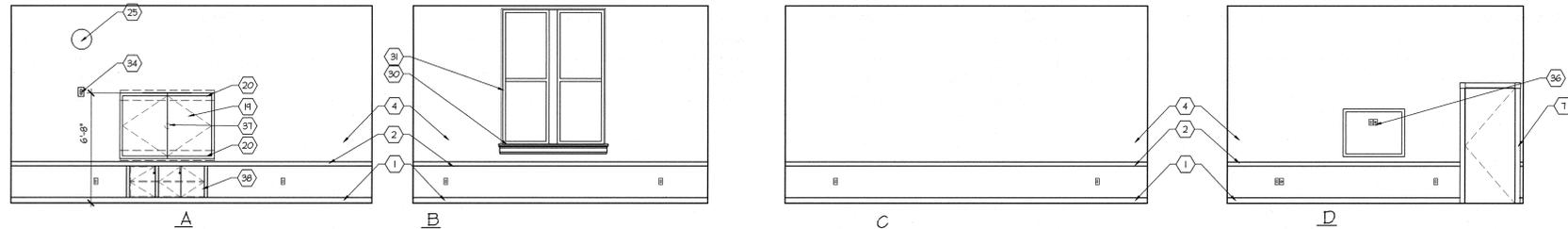


**E1** SECOND. ED. CHAIR RM. #205

1/4"=1'-0"

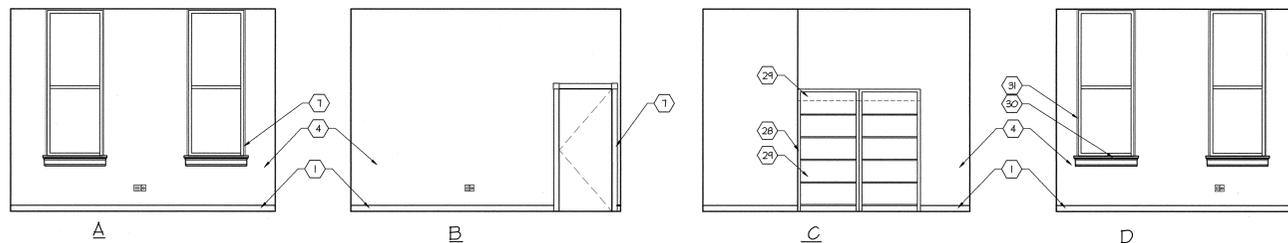
AE404-D1-48



**D1** DIST. LEARNING GRAD. SEMINAR RM. # 304

1/4"=1'-0"

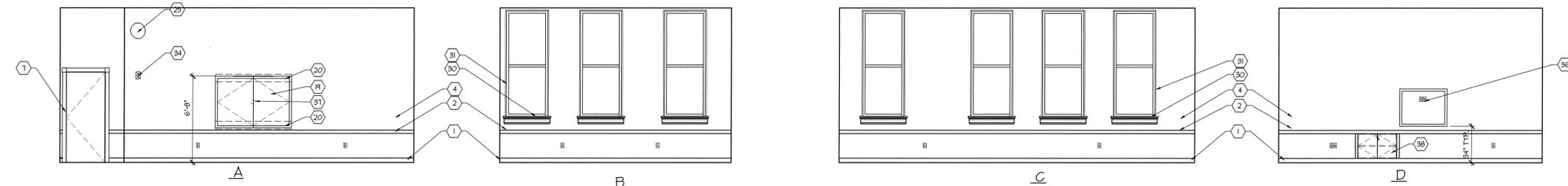
AE404-D1-48



**C1** ASSOC. DEAN RM. #219

1/4"=1'-0"

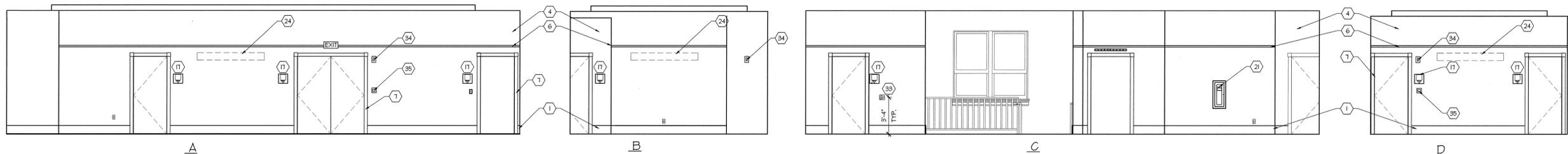
AE404-C1-48



**B1** DIST. LEARNING GRAD. SEMINAR RM. # 305

1/4"=1'-0"

AE404-B1-48



**A1** RECEIPT./WAITING RM. #222

1/4"=1'-0"

AE404-A1-48

**INTERIOR KEY NOTES**

1. BASE - SEE FINISH SCHEDULE AF101
2. 3" CHAIR RAIL - SEE A1/A101 FOR PROFILE INFORMATION.
3. BUILDING DIRECTORY - HOOD BLOCKING REQUIRED.
4. PAINTED GYPSUM BOARD - SEE FINISH SCHEDULE.
5. LIGHT FIXTURE - SEE ELECTRICAL DWGS.
6. 1 1/2" PICTURE RAIL. SEE B1/A101
7. DOOR A/HINDOH CASING - SEE B3/A101 FOR PROFILE INFORMATION.
8. HALL FINISH - SEE FINISH SCHEDULE.
9. NOT USED
10. 3 1/2" BASE - SEE FINISH SCHEDULE FOR PROFILE INFORMATION.
11. COUNTERTOP WITH 4" BACKSPASH. SEE D4/A503
12. BASE CABINET.
13. HALL CABINET. 12" DEEP
14. REFRIGERATOR.
15. PAINTED COUNTERTOP SUPPORT, COLOR BY ARCHITECT. SEE DETAIL D4/A503.
16. LAMINATE END PANEL - FINISHED BOTH SIDES.

17. ADA SIGNAGE - SEE DETAIL D3/A101 & A601 FOR SCHEDULE
18. CEILING MOUNTED PROJECTION SCREEN
19. WALL MOUNTED VISUAL DISPLAY CONFERENCE UNIT - SEE 10X10 (NIC)
20. HOOD BLOCKING FOR DISPLAY BOARD - SEE MFG. REQUIREMENTS.
21. SB1-RECESSED FIRE EXTINGUISHER CABINET.
22. FUTURE SURVEILLANCE CAMERA. COORDINATE W/ ELECTRICAL FOR CONDUIT REQUIREMENTS.
23. WALL MOUNTED TEMPERATURE SENSOR @ 48" ABOVE F.F. - SEE ME103.
24. 2" X 8" BLOCKING FOR FUTURE ART.
25. SYSTEM CLOCK - COORD. WITH ELECTRICAL.
26. 4" RUBBER BASE (SEE FINISH SCHEDULE AF101)
27. 12" X 4" WHITE MARKER BOARD.
28. 3'-6" X 1'-0" P-LAM CLAD BOOKSHELVES W/ ADJUSTABLE MELAMINE CLAD SHELVES (NIC)
29. 1 X 8 WOOD BLOCKING FOR BOOKSHELVES
30. HOOD HINDOH SILL & SKIRT. SEE E2/E3/A101
31. CONTINUOUS RADIUS GYPSUM BOARD EDGE.
32. ELECTRONIC SCROLLING MARQUEE. COORDINATE WITH ELECTRICAL DRAWINGS
33. AUTOMATIC DOOR OPENER EACH SIDE OF DOOR
34. FIRE ALARM HORN/STROBE LIGHT. SEE ELECTRICAL.
35. MANUAL FIRE ALARM STATION
36. RECEPTACLE & TV OUTLET FOR 52" DIAGONAL FLAT SCREEN MONITOR.
37. STUD OUT FOR FUTURE "SMARTBOARD"
38. LOCKABLE CONTROL CABINET.
39. TRACK LIGHTING. SEE ELECTRICAL.

**GENERAL NOTES**

1. ALL EXPOSED SURFACES ARE TO BE FINISHED.
2. SEE FINISH SCHEDULE FOR BASE INFORMATION.
3. ALL TOILET ACCESSORIES ARE TO BE MOUNTED ACCORDING TO ANSI A117.1 STANDARDS.
4. SEE FLOOR PLAN AND SHEET A601 FOR DOOR AND HINDOH NOTES.

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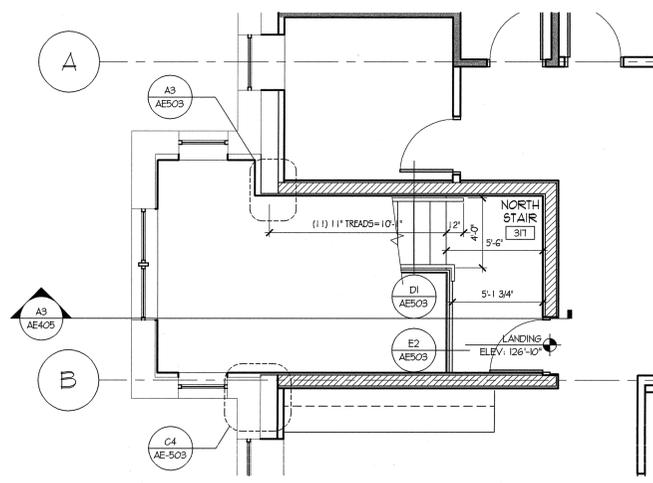
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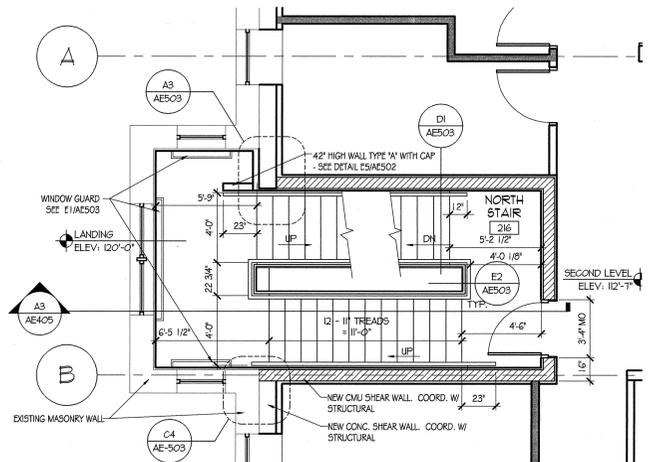
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CD 100%	7/21/04
DD Submittal	7/12/04
ARCHITECT PROJECT NO.:	B04-012
DFCM PROJECT NO.:	03234730

