

Government  
of Canada

# Canada

## Police Transportable Holding Cells

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#### CONSULTANTS:

#### ARCHITECTURAL:

RBM ARCHITECTURE INC.  
2206 SPEERS AVENUE  
SASKATOON, SK S7L 5X7  
PH. (306) 242.2636 FAX. (306) 242.9130

#### STRUCTURAL :

GENIVAR  
15 INNOVATION BLVD, SUITE 210  
SASKATOON, SK S7N 2X8  
PH. (306) 665.6223 FAX (306) 665.8589

#### MECHANICAL :

GENIVAR  
15 INNOVATION BLVD, SUITE 210  
SASKATOON, SK S7N 2X8  
PH. (306) 665.6223 FAX (306) 665.8589

#### ELECTRICAL:

PWA ENGINEERING LTD.  
102, 701 CYNTHIA STREET  
SASKATOON, SK S7L 6B7  
PH. (306) 244.6371 FAX (306) 664.2771

#### GENERAL NOTES:

#### TRAILER FABRICATION OF HOLDING CELLS:

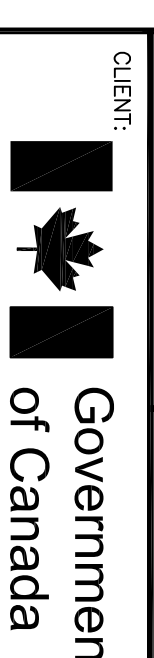
1. DESIGN AND FABRICATION OF STRUCTURAL FRAME TO BE COORDINATED WITH TRAILER EQUIPMENT MANUFACTURER. WORK UP ASSEMBLY TO INCLUDE ALL CONNECTIONS AND HOOK-UPS REQUIRED TO COMMISSION SYSTEM. TRAILER EQUIPMENT MANUFACTURER/FABRICATOR SHALL OUTFIT THE TRAILER WITH THE FOLLOWING TYPES AS REQUIRED)
  - DITCH (TYPES AS REQUIRED)
  - DOUBLE AXLES
  - RIMS AND TIRES
  - SUSPENSION
  - ELECTRICAL TO SUIT TRAILER LIGHTS
  - BRAKES AND BRAKE LINE ROUTING
  - SCREW TYPE JACKS
2. COORDINATE INSTALLATION OF CONDUIT, PIPING, AND DUCTWORK w/ STRUCTURE. PROVIDE ALL NECESSARY MOUNTING BRACKETS/STRAPS AS REQUIRED.
3. WELD BRACKET AS REQUIRED TO SUPPORT AIR CONDITIONING UNIT AS PER PER ELEVATIONS
4. ALL METAL SHALL BE GROUND SMOOTH AROUND ALL PERIMETER OPENINGS AND AT CUTS TO FULLY REMOVE ANY/ALL BURRS.
5. DO NOT CUT THROUGH ANY STRUCTURAL MEMBERS FOR FACILITATION OF MECHANICAL OR ELECTRICAL UNLESS NOTED OTHERWISE.

#### DEPLOYMENT OF HOLDING CELLS: (NOT IN CONTRACT - FOR REFERENCE ONLY)

1. SITE PREPARATION AND UTILITY CONNECTIONS WILL BE A SEPARATE CONTRACT. REFER TO DRAWING A101 FOR EXTENT OF WORK.
2. FINAL CONSTRUCTION OF DESIGN SHALL MEET ALL CURRENT BUILDING CODES, AND BE IN ACCORDANCE w/ LOCAL BYLAWS AND ZONING REQUIREMENTS.
3. TRANSPORTATION OF THE TRAILERS, POSITIONING AND CONNECTION OF THE TRAILERS IS INCLUDED IN THE SCOPE OF THE CONSTRUCTION CONTRACT.
4. FOUNDATIONS DESIGN AS PER STRUCTURAL DRAWINGS, INCLUDING CONNECTION, ANCHORING, AND JACKING POINTS, SITE SPECIFIC GROUND WORK AND STRUCTURAL PADS SHALL BE DONE UNDER SEPARATE CONTRACT.
5. TRANSPORTABLE CELL UNITS SHALL BE POSITIONED AND LINKED TOGETHER ON FOUNDATIONS LEVEL, AND PLUMB, c/w CONNECTION OF SERVICES BETWEEN UNITS TYPICAL.
6. ESTABLISH FINAL ELEVATIONS ON SITE. ENSURE DRAINAGE TO SLOPE AWAY FROM BUILDING STRUCTURE. DIRECT SPLASH PADS AS REQUIRED TO DIVERT WATER AWAY FROM BUILDING.
7. CONFIRM w/ TOWN AND LOCAL AUTHORITIES TO INVESTIGATE REQUIREMENTS FOR FIRE PROTECTION AND TO IDENTIFY ANY IMPACT OF THE TRAILER DESIGN.
8. CONFIRM w/ TOWN TO INVESTIGATE AND CO-ORDINATE DESIGN OF EXISTING MECHANICAL, ELECTRICAL, AND GAS SERVICE CONNECTIONS. VERIFY ELECTRICAL CAPACITY AND WORK REQUIRED TO INCREASE CAPACITY TO SUIT LOADS OF TRANSPORTABLE CELLS.

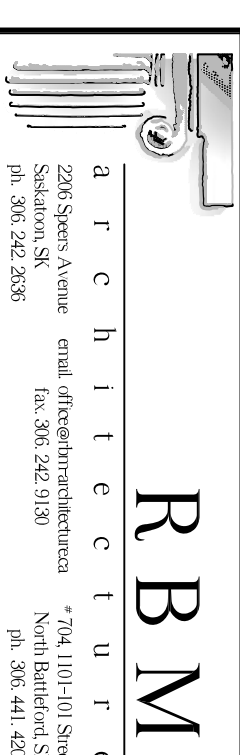
4. 2011/11/14	ISSUE FOR CONSTRUCTION
3. 2011/08/23	TENDER SUBMISSION
2. 2011/06/17	99% REVIEW SUBMISSION
1. 2011/04/04	80% REVIEW SUBMISSION
0. 2011/02/02	50% REVIEW SUBMISSION

SCALE:



Government  
of Canada

CLIENT:



PROJECT:

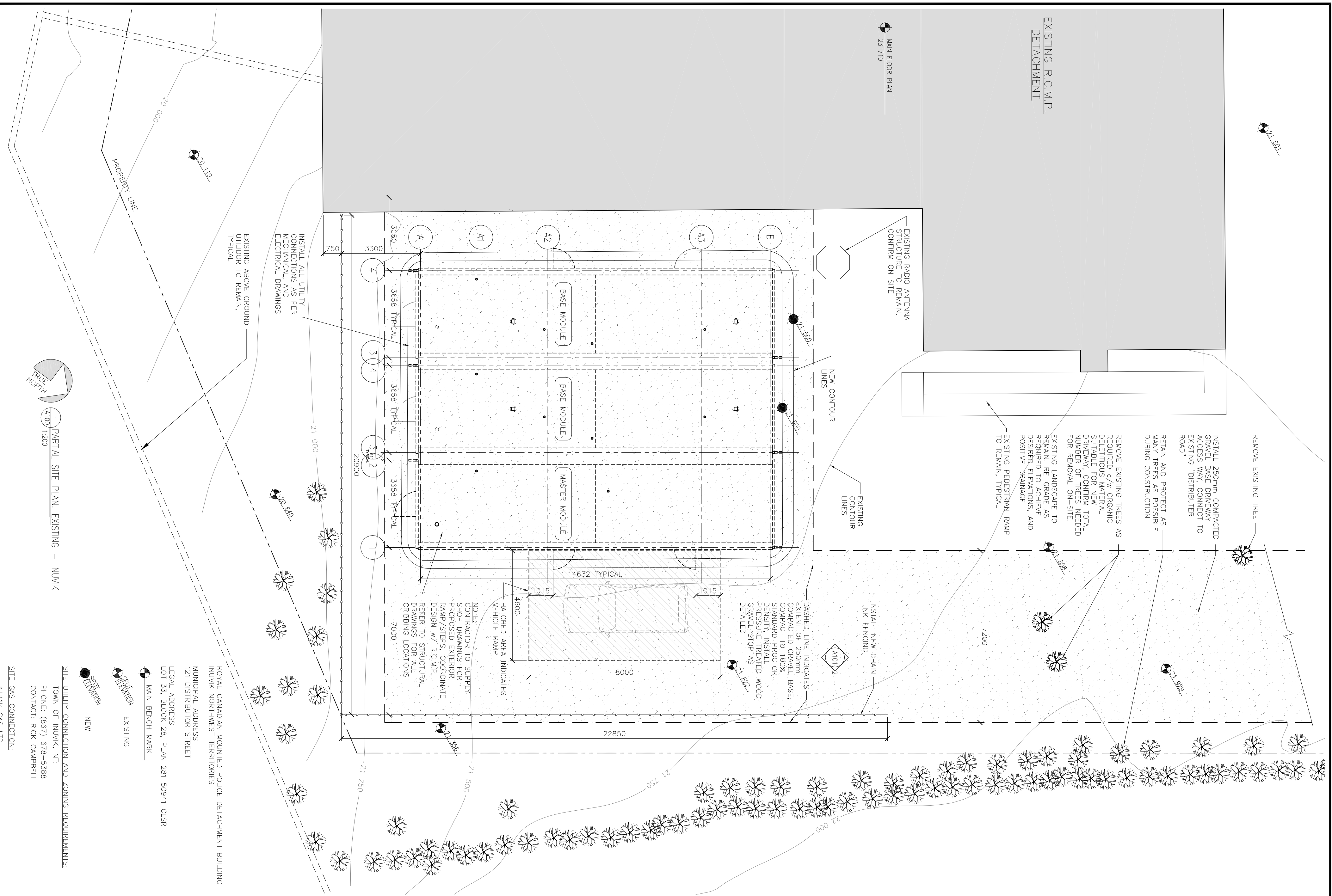
POLICE  
TRANSPORTABLE  
HOLDING CELLS

DRAWING:

COVER SHEET, AND  
DRAWING INDEX

PROJECT No.: 510-10	SHEET No.:	PLOT No. 2
DATE: 2011/08/23		
DRAWN BY: CG		
SCALE: AS NOTED		A000



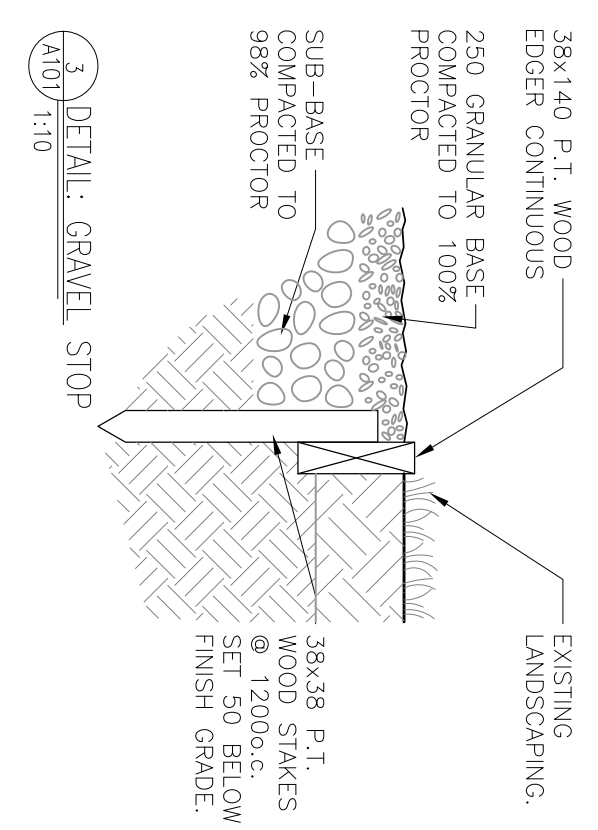
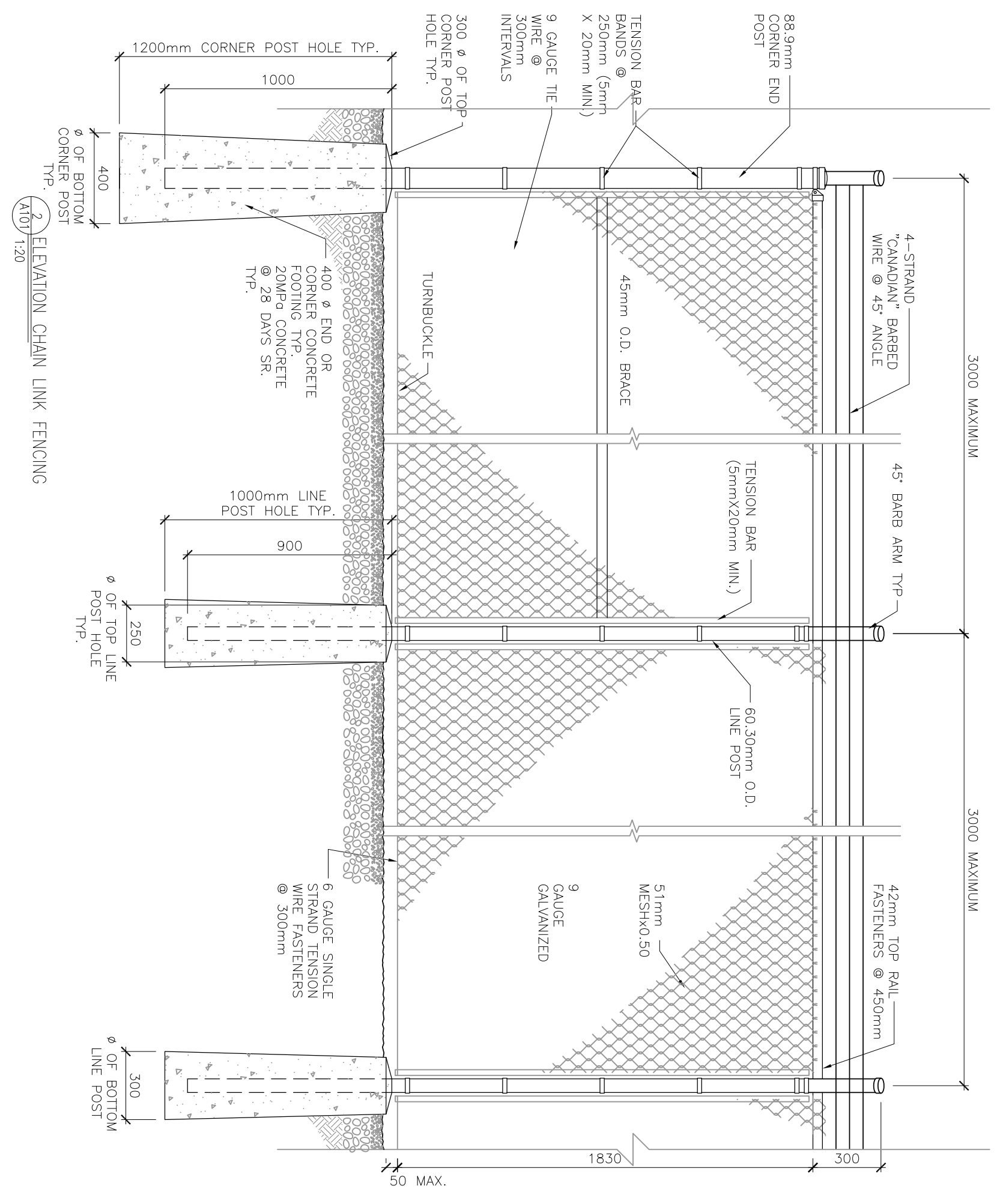


ROYAL CANADIAN MOUNTED POLICE DETACHMENT BUILDING  
 MUNICIPAL ADDRESS  
 INUVIK NORTHWEST TERRITORIES  
 121 DISTRIBUTOR STREET  
 LEGAL ADDRESS  
 LOT 33, BLOCK 28, PLAN 281 50941 CLSR  
 MAIN BENCH MARK

EXISTING  
 NEW

SITE UTILITY CONNECTION AND ZONING REQUIREMENTS:  
 TOWN OF INUVIK, NT:  
 PHONE: (867) 678-5388  
 CONTACT: RICK CAMPBELL

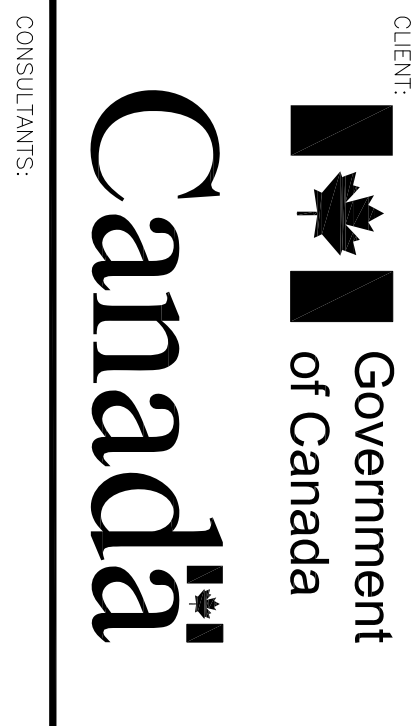
SITE GAS CONNECTION:  
 INUVIK GAS LTD.  
 PHONE: (867) 777-3339  
 CONTACT: DAVID COX



**GENERAL NOTES:**

**SITE DEVELOPMENT:**

- SITE PREPARATION AND UTILITY CONNECTIONS SHALL BE INCLUDED IN CONTRACT.
- SITE SHALL BE STRIPPED OF TOPSOIL FROM SITE AND RE-GRADED W/ GRANULAR FILL AS REQUIRED COMPLETE WITH PROPOSED EXTERIOR FENCING AND TREE REMOVAL DESIGN. TREES NOTED ON PLANS TO INCLUDE REMOVAL. CONFIRM EXTENT OF TREES ON SITE.
- CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT A PERMEABLE GRANULAR STOP TO REMAIN DURING OPERATION.
- INSTALLATION OF ANY STRUCTURAL PARS/PILES/FOOTINGS AS REQUIRED IF SITE INDICATES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
- CONSTRUCTION AND INSTALLATION OF EXTERIOR STEPS, RAMPS, AND STAIRS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER. DESIGN BUILD APPLICATION TO SUIT SITE. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR EXTERIOR RAMP, AND/OR STEP CONSTRUCTION, COORDINATE DESIGN REQUIREMENTS WITH R.C.M.P.
- CONFIRM W/ TOWN AND LOCAL AUTHORITIES TO INVESTIGATE REQUIREMENTS FOR FIRE PROTECTION AND TO IDENTIFY ANY IMPACT OF THE TRAILER DESIGN.
- CONFIRM W/ TOWN TO INVESTIGATE AND CO-ORDINATE DESIGN OF EXISTING MECHANICAL, ELECTRICAL, AND GAS SERVICE CONNECTIONS. VERIFY ELECTRICAL CAPACITY AND WORK REQUIRED TO INCREASE CAPACITY TO SUIT LOADS OF TRANSPORTABLE CELLS.



CONSULTANTS:

**R B M**  
 A R C H I T E C T U R E  
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 Inuvik, Northwest Territories  
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 Tel: 867 662 9180  
 Fax: 867 662 9180  
 Email: info@rbmarchitect.com  
 Web: www.rbmarchitect.com

PROJECT:  
**POLICE TRANSPORTABLE HOLDING CELLS**

DRAWING:  
**PARTIAL SITE PLAN & DETAILS: PROPOSED INUVIK NORTHWEST TERRITORIES**

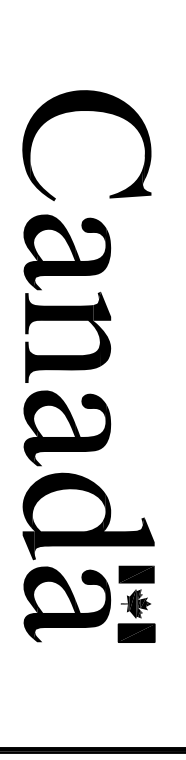
PROJECT No.: 510-10	SHEET No.: PLOT No.: 1
DATE: 2011/08/23	DRAWN BY: GG
<b>A101</b>	
SCALE: AS NOTED	



LEGEND	
[Symbol]	DIMENSION
[Symbol]	1 HR FIRE RATED WALL
[Symbol]	ACOUSTIC INSULATED WALL
[Symbol]	GRID LINE
[Symbol]	GRID IDENTIFICATION
[Symbol]	DETAIL IDENTIFICATION TAG
[Symbol]	BUILDING SECTION IDENTIFICATION TAG
[Symbol]	INTERIOR ELEVATION IDENTIFICATION TAG
[Symbol]	DOOR TYPE IDENTIFICATION TAG AS SCHEDULED
[Symbol]	ROOM IDENTIFICATION TAG AS SCHEDULED
[Symbol]	WALL TYPE IDENTIFICATION TAG AS SCHEDULED
[Symbol]	CEILING MOUNTED FLUORESCENT LUMINAIRE AS PER ELECTRICAL
[Symbol]	CEILING/WALL CORNER MOUNTED FLUORESCENT LUMINAIRE PER ELECT AS PER ELECTRICAL
[Symbol]	WALL MOUNTED INCANDESCENT/ CFL FIXTURE AS PER ELECTRICAL
[Symbol]	CEILING MOUNTED INCANDESCENT/ CFL FIXTURE AS PER ELECTRICAL
[Symbol]	EXHAUST FAN WITHIN SECURE PROTECTIVE CASE
[Symbol]	SMOKE DETECTOR WITHIN SECURE PROTECTIVE CASE
[Symbol]	C.C.V.E. SECURITY CAMERA AS PER ELECTRICAL
[Symbol]	CHIMNEY
[Symbol]	FIRE EXTINGUISHER AS PER MECH
[Symbol]	ROTI ALARM BUTTON AS PER ELEC
[Symbol]	SMOKE DETECTOR AS PER MECH
[Symbol]	SPRINKLER HEAD AS PER MECH
[Symbol]	VENT (PLUMBING STACK/STANDPIP)

NO.	DATE	DESCRIPTION
4	2011/11/14	ISSUE FOR CONSTRUCTION
3	2011/08/23	TENDER SUBMISSION
2	2011/06/17	92% REVIEW SUBMISSION
1	2011/04/04	80% REVIEW SUBMISSION
0	2011/02/02	50% REVIEW SUBMISSION

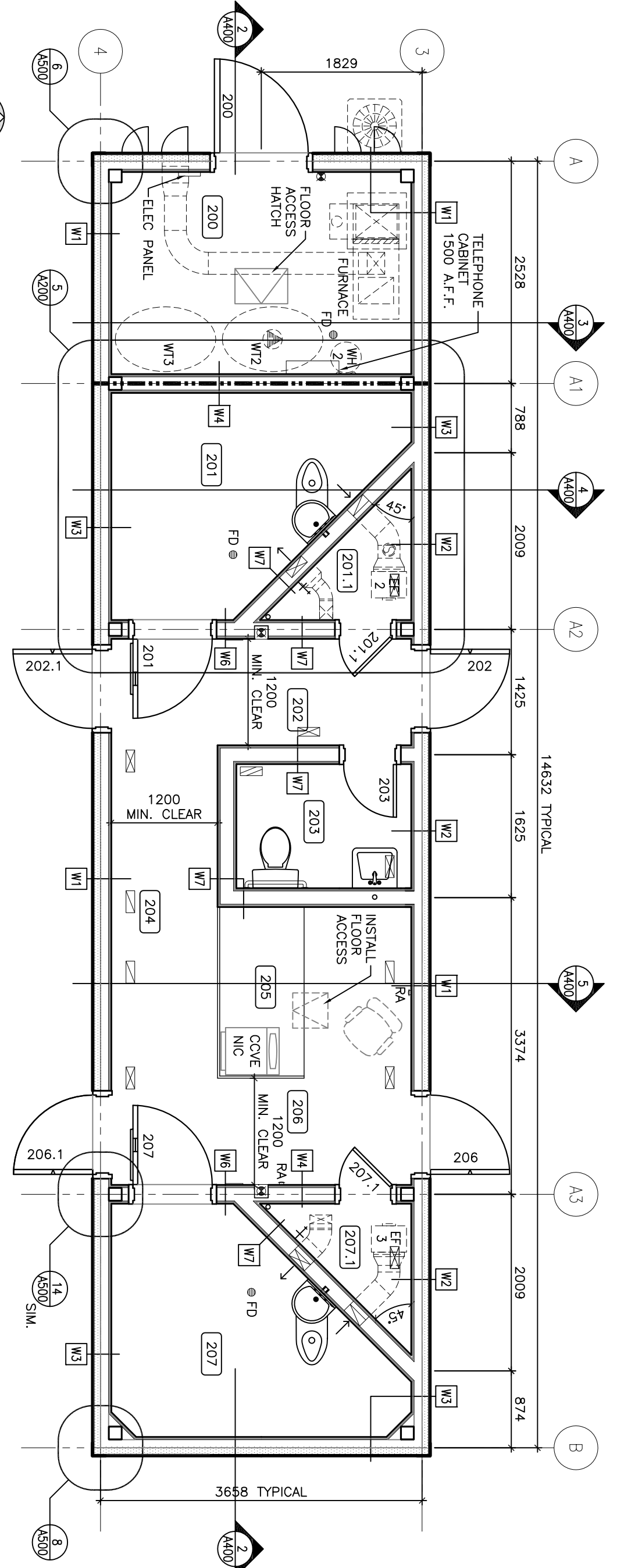
CLIENT: Government of Canada  
 CONSULTANTS: RBM  
 PROJECT: POLICE TRANSPORTABLE HOLDING CELLS



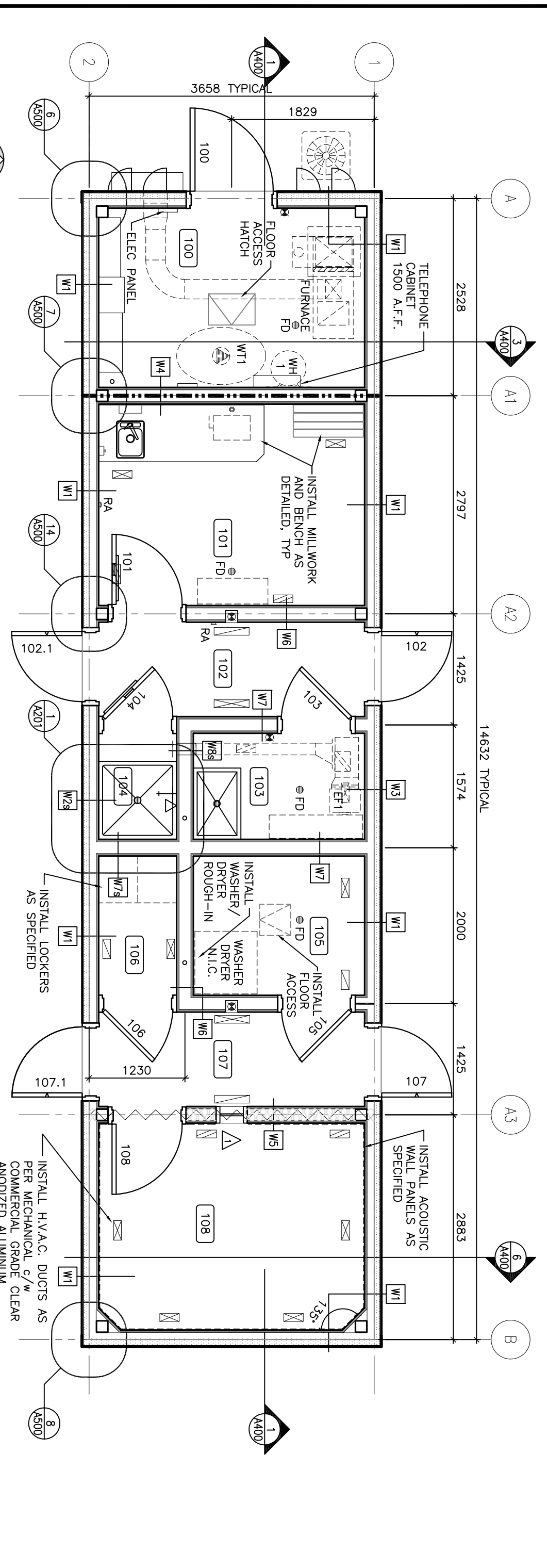
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 DRAWING: FLOOR PLANS, REFLECTED CEILING PLANS, AND PLAN DETAILS  
 SHEET No.: A200  
 PLOT No.: 1

PROJECT: POLICE TRANSPORTABLE HOLDING CELLS  
 DRAWING: FLOOR PLANS, REFLECTED CEILING PLANS, AND PLAN DETAILS

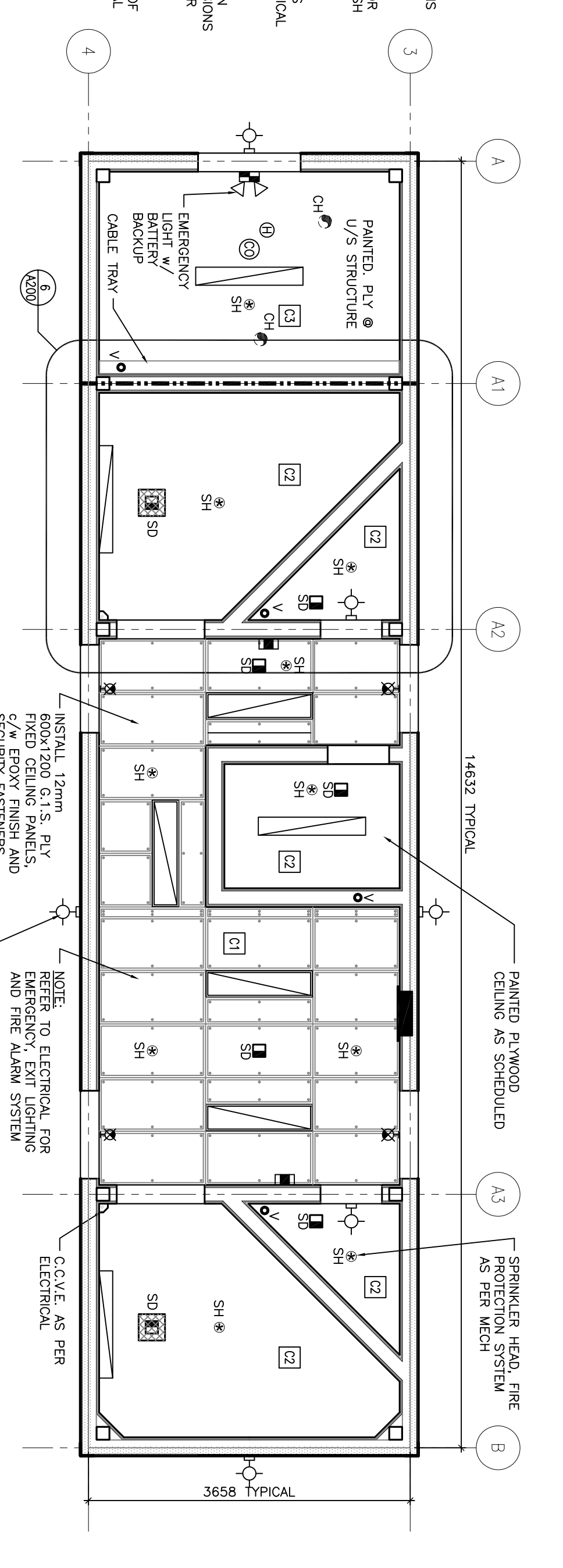
PROJECT No.: 510-10  
 DATE: 2011/08/23  
 DRAWN BY: CG  
 SCALE: AS NOTED



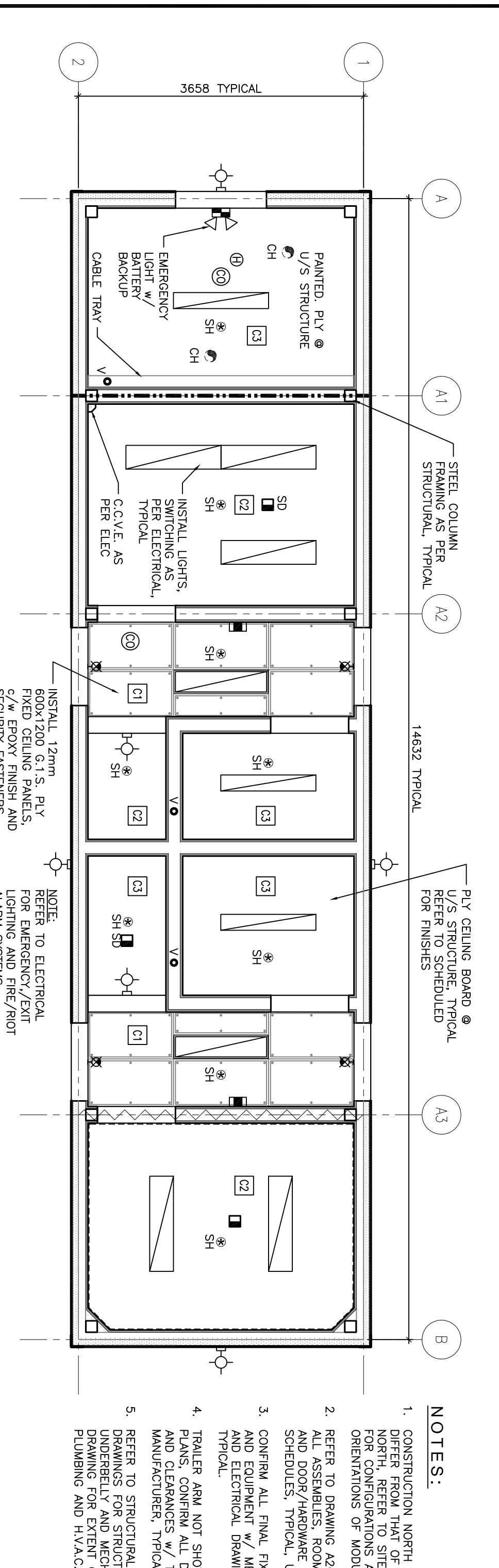
FLOOR PLAN- MASTER AND BASE MODULE - LINKED TOGETHER



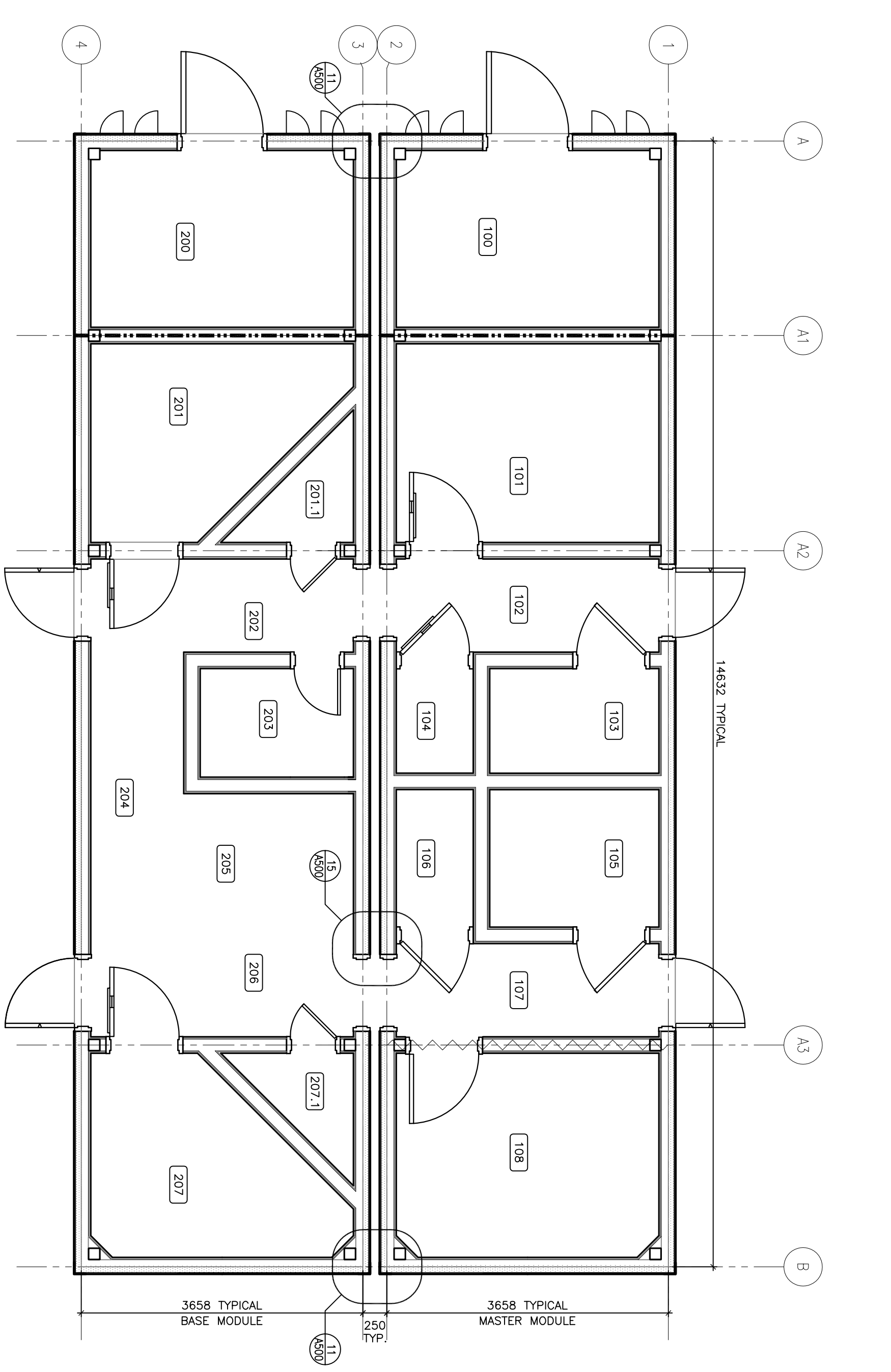
FLOOR PLAN- MASTER MODULE



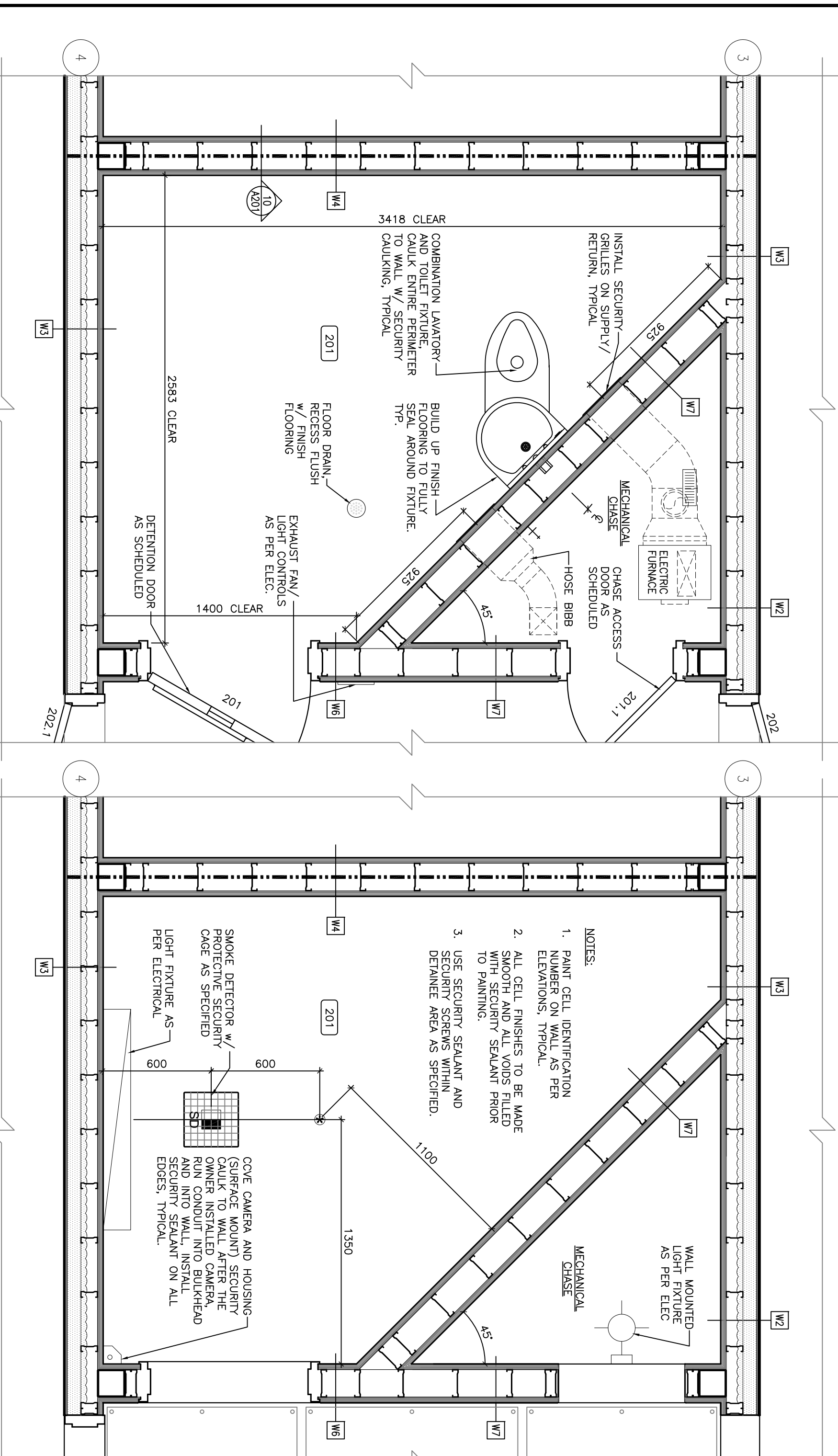
REFLECTED CEILING PLAN- BASE MODULE



REFLECTED CEILING PLAN- MASTER MODULE



FLOOR PLAN- MASTER AND BASE MODULE - PARTIAL PLAN



PARTIAL REFLECTED CEILING PLAN

NOTE: CORNER OF WALLS TO E OF DETENTION TRANSFER INCLUDE WORKFLOW SECURITY WITHDRAWAL/REMOVAL AND ENHANCED SECURITY TYPE GRILLE

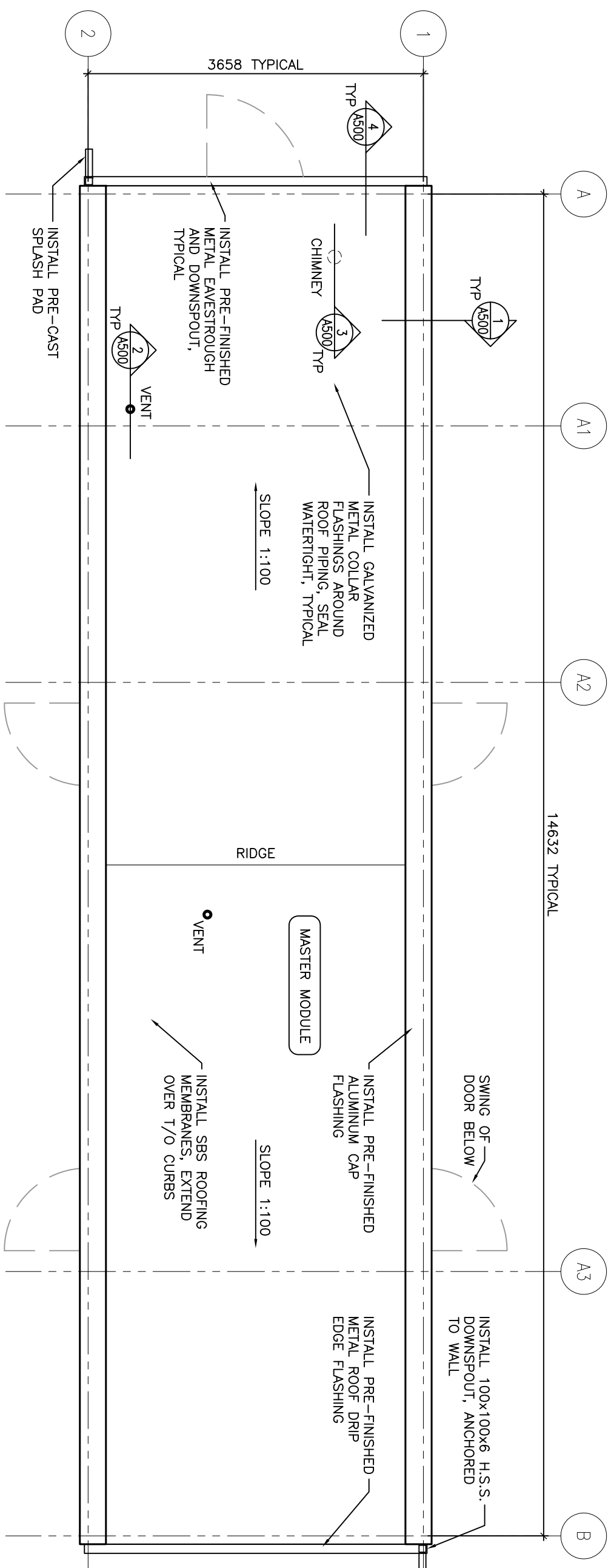
NOTE: CORNER OF WALLS TO E OF DETENTION TRANSFER INCLUDE WORKFLOW SECURITY WITHDRAWAL/REMOVAL AND ENHANCED SECURITY TYPE GRILLE

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1 ROOF PLAN: SINGLE MASTER MODULE

**GENERAL ROOFING NOTES:**

1. ALL ROOFING WORK TO (C.R.C.A) STANDARDS, TYPICAL.
2. READ ROOFING DETAILS IN CONJUNCTION WITH ROOF PLAN AND ASSEMBLIES AS WELL AS SPECIFICATIONS, TYPICAL.
3. SLOPE AND DIRECTION INDICATED ON PLANS, INSTALL BRACKETS/CROSS BRACES TO MAINTAIN SLOPE.
4. REFER TO SCHEDULES AND SPECIFICATIONS FOR PRE-FINISHED METAL AND ROOFING MEMBRANE COLOURS, FINISHES, TYPICAL.
5. ALL ROOFING/PARAPET WOOD/LUMBER PRODUCTS TO BE PRESSURE TREATED.
6. ALL ROOF VENTS SHALL BE FREEZE PROTECTED PLUMBING VENTS AS PER "VENT-LINE" MODEL, ARCTIC VENT™, CO-ORDINATE INSTALLATION w/ MECHANICAL AND ELECTRICAL DRAWINGS.
7. ALL CURBS, VENTS ARE REQUIRED TO MAINTAIN MINIMUM 200mm CLEARANCES ABOVE ROOF FINISHED ROOF SURFACES, COORDINATE w/ MECHANICAL AND ELECTRICAL DRAWINGS.
8. REFER TO SPECIFICATION FOR TYPICAL FASTENING/ADHERING OF ROOFING MEMBRANE ABOVE ROOF FINISHED ROOF SURFACES, COORDINATE w/ MECHANICAL AND ELECTRICAL DRAWINGS.
9. RIGID INSULATION ROOFING MEMBRANES, TYPICAL.
10. APPLICABLE TO BE COMPATIBLE WITH ROOFING TO ACHIEVE CONTINUOUS WATERIGHT SEAL THROUGHOUT, TYPICAL.

