ADDENDUM #1

Date: August 1, 2012
Project: Project 405-304, Sterile Processing and Distribution Replacement
VAMC White River Junction, Vermont
Architect: Warrenstreet Architects, Inc.

Attachments

Specification Section 09 30 13, Ceramic Tiling, dated 8/1/2012.	(11 pages)
SKS-1, SKS-2 & SKS-3, dated 7/31/2012	(3 pages)
000110 Table of Contents, revised 8/1/2012	(6 pages)
000115 List of Drawing Sheets, dated 8/1/2012.	(6 pages)

For a list of attached drawings and specification sections, see highlight entries dated 8/1/2012 in the attached Table of Contents and Lists of Drawing Sheets.

Part 1: Questions / Answers:

No Questions at this time.

Part 2: Addenda to Specifications, dated 6/24/2011:

2.1 Section 00 01 10 – Table of Contents

a. The table of contents of specification sections has been revised to include the current date of each of the drawings listed to clarify which sections have been revised or added as part of this Addendum.

2.2 Section 00 01 15 – List of Drawing Sheets

a. The list of drawings has been added to the specification to include the current date of each of the drawings listed to clarify which sheets have been revised or added as part of this Addendum.

2.3 Section 07 60 00 – Flashing and Sheet Metal

a. Paragraph 2.4 C: DELETE subparagraphs 3b and 3d complete.
b. Paragraph 2.4 C.1: REPLACE with the following:
"1. Steel and Galvanized Steel:
a. Manufacturer's finish:
1) Fluorocarbon Finish: AAMA 621, high performance organic coating.
2) Custom color as required to match adjacent metal finishes. See Section 090600.

2.4 Section 07 40 00 – Insulated Siding Panels

a. Paragraph 2.6 A.1: REPLACE with the following:
"1. Fluorocarbon finish, consisting of a prime coat and a polyvinylidene

fluoride finish coat of 1.0 mil minimum dry film thickness on one side, and a wash coat of 0.5 mil minimum dry film thickness applied to reverse side."

2.5 Section 08 71 00 – Door Hardware

a. Paragraph 2.7 C: REPLACE paragraphs C and C.1 with text as follows:

"C. Mortise Lock Set, (Door 1109.1 only): Conform to ANSI/BHMA A156.13. Mortise locksets shall be series 1000, minimum Grade 1. All locksets and latchsets, shall have lever handles fabricated from cast stainless steel. Provide sectional (lever x rose) lever design matching cylindrical locksets. No substitute lever material shall be accepted. All locks and latchsets shall be furnished with 122.55 mm (4-7/8-inch) curved lip strike and wrought box. Furnish armored fronts for all mortise locks."

"C.1. Basis of Design: Schlage LV9480 Storeroom Lock With Deadbolt"

b. Paragraph 2.13 B.2: Kick-mop plates shall be 250mm (10 inches) high.

c. Paragraph 2.13 B.3: DELETE sub-paragraph d.

d. Paragraph 2.14: ADD Paragraphs C, D and E as follows:

"C. Concealed vertical rod panics shall be provided less bottom rod at interior doors, unless lockable or otherwise specified; provide fire pins as required by exit device and door fire labels. Where concealed vertical rod panics are specified at exterior doors, provide with both top and bottom rods."

"D. At non-rated openings with panic hardware, provide panic hardware with key cylinder dogging feature."

"E. Electric Options: Provide manufacturer's standard Electric Latch Retraction (ELR) and integrated Request To Exit (REX) functions as indicated in door hardware sets."

e. Paragraph 2.21: DELETE phrase "See SECTION 08 11 13 HOLLOW METAL DOORS AND FRAMES". ADD paragraph A as follows:

"A. Conform to ANSI A156.22. Provide mortise or under-door type, except where not practical. For mortise automatic door bottoms, provide type specific for door construction (wood or metal)."

f. REVISE the following hardware sets as follows:

30	DELETE door numbers shown ADD (1) Automatic Door Bottom
31	DELETE door numbers shown. REVISE statement to read "EACH [ADO] DOOR TO HAVE THE SAME HARDWARE AS HW SET #**30** WITH THE FOLLOWING SUBSTUTIONS:" ADD (1) Automatic Door Bottom
32	DELETE door numbers shown REVISE statement to read "EACH [ADO] DOOR TO HAVE THE SAME HARDWARE AS HW SET #**31**:" ADD (1) Automatic Door Bottom
33	ADD (1) REX Infrared Sensor, See Security Section
36	ADD (1) REX Infrared Sensor, See Security Section
37	DELETE (2) Continuous Transfer Hinges

	ADD (2) Continuous Hinges	
40	ADD (1) REX Infrared Sensor, See Security Section	
41	ADD (1) REX Infrared Sensor, See Security Section	
42	ADD (1) REX Infrared Sensor, See Security Section	
43	ADD (1) REX Infrared Sensor, See Security Section	
44	ADD (1) REX Infrared Sensor, See Security Section	
45	ADD (1) REX Infrared Sensor, See Security Section	
46	ADD (1) REX Infrared Sensor, See Security Section	
47	ADD (1) REX Infrared Sensor, See Security Section	
48 (IRM Room 1109.1)	ADD the following: 1 Continuous Transfer Hinge 1 Electrified Mortised Storeroom Lock 1 Deadbolt 2 Key Cylinder 1 Closer 1 Kick Plate 1 Card Reader w/ Keypad 1 Motion Detector 1 local enunciator w/ key arm/disarm function with cylinder	 A51031B x INTEGRAL HINGE GUARD CHANNEL, x 8-WIRE TRANSFER HARNESS, x MANTAINANCE SECTION F07, x REX, x BUILT-IN DOOR CONTACT w/ THUMB TURN TYPE AS REQUIRED C02011/C02021 See Security Section Tied to access control system.

g. Sequence of Operation for HW set 48: Deadbolt is independent of all other hardware. From corridor, electrified lockset operation is controlled by access control system through card reader, deadbolt is operated by key. From interior, deadbolt is operated by thumb turn, lockset is free to egress and issues a legal request to exit signal to the access control system. Motion detector provided within IRM room for security purposes, activation posts alarm to access control system. Local enunciator with key cylinder for local alarm override.

2.6 Section 09 06 00 – Schedule for Finishes

a. Section 2.8 C: REPLACE QT1 through QT3 with the following:
"QT1 = 24"x24", Procedo Versa Quartz Tile, Reno
QT1 = 24"x24", Procedo Versa Quartz Tile, Mint Green
QT1 = 24"x24", Procedo Versa Quartz Tile, Norfolk"

b. Section 2.8 E: Revise RB1 from 4" to 6" rubber base.

2.6 Section 09 30 13 – Ceramic Tiling

a. ADD Section 09 30 13, complete.

2.7 Section 10 26 00 – Wall and Door Protection

a. REVISE Paragraph 2.5 A to read as follows: "Fabricate from vinyl acrylic or polyvinyl chloride resilient material minimum 1.5mm (0.060 inch) thick designed especially for interior use."

b. ADD Paragraph 2.5 D. as follows: "Inside corners, divider bars and outside corners shall be provided and made out of extruded PVC. Top cap shall be made of #400 stainless steel."

2.8 DIVISION 210000, Fire Protection:

a. **DELETE ALL** DIVISION 21 00 00, FIRE PROTECTION SPECIFICATIONS dated 6/24/2012. REPLACE with new sections dated 8/1/2012, attached. See Section 00 01 10, Table of Contents for individual section numbers, titles and dates.

2.9 DIVISION 220000, Plumbing:

a. **DELETE ALL** DIVISION 22 00 00, PLUMBING SPECIFICATIONS dated 6/24/2012. REPLACE with new sections dated 8/1/2012, attached. See Section 00 01 10, Table of Contents for individual section numbers, titles and dates.

2.10 DIVISION 230000, Mechanical:

a. **DELETE ALL** DIVISION 23 00 00, MECHANICAL SPECIFICATIONS dated 6/24/2012. REPLACE with new sections dated 8/1/2012, attached. See Section 00 01 10, Table of Contents for individual section numbers, titles and dates.

2.11 DIVISION 260000, Electrical:

a. **DELETE ALL** DIVISION 26 00 00, ELECTRICAL SPECIFICATIONS dated 6/24/2012. REPLACE with new sections dated 8/1/2012, attached. See Section 00 01 10, Table of Contents for individual section numbers, titles and dates.