INTERIOR  
ELEVATIONS

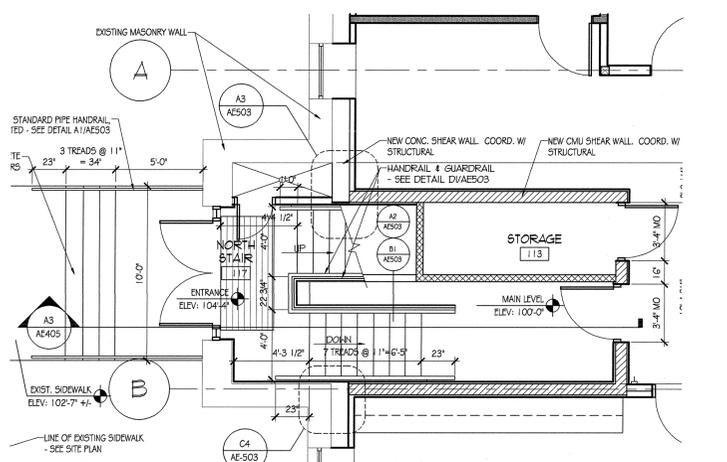
**AE404**



THIRD LEVEL STAIR PLAN

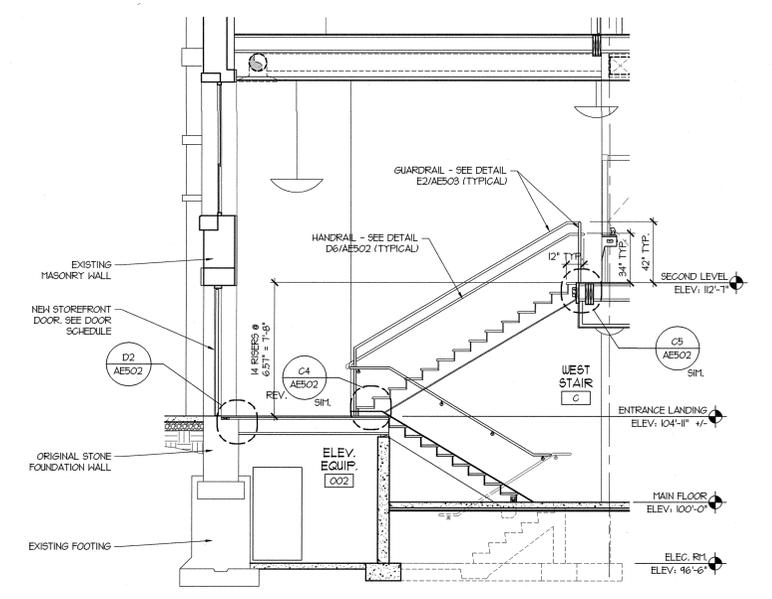


SECOND LEVEL STAIR PLAN

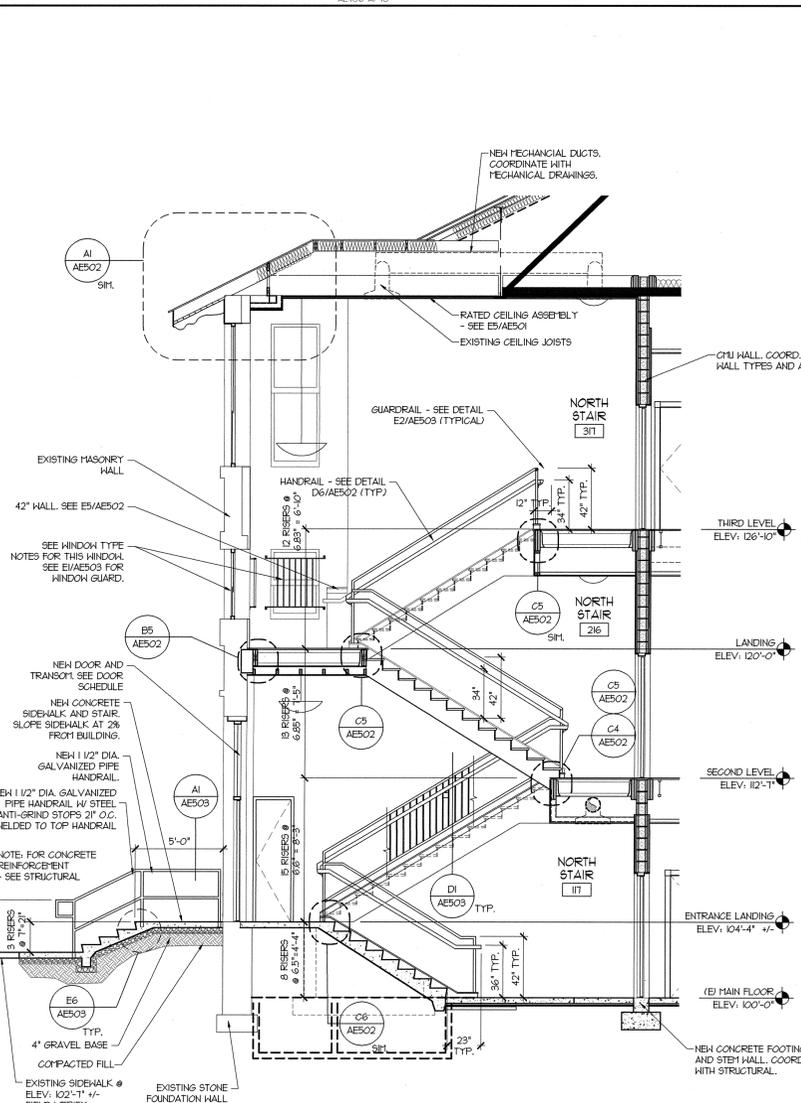


MAIN LEVEL STAIR PLAN

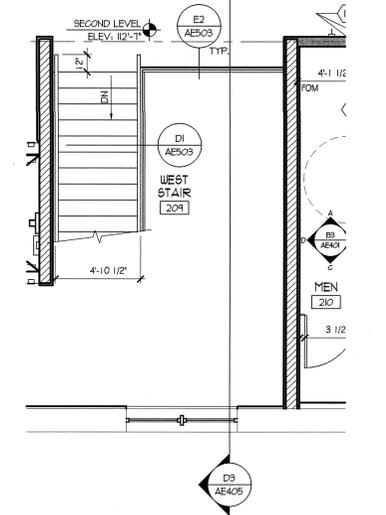
**A1 ENLARGED NORTH STAIR PLAN**  
1/4" = 1'-0"



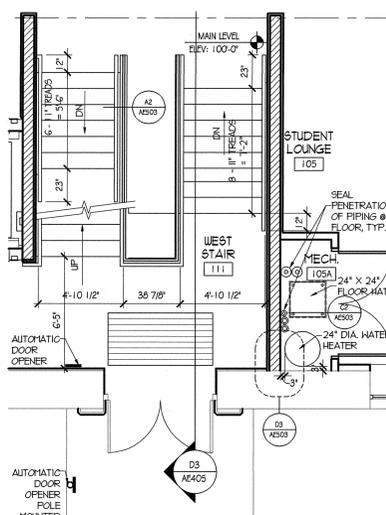
**D3 STAIR SECTION - WEST**  
1/4" = 1'-0"



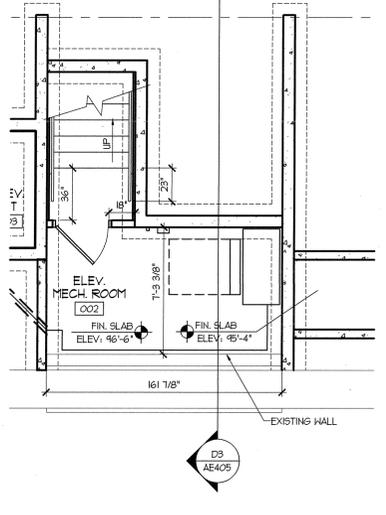
**A3 STAIR SECTION - NORTH**  
1/4" = 1'-0"



SECOND LEVEL STAIR PLAN

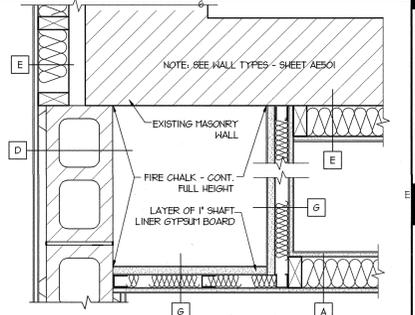


MAIN LEVEL STAIR PLAN & MECHANICAL ROOM

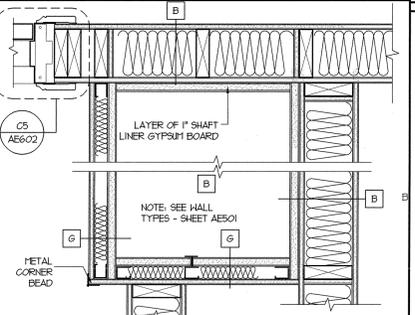


BASEMENT LEVEL STAIR & ELEVATOR MECHANICAL ROOM

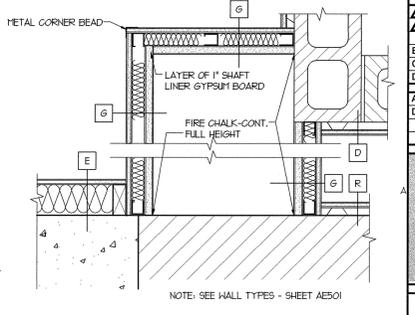
**A5 STAIR SECTION - WEST**  
1/4" = 1'-0"



**E6 SHAFT 3.2 (2.2, 3.1, 2.1) SIM**  
1/2" = 1'-0"



**B6 ENLARGED SHAFT 2.3 (3.3) SIM**  
1/2" = 1'-0"



**A6 ENLARGED SHAFT 2.4 (3.4) SIM**  
1/2" = 1'-0"

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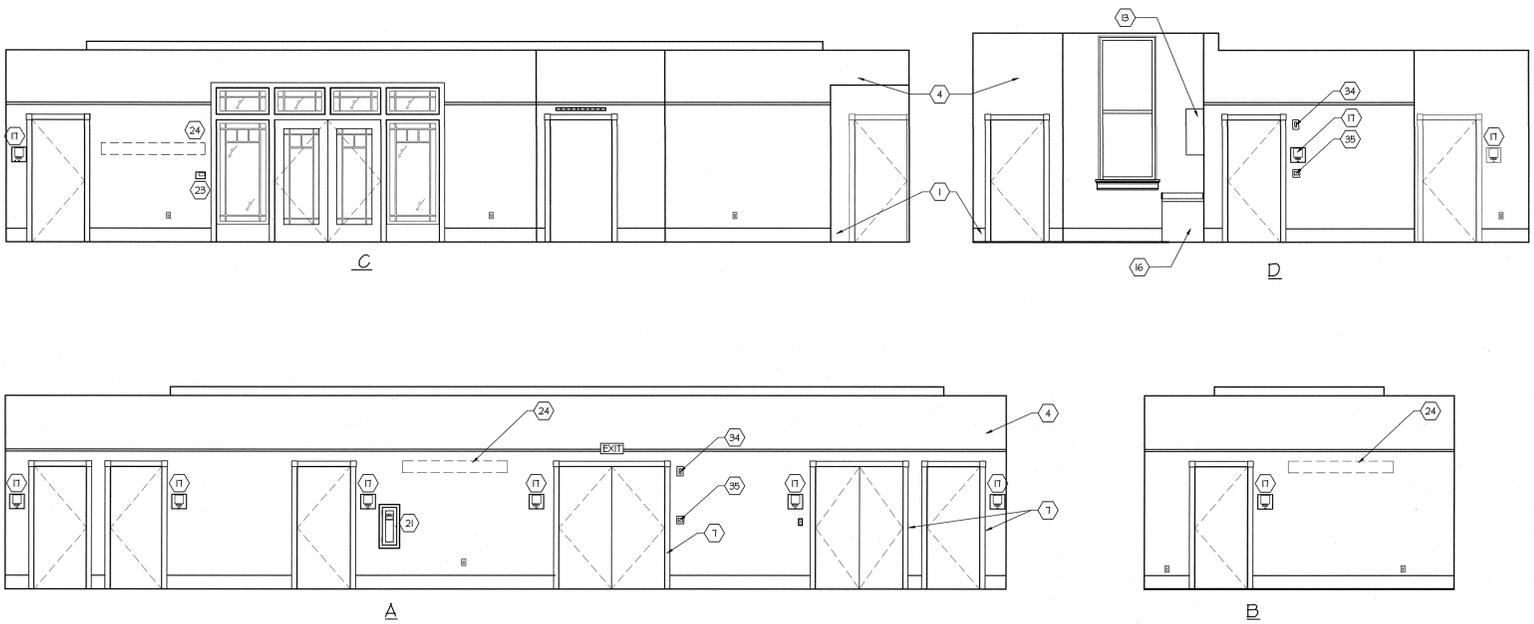
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BID DOCUMENT 1/16/06  
CD 100% 7/21/04  
DD Submittal 7/12/04  
ARCHITECT PROJECT NO.: B04-012  
DFCM PROJECT NO.: 03234730  
DTN