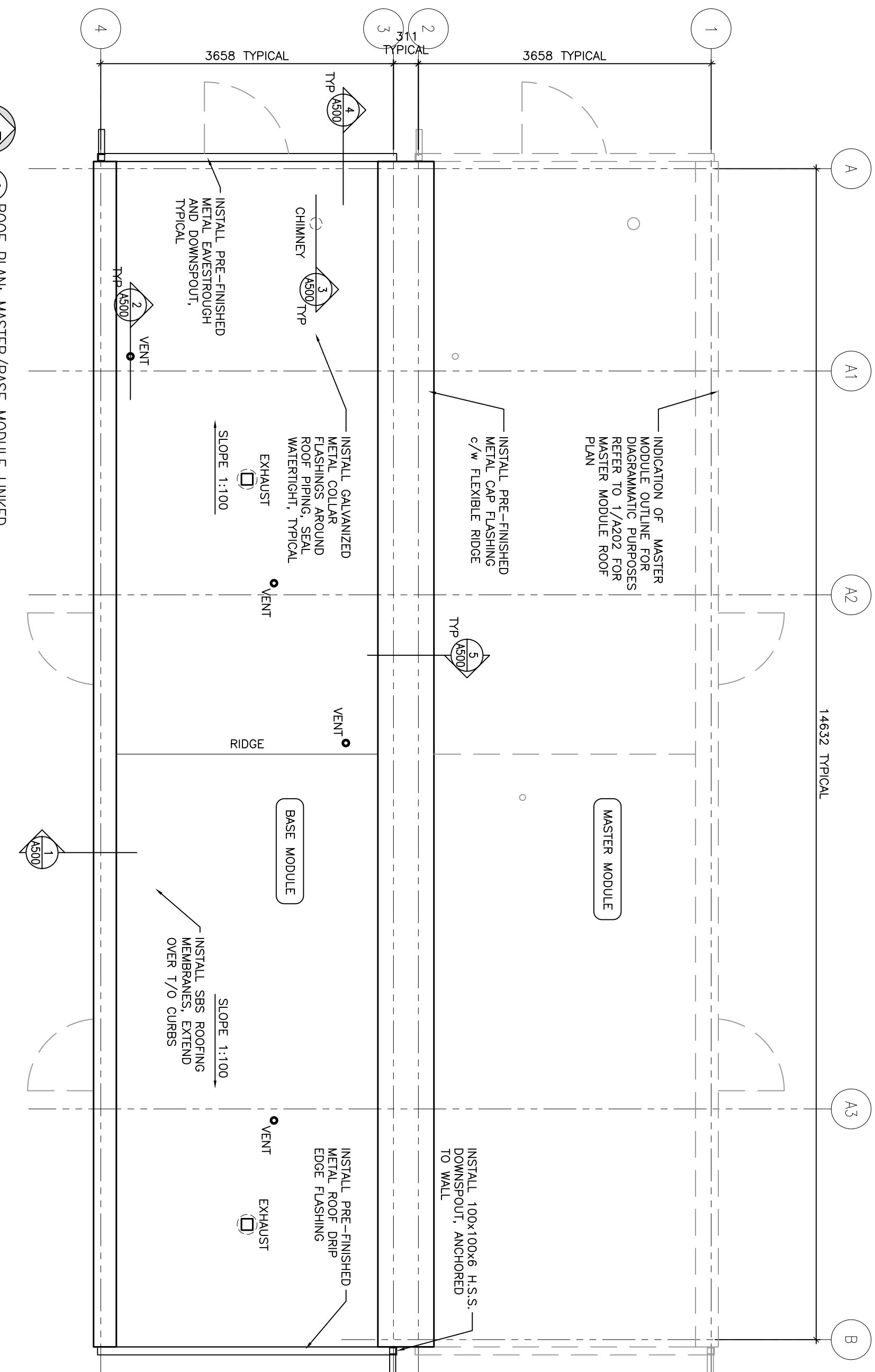
INSTALL ADDITIONAL PRE-FINISHED METAL FLEXIBLE CAP FLASHING OVER ROOF CURBS WHERE THE MASTER AND BASE UNITS ARE LINKED TOGETHER.

**EXTERIOR MATERIALS AND FINISH NOTES**

ITEMS	MATERIAL
CLADDING (WALLS)	PRE-FINISHED ALUMINIUM COMPOSITE PANELS
DOORS	EXTERIOR GRADE LATEX PAINT, ONE COAT PRIMER, TWO COATS PAINT
DOOR FRAMES	EXTERIOR GRADE LATEX PAINT, ONE COAT PRIMER, TWO COATS PAINT
EASTROUGH AND R.W.L.	PRE-FINISHED ALUMINIUM
ROOFING	PRE-FINISHED METAL CAP FLASHING SBS - STYRENE BUTADIENE STYRENE

**EXTERIOR FINISHES**

FR1	ICI PAINTS #509R 22/052 "SMOKEY GLASS"
FR2	ICI PAINTS #309B 32/139 "TLORENTINE BLUE"
FR3	ICI PAINTS #309B 54/072 GLASS MEMBRANE



2 ROOF PLAN: MASTER/BASE MODULE LINKED

**ROOF ABBREVIATIONS:**

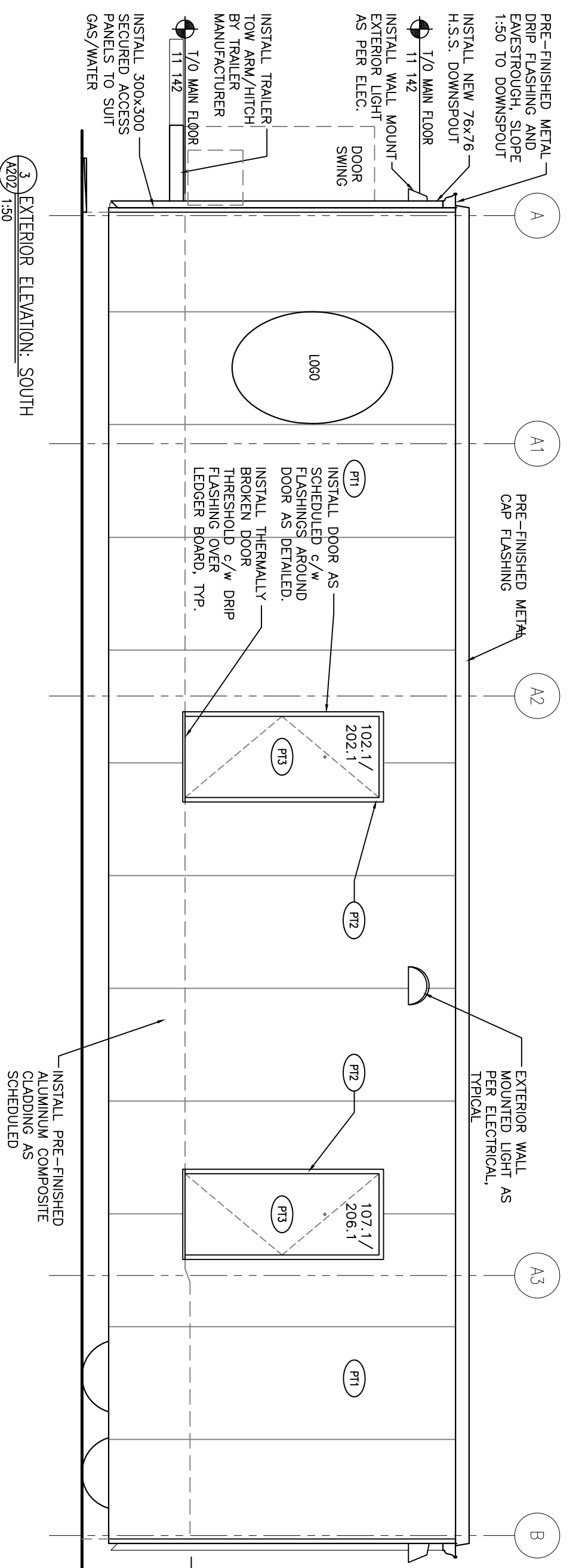
CH	CHIMNEY
CW	CORNER WELD
EX	EXHAUST
GAS	NATURAL GAS LINE
WV	WATER VENT
V	VENT - FREEZE FREE

**ROOF AREAS:**

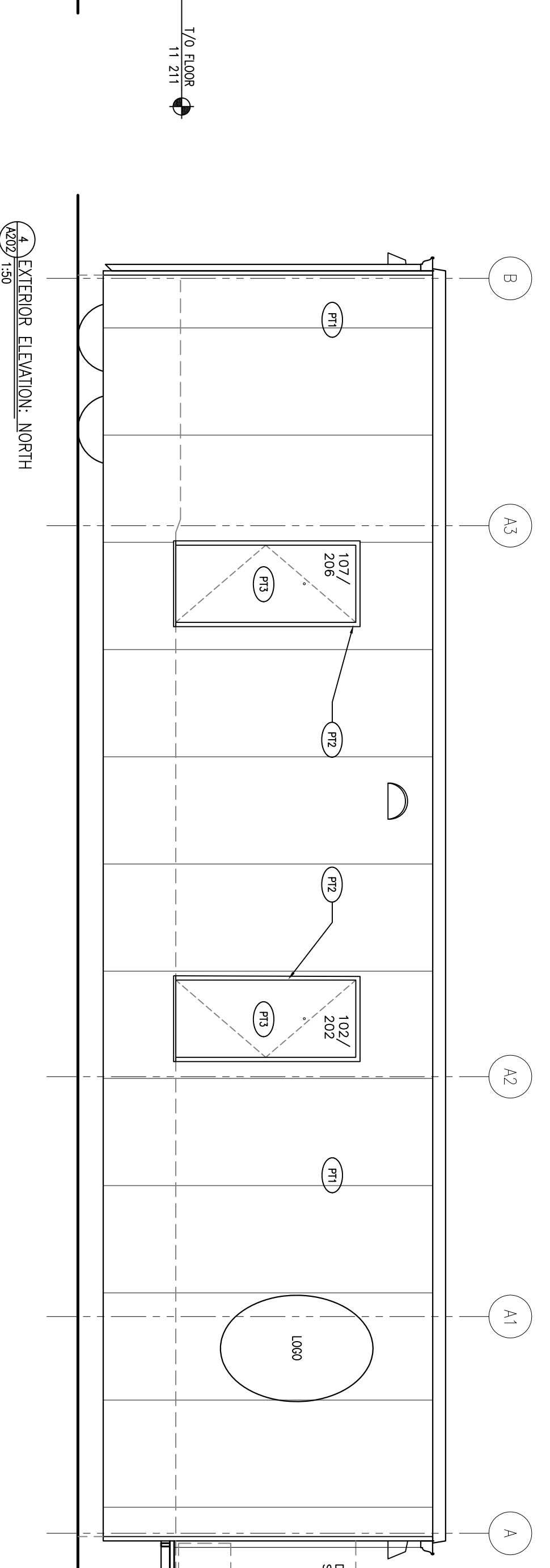
SINGLE UNIT: AREA = 22 sq.m.

**ROOF ELEVATIONS:**

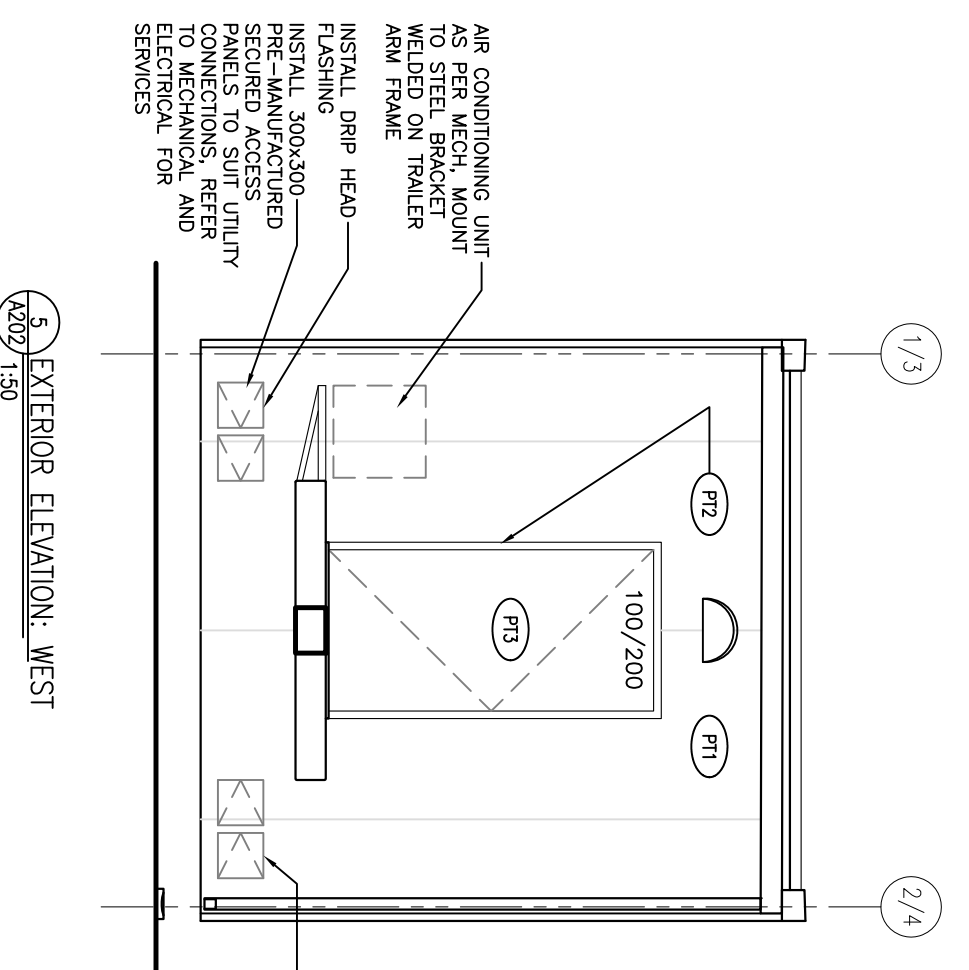
ELEVATION = 14.290



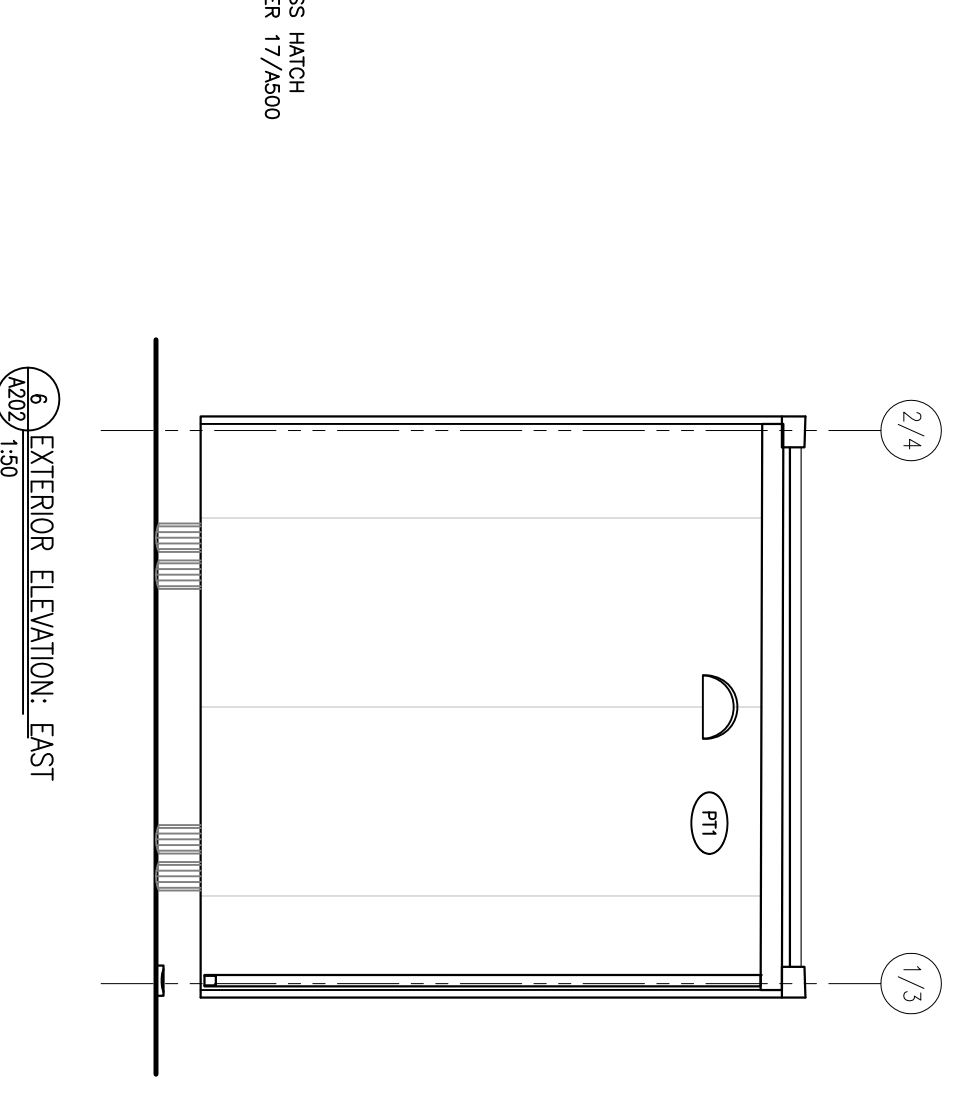
3 EXTERIOR ELEVATION: SOUTH



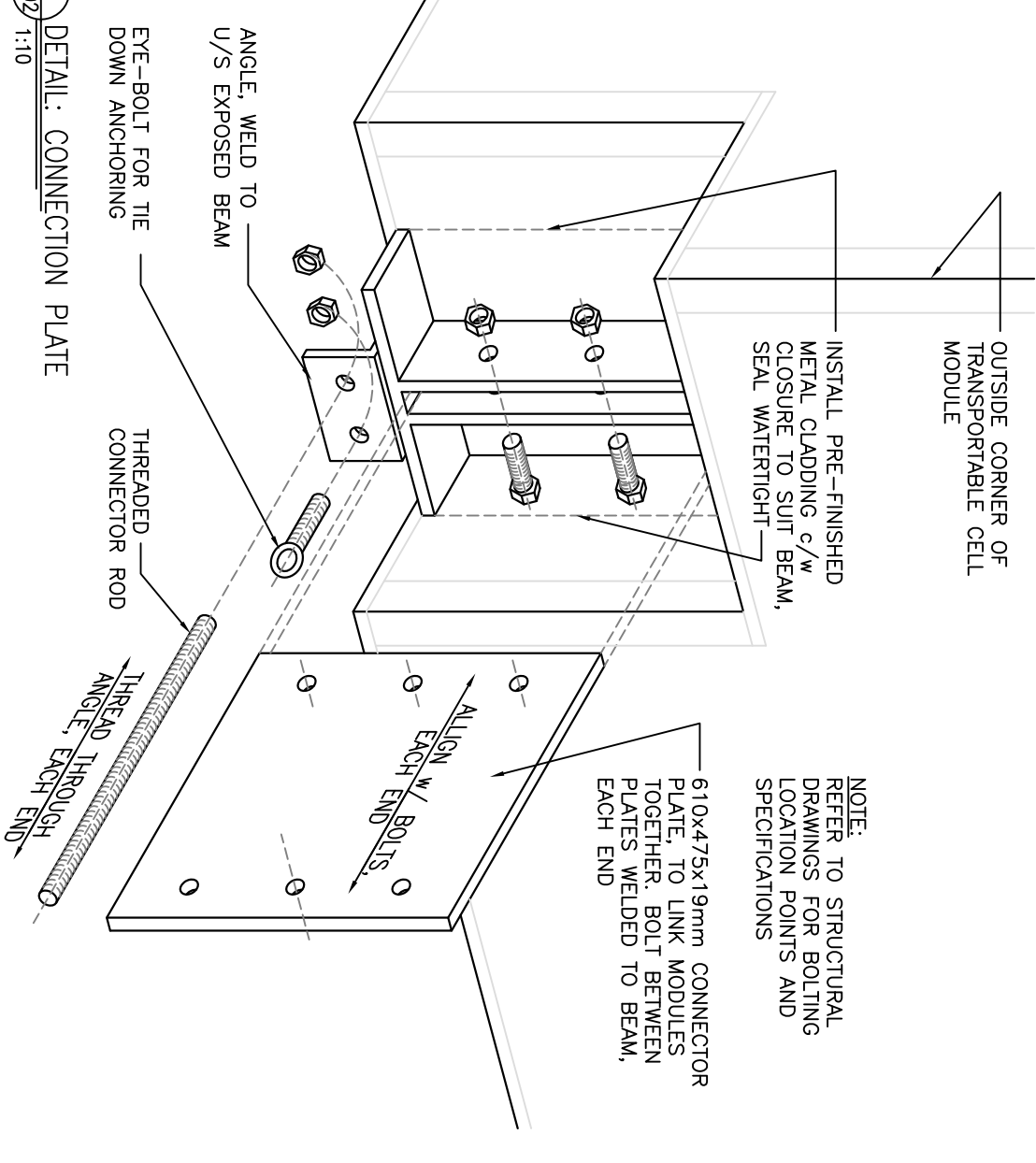
4 EXTERIOR ELEVATION: NORTH



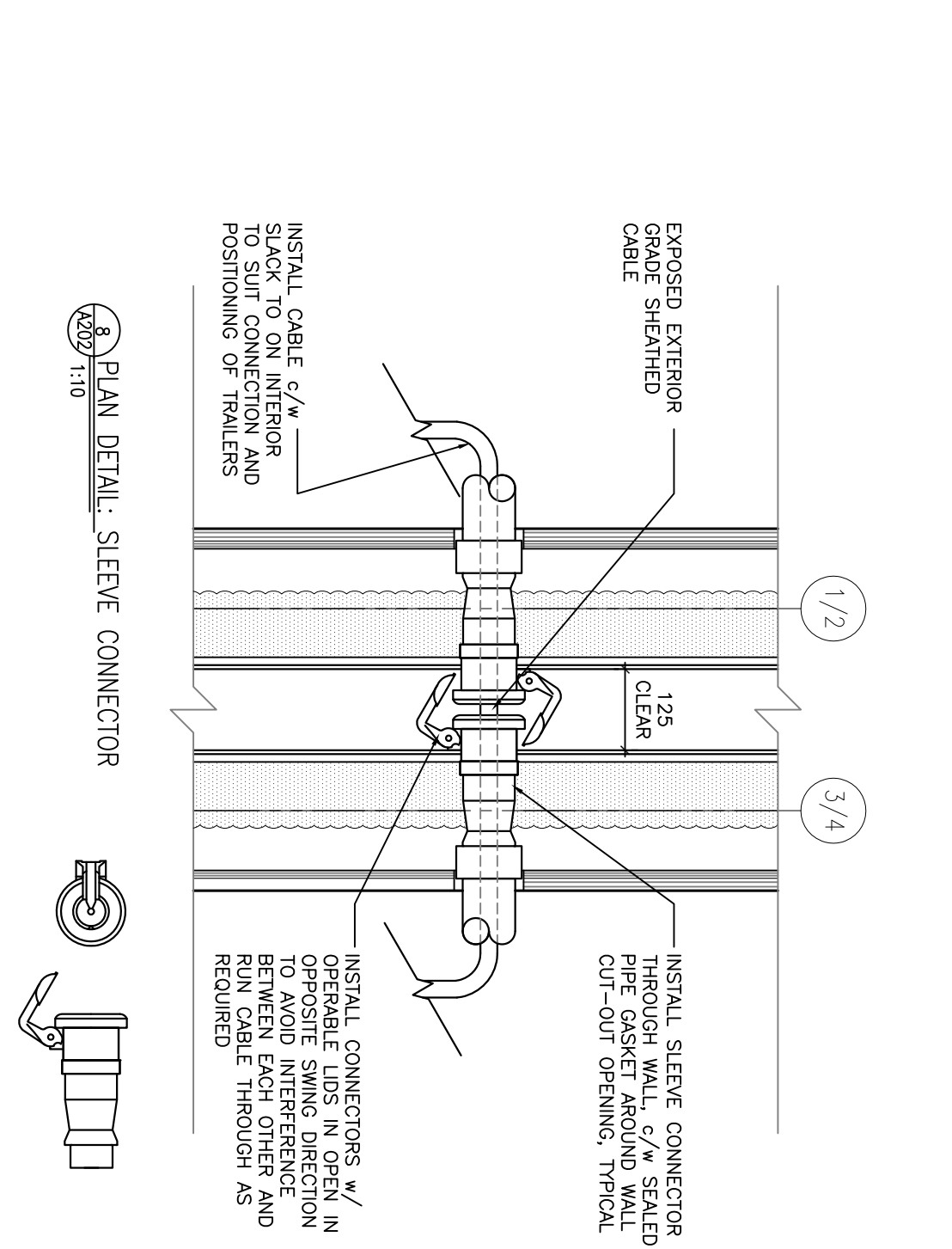
5 EXTERIOR ELEVATION: WEST



6 EXTERIOR ELEVATION: EAST



7 DETAIL: CONNECTION PLATE



8 PLAN DETAIL: SLEEVE CONNECTOR

**R B M**

Architectural Firm Information:

2263 Spens Avenue, Suite 200, Toronto, ON M5S 2B5  
 Tel: 416-593-3130, Fax: 416-593-3131, Email: info@rbm.ca

**CLIENT:** Government of Canada

**CONSULTANTS:** Canada

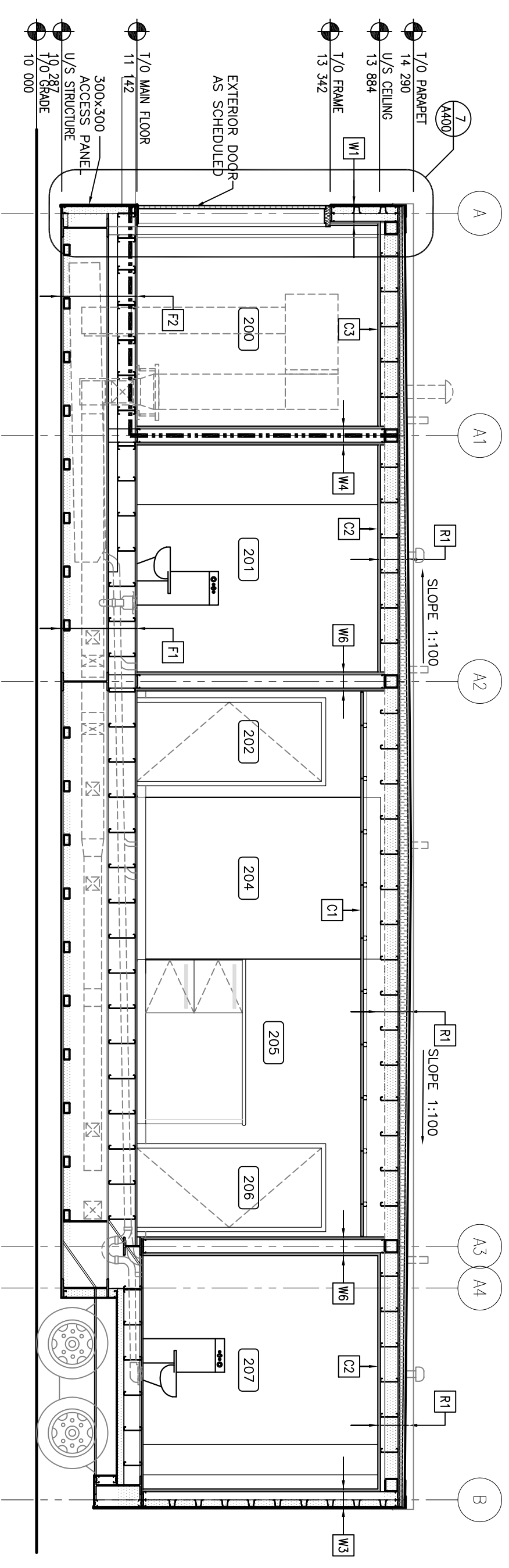
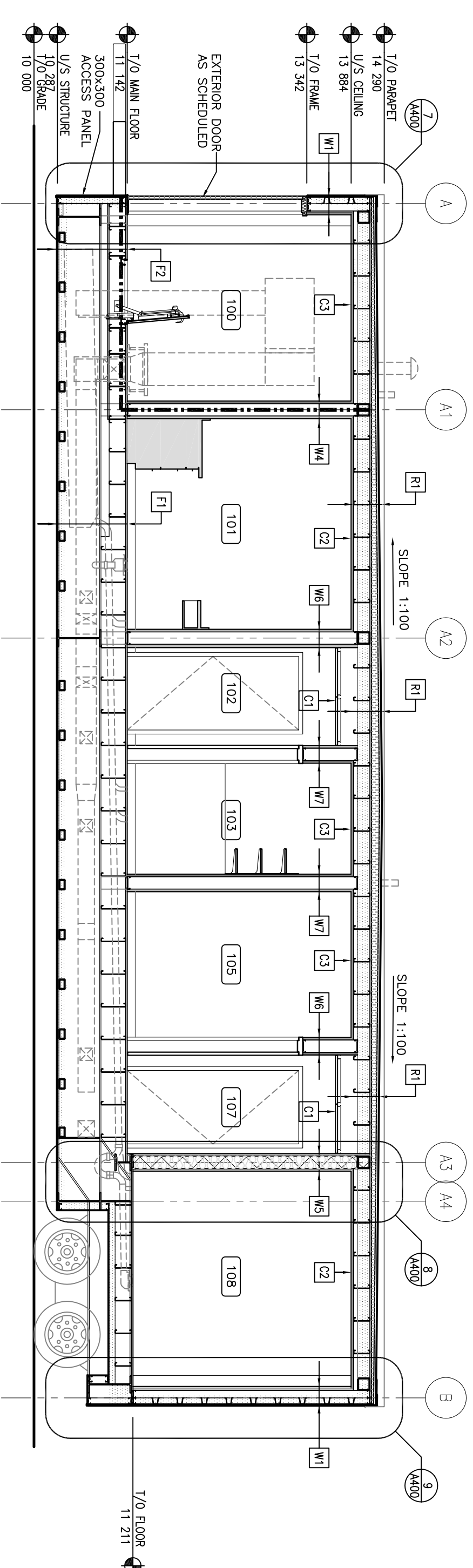
**PROJECT:** POLICE TRANSPORTABLE HOLDING CELLS

**DRAWING:** ROOF PLANS, EXTERIOR ELEVATIONS AND SCHEDULES

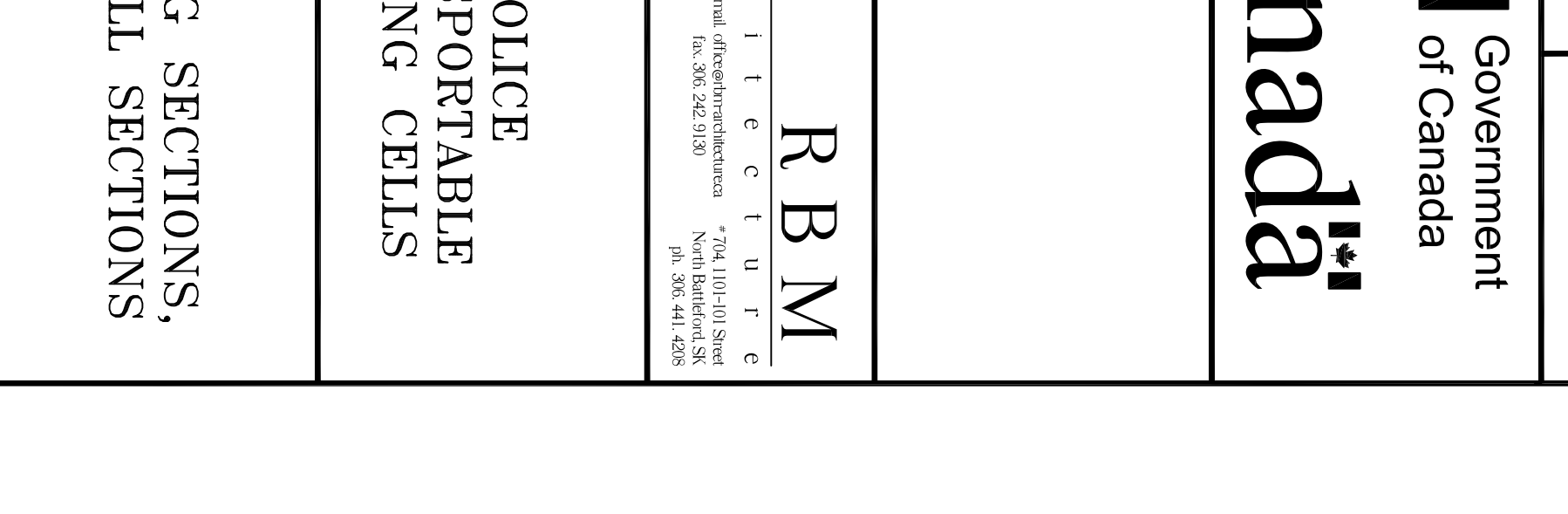
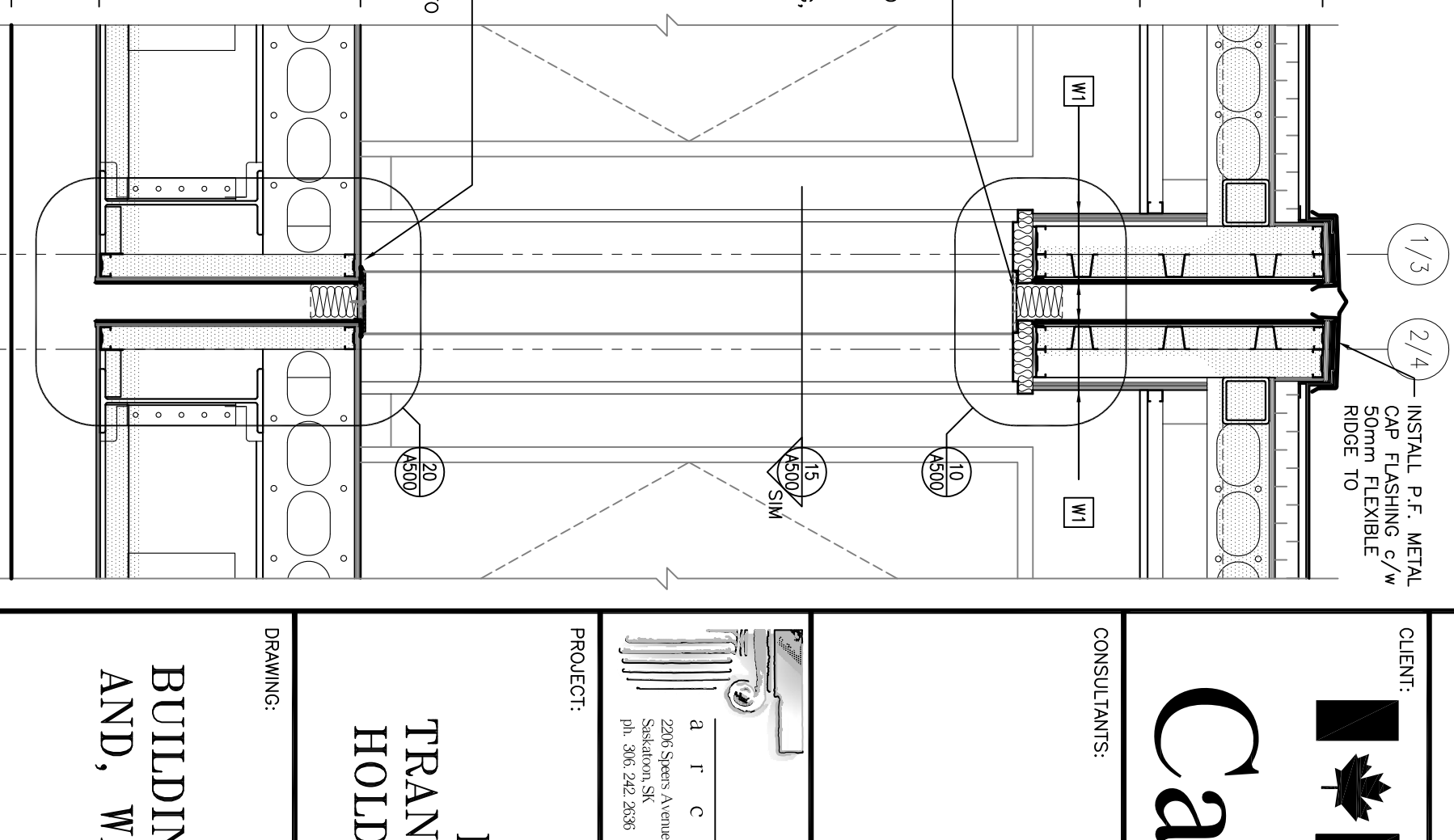
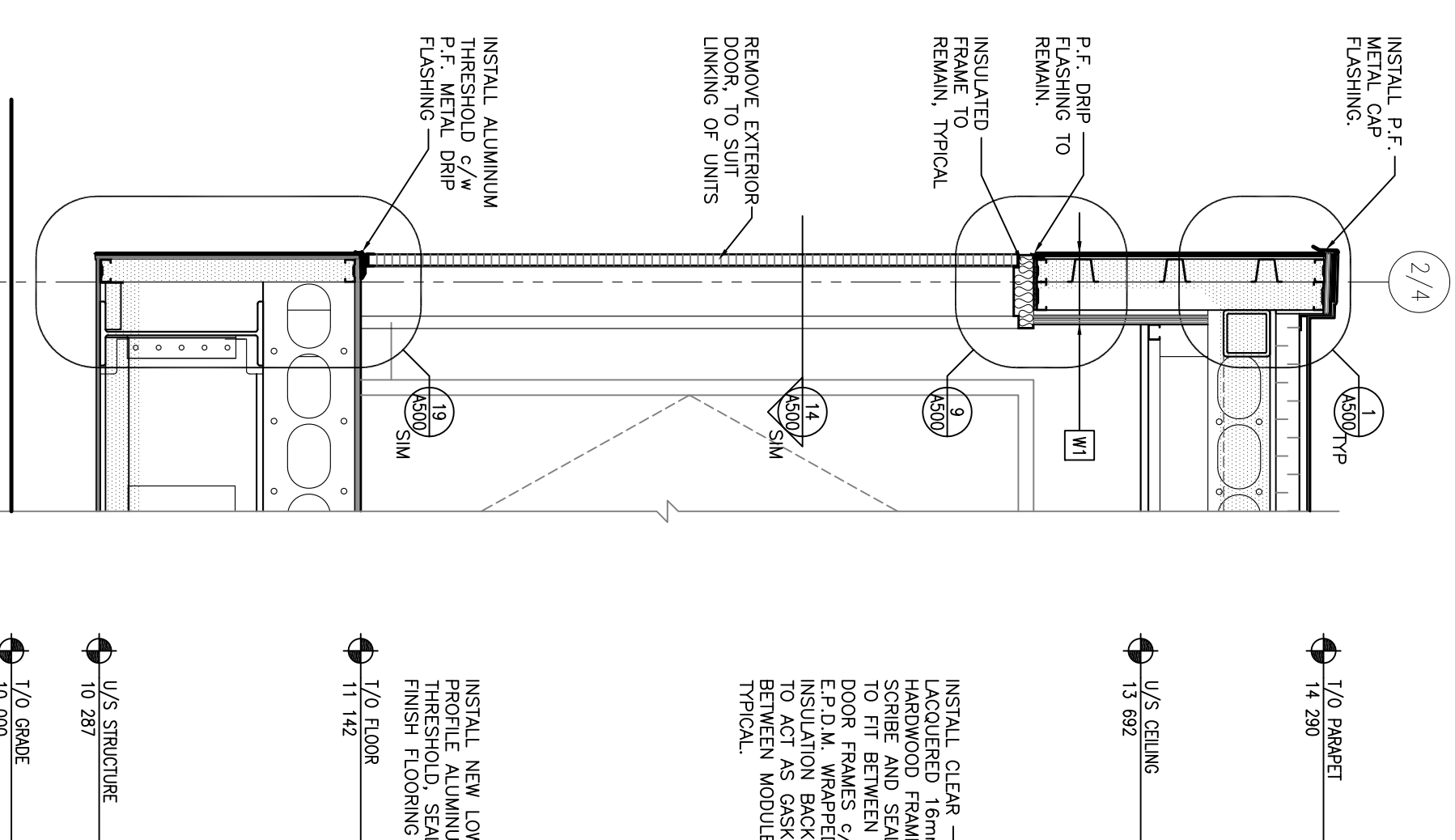
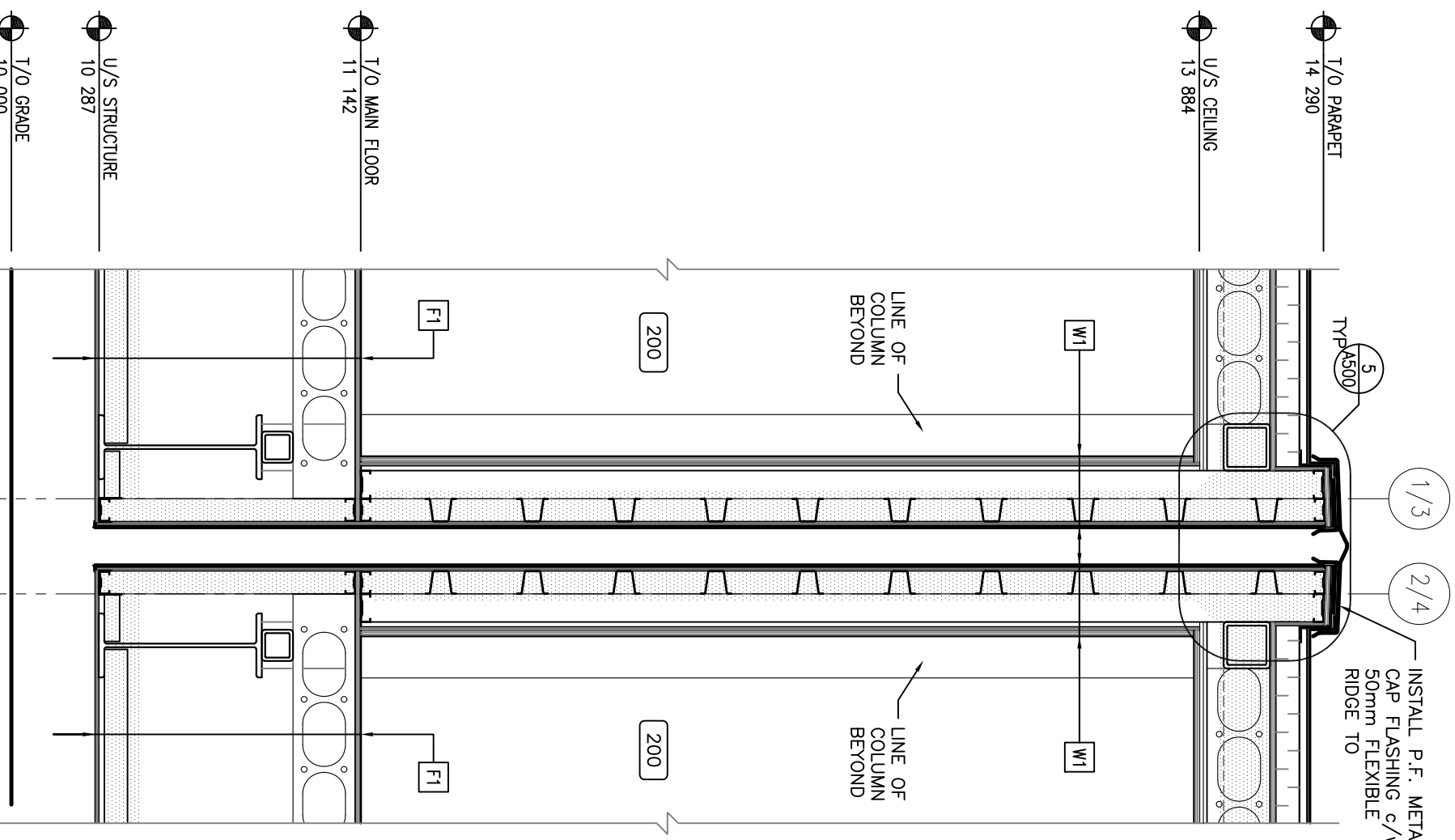
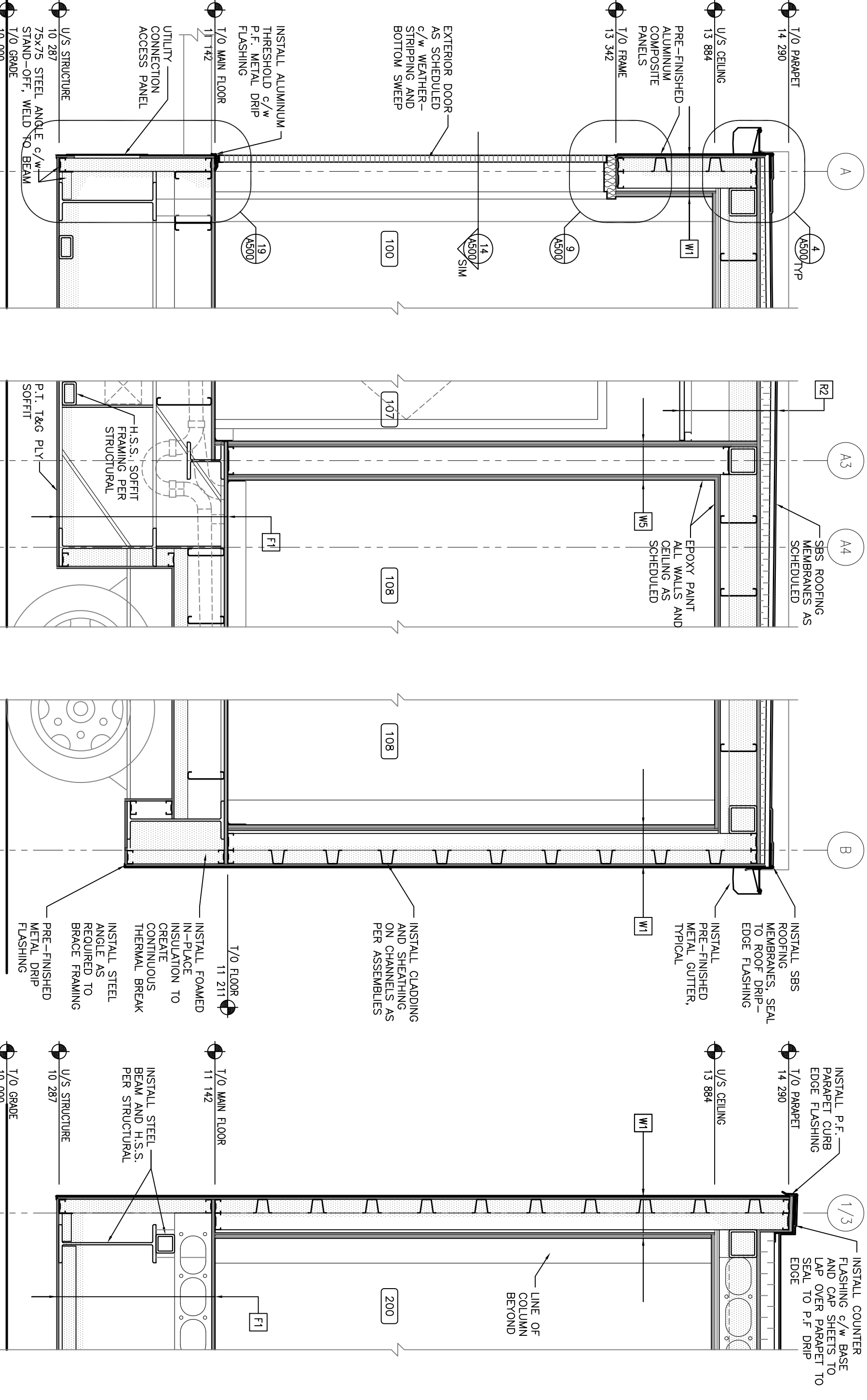
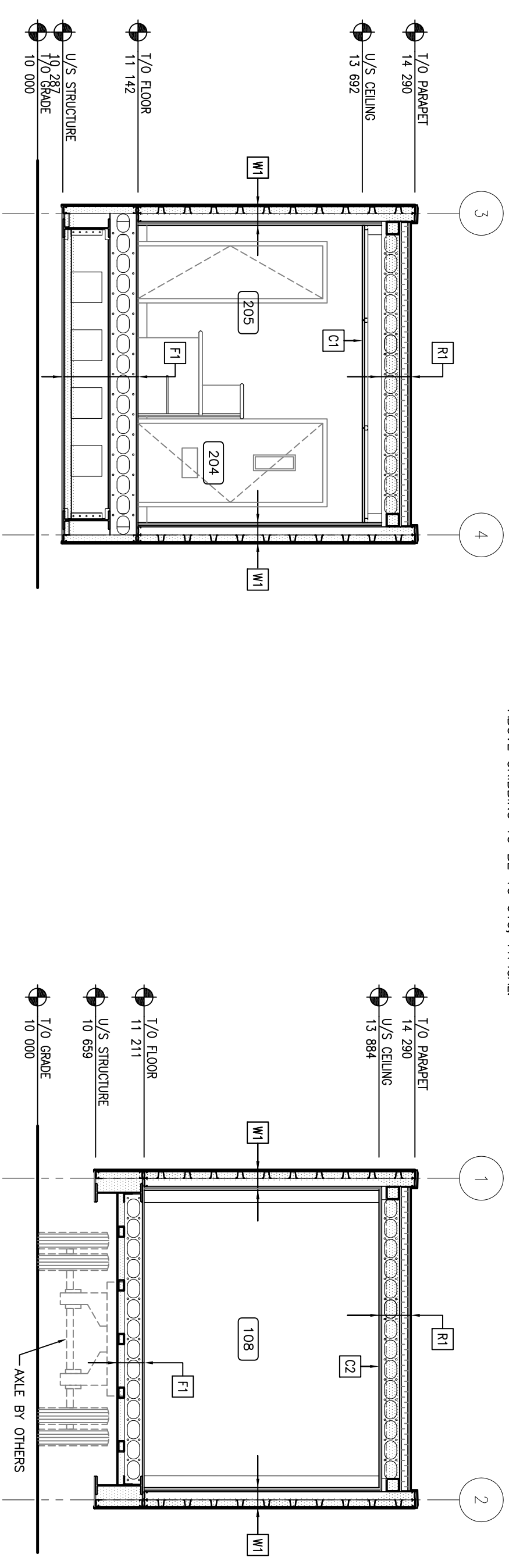
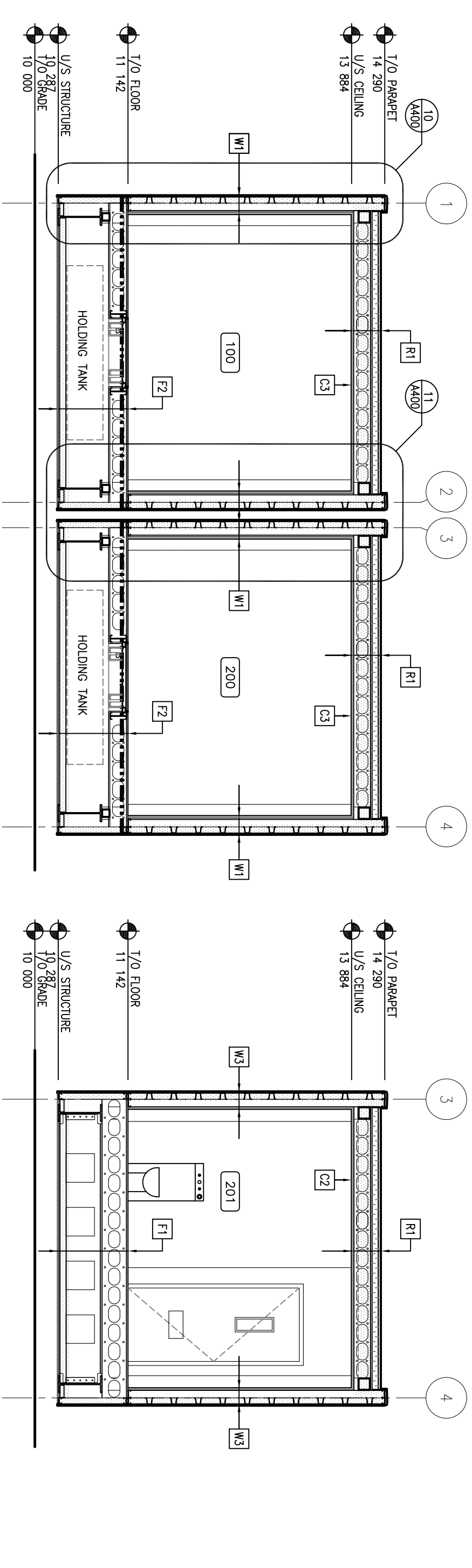
PROJECT No.: 510-10 | SHEET No.: PLOT No.: 1  
 DATE: 2011/09/23 | DRAWN BY: CG | SCALE: AS NOTED

**A202**





NOTES:  
 1. ELEVATIONS SHOWN INDICATE U/S OF STRUCTURE  
 2. DURING TRANSPORT TO BE TO 237.  
 3. FINAL DEPLOYMENT ELEVATION OF U/S STRUCTURE  
 ABOVE CHASSIS TO BE TO 610, TYPICAL.



