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ADDENDUM #1

Project # 13-0184 **Date:** May 6, 2015
Project: Department of Veterans Affairs **A/E Firm:** C2AE
 Saginaw, Michigan
 Aleda E. Lutz Medical Center **Project Manager:** Kelly Jo Homic
 SPS & Logistics Storage Area Renovation

Owner: Department of Veterans Affairs
 VA Medical Center CSC Michigan (90C)
 1500 Weiss Street
 Saginaw, Michigan 48602

The following changes, revisions, modifications, etc. shall be incorporated into the contract documents, specifications, and plans.

SPECIFICATIONS

A1.1 Refer to Table Of Contents

Remove section 23 22 23 Steam Condensate Pumps 02-10 from the table of contents.

A1.2 Refer to Section 018111 – Sustainable Design Requirements (not reissued), paragraph 1.5.A.19

Revise entire paragraph to read:

Gypsum Wall Board: Provide manufacturer’s cut sheets or product data verifying the moisture and mold-resistant properties of the gypsum wallboard products as specified.

A1.3 Refer to Section 087100 – Door Hardware (not reissued), Hardware Schedule

ADD the following door hardware set:

Set: 13

Doors: 1-B363.1

6	Hinge	A8112 4-1/2" x 4-1/2"	652
1	Storeroom Lock	ANSI F07	626
1	Mortise Cylinder	FINAL CORE BY OWNER	626
1	Set Manual Flush Bolts	L04251	626
2	Door Closer	CO2061	689
1	Coordinator	TYPE 21A	
2	Armor Plate	J101 - 34" x 2" LDW x B3E	630
1	Astragal		

A1.4 Refer to Section 237300 – Indoor Central Station Air Handling Units (not reissued), paragraph 2.1.3

ADD the following sentence to the end of paragraph 2.1.A.3:

“Shipping sections shall be no larger than 3’-9” to accommodate the sections fitting through the mechanical room door.”

DRAWINGS

A1.5 Refer to Sheet AD-100 (reissued):

- REVISE Demo Plan to include demolition of existing door into Mechanical Room B363 as shown

A1.6 Refer to Sheet A-100 (reissued):

- REVISE Floor Plan to include new pair of doors into Mechanical Room B363 as shown.

A1.7 Refer to Sheet A-600 (reissued):

- ADD door 1-B363.1 to Door and Frame Schedule

A1.8 Refer to Sheet PD-100 (reissued):

- REVISE Keynote 3 to read, "Contractor shall remove existing sanitary riser to just below first floor."
- ADD Keynote 9 to read, "Contractor shall remove existing storm riser to just below first floor."

A1.9 Refer to Sheet P-100 (reissued):

- ADD Keynote 12 to read, "Connect new storm riser to existing storm riser in basement ceiling space."
- ADD Keynote 13 to read, "Connect new sanitary riser to existing sanitary riser in basement ceiling space."

A1.10 Refer to Sheet M-500, Detail 1 (reissued):

- ADD the following note: "Note: Unit shall be shipped in splits where the shipping sections can fit through a 3'-10" opening."

A1.11 Refer to Sheet ES-110 (reissued):

- REVISE Basement Special Systems Plan to show locations of Access Control Door Controller boxes mounted above ceiling.
- ADD Special Systems Keynote 12 as shown on drawing.
- ADD Note 4 to both Detail 2 and Detail 4 as shown on drawing.
- REVISE Detail 3 as shown on drawing.

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

SYMBOL LEGEND:

1-B101.1	DENOTES NEW DOOR NUMBER. REFER TO SHEET A-600 FOR DOOR SCHEDULE & DOOR TYPE INFORMATION.
A1	DENOTES WALL TYPE NUMBER. REFER TO SHEET G-500 FOR WALL TYPE DESCRIPTIONS.

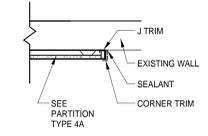
- GENERAL NOTES**
- ALL COMMUNICATIONS WITH THE ARCHITECT/ENGINEER ARE TO GO THROUGH THE VA AND THE COR. THE CONTRACTOR IS NOT TO DIRECTLY CONTACT THE ARCHITECT/ENGINEER WITHOUT THE VA'S AND COR'S KNOWLEDGE OR APPROVAL. ANY NOTES CONTAINED IN THESE DOCUMENTS THAT REFER TO VERIFICATION OR COMMUNICATION WITH ARCHITECT/ENGINEER ARE TO FOLLOW THE AFOREMENTIONED PROTOCOL.
 - CONTRACTORS ARE TO COORDINATE WORK WITH ALL OTHER TRADES. CONFLICTS BETWEEN NOTES, DETAILS, SPECIFICATIONS, ETC. SHALL BE VERIFIED WITH THE ARCHITECT/ENGINEER OR THE STRICTEST PROVISIONS SHALL GOVERN.
 - DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. ANY UNCLEAR CONDITIONS SHALL BE VERIFIED WITH ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION OF THAT AREA.
 - DRAWINGS ARE NOT TO BE SCALED. ANY UNCLEAR DIMENSIONS OR DIMENSIONAL DISCREPANCIES SHALL BE VERIFIED WITH ARCHITECT. ALL EXISTING CONDITIONS AND ALL RELATED DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION. ANY CONDITIONS THAT DIFFER FROM THAT INDICATED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION.
 - GENERAL CONTRACTOR (GC) TO REVIEW ENTIRE SET OF CONSTRUCTION DOCUMENTS (DRAWINGS & SPECIFICATIONS) AND SHALL COORDINATE WORK BETWEEN ALL TRADES. IF CONFLICTS ARISE DUE TO COORDINATION OF TRADES, GC IS TO VERIFY CONFLICT WITH ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION / INSTALLATION OF CONFLICTING ITEMS.
 - REMODELING OR PATCHING SHALL BE EXECUTED IN CONJUNCTION WITH THE NEW WORK AND THE DEMOLITION WORK IN THE DRAWINGS. (SEE DEMOLITION GENERAL NOTES.)
 - ALL DIMENSIONS ARE FROM FACE OF STUD, C.M.U., OR CONCRETE TO FACE OF STUD, C.M.U. OR CONCRETE. U.N.O. COORDINATE LOCATION OF ALL RECESSED OR IMBEDDED ITEMS SO AS NOT TO INTERFERE WITH OTHER TRADES WORK.
 - MAINTAIN WALL FIRE RATING BEHIND RECESSED ACCESSORIES & EQUIPMENT.
 - ADDITIONS OF OPENINGS, PENETRATIONS OR EMBEDMENTS IN THE FIELD SHALL BE FIRST VERIFIED WITH ARCHITECT/ENGINEER. PROVIDE NEOPRENE OR VINYL ISOLATION MATERIAL BETWEEN DISSIMILAR METALS THAT ARE IN CONTACT WITH ONE ANOTHER, TYPICAL.
 - PATCH & REPAIR ALL MAJOR & MINOR BLEMISHES AS REQ'D. DUE TO DEMOLITION WORK. MATCH ADJACENT MATERIAL & COLOR.
 - PROVIDE SOLID, CONTINUOUS BLOCKING IN WALL AT ALL LOCATIONS WHERE ALL MILLWORK, PLUMBING FIXTURES, EQUIP., ETC. ATTACH TO WALL.
 - WHERE DRYWALL ABUTS DISSIMILAR MATERIALS, USE METAL DRYWALL EDGE BEAD AND SEALANT WITH BACKER ROD.
 - ALL HEADERS ABOVE OPENINGS, DOORS & BORROWED LITES NON-LOAD BEARING INTERIOR METAL STUD WALLS SHALL BE (2) 8" 18 GA. JOISTS (UNLESS OTHERWISE NOTED).
 - PAINT ALL EXPOSED LINTELS (TYP.)
 - WHERE RECESSED EQUIPMENT IS INSTALLED IN UNEVEN SURFACED MATERIAL USE SMOOTH SURFACED MATERIAL ABOUT PERIMETER SO THAT EQUIPMENT LAYS FLUSH AND EVEN. COORDINATE WITH EQUIPMENT MANUFACTURER.
 - ALL BLOCKING SHALL BE FIRE RETARDANT TREATED WOOD OR MADE OF NON-COMBUSTIBLE MATERIAL.