2.12 DIVISION 270000, Communications:

a. **DELETE ALL** DIVISION 27 00 00, ELECTRICAL SPECIFICATIONS dated 6/24/2012. REPLACE with new sections dated 8/1/2012, attached. See Section 00 01 10, Table of Contents for individual section numbers, titles and dates.

2.13 DIVISION 280000: Sections 28 05 13 through 28 31 00, Electronic Safety and Security:

a. **DELETE ALL** DIVISION 28 00 00, ELECTRONIC SAFETY AND SECURITY SPECIFICATIONS dated 6/24/2012. REPLACE with new sections dated 8/1/2012, attached. See Section 00 01 10, Table of Contents for individual section numbers, titles and dates.

2.14 Sections 33 63 00, Steam Energy Distribution:

a. ADD section 33 63 00, complete.

Part 3: Drawings:

3.1 Sheet A120: B31 Basement & Ground Floor Plans

a. Plan 1/A120: EXCHANGE door tags ST4A.1 (interior) and STA4.2 (exterior)
b. General Plan Notes: ADD note #15 as follow: "15. See sheets A601, A602 and A603 for interior elevations."

3.2 Sheet A121: B31 First & Second Floor Bridge Plans

a. Plan 2/A121: Doors 2000.1 & 2000.2: Locate Door Operator push button controls on right hand side of approach to both sides of the doors. Precede door 6'-0".
b. General Plan Notes: ADD note #15 as follow: "15. See sheets A601, A602 and A603 for interior elevations."

3.3 Sheet A122: SPD Ground & First Floor Plan

a. Plan 2/A122: INFILL blank section callout at stair STR5, Stair 5, 1/A409.
b. Plan 2/A122: INFILL blank section callout at Elevator, column line K-4, 1/A405.
c. General Plan Notes: ADD note #15 as follow: "15. See sheets A601, A602 and A603 for interior elevations."

3.4 Sheet A123: SPD Second Floor and Penthouse Plan

a. General Plan Notes: ADD note #15 as follow: "15. See sheets A601, A602 and A603 for interior elevations."

3.5 Sheet A131: B31 First & Second Floor Bridge Dimension Plan

a. Plan 1/A131: ADD label on east wall of room 1001, Storage, with wall type 4.
b. Plan 1/A131: ADD label on wall containing door 1000.2 with wall type 15.
c. Plan 1/A131: ADD label on wall containing door 1100.1 with wall type 15.

3.6 Sheet A132: SPD Ground & First Floor Dimension Plan

a. Plan 2/A132: ADD label on west wall of room 1009, Data, with wall type 4.
b. Plan 2/A132: ADD label on west wall of room 1103, Elevator Machine Room, with wall type 4.
c. Plan 2/A132: REVISE label on east wall of room 1009, Data, from wall type 6 to wall type 4.
d. Plan 2/A132: ADD label on wall containing door 1104A.1 with wall type 4.

3.7 Sheet A133: SPD Second Floor and Penthouse Dimension Plan

a. Plan 1/A133: ADD label on wall containing door 2111.1 with wall type 2.

3.8 Sheet A143: SPD Deduct Alternate Ceiling Plans

a. ADD sheet A143, revised 8/1/2012, complete.

3.9 Interior Materials Legend, shown on sheets A150, A151, A152, A120, A601, A602 and A603.

a. REPLACE materials shown for quartz tile QT1, QT2 & QT3 as indicated in

Item 2.4 above.

b. CT1 and CT2 shall be defined as follows: 4 ¼" x 4 ¼" glazed ceramic wall tile, color: To Be Selected from Daltile, Group 1 and 2, or equal.

3.10 Sheet A201: Finish Schedule

a. REPLACE Remark Note #3 with the following:
"3. Provide satin finished, anodized aluminum transition strip @ door appropriate to adjacent materials thicknesses.

b. REPLACE Remark Note #4 with the following:
"4. Stair treads shall be sealed concrete with embedded 2-stage stair nosings. Provide Wooster Products NITEGLOW WP-RN3SG-NG or equal. Wooster Products, 1-800-321-4936, www.wooster-products.com"

c. Finish Schedule: All entries indicated as "EF1" shall read "EP1".

d. Finish Schedule: Delete the following schedule entries:
1. 1104, Second instance from top, Duplicate, blank entry.
2. 1110, Room does not exist.
3. 2002, Second instance from top, Duplicate, blank entry

e. Finish Schedule: All entries for room 2004A to match room 2004.

f. Rooms 2102A, 2103A, 2107A and 2108A: Revise Wall Finish for all 4 walls to CT1 and CT2.

3.11 Sheet A202: Door Schedule

a. REVISE the following Door Schedule Entries:
1. Door 1000.2: ADD 45 min. fire rating.
2. Door 1109.1: CHANGE hardware set from 17 to 48.
3. Door 2106.1: CHANGE hardware set from 1 to 30.
4. Door 2120.6: CHANGE hardware set from 17 to 44.

3.12 Sheet A203: Window Schedule & Elevations

a. ADD sheet A203, revised 8/1/2012, complete.

3.13 Sheet A301: South & West Elevations

a. Elevation Key Notes 9, 10, 11 and 12: REPLACE the word "Alum" with the word 'Metal" in all four key notes.

b. Elevation 1/A301: REPLACE keynote '8' with keynote '9' at the roof edge to the left of column line K and column line M.

c. Elevation 2/A301: REPLACE keynote '8' with keynote '9' at the roof edge to the left of column line 6 and column line 11.

3.14 Sheet A302: North & East Elevations

a. Elevation Key Notes 9, 10, 11 and 12: REPLACE the word "Alum" with the word 'Metal" in all four key notes.

b. Elevation 1/A302: REPLACE keynote '8' with keynote '9' at the roof edge to the left of column line M.

c. Elevation 2/A302: REPLACE keynote '8' with keynote '9' at the roof edge to the left of column line 6.

3.15 Sheet A303: Deduct Alt. Elevations

a. Elevation Key Notes 9, 10, 11 and 12: REPLACE the word "Alum" with the word 'Metal" in all four key notes.

3.16 Sheet A407: Wall Sections

a. Wall Section 3/A407: REPLACE the note "Alum roof edge" with the note "Metal roof edge".

3.17 Sheet A411: Wall Sections

a. Wall Section 1/A411: REPLACE the note "Alum roof edge" with the note "Metal roof edge".

3.18 Sheet A503: Section Details

a. Details 1 and 2/A503: REPLACE the note "Alum roof edge" with the note "Metal roof edge".

3.19 Sheet A504: Section Details

a. Details 2 and 11/A503: REPLACE the note "Alum roof edge" with the note "Metal roof edge".

3.20 Sheet A601: Interior Elevations

a. Elevation 13/A601: Workstations shown are 'Not in Contract'

3.21 Sheet A602: Interior Elevations

a. Elevations 14, 15, 16 & 17 /A602: All wall surfaces in toilet room to be ceramic tile finish, including the GWB soffit indicated over the shower stall. Shower stall to be acrylic as specified in plumbing drawings.

b. Elevations 22, 23, 24 & 25 /A602: All wall surfaces in toilet room to be ceramic tile finish, including the GWB soffit indicated over the shower stall. Shower stall to be acrylic as specified in plumbing drawings.

3.22 Sheet A603: Interior Elevations

a. Elevations 2/A601: Wall protection panel to extend between rightmost corner guard and right end of elevation.

b. Elevations 3/A601: Wall protection panel to extend between leftmost corner guard and left end of elevation.

3.23 Mechanical Drawings:

a. **DELETE ALL** MECHANICAL DRAWINGS dated 6/24/2012. REPLACE with new mechanical drawings dated 8/1/2012 attached. See Section 00 01 15, List of Drawing Sheets for individual sheet numbers and titles.

3.24 Plumbing Drawings:

a. **DELETE ALL** PLUMBING DRAWINGS dated 6/24/2012. REPLACE with new plumbing drawings dated 8/1/2012 attached. See Section 00 01 15, List of Drawing Sheets for individual sheet numbers and titles.

3.25 Fire Protection Drawings:

a. **DELETE ALL** FIRE PROTECTION DRAWINGS dated 6/24/2012. REPLACE with new fire protection drawings dated 8/1/2012 attached. See Section 00 01 15, List of Drawing Sheets for individual sheet numbers and titles.

3.26 Electrical Drawings:

a. **DELETE ALL** ELECTRICAL DRAWINGS dated 6/24/2012. REPLACE with new electrical drawings dated 8/1/2012 attached. See Section 00 01 15, List of Drawing Sheets for individual sheet numbers and titles.