ENLARGED  
STAIR PLANS  
& STAIR SECTIONS

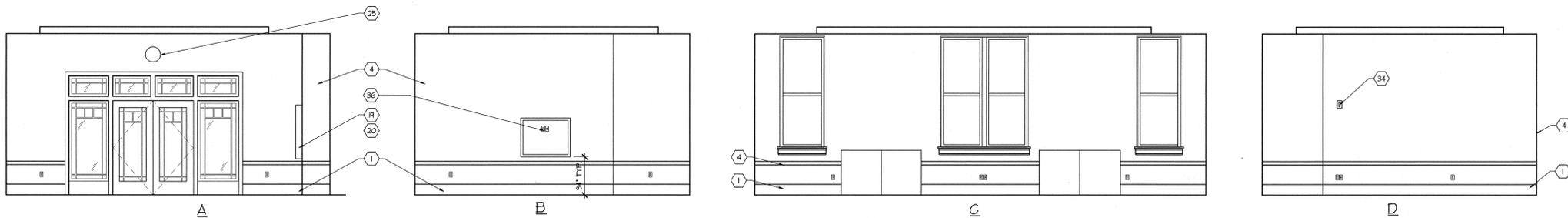
**AE405**





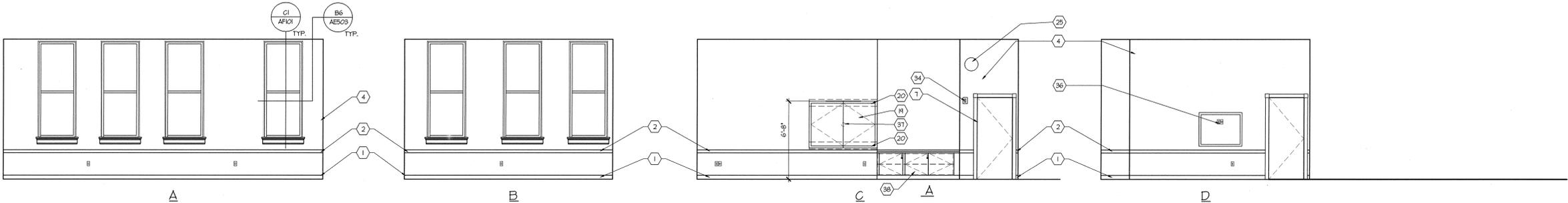
**DI RECEPT/WAITING RM. #319**  
1/4"=1'-0"

AE404A-DI-48



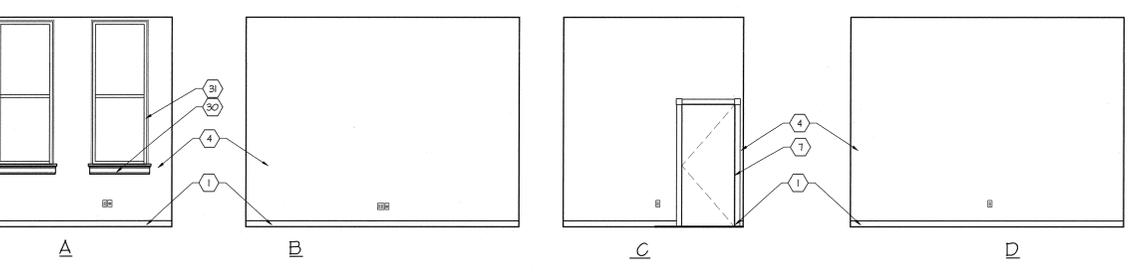
**CI DEAN'S CONF. & N GATE DOC. RM #306**  
1/4"=1'-0"

AE404A-CI-48



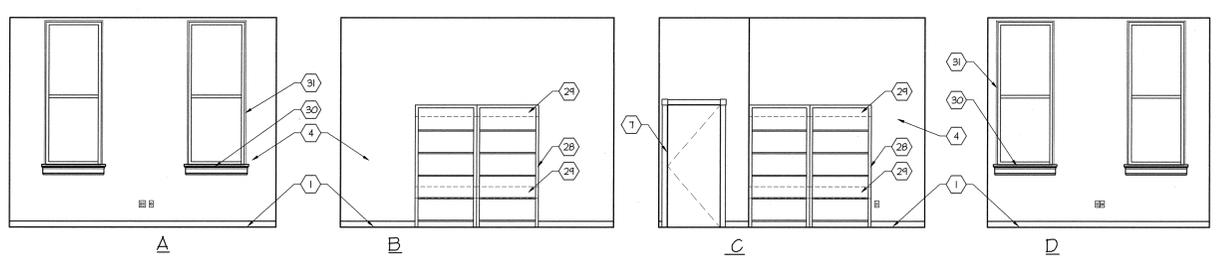
**BI DIST. LEARNING GRAD. SEMINAR RM. # 303**  
1/4"=1'-0"

AE404A-BI-48



**AI GRAD. ADVISOR RM. #316**  
1/4"=1'-0"

AE404-AI-48



**A4 GRAD. EDU. CHAIR RM. #315**  
1/4"=1'-0"

AE404-A4-48

**INTERIOR KEY NOTES**

1. BASE - SEE FINISH SCHEDULE AF101
2. 3" CHAIR RAIL - SEE A1/AF101 FOR PROFILE INFORMATION.
3. BUILDING DIRECTORY, HOOD BLOCKING REQUIRED.
4. PAINTED GYPSUM BOARD - SEE FINISH SCHEDULE.
5. LIGHT FIXTURE - SEE ELECTRICAL DWGS.
6. 1 1/2" PICTURE RAIL. SEE B1/AF101
7. DOOR/HINDON CASING - SEE B3/AF101 FOR PROFILE INFORMATION.
8. HALL FINISH - SEE FINISH SCHEDULE.
9. NOT USED
10. 3 1/2" BASE - SEE FINISH SCHEDULE FOR PROFILE INFORMATION.
11. COUNTERTOP WITH 4" BACKSLASH. SEE D4/AE503
12. BASE CABINET.
13. HALL CABINET. 12" DEEP
14. REFRIGERATOR.
15. PAINTED COUNTERTOP SUPPORT, COLOR BY ARCHITECT. SEE DETAIL D4/AE503.
16. LAMINATE END PANEL - FINISHED BOTH SIDES.
17. ADA SIGNAGE - SEE DETAIL D3/AF101 & AE601 FOR SCHEDULE
18. CEILING MOUNTED PROJECTION SCREEN
19. WALL MOUNTED VISUAL DISPLAY CONFERENCE UNIT - SEE 1001 (NIC)
20. HOOD BLOCKING FOR DISPLAY BOARD - SEE MFG. REQUIREMENTS.
21. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
22. FUTURE SURVEILLANCE CAMERA. COORDINATE W/ ELECTRICAL FOR CONDUIT REQUIREMENTS.
23. HALL MOUNTED TEMPERATURE SENSOR @ 48" ABOVE F.F. - SEE H1003.
24. 2" X 8" BLOCKING FOR FUTURE ART.
25. SYSTEM CLOCK - COORD. WITH ELECTRICAL.
26. 4" RUBBER BASE (SEE FINISH SCHEDULE AF101)
27. 12" X 4" WHITE MARKER BOARD.
28. 3'-6" X 7'-0" P-LAM CLAD BOOKSHELVES W/ ADJUSTABLE PELAMINE CLAD SHELVES (NIC)
29. 1 X 8 WOOD BLOCKING FOR BOOKSHELVES
30. HOOD HINDON SILL & SKIRT. SEE E2/B3/AF101
31. CONTINUOUS RADIUSED GYPSUM BOARD EDGE.
32. ELECTRONIC SCROLLING MARQUEE. COORDINATE WITH ELECTRICAL DRAWINGS
33. AUTOMATIC DOOR OPENER EACH SIDE OF DOOR
34. FIRE ALARM HORN/STROBE LIGHT. SEE ELECTRICAL.
35. MANUAL FIRE ALARM STATION
36. RECEPTACLE & TV OUTLET FOR 52" DIAGONAL FLAT SCREEN MONITOR.
37. STUB OUT FOR FUTURE "SMARTBOARD"
38. LOCKABLE CONTROL CABINET.
39. TRACK LIGHTING. SEE ELECTRICAL.

**GENERAL NOTES**

1. ALL EXPOSED SURFACES ARE TO BE FINISHED.
2. SEE FINISH SCHEDULE FOR BASE INFORMATION.
3. ALL TOILET ACCESSORIES ARE TO BE MOUNTED ACCORDING TO ANSI A111 STANDARDS.
4. SEE FLOOR PLAN AND SHEET AE601 FOR DOOR AND HINDON NOTES.

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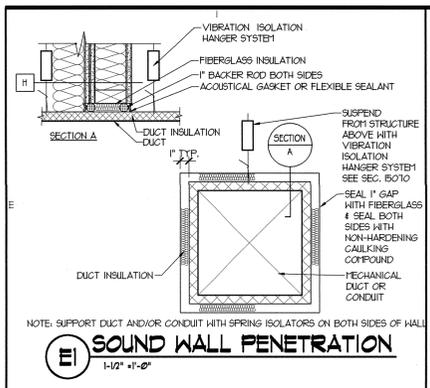
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JAN 23 2006

BID DOCUMENT	1/16/06
CD	100%
DD Submittal	7/21/04
DD Submittal	7/12/04
ARCHITECT PROJECT NO.	B04-012
DFCM PROJECT NO.	03234730

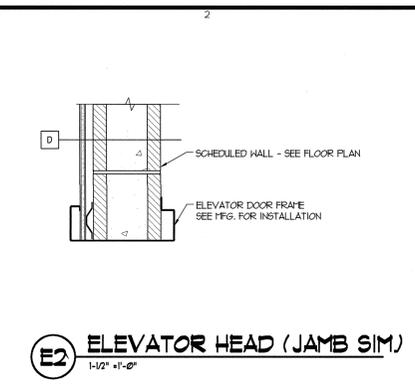
INTERIOR  
ELEVATIONS

**AE407**

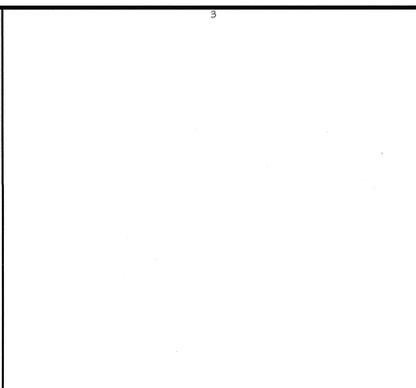




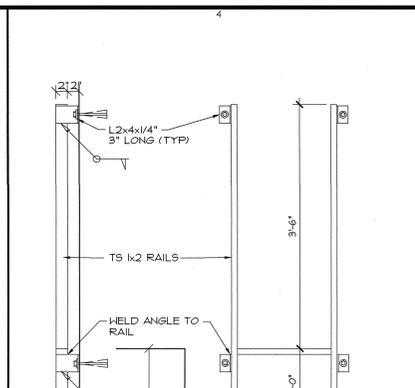
**E1 SOUND WALL PENETRATION**  
1-1/2" x 1'-0"



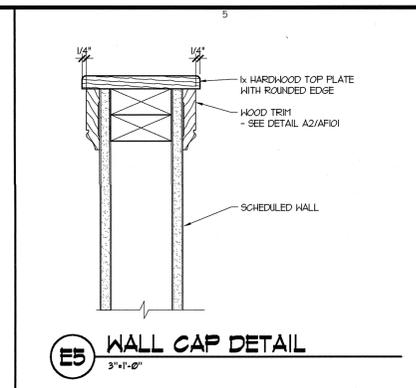
**E2 ELEVATOR HEAD (JAMB SIM)**  
1-1/2" x 1'-0"



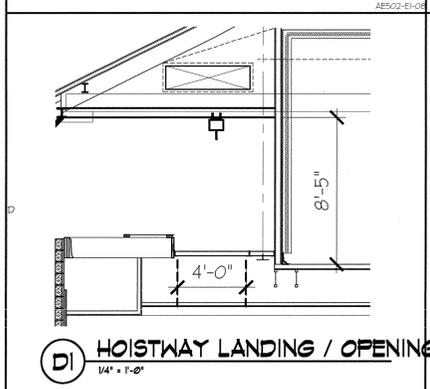
**E3 ELEVATOR DOOR SILL**  
3" x 1'-0"



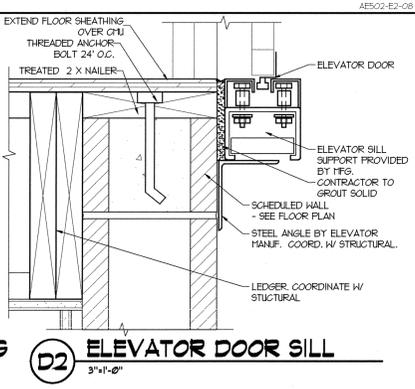
**E4 ELEVATOR LADDER**  
1" x 1'-0"