7. WALL SECTION

8. WALL SECTION

9. WALL SECTION

10. WALL SECTION

11. WALL SECTION: LINKED MODULE WALLS

12. WALL SECTION: LINKED MODULES

13. WALL SECTION: LINKED MODULES DOORS

1. BUILDING SECTION: MASTER/BASE MODULE

2. BUILDING SECTION: SINGLE MASTER UNIT

3. BUILDING SECTION: SINGLE BASE UNIT

4. BUILDING SECTION: BASE MODULE

5. BUILDING SECTION: MASTER MODULE

6. BUILDING SECTION: BASE MODULE

7. BUILDING SECTION: SINGLE MASTER UNIT

8. BUILDING SECTION: SINGLE BASE UNIT

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11. BUILDING SECTION: BASE MODULE

12. BUILDING SECTION: SINGLE MASTER UNIT

13. BUILDING SECTION: SINGLE BASE UNIT

14. BUILDING SECTION: BASE MODULE

15. BUILDING SECTION: MASTER MODULE

16. BUILDING SECTION: BASE MODULE

17. BUILDING SECTION: SINGLE MASTER UNIT

18. BUILDING SECTION: SINGLE BASE UNIT

19. BUILDING SECTION: BASE MODULE

20. BUILDING SECTION: MASTER MODULE

21. BUILDING SECTION: BASE MODULE

22. BUILDING SECTION: SINGLE MASTER UNIT

23. BUILDING SECTION: SINGLE BASE UNIT

24. BUILDING SECTION: BASE MODULE

25. BUILDING SECTION: MASTER MODULE

26. BUILDING SECTION: BASE MODULE

27. BUILDING SECTION: SINGLE MASTER UNIT

28. BUILDING SECTION: SINGLE BASE UNIT

29. BUILDING SECTION: BASE MODULE

30. BUILDING SECTION: MASTER MODULE

31. BUILDING SECTION: BASE MODULE

32. BUILDING SECTION: SINGLE MASTER UNIT

33. BUILDING SECTION: SINGLE BASE UNIT

34. BUILDING SECTION: BASE MODULE

35. BUILDING SECTION: MASTER MODULE

36. BUILDING SECTION: BASE MODULE

37. BUILDING SECTION: SINGLE MASTER UNIT

38. BUILDING SECTION: SINGLE BASE UNIT

39. BUILDING SECTION: BASE MODULE

40. BUILDING SECTION: MASTER MODULE

41. BUILDING SECTION: BASE MODULE

42. BUILDING SECTION: SINGLE MASTER UNIT

43. BUILDING SECTION: SINGLE BASE UNIT

44. BUILDING SECTION: BASE MODULE

45. BUILDING SECTION: MASTER MODULE

46. BUILDING SECTION: BASE MODULE

47. BUILDING SECTION: SINGLE MASTER UNIT

48. BUILDING SECTION: SINGLE BASE UNIT

49. BUILDING SECTION: BASE MODULE

50. BUILDING SECTION: MASTER MODULE

51. BUILDING SECTION: BASE MODULE

52. BUILDING SECTION: SINGLE MASTER UNIT

53. BUILDING SECTION: SINGLE BASE UNIT

54. BUILDING SECTION: BASE MODULE

55. BUILDING SECTION: MASTER MODULE

56. BUILDING SECTION: BASE MODULE

57. BUILDING SECTION: SINGLE MASTER UNIT

58. BUILDING SECTION: SINGLE BASE UNIT

59. BUILDING SECTION: BASE MODULE

60. BUILDING SECTION: MASTER MODULE

61. BUILDING SECTION: BASE MODULE

62. BUILDING SECTION: SINGLE MASTER UNIT

63. BUILDING SECTION: SINGLE BASE UNIT

64. BUILDING SECTION: BASE MODULE

65. BUILDING SECTION: MASTER MODULE

66. BUILDING SECTION: BASE MODULE

67. BUILDING SECTION: SINGLE MASTER UNIT

68. BUILDING SECTION: SINGLE BASE UNIT

69. BUILDING SECTION: BASE MODULE

70. BUILDING SECTION: MASTER MODULE

71. BUILDING SECTION: BASE MODULE

72. BUILDING SECTION: SINGLE MASTER UNIT

73. BUILDING SECTION: SINGLE BASE UNIT

74. BUILDING SECTION: BASE MODULE

75. BUILDING SECTION: MASTER MODULE

76. BUILDING SECTION: BASE MODULE

77. BUILDING SECTION: SINGLE MASTER UNIT

78. BUILDING SECTION: SINGLE BASE UNIT

79. BUILDING SECTION: BASE MODULE

80. BUILDING SECTION: MASTER MODULE

81. BUILDING SECTION: BASE MODULE

82. BUILDING SECTION: SINGLE MASTER UNIT

83. BUILDING SECTION: SINGLE BASE UNIT

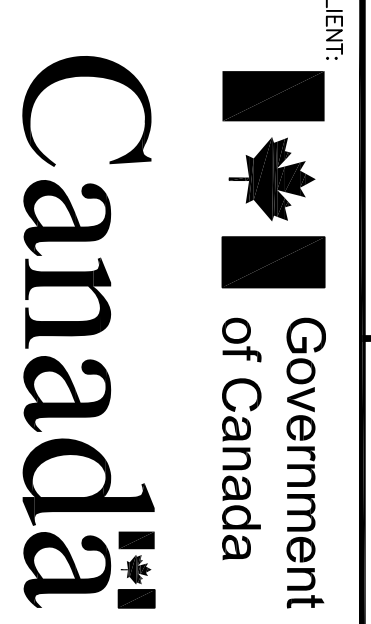
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85. BUILDING SECTION: MASTER MODULE

86. BUILDING SECTION: BASE MODULE

87. BUILDING SECTION: SINGLE MASTER UNIT

88. BUILDING SECTION: SINGLE BASE UNIT



CLIENT

CONSULTANTS

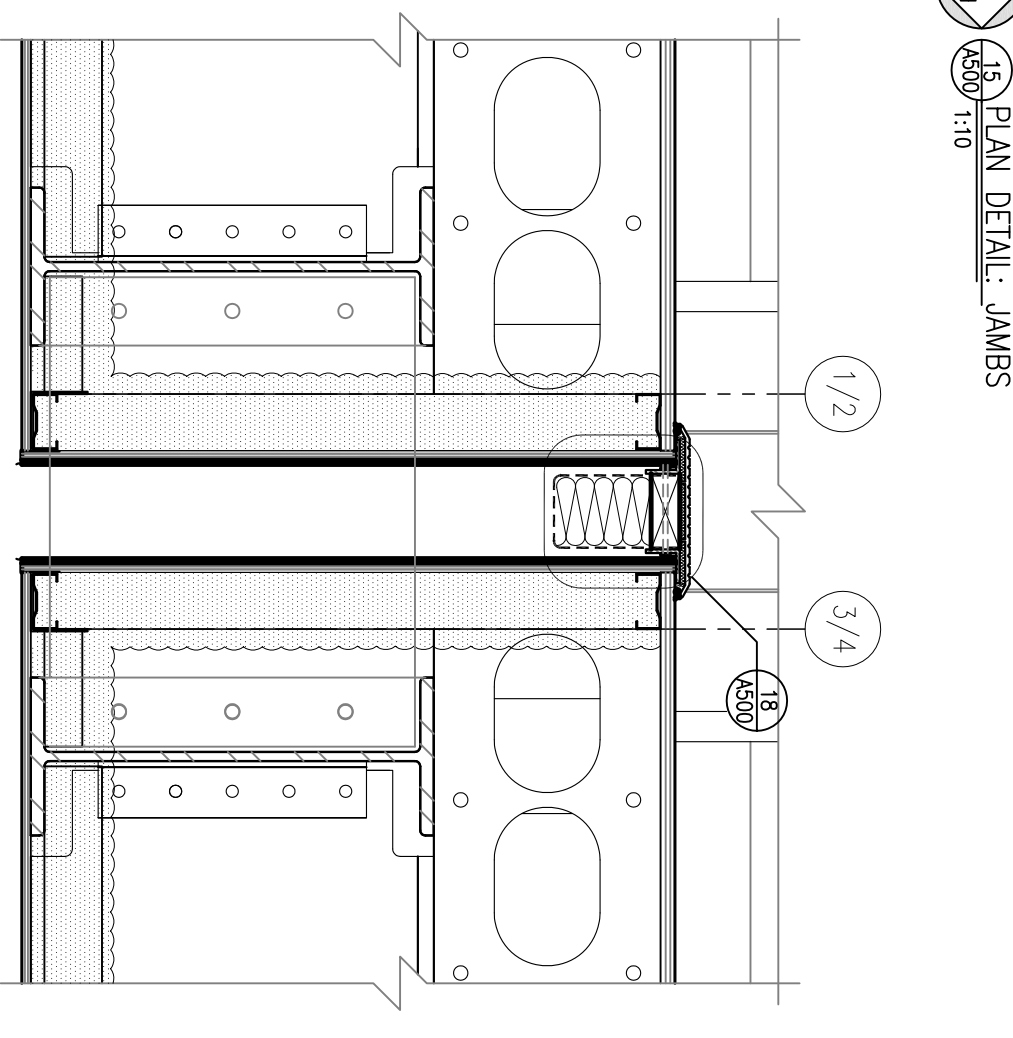
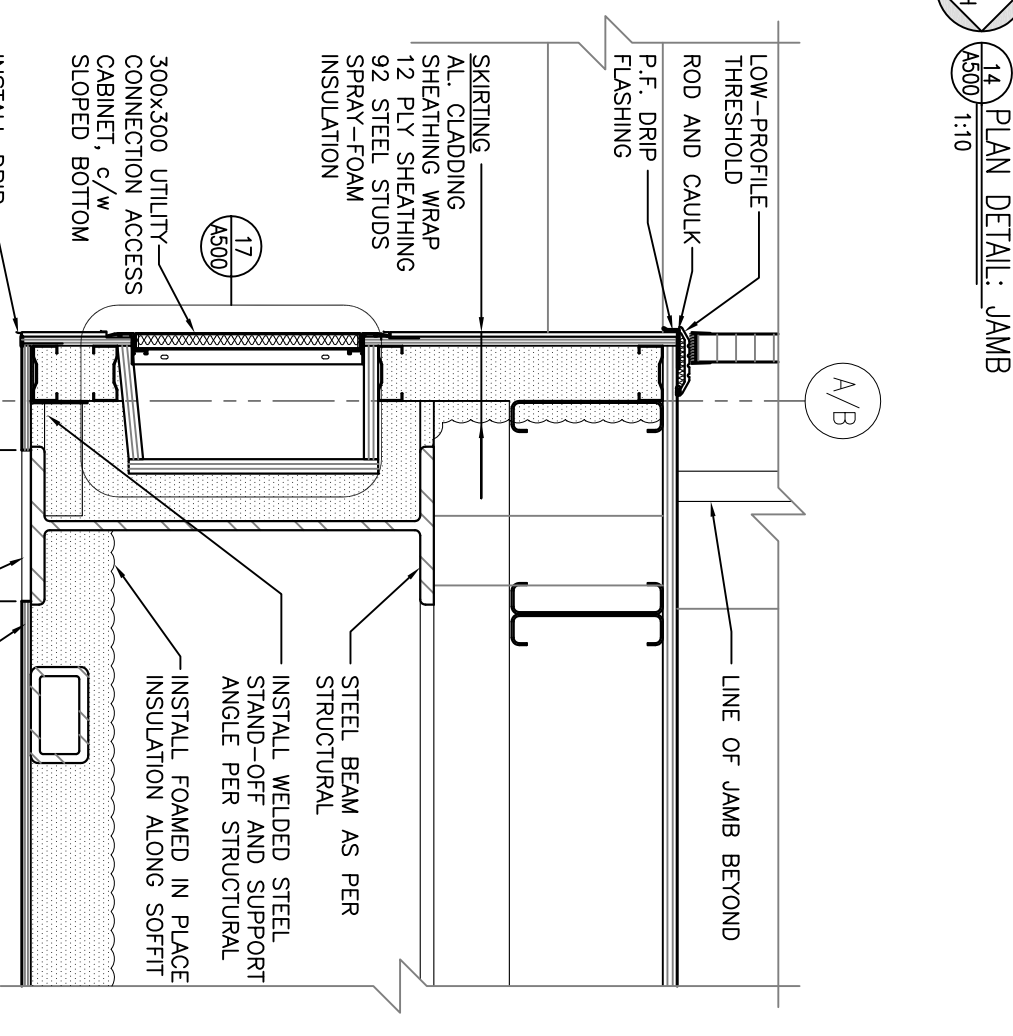
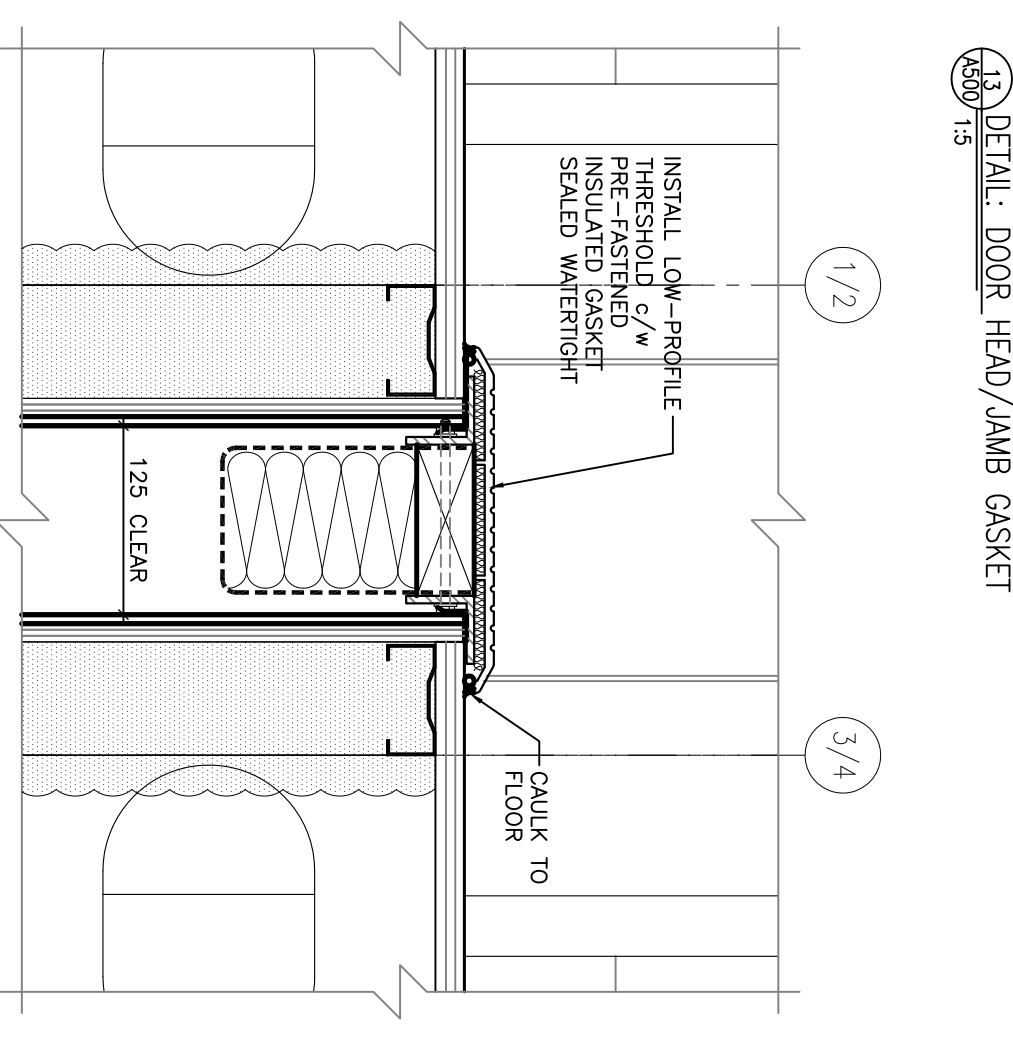
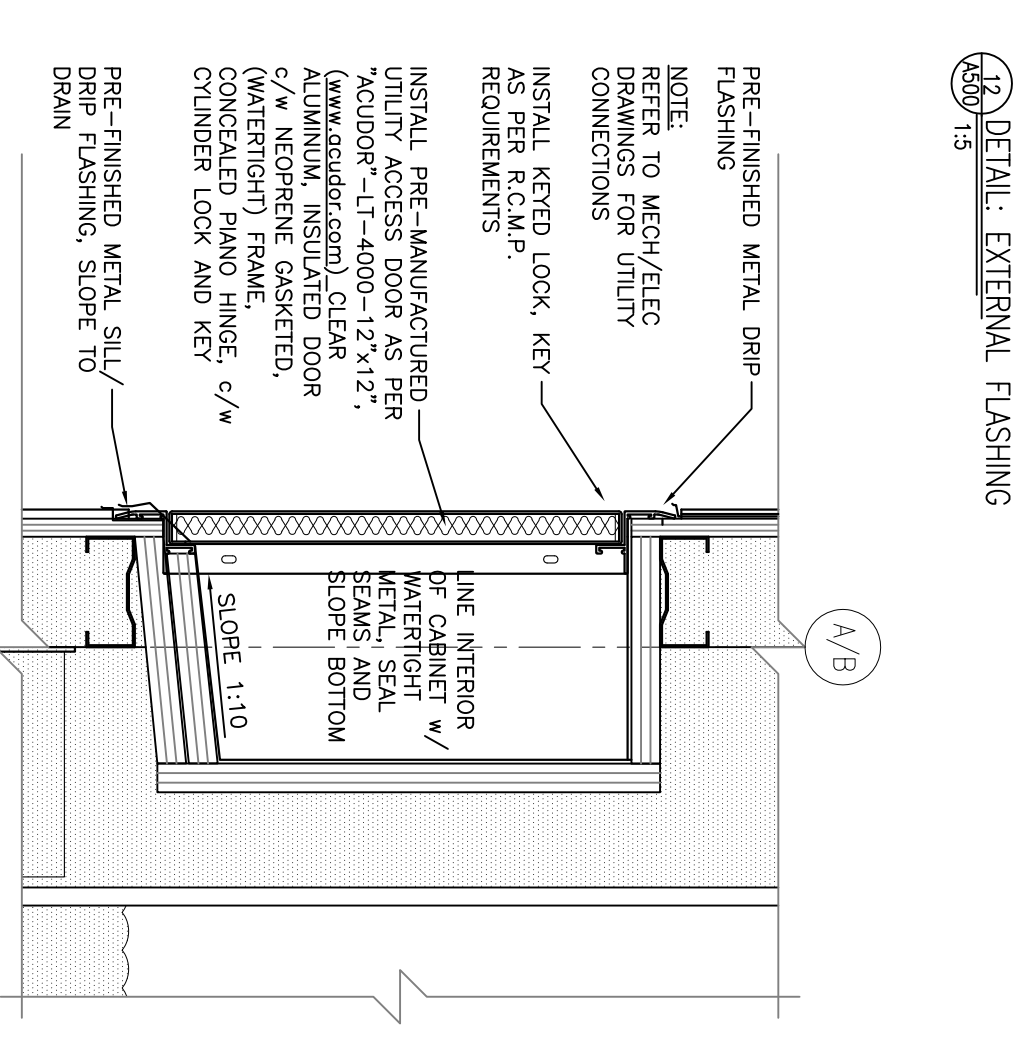
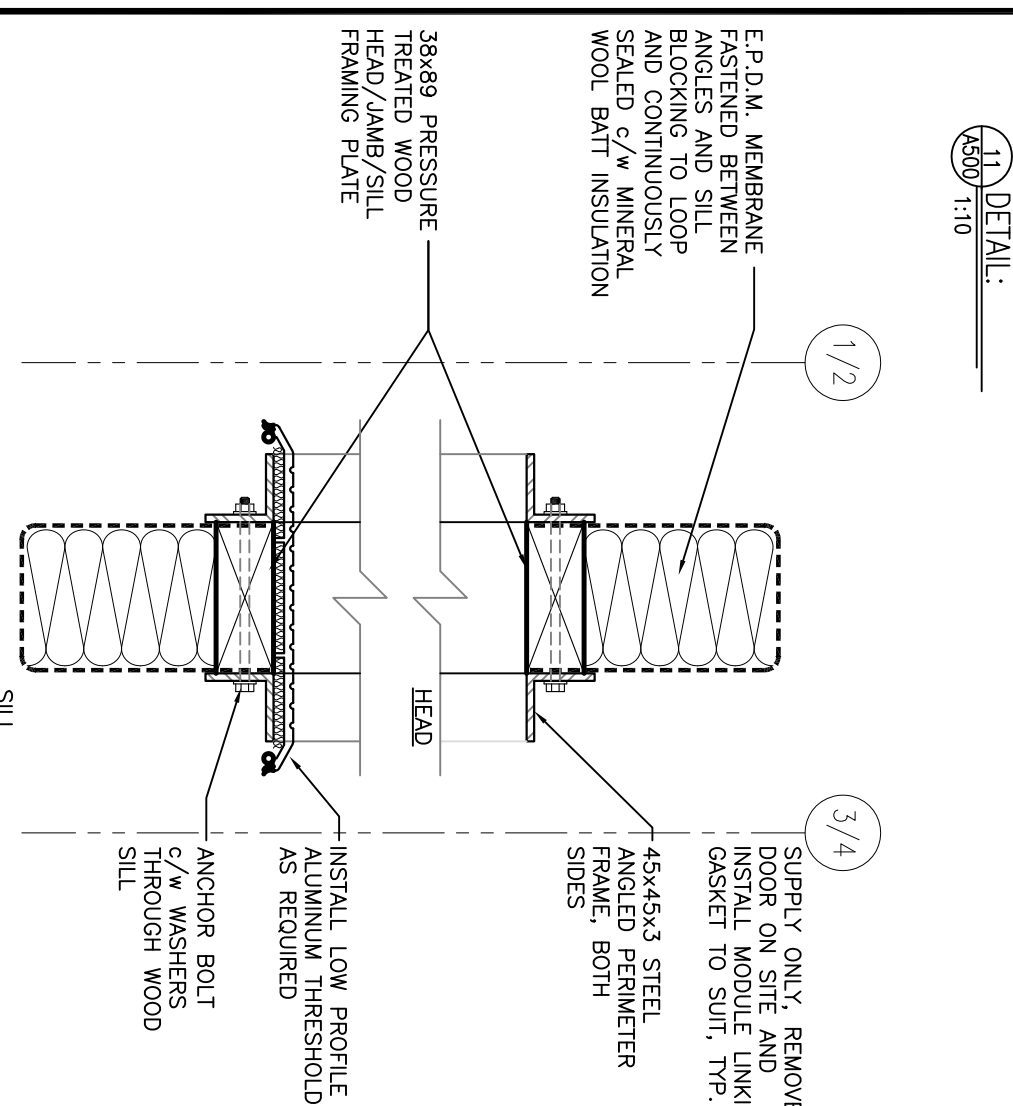
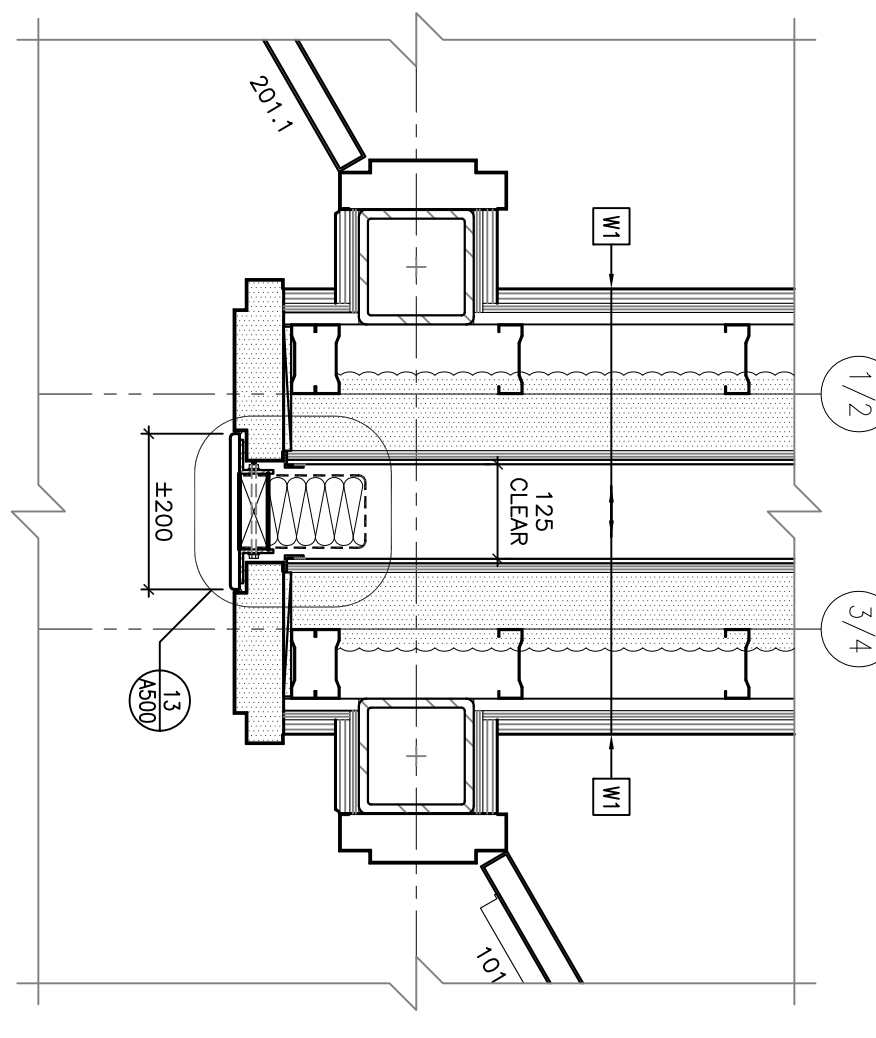
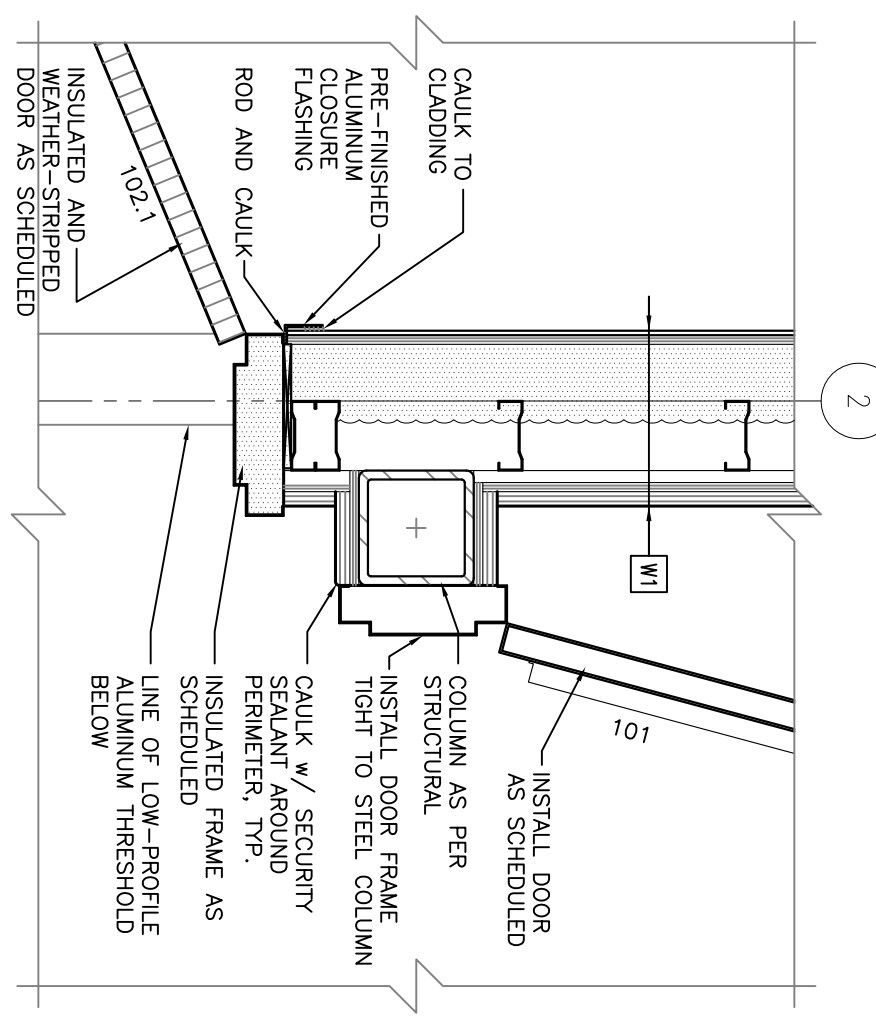
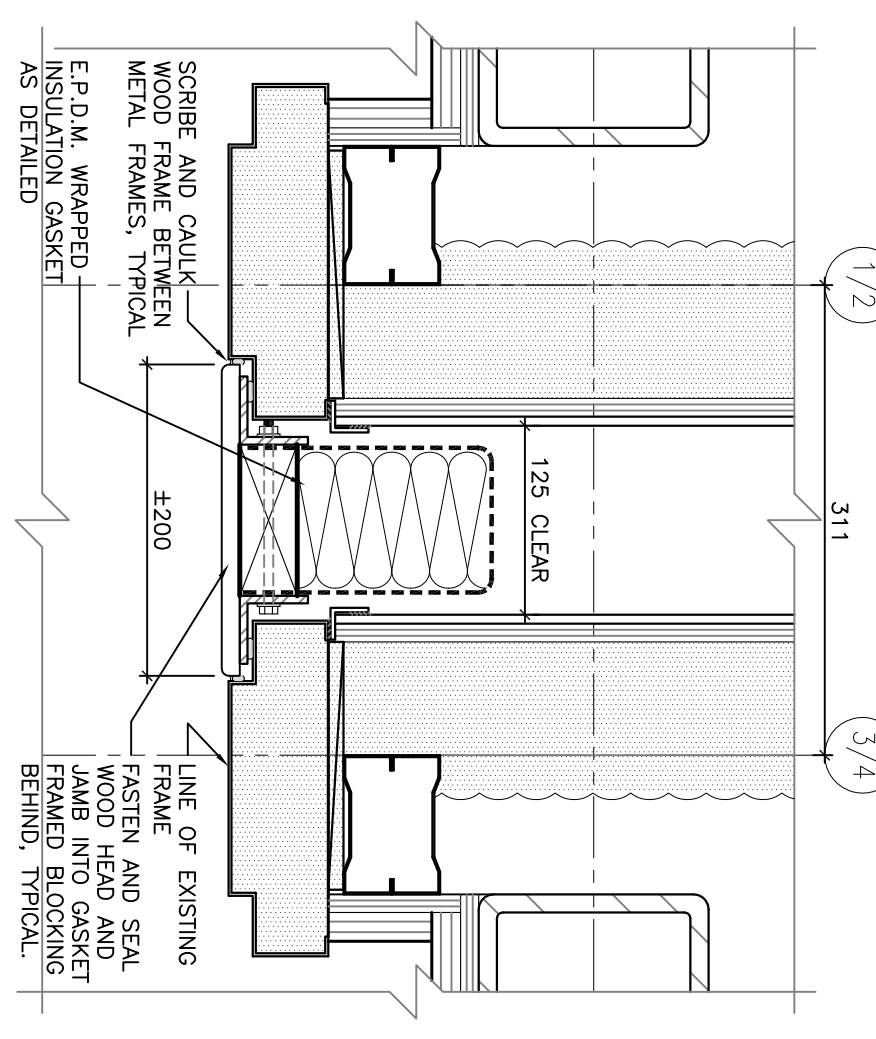
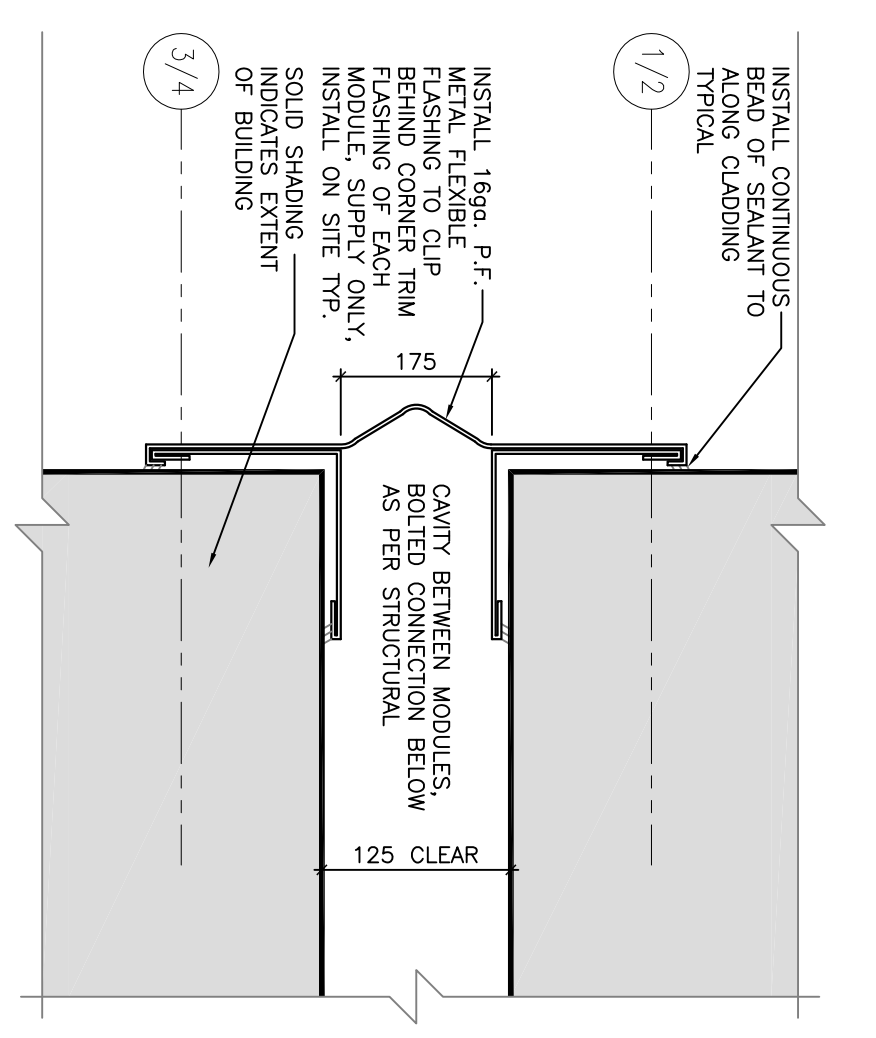
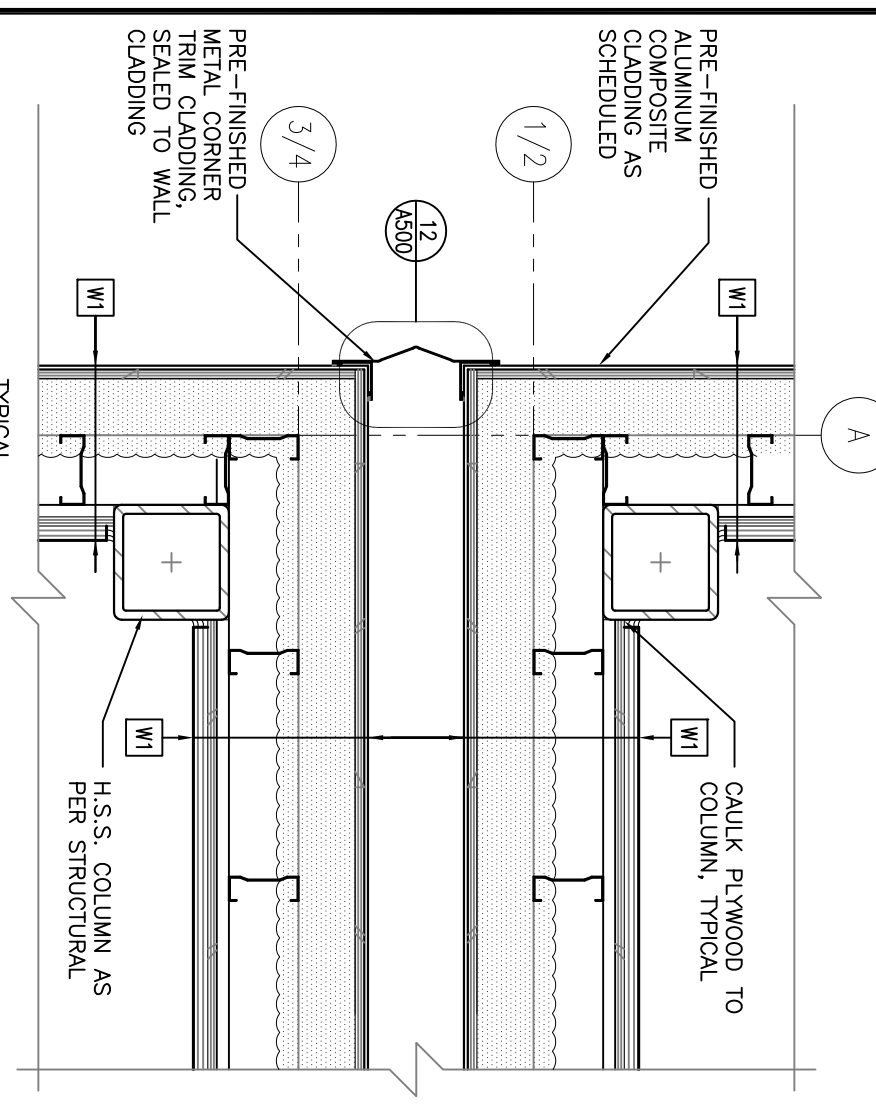
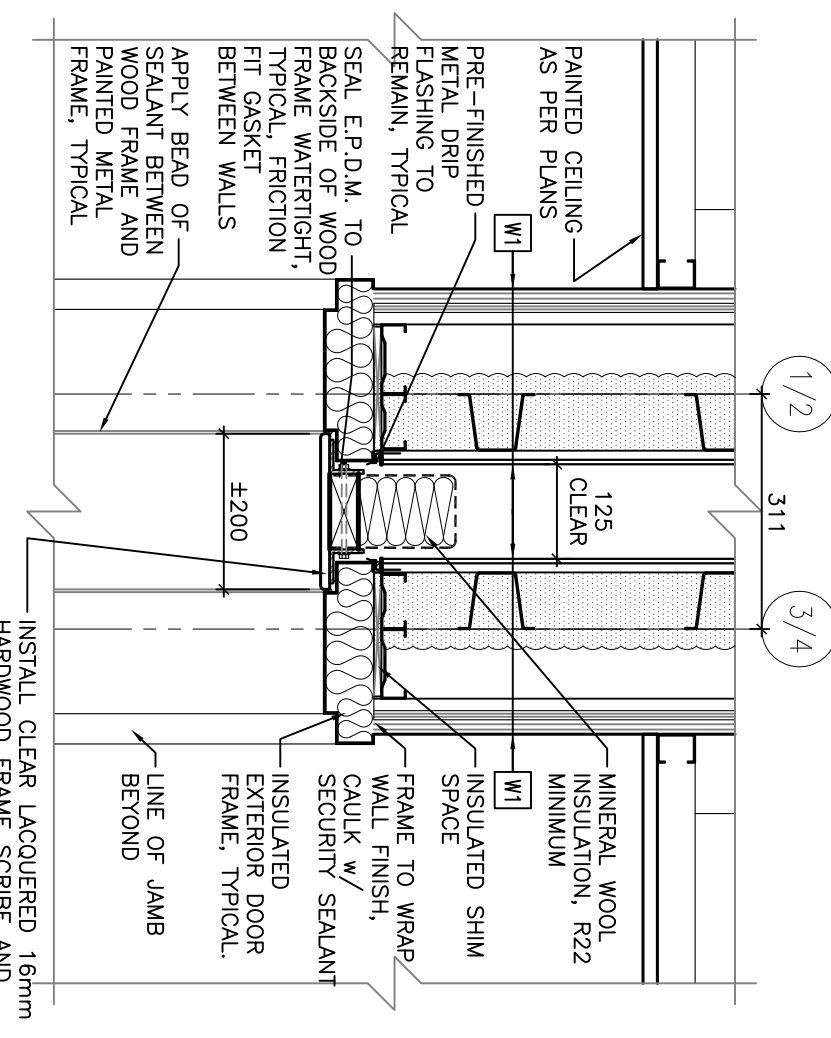
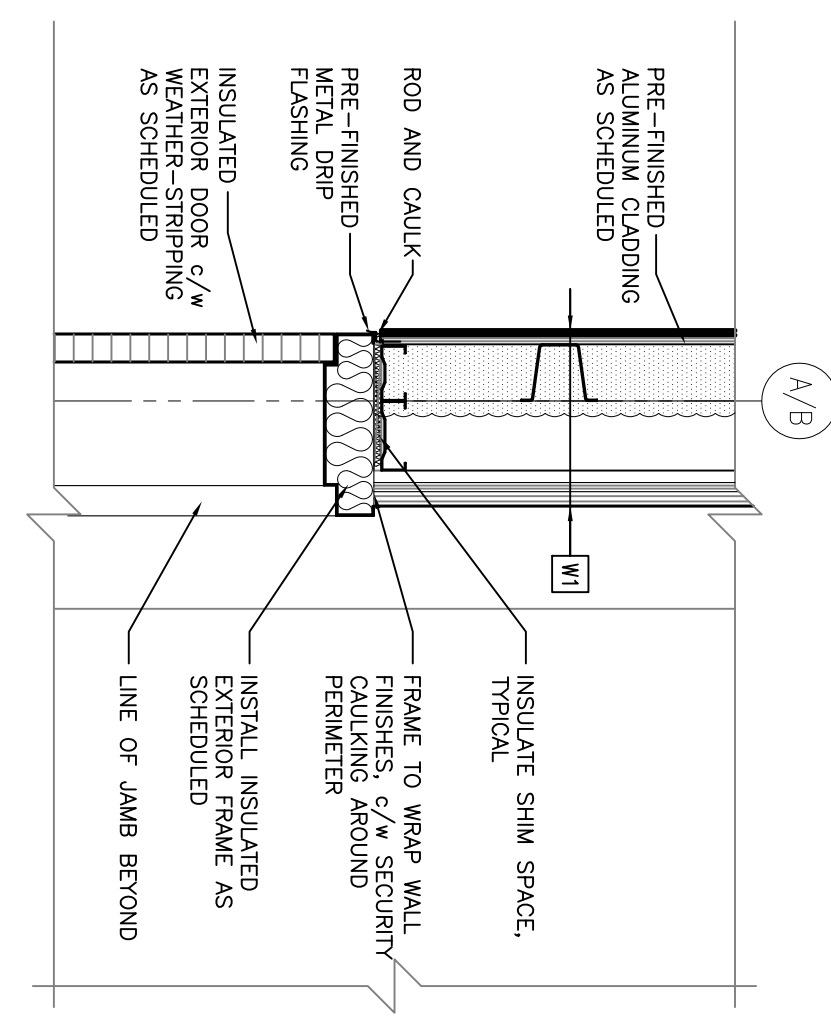
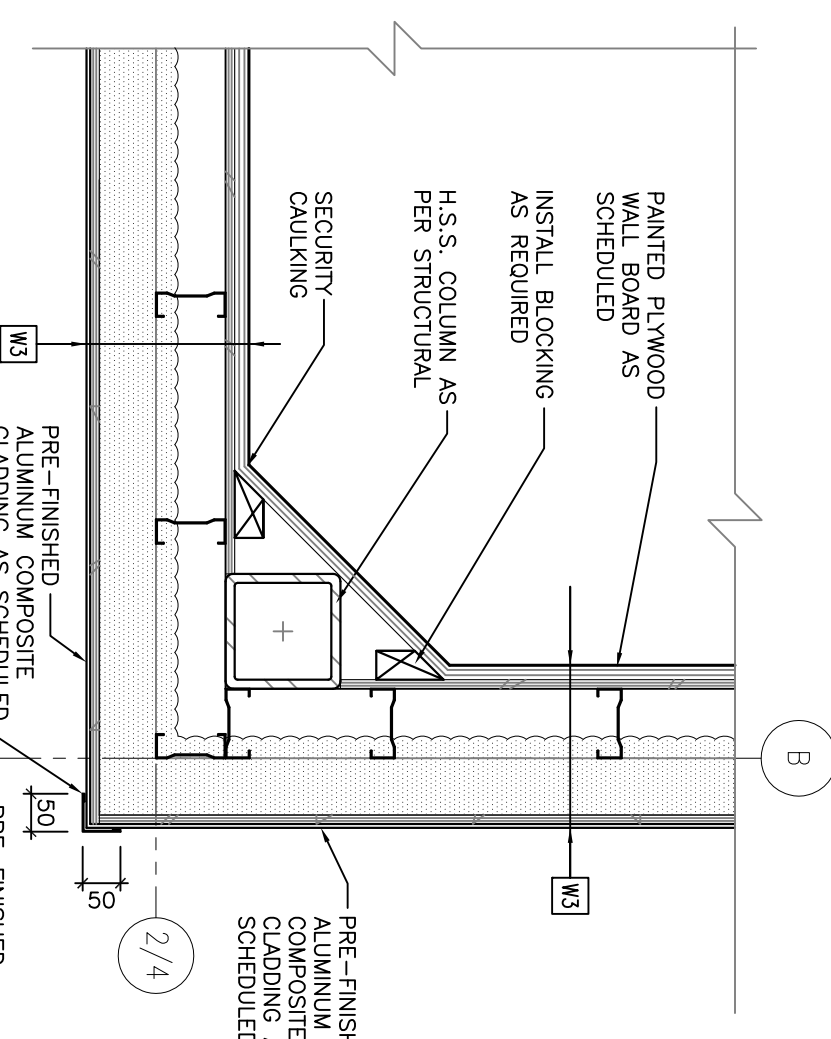
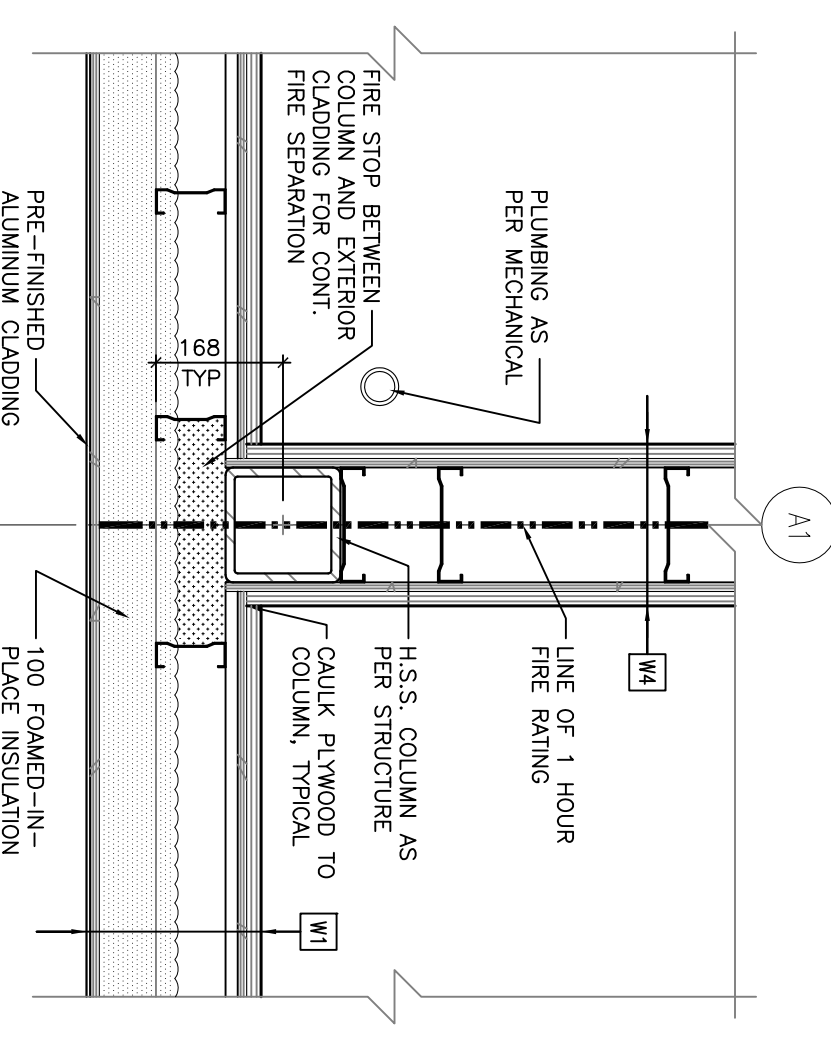
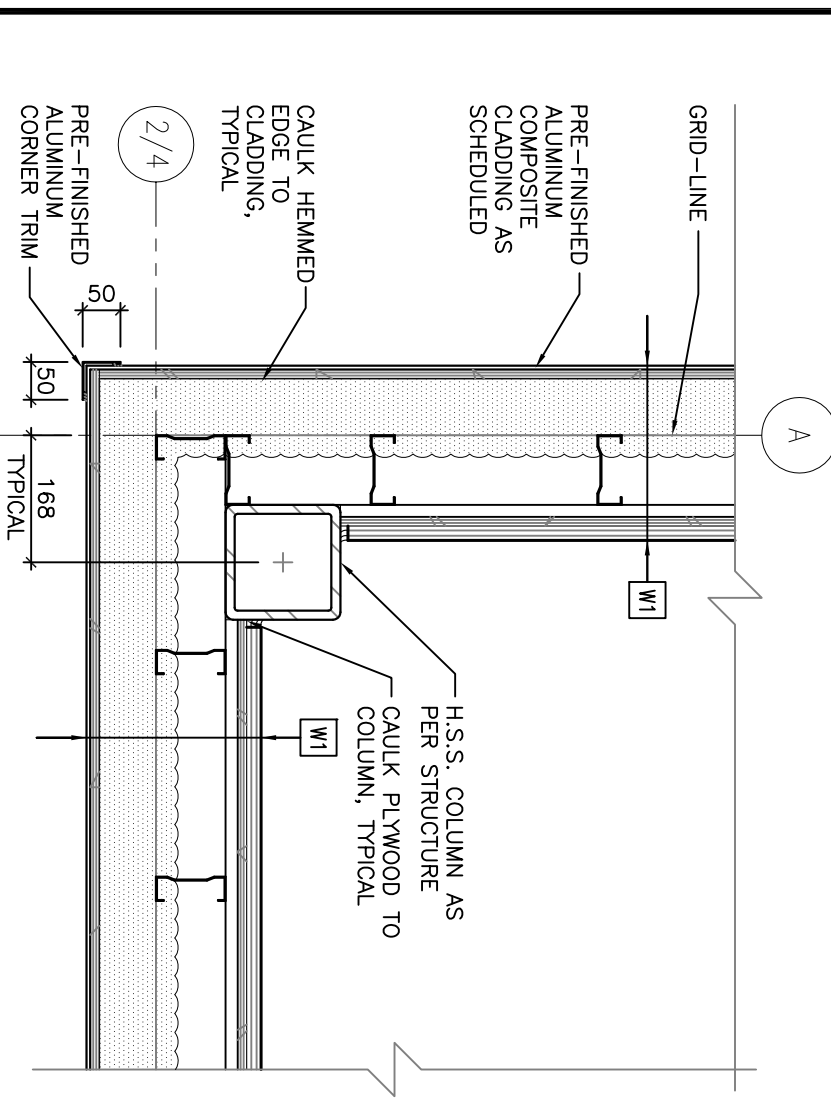
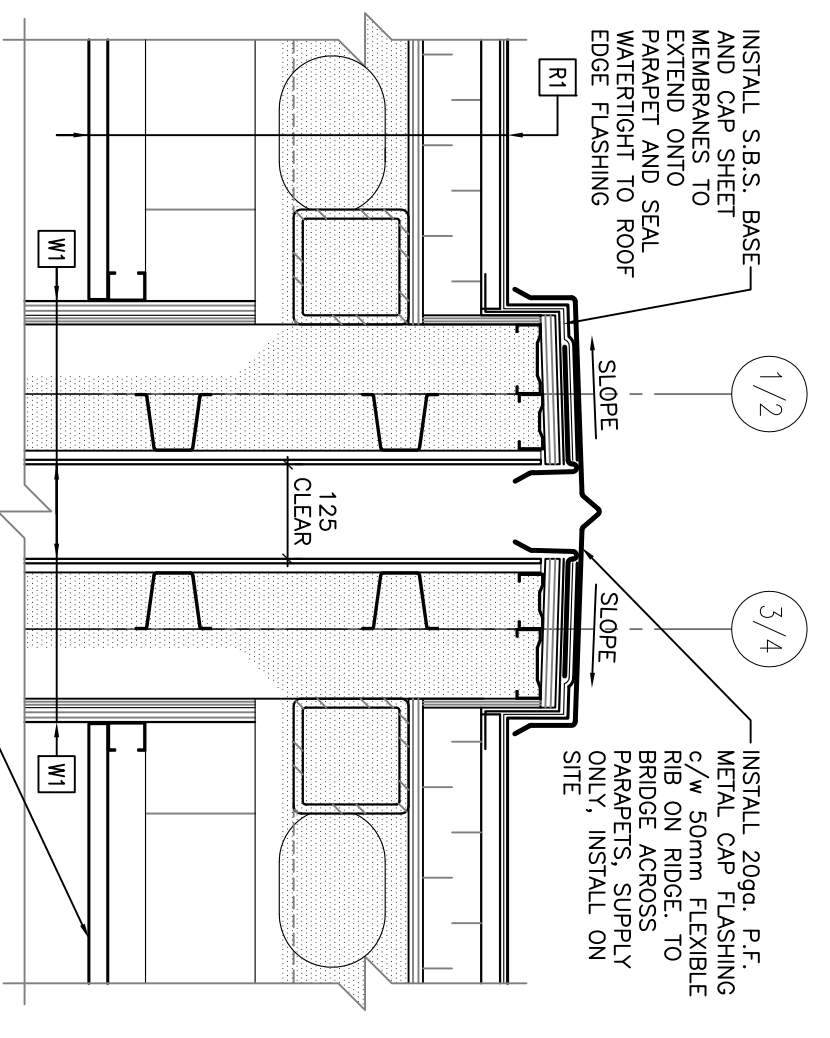
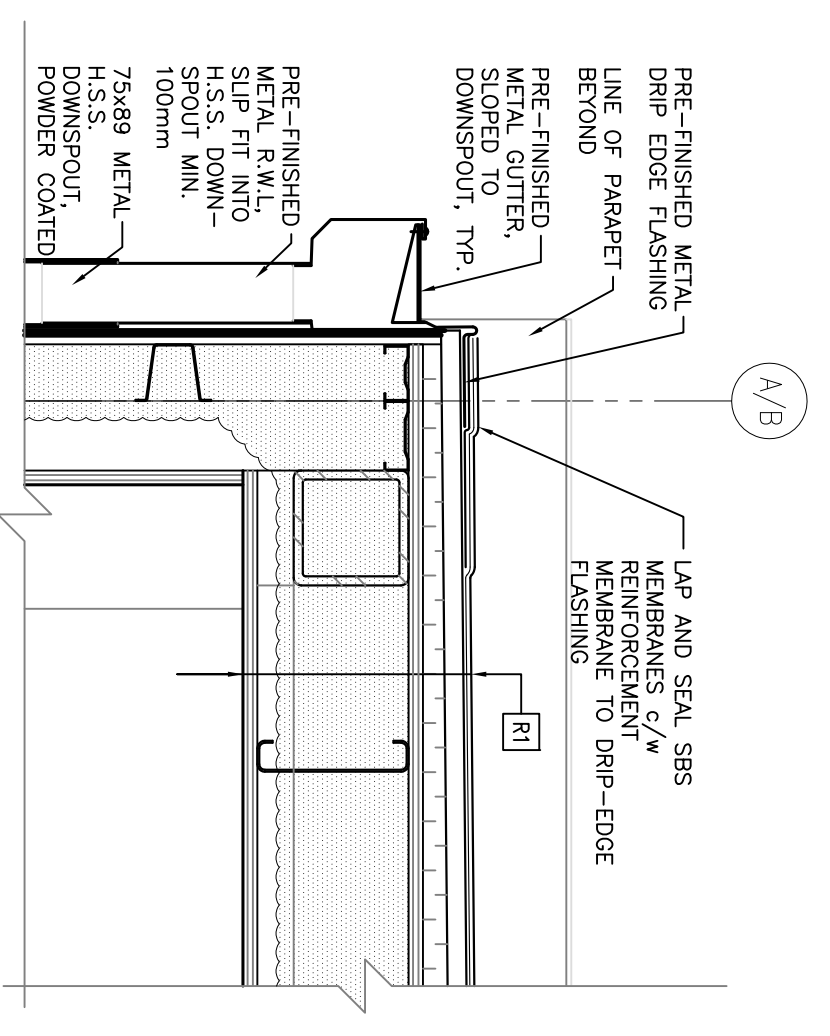
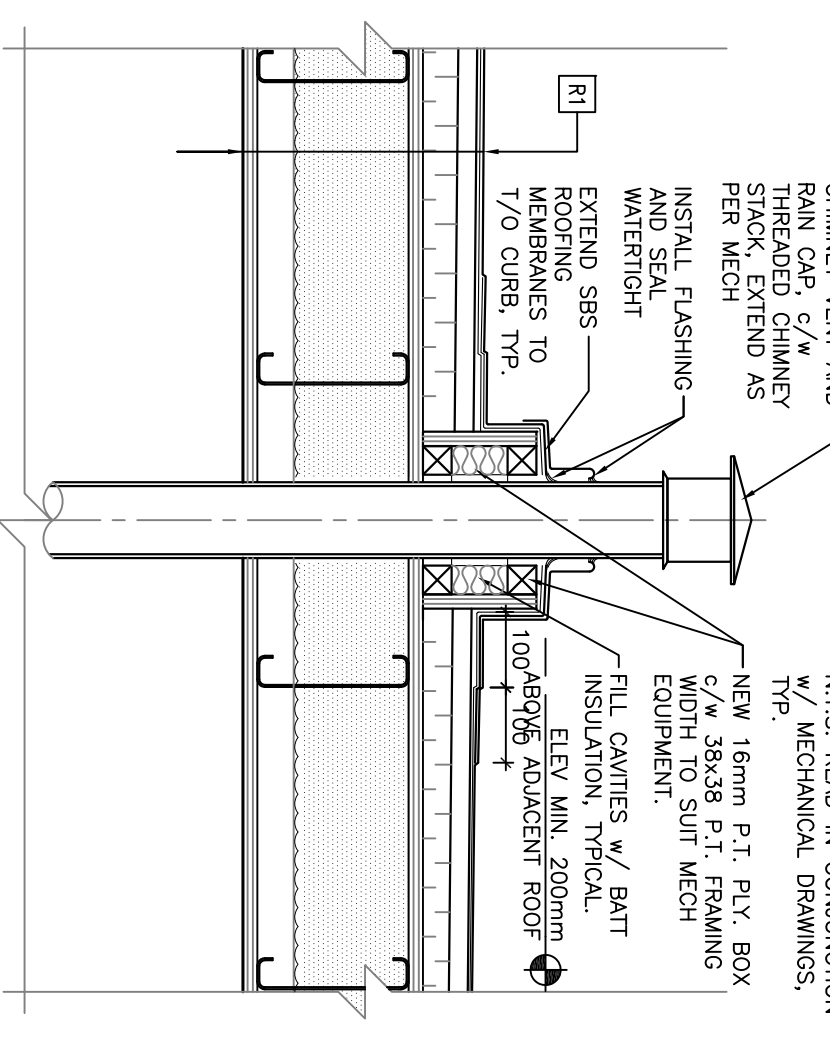
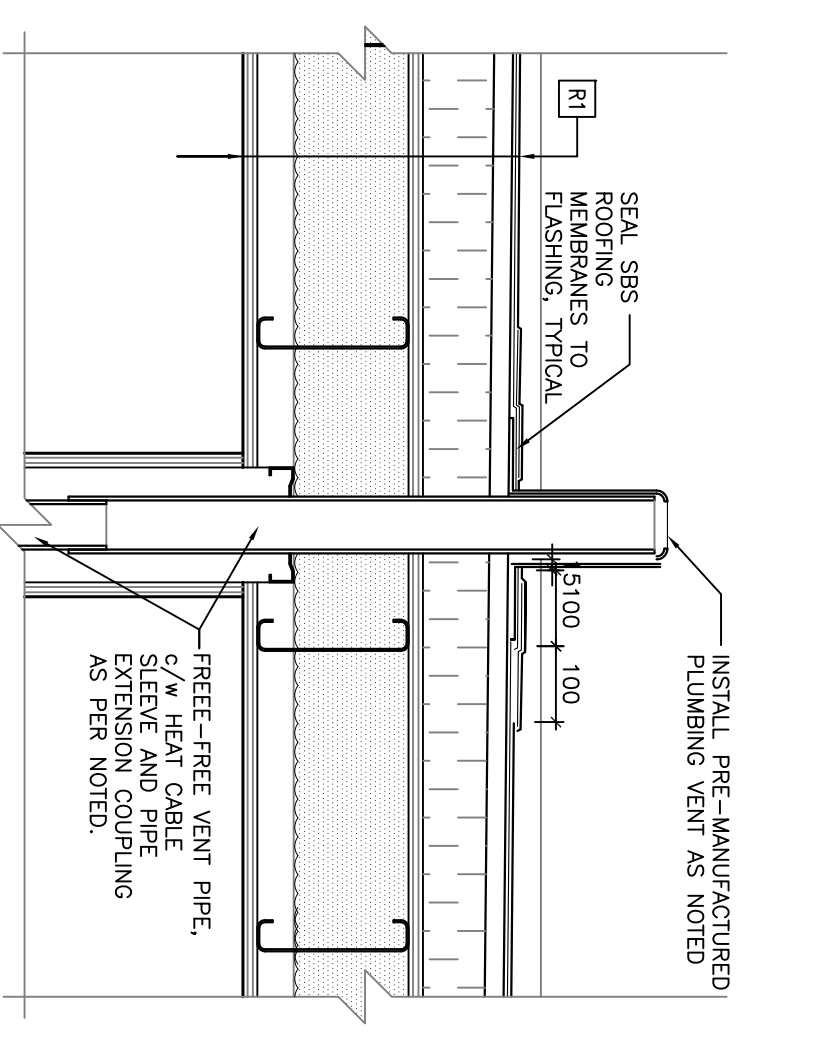
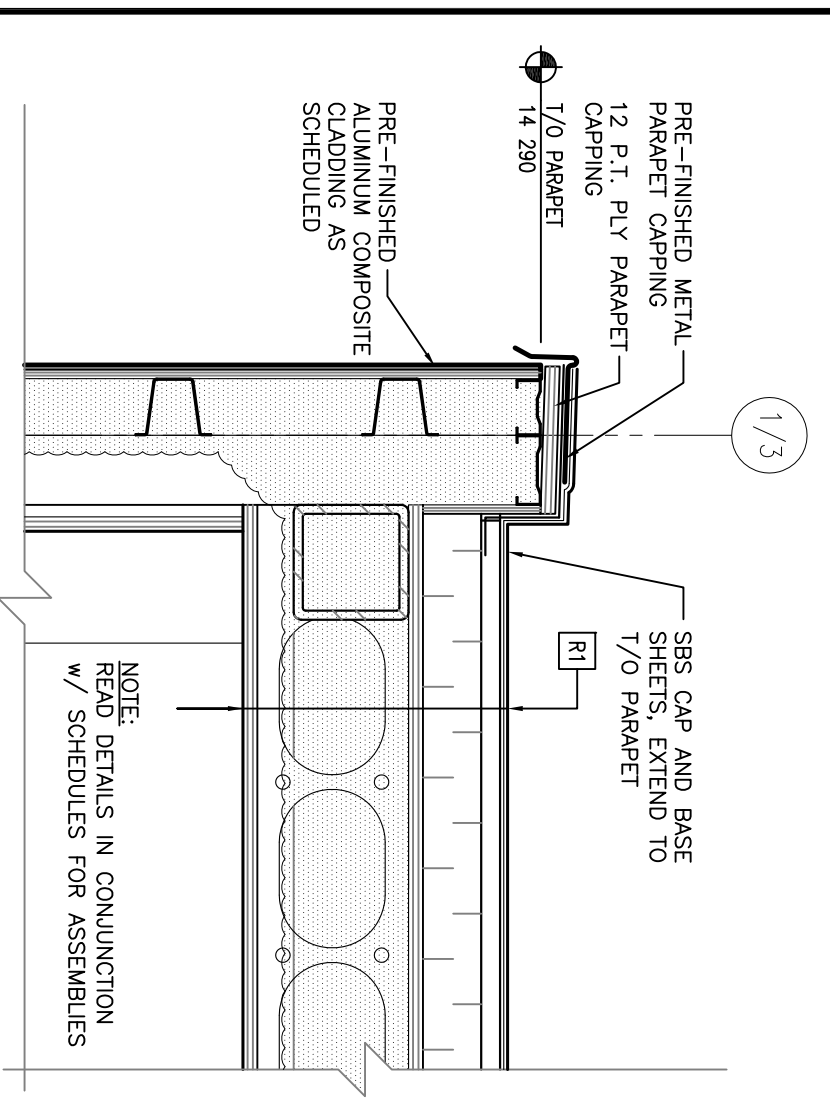
**R B M**  
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 2205 KENNEDY AVENUE  
 SUITE 200  
 SCARBOROUGH, ONTARIO M1T 3Z5  
 TEL: 416-291-1111  
 FAX: 416-291-1112  
 WWW.RBMARCHITECTURE.COM

