



Issue Date: September 16th, 2025

ATTN: Vendors

RE: Project Name: Bryant Army Airfield (BAAF) 47437 Remodel Project
Project Number: 02A7025009
Project Location: BAAF Building 47437, JBER, AK 99505

Addendum # One (1)

This addendum forms a part of the contract documents and modifies the original drawings and/or specifications for the subject work. In case of conflicts between this addendum and previously issued documents, this addendum shall take precedence.

The following questions have been received, answered, and changes below are required:

1. Question: Will the building be occupied during construction?

Answer: Yes, more than likely the building will be occupied during construction. The building generally is not fully occupied but from my experience there are usually several people working there on a daily basis.

2. Question: Is Meridian systems required for controls work?

Answer: Controls work will certainly have to be done and obviously is a requirement. Meridian Systems is not specifically required, however, whoever does the controls work will have to ensure that BACnet to any primary DDC system installed is possible.

3. Question: Is the building required to have TAB or commissioning?

Answer: Yes, these will be required.

4. Question: Are electrical and mechanical drawings acceptable, or does the client also want architectural drawings, or any other discipline?

Answer: Electrical and mechanical drawings are acceptable. Architectural drawings are not needed in this case. General Requirements 1.02 A on ITB states "Work under this Contract includes providing all design, a **set of engineered drawings pertaining to this project in PDF format**, materials, equipment, permits, tools, labor, travel, licenses, insurance, disposal, and all other expenses to complete the project detailed herein."

5. Question: Are there any requirements for testing for Hazmat (asbestos, LBP, PCBs, etc.)?

Answer: No, that is not part of the scope of this project.

6. Question: Will the presence of hazmat/toxics be considered a differing site condition?

Answer: Yes, by definition that would be considered a differing site condition, however, the scope of this project does not include testing/remediation of asbestos, LBP, PCBs, etc. so there should not be any concerns. Per Part 4 of the ITB (Environmental Requirements subsection 5), "...there are no known asbestos or lead issues

documented.”

7. Question: Please confirm that partition walls, toilet paper dispensers, hand towel dispensers, air hand dryers, sinks, counters, mirrors, recessed trashcans, and any other bathroom feature not specifically identified in the scope of work are out of scope in the restrooms and will not be removed or replaced.

Answer: Confirmed, partition walls, toilet paper dispensers, hand towel dispensers, air hand dryers, sinks, counters, mirrors, recessed trashcans, and any other bathroom feature not specifically identified in the scope of work are out of scope in the restrooms and will not be removed or replaced.

8. Question: Is the contractor responsible to provide temporary toilets for the building occupants to use while the restrooms are being renovated? If so, how many toilets are required?

Answer: The building occupants can utilize the restrooms at BAAF Building 47432 (short walk from their office) while the restrooms are being renovated. The contractor must get one temporary toilet for his team as BAAF Building 47432 will not be available to the contractor and people performing the work.

9. Question: Can both restrooms be renovated at the same time, or are they required to be phased in such a way where only one is out of service at a time?

Answer: Yes, both restrooms can be renovated at the same time.

10. Question: Can the CCD be extended to 8/30/2026?

Answer: Yes, we can extend that to 8/30/2026 if need be.

11. Question: Please confirm that modifications to the ceiling grid are excluded, only the ceiling tiles are in scope.

Answer: Confirmed that modifications to the ceiling grid are excluded, only the ceiling tiles are included in the scope.

12. Question: Is DALT testing required?

Answer: Yes, DALT testing is required.

13. Question: Can the new thermostats' conduit be surface mounted or does it have to be run inside of the walls?

Answer: New thermostats' conduit must be run inside of the walls.

14. Question: Who is responsible for moving and protecting existing building equipment and furniture?

Answer: The troops have indicated that they can help move some items out provided they were given ample notice and time to do it. The building users will have to move out any heavy equipment since we do not want the contractor to risk damaging the higher dollar items. Desks, filing cabinets, furniture, etc. will more than likely have to be moved and protected by the contractor. This will be ironed out in more detail with the successful bidder at the pre-construction meeting following project award. Overall, it will depend heavily on the potential contractor's timeline and when they can commence work.

15. Question: If the contractor would like to store materials outside, can a locked connex be placed in the parking lot for easy access? Would temporary fencing or any other items be required?

Answer: Yes, there is a large parking lot across the street that is rarely used and would be a good location for a locked connex to store materials. You must put the connex in an area that does not disrupt daily operations. Temporary fencing is not required but considerations must be made to ensure the area where the connex is placed does not cause any damage. As a note, if there is any damage done to existing utilities, infrastructure (parking lot), equipment, etc. while performing the work, the Contractor is responsible to restore them to the original or better condition. These details will be ironed out between the successful bidder and Project Manager at the pre-construction meeting.

16. Question: Can the contractor utilize space within the building for a field office?

Answer: No, there is not a dedicated space within the building that the contractor can use for a field office.

17. Question: Can the contractor bill for paid materials prior to installation? A paid invoice would be provided, or upon material delivery to the project site.

Answer: Progress payments can be made for work that is completed and material that is purchased.

18. Question: Do the lockers in the restrooms need to be removed for painting and then reinstalled, or can they remain and painting to occur around them?

Answer: The lockers in the restrooms do not need to be removed for painting and then reinstalled. They can remain and the walls can be painted around them. We do require that the lockers are adequately covered so paint does not get on them. If wall paint accidentally gets on the lockers, then it will be the responsibility of the contract to remove it, repaint the locker, or whatever is required to get them back to their original condition or better.

19. Does the building have current CAD as-builts the contractor can utilize to edit for this project or will the contractor be required to create entire building as-builts in CAD format?

Answer: Unfortunately, the building does not have current CAD as-builts that the contractor can utilize to edit for this project. I have included all the old as-built PDFs (from 2003) for reference. Please see the attached documents following the end of this addendum.

20. Are any wall penetrations required to be fireproofed?

Answer: Any wall penetrations must comply with all applicable Federal, State, and Local Regulations and Requirements including but not limited to; Unified Facility Guide Specifications (UFGS), Unified Facilities Criteria (UFC), OSHA, NEC, and NFPA. If code requires them to be fireproofed, then they must be fireproofed.

Please contact me if you have any questions.

Sincerely,

Scott Higbee, BMS

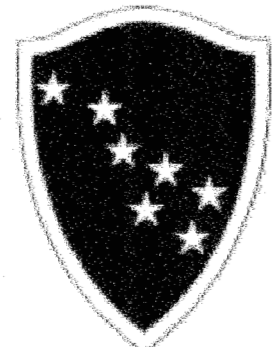
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End of Addendum

READY BUILDING ADD/ALT (WMD)

BRYANT AIRFIELD
ALASKA ARMY NATIONAL GUARD

FORT RICHARDSON, ALASKA



DRAWING INDEX

PROJECT INTRODUCTION

- T1 PROJECT COVER SHEET, DRAWING INDEX
- T2 PROJECT INFORMATION, ABBREVIATIONS SYMBOLS & LEGENDS, AND CODE ANALYSIS

CIVIL (BASE BID)

- C1.0 SITE PLAN
- C2.0 UTILITY PLAN AND PROFILES
- C3.0 TYPICAL DETAILS

ARCHITECTURAL

- A1.0 REFERENCE FLOOR PLANS

SCHEDULE A (BASE BID)

- A0.1 EXTERIOR REFERENCE PLAN & PHOTOS
- A0.2 FIRST FLOOR REFERENCE PLAN & PHOTOS
- A0.3 SECOND FLOOR REFERENCE PLAN & PHOTOS
- A1.1 FIRST AND SECOND FLOOR DEMOLITION PLANS
- A2.1 FIRST FLOOR PLAN - NEW WORK
- A2.2 SECOND FLOOR PLAN - NEW WORK
- A2.3 ROOM FINISH SCHEDULE, WALL TYPES, AND DETAILS
- A2.4 DOOR SCHEDULE, TYPES, AND OPENINGS DETAILS
- A2.5 WINDOW SCHEDULE, TYPES, AND OPENINGS DETAILS
- A6.1 FIRST FLOOR REFLECTED CEILING PLAN, CEILING LEGEND, NOTES AND TYPICAL DETAILS
- A6.2 SECOND FLOOR REFLECTED CEILING PLAN AND TYPICAL DETAILS
- A8.1 ENTRY CANOPY DETAILS

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- A2.1 NEW WMD READY BUILDING FLOOR PLAN
- A2.2 NEW WMD READY BUILDING ROOF PLAN
- A2.3 ROOM FINISH SCHEDULE AND COLOR SCHEDULE
- A2.4 DOOR AND WINDOW SCHEDULE, TYPES, AND OPENINGS DETAILS
- A3.1 NEW WMD READY BUILDING EXTERIOR ELEVATIONS
- A3.2 BUILDING SECTIONS
- A4.1 ENLARGED PARTIAL FLOOR PLANS & ELEVATIONS
- A4.2 DETAILS
- A6.1 NEW WMD BUILDING REFLECTED CEILING PLAN CEILING LEGEND, NOTES AND TYPICAL DETAILS
- A8.1 ROOFING DETAILS

STRUCTURAL

SCHEDULE B (BASE BID)

- S1.0 FOUNDATION PLAN
- S2.0 DETAILS AND GENERAL NOTES

MECHANICAL

SCHEDULE A (BASE BID)

- M0.1 MECHANICAL LEGEND AND SCHEDULES
- M0.2 SCHEDULES
- M1.1 FIRST AND SECOND FLOOR DEMOLITION PLANS
- M2.1 FIRST, SECOND & UNDERGROUND PLUMBING PLANS
- M3.1 FIRST FLOOR HEATING AND VENTILATION PLAN
- M3.2 SECOND FLOOR HEATING AND VENTILATION PLAN
- M5.1 ENLARGED MECH ROOM, SCHEMATICS, AND DETAILS
- M6.1 DETAILS

SCHEDULE B

- M0.1 MECHANICAL LEGEND AND SCHEDULES
- M0.2 SCHEDULES
- M2.1 PLUMBING FLOOR PLAN
- M2.2 UNDERFLOOR PLUMBING FLOOR PLAN
- M2.3 NOT USED
- M2.4 PLUMBING RISERS AND DETAILS
- M3.1 HEATING PLAN
- M4.1 VENTILATION PLAN
- M5.1 ENLARGED MECH ROOM, SCHEMATICS, AND DETAILS
- M6.1 DETAILS
- M6.2 DETAILS

ELECTRICAL

SCHEDULE A (BASE BID)

- E0.1 ELECTRICAL LEGEND AND FIXTURE SCHEDULE
- E2.1 FIRST FLOOR LIGHTING PLAN
- E3.1 FIRST FLOOR POWER PLAN
- E4.1 FIRST FLOOR FIRE PROTECTION PLAN
- E5.0 DETAILS

SCHEDULE B

- E0.1 ELECTRICAL LEGEND AND FIXTURE SCHEDULE
- E2.1 LIGHTING PLAN
- E3.1 POWER PLAN
- E4.1 FIRE PROTECTION PLAN
- E5.0 DETAILS

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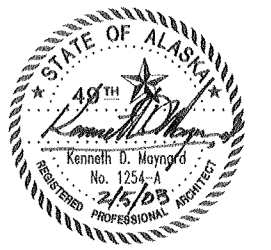
1830 Second Avenue
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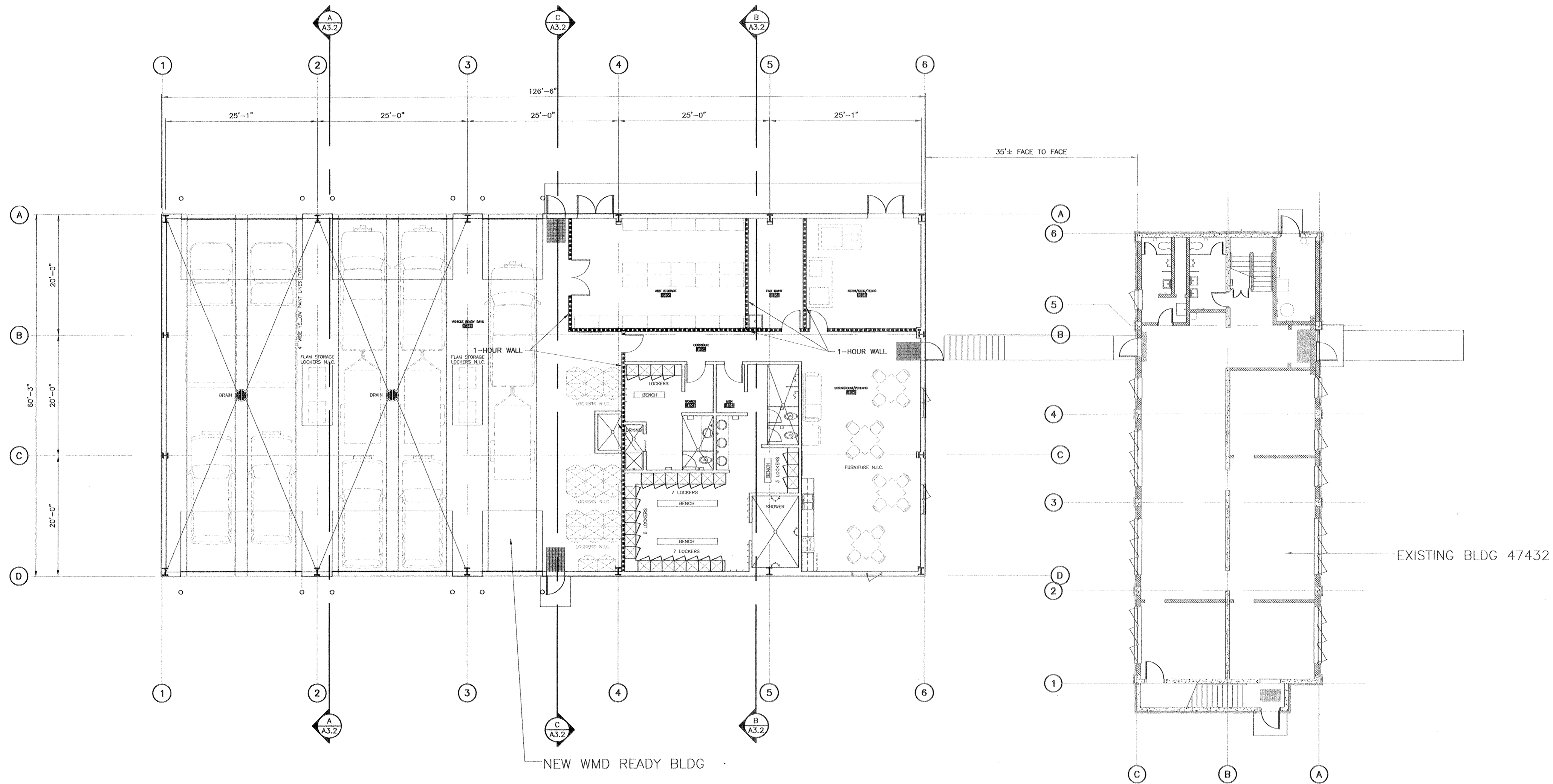
HZA

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ESTIMATIONS Inc



Notes:



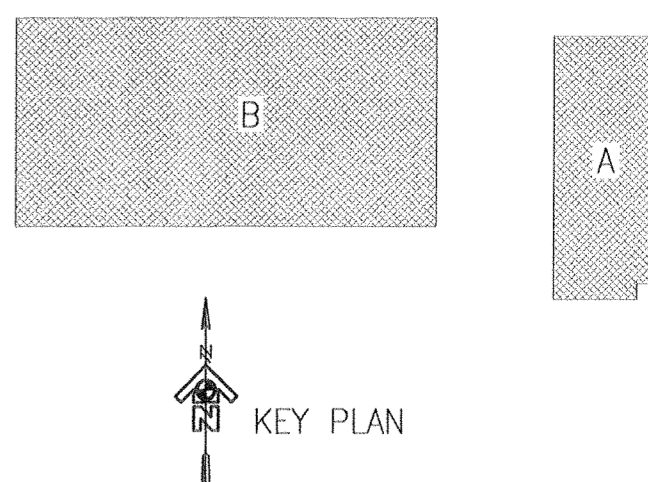
SCHEDULE B

WORK ASSOCIATED WITH THE NEW WMD READY BUILDING IS BROKEN INTO BASE BID ITEMS AND ALTERNATES. SEE APPROPRIATE DRAWINGS FOR BREAKDOWN OF WORK ITEMS.

SCHEDULE A

ALL WORK ASSOCIATED WITH EXISTING BUILDING 47432 IS PART OF THE BASE BID

PLAN NORTH TRUE NORTH
 1 REFERENCE FLOOR PLANS
 SCALE: 3/16" = 1'-0"



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Project:
READY BUILDING ADD/ALT (WMD)
 ALASKA ARMY NATIONAL GUARD
 BRYANT AIRFIELD
 FORT RICHARDSON, ALASKA

PROJ No. 020171A

Date	Revision	By

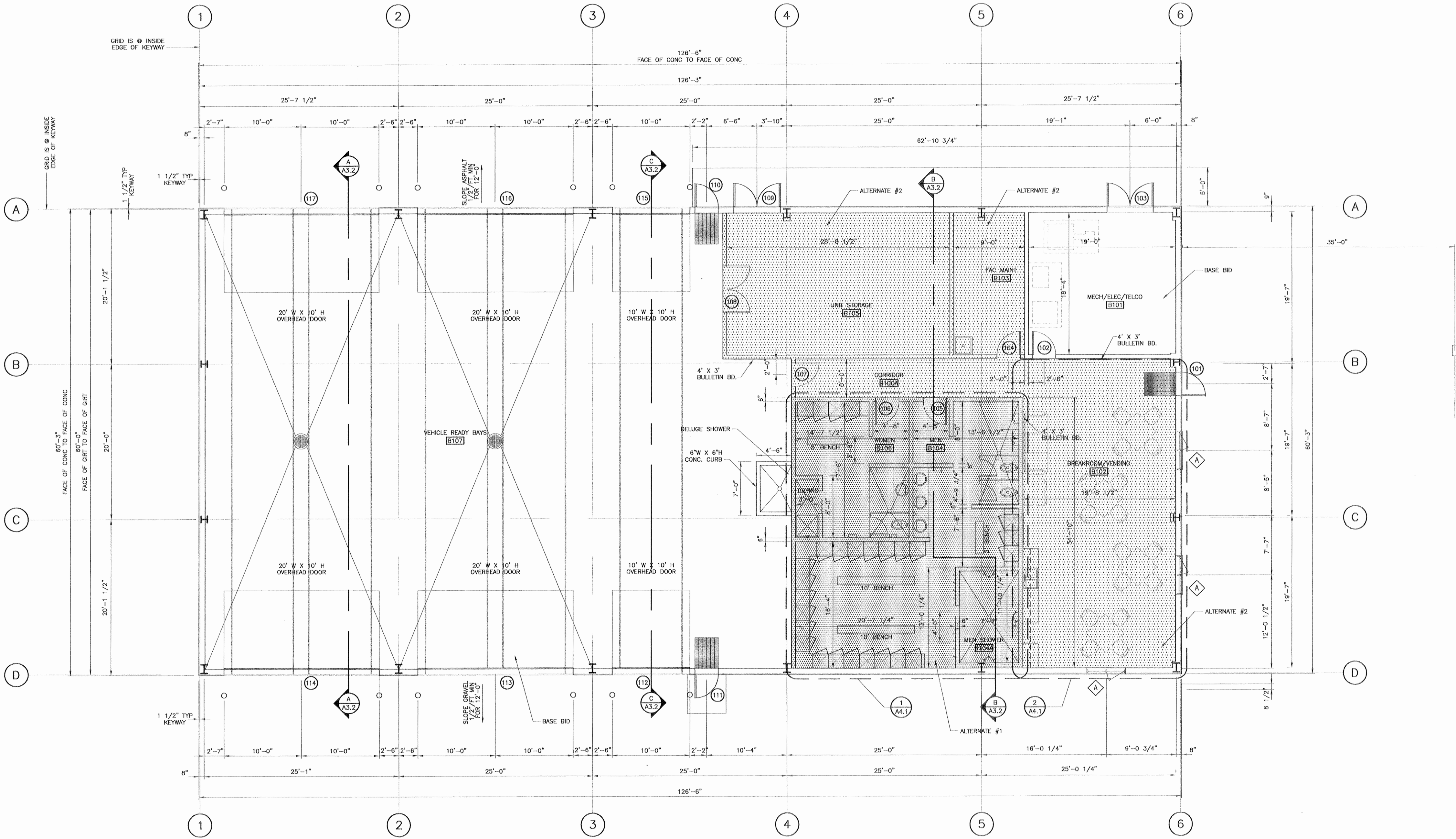
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Checked	KDM	
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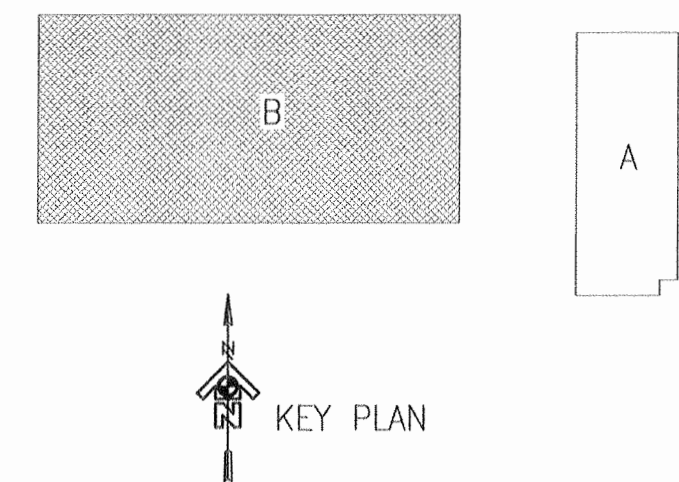


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PLAN NORTH TRUE NORTH
 1 NEW WMD READY BUILDING - FLOOR PLAN
 A2.1 SCALE: 3/16" = 1'-0"

- BASE BID**
 ALL WORK INVOLVED TO CONSTRUCT A COMPLETE METAL BUILDING TO INCLUDE ALL WALLS, EXTERIOR DOORS, OVERHEAD DOORS, WINDOWS, ALL CONCRETE SLABS, CURBS, PADS, BOLLARDS, APPROPRIATE PLUMBING AND FIXTURES, EXHAUST FANS, UNIT HEATERS, MAKE-UP AIR UNIT, HIGH-BAY LIGHTING, OUTLETS, PANELS, WIRING, EQUIPMENT, ETC.
- ALTERNATE #1**
 ALL ABOVE SLAB WORK IN THE LATRINES TO INCLUDE ALL WALLS, FINISHES, PLUMBING AND FIXTURES, LOCKERS, BENCHES, TOILET PARTITIONS, EQUIPMENT, ETC.
- ALTERNATE #2**
 ALL ABOVE SLAB WORK IN THE BREAKROOM, HALLWAY, UNIT STORAGE, AND FACILITY MAINTENANCE TO INCLUDE ALL WALLS, FINISHES, CABINETRY, PLUMBING AND FIXTURES, EQUIPMENT, ETC.



SCHEDULE B

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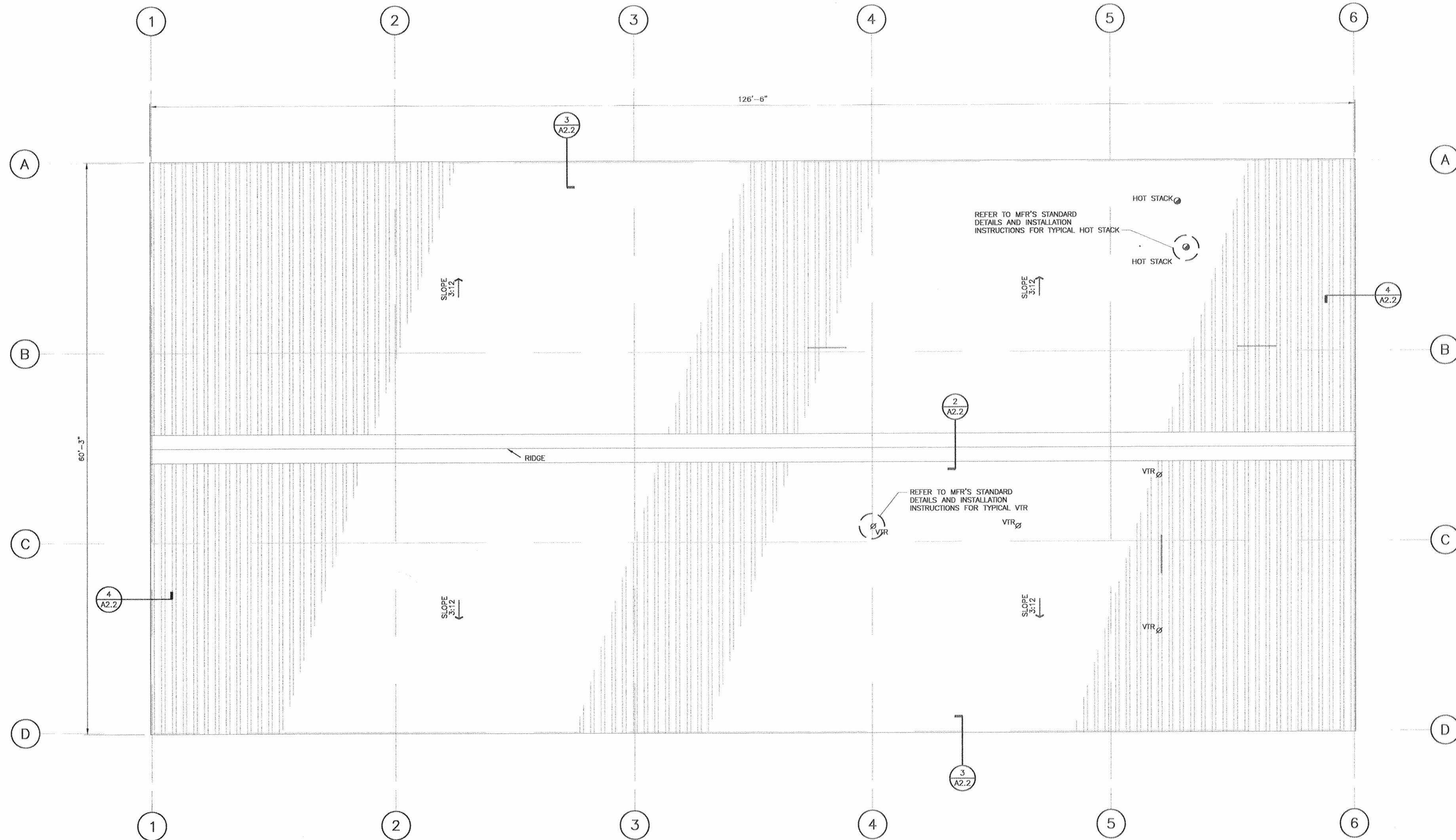
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Sheet Contents
 NEW WMD READY BUILDING FLOOR PLAN

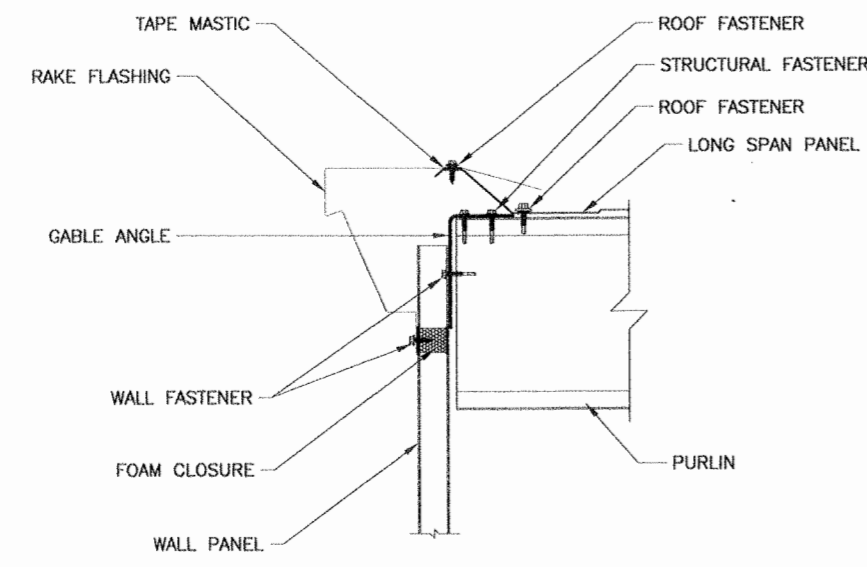
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Checked	KDM	
Date	30 JAN 03	USKH w.o. 584209



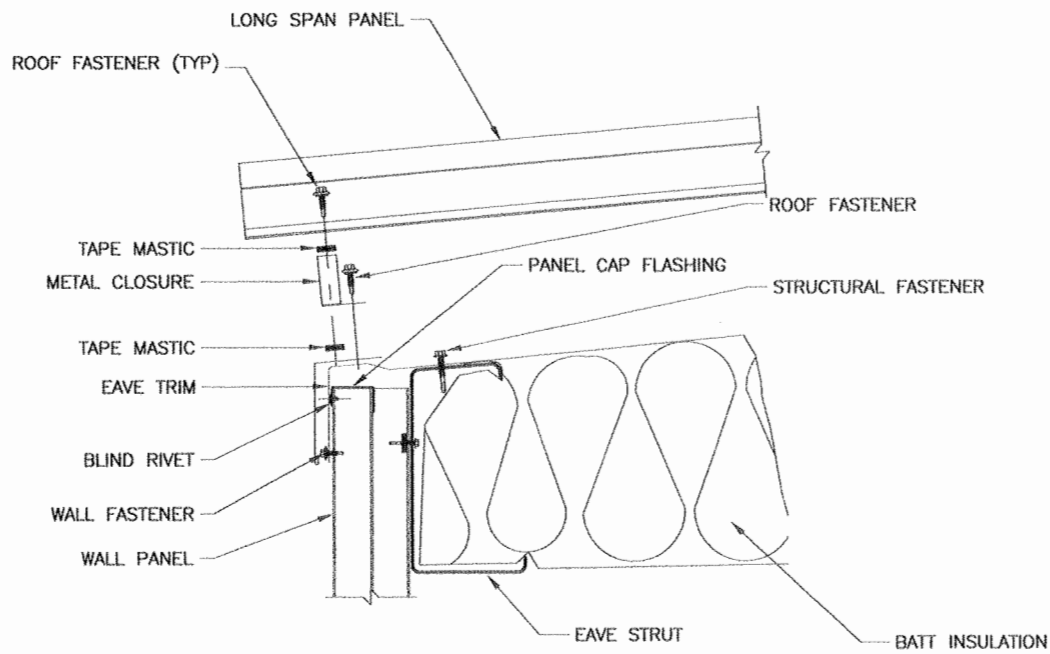
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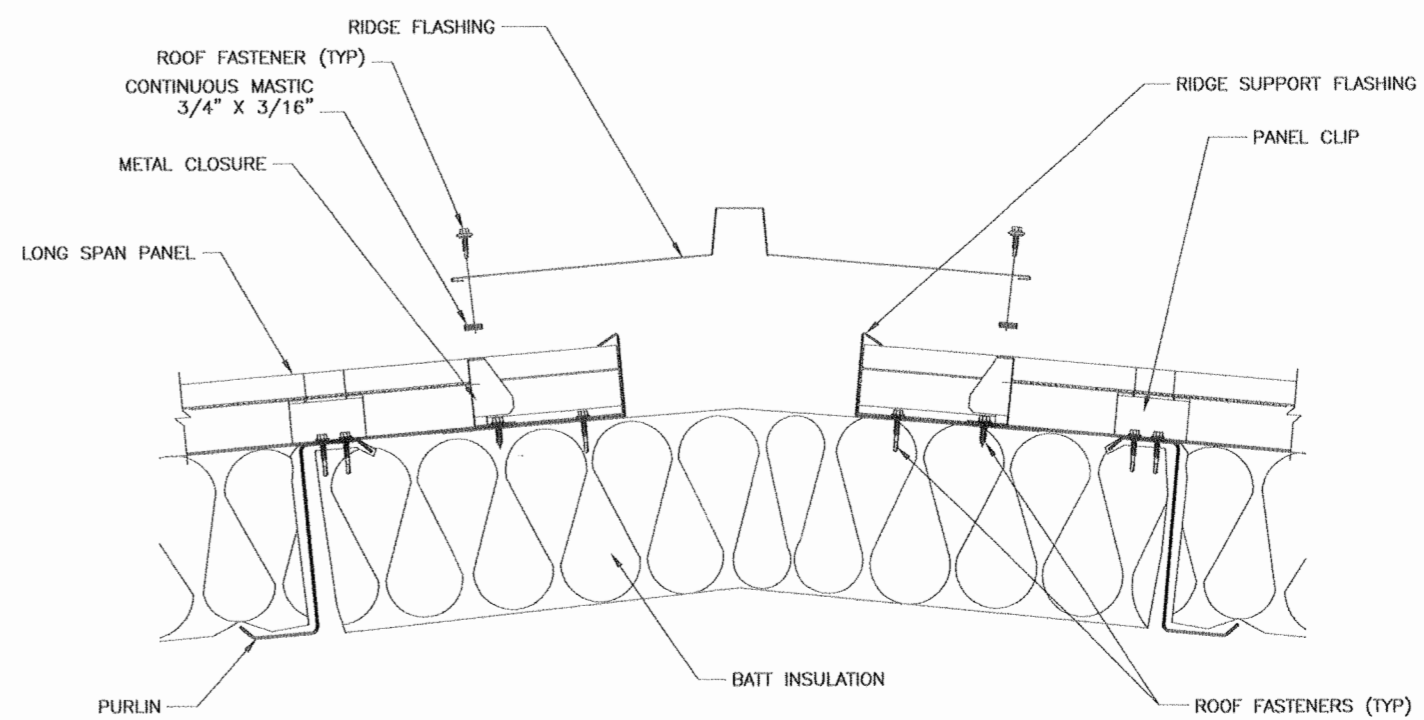
1 NEW WMD READY BUILDING - ROOF PLAN
 SCALE: 3/16" = 1'-0"



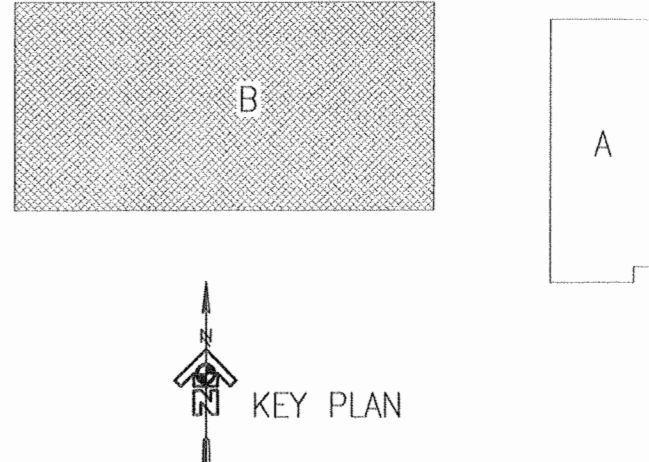
4 RAKE DETAIL
 SCALE: 1 1/2" = 1'-0"



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



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



BASE BID AND ALTERNATES NOTE:
 ALL WORK ON THIS SHEET IS PART OF THE BASE BID.

SCHEDULE B



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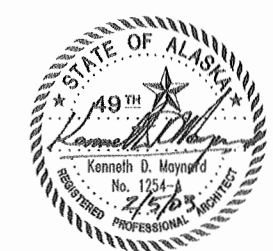
Project:
**READY BUILDING
 ADD/ALT (WMD)**
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 BRYANT AIRFIELD
 FORT RICHARDSON, ALASKA

PROJ No. 020171A

Date	Revision	By

Sheet Contents
**NEW WMD
 READY
 BUILDING
 ROOF PLAN**

Project Mgr.	KDM	Sheet No.
Drawn	MAB	A2.2
Drawn		
Checked	KDM	
Date	30 JAN 03	USKH w.o. 584209



RM. NO.	ROOM NAME	FLOOR				BASE			WALLS												CEILING				REMARKS	ROOM NAME	RM. NO.							
		EXIST. MAT.	NEW			EXIST. MAT.	NEW			NORTH			EAST			SOUTH			WEST			EXIST. MAT.	EXIST. HEIGHT	NEW										
			MAT.	FINISH	COLOR		MAT.	FINISH	COLOR	EXIST. MAT.	MAT.	FINISH	COLOR	EXIST. MAT.	MAT.	FINISH	COLOR	EXIST. MAT.	MAT.	FINISH	COLOR			EXIST. MAT.				MAT.	FINISH	COLOR	HEIGHT			
BUILDING 47432 AREA A																																		
A100	ENTRY	1/2	1/8	FF		1	FF		4	1/4	PT	P1	4/7	1/4	PT	P1	4	1/4	PT	P1	7	1/4	PT	P1	1	8'-11"	5	FF	ACT3	8'-6"	ENTRY	A100		
A101	UTILITY	2				1	FF		7	4	PT	P1	4	4	PT	P1	4	4	PT	P1	4	4	PT	P1	1	8'-11"	1	PT	P5	8'-11"	UTILITY	A101		
A102	STAIRS	2				1	FF		7	7	PT	P1	4	7	PT	P1	7	7	PT	P1	7	7	PT	P1	4	VARIES	4	PT	P5	VARIES	STAIRS	A102		
A102A	STORAGE	2				1	FF		7	7	PT	P1	4	7	PT	P1	7	7	PT	P1	7	7	PT	P1	4	VARIES	4	PT	P5	VARIES	STORAGE	A102A		
A103	WOMEN'S LAIRINE	2/5	5"	FF		2	2	FF		1/3/7	1/3	PT/FF	P1/CT2	1/3/4	1/3	PT/FF	P1/CT2	1/3/4	1/3	PT/FF	P1/CT2	1/3/4	1/3	PT/FF	P1/CT2	7	8'-11"	3	PT	P5	8'-6"	* PATCH TILE ONLY	WOMEN'S LAIRINE	A103
A104	MEN'S LAIRINE	2/5	5"	FF		2	2	FF		1/3/7	1/3	PT/FF	P1/CT2	1/3/4	1/3	PT/FF	P1/CT2	1/3/4	1/3	PT/FF	P1/CT2	1/3/4	1/3	PT/FF	P1/CT2	7	8'-11"	3	PT	P5	8'-6"	* PATCH TILE ONLY	MEN'S LAIRINE	A104
A105	ADMIN	2	3	FF		1	FF		4	1/4/7	PT	P1	7	1/4/7	PT	P1	4	1/4/7	PT	P1	4/7	1/4/7	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	ADMIN	A105		
A105A	STORAGE	2	4	FF		1	FF		4	1	PT	P1	7	7	PT	P1		1	PT	P1	4	1	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	STORAGE	A105A		
A106	OPS	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1	4	1	PT	P1	7	1	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	OPS	A106		
A107	IM/COMO NCO	2	3	FF		1	FF						7	1	PT	P1	4	1	PT	P1	4/7	1	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	IM/COMO NCO	A107		
A108	TRAINING/MOD NCO	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1	4	1	PT	P1	7	1	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	TRAINING/MOD NCO	A108		
A109	SUPPLY NCO	2	3	FF		1	FF		4	1	PT	P1	7	1	PT	P1	7	1	PT	P1	4/7	1	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	SUPPLY NCO	A109		
A110	OPS NCO	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1	7	1	PT	P1	7	1	PT	P1	6	8'-11"	2	FF	ACT1	8'-6"	OPS NCO	A110		
A111	STORAGE	2				1	FF		7	7	PT	P1	7	7	PT	P1	7	7	PT	P1	7	7	PT	P1	4	VARIES	4	PT	P5	VARIES	STORAGE	A111		
A112	STAIRS	2	1/8	FF		1	FF		7	7	PT	P1	7	7	PT	P1	7	7	PT	P1	7	7	PT	P1	1	VARIES	2	FF	ACT1	VARIES	STAIRS	A112		
A200	COMMANDER	2	3	FF		1	FF		7	1	PT	P1	4/7	1	PT	P1	4	1	PT	P1	4	1	PT	P1	7	8'-8"	2	FF	ACT1	8'-6"	COMMANDER	A200		
A201	MEN'S LAIRINE	2/5	5"	FF		2	2	FF		1/3	1/3	PT/FF	P1/CT2	1/3	1/3	PT/FF	P1/CT2	1/3	1/3	PT/FF	P1/CT2	1/3	1/3	PT/FF	P1/CT2	7	8'-8"	3	PT	P5	8'-6"	* PATCH TILE ONLY	MEN'S LAIRINE	A201
A202	PA EXAM	2	8	FF		1	FF		4/7	1	PT	P1	4	1	PT	P1	4	1	PT	P1	4/7	1	PT	P1	7	8'-8"	3	PT	P5	8'-6"	PA EXAM	A202		
A202A	STORAGE	2	8	FF		1	FF		4/7	1	PT	P1	4	1	PT	P1	4	1	PT	P1	4/7	1	PT	P1	7	8'-8"	3	PT	P5	8'-6"	STORAGE	A202A		
A203	DEPUTY COMMANDER	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1	4	1	PT	P1	4	1	PT	P1	7	8'-8"	2	FF	ACT1	8'-6"	DEPUTY COMMANDER	A203		
A204	PA/MED NCO	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1	4	1	PT	P1	4/7	1	PT	P1	7	8'-8"	2	FF	ACT1	8'-6"	PA/MED NCO	A204		
A205	FIRST SERGEANT	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1		1	PT	P1		1	PT	P1	6	8'-8"	2	FF	ACT1	8'-6"	FIRST SERGEANT	A205		
A206	NMSO MED OPS	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1		1	PT	P1	4/7	1	PT	P1	6	8'-8"	2	FF	ACT1	8'-6"	NMSO MED OPS	A206		
A207	CONFERENCE/CLASSROOM	2	3	FF		1	FF		4	1	PT	P1	4/7	1	PT	P1	7	1	PT	P1	4/7	1	PT	P1	6	8'-8"	2	FF	3/ACT2	VARIES	CONFERENCE/CLASSROOM	A207		
A208	CORRIDOR	2	3	FF		1	FF		1	1	PT	P1	4/7	1	PT	P1		1	PT	P1	4/7	1	PT	P1	6/7	8'-8"	2	FF	ACT1	8'-6"	CORRIDOR	A208		

Notes:

NO.	FLOOR MATERIAL	NO.	BASE MATERIAL	NO.	WALL MATERIAL	NO.	CEILING MATERIAL	NO.	MATERIAL FINISH LEGEND
1	METAL GRATE	1	RESILIENT WALL BASE	1	GYPSUM BOARD	1	EXPOSED STRUCTURE AND DECK	FF	FACTORY FINISH
2	CONCRETE	2	CERAMIC TILE	2	NOT USED	2	SUSPENDED ACOUSTIC TILE AND GRID	PT	PAINT
3	CARPET			3	CERAMIC TILE	3	GYPSUM BOARD	S	SEALER
4	VINYL COMPOSITION TILE (VCT)			4	CMU-STANDARD BLOCK	4	CONCRETE		
5	CERAMIC TILE			5	NOT USED	5	LINEAR METAL SOFFIT PANEL		
6	RUBBER TILE			6	NOT USED	6	ACOUSTIC TILE GLUED TO BOTTOM OF CONC DECK		
7	ENTRY MAT			7	CONCRETE	7	LATH AND PLASTER		
8	SHEET VINYL								

FINISH / COLOR LEGEND								
CODE	DESCRIPTION	MFR / STYLE / COLOR	CODE	DESCRIPTION	MFR / STYLE / COLOR	CODE	DESCRIPTION	MFR / STYLE / COLOR
FLOORING			WALL TREATMENTS			CEILING TREATMENTS		
C1	GENERAL CARPET		CT2	CERAMIC WALL TILE 4" X 4"		P5	CEILING PAINT	
VCT1	GENERAL VINYL TILE (VCT)		P1	GENERAL PAINT		ACT1	CEILING PANEL	
CT1	EXISTING CERAMIC FLOOR TILE TO REMAIN		P2	ACCENT PAINT, HM FRAMES		ACT2	SPECIAL ACOUSTIC CEILING TILE	
P6	EPOXY PAINT		P3	ACCENT PAINT DOORS		ACT3	LINEAR METAL SOFFIT PANEL	
			P4	ACCENT PAINT				
WALL BASE			MILLWORK FINISHES			TOILET PARTITIONS		
RB1	RUBBER BASE		PL1	PLASTIC LAMINATE		TP	TOILET PARTITION	
CB	CERAMIC FLOOR TILE		W	WOOD				

G TYPE G-EXTERIOR

G1 - OMIT EIFS @ STAIRWELL WALLS

E TYPE E-WALL CHASE

E1 - PROVIDE GWB ON METAL STUDS IN LIEU OF HAT CHANNELS & SILICONE B.B. AND CERAMIC TILE AS NECESSARY

C TYPE C-INTERIOR

C1 - PROVIDE STL STUDS AND GWB ON BOTH SIDES

A TYPE A-EXTERIOR

A1 - EXIST CERAMIC TILE OVER METAL LATH & PLASTER TO BE REFURBISHED

FINISH NOTES

- FRAMED WALLS HAVE 5/8" GWB AS BASE FOR FINISHES. U.N.O.
- EXTERIOR CMU WALLS SHALL BE COVERED W/ 6 MIL VAPOR BARRIER
- EXISTING CERAMIC TILE FLOORS IN LAIRINES SHALL BE ACID WASHED
- EXISTING CERAMIC WALL TILE IN LAIRINES SHALL BE REPAIRED, REPLACED, AND REFINISHED AS NECESSARY

F TYPE F-INTERIOR

F1 - PROVIDE 5 1/2" STL STUDS

NOTE: AT SIM., OMIT GWB

F2 - PROVIDE FULL THICKNESS SOUND INSULATION (FULL THICKNESS)

D TYPE D-INTERIOR

D1 - PROVIDE CERAMIC TILE OVER SILICONE B.B. & HAT CHANNELS IN LIEU OF STL STUDS & GWB

D2 - EXIST TILE OVER METAL LATH & PLASTER TO BE REFURBISHED

D3 - PROVIDE HAT CHANNELS IN LIEU OF STL STUDS

B TYPE B-INTERIOR

B1 - PROVIDE HAT CHANNELS AND GWB ON BOTH SIDES

COLORS:

- AS SELECTED FROM MANUFACTURERS STANDARD LINE BY CONTRACTING OFFICER'S REPRESENTATIVE DURING CONSTRUCTION.
- P1 = WHITE WHISPER
- P6 = EPOXY PAINT, WHITE WHISPER UNO

BASE BID AND ALTERNATES NOTE:
ALL WORK ON THIS SHEET IS PART OF THE BASE BID.