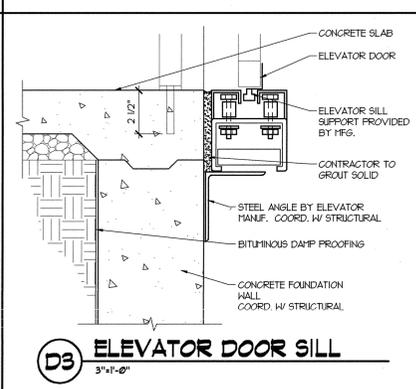
**E5 WALL CAP DETAIL**  
3" x 1'-0"



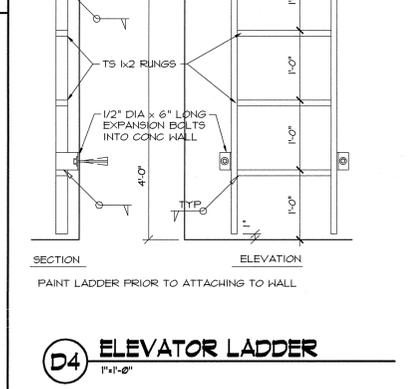
**D1 HOISTWAY LANDING / OPENING**  
1/4" x 1'-0"



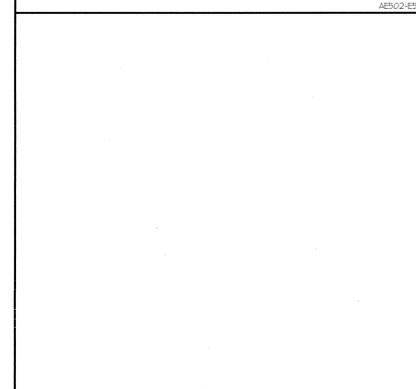
**D2 ELEVATOR DOOR SILL**  
3" x 1'-0"



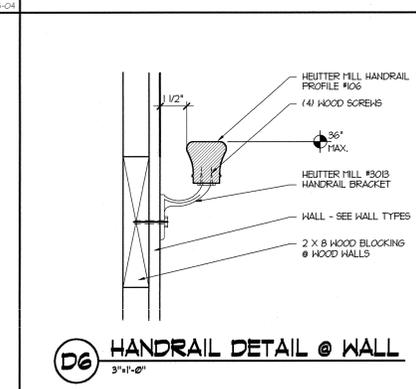
**D3 ELEVATOR DOOR SILL**  
3" x 1'-0"



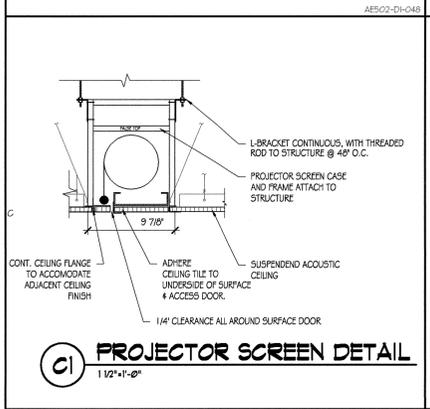
**D4 ELEVATOR LADDER**  
1" x 1'-0"



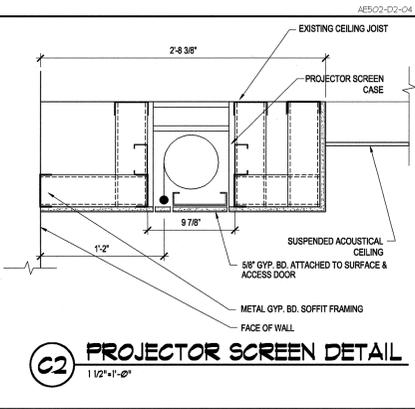
**D5 WALL CAP DETAIL**  
3" x 1'-0"



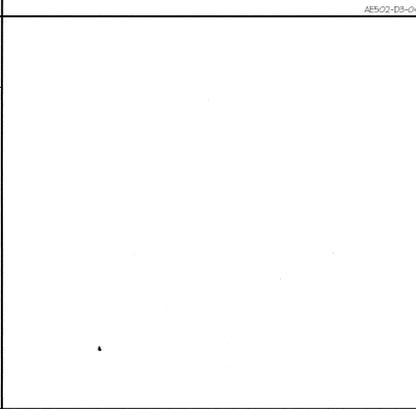
**D6 HANDRAIL DETAIL @ WALL**  
3" x 1'-0"



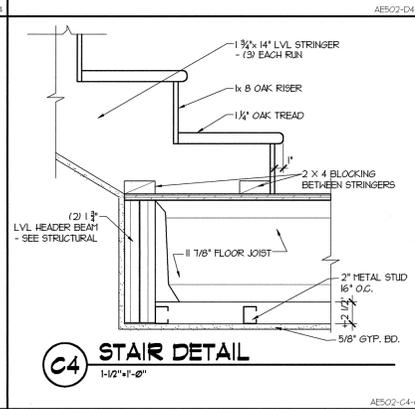
**C1 PROJECTOR SCREEN DETAIL**  
1 1/2" x 1'-0"



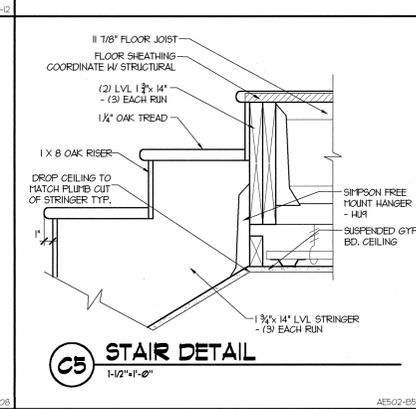
**C2 PROJECTOR SCREEN DETAIL**  
1 1/2" x 1'-0"



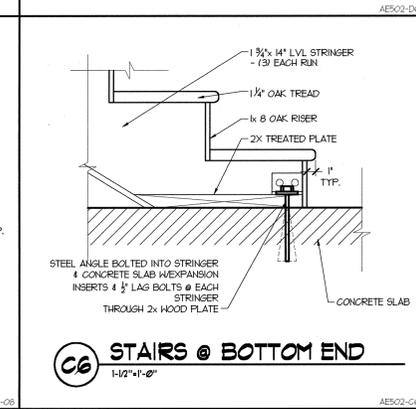
**C3 CEILING DROP @ WINDOW**  
1-1/2" x 1'-0"



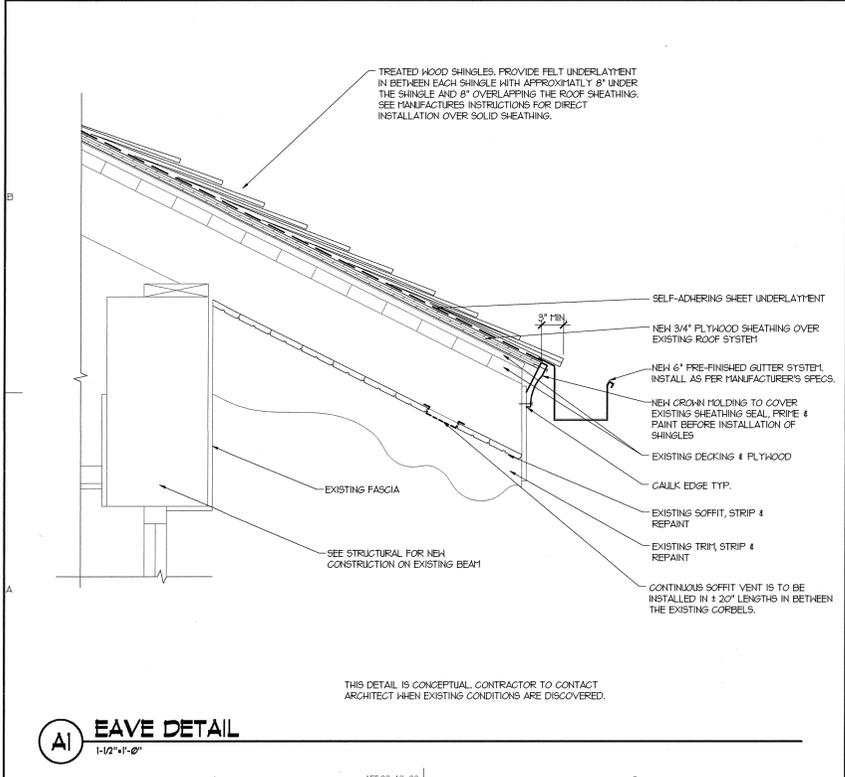
**C4 STAIR DETAIL**  
1-1/2" x 1'-0"



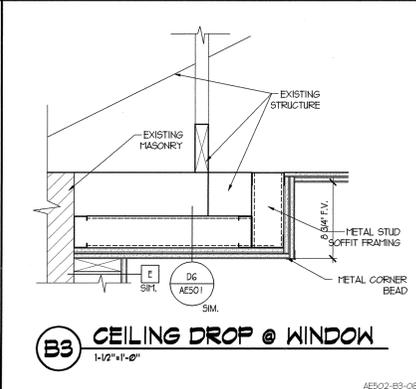
**C5 STAIR DETAIL**  
1-1/2" x 1'-0"



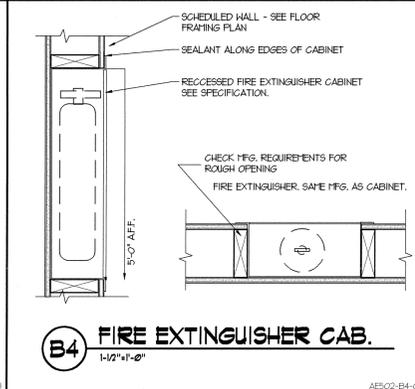
**C6 STAIRS @ BOTTOM END**  
1-1/2" x 1'-0"



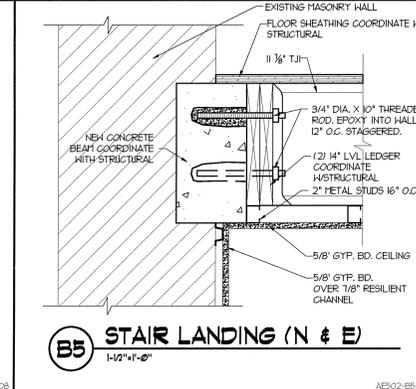
**A1 EAVE DETAIL**  
1-1/2" x 1'-0"



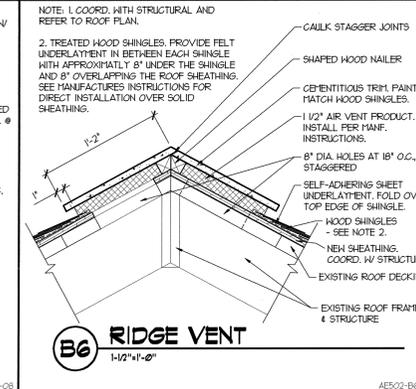
**B3 CEILING DROP @ WINDOW**  
1-1/2" x 1'-0"



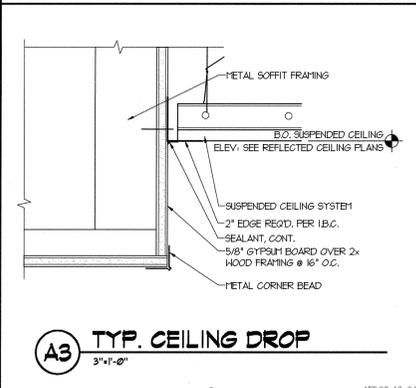
**B4 FIRE EXTINGUISHER CAB.**  
1-1/2" x 1'-0"



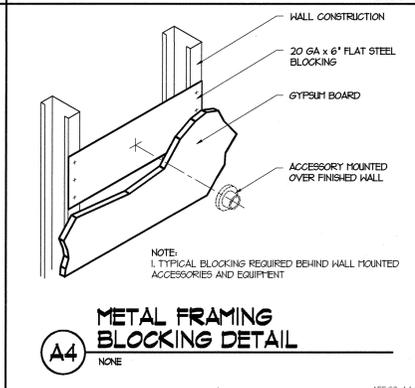
**B5 STAIR LANDING (N & E)**  
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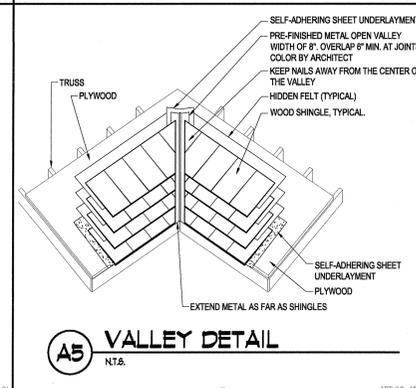
**B6 RIDGE VENT**  
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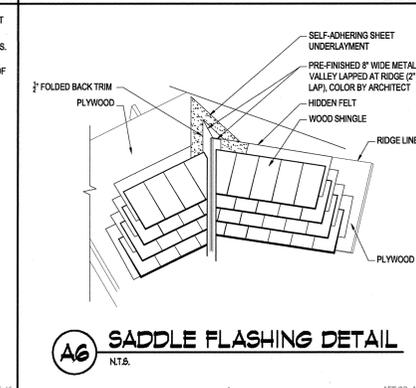
**A3 TYP. CEILING DROP**  
3" x 1'-0"