**POLICE TRANSPORTABLE HOLDING CELLS**

**BUILDING SECTIONS, AND, WALL SECTIONS,**

PROJECT No.: 510-10  
 DATE: 2011/09/23  
 DRAWN BY: CG  
 SCALE: AS NOTED

SHEET No.: 1  
 PLOT No.: 1  
**A400**



CLIENT:	Government of Canada
CONSULTANTS:	R B M
PROJECT:	POLICE TRANSPORTABLE HOLDING CELLS
DRAWING:	DETAILS
PROJECT No.:	510-10
DATE:	2011/09/23
DRAWN BY:	CS
SCALE:	AS NOTED
SHEET No.:	A500
PLOT No.:	1

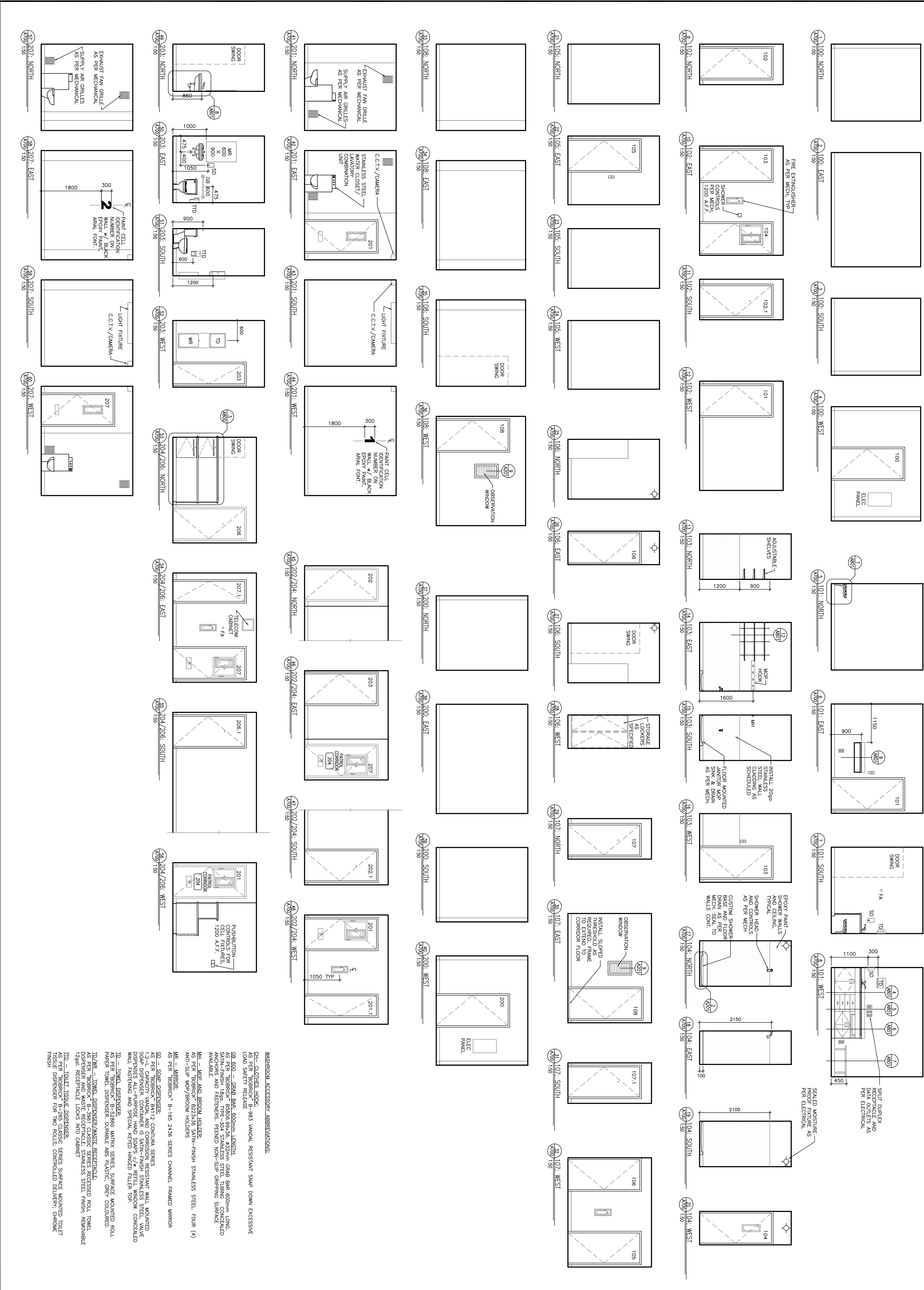
**Canada**

**R B M**

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 Tel: 416-291-2200  
 Fax: 416-291-2201  
 Email: info@rbm.com

PROJECT: POLICE TRANSPORTABLE HOLDING CELLS  
 DRAWING: DETAILS  
 PROJECT No.: 510-10  
 DATE: 2011/09/23  
 DRAWN BY: CS  
 SCALE: AS NOTED  
 SHEET No.: A500  
 PLOT No.: 1



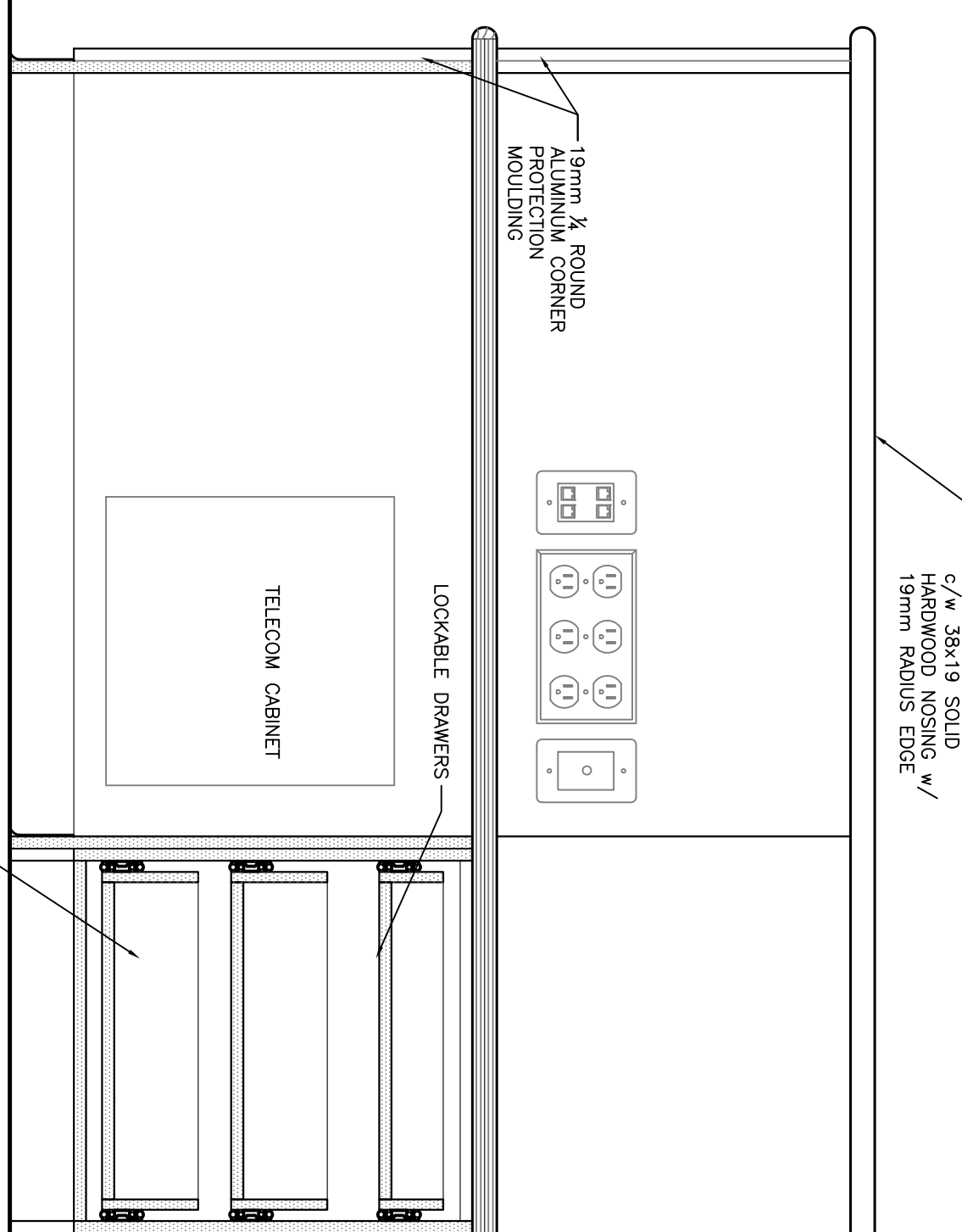
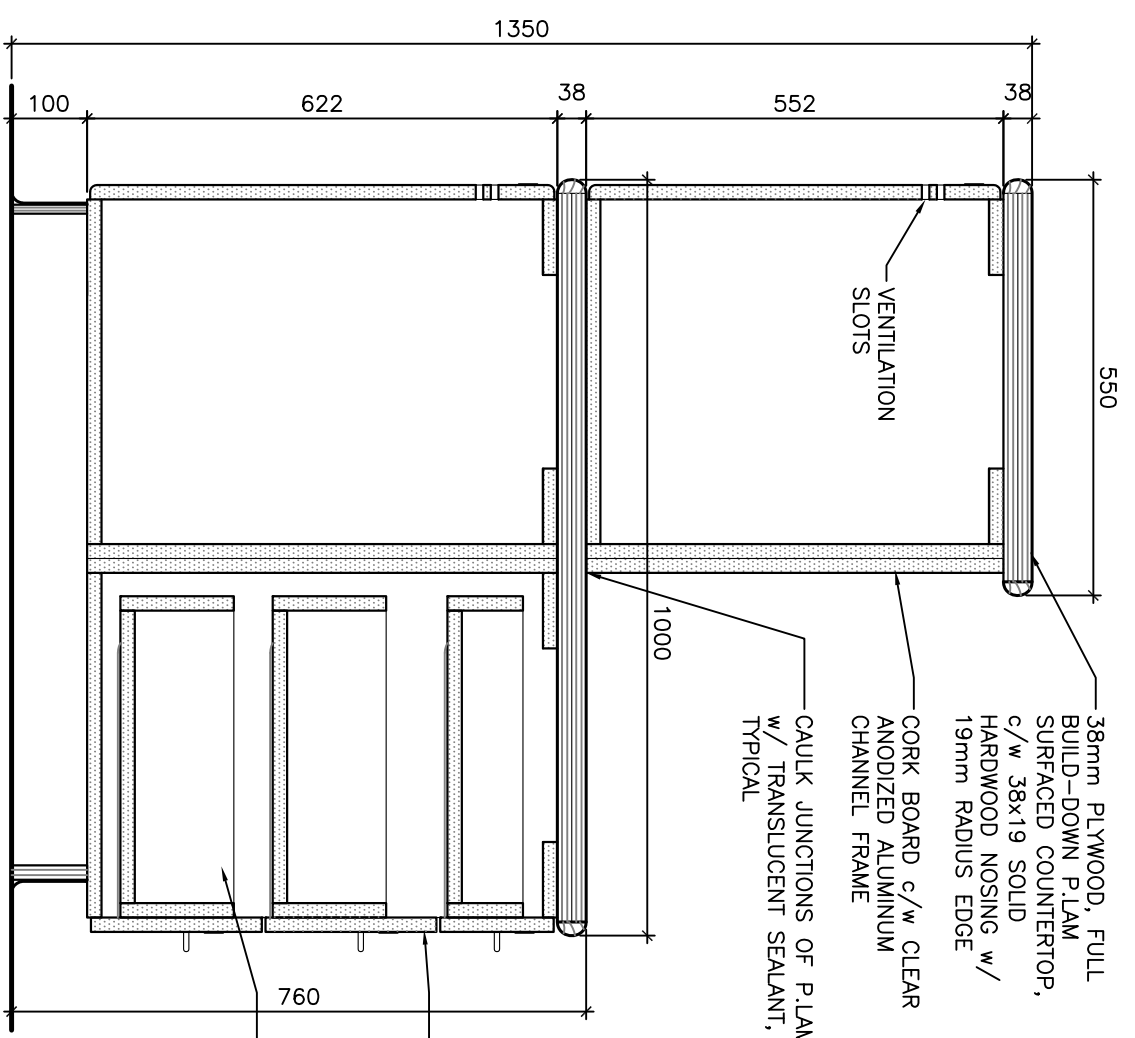
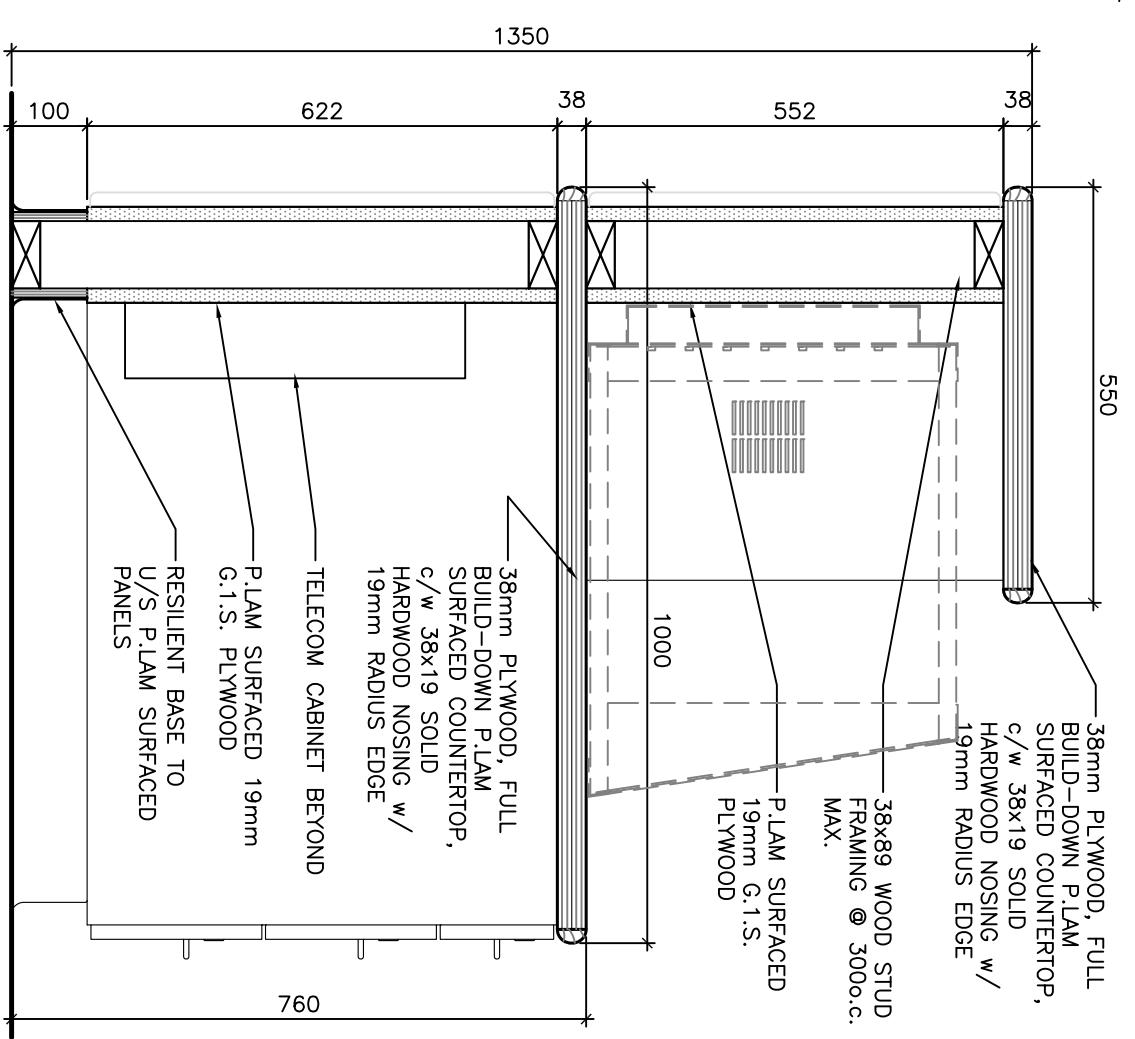
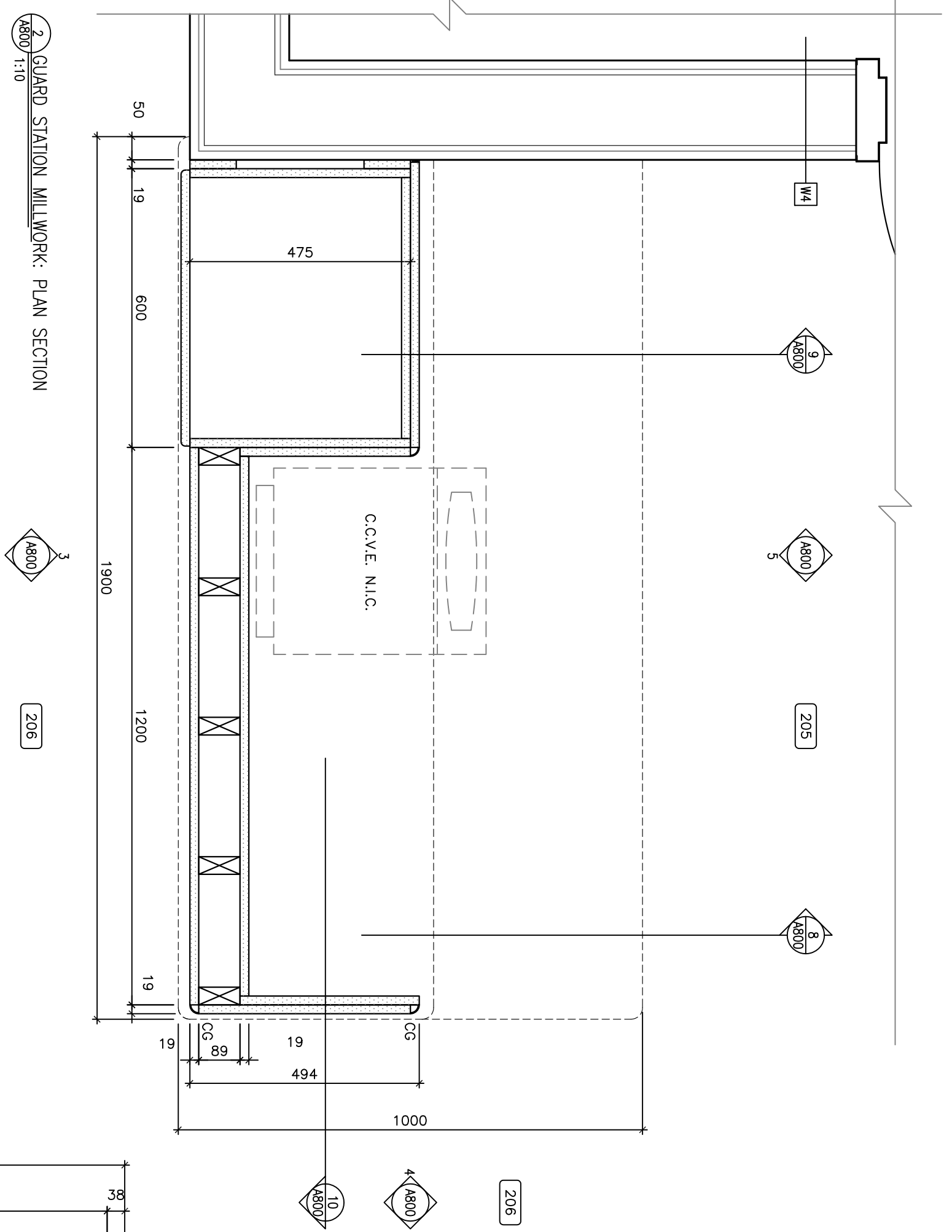
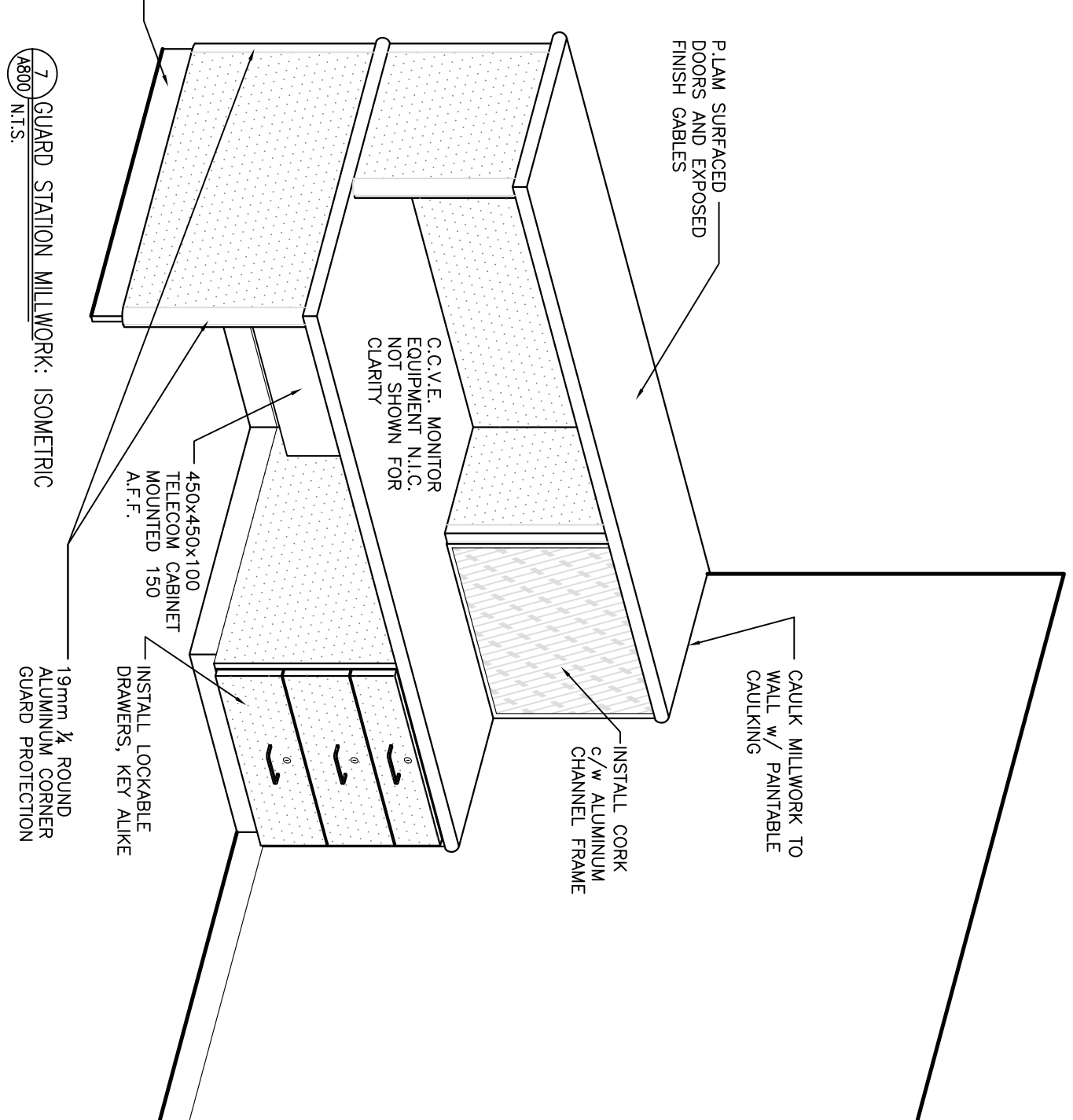
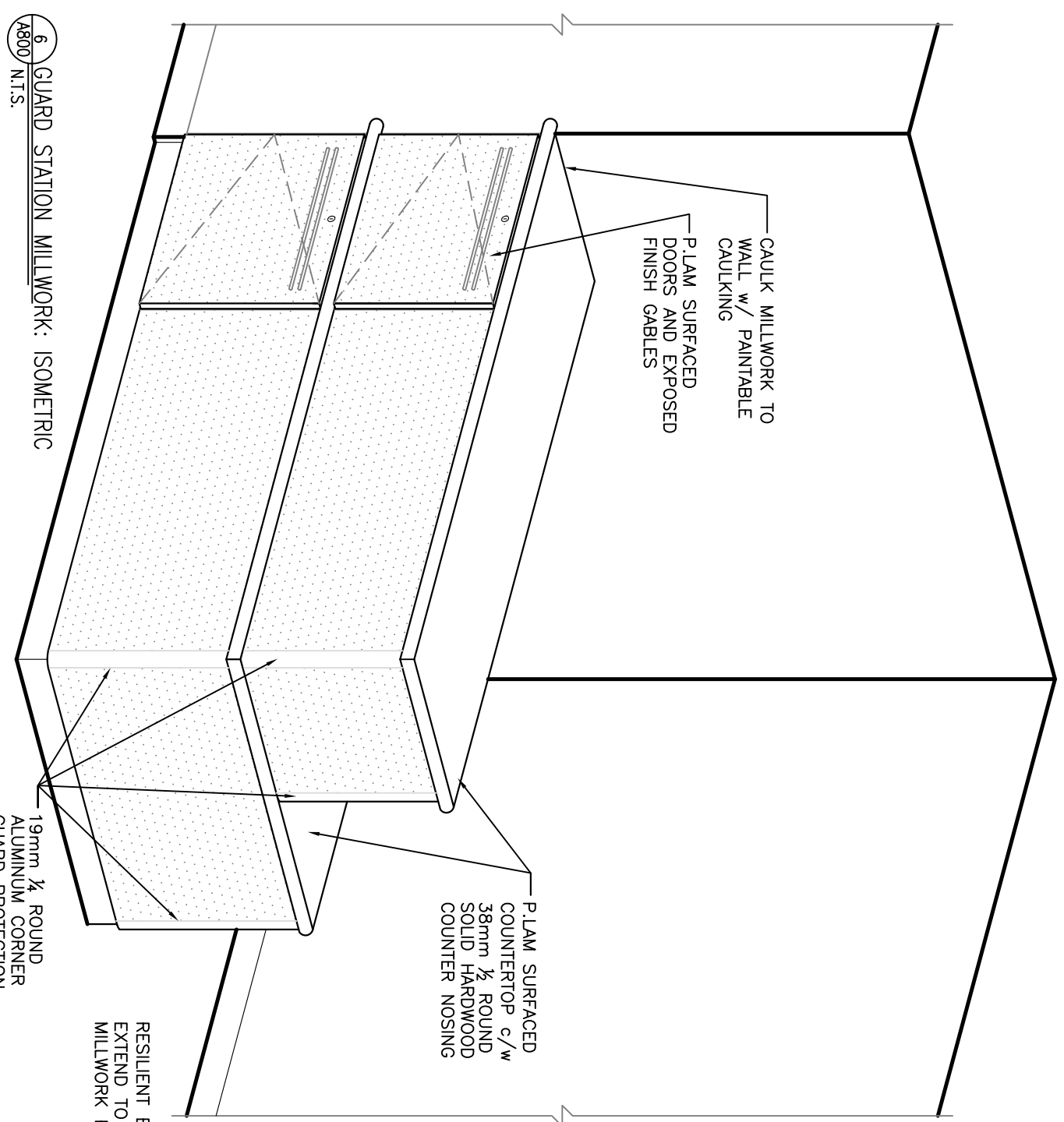
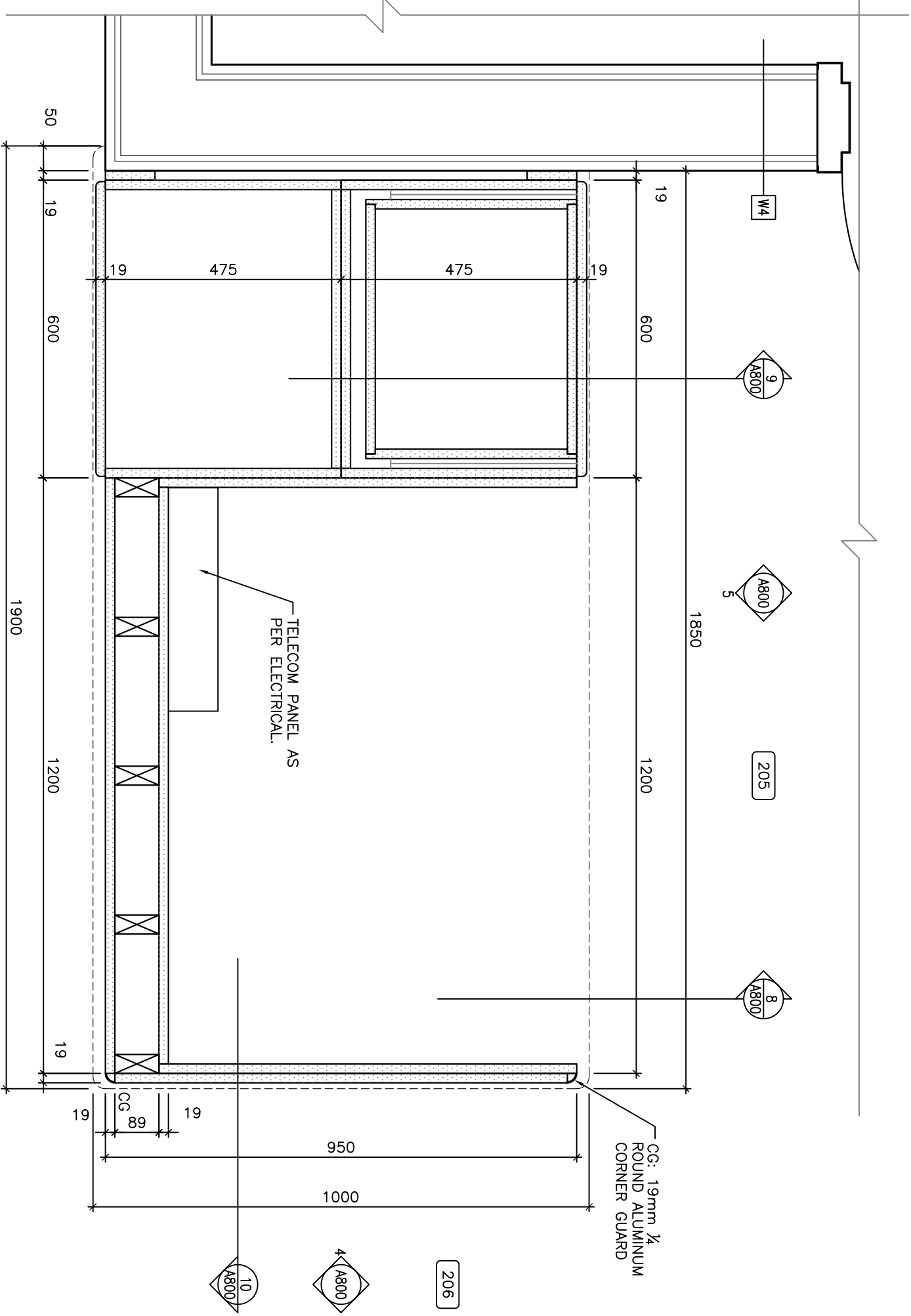
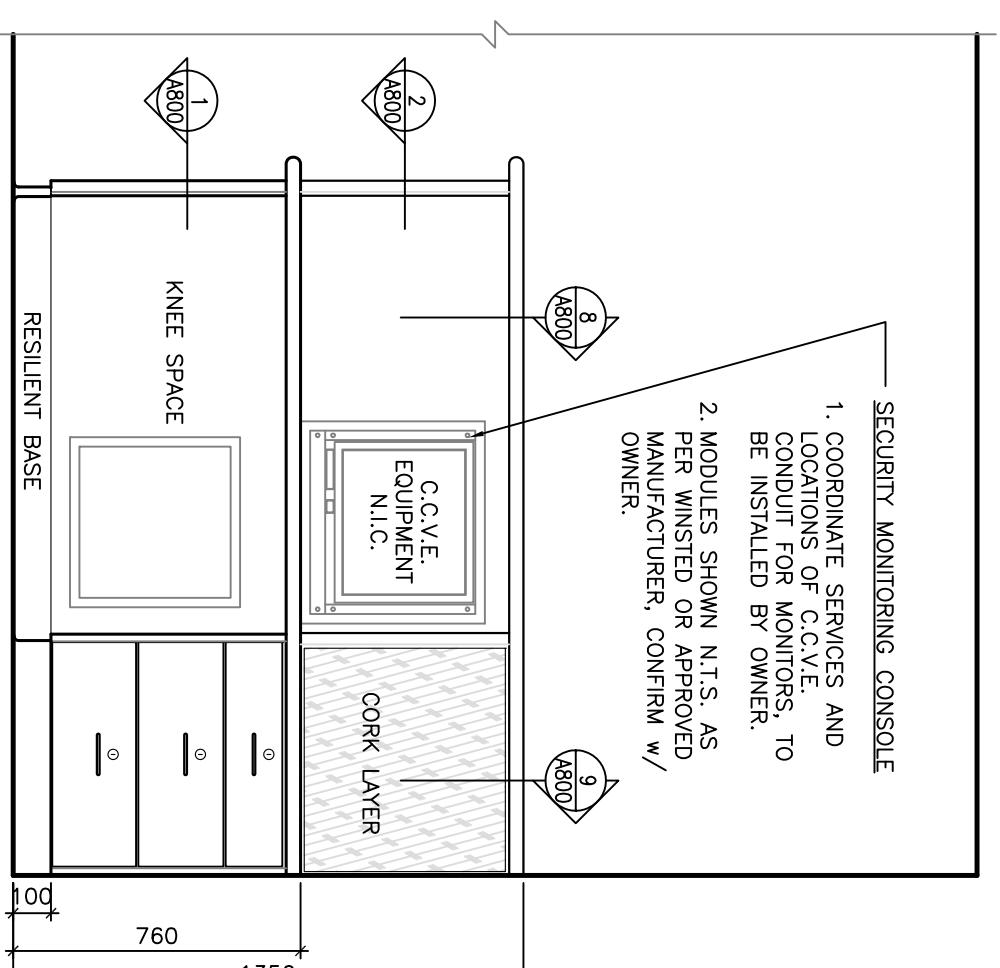
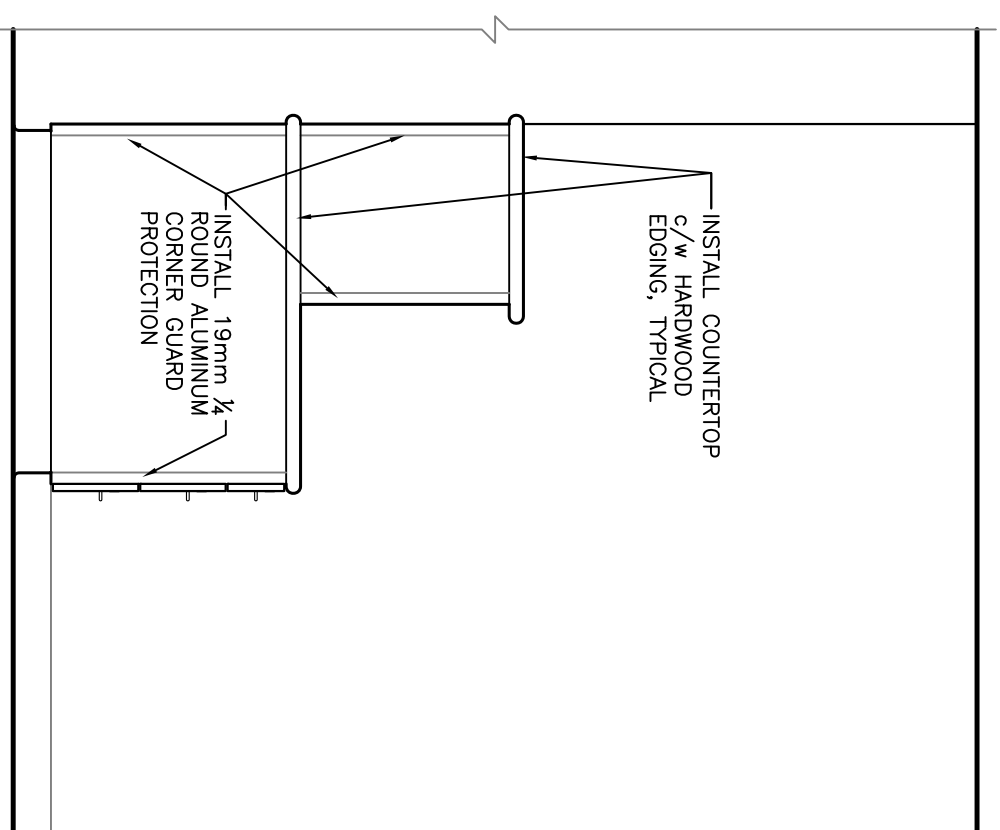
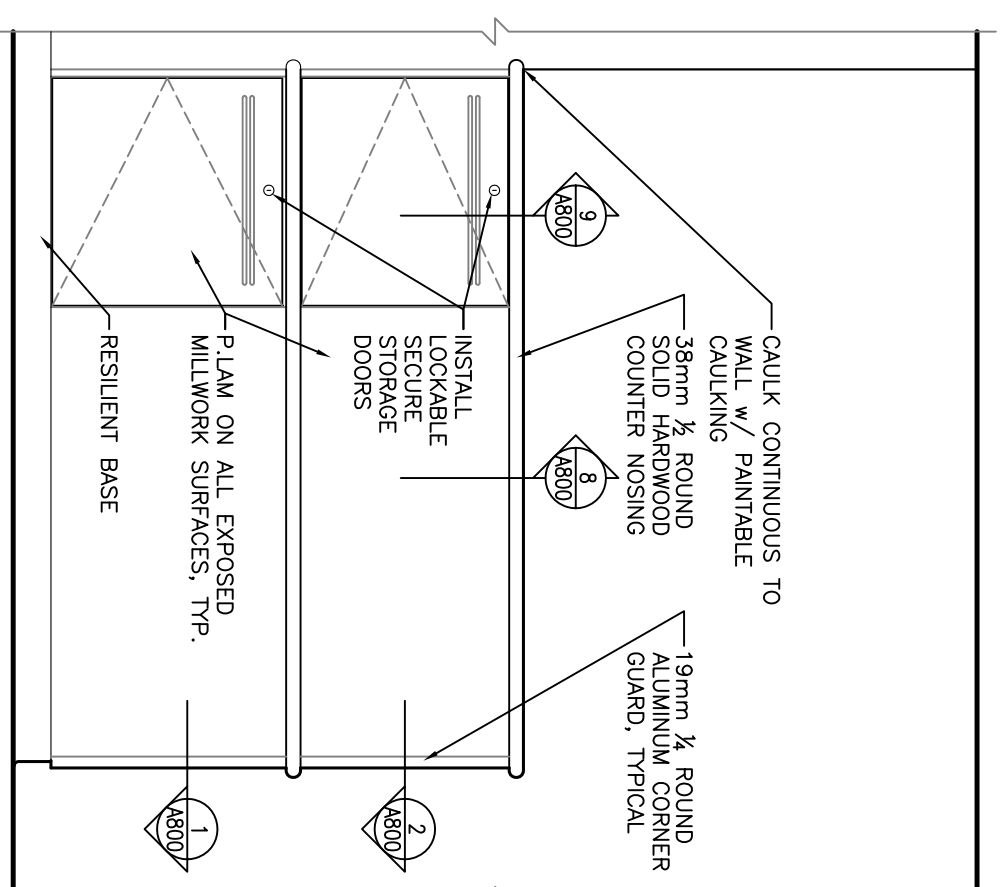