ALTERNATES

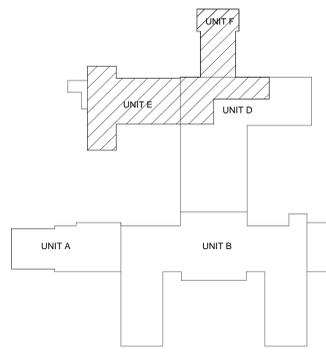
THE FOLLOWING ALTERNATES ARE INCLUDED ON THIS SHEET

- DEDUCTIVE ALTERNATE NO. 3 - STAINLESS STEEL CASEWORK AND SINK
- DEDUCTIVE ALTERNATE NO. 4 - LAMINATE-GLAD CASEWORK, SOLID SURFACE COUNTERTOPS AND PHEVIC LOCKERS
- DEDUCTIVE ALTERNATE NO. 6 - INTERIOR FINISHES

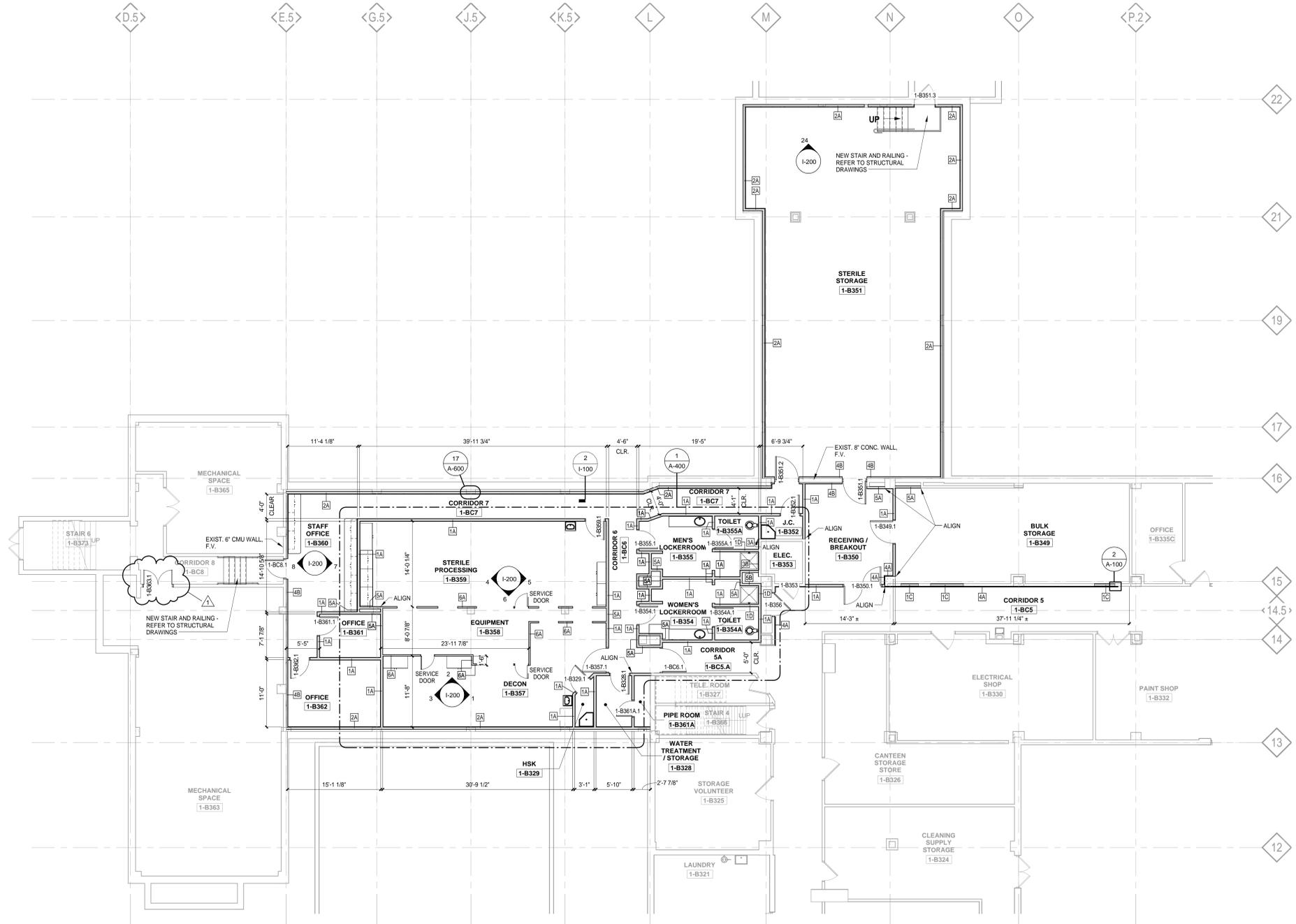
REFER TO SHEET G-001 AND SPECIFICATIONS FOR MORE INFORMATION



2 WALL EDGE DETAIL
1" = 1'-0"



KEY PLAN



BASEMENT FLOOR PLAN
1/8" = 1'-0"

1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:

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 Aleda E Lutz Medical Center
 1500 Weiss Street
 Saginaw, MI 48602

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File Name	Approved: Division Chief
File Location	Approved: Service Director

Drawing Title		Project Title		Date	
BASEMENT FLOOR PLAN		SPS & LOGISTICS STORAGE AREA RENOVATION		12-8-2014	
Approved: Division Chief		Building Number	Checked	Drawn	Project Number
Approved: Service Director		1	KJH	AHR	655-13-103
		Location	Drawing Number		
		1500 WEISS ST. SAGINAW, MI 48602	A-100		