**A4 METAL FRAMING BLOCKING DETAIL**  
NONE



**A5 VALLEY DETAIL**  
N.T.S.



**A6 SADDLE FLASHING DETAIL**  
N.T.S.

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SIMONSEN  
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**OLD MAIN BUILDING  
SOUTHERN UTAH  
UNIVERSITY**  
351 WEST CENTER STREET  
CEDAR CITY, UTAH 84720

**STATE OF UTAH  
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4110 STATE OFFICE BUILDING  
SALT LAKE CITY, UTAH

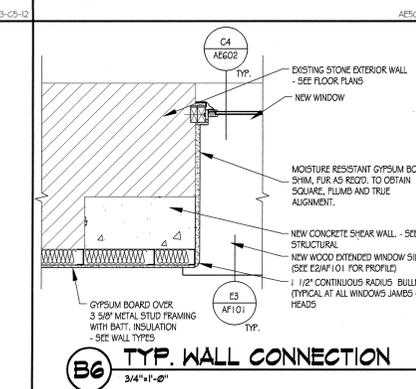
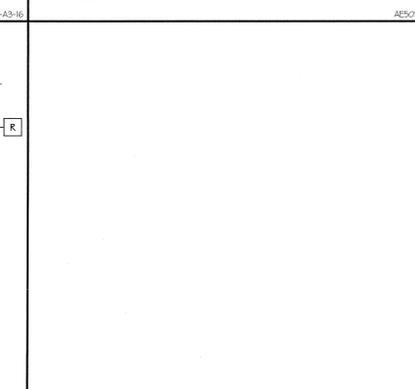
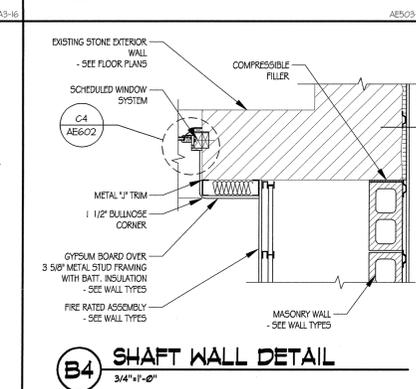
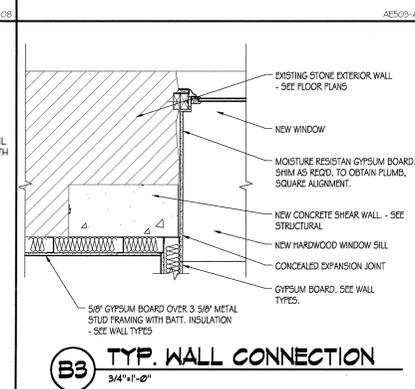
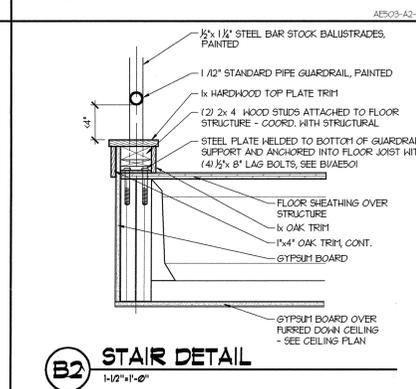
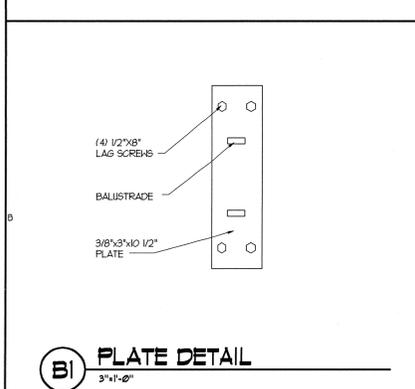
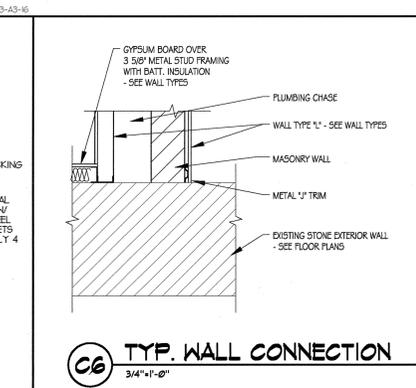
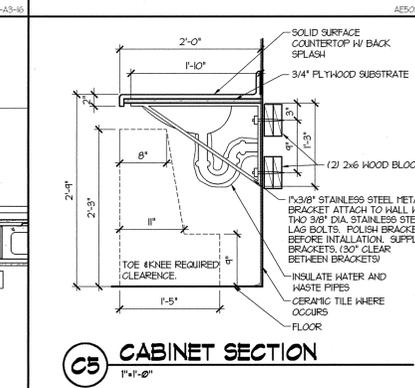
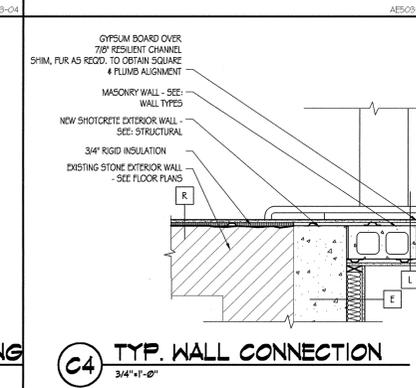
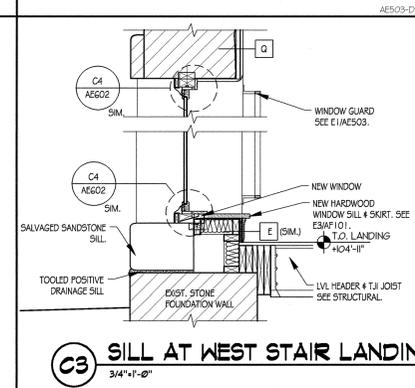
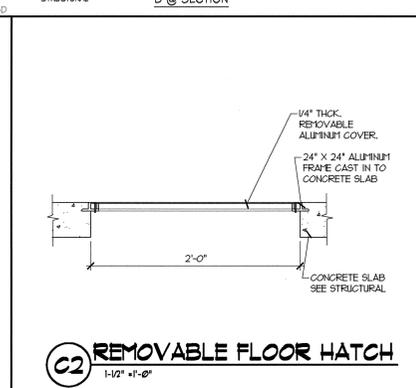
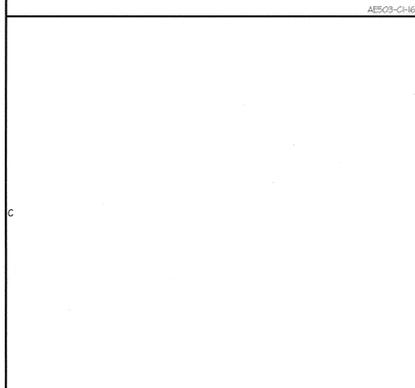
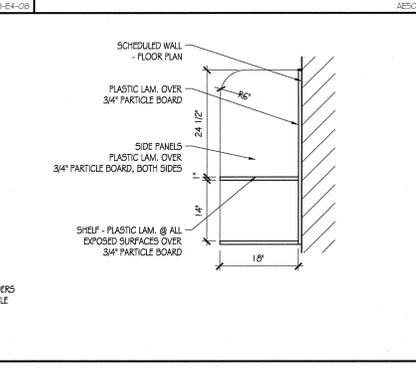
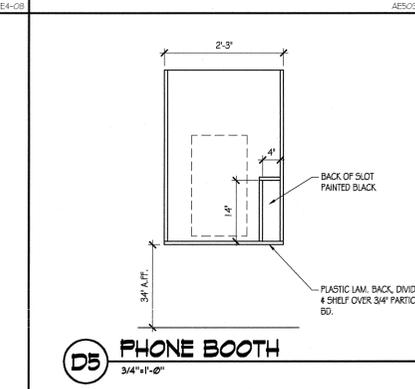
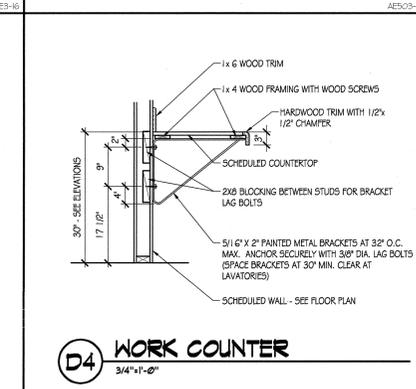
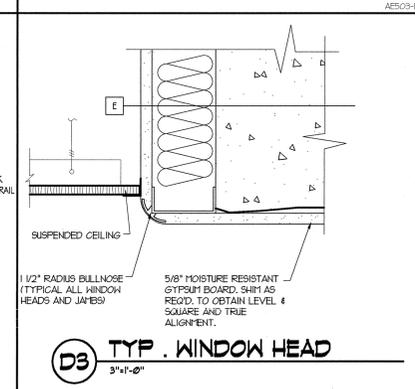
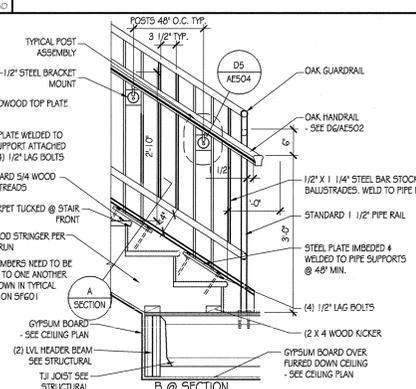
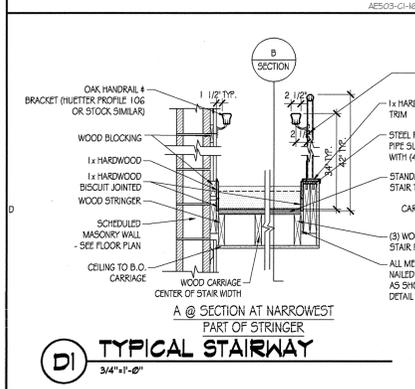
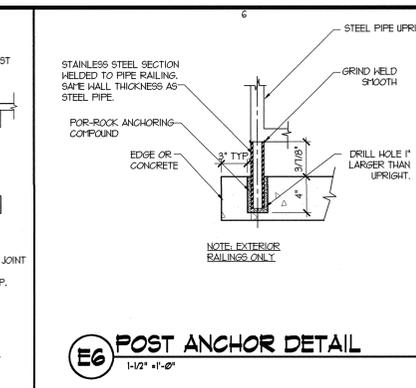
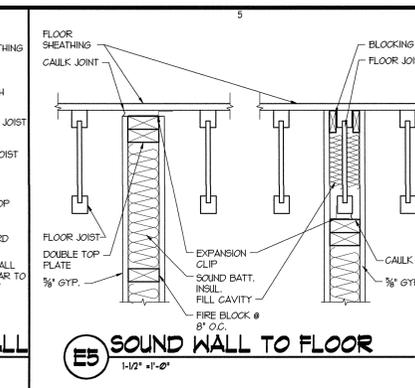
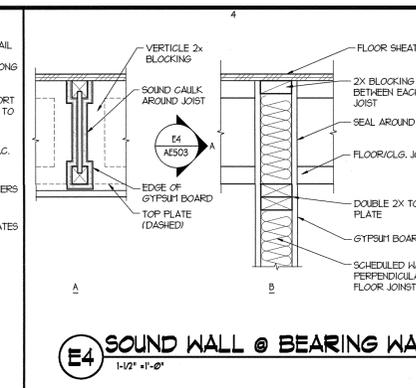
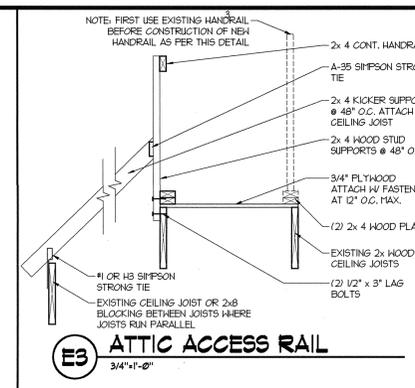
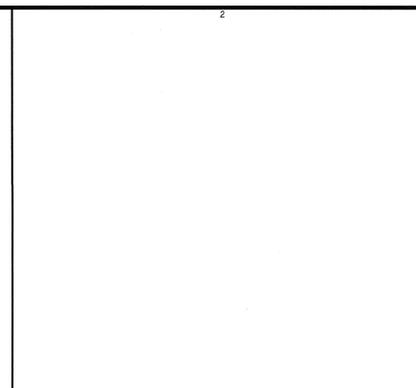
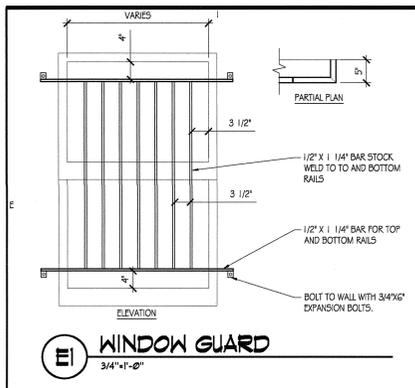
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BID DOCUMENT	1/1608
CD 100%	7/2104
DD Submittal	7/1204

