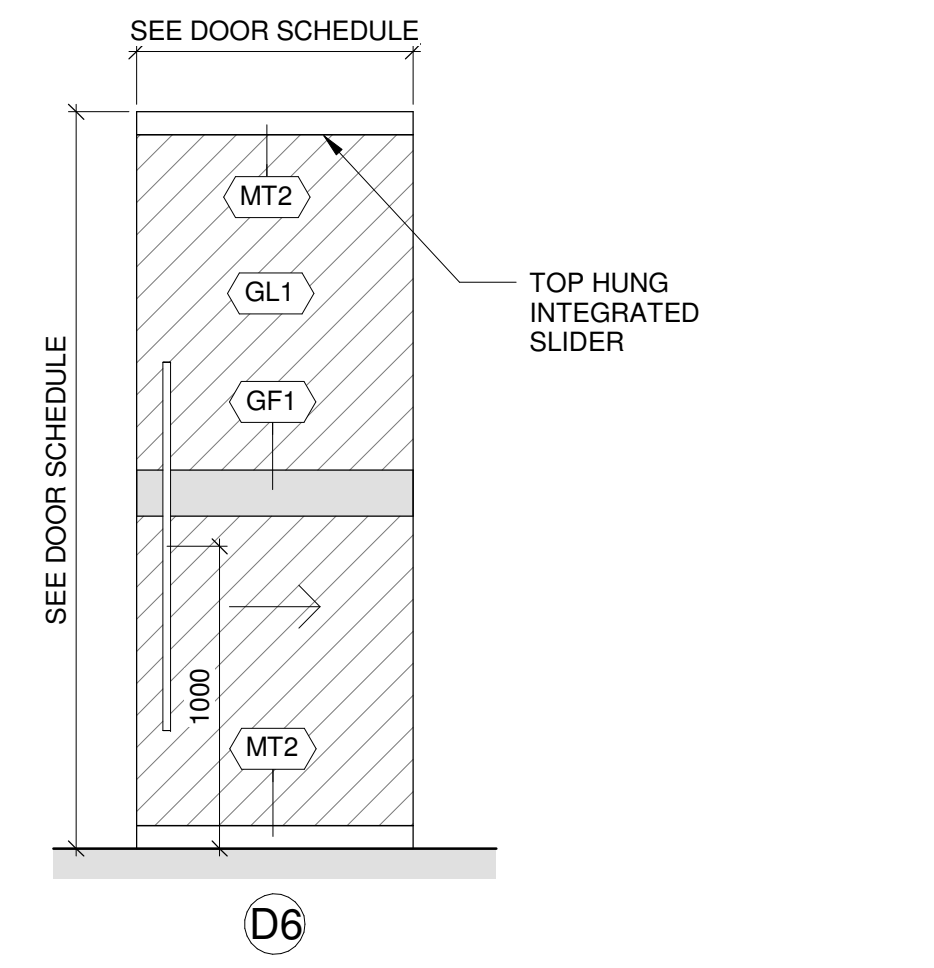
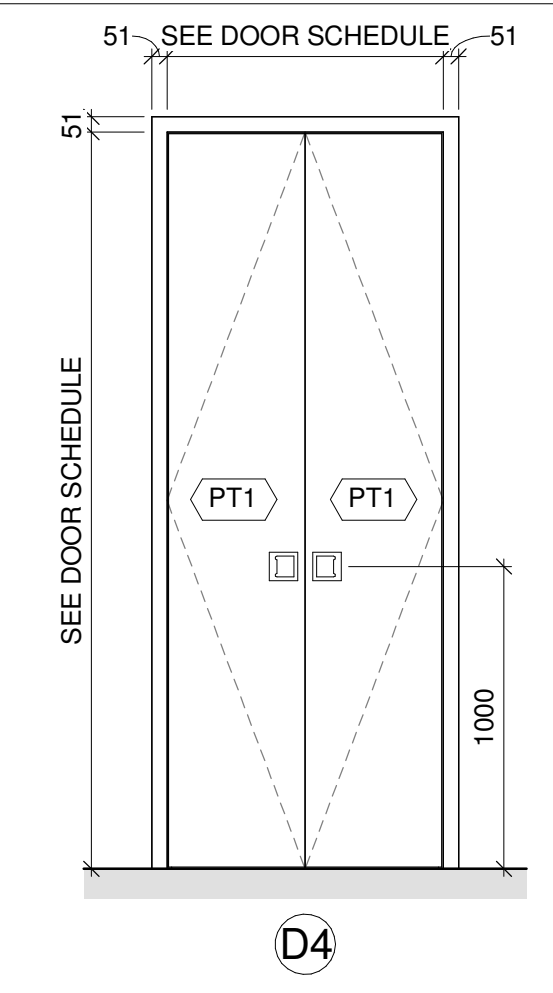
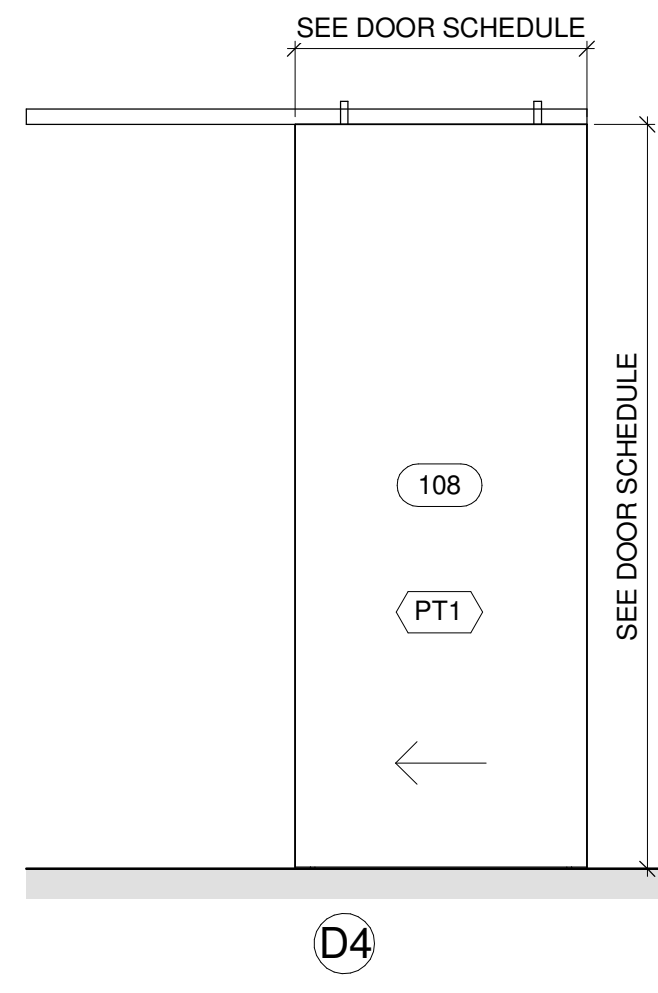
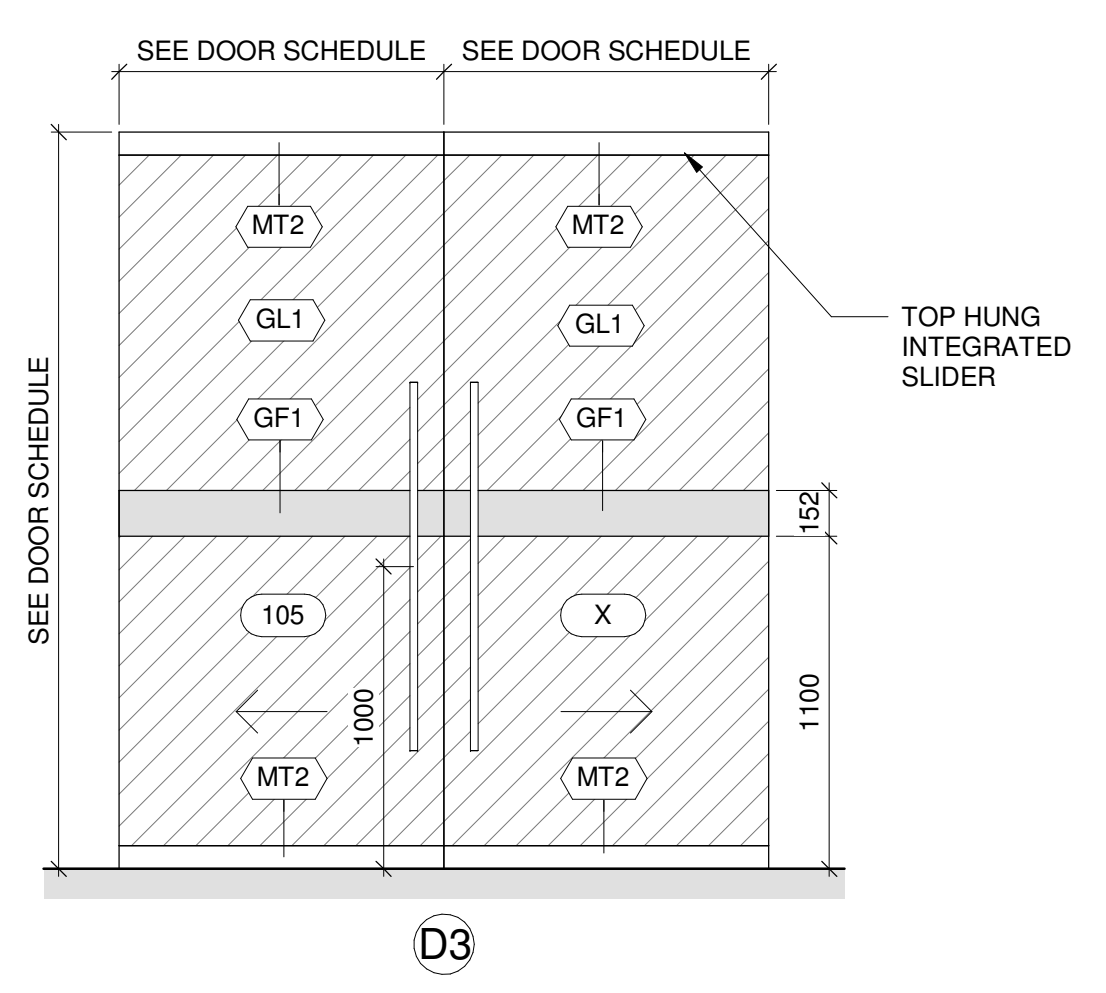
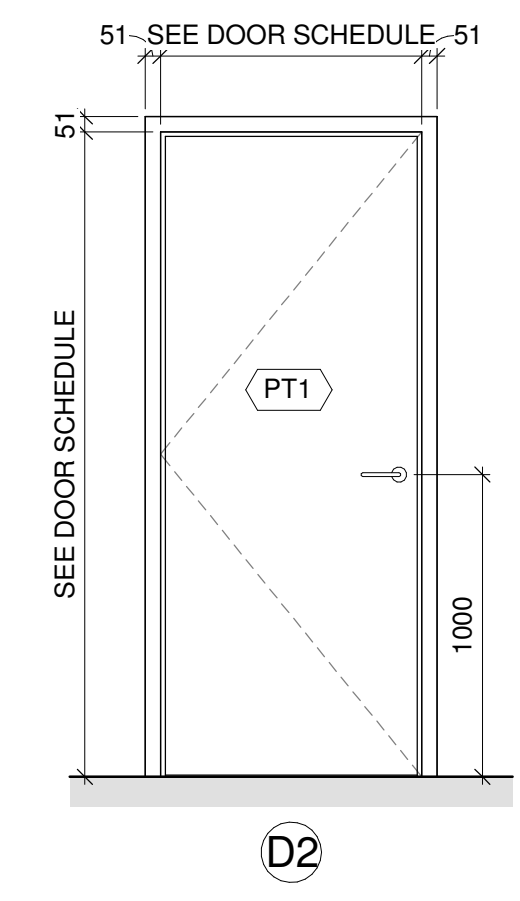
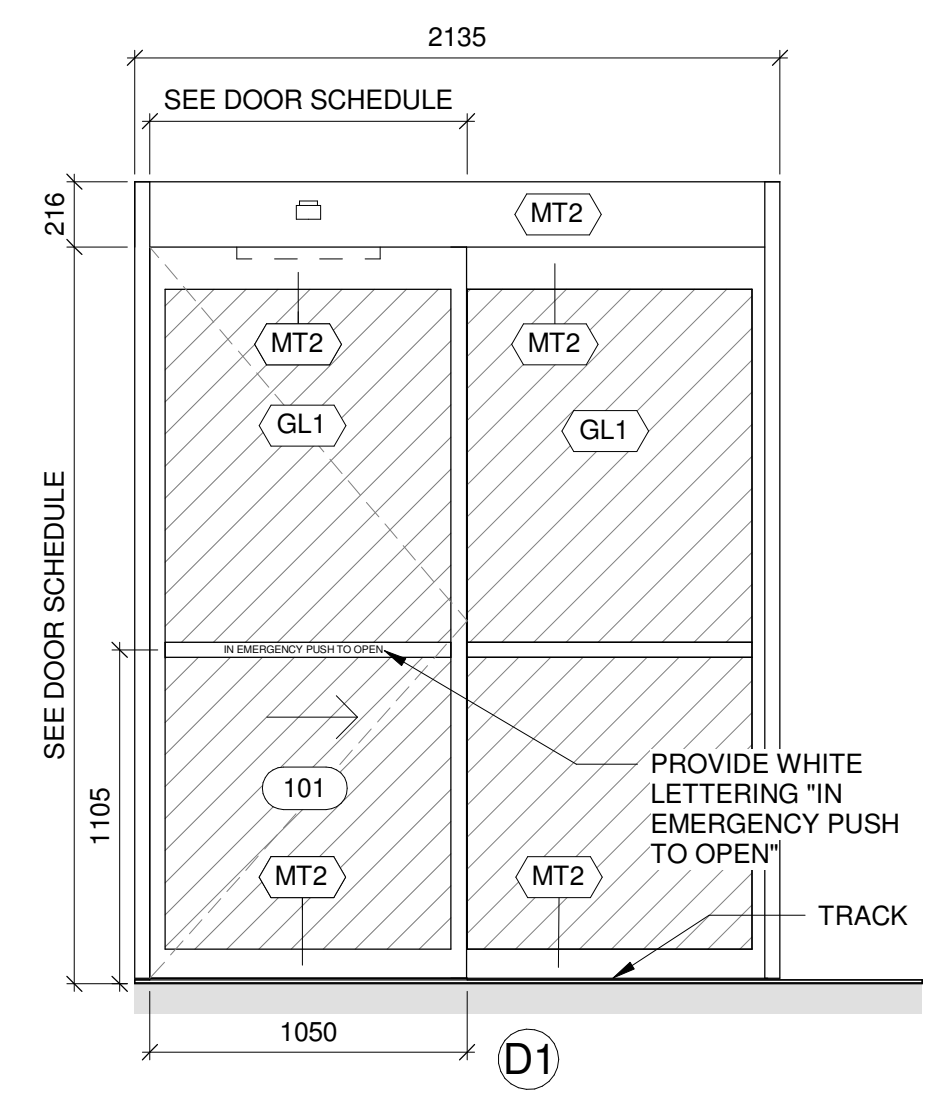
ISSUE: 4

No.	Date	Description
4	2019-07-11	ISSUED FOR TENDER
3	2019-07-03	ISSUED FOR 95% REVIEW

SCALE: As indicated  
 DRAWN BY: RAC/AMK  
 CHECKED BY/OA: JO AK  
 PROJECT NO: 19-02

**DOOR / HARDWARE SCHEDULES**

SHEET NUMBER **A-610**



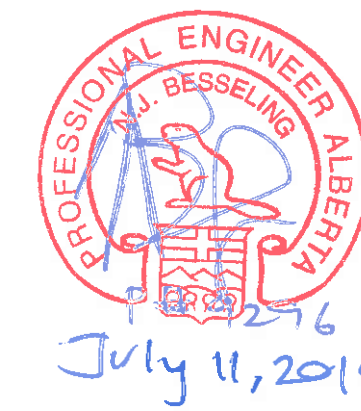


**CONSULTANTS**



Electrical:

**SEALS**



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**PROJECT TITLE**

**CONNECT FIRST - RED DEER**

**ISSUE: 2**

No.	Date	Description
2	07/11/19	ISSUED FOR BP / TENDER
1	07/03/19	REVIEW 95%

**SCALE:** As indicated

**DRAWN BY:** CE

**CHECKED BY/QA:** BL

**PROJECT NO:** 223c-004-19

**DRAWING CONTENTS**

**MECHANICAL LEGENDS, EQUIPMENT SCHEDULES AND DRAWING LIST**

**SHEET NUMBER**

**M001**

DWG #	TITLE	SCALE
M001	SYMBOL LEGEND & MECHANICAL SCHEDULES	NTS
M201	PLUMBING & FIRE PROTECTION PLAN	1:100
M401	MECHANICAL HVAC PLAN	NTS
M701	MECHANICAL DETAILS	NTS
M801	MECHANICAL SPECIFICATION	NTS

SYMBOL SCHEDULE			SYSTEM MONITORING		
DEMOLITION	EXISTING	NEW	DEMOLITION	EXISTING	NEW
<b>DUCTWORK</b>			<b>FIRE PROTECTION</b>		
<b>FITTINGS AND VALVES</b>			<b>EQUIPMENT TAGS</b>		

EQUIPMENT TAG	EQUIPMENT DESCRIPTION	EQUIPMENT LOCATION	QTY	LOAD			V	PH	EQUIPMENT			STARTER			CONTROL			INTERLOCK		EMER.	REMARKS
				MCA	MOC	HP			S	I	C	TYPE	S	I	C	TYPE	WITH	TYPE	POWER		
FF-1	FORCE FLOW HEATER (ELECTRIC)	ATM VESTIBULE, STAFF EXIT	2	2 KW	-	-	208	1	M	M	E	INT	M	M	E	TSTAT	-	-	N	1,2,3	
BBH-1	BASEBOARD HEATER (ELECTRIC)	JANITORIAL	1	1 KW	-	-	120	1	M	M	E	INT	M	M	E	TSTAT	-	-	N	1,2	
BBH-2	BASEBOARD HEATER (ELECTRIC)	WASHROOM & SECURE ROOM	2	2 KW	-	-	208	1	M	M	E	INT	M	M	E	TSTAT	-	-	N	1,2,3	
DC-1	CENTRAL DAMPER CONTROLLER	ELECTRICAL CLOSET	1	FRAC	-	-	24	1	M	M	E	INT	M	M	E	TSTAT	-	-	N	1,2	

**DEFINITIONS:**  
 MAN = MANUAL STARTER  
 HOA = MAGNETIC STARTER C/W HAND/OFF/AUTO SWITCH & AUX STATUS CONTACTS  
 MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS  
 INT = INTEGRAL PART OF UNIT  
 VFD = VARIABLE FREQUENCY DRIVE  
 SW = WIRED TO WALL SWITCH/STARTER (SUPPLIED AND WIRED BY ELEC)  
 LINE = LINE VOLTAGE THERMOSTAT (120V) (SUPPLIED BY MECH AND WIRED BY ELEC)  
 TSTAT = LOW VOLTAGE THERMOSTAT (24V) (SUPPLIED AND WIRED BY MECH)

**NOTES:**  
 1) ALL DISCONNECT SWITCHES BY ELEC  
 2) SINGLE POINT CONNECTION TO UNIT  
 3) TO BE HARDWIRED

EQUIPMENT TAG	QTY	SERVICE	TYPE	MANUFACTURER	MODEL	AIR FLOW (LPS)	E. S. P. (PA)	FAN (RPM)	DUCT SIZE (IN)	AMPS	DRIVE TYPE	MAX WATTS	V/PH/Hz	NOTES
EF-1	1	WASHROOM	CEILING	BROAN	SP100	51	0.25	2850	6" RD	0.5	DIRECT	60	120/1/60	1,2,3

**NOTES:**  
 1 OPERATING 24/7  
 2 COMPLETE WITH BACKDRAFT DAMPER  
 3 INLINE EXHAUST FAN, LOCATION TO BE COORDINATED ON SITE

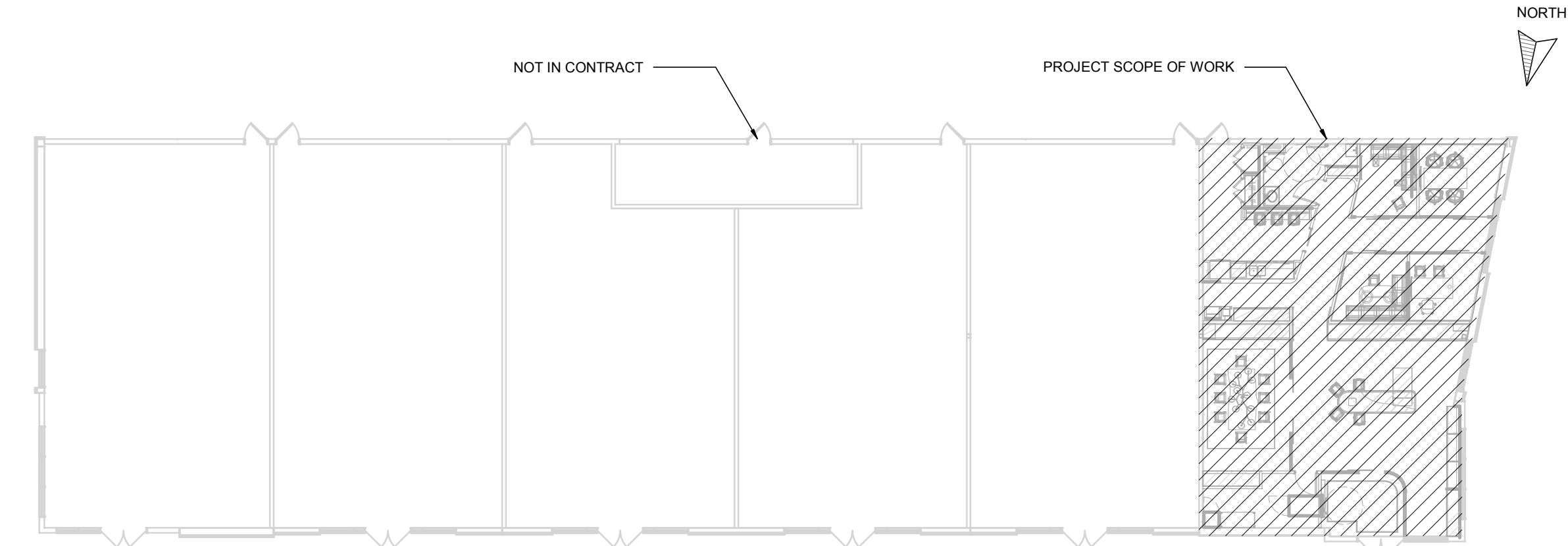
EQUIPMENT TAG	DESCRIPTION/TYPE	MANUFACTURER	SERVICE	MODEL NUMBER	NOTES
S-1	ROUND CONE DIFFUSER	NAILOR	THROUGHOUT	RNR-L-BK	1,2
S-2	SQUARE CONE DIFFUSER	NAILOR	OFFICES	5010-CTD-F	ALL
S-3	LINEAR SLOT DIFFUSER	NAILOR	THROUGHOUT	5010-C-BK	ALL
S-4	LINEAR SLOT DIFFUSER	NAILOR	THROUGHOUT	5010-C-BK	ALL
R-1	LINEAR SLOT DIFFUSER	NAILOR	OFFICE	SOLO-C-BK	ALL
E-1	EGGCRATE FACE RETURN	NAILOR	WASHROOM	EC	2

**NOTES:**  
 1 C/W BALANCING DAMPER WHEN NOT SHOWN IN DUCT WORK  
 2 PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS  
 3 C/W SLOPED SHOULDER PLENUM

EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	INPUT (KW)	TANK CAPACITY (L)	RECOVERY CAPACITY TEMP RISE 55°C (LPH)	POWER (V/PH)	SHIPPING WEIGHT (KG)	DIAMETER (mm)	HEIGHT (mm)	REMARKS
DHWT-1	JANITORIAL ROOM CEILING	AO SMITH	DEL-20	6	75	91	208/1/60	33	552	565	ALL

**NOTES:**  
 1. GLASS LINED TANK  
 2. TEMPERATURE CONTROL  
 3. TEMPERATURE AND PRESSURE GAUGE  
 4. TEMPERATURE AND PRESSURE RELIEF VALVES  
 5. ULC APPROVED AND ASME RATED  
 6. CERTIFIED MAX. 150PSI WORKING PRESSURE  
 7. TEMPERATURE LIMITING CONTROL  
 8. C/W FLOOD-MASTER RS-094 VALVE. WIRED SENSOR LOCATED IN DHWT DRIP PAN

EQUIPMENT TAG	MANUFACTURER / MODEL	DESCRIPTION/TYPE	NOTES
WC-1	TOTO / CST484CEMFG	FLOOR MOUNTED, 4.8LPF, C/W FLUSH TANK	
LV-1	KOHLER VERTICYL RECTANGLE K-2882	GEOMETRIC RECTANGULAR BASIN WITH VERTICAL SIDES, INSTALL UNDER-MOUNT	
SK-1	FRANKIE / CUBE CUX120	DUAL COMPARTMENT, STAINLESS STEEL CONSTRUCTION	
JS-1	MOEN / ALIGN 7565	SINGLE HANDLE, PULL DOWN KITCHEN FAUCET, 1 HOLE, 38MM DIAMETER	
JS-1	EAGLE / F1916-VSCS	SINGLE MOP SINK STORAGE CABINET, 430 STAINLESS STEEL	
DHWT-1	AO SMITH DEL-20	75L ELECTRIC DOMESTIC HOT WATER TANK, 91LPH, 208/1/60, GLASS LINED	
ICW-1	MOUNTAIN FRESH CANADA OASIS / RS	3 STAGE FILTRATION SYSTEM, 0.2, 0.4 MICRON FILTERS COMBINED WITH CARBON FILTER	
ICW-1	MOUNTAIN FRESH CANADA TAP	13.6L/H CHILLING UNIT	
FD-1	WATTS / FD-100-CA	CROME, LONG 150MM REACH, CHROME PLATED, BRASS CONSTRUCTION, SINGLE LINE CONNECTION	
FD-1	WATTS / FD-100-CA	EPOXY COATED CAST IRON FLOOD DRAIN WITH ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP WITH PRIMARY AND SECONDARY WEEP HOLES, 6 MM THICK ADJUSTABLE NICKEL BRONZE STRAINER, PIPE SIZES 75 MM	