Office of Facilities Management	
Department of Veterans Affairs	

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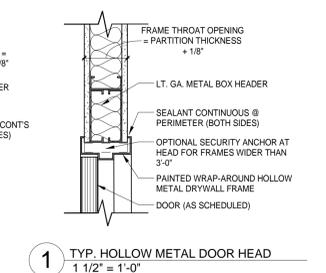
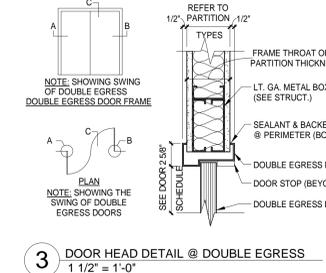
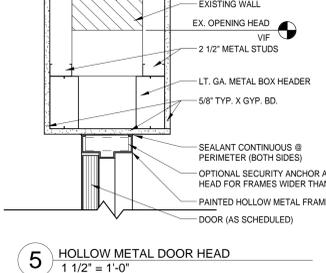
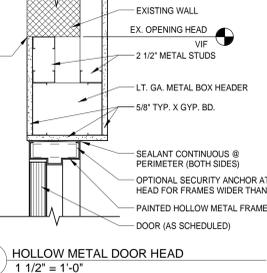
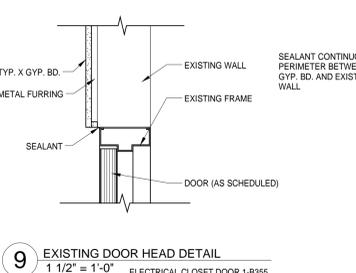
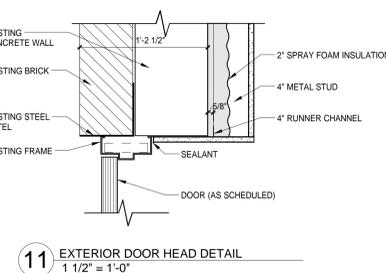
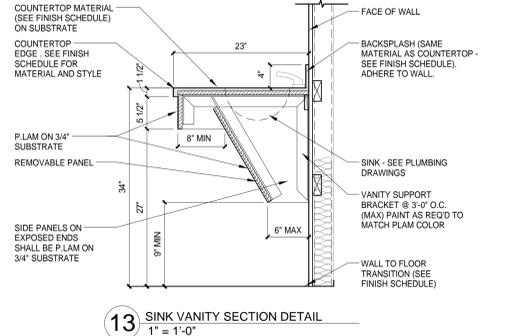
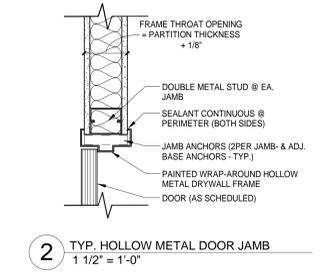
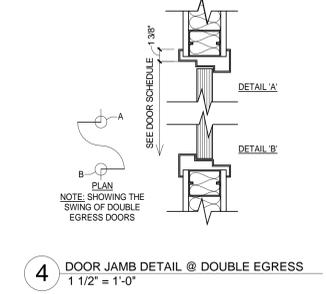
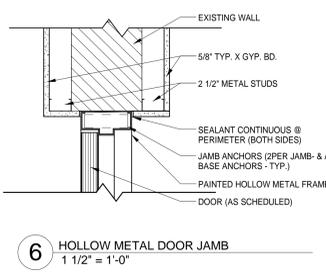
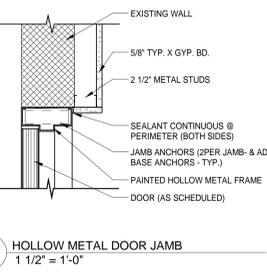
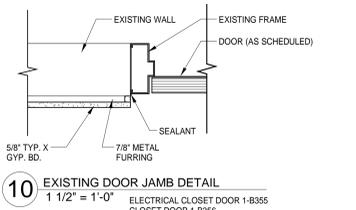
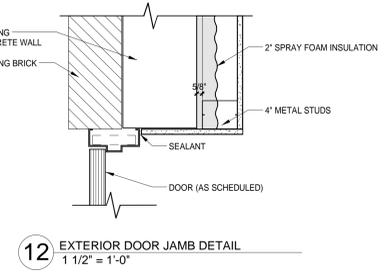
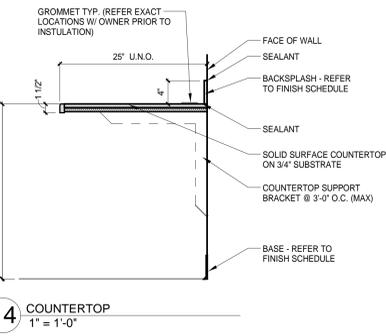
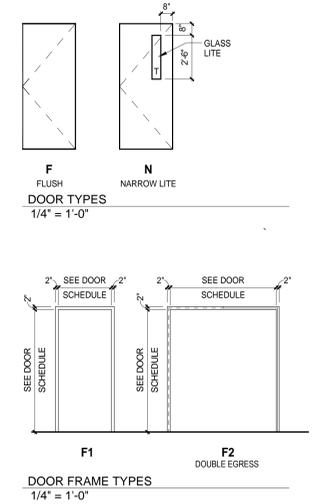
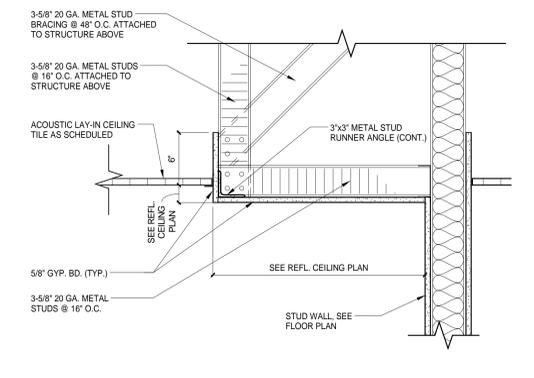
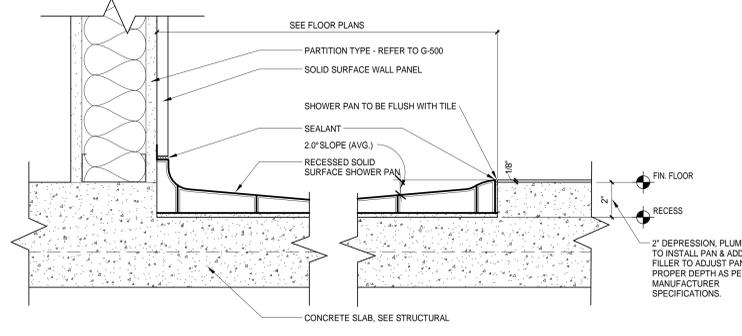
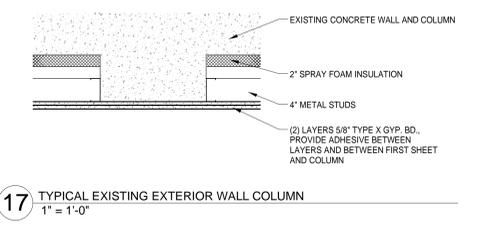
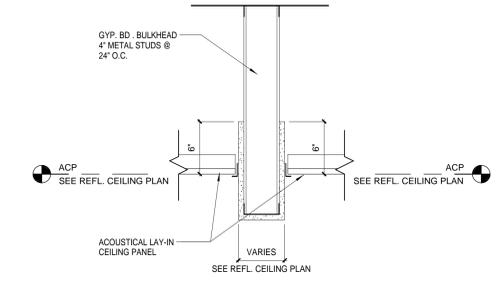
ROOM NO.	ROOM NAME	DOOR AND FRAME SCHEDULE										NOTES
		DOOR NO.	SIZE		MATL	TYPE	FRAME				HARDWARE SET NO.	
			WD	HGT			TYPE	HEAD	JAMB	DETAIL		
1-B328	WATER TREATMENT / STORAGE	1-B328.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	1	ALT #6 - HM DOOR IN LIEU OF SCW
1-B329	HSK	1-B329.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	2	ALT #6 - HM DOOR IN LIEU OF SCW
1-B349	BULK STORAGE	1-B349.1	3'-8"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	3	ALT #6 - HM DOOR IN LIEU OF SCW
1-B350	RECEIVING / BREAKOUT	1-B350.1	6'-0"	7'-0"	SCW	F	H.M.	F2	3/1-A600	4/1-A600	4	ALT #6 - HM DOOR IN LIEU OF SCW
1-B351	STERILE STORAGE	1-B351.1	3'-8"	7'-0"	SCW	N	H.M.	F1	5/1-A600	6/1-A600	12	ALT #6 - HM DOOR IN LIEU OF SCW
1-B351	STERILE STORAGE	1-B351.2	3'-8"	7'-0"	SCW	N	H.M.	F1	5/1-A600	6/1-A600	12	ALT #6 - HM DOOR IN LIEU OF SCW
1-B351	STERILE STORAGE	1-B351.3	3'-0"	7'-0"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING TO REMAIN
1-B352	J.C.	1-B352.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	2	ALT #6 - HM DOOR IN LIEU OF SCW
1-B353	ELEC.	1-B353.1	3'-0"	7'-0"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING TO REMAIN
1-B354	WOMEN'S LOCKERROOM	1-B354.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	5	ALT #6 - HM DOOR IN LIEU OF SCW
1-B354A	TOILET	1-B354A.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	6	ALT #6 - HM DOOR IN LIEU OF SCW
1-B355	MEN'S LOCKERROOM	1-B355.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	5	ALT #6 - HM DOOR IN LIEU OF SCW
1-B355A	TOILET	1-B355A.1	3'-0"	7'-0"	SCW	F	H.M.	F1	1/1-A600	2/1-A600	6	ALT #6 - HM DOOR IN LIEU OF SCW
1-B356	CLOSET	1-B356.1	3'-8"	7'-0"	SCW	F	EXIST.	EXIST.	9/1-A600	10/1-A600	8	EXISTING FRAME TO REMAIN - PATCH AND REPAIR EXISTING HARDWARE MOUNTING HOLES REPAINT FRAME
1-B357	DECON	1-B357.1	3'-10"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	7	ALT #6 - HM DOOR IN LIEU OF SCW
1-B359	STERILE PROCESSING	1-B359.1	3'-0"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	7	ALT #6 - HM DOOR IN LIEU OF SCW
1-B361	OFFICE	1-B361.1	3'-0"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	9	ALT #6 - HM DOOR IN LIEU OF SCW
1-B362A	PRE ROOM	1-B362A.1	3'-0"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	9	ALT #6 - HM DOOR IN LIEU OF SCW
1-B362	OFFICE	1-B362.1	3'-0"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	9	ALT #6 - HM DOOR IN LIEU OF SCW
1-B363	MECHANICAL SPACE	1-B363.1	4'-8"	7'-0"	H.M.	F	H.M.	F1	1/1-A600	2/1-A600	13	ALT #6 - HM DOOR IN LIEU OF SCW
1-BC6	CORRIDOR 6	1-BC6.1	3'-0"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	10	ALT #6 - HM DOOR IN LIEU OF SCW
1-BC8	CORRIDOR 8	1-BC8.1	3'-0"	7'-0"	SCW	N	H.M.	F1	1/1-A600	2/1-A600	11	ALT #6 - HM DOOR IN LIEU OF SCW

- DOOR & FRAME GENERAL NOTES**
- ALL EXTERIOR DOORS ARE TO HAVE WEATHER-STRIPPING.
 - ALL FIRE RATED AND SMOKE-TIGHT DOORS TO HAVE CLOSERS.
 - ALL DOOR AND WINDOW FRAMES SHALL HAVE SEALANT & BACKER ROD AT ENTIRE PERIMETER (BOTH SIDES) U.N.O.
 - REFERENCE SHEET A-600 FOR TYP. INTERIOR DOOR SEAL AND JAMB DETAILS.
 - SEE SPECIFICATIONS FOR HARDWARE SETS.
 - ALL OUTSIDE DIMENSIONS OF FRAME TYPES ARE ROUGH OPENING SIZES.
 - ALL HOLLOW METAL FRAMES TO BE 2" PROFILE U.N.O.
 - REFERENCE SHEET A-600 FOR FRAME TYPES.
 - MAINTAIN 4" MIN. (2 STUDS) BETWEEN OUTSIDE (HINGE SIDE) EDGE OF ALL DOOR JAMB FRAMES AND NEAREST ADJACENT WALL, WINDOW, FIXTURE, ETC. U.N.O.
 - ALL INTERIOR DOORS & WINDOWS TO BE 1/4" GLAZING UNLESS OTHERWISE REQUIRED BY CODE.
 - STYLES & DIMENSIONS FOR DOOR TYPES LITES ARE REFLECTING DESIGN SPECIFICATIONS.
 - ST = SMOKE-TIGHT PER CODE TO RESIST THE PASSAGE OF SMOKE.
 - T = TEMPERED GLASS
 - HM = HOLLOW METAL
 - SCW = SOLID CORE WOOD
 - VERIFY IN FIELD EXISTING FRAMES SCHEDULED FOR USE IN RATED WALLS ARE RATED FOR SUCH USE. PROVIDE NEW WHERE REQUIRED.