- WASHROOM ACCESSORY ABBREVIATIONS:**
- CH - CLOTHES HOOK.
  - AS PER "BOBOROCK" B-983 VANDAL RESISTANT SWAP DOWN EXCESSIVE LOAD SAFETY RELEASE.
  - GB-600 - GRAB BAR, 600MM LENGTH.
  - LS PER "BOBOROCK" B-506 39X35, 40ZMM GRAB BAR 600MM LONG.
  - MS PER "BOBOROCK" B-391 CLASSIC SERIES RECESSED ROLL TOWEL DISPENSER AND WASTE RECEPTACLE, STAINLESS STEEL FINISH, REMOVABLE TAPER, RECEPTACLE LOCKS INTO CABINET.
  - TTD - TOILET TISSUE DISPENSER.
  - AS PER "BOBOROCK" B-285 CLASSIC SERIES SURFACE MOUNTED TOILET AS PER DISPENSER FOR TWO ROLLS, CONTROLLED DELIVERY, CHROME FINISH.
  - MR - MIRROR.
  - AS PER "BOBOROCK" B-168 2438 SERIES CHANNEL FRAMED MIRROR.
  - SD - SOAP DISPENSER.
  - AS PER "BOBOROCK" B4112 CONTURA SERIES.
  - 2-2-L CAPACITY VANDAL AND CORROSION RESISTANT WALL MOUNTED DISPENSER AND PURPOSE HAND SOAPS 4/4 RETIL WINDOW, CONCEALED WALL FASTENING AND SPECIAL KEED HINGED FILTER TOP.
  - TD - TOWEL DISPENSER.
  - AS PER "BOBOROCK" B-52860 MATRIX SERIES, SURFACE MOUNTED ROLL PAPER TOWEL DISPENSER, DURABLE ABS PLASTIC, GREY COLOURED.
  - TD/WR - TOWEL DISPENSER/WASTE RECEPTACLE.
  - AS PER "BOBOROCK" B-391 CLASSIC SERIES RECESSED ROLL TOWEL DISPENSER AND WASTE RECEPTACLE, STAINLESS STEEL FINISH, REMOVABLE TAPER, RECEPTACLE LOCKS INTO CABINET.
  - TTD - TOILET TISSUE DISPENSER.
  - AS PER "BOBOROCK" B-285 CLASSIC SERIES SURFACE MOUNTED TOILET AS PER DISPENSER FOR TWO ROLLS, CONTROLLED DELIVERY, CHROME FINISH.

<p><b>CLIENT</b></p> <p><b>CONSULTANTS</b></p> <p><b>PROJECT:</b> POLICE TRANSPORTABLE HOLDING CELLS</p>	<p><b>DATE:</b> 2011/09/23</p> <p><b>DRAWN BY:</b> CS</p> <p><b>SCALE:</b> AS NOTED</p>	<p><b>PROJECT No.:</b> 510-10</p> <p><b>SHEET No.:</b> 1</p> <p><b>DATE:</b> 2011/09/23</p> <p><b>DRAWN BY:</b> CS</p> <p><b>SCALE:</b> AS NOTED</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">A700</p>
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ISSUE FOR CONSTRUCTION  
TENDER SUBMISSION  
98% REVIEW SUBMISSION  
80% REVIEW SUBMISSION  
50% REVIEW SUBMISSION

4. 2011/11/14  
3. 2011/08/23  
2. 2011/06/17  
1. 2011/04/04  
0. 2011/02/02

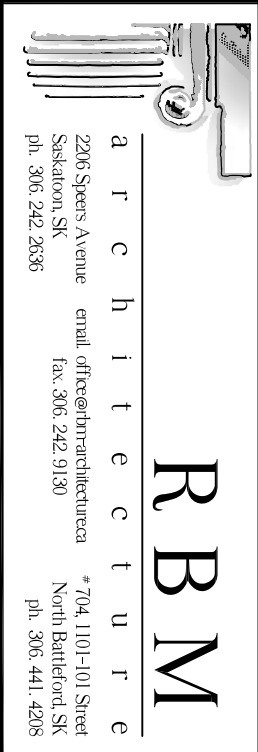


**ISSUE FOR CONSTRUCTION**

4. 2011/11/14 TENDER SUBMISSION  
 3. 2011/08/22 TENDER SUBMISSION  
 2. 2011/06/17 80% REVIEW SUBMISSION  
 1. 2011/04/04 30% REVIEW SUBMISSION  
 0. 2011/02/02 50% REVIEW SUBMISSION



CONSULTANTS:



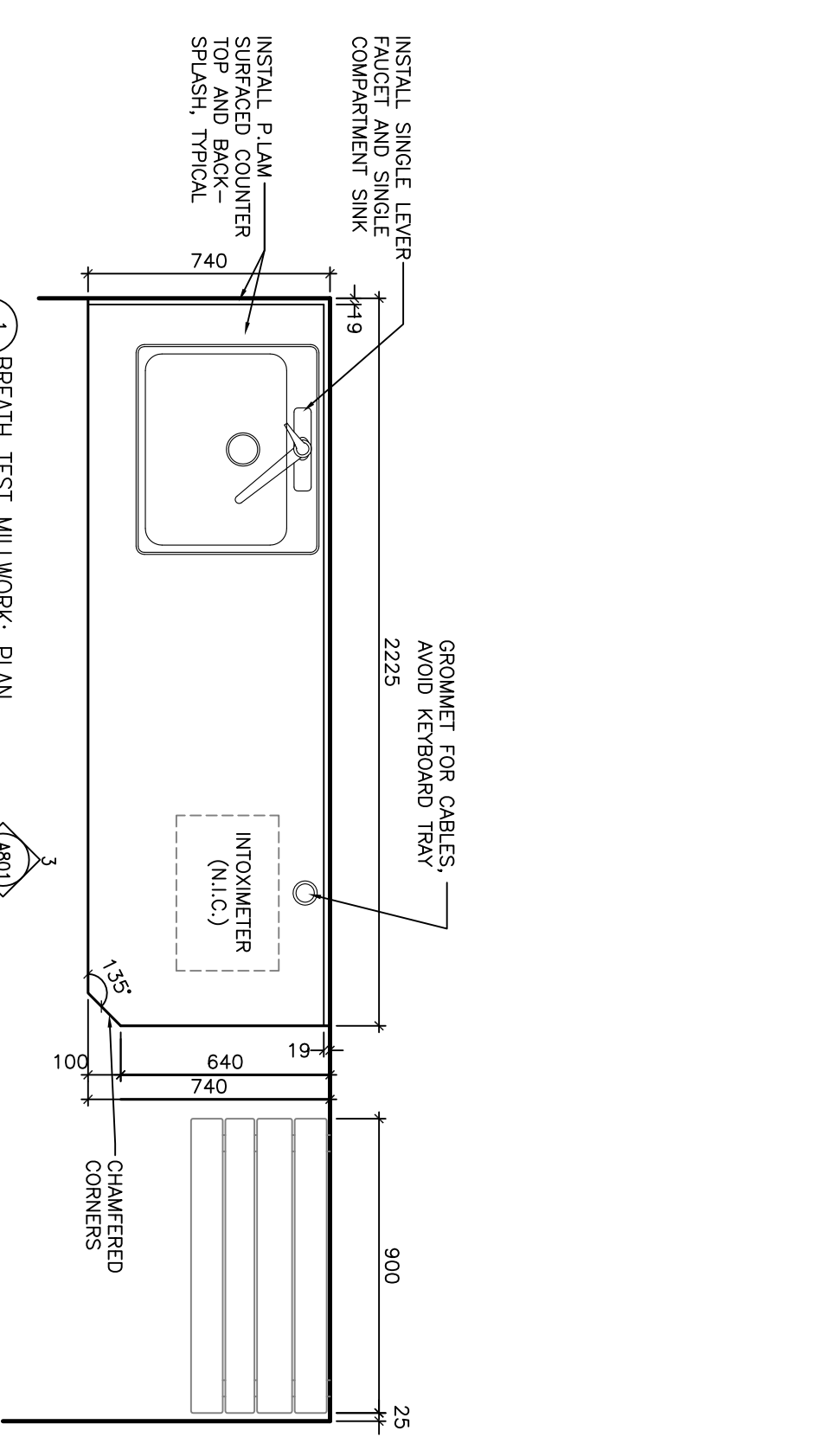
**POLICE TRANSPORTABLE HOLDING CELLS**

**MILLWORK DETAILS**

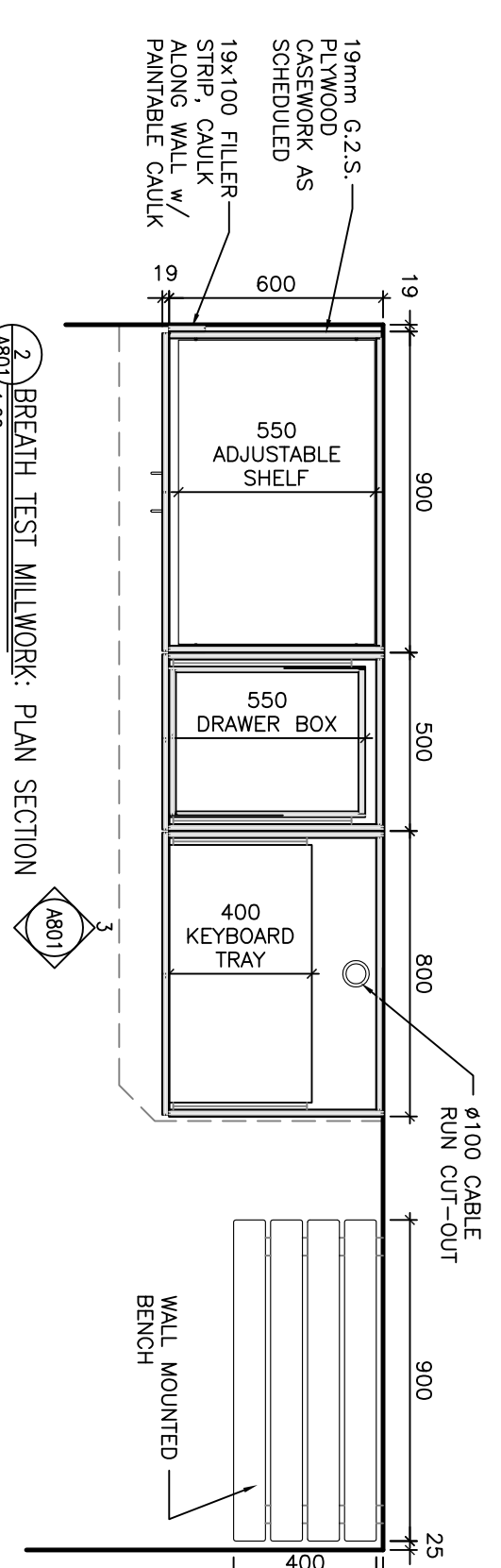
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 DATE: 2011/09/22  
 DRAWN BY: CG  
 SCALE: AS NOTED

SHEET No: 1  
 PLOT No: 1  
**A800**

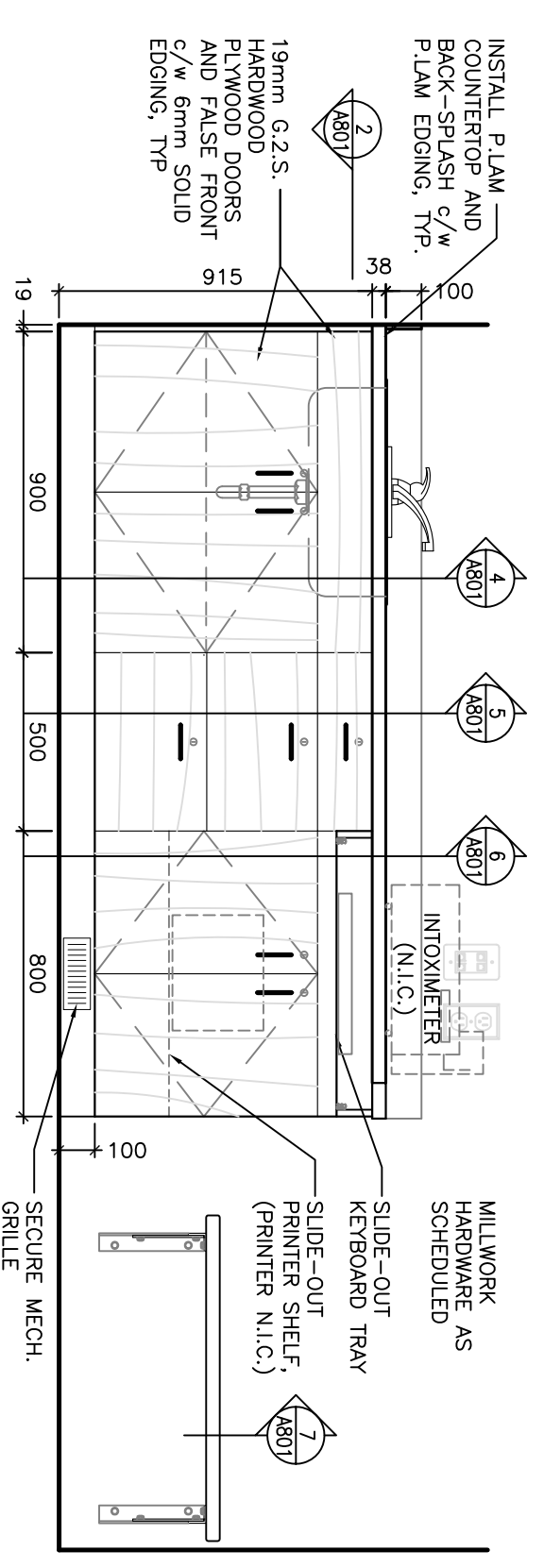




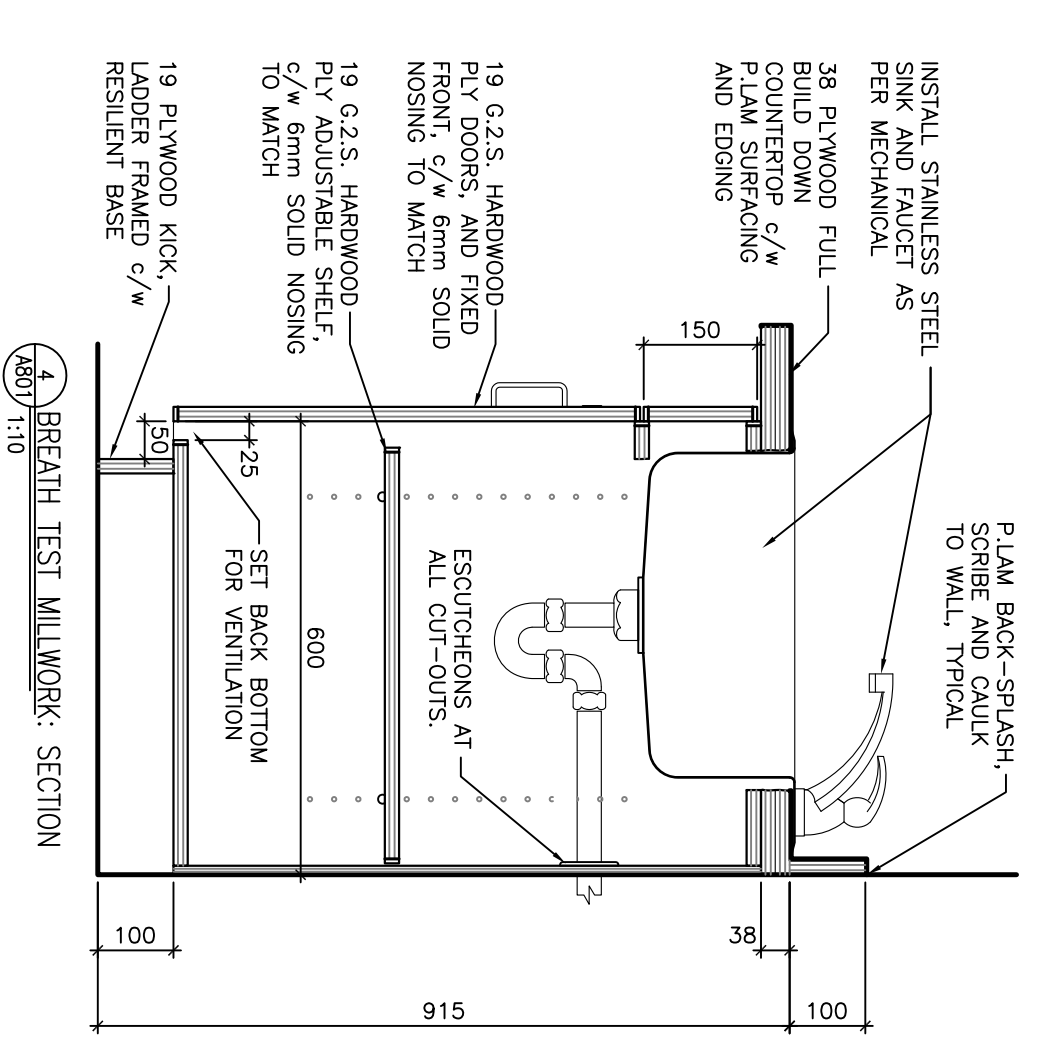
1 BREATH TEST MILLWORK: PLAN



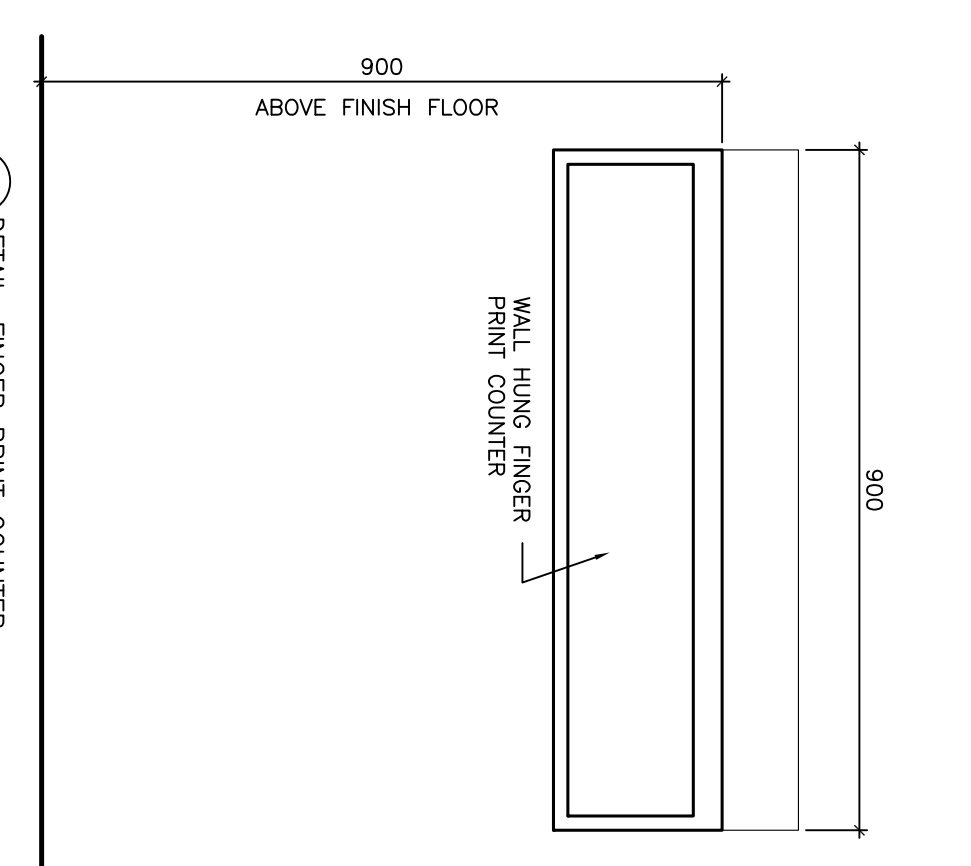
2 BREATH TEST MILLWORK: PLAN SECTION



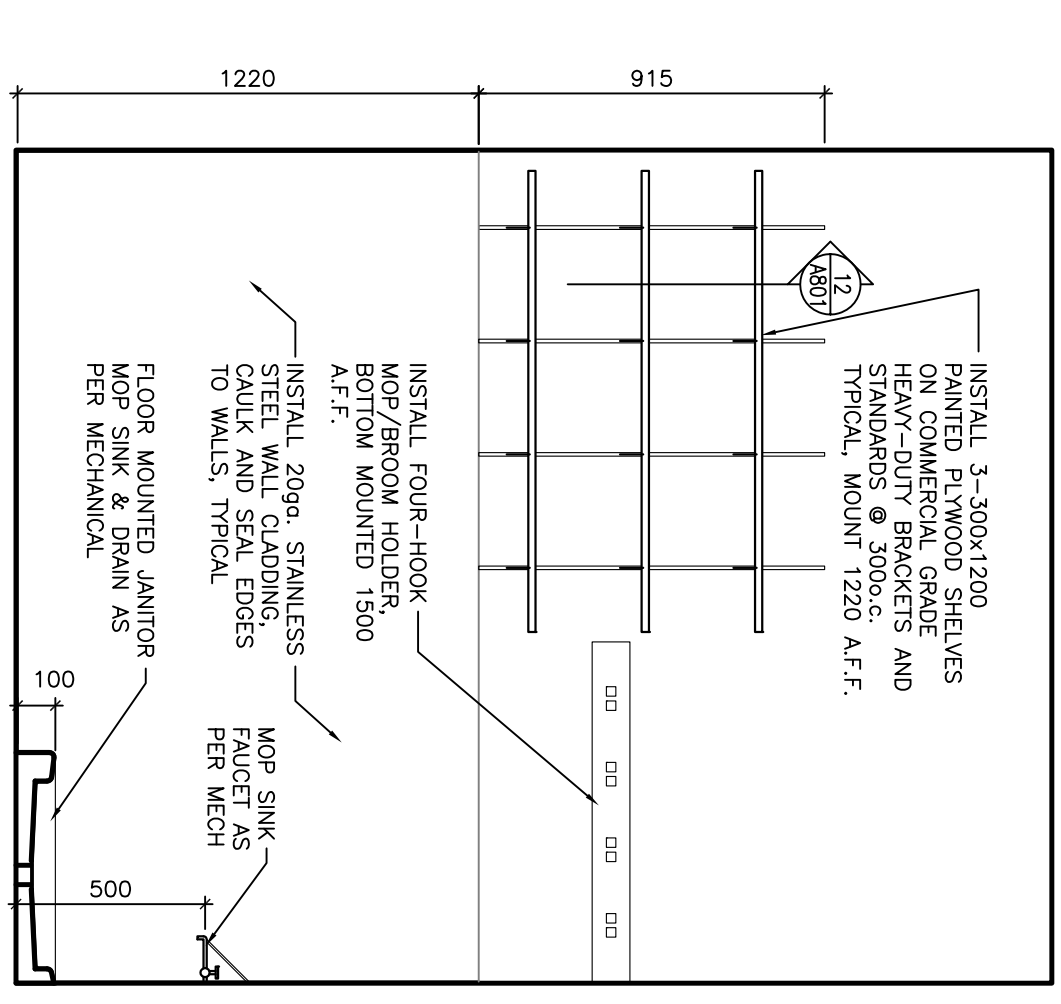
3 BREATH TEST MILLWORK: ELEVATION



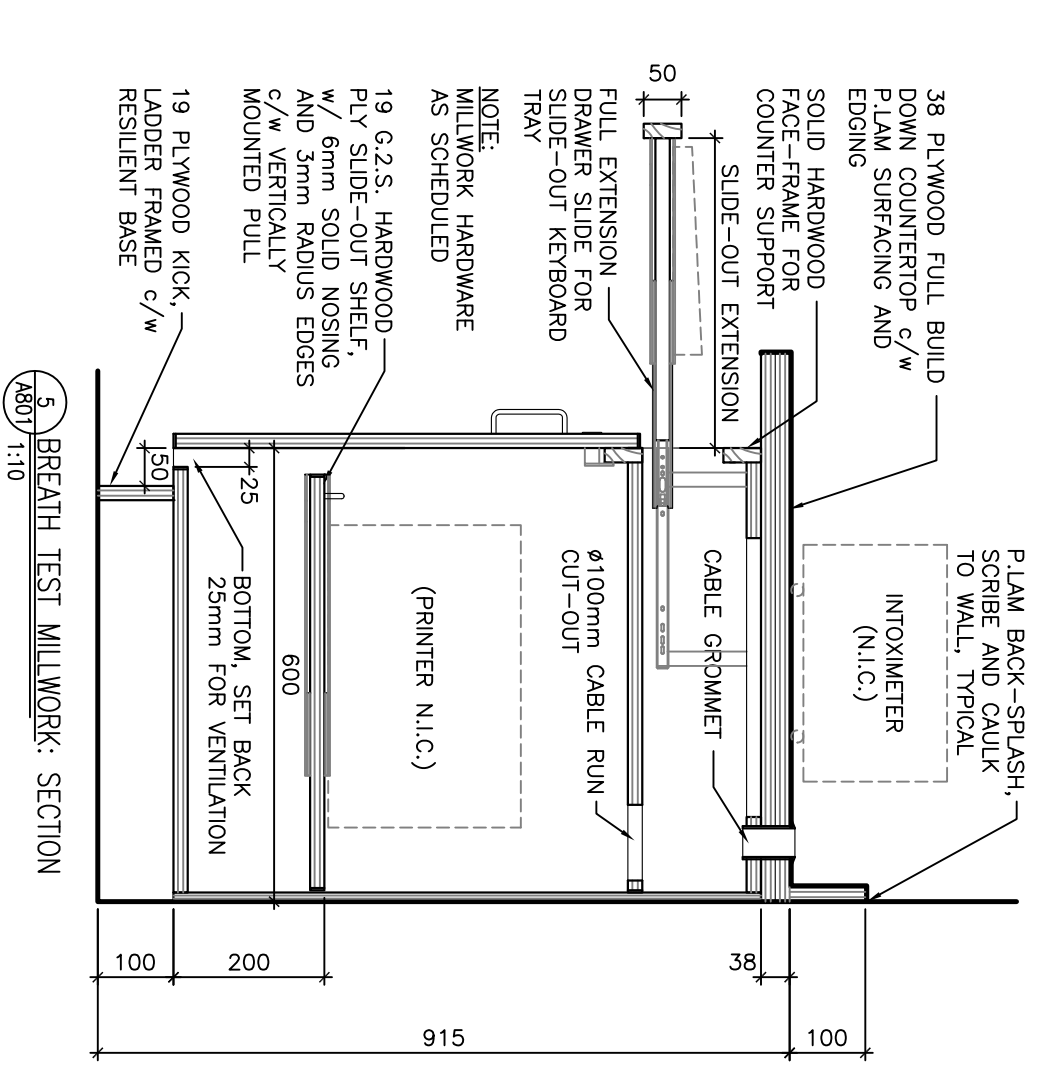
4 BREATH TEST MILLWORK: SECTION



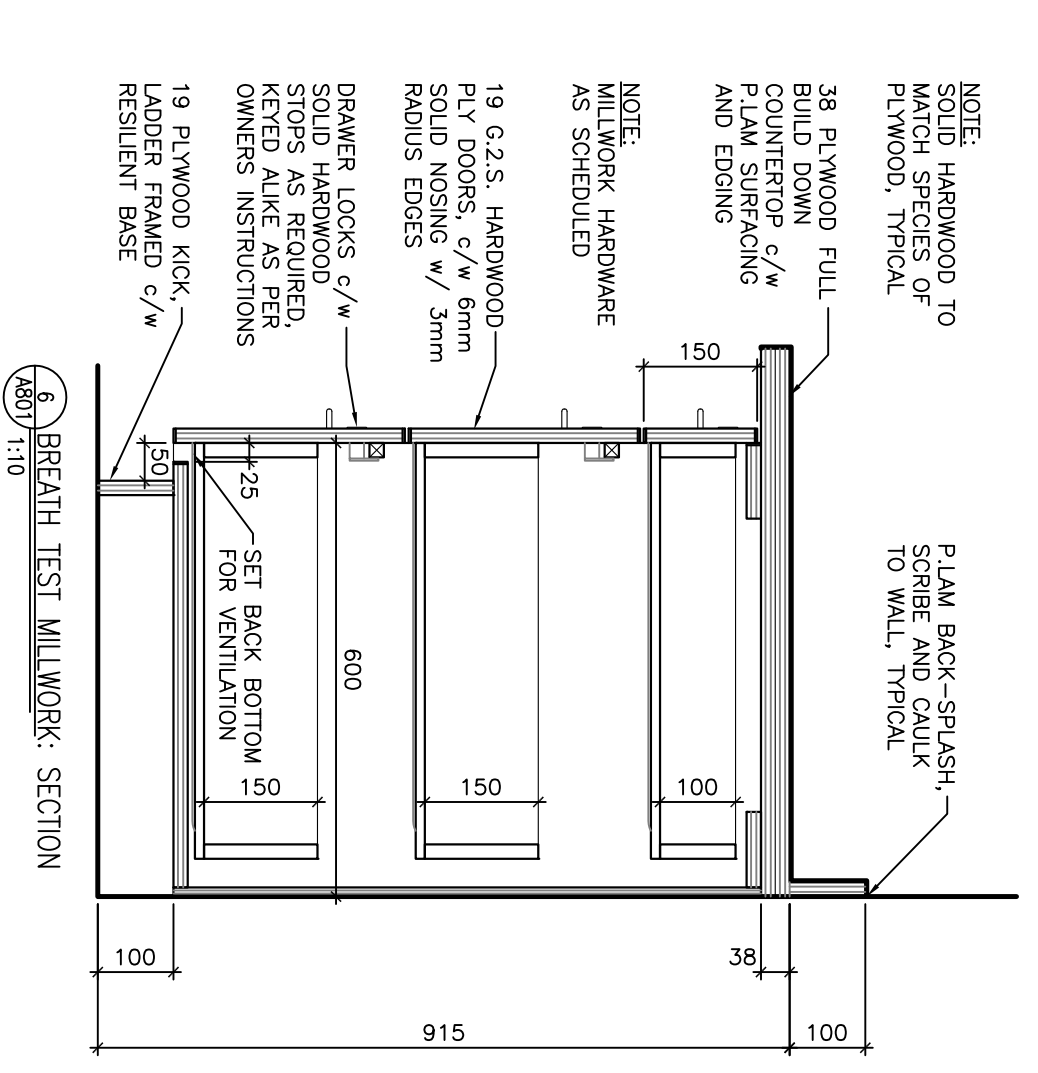
5 DETAIL: FINGER PRINT COUNTER



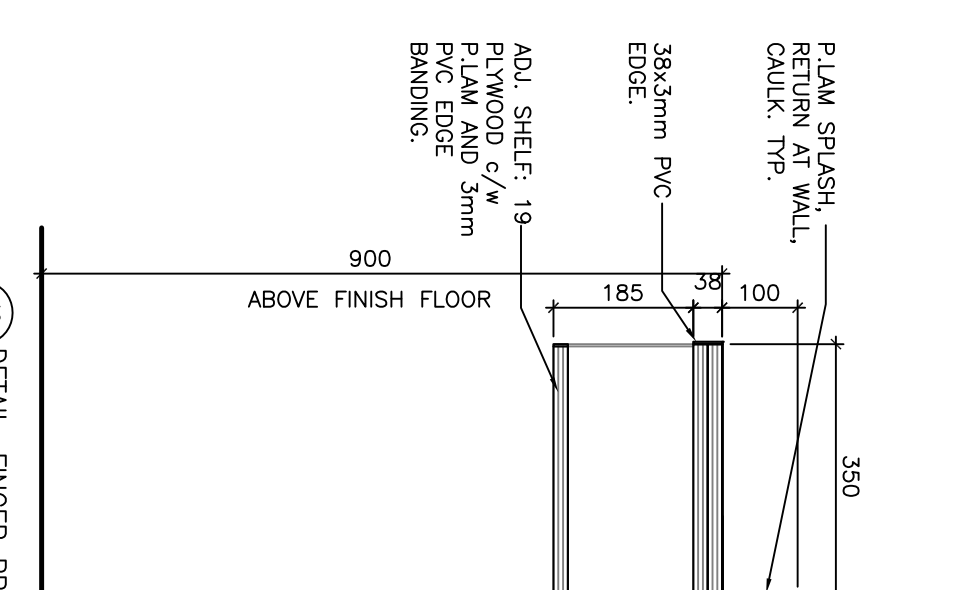
6 JANITOR EQUIPMENT: ELEVATION



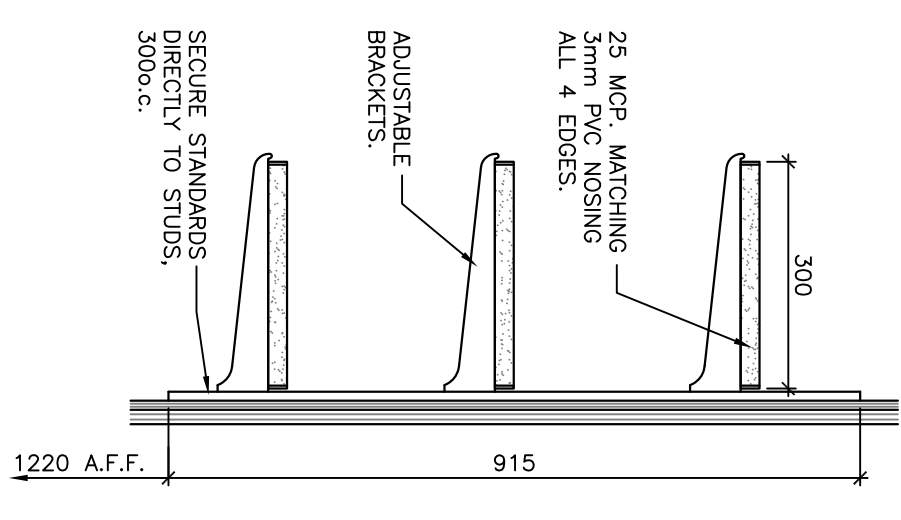
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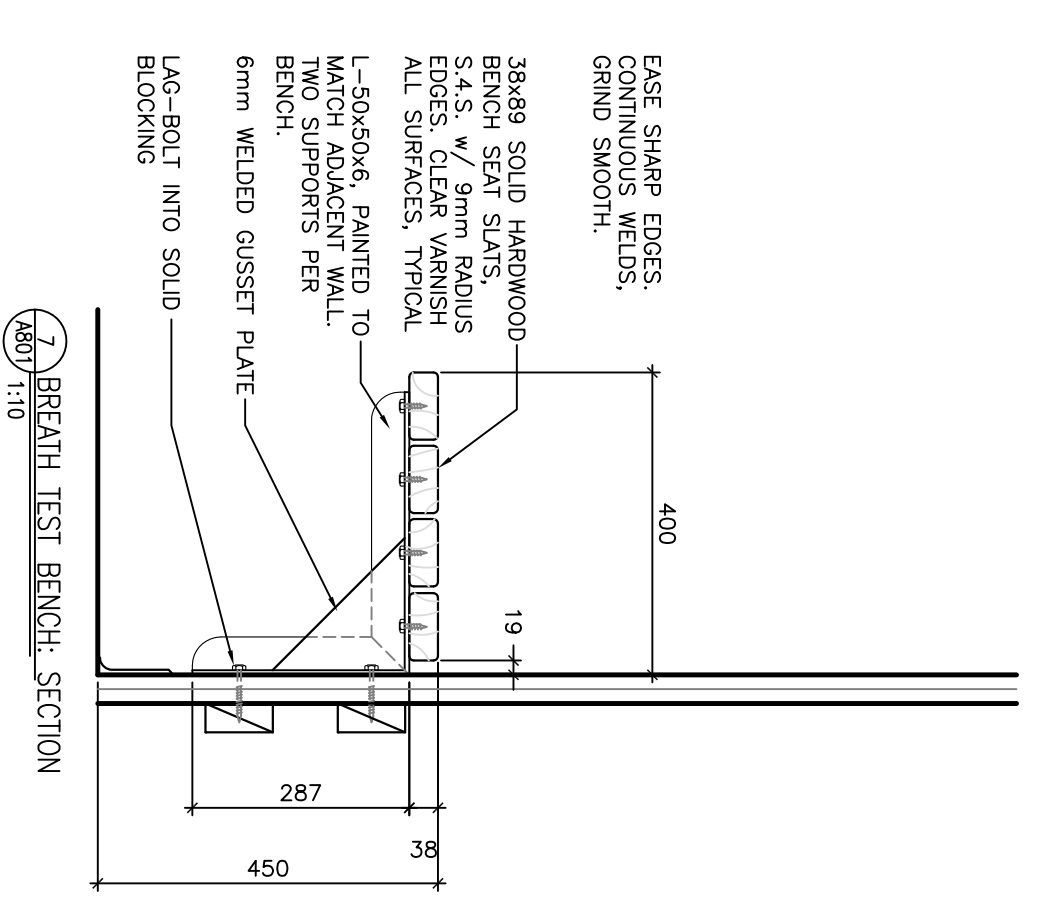
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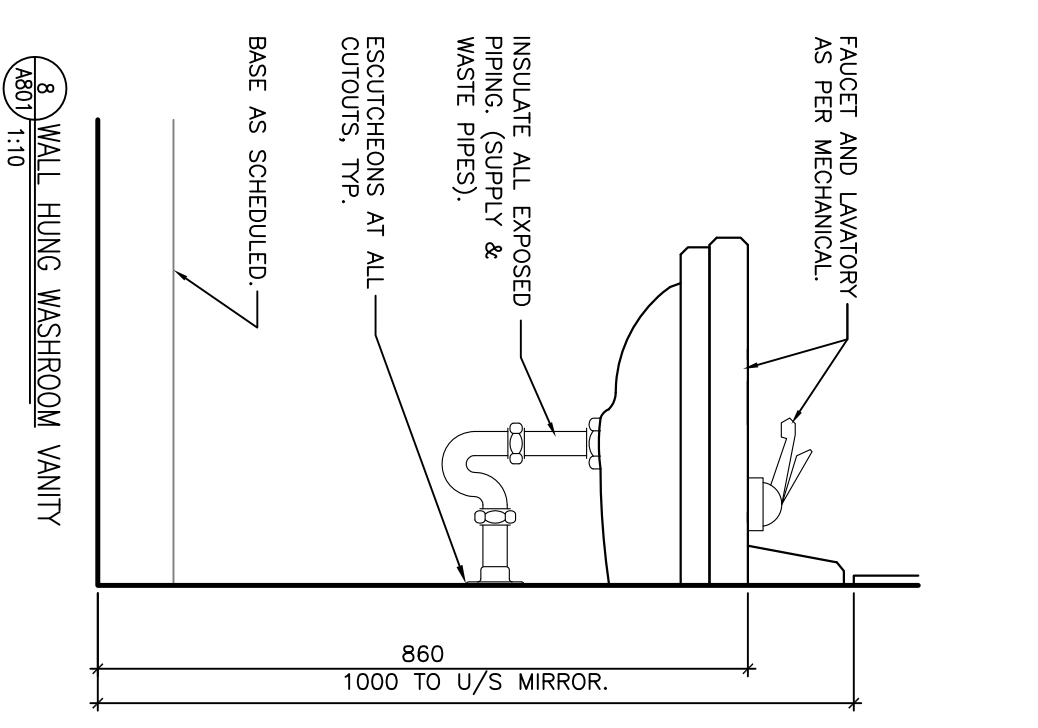
9 DETAIL: FINGER PRINT COUNTER



10 DETAIL: ADJUSTABLE SHELVES



11 BREATH TEST BENCH: SECTION



12 WALL HUNG WASHROOM VANITY

- CASEWORK:**
- CABINET CARCASS, CLEANS, AND COUNTERTOP SUPPORTS AND BRACES: 19mm G2.S PLYWOOD, ON ALL EXPOSED SURFACES
  - DRAWER BOXES: 16mm M.C.P. (GREY) C/W 3mm PVC EDGE BANDING.
  - PLASTIC LAMINATE COUNTERTOPS TO BE FULL BUILD DOWN 2-1/2" FROM PLYWOOD C/W PLASTIC LAMINATE/SOLID HARDWOOD LEANS AS PER DETAILS.
  - GUARD STATION COULMING: POX RESISTANT EPOXY COULMING GROUTING.
  - CABINET SHELVES - ADJUSTABLE CABINET: 19mm M.C.P. COGNOR 1700mm LENGTH, 25mm M.C.P. C/W 3mm PVC TIE ALL FOUR EDGES. TYPICAL.
  - SHELVES - WALL MOUNTED: 25mm M.C.P. C/W 3mm PVC W/ ELEVATIONS FOR LOCATIONS & SIZES.