**1 SITE PLAN**  
M001 SCALE: 1:200

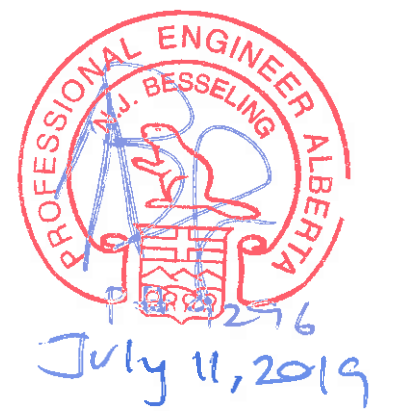
**CONSULTANTS**

Mechanical:



Electrical:

**SEALS**



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**PROJECT TITLE**

**CONNECT FIRST  
- RED DEER**

**ISSUE: 2**


2	07/11/19	ISSUED FOR BP / TENDER
1	07/03/19	REVIEW 95%
No.	Date	Description

**SCALE:** As indicated

**DRAWN BY:** CE

**CHECKED BY/QA:** BL

**PROJECT NO:** 223c-004-19

**DRAWING CONTENTS**

**PLUMBING AND  
FIRE  
PROTECTION  
PLAN**

**SHEET NUMBER**

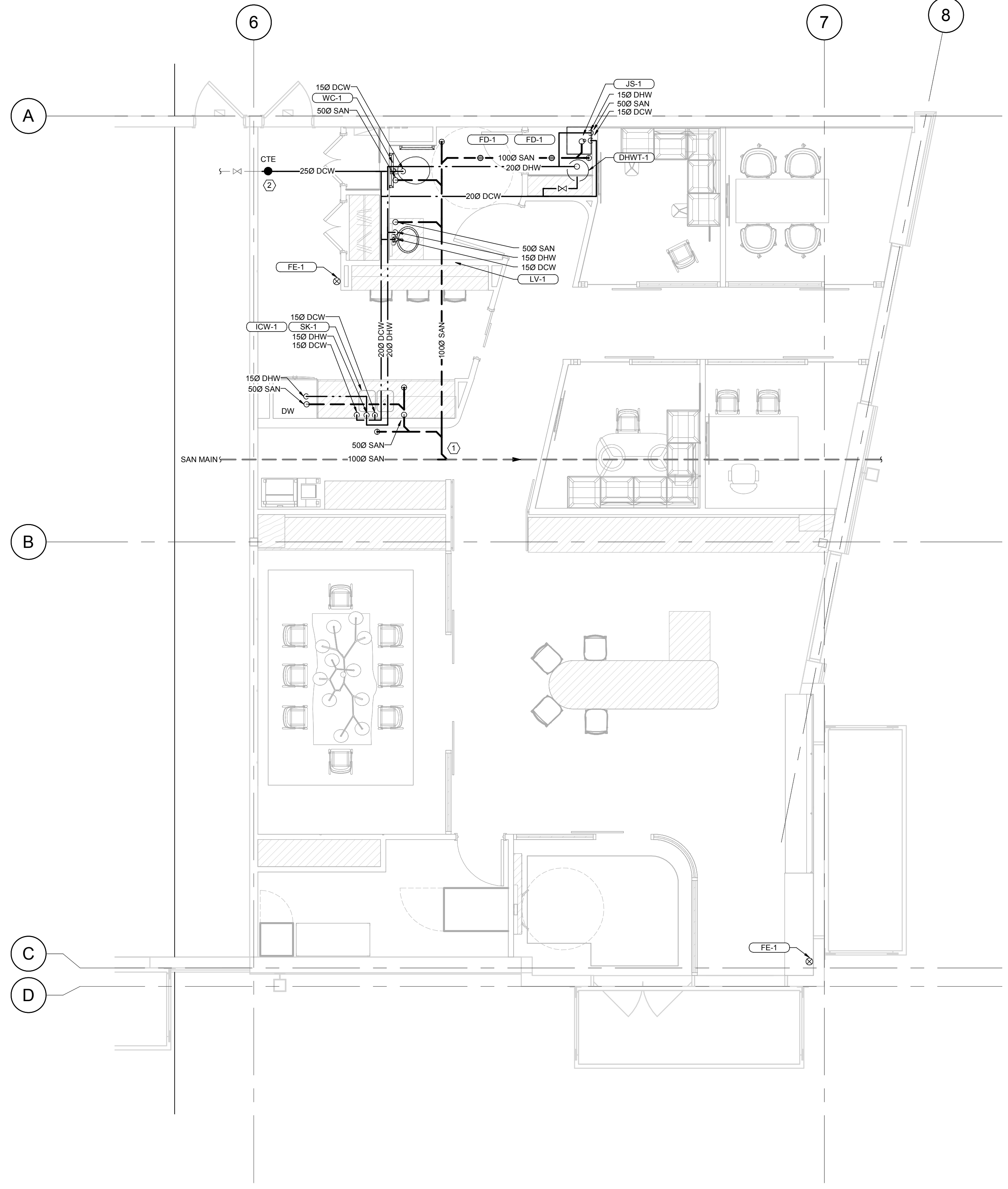
**M201**

**PLUMBING AND FIRE PROTECTION KEY NOTES:**

- CUT SLAB TO SUIT NEW DRAINAGE BRANCH. COORDINATE WITH ARCHITECT. CONNECT TO EXISTING SANITARY MAIN. REFER TO STRUCTURAL.
- CONNECT TO EXISTING WATER MAIN LOCATED ON NORTH WALL. EXACT LOCATION TO BE COORDINATED ON SITE.

**PLUMBING NOTES**

- PLUMBING LINE CONNECTION POINTS TO BASE BUILDING SERVICES AT CORE ARE SHOWN AS APPROXIMATE LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE EXISTING SERVICES AND VERIFYING CONNECTION LOCATIONS PRIOR TO INSTALLATION. ADDITIONAL COST TO THE PROJECT WILL NOT BE ALLOWED FOR ANY ALTERATION OF THE CONNECTION POINTS TO BASE BUILDING SERVICES.
- CONTRACTOR TO PATCH AND MAKE GOOD ALL CEILINGS REQUIRING DEMOLITION FOR THE INSTALLATION OF PLUMBING.
- PROVIDE LOCAL ISOLATION VALVES FOR ALL PLUMBING FIXTURES.
- CONTRACTOR TO ALLOW SCANNING, CORING AND PATCHING OF THE FLOOR AS REQUIRED. COORDINATE WITH BASE BUILDING.
- ALL PENETRATIONS INTO THE EXISTING BASE BUILDING CORE AND THROUGH PROPOSED FIRE RATED SEPARATIONS SHALL BE FIRE STOPPED.
- AUTOMATIC TRAP PRIMERS FOR ALL REQUIRED FLOOR DRAINS (FD-1). MODULE TO BE LOCATED IN JANITORIAL ROOM.



1 PLUMBING AND FIRE PROTECTION PLAN  
M201 SCALE: 1 : 50

**CONSULTANTS**



Electrical:

**SEALS**



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1	07/03/19	REVIEW 95%

SCALE: As indicated

DRAWN BY: CE

CHECKED BY/QA: BL

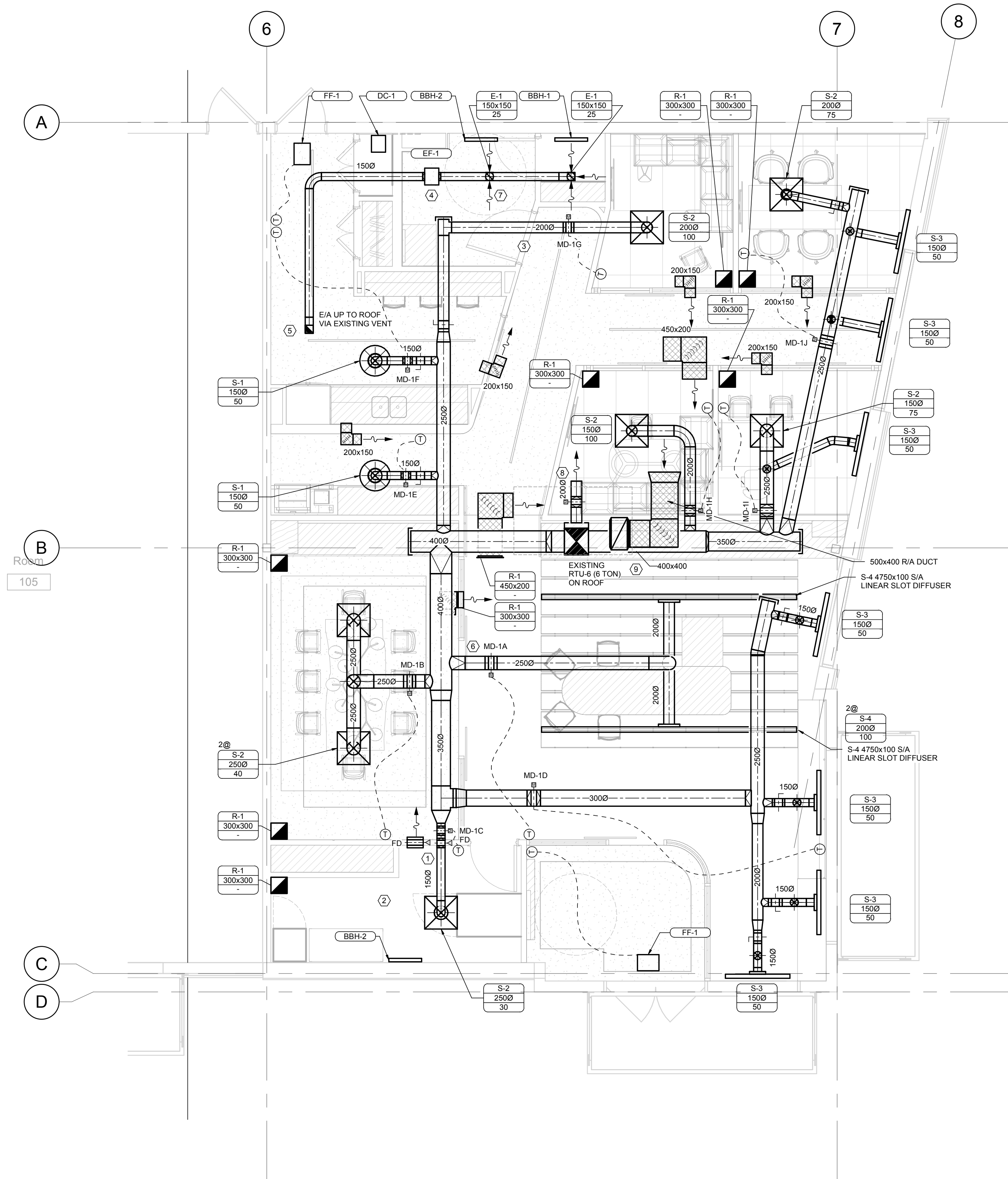
PROJECT NO: 223c-004-19

**DRAWING CONTENTS**

**MECHANICAL  
HVAC PLAN**

SHEET NUMBER

**M401**



**1 MECHANICAL HVAC PLAN**  
SCALE: 1:50

- HVAC KEY NOTES:**
- CONTRACTOR TO INSTALL BURGLAR BARS ON INSIDE OF SECURE ROOM SUPPLY AIR DUCT AND TRANSFER AIR DUCT.
  - SECURE ROOM FIRE RATED FOR ONE HOUR.
  - UNDERCUT DOOR. REFER TO ARCHITECTURAL DRAWINGS.
  - EXHAUST FAN (EF-1) CONTROLS TO BE INTEGRATED WITH LIGHT SWITCH. CONTRACTOR TO PROVIDE ACCESS TO EF-1 IN WASHROOM.
  - EXISTING ROOF JACK VENT FOR EXHAUST AIR.
  - PROVIDE ACCESS TO MOTORIZED DAMPERS. TYPICAL OF ALL.
  - EXHAUST AIR GRILL E-1 TO BE CW BALANCING DAMPERS. TYPICAL OF 2.
  - RELIEF TO CEILING PLENUM CONTROLLED VIA STATIC PRESSURE SENSOR LOCATED IN DUCTWORK AND MOTORIZED DAMPER.
  - CONNECT TO EXISTING DUCT OPENINGS. EXISTING RTU S/A AND R/A OPENING SIZES AND LOCATIONS TO BE CONFIRMED ON SITE. CONTRACTOR TO COORDINATE ON SITE.

- HVAC NOTES**
- EXISTING DUCTWORK LOCATION TO BE VERIFIED ON SITE. THE NEW DUCTWORK TO EXISTING RTU DROPS UNLESS NOTED OTHERWISE.
  - GRILLE MOUNTING TO MATCH CEILING TYPE SPECIFIED BY ARCHITECT.
  - MODIFY THE SIZE AND ROUTING OF NEW DUCTWORK TO SUIT THE NEW SITE CONDITION WITHOUT ADDITIONAL COST TO THE OWNER. PROVIDE ADEQUATE OFFSETS AND TRANSITIONS ON NEW DUCTWORK AS REQUIRED TO SUIT SITE CONDITIONS.
  - CONTRACTOR TO REUSE EXISTING DIFFUSERS AND BALANCING DAMPERS WHERE POSSIBLE. PROVIDE NEW BALANCING DAMPERS ON NEW DUCT TAKE OFFS AS REQUIRED.
  - CONTRACTOR TO CAP OFF ANY UNUSED SUPPLY AIR DUCTWORK.
  - PROVIDE COMPLETE AIR BALANCING OF THE RENOVATED FLOOR. THIS INCLUDES ALL AIR OUTLETS, TERMINAL UNITS AND FANS ON THE FLOOR.
  - CONTRACTOR TO ALLOW FOR ADDITIONAL WIRING/CONTROLS WORK ASSOCIATED TO EXTEND TO ANY RELOCATED MECHANICAL EQUIPMENT TO SUIT NEW LAYOUT.
  - ALL BALANCING DAMPERS ABOVE HARD CEILING AREAS SHALL BE SUPPLIED AND INSTALLED WITH ACCESS PANELS OR PROVIDED WITH A REMOTE OPERATING DEVICE ACTUATED BY SOCKET OR SCREWDRIVER (I.E. YOUNG REGULATOR OR EQUAL).
  - ALL EQUIPMENT ABOVE DRYWALL CEILINGS IS TO HAVE A MINIMUM 450x450 ACCESS PANEL. CONTRACTOR TO INCLUDE SUPPLY AND INSTALLATION. COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED.

**SUB-ZONING SCHEDULE RTU-6**

DESCRIPTION	QUANTITY
GEN II CONTROLLER (DC-1)	1
GEN II THERMOSTAT	10
TRANSFORMER	2
TIME CLOCK	1
ROUND MODULATING DAMPER	10
ELECTRONIC BYPASS DAMPER	1

REMARKS:  
1. ONE (24V 40VA) TRANSFORMER FOR ALL MODULATING DAMPERS AND ONE (24V 40VA) TRANSFORMER FOR BYPASS DAMPER  
2. ELECTRONIC BYPASS DAMPER TO BE TYPE STBP  
3. CENTRAL DAMPERZONE CONTROLLER. ALL ZONE THERMOSTATS WIRED TO CENTRAL CONTROL. CENTRAL CONTROL WIRED TO EXISTING RTU-6.

**SUB-ZONING DAMPER SCHEDULE RTU-6**

TAG	DESCRIPTION	SIZE (mm)
MD-1A	ROUND MODULATING ZONE DAMPER	250
MD-1B	ROUND MODULATING ZONE DAMPER	250
MD-1C	ROUND MODULATING ZONE DAMPER	150
MD-1D	ROUND MODULATING ZONE DAMPER	300
MD-1E	ROUND MODULATING ZONE DAMPER	150
MD-1F	ROUND MODULATING ZONE DAMPER	150
MD-1G	ROUND MODULATING ZONE DAMPER	200
MD-1H	ROUND MODULATING ZONE DAMPER	200
MD-1I	ROUND MODULATING ZONE DAMPER	250
MD-1J	ROUND MODULATING ZONE DAMPER	250

REMARKS:  
1. CONNECT TO INTERLOCKED THERMOSTAT  
2. ALL MODULATING DAMPERS TO BE TYPE STMPD

**CONSULTANTS**



**Electrical:**

**SEALS**



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**PROJECT TITLE**

**CONNECT FIRST  
- RED DEER**

**ISSUE: 2**

No.	Date	Description
2	07/11/19	ISSUED FOR BP / TENDER
1	07/03/19	REVIEW 95%

**SCALE:**

**DRAWN BY:** CE

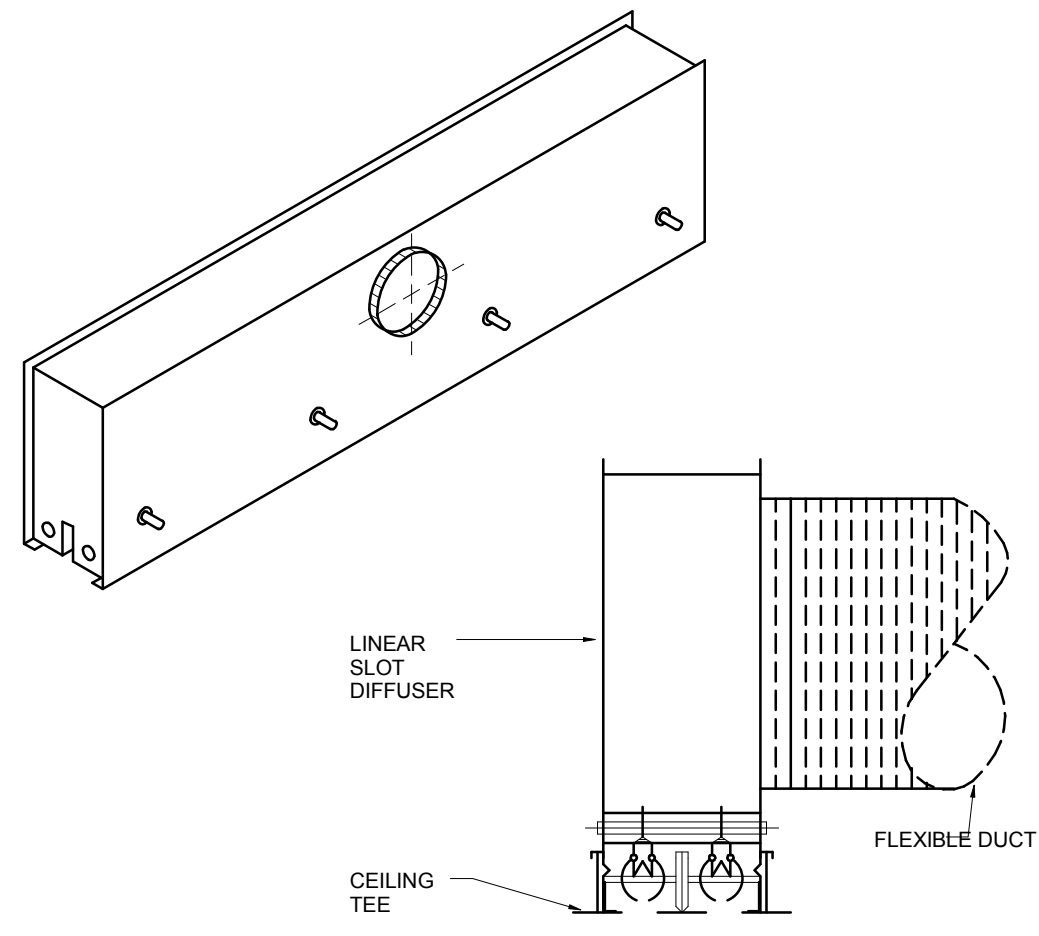
**CHECKED BY/QA:** BL

**PROJECT NO:** 223c-004-19

**DRAWING CONTENTS**

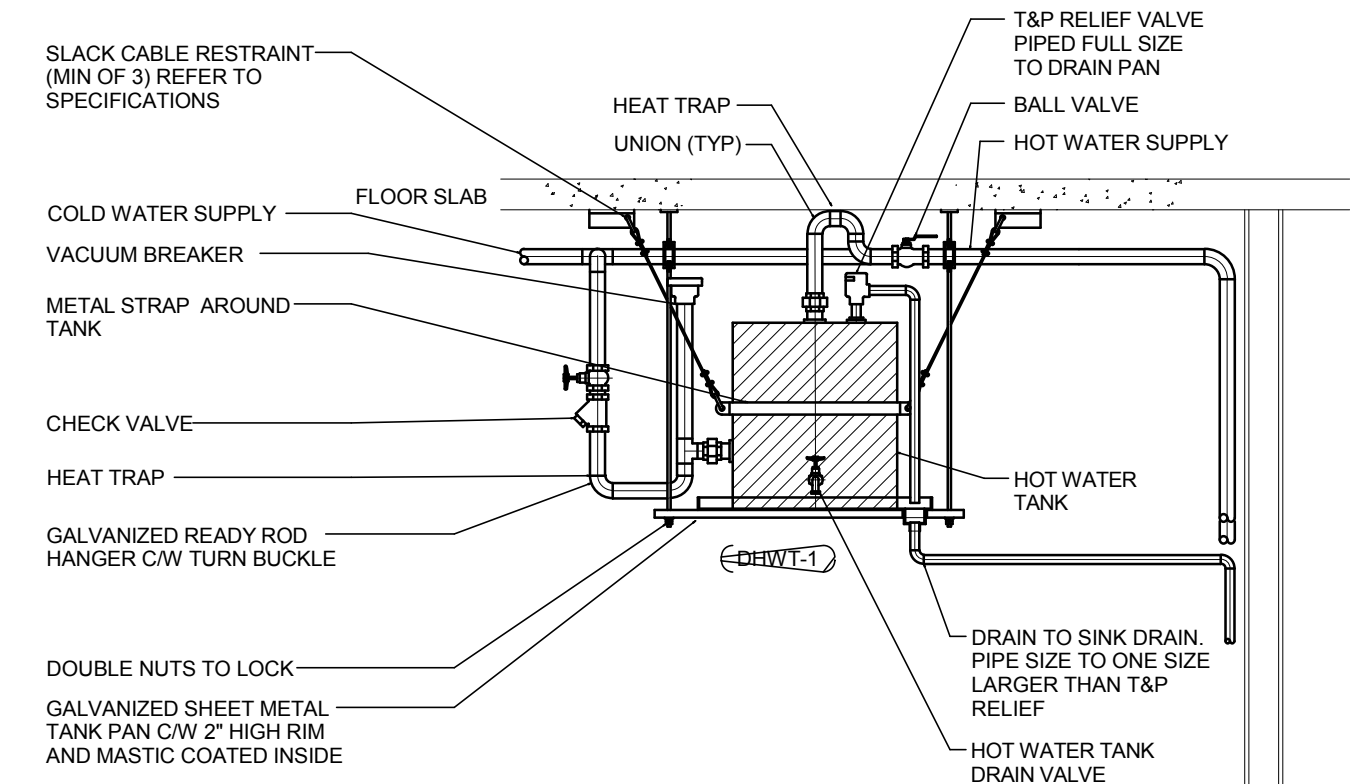
**MECHANICAL  
DETAILS**

**SHEET NUMBER**



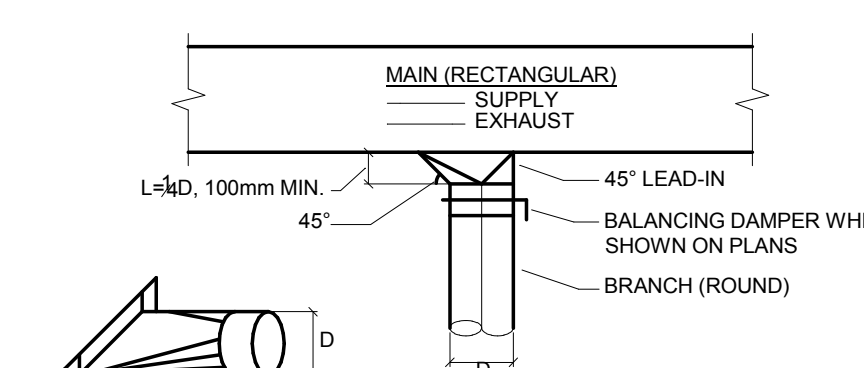
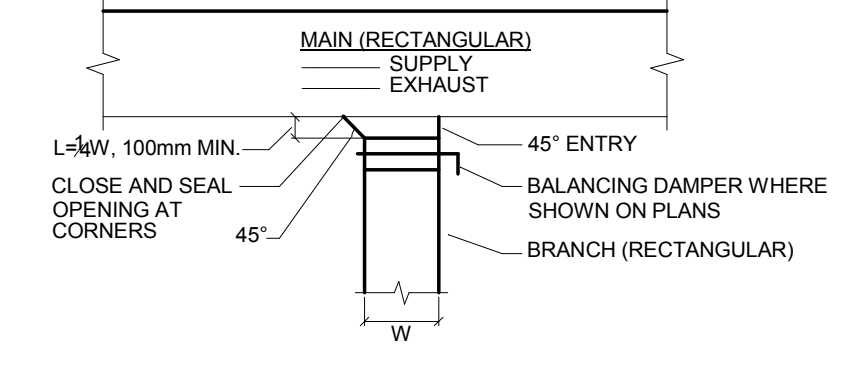
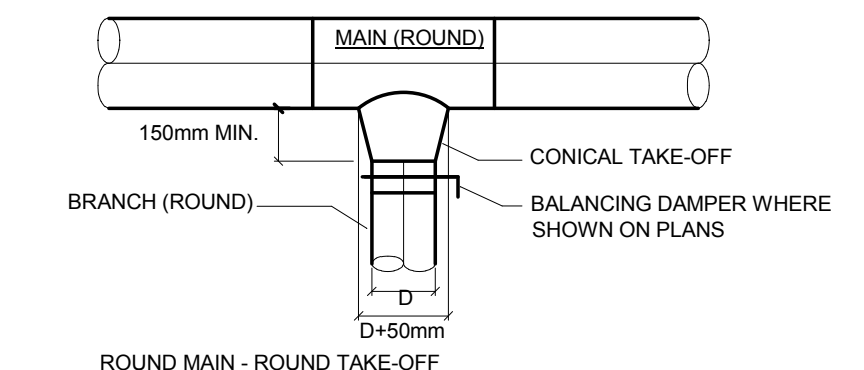
**DETAIL NOTES**  
1. RETURN TYPE LINEAR DIFFUSER SIMILAR TO SUPPLY DIFFUSER BUT WITHOUT PATTERNS CONTROLLERS.