- - - END - - -

SECTION 00 01 10

TABLE OF CONTENTS

--END--

SECTION 00 01 15

LIST OF DRAWING SHEETS

The drawings listed below accompanying this specification from a part of the contract.

COVER SHEET	**-**	**8/1/2012**
CIVIL		
GRADING AND DRAINAGE PLAN	CG-101	6/24/2011
GRADING AND DRAINAGE PLAN	CG-101-ALT	6/24/2011
GENERAL NOTES, ABBREVIATIONS AND SYMBOLS	CI-001	6/24/2011
EXISTING CONDITIONS PLAN	CS-101	6/24/2011
SITE LAYOUT PLAN	CS-102	6/24/2011
SITE LAYOUT PLAN	CS102-ALT	6/24/2011
DRAINAGE DETAILS	CS-501	6/24/2011
WATER DETAILS	CS-502	6/24/2011
UTILITY DETAILS	CS-503	6/24/2011
MISCELLANEOUS DETAILS	CS-504	6/24/2011
EROSION CONTROL NOTES AND DETAILS	CS-505	6/24/2011
UTILITY PLAN	CU-101	6/24/2011
UTILITY PLAN	CU-101-ALT	6/24/2011
ARCHITECTURAL		
ABBREVIATIONS, ADA, CLEARANCES, SIGNAGE & SYMBOLS	A-001	6/10/2011
CODE REVIEW – IBC 2009 & NFPA 101, 2009	A-002	6/10/2011
PARTITION TYPES	A-003	6/10/2011
OVERALL BASEMENT PLAN	A-101	6/10/2011
OVERALL GROUND PLAN	A-102	6/10/2011
OVERALL FIRST FLOOR PLAN	A-103	6/10/2011
OVERALL SECOND FLOOR PLAN	A-104	6/10/2011
OVERALL ROOF PLAN	A-105	6/10/2011
B31 DEMO PLANS	A-110	6/10/2011
B31 BASEMENT & GROUND FLOOR PLAN	A-120	6/10/2011
B31 FIRST & SECOND FLOOR BRIDGE PLANS	A-121	6/10/2011
SPD GROUND FLOOR & FIRST FLOOR PLAN	A-122	6/10/2011
SPD SECOND FLOOR & PENTHOUSE PLAN	A-123	6/10/2011
ROOF PLAN	A-124	6/10/2011
SPD DEDUCT ALTERNATE PLANS	A-125	6/10/2011

B31 BASEMENT & GROUND FLOOR DIMENSION PAN	A-130	6/10/2011
B31 FIRST & SECOND FLOOR BRIDGE DIMENSION PLAN	A-131	6/10/2011
SPD GROUND & FIRST FLOOR DIMENSION PLAN	A-132	6/10/2011
SPD SECOND FLOOR AND PENTHOUSE DIMENSION PLAN	A-133	6/10/2011
SPD DEDUCT ALTERNATE DIMENSIONS PLANS	A-134	6/10/2011
B31 BMNT & GND/SPD GND & PENT. CEILING PLANS	A-140	6/10/2011
B31 FIRST & SECOND FLOOR BRIDGE CEILING PLANS	A-141	6/10/2011
SPD FIRST & SECOND FLOOR CEILING PLAN	A-142	6/10/2011
SPD DEDUCT ALTERNATE CEILING PLANS	**A-143**	**8/1/2012**
B31 BMNT & GND /SPD GND FLR FINISH PLAN	A-150	6/10/2011
B31 FIRST & SECOND FLOOR BRIDGE FINISH PLAN	A-151	6/10/2011
FIRST & SECOND FLOOR FINISH PLAN	A-152	6/10/2011
EQUIPMENT SCHEDULE & EXISTING CONDITIONS	A-160	6/10/2011
SPD EQUIPMENT PLANS	A-161	6/10/2011
STAIR PLANS	A-170	6/10/2011
PARTIAL PLANS	A-171	6/10/2011
FINISH SCHEDULE	A-201	6/10/2011
DOOR SCHEDULE	A-202	6/10/2011
WINDOW SCHEDULE & ELEVATIONS	**A-203**	**8/1/2012**
SOUTH & WEST ELEVATIONS	A-301	6/10/2011
NORTH & EAST ELEVATIONS	A-302	6/10/2011
DEDUCT ALT. ELEVATIONS	A-303	6/10/2011
ELEVATIONS & SECTIONS	A-304	6/10/2011
BUILDING SECTIONS	A-401	6/10/2011
BUILDING SECTIONS	A-402	6/10/2011
BUILDING SECTIONS	A-403	6/10/2011
WALL SECTIONS	A-404	6/10/2011
WALL SECTIONS	A-405	6/10/2011
WALL SECTIONS	A-406	6/10/2011
WALL SECTIONS	**A-407**	6/10/2011
WALL SECTIONS	A-408	6/10/2011
WALL SECTIONS	A-409	6/10/2011
WALL SECTIONS	A-410	6/10/2011
WALL SECTIONS	A-411	6/10/2011
PLAN DETAILS	A-501	6/10/2011
PLAN DETAILS	A-502	6/10/2011
SECTION DETAILS	A-503	6/10/2011

SECTION DETAILS	A-504	6/10/2011
PLAN DETAILS	A-505	6/10/2011
INTERIOR ELEVATIONS	A-601	6/10/2011
INTERIOR ELEVATIONS	A-602	6/10/2011
INTERIOR ELEVATIONS – BRIDGE	A-603	6/10/2011

STRUCTURAL

GENERAL STRUCTUREL NOTES	S-100	6/24/2011
FOUNDATION PLAN-BASEMENT LEVEL	S-101	6/24/2011
FOUNDATIONS/GROUND FLOOR LEVEL FRAMING PLAN	S-102	6/24/2011
FIRST FLOOR FRAMING PLAN	S-103	6/24/2011
SECOND FLOOR FRAMING PLAN	S-104	6/24/2011
PENTHOUSE FLOOR/LOW ROOF FRAMING PLAN	S-105	6/24/2011
PENTHOUSE ROOF FRAMING PLAN	S-106	6/24/2011
FOUNDATION DETAILS	S-200	6/24/2011
FOUNDATION DETAILS	S-201	6/24/2011
FOUNDATION DETAILS	S-202	6/24/2011
TRUSS/BRACE ELEVATIONS	S-300	6/24/2011
COLUMN SCHEDULE	S-301	6/24/2011
FRAMING DETAILS	S-400	6/24/2011
FRAMING DETAILS	S-401	6/24/2011
FRAMING DETAILS	S-402	6/24/2011
FRAMING DETAILS	S-403	6/24/2011
FRAMING DETAILS	S-404	6/24/2011

MECHANICAL

BASEMENT & GROUND FLOOR PLAN – PIPING DEMOLITION	**MD-101**	**8/1/2012**
1ST & 2ND FLOOR PLAN – PIPING AND MECHANICAL DEMO	**MD-102**	**8/1/2012**
BASEMENT FLOOR PLAN – DUCTWORK DEMOLITION	**MD-103**	**8/1/2012**
ROOF PLAN – DUCTWORK DEMOLITION	**MD-104**	**8/1/2012**
MCHANICAL SITE PLAN	**MS-101**	**8/1/2012**
MECHANCIAL SITE PLAN – DEDUCT ALTERNATE	**MS-102**	**8/1/2012**
BASEMENT FLOOR PLAN – PIPING	**M-101**	**8/1/2012**
GROUND FLOOR PLAN – PIPING	**M-102**	**8/1/2012**
FIRST FLOOR PLAN – PIPING AND DUCTWORK	**M-103**	**8/1/2012**
SECOND FLOOR PLAN – PIPING AND DUCTWORK	**M-104**	**8/1/2012**
FIRST & SECOND FLOORO PLAN – PIPING – DUCT ALTERNATE	**M-105**	**8/1/2012**