SCHEDULE A

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Project:
**READY BUILDING
ADD/ALT (WMD)**
ALASKA ARMY NATIONAL GUARD
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

PROJ No. 020171A

Date	Revision	By

Sheet Contents

Project Mgr.	KDM	Sheet No.
Drawn		A2.3
Drawn		
Checked	KDM	
Date	30 JAN 03 USKH W.O. 584209	

**ROOM FINISH
SCHEDULE,
WALL TYPES, AND
DETAILS**



RM. NO.	ROOM NAME	FLOOR			BASE			WALLS												CEILING				REMARKS	ROOM NAME	RM. NO.
		MAT.	FINISH	COLOR	MAT.	FINISH	COLOR	NORTH			EAST			SOUTH			WEST			MAT.	FINISH	COLOR	HEIGHT			
								MAT.	FINISH	COLOR	MAT.	FINISH	COLOR	MAT.	FINISH	COLOR	MAT.	FINISH	COLOR							
NEW WMD BUILDING AREA B																										
B101	MECH/ELEC/TELECO EQUIPMENT	2	P6	--	1	FF	RB1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P5	VARIES		MECH/ELEC/TELECO EQUIPMENT	B101
B102	BREAKROOM & VENDING	4	FF	--	1	FF	RB1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P1	10'-0"		BREAKROOM & VENDING	B102
B103	FACILITY MAINTENANCE	2	P6	--	1	FF	RB1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P1	1	FF	ACT1	10'-0"		FACILITY MAINTENANCE	B103
B104	MEN'S LAIRINE	4	FF	--	1	FF	RB1	1	PT	P1	1/2	P1/FF	P1/FF	1	PT	P1	1	PT	P1	3	PT	P5	10'-0"		MEN'S LAIRINE	B104
B104A	MEN'S SHOWER	5	FF	--	3	FF	--	3	FF	--	3	FF	--	3	FF	--	3	FF	--	3	PT	P5	9'-0"	SHOWER WALLS TO BE 2, FLOOR TO BE CT1 W/ CT1 BASE	MEN'S SHOWER	B104A
B105	STORAGE	2	P6	--	1	FF	RB1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P1	1	FF	ACT1	10'-0"		STORAGE	B105
B106	WOMEN'S LAIRINE	4	FF	--	1	FF	RB1	1	PT	P1	1	PT	P1	1	PT	P1	1	PT	P1	3	PT	P5	9'-0"	DRYING AREA FLOOR TO BE CT1 W/ CT1 BASE	WOMEN'S LAIRINE	B106
B107	VEHICLE READY BAYS	2	P6	--	--	--	--	6	FF	--	1	PT	P1	6	FF	--	6	FF	--	1	PT	P5	VARIES		VEHICLE READY BAYS	B107

NO.	FLOOR MATERIAL	NO.	BASE MATERIAL	NO.	WALLS MATERIAL	NO.	CEILING MATERIAL	NO.	MATERIAL FINISH LEGEND
1	METAL GRATE	1	RESILIENT WALL BASE	1	GYPSUM BOARD	1	EXPOSED STRUCTURE AND DECK	FF	FACTORY FINISH
2	CONCRETE	2	CERAMIC TILE	2	FIBERGLASS REINFORCED PLASTIC PANEL	2	SUSPENDED ACOUSTIC TILE AND GRID	PT	PAINT
3	CARPET			3	CERAMIC TILE	3	GYPSUM BOARD	S	SEALER
4	VINYL COMPOSITION TILE (VCT)			4	CMU-STANDARD BLOCK	4	CONCRETE		
5	CERAMIC TILE			5	ACOUSTIC WALL PANEL	5	PERFORATED METAL ACOUSTIC PANEL (PMP)		
6	RUBBER TILE			6	METAL WALL LINER PANEL	6	ACOUSTIC TILE GLUED TO BOTTOM OF CONC DECK		
7	ENTRY MAT			7	CONCRETE	7	LATH AND PLASTER		
8	SHEET VINYL								

FINISH / COLOR LEGEND					
CODE	DESCRIPTION	MANUFACTURER / STYLE / COLOR	CODE	DESCRIPTION	MANUFACTURER / STYLE / COLOR
FLOORING			MILLWORK FINISHES		
CT1	CERAMIC FLOOR TILE 2" X 2"		PL1	PLASTIC LAMINATE	
VCT1	GENERAL VINYL TILE (VCT)		PL2	PLASTIC LAMINATE	
P6	HARDENER / SEALER		W	WOOD	
WALL BASE			TOILET PARTITIONS		
RB1	RUBBER BASE		TP	TOILET PARTITION	
CB	CERAMIC FLOOR TILE				
WALL TREATMENTS			EXTERIOR COLORS		
CT2	CERAMIC WALL TILE 4" X 4"		FASCIA AND COPING		
P1	GENERAL PAINT		METAL WALL PANELS		
P2	ACCENT PAINT, HM FRAMES		WINDOW/DOOR FRAMES		
P3	ACCENT PAINT DOORS		DOORS		
P4	ACCENT PAINT				
CEILING TREATMENTS			MISCELLANEOUS		
P5	CEILING PAINT		L	LOCKERS	
ACT1	CEILING TILE (2 X 4)		B	BLINDS	
			D	DUCTS (PAINT)	
			CG	CORNER GUARD	

FINISH NOTES

- FRAMED WALLS HAVE 5/8" CWB AS BASE FOR FINISHES, U.N.O.
- CERAMIC TILE FLOORS SHALL BE MATT FINISH W/APPROX. 10% ACCENT COLOR
- CERAMIC TILE WALL SHALL BE SEMI-GLOSS FINISH W/APPROX. 10% ACCENT COLOR AND C.T. BASE SHALL BE 100% ACCENT COLOR.
- EPOXY PAINT WET AREA CEILINGS.
- ALL FLOORS SHALL BE SEALED WITH CONCRETE SEALER, U.N.O.
- EPOXY PAINT OR EQUAL ON FLOORS AT FOLLOWING AREAS: B115, B116 AREA "E", F102/F103.
- 4" WIDE PAINTED WARNING/SAFETY LINES SHALL BE PROVIDED AT ALL EQUIPMENT, STORAGE, WORK, VEHICLE MAINTENANCE, AND MECHANICAL AND ELECTRICAL ROOMS, U.N.O., NOT ALL LINES SHOWN. COORDINATE WITH OWNER FOR FINAL LINE LOCATIONS.
- PAINT COMPLETELY ALL EXPOSED-TO-VIEW SURFACES.
- PROVIDE 4"x4"x6"x1/8" STAINLESS STEEL CORNER GUARDS @ ALL EXPOSED OUTSIDE WALL CORNERS -- UNLESS NOTED OTHERWISE

COLORS:

- AS SELECTED FROM MANUFACTURERS STANDARD LINE BY CONTRACTING OFFICERS REPRESENTATIVE DURING CONSTRUCTION.
- P1 = WHITEWHISPER
- P6 = EPOXY PAINT, WHITE WHISPER UND.

Notes:

MECH/ELEC/TELECO EQUIPMENT	B101
BREAKROOM & VENDING	B102
FACILITY MAINTENANCE	B103
MEN'S LAIRINE	B104
MEN'S SHOWER	B104A
STORAGE	B105
WOMEN'S LAIRINE	B106
VEHICLE READY BAYS	B107

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Project:
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 ALASKA ARMY NATIONAL GUARD
 BRYANT AIRFIELD
 FORT RICHARDSON, ALASKA

PROJ No. 020171A

Date	Revision	By

Sheet Contents
ROOM FINISH SCHEDULE & COLOR SCHEDULE

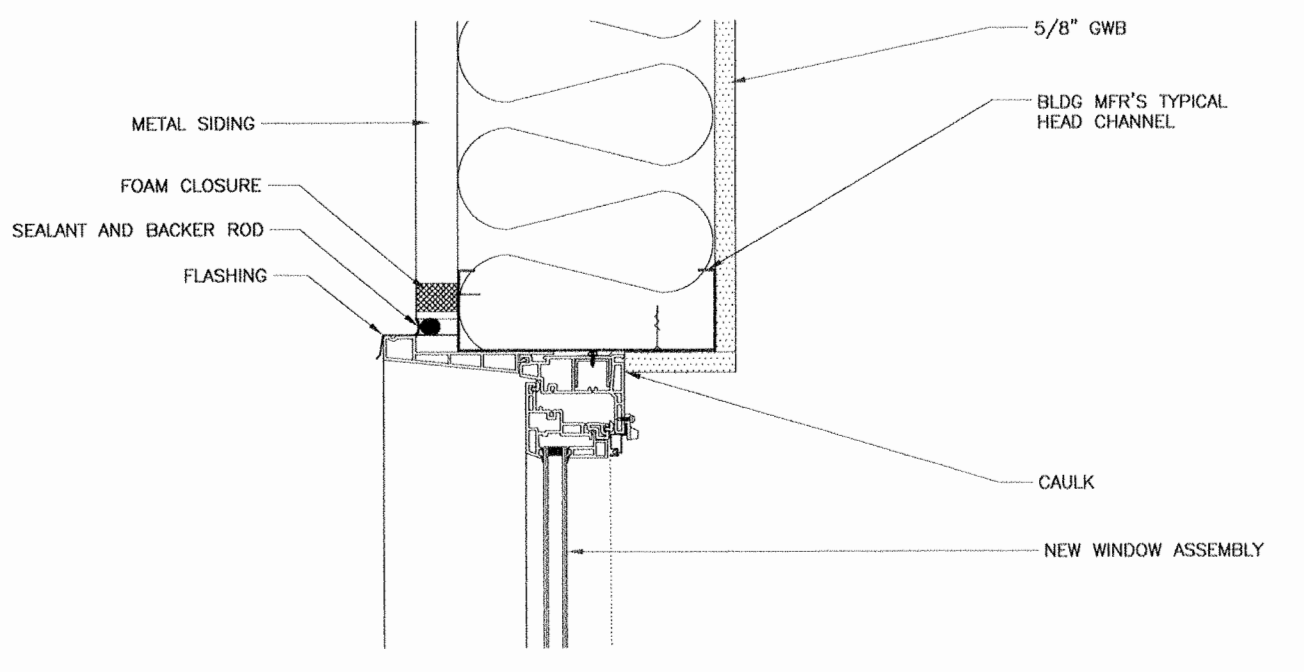
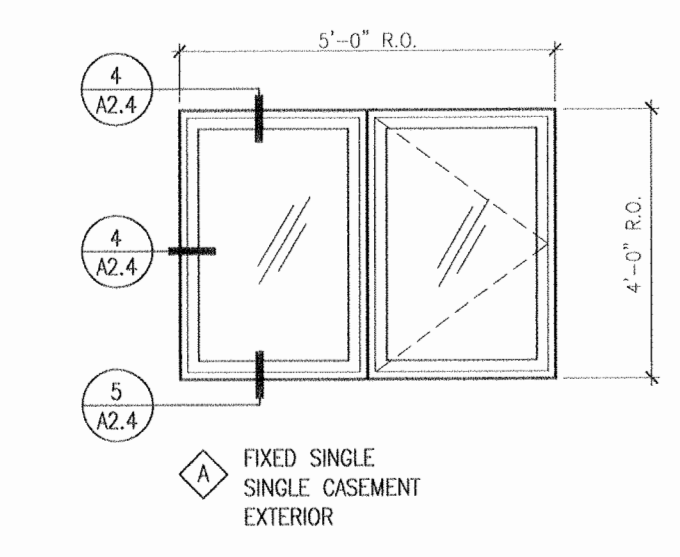
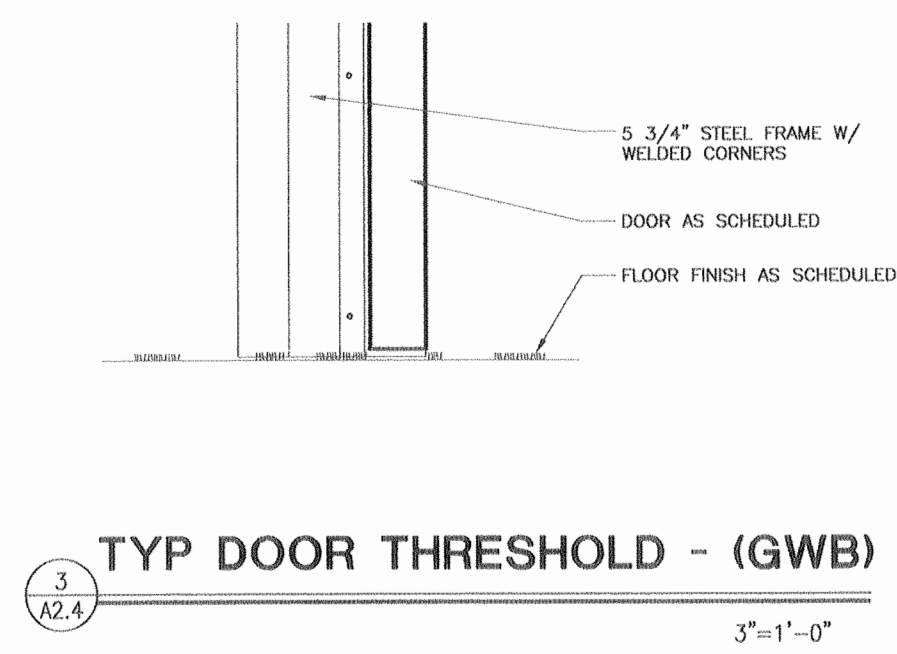
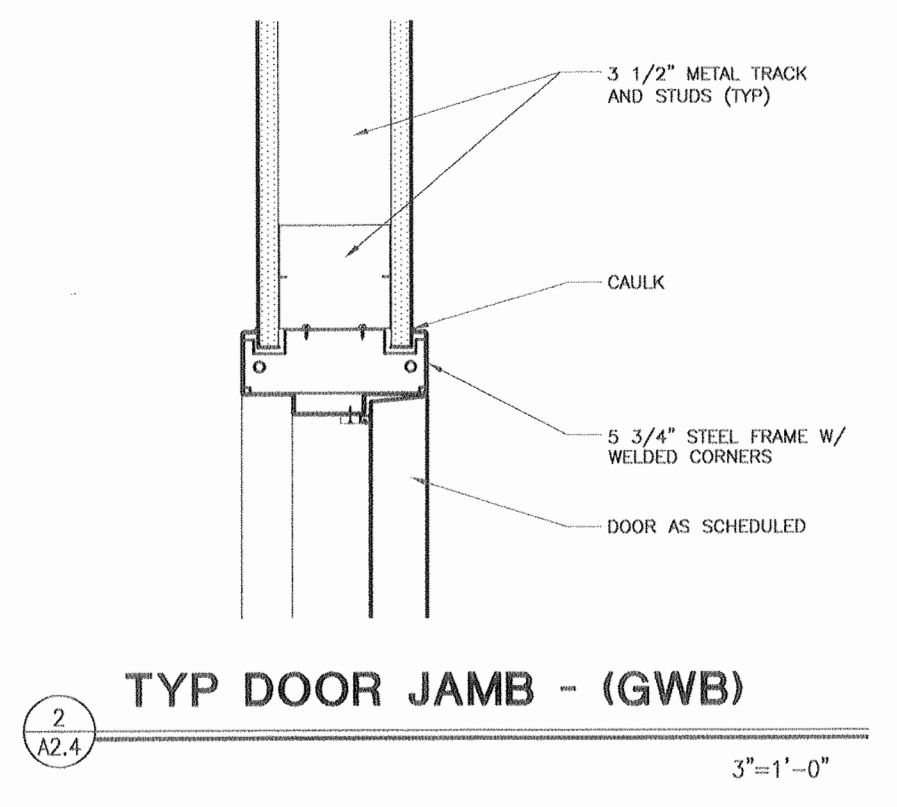
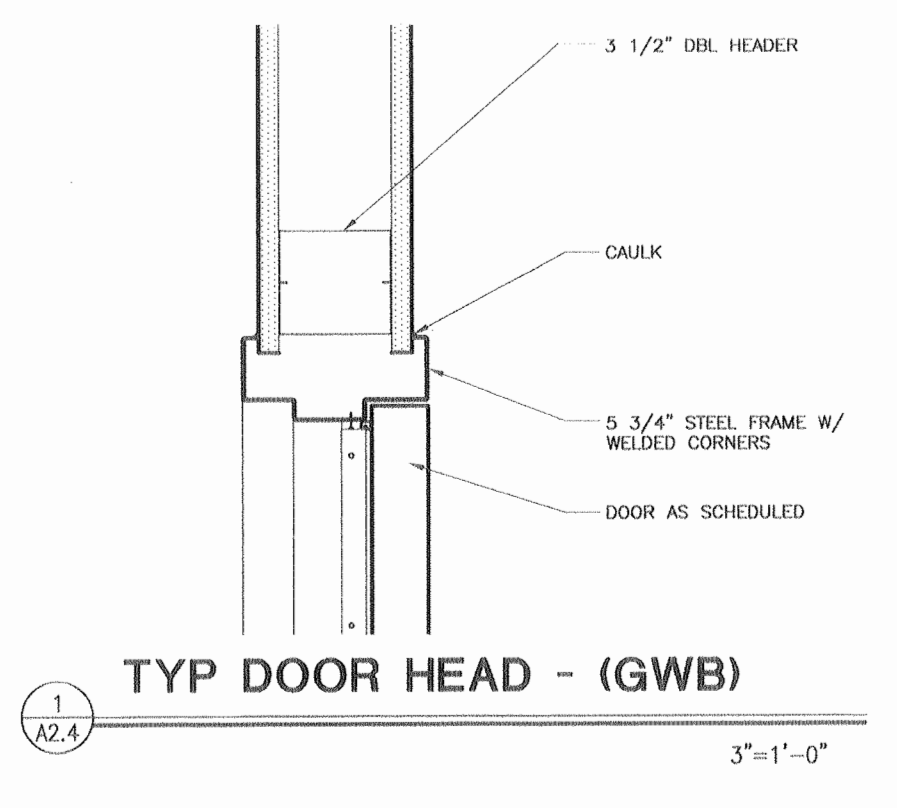
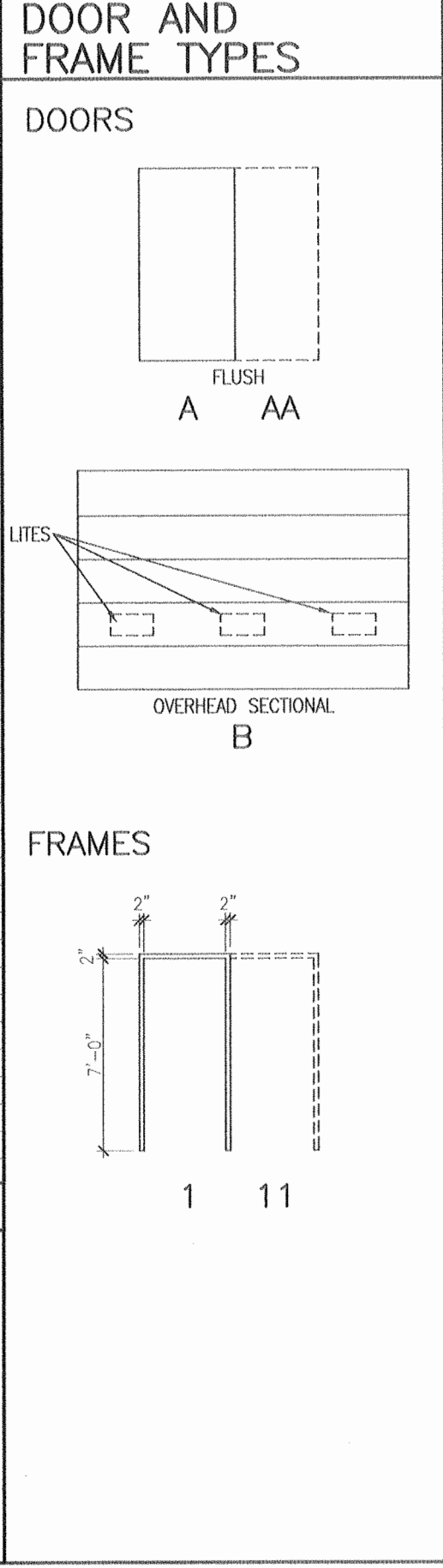
BASE BID AND ALTERNATES NOTE:
 WORK ON THIS SHEET DESCRIBES BASE BID ITEMS AND ALTERNATES #1 & #2. REFER TO OTHER ARCHITECTURAL SHEETS FOR EXTENTS OF WORK.

DOOR SCHEDULE

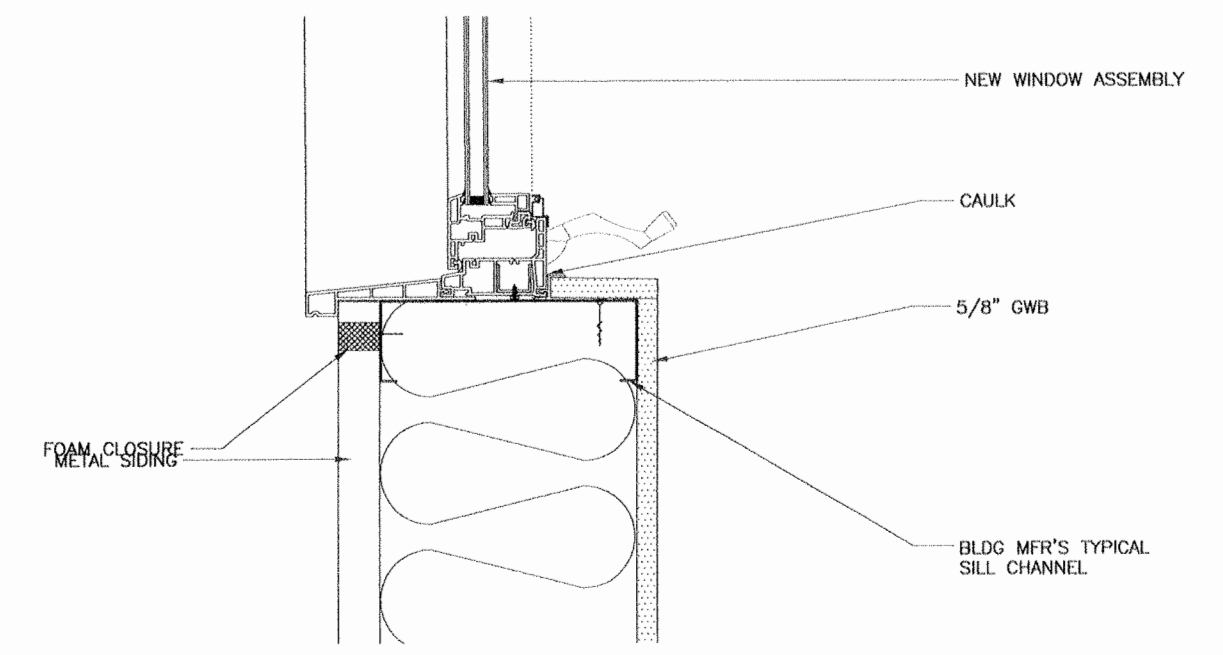
DOOR NUMBER	DOOR							FRAME							REMARKS	DOOR AND FRAME TYPES	
	SIZE			TYPE (2)	CONSTRUCTION (3)	FACING / FINISH (4)	GLAZING (5)	RATING	DETAILS			CONSTRUCTION (3)	FACING / FINISH (4)	RELITE GLAZING (5)			HARDWARE GROUP
	WIDTH	HEIGHT	THICKNESS (1)						HEAD	JAMB	THRESHOLD						
NEW WMD BUILDING AREA B																	
101	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	1	(BASE BID)	101	
102	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	6	(ALTERNATE #2)	102	
103	2X3-0	7-0	1-3/4	A	HM		1 1/2 HR	11	11	1/A2.4	2/A2.4	3/A2.4	HM	7	(BASE BID)	103	
104	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	6	(ALTERNATE #2)	104	
105	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	4	(ALTERNATE #1)	105	
106	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	4	(ALTERNATE #1)	106	
107	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	8	(ALTERNATE #2)	107	
108	3-0	7-0	1-3/4	A	HM		1 1/2 HR	11	11	1/A2.4	2/A2.4	3/A2.4	HM	9	(ALTERNATE #2)	108	
109	2X3-0	7-0	1-3/4	A	HM		1 1/2 HR	11	11	1/A2.4	2/A2.4	3/A2.4	HM	7	(BASE BID)	109	
110	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	1	(BASE BID)	110	
111	3-0	7-0	1-3/4	A	HM		1 1/2 HR	1	1	1/A2.4	2/A2.4	3/A2.4	HM	1	(BASE BID)	111	
112	10-0	10-0	-	B	M		-	-	-	-	-	-	-	-	NO HDW - MOTOR CONTROLLED (BASE BID)	112	
113	20-0	10-0	-	B	M		-	-	-	-	-	-	-	-	NO HDW - MOTOR CONTROLLED (BASE BID)	113	
114	20-0	10-0	-	B	M		-	-	-	-	-	-	-	-	NO HDW - MOTOR CONTROLLED (BASE BID)	114	
115	10-0	10-0	-	B	M		-	-	-	-	-	-	-	-	NO HDW - MOTOR CONTROLLED (BASE BID)	115	
116	20-0	10-0	-	B	M		-	-	-	-	-	-	-	-	NO HDW - MOTOR CONTROLLED (BASE BID)	116	
117	20-0	10-0	-	B	M		-	-	-	-	-	-	-	-	NO HDW - MOTOR CONTROLLED (BASE BID)	117	

GENERAL NOTES

- ALL DOORS ARE 1 3/4" THICK, UNLESS NOTED OTHERWISE.
- DOOR TYPES - SEE ELEVATIONS. (ALL DOORS MUST MEET MANUFACTURED STANDARD DIMENSIONS, WARRANTY AND CODE REQUIREMENTS FOR RATED DOORS.)
- WD = SOLID CORE WOOD
HM (DOOR) = STEEL GALVANIZED
HM (FRAME) = STEEL, GALVANIZED TO MATCH H.M. DOORS.
HM (FRAME) = STEEL, PRIMED WHEN DOOR IS INTERIOR SOLID CORE WOOD
M = STEEL WITH FACTORY APPLIED POWDER FINISH
AL = ALUMINUM
- ALUMINUM & WOOD DOORS ARE FACTORY FINISH (FF). HM DOORS & FRAMES ARE FIELD PAINTED.
- DOOR GLAZING TYPE FOR DOORS & FRAMES:
TYPE B - 1" INSULATED LAMINATED SAFETY GLASS
EXTERIOR SIDELITES AND TRANSOMS - 1" INSUL. LAMINATED SAFETY GLASS.
- PROVIDE METAL TRANSITION CENTER UNDER DOOR FOR ALL CERAMIC OR QUARRY TILE FLOOR JUNCTURE WITH OTHER FLOOR MATERIAL.
- COORDINATE WITH DOOR TYPE.
- ALL DOOR AND RELITE FRAMES FULLY WELDED.
- ALL DOORS AT EXTERIOR OF BUILDING SHALL BE INSULATED.



TYP WINDOW HEAD
JAMB SIM 3"=1'-0"



TYP WINDOW SILL
3"=1'-0"

BASE BID AND ALTERNATES NOTE:
WORK ON THIS SHEET DESCRIBES BASE BID ITEMS AND ALTERNATES #1 & #2. REFER TO OTHER ARCHITECTURAL SHEETS FOR EXTENTS OF WORK.

SCHEDULE B



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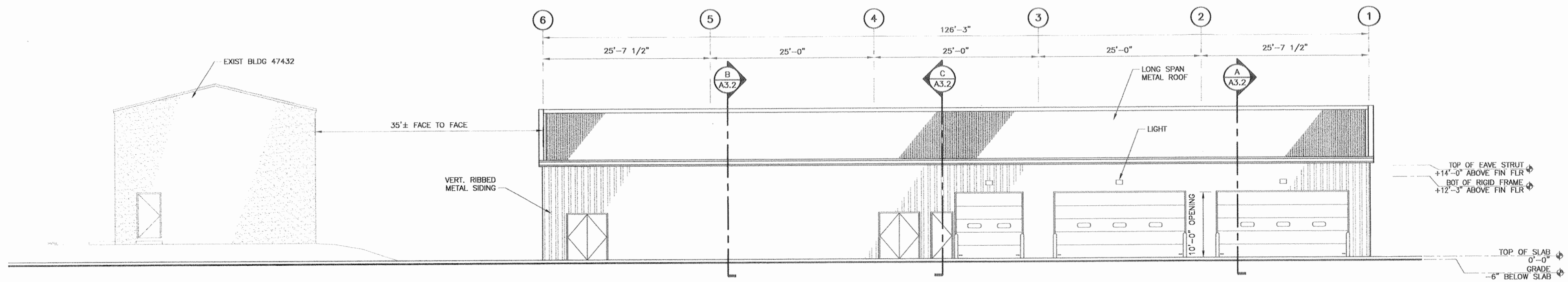
Sheet Contents

**DOOR AND WINDOW
SCHEDULES, TYPES,
AND OPENINGS
DETAILS**

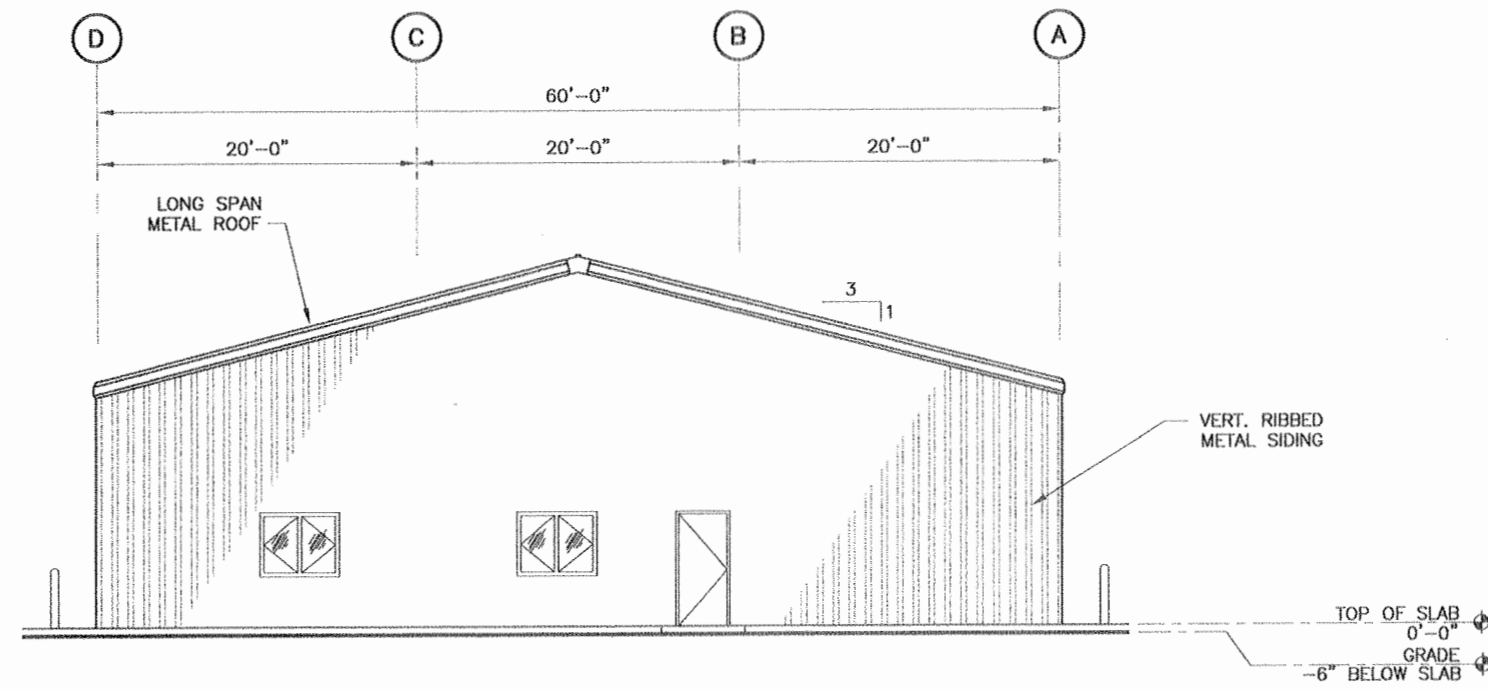
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Drawn	MAB	A2.4
Drawn		
Checked	KDM	
Date	30 JAN 03	USKH W.O. 584209



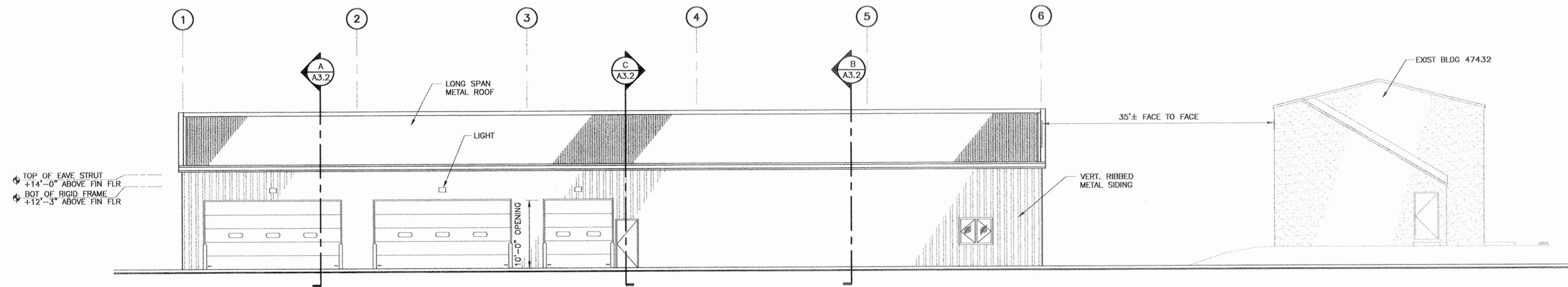
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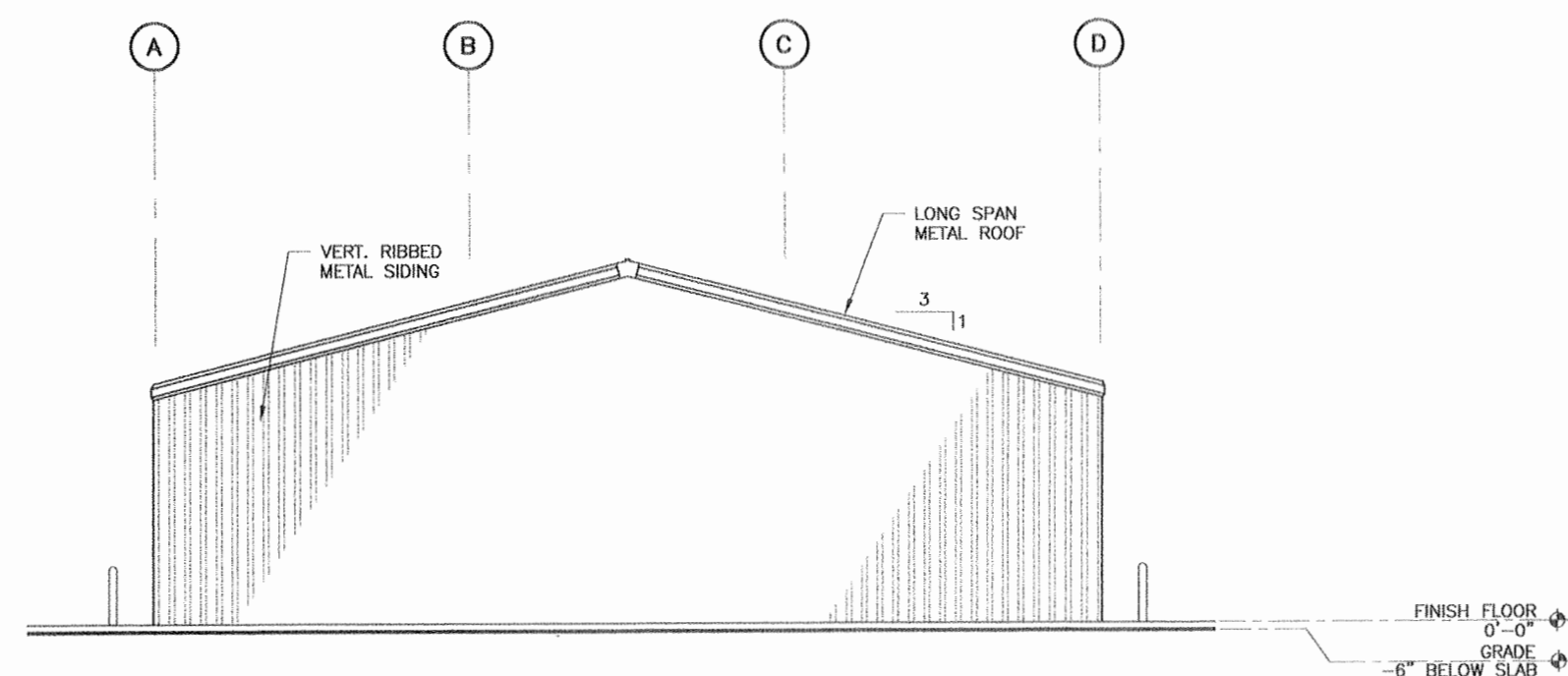
1 NEW WMD READY BUILDING NORTH EXTERIOR ELEVATION
A3.1 SCALE: 1/8" = 1'-0"



2 NEW WMD READY BUILDING EAST EXTERIOR ELEVATION
A3.1 SCALE: 1/8" = 1'-0"



3 NEW WMD READY BUILDING SOUTH EXTERIOR ELEVATION
A3.1 SCALE: 1/8" = 1'-0"



4 NEW WMD READY BUILDING WEST EXTERIOR ELEVATION
A3.1 SCALE: 1/8" = 1'-0"

BASE BID AND ALTERNATES NOTE:
ALL WORK ON THIS SHEET IS PART OF THE BASE BID.

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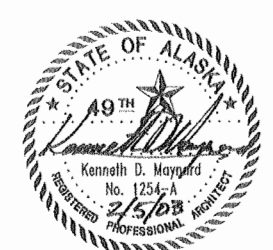
PROJ No. 020171A

Date	Revision	By

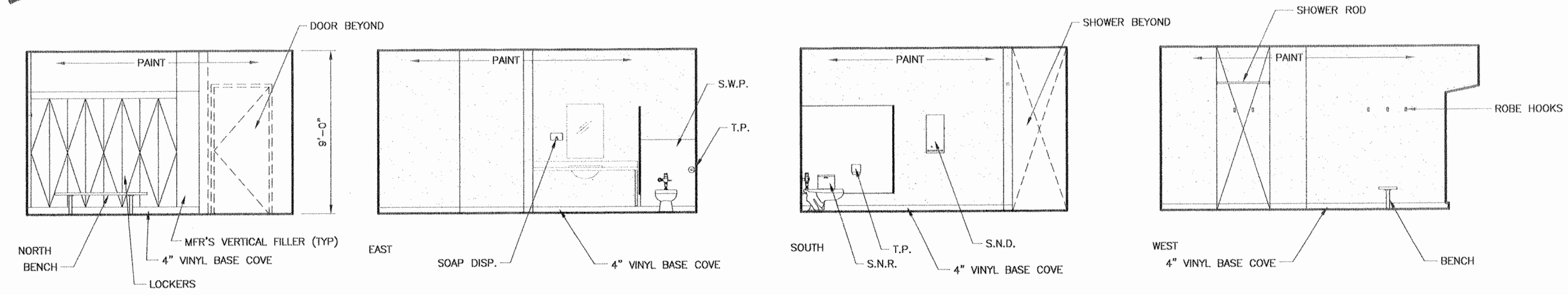
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NEW WMD READY BUILDING EXTERIOR ELEVATIONS

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Drawn	MAB	A3.1
Drawn		
Checked	KDM	
Date	30 JAN 03	USKH w.o. 584209

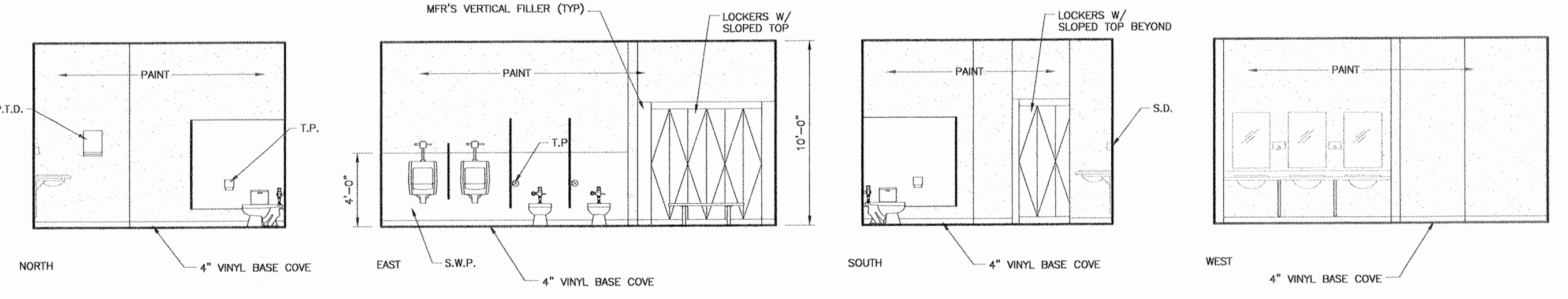
SCHEDULE B



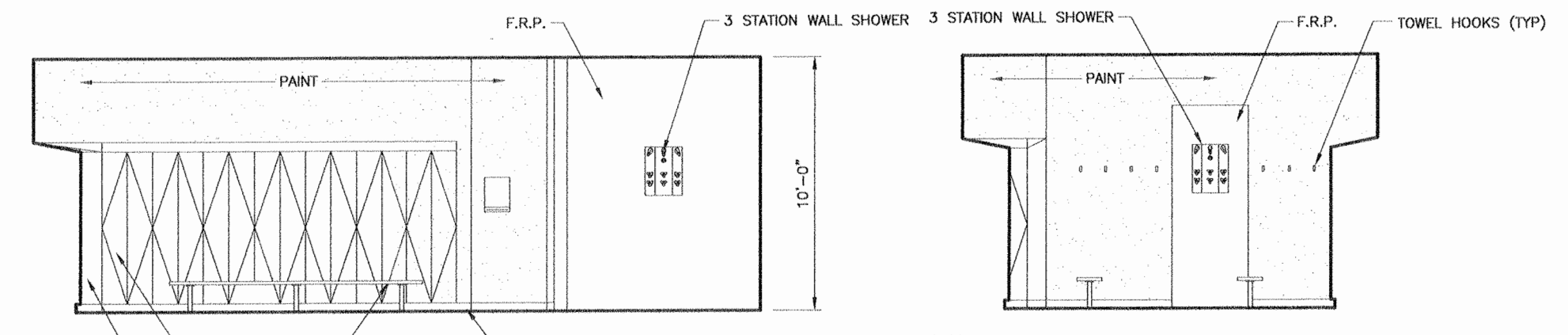
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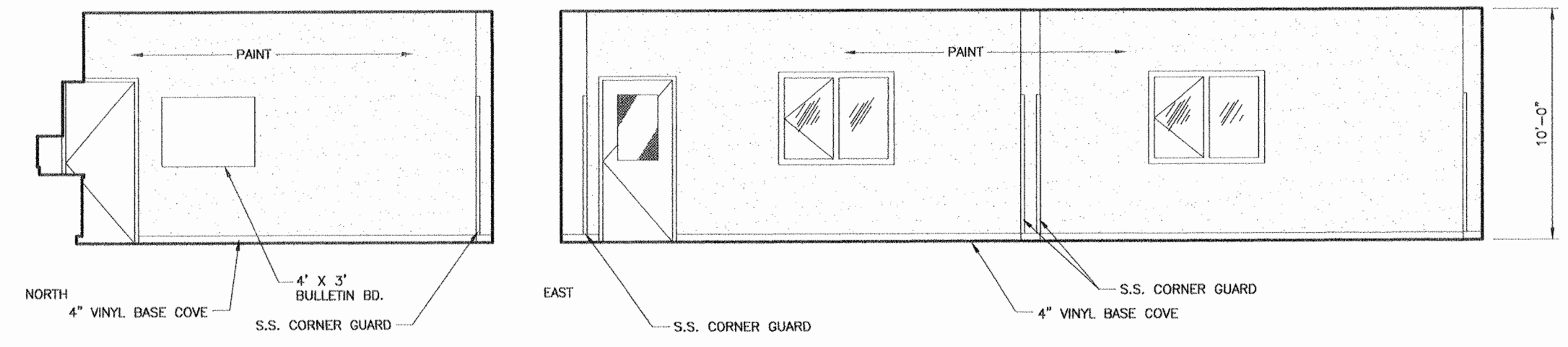
3 NEW WMD READY BUILDING -- WOMEN LATRINE ELEVATIONS
SCALE: 1/4" = 1'-0"