**1 LINEAR TYPE DIFFUSER**  
M701 NOT TO SCALE

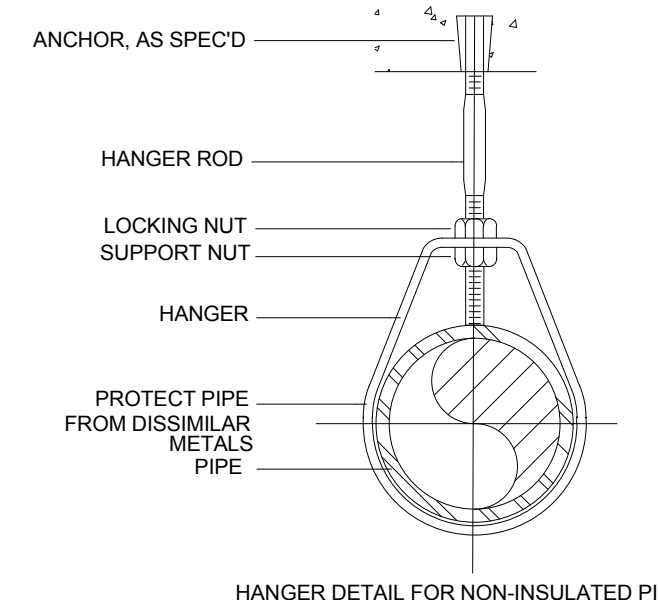


**DETAIL NOTES**  
1. INSTALL TANK AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE ABOVE.  
2. INSTALL IN ACCESSIBLE LOCATION ABOVE T-BAR CEILING.

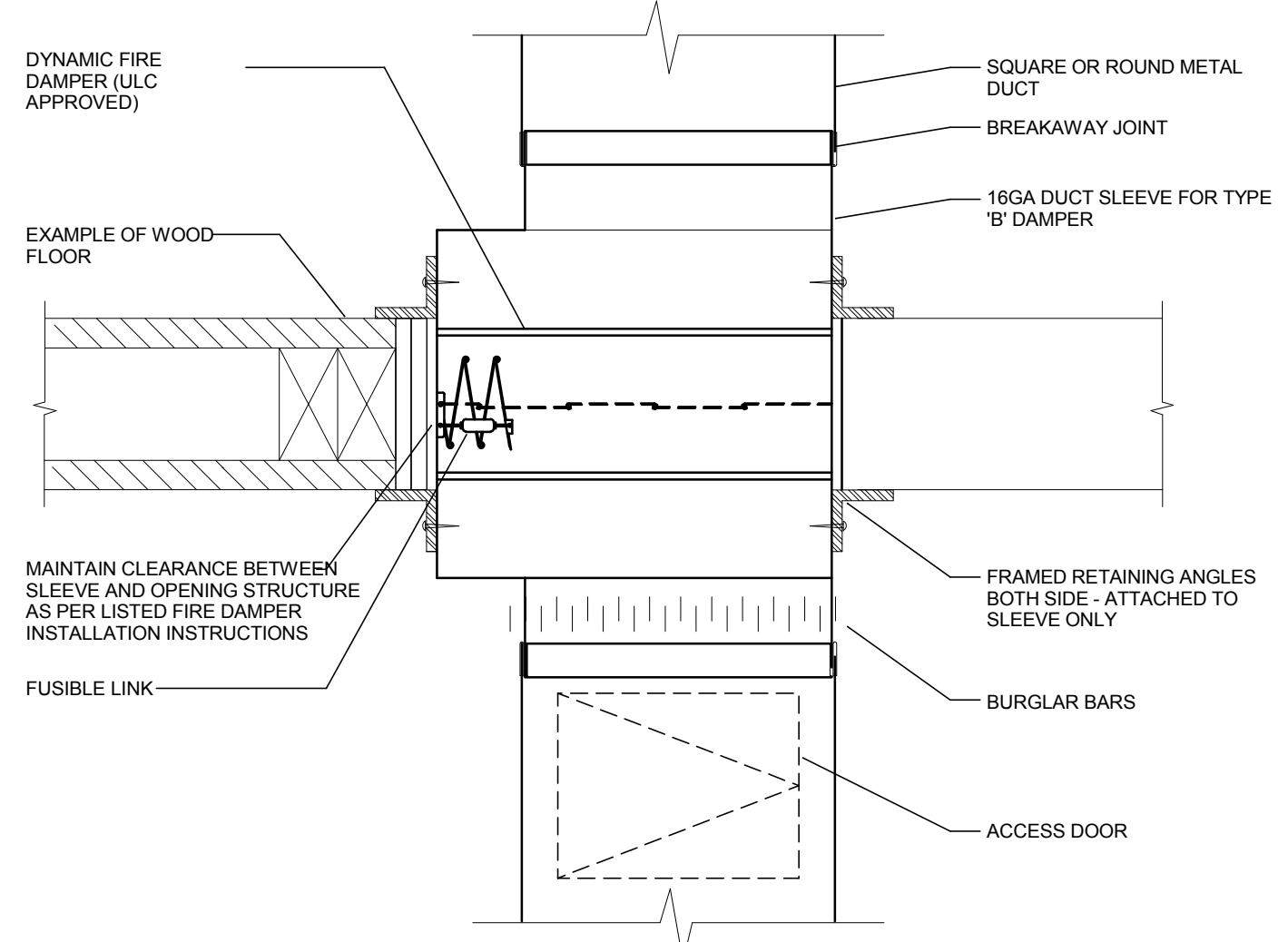
**2 HOT WATER TANK DETAIL**  
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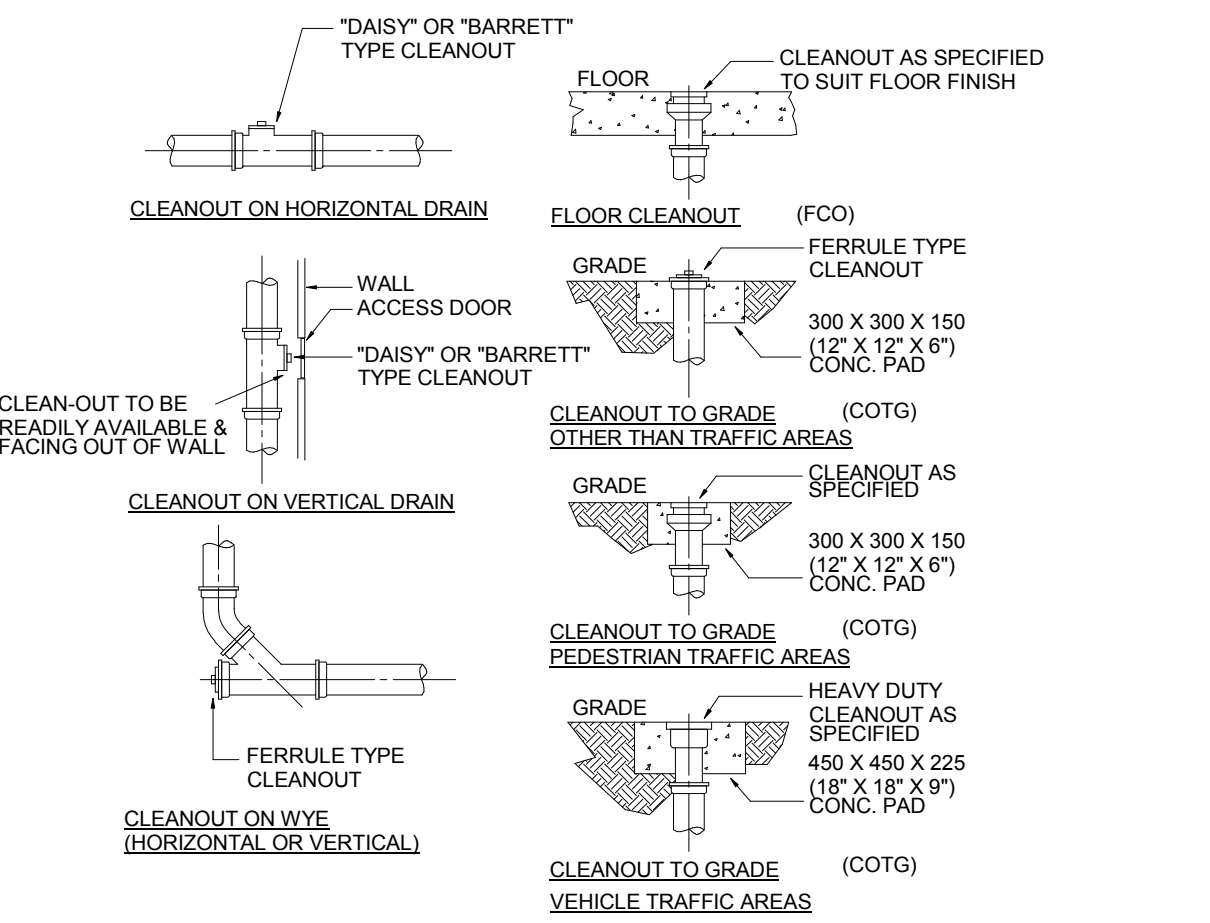
**3 BRANCH TAKE-OFF DETAIL**  
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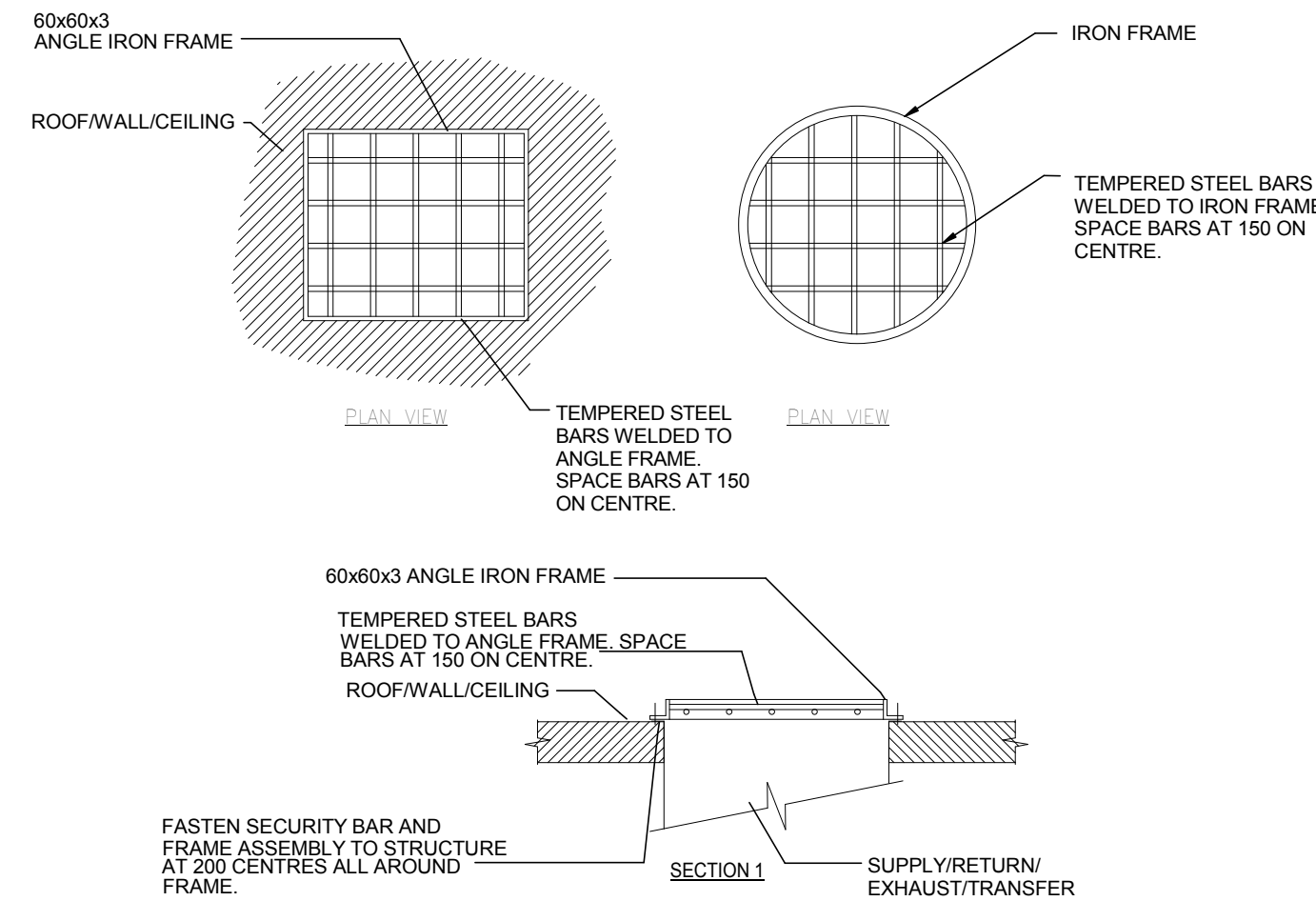
**4 NON-INSULATED PIPE HANGER DETAIL**  
M701 NOT TO SCALE



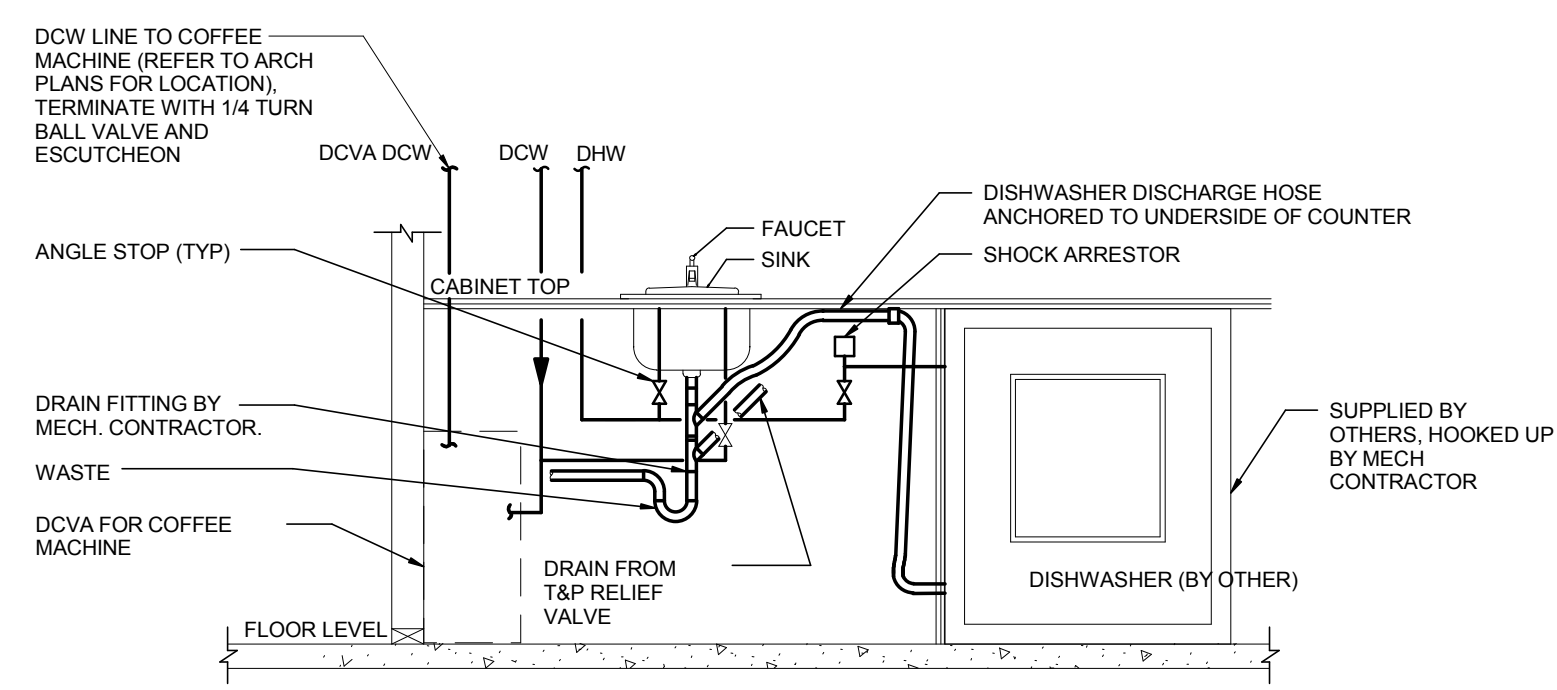
**5 FIRE DAMPER DETAIL**  
M701 NOT TO SCALE



**6 CLEANOUT DETAILS**  
M701 NOT TO SCALE

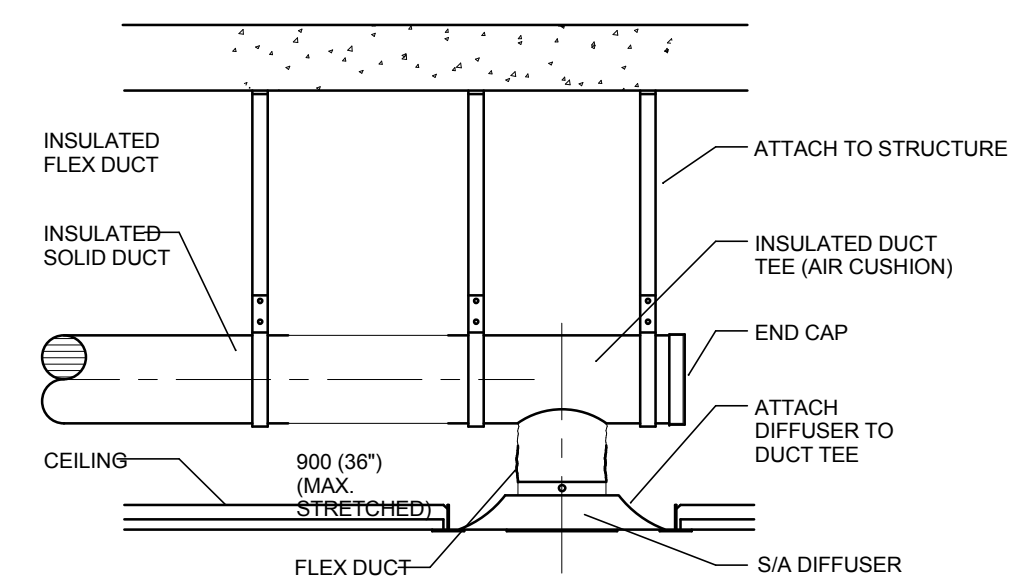


**7 BURGLAR BAR DETAIL**  
M701 NOT TO SCALE

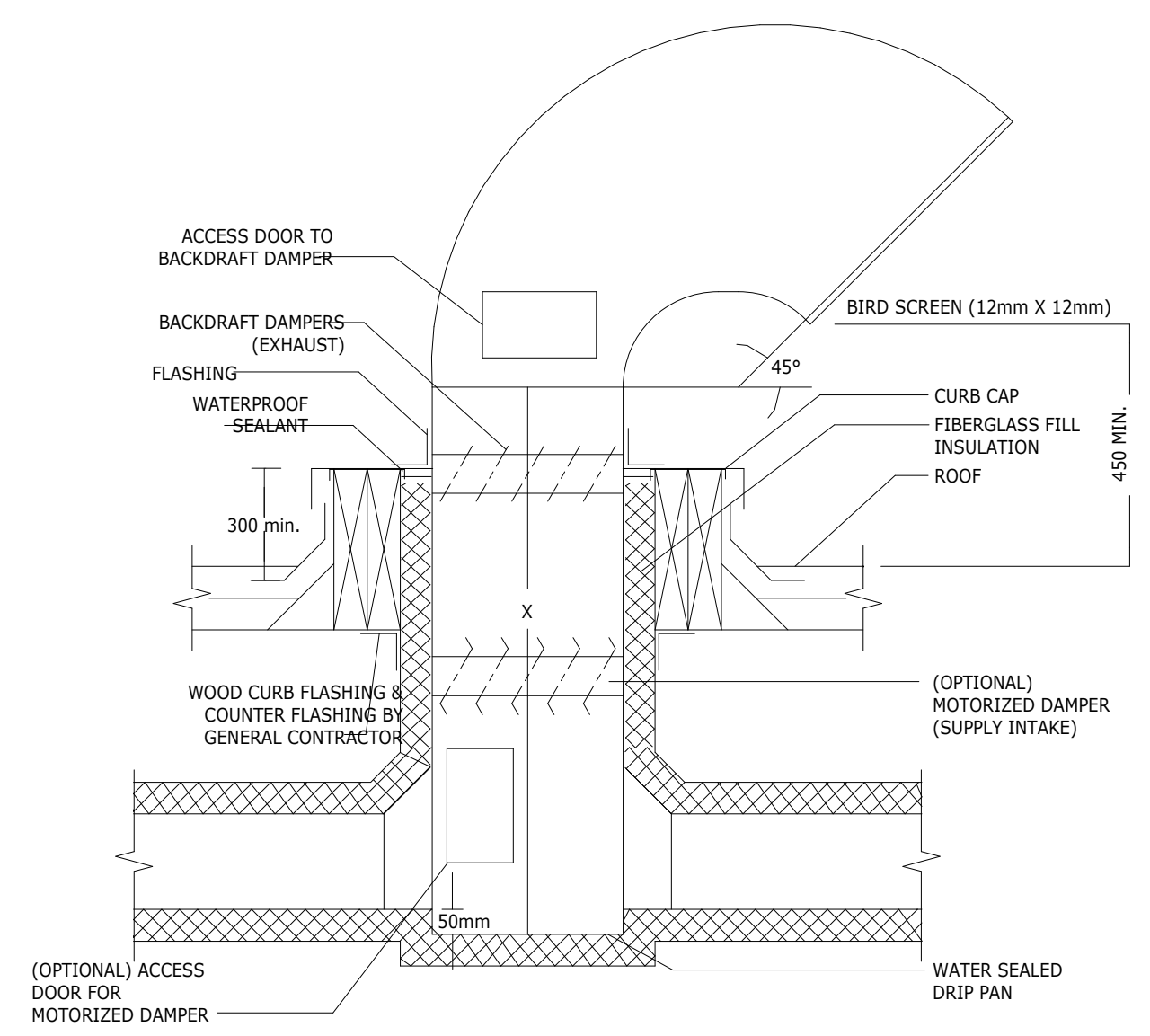


**8 SANITARY DETAIL**  
M701 NOT TO SCALE

**NOTE:**  
\*SIEMAS RESTRAINTS AS PER SPECIFICATIONS



**9 SUPPLY AIR DIFFUSER**  
M701 NOT TO SCALE



**10 DUCT PENETRATION THRU ROOF**  
M701 NOT TO SCALE



**CONSULTANTS**

Electrical:



**SEALS**



PERMIT TO PRACTICE  
#P10400

**NOTES**

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE: 3**

No.	Date	Description
3	19-07-11	BUILDING PERMIT AND TENDER
2	19-07-03	95% DRAWING REVIEW
1	19-06-01	50% DD