ALTERNATES

THE FOLLOWING ALTERNATES ARE INCLUDED ON THIS SHEET
 DEDUCTIVE ALTERNATE NO. 4 - LAMINATE-CLAD CASEWORK, SOLID SURFACE COUNTERTOPS & PHENOLIC LOCKERS
 DEDUCTIVE ALTERNATE NO. 4 - INTERIOR FINISHES

REFER TO SHEET G-001 AND SPECIFICATIONS FOR MORE INFORMATION



1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:

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File Name
 File Location

Drawing Title
ARCHITECTURAL DETAILS & SCHEDULES

Approved: Division Chief
 Approved: Service Director

Project Title
SPS & LOGISTICS STORAGE AREA RENOVATION

Building Number
 1

Location
 1500 WEISS ST. SAGINAW, MI 48602

Date
 12-8-2014

Project Number
 655-13-103

Drawing Number
A-600

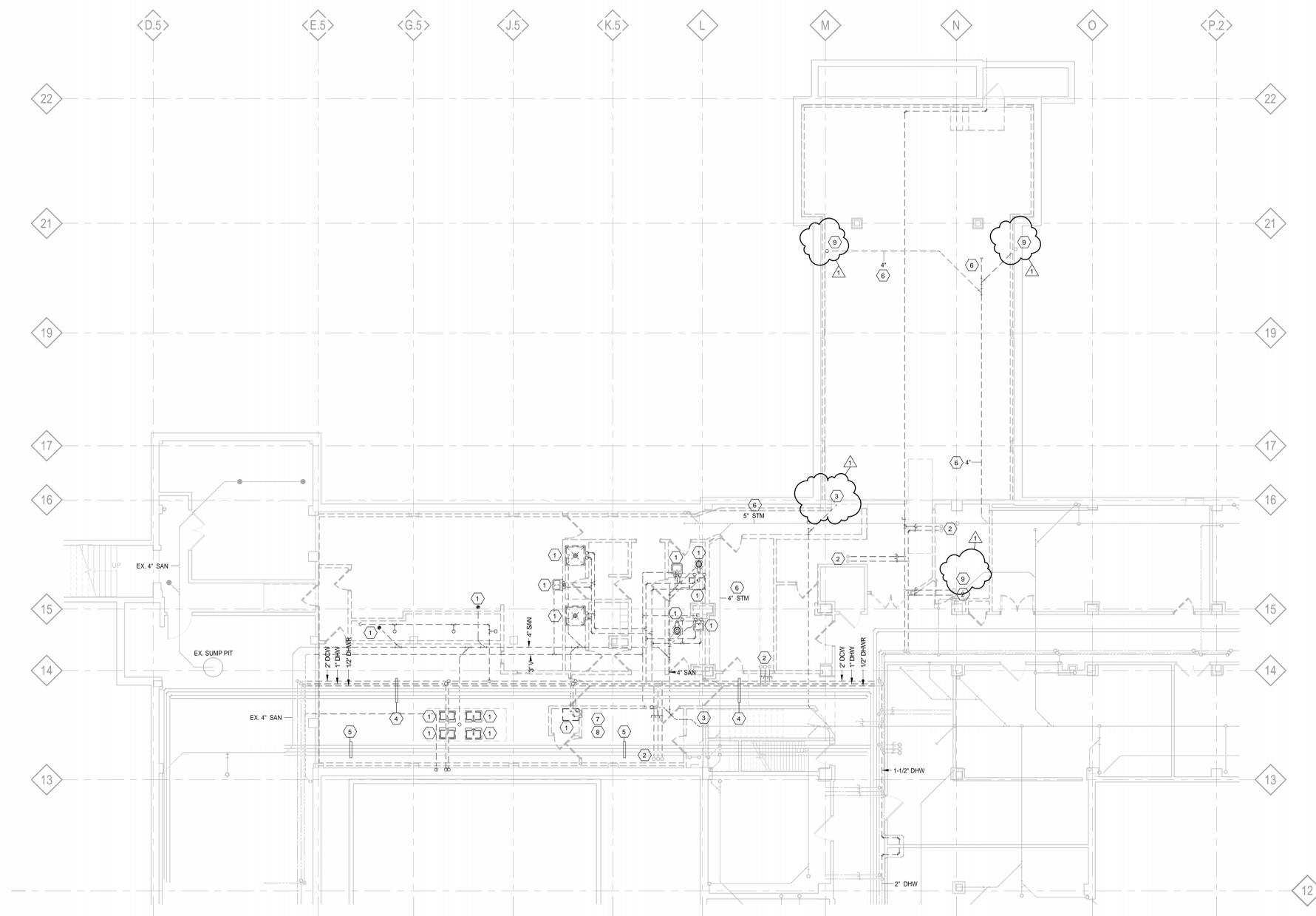
Office of Facilities Management

Department of Veterans Affairs

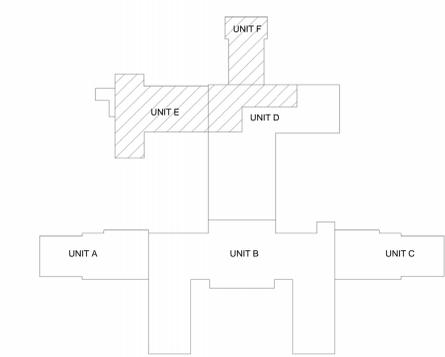
PLUMBING DEMOLITION GENERAL NOTES:
 CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL EXISTING SYSTEMS AND TO VERIFY AND CONFIRM WITH THE VA ANY AND ALL SYSTEMS WHICH ARE INACTIVE AND HAVE BEEN ABANDONED IN PLACE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL INACTIVE SYSTEMS FROM WITHIN THE BOUNDARIES OF THE AREA OF WORK. PROVIDE A COST PER LINEAR FOOT FOR REMOVING PIPING SYSTEMS THAT MAY NOT BE SHOWN ON THE DRAWINGS.

1. REPRESENTATION OF EXISTING SYSTEMS AND PIPING ARE BASED ON EXISTING DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING FIXTURES AND PIPING. CONTRACTOR SHALL FIELD VERIFY SCOPE OF DEMOLITION AND ALL POINTS OF CONNECTION.
2. REFER TO NEW WORK PLANS FOR LOCATIONS OF NEW PLUMBING FIXTURES.
3. PLUMBING FIXTURES AND PIPING SHOWN IN DASHED LINES ARE TO BE REMOVED UNLESS NOTED OTHERWISE. REMOVE PIPING TO EXTENTS SHOWN.
4. ALL DOMESTIC WATER RISERS ARE TO REMAIN. REFER TO NEW PLUMBING PLAN FOR NEW CONNECTIONS.

- PLUMBING DEMOLITION KEY NOTES:**
- 1 REMOVE PLUMBING FIXTURE.
 - 2 DOMESTIC WATER RISERS TO FIRST FLOOR TO REMAIN.
 - 3 CONTRACTOR SHALL REMOVE EXISTING SANITARY RISER TO JUST BELOW FIRST FLOOR.
 - 4 EXISTING PIPING SHALL AND SHALL BE REMOVED. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING COMPRESSED AIR PIPING, VACUUM PIPING, AND NO2 PIPING. VERIFY AND CONFIRM WITH VA IF SYSTEMS ARE STILL ACTIVE. IF SYSTEMS ARE NO LONGER ACTIVE THEN CONTRACTOR IS TO REMOVE THEM FROM THE AREA OF WORK. IF SYSTEMS ARE ACTIVE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE AS NEEDED FOR INSTALLATION OF NEW SYSTEMS. INCLUDE COST FOR REMOVING AND RELOCATING SYSTEMS IN FINAL BID PRICE.
 - 5 CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPING. VERIFY AND CONFIRM WITH VA IF SYSTEMS ARE STILL ACTIVE. IF SYSTEMS ARE NO LONGER ACTIVE THEN CONTRACTOR IS TO REMOVE THEM FROM THE AREA OF WORK. IF SYSTEMS ARE ACTIVE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE AS NEEDED FOR INSTALLATION OF NEW SYSTEMS. INCLUDE COST FOR REMOVING AND RELOCATING SYSTEMS IN FINAL BID PRICE.
 - 6 CONTRACTOR SHALL LOWER EXISTING STORM PIPING FOR INSTALLATION OF NEW FLOOR SLAB.
 - 7 CONTRACTOR SHALL REMOVE EXISTING WATER TREATMENT EQUIPMENT AND ASSOCIATED PIPING IN ITS ENTIRETY.
 - 8 CONTRACTOR SHALL REMOVE EXISTING CART WASH EQUIPMENT AND ASSOCIATED PIPING IN ITS ENTIRETY.
 - 9 CONTRACTOR SHALL REMOVE EXISTING STORM RISER TO JUST BELOW FIRST FLOOR.