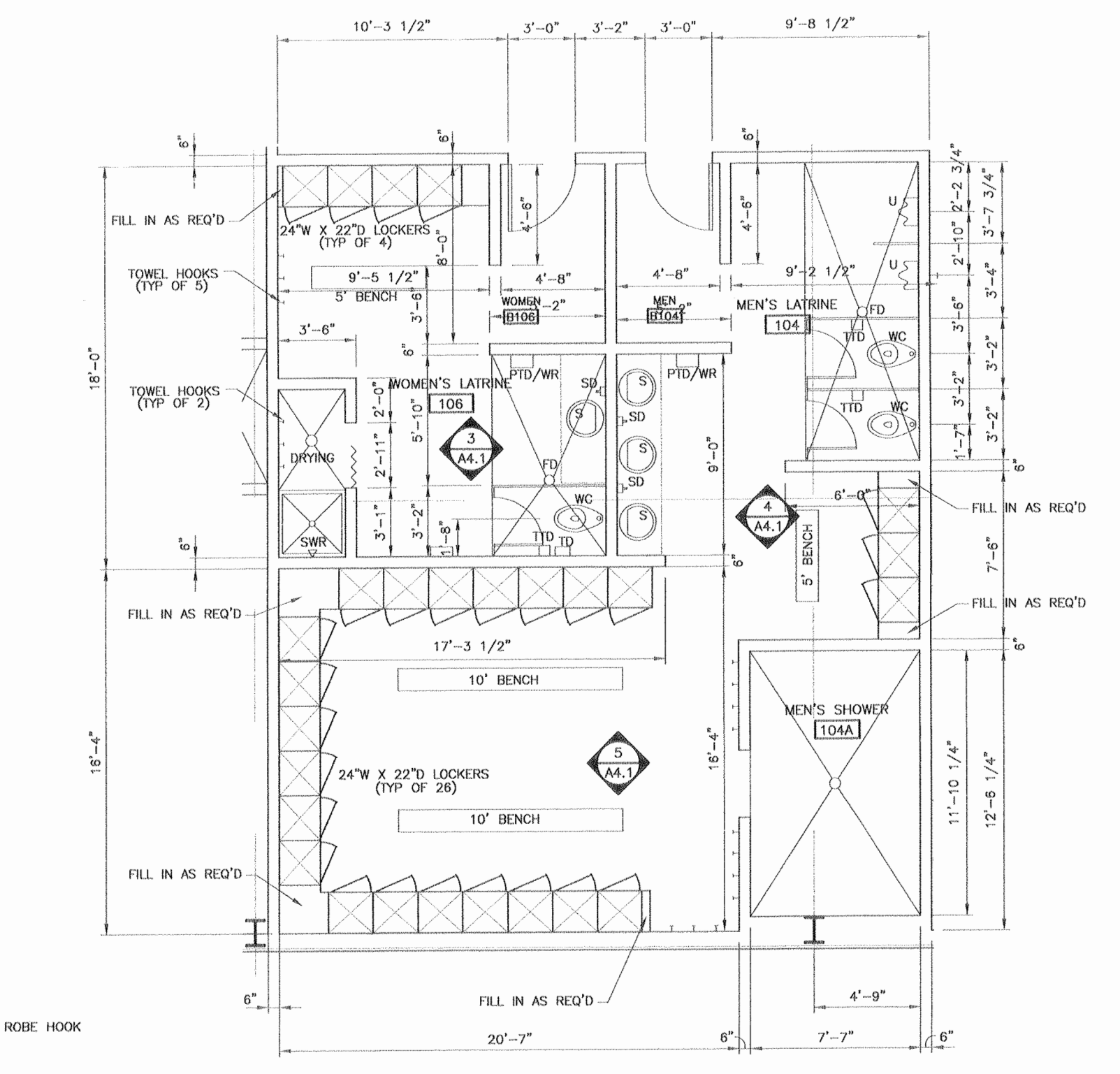
4 NEW WMD READY BUILDING -- MEN LATRINE ELEVATIONS
SCALE: 1/4" = 1'-0"



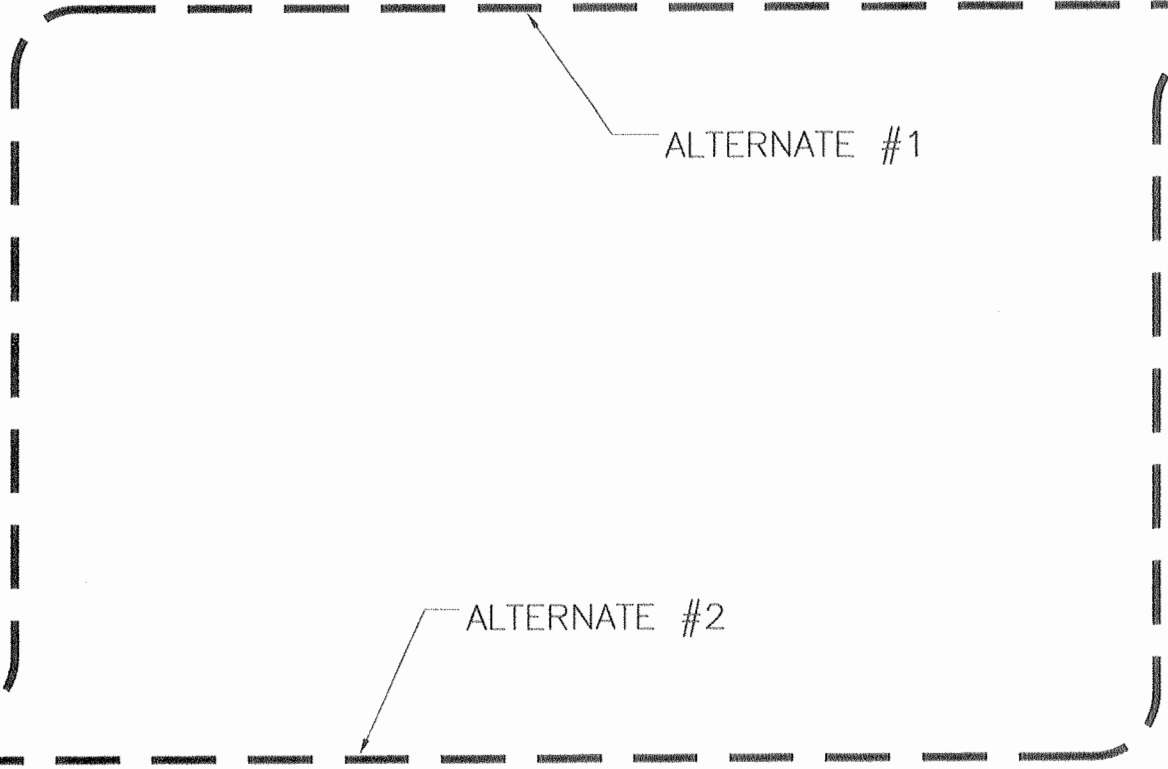
5 NEW WMD READY BUILDING -- MEN LOCKER ROOM ELEVATIONS
SCALE: 1/4" = 1'-0"



6 NEW WMD READY BUILDING -- BREAKROOM ELEVATIONS
SCALE: 1/4" = 1'-0"

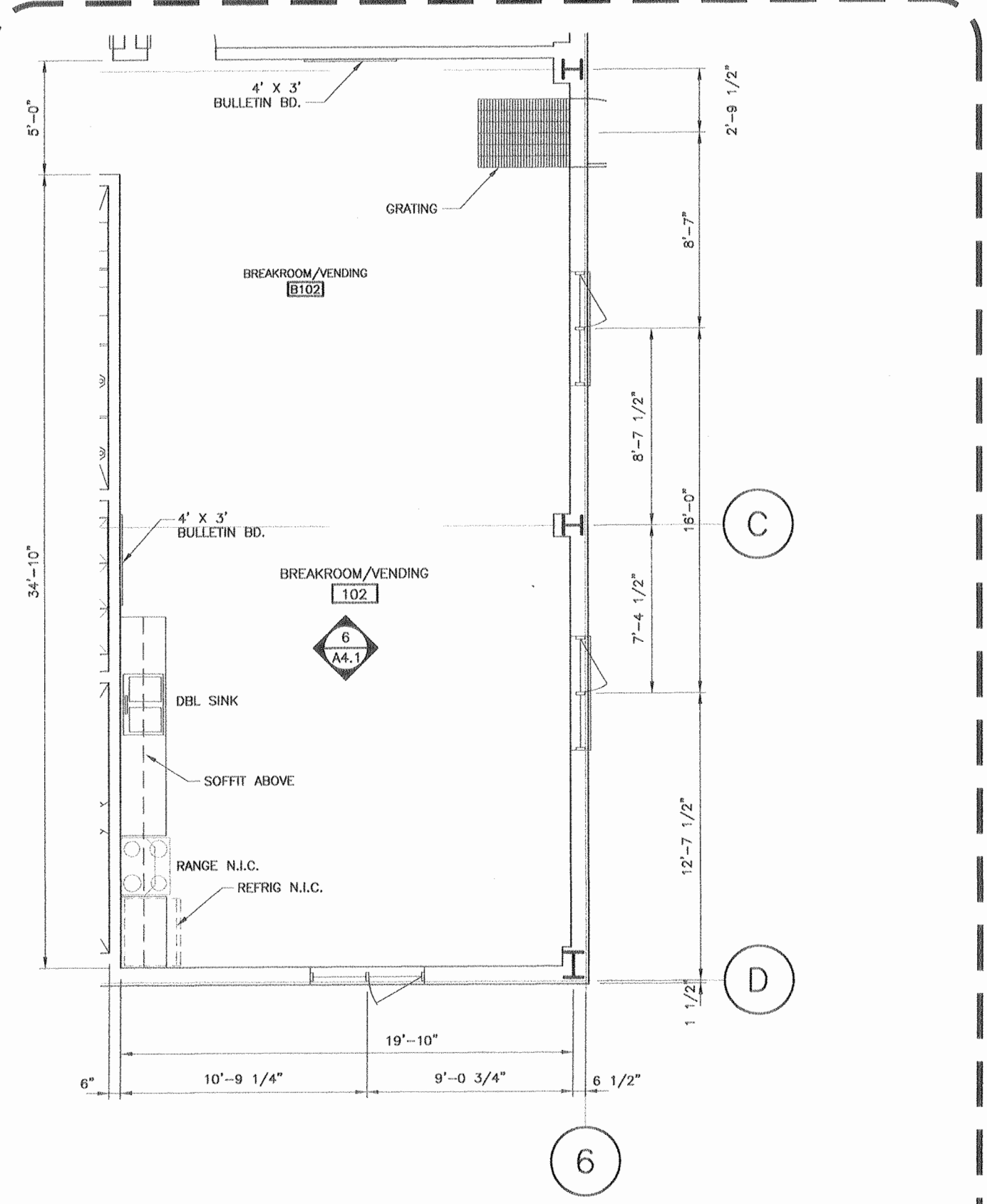


1 NEW WMD READY BUILDING -- ENLARGED LATRINES FLOOR PLAN
SCALE: 1/4" = 1'-0"



BASE BID AND ALTERNATES NOTE:
WORK ON THIS SHEET DESCRIBES ITEMS ASSOCIATED WITH ALTERNATES #1 & #2. REFER TO OTHER ARCHITECTURAL SHEETS FOR EXTENTS OF WORK.

2 NEW WMD READY BUILDING -- ENLARGED BREAKROOM FLOOR PLAN
SCALE: 1/4" = 1'-0"



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280 North Willow St., Wasilla, Alaska 99654 (907) 376-7815

Project:
**READY BUILDING
ADD/ALT (WMD)**
ALASKA ARMY NATIONAL GUARD
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

PROJ No. 020171A

Date	Revision	By

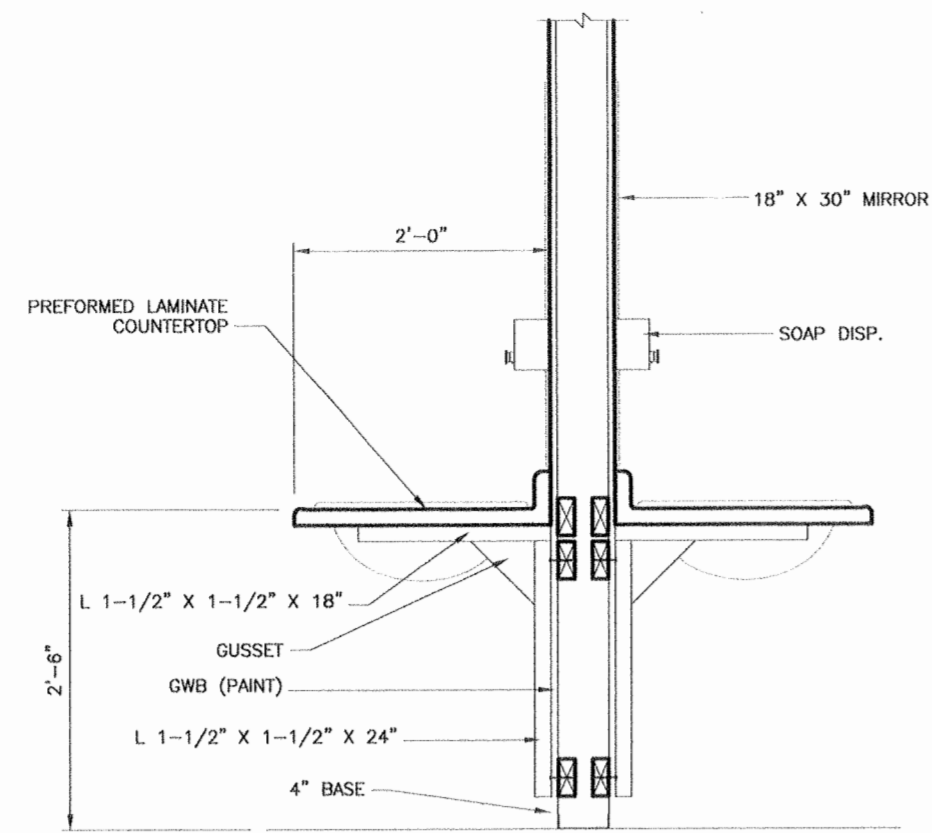
Sheet Contents
**ENLARGED
PARTIAL
FLOOR PLANS &
ELEVATIONS**

Project Mgr.	KDM	Sheet No.
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Drawn		
Checked	KDM	
Date	30 JAN 03	USKH W.O. 584209

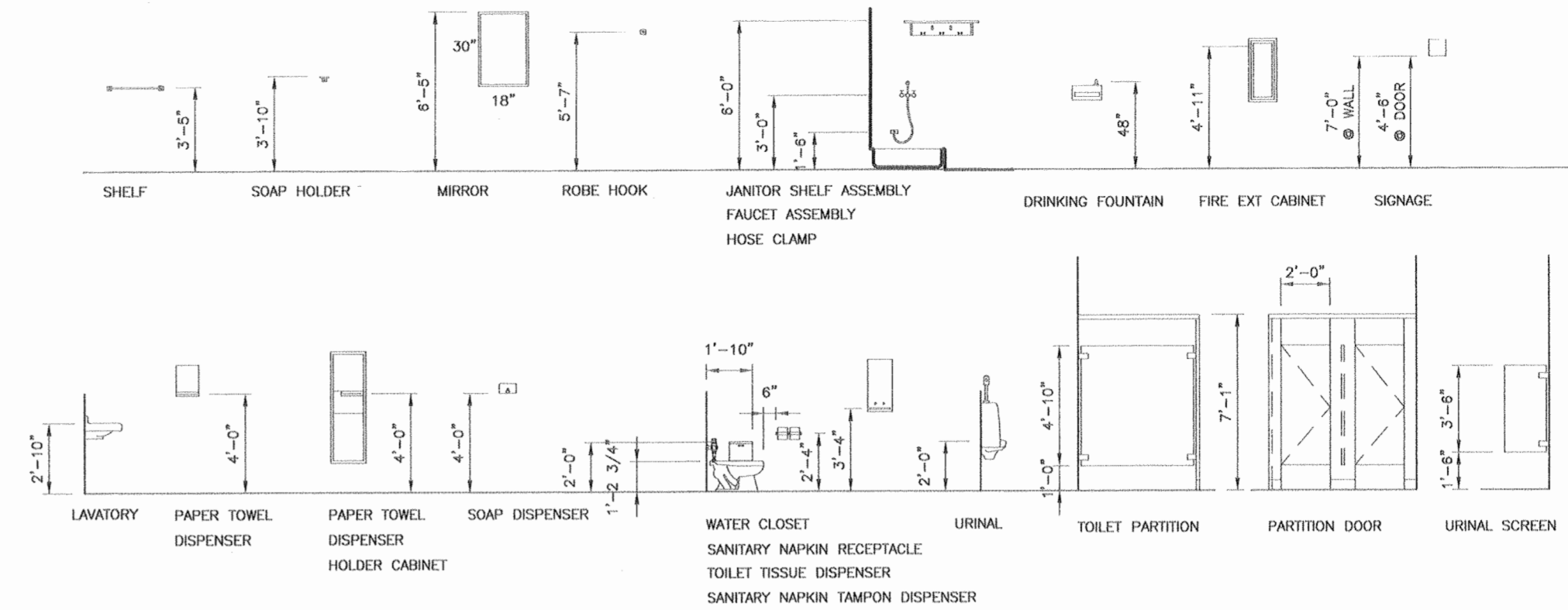
SCHEDULE B



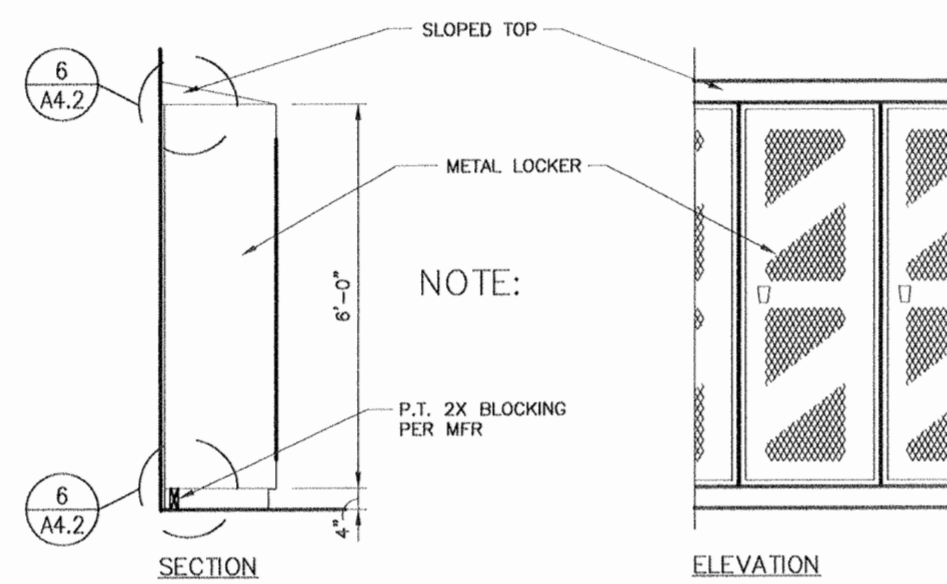
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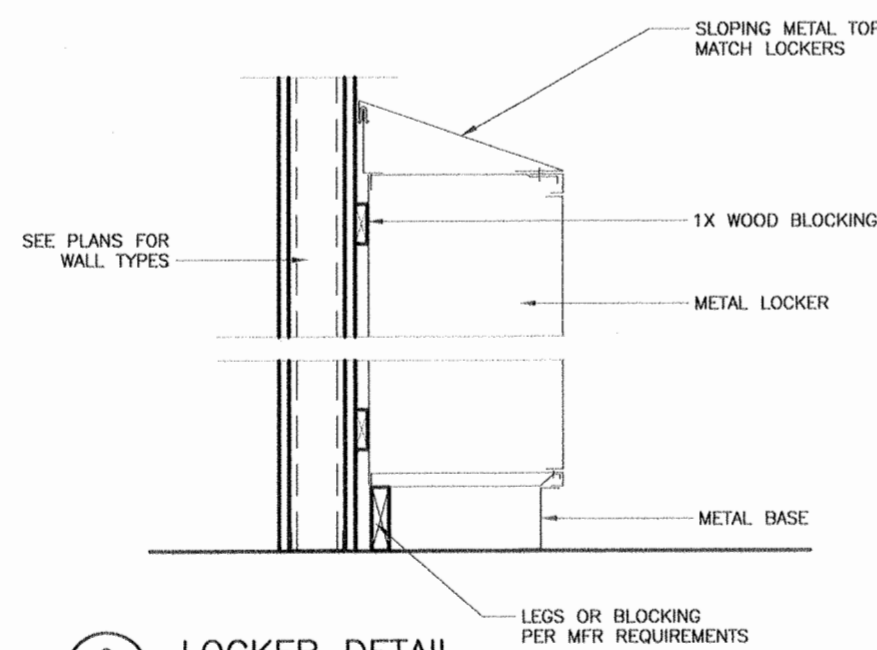
4 BATHROOM COUNTER DETAIL
SCALE: 1" = 1'-0"



1 TYPICAL ACCESSORIES MOUNTING HEIGHTS SCHEDULE
SCALE: 1/4" = 1'-0"

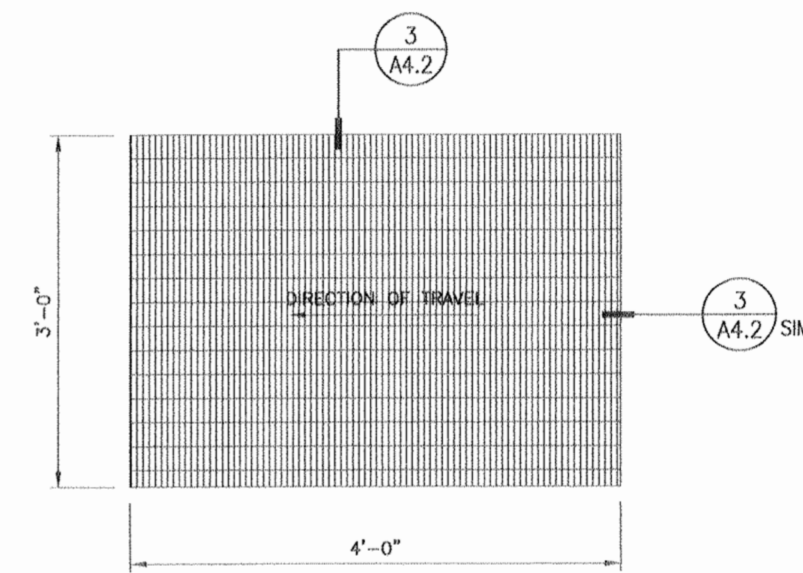


5 LOCKER DETAIL
SCALE: 1/2" = 1'-0"

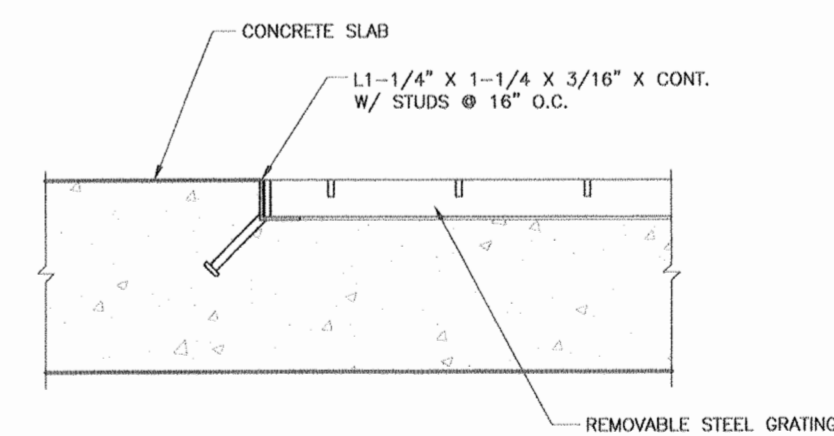


6 LOCKER DETAIL
SCALE: 3" = 1'-0"

ALTERNATE #1



2 ENTRY GRATE PLAN
SCALE: 3" = 1'-0"



2 ENTRY GRATE EDGE DETAIL
SCALE: 3" = 1'-0"

BASE BID

BASE BID AND ALTERNATES NOTE:
WORK ON THIS SHEET DESCRIBES BASE BID ITEMS AND ALTERNATE #1. REFER TO OTHER ARCHITECTURAL SHEETS FOR EXTENTS OF WORK.

SCHEDULE B

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280 North Willow St. Wasilla, Alaska 99654 (907) 376-7815

Project:
**READY BUILDING
ADD/ALT (WMD)**
ALASKA ARMY NATIONAL GUARD
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

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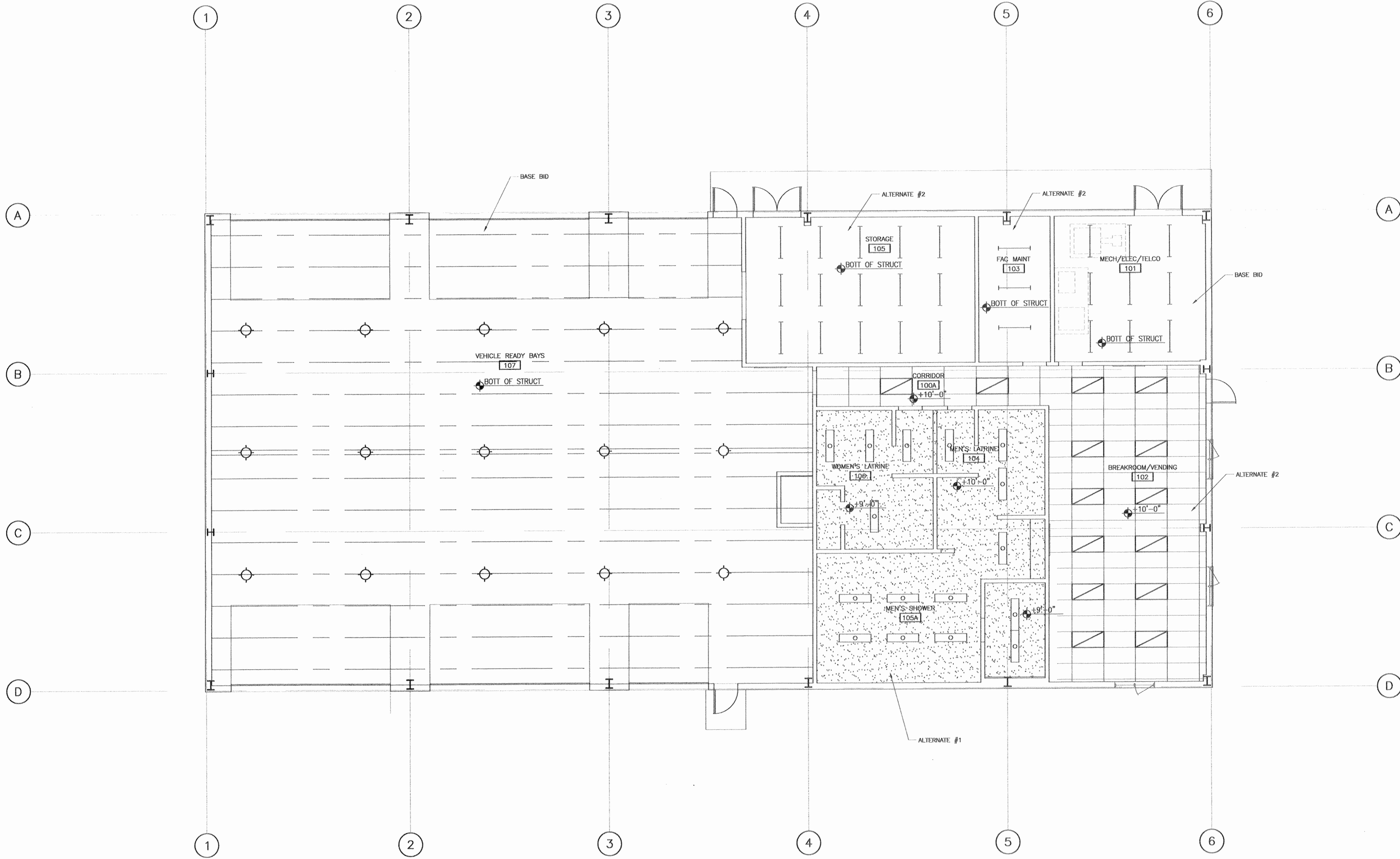
Date	Revision	By

Sheet Contents
DETAILS

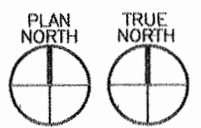
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Drawn		
Checked	KDM	
Date	30 JAN 03	USKH w.o. 584209



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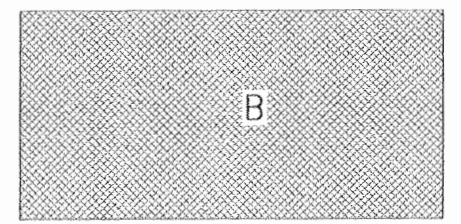


FACE OF EXIST BLDG



1 NEW WMD READY BUILDING - REFLECTED CEILING PLAN
 SCALE: 3/16" = 1'-0"

BASE BID AND ALTERNATES NOTE:
 WORK ON THIS SHEET DESCRIBES BASE BID ITEMS AND ALTERNATES #1 & #2. REFER TO OTHER ARCHITECTURAL SHEETS FOR EXTENTS OF WORK.



SCHEDULE B



2515 'A' Street Anchorage, Alaska 99503 (907) 276-4245
 544 Fourth Avenue Fairbanks, Alaska 99701 (907) 452-2128
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Sheet Contents
NEW WMD READY BUILDING REFLECTED CEILING

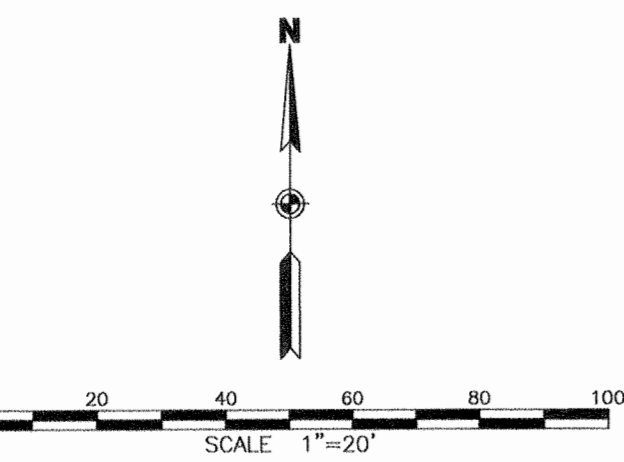
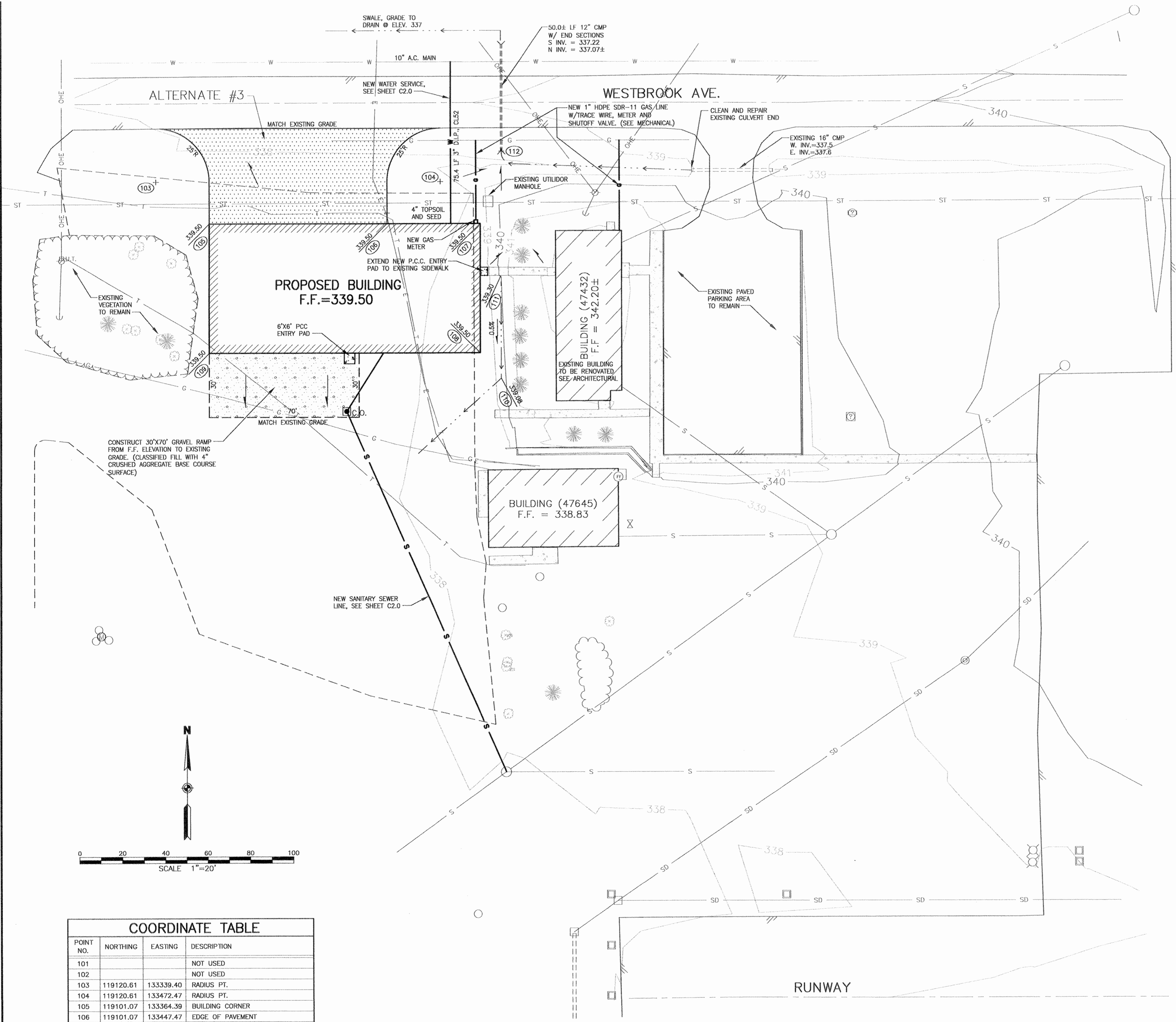
Project Mgr.	KDM	Sheet No.
Drawn	MAB	A6.1
Drawn		
Checked	KDM	
Date	30 JAN 03	USKH w.o. 584209



LEGEND

PROPOSED	EXISTING	
○	○	SANITARY SEWER MANHOLE
⊙	⊙	SANITARY SEWER CLEANOUT
⊕	⊕	STORM DRAIN MANHOLE
⊖	⊖	UTILITY MANHOLE
⊗	⊗	CATCH BASIN
⊘	⊘	MONITORING WELL
X	X	KEYBOX
◇	◇	GAS VALVE
⊙	⊙	JOINT USE POLE
⊙	⊙	GUY ANCHOR
⊙	⊙	TELEPHONE PEDESTAL
⊙	⊙	TAXIWAY LIGHT
⊙	⊙	TAXIWAY LIGHT SET IN 4' x 4' CONCRETE PAD
⊙	⊙	POST
⊙	⊙	MISC.
⊙	⊙	TREE
⊙	⊙	BUSH
⊙	⊙	FINISH FLOOR E.L.
⊙	⊙	VEGETATION LINE
⊙	⊙	CONTOUR
⊙	⊙	EDGE OF PAVEMENT
⊙	⊙	EDGE OF GRAVEL
⊙	⊙	CULVERT
⊙	⊙	SANITARY SEWER
⊙	⊙	STORM DRAIN
⊙	⊙	WATER LINE
⊙	⊙	UNDERGROUND STEAM PIPE
⊙	⊙	UNDERGROUND TELEPHONE
⊙	⊙	UNDERGROUND ELECTRIC
⊙	⊙	UNDERGROUND NATURAL GAS
⊙	⊙	OVERHEAD ELECTRIC LINES
⊙	⊙	CONCRETE
⊙	⊙	A.C. PAVEMENT

- NOTES:**
- 1) LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION / CONSTRUCTION AND SHALL CALL FOR UTILITY LOCATES A MINIMUM OF TWO BUSINESS DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.
 - 2) CONTRACTOR SHALL RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD ON THE CONTRACTOR'S ASBUILT PLANS. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS.
 - 3) CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND REPLACE ENTITIES ON-SITE THAT HAVE BEEN DISTURBED BY CONSTRUCTION.
 - 4) CONTRACTOR SHALL PROVIDE A MEANS OF EGRESS TO AND FROM THE EXISTING BUILDINGS TO MINIMIZE DISTURBANCE OF NORMAL OPERATIONS.
 - 5) CONTRACTOR SHALL GRADE THE PROJECT AREA TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE PROPOSED BUILDING AND THE ADJACENT EXISTING BUILDINGS.
 - 6) ELECTRICAL AND MECHANICAL DEMOLITION IS NOT SHOWN HERE. SEE ELECTRICAL AND MECHANICAL SHEETS FOR EXISTING ITEMS TO BE DEMOLISHED AND NEW CONSTRUCTION.



COORDINATE TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
101			NOT USED
102			NOT USED
103	119120.61	133339.40	RADIUS PT.
104	119120.61	133472.47	RADIUS PT.
105	119101.07	133364.39	BUILDING CORNER
106	119101.07	133447.47	EDGE OF PAVEMENT
107	119101.08	133491.06	BUILDING CORNER
108	119040.66	133491.06	BUILDING CORNER
109	119040.66	133364.39	BUILDING CORNER
110	119028.77	133500.89	DRAINAGE SWALE
111	119076.77	133500.89	DRAINAGE SWALE
112	119134.78	133501.06	CULVERT END

1 SITE PLAN
C1.0 SCALE: 1"=20'

BASE BID AND ALTERNATES NOTE:
ALL WORK ON THIS SHEET IS PART OF THE BASE BID AND SHALL INCLUDE ALL UNDERGROUND UTILITIES, GRADING, ASPHALT PATCHING AND GRAVEL PADS, DRAINAGE, AND OTHER ASSOCIATED WORK. THE METAL BUILDING AS SHOWN IN THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, SHALL BE CONSTRUCTED AS DESCRIBED ON THOSE SHEETS.

CALL BEFORE YOU DIG
The Contractor shall notify all area utility companies prior to commencement of excavation. The following is a partial list:
LOCATE CALL CENTER of ALASKA 278-3121
(includes ATU, AWW, CEA, ENG, Butler Aviation/Towers, Prime Cable, M.P., Traffic Signals, MCA Storm/Street)
STATE STORM/STREET LIGHTS 333-2411
MILITARY PETROLEUM LINES 552-3760
ALASKA RAILROAD 265-2527

Notes:

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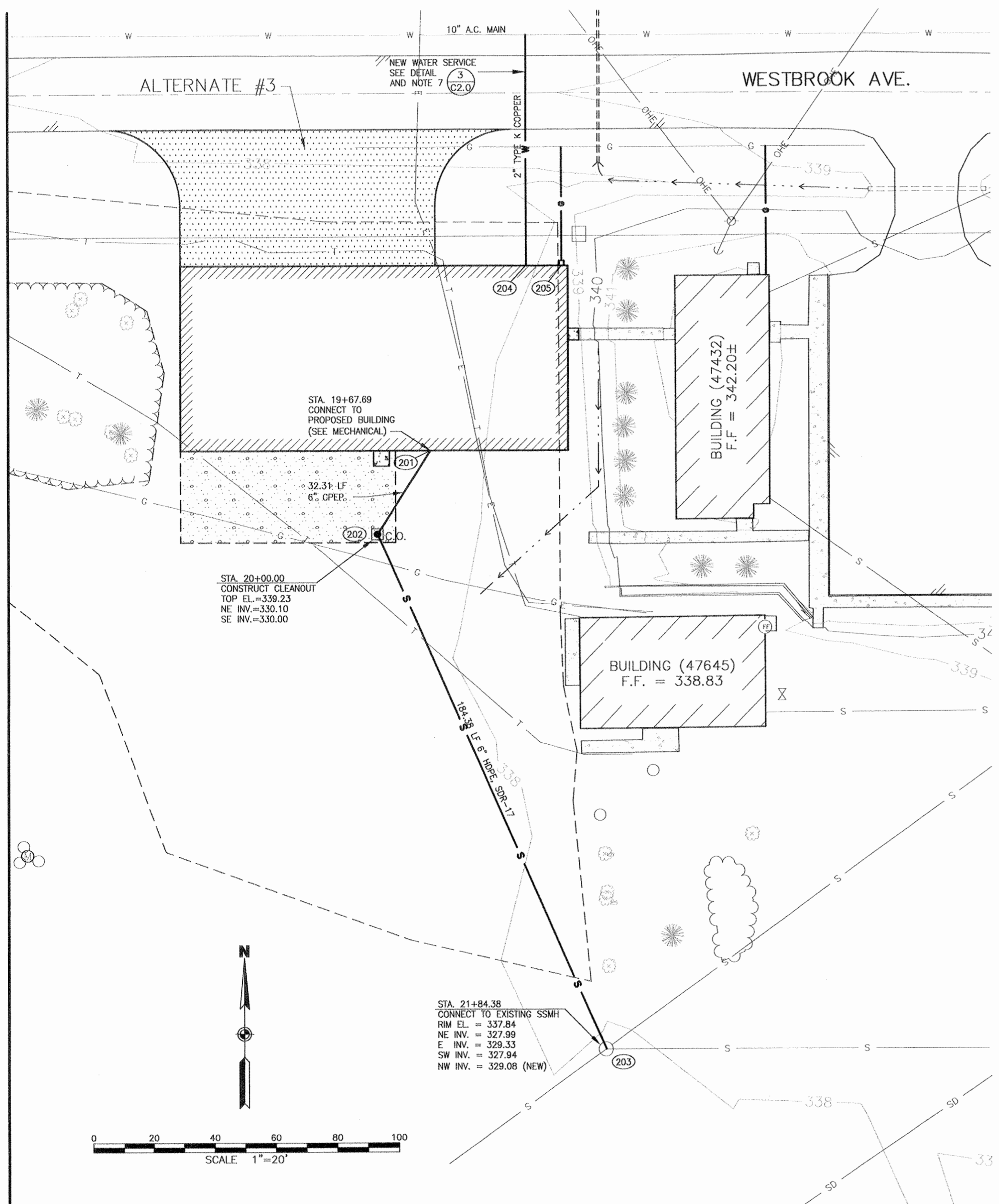
Sheet Contents

SITE PLAN

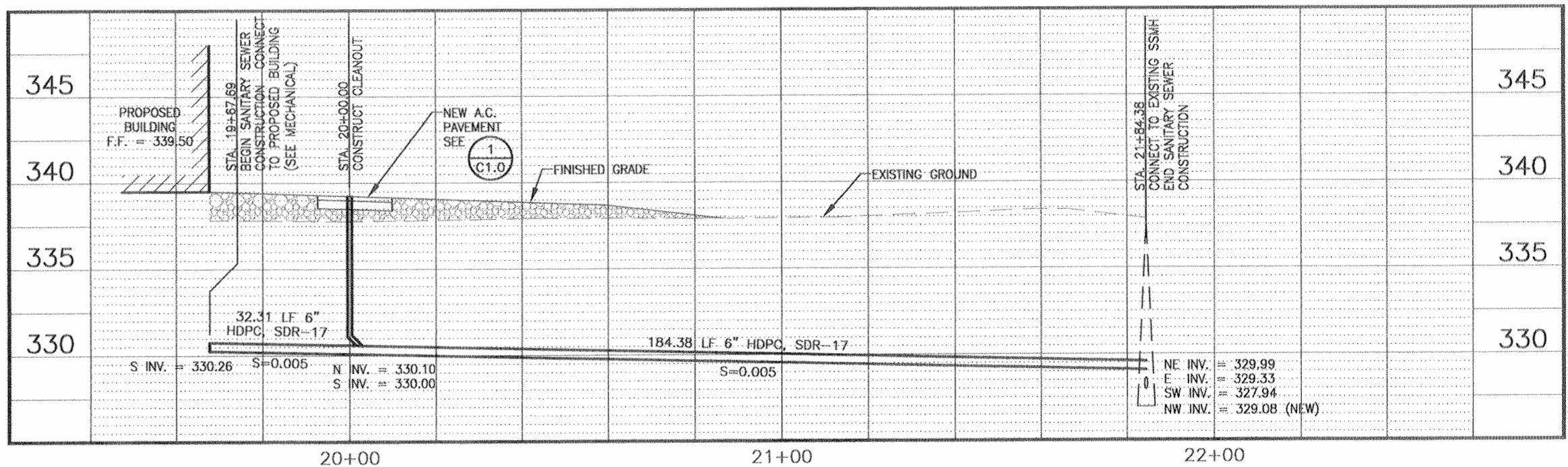
Project Mgr.	KDM	Sheet No.
Drawn	SMT	C1.0
Drawn		
Checked	JR ZWS	
Date	30 JAN 03	USKH w.o. 584209



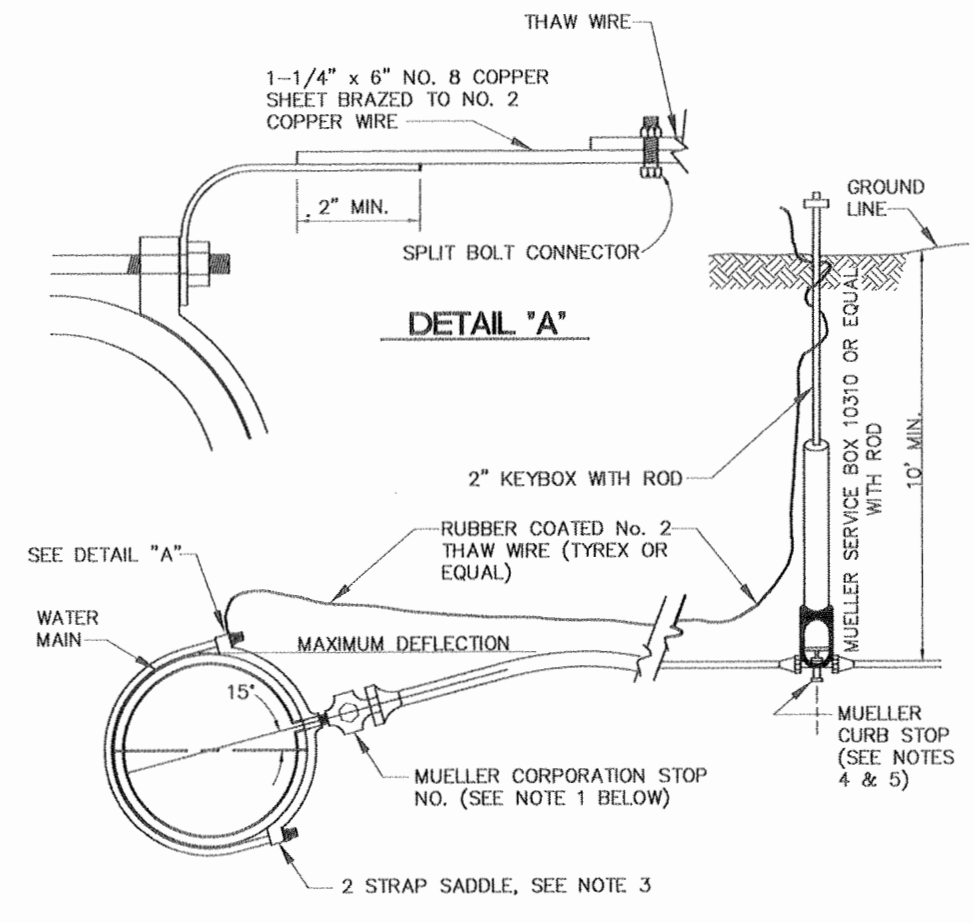
Notes:



1 UTILITY PLAN
SCALE: 1"=20'



2 SEWER LINE PROFILE
SCALE: 1"=20'



- NOTES
1. USE MUELLER CORPORATION STOP NO. 15025 OR EQUAL.
 2. USE MUELLER CURB STOP NO. H15184 ORISEAL OR EQUAL FOR COPPER TO IRON CONNECTIONS.
 3. MUELLER SERVICE CLAMP WITH (2) TWO STRAPS OR EQUAL SHALL BE USED ON ALL PIPE.
 4. ROD TO BE ATTACHED TO CURB STOP WITH NO. 6 GAUGE COPPER WIRE—NO SUBSTITUTIONS.
 5. USE MUELLER CURB STOP NO. H15214 ORISEAL OR EQUAL.