PENTHOUSE FLOOR PLAN – PIPING	**M-106**	**8/1/2012**
BASEMENT FLOOR PLAN – DUCTWORK	**M-107**	**8/1/2012**
GROUND FLOOR PLAN – DUCTWORK	**M-108**	**8/1/2012**
FIRST FLOOR PLAN –DUCTWORK	**M-109**	**8/1/2012**
FIRST FLOOR PLAN – DUCTWORK	**M-110**	**8/1/2012**
FIRST FLOOR PLAN – DUCTWORK – DEDUCT ALTERNATE	**M-111**	**8/1/2012**
SECOND FLOOR PLAN – DUCTWORK	**M-112**	**8/1/2012**
SECOND FLOOR PLAN – DUCTWORK	**M-113**	**8/1/2012**
SECOND FLOOR PLAN – DUCTWORK – DEDUCT ALTERNATE	**M-114**	**8/1/2012**
PENTHOUSE FLOOR PLANS – DUCTWORK	**M-115**	**8/1/2012**
FIRST AND SECOND FLOOR PLANS – PRESSURIZATION	**M-116**	**8/1/2012**
FIRST AND SECOND FLOOR PLANS – PRESSURIZATION DEDUCT ALTERNATE	**M-117**	**8/1/2012**
PENTHOUSE SECTIONS	**M-301**	**8/1/2012**
MECHANICAL DETAILS	**M-501**	**8/1/2012**
MECHANICAL DETAILS	**M-502**	**8/1/2012**
MECAHNICAL DETAILS	**M-503**	**8/1/2012**
MECHANICAL SCHEDULES	**M-601**	**8/1/2012**
MECHANICAL SCHEDULES	**M-602**	**8/1/2012**
CONTROL DIAGRAMS	**M-701**	**8/1/2012**
HVAC-1E AND HVAC-1S AUTOMATIC TEMPERATURE CONTROLS	**M-702**	**8/1/2012**
HVAC-2 AUTOMATIC TEMPERATURE CONTROLS AND CONTROLS DIAGRAMS	**M-703**	**8/1/2012**
HVAC-2 AUTOMATIC TEMPERATURE CONTROLS AND CONTROLS DIAGRAMS	**M-704**	**8/1/2012**
FIRE PROTECTION		
BASEMENT FLOOR PLAN – FIRE PROTETION OUTLINE	**FP101**	**8/1/2012**
GROUND FLOOR PLAN – FIRE PROTECTION OUTLINE	**FP102**	**8/1/2012**
FIRST FLOOR PLAN – FIRE PROTECTION OUTLINE	**FP103**	**8/1/2012**
FIRST FLOOR PLAN – FIRE PROTECTION OUTLINE – DEDUCT ALTERNATE	**FP104**	**8/1/2012**
SECOND FLOOR PLAN – FIRE PROTECTION OUTLINE	**FP105**	**8/1/2012**
SECOND FLOOR PLAN – FIRE PROTECTION OUTLINE – DEDUCT ALTERNATE	**FP106**	**8/1/2012**
PENTHOUSE FLOOR PLAN – FIRE PROTECTION OUTLINE	**FP107**	**8/1/2012**

PLUMBING

BASEMENT FLOOR PLAN – PLUMBING DEMOLITION	**PD-101**	**8/1/2012**
GROUND FLOOR PLAN – PLUMBING DEMOLITION	**PD-102**	**8/1/2012**
FIRST FLOOR PLAN – PLUMBING DEMOLITION	**PD-103**	**8/1/2012**
SECOND FLOOR PLAN – PLUMBING DEMOLITION	**PD-104**	**8/1/2012**
PLUMBING SCHEDULE, LEGEND AND DETAILS	**P-001**	**8/1/2012**
BASEMENT FLOOR PLAN – PLUMBING	**P-101**	**8/1/2012**
GROUND FLOOR PLAN – PLUMBINIG	**P-102**	**8/1/2012**
FIRST FLOOR PART PLAN – PLUMBING	**P-103**	**8/1/2012**
FIRST FLOOR PART PLAN – PLUMBING	**P-104**	**8/1/2012**
FIRST FLOOR PART PLAN – PLUMBING – DEDUCT ALTERNATE	**P-105**	**8/1/2012**
SECOND FLOOR PART PLAN – PLUMBING	**P-106**	**8/1/2012**
SECOND FLOOR PART PLAN – PLUMBING	**P-107**	**8/1/2012**
BRIDGE CONNECTOR PLANS – PLUMBING	**P-108**	**8/1/2012**
SECOND FLOOR PART PLAN – PLUMBING – DEDUCT ALTERNATE	**P-109**	**8/1/2012**
PENTHOUSE FLOOR PLAN – ELECTRICAL DEMOLITION	**P-110**	**8/1/2012**

ELECTRICAL

BASEMENT FLOOR PLAN – ELECTRICAL DEMOLITION	**ED-101**	**8/1/2012**
GROUDN FLOOR PLAN – ELECTRICAL DEMOLITION	**ED-102**	**8/1/2012**
FIRST FLOOR PLAN – ELECTRICAL DEMOLITION	**ED-103**	**8/1/2012**
SECOND FLOOR PLAN – ELECTRICAL DEMOLITION	**ED-104**	**8/1/2012**
ELECTRICAL SITE PLAN	**ES-101**	**8/1/2012**
ELECTRICAL SITE PLAN DEDUCT ALTERNATE	**ES-102**	**8/1/2012**
ELECTRICAL LEGENDS & NOTS	**E-001**	**8/1/2012**
BASEMENT FLOOR PLAN – LIGHTING	**E-101**	**8/1/2012**
GROUND FLOOR PLAN – LIGHTING	**E-102**	**8/1/2012**
FIRST FLOOR PLANS – LIGHTING	**E-103**	**8/1/2012**
SECOND FLOOR PLAN – LIGHTING	**E-104**	**8/1/2012**
PENTHOUSE PLAN – LIGHTING	**E-105**	**8/1/2012**
BASEMENT FLOOR PLAN – POWER	**E-106**	**8/1/2012**
GROUND FLOOR PLAN – POWER	**E-107**	**8/1/2012**
FIRST FLOOR PLAN – POWER	**E-108**	**8/1/2012**
SECOND FLOOR PLAN – POWER	**E-109**	**8/1/2012**
PENTHOUSE PLAN – POWER	**E-110**	**8/1/2012**
BASEMENT FLOOR PLAN – FIRE ALARM	**E-111**	**8/1/2012**
GROUND FLOOR PLAN – FIRE ALARM	**E-112**	**8/1/2012**

FIRST FLOOR PLANS – FIRE ALARM	**E-113**	**8/1/2012**
SECOND FLOOR PLAN – FIRE ALARM	**E-114**	**8/1/2012**
PENTHOUSE PLAN – FIRE ALARM	**E-115**	**8/1/2012**
ELECTRICAL DETAILS	**E-401**	**8/1/2012**
ELECTRICAL DETAILS	**E-402**	**8/1/2012**
ELECTRICAL ONELINE DIAGRAM	**E-501**	**8/1/2012**
ELECTRICAL PANEL SCHEDULES	**E-601**	**8/1/2012**
ELECTRICAL PANEL SCHEDULES	**E-602**	**8/1/2012**

--END--

SECTION 09 30 13
CERAMIC TILING

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies ceramic and porcelain, terrazzo divider strips, waterproofing membranes for thin-set applications, crack isolation membranes, tile backer board.

1.2 RELATED WORK

A. Sealing of joints where specified: Section 07 92 00, JOINT SEALANTS.

B. Color, texture and pattern of field tile and trim shapes, size of field tile, trim shapes, and color of grout specified: Section 09 06 00, SCHEDULE FOR FINISHES.

C. Metal and resilient edge strips at joints with new resilient flooring, and carpeting: Section 09 65 19, RESILIENT TILE FLOORING Section 09 68 00, CARPETING.

1.3 SUBMITTALS

A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Samples:

1. Base tile, each type, each color, each size.
2. Wall (or wainscot) tile, each color, size and pattern.

C. Product Data:

1. Ceramic tile, marked to show each type, size, and shape required.
2. Cementitious backer unit.
3. Latex-Portland cement mortar and grout.

D. Certification:

1. Master grade, ANSI A137.1.
2. Manufacturer's certificates indicating that the following materials comply with specification requirements:
   a. Chemical resistant mortar and grout (epoxy and furan).
   b. Dry-set Portland cement mortar and grout.
   c. Elastomeric membrane and bond coat.
   d Latex-Portland cement mortar and grout.
   k. Waterproof isolation membrane.

1.4 DELIVERY AND STORAGE

A. Deliver materials in containers with labels legible and intact and grade-seals unbroken.

B. Store material to prevent damage or contamination.

1.5 APPLICABLE PUBLICATIONS

A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in text by basic designation only.