BASEMENT PLUMBING DEMOLITION PLAN
 1/8" = 1'-0"



KEY PLAN

Scale indicators for various drawing elements:
 three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

1	ADDENDUM 1	5-8-2014
2		
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Revisions:		Date

CONSULTANTS:



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File Name	Approved: Division Chief
File Location	Approved: Service Director

Drawing Title BASEMENT PLUMBING DEMOLITION PLAN	
Approved: Division Chief	Approved: Service Director

Project Title SPS & LOGISTICS STORAGE AREA RENOVATION		Date 12-8-2014
Building Number 1	Checked EJR	Project Number 655-13-103
Location 1500 WEISS ST. SAGINAW, MI 48602	Drawn JCW	Drawing Number PD-100

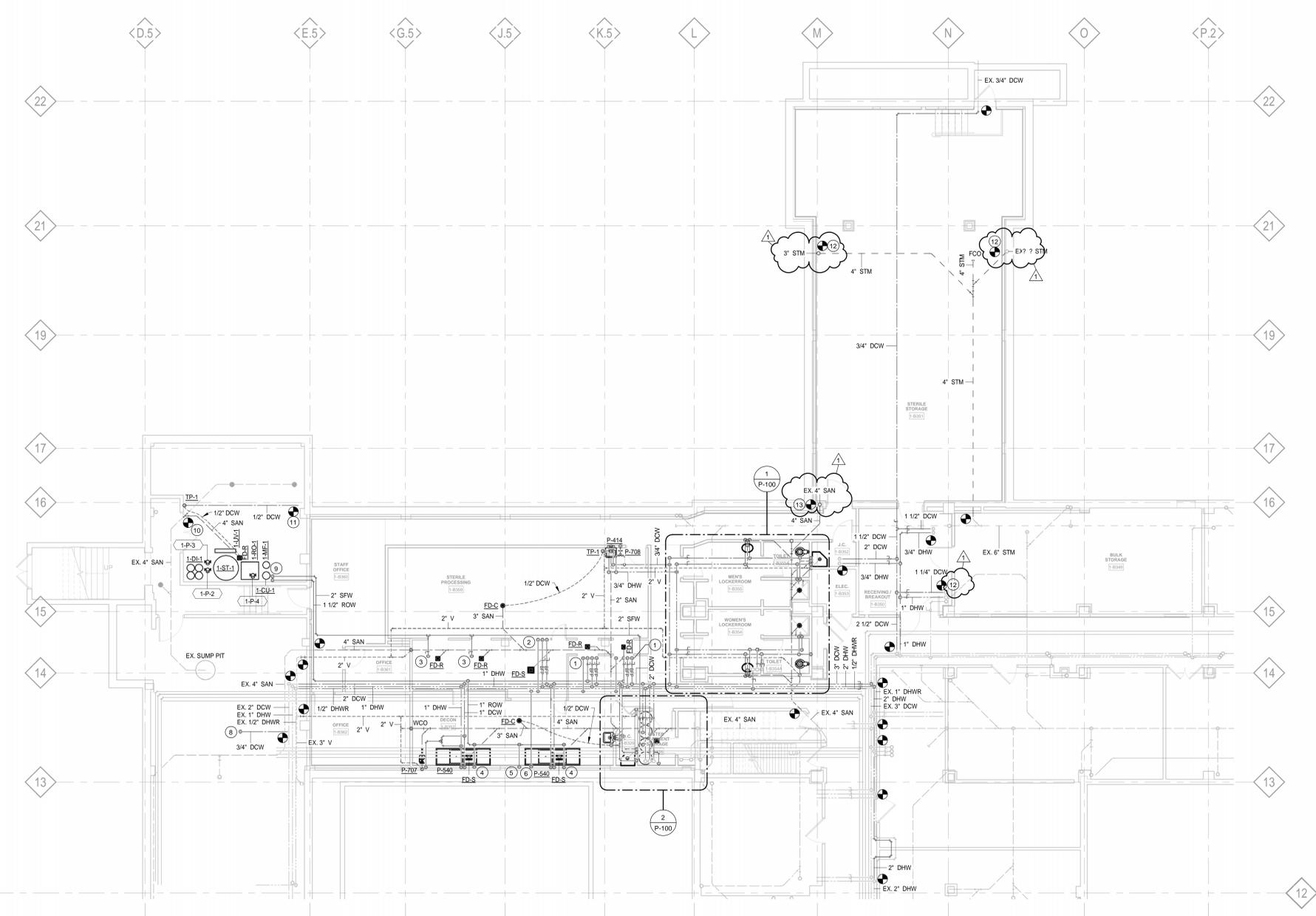
Office of Facilities Management
 Department of Veterans Affairs

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

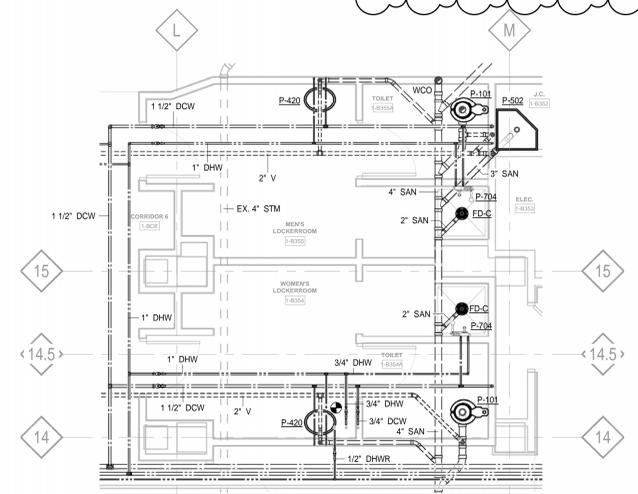
ALTERNATES
 THE FOLLOWING ALTERNATES ARE INCLUDED ON THIS SHEET
 DEDUCTIVE ALTERNATE NO. 3 - STAINLESS STEEL CASEWORK AND SINK
 REFER TO SHEET G-001 AND SPECIFICATIONS FOR MORE INFORMATION

PLUMBING GENERAL NOTES:
 CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL EXISTING SYSTEMS AND TO VERIFY AND CONFIRM WITH THE VA ANY AND ALL SYSTEMS WHICH ARE INACTIVE AND HAVE BEEN ABANDONED IN PLACE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ALL EXISTING ACTIVE SYSTEMS NECESSARY FOR THE INSTALLATION OF ALL NEW SYSTEMS. PROVIDE A COST PER LINEAR FOOT FOR RELOCATING PIPING SYSTEMS THAT MAY NOT BE SHOWN ON THE DRAWINGS.

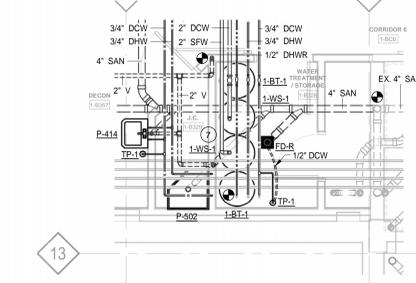
- PLUMBING KEY NOTES:**
- 1" DCW, 1" DHW, 1" ROW, AND 1/4" CA DOWN TO EQUIPMENT WASHER. PROVIDE WATER LINES WITH SHUT-OFF VALVE AND BACKFLOW PREVENTER. REFER TO SPECIFICATIONS FOR TYPE. CONNECTIONS ARE TO BE MADE PER MANUFACTURER'S REQUIREMENTS.
 - 1-1/4" DCW, 1-1/4" DHW, AND 1/2" CA DOWN TO AUTOMATIC CART WASHER. PROVIDE WATER LINES WITH SHUT-OFF VALVE AND BACKFLOW PREVENTER. REFER TO SPECIFICATIONS FOR TYPE. CONNECTIONS ARE TO BE MADE PER MANUFACTURER'S REQUIREMENTS.
 - 1" SFW DOWN TO STERILIZER. PROVIDE WITH SHUT-OFF VALVE. CONNECTIONS ARE TO BE MADE PER MANUFACTURER'S REQUIREMENTS.
 - 3/4" ROW DOWN TO PURIFIED WATER FAUCET OF DECON SINK.
 - 3/4" ROW DOWN TO ULTRASONIC CLEANER.
 - 1/4" CA DOWN TO WALL MOUNTED CONNECTION BRACKET AND HOSE.
 - 2" DCW TO WATER SOFTENER SYSTEM. SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. REFER TO DETAIL 1P-600 AND SPECIFICATIONS.
 - 3/4" DCW DOWN TO STEAM GENERATOR AND WATER TEMPERING DEVICE.
 - 2" SFW TO PACKAGED REVERSE OSMOSIS SYSTEM. SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. REFER TO DETAIL 1P-600 AND SPECIFICATIONS.
 - SAWCUT FLOOR FOR NEW 4" SANITARY. CONNECT TO EXISTING.
 - CONNECT 1/2" DCW TO EXISTING DCW MAIN.
 - CONNECT NEW STORM RISER TO EXISTING STORM RISER IN BASEMENT CEILING SPACE.
 - CONNECT NEW SANITARY RISER TO EXISTING SANITARY RISER IN BASEMENT CEILING SPACE.