3 WATER SERVICE CONNECT DETAIL
SCALE: N.T.S.

UTILITY CONSTRUCTION NOTES

- CAUTION!!! THERE ARE UNDERGROUND UTILITIES THROUGHOUT THE PROJECT AREA.**
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION / CONSTRUCTION, AND SHALL CALL FOR UTILITY LOCATES A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.
 2. CONTRACTOR SHALL RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD ON THE CONTRACTOR'S AS-BUILT PLANS. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS.
 3. A MINIMUM VERTICAL SEPARATION OF (3) FEET SHALL BE MAINTAINED AT SEWER/STORM DRAIN CROSSINGS.
 4. PROVIDE 4" RIGID INSULATION BOARD, 4 FEET WIDE, WHERE WATER SERVICE HAS LESS THAN 10 FEET OF COVER.
 5. ALL DUCTILE IRON PIPE AND APPURTENANCES SHALL BE WRAPPED WITH A LAYER OF POLYETHYLENE ENCASUREMENT MATERIAL, 8-MIL THICK, AND CONFORMING TO ANSI/AWWA C105/A21.5. THE POLYETHYLENE ENCASUREMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE METHODS DESCRIBED IN THE CURRENT EDITIONS OF ANSI/AWWA AND THE DUCTILE IRON PIPE RESEARCH ASSOCIATION'S "A GUIDE TO THE INSTALLATION OF DUCTILE IRON PIPE".
 6. GROUND WATER MONITORING WELLS EXIST AT THE SITE. THE CONTRACTOR SHALL IDENTIFY, PROTECT AND PROVIDE CONTINUOUS ACCESS TO THE WELLS.
 7. INSTALL WATER SERVICE LINE BETWEEN EXISTING WATER MAIN (DEPTH OF BURY 10±) AND NEW FACILITY. PROVIDE 4 INCH THICK BY 4 FEET WIDE INSULATION BOARD 12" ABOVE AND CENTERED OVER THE ENTIRE LENGTH OF THE SERVICE LINE.

COORDINATE TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
201	119040.67	133445.80	SEWER/BUILDING CONNECTION
202	119013.35	133428.54	SEWER CLEANOUT
203	118844.78	133503.23	SEWER MANHOLE CONNECTION
204	119101.23	133477.31	WATER/BUILDING CONNECTION
205	119101.07	133188.93	GAS/BUILDING CONNECTION

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STATE STORM/STREET LIGHTS 333-2411
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Project: **READY BUILDING ADD/ALT (WMD)**

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BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

PROJ No. 020171A

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Sheet Contents

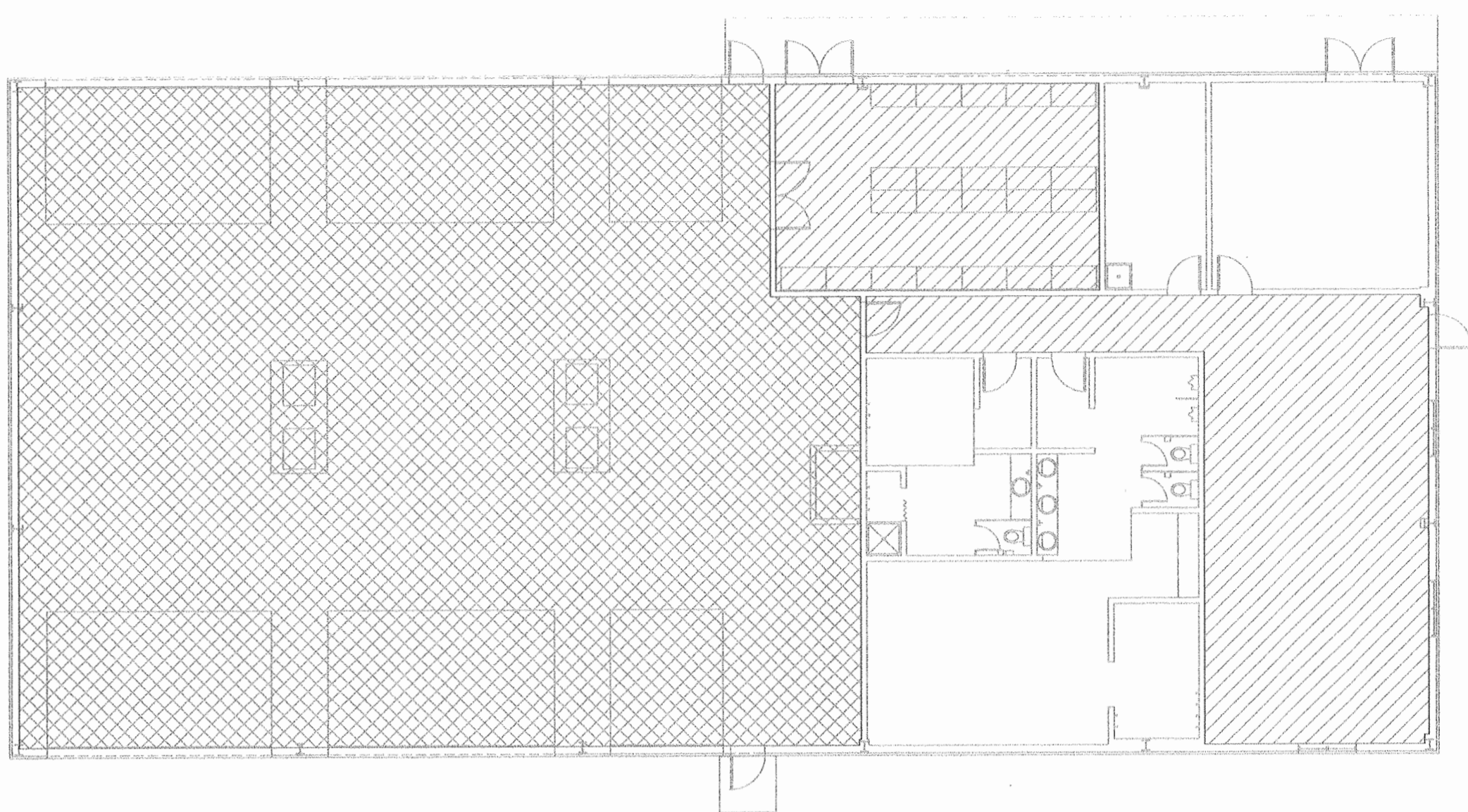
UTILITY PLAN AND PROFILES

Project Mgr.	KDM	Sheet No.
Drawn	SMT	C2.0
Drawn		
Checked	JR ZWS	
Date	30 JAN 03	USKH W.O. 584209



Notes:

ELECTRICAL SYMBOLS LEGEND			
	LIGHT FIXTURE - SURFACE WALL MOUNTED		PANEL
	LIGHT FIXTURE - SURFACE MOUNTED		DUPLEX RECEPTACLE
	LIGHT FIXTURE - RECESSED MOUNTED		GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
	FLUORESCENT FIXTURE - RECESS MOUNTED 2'x4'		QUADRUPLEX RECEPTACLE
	FLUORESCENT FIXTURE - SURFACE MOUNTED 1'x4'		SPECIAL PURPOSE RECEPTACLE
	FLUORESCENT FIXTURE - WALL MOUNTED		JUNCTION BOX
	FLUORESCENT STRIP FIXTURE - SURFACE MOUNTED		DISCONNECT SWITCH
	EXIT LIGHT - CEILING MOUNTED		COMBINATION MOTOR STARTER DISCONNECT
	EXIT LIGHT - WALL MOUNTED		FRACTIONAL HP MOTOR SWITCH
	SELF-CONTAINED EMERGENCY LIGHT		MOTOR
	FIXTURE IDENTIFICATION (LETTER INDICATES TYPE)		DATA (COMPUTER) OUTLET
	SINGLE POLE SWITCH		FA SMOKE DETECTOR
	THREE WAY SWITCH AND FOUR WAY SWITCH		FA HEAT DETECTOR (FIXED TEMP. NOTED)
	CONDUIT, CONCEALED		FA HORN STROBE
	NUMBER AND SIZE OF WIRES (NO SLASHES = 3#12)		FA MANUAL PULL STATION
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)		WEATHERPROOF
	INDICATES BEGINNING OF NEW CIRCUIT		GROUND FAULT CIRCUIT INTERRUPTER
	NOTE TAG (No. INDICATES NOTE)		CEILING MOUNTED DEVICE
	PHOTOCELL - 1800 VA MINIMUM		OVERHEAD DOOR - UP/DOWN/STOP
	KEYPAD		SPRINKLER SYSTEM TAMPER SWITCH
			SPRINKLER SYSTEM FLOW SWITCH



AREA CLASSIFICATION LEGEND

COMMERCIAL REPAIR GARAGE. ENTIRE AREA UP TO A LEVEL OF 18" ABOVE THE FLOOR SHALL BE CONSIDERED TO BE A CLASS 1, DIVISION 2 LOCATION PER NEC 511.3(B).

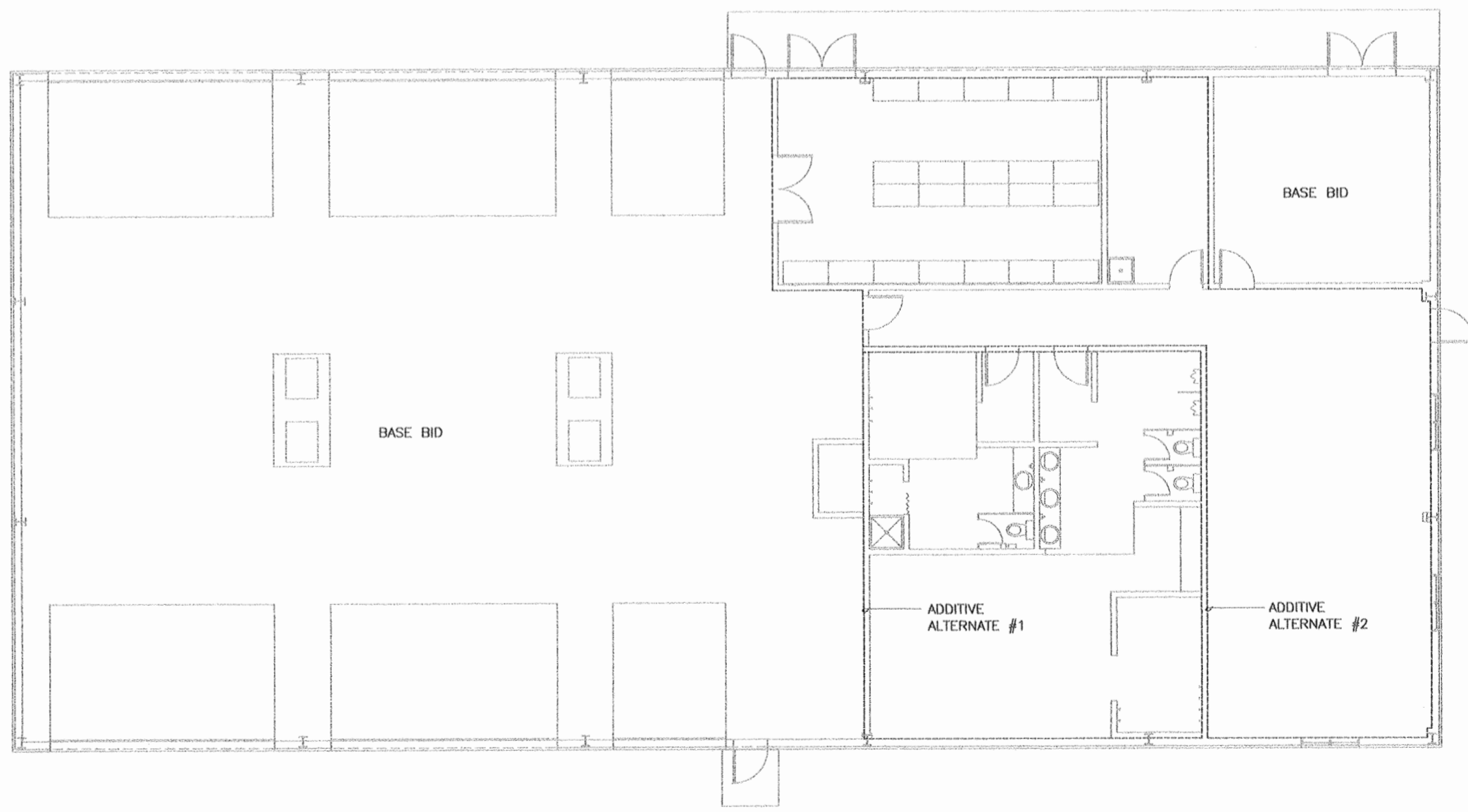
AREA ADJACENT TO CLASSIFIED LOCATION. THIS IS DEFINED AS CLASS 1 DIVISION 2 AREA PER NEC 511.3(B).

NON CLASSIFIED AREA.

NOTES:
 1) SYSTEMS AND DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH ALL REQUIREMENTS OUTLINED IN THE NATIONAL ELECTRICAL CODE, ARTICLES 500, 501 AND 511.
 2) PROVIDE GFCI PROTECTION FOR ALL 120 VOLT SHOP RECEPTACLES PER NEC 511.12.
 3) WIRING AND DEVICES ABOVE CLASSIFIED AREA'S SHALL CONFORM WITH NEC 511.7.

1 AREA CLASSIFICATION KEY PLAN (ASSUMING ADDITIVE ALTERNATES 1 & 2 ARE ACCEPTED)
 E0.1 SCALE: 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER AND MODEL NUMBER	DESCRIPTION	LAMP		MOUNTING	
			TYPE	QUANTITY	TYPE	HEIGHT
A	LITHONIA #2G18-432-120-GEB	2'x4' GRID TROFFER WITH ELECTRONIC BALLAST	F32/T-8	4	RECESSED	CEILING
D	LITHONIA #LB-232-120-GEB	15"x4' FLUORESCENT LOW PROFILE WRAP AROUND WITH ELECTRONIC BALLAST	F32/T-8	2	SURFACE	CEILING
F	LITHONIA #TXR-400M-PA22GLE-120	22" DIAMETER ENCLOSED ACRYLIC LOW BAY FIXTURE WITH GLASS LENS	400 MH	1	SURFACE	CEILING
FQ	LITHONIA #TXR-400M-PA22GLE-120-QRS	22" DIAMETER ENCLOSED ACRYLIC LOW BAY FIXTURE WITH GLASS LENS AND QUARTZ RESTRIKE	400 MH 250 QRTZ	1	SURFACE	CEILING
G	LITHONIA #VSL-232-120	1'x4' SURFACE ENCLOSED FLUORESCENT LISTED FOR WET LOCATION	F32/T-8	2	SURFACE	CEILING
H	LITHONIA #C-232-120-GEB-WG	1'x4' GENERAL PURPOSE CHANNEL WITH ELECTRONIC BALLAST AND WIRE GUARD	F32/T-8	2	SURFACE	CEILING
I	LITHONIA #TWH-250S-120	DIE CAST WALL PACK WITH GLASS REFRACTOR	250 HPS	1	WALL	14'
J	LITHONIA #WS-232-A12-120-GEB	STEEL WALL BRACKET WITH ELECTRONIC BALLAST	F32/T-8	2	SURFACE	ABOVE MIRROR
K	LITHONIA #TWH-250S-120-PE	DIE CAST WALL PACK WITH GLASS REFRACTOR AND PHOTOCELL	250 HPS	1	WALL	14'
L	LITHONIA #LF6 W/ F6LF2 LENSE	6" DOWNLIGHT WITH FLUSH PRISM POLYCARBONATE LENSE	26W DIT	2	RECESSED	CEILING
	LITHONIA #ELT125-H1812-TD	SELF CONTAINED EMERGENCY LIGHT WITH MAINTENANCE FREE LEAD CALCIUM BATTERY AND TIME DELAY	9W	2	SURFACE	12'
	LITHONIA #ELM4	SELF CONTAINED EMERGENCY LIGHT WITH MAINTENANCE FREE LEAD CALCIUM BATTERY	12W	2	SURFACE	80"
	LITHONIA #LESW1G-120-EL N	SELF CONTAINED EMERGENCY EXIT SIGN WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY	LED		WALL	80"



2 BASE BID / ADDITIVE ALTERNATE KEY PLAN
 E0.1 SCALE: 1/8" = 1'-0"

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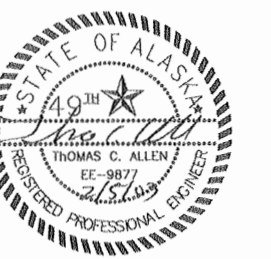
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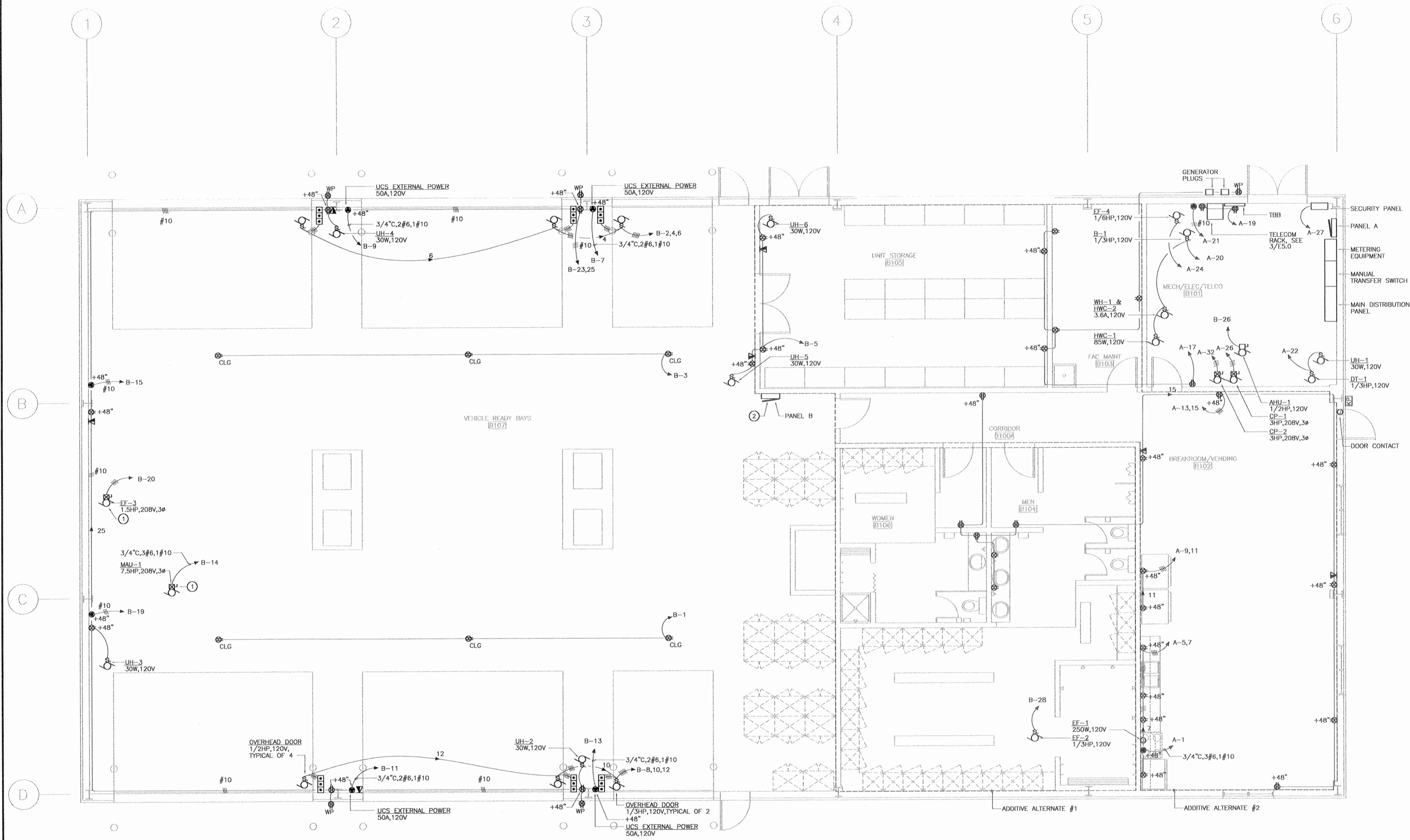
Sheet Contents
ELECTRICAL LEGEND, & FIXTURE SCHEDULE

Project Mgr.	KDM	Sheet No.
Drawn	BAB	E0.1
Drawn		
Checked	TCA	
Date	01-30-03 USKH w.o. 584209	

SCHEDULE B



Notes:



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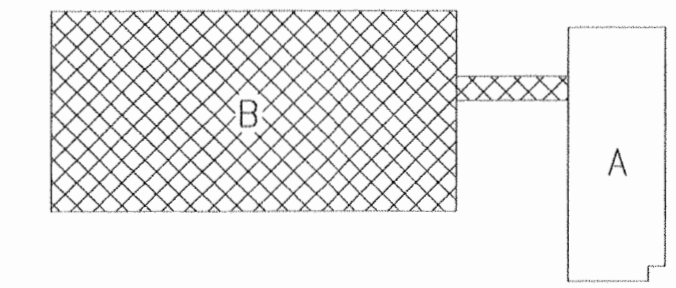
Sheet Contents
**NEW WMD BUILDING
 POWER & SIGNAL
 PLAN**

Project Mgr.	KDM	Sheet No.
Drawn	BAB	E3.1
Drawn		
Checked	TCA	
Date	01-30-03	USKH w.o. 584209

1 NEW WMD BUILDING POWER AND SIGNAL PLAN
 E3.1 SCALE: 1/4" = 1'-0"

SHEET NOTES:

- ① INTERLOCK STARTERS FOR EXHAUST FAN AND MAKE UP AIR UNIT IF NEEDED BY MECHANICAL REQUIREMENTS.
- ② IF ADDITIVE ALTERNATE #2 IS NOT ACCEPTED, MOVE PANEL B TO EXTERIOR WALL AT GRIDLINE 1 BETWEEN GRIDLINES A & B.

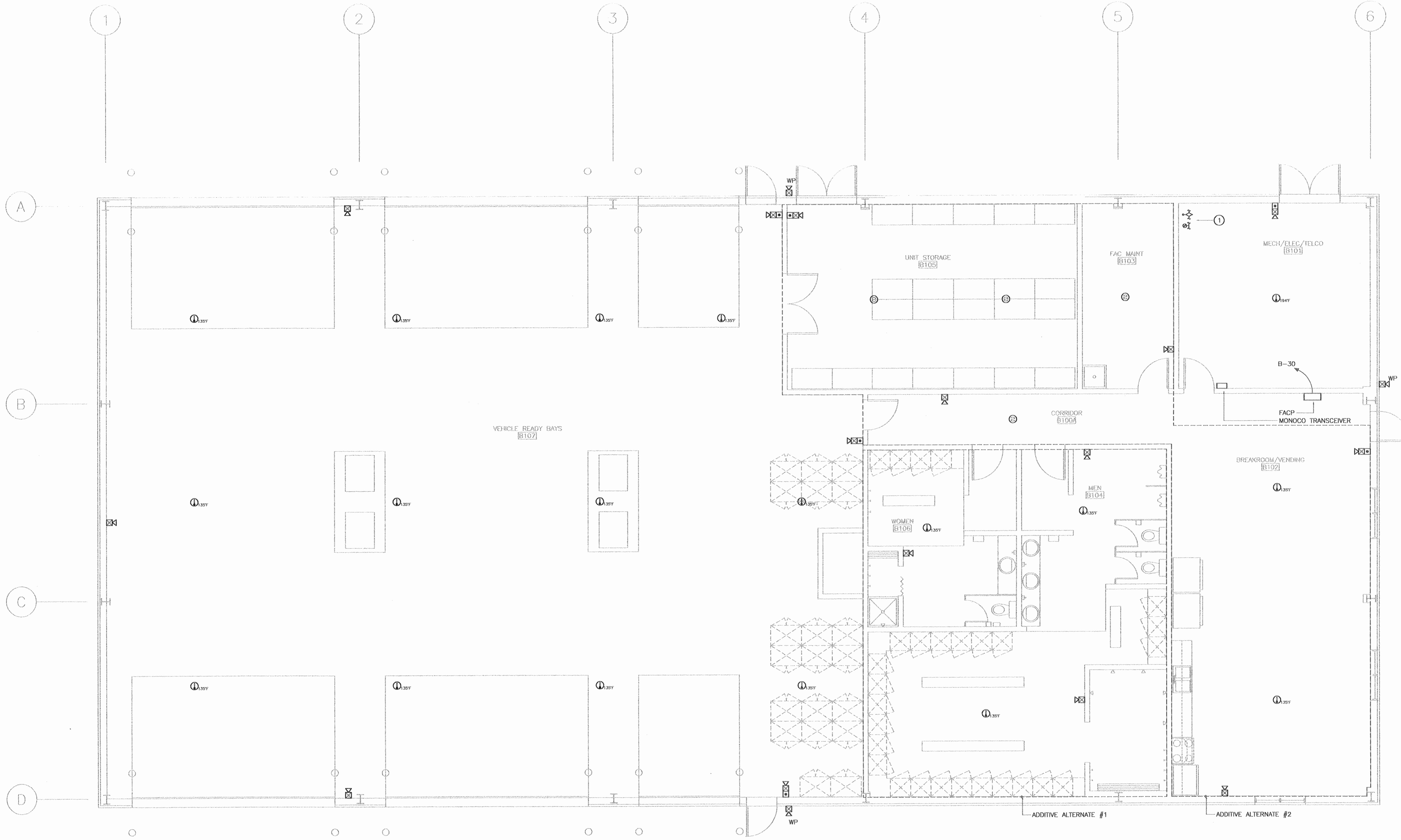


KEY PLAN

SCHEDULE B

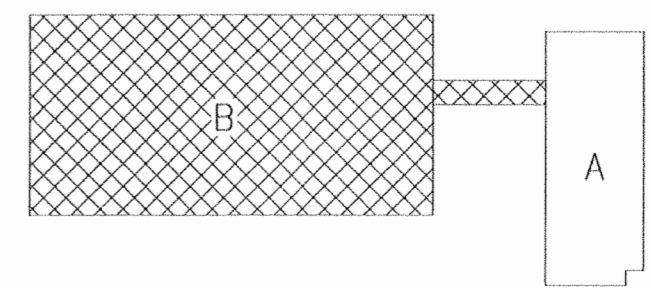


Notes:



1 NEW WMD BUILDING FIRE PROTECTION PLAN
E4.1 SCALE: 1/4" = 1'-0"

- SHEET NOTES:**
- ① COORDINATE FINAL LOCATION OF TAMPER AND FLOW SWITCHES.



SCHEDULE B B

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Project:
**READY BUILDING
ADD/ALT (WMD)**
ALASKA ARMY NATIONAL GUARD
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA
PROJ No. 020171A

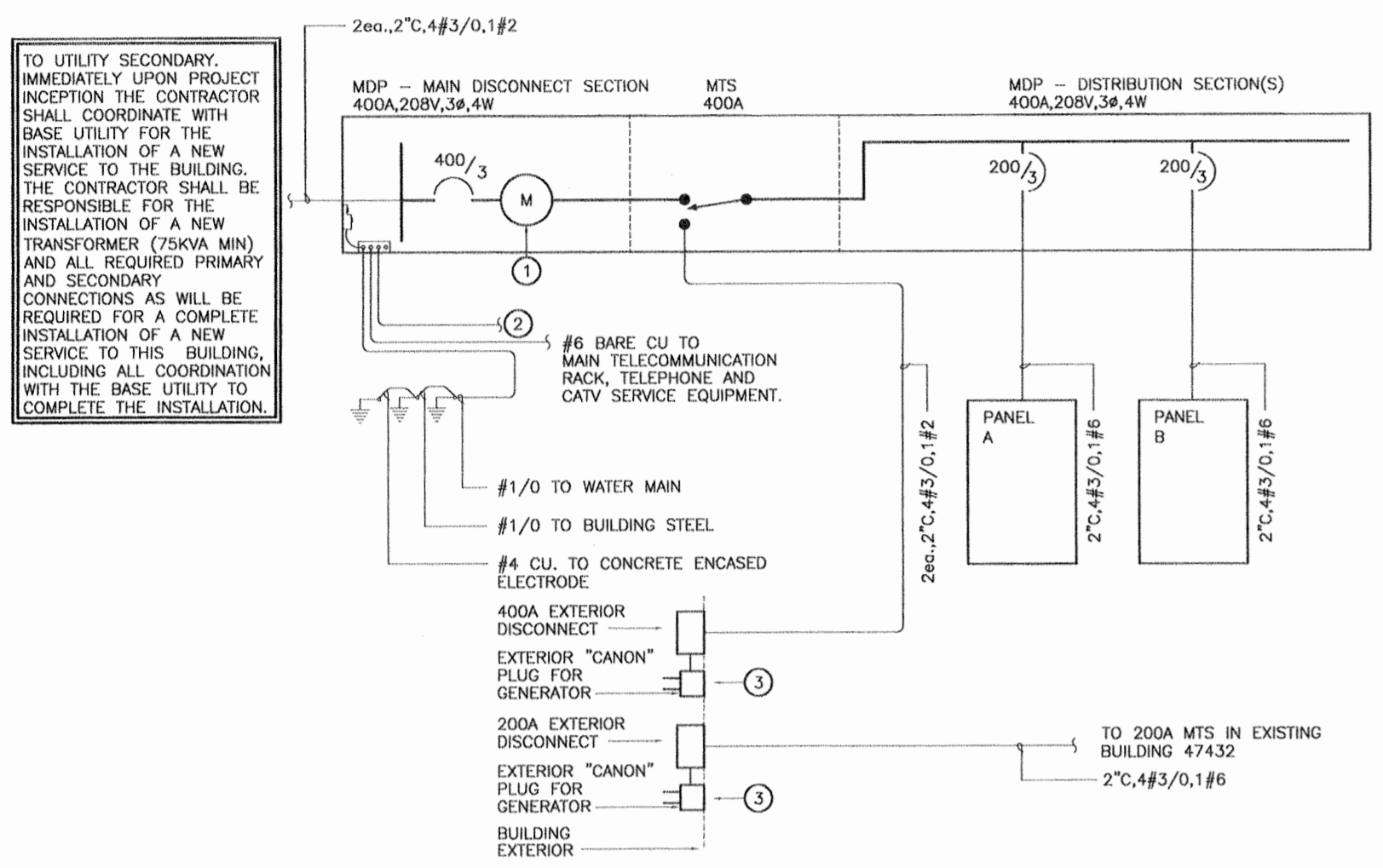
Date	Revision	By

Sheet Contents
**NEW WMD BUILDING
FIRE PROTECTION
PLAN**

Project Mgr.	KDM	Sheet No.
Drawn	BAB	E4.1
Checked	TCA	
Date	01-30-03	USKH W.O. 584209



Notes:



DETAIL NOTES

- 1 MDP SHALL HAVE ANALOG METER AND BE EQUIPPED WITH COMMUNICATION PORT FOR FUTURE REMOTE MONITORING.
- 2 PROVIDE #1/0 BONDING TO INTERIOR METAL WATER AND GAS PIPING IN ACCORDANCE WITH 250-104. PROVIDE BONDING JUMPERS ACROSS MAIN INCOMING FLANGED GASKET TO MAINTAIN ELECTRICAL CONTINUITY.
- 3 COORDINATE WITH BASE UTILITY FOR EXACT PLUG TYPE REQUIRED.

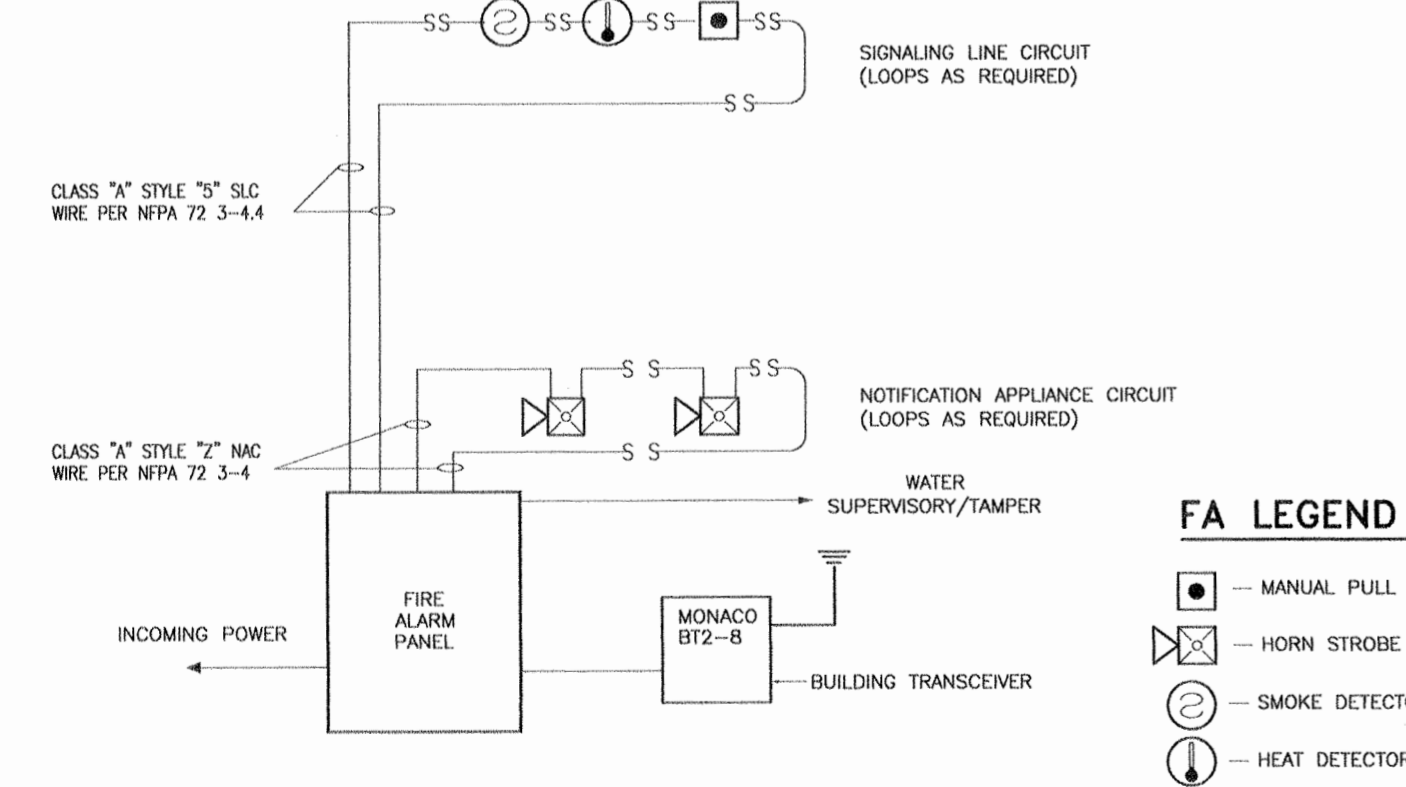
1 ELECTRICAL SINGLE LINE DIAGRAM

ES.0 SCALE: NTS

MDP		SCHEDULE				400A MCB	
Ckt. No.	Load Description	Phase A VA	Phase B VA	Phase C VA	Load Description	Wiring	Notes
1	PANEL A	15,194	20,015		PANEL B	200	2
3	SPACE		19,020	17,895	SPACE	1	6
6	SPACE			13,704	SPACE	1	8
7	SPACE				SPACE	1	10
11	SPACE				SPACE	1	12
13	SPACE				SPACE	1	14
15	SPACE				SPACE	1	16
17	SPACE				SPACE	1	18
19	SPACE				SPACE	1	20
21	SPACE				SPACE	1	22
23	SPACE				SPACE	1	24
25	SPACE				SPACE	1	26
27	SPACE				SPACE	1	28
29	SPACE				SPACE	1	30
31	SPACE				SPACE	1	32
33	SPACE				SPACE	1	34
35	SPACE				SPACE	1	36
37	SPACE				SPACE	1	38
39	SPACE				SPACE	1	40
41	SPACE				SPACE	1	42
CONNECTED LOAD (VA)		35,209	36,915	29,634	101,758 VA		
CONNECTED LOAD (AMPERES)		293	308	247	283 A		
DEMAND LOAD (VA)		35,209	36,915	29,634	101,758 VA		
DEMAND LOAD (AMPERES)		293	308	247	283 A		
AMPERE INTERRUPT RATING					AIC		

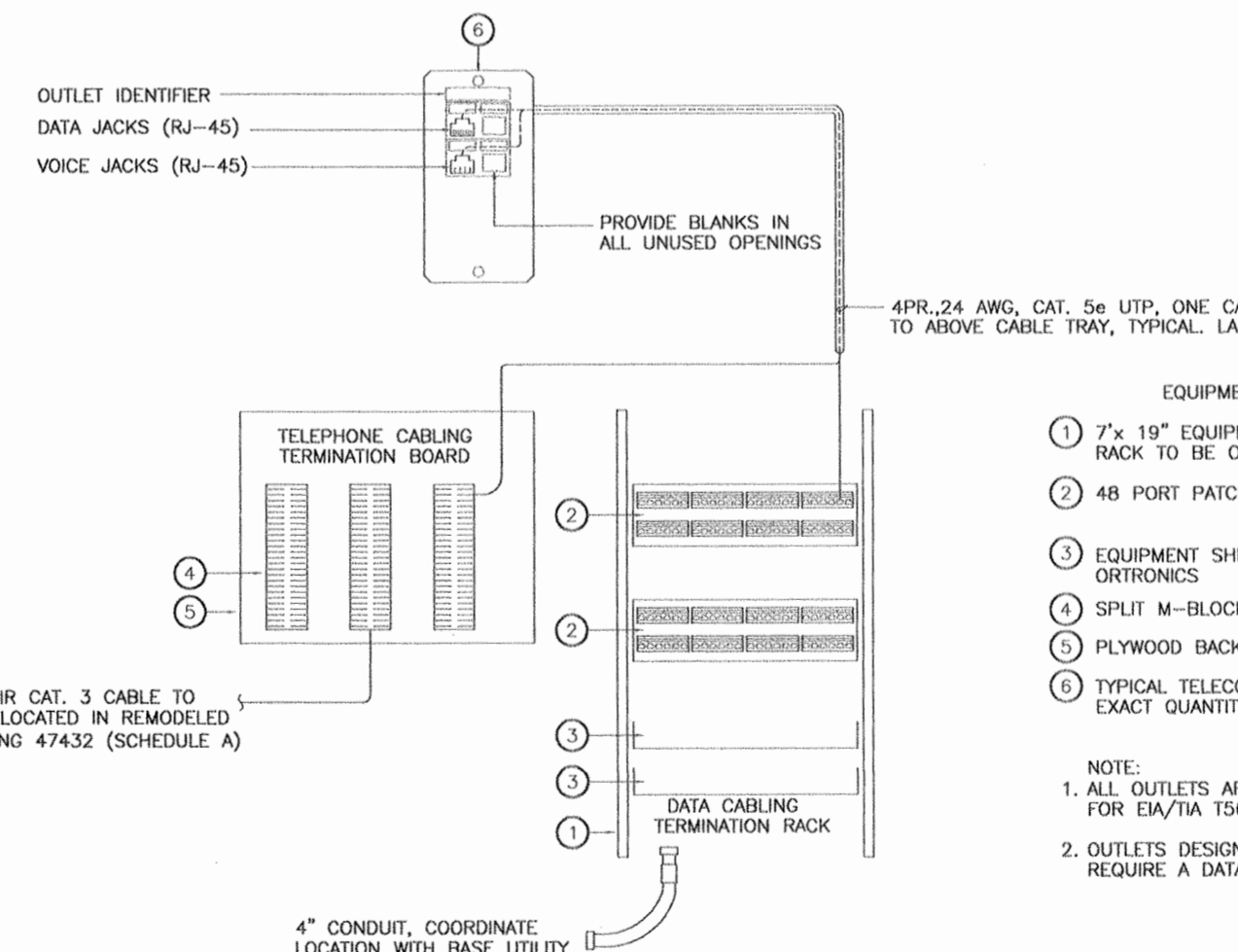
PANEL A		SCHEDULE				225A MLO	
Ckt. No.	Load Description	Phase A VA	Phase B VA	Phase C VA	Load Description	Wiring	Notes
1	RANGE	2,500	1,920		LTG-VEHICLE READY BAY	1	20
3	REC-BREAK		2,500	1,920	LTG-VEHICLE READY BAY	1	20
5	REC-BREAK	300	1,440		LTG-VEHICLE READY BAY	1	20
7	REC-BREAK		1,500	1,740	LTG-VEHICLE READY BAY	1	20
9	REC-VENDING			1,500	LTG-BREAK RM. VENDING	1	20
11	REC-VENDING			1,500	LTG-LOCKERS, HALL	1	20
13	REC-BREAK ROOM	900	1,535		LTG-MANT. MECH. STOR	1	20
15	REC-HALL LOCKERS		1,280	1,800	LTG-EXTERIOR BLDG	1	20
17	REC-MAINTENANCE STOR			900	EM LTG - READY BAYS	1	20
19	REC-TELECOM BOARD	720	1,385		B-1, WH-1, HW-C-2	1	20
21	REC-MECHANICAL ROOM		2,500	965	UH-1, DT-1	1	20
23	SPACE			2,500	625 EF-4	1	20
25	LTG-EAST MAN DOOR	300	1,320		CP-1	15	26
27	SECURITY PANEL		500	1,320		121 A	28
29	SPACE					3	30
31	SPACE		1,320		CP-2	15	32
33	SPACE			1,320		3	34
35	SPACE					3	36
37	SPACE					1	38
39	SPACE					1	40
41	SPACE					1	42
CONNECTED LOAD (VA)		13,040	17,325	12,420	43,385 VA		
CONNECTED LOAD (AMPERES)		114	144	104	121 A		
DEMAND LOAD (VA)		114	144	104	47,918 VA		
DEMAND LOAD (AMPERES)		127	159	114	133 A		
AMPERE INTERRUPT RATING					10,000 AIC		

PANEL B		SCHEDULE				225A MLO	
Ckt. No.	Load Description	Phase A VA	Phase B VA	Phase C VA	Load Description	Wiring	Notes
1	REC-READY BAY CEILING	540	865		OVERHEAD DOOR	1	20
3	REC-READY BAY CEILING		540	1,180	OVERHEAD DOOR	1	20
5	REC-STOR			540	OVERHEAD DOOR	1	20
7	REC-LCS EXT. POWER	4,500	865		OVERHEAD DOOR	1	20
9	REC-LCS EXT. POWER		4,500	1,180	OVERHEAD DOOR	1	20
11	REC-LCS EXT. POWER			4,500	OVERHEAD DOOR	1	20
13	REC-LCS EXT. POWER	4,500	3,040		IMAU-1	50	14
15	REC-READY BAY		2,500	3,040		3	16
17	REC-READY BAY	2,500	830		EF-3	15	20
19	REC-READY BAY		2,500	830		3	22
21	REC-READY BAY			900	830	3	24
23	REC-READY BAY	900	1,180		AHU-1	1	20
25	SPACE			865	EF-2	1	20
27	SPACE				500 FIRE ALARM CONTROL PNL	1	20
29	SPACE				SPARE	1	20
31	SPACE				SPARE	1	20
33	SPACE				SPARE	1	20
35	SPACE				SPARE	1	20
37	SPACE				SPARE	1	38
39	SPACE				SPARE	1	40
41	SPACE				SPARE	1	42
CONNECTED LOAD (VA)		19,720	17,135	15,170	52,025 VA		
CONNECTED LOAD (AMPERES)		164	143	126	145 A		
DEMAND LOAD (VA)		20,015	17,895	15,930	53,840 VA		
DEMAND LOAD (AMPERES)		167	149	133	150 A		
AMPERE INTERRUPT RATING					10,000 AIC		



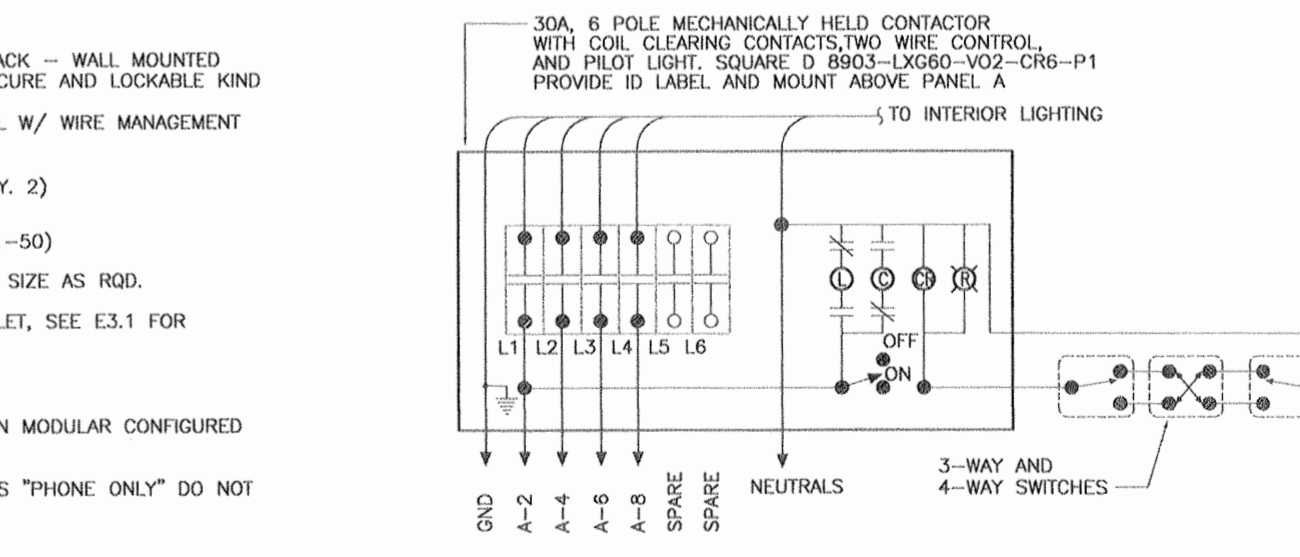
2 FIRE ALARM SCHEMATIC SINGLE LINE DIAGRAM

ES.0 SCALE: NTS



3 SCHEMATIC COMMUNICATION RISER DIAGRAM

ES.0 SCALE: NTS



4 LIGHTING CONTACTOR LC-1

ES.0 SCALE: NTS

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 BRYANT AIRFIELD
 FORT RICHARDSON, ALASKA

Project No. **020171A**

Date	Revision	By

Sheet Contents
DETAILS

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SCHEDULE B



AIR HANDLING UNIT SCHEDULE																						
DESIGNATION	MAX CFM	MIN CFM	O/A CFM	O/A (%)	ESP (in of H2O)	RPM	PRE-HEATING COIL								FILTER	ELECTRICAL			BASIS OF DESIGN		NOTES	
							MBH	EAT (°F)	LAT (°F)	APD (in of H2O)	GPM	EWI (°F)	LWT (°F)	WPD (ft. of H2O)		ROWS	HP	VOLTS	PHASE	MANUFACTURER		MODEL
AHU-1	745	745	745	100	0.5	855	44.43	-20	30	0.08	2.1	180	135	4.1	1	PLEATED	1/2	120	1	TRANE	BCH8024GA1	1
							HEATING COIL															
							MBH	EAT (°F)	LAT (°F)	APD (in of H2O)	GPM	EWI (°F)	LWT (°F)	WPD (ft. of H2O)	ROWS							
							32.31	25	65	0.15	1.5	180	135	0.67	2							
							PRE-HEATING COIL															
MAU-1	6500	6500	6500	100	0.7	1061	MBH	EAT (°F)	LAT (°F)	APD (in of H2O)	GPM	EWI (°F)	LWT (°F)	WPD (ft. of H2O)	ROWS							
							354	-20	30	0.13	26.3	180	150	0.43	2	PLEATED	7.5	208	3	TRANE	MCCB12	1
							HEATING COIL															
							MBH	EAT (°F)	LAT (°F)	APD (in of H2O)	GPM	EWI (°F)	LWT (°F)	WPD (ft. of H2O)	ROWS							
							256	25	65	0.18	19.1	180	150	0.24	2							

NOTES:
1. PROVIDE AIR HANDLING UNIT WITH THE FOLLOWING: PRE-FILTER, 50% PG PRE-HEATING COIL, PLEATED FILTERS, 50% PG HEATING COIL, FORWARD CURVED FAN, DRIP PAN, LEFT HAND ACCESS DOORS AND HANGING VIBRATION ISOLATORS. COORDINATE HANGING OF UNIT WITH STRUCTURAL.