B. American National Standards Institute (ANSI):

A10.20-05.....Safety Requirements for Ceramic Tile, Terrazzo, and Marble Works

A108.1A-05.....Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar

A108.1B-05.....Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with dry-Set or latex-Portland Cement Mortar

A108.4-05.....Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile Setting Epoxy Adhesives

A108.5-05.....Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar

A108.6-05.....Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and Grouting Epoxy

A108.10-05.....Installation of Grout in Tilework

A108.11-05.....Interior Installation of Cementitious Backer Units

A108.13-05.....Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone

A118.1-05.....Dry-Set Portland Cement Mortar

A118.4-05.....Latex-Portland Cement Mortar

A118.6-05.....Standard Cement Grouts for Tile Installation

A118.9-05.....Cementitious Backer Units

A118.10-05.....Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation

A137.1-88.....Ceramic Tile

C. American Society For Testing And Materials (ASTM):

C109/C109M-07.....Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 inch. or [50-mm] Cube Specimens)

C348-02.....Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars

C627-93(R2007).....Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester

C1002-07.....Steel Self-Piercing Tapping Screws for the Application of Panel Products

C1027-99(R2004).....Determining “Visible Abrasion Resistance on Glazed Ceramic Tile”

C1028-07.....Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method

C1127-01.....Standard Guide for Use of High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane with an Integral Wearing Surface

D. Marble Institute of America (MIA): Design Manual III-2007

E. Tile Council of America, Inc. (TCA):

2007.....Handbook for Ceramic Tile Installation

PART 2 - PRODUCTS

2.1 TILE

A. Comply with ANSI A137.1, Standard Grade, except as modified:

1. Inspection procedures listed under the Appendix of ANSI A137.1.
2. Factory Blending: For tile with color variations, within the ranges selected during sample submittals blend tile in the factory and package so tile units taken from one package show the same range in colors as those taken from other packages and match approved samples.

B. Glazed Wall Tile: Cushion edges, glazing, as specified in Section 09 06 00, SCHEDULE FOR FINISHES.

C. Trim Shapes:

1. Conform to applicable requirements of adjoining floor and wall tile.
2. Use slip resistant trim shapes for horizontal surfaces of showers, shower curbs, drying area curbs, and seats.

3. Use trim shapes sizes conforming to size of adjoining field wall tile unless detailed or specified otherwise in Section 09 06 00, SCHEDULE FOR FINISHES.
4. Internal and External Corners:
   a. Square internal and external corner joints are not acceptable.
   b. External corners including edges: Use bullnose shapes.
   c. Internal corners: Use cove shapes.
   d. Base to floor internal corners: Use special shapes providing integral cove vertical and horizontal joint.
   e. Base to floor external corners: Use special shapes providing bullnose vertical edge with integral cove horizontal joint. Use stop at bottom of openings having bullnose return to wall.
   f. Wall top edge internal corners: Use special shapes providing integral cove vertical joint with bullnose top edge.
   g. Wall top edge external corners: Use special shapes providing bullnose vertical and horizontal joint edge.
   h. For unglazed ceramic mosaic and glazed wall tile installed in Portland cement mortar setting bed, use cove and bullnose shapes as applicable. When ceramic mosaic wall and base tile is required, use C Series cove and bullnose shapes.
   i. For unglazed ceramic mosaic and glazed wall tile installed in dry-set Portland cement mortar, latex-Portland cement mortar, and organic adhesive (thin set methods), use cove and surface bullnose shapes as applicable.
   j. Provide cove and bullnose shapes and required to complete tile work.

2.2 CEMENTITIOUS BACKER UNITS

A. Use behind all wall tile locations.
B. ANSI A118.9.
C. Use Cementitious backer units in maximum available lengths.
D. Backer unit meet or exceed the following additional physical properties:

Property	Test Method	Value
Water absorption	ASTM C948	Less than 20 percent by weight

2.3 JOINT MATERIALS FOR CEMENTITIOUS BACKER UNITS

A. Reinforcing Tape: Vinyl coated woven glass fiber mesh tape, open weave, 50 mm (2 inches) wide. Tape with pressure sensitive adhesive backing will not be permitted.

B. Tape Embedding Material: Latex-Portland cement mortar complying with ANSI A118.4.

C. Joint material, including reinforcing tape, and tape embedding material, shall be as specifically recommended by the backer unit manufacturer.

2.4 FASTENERS

A. Screws for Cementitious Backer Units.

1. Standard screws for gypsum board are not acceptable.
2. Minimum 11 mm (7/16 inch) diameter head, corrosion resistant coated, with washers.
3. ASTM C954 for steel 1 mm (0.033 inch) thick.
4. ASTM C1002 for steel framing less than 0.0329 inch thick.

B. Washers: Galvanized steel, 13 mm (1/2 inch) minimum diameter.

2.5 SETTING MATERIALS OR BOND COATS

A. Conform to TCA Handbook for Ceramic Tile Installation.

B. Latex-Portland Cement Mortar: ANSI A118.4.

1. For wall applications, provide non-sagging, latex-Portland cement mortar complying with ANSI A118.4.
2. Prepackaged Dry-Mortar Mix: Factory-prepared mixture of Portland cement; dry, redispersible, ethylene vinyl acetate additive; and other ingredients to which only water needs to be added at Project site.

2.6 GROUTING MATERIALS

A. Coloring Pigments:

1. Pure mineral pigments, limeproof and nonfading, complying with ASTM C979.
2. Add coloring pigments to grout by the manufacturer.
3. Job colored grout is not acceptable.
4. Use is required in Commercial Portland Cement Grout, Dry-Set Grout, and Latex-Portland Cement Grout.

B. Latex-Portland Cement Grout: ANSI A118.6 color as specified.

1. Unsanded grout mixture for joints 3.2 mm (1/8 inch) and narrower.

2.7 MARBLE

A. Soundness Classification in accordance with MIA Design Manual III Groups.

B. Thresholds:

1. Group A, Minimum abrasive hardness (Ha) of 10.0 per ASTM C241.
2. Honed finish on exposed faces.
3. Thickness and contour as shown.
4. Fabricate from one piece without holes, cracks, or open seams; full depth of wall or frame opening by full width of wall or frame opening; 19 mm (3/4-inch) minimum thickness and 6 mm (1/4-inch) minimum thickness at beveled edge.
5. Set not more than 13 mm (1/2-inch) above adjoining finished floor surfaces, with transition edges beveled on a slope of no greater than 1:2. On existing floor slabs provide 13 mm (1/2-inch) above ceramic tile surface with bevel edge joint top flush with adjacent floor.
6. One piece full width of door opening. Notch thresholds to match profile of door jambs.

2.8 WATER

Clean, potable and free from salts and other injurious elements to mortar and grout materials.

2.9 CLEANING COMPOUNDS

A. Specifically designed for cleaning masonry and concrete and which will not prevent bond of subsequent tile setting materials including patching and leveling compounds and elastomeric waterproofing membrane and coat.

PART 3 - EXECUTION

3.1 ENVIRONMENTAL REQUIREMENTS

A. Maintain ambient temperature of work areas at not less than 16 degree C (60 degrees F), without interruption, for not less than 24 hours before installation and not less than three days after installation.

B. Maintain higher temperatures for a longer period of time where required by manufacturer's recommendation and ANSI Specifications for installation.

C. Do not install tile when the temperature is above 38 degrees C (100 degrees F).

D. Do not install materials when the temperature of the substrate is below 16 degrees C (60 degrees F).

E. Do not allow temperature to fall below 10 degrees C (50 degrees F) after fourth day of completion of tile work.

3.2 ALLOWABLE TOLERANCE

A. Variation in Plane of Wall Surfaces:
   1. Not more than 1 in 400 (1/4 inch in eight feet) from required plane where Portland cement mortar setting bed is used.
   2. Not more than 1 in 800 (1/8 inch in eight feet) where dry-set or latex-Portland cement mortar or organic adhesive setting materials is used.

3.3 SURFACE PREPARATION

A. Patching and Leveling:
   1. Mix and apply patching and leveling compound in accordance with manufacturer's instructions.
   2. Fill holes and cracks and align concrete floors that are out of required plane with patching and leveling compound.
      a. Thickness of compound as required to bring finish tile system to elevation shown.
      b. Float finish, except finish smooth for elastomeric waterproofing.
      c. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
   3. Apply patching and leveling compound to concrete and masonry wall surfaces that are out of required plane.
   4. Apply leveling coats of material compatible with wall surface and tile setting material to wall surfaces, other than concrete and masonry that are out of required plane.