ARCHITECT PROJECT NO.: B04-012  
DFCM PROJECT NO.: 03234730  
DTN

**TYP. DETAILS**

**AE502**



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**STATE OF UTAH DFCM**

4110 STATE OFFICE BUILDING  
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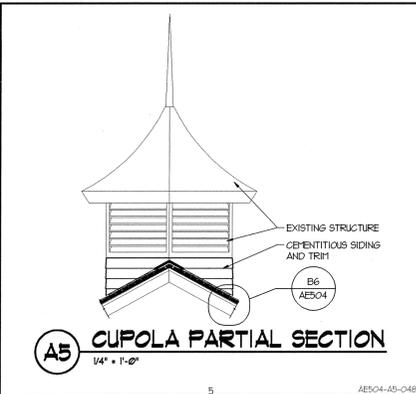
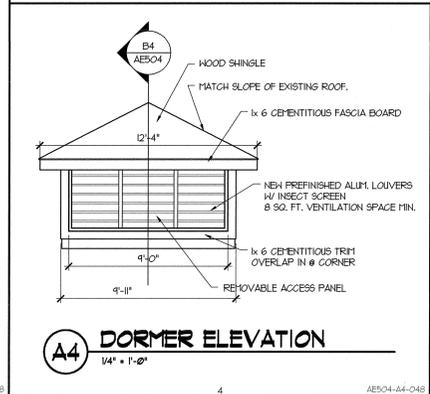
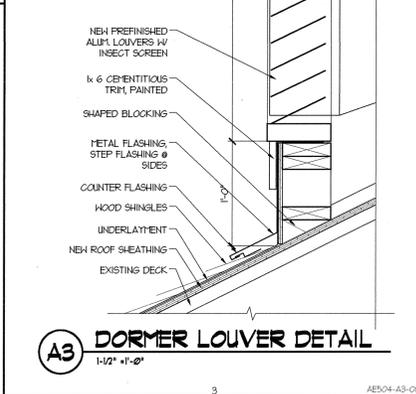
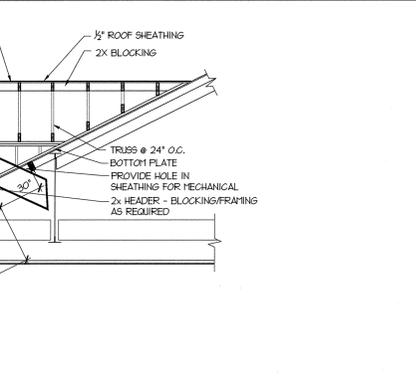
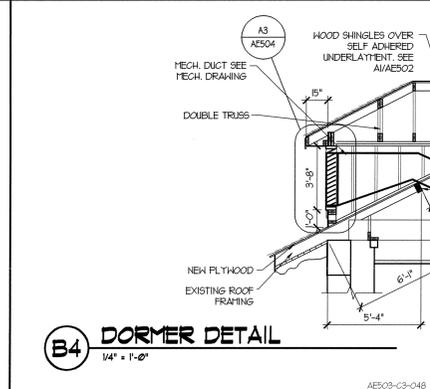
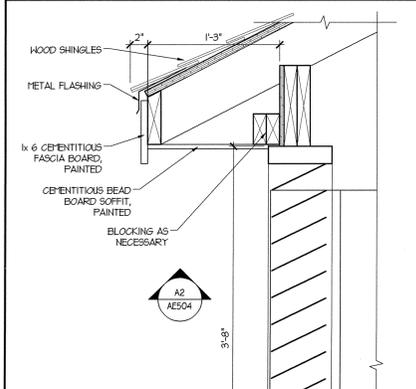
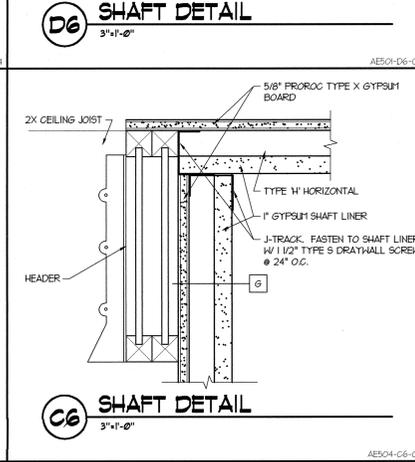
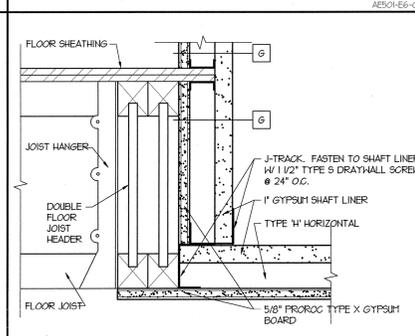
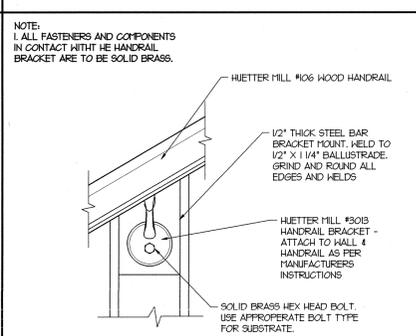
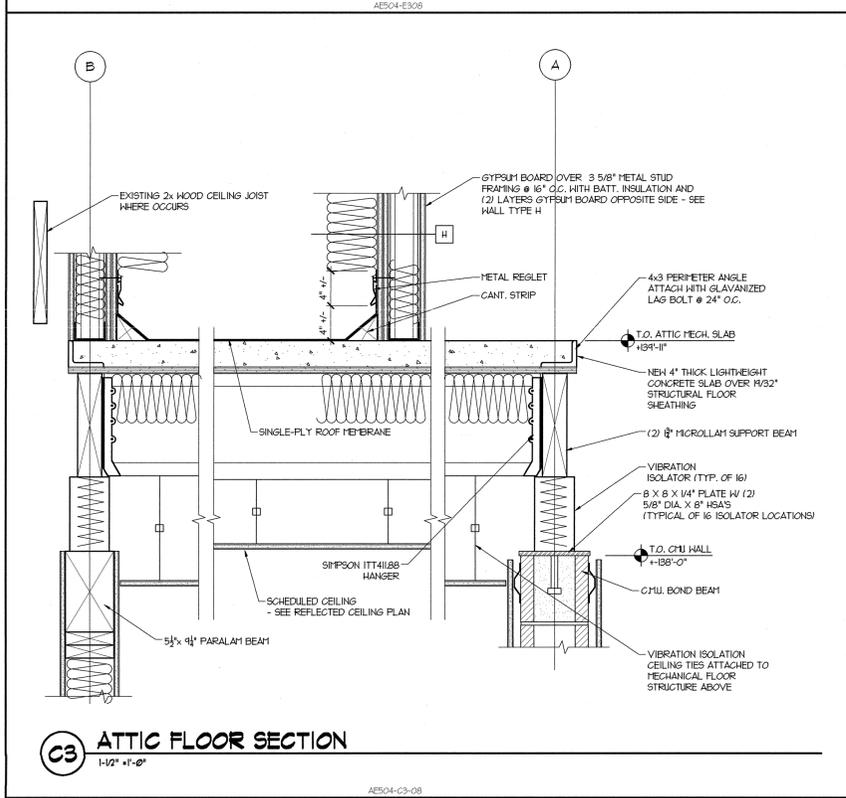
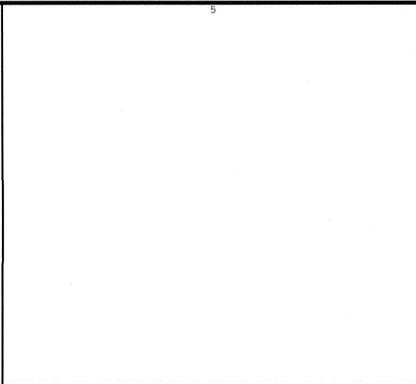
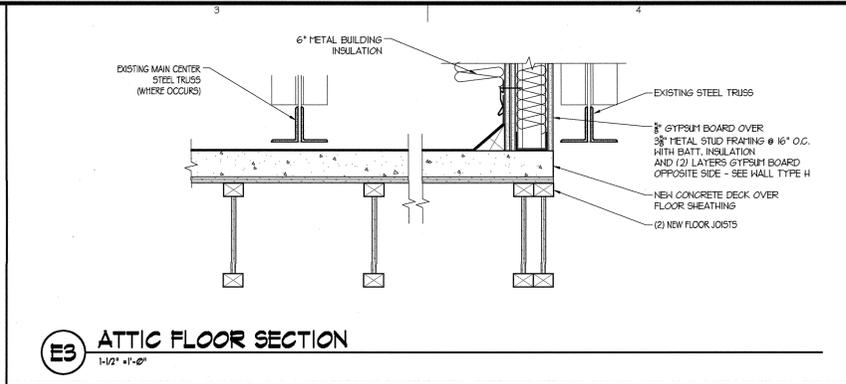
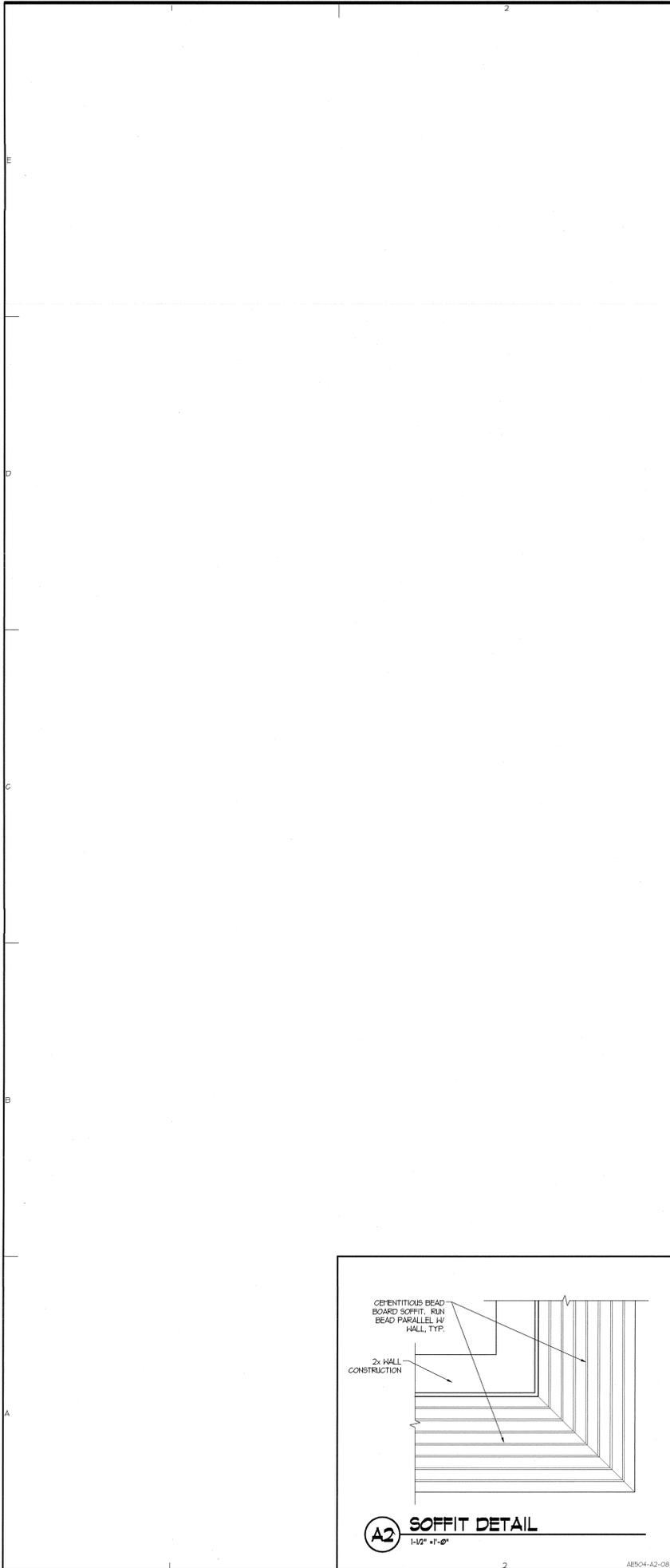
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BID DOCUMENT	1/1606
CD 100%	7/2104
DD Submittal	7/12/04