EXPANSION TANK SCHEDULE									
DESIGNATION	SERVICE	FLUID	SYSTEM VOLUME (gallons)	TANK VOLUME (gallons)	ACCEPTANCE VOLUME (gallons)	WORKING PRESSURE (psi)	BASIS OF DESIGN		NOTES
							MANUFACTURER	MODEL	
ET-1	HEATING SYSTEM	PROPYLENE GLYCOL	302	44.4	22.2	125	ARMSTRONG	AX-80	
ET-2	HOT-WATER HEATING	WATER	400	17.5	11.4	125	ARMSTRONG	AST-42	

WATER HEATER SCHEDULE											
DESIGNATION	LOCATION	GROSS INPUT MBH	RECOVERY GPH (90°F RISE)	STORAGE GALLONS	ELECTRICAL			BASIS OF DESIGN		NOTES	
					AMPS	VOLTS	PHASE	MANUFACTURER	MODEL		
WH-1	B101	500	497	318	3.6	120	1	LOCHINVAR	RWN500PM-F9 / RGA318	1	

NOTES:
1. PACKAGED GAS FIRED WATER HEATER WITH 318 GALLON INSULATED STORAGE TANK. MANUFACTURER IS TO PROVIDE PUMP, THERMOSTATS, HIGH LIMIT CONTROL, PRESSURE RELIEF VALVE, FLOW SWITCH, MANUAL RESET HIGH LIMIT AND PUMP DELAY. SEE DETAIL 1/M6.1 FOR PIPING SCHEMATIC.

MISCELLANEOUS EQUIPMENT SCHEDULE									
DESIGNATION	EQUIPMENT	LOCATION	CAPACITY	ELECTRICAL KW, VOLTS, PH	BASIS OF DESIGN		REMARKS		
					MFR.	MODEL			
AS-1	AIR SEPARATOR	B101	70 GPM	--	AMTROL	AS-3	--		
GT-1	GLYCOL MAKE-UP TANK	B101	30 GAL.	--	ANCHORAGE TANK	--	1		

NOTES:
1. 30 GALLON METAL TANK WITH BUILT-IN FUNNEL, SPUT COVER AND HAND PUMP.

UNIT HEATER SCHEDULE													
DESIGNATION	LOCATION	MBH	CFM	GPM	EWT (°F)	LWT (°F)	WPD (FT)	ELECTRICAL			BASIS OF DESIGN		NOTES
								P	VOLTS	PHASE	MFR.	MODEL	
UH-1	B101 MECH/ELEC	22.1	630	2.5	180	160	0.2	30W	120	1	MODINE	HS-33	1
UH-2	B107	22.1	630	2.5	180	160	0.2	30W	120	1	MODINE	HS-33	1
UH-3	B107	22.1	630	2.5	180	160	0.2	30W	120	1	MODINE	HS-33	1
UH-4	B107	22.1	630	2.5	180	160	0.2	30W	120	1	MODINE	HS-33	1
UH-5	B107	22.1	630	2.5	180	160	0.2	30W	120	1	MODINE	HS-33	1
UH-6	B105	14.1	370	1.6	180	160	0.8	30W	120	1	MODINE	HS-24	1

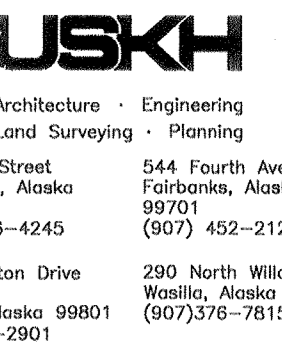
NOTES:
1. PROVIDE WITH HANGING VIBRATION ISOLATORS. THERMOSTAT BY CONTROLS CONTRACTOR. UNITS HAVE BEEN SIZED FOR A 50% PROPYLENE GLYCOL SOLUTION.

LOUVER SCHEDULE											
DESIGNATION	SERVICE	TYPE	SIZE (IN)	FLOW (CFM)	FREE AREA (SQ FT)	FACE VEL. (FPM)	SP (IN. W.G.)	DEPTH (IN)	BASIS OF DESIGN		NOTES
									MFR.	MODEL	
LV-1	RANGE HOOD EXHAUST	DRAINABLE BLADE	12x12	200	0.30	666	0.06	4"	GREENHECK	ESD-403	
LV-2	EXHAUST	DRAINABLE BLADE	24x18	1005	1.15	873	0.10	4"	GREENHECK	ESD-403	
LV-3	EXHAUST	DRAINABLE BLADE	42x42	6500	6.09	1067	0.14	4"	GREENHECK	ESD-403	
LV-4	MAU-1 INTAKE	DRAINABLE BLADE	54x54	6400	10.26	623	0.07	4"	GREENHECK	ESD-403	
LV-5	AHU-1 INTAKE	DRAINABLE BLADE	24x18	745	1.15	647	0.06	4"	GREENHECK	ESD-403	
LV-6	SF-1 INTAKE	DRAINABLE BLADE	30x30	2000	2.85	701	0.09	4"	GREENHECK	ESD-403	
LV-7	GENERATOR INTAKE	DRAINABLE BLADE	48x48	5600	8.00	700	0.09	4"	GREENHECK	ESD-403	

RADIANT PANEL SCHEDULE										
DESIGNATION	WATER BTUH/PANEL	GPM	EWT (°F)	LWT (°F)	EAT (°F)	LIQ VEL. (FT/S)	BASIS OF DESIGN		NOTES	
							MFR.	MODEL		
RP-1	1140	.2/PANEL	180	160	65	VARIES	AIRTEX	2'x4' MODULAR	1	

NOTES:
1. 2'x4' RADIANT PANEL. PROVIDE ALUMINUM FRAME FOR RECESSED MOUNTING IN GWB CEILING. LOCATE CONTROL VALVES ABOVE CEILING. SEE DETAILS 3/M6.1 & 8/M6.1.

Notes:



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FORT RICHARDSON, ALASKA
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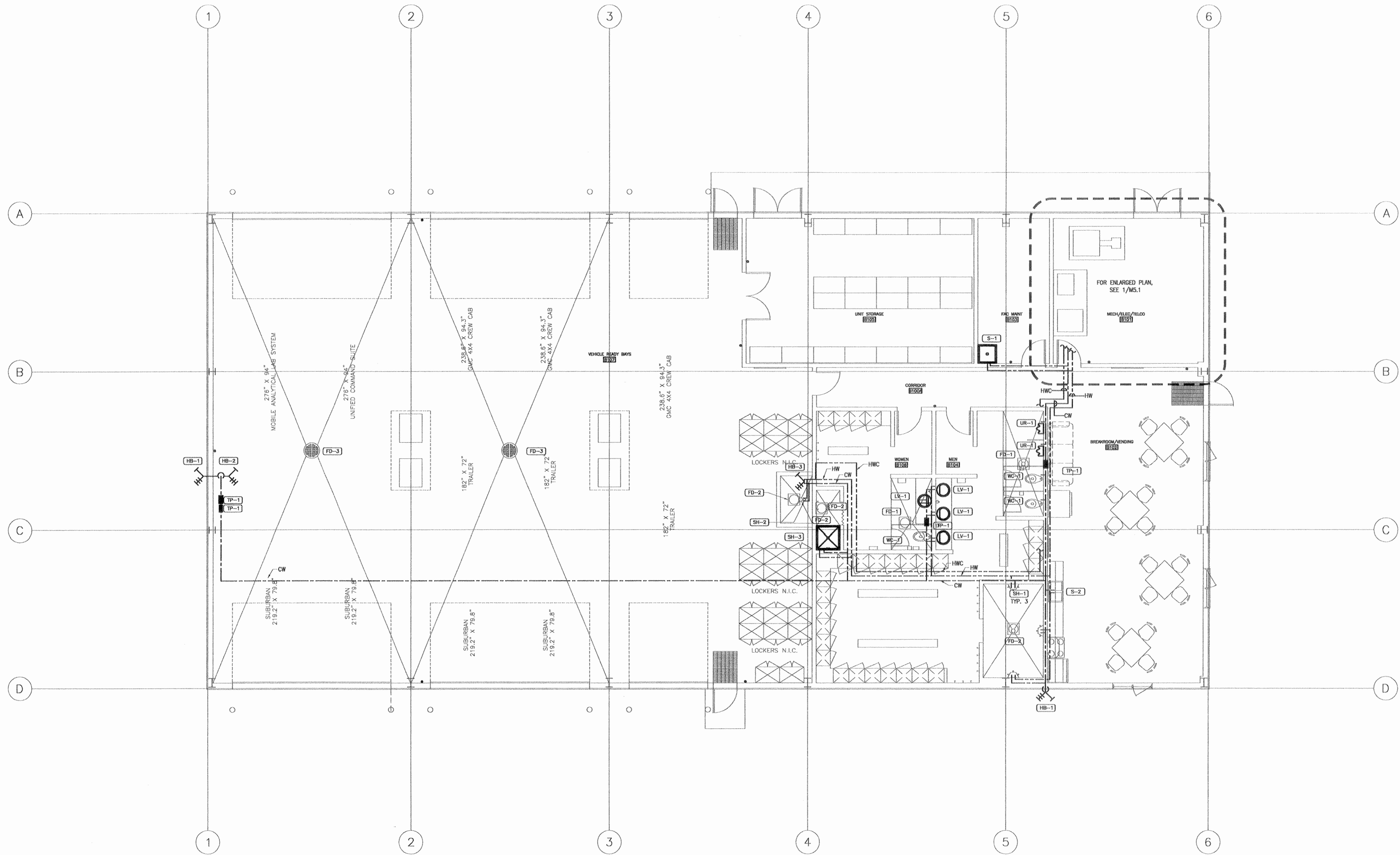
Sheet Contents
NEW WMD READY BUILDING SCHEDULES

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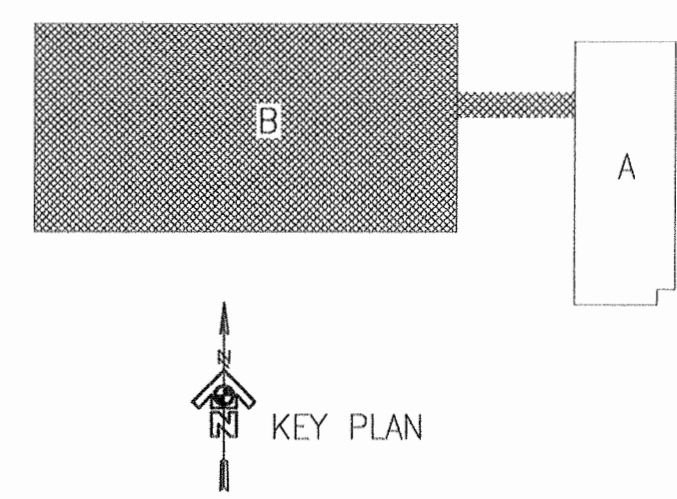
SCHEDULE B



Notes:



PLAN NORTH TRUE NORTH
 1 NEW WMD READY BUILDING -- PLUMBING PLAN
 M2.1 SCALE: 3/16" = 1'-0"



SCHEDULE B

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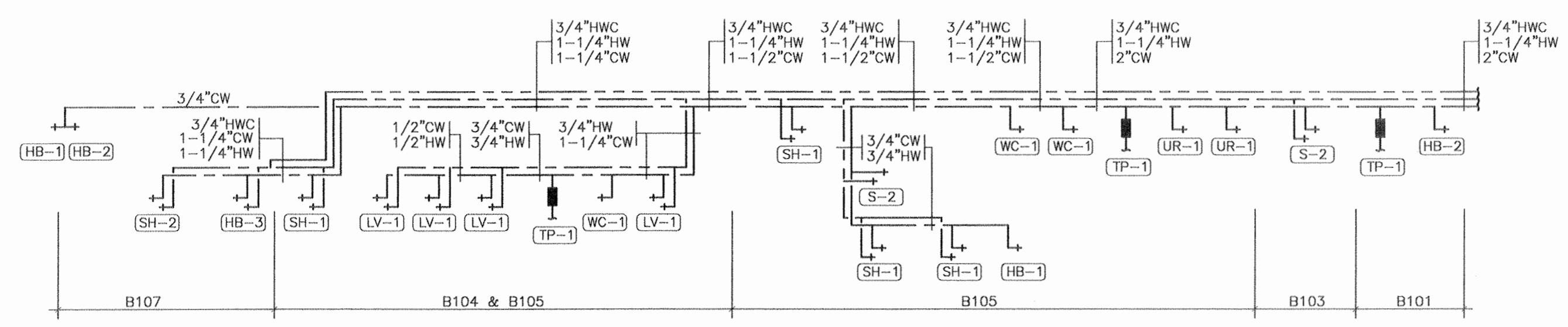
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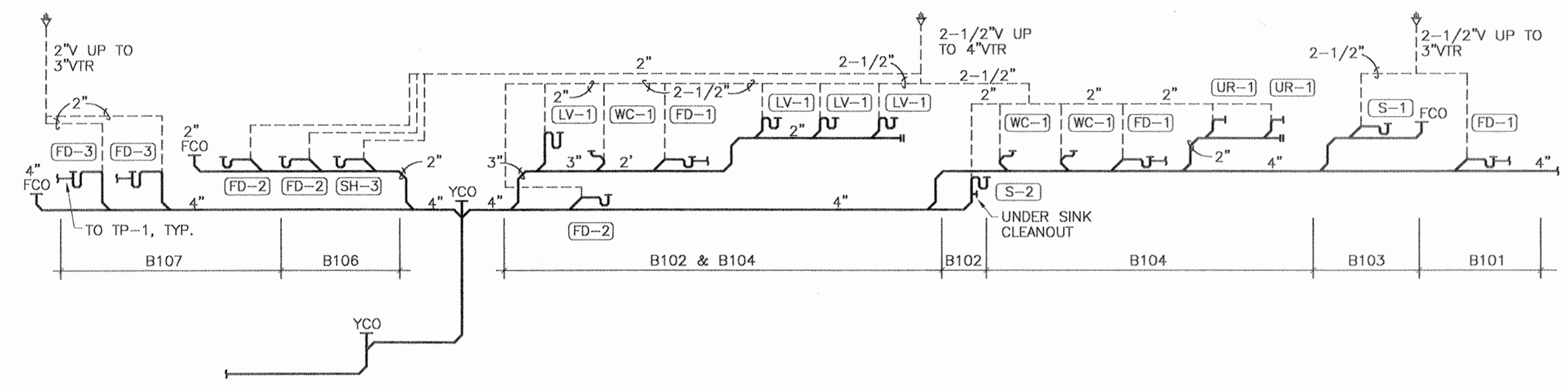
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Sheet Contents
**NEW WMD READY
 BUILDING
 PLUMBING
 FLOOR PLAN**

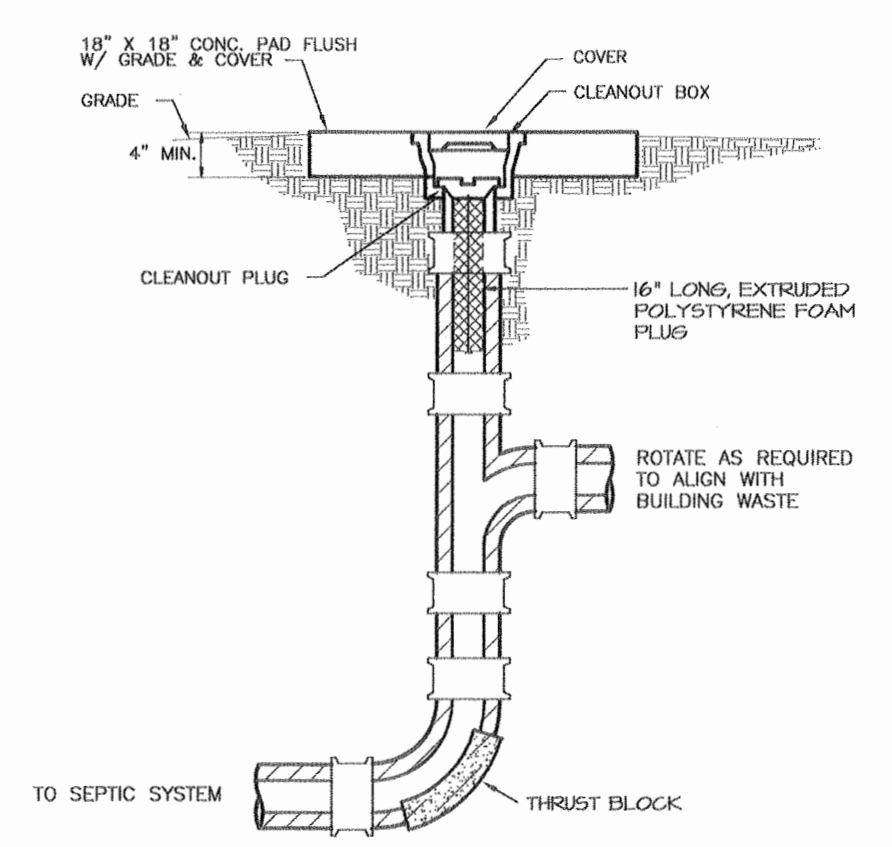
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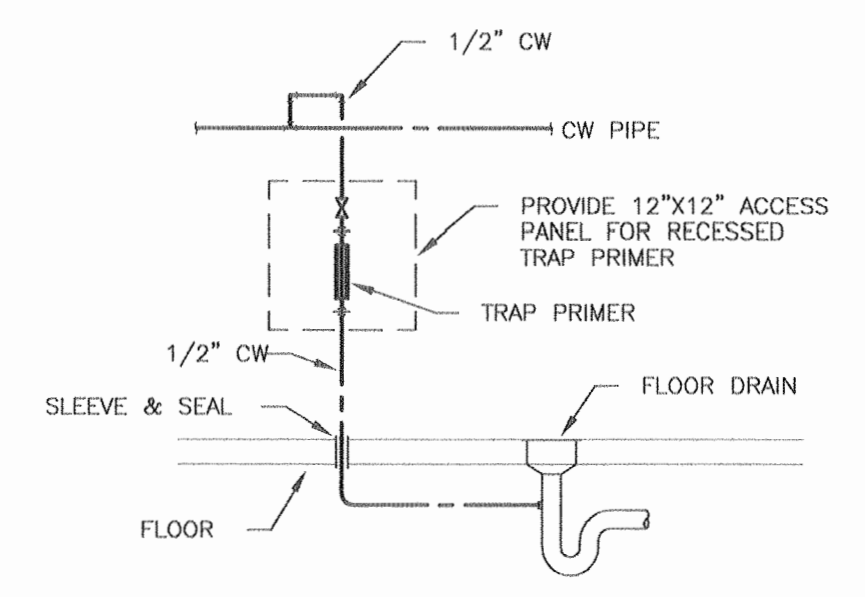
1 DOMESTIC WATER PLUMBING RISER DIAGRAM
 M2.4 SCALE: NONE



2 WASTE AND VENT PLUMBING RISER DIAGRAM
 M2.4 SCALE: NONE



3 YARD CLEANOUT DETAIL
 M2.4 SCALE: NONE



4 TRAP PRIMER DETAIL
 M2.4 SCALE: NONE

Notes:

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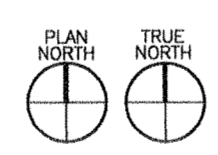
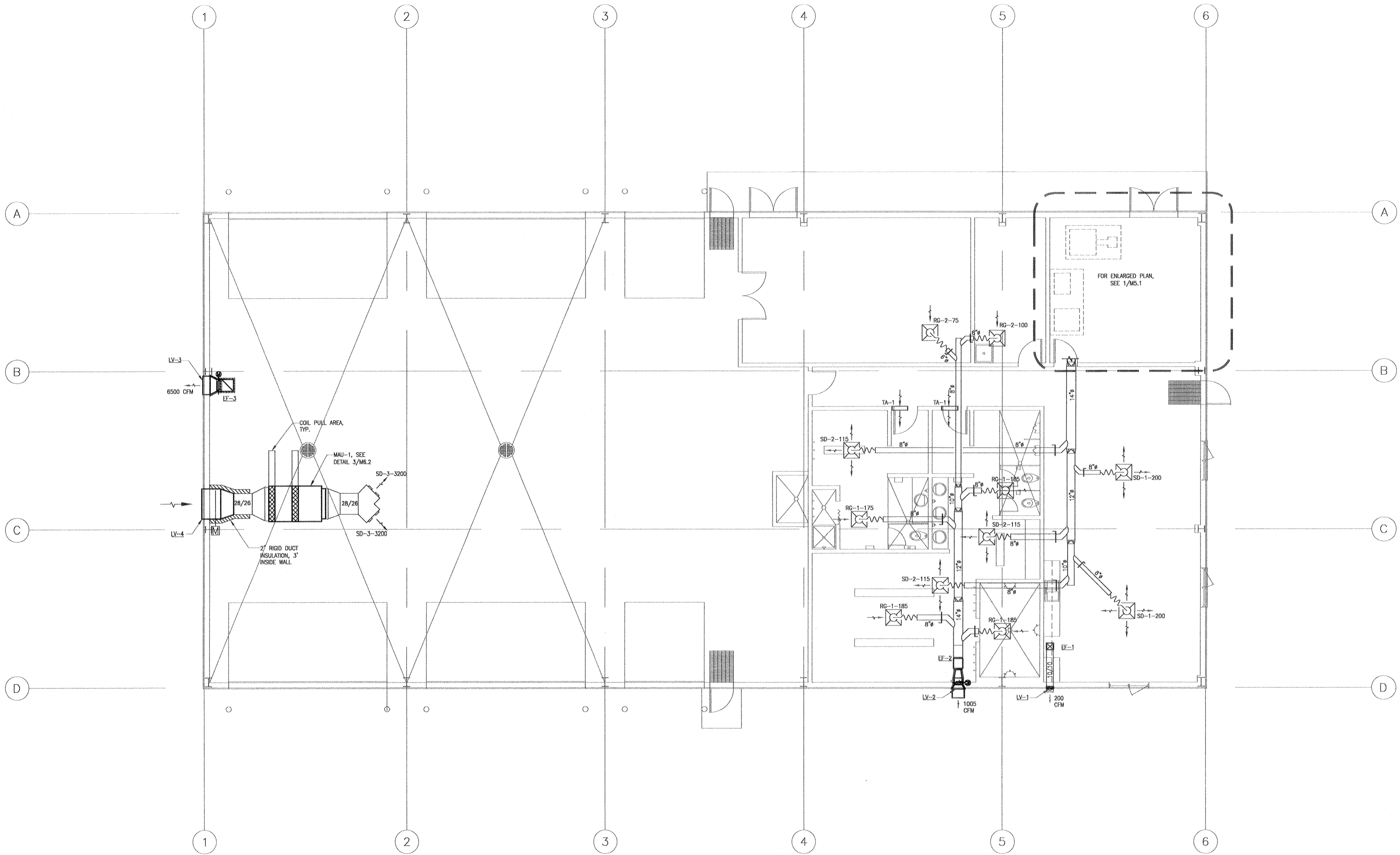
Sheet Contents
NEW WMD READY BUILDING PLUMBING RISERS AND DETAILS

Project Mgr.	KDM	Sheet No.
Drawn	LDS DS	M2.4
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SCHEDULE B

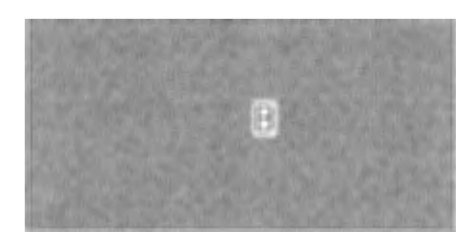


Notes:



1 NEW WMD READY BUILDING - VENTILATION FLOOR PLAN
SCALE: 3/16" = 1'-0"

BASE BID AND ALTERNATES NOTE:
WORK ON THIS SHEET DESCRIBES BASE BID ITEMS AND ALTERNATES #1 & #2. REFER TO OTHER MECHANICAL SHEETS FOR EXTENTS OF WORK.



SCHEDULE B

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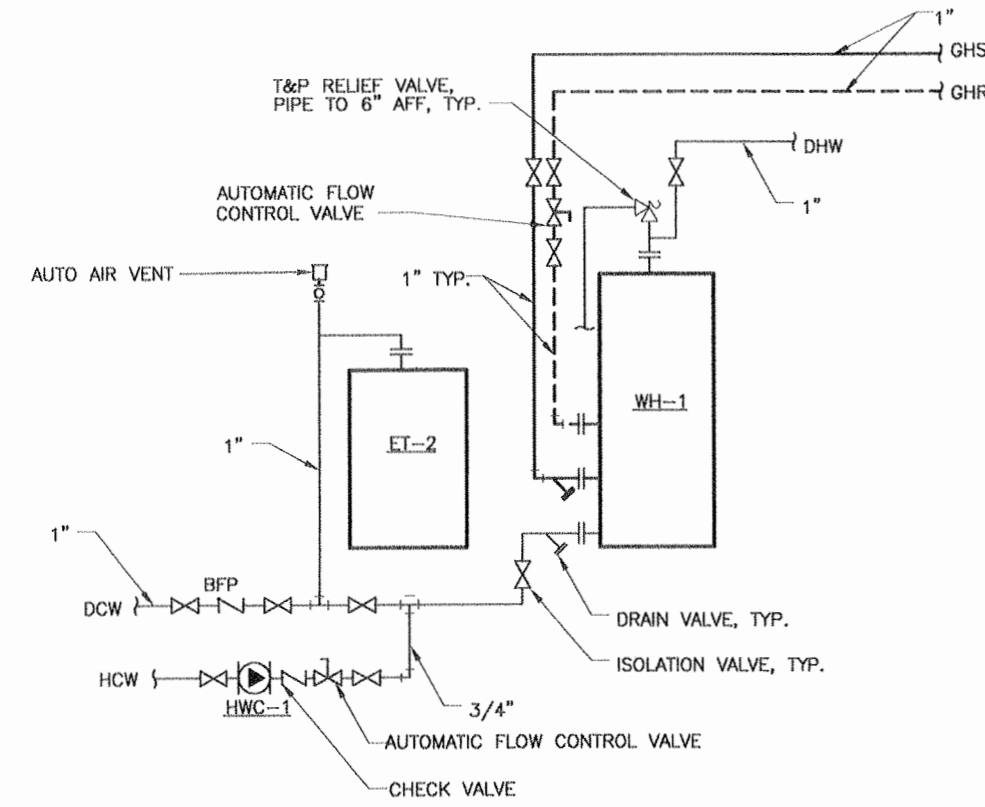
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Sheet Contents
NEW WMD READY BUILDING VENTILATION FLOOR PLAN

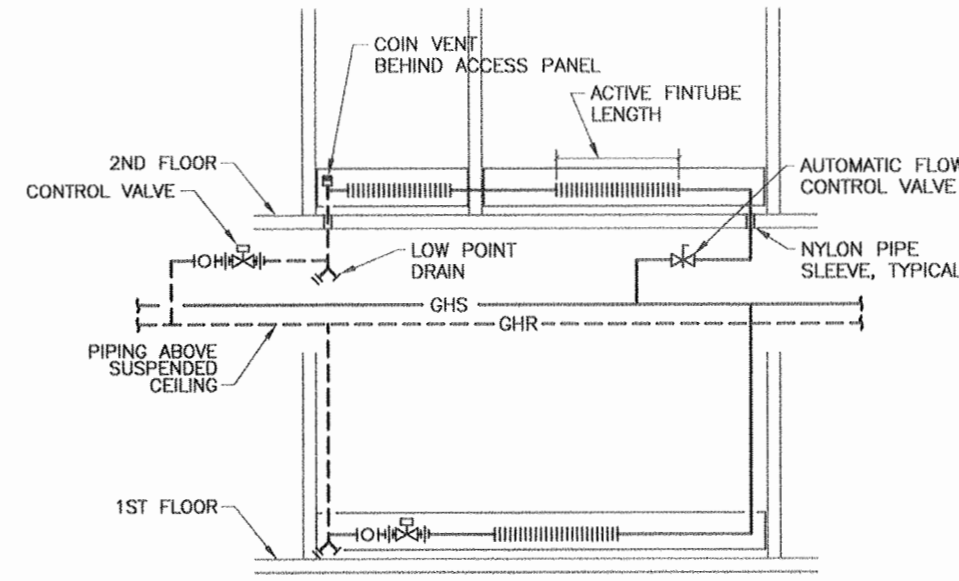
Project Mgr.	KDM	Sheet No.
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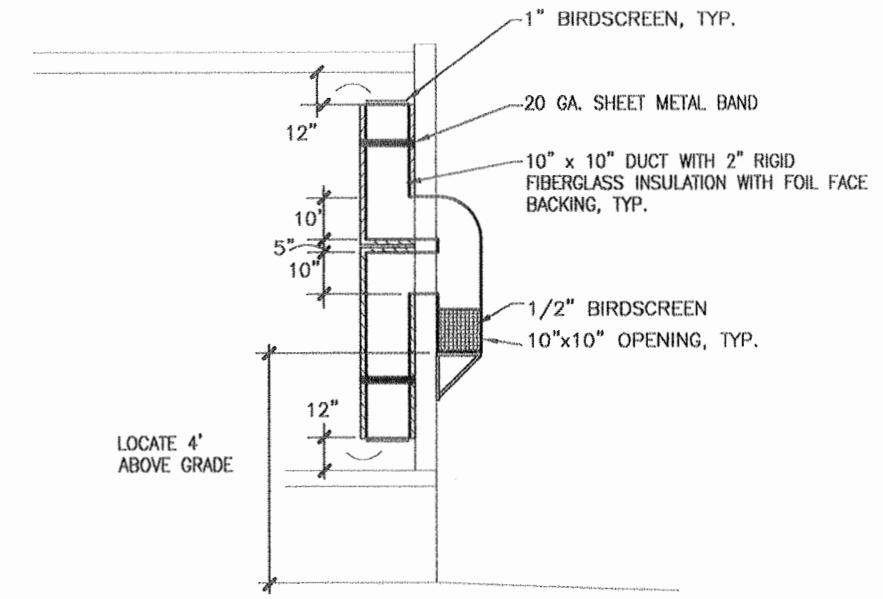
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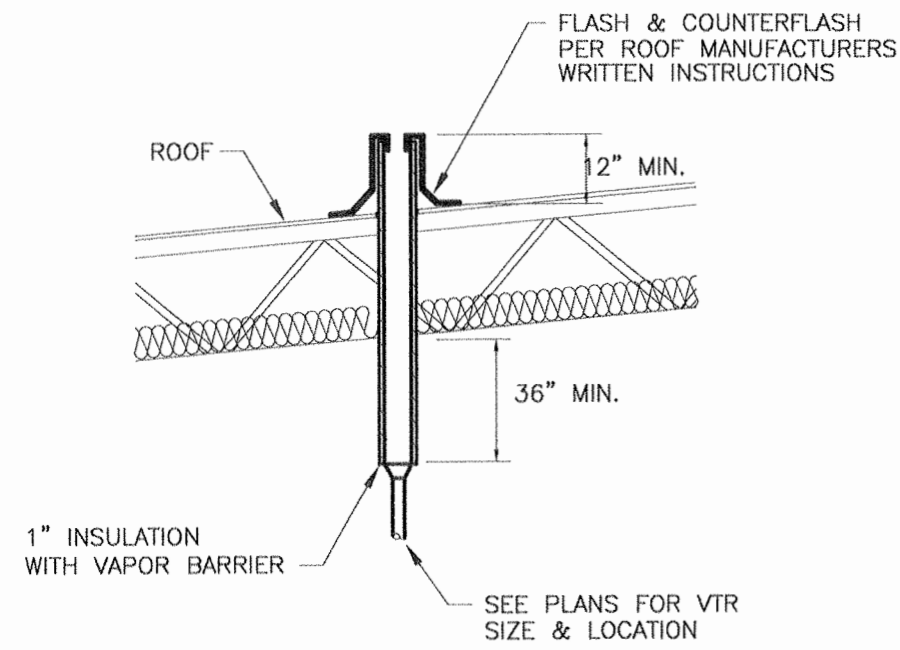
1 WATER HEATER PIPING SCHEMATIC
M6.1 SCALE: NONE



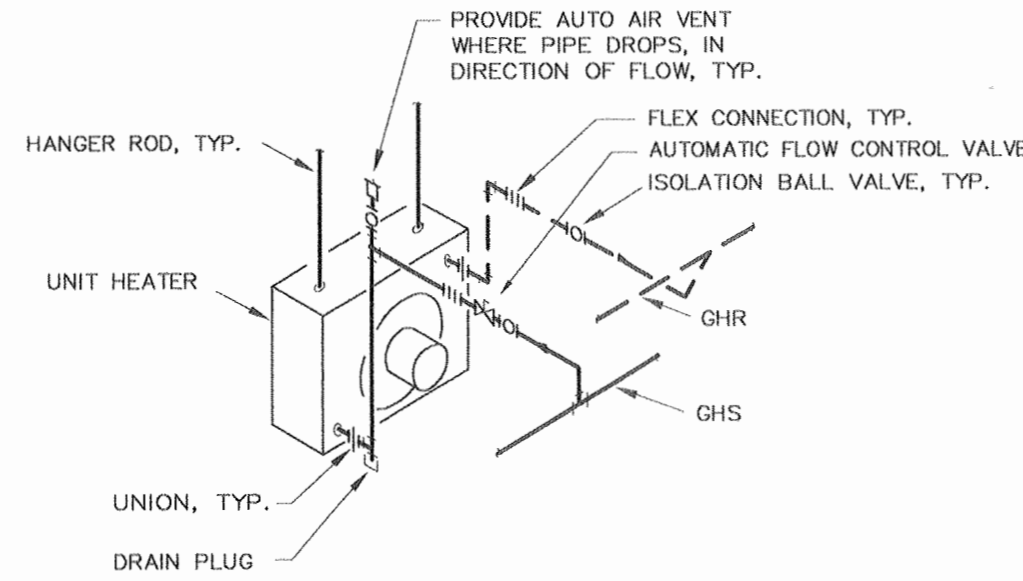
2 BASEBOARD PIPING DETAIL
M6.1 SCALE: NONE



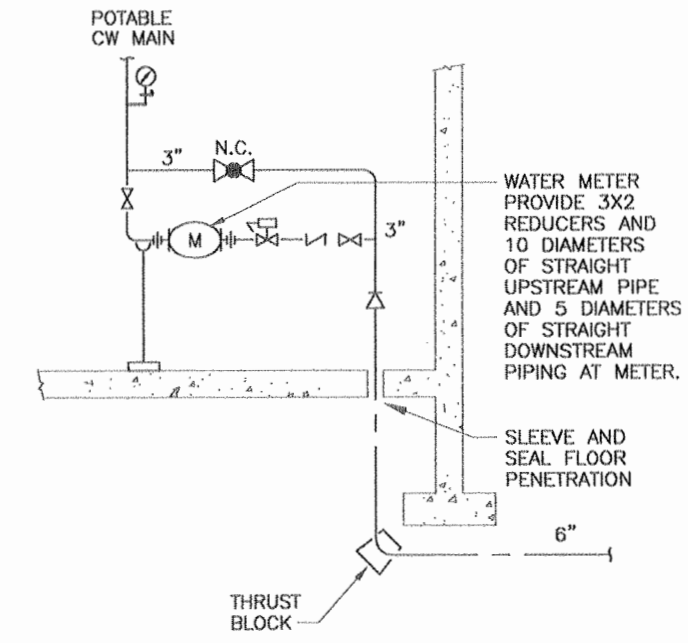
3 COMBUSTION AIR DUCT DETAIL
M6.1 SCALE: NONE



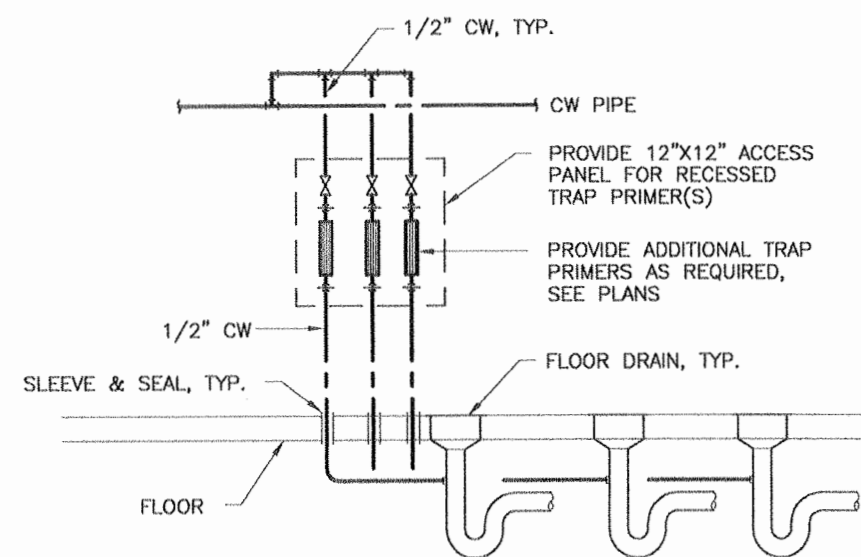
4 VENT THROUGH ROOF DETAIL
M6.1 SCALE: NONE



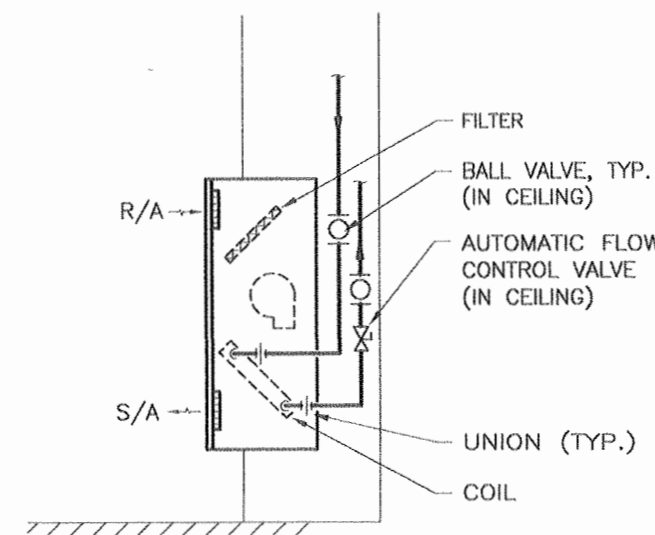
5 UNIT HEATER DETAIL
M6.1 SCALE: NONE



6 WATER SERVICE PIPING SCHEMATIC
M6.1 SCALE: NONE



7 TRAP PRIMER DETAIL
M6.1 SCALE: NONE



8 CABINET UNIT HEATER DETAIL
M6.1 SCALE: NONE

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**READY BUILDING
ADD/ALT (WMD)**
ALASKA ARMY NATIONAL GUARD
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

PROJ No. 020171A

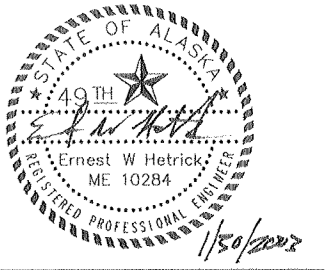
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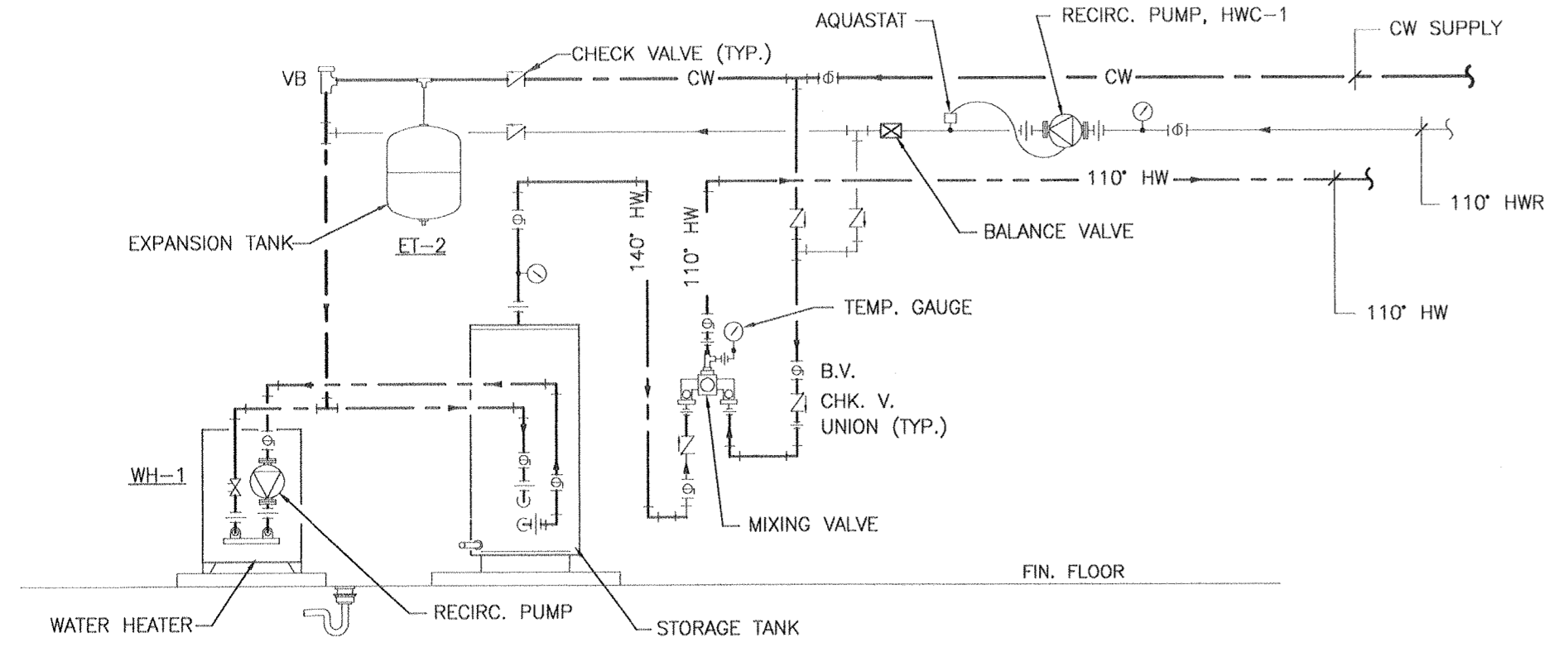
DETAILS