B. Walls:
   1. In showers or other wet areas cover studs with polyethylene sheet.
   2. Apply patching and leveling compound to concrete and masonry surfaces that are out of required plane.
   3. Apply leveling coats of material compatible with wall surface and tile setting material to wall surfaces, other than concrete and masonry that are out of required plane.

3.4 CEMENTITIOUS BACKER UNITS

A. Remove polyethylene wrapping from cementitious backer units and separate to allow for air circulation. Allow moisture content of backer units to dry down to a maximum of 35 percent before applying joint treatment and tile.

B. Install in accordance with ANSI A108.11 except as specified otherwise.

C. Install units horizontally or vertically to minimize joints with end joints over framing members. Units with rounded edges; face rounded edge away from studs to form a V joint for joint treatment.

D. Secure cementitious backer units to each framing member with screws spaced not more than 200 mm (eight inches) on center and not closer than 13 mm (1/2 inch) from the edge of the backer unit or as recommended by backer unit manufacturer. Install screws so that the screw heads are flush with the surface of the backer unit.

E. Where backer unit joins shower pans or waterproofing, lap backer unit over turned up waterproof system. Install fasteners only through top one-inch of turned up waterproof systems.

F. Do not install joint treatment for seven days after installation of cementitious backer unit.

G. Joint Treatment:

1. Fill horizontal and vertical joints and corners with latex-Portland cement mortar. Apply fiberglass tape over joints and corners and embed with same mortar.
2. Leave 6 mm (1/4 inch) space for sealant at lips of tubs, sinks, or other plumbing receptors.

3.5 MARBLE

A. Secure thresholds and stools in position with minimum of two stainless steel dowels.

B. Set in dry-set Portland cement mortar or latex-Portland cement mortar bond coat.

C. Set threshold to finish 12mm (1/2 inch) above ceramic tile floor unless shown otherwise, with bevel edge joint top flush with adjacent floor similar to TCA detail TR611-02.

3.6 CERAMIC TILE - GENERAL

A. Comply with ANSI A108 series of tile installation standards in "Specifications for Installation of Ceramic Tile" applicable to methods of installation.

B. Comply with TCA Installation Guidelines:

C. Setting Beds or Bond Coats:

1. Set wall tile installed over concrete backer board in latex-Portland cement mortar, ANSI A108.1B.
2. Set trim shapes in same material specified for setting adjoining tile.

D. Workmanship:

1. Lay out tile work so that no tile less than one-half full size is used. Make all cuts on the outer edge of the field.
2. Set tile firmly in place with finish surfaces in true planes. Align tile flush with adjacent tile unless shown otherwise.
3. Form intersections and returns accurately.
4. Cut and drill tile neatly without marring surface.
5. Cut edges of tile abutting penetrations, finish, or built-in items:
   a. Fit tile closely around electrical outlets, piping, fixtures and fittings, so that plates, escutcheons, collars and flanges will overlap cut edge of tile.
   b. Seal tile joints water tight as specified in Section 07 92 00, JOINT SEALANTS, around electrical outlets, piping fixtures and fittings before cover plates and escutcheons are set in place.
6. Completed work shall be free from hollow sounding areas and loose, cracked or defective tile.
7. Remove and reset tiles that are out of plane or misaligned.
8. Walls:
   a. Cover walls and partitions, including pilasters, furred areas, and freestanding columns from floor to ceiling, or from floor to nominal wainscot heights shown with tile.
   b. Finish reveals of openings with tile, except where other finish materials are shown or specified.
   c. At window openings, provide tile stools and reveals, except where other finish materials are shown or specified.
   d. Finish wall surfaces behind and at sides of casework and equipment, except those units mounted in wall recesses, with same tile as scheduled for room proper.
9. Joints:
   a. Keep all joints in line, straight, level, perpendicular and of even width unless shown otherwise.
   b. Make joints 2 mm (1/16 inch) wide for glazed wall tile and mosaic tile work.
   c. Make joints in quarry tile work not less than 6 mm (1/4 inch) nor more than 9 mm (3/8 inch) wide. Finish joints flush with surface of tile.
   d. Make joints in Paver tile, porcelain type; maximum 3 mm (1/8 inch) wide.

10. Back Buttering: For installations indicated below, obtain 100 percent mortar coverage by complying with applicable special requirements for back buttering of tile in referenced ANSI A108 series of tile installation standards:
    a. Tile wall installations in wet areas, including showers, tub enclosures, laundries and swimming pools.
    b. Tile installed with chemical-resistant mortars and grouts.
    c. Tile wall installations composed of tiles 200 by 200 mm (8 by 8 inches or larger.
    d. Exterior tile wall installations.

3.7 CERAMIC TILE INSTALLED WITH PORTLAND CEMENT MORTAR

A. Mortar Mixes for Floor, Wall And Base Tile including Showers: ANSI A108.1.except specified otherwise.

B. Installing Wall and Base Tile: ANSI A108.1, except specified otherwise.

C. Installing Floor Tile: ANSI A108.1, except as specified otherwise. Slope mortar beds to floor drains a minimum of 1 in 100 (1/8 inch per foot).

3.8 THIN SET CERAMIC AND PORCELAIN TILE INSTALLED WITH DRY-SET PORTLAND CEMENT AND LATEX-PORTLAND CEMENT MORTAR

A. Installation of Tile: ANSI A108.5, except as specified otherwise.

B. Slope tile work to drains not less than 1 in 100 (1/8 inch per foot).

3.9 GROUTING

A. Grout Type and Location:
    1. Grout for glazed wall and base tile, paver tile and unglazed mosaic tile: Portland cement grout, latex-Portland cement grout, dry-set grout, or commercial Portland cement grout.
    2. Grout for quarry tile floor and base:

B. Workmanship:
    1. Install and cure grout in accordance with the applicable standard.
    2. Portland Cement grout: ANSI A108.10.

3.10 MOVEMENT JOINTS

A. Prepare tile expansion, isolation, construction and contraction joints for installation of sealant. Refer to Section 07 92 00, JOINT SEALANTS.

B. TCA details EJ 171-02.

C. At expansion joints, rake out joint full depth of tile and setting bed and mortar bed. Do not cut waterproof or isolation membrane.

3.11 CLEANING

A. Thoroughly sponge and wash tile. Polish glazed surfaces with clean dry cloths.

B. Methods and materials used shall not damage or impair appearance of tile surfaces.

C. The use of acid or acid cleaners on glazed tile surfaces is prohibited.

D. Clean tile grouted with epoxy, furan and commercial Portland cement grout and tile set in elastomeric bond coat as recommended by the manufacturer of the grout and bond coat.

3.12 PROTECTION

A. Keep traffic off tile floor, until grout and setting material is firmly set and cured.

B. Where traffic occurs over tile floor, cover tile floor with not less than 9 mm (3/8 inch) thick plywood, wood particle board, or hardboard securely taped in place. Do not remove protective cover until time for final inspection. Clean tile of any tape, adhesive and stains.