**CASEWORK HARDWARE:**

- DOOR HINGES: CONCEALED THREE (3)-WAY ADJUSTABLE SELF CLOSING HINGES C/W HINGE PLATES. 125° OPENING. LIFETIME WARRANTY.
- SILENCERS: CLEAR SELF-ADHESIVE RUBBER BUMPERS. TYPICAL FOR ALL DOORS & DRAWERS.
- DRAWER SLIDES: FULL EXTENSION, SIDEWALL MOUNTED C/W BALL BEARINGS. ZINC FINISH.
- GROWERS: BLACK 45mm AS PER RICHIELEU OFFICE IMPLANTS F923.
- LOCKS: PIN-TIMBER, SATIN NICKEL, FINISH NATIONAL CABINET LOCK: C8102/C8103 TO SUIT APPLICATION. 28-0 FINISH.
- KEYS: PROVIDE TWO (2) KEYS PER LOCK. C/W MASTER. REFER TO SPECIFICATIONS FOR KEYING.
- GRABER PULLS: 100mm SATIN NICKEL 'D'-PULL AS PER RICHIELEU NS. 33203.
- SHELF PINS: ADJUSTABLE SHELVES - STEEL SUPPORT PINS. PINS INTO DRG BOND CABINET SHELVES.

**NOTES:**

- ALL MILLWORK & CABINERY CONSTRUCTION TO A.W.M.A.C. CUSTOM QUALITY GRADE, MODIFIED PER DETAILS.
- SUBMIT DUPLICATE COLOUR FINISH SAMPLES OF FINISH MATERIALS.
- SUBMIT SHOP DRAWINGS PRIOR TO ORDERING OR MANUFACTURING ANY MILLWORK, TYPICAL.
- COLORS TO BE APPROVED BY CONSULTANT PRIOR TO ORDERING ANY MATERIALS, TYPICAL.
- CONFIRM ALL SIZES ON SITE PRIOR TO MANUFACTURING.
- INSTALL ALL MILLWORK HARDWARE W/ FASTENERS AS PER MANUFACTURER'S INSTRUCTIONS, MATCHING FINISHES.
- INSTALL BLOCKING WITHIN WALLS AS REQUIRED.



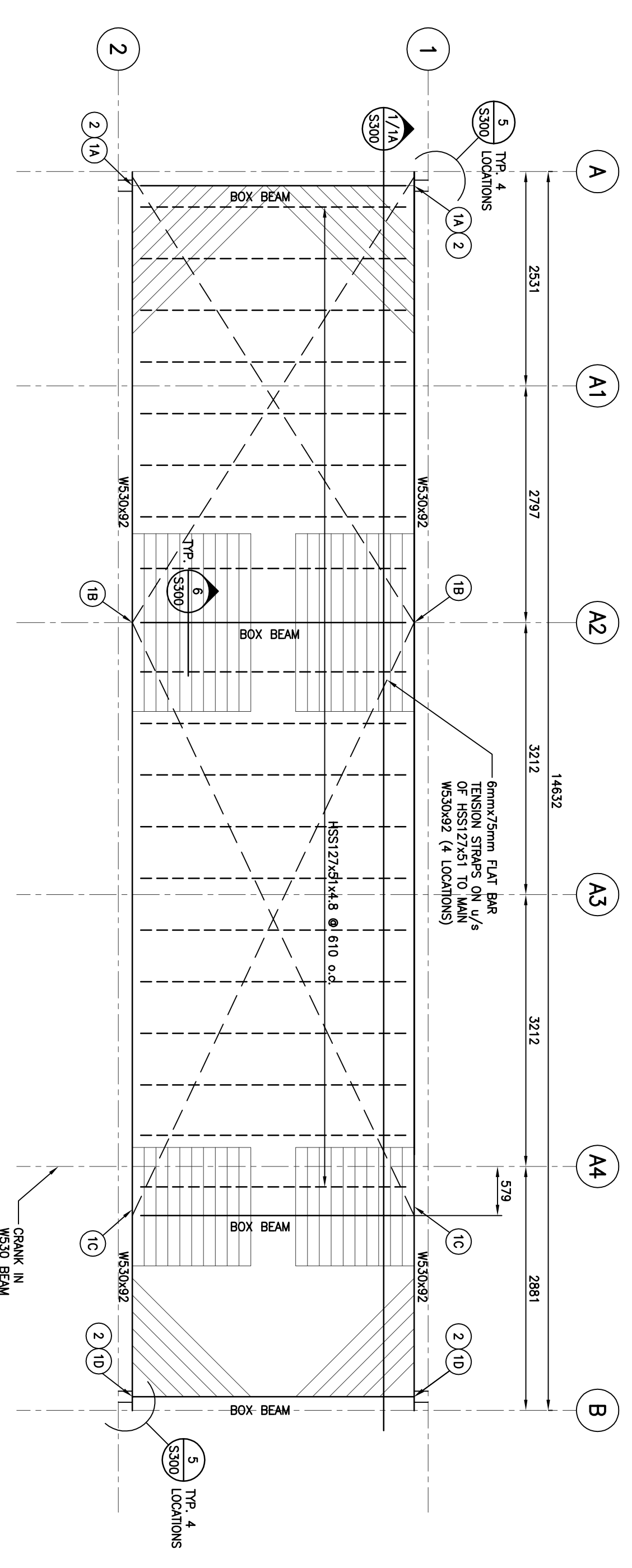
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**POLICE TRANSPORTABLE HOLDING CELLS**

**MILLWORK DETAILS**

PROJECT No: 510-10	SHEET No: PLOT No: 1
DATE: 2011/09/22	DESIGN BR: CG
SCALE: AS NOTED	<b>A801</b>



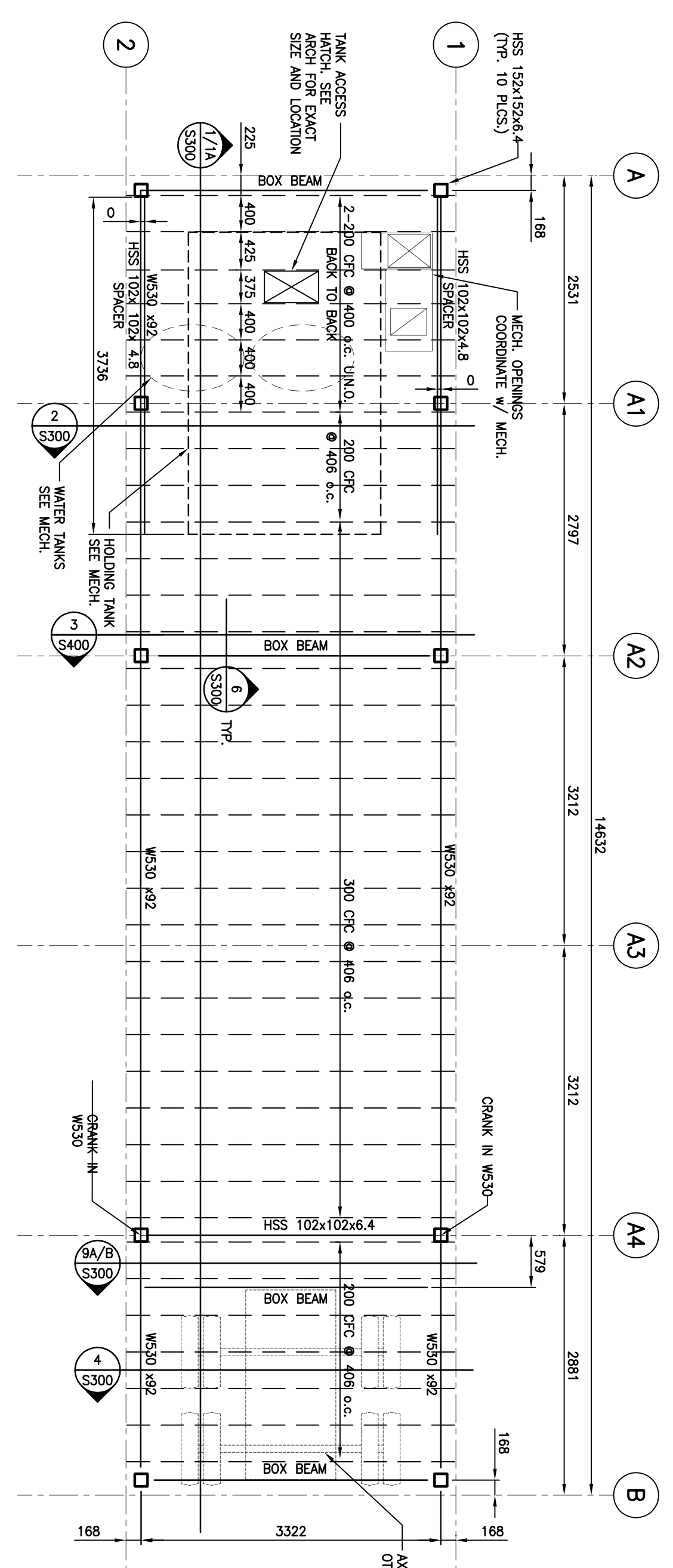
FOUNDATION PLAN -  
SINGLE UNIT

NOTE:  
1. SUPER IMPOSED DESIGN LOADS  
PARTITION DEAD LOAD = 1.0 kPa  
OCCUPANCY LIVE LOAD = 4.8 kPa  
WIND LOADING = P=PW/C<sup>2</sup>-C<sub>D</sub>P<sup>2</sup>  
W = 1.25 q<sub>h</sub> 1.00 kPa q<sub>h</sub> 0.73 kPa  
2. GIBBERING PRESSURES BASED ON MINIMUM  
GIBBERING PRESSURE OF 75 kPa. ADJUST TO  
SUIT SITE CONDITIONS AS REQUIRED.

KENNOTES

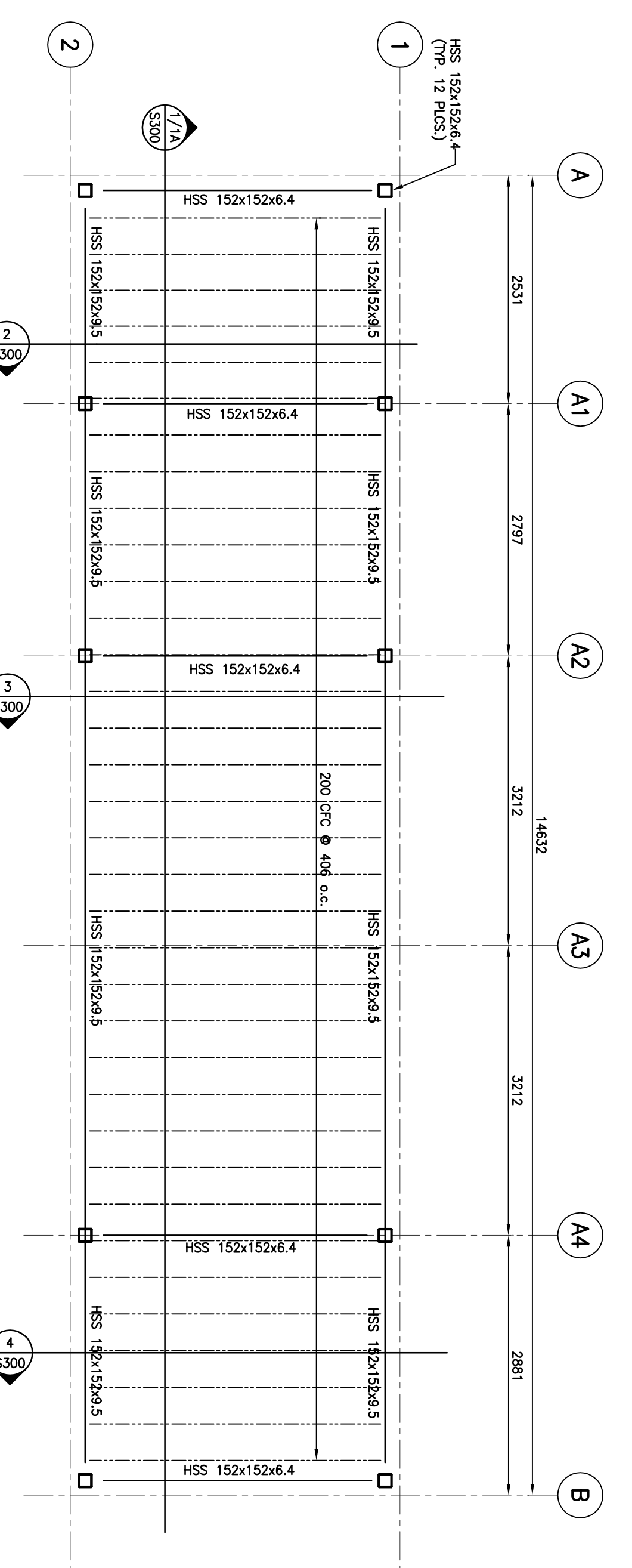
1	INSTALL FOUNDATION AT POINTS NOTED PRIOR TO USE	2	INSTALL THE-DOWN FOR SPECIFIED UPLIFT FORCES (U, N) ACCORDING TO THE SITE SPECIFIC VALUES FOR THE NATIONAL BUILDING CODE 1/59Y WIND PRESSURE (P). P < 0.72kPa, U = 0kN, NOT REQUIRED P < 1.00kPa, U = 28kN
A	90	TRAPANGLE	1500
B	220	TRAPANGLE	1500
C	135	TRAPANGLE	1400x1400
D	40	TRAPANGLE	1500

PROVIDE 10mm STAINLESS STEEL CABLE C/4 TURNBUCKLE AND 10mm EYE BOLT FROM GROUND SCREW TO ANCHOR POINTS.



MAIN FLOOR PLAN -  
TYPICAL ALL UNITS

NOTE:  
1. SUPER IMPOSED DESIGN LOADS  
PARTITION DEAD LOAD = 1.0 kPa  
OCCUPANCY LIVE LOAD = 4.8 kPa  
WIND LOADING = P=PW/C<sup>2</sup>-C<sub>D</sub>P<sup>2</sup>  
W = 1.25 q<sub>h</sub> 1.00 kPa q<sub>h</sub> 0.73 kPa  
2. GIBBERING PRESSURES BASED ON MINIMUM  
GIBBERING PRESSURE OF 75 kPa. ADJUST TO  
SUIT SITE CONDITIONS AS REQUIRED.



ROOF PLAN -  
TYPICAL ALL UNITS

NOTE:  
1. SUPER IMPOSED DESIGN LOADS  
SNOW LOADING = 7.2 kPa  
BASED ON AVERAGE SNOW DENSITY OF 3.0kN/m<sup>3</sup> TOTAL SNOW SHOULD BE LIMITED TO A MAXIMUM OF 2.4m  
WIND LOADING = P=PW/C<sup>2</sup>-C<sub>D</sub>P<sup>2</sup>  
W = 1.25 q<sub>h</sub> 1.00 kPa  
2. HSS FRAME TO BE FULLY WELDED  
CONNECTIONS TO CONCRETE  
CONNECTIONS AT ALL

FOUNDATION PLAN -  
MULTIPLE PLANS

NOTE:  
1. SUPER IMPOSED DESIGN LOADS  
PARTITION DEAD LOAD = 1.0 kPa  
OCCUPANCY LIVE LOAD = 4.8 kPa  
WIND LOADING = P=PW/C<sup>2</sup>-C<sub>D</sub>P<sup>2</sup>  
W = 1.25 q<sub>h</sub> 1.00 kPa q<sub>h</sub> 0.73 kPa  
2. GIBBERING PRESSURES BASED ON MINIMUM  
GIBBERING PRESSURE OF 75 kPa. ADJUST TO  
SUIT SITE CONDITIONS AS REQUIRED.

KENNOTES

1	INSTALL FOUNDATION AT POINTS NOTED PRIOR TO USE	2	INSTALL THE-DOWN FOR SPECIFIED UPLIFT FORCES (U, N) ACCORDING TO THE SITE SPECIFIC VALUES FOR THE NATIONAL BUILDING CODE 1/59Y WIND PRESSURE (P). P < 0.50kPa, U = 0kN, NOT REQUIRED P < 1.00kPa, U = 28kN
A	90	TRAPANGLE	1500
B	220	TRAPANGLE	1400x1400
D	40	TRAPANGLE	1500

PROVIDE 10mm STAINLESS STEEL CABLE C/4 TURNBUCKLE AND 10mm EYE BOLT FROM GROUND SCREW TO ANCHOR POINTS.

STRUCTURAL GENERAL NOTES

General Specifications, National Building Code of Canada, 2005.  
Contractor to read Structural Drawings in conjunction with Architectural, Mechanical and Electrical and Equipment Manufacturer's Drawings.  
Unless noted otherwise, typical details apply throughout.  
Confirm size and location of openings with Mechanical and Electrical Contractors.  
Report any discrepancies to Consultant before proceeding. Refer to each drawing for related notes.

FOUNDATIONS

1. See plans for locations and requirements.  
2. Structural steel  
3. All framing members are to be made from cold-formed steel  
4. Cold Formed Metal Joists  
5. All framing members are to be made from cold-formed steel  
6. All framing members are to be made from cold-formed steel  
7. All framing members are to be made from cold-formed steel

STEEL

1. All framing members are to be made from cold-formed steel  
2. All framing members are to be made from cold-formed steel  
3. All framing members are to be made from cold-formed steel

WELDS

1. All framing members are to be made from cold-formed steel  
2. All framing members are to be made from cold-formed steel  
3. All framing members are to be made from cold-formed steel

CONNECTIONS

1. All framing members are to be made from cold-formed steel  
2. All framing members are to be made from cold-formed steel  
3. All framing members are to be made from cold-formed steel

PAINTS

1. All framing members are to be made from cold-formed steel  
2. All framing members are to be made from cold-formed steel  
3. All framing members are to be made from cold-formed steel

FINISHES

1. All framing members are to be made from cold-formed steel  
2. All framing members are to be made from cold-formed steel  
3. All framing members are to be made from cold-formed steel

GENERAL NOTES

1. All framing members are to be made from cold-formed steel  
2. All framing members are to be made from cold-formed steel  
3. All framing members are to be made from cold-formed steel

1 2011/11/14  
0 2011/08/17

ISSUED FOR CONSTRUCTION  
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SCALE:

CLIENT  
Government of Canada

CONSULTANTS  
GENIVAR

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R B M  
2265 York Avenue  
Mississauga, Ontario L4X 1L7  
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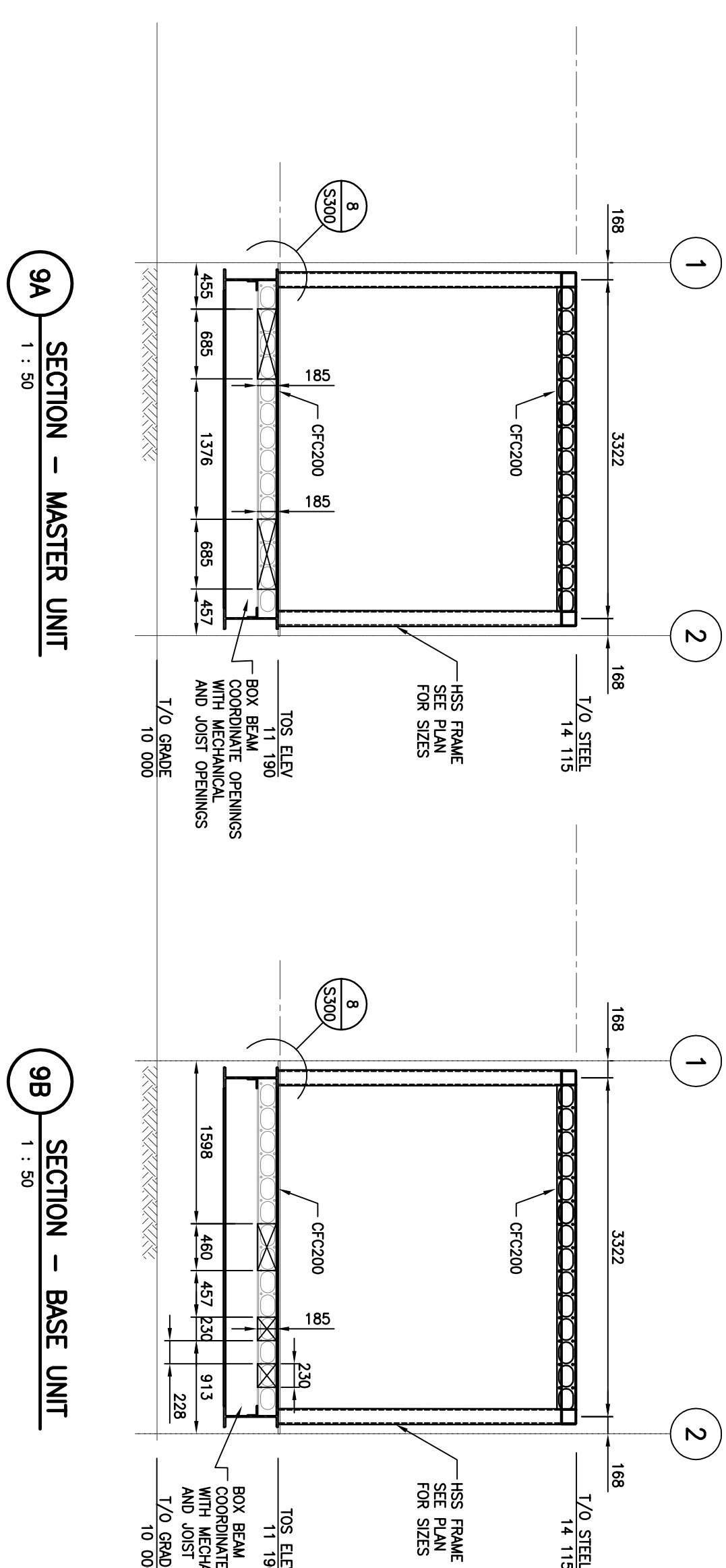
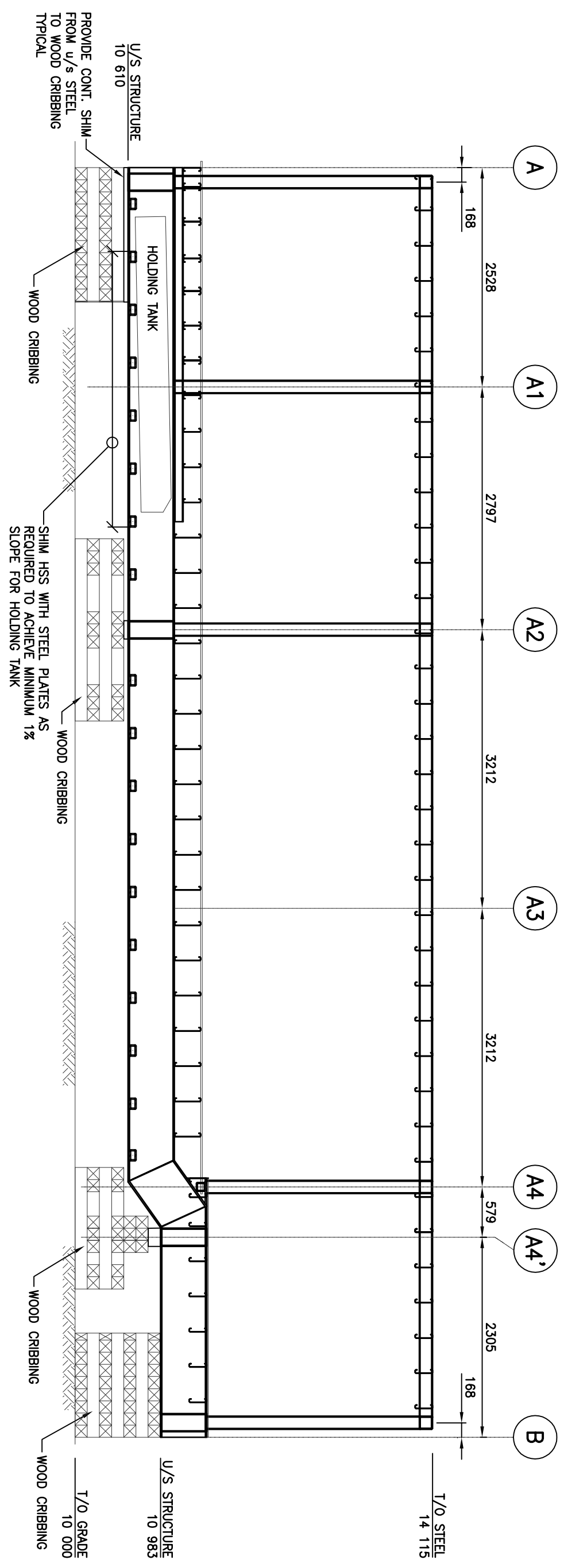
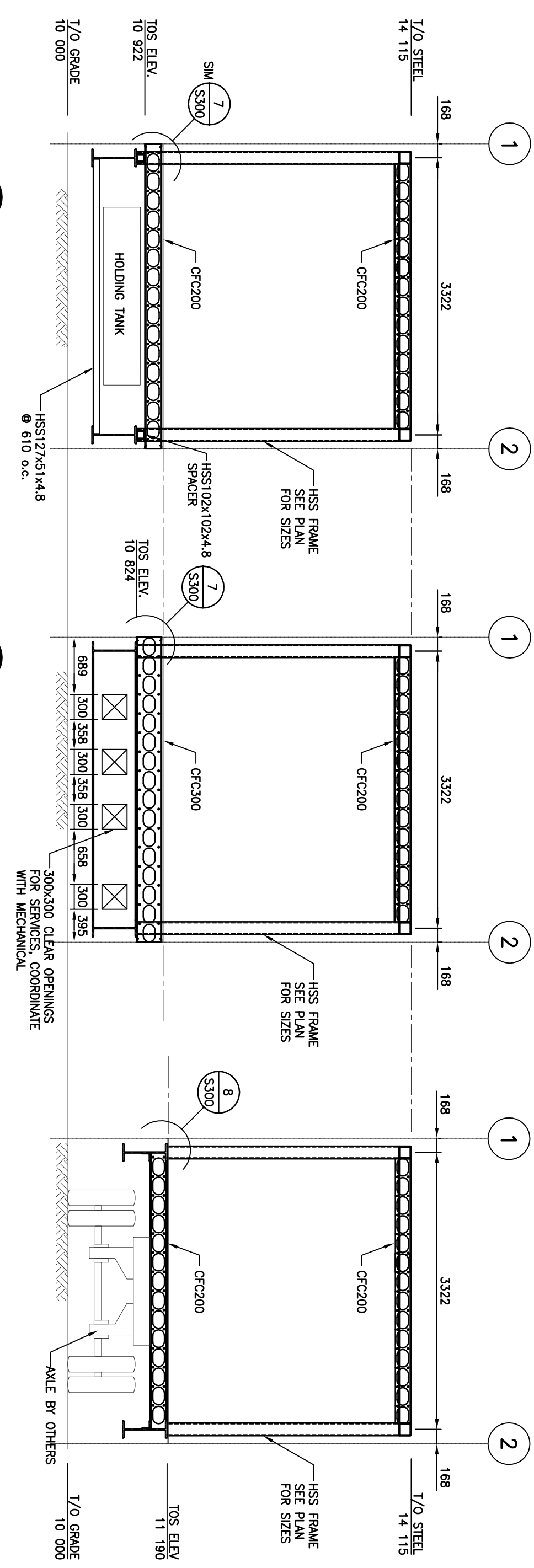
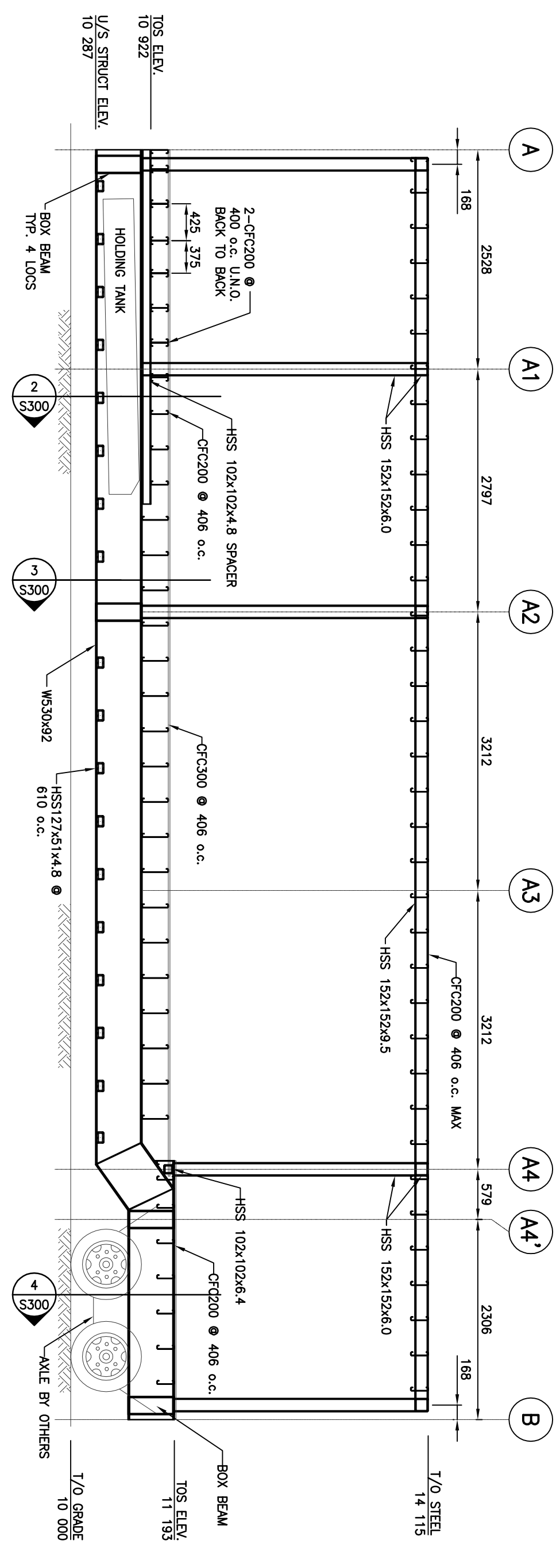
PROJECT:  
POLICE TRANSPORTABLE HOLDING CELLS

DRAWING:  
FLOOR PLANS ROOF PLANS SECTIONS

PROJECT No: 510-10  
DATE: 2011/08/05  
DRAWN BY: AC  
SCALE: AS NOTED

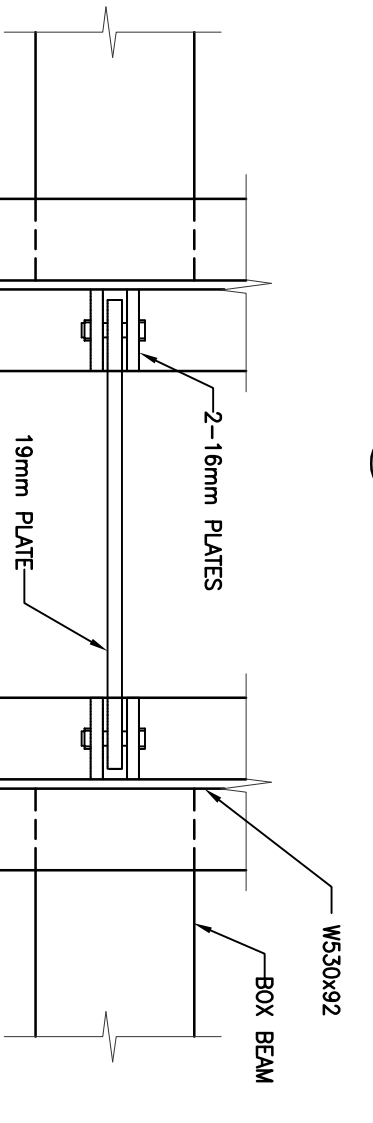
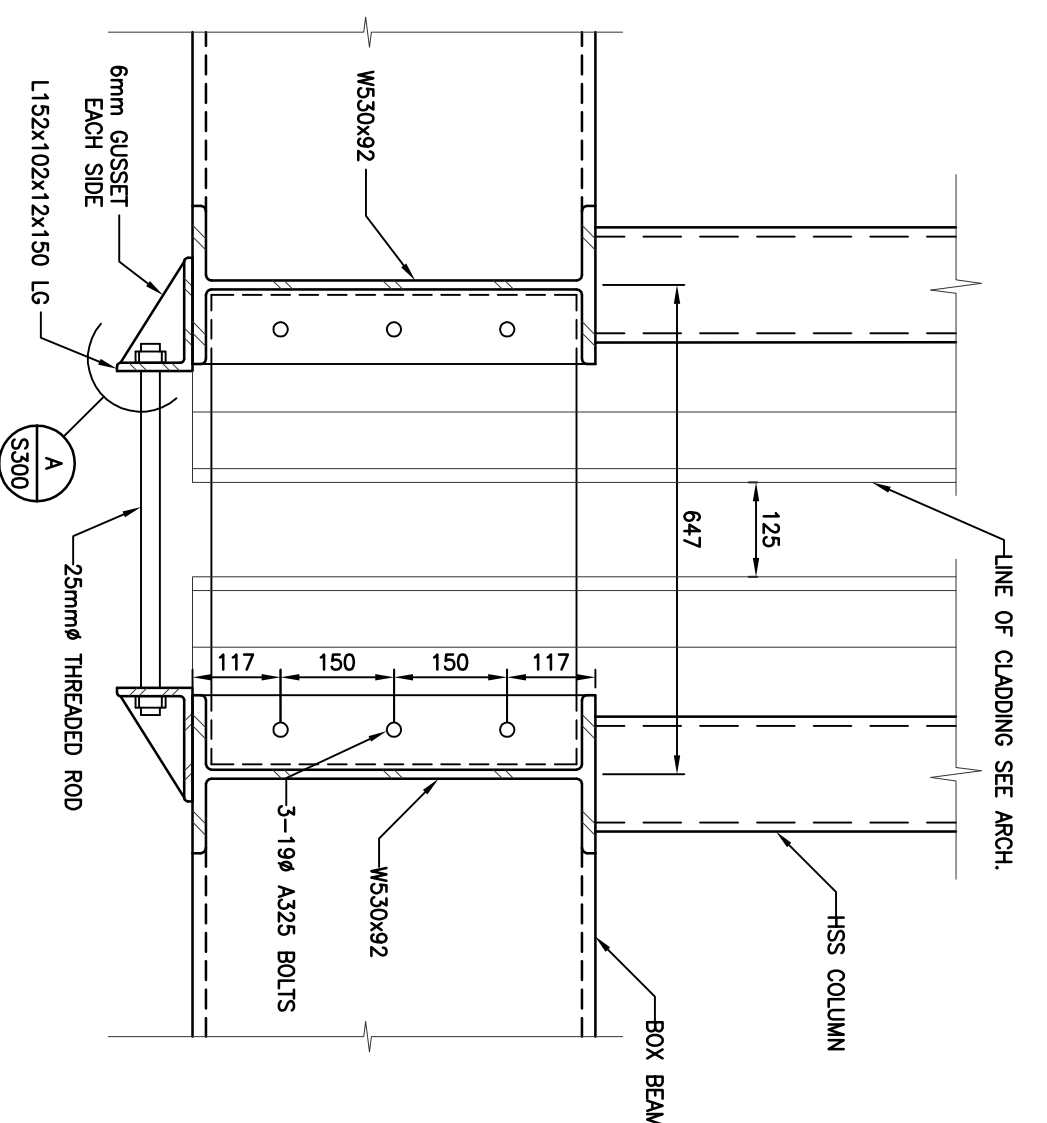
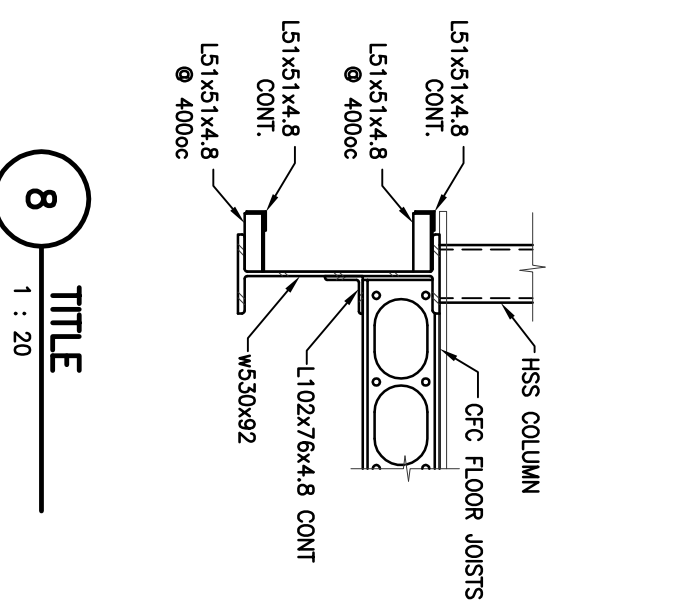
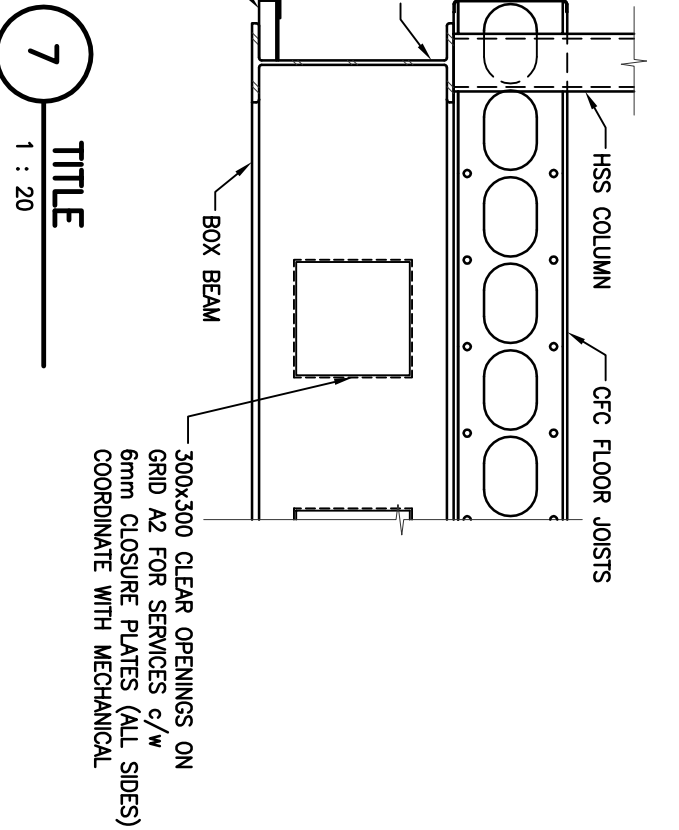
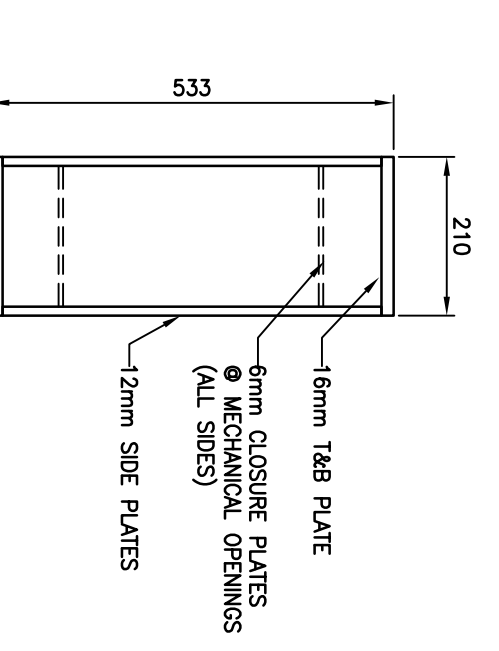
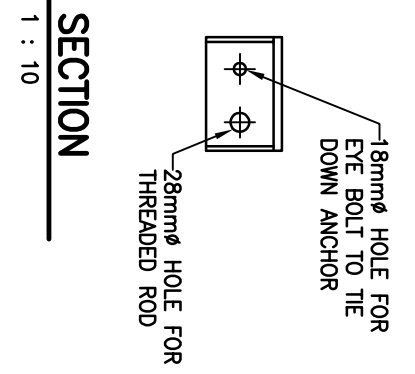
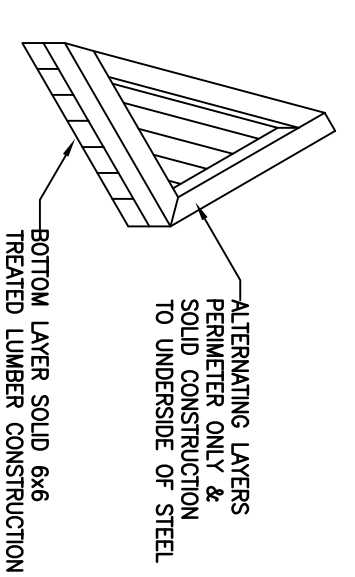
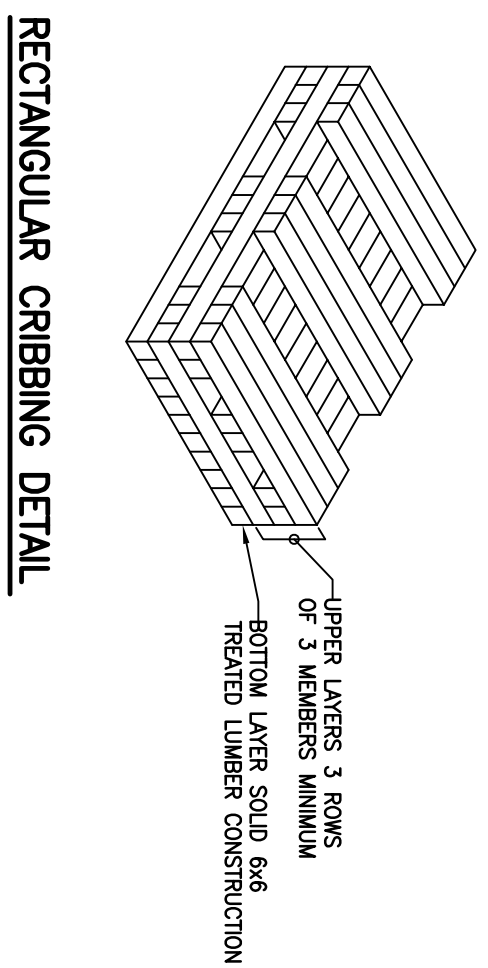
SHEET No: S200  
PLOT No: 1





**1A SECTION - DEPLOYMENT**  
1 : 50

NOTE:  
1. BOX BEAMS ON GROSS A & A2  
TO BE FABRICATED WITH OPENINGS IN WEB  
TO SUIT MECHANICAL.