**SCALE:** NTS

**DRAWN BY:** BS

**CHECKED BY/QA:** DK

**PROJECT NO:** 3-19-015

**DRAWING CONTENTS**

**DRAWING LIST, LUMINAIRE SCHEDULE AND SYMBOL LEGEND**

SHEET NUMBER

**E000**

LIGHTING		POWER		SECURITY (ROUGH-IN)		COMMUNICATIONS		SINGLE LINE	
[Symbol]	EMERGENCY LUMINAIRE	[Symbol]	SINGLE RECEPTACLE	[Symbol]	DOOR ALARM	[Symbol]	TELEPHONE OUTLET	[Symbol]	FEEDER/CONDUCTOR
[Symbol]	SURFACE MOUNTED LUMINAIRE	[Symbol]	DUPLEX RECEPTACLE	[Symbol]	SPECIAL PERIMETER DOOR ALARM	[Symbol]	FLOOR MOUNTED TELEPHONE OUTLET	[Symbol]	BUSBAR/CDP
[Symbol]	CEILING RECESSED LUMINAIRE	[Symbol]	FOUR PLEX RECEPTACLE	[Symbol]	CCTV	[Symbol]	PAY TELEPHONE OUTLET	[Symbol]	POWER CIRCUIT BREAKER (VACUUM OR SF6)
[Symbol]	CEILING SUSPENDED LINEAR LUMINAIRE	[Symbol]	ABOVE COUNTER DUPLEX RECEPTACLE	[Symbol]	CCTV - ALTERNATE	[Symbol]	CATV OUTLET	[Symbol]	DRAW OUT BREAKER
[Symbol]	STRIP LIGHT	[Symbol]	ABOVE COUNTER FOUR PLEX RECEPTACLE	[Symbol]	360 DEGREE CAMERA CEILING MOUNT	[Symbol]	FLOOR MOUNTED CATV OUTLET	[Symbol]	BREAKER
[Symbol]	SURFACE MOUNTED LUMINAIRE	[Symbol]	5-20R DUPLEX RECEPTACLE (T-SLOT)	[Symbol]	MAGNETIC DOOR HOLD OPEN	[Symbol]	CEILING MOUNTED CATV OUTLET	[Symbol]	KEY INTERLOCK SWITCH
[Symbol]	RECESSED DOWN LIGHT	[Symbol]	ABOVE COUNTER 5-20R DUPLEX RECEPTACLE (T-SLOT)	[Symbol]	DOOR CONTACT	[Symbol]	COMBINATION COAXIAL/R45 OUTLET	[Symbol]	GANG OPERATED LOAD BREAK SWITCH
[Symbol]	WALL MOUNTED DOWN LIGHT	[Symbol]	1/2 SWITCHED DUPLEX RECEPTACLE	[Symbol]	CARD READER	[Symbol]	COMBINATION TELEPHONE AND DATA OUTLET WALL	[Symbol]	MOTORIZED GANG OPERATED LOAD BREAK SWITCH
[Symbol]	RECESSED STEP LIGHT	[Symbol]	SPLIT DUPLEX RECEPTACLE	[Symbol]	ELECTRIC STRIKE	[Symbol]	COMBINATION TELEPHONE AND DATA OUTLET ABOVE COUNTER	[Symbol]	GANG OPERATED DISCONNECT SWITCH
[Symbol]	PENDANT LUMINAIRE	[Symbol]	ABOVE COUNTER SPLIT DUPLEX RECEPTACLE	[Symbol]	KEY PAD	[Symbol]	COMBINATION TELEPHONE AND DATA OUTLET CEILING	[Symbol]	FUSE
[Symbol]	UNDER CUPBOARD STRIP/PUCK LIGHT	[Symbol]	DEDICATED GROUND DUPLEX RECEPTACLE	[Symbol]	REQUEST TO EXIT SENSOR	[Symbol]	COMBINATION TELEPHONE AND DATA OUTLET FLOOR	[Symbol]	RELAY
[Symbol]	TRACK	[Symbol]	DEDICATED GROUND FOUR PLEX RECEPTACLE	[Symbol]	GLASS BREAK DETECTOR	[Symbol]	WIREMOLD MOUNTED DATA/TEL	[Symbol]	NORMALLY OPEN CONTACT
[Symbol]	TRACK HEAD	[Symbol]	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	[Symbol]	PANIC ALARM	[Symbol]	WIREMOLD MOUNTED TEL OUTLET	[Symbol]	NORMALLY CLOSE CONTACT
[Symbol]	SPOT LIGHT	[Symbol]	GROUND FAULT INTERRUPTER FOUR PLEX RECEPTACLE	[Symbol]	INTRUSION MOTION DETECTOR 180°	[Symbol]	WIREMOLD MOUNTED TV OUTLET	[Symbol]	CABLE POTHEAD
[Symbol]	POLE LUMINAIRE	[Symbol]	ABOVE COUNTER GFCI DUPLEX RECEPTACLE	[Symbol]	INTRUSION MOTION DETECTOR 360°	[Symbol]	COMBINATION OUTLET	[Symbol]	LIGHTNING ARRESTER
[Symbol]	TWO HEAD POLE LUMINAIRE	[Symbol]	FLOOR MOUNTED DUPLEX RECEPTACLE	[Symbol]	INTRUSION MOTION DETECTOR WALL MOUNTED	[Symbol]	WIRELESS ACCESS POINT	[Symbol]	GROUND
[Symbol]	BOLLARD	[Symbol]	FLOOR MOUNTED FOUR PLEX RECEPTACLE	[Symbol]	INTRUSION ALARM HORN	[Symbol]	VOLUME CONTROL	[Symbol]	METERING TRANSFORMER
[Symbol]	INGROUND LIGHTING	[Symbol]	CEILING MOUNTED DUPLEX RECEPTACLE	[Symbol]	VAULT ALARM PANEL	[Symbol]	CCTV MONITOR	[Symbol]	SERVICE PROVIDER METER
[Symbol]	SINGLE POLE TOGGLE SWITCH, GANGED AS SHOWN	[Symbol]	CEILING MOUNTED FOUR PLEX RECEPTACLE	[Symbol]	INTRUSION ALARM ANNUNCIATOR	[Symbol]	INTERCOM OUTLET	[Symbol]	DIGITAL METERING UNIT
[Symbol]	LOW VOLTAGE SWITCH, GANGED AS SHOWN	[Symbol]	SYSTEMS FURNITURE POWER WHP CONNECTION	[Symbol]	INTRUSION ALARM KEY PAD	[Symbol]	FLOOR MOUNTED INTERCOM OUTLET	[Symbol]	OVERCURRENT GROUND RELAY
[Symbol]	THREE WAY TOGGLE SWITCH	[Symbol]	SERVICE PAC POLE	[Symbol]	INTRUSION ALARM CONTROL PANEL	[Symbol]	CEILING MOUNTED SPEAKER	[Symbol]	OVERCURRENT PHASE RELAY
[Symbol]	OCCUPANCY SENSOR, WALL MOUNTED	[Symbol]	JUNCTION BOX	[Symbol]	SONALERT	[Symbol]	WALL MOUNTED SPEAKER	[Symbol]	TRANSFORMER (DRY TYPE)
[Symbol]	OCCUPANCY SENSOR, CEILING MOUNTED	[Symbol]	MECHANICAL EQUIPMENT DIRECT CONNECTION	[Symbol]		[Symbol]	WALL MOUNTED SPEAKER	[Symbol]	DELTA-WYE TRANSFORMER
[Symbol]	DIMMER SWITCH	[Symbol]	KITCHEN EQUIPMENT CONNECTION	[Symbol]		[Symbol]	PUBLIC ADDRESS HORN	[Symbol]	GENERATOR
[Symbol]	PHOTOCELL	[Symbol]	VARIABLE SPEED SWITCH	[Symbol]		[Symbol]	PROJECTOR	[Symbol]	TRANSFER SWITCH
[Symbol]	TIME CLOCK	[Symbol]	THERMOSTAT	[Symbol]		[Symbol]	SYSTEM FURNITURE COMM TRANSITION WALL BOX	[Symbol]	LONG, SHORT, INSTANTANEOUS, & GROUND TRIP UNIT
[Symbol]	EXIT SIGN - ARROWS AS INDICATED	[Symbol]	BASEBOARD HEATER, WATTAGE AS NOTED ON PLANS	[Symbol]		[Symbol]	SYSTEM FURNITURE COMM TRANSITION WALL BOX	[Symbol]	FEED THROUGH
[Symbol]	EXIT SIGN - SINGLE SIDED	[Symbol]	FORCE FLOW HEATER	[Symbol]		[Symbol]	BELL	[Symbol]	TIME DELAY
[Symbol]	EXIT SIGN - DUAL SIDED	[Symbol]	MECHANICAL MOTOR CONNECTION	[Symbol]		[Symbol]	BUZZER	[Symbol]	LV LOW VOLTAGE LIGHTING RELAY CABINET
[Symbol]	EMERGENCY BATTERY PACK	[Symbol]	DISCONNECT SWITCH	[Symbol]		[Symbol]	HORN	[Symbol]	DOUBLE NEUTRAL
[Symbol]	DUAL REMOTE EMERGENCY HEADS, CEILING MOUNTED	[Symbol]	MAGNETIC STARTER	[Symbol]		[Symbol]	CLOCK OUTLET	[Symbol]	PS PHASE SHIFT
[Symbol]	DUAL REMOTE EMERGENCY HEADS, WALL MOUNTED	[Symbol]	CONTACTOR	[Symbol]		[Symbol]	SYSTEM POWER TRANSITION WALL BOX	[Symbol]	
[Symbol]	DUAL EMERGENCY HEADS COMPLETE WITH SELF CONTAINED BATTERY PACK, CEILING MOUNTED	[Symbol]	MANUAL STARTER	[Symbol]		[Symbol]		[Symbol]	
[Symbol]	DUAL EMERGENCY HEADS COMPLETE WITH SELF CONTAINED BATTERY PACK, WALL MOUNTED	[Symbol]	GROUND BUS	[Symbol]		[Symbol]		[Symbol]	
[Symbol]	MASTER SWITCH	[Symbol]	PANEL BOARD	[Symbol]		[Symbol]		[Symbol]	
[Symbol]	LOCAL MASTER SWITCH	[Symbol]	CONDUIT RUN UP	[Symbol]		[Symbol]		[Symbol]	
		[Symbol]	CONDUIT RUN DOWN	[Symbol]		[Symbol]		[Symbol]	
		[Symbol]	PUSH BUTTON	[Symbol]		[Symbol]		[Symbol]	
		[Symbol]	EMERGENCY PUSH BUTTON	[Symbol]		[Symbol]		[Symbol]	
		[Symbol]	DUPLEX RECEPTACLE CW DUAL USB PORT	[Symbol]		[Symbol]		[Symbol]	
		[Symbol]	5-20R FOUR PLEX RECEPTACLE	[Symbol]		[Symbol]		[Symbol]	
		[Symbol]	SURFACE MOUNT PANEL	[Symbol]		[Symbol]		[Symbol]	

\*NOT ALL SYMBOLS ARE USED

LUMINAIRE SCHEDULE												
TYPE	LOCATIONS	DESCRIPTION	PRE-APPROVED PRODUCT	MOUNTING	WATTS (W)	LED LUMENS	COLOUR	MIN CRI	QTY	BALLAST/DRIVER	VOLTAGE	REMARKS
A	VARIOUS	4" CIRCULAR DOWNLIGHT	GOTHAM LIGHTING EVO-3D-15-4WR-MWD-LSS-VOLT-GZ10	RECESSED	17.3	1500	3000	80		0-10V	120	
B	WASHROOM	RECTANGULAR VANITY LIGHT	LITHONIA LIGHTING FMV/SL-24-MVOLT-30K-90-8N	WALL	18	1300	3000	90		-	120	
C	BACK OF HOUSE	33 DEGREE TRACK LIGHT-RECESSED	STUDIO PROJECTOR 1780-80-830-40-1200-0101-010 CW 3502-1C-120 TRACK	SURFACE	26.5	2545	3000	80		0-10V	120	
D	FRONT OF HOUSE	33 DEGREE TRACK LIGHT-SUSPENDED	STUDIO PROJECTOR 1780-80-830-40-1200-0101-010	SUSPENDED	26.5	2545	3000	80		0-10V	120	TRACK TO BE SUSPENDED. HEIGHT TO BE CONFIRMED WITH ARCHITECT PRIOR TO INSTALLATION.
F	ATM	ARCHITECTURAL WALL LIGHT	AXO LIGHT U-LIGHT AP-UJ090LED-AN-XX-LED	WALL	23	1470	3000	80		1-10V	120	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING
G	KITCHEN	ARCHITECTURAL WALL LAMP	NEMO LIGHTING APPLIQUE A VOILET PIVOTANT PLIE	SURFACE	20	828	3000	83		0-10V	120	
H	BOARDROOM	ARCHITECTURAL PENDANT	LINDSEY ADELMAN STUDIO 9 BRANCHING DISC 8D 09.01	SUSPENDED	18	2300	2700	80		0-10V	120	FINISH TO BE 'OIL RUBBED BRONZE'
J	OFFICES	ARCHITECTURAL SUSPENDED LIGHT	LAMBERT & PILS WALDORF SUSPENDED TRIPLE	SUSPENDED	19	1300	2700	80		0-10V	120	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING
K	ELECTRICAL CLOSET	UTILITY STRIP	LITHONIA LIGHTING ZILN-24-2603LM-120-30K-80	SURFACE	25	2500	3000	80		0-10V	120	
L	SAFE ROOM	RECESSED 2X4 TROFFER	LITHONIA LIGHTING ZALLA-30L-EZ1-LP830	RECESSED	25	3000	3000	80		0-10V	120	
M	FEATURE WALL	CURVED RECESSED PERIMETER	PMC LIGHTING ARCX-D-TRM-30K-655-FWQ-WHT-UNV	RECESSED	47	8000	3000	80		0-10V	120	CONTINUOUS RUN, COORDINATE EXACT LENGTH ON SITE PRIOR TO ORDERING
BATT	VARIOUS	24V COMBINATION BATTERY PACK	BEGHELLI NOVA NV-24-XX-2SR-LED-MR16	SURFACE	7	-	-	-		N/A	120	SIZE BATTERY PACK SUCH THAT IT CAN MAINTAIN A MINIMUM OF 30 MIN RUN TIME
RH	VARIOUS	24V REMOTE HEAD	BEGHELLI SR-2-24-7	SURFACE	7	-	-	-		N/A	24	ENSURE REMOTE HEAD MATCHES BATTERY PACK
EX	VARIOUS	SELF POWERED GREEN RUNNING MAN EXIT SIGN	BEGHELLI QUADRA QR-RM-SP-L-U-QLR-X	WALL/SURFACE	-	-	-	-		N/A	120	CONFIRM NECESSARY DIRECTIONAL ARROWS AND MOUNTING METHOD PRIOR TO ORDERING. DEVICE TO BE TIED INTO LOCAL LIGHTING CIRCUIT AND PROVIDE MINIMUM 30 MINUTES OF EMERGENCY BACK UP BATTERY.

**GENERAL LUMINAIRE NOTES:**

- DUE TO CONSTANT CHANGES IN CATALOGUE NUMBERS, ALL NUMBERS INDICATED MUST BE VERIFIED WITH THE MANUFACTURER PRIOR TO ORDERING.
- ALL LUMINAIRE FINISHES TO BE APPROVED BY ARCHITECT PRIOR TO ORDERING.
- TYPE OF CONSTRUCTION FOR ALL CEILINGS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING MOUNTING KITS. CONTRACTOR TO OBTAIN A SET OF IFC ARCHITECTURAL DRAWINGS AND COORDINATE MOUNTING WITH CEILING TYPES SHOWN. NO EXTRAS WILL BE ALLOWED FOR RE-ORDERING OF LUMINAIRES OR MOUNTING KITS TO MATCH CEILING TYPES SHOWN ON ARCHITECTURAL PLANS. MOUNTING HEIGHT OF ALL SUSPENDED LUMINAIRES TO BE ADJUSTABLE ON SITE, AND CONTRACTOR TO COORDINATE ON SITE UNDER DIRECTION OF CONSULTANT.
- CONTRACTOR TO ALLOW A MINIMUM 2 WEEKS FOR INITIAL REVIEW OF ENTIRE LIGHTING SHOP DRAWING PACKAGE. NO DELAY CLAIMS WILL BE ALLOWED FOR ANY SUBSEQUENT REVIEW TIME REQUIRED DUE TO INCORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LUMINAIRES ARE DELIVERED IN A TIMELY MANNER TO THE SITE. NO EXTRAS WILL BE ALLOWED FOR SUBSTITUTIONS OR RUSH CHARGES REQUIRED TO MEET PROJECT SCHEDULE AND MUST BE ALLOWED FOR IN TENDER PRICE.
- ALL CONTROLS INTEGRATED WITH LUMINAIRES TO BE COMMISSIONED ON SITE AFTER INSTALL. CONTRACTOR TO ENSURE THAT ALLOWANCE IS MADE FOR ADJUSTING, COMMISSIONING AND OWNER TRAINING OF ALL CONTROLS AS REQUIRED.
- COORDINATE MOUNTING HEIGHT OF ALL WALL MOUNTED LUMINAIRES WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE SUSPENSION HEIGHT OF ALL SUSPENDED LUMINAIRES WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL JUNCTION BOXES FOR SURFACE MOUNT LUMINAIRES SHALL NOT BE WIDER THAN THE LUMINAIRE MOUNTING PLATE.
- ALL LED LUMINAIRES ARE BE INCLUDED WITH CONSTANT CURRENT DRIVERS UNLESS SPECIFIED.
- ALL LUMINAIRES SHALL BE APPROVED AS DEFINED IN CURRENT CANADIAN ELECTRICAL CODE (CEC)

ELECTRICAL SHEET LIST	
Sheet Number	Sheet Name
E000	DRAWING LIST, LUMINAIRE SCHEDULE AND SYMBOL LEGEND
E101	LEVEL 1 - LIGHTING PLAN
E102	LEVEL 1 - POWER PLAN
E103	ELECTRICAL DETAILS
E104	ELECTRICAL SPECIFICATIONS
E105	COMMUNICATION SPECIFICATIONS

**CONSULTANTS**

Electrical:



**SEALS**



PERMIT TO PRACTICE  
#P10400

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**PROJECT TITLE**

**CONNECT FIRST - RED DEER**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE: 3**

No.	Date	Description
3	19-07-11	BUILDING PERMIT AND TENDER
2	19-07-03	95% DRAWING REVIEW
1	19-06-01	50% DD

**SCALE:** As indicated

**DRAWN BY:** BS

**CHECKED BY/QA:** DK

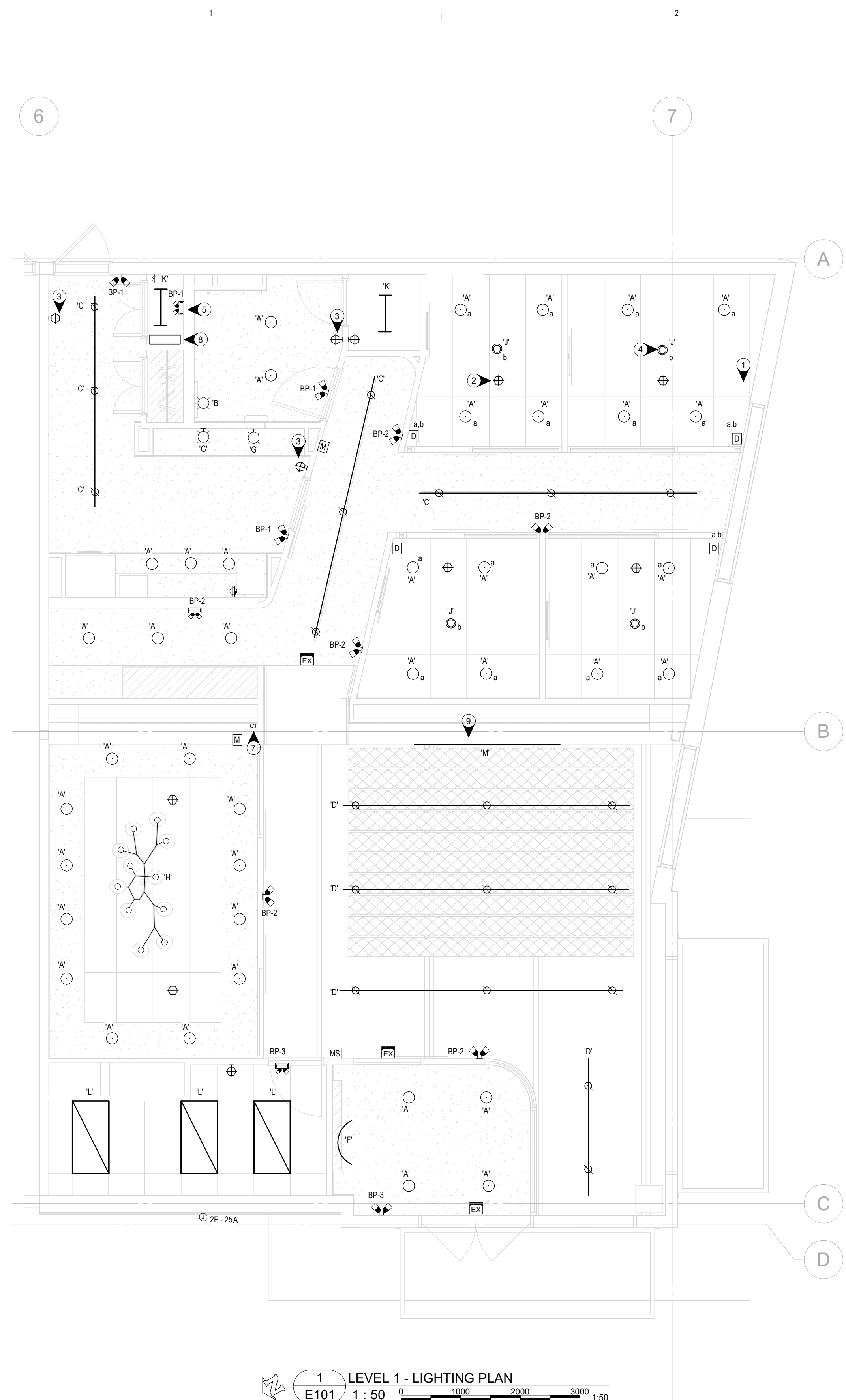
**PROJECT NO:** 3-19-015

**DRAWING CONTENTS**

**LEVEL 1 - LIGHTING PLAN**

**SHEET NUMBER**

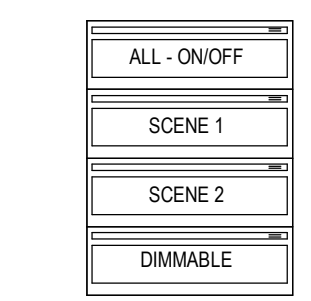
**E101**



**1 LEVEL 1 - LIGHTING PLAN**  
E101 1:50

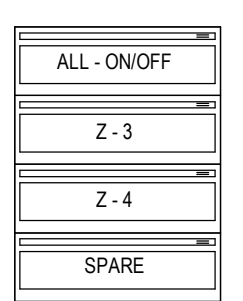


**2 LEVEL 1 - LIGHTING ZONES**  
E101 1:50



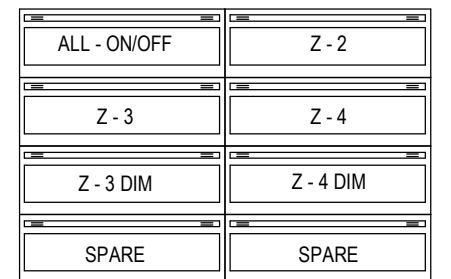
**DETAIL #1 NOTES:**  
A. ALL - ON/OFF TO TURN ON OR OFF ALL FIXTURES WITHIN BOARDROOM. PROVIDE NECESSARY PROGRAMMING AND COMPONENTS AS REQUIRED FOR MINIMUM 2 PRE-SET SCENE SELECTIONS. ENSURE CONTINUOUS DIMMING TO <1%.  
B. LOCAL SWITCH BANK TO BE TOUCH PANEL STYLE.  
C. LOCAL SWITCH BANK LOCATION TO BE COORDINATED ON SITE.  
D. LOCAL SWITCH BANK IS TO BE INSTALLED WITH GREEN LED INDICATOR LAMP WHEN LIGHTING ZONE IS ON.  
E. FINISH TO BE WHITE.

**3 LOCAL CONTROL STATION (BOARDROOM)**  
E101 NTS



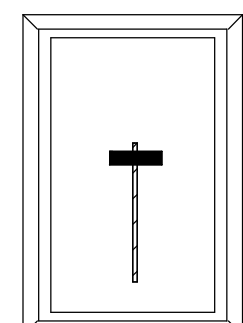
**DETAIL #2 NOTES:**  
A. ALL - ON/OFF TO TURN ON OR OFF ALL FIXTURES WITHIN ZONE 3 AND 4. LIGHTS TO STAY ON DURING OPERATIONAL HOURS AND PROVIDE FLICKER WARNING 30 MINUTES PRIOR TO TURNING OFF. ALLOW FOR MANUAL 1H OVERRIDE.  
B. LOCAL SWITCH BANK LOCATION TO BE COORDINATED ON SITE.  
C. LOCAL SWITCH BANK IS TO BE INSTALLED WITH GREEN LED INDICATOR LAMP WHEN LIGHTING ZONE IS ON.  
D. FINISH TO BE WHITE.

**4 LOCAL CONTROL STATION (BACK CORRIDOR)**  
E101 NTS



**DETAIL #3 NOTES:**  
A. ALL - ON/OFF TO TURN ON OR OFF ALL FIXTURES CONTROLLED BY MASTER SWITCH BANK. LIGHTS TO STAY ON DURING OPERATIONAL HOURS AND PROVIDE FLICKER WARNING 30 MINUTES PRIOR TO TURNING OFF. ALLOW FOR MANUAL 1H OVERRIDE FOR EACH ZONE AT MASTER SWITCH BANK LOCATION. COORDINATE PROGRAMMING WITH OWNER ON SITE.  
B. MASTER SWITCH BANK LOCATION TO BE COORDINATED ON SITE.  
C. MASTER SWITCH BANK TO PROVIDE DIMMING CONTROL OF RESPECTIVE ZONES.  
D. MASTER SWITCH BANK IS TO BE INSTALLED WITH GREEN LED INDICATOR LAMP WHEN LIGHTING ZONE IS ON.  
E. FINISH TO BE WHITE.

**5 MASTER CONTROL STATION (FRONT DOOR)**  
E101 NTS



**6 SLIDE DIMMER**  
E101 NTS

**CIRCUIT SCHEDULE FOR ZONES**

ZONE	PANELBOARD	CIRCUITS
LCZ-5	2F	#01
LVZ-2	2F	#03
LVZ-3	2F	#03
LVZ-4	2F	#05
LCZ-1	2F	#07
LCZ-2	2F	#09
LCZ-3	2F	#09
LCZ-4	2F	#07

**LIGHTING CONTROL NOTES:**  
1. PROVIDE BREAKOUT PRICING FOR LIGHTING CONTROL TYPE WATTSTOPPER WIRELESS 5 ZONE COMPLETE WITH ALL CONTROL INTERFACES AND ASSOCIATED COMPONENTS.  
2. CIRCUIT SCHEDULES SHOWN HERE IS FOR GROUPING PURPOSES ONLY. REFER TO PANEL SCHEDULE AND FLOOR PLANS FOR DETAILS. PROVIDE AND INSTALL NEW BREAKERS AS REQUIRED. LIGHTING CIRCUITS TO BE LOADED NO MORE THAN 80% AND ENSURE 20% SPARE CAPACITY IS PROVIDED FOR FUTURE.  
3. PROGRAM FOR SCENE SELECTING TO BE COORDINATED ON SITE WITH OWNER.