ARCHITECT PROJECT NO.: B04-012  
DFCM PROJECT NO.: 03234730  
BR

**TYP. DETAILS**

**AE503**



**COOPER ROBERTS SIMONSEN ARCHITECTURE**

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**STATE OF UTAH DFCM**

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SALT LAKE CITY, UTAH

JAN 23 2006

BID DOCUMENT	1/16/06
CD 100%	7/21/04
DD Submittal	7/12/04
ARCHITECT PROJECT NO.:	B04-012
DFCM PROJECT NO.:	03234730

**CONSTRUCTION - FINISH DETAILS**

**AE504**



**OLD MAIN BUILDING  
SOUTHERN UTAH  
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351 WEST CENTER STREET  
CEDAR CITY, UTAH 84720

STATE OF UTAH  
DFCM

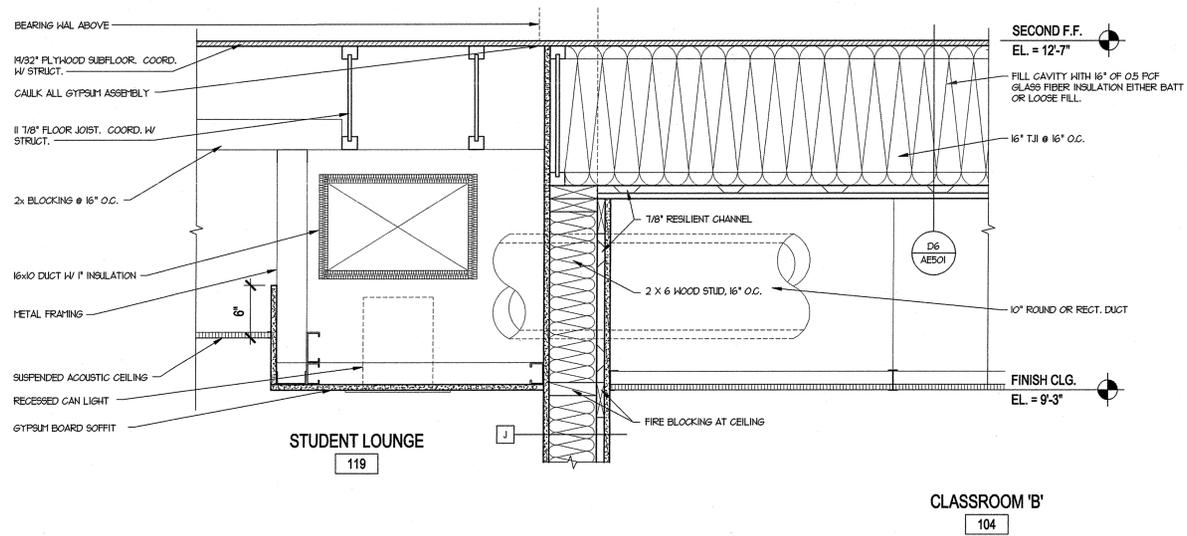
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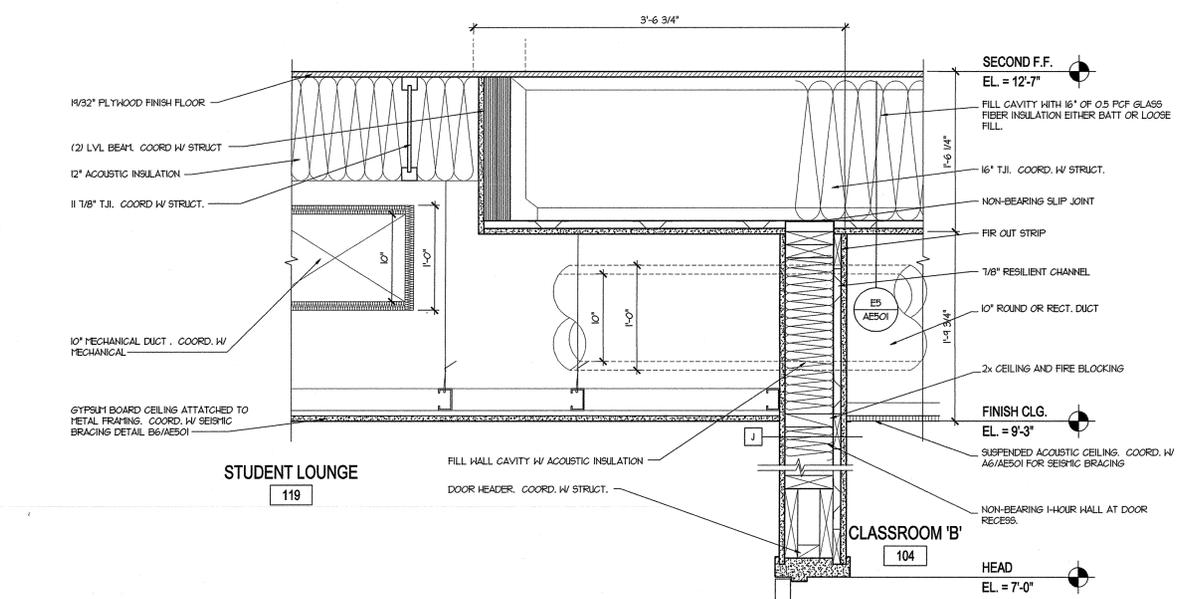
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CONSTRUCTION  
FINISH DETAILS

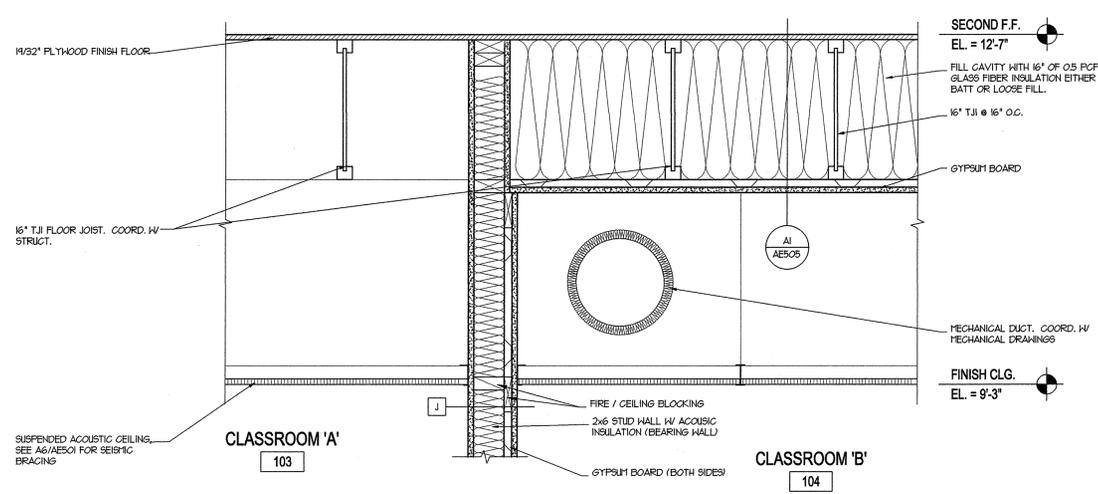
**AE505**



**C1** SOUND WALL TERMINATION DETAIL  
1-1/2" x 1'-0"



**A1** SOUND WALL TERMINATION DETAIL  
1-1/2" x 1'-0"



**A4** SOUND WALL TERMINATION DETAIL  
1-1/2" x 1'-0"





**System No. F-C-2004**  
F Ratings - 1 and 2 Hr (See Item 1)  
T Ratings - 1 and 2 Hr (See Item 1)  
L Rating At Ambient - 4 CFM/Sq Ft (See Item 4)  
L Rating At 400 F - Less Than 1 CFM/Sq Ft (See Item 4)

**SECTION A-A**

1. Floor - Ceiling Assembly - The 1 hr fire-rated solid or truss lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The 2 hr fire-rated wall joint floor-ceiling assembly shall be constructed of the materials and in the manner specified in the UL Fire Resistance Directory, the F and T Rating of the firestop system is equal to the fire rating of the floor-ceiling assembly. The general construction features of the floor-ceiling assembly are summarized below:  
A. Ceiling System - Lumber or plywood ceiling with flush floor joists. Joists max diam of 10 in. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Floor System - 1 1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an oil service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing top tape. Transverse joints secured with metal fasteners or with built tape supplied with the product.  
C. Furring Channels - (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as required in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.  
D. Gypsum Board\* - Nom 5/8 in. thick gypsum wallboard, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. The hourly F Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:  
E. Through Penetrating Product\* - Max three copper conductor 10 AWG Metal-Clad Cable +  
AFC CABLE SYSTEMS INC

2. Chose Wall The through penetrants shall be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be continuous contact, 0 in. (point contact) to max 1/4 in. or 0 in. (point contact) to max 1 in. (See Item 7). Pipe to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic penetrants may be used:  
A. Polyvinyl Chloride (PVC) Pipe Nom 3 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 3 in. diam (or smaller) Schedule 40 solid core CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 3 in. diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
D. Gypsum Board\* - Nom 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.  
E. System Board\* - Nom 4 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.  
F. Wood Joists Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and ends firestopped.  
G. Furring Channels (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as required in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.  
H. Polyvinyl Chloride (PVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
I. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
J. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
K. Nonmetallic Reducing Tee The following types and sizes of nonmetallic reducing tees may be used:  
A. Polyvinyl Chloride (PVC) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
L. Elbow One nonmetallic elbow to be installed flush with the underside of the flooring system directly below the opening. Max diam of floor opening is 3 1/2 in. The following types and sizes of nonmetallic elbows may be used:  
A. Polyvinyl Chloride (PVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
M. Fill Void or Core Material\* - Sealant Min 3/4 in. thickness of fill material applied around penetrant within the annulus on top surface of floor or sole plate of chase wall. Min 3/4 in. thickness of fill material applied within the annulus of the top plate flush with the bottom surface of the lower top plate. Min 1/2 in. bead of fill material applied at the penetrant/plate interfaces at point contact locations on both sides of assembly. Min 1/2 in. bead of fill material applied around the pipe or top socket of the elbow at the intersection of the flooring system. When penetrants are installed at continuous contact or min 0 in. in annular spaces, a 3/8 in. bead of sealant shall be applied at the penetrant/plate interfaces and over 3/8 in. annular space on both sides of the assembly.  
N. Hilti Construction Chemicals, DV OF HILTI INC - FS - ONE Sealant  
\*Bearing the UL Classification Mark