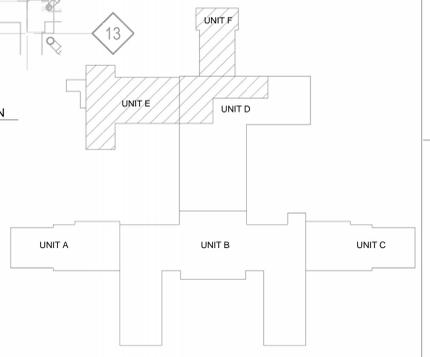
BASEMENT PLUMBING PLAN
 1/8" = 1'-0"



1 ENLARGED LOCKER ROOM PLUMBING PLAN
 1/4" = 1'-0"



2 ENLARGED WATER TREATMENT PLUMBING PLAN
 1/4" = 1'-0"



KEY PLAN

1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:

c2ae
 elevating human achievement

Department of Veterans Affairs
 Aleda E Lutz Medical Center
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 Saginaw, MI 48602

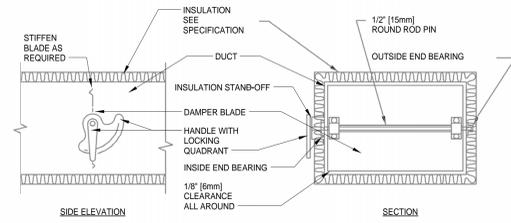
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File Name	Approved: Division Chief
File Location	Approved: Service Director

Drawing Title BASEMENT PLUMBING PLAN		
Approved: Division Chief	Checked: EJR	Drawn: JCW
Approved: Service Director		

Project Title SPS & LOGISTICS STORAGE AREA RENOVATION		Date 12-8-2014
Building Number 1	Project Number 655-13-103	Drawing Number P-100
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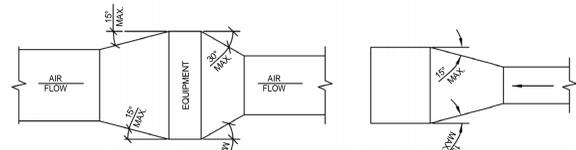
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BID DOCUMENTS



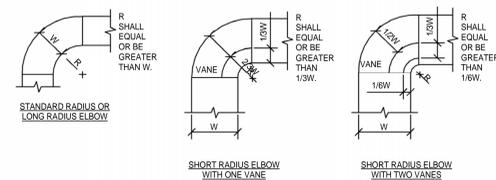
- NOTE:**
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 - DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

11 VOLUME DAMPER DETAIL
N.T.S.



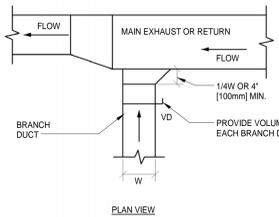
NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

12 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)
N.T.S.



- NOTE:**
- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 - ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

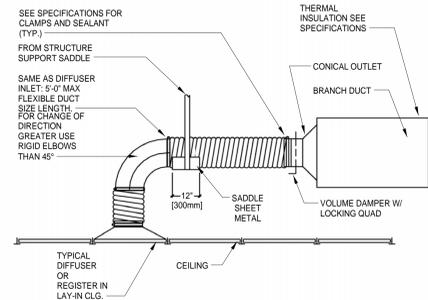
13 DUCTWORK RADIUS ELBOWS
N.T.S.



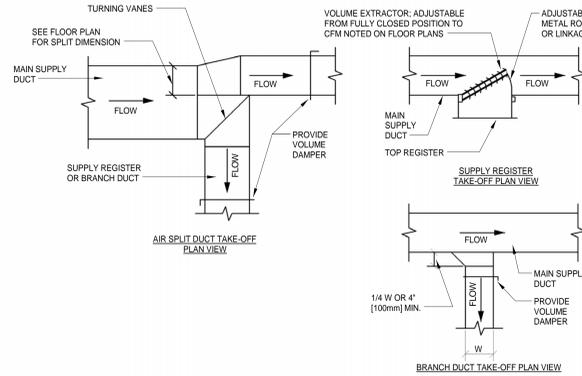
14 EXHAUST OR RETURN BRANCH DUCTWORK
N.T.S.

- NOTE:**
- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 - WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 - ALL SINGLE THICKNESS VANES SHALL HAVE A 2\"/>

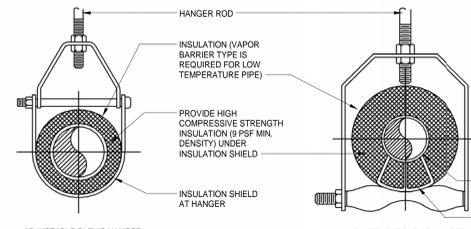
15 DUCTWORK SQUARE VANE ELBOWS
N.T.S.



8 FLEXIBLE AIR DUCT CONNECTOR
N.T.S.



9 SUPPLY DUCTWORK TAKE-OFFS
N.T.S.



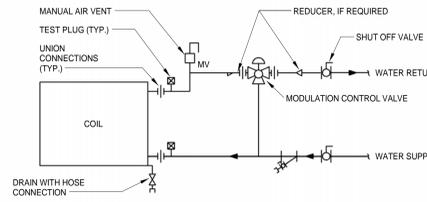
NOTES: SEE SPECIFIER FOR DETAILED HANGER REQUIREMENTS

SIDE VIEW TRAPEZOIDAL HANGER FOR UP TO 1000 LB. UNIFORM LOAD

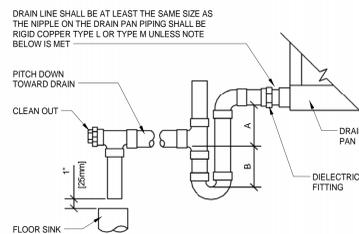
NOM. SIZE		MAXIMUM PIPE/TUBING SUPPORT SPACING																							
IN (mm)	THRU 3/4 (20)	1 (25)	1 1/2 (38)	2 (51)	2 1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	14 (356)	16 (407)	18 (457)	20 (508)	24 (609)								
PIPE	5 FT (1524)	6 (1829)	7 (2134)	8 (2439)	9 (2744)	10 (3049)	11 (3354)	12 (3659)	13 (3964)	14 (4269)	15 (4574)	16 (4879)	17 (5184)	18 (5489)	19 (5794)	20 (6099)	24 (7314)								
TUBING	5 FT (1524)	6 (1829)	7 (2134)	8 (2439)	9 (2744)	10 (3049)	11 (3354)	12 (3659)	13 (3964)	14 (4269)	15 (4574)	16 (4879)	17 (5184)	18 (5489)	19 (5794)	20 (6099)	24 (7314)								

NOTE: FOR TRAPEZOIDAL HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZOID.

10 PIPE HANGERS
N.T.S.



5 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS (3-WAY VALVE)
N.T.S.

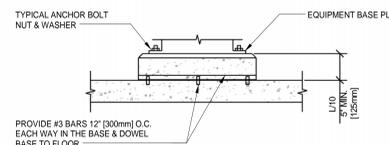
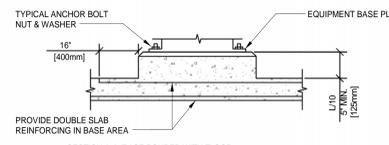
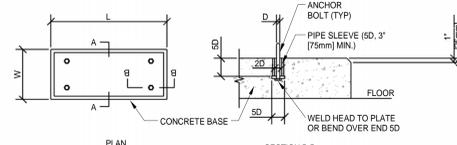


- NOTE:**
- CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
 - DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2\"/>	

WHERE X = STATIC PRESSURE IN PAN

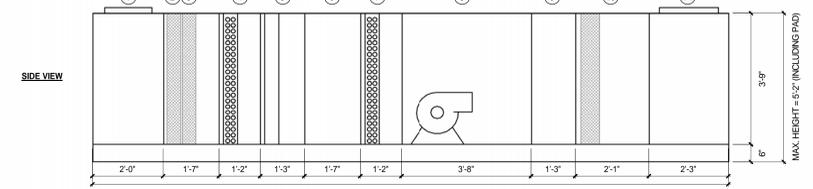
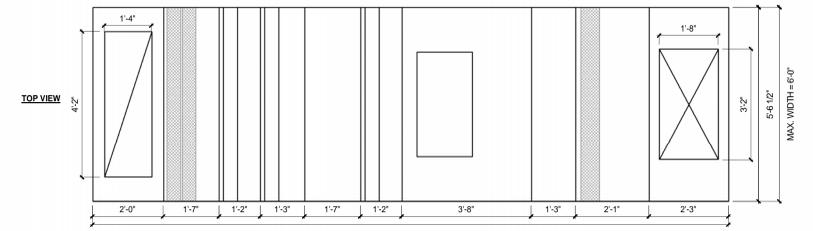
6 AIR HANDLING UNIT DRAIN TRAP DETAIL
N.T.S.



NOTE: L & W DIMENSIONS SHALL BE 6\"/>

NOTE: TYPICAL FOR ALL FLOOR MOUNTED EQUIPMENT WITHIN MECHANICAL ROOM

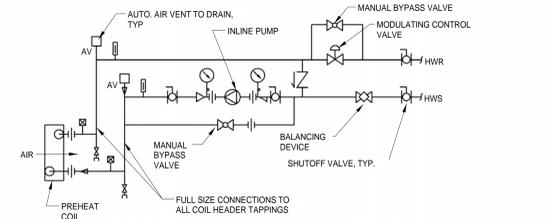
7 CONCRETE EQUIPMENT BASES
N.T.S.