**5 SECTION**  
1 : 10

**RBM**  
ARCHITECTURE  
2205 Spence Avenue  
Suite 118  
Vancouver, BC V6J 4S2  
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Tel: (604) 682-4223  
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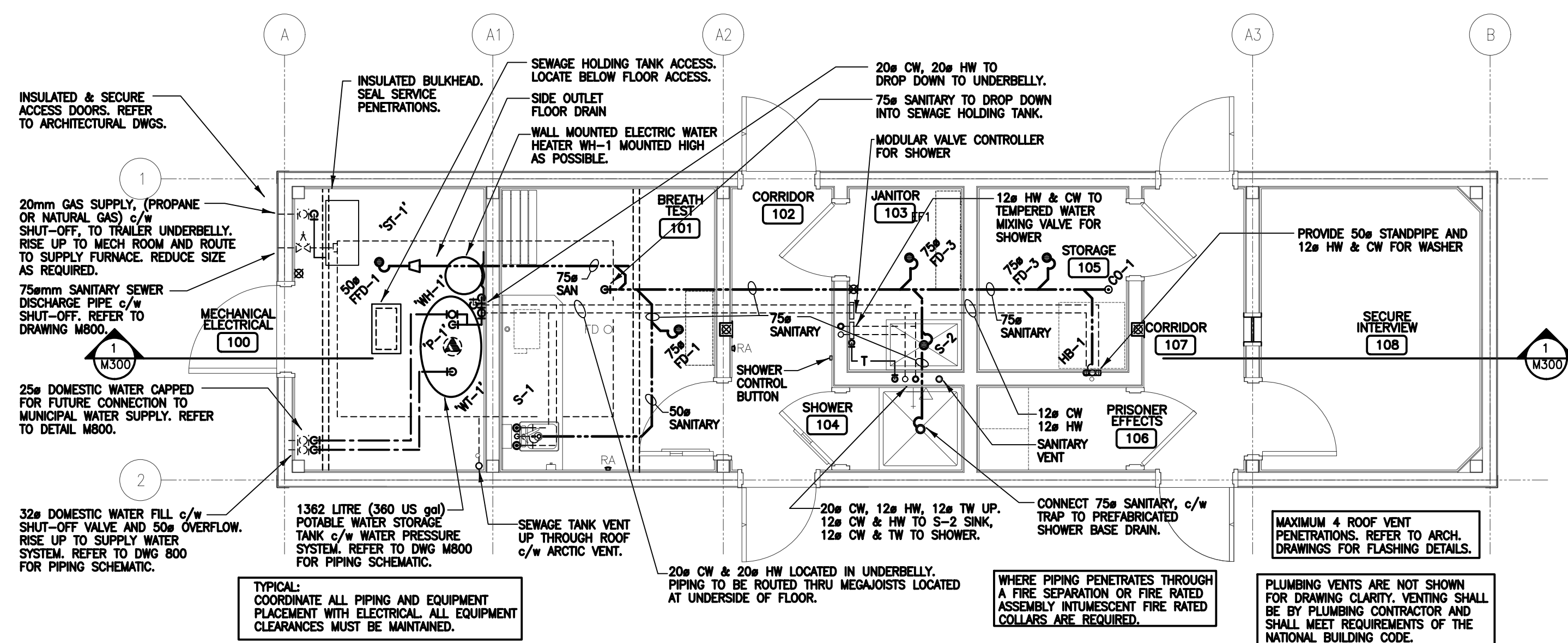
**GENIVAR**  
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VANCOUVER, BC V6V 2G3  
TEL: (604) 465-4223  
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PROFESSIONAL ENGINEER  
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REGISTERED PROFESSIONAL ENGINEER  
MEMBER OF THE SOCIETY OF PROFESSIONAL ENGINEERS AND GEOTECHNICAL ENGINEERS OF CANADA  
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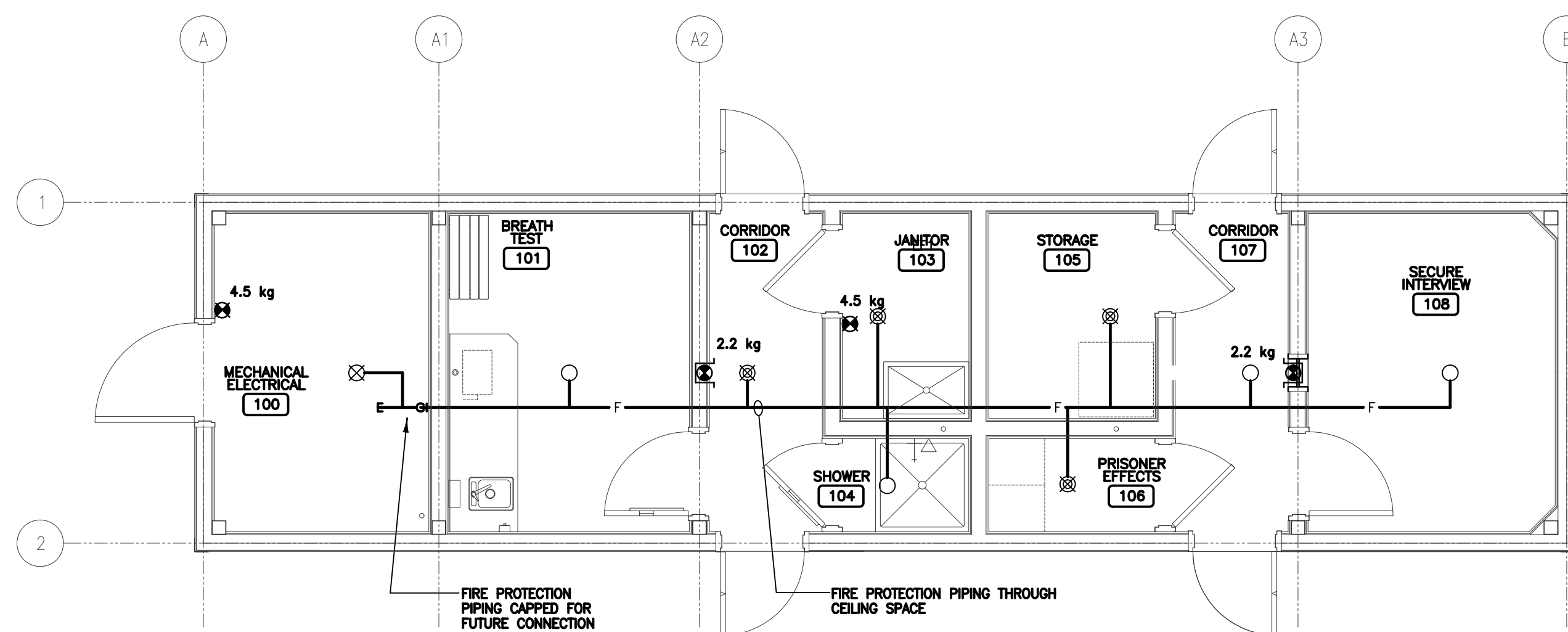
1 2011/11/14  
1 2011/08/17  
ISSUED FOR CONSTRUCTION  
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**SECTIONS & DETAILS**  
PROJECT No: 510-10  
DATE: 2011/09/05  
DRAWN BY: AC  
SCALE: AS NOTED  
SHEET No: S300  
PLOT No: 1

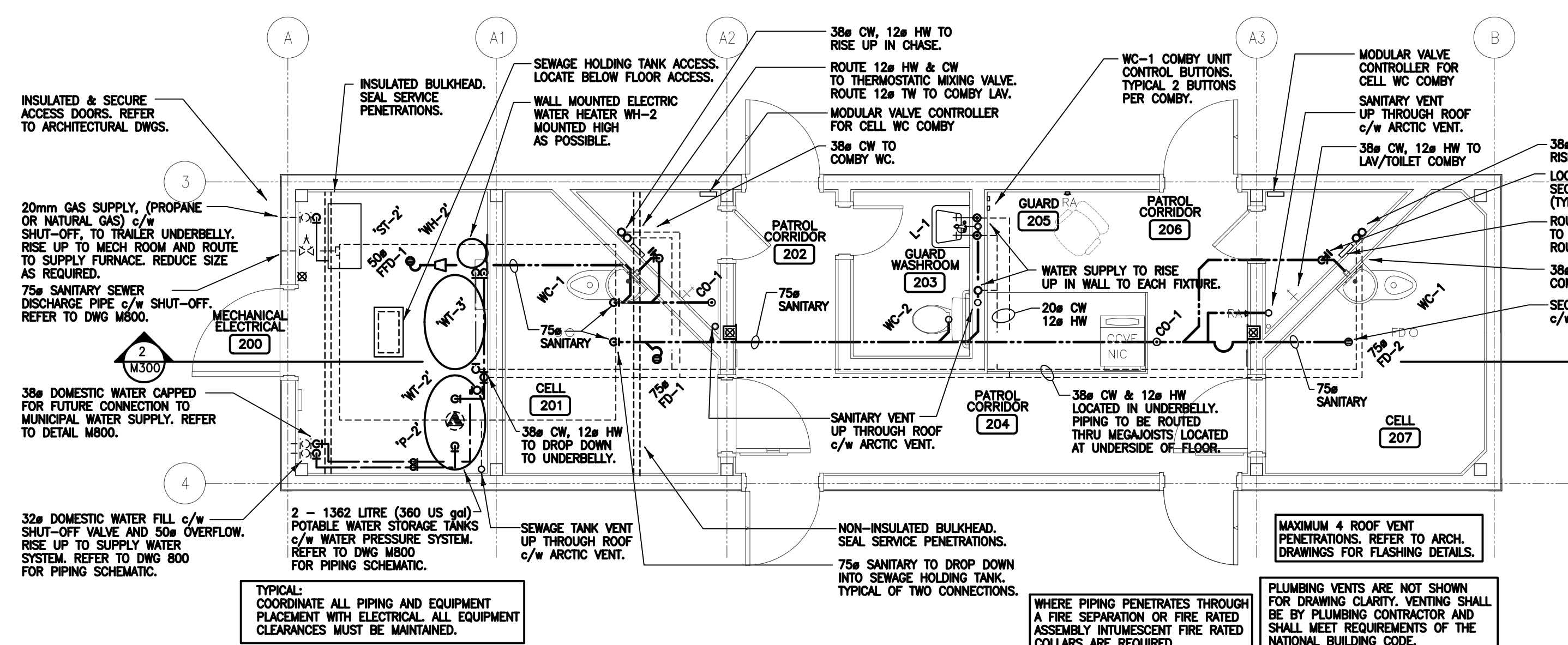
**POLICE TRANSPORTABLE HOLDING CELLS**



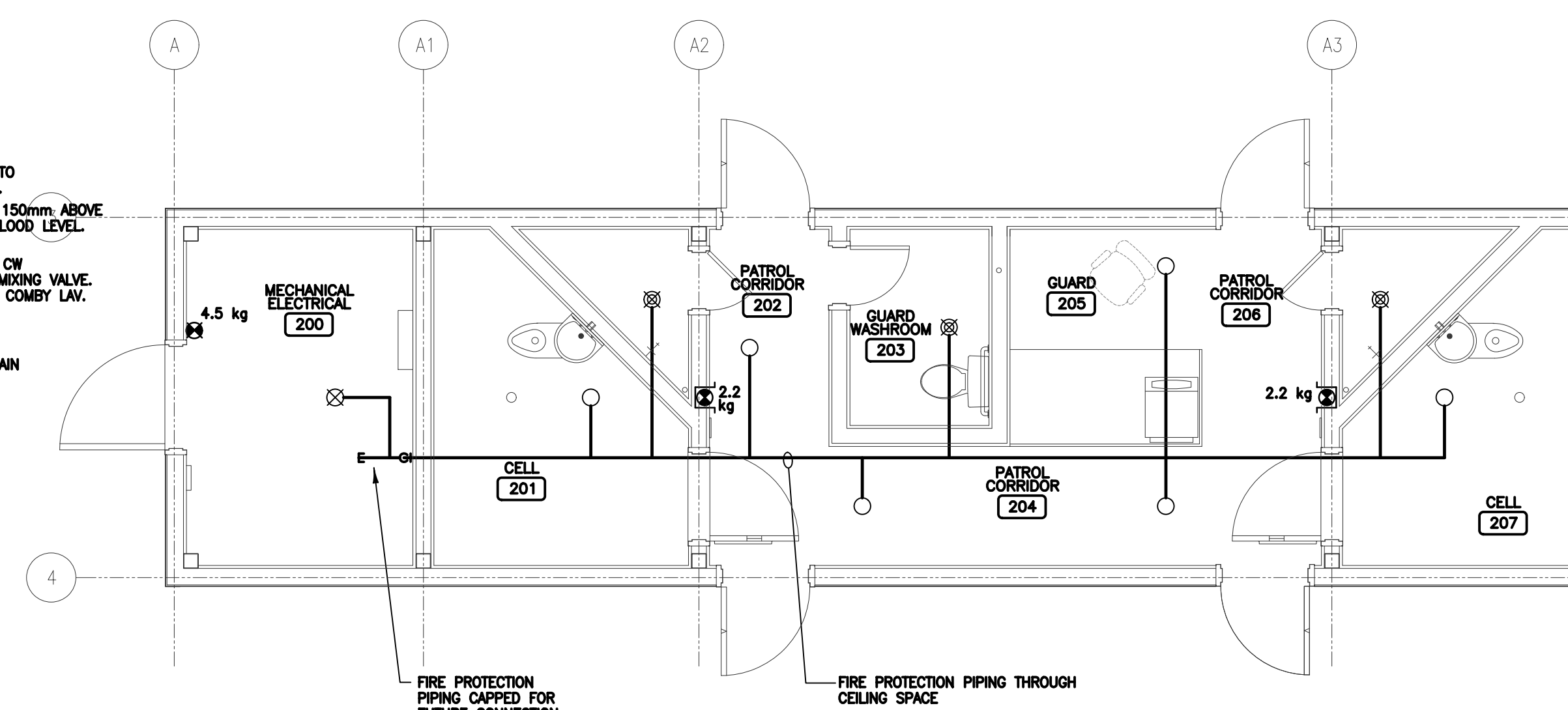
1 MASTER UNIT: PLUMBING  
1:50



3 MASTER UNIT: FIRE PROTECTION  
1:50



2 BASE UNIT: PLUMBING  
1:50



4 BASE UNIT: FIRE PROTECTION  
1:50

LEGEND

--- SANITARY SEWER	□ SUPPLY/FRESH AIR DUCT UP/DOWN	○ INSTITUTIONAL PENDENT QUICK RESPONSE SPRINKLER HEAD
-C- CONDENSATE DRAINAGE	□ RETURN/EXHAUST DUCT UP/DOWN	⊠ UPRIGHT SPRINKLER HEAD
-C- DOMESTIC COLD WATER	○ CIRCULAR DUCT OR FLUE VENT	○ PENDENT SPRINKLER HEAD
-H- DOMESTIC HOT WATER	⊠ EXHAUST FAN	⊠ Kg TRI-CLASS (ABC) DRY CHEMICAL FIRE EXTINGUISHER IN A CABINET - SIZE AS NOTED
-T- TEMPERED WATER	⊠ THERMOSTAT	⊠ Kg TRI-CLASS (ABC) DRY CHEMICAL FIRE EXTINGUISHER c/w WALL BRACKETS - SIZE AS NOTED
-G- GAS - NATURAL GAS OR PROPANE	⊠ SPEED CONTROLLER	
-R- REDUCER	⊠ FIRE DAMPER	
-    FLOOR CLEAN OUT	⊠ MOTORIZED DAMPER	
-    FLOOR CLEAN OUT	⊠ BACKDRAFT DAMPER	
-P- P-TRAP	⊠ SUPPLY/RETURN AIR GRILLE/DIFFUSER	
-FD- FLOOR DRAIN - TYPE	⊠ INDICATES DIRECTION OF FLOW	
-T- TAPS/FAUCETS	⊠ BALANCING DAMPER w/ QUADRANT POSITION LOCK	
-U- UNION	⊠ TURNING VANES	
-P- PLUG (GAS) VALVE	⊠ INDICATES DUCT LINED WITH 1 INCH THK. INTERNAL ACOUSTIC INSULATION. CLEAR INSIDE DIMENSION SHOWN.	
-B- BALL VALVE		
-CB- CIRCUIT BALANCING VALVE		
-G- GLOBE VALVE		
-C- CHECK VALVE		
-B- BUTTERFLY VALVE		
-G- GATE VALVE		

FIXTURE	SERVICE			
	DCW	DHW	DTW	SAN VENT
WATER CLOSET (TANK)	12	---	---	75 38
SECURE WATER CLOSET/LAVATORY COMBO - WATER CLOSET	38	---	---	75 38
SECURE WATER CLOSET/LAVATORY COMBO - LAVATORY	12	---	12	38 32
LAVATORY	12	12	---	32 32
SINK	12	12	---	38 38
SHOWER	12	---	12	50 38
JANITORS SINK	12	12	---	75 38
CLOTHES WASHER	12	12	---	50 38
75mm FLOOR DRAIN	---	---	---	75 38

CONSTRUCTION NORTH MAY DIFFER FROM THAT OF TRUE NORTH. REFER TO SITE PLANS FOR CONFIGURATIONS AND ORIENTATION OF MODULES.

NOTE: ALL WATER PIPING AND SANITARY PIPING TO BE ROUTED AT ELEVATION AND LOCATIONS AS SHOWN. REFER TO DRAWING M300 FOR SECTION.

1 2011/11/14 ISSUED FOR CONSTRUCTION  
0 2011/08/05 ISSUED FOR TENDER

SEALS:

Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
GENIVAR Inc.  
Number: C00888  
Permitted to Control Seal for:  
Mechanical, 8755

CLIENT: Government of Canada  
**Canada**

CONSULTANTS: GENIVAR  
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704, 1101-101 Street North, Saskatoon, SK S7N 3K6  
tel: 306-242-9130 fax: 306-441-4208

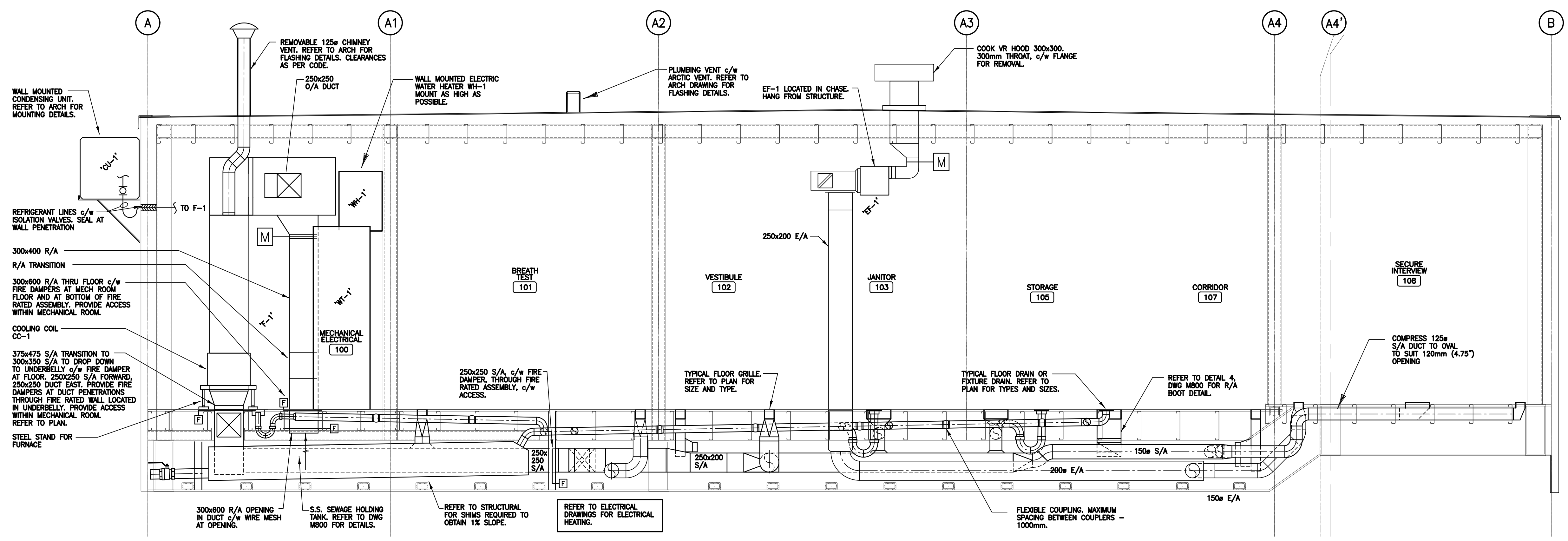
PROJECT: POLICE TRANSPORTABLE HOLDING CELLS

DRAWING: PLUMBING

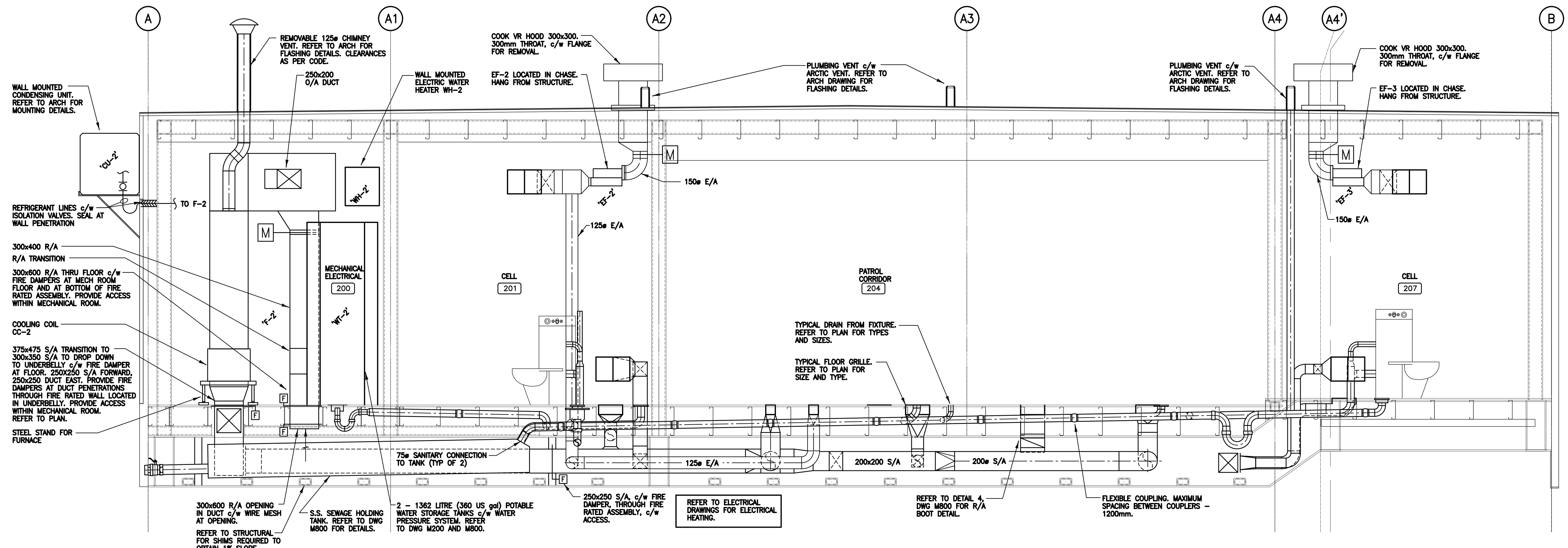
PROJECT No: 510-10 SHEET No: PLOT No:  
DATE: 2011/08/05  
DRAWN BY: SJS  
SCALE: AS NOTED  
**M200**







1 MASTER UNIT - SECTION  
1/25



2 BASE UNIT - SECTION  
1/25

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SEALS:

PROFESSIONAL ENGINEER  
BEN DENT  
MEMBER 9159  
SASKATCHEWAN

Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
GENIVAR Inc.  
Number C0808  
Permitted to Contract held by  
Discipline: MECHANICAL 9159

CLIENT: Government of Canada

# Canada

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PROJECT: POLICE TRANSPORTABLE HOLDING CELLS

DRAWING: MECHANICAL SECTIONS

PROJECT No: 510-10	SHEET No: PLOT No:
DATE: 2011/08/05	<h1 style="margin: 0;">M300</h1>
DRAWN BY: SJS	
SCALE: AS NOTED	



GRILLES, DIFFUSERS & LOUVRES	
TYPE	DESCRIPTION
A	GUNNEBO MAXIMUM SECURITY SUPPLY AIR DIFFUSER MODEL OP20V LOUVERED FACE DIFFUSER, LATTICE FACE PLATE, c/w TAMPER-PROOF BOLTS.
B	GUNNEBO MAXIMUM SECURITY EXHAUST AIR DIFFUSER MODEL OP20V LOUVERED FACE DIFFUSER, LATTICE FACE PLATE, c/w TAMPER-PROOF BOLTS.
C	E.H. PRICE MODEL LBPH 158/125/VCS3/C/B12 LINEAR BAR SUPPLY AIR GRILLE FOR RECESSED FLOOR MOUNTING c/w CORE CLIPS AND VOLUME CONTROL DAMPER.
D	E.H. PRICE MODEL LBPH 158/125/VCS3/C/B12 LINEAR BAR RETURN AIR GRILLE FOR RECESSED FLOOR MOUNTING c/w CORE CLIPS AND VOLUME CONTROL DAMPER.
E	E.H. PRICE MODEL LBPH 158/125/VCS3/C/B12 LINEAR BAR EXHAUST AIR GRILLE FOR RECESSED FLOOR MOUNTING c/w CORE CLIPS AND VOLUME CONTROL DAMPER.
INTAKE LOUVRE	PRICE MODEL DES35 DRINKABLE 6" LOUVRE. ALL WELDED 12ga. EXTRUDED ALUMINUM WITH 14ga. BIRD SCREEN AND BAKED ENAMEL FINISH. COLOR BY ARCHITECT.

WATER STORAGE TANKS		
TAG	LOCATION	DESCRIPTION
WT-1	BASE UNIT MECH ROOM 100	WATER STORAGE TANK - 1362 LITRE (360 US gal), MOLDED PLASTIC MODEL CMP 80014-1. TANK TO BE OVAL VERTICAL TYPE TANK, 29"(W) x 48"(L) x 75"(H), c/w VENTED 8" LID, BULKHEAD FITTINGS AS SHOWN ON DETAIL 1.
WT-2	MASTER UNIT MECH ROOM 200	WATER STORAGE TANK - 1362 LITRE (360 US gal), MOLDED PLASTIC MODEL CMP 80014-1. TANK TO BE OVAL VERTICAL TYPE TANK, 29"(W) x 48"(L) x 75"(H), c/w VENTED 8" LID, BULKHEAD FITTINGS AS SHOWN ON DETAIL 2.
WT-3	MASTER UNIT MECH ROOM 200	WATER STORAGE TANK - 1362 LITRE (360 US gal), MOLDED PLASTIC MODEL CMP 80014-1. TANK TO BE OVAL VERTICAL TYPE TANK, 29"(W) x 48"(L) x 75"(H), c/w VENTED 8" LID, BULKHEAD FITTINGS AS SHOWN ON DETAIL 2.

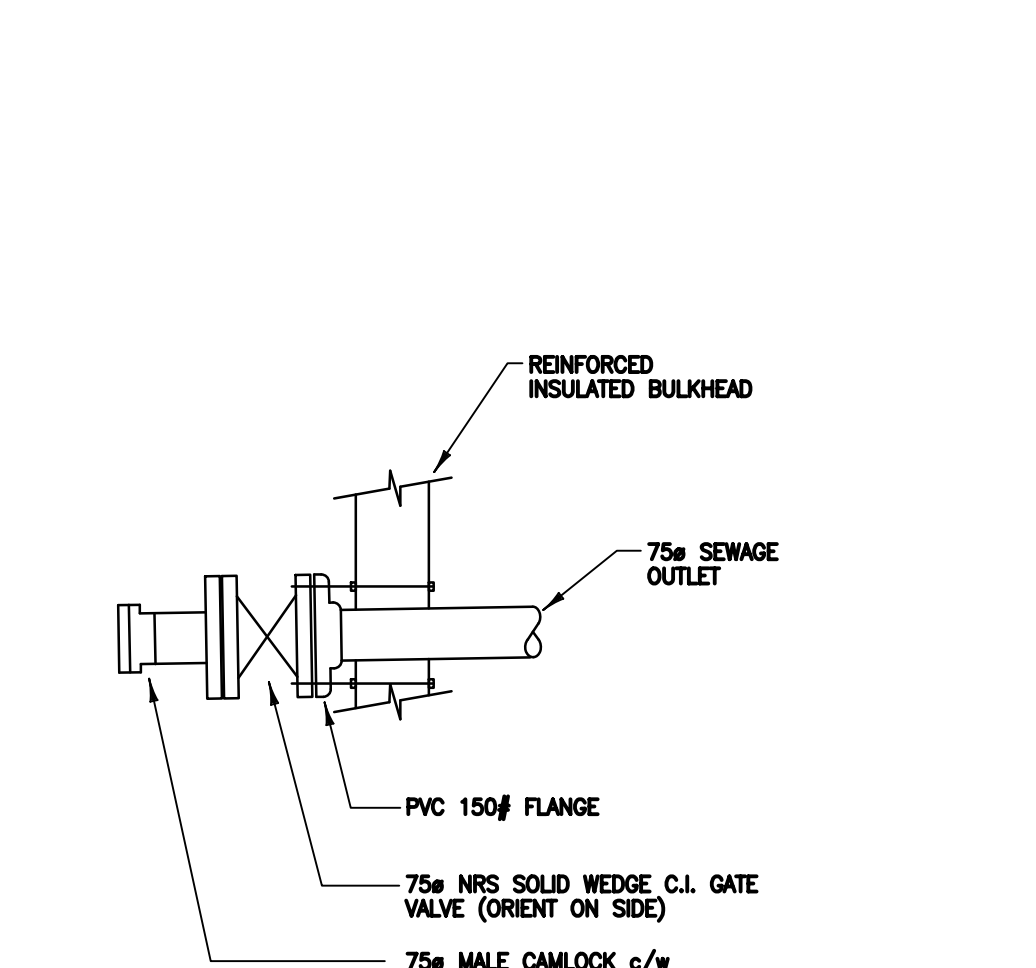
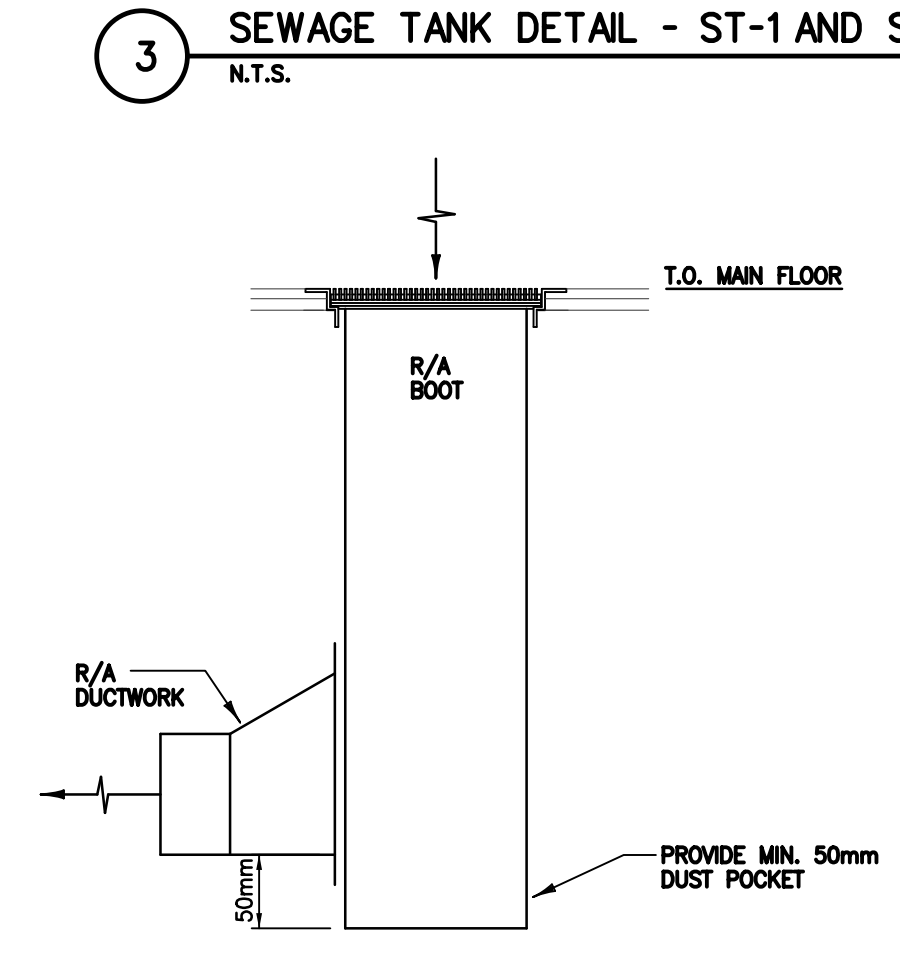
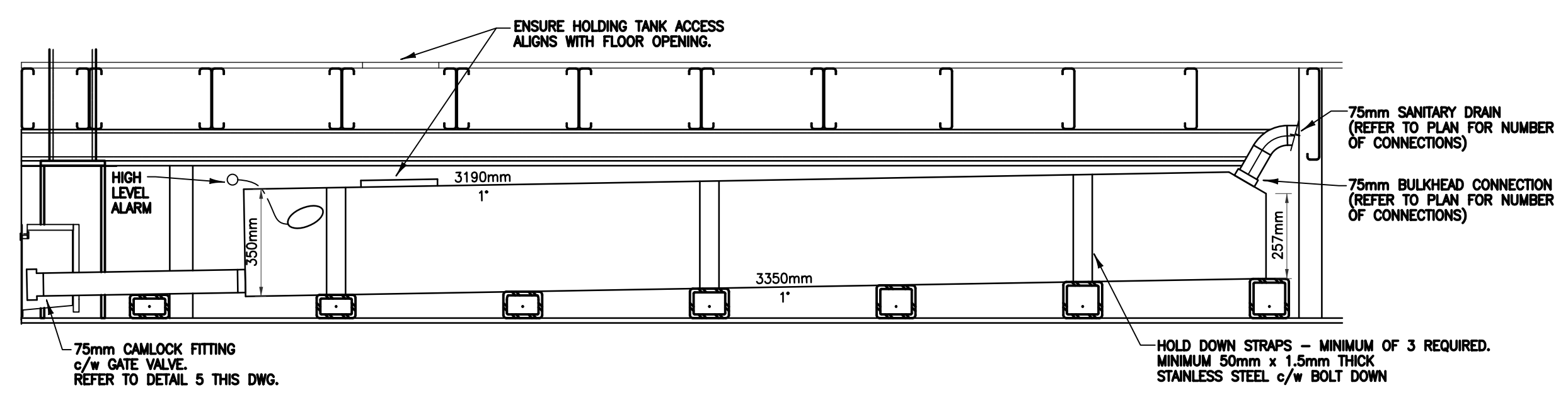
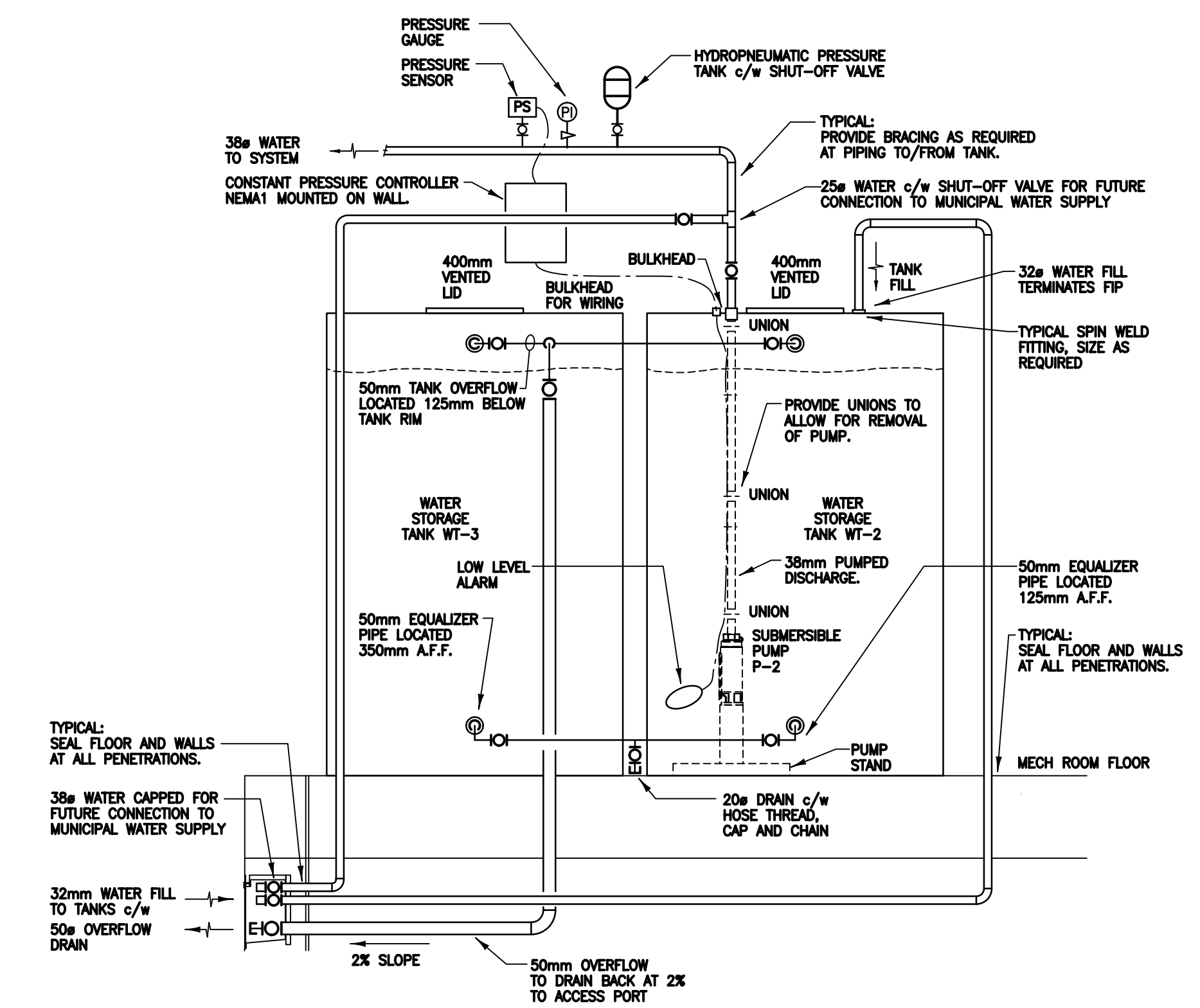
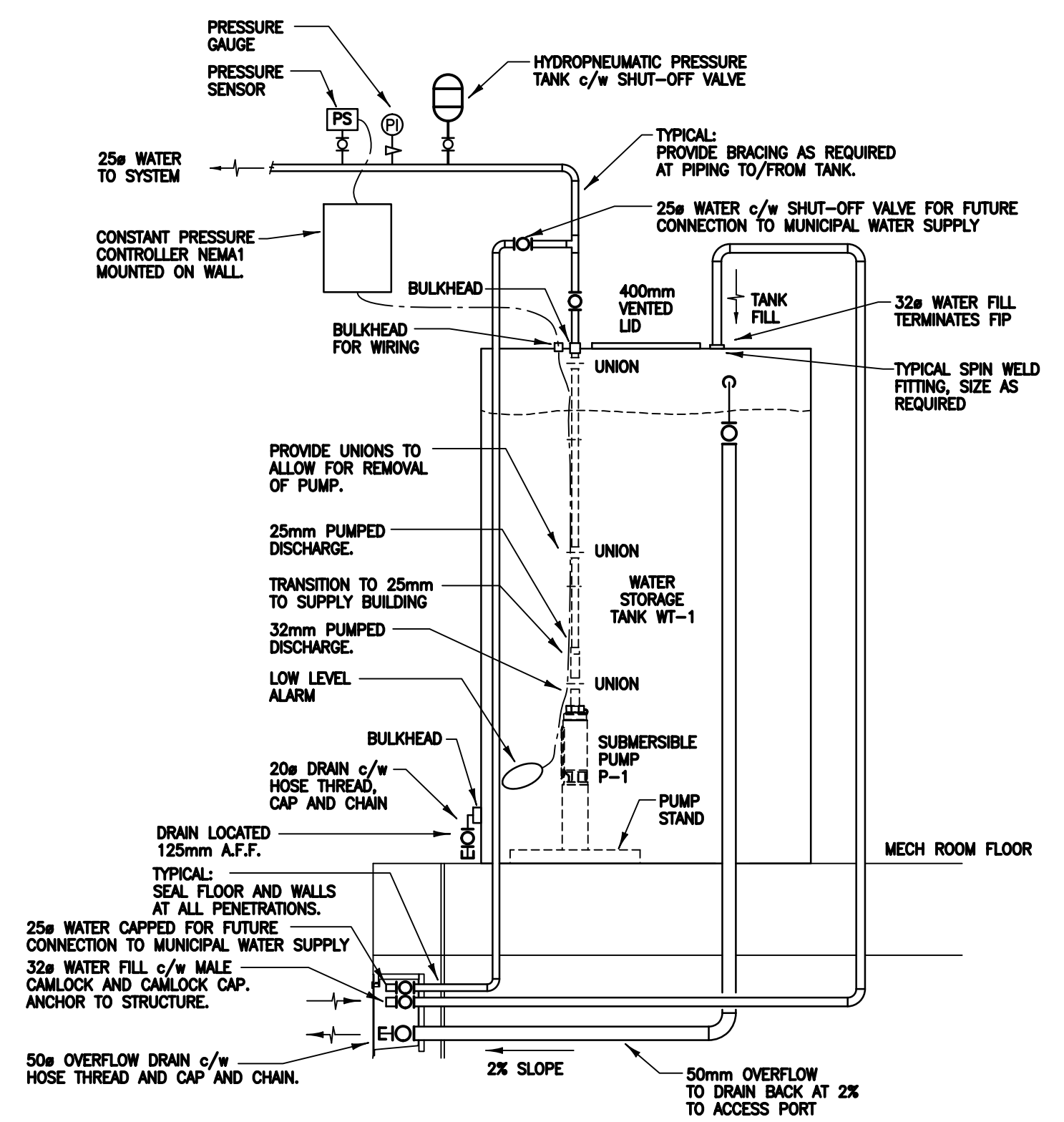
SEWAGE STORAGE TANKS		
TAG	LOCATION	DESCRIPTION
ST-1	BASE UNIT UNDERBELLY	SEWAGE STORAGE TANK, 16 GAUGE, TYPE 316 STAINLESS STEEL. ALL SEAMS AND CORNERS SHALL BE WELDED LIQUID TIGHT. UNIT c/w TOP MOUNTED ACCESS LID c/w GASKET AND S.S. FASTENERS, ONE 75mm BULKHEAD CONNECTION, VENT AND 100mm CAPPED DISCHARGE OUTLET. PROVIDE REINFORCEMENT AS REQUIRED TO SUPPORT LIQUID LEVEL. PREPARE SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION. DIMENSIONS TO BE: 3350mm (L) x 2133mm (W) x 350mm (H). Volume: 2250 litres AT 90% CAPACITY.
ST-2	MASTER UNIT UNDERBELLY	SEWAGE STORAGE TANK, 16 GAUGE, TYPE 316 STAINLESS STEEL. ALL SEAMS AND CORNERS SHALL BE WELDED LIQUID TIGHT. UNIT c/w TOP MOUNTED ACCESS LID c/w GASKET AND S.S. FASTENERS, ONE 75mm BULKHEAD CONNECTION, VENT AND 100mm CAPPED DISCHARGE OUTLET. PROVIDE REINFORCEMENT AS REQUIRED TO SUPPORT LIQUID LEVEL. PREPARE SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION. DIMENSIONS TO BE: 3350mm (L) x 2133mm (W) x 350mm (H). Volume: 2250 litres AT 90% CAPACITY.

FAN SCHEDULE							
UNIT No.	SERVICE	MANUF.	MODEL	FLOW RATE L/s	E.S.P. Pa.	ELECTRICAL HP/V/Ph	NOTES
'EF-1'	MASTER UNIT EXHAUST	COOK	GN-720	180	0.50	0.25/120/1	- INTERLOCK WITH F-1 - c/w ROOF DISCHARGE CAP
'EF-2'	BASE UNIT CELL 201 W/R 203	COOK	GN-164	66	0.50	FH/120/1	- INTERLOCK WITH F-2 - c/w ROOF DISCHARGE CAP
'EF-3'	BASE UNIT CELL 207	COOK	GN-164	66	0.25	FH/120/1	- INTERLOCK WITH F-2 - c/w ROOF DISCHARGE CAP

ELECTRIC WATER HEATER SCHEDULE						
TAG	LOCATION	SERVICE	TANK CAP LITERS	RECOVERY (L/hr @ 55°C T.R.)	MANUF./MODEL	NOTES
WH-1	MASTER UNIT	DOMESTIC HOT WATER	72	45	BRADFORD WHITE LD-WH20L3-1	- 3000W ELEMENT - c/w FACTORY INSTALLED HEAVY DUTY WALL MOUNTING BRACKET - PROVIDE ADDITIONAL STAPPING TO ANCHOR UNIT TO WALL
WH-2	BASE UNIT	DOMESTIC HOT WATER	23	23	BRADFORD WHITE LD-WH6U3-1	- 1500W ELEMENT - c/w FACTORY INSTALLED HEAVY DUTY WALL MOUNTING BRACKET - PROVIDE ADDITIONAL STAPPING TO ANCHOR UNIT TO WALL

PUMP SCHEDULE											
UNIT No.	LOCATION	SERVICE	MANUFACTURER	MODEL/SIZE	FLUID	FLOW RATE l/s	T.D.H. lpa	SPEED RPM	ELECTRICAL kW/V/Ph	REMARKS	CONTROL
P-1	MASTER UNIT MECH/ELEC ROOM 100	WATER PRESSURE SYSTEM	GOULDS PUMPS	10GS05-411 (SUBMERSIBLE)	POTABLE WATER	0.631	75	3450	.37/120/1	UNIT c/w POLYPROPYLENE LINED DIAPHRAGM TANK MODEL TP6P, 2.0 GAL VOLUME, CONSTANT PRESSURE CONTROLLER MONODRIVE NEMA1, MODEL 587 020 3110, 5.7 A 1/2 hp. UNIT c/w IN TANK PUMP MOUNTING BRACKET AW39T. SUPPLY FLOAT AND ALARM FOR LOW LEVEL.	SELF-CONTAINED
P-2	BASE UNIT MECH/ELEC ROOM 200	WATER PRESSURE SYSTEM	GOULDS PUMPS	10GS05-411 (SUBMERSIBLE)	POTABLE WATER	0.631	75	3450	.37/120/1	UNIT c/w POLYPROPYLENE LINED DIAPHRAGM TANK MODEL TP6P, 2.0 GAL VOLUME, CONSTANT PRESSURE CONTROLLER MONODRIVE NEMA1, MODEL 587 020 3110, 5.7 A 1/2 hp. UNIT c/w IN TANK PUMP MOUNTING BRACKET AW39T. SUPPLY FLOAT AND ALARM FOR LOW LEVEL.	SELF-CONTAINED

FURNACE SCHEDULE															
TAG	SERVICE	MANUF./MODEL No.	FUEL	HEATING		BLOWER PERFORMANCE			COOLING			NOTES			
				INPUT Btu/h	OUTPUT Btu/h	HP/V/Ph	FLOW RATE (cfm)	ESP (in. W.C.)	EWAP. COIL MODEL NO.	TAG	COND. UNIT MODEL NO.		TAG	COOLING CAPACITY TONS	ELECTRICAL V/Ph
F-1	MASTER UNIT	ENGINEERED AIR XE-130-CF	NATURAL GAS	115,200	92,160	0.50/120/1	900	1.0	LENNOX CR33-24A-F	CC-1	LENNOX 13ACX-24	CU-1	2	208/1	- ELECTRICAL CONNECTION TO BE MOUNTED ON LEFT SIDE - COUNTERFLO MODEL WITH INLET/MIX BOX - MODULATING GAS INPUT/DISCHARGE AIR TEMPERATURE CONTROLLED - c/w PROPANE CONVERSION KIT
F-2	BASE UNIT	ENGINEERED AIR XE-130-CF	NATURAL GAS	115,200	92,160	0.50/120/1	900	1.0	LENNOX CR33-24A-F	CC-2	LENNOX 13ACX-24	CU-1	2	208/1	



1 2011/11/14 ISSUED FOR CONSTRUCTION  
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SEALS:

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CERTIFICATE OF AUTHORIZATION  
GENIVAR Inc.  
Number: CO888  
Mechanical: 9159

CLIENT: Government of Canada

**Canada**

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2205 Speers Avenue North Battleford, SK S1A 1A1  
tel: 306.242.2535 email: office@rbm-architectura.ca fax: 306.242.9130

PROJECT:

**POLICE TRANSPORTABLE HOLDING CELLS**

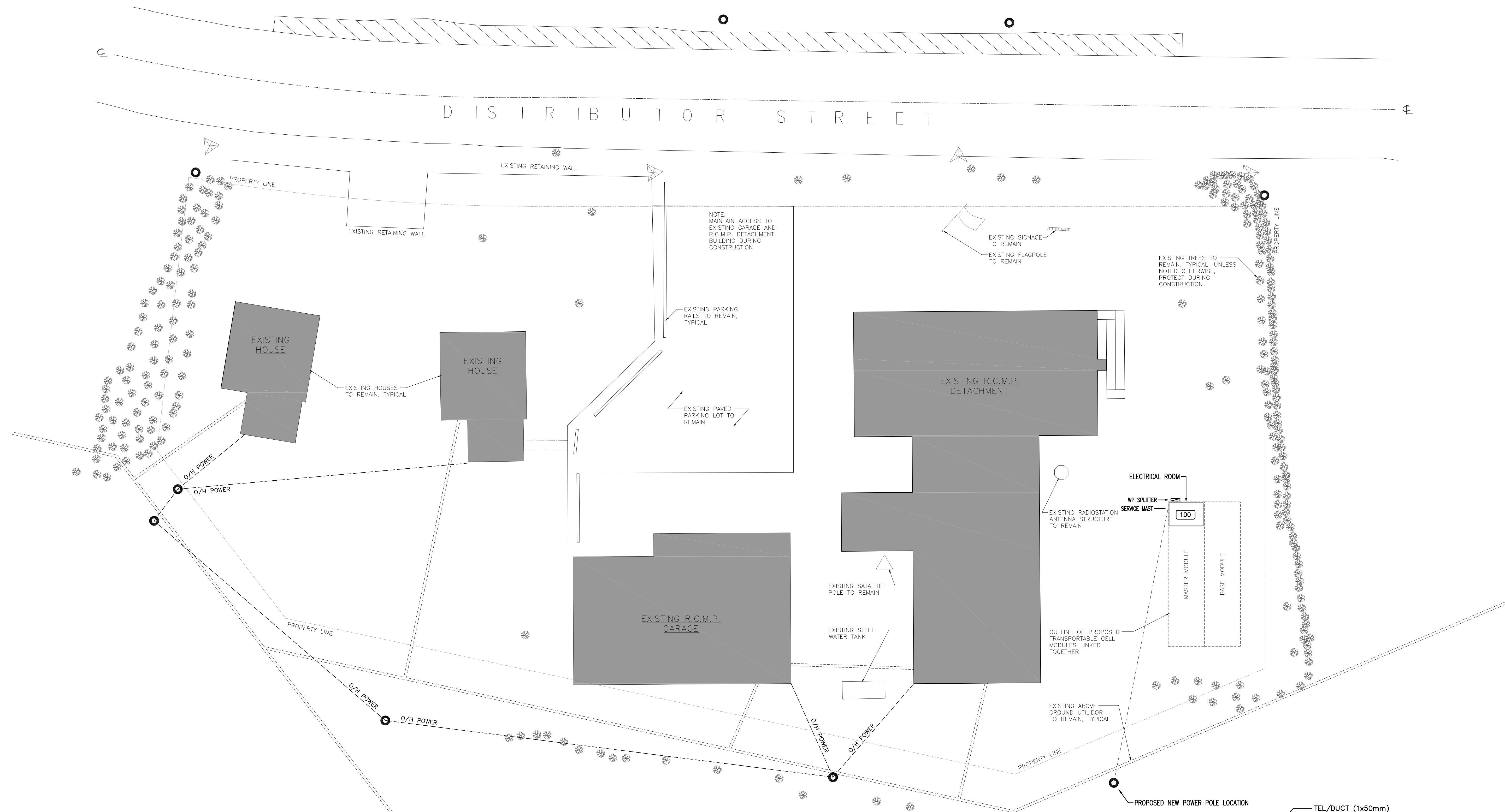
DRAWING:

**DETAILS SCHEDULES**

PROJECT No: 510-10 SHEET No: PLOT No:  
DATE: 2011/08/05  
DRAWN BY: SJS  
SCALE: AS NOTED

**M800**

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**CONSTRUCTION DRAWING**  
 CONTRACTOR:  
 DATE: NOV 17/2011  
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Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
**PWA Engineering Ltd.**  
 Number C033  
 Permission to Consult held by:  
 Discipline: ELECTRICAL Sk. Reg. No. 4294 Signature: *[Signature]*

SEALS:  
  
 CLIENT:  
**Government of Canada**

CONSULTANTS:  
  
**PWA ENGINEERING LTD.**  
 CONSULTING ELECTRICAL ENGINEERS  
 #102 - 301 CYNIA STREET SASKATOON, SK S7N 0B7 TEL: (306) 242-2536 FAX: (306) 242-2537

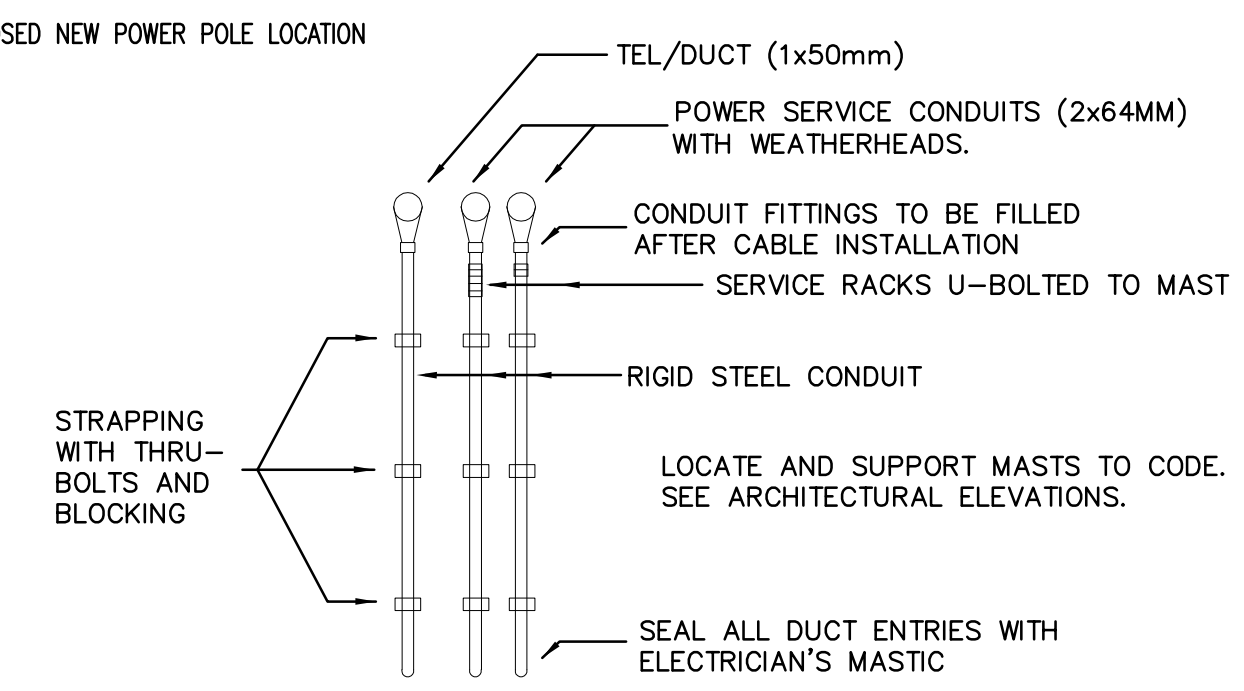
**R B M**  
 architecture  
 2236 Sports Avenue Saskatoon, SK S7N 0B7 email: office@rbm-architecture.ca \* 704, 1101-101 Street North Battleford, SK S1A 2R6 fax: 306-242-9130 phone: 306-441-4208

PROJECT:  
**POLICE TRANSPORTABLE HOLDING CELLS**

DRAWING:  
**SITE PLAN: PROPOSED INUVIK, NWT ELECTRICAL**

PWA 7020  
 PROJECT No: 510-10 SHEET No: PLOT No: 1  
 DATE: Aug 05, 2011  
 DRAWN BY: ARZ  
 SCALE: AS NOTED

**NOTES:**  
 CONTRACTOR TO CONNECT FROM WP SPLITTER TO INCOMING SERVICE AT WEATHERHEAD MAST. PROVIDE SERVICE MAST TO NTPC REQUIREMENTS.  
 OVERHEAD LINE TO BE 3.5M IN PEDESTRIAN AREAS AND 5.0M IN VEHICLE AREAS ABOVE FINISHED GRADE. ALLOW FOR LINE DROOP.