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Drawn	EWB MSM	
Checked	EWB SVB	
Date	30 JAN 03	USKH w.o. 584209

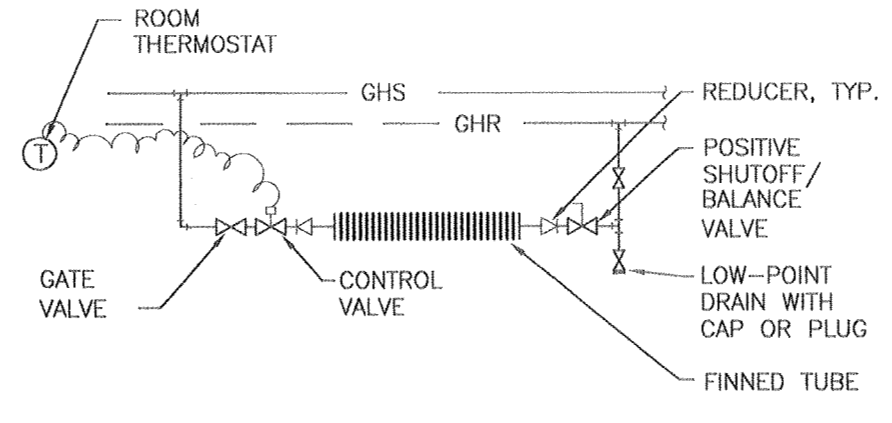
SCHEDULE A



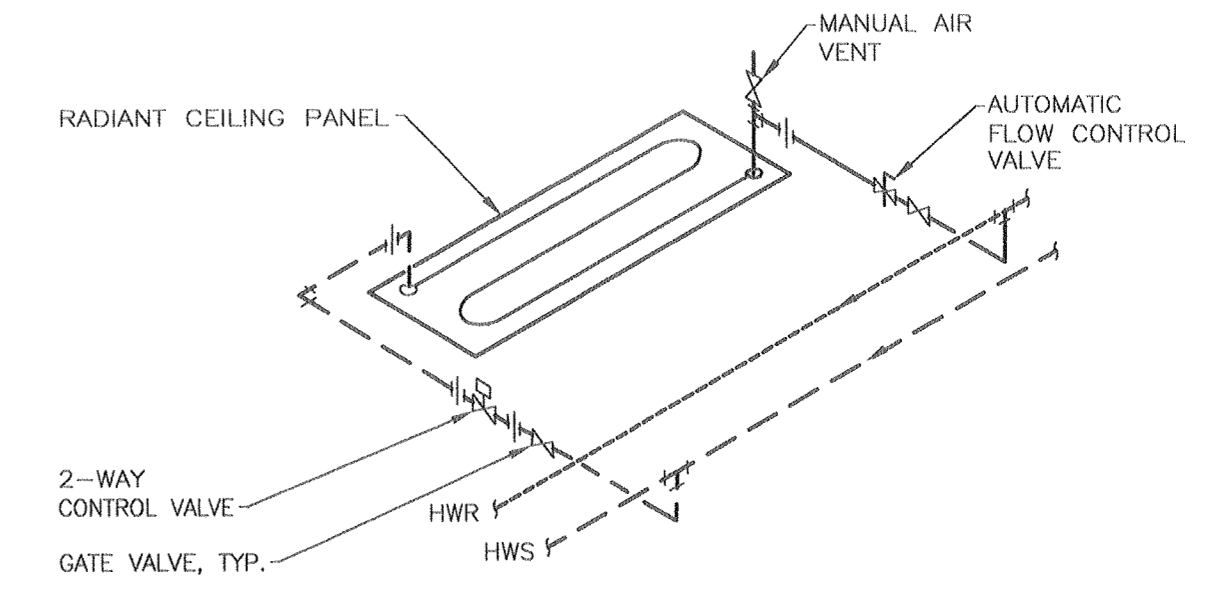
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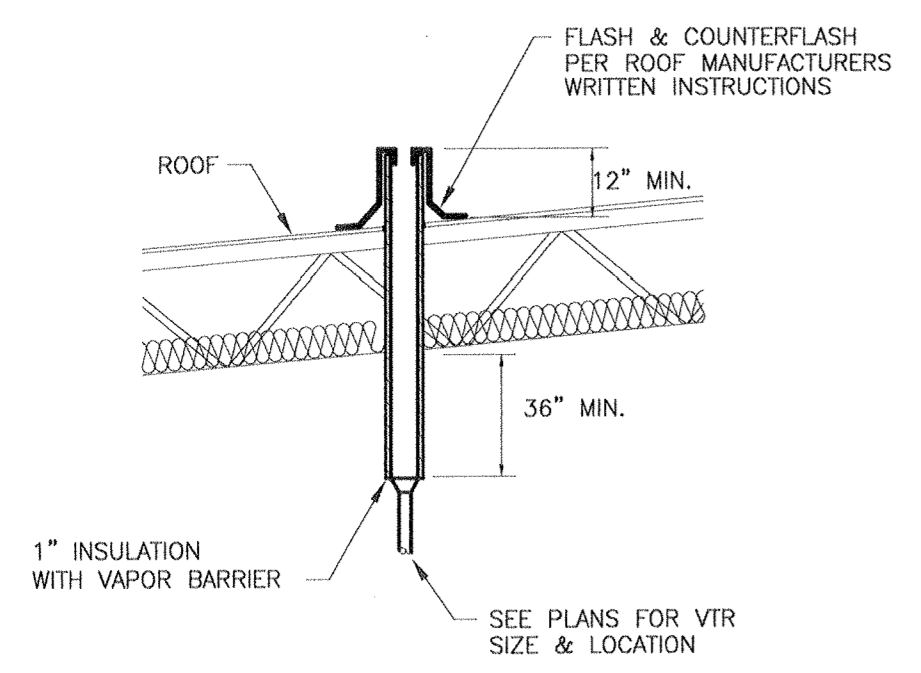
1 WATER HEATER PIPING SCHEMATIC
M6.1 SCALE: NONE



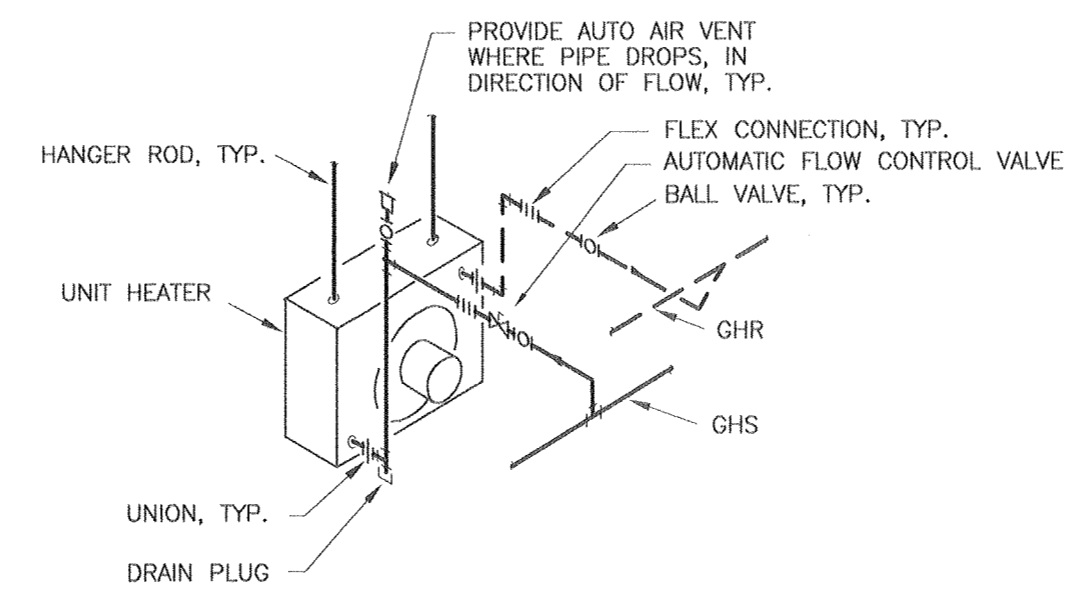
2 BASEBOARD PIPING SCHEMATIC
M6.1 SCALE: NONE



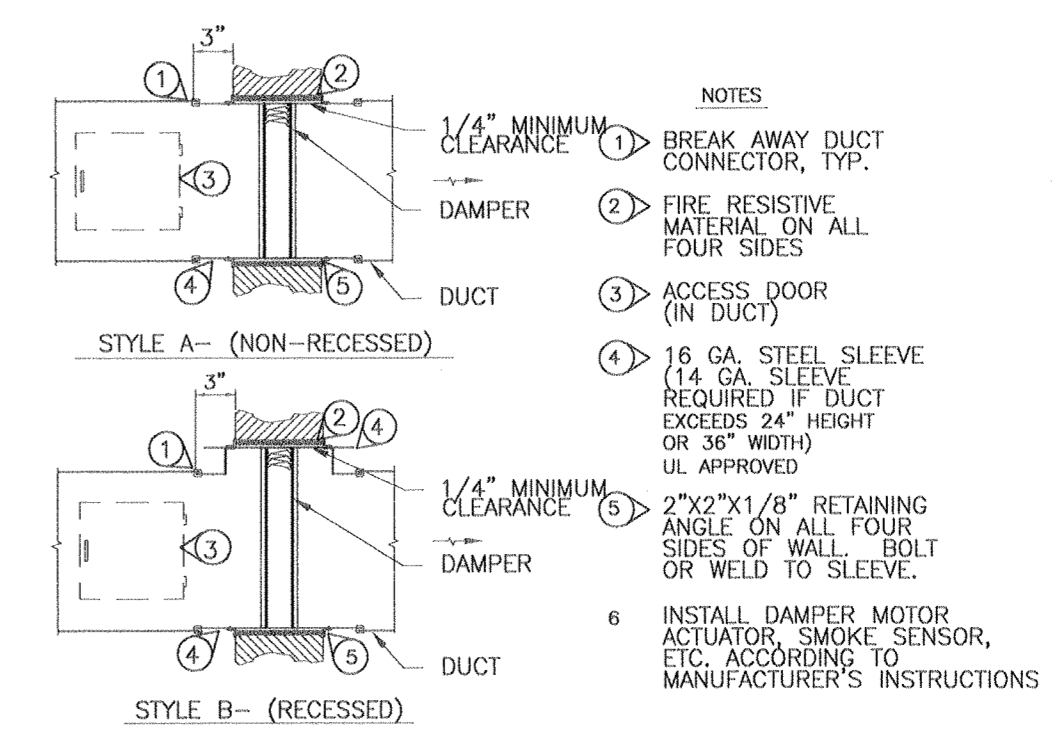
3 RADIANT HEAT PANEL
M6.1 SCALE: NONE



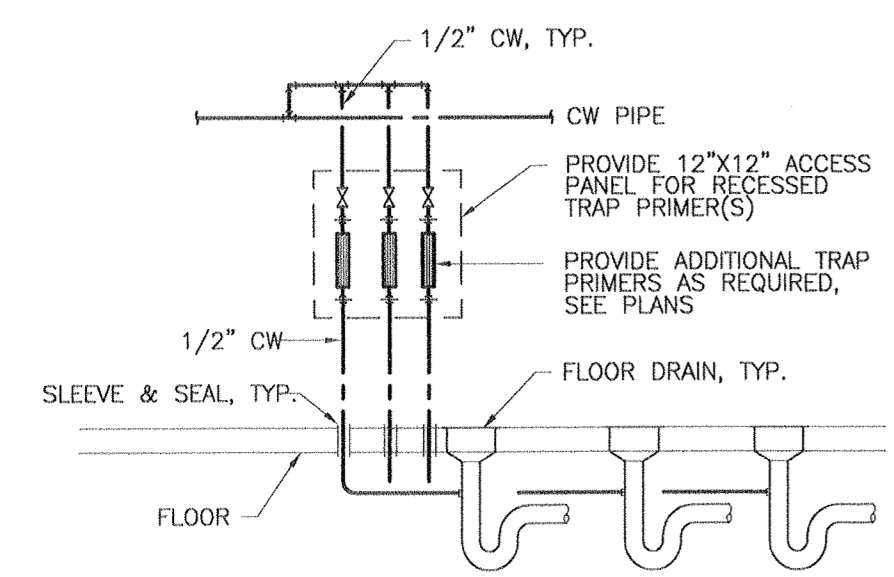
4 VENT THROUGH ROOF DETAIL
M6.1 SCALE: NONE



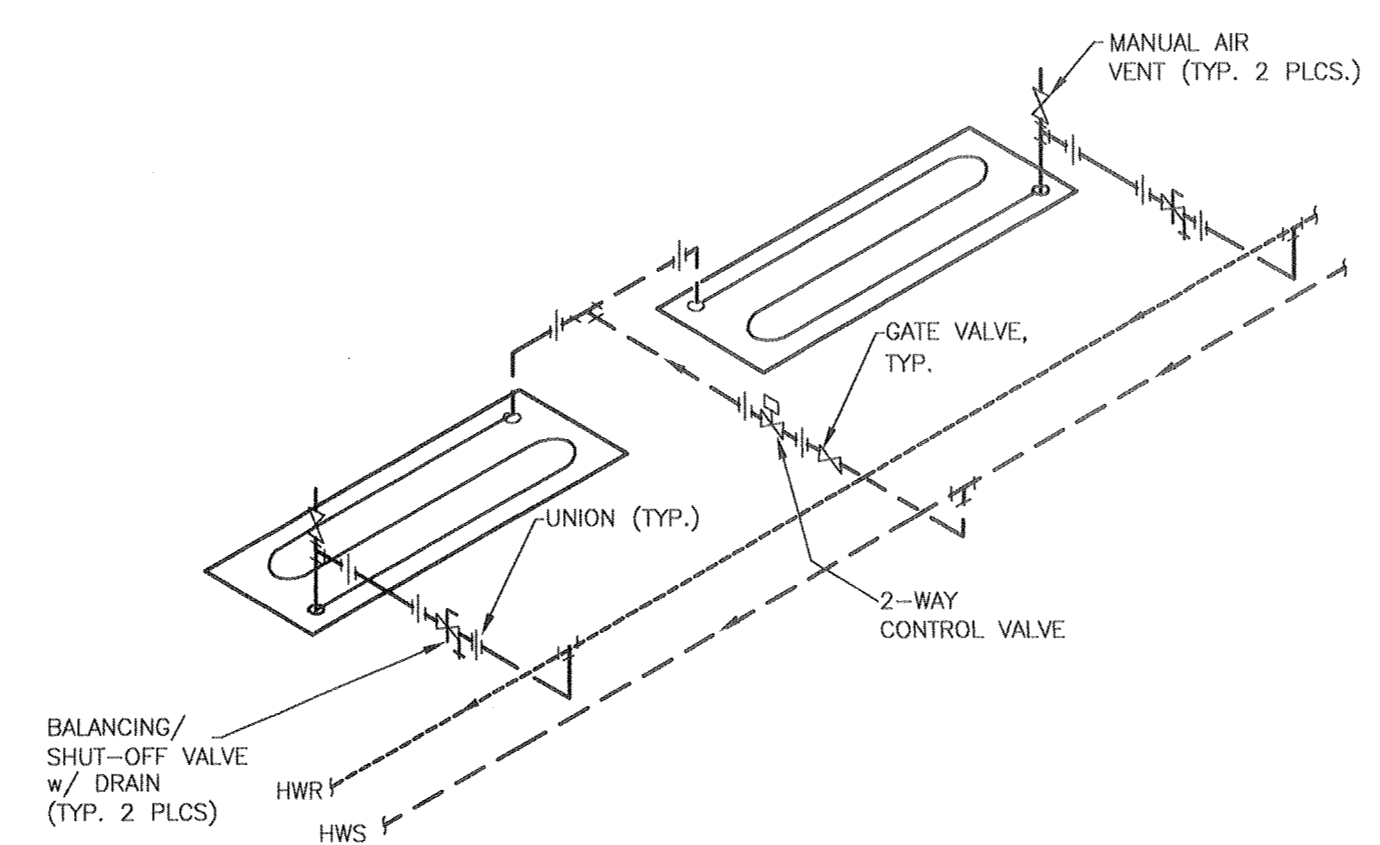
5 UNIT HEATER DETAIL
M6.1 SCALE: NONE



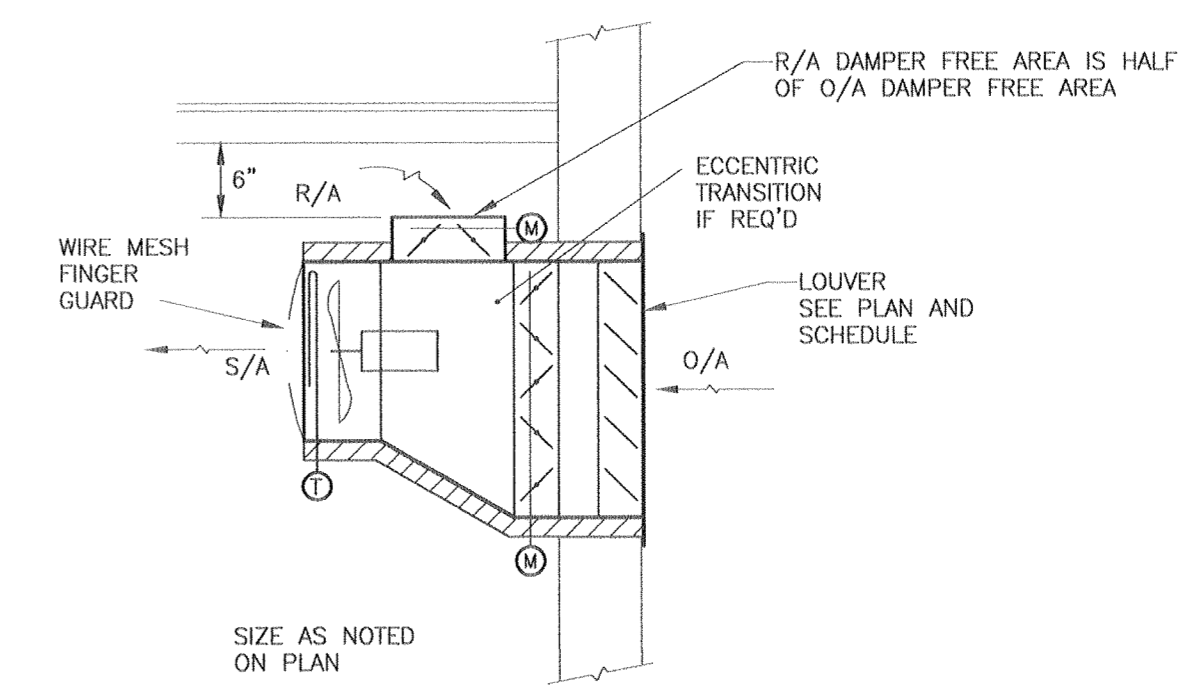
6 TYPICAL FIRE & SMOKE DAMPER DETAIL
M6.1 SCALE: NONE



7 TRAP PRIMER DETAIL
M6.1 SCALE: NONE



8 RADIANT HEAT PANEL PIPING SCHEMATIC
M6.1 SCALE: NONE



9 COOLING FAN DETAIL
M6.1 SCALE: NONE

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PROJ. No. 020171A

Date	Revision	By

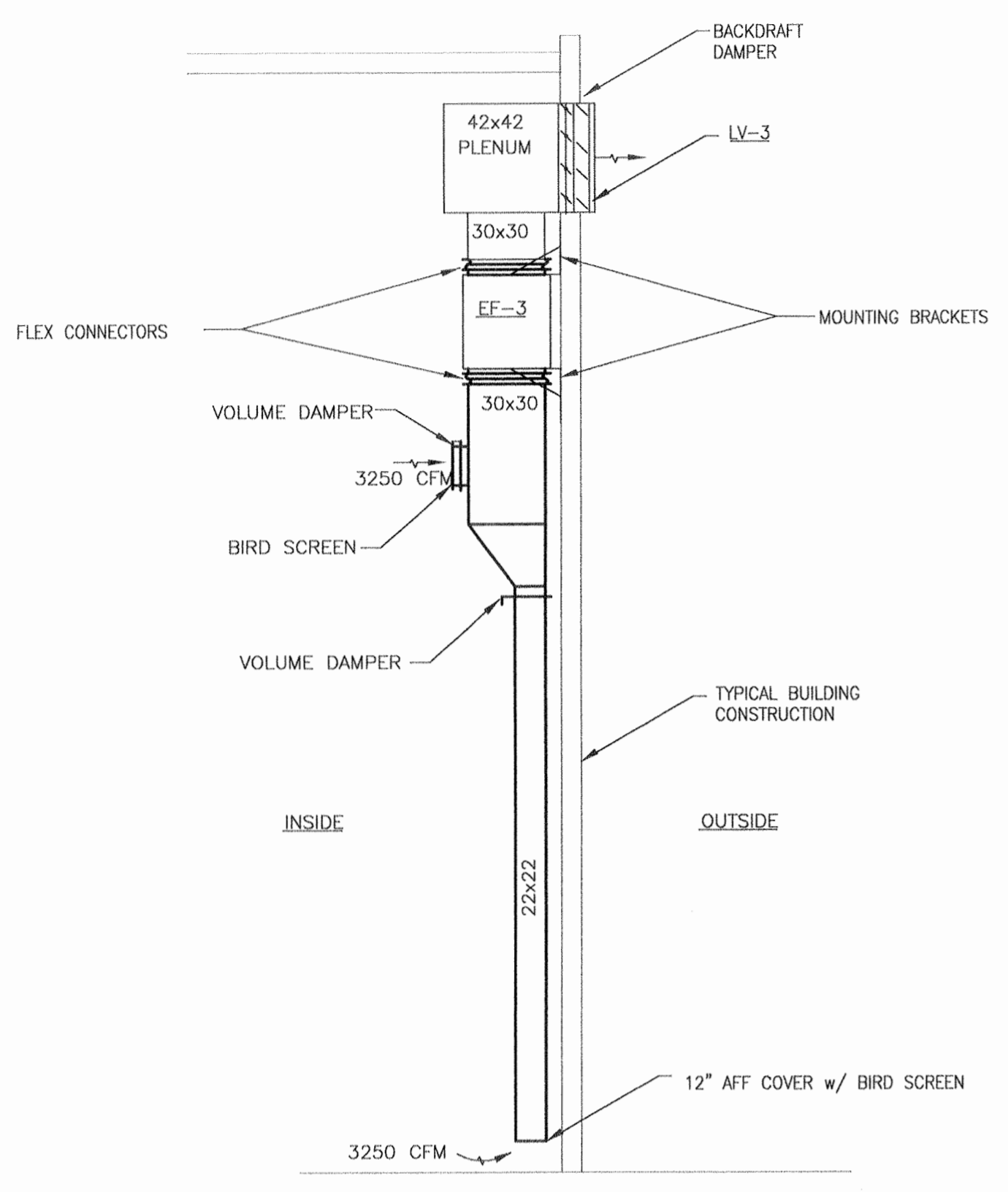
Sheet Contents
NEW WMD READY BUILDING DETAILS

Project Mgr.	KDM	Sheet No.
Drawn	BCL DS	M6.1
Drawn	EWB MSM	
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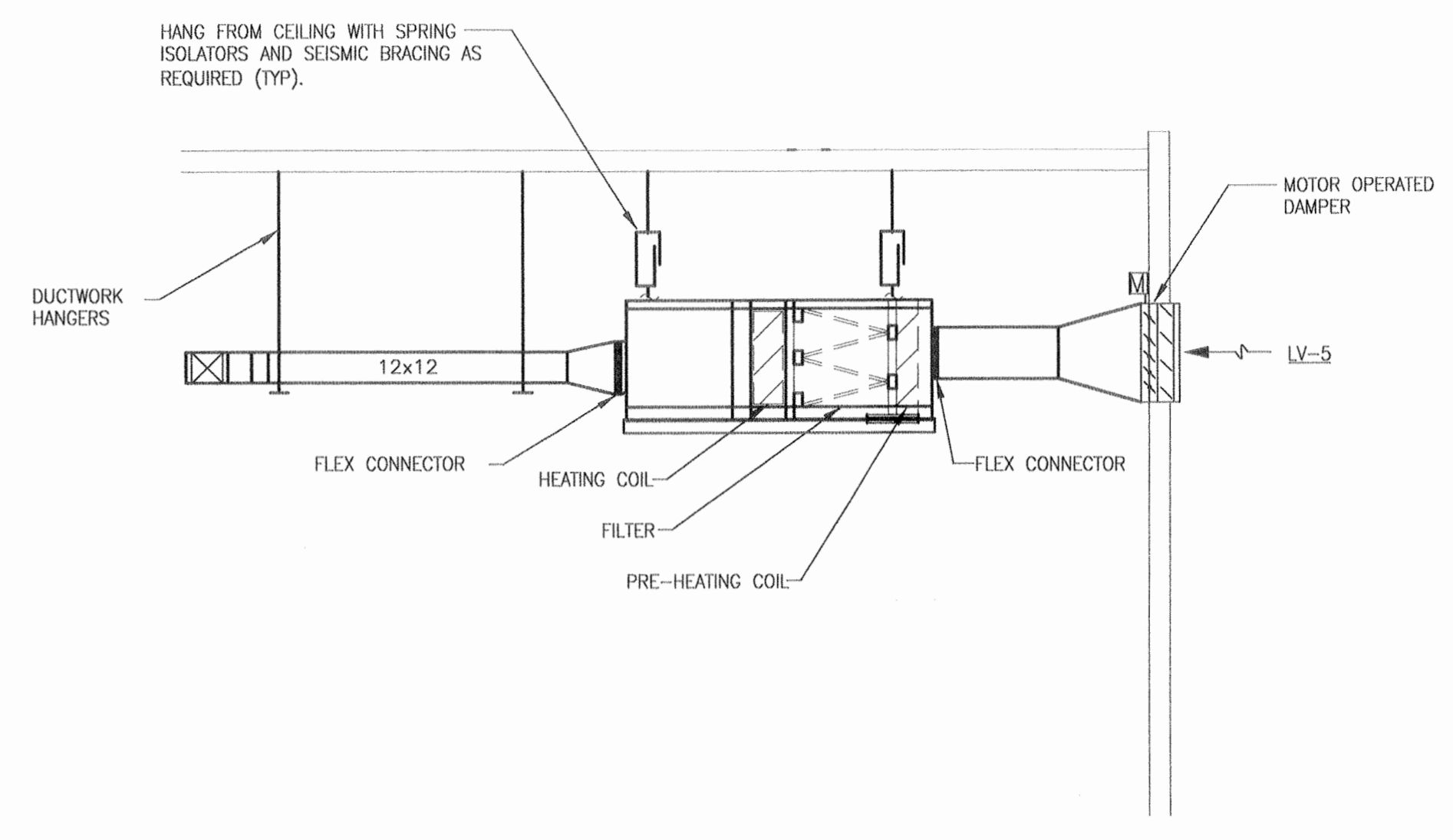
SCHEDULE B



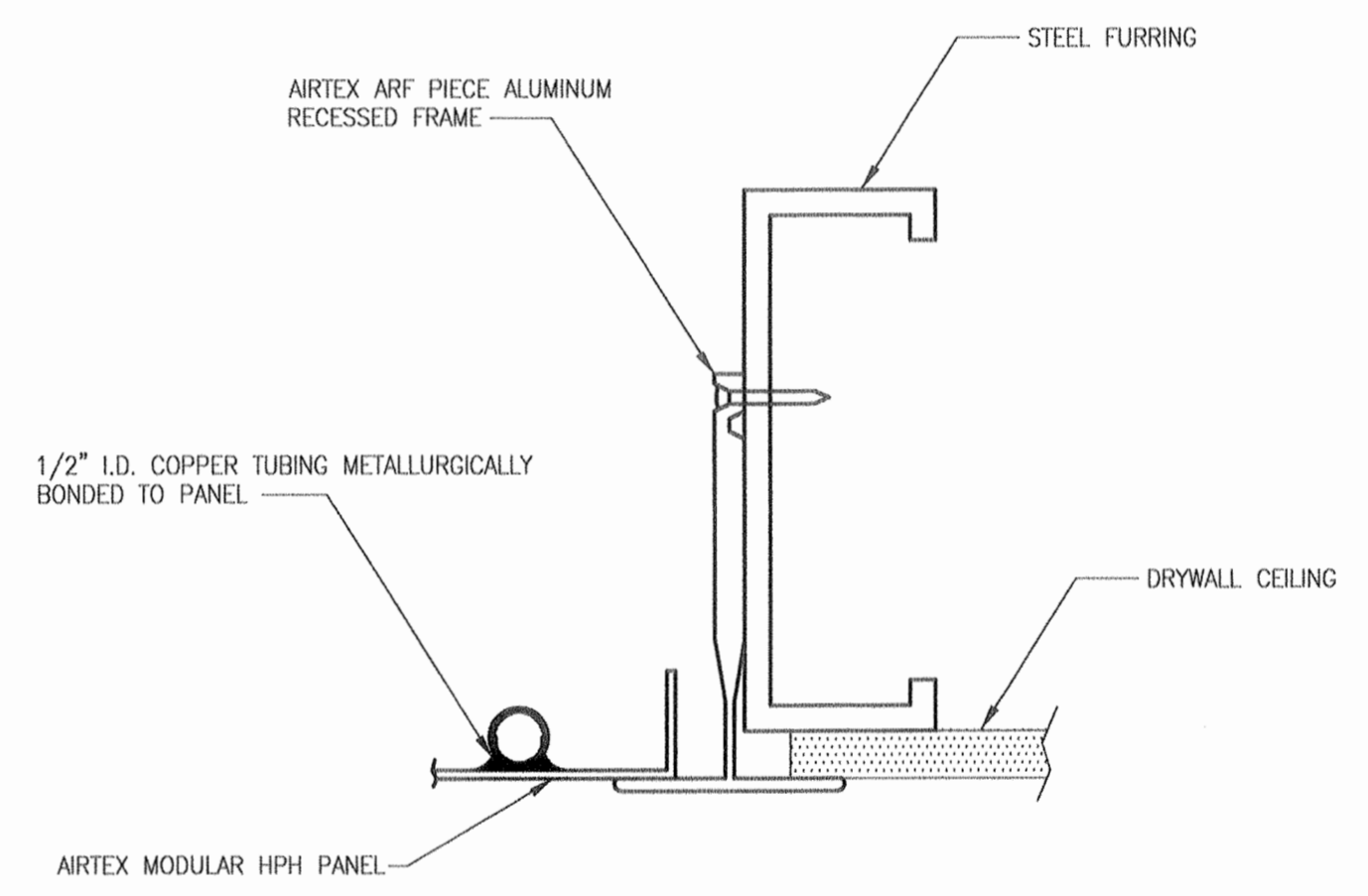
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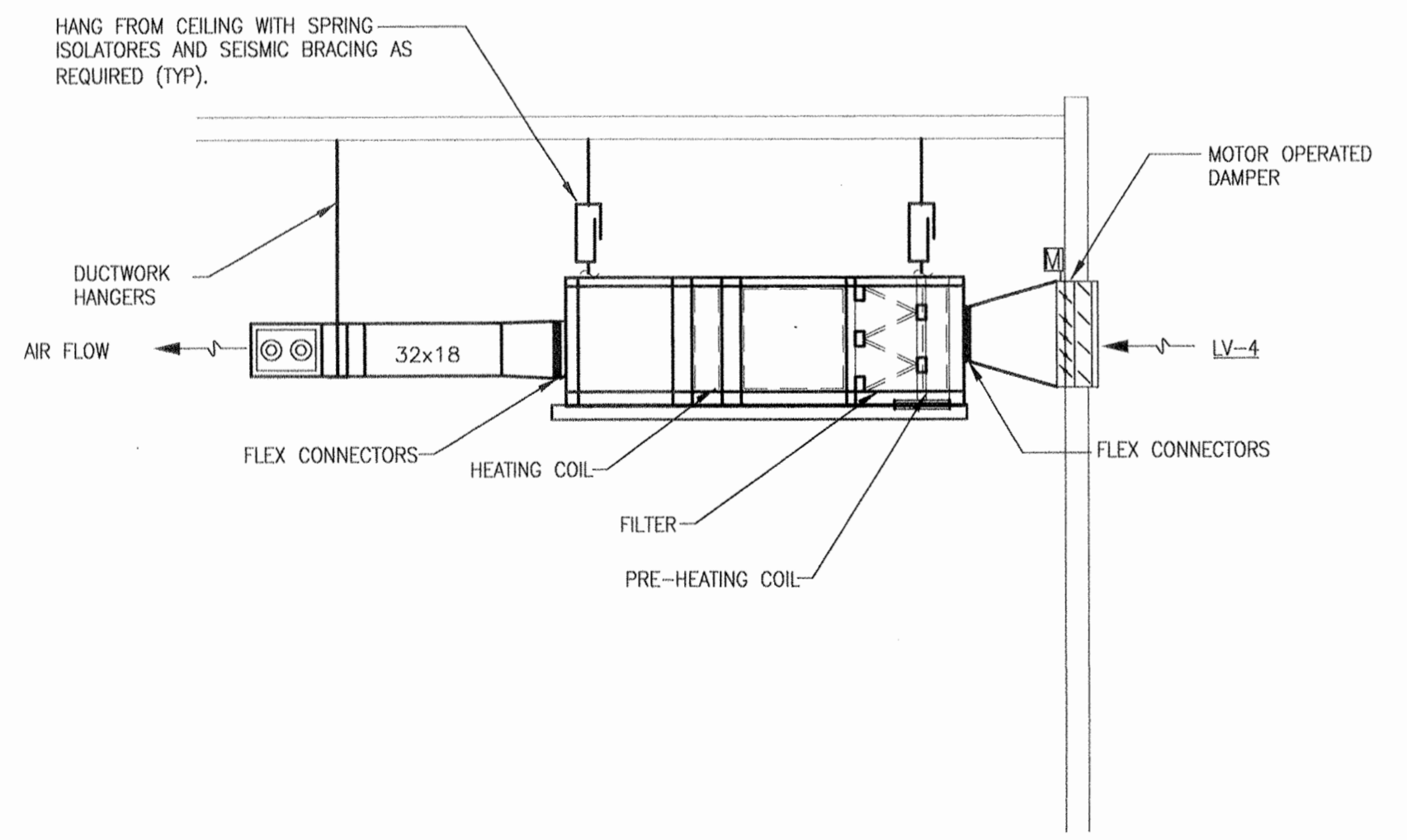
1 EXHAUST FAN EF-3 DETAIL
SCALE: NONE



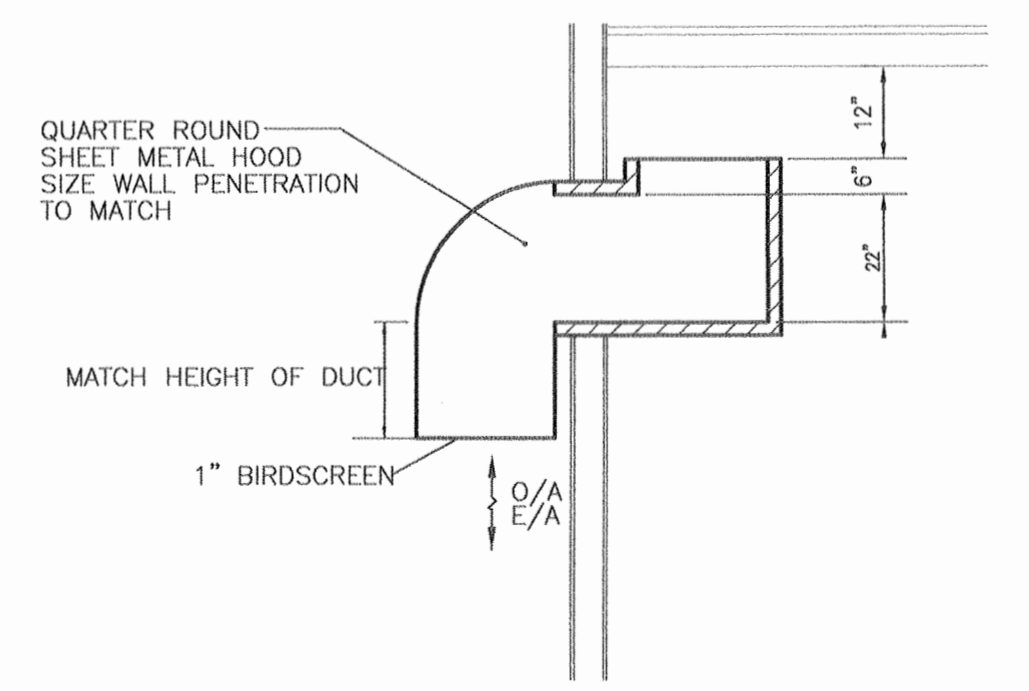
2 AIR HANDLER AHU-1 DETAIL
SCALE: NONE



4 RADIANT PANEL MOUNTING DETAIL
SCALE: NONE



3 MAKE-UP AIR UNIT MAU-1 DETAIL
SCALE: NONE



5 COMBUSTION AIR DUCT DETAIL
SCALE: NONE



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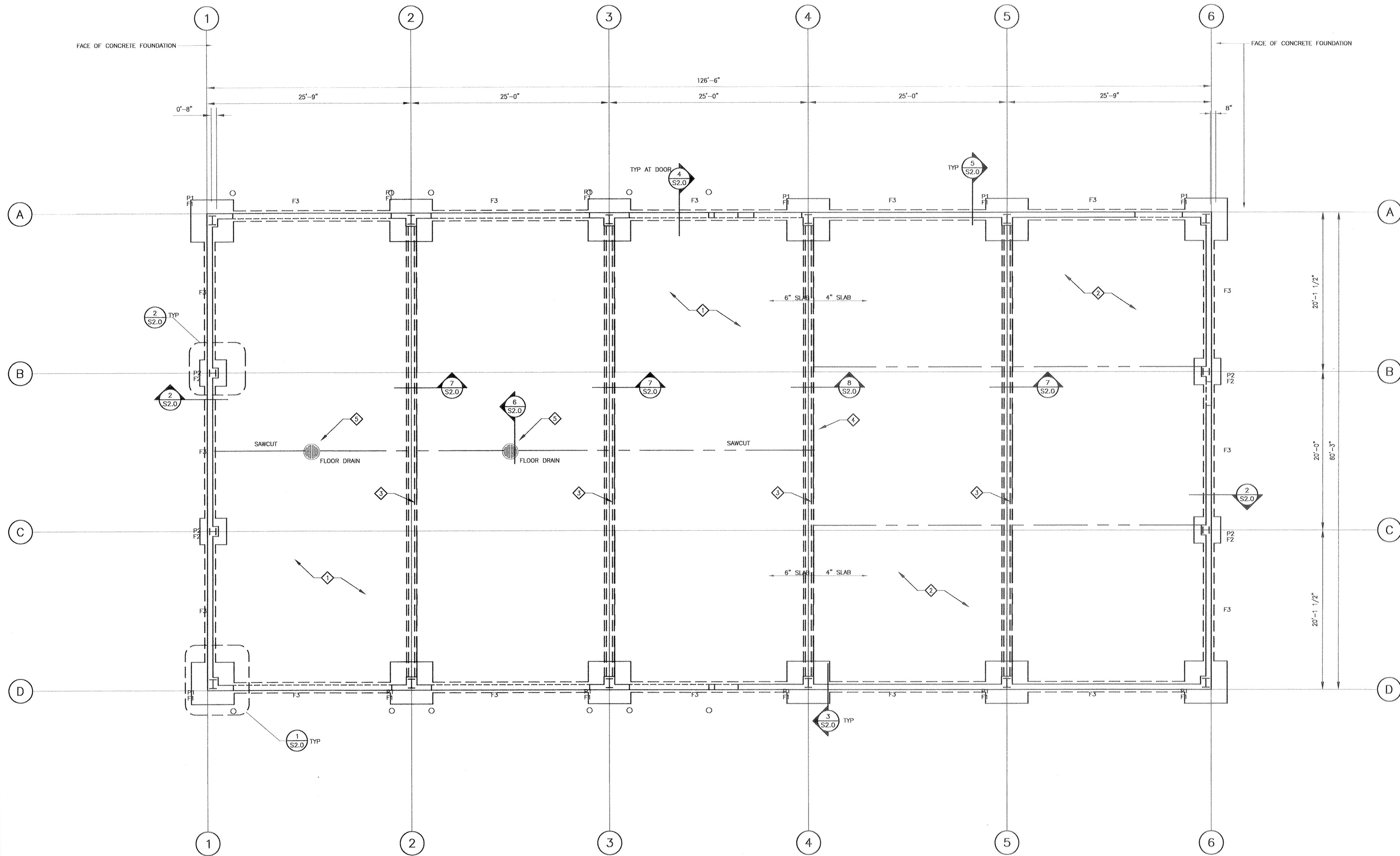
Sheet Contents
NEW WMD READY BUILDING DETAILS

Project Mgr.	KDM	Sheet No.
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Drawn	EWB MSM	
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SCHEDULE B



Notes:



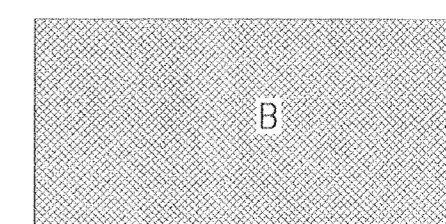
1 NEW WMD READY BUILDING - FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

FOOTING (F) SCHEDULE				
MARK	FOOTING DIMENSION		FOOTING REINFORCING	REMARKS
	"w"	"t"		
F1	5'-4"	5'-4"	(6) #5 BARS E.W. T&B	
F2	3'-4"	3'-4"	(4) #5 BARS E.W. BOT	
F3	1'-4"	1'-0"	(2) #5 BARS CONT.	

PILASTER (P) SCHEDULE				
MARK	PILASTER SIZE	"d"	REINFORCING	REMARKS
P1	16" X 20"	3'-0"	(8) #6 VERTICALS	SEE DETAIL 1/S2.0
P2	16" X 16"	3'-0"	(6) #6 VERTICALS	SEE DETAIL 2/S2.0

- KEY NOTES**
- 1 6" CONCRETE SLAB W/ #3 AT 12" O.C. EACH WAY, CHAIRED TO MID SLAB THICKNESS, SLOPE TO DRAIN SUMP.
 - 2 4" CONCRETE SLAB W/ 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC.
 - 3 #9 DRAG BAR.
 - 4 CONSTRUCTION JOINT
 - 5 FLOOR SUMP, SEE DETAIL.

BASE BID AND ALTERNATES NOTE:
ALL WORK ON THIS SHEET IS PART OF THE BASE BID.



SCHEDULE B

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Project:

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FORT RICHARDSON, ALASKA

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NEW WMD
READY
BUILDING
FOUNDATION PLAN

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GENERAL STRUCTURAL NOTES

(APPLIES UNLESS NOTED OTHERWISE)

CODE:

2000 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC)

DESIGN LOADS:

ROOF LIVE LOAD 48 PSF
 TYPICAL ROOF DEAD LOAD 13 PSF
 WIND LOADS:
 3-SECOND GUST 130 MPH
 EXPOSURE D
 IMPORTANCE FACTOR 1.15

STRUCTURAL SYSTEM: MOMENT FRAME SYSTEM
 R: NA
 Ω: NA
 S_s: 1.57
 S₁: 0.60
 INCLUDE 50% SNOW LOAD FOR SEISMIC DESIGN

SEISMIC LOADS:

SEISMIC DESIGN CATEGORY: D
 SEISMIC USE GROUP: III
 IMPORTANCE FACTOR: 1.5
 SITE CLASSIFICATION: C

FOUNDATIONS:

GEOTECHNICAL CONSULTANT: CROWTHER ASSOCIATES
 REPORT NUMBER: 014.046

SPREAD FOOTINGS	DESIGN SOIL BEARING VALUE
SPREAD FOOTINGS ON FIRM UNDISTURBED SOIL	3,000 PSF

CONCRETE:

TYPICAL CONCRETE COMPRESSIVE STRENGTHS		
CONCRETE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT
UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE	3,000 PSI	4 1/2" MAXIMUM
SLABS ON GRADE	3,000 PSI	3" MAXIMUM
FOOTINGS AND STEM WALLS	3,000 PSI	4" MAXIMUM

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.

ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED TO BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BONDED BY CONSTRUCTION JOINTS, KEYS OR SAW CUT, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET. KEYS OR CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.

REINFORCING:

TYPICAL REINFORCING BAR STRENGTHS	
#3 OR LARGER	ASTM A615 (GR60) DEFORMED
REINFORCING TO BE WELDED	ASTM A706 (GR60) LOW ALLOY, DEFORMED
WELDED WIRE MESH	ASTM A185, WIRE PER ASTM A82

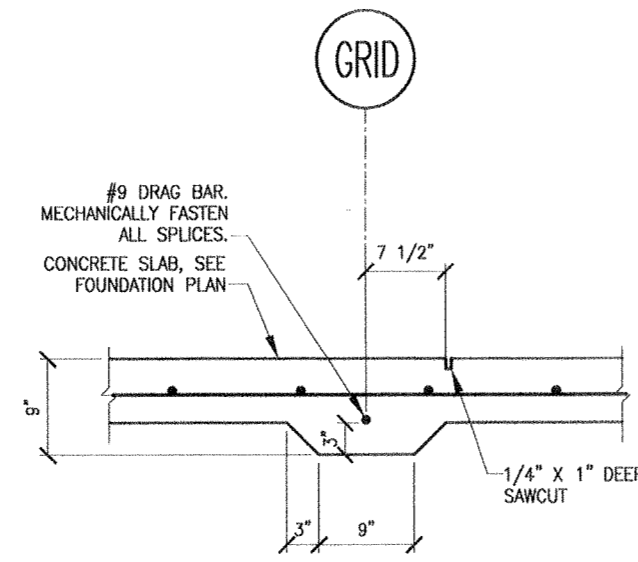
TYPICAL CLEAR CONCRETE COVERAGE (UNLESS NOTED OTHERWISE)	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	#6 AND LARGER 2" #5 AND SMALLER 1 1/2"
FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS OR WALLS	#6 AND LARGER 2" #5 AND SMALLER 1 1/2"
BEAMS (TO PRIMARY REINFORCEMENT OR STIRRUPS)	1 1/2"
ALL OTHERS PER LATEST EDITION OF ACI 318.	