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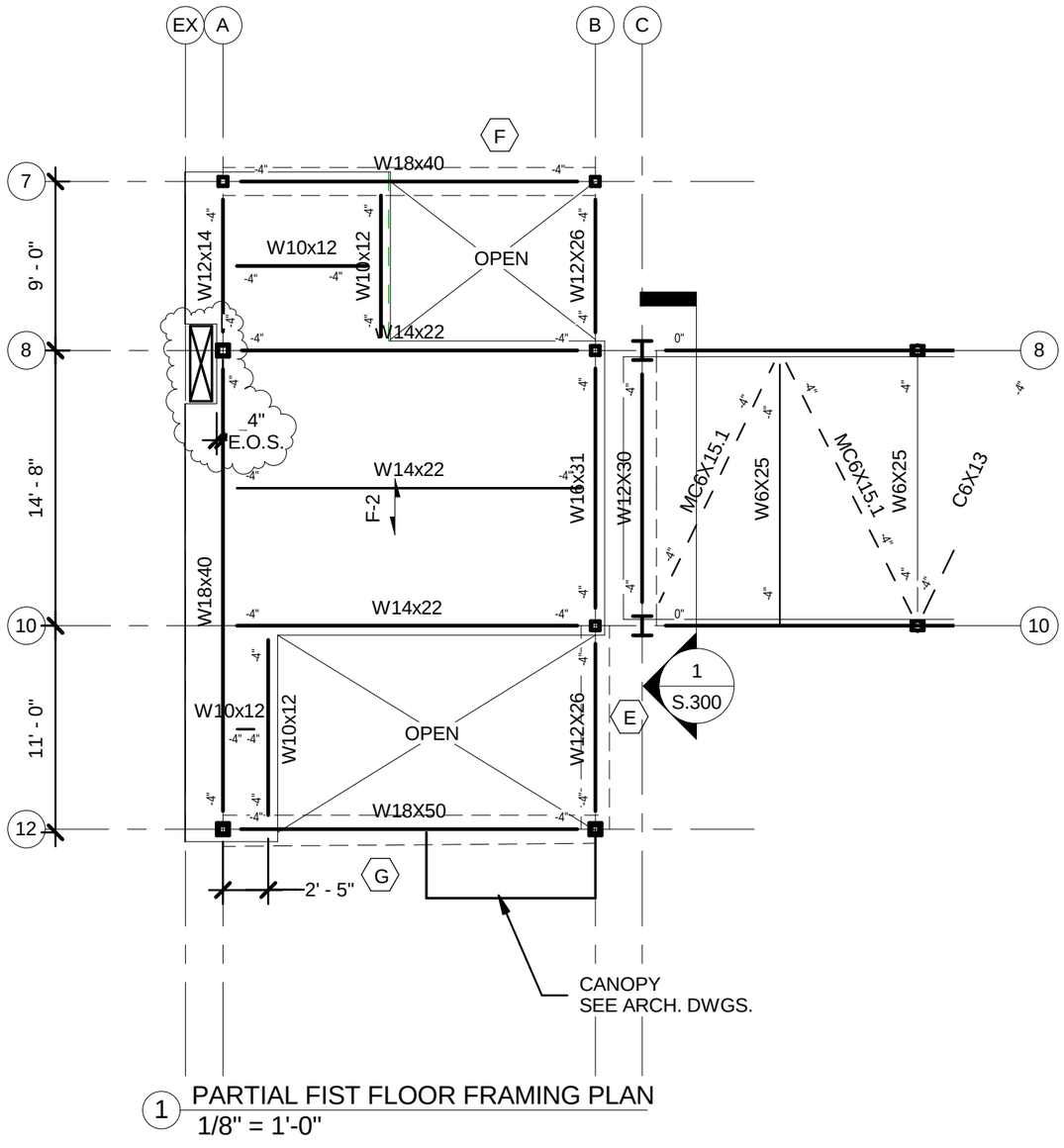
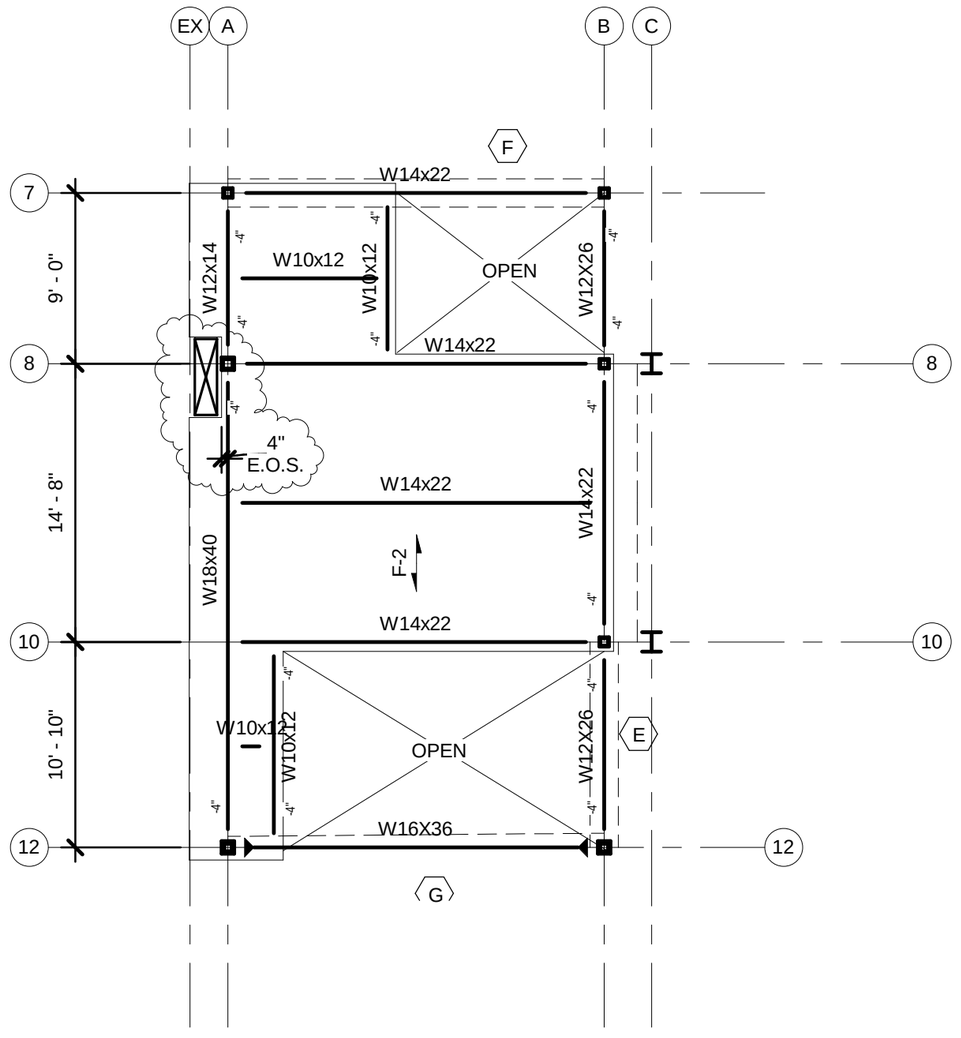


1 PARTIAL FIST FLOOR FRAMING PLAN
1/8" = 1'-0"



2 PARTIAL GROUND FLR FRAMING PLAN
1/8" = 1'-0"

TFM Structural Engineers
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PARTIAL FRAMING PLANS

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	82482.00	SKS-1
DATE	SCALE	DR. BY
07/31/12	1/8" = 1'-0"	JMD

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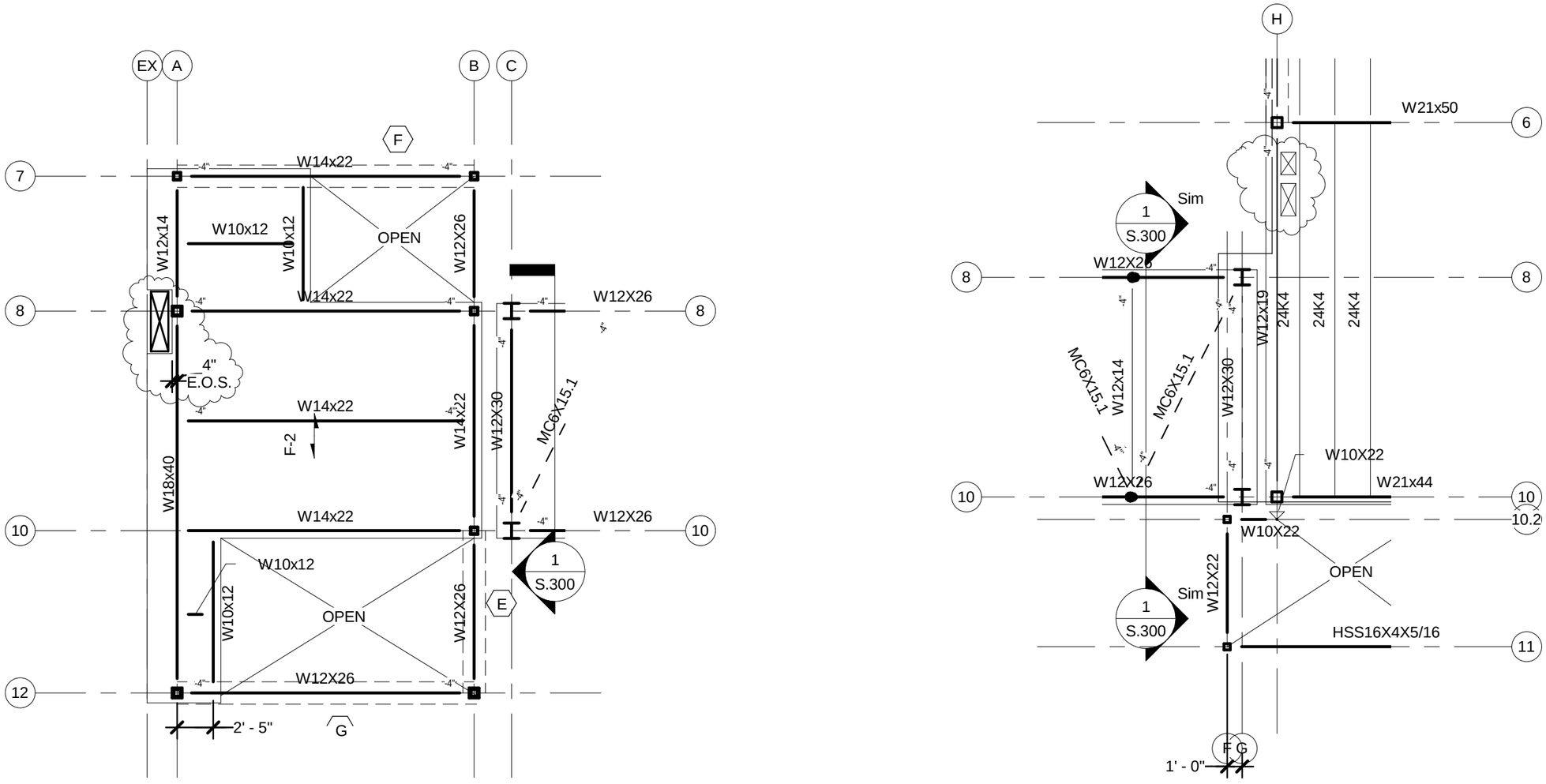