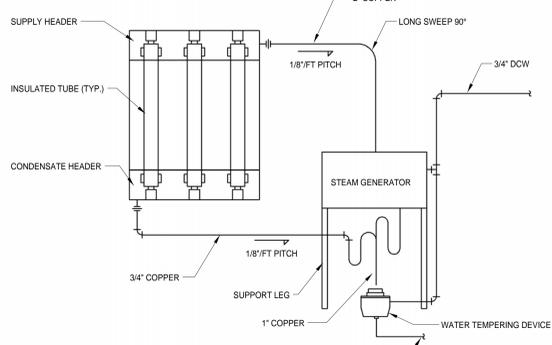
- OUTSIDE AIR INTAKE
- PREFILTER 1 - MERV 7 (1-PF-6)
- PREFILTER 2 - MERV 11 (1-AF-6)
- HOT WATER COIL (1-HWC-6)
- HUMIDIFIER SECTION (1-SH-6)
- ACCESS SECTION
- DX COOLING COIL (1-CC-6)
- FAN SECTION (1-SF-6)
- DIFFUSER SECTION
- AFTER FILTER - MERV 14 (1-FF-6)
- SUPPLY AIR PLENUM SECTION

NOTE: UNIT SHALL BE SHIPPED IN SPLITS WHERE THE SHIPPING SECTIONS CAN FIT THROUGH A 3'-10\"/>

1 TYPICAL AHU SECTION DETAIL
N.T.S.

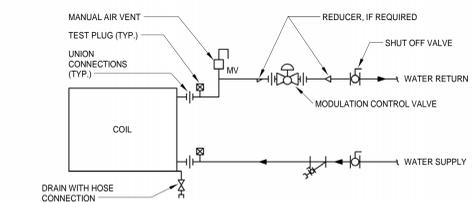


2 PREHEAT COIL (HOT WATER) - PIPING CONNECTIONS
N.T.S.



NOTE: 1. SEE MANUFACTURER'S PIPING RECOMMENDATIONS FOR FINAL LAYOUT, PIPE SIZES AND REQUIREMENTS.

3 STEAM GENERATOR AND HUMIDIFIER DETAIL
N.T.S.



4 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS (2-WAY VALVE)
N.T.S.

1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:

c2ae
elevating human achievement



Department of Veterans Affairs
Aleda E Lutz Medical Center
1500 Weiss Street
Saginaw, MI 48602

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File Name	Approved: Division Chief
File Location	Approved: Service Director

Project Title SPS & LOGISTICS STORAGE AREA RENOVATION	Date 12-8-2014
Building Number 1	Project Number 655-13-103
Checked EJR	Drawn JCW
Location 1500 WEISS ST. SAGINAW, MI 48602	Drawing Number M-500

Office of
Facilities
Management

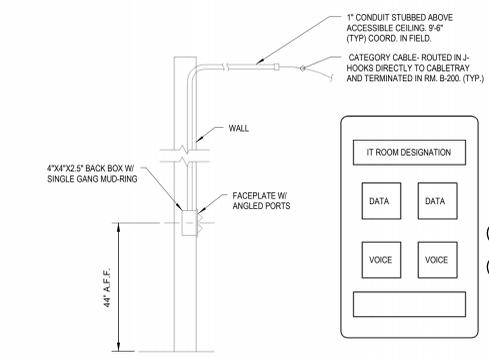
Department of
Veterans Affairs

ELECTRICAL SPECIAL SYSTEMS KEYNOTES

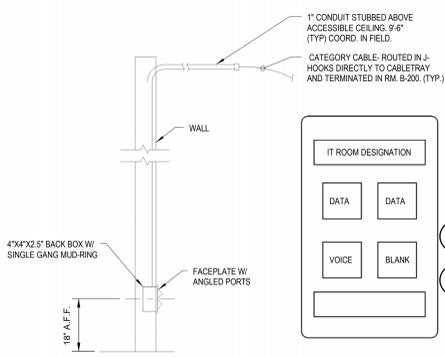
- REINSTALL EXISTING CAMERA AND CAMERA CONTROLS.
- DOOR BUZZER MOUNTED AT 7'-0" TYPICAL. CONNECTED TO DOOR BUZZER/ BUTTON SYSTEM.
- DOOR BUTTON MOUNTED AT 4'-8" TYPICAL. BUTTON TO ACTIVATE DOOR BUZZERS.
- CABLETRAY TO BE INSTALLED IN SAME LOCATION AS EXISTING CABLETRAY SYSTEM. MODIFY WALL PENETRATIONS IN CORRIDOR AS REQUIRED AND PROVIDE TRANSITION AND PROTECTION ON EXISTING CABLETRAY WHERE EXISTING CABLES TRANSITION FROM NEW TO EXISTING CABLETRAY.
- COORDINATE WALL PENETRATION OF CABLETRAY WITH EXISTING CONDUIT IN CORRIDOR AND WITH MECHANICAL PRIOR TO INSTALLATION. TYPICAL MOUNTING HEIGHT SHALL BE 9'-0" AFF WHERE LOCATED ABOVE CEILING.
- COORDINATE CABLETRAY WITH NEW CONDUIT AND MECHANICAL PRIOR TO INSTALLATION. TYPICAL MOUNTING HEIGHT SHALL BE 9'-0" AFF WHERE LOCATED ABOVE CEILING.
- PROVIDE (4) NEW 4" CONDUIT PENETRATIONS FROM CORRIDOR TO RM 8200. CONDUIT SHALL BE INSTALL AT APPROX. 12'-0" AND BE SPACED WITH EXISTING CONDUIT PENETRATIONS. CONDUIT TO EXTEND INTO HALLWAY TO PROVIDE EASE OF ACCESS ADJACENT TO CABLETRAY. COORDINATE FINAL EXTENSION WITH COR.
- RELOCATED OWNER TRACKING SYSTEM COMPONENTS. FIELD VERIFY LOCATION WITH COR.
- RELOCATED OWNER WIRELESS SYSTEM COMPONENTS. FIELD VERIFY LOCATION WITH COR.
- PROVIDE NEW CAT5E PATCH PANELS IN EXISTING RACK FOR NEW DATA CONNECTIONS.
- RELOCATED TRACKING SYSTEM COMPONENTS. FIELD VERIFY LOCATION WITH COR.
- DOOR CONTROLLER. MOUNT ABOVE CEILING ON SECURE SIDE. CONTROL DEVICES REQUIRED VARY WITH DOOR - SEE DETAIL. THIS SHEET, AND SPECIFICATION SECTION 08 71 00.01 FOR DOOR HARDWARE SCHEDULE.

GENERAL NOTES:

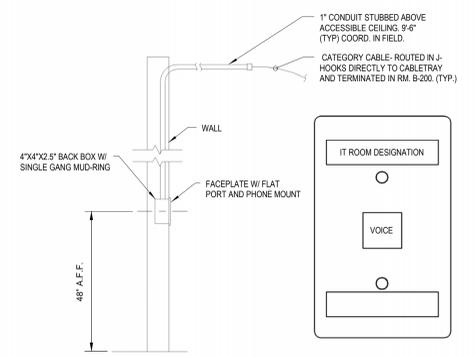
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST PUBLISHED EDITION OF THE NATIONAL ELECTRICAL CODE, NEC, AND ALL STATE AND LOCAL CODES.
- COORDINATE THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND CONNECTIONS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND EQUIPMENT DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER, CONDUITS, CABLETRAY, AND OTHER COMPONENTS AS SHOWN ON THE EQUIPMENT PROVIDER DRAWINGS FOR INSTALLATION OF SYSTEM.
- "BACK TO BACK" OR THROUGH THE WALL BOXES SHALL NOT BE USED.
- INSTALL HANDLE LOCK-ON, ON ALL CIRCUIT BREAKERS CONTROLLING NIGHT LIGHT, EMERGENCY LIGHT AND EXIT LIGHT CIRCUITS.
- ALL RECEPTACLES SHALL BE HOSPITAL GRADE CONSTRUCTION.
- PROVIDE HOSPITAL GRADE, TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY APPLICABLE CODES.
- RECEPTACLES INDICATED AS GROUND FAULT CIRCUIT INTERRUPTER TYPE SHALL BE HOSPITAL GRADE DUPLEX RECEPTACLES WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
- ALL CONDUCTORS SHALL BE COPPER. ALUMINUM WIRES SHALL NOT BE USED.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR POWER FEEDS AND 1-1/4" FOR DATA FEEDS.
- MOTOR LOADS WHICH ARE LESS THAN 6.0 AMPS SHALL BE PROTECTED BY A 15 AMP CIRCUIT BREAKER.
- FINAL CONNECTION TO TENS SUBJECT TO VIBRATION SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT.
- LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT WILL NOT BE APPROVED FOR USE AS A GROUNDING CONDUCTOR. A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED.
- 120/208VAC CIRCUIT WIRING FOR ANY ROOM OR AREA MAY BE GROUPED INTO RACEWAYS UNLESS SEPARATE RACEWAYS ARE REQUIRED BY THE NEC. COMPLY WITH NEC REQUIREMENTS FOR CONDUCTOR DERATING.
- PROVIDE EQUIPMENT GROUNDING CONDUCTORS FOR ALL POWER AND LIGHTING CIRCUITS.
- ALL LIGHTING AND POWER CONDUCTORS SHALL BE 12 AWG MINIMUM. ALL CONTROL CONDUCTORS SHALL BE 14 AWG MINIMUM OR AS SPECIFIED BY MANUFACTURER.
- DEDICATED NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS. SHARED NEUTRALS ARE NOT ALLOWED.
- CIRCUITS SHOWN FOR EXISTING PANEL ARE FOR GENERAL REFERENCE ONLY. FIELD VERIFY LOCATION IN PANEL AND PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANELS.
- CONTRACTOR SHALL REVISE ALL EXISTING CIRCUIT MONITORING WHERE CIRCUITS ARE MODIFIED AND/OR RELABELLED IN PANELBOARDS. ALL CIRCUITS SHALL BE RUN THRU INTERNAL PANELBOARD METERING. SOFTWARE SHALL BE MODIFIED FOR BOTH DESCRIPTION AND LOCATION OF NEW AND REVISED EQUIPMENT.
- ALL CONDUIT SHALL BE INSTALLED IN WALLS AND ABOVE CEILING. CONDUIT SHALL NOT BE INSTALLED UNDERGROUND UNLESS SPECIFICALLY NOTED.
- ALL CONDUIT SHALL BE ROUTED ABOVE GRADE UNLESS OTHERWISE NOTED.
- CONTRACTOR TO CONSOLIDATE ALL EXISTING CABLE, CONDUIT, AND CONDUCTORS SERVING LOCATIONS AND DEVICES OUTSIDE OF PROJECT SCOPE OF WORK. CONSOLIDATION SHALL INCLUDE COORDINATION WITH THE FOLLOWING:
 - CONTRACTOR TO PROVIDE MULTIPLE SHARED CONDUIT TRAPEZE FOR LIGHTING AND POWER CIRCUITS SERVING LOADS INSIDE SCOPE OF WORK AND FOR ALL CIRCUITS FEEDING THRU SCOPE OF WORK AREA AND HAVE 20% SPARE CAPACITY, UNLESS OTHERWISE NOTED. TRAPEZES SHALL BE RUN THRU DECON AREA, STERILE PROCESSING, STERILE STORAGE, AND BULK STORAGE. ALL LOCATIONS SHALL BE COORDINATE WITH MECHANICAL PLUMBING FIRE PROTECTION EQUIPMENT FOR SPACE AND ACCESS OF EQUIPMENT AND ELECTRICAL JUNCTION AND PULL BOX REQUIREMENTS. CONTRACTOR SHALL RELOCATE TRAPEZE AT THEIR OWN COST IF EQUIPMENT IS DEEMED INACCESSIBLE.
 - BUILDING SYSTEM CONTROLS SERVING MECHANICAL SPACE AND SPACES OUTSIDE SCOPE OF WORK SHALL BE REPLACED WITH NEW AND BE RUN THRU CABLETRAY SYSTEM.
 - FIRE ALARM CONDUIT, CONDUCTORS, AND COMPONENTS SHALL BE REPLACED. CONDUITS TO BE RUN ON TRAPEZE SYSTEM.
 - IT, SECURITY, NURSE CALL SYSTEM, AND ALL OTHER CONTROL SYSTEM AND CABLE SYSTEMS RUNNING THROUGH SCOPE OF WORK AREA SHALL BE REPLACED SO THAT EXPOSED CABLEING SHALL RUN IN CABLE TRAY SYSTEM AND CONDUITS SHALL BE COORDINATED WITH TRAPEZE, MECHANICAL, AND PLUMBING SYSTEMS.