ALL REINFORCING TO BE WELDED SHALL BE WELDED IN ACCORDANCE WITH AWS D1.4. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY.

LAP SPLICES IN CONCRETE:

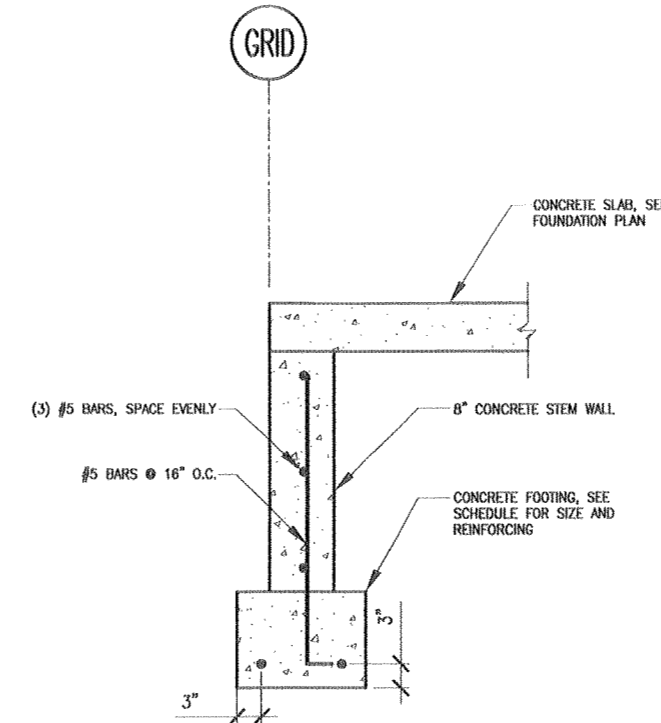
UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, AND SLABS SHALL BE CLASS "B" TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS (O.C.). ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF ACI 318.



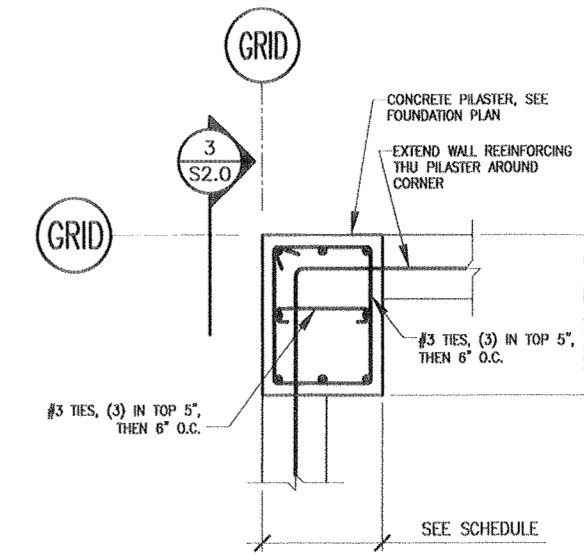
7 DRAG BAR DETAIL

S2.0 SCALE: 1"=1'-0"



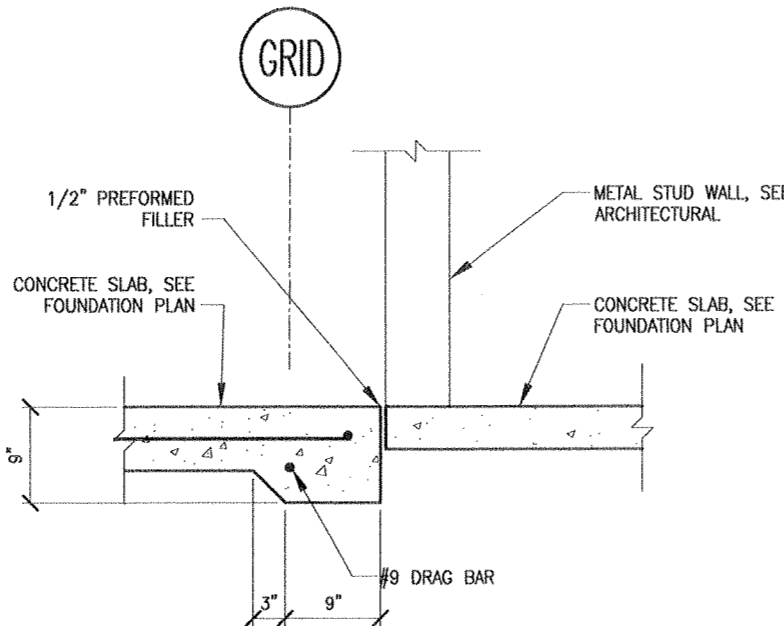
4 STEM WALL AT DOOR OPENING

S2.0 SCALE: 3/4"=1'-0"



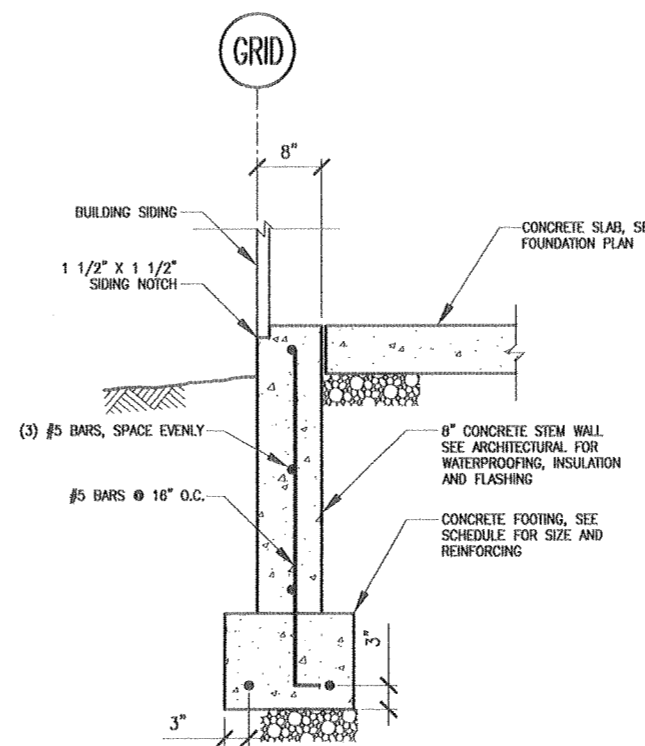
1 PILASTER PLAN

S2.0 SCALE: 3/4"=1'-0"



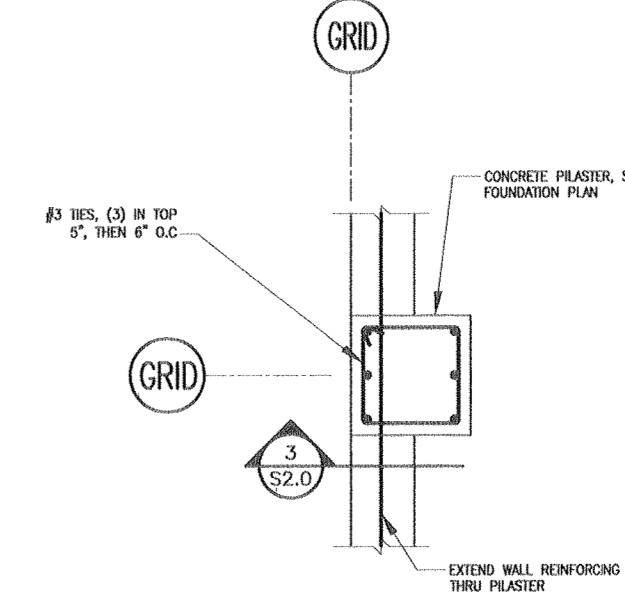
8 CONSTRUCTION JOINT DETAIL

S2.0 SCALE: 1"=1'-0"



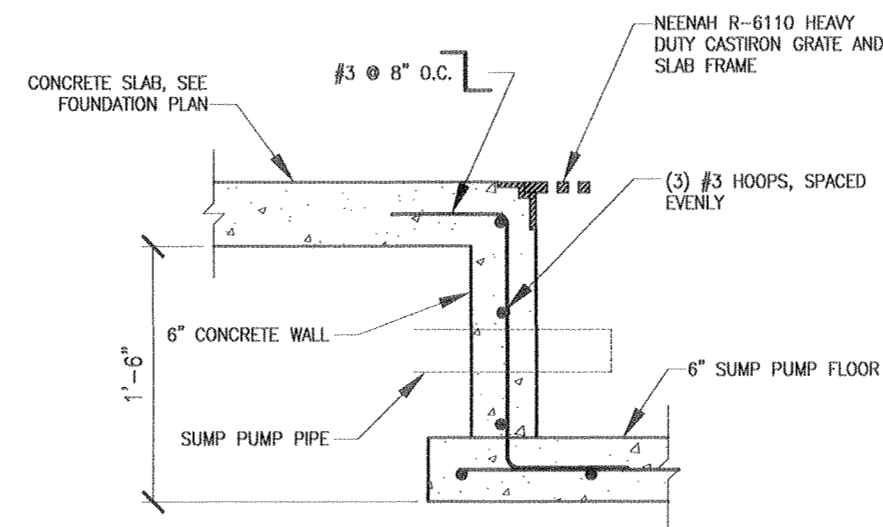
5 STEM WALL SECTION

S2.0 SCALE: 3/4"=1'-0"



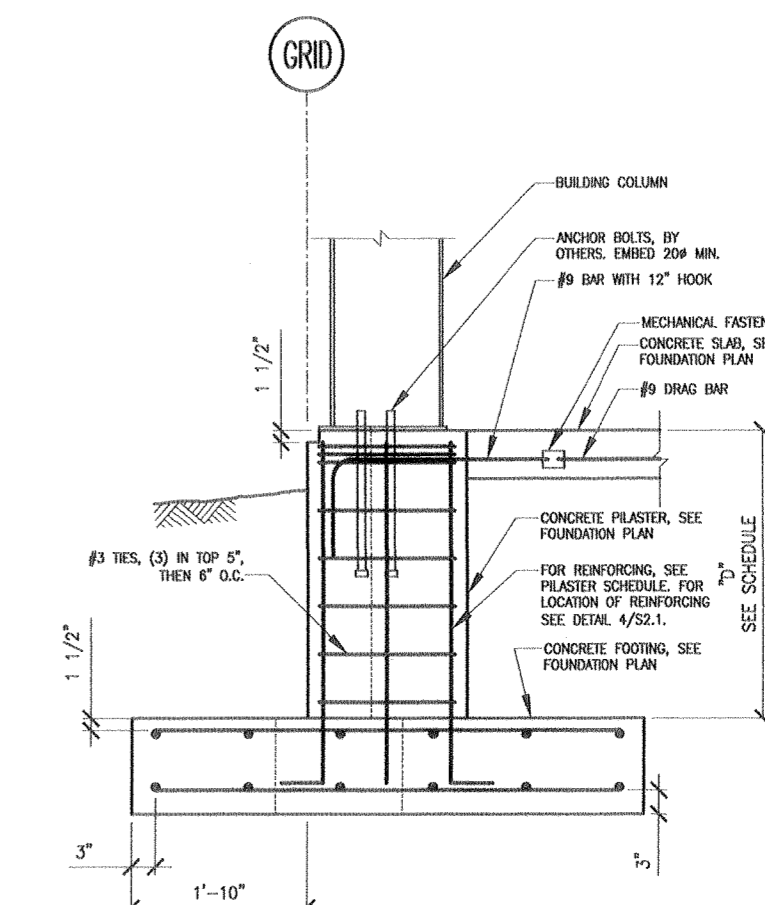
2 PILASTER PLAN

S2.0 SCALE: 3/4"=1'-0"



6 SUMP PIT DETAIL

S2.0 SCALE: 1"=1'-0"



3 PILASTER SECTION

S2.0 SCALE: 3/4"=1'-0"

BASE BID AND ALTERNATES NOTE:
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ABBREVIATIONS

THESE ABBREVIATIONS MAY NOT ALL BE USED IN THESE DOCUMENTS. CIVIL, STRUCTURAL, MECHANICAL & ELECTRICAL ARE NOT INCLUDED IN THIS LISTING.

∠ & L	AND ANGLE	F.R.T.	FIRE RETARDANT TREATED	SIM.	SIMILAR
⊙	CENTERLINE	F.S.	FINISH SURFACE	S.M.	SHEET METAL
⊘	DIAMETER	FT.	FOOT OR FEET	SNR	SANITARY NAPKIN RECEPTACLE
#	POUND OR NUMBER	FTG.	FOOTING	SPEC.	SPECIFICATION
ACOUS.	ACOUSTICAL	FUR.	FURING	SQ.	SQUARE
ACOUS. P	ACOUSTICAL PANEL	FUT.	FUTURE	S.S.	STAINLESS STEEL
A.B.	ANCHOR BOLT	GA.	GAUGE	S.S.K.	SERVICE SINK
A.D.	ACCESS DOOR	GALV.	GALVANIZED	S.S.M.H.	STORM SEWER MAN HOLE
ADD.	ADDITIONAL	G.B.	GRAB BAR	STA.	STATION
ADJ.	ADJUSTABLE	GL.	GLASS	STD.	STANDARD
A.F.F.	ABOVE FINISH FLOOR	GND.	GROUND	STL.	STEEL
AGGR.	AGGREGATE	GR.	GRID LINE	STOR.	STORAGE
ALUM.	ALUMINUM	GYP.	GYP. WALL	STRUCT.	STRUCTURAL
ALT.	ALTERNATE	G.Y.P.	GYP. WALL BOARD	SUBFLR.	SUBFLOOR
ADA	AMERICANS WITH DISABILITIES ACT	G.W.B.	G.W. BOARD	SUBSTR.	SUBSTRUCTURE
A.P.	ACCESS PANEL	H.	HIGH	SUSP.	SUSPENDED
APPROX.	APPROXIMATE	H.B.	HOSE BIBB	S.W.	SOUTHWEST
ARCH.	ARCHITECTURAL	H.C.	HOLLOW CORE	S.W.P.	SANITARY WALL PANEL
ASPH.	ASPHALT	H.D.W.E.	H.D.W. METAL	SYM.	SYMMETRICAL
ASSOC.	ASSOCIATED	H.M.	HOLLOW METAL	T.	TACKBOARD
AUX.	AUXILIARY	H.O.R.I.Z.	HORIZONTAL	T.B.	TOWEL BAR
BD.	BOARD	H.R.	HOUR	T.B.H.M.	THERMALLY BROKEN HOLLOW METAL
BLDG.	BUILDING	HGT.	HEIGHT	T.C.	THIS CONTRACT
BLK.	BLOCKING	I.H.M.	INSULATED HOLLOW METAL	TEL.	TELEPHONE
BM.	BENCHMARK	INSUL.	INSULATION	TEMP.	TEMPERED
B.O.	BOTTOM OF	INT.	INTERIOR	TERR.	TERRAZO
BOT.	BOTTOM	JAN.	JANITOR	T.F.	TONGUE & GROOVE
CAB.	CABINET	J.I.	JOINT	T&G	TONGUE & GROOVE
CANT.	CANTILEVER	KIT.	KITCHEN	THERMO.	THERMOSTAT
C.	CATCH BASIN	LAB.	LABORATORY	THK.	THICK
C.B.	CATCH BASIN	LAM.	LAMINATE	T.O.	TOP OF
CEM.	CEMENT	LAV.	LAVATORY	T.O.B.	TOP OF BLOCKING
CER.	CERAMIC	LCKR.	LOCKER	T.O.C.	TOP OF CURB
C.G.	CORNER GUARD	LKR.	LOCKER	T.P.	TOP OF PAVEMENT
C.J.	CONTROL JOINT	LT.	LIGHT	T.T.D.	TOILET TISSUE DISPENSER
CLC.	CEILING	MAT.	MATERIAL	T.T.H.	TOOTHBRUSH & TUMBLER HOLDER
CLR.	CLEAR	MAX.	MAXIMUM	T.S.	TUBE STEEL
C.O.	CLEANOUT	M.B.	MACHINE BOLT	T.V.	TELEVISION
COL.	COLUMN	MECH.	MECHANICAL	T.W.	TOP OF WALL
CONC.	CONCRETE	MEMB.	MEMBRANE	T.W.C.	TEXTILE WALL COVERING
CONN.	CONNECTION	MET.	METAL	TYP.	TYPICAL
CONSTR.	CONSTRUCTION	M.H.	MANHOLE	U.	URINAL
CONT.	CONTINUOUS	MIN.	MINIMUM	UCTR.	UNDERCOUNTER
CORR.	CORRIDOR	MIR.	MIRROR	U.H.	UNIT HEATER
CTR.	CENTER	MISC.	MISCELLANEOUS	UGND.	UNDERGROUND
CTSK.	COUNTERSINK	MUL.	MULLION	UNFIN.	UNFINISHED
CNTR.	COUNTER	N.	NORTH	UNFRIG.	UNDERCOUNTER REFRIGERATOR
CUBH.	CABINET UNIT HEATER	N.I.C.	NOT IN CONTRACT	U.R.	UTILITY
DBL.	DOUBLE	NO.	NUMBER	UTIL.	UTILITY
DET.	DETAIL	NOM.	NOMINAL	U.N.O.	UNLESS NOTED OTHERWISE
D.F.	DRINKING FOUNTAIN	N.T.S.	NOT TO SCALE	V.P.	VENT PIPE
DN.	DOWN	O.A.	OVERALL	V.R.	VAPOR RETARDER
DIA.	DIAMETER	O.C.	ON CENTER	VERT.	VERTICAL
DM.	DIMENSION	O.D.	OUTSIDE DIAMETER	VEST.	VESTIBULE
DISP.	DISPENSER	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED	VCT.	VINYL COMPOSITION TILE
DN.	DOWN	OFF.	OFFICE	VNL.	VINYL
DR.	DOOR	OPNG.	OPENING	VTR.	VENT THROUGH ROOF
DWG.	DRAWING	OPP.	OPPOSITE	V.V.C.	VINYL WALL COVERING
E.	EAST	P.C.C.	PRECAST CONCRETE	W.	WITH
EA.	EACH	PL.	PLATE	W/O	WITHOUT
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	P.LAM.	PLASTIC LAMINATE	W.C.	WATER CLOSET
ELEV.	ELEVATION	PLYWD.	PLYWOOD	W.L.	WIND LOAD
ELEC.	ELECTRICAL	PR.	PAIR	W.F.	WASH FOUNTAIN
EMER.	EMERGENCY	PT.	PAINT	W.W.F.	WELDED WIRE FABRIC
ENCL.	ENCLOSURE	P.T.	PRESERVATIVE TREATED	W.P.	WATERPROOF
E.P.	ELECTRICAL PANEL	PTBD	PARTICLE BOARD	WD.	WOOD
EQ.	EQUAL	P.T.D.	PAPER TOWEL DISPENSER	WDW.	WINDOW
EQUIP.	EQUIPMENT	P.T.D./R	PAPER TOWEL DISPENSER & RECEPTACLE	WLT.	WORK LIMIT
EXIST.	EXISTING	Q.T.	QUARRY TILE	WNSCOT.	WAINSCOT
EXP.	EXPANSION	R.	RISER	WHSE.	WAREHOUSE
EXP. JT.	EXPANSION JOINT	RAD.	RADIUS	WP.	WEATHERPROOF
EXT.	EXTERIOR	RCP	REFLECTED CEILING PLAN	WR.	WASHROOM
F.A.	FIRE ALARM	REF.	REFERENCE	WS.	WEATHERSTRIPPING
F.D.	FLOOR DRAIN	REINF.	REINFORCED	WT.	WEIGHT
FDN.	FOUNDATION	REQ.	REQUIRED		
F.E.	FIRE EXTINGUISHER	R.M.	ROUGH OPENING		
F.E.C.	FIRE EXTINGUISHER CABINET	R.O.	ROUGH OPENING		
F.F.	FINISH FLOOR	S.	SOUTH		
F.G.	FINISH GRADE	S.C.	SOLID CORE		
FIN.	FINISH	SCHED.	SCHEDULE		
FL.	FLOOR	S.D.	SOAP DISPENSER		
FLASH.	FLASHING	SECT.	SECTION		
FLUOR.	FLUORESCENT	S.F.	SQUARE FEET		
F.O.C.	FACE OF CONCRETE	SH.	SHelf		
F.O.F.	FACE OF FINISH	SHR.	SHOWER		
F.O.S.	FACE OF STUD				
FRFG.	FIREPROOFING				

MATERIALS LEGEND

NOT ALL MATERIAL DEPICTED IN DRAWINGS

	ACOUSTICAL TILE
	CERAMIC TILE <i>SHOW PROFILE ONLY</i>
	CONCRETE <i>CAST IN PLACE OR PRECAST</i>
	CONCRETE BLOCK
	EARTH
	GLASS <i>OMIT INDICATION IN THIN MATERIAL</i>
	GYP. BOARD <i>OMIT DOUBLE LINES AT SMALL SCALE</i>
	INSULATION, BATT
	INSULATION, RIGID
	PLYWOOD
	ROCK FILL
	SAND
	WOOD, FINISH
	WOOD, FRAMING <i>THROUGH MEMBER</i>
	WOOD, FRAMING <i>INTERRUPTED MEMBER</i>
	METAL <i>OMIT INDICATION IN THIN MATERIAL</i>
	MORTAR/GROUT

DRAWING SYMBOLS

	COLUMN LINE
	DATUM / WORK POINT
	WALL TYPE
	WINDOW TYPE
	ROOM NUMBER
	REVISION INDICATOR
	DOOR NUMBER
	BUILDING SECTION
	WALL SECTION
	ELEVATIONS (INTERIOR / EXTERIOR)
	DETAIL PLAN
	DETAIL SECTION
	3D DETAIL

CODE INFORMATION

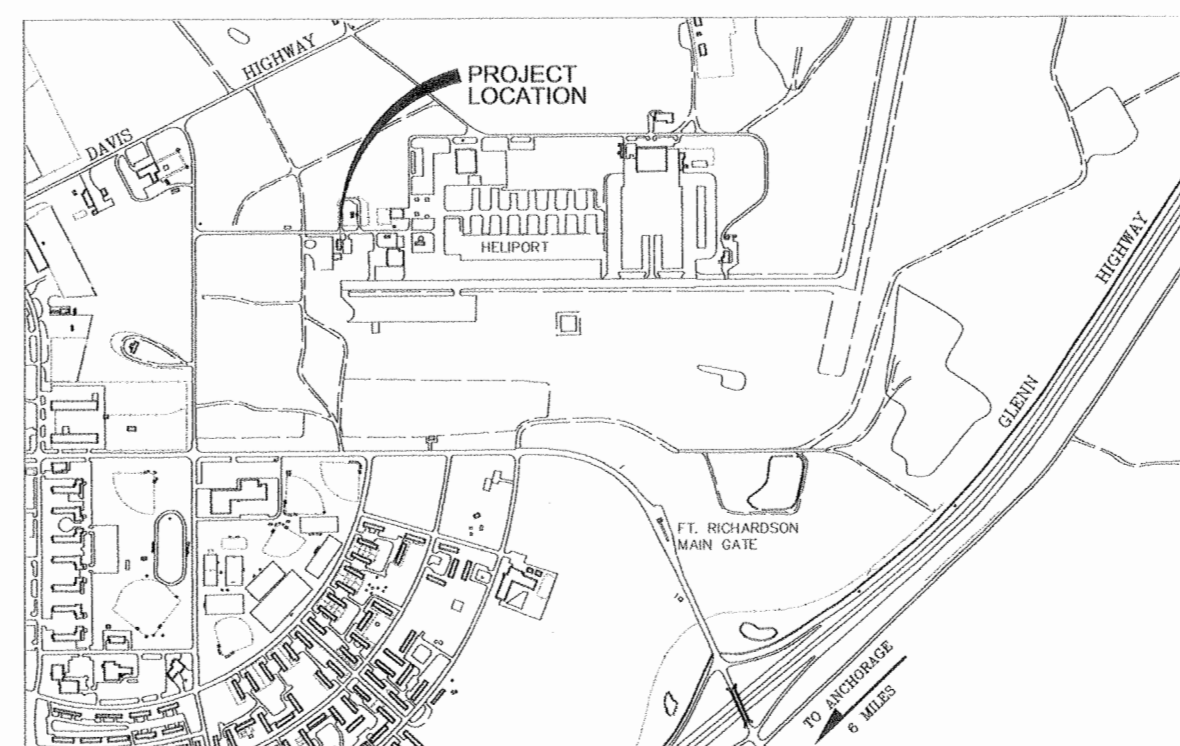
SCHEDULE A

- TYPE OF CONSTRUCTION: TYPE II-B NON-RATED
- CLASSIFICATION OF MAJOR OCCUPANCY: B
- SPACING OF STRUCTURES: (CLEARANCE TO ASSUMED PROP. LINES)
NORTH - 60'-0" (TO C OF EXIST ROAD)
SOUTH - 32'-0" (TO ADJACENT BLDG)
EAST - 51'-0" (TO C OF EXIST PKG LOT)
WEST - 17.5'-0" (TO ASSUMED PROPERTY LINE BETWEEN EXIST AND PROPOSED FACILITY)
- BASIC ALLOWABLE AREA:
ALLOWABLE - 23,000 S.F.
ACTUAL - 4,728 S.F.
- ALLOWABLE BUILDING HEIGHT (PER TABLE 503):
ALLOWABLE HEIGHT - 4 STORIES, 55' MAX.
ACTUAL HEIGHT - 2 STORIES, 23'-8" HIGH.
- OTHER REQUIREMENTS FOR GROUP B OCCUPANCIES: NO SPECIAL REQUIREMENTS.
- FIRE RESISTANT CONSTRUCTION: (TABLE 803.4)
EXIST FACILITY IS CONCRETE/CMU WITH THE FOLLOWING INTERIOR WALL AND CEILING FINISH REQUIREMENTS:
VERTICAL EXITS AND EXIST PASSAGEWAYS: CLASS B (NOTE B)
EXIT ACCESS CORRIDORS AND OTHER EXITWAYS: CLASS B
ROOMS AND ENCLOSED SPACES: CLASS C
- FIRE PROTECTION SYSTEMS:
NOT REQUIRED AS PER 903.2. FIRE EXTINGUISHERS FOR CLASS A HAZARDS WILL BE PROVIDED @ 75' MAX INTERVALS
- HAZARDS OF BUILDING CONTENTS: "ORDINARY" (PER NFPA 101, PAR 4-2.2.3)
- OCCUPANT LOAD DETERMINATION:
TOTAL 48 OCCUPANTS. SEE DESIGN ANALYSIS.
- EXTERIOR FIRE PROTECTION INCLUDES EXIST FIRE HYDRANTS.

SCHEDULE B

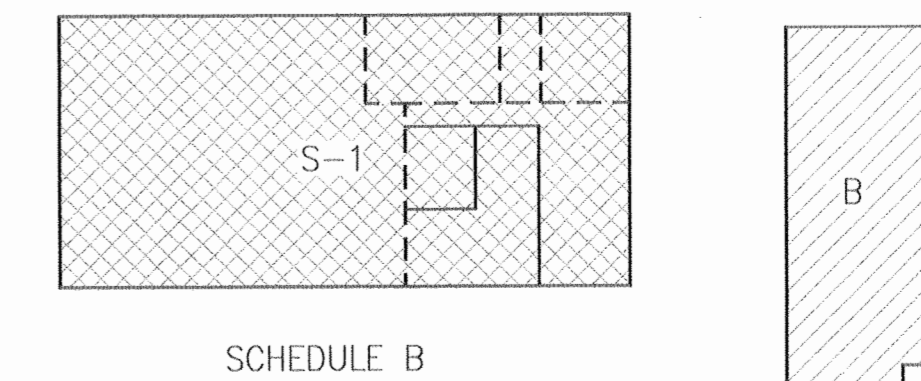
- TYPE OF CONSTRUCTION: TYPE II-B NON-RATED
- CLASSIFICATION OF MAJOR OCCUPANCY: S-1
- OCCUPANCY SEPARATIONS:
HEATING EQUIPMENT ROOM = 1-HOUR
STORAGE ROOM = 1-HOUR
- SPACING OF STRUCTURES: (CLEARANCE TO ASSUMED PROP. LINES)
NORTH - 60'-0" (TO C OF EXIST ROAD)
SOUTH - OPEN SPACE
EAST - 17.5'-0" (TO PROPERTY LINE BETWEEN PROPOSED FACILITY AND EXIST)
WEST - 97'-0" (TO GRAVEL DRIVEWAY)
- BASIC ALLOWABLE AREA:
ALLOWABLE - 26,000 S.F.
ACTUAL - 7,653 S.F.
- ALLOWABLE BUILDING HEIGHT (PER TABLE 503):
ALLOWABLE HEIGHT - 4 STORIES, 55' MAX.
ACTUAL HEIGHT - 1 STORY, 16'± HIGH.
- OTHER REQUIREMENTS FOR GROUP B OCCUPANCIES: SEE SECTION 413 FOR COMBUSTIBLE STORAGE.
- FIRE RESISTANT CONSTRUCTION: (TABLE 803.4)
VERTICAL EXITS AND PASSAGEWAYS: NOT LESS THAN 7 FEET.
EXIT ACCESS WIDTHS FOR CORRIDORS AND OTHER EXITWAYS: NOT LESS THAN 44"
- FIRE PROTECTION SYSTEMS:
NOT REQUIRED AS PER 903.2. FIRE EXTINGUISHERS FOR CLASS A HAZARDS WILL BE PROVIDED BY OWNER @ 75' MAX INTERVALS
- HAZARDS OF BUILDING CONTENTS: "ORDINARY" (PER NFPA 101, PAR 4-2.2.3)
- OCCUPANT LOAD DETERMINATION:
TOTAL 26 OCCUPANTS. SEE DESIGN ANALYSIS.
- EXTERIOR FIRE PROTECTION INCLUDES EXIST FIRE HYDRANTS.

LOCATION / VICINITY MAP



LOCATION MAP SCALE 1" = 1000'

CLASSIFICATION PLAN



- LEGEND
- 1-HOUR WALLS TO UNDERSIDE OF DECK
 - 1-HOUR WALLS TO 6" ABOVE CEILING

GENERAL NOTES

- SEE ENLARGED FLOOR PLANS FOR DETAILED INFORMATION INCL. DOOR NUMBERS, WALL TYPES, ETC. NOT SHOWN ON FLOOR PLAN A1.0.
- ALL DIMENSIONS ARE TO FACE OF STUD, GRID LINE, OR FACE OF CONC. U.N.O.
- WALL TYPES DO NOT INDICATE WAINSCOT, WALL PANELS OR OTHER FINISH MATERIALS. SEE INTERIOR ELEVATIONS, SECTIONS OR FINISH SCHEDULE FOR WALL FINISH MATERIALS.
- FLOOR MATERIAL TRANSITIONS BETWEEN ROOMS ARE TO OCCUR @ CENTERLINE UNDER INTERVENING DOORS (IN A CLOSED POSITION).
- REFERENCE ARCHITECTURAL DATUM TOP OF SLAB (F.F.) = TOP OF FINISHED SLAB, CIVIL DATUM T.O.S. = 339.50.
- ALL FIRE EXTINGUISHER (F.E.) SHOWN SHALL BE SUPPLIED BY THE OWNER AND BE DRY CHEMICAL TYPE.
- OWNER WILL SUPPLY AND INSTALL OWN FLAMMABLE MATERIALS STORAGE CABINETS. CONTRACTOR TO SUPPLY GROUND WIRE CONNECTION.
- ALL GYPSUM BOARD (GYP.) SHALL BE 5/8" TYPE "X" UNLESS OTHERWISE NOTED. PROVIDE MOISTURE RESISTANT IN WET AREAS.
- ALL CORRIDORS SHALL BE 1-HR RATED.



Notes:

USKH

Architecture • Engineering
Land Surveying • Planning
2515 'A' Street Anchorage, Alaska 99503 (907) 276-4245
544 Fourth Avenue Fairbanks, Alaska 99701 (907) 452-2128
3031 Clinton Drive Juneau, Alaska 99801 (907)790-2901
290 North Willow St. Wasilla, Alaska 99654 (907)376-7815

Project:
READY BUILDING ADD/ALT (WMD)
ALASKA ARMY NATIONAL GUARD BRYANT AIRFIELD
FORT RICHARDSON, ALASKA
PROJ No. 020171A

Date	Revision	By

Sheet Contents
LEGENDS, NOTES, ABBREVIATIONS, SYMBOLS AND LOC/VIC MAPS

Project Mgr.	KDM	Sheet No.
Drawn	MAB	T2
Drawn		
Checked	KDM	
Date	30 JAN 03	USKH W.O. 584209

BRYANT AIRFIELD
FORT RICHARDSON, AK

READY BUILDING (WMD)

SCHEDULE A, Office Building
SCHEDULE B, Warehouse

HVAC CONTROLS
SECTIONS 15901, 15941

AS-BUILT DOCUMENTS

DRAWING	DRAWING TITLE
3110-2	EQUIPMENT, DAMPER, VALVE SCHEDULES
3110-3	SCHEDULE A HEATING SYSTEM
3110-4	SCHEDULE A HEATING ZONES
3110-5	SCHEDULE B AHU-1 VENTILATION SYSTEM
3110-6	SCHEDULE B HEATING SYSTEM
3110-7	SCHEDULE B MAKE-UP AIR SYSTEM
3110-8	SCHEDULE B HEATING ZONES
3110-9	PANELS

Sensor Legend	Sensor Probe Legend
Temperature	Duct Insertion Probe
Humidity	Duct Averaging
Enthalpy	Remote Bulb
Diff. Pressure	Outside Air
Absolute Pressure	Fire Stat
Flow Meter	Duct Static Pressure
Velocity	Diff. Pressure
Voltage	Air Averaging Station
Current	Hot Wire Sensor
Elec. Power	Pitot Tube
Level	Pressure Tap
Light	Pipe Well Insertion
Rotation	Pipe Surface Mid.
Smoke	Venturi Flow Meter
Timer	Orifice Plate
Vibration	Turbine Probe
Carbon Monoxide	Annubar
Carbon Dioxide	Paddle Switch
Refrigerant Gas	
Voltage Source	
Resistance Source	
Dry Contact Source	
Potentiometer	

Body Style Legend	Mechanical Legend
Pneu. Actuator	Centrifugal Fan
Actuator & Positioner	Propeller Fan
Elec. Actuator	Vane Axial Fan
Controller	Damper - Opposed
Sensor	Damper - Parallel
	Air Filter
	Air Flow Station
	Humidifier
	Water Htg/Clg Coil
	Heating Coil
	Cooling Coil
	Elec Heating Coil
	2-Way Control Valve
	3-Way Control Valve
	Water Flow Meter
	Water Pump
	Magnetic Starter
	Variable Speed Drive

CONTROLS LEGEND

SystemsHOUSE, Inc			
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READY BUILDING (WMD)		AS-BUILT DOCUMENTS	
BRYANT AIRFIELD		FORT RICHARDSON, ALASKA	
File: ReadyWMD.vsd	Date: 6/14/2004	Sheet: Title	
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EQUIPMENT SCHEDULE

SCH A	SCH B	TAG	MODEL #	DESCRIPTION	MANUF
	4	DS	C7041B1007	Duct Sensor	Honeywell
1	1	HWS	C7041D1003	5" Water Insertion Sensor with Well	Honeywell
1	1	OAT	ST-042	Outside air sensor w/sun shield	Kele
	1	RS	T7770A1006	Room Sensor	Honeywell
13	4	LT	T822D1024	Low Voltage thermostat	Honeywell
4	6	T	T451A3005	Line voltage Thermostat	Honeywell
3		G	TG511B1008	Thermostat Guard	Honeywell
1	3	XL50	XL50UMMIPC	Controller w/LED screen	Honeywell
1	3		XI50ACC3	Door mount kit XL50	Honeywell
1	3	ALM	AIS-24A	Alarm Panel	Kele
	2	DP3	AFS-222	Diff Static pressure Switch	Kele
	1	CO	TP1-M	Carbon Monoxide sensor	Kele
	1	DM1	ML8185A1008	Damper motor 2/pos 24vac SR	Honeywell
	1	DM2	ML8195A1007	Damper motor 2/pos 24vac SR	Honeywell
	2	DM3	ML7295A1006	Damper motor 142 #'' tq, 0-10vdc SR	
	4	VM	ML7425B3012	Valve Motor - 0-10vdc, Fail Up	Honeywell
	1	CV	V5011N1024		Honeywell
	1	CV	V5011N1016		
	1	CV	V5011N1073		
	1	CV	V5011N1065		
14	8	ZV	VT2313 AG13A020	Zone Valve, 1/2" 24v 2POS	Kele
5		NEZV	S15S.75, 304505	Non Electric zone valve w/operator	Honeywell
1	4	TRN1	10011SHCB	120/24vac Transformer, 100va	Intec
	2	FZ	DBTZ-4	Freeze thermostat	Intec
1	1	RIB	RIBUIS	Relay, W/HOA	Func Device
1	3	RxH	RIBX24BA	Relay, W/CT 1HP	Func Device
2	4	RIBX	RIBXLCRA	Field relay w/ct, Starter	Func Device
1	3	PNL	14506635-001	Half Size Rough In Ring	Honeywell
1	3	PNL	14506636-001	Half Size Standard Panel Door	Honeywell
1	3	PNL	14506747-001	Half Size Sub panel	Honeywell
	4	D	RCD46	Dampers, See schedule	Ruskin

CONTROL DAMPER SCHEDULE

DAMPERS - Ruskin										ACTUATORS - Honeywell						
LOCATION	TAG	L	H	TAG	TYPE	MODEL	Torque DMPR torque			QTY	TAG	ACTUATOR	ACTION	SIG	Torque Torque	
							lb-in/ft2	sq. ft.	Req lb-in						lb-in	Dmpr %
AHU-1 OSA	AD-1	24	18	D1	opos	RCD46	5.0	3.0	15.0	1	DM1	ML8185A1008	2POS	24V	50	333%
MAU-1 OSA	AD-2	54	54	D2	opos	RCD46	5.0	20.3	101.3	1	DM2	ML8195A1007	2POS	24V	142	140%
VF,EF-4 OSA	AD-3	30	30	D4	opos	RCD46	5.0	6.3	31.3	1	DM3	ML7295A1006	MOD	0-10vdc	142	454%
VF,EF-4 RA	AD-4	30	16	D3	opos	RCD46	5.0	3.3	16.7	1	DM3	ML7285A1007	MOD	0-10vdc	142	852%

CONTROL VALVE SCHEDULE

QTY	TAG	LOCATION	VALVE #	SIZE	GPM	Cv	PD, psi	DESC	ACT	TYPE	MANUF
1	CV1	AHU1 PHC	V5011N1024	1/2"	2.1	1.85	1.4	2-Way, npt	ML7425B3012	2-10vdc, SR	Honeywell
1	CV2	AHU1 HC	V5011N1016	1/2"	1.5	1.16	1.8	2-Way, npt	ML7425B3012	2-10vdc, SR	Honeywell
1	CV3	MAU1 PHC	V5011N1073	1 1/4	26.3	18.7	2.1	2-Way, npt	ML7425B3012	2-10vdc, SR	Honeywell
1	CV4	MAU1 HC	V5011N1065	1	19.1	11.7	2.8	2-Way, npt	ML7425B3012	2-10vdc, SR	Honeywell
22	ZV	BB	VT2313	3/4"	< 4	3.5	< 3	2-Way, swt	AG13A020	2/POS SR 24V	Honeywell
5	NEZV	BB	S15S.75	3/4"	< 4	3.5	< 3	2-Way, swt	304505	Modulating	Honeywell

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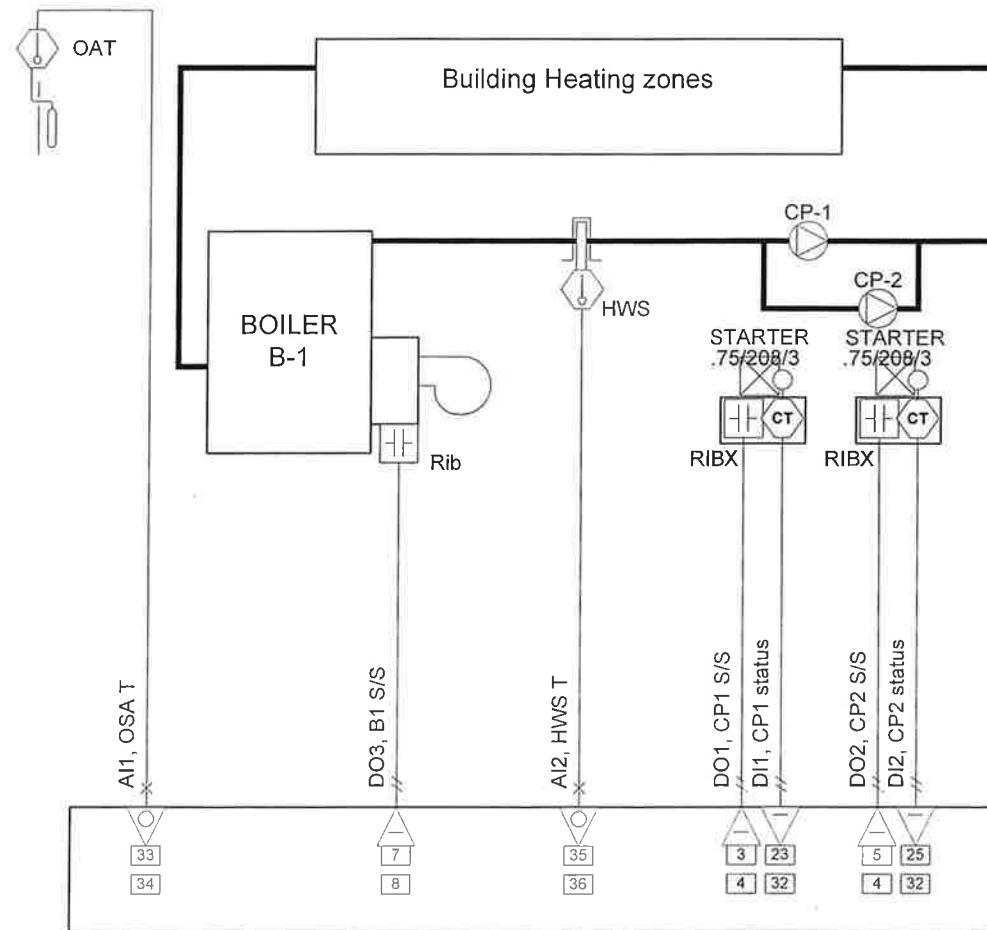
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READY BUILDING (WMD) AS-BUILT DOCUMENTS
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

File: ReadyWMD.vsd Date: 6/14/2004 Sheet: Dmpr Viv Sch

Drawing Number 1-3110- 2 Rev 1

BUILDING HEATING SYSTEM



PRIMARY HEATING-WATER SUPPLY TEMPERATURE CONTROL:

Hot Water Boiler: The hot water boiler is under direct control of the local DDC controller. A remote control relay mounted in the boiler burner control panel allows operators to select the method of control utilizing the relay HOA switch.

Hand position: In the manual mode with the relay in the "H" position, the boiler controls at the temperature set by the local aqua stat.