1 SECOND FLOOR SKS-2
1/8" = 1'-0"

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PARTIAL 2ND FLOOR FRAMING PLANS

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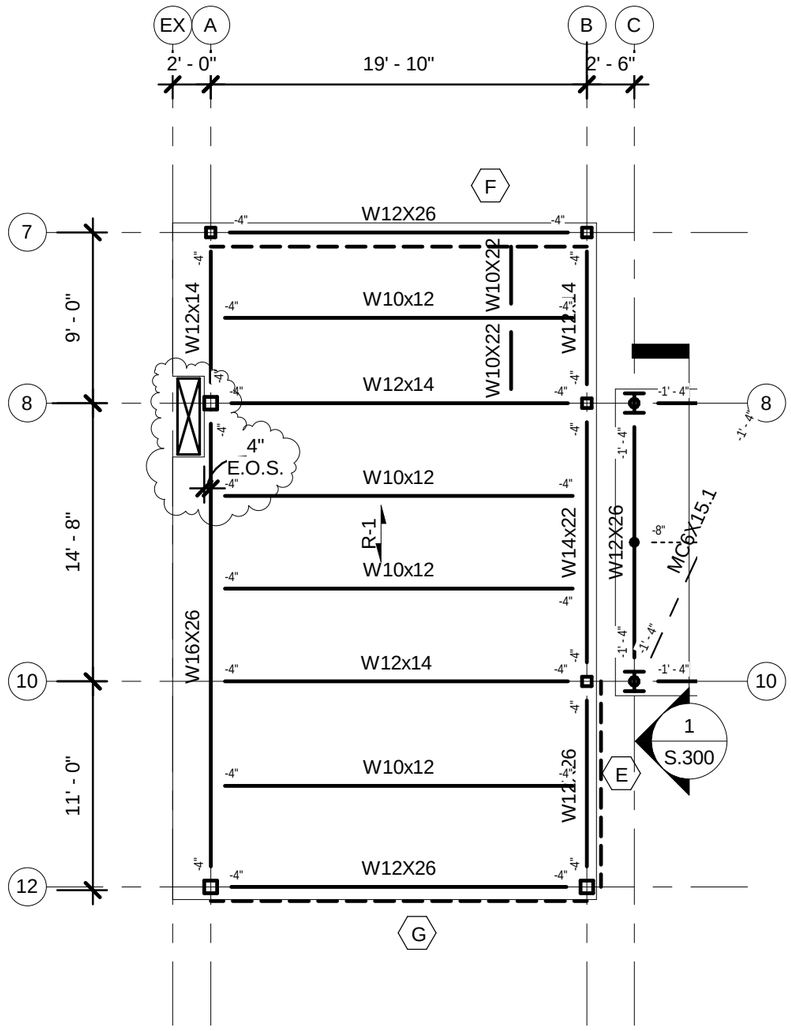

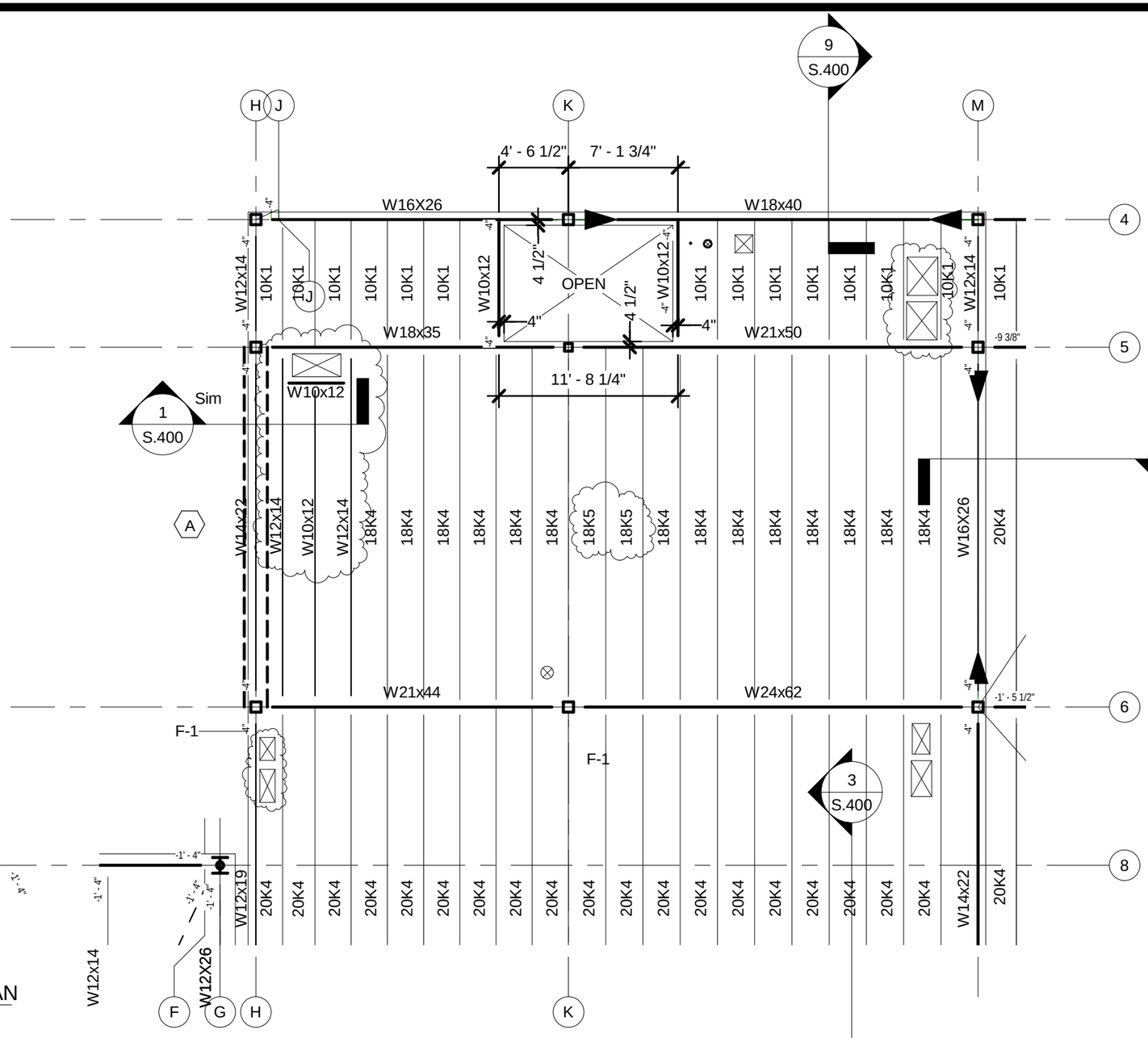

2 PARTIAL PENTHOUSE FRAMING PLAN
1/8" = 1'-0"

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PARTIAL PENTHOUSE FRAMING PLAN

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