**7 CIRCUIT SCHEDULE FOR ZONES (FRONT DOOR)**  
E101 NTS

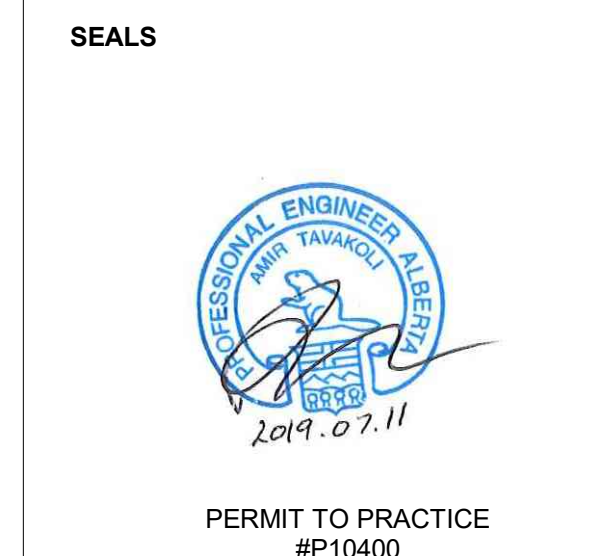
**GENERAL LIGHTING NOTES:**

- MOUNTING HEIGHTS OF ALL SUSPENDED LUMINAIRES TO BE COORDINATED WITH THE LIGHTING DESIGNER. ALLOW FOR TRAPEZE MOUNTING LUMINAIRES WHERE OBSTRUCTIONS IN THE CEILING SPACE OCCUR TO PERMIT INSTALLATION AT INTENDED LOCATIONS. OBSTRUCTING LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING INSTALLATION.
- ANY ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE TO TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATION OF RECEPTACLES AND SWITCHES SHOWN.
- PRIOR TO ANY CORING OR CUTTING OF SLAB, CONTRACTOR SHALL X-RAY/SCAN SLAB AND COORDINATE WITH STRUCTURAL. COORDINATE ANY RESULTING RESTRICTIONS/RELOCATIONS OF EQUIPMENT WITH OTHER TRADES AND BRING TO THE ATTENTION OF ELECTRICAL ENGINEER IF NO SUITABLE SOLUTION CAN BE FOUND.
- ALL PATHWAYS THROUGH FIRE RATED WALLS OR FLOORS MUST BE FIRE STOPPED.
- STACK MOUNT AND ALIGN LIGHT SWITCHES, WALL OUTLETS AND FIRE ALARM DEVICES THAT ARE AT THE SAME LOCATION. COORDINATE INSTALLATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND ON-SITE.
- ALL NEW LUMINAIRES ARE TO BE 120V. REFER TO LIGHTING CONTROL ZONING DRAWINGS FOR CIRCUITING AND SWITCHING REQUIREMENTS. CIRCUITS SHOWN IS FOR GROUPING PURPOSES ONLY.
- OCCUPANCY SENSORS AND VACANCY SENSOR SWITCHES TO BE DUAL-TECHNOLOGY AND SHALL CONTROL ALL RESPECTIVE LUMINAIRES WITHIN THE AREA. ALLOW FOR PENDANT MOUNTING SENSORS WHERE REQUIRED. INTENT IS TO AVOID OBSTRUCTIONS WITHIN THE CEILING SPACE TO GRANT FULL FIELD OF VIEW.
- INSTALLATION, PLACEMENT AND PROGRAMMING OF ALL LIGHTING CONTROL DEVICES AND COMPONENTS TO BE COORDINATED WITH SUPPLIER.

**KEYNOTES**

NUMBER	DESCRIPTION
1	PROVIDE SLIDE DIMMER FOR EACH SWITCH LEG C/W POWER PACK AND ALL ASSOCIATED COMPONENTS DEVICE SHALL BE WATTSTOPPER TYPE RADIANT 0-10V DIMMER OR APPROVED EQUAL.
2	PROVIDE CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER TYPE DT-300 OR APPROVED EQUAL TIED TO LOCAL DIMMING SWITCH TO PROVIDE MANUAL ON AND AUTOMATIC OFF UPON THIRTY(30) MINUTES OF VACANCY (TYPICAL).
3	PROVIDE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER TYPE DW-100 OR APPROVED EQUAL, PROGRAMMED FOR MANUAL ON/AUTOMATIC OFF UPON THIRTY(30) MINUTES OF VACANCY (TYPICAL).
4	LIGHT FIXTURE TO SIT CENTER ABOVE OFFICE TABLE. COORDINATE EXACT LOCATION ON SITE.
5	BATTERY PACK TO BE POWERED FROM LOCAL LIGHTING CIRCUIT AND PROVIDE THIRTY(30) MINUTES OF EMERGENCY LIGHTING IN THE EVENT OF POWER FAILURE (TYPICAL). PROVIDE ALL REQUIRED RELAYS SUCH THAT IN THE EVENT OF LIGHTING CIRCUIT POWER LOSS, ALL REMOTE HEAD TO TURN ON TO FULL BRIGHTNESS.
6	FIXTURES WITHIN ENTRANCE VESTIBULE SHALL BE ON LOW VOLTAGE ZONE PROGRAMMED FOR 24/7 OPERATION COORDINATE EXACT REQUIREMENTS ON SITE.
7	BOARD ROOM MASTER SWITCH SHALL BE LEGRAND DIGITAL PANEL TYPE EQUINOX OR APPROVED EQUAL.
8	PROVIDE LOW VOLTAGE LIGHTING PANEL LEGRAND TYPE PENULT LPS OR APPROVED EQUAL. COORDINATE EXACT LOCATION ON SITE.
9	CONTINUOUS RECESSED PERIMETER COVE FIXTURE TO FOLLOW THE CURVE OF THE FEATURE WALL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.





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**PROJECT TITLE**  
**CONNECT FIRST - RED DEER**

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z9

**ISSUE:** 3

No.	Date	Description
3	19-07-11	BUILDING PERMIT AND TENDER
2	19-07-03	95% DRAWING REVIEW
1	19-06-01	50% DD