Auto Position: In the automatic mode with the relay in the "A" position the boiler burner cycles to maintain the automatic calculated temperature set point as set by the reset schedule below. In the automatic mode of operation the boiler will not be enabled to run unless positive status is received by the DDC system that the primary circulating pumps, either CP-1 or CP-2 are on line and circulating. "If the pumps are off the boiler will not run in the automatic mode." There is a minimum time off of 90 seconds to prevent burner short cycling

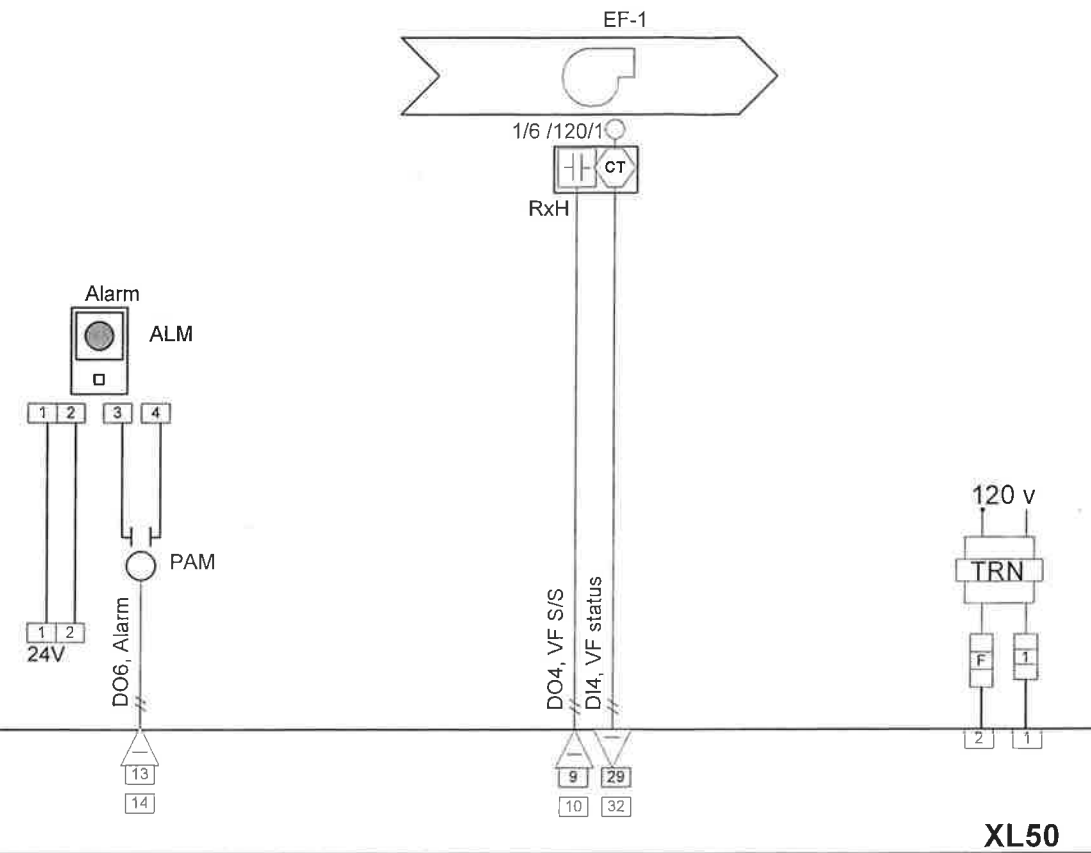
Outside Air Temperature	Hot Water Supply Temperature
-20 degrees	195 degrees
75 degrees	140 degrees

CP-1 and CP-2 (Primary Heating Pumps): CP-1 & CP-2 are controlled utilizing a magnetic starters with a Hand-Off-Auto switch on the cover, located in the boiler room. Pumps will be off when the outside air temperature rises above the heating system enable set point of 75°F (adjustable) with a 5 minute time delay on start. In the Hand position, the pump operates continually. Only one pump will operate at a time. Pumps operate in Primary/Standby operation with pumps switching primary/standby designations once per week. If the Primary pump fails to operate after a delay of one minute, the standby Pump switches to Primary designation. If the either pump fails to run when commanded on, an alarm condition will be initiated and displayed at the local alarm station and at the DDC controller MMI.

ALARM STATION ENABLE POINTS:

1. Boiler hi temperature alarm, SP = 230 degrees w/ 60 sec. delay if pumps are enabled.
2. Boiler low temperature alarm, SP = 130 degrees w/ 60 sec. delay if pumps are enabled
3. CP-1 Pump Fail Alarm, 60 sec. delay
4. CP-2 Pump Fail Alarm, 60 sec delay
5. CP Lead Pump Fail Alarm

TOILET EXHAUST EF-1



Exhaust Fan EF-1 (Toilet Exhaust)

EF-1 Fan Control: EF-1 is under direct control of the DDC system utilizing an independent time schedule to cycle the unit on. EF-1 will operate whenever the time schedule is in the Occupied Mode. EF-1 will remain off when in the Unoccupied mode. In the Hand position, EF-1 will operate continually.

EF-1 Operation Status: A current sensor installed at the exhaust fan will provide positive feed back to the DDC system of fan operation. During normal operation, if the fan fails to run when commanded on, an alarm condition will be initiated and displayed at the alarm station and at the local DDC controller MMI.

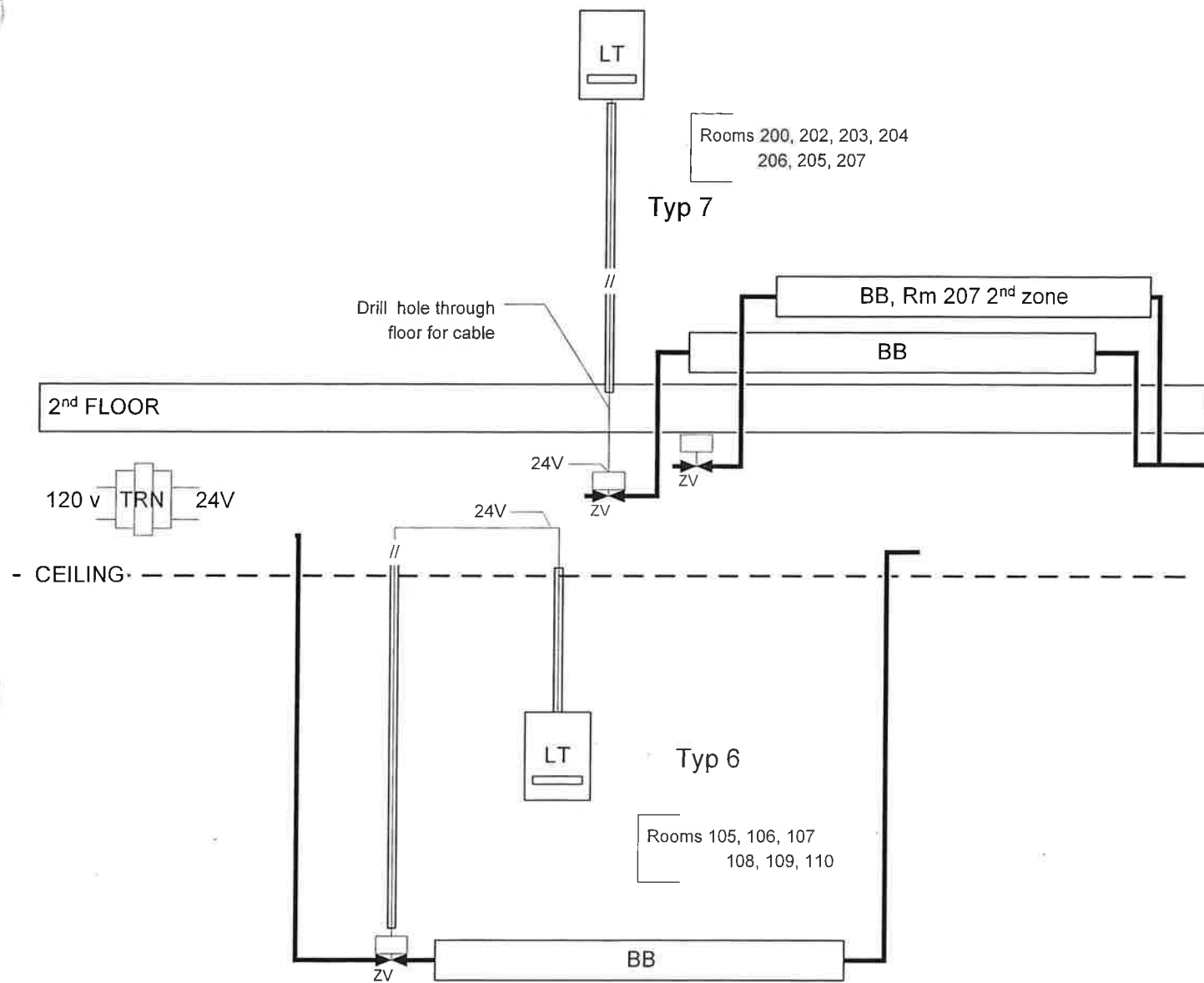
ALARM STATION ENABLE POINTS:

1. EF-1 Fan Fail Alarm w/ 60 sec. time delay

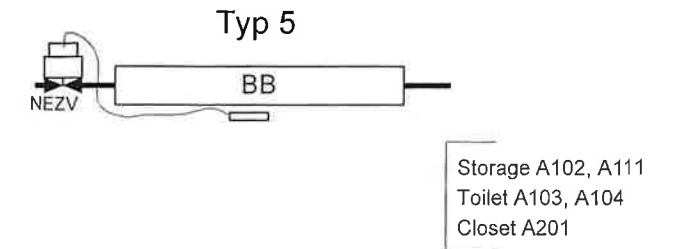
SCHEDULE "A"

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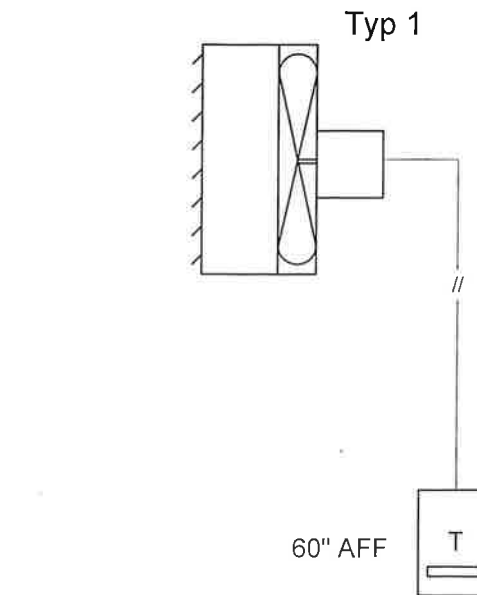
BASEBOARD ZONES BB



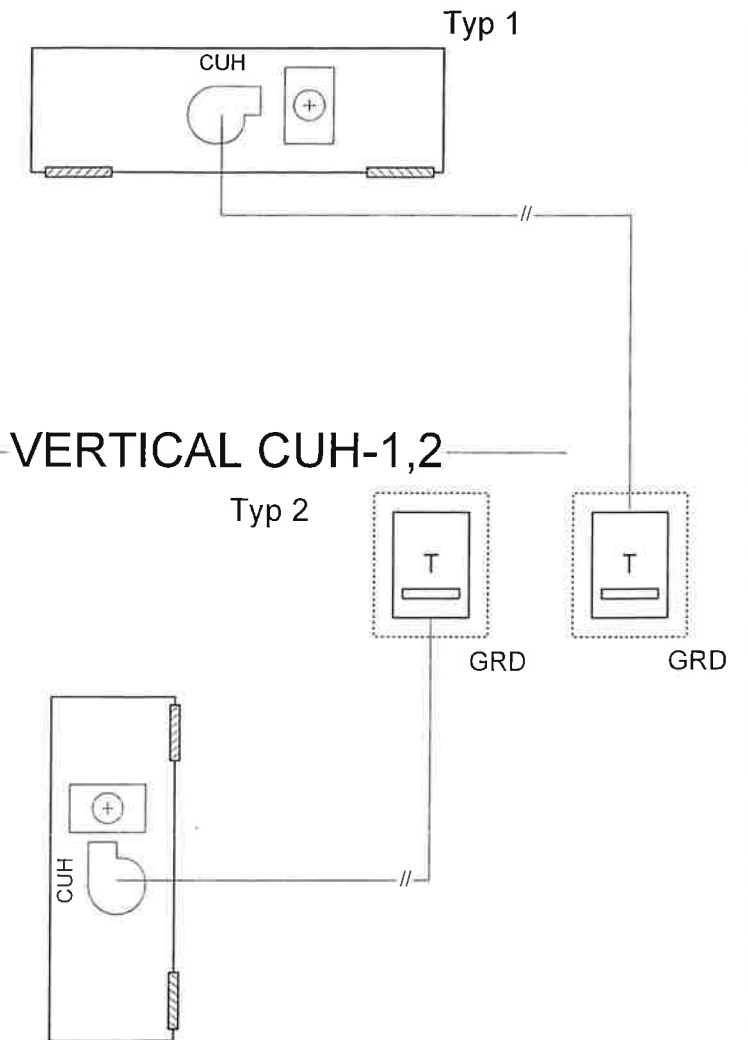
SMALL ROOM ZONES NON ELECTRIC



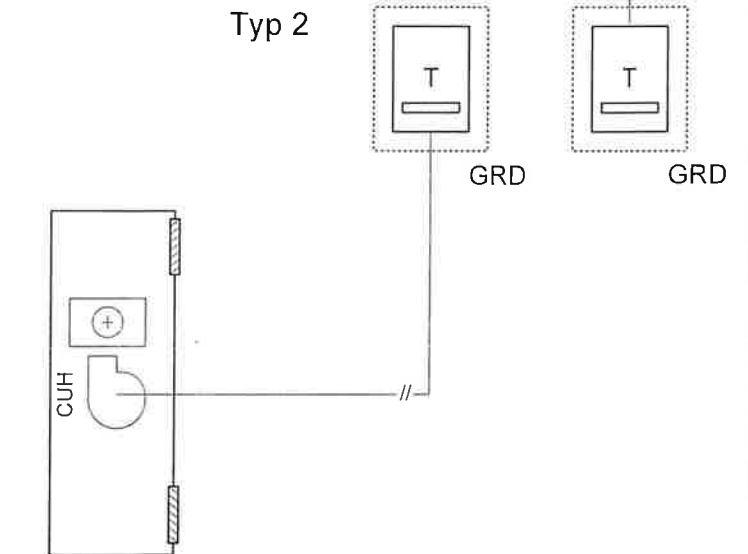
UNIT HEATER



HORIZONTAL CUH-3



VERTICAL CUH-1,2



BASEBOARD HEAT:
Thermostat cycles zone valve to maintain setpoint.

CABINET UNIT HEATER:
Thermostat cycles CUH to maintain setpoint.

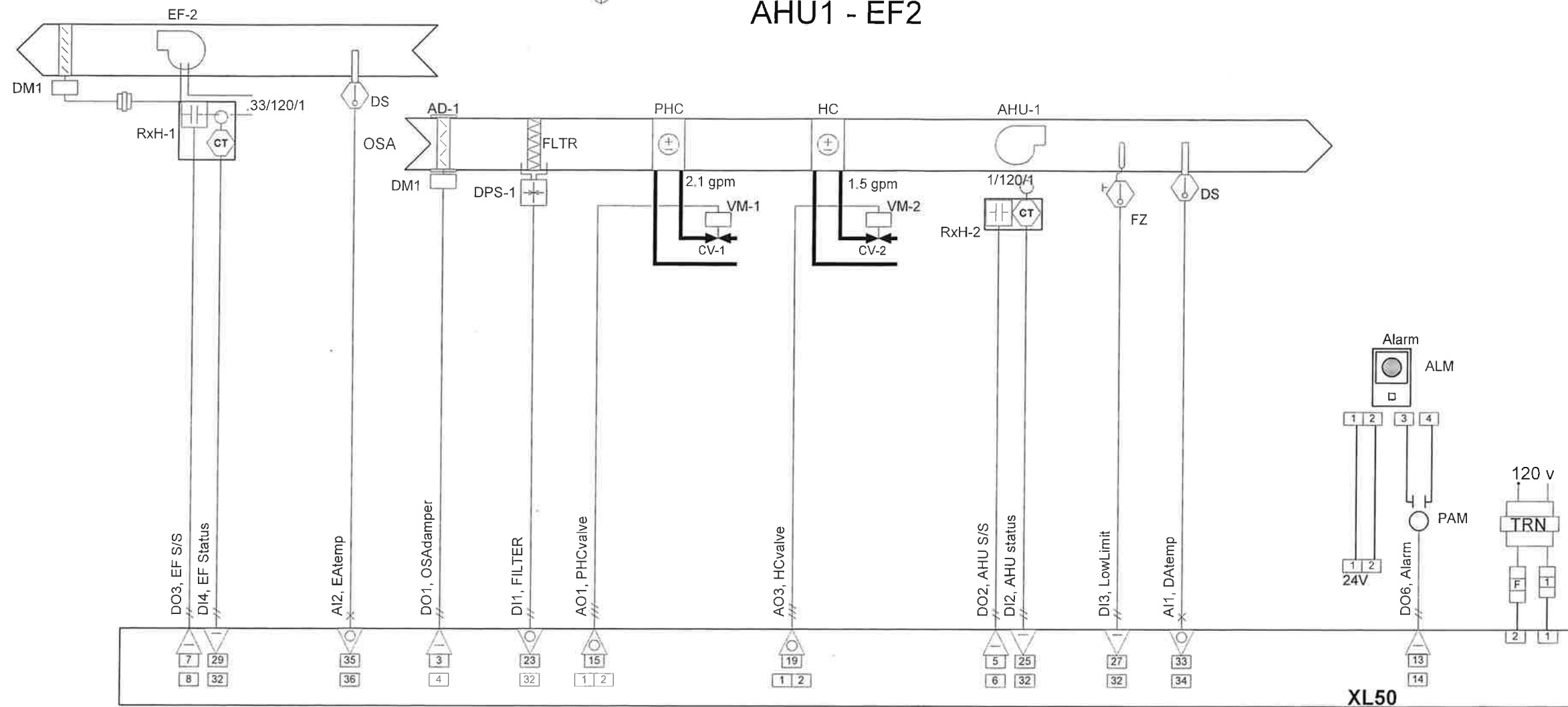
UNIT HEATER:
Thermostat cycles UH to maintain Setpoint

SMALL ZONE BASEBOARD:
Non Electric zone valve cycles valve to maintain setpoint.
Setpoint adjustable on the zone valve controller

SCHEDULE "A"

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AIR HANDLING UNIT AHU1 - EF2



AIR HANDLING UNIT, AHU-1, EXHAUST FAN EF-2

AHU-1 supplies ventilation air to space with EF-2 providing exhaust air from the same space. AHU-1 and EF-2 are under control of Occupied / Unoccupied schedule as set by the DDC system.

Unoccupied Mode: During the unoccupied mode the heating coil and pre-heat coil control valves will be commanded closed by the DDC system.

Occupied Mode: The supply fan AHU-1 and exhaust fan EF-2 are directly controlled by an occupied/unoccupied time schedule utilizing the DDC system and local MMI programming. When AHU-1 is enabled to run by the time schedule, the outside air damper is commanded open. After a 2 minute time delay which enables the outside air intake damper to open fully, the air handling unit will be commanded to run by the DDC system. Once positive status of supply fan operation is received by the DDC system the exhaust fan, EF-2, will be commanded to run.

Discharge Air Temperature Control: When the fan systems are enabled to operate by the DDC system time scheduling and positive status of fan operation has been received the DDC system, the controller will modulate the pre-heat coil valve and heating coil valve in sequence to maintain the calculated supply air temperature set point which is reset from exhaust air temperature following the adjustable reset schedule below.

Exhaust Air Temperature	Discharge Air Temperature
76 degrees	55 degrees
66 degrees	80 degrees

LOW TEMPERATURE ALARM: A duct mounted automatic reset thermostat located down stream of fan will stop the system if the discharge air drops below the locally adjustable set point of 35 degrees. The pre-heat and heating coil valves will be commanded to 100% open and an alarm will be initiated at the DDC controller local MMI and the local alarm annunciator will be enabled producing an audible and visible alarm. Once the low temperature alarm condition has cleared, a minimum time off delay of 10 minutes will commence. After the time delay period has expired, the fan system shall resume normal operation.

FAN FAILURE ALARM: Independent current sensors monitor fan status on AHU-1 and EF-2. If either fan fails to run when commanded on an alarm will be initiated at the DDC controller local MMI and the local alarm annunciator will be enabled producing an audible and visible alarm. If either fan fails, the other associated fan will be commanded off by the DDC system. A time delay of 30 seconds must expire upon a fan failure before the local alarm is initiated, preventing nuisance alarms.

DIRTY FILTER ALARM: A differential filter switch across filters monitors for dirty filters. When the differential pressure across the air filter bank exceeds the local adjustable set point, an alarm will be initiated at the DDC controller local MMI and the local alarm annunciator will be enabled producing an audible and visible alarm.

SCHEDULE "B"

SystemsHOUSE, Inc

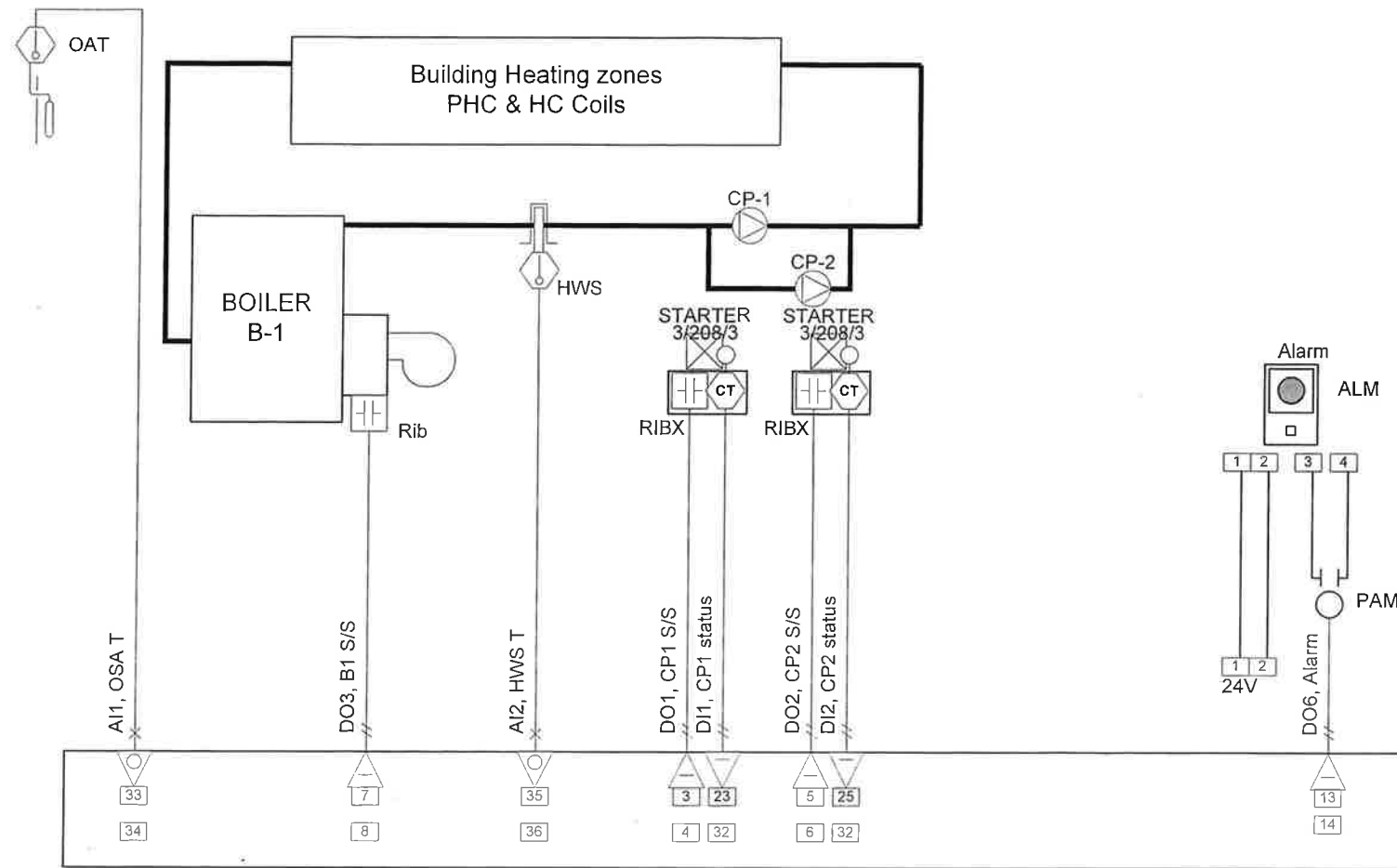
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READY BUILDING (WMD) AS-BUILT DOCUMENTS
BRYANT AIRFIELD
FORT RICHARDSON, ALASKA

File: ReadyWMD.vsd Date: 6/14/2004 Sheet: B-AHU1

Drawing Number 1-3110- 5 Rev 1

BUILDING HEATING SYSTEM



PRIMARY HEATING-WATER SUPPLY TEMPERATURE CONTROL:

Hot Water Boiler: The hot water boiler is under direct control of the local DDC controller. A remote control relay mounted in the boiler burner control panel allows operators to select the method of control utilizing the relay HOA switch.

Hand position: In the manual mode with the relay in the "H" position, the boiler controls at the temperature set by the local aqua stat.

Auto Position: In the automatic mode with the relay in the "A" position the boiler burner cycles to maintain the automatic calculated temperature set point as set by the reset schedule below. In the automatic mode of operation the boiler will not be enabled to run unless positive status is received by the DDC system that the primary circulating pumps, either CP-1 or CP-2 are on line and circulating. "If the pumps are off the boiler will not run in the automatic mode." There is a minimum time off of 90 seconds to prevent burner short cycling

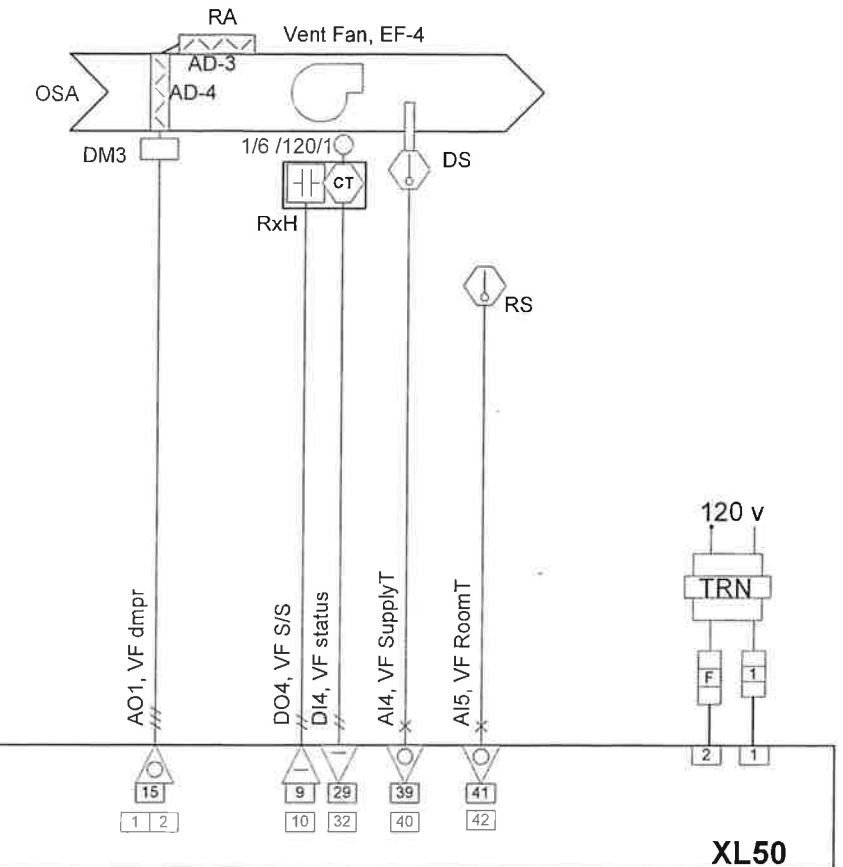
Outside Air Temperature	Hot Water Supply Temperature
-20 degrees	195 degrees
75 degrees	140 degrees

CP-1 and CP-2 (Primary Heating Pumps): CP-1 & CP-2 are controlled utilizing a magnetic starters with a Hand-Off-Auto switch on the cover, located in the boiler room. Pumps will be off when the outside air temperature rises above the heating system enable set point of 75°F (adjustable) with a 5 minute time delay on start. In the Hand position, the pump operates continually. Only one pump will operate at a time. Pumps operate in Primary/Standby operation with pumps switching primary/standby designations once per week. If the Primary pump fails to operate after a delay of one minute, the standby Pump switches to Primary designation. If the either pump fails to run when commanded on, an alarm condition will be initiated and displayed at the local alarm station and at the DDC controller MMI.

ALARM STATION ENABLE POINTS:

1. Boiler hi temperature alarm, SP = 230 degrees w/ 60 sec. delay if pumps are enabled.
2. Boiler low temperature alarm, SP = 130 degrees w/ 60 sec. delay if pumps are enabled
3. CP-1 Pump Fail Alarm, 60 sec. delay
4. CP-2 Pump Fail Alarm, 60 sec delay
5. CP Lead Pump Fail Alarm

VENT FAN EF-4



EF-4 MECHANICAL ROOM VENTILATION:

FAN ENABLE: EF-4 is under direct control of the DDC system with the fan cycling on and off to maintain the room cooling set point of 76 degrees (adjustable) with a 2 degree differential.

DISCHARGE AIR TEMPERATURE CONTROL: When positive fan status is received by the DDC system the mixed air dampers will modulate to maintain a discharge air set point of 50 degrees (adjustable). If outside air temperature is greater than room temperature with a 2 degree differential the fan will be locked out.

FAN STATUS: Fan is monitored by CT for run status. If fan fails when commanded on, alarm sounds. Dampers return to normal off position.

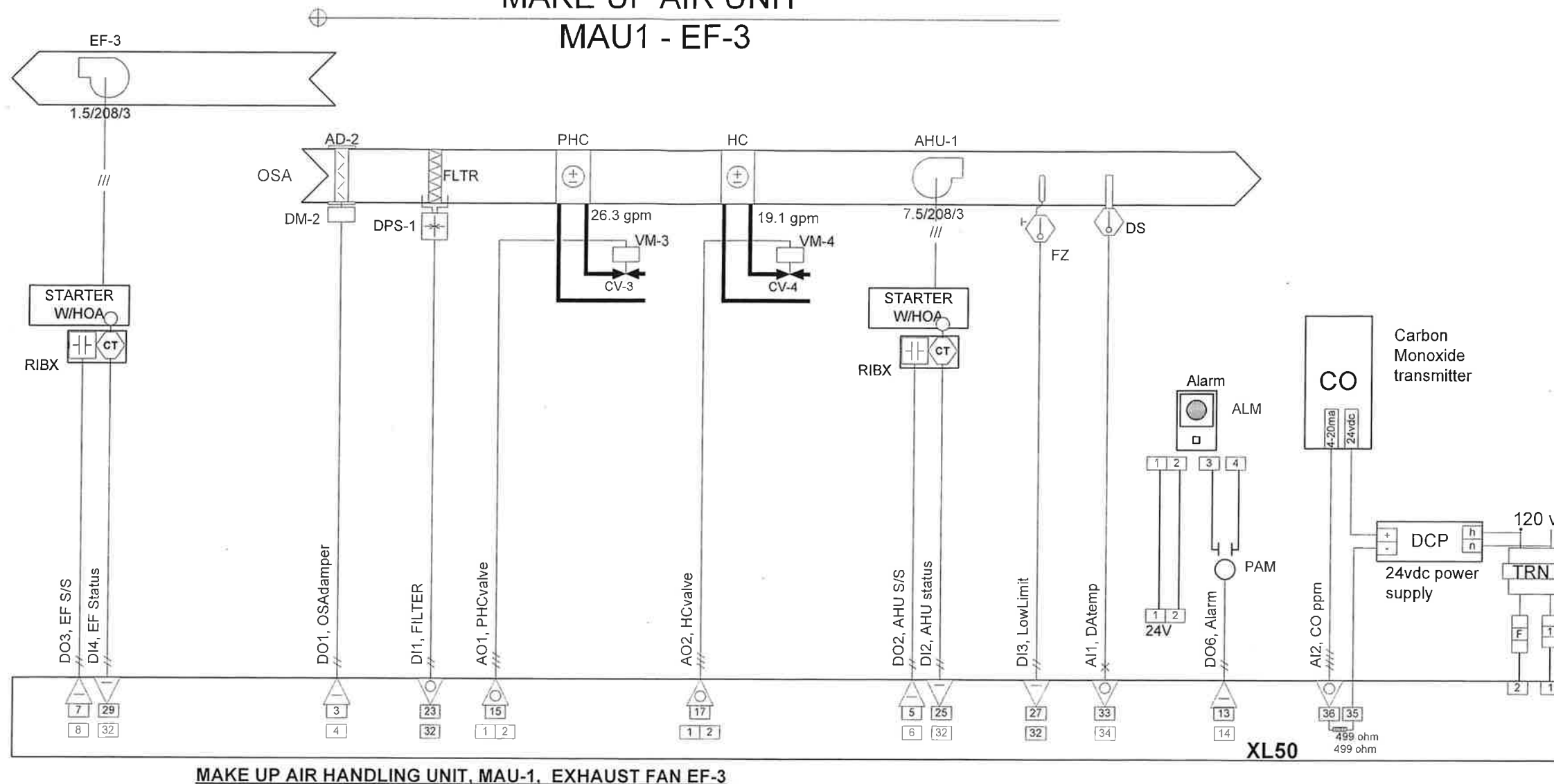
ALARM STATION ENABLE POINTS:

1. EF-4 Fan Fail Alarm w/ 60 sec. time delay
2. EF-4 Low Room Temperature Alarm, SP = 50 degrees with 2 degree differential
3. EF-4 Hi Room Temperature Alarm, SP = 90 degrees with 2 degree differential

SCHEDULE "B"

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MAKE UP AIR UNIT MAU1 - EF-3



MAU-1 supplies ventilation air to space with EF-3 providing exhaust air from the same space. MAU-1 and EF-3 are under direct control of the DDC system. MAU-1 is software interlocked with EF-3.

Off Mode: During the "OFF" mode of operation the heating coil and pre-heat coil control valves on MAU-1 will be commanded closed by the DDC system.

EF-3 Enable Mode: Whenever the CO level in the space exceeds the hi limit set point of 25ppm (adjustable) the exhaust fan will be commanded on. The fan will be shut off when the CO level drops below the CO set point differential of 5ppm (adjustable). EF-3 will not run if the DDC system receives a fan failure alarm from MAU-1.

MAU-1 Enable Mode: The supply fan MAU-1 will be enable to run whenever positive status is received by the DDC system that exhaust fan EF-3 status it true. When MAU-1 is enabled to run the outside air damper is commanded open. After a 2 minute time delay which enables the outside air intake damper to open fully, the air handling unit will be commanded to run by the DDC system. There is no "HAND" enable on this unit as the fan cannot be operated manually. To manually run the system, EF-3 HOA can be placed in the "HAND" position and initiate the automated sequence.

Discharge Air Temperature Control: When the fan systems are enabled to operate by the DDC system and positive status of fan operation has been received, the controller will modulate the pre-heat coil valve and heating coil valve in sequence to maintain the supply air temperature set point of 65 degrees (adjustable).

LOW TEMPERATURE ALARM: A duct mounted automatic reset thermostat located down stream of fan will stop the system if the discharge air drops below the locally adjustable set point of 35 degrees. The pre-heat and heating coil valves will be commanded to 100% open and an alarm will be initiated at the DDC controller local MMI and the local alarm annunciate will be enabled producing an audible and visible alarm. Once the low temperature alarm condition has cleared, a minimum time off delay of 10 minutes will commence. After the time delay period has expired, the fan system shall resume normal operation.

FAN FAILURE ALARM: Independent current sensors monitor fan status on MAU-1 and EF-3. If either fan fails to run when commanded on an alarm will be initiated at the DDC controller local MMI and the local alarm annunciate will be enabled producing an audible and visible alarm. If either fan fails, the other associated fan will be commanded off by the DDC system. A time delay of 30 seconds must expire upon a fan failure before the local alarm is initiated, preventing nuisance alarms.

DIRTY FILTER ALARM: A differential filter switch across filters monitors for dirty filters. When the differential pressure across the air filter bank exceeds the local adjustable set point, an alarm will be initiated at the DDC controller local MMI and the local alarm enunciator will be enabled producing an audible and visible alarm.

CO ALARM: When the space CO level exceeds the local adjustable set point of 25ppm (adjustable), an alarm will be initiated at the DDC controller local MMI and the local alarm enunciator will be enabled producing an audible and visible alarm.

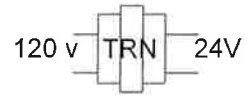
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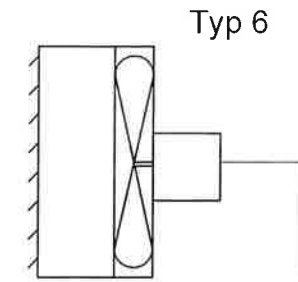
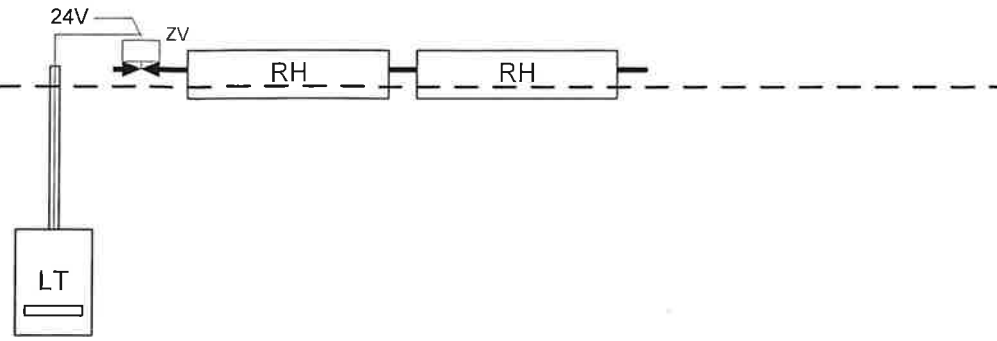
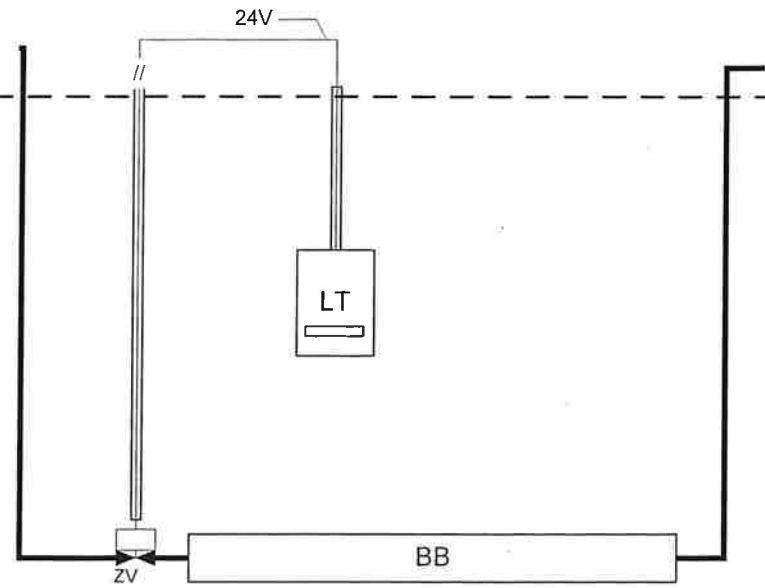
**BASEBOARD ZONES
ROOM B103**

**RADIANT HEAT ZONES
ROOM B106**

UNIT HEATER



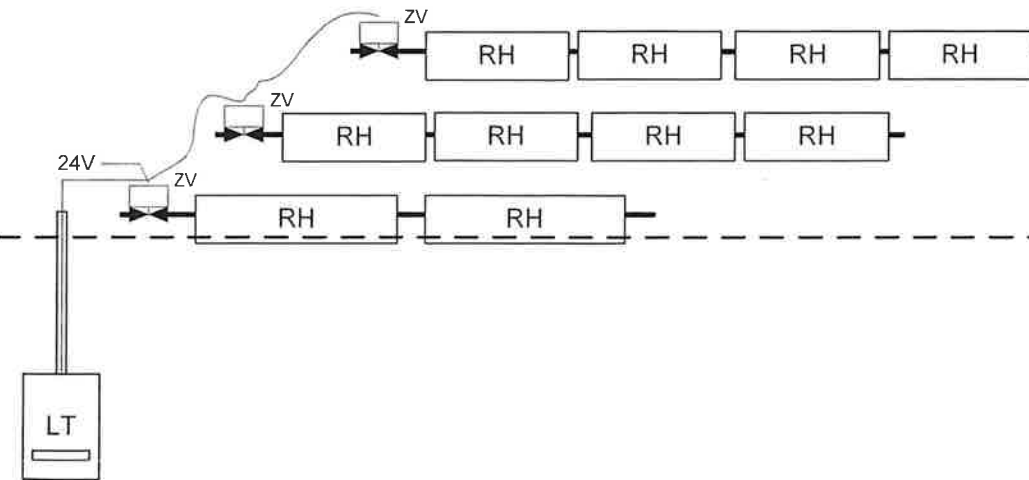
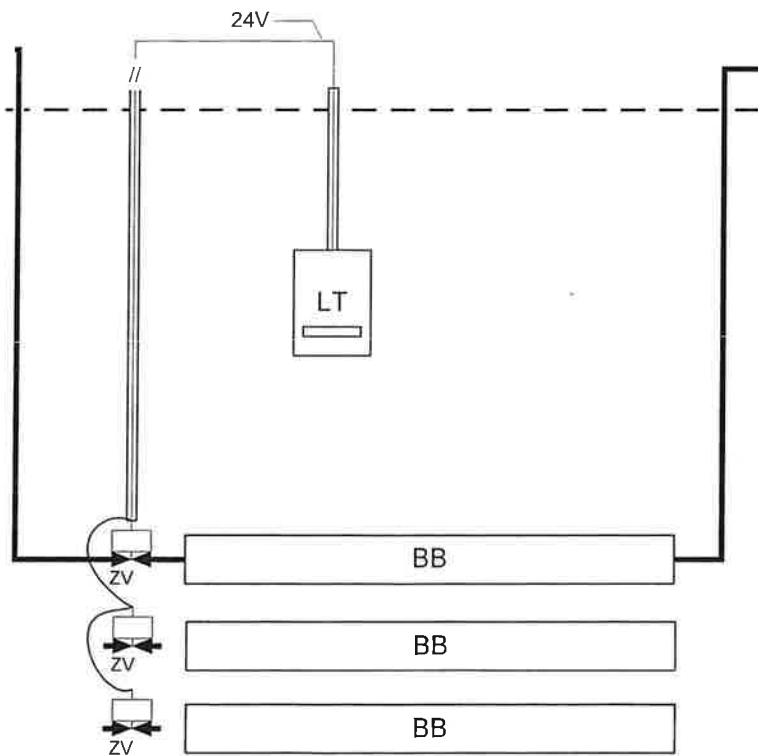
- CEILING -



**BASEBOARD ZONES
ROOM B 102**

**RADIANT HEAT ZONES
ROOM B104**

- CEILING -



BASEBOARD HEAT:
Thermostat cycles zone valve to maintain setpoint.

RADIANT HEAT:
Thermostat cycles zone valve to maintain setpoint.

UNIT HEATER:
Thermostat cycles UH to maintain Setpoint

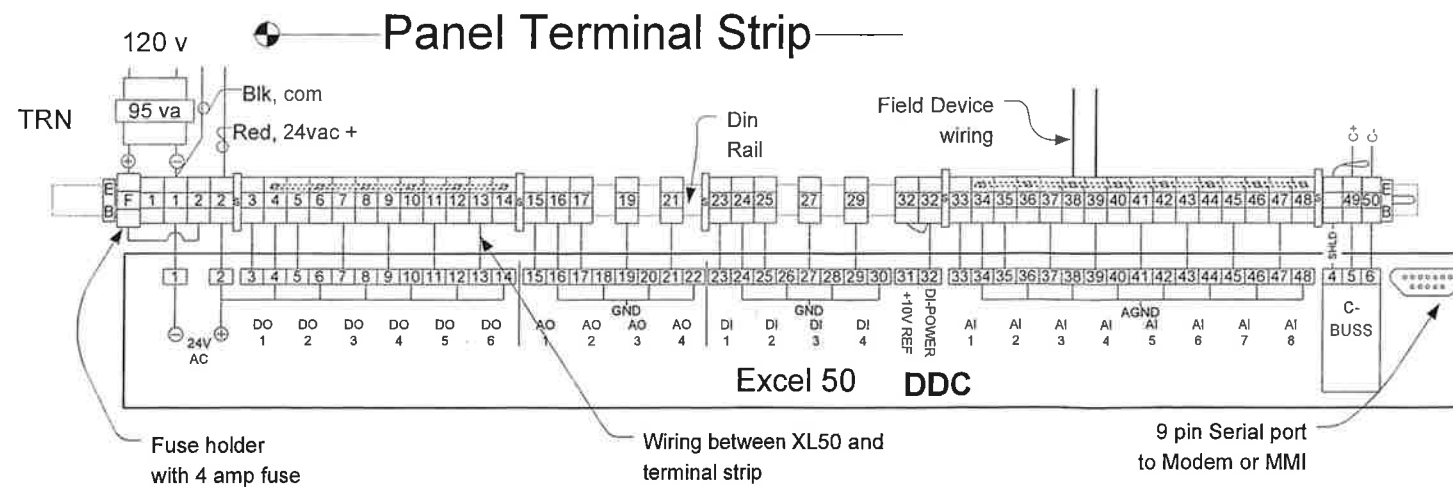
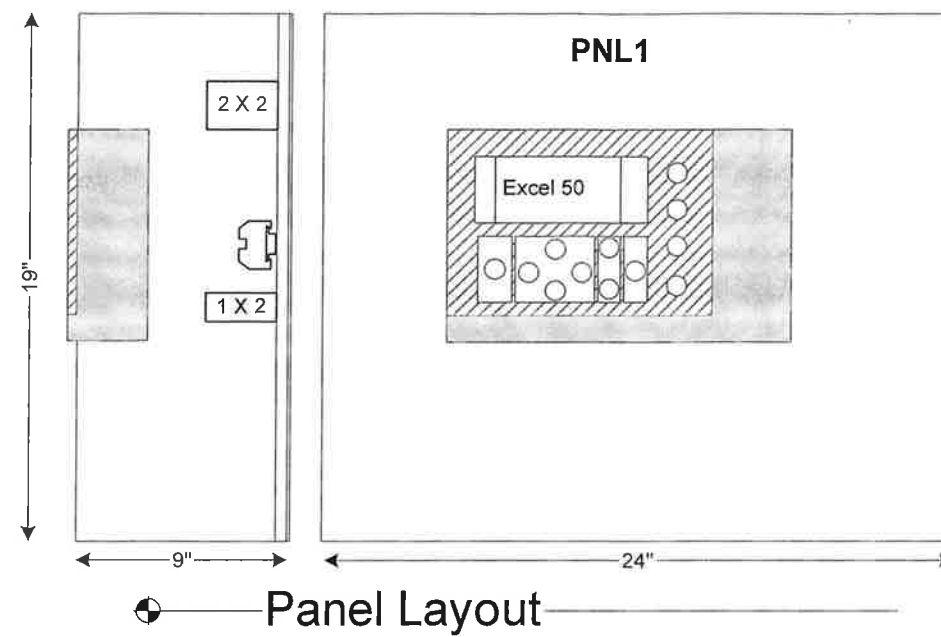
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Note: 24vac power wiring
 24vac = red
 24v com = black

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