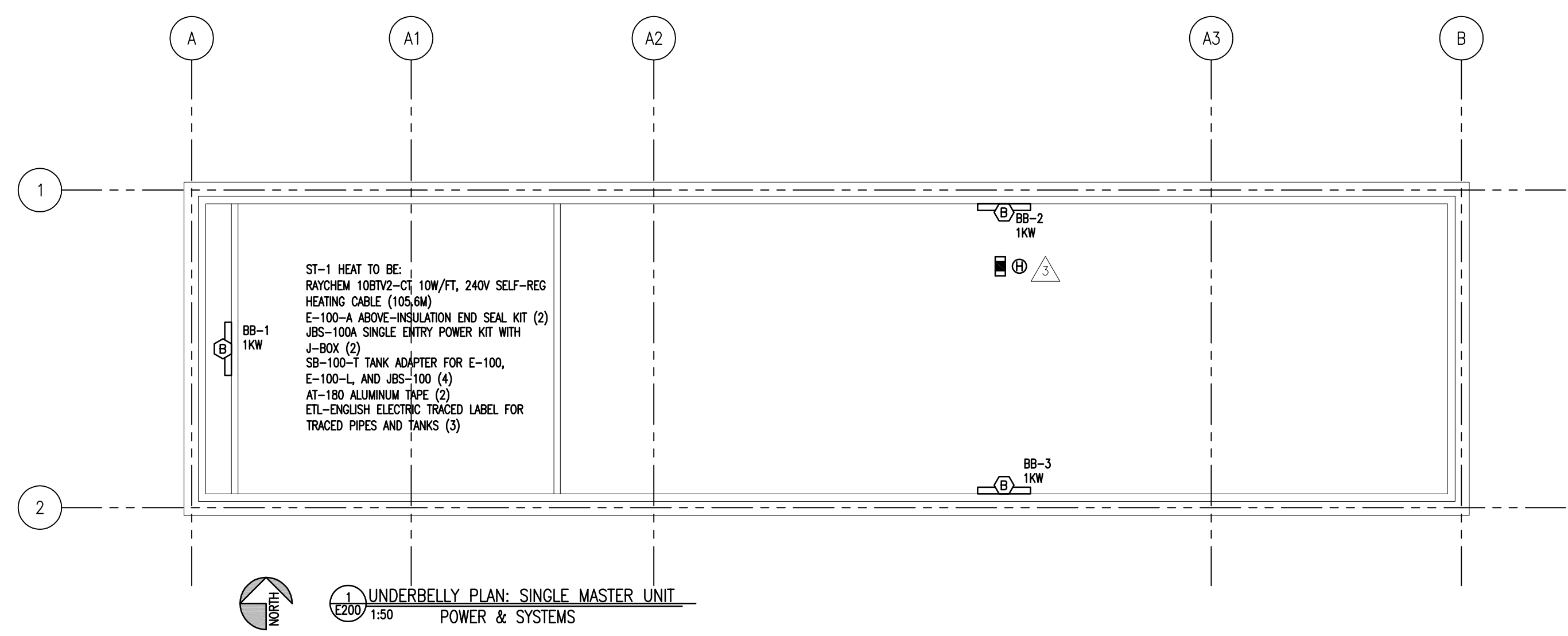


1 SITE PLAN  
 E100 1:200  
 ELECTRICAL

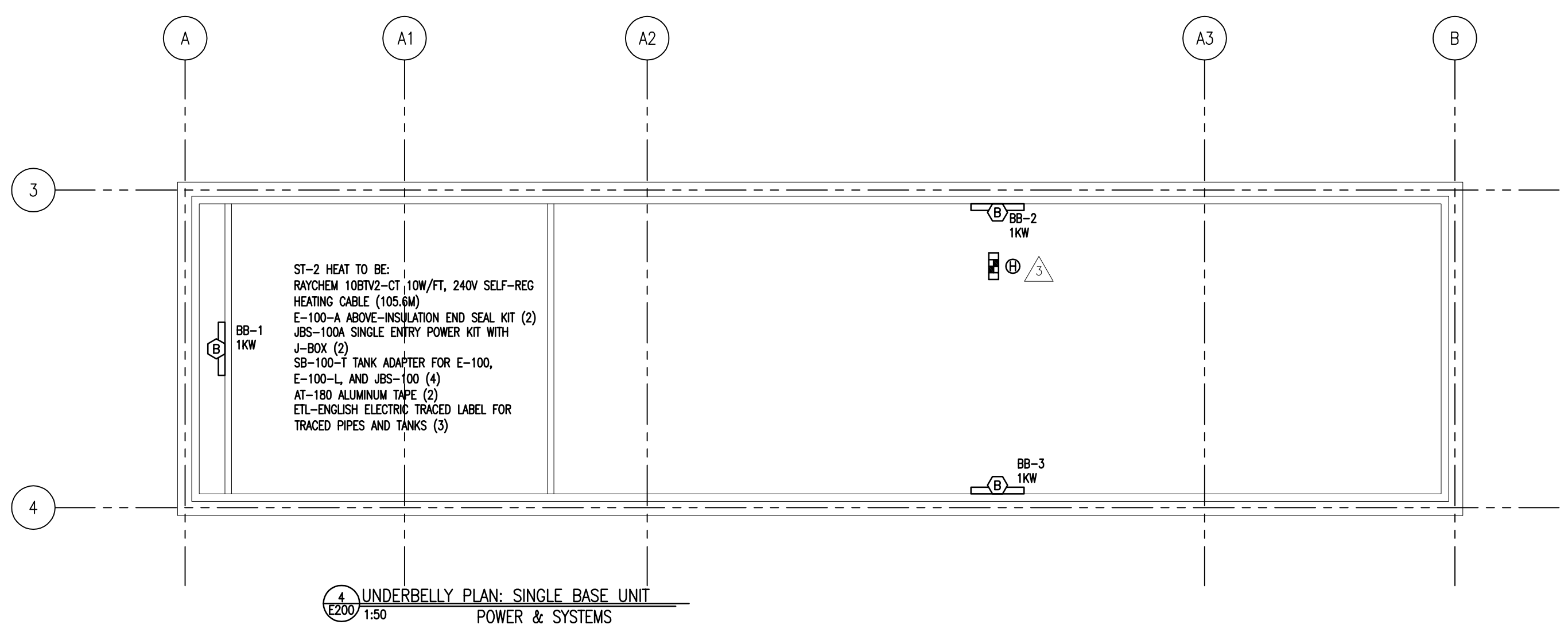
**E100**



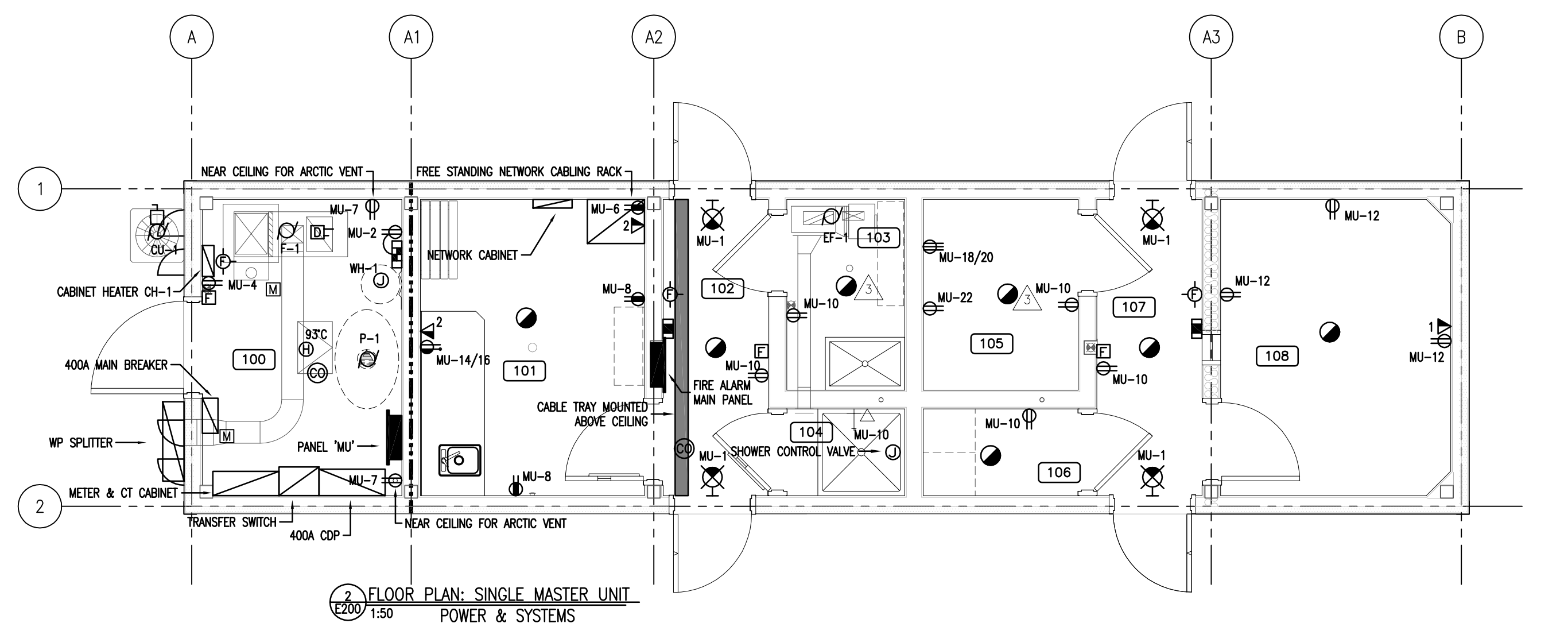
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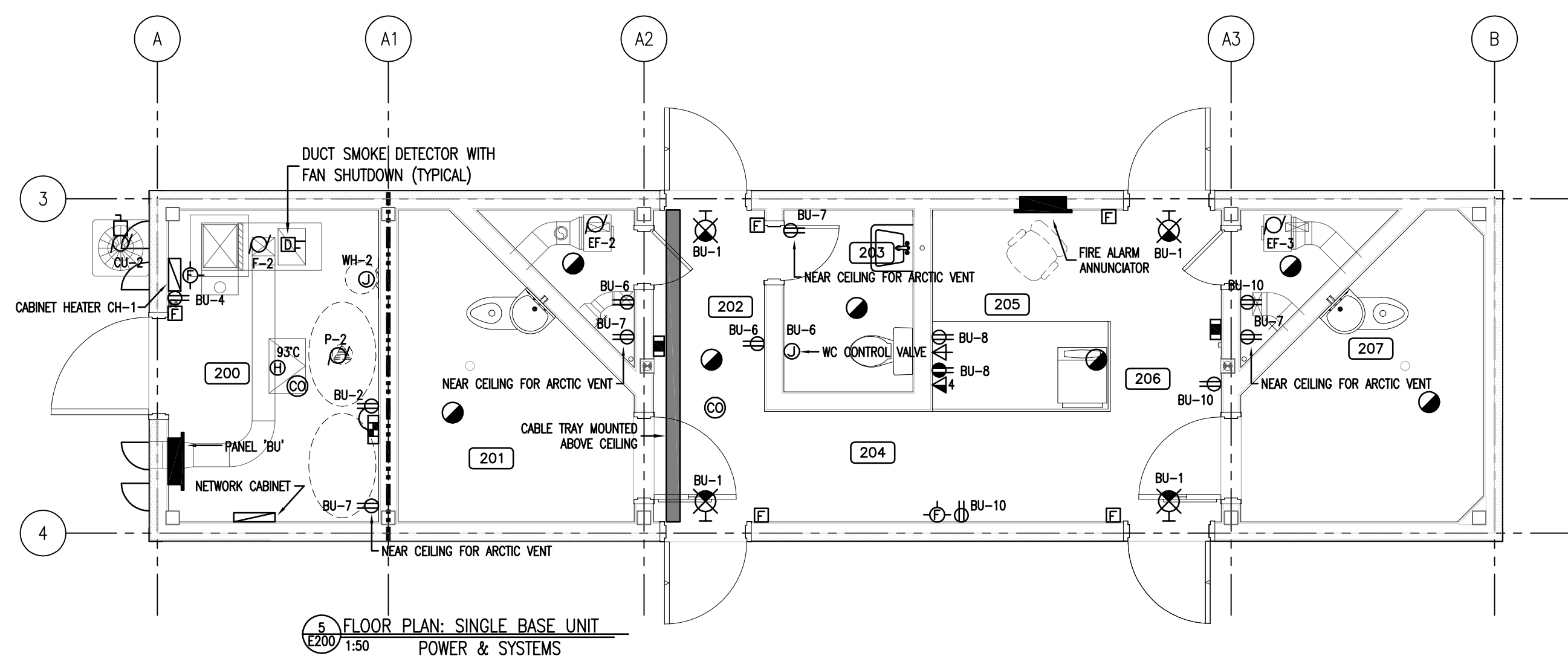
1 UNDERBELLY PLAN: SINGLE MASTER UNIT  
 E200 1:50 POWER & SYSTEMS



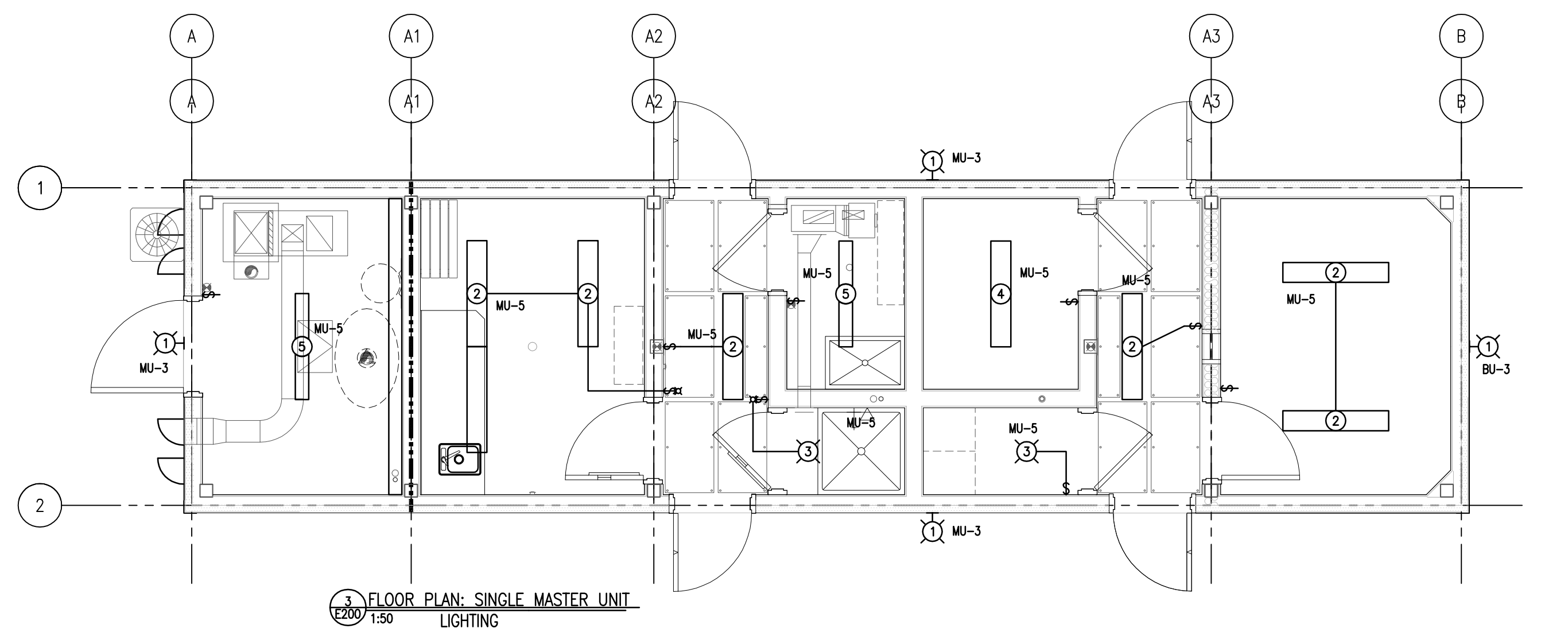
4 UNDERBELLY PLAN: SINGLE BASE UNIT  
 E200 1:50 POWER & SYSTEMS



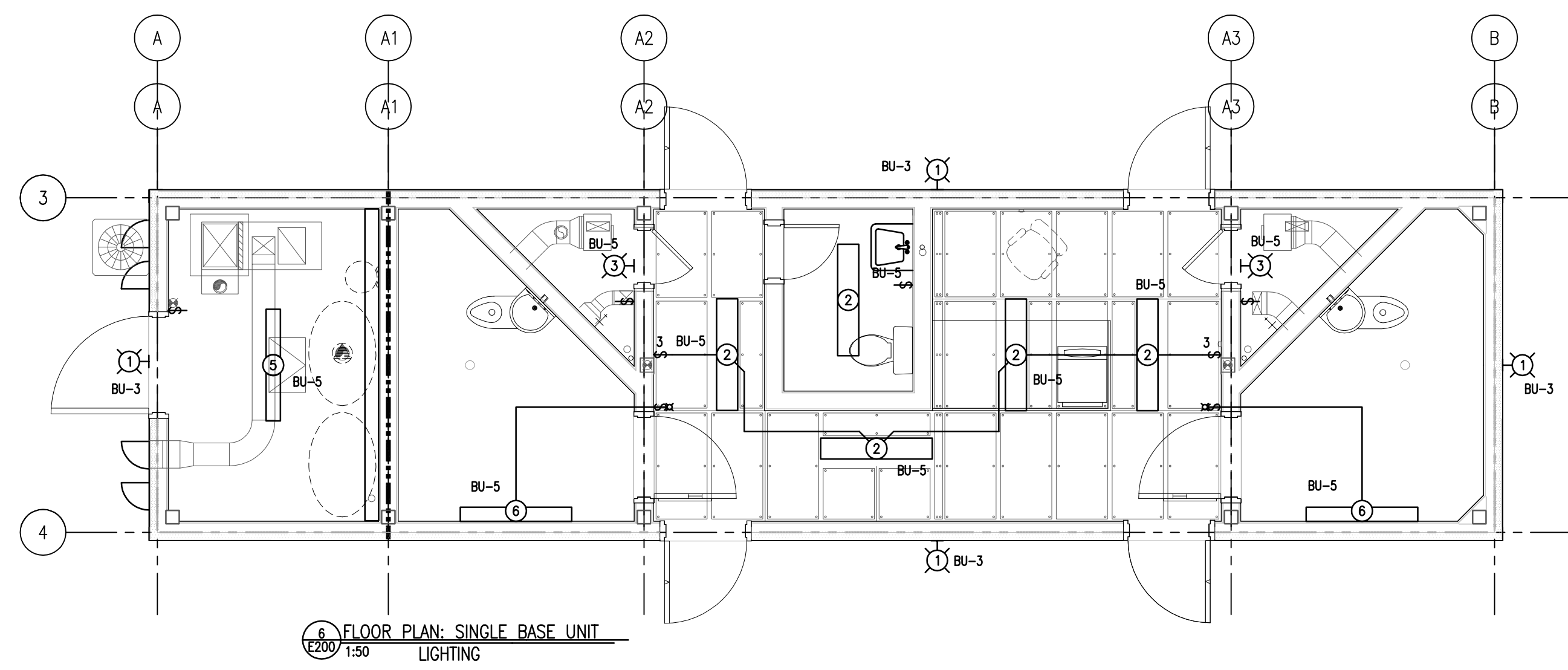
2 FLOOR PLAN: SINGLE MASTER UNIT  
 E200 1:50 POWER & SYSTEMS



5 FLOOR PLAN: SINGLE BASE UNIT  
 E200 1:50 POWER & SYSTEMS



3 FLOOR PLAN: SINGLE MASTER UNIT  
 E200 1:50 LIGHTING



6 FLOOR PLAN: SINGLE BASE UNIT  
 E200 1:50 LIGHTING

NOTES:  
 1. 1KW BASEBOARD HEATER TO BE CHROMALOX BM4810W11 C/W INTEGRAL THERMOSTAT.  
 2. 1.5KW CABINET HEATER TO BE CHROMALOX RB15D31-MIT C/W INTEGRAL THERMOSTAT.

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 ELECTRICAL 4294 *R. M. Kelly*



CLIENT:  
**Government of Canada**

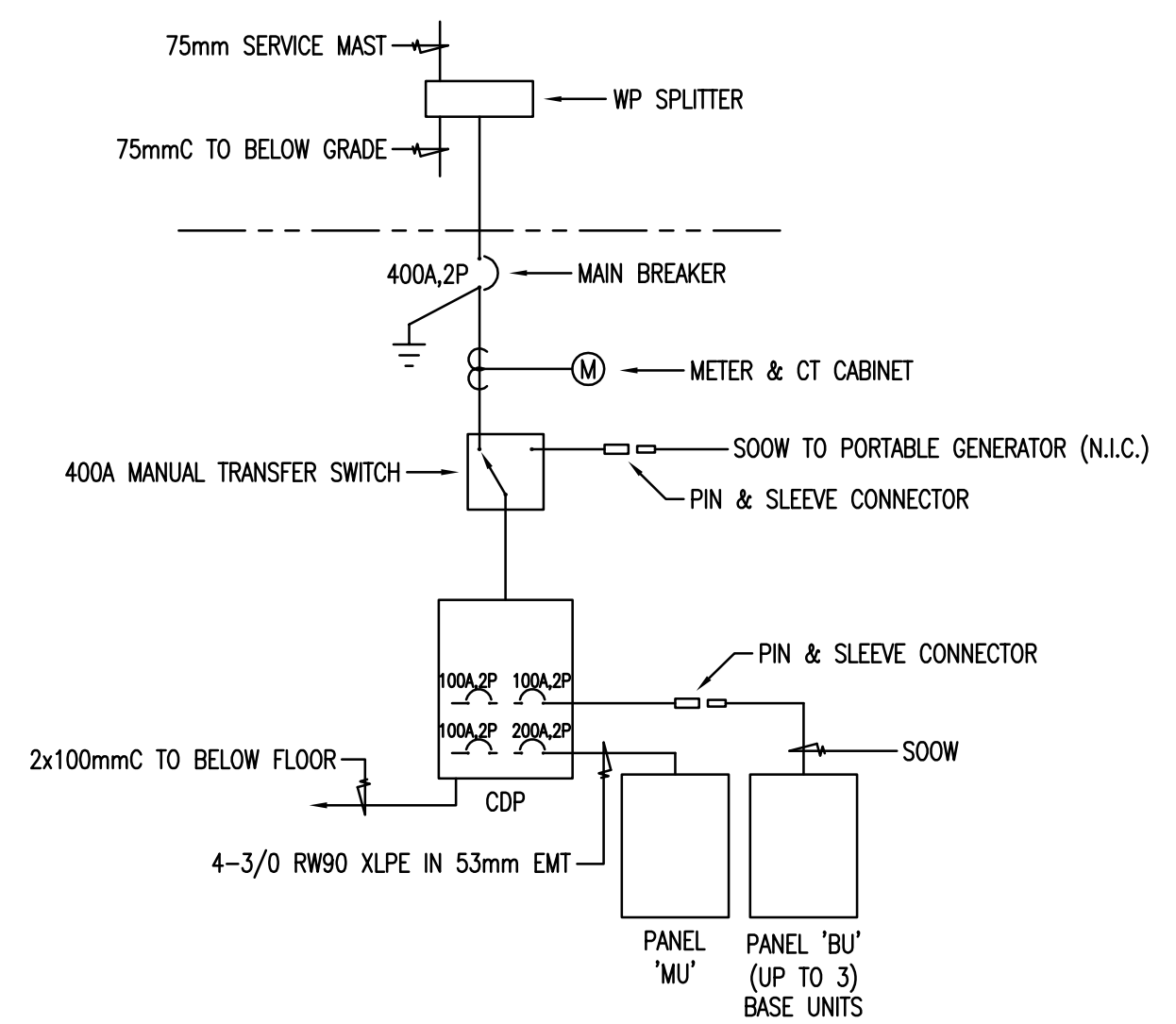
CONSULTANTS:  
**PWA ENGINEERING LTD.**  
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**R B M**  
 architecture  
 2206 Spens Avenue Saskatoon, SK S7N 0B7 email: office@rbmarchitecture.ca \* 704, 1101-101 Street North, North Battleford, SK S1A 2R6 ph: 306-242-2536

PROJECT:  
**POLICE TRANSPORTABLE HOLDING CELLS**

DRAWING:  
**FLOOR PLANS ELECTRICAL**

PWA 7020  
 PROJECT No: 510-10 SHEET No: PLOT No: 1  
 DATE: Aug 05, 2011  
 DRAWN BY: ARZ  
 SCALE: AS NOTED  
**E200**



120/240V-1Ø-3W POWER DISTRIBUTION ONE LINE DIAGRAM N.T.S.

TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	MOUNTING	LAMPS	NOTES
1	LED WALL PACK TYPE 4 DISTRIBUTION WITH BACK LIGHT CONTROL	MAGNAN EDISON	ISW-A3-LED-E1-BL4	WALL	LED (2W)	
2	4 SURFACE MOUNTED VANDAL RESISTANT FLUORESCENT FIXTURE WITH TAMPERPROOF FASTENERS, INJECTION MOLDED POLYCARBONATE GASKETTED LENS FOR NET LOCATIONS	LITHONIA PIELESS ELECTRIC COOPER FAL-SAFE	V50-220-120-ML-CSA-RS V50-220-120 F75-220-120	SURFACE	2x20W T8	
3	VANDAL RESISTANT RECTANGULAR FIXTURE WITH CAST HOUSING, HORIZONTALLY MOUNTED & CLEAR PRISMATIC POLYCARBONATE LENS	LITHONIA KENWELL COOPER FAL-SAFE	V92C-801T-120-CSA-LP1 H91P5-C-800-1-120 C93C-P-80W-100-L	WALL	1-20W QT	
4	4 FLUORESCENT SURFACE WRAP WITH PRISMATIC LENS AND WHITE METAL END CAPS	LITHONIA CPI METALUX	LS-220-120-GB100-CSA T2048-10000 WS-220A-120V-EBH1	SURFACE	2x20W T8	
5	4 8TWP FLUORESCENT FIXTURE C/W WIPESHAED	LITHONIA CPI	C220-120-GB-CSA 8848-10000	SURFACE	2x20W T8	
6	4 VANDAL PROOF FLUORESCENT FOR CORNER MOUNTING IN PRISONER CELLS, TO BE COMPLETE WITH NIGHT LIGHT, 14 GAUGE STEEL HOUSING WITH PRISMATIC ACRYLIC PANEL LENS AND 1/2" POLYCARBONATE OUTER	METALUX COOPER FAL-SAFE METALUMEN	80720-100-200T FMC-X-220-120-800E-EBR-FM SS2-A1-03-PCWHA	SURFACE	2x20W T8 & 8W NIGHT-LITE	

LEGEND	
SYMBOL	DESCRIPTION
	FLUORESCENT FIXTURE - CEILING MOUNT
	FLUORESCENT FIXTURE - WALL MOUNT
	INCANDESCENT/HID FIXTURE - SURFACE/WALL MOUNT
	EXIT LIGHT - SURFACE/WALL MOUNT SHADING INDICATES LIT FACE
	SWITCH 3=3WAY D=DIMMER K=KEYED T=TIMELOCK
	PILOT LIGHT SWITCH
	DUPLEX RECEPTACLE * = COUNTER HEIGHT
	SPLIT WIRE RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	JUNCTION BOX
	NORMAL POWER PANEL AS INDICATED
	FIRE ALARM PANEL/ANNUNCIATOR AS INDICATED
	EMERGENCY BATTERY UNIT C/W LIGHTING HEADS
	REMOTE EMERGENCY LIGHTS, SINGLE & DOUBLE
	MOTOR
	DISCONNECT SWITCH
	MOTORIZED DAMPER
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM PULL STATION
	FIRE ALARM HORN/STROBE
	CARBON MONOXIDE DETECTOR
	STRUCTURED WIRING OUTLET
	TELEVISION OUTLET
	DOOR CONTACT
	MOTION DETECTOR
	SECURITY SIREN ALARM
	SECURITY CARD READER
	SECURITY KEYPAD
	CLOSED CIRCUIT TELEVISION
	CCTV CAMERA
	SECURITY DEVICE AS NOTED

PANEL MU									
		VOLTS: 120/240		LOCATION: RM100		BUSSING: 225			
		PHASE: 1 FEEDER-SEE SINGLE LINE				MTG. SURFACE			
		WIRE: 3							
CIRC.	BRKR	A	B	DESCRIPTION	DESCRIPTION	A	B	BRKR	CIRC
1	1P15	100		EXIT LIGHTS	BATTERY UNIT	360		1P15	2
3	1P15	78		EXTERIOR LIGHTS	RM 100 RECEIPT	200		1P15	4
5	1P15	692		INTERIOR LIGHTS	NETWORK RACK RECEIPT	800		1P15	6
7	1P15	150		ARCTIC VENT	RM 101 RECEIPTS	400		1P15	8
9	1P15	373		P-1 WATER PRESSURE SYSTEM	RM 102-107 RECEIPTS	500		1P15	10
11	1P15	187		EF-1 EXHAUST FAN	RM 108 RECEIPTS	300		1P15	12
13	2P30	1500		WH-1 WATER HEATER	RM 101 COUNTER RECEIPT	800		2P15	14
15	2P15	1500		WH-2 WATER HEATER		800		2P15	16
17	2P15	373		F-1 FURNACE	RM 105 DRYER	750		2P15	18
19	2P15	373		F-2 FURNACE		750		2P15	20
21	2P15	1000		BB-2	RM 105 WASHER	500		1P15	22
23	2P15	1000		BB-1		1000		1P15	24
25	2P15	750		CH-1	BB-2	1000		1P15	26
27	2P15	750		CH-1	BB-3	1000		1P15	28
29	2P30	1600		CU-1		965		2P30	30
31	1P15			SPARE	ST-1 HEAT			1P15	32
33	1P15			SPARE				1P15	34
35	1P15			SPARE				1P15	36
37	1P15			SPARE				1P15	38
39	1P15			SPARE				1P15	40
41	1P15			SPARE				1P15	42
TOTAL		6388	5536			5675	5415		TOTAL
PHASE A TOTAL =		12063							
PHASE B TOTAL =		11053							
PANEL TOTAL =		23116 @ 120/240 VOLTS 1 PHASE				96.3 AMPS			
REMARKS									

PANEL BU									
		VOLTS: 120/240		LOCATION: RM200		BUSSING: 225			
		PHASE: 1 FEEDER-SEE SINGLE LINE				MTG. SURFACE			
		WIRE: 3							
CIRC.	BRKR	A	B	DESCRIPTION	DESCRIPTION	A	B	BRKR	CIRC
1	1P15	100		EXIT LIGHTS	BATTERY UNIT	360		1P15	2
3	1P15	78		EXTERIOR LIGHTS	RM 100 RECEIPT	200		1P15	4
5	1P15	564		INTERIOR LIGHTS	RM 202 RECEIPTS	200		1P15	6
7	1P15	300		ARCTIC VENT	RM 205 RECEIPTS	600		1P15	8
9	1P15	373		P-2 WATER PRESSURE SYSTEM	RM 206 RECEIPTS	375		1P15	10
11	1P15	300		EF-2, EF-3 EXHAUST FANS	BB-1	1000		1P15	12
13	2P15	750		WH-2 WATER HEATER	BB-2	1000		1P15	14
15	2P15	750		WH-2 WATER HEATER	BB-3	1000		1P15	16
17	2P15	373		F-2 FURNACE	CH-1	750		2P30	18
19	2P15	373		F-2 FURNACE		750		2P30	20
21	2P30	1600		CU-2	ST-2 HEAT	965		2P30	22
23	2P30	1600		CU-2		965		2P30	24
25	1P15			SPARE				1P15	26
27	1P15			SPARE				1P15	28
29	1P15			SPARE				1P15	30
31	1P15			SPARE				1P15	32
33	1P15			SPARE				1P15	34
35	1P15			SPARE				1P15	36
37	1P15			SPARE				1P15	38
39	1P15			SPARE				1P15	40
41	1P15			SPARE				1P15	42
TOTAL		3760	3401			3650	4515		TOTAL
PHASE A TOTAL =		7410							
PHASE B TOTAL =		7916							
PANEL TOTAL =		15326 @ 120/240 VOLTS 1 PHASE				63.9 AMPS			
REMARKS									

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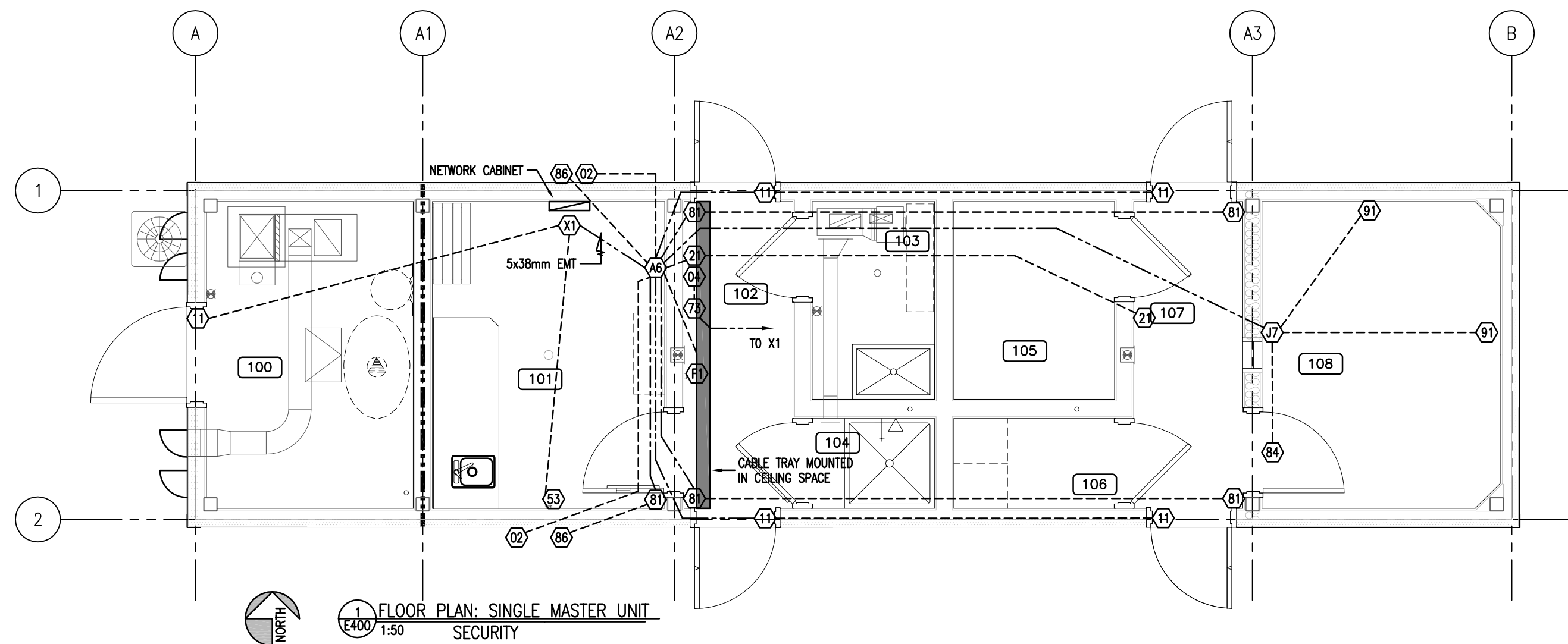
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PROJECT:  
**POLICE TRANSPORTABLE HOLDING CELLS**

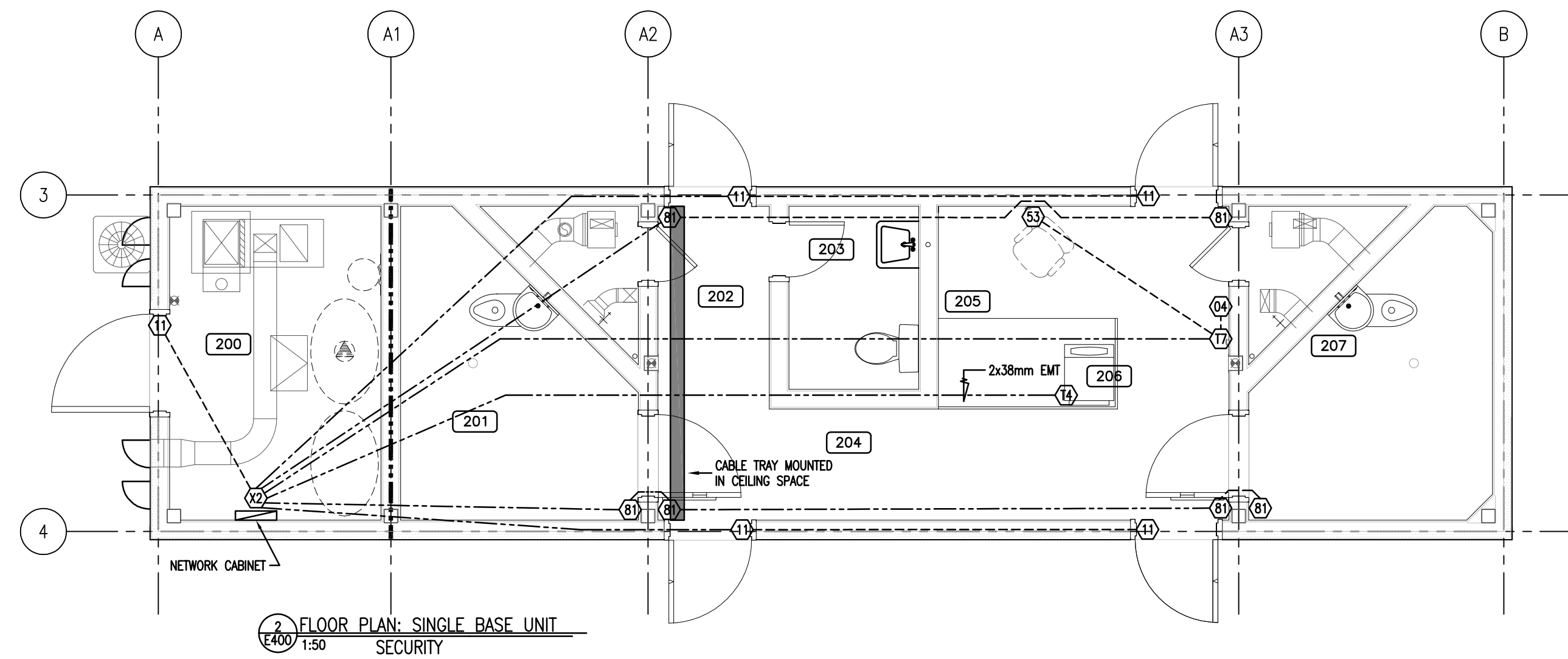
DRAWING:  
**ELECTRICAL SCHEDULES & SCHEMATICS**

PWA 7020  
 PROJECT No: 510-10 SHEET No: PLOT No: 1  
 DATE: Aug 05, 2011  
 DRAWN BY: ARZ  
 SCALE: AS NOTED  
**E300**



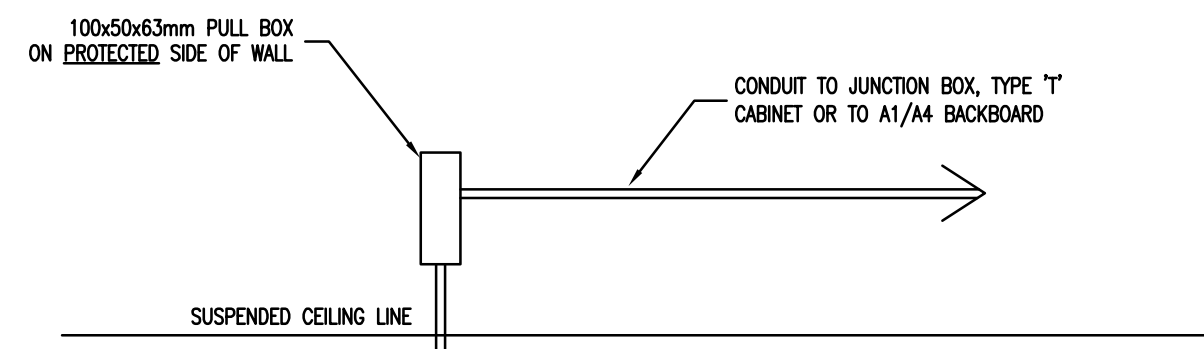


1 FLOOR PLAN: SINGLE MASTER UNIT SECURITY  
E400 1:50



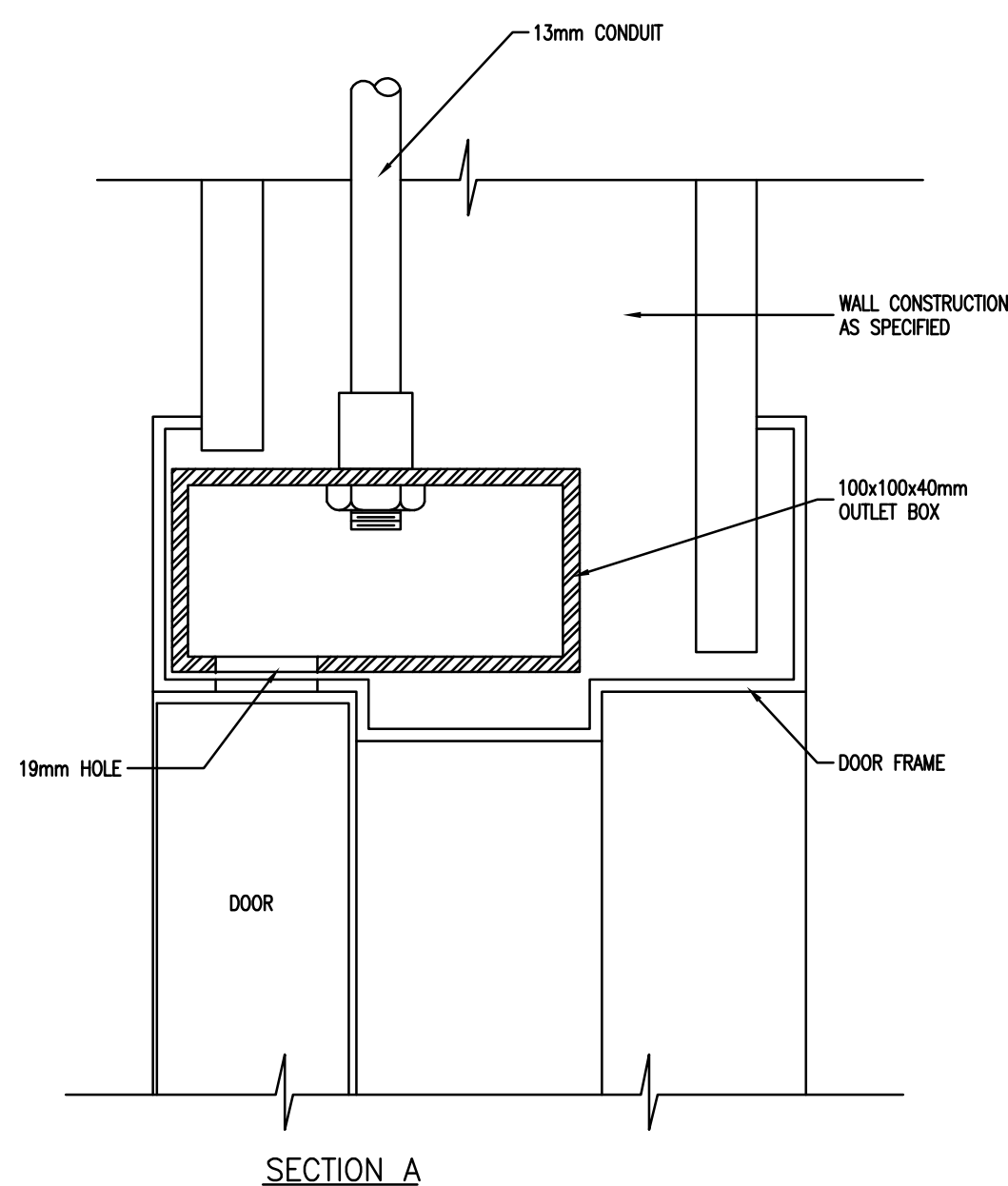
2 FLOOR PLAN: SINGLE BASE UNIT SECURITY  
E400 1:50

----- 13mmØ CONDUIT SIZED TO FIT CABLE UNLESS SPECIFIED OTHERWISE.



3 PROTECTED DOOR - ELEVATION OF SINGLE DOOR WITH DOOR CONTACT  
E400 NTS

NOTES:  
CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO THE OUTLET BOX BY DOOR FRAME FABRICATOR.  
OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.  
DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.



SECTION A

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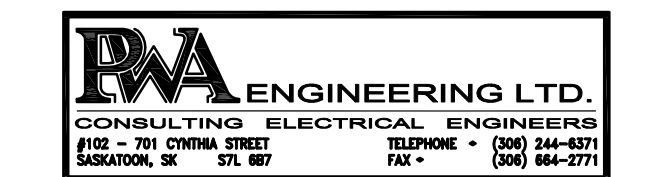
SEALS:



CLIENT:

Government of Canada

CONSULTANTS:



PROJECT:

**POLICE TRANSPORTABLE HOLDING CELLS**

DRAWING:

**FLOOR PLANS SECURITY**

PROJECT No: 510-10		SHEET No: PLOT No: 1	
DATE: Aug 05, 2011		<b>E400</b>	
DRAWN BY: ARZ			
SCALE: AS NOTED			