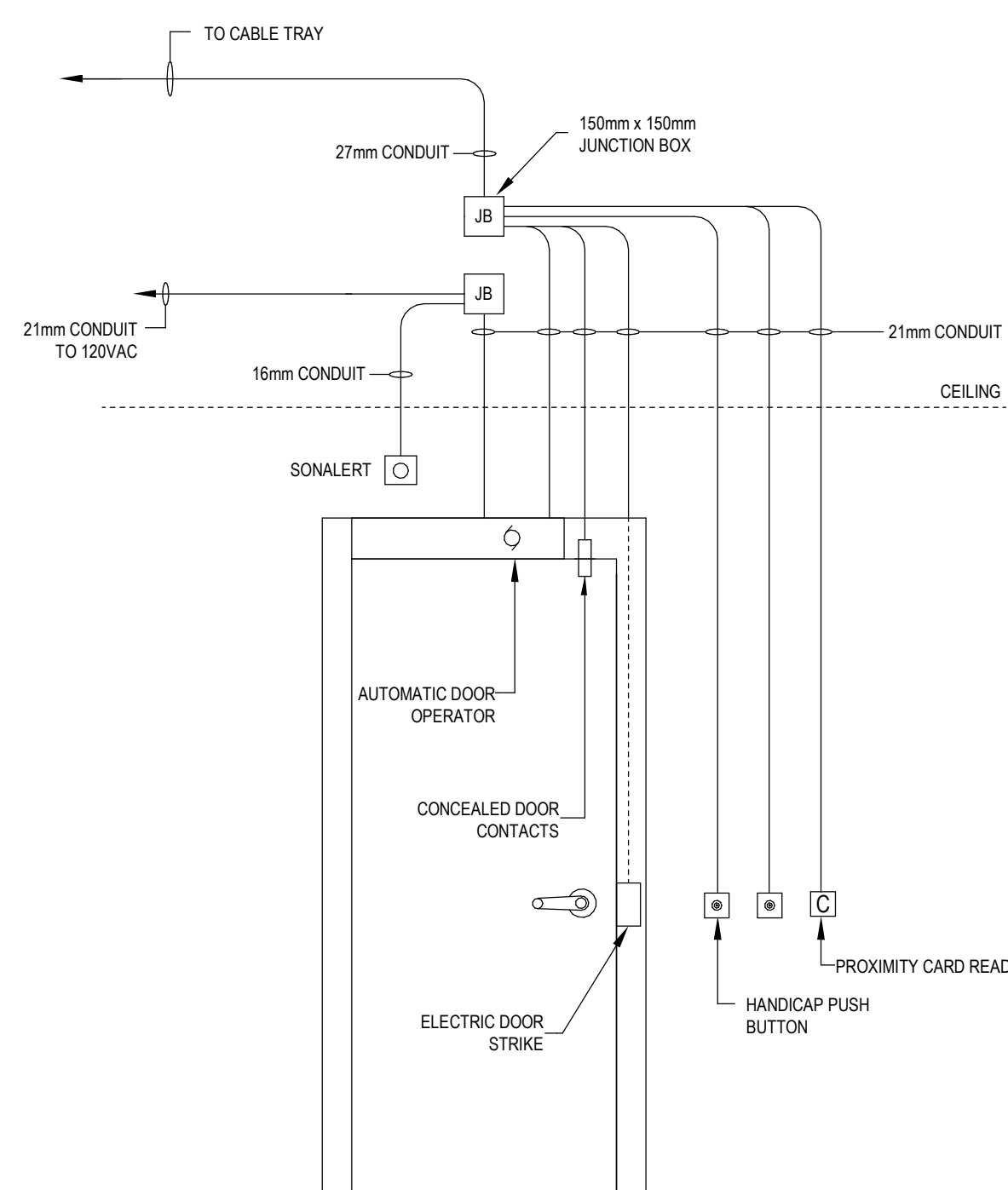
**SCALE:** As indicated

**DRAWN BY:** BS

**CHECKED BY/QA:** DK

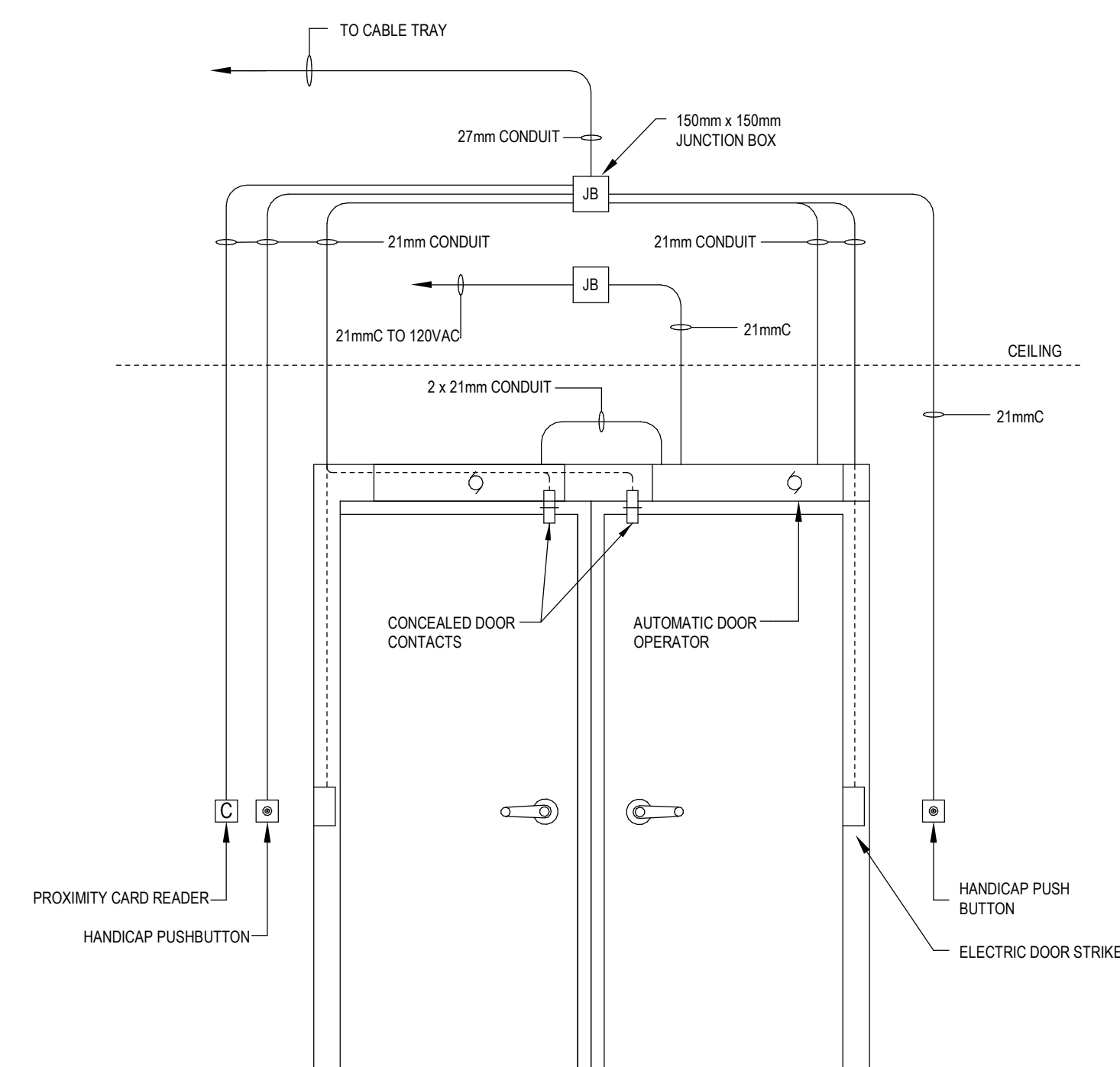
**PROJECT NO:** 3-19-015

**DRAWING CONTENTS**  
**ELECTRICAL DETAILS**



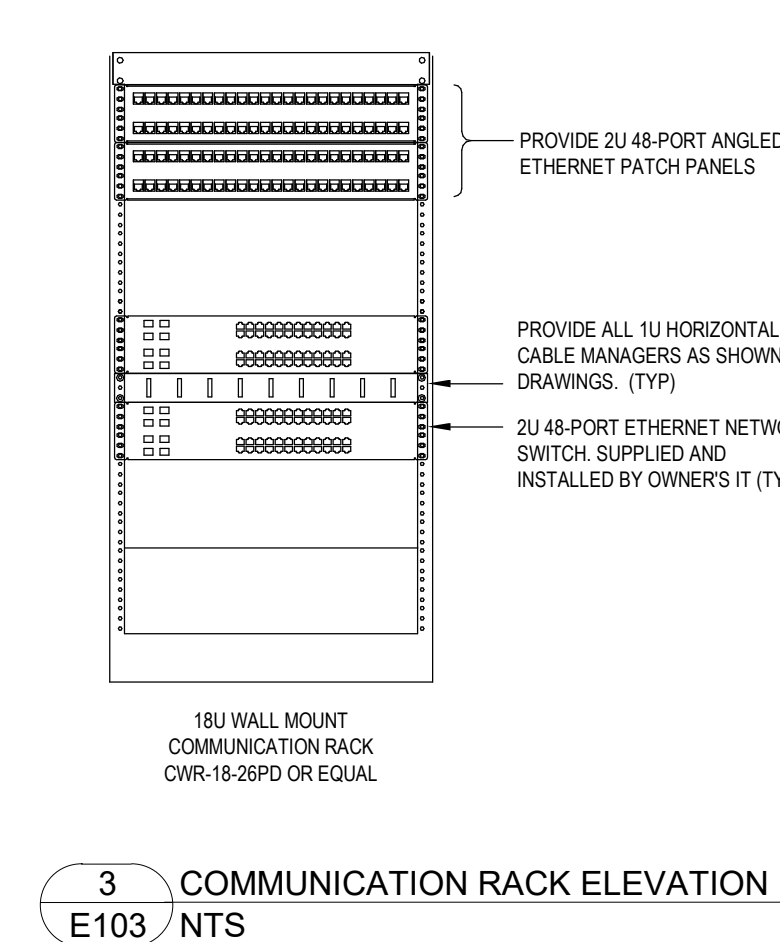
**1 SINGLE DOOR DETAIL**  
**E103 NTS**

**NOTE:**  
CONTRACTOR TO VERIFY WITH DOOR HARDWARE EXACT REQUIREMENTS FOR EACH DOOR. DEVICES BY OTHERS

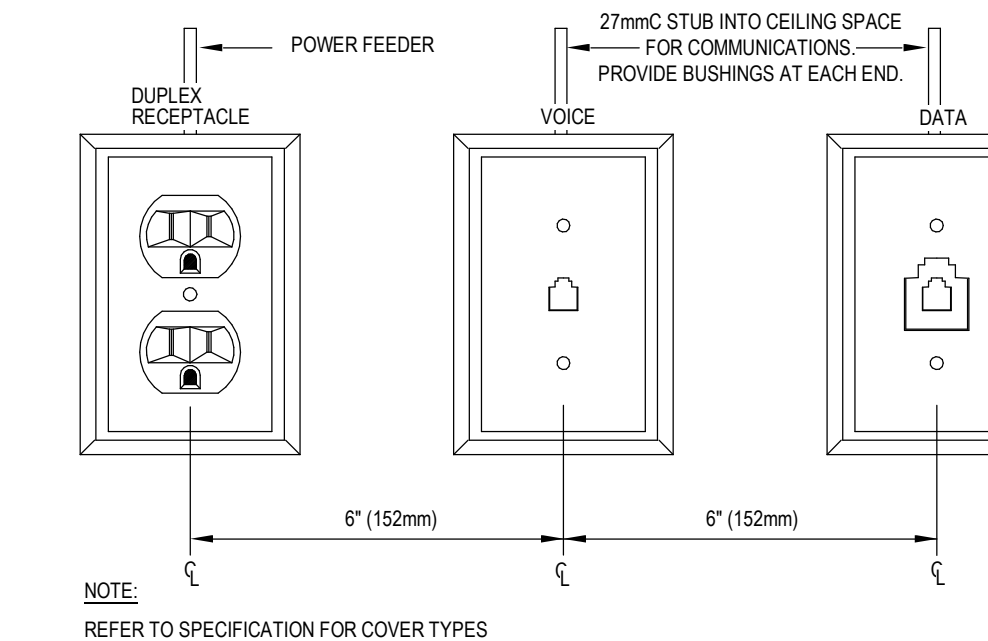


**2 DOUBLE DOOR DETAIL**  
**E103 NTS**

**NOTE:**  
CONTRACTOR TO VERIFY WITH DOOR HARDWARE EXACT REQUIREMENTS FOR EACH DOOR. DEVICES BY OTHERS

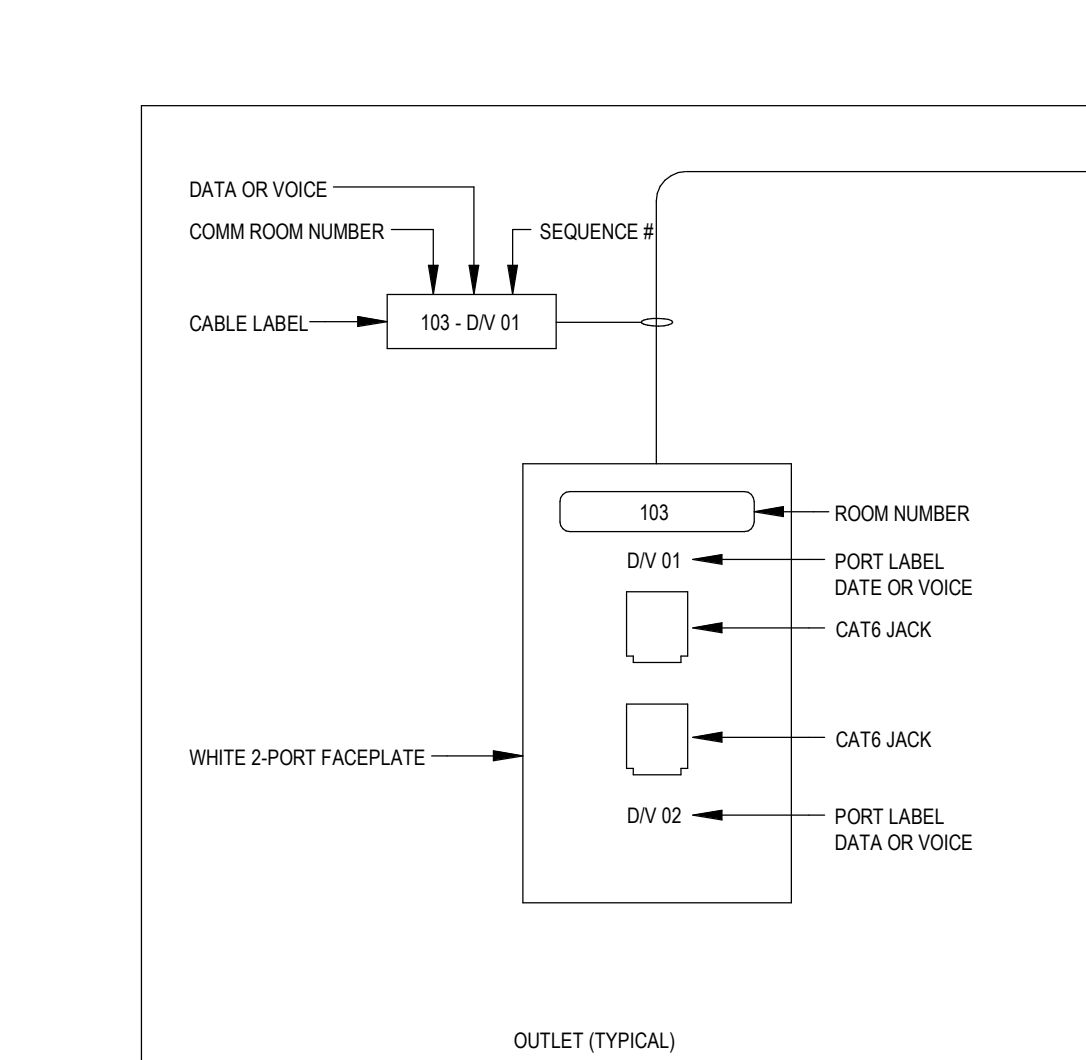


**3 COMMUNICATION RACK ELEVATION**  
**E103 NTS**

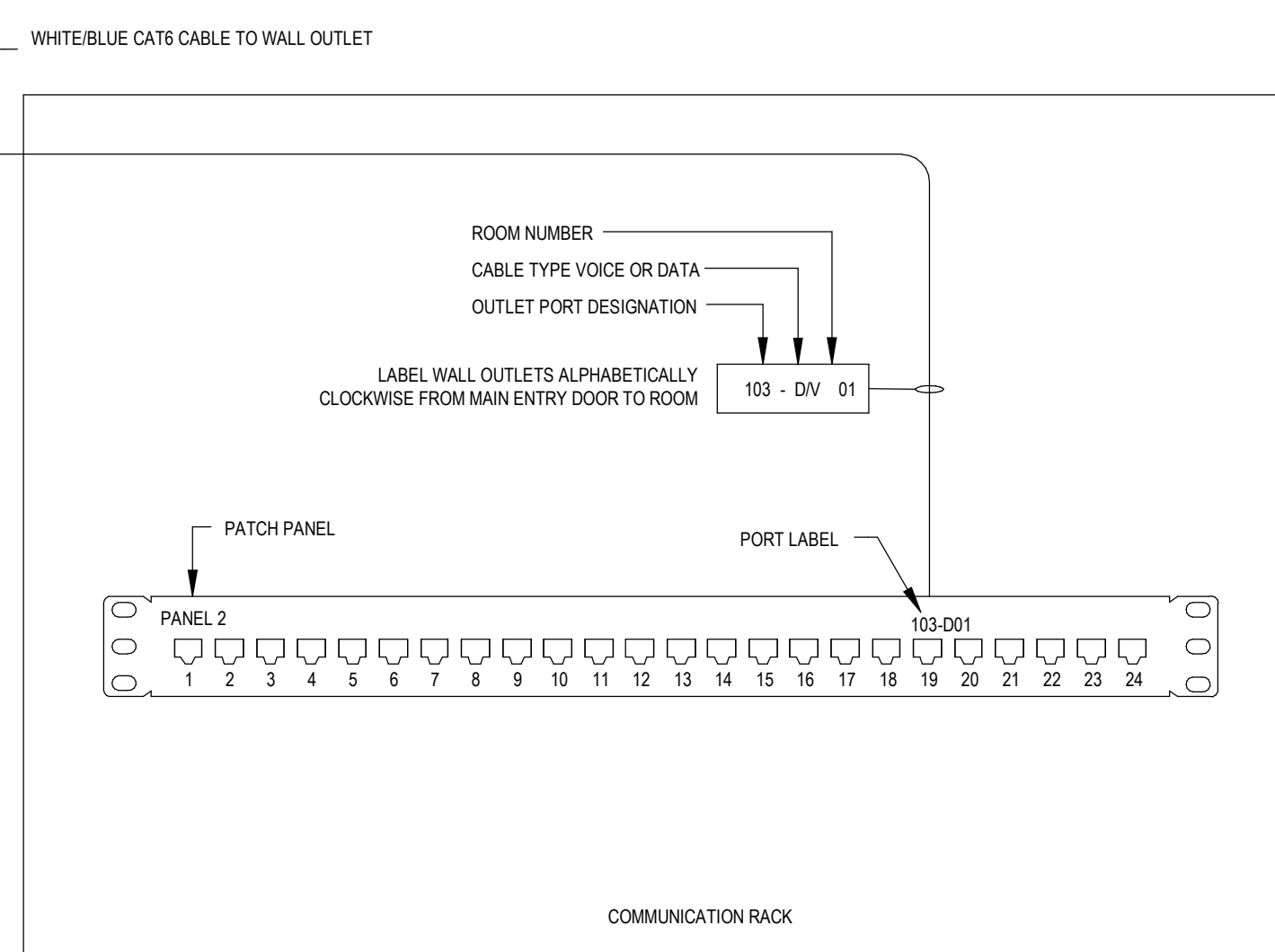


**4 TYPICAL OUTLET DETAIL**  
**E103 NTS**

**NOTE:**  
REFER TO SPECIFICATION FOR COVER TYPES



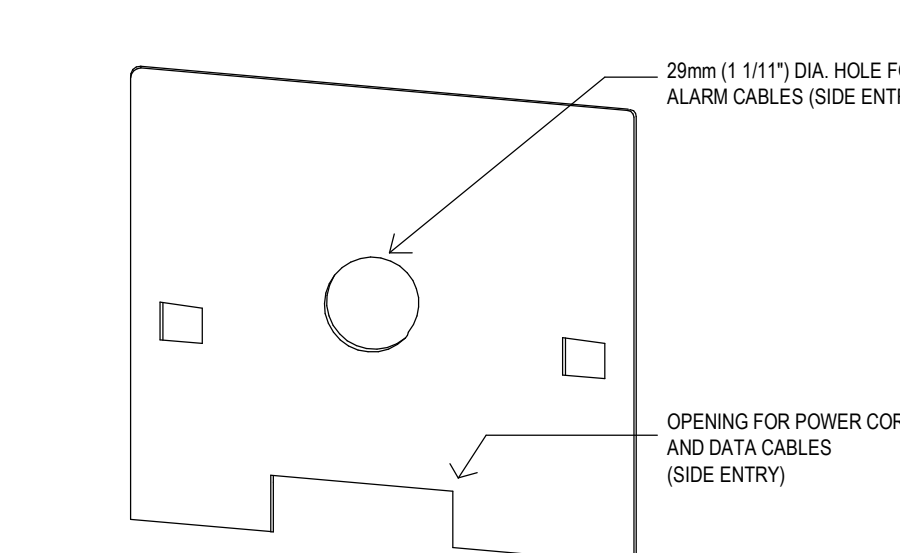
**5 DATA CONNECTIVITY**  
**E103 NTS**



**6 BACK ELEVATION - ATM**  
**E103 NTS**

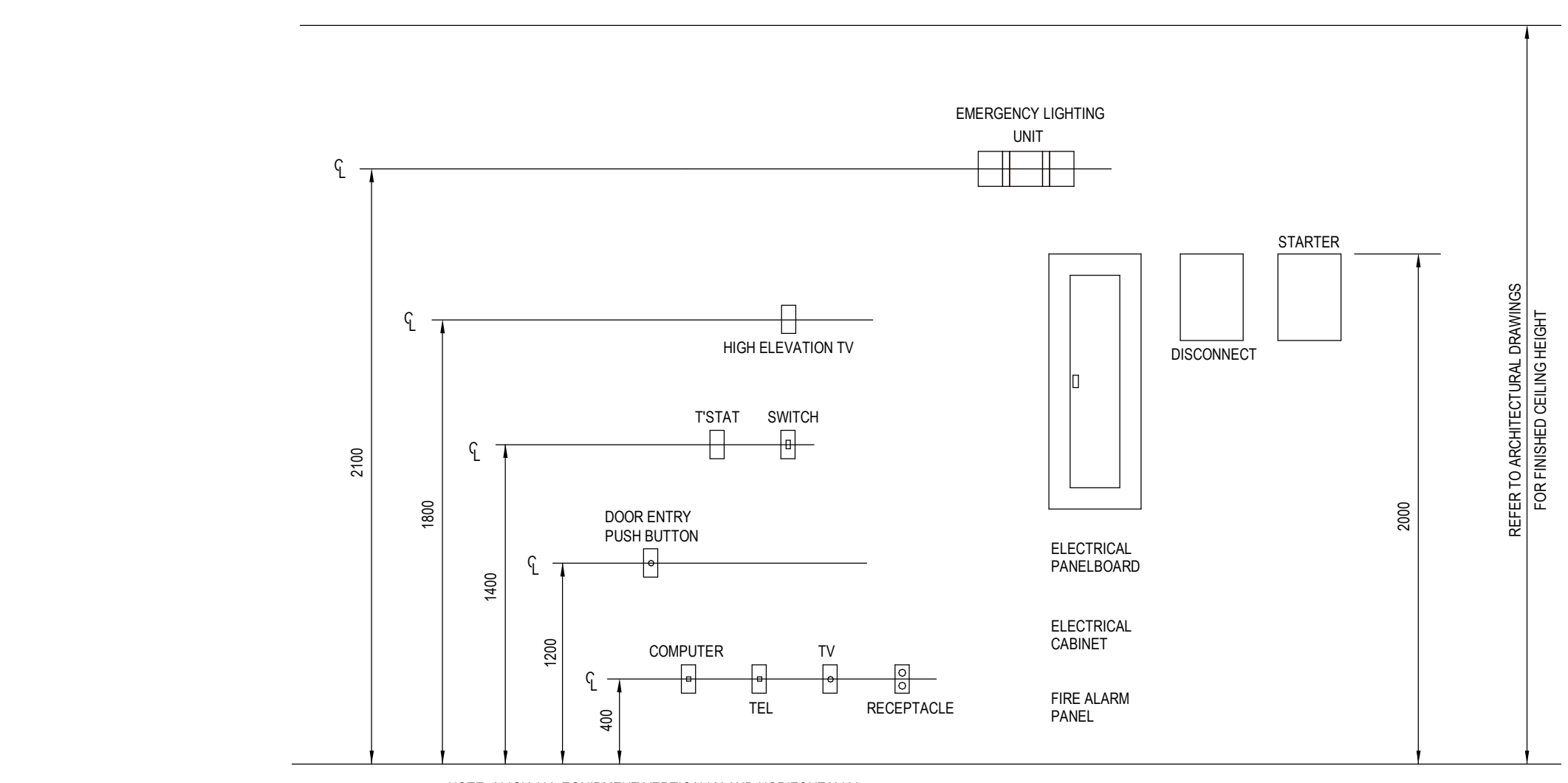
- CONDUIT AND JUNCTION BOX REQUIREMENTS**
- 25mm (1") METAL CONDUIT FROM ALARM CONTROL CABINET JUNCTION BOX TO 102mm (4") SQ X 54mm (2 1/2") DEEP JUNCTION BOX (ALL BY OWNERS E.C. (ELECTRICAL CONTRACTOR)).
  - OWNERS E.C. TO RUN 19mm (3/4") LIQUID TIGHT FLEX METAL CONDUIT OR 19mm (3/4") RIGID CONDUIT FROM JUNCTION BOX TO CABLE CONNECTION PLATE.
  - 19mm (3/4") METAL CONDUIT AND UNSWITCHED ELECTRICAL SUPPLY TO 102mm (4") SQ X 54mm (2 1/2") DEEP JUNCTION BOX WITH RECEPTACLE WITHIN 220mm (8 7/8") OF SIDE CONNECTING PLATE. (ALL BY OWNERS E.C.) (SEE POWER REQUIREMENTS).
  - OWNERS E.C. TO SUPPLY COMPATIBLE RECEPTACLE FOR COUNTRY SPECIFIC PLUG-IN CONNECTOR SUPPLIED WITH UNIT. POWER CORD LENGTH 2210mm (87") FROM SIDE OF UNIT.
- POWER REQUIREMENTS:**  
THE TERMINAL REQUIRES A SINGLE-PHASE, THREE-WIRE UNSWITCHED POWER RECEPTACLE. WIRING TO RECEPTACLE MUST INCLUDE A THIRD-WIRE EARTH GROUND (CONDUIT GROUND IS NOT ACCEPTABLE). THE TERMINAL WILL PROVIDE A POWER CORD WITH A COUNTRY SPECIFIC POWER PLUG. THE POWER SUPPLIED MUST BE AS SPECIFIED BELOW.
- 100-127 VAC (+6% -10%) AT 60 (+/-1%) Hz, SINGLE-PHASE
- POWER TO THE TERMINAL IS TO BE A DEDICATED SERVICE AND MUST BE PROTECTED BY A SAFETY QUICK-DISCONNECT DEVICE TO BREAK LINE VOLTAGE (SUCH AS A CIRCUIT BREAKER AT THE ELECTRICAL SERVICE PANEL. THE QUICK-DISCONNECT DEVICE (OR CIRCUIT BREAKER) MUST TURN OFF THE LINE VOLTAGE AT THE FOLLOWING AMPERAGE:
- 100-127 VAC (+6% -10%) SERVICE, DISCONNECT AT 20 AMPERES
- 200-240 VAC (+/-10%) SERVICE, DISCONNECT AT 10 AMPERES
- THE MODULE BULK POWER SUPPLY AND PROCESSOR POWER SUPPLY WILL PROVIDE POWER CONDITIONING TO PREVENT THE TERMINAL FROM MALFUNCTIONING DUE TO SHORT-TERM AC POWER FLUCTUATIONS AS OUTLINED IN EN1000-4-11.
- POWER USAGE:**

MACHINE STATUS	(A)
IDLE (NO TRANSACTION) (NO HEATER)	225 WATTS
IDLE (NO TRANSACTION) (WITH HEATER)	775 WATTS
CASH DEPOSIT	295 WATTS
CASH DISPENSE	265 WATTS



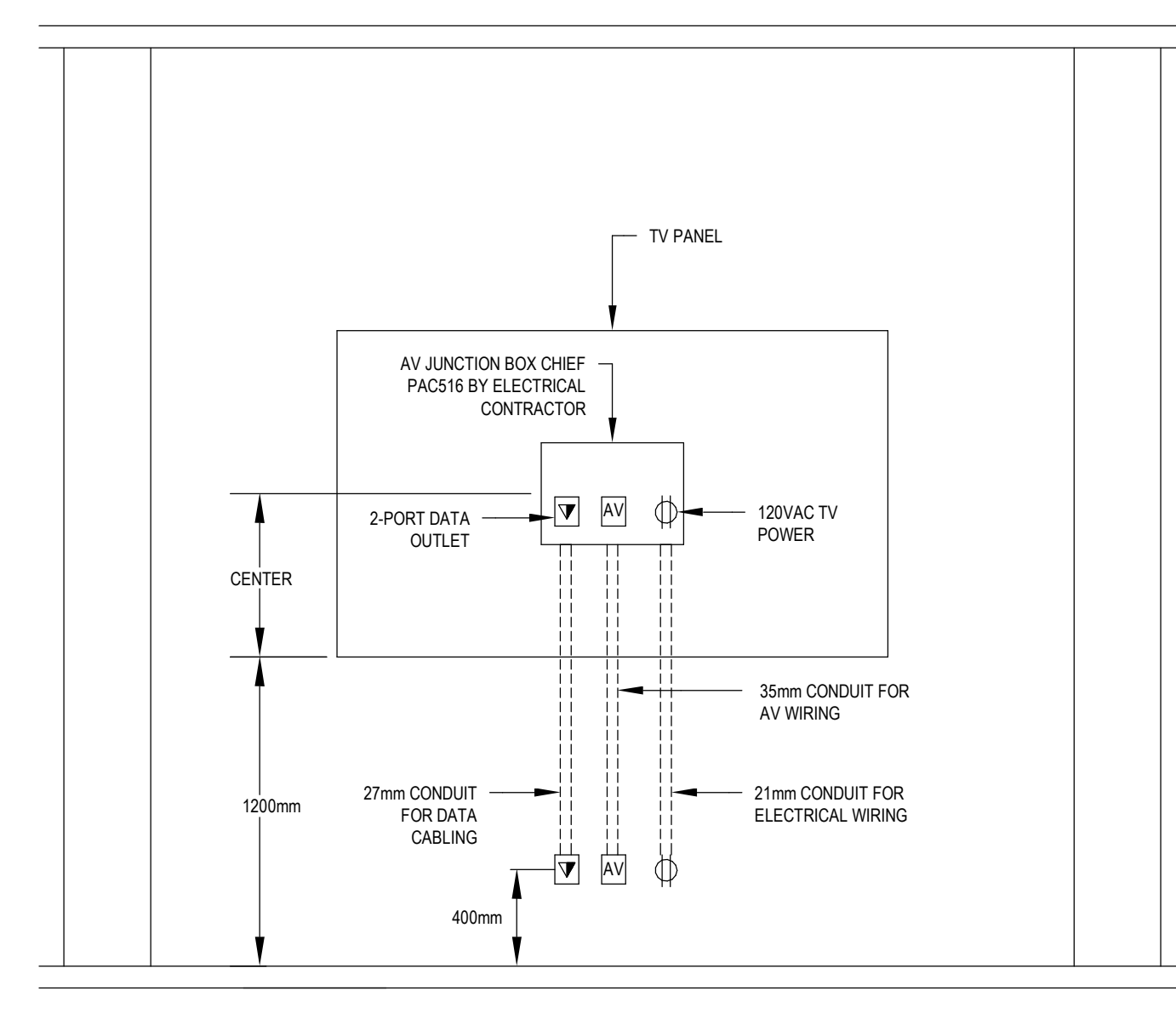
**7 POWER CABLE PLATE**  
**E103 NTS**

**CABLE ENTRY NOTE:**  
ELECTRICAL AND DATA CABLING ENTERS THE TERMINAL THROUGH A CABLE ENTRY OPENING ON THE LEFT SIDE OF THE SAFE. CABLES ENTERING THE TERMINAL PASS THROUGH THE POWER CABLE PLATE ATTACHED TO THE EXTERIOR SIDE WALL OF THE SAFE AND THROUGH A RESTRICTOR BRACKET ATTACHED ON THE INTERIOR SIDE WALL OF THE SAFE AT THE CABLE ENTRY OPENING. THE CABLE ENTRY OPENING IS ON THE LEFT SIDE OF THE SAFE AS VIEWED FROM THE REAR OF THE TERMINAL.

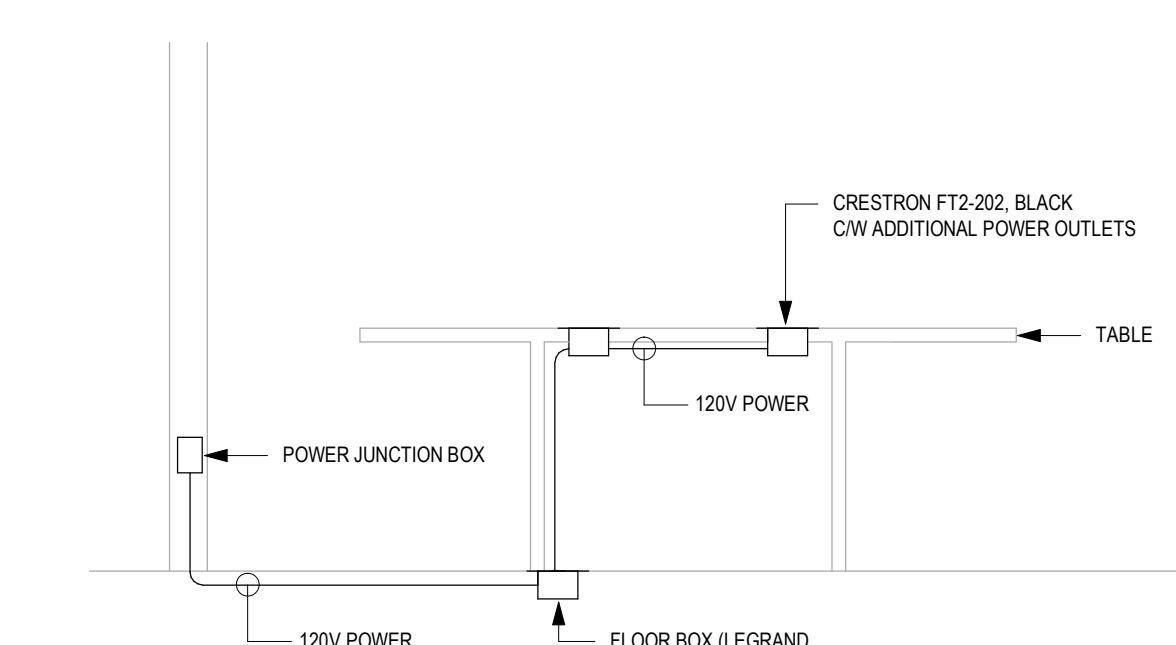


**8 TYPICAL MOUNTING HEIGHTS**  
**E103 NTS**

**NOTE:** ALIGN ALL EQUIPMENT VERTICALLY AND HORIZONTALLY



**9 TV CONDUIT ROUGH-IN DETAIL**  
**E103 NTS**



**10 TYPICAL AV DEVICE WIRING LAYOUT**  
**E103 NTS**

ELECTRICAL SPECIFICATIONS

1. GENERAL

1. GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK TO INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS, UNLESS SPECIFIED OTHERWISE, TO COMPLETE AND PUT INTO OPERATING CONDITION ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

2. IT IS THE INTENT OF THE WORK TO PROVIDE COMPLETE, NEATLY FINISHED, AND OPERATIONAL SYSTEMS AND ANY LABOR, MATERIAL, PERMITS, LICENSES, APPROVALS AND INSPECTIONS REQUIRED FOR COMPLETION OF THE WORK, WHETHER SPECIFICALLY MENTIONED IN THE DRAWINGS OR SPECIFICATIONS OR NOT, ARE TO BE INCLUDED IN THE TENDERED PRICE.

3. RESPONSIBILITY AS TO WHICH TRADE PROVIDES REQUIRED ARTICLES OR MATERIALS RESTS SOLELY WITH THE GENERAL CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON GROUNDS OF DIFFERENCE OF INTERPRETATION OF SPECIFICATIONS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS.

4. THE DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE WORKS, INCLUDING ALL OF THOSE RELATED TO OTHER TRADES ARE TO BE EXAMINED BEFORE SUBMITTING TENDERS. ALL ELECTRICAL AND COMMUNICATIONS REQUIREMENTS INDICATED ARE TO BE INCLUDED IN THE SCOPE OF THE WORK.

5. CLEAN UP AND REMOVE ALL UNUSED WIRING AND CONDUITS.

6. REMOVE AND REINSTALL EXISTING DEVICES TO FACILITATE CONSTRUCTION AS REQUIRED.

7. CONFIRM OUTLET LOCATIONS AND MOUNTING HEIGHT WITH PROJECT COORDINATOR ON SITE PRIOR TO INSTALLATION.

8. FIRE PROOF ALL FIRE RATED PENETRATIONS AFTER INSTALLATION AS PER SECTION 98

9. COORDINATE WITH AND GET APPROVAL FROM LANDLORD FOR ALL DRILLING, CORING AND CUTTING OF BUILDING STRUCTURE. COORDINATE LOCATIONS ON SITE PRIOR TO CARRYING OUT THE WORK. ALLOW FOR ALL COSTS FOR X-RAYING/SCANNING. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE LANDLORD STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.

10. PROVIDE ALL NECESSARY TEMPORARY POWER AND LIGHTING.

11. WHERE TENANT SPACES ARE OCCUPIED BY THE CLIENT, ALL NOISY WORK SUCH AS (BUT NOT RESTRICTED TO) WIRING AND CABLING/PULLING, INSTALLATION OF CONDUIT SHALL BE DONE AFTER HOURS. WIRING CONNECTIONS TO SYSTEMS FURNITURE TO BE DONE ON WEEKEND, INCLUDING CABLING TERMINATIONS.

2. DRAWINGS AND SPECIFICATIONS

1. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE IS TO BE BINDING AS IF CALLED FOR BY BOTH.

2. SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS THAT LEAVES THE ELECTRICAL TRADE IN DOUBT AS TO TRUE INTENT AND MEANING, OBTAIN RULING FROM THE ENGINEER BEFORE SUBMITTING TENDER, OR ALLOW FOR THE MOST EXPENSIVE ALTERNATIVE.

3. EXAMINATION OF OTHER DRAWINGS

1. THE ELECTRICAL CONTRACTOR IS TO EXAMINE CAREFULLY STRUCTURAL, ARCHITECTURAL, CIVIL, AND MECHANICAL DRAWINGS, AND THE WORK OF OTHER TRADES AND SATISFY HIMSELF THAT THE WORK UNDER CONTRACT CAN BE SATISFACTORILY CARRIED OUT WITHOUT CHANGES TO THE BUILDING AS SHOWN ON THE PLANS. SHOULD ANY DIFFICULTY ARISE SHOWING CONFLICT WITH OR REQUIRING ADDITIONAL WORK BEYOND THE WORK OF THESE DRAWINGS, BRING THIS MATTER TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING TENDER.

4. UNIFORMITY OF EQUIPMENT

1. UNLESS OTHERWISE SPECIFIED, UNIFORMITY OF MANUFACTURE IS TO BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT.

5. STANDARDS OF MATERIAL AND WORKMANSHIP

1. ALL MATERIALS ARE TO BE NEW AND OF THE QUALITY SPECIFIED, AND SHALL BE APPROVED BY CSA OR EQUIVALENT AGENCY RECOGNIZED IN ALBERTA.

2. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. THE ELECTRICAL CONTRACTOR SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS ON THE SITE DURING THE PROGRESS OF THE WORK.

3. ALL MATERIAL AND INSTALLATION SHALL MATCH BUILDING STANDARD UNLESS IT IS NOTED OTHERWISE ON THE DRAWINGS.

6. RECORD PLANS & MAINTENANCE MANUALS

1. THE ENGINEER WILL FURNISH TO THE ELECTRICAL TRADE ONE SET OF DRAWINGS TO BE USED FOR RECORD PURPOSES. THE ELECTRICAL TRADE IS TO ACCURATELY RECORD ON THESE PRINTS ALL REVISIONS TO THE ORIGINAL PLANS THAT ARE MADE ON SITE DURING CONSTRUCTION.

2. THE ELECTRICAL TRADE IS TO PRODUCE AT HIS OWN EXPENSE A SET OF RED LINE MARK-UP DRAWINGS, INCLUDING ALL CHANGES TO THE ORIGINAL TENDER DRAWINGS COVERED BY ADDENDA, CHANGE ORDERS, FIELD CHANGES, AND JOB CONDITIONS, AND TURN THESE OVER TO THE ENGINEER IN HARD COPY FORM. COMPLETED RECORD DRAWINGS ARE TO BE CLEARLY MARKED "RECORD DRAWINGS". REFER TO LINE ITEM 3.

3. THIS CONTRACTOR SHALL ALLOW FOR A COST OF \$350 PER DRAWING FOR TRANSFERRING RED LINE MARK-UPS TO ELECTRONIC AUTOCAD RECORD DRAWINGS AND THIS AMOUNT SHALL INCLUDED IN THE TENDER BID. CONTRACTOR MAY HIRE AES TO PRODUCE THE RECORD CAD DRAWINGS IF DESIRED.

4. THIS CONTRACTOR SHALL PROVIDE 3 THREE-RING BINDERS FOR MAINTENANCE MANUALS. MANUALS SHALL CONTAIN ALL WARRANTIES, SHOP DRAWINGS, INSPECTION LETTERS, PANEL SCHEDULES, ETC.

7. SHOP DRAWINGS

1. THE ELECTRICAL CONTRACTOR IS TO SUBMIT TO THE ENGINEER, FOR REVIEW, SHOP DRAWINGS OF MAJOR ELECTRICAL EQUIPMENT. SUCH EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO SWITCHGEAR, PANELBOARDS, SERIES-RATED BREAKER, COMBINATIONS, FIXTURES AND FITTINGS NOT PROVIDED BY THE OWNER.

2. ALL DRAWINGS ARE TO BE SUBMITTED IN TRIPPLICATE AND TWO COPIES WILL BE RETURNED TO THE ELECTRICAL TRADE. SUBMIT ADDITIONAL COPIES FOR APPROVAL AS MAY BE REQUIRED.

3. THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS TO BE FOR GENERAL DESIGN ONLY AND WILL NOT RELIEVE THE ELECTRICAL TRADE OR SUPPLIERS OF RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF WORK, AND FURNISHING OF MATERIALS. REVIEW WILL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED. THE ELECTRICAL TRADE IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

8. GUARANTEE WARRANTY

1. THE ELECTRICAL TRADE SHALL FURNISH A WRITTEN GUARANTEE WARRANTY, SIGNED BY AUTHORIZED PERSONNEL, STATING:

2. THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FROM DATE OF FINAL ACCEPTANCE.

3. THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK, AND OTHER WORK DAMAGED THEREBY, WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.

4. THE PERIOD OF THE GUARANTEE SPECIFIED WILL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF LONGER PERIOD BUT BE BINDING ON WORK NOT OTHERWISE COVERED.

9. SETTING OUT OF THE WORK

1. THE ELECTRICAL TRADE IS RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF DRAWINGS AND SPECIFICATIONS AND SHALL BEAR ALL COSTS INVOLVED IN MAKING THE CORRECTIONS, WHERE INTENT OF DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, OBTAIN CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING WITH WORK.

2. THE ELECTRICAL TRADE IS TO GIVE WORK HIS PERSONAL SUPERVISION, LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELING AND MEASURING OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL SIZE AND DETAIL DRAWINGS TO TAKE PRECEDENCE OVER SCALE MEASUREMENTS.

3. THE ELECTRICAL TRADE SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE OWNER OR ANY OTHER TRADE BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK.

4. THE ELECTRICAL TRADE, IN THE SETTING OUT OF HIS WORK, IS TO MAKE REFERENCE TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS. HE SHALL CONSULT WITH ALL RELEVANT TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LIGHTING FIXTURES, PANEL ASSEMBLIES, AND ALL OTHER ELECTRICAL EQUIPMENT, SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL SPACING IS MAINTAINED.

5. THE ELECTRICAL TRADE SHALL CONFIRM OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH THE PROJECT COORDINATOR ON SITE PRIOR TO INSTALLATION.

6. WHERE RECEPTACLES ARE MOUNTED ABOVE COUNTERS, BENCHES, SPLASHBACKS, OR OTHER FIXTURES, THEIR LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE BUILT-IN UNITS. REFER TO ARCHITECTURAL DETAILS, WHERE RECEPTACLES OCCUR IN OUTSIDE WALLS WHERE HEATING UNITS ALSO OCCUR, RECEPTACLE HEIGHT IS TO BE ADJUSTED TO COORDINATE WITH THE HEATING UNITS.

7. SWITCH MOUNTING HEIGHTS ARE TO BE COORDINATED WITH ARCHITECTURAL DETAILS AND SHALL BE ADJUSTED, IF REQUIRED, TO COORDINATE WITH PANELING, DADOS, MASONRY COURSE LINES, OR OTHER RELEVANT BUILDING FEATURES.

8. WHERE OUTLET BOXES OCCUR IN EXTERIOR WALLS, THE ELECTRICAL TRADE IS TO ENSURE THAT THERE IS INSULATION BEHIND THE OUTLET BOXES TO PREVENT CONDENSATION THROUGH THE BOXES.

9. ALLOW FOR WORK AFTER HOURS AS REQUIRED AND COORDINATE WITH OWNERTENANTS IF APPLICABLE.

10. CONTRACTOR TO COORDINATE ANY INTERRUPTIONS TO ADJOINING TENANTS IN ORDER TO AVOID ANY INCONVENIENCES TO SAID TENANT. IF NECESSARY CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF HO

10. EXAMINATION OF THE SITE

1. PRIOR TO SUBMITTING TENDER, THE ELECTRICAL TRADE SHALL CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS WHICH MAY AFFECT HIS TRADE. NO ADDITIONAL MONEY WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS THAT SHOULD HAVE BEEN NOTICED AND ACCOUNTED FOR DURING A THOROUGH EXAMINATION OF THE SITE, CUTTING AND PATCHING

2. THE GENERAL TRADE WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION. STRUCTURAL MEMBERS MUST NOT BE CUT WITHOUT CONSENT OF THE ENGINEER.

3. WHERE WORK DONE BY THE ELECTRICAL TRADE DAMAGES THE WORK OF OTHER TRADES, THE ELECTRICAL TRADE SHALL REPAIR AND MAKE GOOD SUCH DAMAGE TO THE SATISFACTION OF EACH TRADE CONCERNED AND THE ENGINEER.