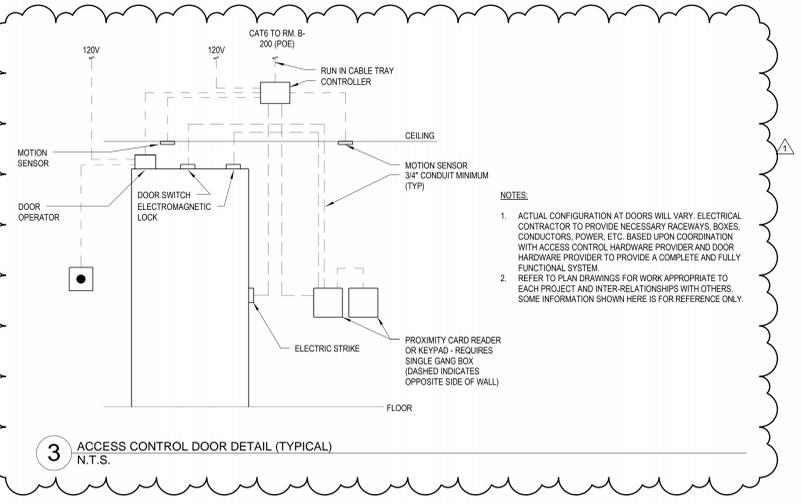
4 TYPE 4 DATA DROP (TYPICAL) N.T.S.



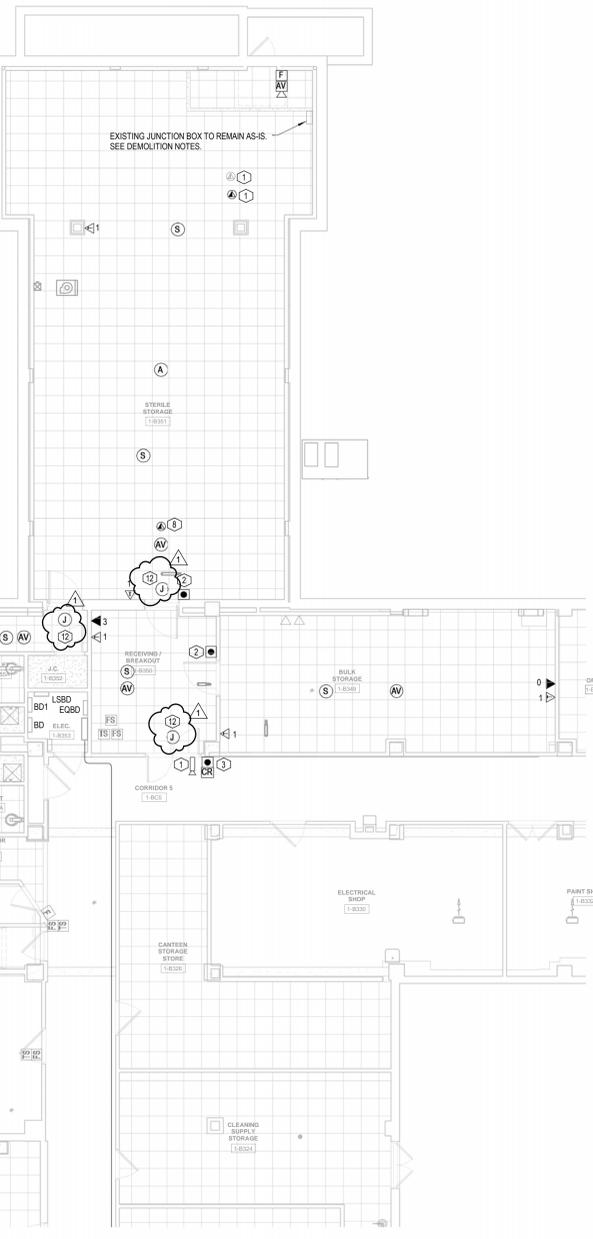
2 TYPE 2 DATA DROP (TYPICAL) N.T.S.



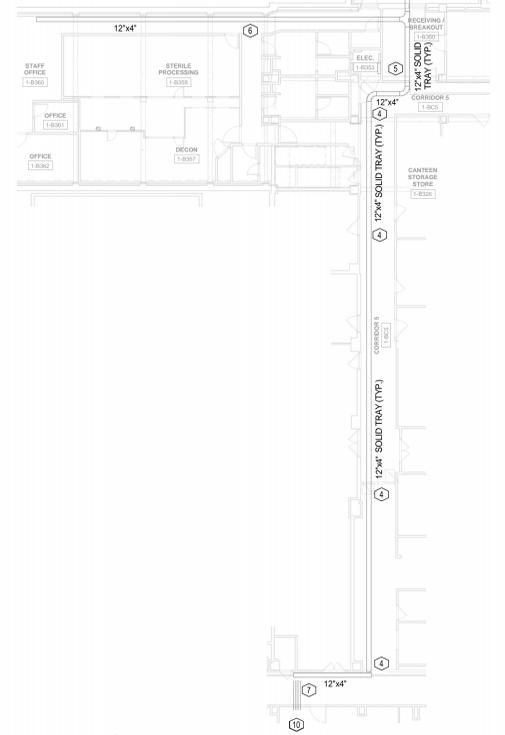
1 TYPE 1 VOICE DROP (WALL - MOUNT PHONE) N.T.S.



3 ACCESS CONTROL DOOR DETAIL (TYPICAL) N.T.S.

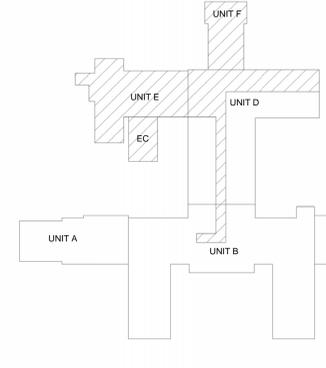


BASEMENT SPECIAL SYSTEMS PLAN 1/8" = 1'-0"



BASEMENT SPECIAL SYSTEMS CABLETRAY PLAN 1/16" = 1'-0"

KEY PLAN



1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:



Department of Veterans Affairs
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1500 Weiss Street
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Drawing Title	BASEMENT SPECIAL SYSTEMS PLAN
Approved: Division Chief	
Approved: Service Director	

Project Title	SPS & LOGISTICS STORAGE AREA RENOVATION
Building Number	1
Location	1500 WEISS ST. SAGINAW, MI 48602
Date	12-8-2014
Project Number	655-13-103
Drawing Number	ES-110

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Department of Veterans Affairs