4. ALL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL.

11. CLEANUP

1. THE ELECTRICAL TRADE AND HIS SUB-TRADES ARE TO KEEP THE SITE FREE DURING CONSTRUCTION OF DEBRIS, BOXES, PACKING, AND OTHER MATERIALS ASSOCIATED WITH THE WORK OF THIS TRADE. ALL WASTE MATERIAL IS TO BE DISPOSED OF IN A SAFE AND ENVIRONMENTALLY RESPONSIBLE MANNER.

2. UPON COMPLETION OF WORK, THE ELECTRICAL INSTALLATION SHALL BE LEFT IN A CLEAN AND FINISHED CONDITION TO THE SATISFACTION OF THE ENGINEER.

12. ACCESS DOORS

1. THE ELECTRICAL TRADE IS TO SUPPLY AND INSTALL ACCESS DOORS AS REQUIRED FOR PROPER SERVICING OF ALL ELECTRICAL WORK. ACCESS DOORS SHALL BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH CAPTIVE STUDS. ACCESS PANEL TO BE OF NOT LESS THAN 14 GAUGE STEEL, PRIME COAT FINISHED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH.

2. THE NUMBER OF ACCESS DOORS SHALL BE KEPT TO A MINIMUM.

3. THE ELECTRICAL TRADE SHALL PROVIDE ACCESS PANELS IN THE DRYWALL CEILINGS FOR ALL ELECTRICAL JUNCTION BOXES AND EQUIPMENT IN ACCORDANCE WITH APPLICABLE CODES.

13. CODES, PERMITS AND INSPECTION

1. THE ENTIRE INSTALLATION, INCLUSIVE OF MATERIAL AND LABOR, IS TO COMPLY WITH ALL THE REQUIREMENTS OF ALL BUILDING CODES AND AUTHORITIES HAVING JURISDICTION, THE CANADIAN ELECTRICAL CODE, AND REGULATIONS OF THE LOCAL INSPECTION DEPARTMENT.

2. THE ELECTRICAL TRADE IS TO OBTAIN ALL PERMITS REQUIRED FOR EACH STAGE OF WORK, AND AFTER COMPLETION OF THE ENTIRE INSTALLATION FURNISH TO THE ENGINEER A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT OF THE LOCAL AUTHORITY.

14. MECHANICAL EQUIPMENT

1. UNLESS SPECIFIED OTHERWISE, THE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL REQUIRED CONDUIT, WIRING, ELECTRICAL FITTINGS AND CONNECTIONS FOR ALL MOTORS AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH SUCH MOTORS AND OTHER ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS, WHERE REQUIRED BY THE DRAWINGS OR APPLICABLE REGULATIONS, DISCONNECT SWITCHES, STARTERS, OVERLOAD RELAYS AND OTHER NECESSARY PROTECTIVE DEVICES ARE TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MOTORS AND CONTROLS SHALL BE FURNISHED BY THE SUPPLIER OF THE DRIVEN EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL.

2. THE ELECTRICAL EQUIPMENT MAY INCLUDE BUT NOT BE LIMITED TO SUCH ITEMS AS GRILLE MOTORS AND INTERLOCKS, STOREFRONT AND INTERIOR SIGNAGE, STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, ALARM DEVICES OR SYSTEMS, PUSH BUTTONS, EXHAUST FANS, DATA SYSTEMS, INTERCOMS AND STEREO SYSTEMS.

3. THE ELECTRICAL CONTRACTOR IS TO CONFIRM MOTOR (OR OTHER EQUIPMENT) LOCATION AND SIZES WITH THE TRADE SUPPLYING THE MOTOR (OR OTHER EQUIPMENT) BEFORE COMMENCING ANY ASSOCIATED ELECTRICAL WORK.

15. TESTS

1. ALL PORTIONS OF ELECTRICAL WORK ARE TO BE TESTED FOR SATISFACTORY OPERATION.

2. BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, THE ELECTRICAL TRADE SHALL PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. ANY PROBLEMS DISCOVERED BY SUCH TESTING ARE TO BE CORRECTED BY THE ELECTRICAL TRADE AND THE CIRCUITS IN QUESTION RE-TESTED. THE RESULTS OF ALL FINAL TESTING SHALL BE PROVIDED TO THE ENGINEER IN REPORT FORM.

3. UPON PROJECT COMPLETION, AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, THE ELECTRICAL TRADE SHALL CHECK THE LOAD BALANCE ON ALL FEEDERS AND AT DISTRIBUTION CENTRES, LOAD CENTRES, AND PANELS. THESE CHECKS ARE TO BE CARRIED OUT BY TURNING ON ALL LOADS AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15 %, THE CIRCUITS ARE TO BE RECONFIGURED AS NECESSARY TO BALANCE THE LOADS.

16. PAINTING AND FINISHES

1. ALL ELECTRICAL FITTINGS, SUPPORTS, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, AND CLAMPS ARE TO HAVE A GALVANIZED FINISH OR A PAINT FINISH OVER CORROSION-RESISTANT PRIMER.

2. ALL PANELS ARE TO BE FACTORY-FINISHED WITH SPRAY-ON AIR DRY ENAMEL. ALL ENAMEL TO BE APPLIED OVER CORROSION-RESISTANT PRIMER, MATTE OR FLAT TYPE FINISH PAINT WILL NOT BE ACCEPTED. ALL PANELS OR SIMILAR FACTORY-FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATION ARE TO BE TOUCHED UP WITH MATCHING SPRAY-ON AIR DRY LACQUER AND, IF REQUIRED TO PROVIDE A SATISFACTORY JOB, TO BE COMPLETELY REFINISHED.

3. ALL 120/208 V PANELBOARDS, PULLBOXES, AND OTHER ELECTRICAL CABINETS AND BOXES ARE TO BE FINISHED IN GRAY ENAMEL.

17. EMT CONDUIT

1. WHERE REQUIRED BY THE CANADIAN ELECTRICAL CODE, ALL WIRE AND CABLE IS TO BE INSTALLED IN EMT CONDUIT.

2. UNLESS OTHERWISE NOTED, EMT CONDUIT ARE TO BE CONCEALED IN ALL FINISHED AREAS, IN SERVICE AREAS, CONDUIT AND EMT SHALL BE RUN ON SURFACE UNLESS INDICATED OTHERWISE.

3. SURFACE MOUNTED EMT CONDUIT ARE TO BE INSTALLED PARALLEL TO STRUCTURAL LINES, AND, WHERE BENDS OCCUR IN PARALLEL RUNS, THEY SHALL BE CENTRIC.

4. RACEWAYS ARE TO BE INSTALLED FREE FROM DENTS AND BRUISES AND SHALL HAVE THEIR ENDS CAPPED, PLUGGED, OR SEALED AS NECESSARY TO PREVENT ENTRANCE OF DIRT OR MOISTURE.

5. IN ALL AREAS SUBJECT TO MOISTURE, WATERTIGHT FITTINGS MUST BE USED.

6. ALL RACEWAY, EXCEPT WHERE OTHERWISE INDICATED, SHALL BE SIZED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

7. TECK90 OR SEAL TIGHT FLEXIBLE CONDUIT IS TO BE UTILIZED FOR CONNECTIONS TO MOTORS AND MOTOR CONTROLLERS.

18. EXPANSION JOINTS

1. WHERE CONDUITS ARE INSTALLED IN CONCRETE SLABS OR CROSS STRUCTURAL EXPANSION JOINTS, AN APPROVED EXPANSION FITTING SHALL BE INSTALLED.

19. WIRE AND CABLE

1. ALL BUILDING WIRING IS TO BE RW90, 600V, COPPER, EXCEPT WHERE NOTED OTHERWISE.

2. A MINIMUM CONDUCTOR SIZE OF #12 AWG COPPER IS TO BE USED, EXCEPT WHERE NOTED OTHERWISE.

3. ALL CONDUCTORS ARE TO BE COLOR CODED THROUGHOUT THE INSTALLATION AS FOLLOWS:

- EQUIPMENT GROUNDING CONDUCTOR - GREEN
- NEUTRAL CONDUCTOR - WHITE
- 120/240V PHASE WIRES - RED, BLACK

4. ALL WIRING AND CABLING IN EXPOSED OR OPEN CEILING AREAS IS TO BE INSTALLED IN EMT CONDUIT.

20. WIRING DEVICES & BOXES

1. ALIGN ALL DEVICES AND PLATES FLUSH AND LEVEL WITH BUILDING STRUCTURAL LINES.

2. ALL OUTLET BOXES ARE TO BE FLUSH MOUNTED EXCEPT WHERE SPECIFIED OTHERWISE.

3. ALL JUNCTION BOXES ARE TO HAVE VISIBLE P-TOUCH LABELS INDICATING THE CIRCUIT NUMBERS UTILIZED; PEN OR FELT IS NOT ACCEPTABLE.

4. SUPPLY AND INSTALL BLANK COVER PLATES FOR ALL UNUSED JUNCTION BOXES, INCLUDING EXISTING.

21. LOCATION OF OUTLETS

1. THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS TO WITHIN 3 M OF POINTS INDICATED ON PLANS WITHOUT EXTRA CHARGE, PROVIDED THE ELECTRICAL CONTRACTOR IS ADVISED BEFORE INSTALLATION IS MADE.

2. ELECTRICAL TRADE TO REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR POSITIONS, AND MOUNTING HEIGHTS OF ALL OUTLETS, SWITCHES, INTERCOMMUNICATION, TELEPHONES, SPEAKERS, CLOCKS, ETC. POSITIONS SHOWN ON ARCHITECTURAL PLANS TO TAKE PRECEDENCE OVER POSITIONS OR MOUNTING HEIGHTS SHOWN ON ELECTRICAL PLANS.

22. PULL BOXES

1. THE ELECTRICAL TRADE SHALL SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES SHALL CONFORM TO CANADIAN ELECTRICAL CODE REQUIREMENTS. PULLBOXES TO BE FINISHED IN ENAMEL OVER CORROSION-RESISTANT PRIMER WITH SCREW-ON OR HINGED COVER, IN REMOVABLE CEILING AREAS, PULLBOXES ARE TO BE INSTALLED ABOVE THE CEILING.

23. SWITCHES AND RECEPTACLES

1. ALL SWITCHES AND RECEPTACLES SHALL BE COMMERCIAL GRADE, MATCH EXISTING STANDARD WHERE STANDARD IS PRESENT, WHERE NO STANDARD IS PRESENT, PROVIDE WHITE DECORA SWITCHES AND RECEPTACLES AND WHITE DECORA FACEPLATES.

2. PROVIDE P-TOUCH LABELS FOR ALL RECEPTACLE LABELS.

3. FOR ALL RECEPTACLES OTHER THAN STANDARD 15A DUPLEX RECEPTACLES, PROVIDE LAMACOID NAMETAGS GIVING AMP RATING, PHASE AND VOLTAGE.

4. GROUND FAULT CIRCUIT INTERRUPTING (GFI) DUPLEX RECEPTACLES SHALL BE COMMERCIAL GRADE.

5. ISOLATED GROUND (IG) RECEPTACLES SHALL BE COMMERCIAL GRADE.

24. SUPPORTS

1. ALL CONDUIT, RACEWAYS, AND OTHER ELECTRICAL EQUIPMENT SHALL BE SECURELY AND ADEQUATELY SUPPORTED, IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

2. WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS ARE TO BE USED IN DRILLED HOLES. SHOT DRIVEN PINS MAY BE USED IN STRUCTURAL CONCRETE ONLY WITH THE PERMISSION OF THE ENGINEER.

25. GROUNDING AND BONDING

1. A COMPLETE GROUNDING AND BONDING SYSTEM SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE AND THE ELECTRICAL INSPECTION DEPARTMENT.

2. ALL METAL PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO, SECONDARY FEEDER CIRCUITS, EQUIPMENT AND PANELBOARD ENCLOSURES, METAL RACEWAYS, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METAL RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS WHERE NECESSARY TO PROVIDE GROUND CONTINUITY.

3. A SEPARATE GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAY FEEDER RUNS, FLEXIBLE CONDUIT, AND IN CONDUIT INSTALLED IN SLAB OR UNDERGROUND.

4. THIS CONTRACTOR IS RESPONSIBLE FOR THE GROUNDING OF ALL THE EQUIPMENT RACKS IN THE SERVER ROOM, THE CABLE TRAY, ELECTRICAL EQUIPMENT AND ANY CONDUIT. ALL GROUNDING OF SERVER RACKS MUST BE IN ACCORDANCE TO MANUFACTURERS GUIDELINES AND RECOMMENDATIONS.

26. LIGHTING LUMINAIRES AND LIGHTING CONTROLS

1. PROVIDE A NEW LIGHTING SYSTEM, COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND I.L.C LISTING REQUIREMENTS. UNLESS NOTED OTHERWISE, ALL FIXTURES AND LAMPS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE DRAWINGS.

2. ELECTRICAL TRADE TO INSTALL ALL LIGHTING LUMINAIRES COMPLETE WITH LAMPS, MOUNTING BRACKETS, BALLASTS AND ALL NECESSARY ACCESSORIES IN ACCORDANCE WITH THE LUMINAIRE TYPES SHOWN ON THE DRAWINGS, OR OTHERWISE SPECIFIED.

3. ALL LUMINAIRES SHALL BE ALIGNED, AS APPROPRIATE, WITH ONE ANOTHER AND WITH STRUCTURAL LINES.

4. ALL LUMINAIRES SHALL BE CLEANED AND LAMPED UPON COMPLETION OF WORK AND PRIOR TO FINAL ACCEPTANCE. UTILIZE MANUFACTURER'S APPROVED OR RECOMMENDED CLEANING SOLUTIONS.

5. WHERE NO SWITCH IS INDICATED ON THE DRAWINGS FOR LIGHTING IN PUBLIC AREAS OF THE BUILDING, THE LUMINAIRES SHALL BE SWITCHED FROM THE PANEL. BREAKERS USED FOR SUCH SWITCHING SHALL BE SWITCH RATED.

6. SWITCHES SHALL HAVE A CURRENT RATING NOT LESS THAN THAT OF THE CIRCUIT TO WHICH THEY ARE CONNECTED.

7. ELECTRICAL TRADE TO SUPPLY AND INSTALL ALL LIGHTING CONTROLS WITH LINE VOLTAGE SWITCHES, DIMMER SWITCHES (RATED 1500W), LOW VOLTAGE SWITCHES, LIGHTING RELAYS, BARRIER AND ALL CONTROL WIRING AND COMPONENTS TO SUIT THE LAYOUT. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER AND COMPLY WITH CODES.

8. LOW VOLTAGE MASTER SWITCHES AND BUILDING LIGHTING CONTROL SHALL HAVE THE CAPABILITY TO TURN ON AND OFF ALL LIGHTING (120 VOL) WITH THE EXCEPTION OF LUMINAIRES ON EMERGENCY LIGHTING CIRCUITS OR UNSWITCHED NIGHT LIGHT CIRCUITS.

9. COORDINATE LIGHTING CONTROL PROGRAMMING WITH THE BUILDING SUPERVISOR.

10. CONTRACTOR TO ALLOW FOR HIRING A THIRD PARTY COMMISSIONING AGENCY TO PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA, PERFORMANCE CRITERIA AS FOLLOWS:

- CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE. LIGHTS TURN OFF ONLY AFTER SPECIFIED TIME. TESTED LIGHTS SHALL TURN OFF UPON 30 MINUTES OF VACANCY AND SHALL BE TURNED ON MANUALLY VIA SWITCH.
- CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- CONFIRM THAT PHOTOSENSOR CONTROLS REEDED ELECTRIC LIGHT LEVELS BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

THE PARTY RESPONSIBLE FOR THE FUNCTIONAL TESTING SHALL NOT BE DIRECTLY INVOLVED IN EITHER THE DESIGN OR CONSTRUCTION OF THE PROJECT.

27. EMERGENCY LIGHTING

1. EMERGENCY LIGHTING TO BE POWERED BY BATTERY PACKS CAPABLE OF 30 MINUTE RUN TIME UNDER FULL LOAD.

2. EMERGENCY CIRCUITS ARE TO BE LOADED TO A MAXIMUM OF 80% ALLOWING CAPACITY FOR FUTURE USE.

3. ALL EMERGENCY LIGHTING IS TO OPERATE AUTOMATICALLY AND IMMEDIATELY UPON FAILURE OF NORMAL POWER SUPPLY.

4. ALLOW FOR FIVE (5) ADDITIONAL EXIT SIGNS, TO BE INSTALLED AT OWNER'S REQUEST.

28. COMMUNICATIONS (VOICE AND DATA) & SECURITY

1. NO CONDUIT RUN SHALL EXCEED TWO 90 DEGREE BENDS AND ONE 45 DEGREE SWEEPING BEND.

2. ALL COMMUNICATION BACKBOARDS ARE TO BE 21mm thick, G15, AND PAINTED WITH FIRE RETARDANT PAINT TO MATCH COLOR OF THE ROOM.

3. THE INSTALLATION OF COMMUNICATIONS EQUIPMENT, AND CONDUIT TO BE USED FOR COMMUNICATION WIRES, SHALL COMPLY IN ALL RESPECTS WITH THE REQUIREMENTS OF TELUS AND SHAW AND TO EIA/TIA TELECOMMUNICATION STANDARDS.

4. PROVIDE DOUBLE GANG BOX C/W SINGLE GANG MUD RING, OUTLET BOXES AND EMPTY CONDUITS C/W PULL STRING FOR COMMUNICATIONS OUTLETS AS SHOWN ON THE DRAWINGS.

5. INSTALL 3/4" EMT CONDUITS FROM EACH WALL OR FLOOR MOUNTED COMMUNICATION OUTLET (UNLESS NOTED OTHERWISE) TO THE RAISED FLOOR BUSHING AT BOTH ENDS.

6. THE CABLING CONTRACTOR MUST PERFORM A PERMANENT LINK TO VERIFY AND ENSURE FULL FUNCTIONAL CAPABILITIES. TESTING OF EACH CABLE MUST BE PERFORMED ON A PAIR-TO-PAIR BASIS. TESTING MUST BE PERFORMED ON ALL CABLES TERMINATED AT WORKSTATIONS. ALL TESTING MUST BE IMPLEMENTED IN BOTH DIRECTIONS. TESTS ARE TO BE DONE USING A LEVEL 6E TESTER IN ACCORDANCE WITH TIA/EIA-568-B.1 AND CONTAIN THE FOLLOWING DATA: WIRE MAP, INSERTION LOSS, LENGTH, NEAR-END CROSSTALK (NEXT), LOSS POWER, SUM NEAR-END CROSSTALK (PSNEXT), LOSS EQUAL-LEVEL FAR-END CROSSTALK (ELFEXT), POWER SUM EQUAL-LEVEL FAR-END CROSSTALK (PSELFEXT), RETURN LOSS, PROPAGATION DELAY, DELAY SKEW.

7. SECURITY SYSTEM TO BE BY OTHER CONTRACTOR TO PROVIDE ROUGH IN FOR SECURITY DEVICES, RE-USE BASE BUILDING SECURITY ROUGH IN WHERE POSSIBLE.

29. IDENTIFICATION

1. IDENTIFY ALL MAJOR PIECES OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, ELECTRICAL CABINETS, AND BREAKERS IN PANELBOARDS WITH ENGRAVED LAMACOID LABELS, BLACK LETTERING ON WHITE BACKGROUND.

2. PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS.

3. PROVIDE LAMACOID NAMEPLATE ON EACH PANEL COVER TO IDENTIFY PANEL NAME, NUMBER OF PHASES, VOLTAGE, CURRENT RATING AND SOURCE OF FEEDER.

4. IDENTIFY BRANCH CIRCUIT WIRES TO MEET CODE REQUIREMENTS.

5. FIRE ALARM BREAKER TO BE PAINTED RED AND CLEARLY IDENTIFIED.

30. ALTERNATES

1. ALL REQUESTS FOR ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER NOT LESS THEN 5 DAYS PRIOR TO THE CLOSE OF TENDER.

2. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ENSURING THAT ALTERNATE PRODUCTS MEET ALL SPACE, WEIGHT, CONNECTION, POWER, WIRING, AND PERFORMANCE REQUIREMENTS.

31. FIRE STOP

1. AFTER INSTALLATION OF THE ELECTRICAL, ALL PENETRATIONS OF FIRE ZONES FOR CONDUITS, SLEEVES, CABLE TRAYS, POKETHRUS ETC. SHALL BE SEALED USING MATERIAL AND METHODS THAT MEET THE REQUIREMENTS OF U.L.C STANDARDS CANULC-S115 AND INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THE FIRE STOP MATERIAL SHALL ALLOW FOR RE-ENTRANCE ACCESS. CSA T530 APPENDIX B SHALL BE USED AS A GUIDE. BEFORE INSTALLATION, CONTRACTOR SHALL IDENTIFY A FIRE STOPPING SYSTEM SUITABLE FOR THE INSTALLATION. CONTRACTOR SHALL OBTAIN SHOP DRAWINGS OF THE FIRE STOP SYSTEM FROM MANUFACTURER AND SHOULD ON SITE. UPON REQUEST, BE ABLE TO PRODUCE FIRE STOP SHOP DRAWINGS FOR CONSULTANT. ALLOW FOR 2% DESTRUCTIVE TESTING OF THE FIRE STOPPING INSTALLATION.

2. LABEL FIRE STOP PENETRATIONS WITH PRODUCT USED AND cUL SYSTEM NUMBER WITH STICKER.

CONSULTANTS

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NOTES

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PROJECT TITLE

# CONNECT FIRST - RED DEER

Unit 110  
6005 67A Street  
Red Deer, AB  
T4P 2Z3

ISSUE: 3

No.	Date	Description
3	19-07-11	BUILDING PERMIT AND TENDER
2	19-07-03	95% DRAWING REVIEW
1	19-06-01	50% DD

SCALE: NTS

DRAWN BY: BS

CHECKED BY/QA: DK

PROJECT NO: 3-19-015

DRAWING CONTENTS

# ELECTRICAL SPECIFICATIONS

SHEET NUMBER

COMMUNICATION SPECIFICATIONS

COMMUNICATION CABLING PRICING (DIVISION 27) SHALL BE PROVIDED SEPARATE FROM ELECTRICAL (DIVISION 26).

1. SCOPE OF WORK
  1. SUPPLY AND INSTALLATION OF NEW HORIZONTAL CABLING SYSTEM, DATA CAT 6 UTP CABLE, CONNECTORS AND COVER PLATES AS SHOWN ON THE DRAWINGS.
  2. INSTALLATION AND GROUNDING OF A NEW WALL MOUNT NETWORK CABINET AS SHOWN ON THE DRAWINGS.
  3. SUPPLY AND INSTALLATION OF PATCH PANELS AND PATCH CORDS.
  4. SUPPLY AND INSTALLATION OF POWER BARS.
2. STANDARDS AND CODES
  1. CAN/CSA-T527-09 CAN/CSA-T528-07 CAN/CSA-T530-09 TIA/EIA-568-B.1 & B.1.1 TIA/EIA-568-B.2 TIA/EIA-568-B.3 TIA/EIA-569-B.
  2. ALLOW FOR PULL BOXES WHERE CONDUIT BENDS EXCEED 180 DEGREES OR 30 METERS BETWEEN PULL BOXES. BOND ALL NEW CONDUCTORS TO GROUND AT DATA CLOSET ONLY WITH #6 AWG GREEN INSULATED CONDUCTOR.
3. CONTRACTOR QUALIFICATIONS
  1. THE CABLING CONTRACTOR MUST BE CERTIFIED BY THE MANUFACTURER OF THE CABLING SYSTEM TO BE INSTALLED AND TO INSTALL COMPONENTS AND/OR CABLE BEING BID. USE ONLY TECHNICIANS FULLY TRAINED AND QUALIFIED ON INSTALLATION AND TESTING OF THE COMPONENTS TO BE INSTALLED. UPON REQUEST FROM THE ENGINEER, THE CONTRACTOR SHALL PROVIDE CERTIFIED DOCUMENTATION ON THE QUALIFICATIONS DESCRIBED ABOVE. FAILURE TO MEET OR PROVIDE SUCH DOCUMENTATION WILL BE THE BASIS FOR DISQUALIFICATION OF THE CABLING CONTRACTOR. ALL STAFF PERFORMING ANY TYPE OF WORK CONTAINED IN THIS SPECIFICATION MUST BE CERTIFIED IN THE INSTALLATION, TERMINATION AND TESTING OF ALL ASPECTS OF UTP CABLE SYSTEMS BY A RECOGNIZED EDUCATION INSTITUTION, OR A MAJOR CABLE MANUFACTURER, OR BEING THE HOLDER OF THE DESIGNATION OF REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD).
  2. THE VENDORS TO SUBMIT NAMES OF CABLING SYSTEM MANUFACTURER (CERTIFIED PERSONNEL) EMPLOYED WITH THE SAME FIRM THAT WILL BE WORKING ON THIS PROJECT.
  3. THE VENDORS TO SUBMIT A COPY OF THE CABLING SYSTEM MANUFACTURER CERTIFICATION INCLUSIVE IN THE TENDER PACKAGE.
4. CABLING
  1. CAT 6 UTP CABLE FOUR PAIR, UNSHIELDED, TWISTED, 22 TO 24 AWG, 100 OHM F/FT (FITS WITHIN PLenum SPACES), SOLID COPPER, TRANSMISSION REQUIREMENTS SHALL MEET OR EXCEED ALL REQUIREMENTS OF TIA/EIA-568-B.2 FOR CATEGORY 6 CABLING AND COMPONENTS. ALL CABLING TO BE BLUE IN COLOR.
  2. DO NOT EXCEED 90m FOR ANY END TO END HORIZONTAL CABLING.
  3. PROVIDE LABEL ON EACH END OF ALL COMMUNICATION CABLING. COORDINATE LABELING REQUIREMENTS WITH OWNER.
5. CONNECTORS/COULPERS/ADAPTERS
  1. CATEGORY 6 UTP CABLE CONNECTORS: 8P8W MODULAR FEMALE CONNECTORS AT BOTH ENDS OF HORIZONTAL CABLING. 8P8W MODULAR MALE CONNECTORS AT BOTH ENDS OF PATCH CORDS. IDC CONNECTORS FOR INSTALLATION IN CONSOLIDATION POINTS. ALL CONNECTORS SHALL MEET OR EXCEED ALL REQUIREMENTS OF TIA/EIA-568-B.1 & B.2. NON-KEYED, 4-PAIR, 8P8W MODULAR JACKS, T568A WIRING. USE SNAP-IN TYPE CONNECTORS AT BOTH ENDS OF CABLES. FOR INSTALLATION IN FACE PLATES NOTED IN ITEM #11. MODULAR CATEGORY 3 UTP CABLE CONNECTORS FOR VOICE RISER CABLES ONLY 8P8W MODULAR JACKS, NON-KEYED, CAT. 3, T568A (RGW) WIRING. IF 8P8W CAT. 3 JACKS ARE NOT AVAILABLE, THEN INSTALL CAT. 6 8P8W JACKS. ALL CONNECTORS SHALL MEET OR EXCEED ALL REQUIREMENTS OF TIA/EIA-568-B.1 AND TIA/EIA-568-B.2.
  2. EACH NEW DATA CABLE SHALL BE TERMINATED WITH RJ45 JACK AT BOTH ENDS. TERMINATE ON END AT DATA OUTLET AND THE OTHER END AT THE PATCH PANEL.
  3. VERIFY DATA, VOICE, ANALOG FAX, JACK COLOR WITH OWNER PRIOR TO INSTALLATION.
6. RACK UNIT
  1. WALL MOUNT RACK, PROVIDED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.
  2. HORIZONTAL CABLE MANAGEMENT SYSTEM: SUITABLE FOR MOUNTING ON 482.6MM (19") RACKS. MUST NOT TAKE UP MORE THAN 1 UNIT OF RACKSPACE. RACK MOUNT.
  3. COMPLETE WITH HINGED COVER AND ACCESS OUT-OUTS. CUT-OUTS TO BE SIZED TO ENSURE THEY MEET PATCH CORD BEND RADIUS REQUIREMENTS AS PER TIA/EIA-568-B.1.1. INSTALL HORIZONTAL CMS BETWEEN EACH PAIR OF 48 PORT PATCH PANELS. CHIMNEY CABLE MANAGEMENT SYSTEM SIMILAR IN SIZE TO VERTICAL CABLE MANAGEMENT SYSTEM. MUST BE EQUIPPED WITH A HINGED DOOR.
  4. TOP CABLE MANAGEMENT SYSTEM: A HORIZONTAL HINGED CABLE TROUGH (SIMILAR IN SIZE TO THE VERTICAL TROUGHS MOUNTED ON THE SIDES OF THE RACK) IS TO BE MOUNTED ON THE TOP OF EACH RACK FOR PATCH PANEL ACCESS FROM RACK TO RACK OR FROM ONE SIDE TO THE OTHER. TROUGH MUST HAVE A HINGED DOOR FACING FRONT.
7. POWER BAR
  1. PROVIDE POWER BAR COMPLETE WITH 6-OUTLETS, 12 FT SHIELDED CORD, ON/OFF SWITCH AND A RESET BREAKER. POWER BARS TO BE SUITABLE FOR RACK MOUNTING.
8. PATCH CORDS
  1. ALL PATCH CORDS ARE TO BE SUPPLIED BY THIS CONTRACTOR.
  2. MODULAR PATCH CORDS AND PIGTAILS: STRANDED CONDUCTORS CAT 6 PATCH CORDS, 4-PAIR, 24 AWG, 8P8W, T568A WIRING. PROVIDE THE QUANTITIES BASED ON THE NUMBER OF DROPS AS SHOWN ON THE DRAWINGS.
  3. ALL PATCH CORDS SHALL HAVE RJ45 JACKS AT BOTH ENDS. PROVIDE LENGTH TO SUIT. REFER TO DRAWINGS FOR DISTANCE TAKE-OFF AND ALLOW FOR VERTICAL DISTANCES. COLOUR OF PATCH CORDS TO BE BLUE OR BLACK (DIFFERENT FROM HORIZONTAL CABLING COLOUR).
  4. PROVIDE 2.1M PATCH CORDS ON WORKSTATION END. PROVIDE RJ45 ON BOTH ENDS. PROVIDE TWO PER WORKSTATION.
  5. PROVIDE ALL NECESSARY PIGTAILS FOR CROSS CONNECTING IDC FIELDS. PIGTAILS ARE TO BE IDC TERMINATED AT BOTH ENDS.
  6. LABEL EACH PATCH CORD AND PIGTAIL WITH SEQUENTIAL NUMBER AND THE CABLE LENGTH. E.G. "30.3" IS A PATCH CORD 30 WHICH IS 3M LONG. PROVIDE QUANTITIES BASED ON THE NUMBER OF DROPS AS SHOWN ON THE DRAWINGS.
9. PATCH PANEL
  1. SUPPLY AND INSTANT ALL ANGLED PATCH PANEL, CAT.6, 2U, 48 PORT, BLACK IN COLOR.
10. FACEPLATES
  1. FLUSH FACEPLATES FOR WALL MOUNTED OUTLETS: SUPPLY 4-PORT FACEPLATE FOR USE ON ALL FLUSH MOUNTED DEVICES. FOR ALL UNUSED DEVICES, INSTALL SINGLE GANG, FLUSH MOUNTED STAINLESS STEEL. PROVIDE 6 PORT FACEPLATE IN APPLICATIONS WHERE UP TO 6 CABLES ARE REQUIRED IN A SINGLE OUTLET.
  2. SURFACE ADAPTER BOX: FOR SURFACE MOUNTING ON WORKSTATION FURNITURE. SUPPLY 4 PORT FACEPLATE, INSTALL BLANKS ON UNUSED PORTS, SINGLE GANG, SURFACE MOUNTED, GREY COLOUR. SURFACE BOX TO BE SCREWED TO SURFACE. SELF-ADHESIVE TAPE IS NOT ACCEPTABLE. COMPATIBLE WITH FLUSH FACEPLATES.
11. TESTING CAT 3 & 6 CABLE
  1. THE CABLING CONTRACTOR MUST PERFORM A PERMANENT LINK TO VERIFY AND ENSURE FULL FUNCTIONAL CAPABILITIES. TESTING OF EACH CABLE MUST BE PERFORMED ON A PAIR-TO-PAIR BASIS. TESTING MUST BE PERFORMED ON ALL CABLES TERMINATED AT WORKSTATIONS. ALL TESTING MUST BE IMPLEMENTED IN BOTH DIRECTIONS. TESTS ARE TO BE DONE USING A LEVEL. I.E. TESTED IN ACCORDANCE WITH TIA/EIA-568-B.1 AND CONTAIN THE FOLLOWING: DATA WIRE MAP, INSERTION LOSS (NEXT) NEAR-END CROSSTALK (NEXT) LOSS POWER SUM NEAR-END CROSSTALK (PSENEXT) LOSS EQUAL-LEVEL FAR-END CROSSTALK (ELFEXT) POWER SUM EQUAL-LEVEL FAR-END CROSSTALK (PSELFEXT) RETURN LOSS PROPAGATION DELAY DELAY SKEW. REFER TO CBE SPECIFICATIONS SECTION 27-10-00, ITEM 4.
12. ABBREVIATIONS
  1. ETL ELECTRONIC TESTING LABORATORIES
  2. IDC INSULATION DISPLACEMENT CONNECTORS
  3. NEXT NEAR-END CROSSTALK
  4. STP SHIELDED TWISTED PAIR
  5. UTP UNSHIELDED TWISTED PAIR
13. GENERAL REQUIREMENTS
  1. THE PRODUCTS, WORKMANSHIP AND INSTALLATION SHALL CONFORM WITH ALL CURRENT CODES, GUIDELINES AND EI/ITA STANDARDS. CABLING SYSTEM SHALL BE OF ONE MANUFACTURER AND CERTIFIED BY THAT MANUFACTURER.
14. GROUNDING AND BONDING
  1. A COMPLETE GROUNDING AND BONDING SYSTEM SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE AND THE ELECTRICAL INSPECTION DEPARTMENT.
  2. ALL METAL PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO, SECONDARY FEEDER CIRCUITS, EQUIPMENT AND PANELBOARD ENCLOSURES, METAL RACEWAYS, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METAL RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS WHERE NECESSARY TO PROVIDE GROUND CONTINUITY.
  3. A SEPARATE GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAY FEEDER RUNS, FLEXIBLE CONDUIT, AND IN CONDUIT INSTALLED IN SLAB OR UNDERGROUND.
15. HORIZONTAL CABLING DISTRIBUTION
  1. WHERE MOUNTED IN CEILING SPACES, HANG CABLES WITH CAT. 6 APPROVED J-HOOKS EVERY 5' WHERE NOT INSTALLED IN CONDUIT OR IN CABLE TRAY. TY-RAP ARE NOT TO BE USED. VELCRO STRAPS SHALL BE USED. ALL CABLING MUST BE RUN PARALLEL TO BUILDING LINES. SHORTEST ROUTE IS NOT ACCEPTABLE.

16. DOCUMENTATION AS-BUILTS/RECORDS

1. ONE COPY OF THE FLOOR PLAN, TYPICALLY REFERRED TO AS 'AS-BUILT DRAWINGS' AND DETAILING THE ITEMS BELOW, IS TO BE PROVIDED UPON COMPLETION AND SUBMITTED WITHIN 2 WEEKS OF SUB-TRADES COMPLETION. ONE COPY OF THE FLOOR PLAN IS TO BE FIXED TO THE SERVER ROOM / DATA CLOSET ON THE SAME FLOOR. PRODUCE THE DRAWING USING AUTOCAD 2009 OR NEWER. PROVIDE 2 HARD COPIES AND AN AUTOCAD DISK OF AS-BUILT DRAWINGS. REQUIRED DETAILS: LOCATION AND LABEL OF EACH INSTALLED 8P8W, T568A JACK. PROVIDE HARD AND SOFT COPIES OF ALL TEST RESULTS. PROVIDE A CAT. 6 CERTIFICATE DOCUMENT ISSUED BY THE CABLE COMPONENT MANUFACTURER GUARANTEEING TRANSMISSION CAPABILITIES OF THE CABLING SYSTEM TO SUPPORT 1000 MBPS DEVICES FOR A PERIOD OF 25 YEARS. INSTALLATION TECHNICIANS MUST BE CERTIFIED THROUGH THE MANUFACTURERS CERTIFICATION PROGRAM. TECHNICIANS MUST PROVIDE EVIDENCE OF THEIR TRAINING CERTIFICATION. CONTRACTOR MUST SUPPLY DOCUMENTATION VERIFYING THEIR CURRENT PARTICIPATION IN THE MANUFACTURERS CERTIFICATION PROGRAM. MANUFACTURERS CERTIFICATION. THE MANUFACTURERS CERTIFICATION MUST GUARANTEE THAT DESIGN OR INSTALLATION ON THE PART OF THE CERTIFIED CONTRACTOR WILL NOT NEGATE OR VOID ANY PORTION OF THE CERTIFIED SYSTEM. MANUFACTURER MUST GUARANTEE THAT ALL MATERIAL AND LABOR IS COVERED IN THIS CIRCUMSTANCE FOR THE FULL CERTIFICATION PERIOD, AND IN THE EVENT THAT THE CONTRACTOR IS NO LONGER IN BUSINESS, THE FULL CERTIFICATION REMAINS VALID. THE INSTALLED STRUCTURED CABLING SYSTEM MUST BE COVERED BY A WARRANTY WHICH INCLUDES, AS A MINIMUM, 25 YEAR COVERAGE, WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FROM THE DATE OF INSTALLATION. REPAIR OR REPLACEMENT OF A FAILED COMPONENT, COVERING PARTS AND LABOR, AT NO CHARGE TO THE OWNER. SINGLE POINT OF CONTACT FOR ALL WARRANTY SERVICE.
2. PROVIDE MANUALS IN USB COPY ALSO.

17. SUBMITTALS

1. PRODUCT DELIVERY SCHEDULE WITHIN SEVEN (7) DAYS OF AWARD OF CONTRACT. A SCHEDULE MUST BE SUBMITTED BY THE CONTRACTOR TO THE CONSULTANT SHOWING PROJECTED ORDERING AND DELIVERY DATES OF ALL PRODUCTS TO MEET REQUIRED CONSTRUCTION SCHEDULE. PROVIDE ALL NECESSARY INFORMATION REGARDING ORDERING AND DELIVERY FOR ELECTRICAL PRODUCTS AS REQUIRED FOR SCHEDULING. SAMPLES SUBMIT SAMPLES AS REQUIRED WHERE SPECIFIED IN DIVISION 17. SHOP DRAWINGS AFTER RECEIVING APPROVAL OF LIST OF PRODUCTS, AND PRIOR TO DELIVERY OF ANY PRODUCTS TO JOBSITE AND SUFFICIENTLY IN ADVANCE OF REQUIREMENTS TO ALLOW AMPLI TIME FOR CHECKING, SUBMIT SHOP DRAWINGS FOR REVIEW AS SPECIFIED IN DIVISION 17. SHOP DRAWINGS MUST SHOW DETAILS, DIMENSIONS, CONSTRUCTION, SIZE, ARRANGEMENT, OPERATING CLEARANCES, PERFORMANCE CHARACTERISTICS AND CAPACITIES OF PRODUCTS AND PARTS OF THE WORK. MANUFACTURE OF PRODUCTS SHALL CONFORM TO REVIEWED SHOP DRAWINGS. KEEP ONE COMPLETE SET OF SHOP DRAWINGS AT JOBSITE DURING CONSTRUCTION. SHOP DRAWINGS MUST FOLLOW THE INTENT OF THE SPECIFICATIONS. APPROVAL OF THE SHOP DRAWINGS DOES NOT ALLEVIATE THE ELECTRICAL CONTRACTOR FROM ORDERING AN INCORRECT ITEM, PROJECT RECORD DRAWINGS BEFORE COMMENCING WORK, OBTAIN TWO SETS OF WHITE PRINTS OF ALL DRAWINGS PERTINENT TO THE WORK, KEEP DRAWINGS ON SITE AND, DAILY OR WEEKLY AS NECESSARY, RECORD OR COLOURED PENCIL ALL CHANGES, ALTERATIONS, OR ADDITIONS THAT MAY OCCUR DURING PROCESS OF THE WORK. BEFORE REQUESTING FINAL CERTIFICATE, MAKE ANY NECESSARY FINAL CORRECTIONS, ON A DISK USING AUTOCAD VERSION 2009. SIGN A CERTIFICATION OF ACCURACY AND DELIVER CAD COMPACT DISKS TO THE CONSULTANT. IN ADDITION TO DISKS, PROVIDE ONE (1) COMPLETE SET OF COLOUR COPY DRAWINGS AND ONE (1) BLACK AND WHITE OPERATION AND MAINTENANCE MANUALS WITHIN THIRTY (30) DAYS PRIOR TO SUBSTANTIAL PERFORMANCE. THE CONTRACTOR SHALL SUBMIT A DRAFT COPY OF THE PROPOSED CONTENTS OF EACH MAINTENANCE MANUAL TO THE CONSULTANT FOR REVIEW. ONCE THE DRAFT COPY IS APPROVED, THE CONTRACTOR WILL SUPPLY 2 COPIES IN SUITABLY LABELLED, HARD BACK, D-RING TYPE COMMERCIAL BINDERS, EACH COMPLETE WITH AN INDEX AND TABBED TITLE SHEETS FOR EACH SECTION. FINAL COPIES OF MANUALS TO BE RECEIVED BY CONSULTANT NOT LESS THAN 7 DAYS PRIOR TO SUBSTANTIAL PERFORMANCE. FOR THE TEST RESULT, ONE (1) COPY IS ADEQUATE. ALL MAINTENANCE MANUAL DATA SHALL BE PRINTED ON 8 1/2" X 11" HEAVY BOND, INDEXED, TABBED, PUNCHED AND BOUND IN THE BINDERS. EACH MANUAL SHALL HAVE A TITLE SHEET WHICH IS LABELLED "OPERATION & MAINTENANCE MANUAL," AND LISTS THE PROJECT NAME, CONTRACTORS AND CONSULTANTS NAMES, DATE SUBMITTED, AND A TABLE OF CONTENTS FOR EACH VOLUME. IF A MANUAL EXCEEDS 75MM IN THICKNESS, PROVIDE ADDITIONAL MANUALS AS REQUIRED. EACH SECTION OF THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION: SYSTEM DESCRIPTIONS, A BRIEF SYNOPSIS OF EACH SECTION AND INSERTED AT THE BEGINNING OF EACH SECTION. INCLUDE SKETCHES AND DIAGRAMS WHERE APPROPRIATE. DESCRIPTIVE AND TECHNICAL DATA, A COPY OF ALL WIRING DIAGRAMS COMPLETE WITH WIRE CODING, COPY OF TEST DATA, COPY OF FINAL INSPECTION CERTIFICATE. SET OF FINAL REVIEWED SHOP DRAWINGS, SET OF REDUCED AS-BUILT COMMUNICATIONS DRAWINGS (11" X 17" PLOTS). COMMUNICATIONS SPECIFICATIONS, THE EXCEL, SPREAD SHEETS FILLED UP BY THE CONTRACTOR(S) (HARD AND SOFT COPIES).

18. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT THE PRODUCTS OF THIS DIVISION BEFORE, DURING AND AFTER INSTALLATION AND TO PROTECT PRODUCTS AND INSTALLED WORK OF ALL OTHER TRADES. IMMEDIATELY MAKE GOOD ANY DAMAGE BY REPAIR AND REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER AND TO THE APPROVAL OF THE CONSULTANT. REMOVE ALL UNNECESSARY LABELS FROM DEVICES. REMOVE DIRT, RUBBISH, GREASE, ETC. RESULTING FROM THIS WORK FROM ALL SURFACES.

19. SELECTED PRODUCTS & EQUIVALENTS

1. SELECTED PRODUCTS ARE SPECIFIED AND/OR SHOWN ON THE DRAWINGS, SPEC., AND IDENTIFIED BY MANUFACTURERS NAME, TYPE AND CATALOGUE NUMBER. THE TENDER SHALL BE BASED ON THE USE OF ONLY THESE SELECTED PRODUCTS OR APPROVED EQUIVALS WHERE INDICATED. PROVIDE ALL NECESSARY INFORMATION FOR APPROVALS MINIMUM 1 WEEK PRIOR TO TENDER CLOSING.
2. APPROVED MANUFACTURERS: BELDEN, AMP, PANOUTI, OR APPROVED BY OWNERS' IT DEPARTMENT

20. SUBSTITUTION OF PRODUCTS

1. IMMEDIATELY AFTER NOTIFICATION OF AWARD OF CONTRACT, REVIEW WITH THE CONSULTANT A LIST OF PRODUCTS PROPOSED. AFTER APPROVAL OF THE LIST OF PRODUCTS, NO SUBSTITUTION OF ANY ITEM WILL BE PERMITTED UNLESS THE APPROVED ITEM CANNOT BE DELIVERED TO THE JOB SITE IN TIME TO COMPLY WITH THE WORK SCHEDULE. TO RECEIVE APPROVAL, PROPOSED SUBSTITUTES MUST EQUAL OR EXCEED THE QUALITY, FINISH AND PERFORMANCE OF THOSE SPECIFIED AND/OR SHOWN. AND MUST NOT EXCEED THE SPACE REQUIREMENTS ALLOTTED ON THE DRAWINGS. PROVIDE DOCUMENTARY PROOF OF EQUALITY, DIFFERENCE IN PRICE (IF ANY) AND DELIVERY DATES IN THE FORM OF CERTIFIED QUOTATIONS FROM SUPPLIERS OF BOTH SPECIFIED ITEMS AND PROPOSED SUBSTITUTIONS TO THE CONSULTANT. INCLUDE COSTS FOR ANY REQUIRED REVISIONS TO OTHER STRUCTURES AND PRODUCTS TO ACCOMMODATE SUCH SUBSTITUTIONS.

21. QUALITY OF PRODUCTS

1. ALL PRODUCTS PROVIDED SHALL BE CSA APPROVED BY AN ELECTRICAL TESTING AGENCY APPROVED BY THE PROVINCE ELECTRICAL SAFETY BRANCH AND NEW, UNLESS OTHERWISE SPECIFIED. PRODUCTS PROVIDED, IF NOT SPECIFIED, SHALL BE NEW, OF A QUALITY BEST SUITED TO THE PURPOSE REQUIRED AND THEIR USE SUBJECT TO APPROVAL BY THE CONSULTANT.

22. UNIFORMITY OF MANUFACTURE

1. UNLESS OTHERWISE SPECIFICALLY CALLED FOR IN THE SPECIFICATIONS, UNIFORMITY OF MANUFACTURE MUST BE MAINTAINED FOR SIMILAR PRODUCTS THROUGHOUT THE WORK.

23. SITE EXAMINATION

1. 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. REPORT TO THE CONSULTANT ANY UNSATISFACTORY CONDITIONS, WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THIS WORK.

24. CO-ORDINATION WITH OTHER DIVISIONS

1. EXAMINE THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS, BEFORE COMMENCING WORK. OBTAIN A RULING FROM THE CONSULTANT IF ANY CONFLICT EXISTS, OTHERWISE NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY NECESSARY ADJUSTMENTS. INSTALL ANCHORS, BOLTS, PIPE SLEEVES, HANGER INSERTS, ETC. IN AMPLI TIME TO PREVENT DELAYS. LAY OUT THE WORK AND EQUIPMENT WITH DUE REGARD TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL FEATURES. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER COMMUNICATIONS DRAWINGS REGARDING LOCATIONS OF WALLS, DOORS, EQUIPMENT AND FINISHES. FOR EXACT LOCATION OF EQUIPMENT SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. DO NOT CUT STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE CONSULTANT. EXAMINE PREVIOUSLY CONSTRUCTED WORK AND NOTIFY THE CONSULTANT OF ANY CONDITIONS WHICH CONTRAVENE ALL CODES AND BY-LAWS OR WHICH PREJUDICE THE PROPER COMPLETION OF THIS WORK. COMMENCEMENT OF THIS WORK WITHOUT SUCH NOTIFICATION SHALL CONSTITUTE ACCEPTANCE OF OTHER WORK.

25. SEPARATION OF SERVICES

1. MAINTAIN SEPARATION BETWEEN COMMUNICATION WIRING SYSTEM AND ELECTRICAL WIRING SYSTEM, BUILDING PIPING, DUCTWORK, ETC. SO THAT WIRING SYSTEM IS ISOLATED (EXCEPT AT APPROVED CONNECTIONS TO SUCH SYSTEMS) TO PREVENT GALVANIC CORROSION. IN PARTICULAR, CONTACT BETWEEN DISSIMILAR METALS, SUCH AS COPPER AND ALUMINIUM, IN DAMP OR WET LOCATIONS IS NOT PERMITTED. DO NOT SUPPORT WIRING FROM PIPES, DUCTWORK, ETC. HANGERS FOR SUSPENDED CEILINGS MAY BE USED FOR THE SUPPORT OF WIRING ONLY WHEN APPROVAL IS OBTAINED FROM SEISMIC ENGINEER FOR THE CEILING INSTALLED, AND APPROVED CLIPS OR HANGERS ARE USED.

26. LOCATION OF OUTLETS

1. OUTLET AND EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. LOCATIONS MAY BE REVISED WITHIN 3m WITHOUT ADDITIONAL COST TO THE OWNER.

27. INSTRUCTIONS TO OWNERS PERSONNEL

1. INSTRUCT OWNERS PERSONNEL IN OPERATION AND MAINTENANCE OF COMMUNICATIONS SYSTEMS. PAY ALL COSTS FOR SUCH INSTRUCTION, INCLUDING ANY COSTS RELATED TO INSTRUCTION BY MANUFACTURERS REPRESENTATIVES.

28. RACK POWER OUTLETS

1. THIS CONTRACTOR TO CO-ORDINATE WITH THE ELECTRICAL CONTRACTOR FOR INSTALLATION OF POWER OUTLETS IN EACH RACK AND CABINET.

29. COMMISSIONING

1. PROVIDE NECESSARY LABOR, MATERIAL AND EQUIPMENT FOR A PROPER COMMISSIONING OF THE PROJECT. AID OWNERS PERSONNEL IN COMMISSIONING.

30. SEPARATION OF SERVICES

1. MAINTAIN SEPARATION BETWEEN COMMUNICATION WIRING SYSTEM AND ELECTRICAL WIRING SYSTEM, BUILDING PIPING, DUCTWORK, ETC. SO THAT WIRING SYSTEM IS ISOLATED (EXCEPT AT APPROVED CONNECTIONS TO SUCH SYSTEMS) TO PREVENT GALVANIC CORROSION. IN PARTICULAR, CONTACT BETWEEN DISSIMILAR METALS, SUCH AS COPPER AND ALUMINIUM, IN DAMP OR WET LOCATIONS IS NOT PERMITTED. DO NOT SUPPORT WIRING FROM PIPES, DUCTWORK, ETC. HANGERS FOR SUSPENDED CEILINGS MAY BE USED FOR THE SUPPORT OF WIRING ONLY WHEN APPROVAL IS OBTAINED FROM SEISMIC ENGINEER FOR THE CEILING INSTALLED, AND APPROVED CLIPS OR HANGERS ARE USED.

31. WIRELESS SYSTEM

1. IN HIGH IMPACT AREAS WIRELESS ACCESS POINTS ARE TO BE MOUNTED IN PROTECTIVE ENCLOSURES.
2. CONTRACTOR TO SUPPLY WIRELESS ACCESS POINTS, MOUNTING GEAR, CAGES AND PATCH CORDS.

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SEALS



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NOTES

1. Contractor to check and verify all dimensions prior to commencing work.
2. Contractor to comply with all building codes, regulations, and ordinances of authorities having jurisdiction.
3. This drawing is not to be used for construction unless stamped issued for construction by Lemay + Toker.
4. Do not scale drawing.
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PROJECT TITLE

## CONNECT FIRST - RED DEER

Unit 110  
6005 57A Street  
Red Deer, AB  
T4P 2Z9

ISSUE: 3

No.	Date	Description
3	19-07-11	BUILDING PERMIT AND TENDER
2	19-07-03	95% DRAWING REVIEW
1	19-06-01	50% DD

SCALE:

DRAWN BY: BS

CHECKED BY/QA: DK

PROJECT NO: 3-19-015

DRAWING CONTENTS

## COMMUNICATION SPECIFICATIONS

SHEET NUMBER

E105