**System No. W-L-3065**  
F Ratings - 1 and 2 Hr (See Item 1)  
T Rating - 0 Hr (See Item 1)

**SECTION A-A**

1. Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.  
B. Wallboard, Gypsum\* - 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. The hourly F Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:  
C. Through Penetrating Product\* - Max three copper conductor 10 AWG Metal-Clad Cable +  
AFC CABLE SYSTEMS INC

Wall Assembly Rating	Through Penetrant	Pipe Covering Thickness	Annular Space	T Rating
1	A or B	4	1	1/2
1	C or D	2	1 or 1-1/2	1/2
1	A or B	4	1-1/2	1
1	C or D	2	1	1
1	A or B	6	2	3/1
1	C or D	2	2	1
2	A or B	4	1	1
2	C or D	4	1 or 1-1/2	1
2	A or B	4	2	1-3/4
2	C or D	12	2	1-7/8
2	A or B	4	1-1/2	1
2	C or D	2	2	1-1/2
2	A or B	6	2	1
2	C or D	2	2	1

\*Indicates penetrant type as itemized in Item 2.  
A. Fill Void or Core Material\* - Sealant - Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between pipe covering and gypsum wallboard, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum wallboard interface on both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DV OF HILTI INC - FS - ONE Sealant  
\*Bearing the UL Classification Mark

**System No. W-L-2078**  
F Ratings - 1 & 2 Hr (See Item 1)  
T Ratings - 1 & 2 Hr (See Item 1)

**SECTION A-A**

1. Wall Assembly The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below. The hourly F Rating and T Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed:  
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.  
B. Gypsum Board\* - Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 7 in.  
C. Through Penetrants One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (point contact) to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:  
A. Polyvinyl Chloride (PVC) Pipe Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 6 in. diam (or smaller) Schedule 40 solid core CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
D. Flame Retardant Polypropylene (FRPP) Pipe Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
E. Polyethylene Fluoride (PVDF) Pipe Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
3. Firestop Device\* - Firestop Collar Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor bolts provided with the collar. (Minimum 2 anchor bolts for 1-1/2 and 2 in. diam pipes, 3 anchor bolts for 3 and 4 in. diam pipes, and 6 anchor bolts for 6 in. diam pipes). The anchor bolts are to be secured to the surface of wall with 3/16 2-1/2 in. long toggle bolts along with washers.  
HILTI CONSTRUCTION CHEMICALS, DV OF HILTI INC - CP 643 50/1.5", CP 643 63/2", CP 643 90/3", CP 643 110/4" or CP 642 160/6" Firestop Collar  
\*Bearing the UL Classification Mark

**System No. W-L-5029**  
F Ratings - 1 and 2 Hr (See Item 1)  
T Ratings - 1/2, 3/4, 1 and 1-3/4 Hr (See Item 3)  
L Rating At Ambient - 4 CFM/Sq Ft  
L Rating At 400 F - Less Than 1 CFM/Sq Ft

**SECTION A-A**

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.  
B. Wallboard, Gypsum\* - 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. The hourly F Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:  
C. Through Penetrating Product\* - Max three copper conductor 10 AWG Metal-Clad Cable +  
AFC CABLE SYSTEMS INC

Wall Assembly Rating	Through Penetrant	Pipe Covering Thickness	Annular Space	T Rating
1	A or B	4	1	1/2
1	C or D	2	1 or 1-1/2	1/2
1	A or B	4	1-1/2	1
1	C or D	2	1	1
1	A or B	6	2	3/1
1	C or D	2	2	1
2	A or B	4	1	1
2	C or D	4	1 or 1-1/2	1
2	A or B	4	2	1-3/4
2	C or D	12	2	1-7/8
2	A or B	4	1-1/2	1
2	C or D	2	2	1-1/2
2	A or B	6	2	1
2	C or D	2	2	1

\*Indicates penetrant type as itemized in Item 2.  
A. Fill Void or Core Material\* - Sealant - Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between pipe covering and gypsum wallboard, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum wallboard interface on both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DV OF HILTI INC - FS - ONE Sealant  
\*Bearing the UL Classification Mark

**System No. F-C-2126**  
F Rating - 1 and 2 Hr (See Item 1)  
T Rating - 3/4 and 1-3/4 Hr

**SECTION A-A**

1. Floor-Ceiling Assembly The 1 or 2 hr fire-rated solid or truss lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:  
A. Floor System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 5-1/2 in.  
B. Wood Joists Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and ends firestopped.  
C. Furring Channels (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as required in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.  
D. Gypsum Board\* - Nom 4 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.  
E. System Board\* - Nom 4 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.  
F. Wood Joists Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and ends firestopped.  
G. Furring Channels (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as required in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.  
H. Polyvinyl Chloride (PVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
I. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
J. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
K. Nonmetallic Reducing Tee The following types and sizes of nonmetallic reducing tees may be used:  
A. Polyvinyl Chloride (PVC) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
L. Elbow One nonmetallic elbow to be installed flush with the underside of the flooring system directly below the opening. Max diam of floor opening is 3 1/2 in. The following types and sizes of nonmetallic elbows may be used:  
A. Polyvinyl Chloride (PVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
M. Fill Void or Core Material\* - Sealant Min 3/4 in. thickness of fill material applied around penetrant within the annulus on top surface of floor or sole plate of chase wall. Min 3/4 in. thickness of fill material applied within the annulus of the top plate flush with the bottom surface of the lower top plate. Min 1/2 in. bead of fill material applied at the penetrant/plate interfaces at point contact locations on both sides of assembly. Min 1/2 in. bead of fill material applied around the pipe or top socket of the elbow at the intersection of the flooring system. When penetrants are installed at continuous contact or min 0 in. in annular spaces, a 3/8 in. bead of sealant shall be applied at the penetrant/plate interfaces and over 3/8 in. annular space on both sides of the assembly.  
N. Hilti Construction Chemicals, DV OF HILTI INC - FS - ONE Sealant  
\*Bearing the UL Classification Mark

**System No. F-C-2126**  
F Rating - 1 and 2 Hr (See Item 1)  
T Rating - 3/4 and 1-3/4 Hr

**SECTION A-A**

1. Floor-Ceiling Assembly The 1 or 2 hr fire-rated solid or truss lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:  
A. Floor System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 5-1/2 in.  
B. Wood Joists Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and ends firestopped.  
C. Furring Channels (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as required in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.  
D. Gypsum Board\* - Nom 4 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.  
E. System Board\* - Nom 4 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design.  
F. Wood Joists Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and ends firestopped.  
G. Furring Channels (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as required in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.  
H. Polyvinyl Chloride (PVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
I. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
J. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
K. Nonmetallic Reducing Tee The following types and sizes of nonmetallic reducing tees may be used:  
A. Polyvinyl Chloride (PVC) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 4 in. by 4 in. by 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
L. Elbow One nonmetallic elbow to be installed flush with the underside of the flooring system directly below the opening. Max diam of floor opening is 3 1/2 in. The following types and sizes of nonmetallic elbows may be used:  
A. Polyvinyl Chloride (PVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
B. Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core CPVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
C. Acrylonitrile Butadiene Styrene (ABS) Reducing Tee Nom 3 in. (or smaller) Schedule 40 solid core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
M. Fill Void or Core Material\* - Sealant Min 3/4 in. thickness of fill material applied around penetrant within the annulus on top surface of floor or sole plate of chase wall. Min 3/4 in. thickness of fill material applied within the annulus of the top plate flush with the bottom surface of the lower top plate. Min 1/2 in. bead of fill material applied at the penetrant/plate interfaces at point contact locations on both sides of assembly. Min 1/2 in. bead of fill material applied around the pipe or top socket of the elbow at the intersection of the flooring system. When penetrants are installed at continuous contact or min 0 in. in annular spaces, a 3/8 in. bead of sealant shall be applied at the penetrant/plate interfaces and over 3/8 in. annular space on both sides of the assembly.  
N. Hilti Construction Chemicals, DV OF HILTI INC - FS - ONE Sealant  
\*Bearing the UL Classification Mark





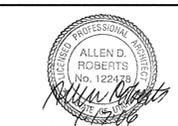
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**STATE OF UTAH  
DFCM**

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SALT LAKE CITY, UTAH

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BID DOCUMENT	1/16/06
CD 100%	7/21/04
DD Submittal	7/12/04
ARCHITECT PROJECT NO.:	B04-012
DFCM PROJECT NUMBER	03234730

**FIRE  
PENETRATION  
DETAILS**

**AE508**

#

System No. W-L-8019  
F Rating - 1 and 2 Hr (See Items 1, 3 and 4)  
T Rating - 0, 1/2, 1, 1-1/2 and 2 Hr (See Item 2)

1. Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs Steel studs 3-1/2 in. deep, fabricated from 25 MSG galv steel, spaced max 24 in. OC.  
B. Gypsum Board\* The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 450 sq in with max dimension of 30 in.  
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants A max of seven firestop configurations may be installed within the opening. The space between firestop configurations. Unless otherwise indicated, the space between firestop configurations and periphery of opening shall be min 3/8 in. Pipe, conduit, tubing or cables to be rigidly supported on both sides of floor or wall assembly. The T Rating of the system is dependent on the firestop configurations, as shown in the table below. Any combination of the following firestop configurations detailed herein may be used:

Firestop Configuration	1 Hr F Rating	2 Hr F Rating
A	0	1/2
B	1	1-1/2
C	1/2	1
D	0	0
E	1	2
F	0	0
G	0	0

2. Cables Max 4 in. diam tightly bundled cable. The min space between adjacent penetrants shall be 4 in. Cable bundle may be any combination of the following types and sizes of cables:  
G. Max 25 pair No. 24 AWG copper telephone cable with polyvinyl chloride (PVC) insulation and jacket materials.  
H. Max 7/C No. 12 AWG cable with PVC insulation and jacket materials.  
I. Multiple fiber optical communication cables with PVC jacket material and having a max outside diameter of 3/8 in.  
J. Max 3/C No. 12 AWG steel clad cables with PVC insulation and jacket materials.  
K. Max 3/C No. 8 AWG cable with ground with PVC insulation and jacket materials.  
L. Max RG 59 coaxial cables with PVC insulation and jacket materials.

3. Fill, Void or Cavity Material\* - Foam Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.

HILTI CONSTRUCTION CHEMICALS, DIV OF  
HILTI INC --- CP 620 Fire Foam

System No. W-L-8013  
F Ratings - 1 and 2 Hr (See Item 1)  
T Rating - 0 Hr  
L Rating At Ambient - 5 CFM/Sq Ft  
L Rating At 400 F - 2 CFM/Sq Ft

1. Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.  
B. Gypsum Board\* 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 352 sq in. with max dimension of 22 in. wide.  
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Cable Tray\* Max 18 in. wide by max 6 in. deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.065 in. thick aluminum or 0.060 in. thick steel and with 1-1/2 in. wide by 1 in. channel shape rungs spaced 9 in. OC or a 0.029 in. thick steel solid back, respectively. One cable tray to be installed in the opening. The max annular space between the cable tray and the periphery of the opening shall be min 1 in. to max 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. Cables Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:  
A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.  
B. 100 pair - No. 24 AWG cable with PVC insulation and jacket.

4. Through-Penetrants One or more pipe or tube to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between the pipe or tube and the periphery of the opening shall be min 1-1/2 in. to max 9-1/4 in. Pipe or tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of non-metallic or metallic pipes, or tubes may be used:  
A. Polyvinyl Chloride (PVC) Pipe Max 3 in. diam Schedule 40 solid core PVC pipe (or smaller) for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
B. Steel Pipe Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.  
C. Conduit Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.  
D. Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.  
E. Copper Tube Nom 4 in. diam (or smaller) Type L (or heavier) copper tube.

4A. Pipe Covering (Not Shown) Nom 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.  
See Pipe and Equipment Covering and Materials (BRCU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 may be used.

5. Cables Max 1-1/2 in. diam tight bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The space between the cables and periphery of the opening shall range from 1-3/16 in. min to a max of 1-1/2 in. Any combination of the following types and sizes of cables may be used:  
A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.  
B. 25 pair - No. 24 AWG cable with PVC insulation and jacket.  
C. Type R GU/59 coaxial cable with PVC outer jacket.  
D. 24 fiber optic cable with PVC sub unit and outer jacket.

6. Firestop System The firestop system shall consist of the following:  
A. Fill, Void or Cavity Material\* Fill, Void or Cavity Material\*-Fire Blocks For walls incorporating max 3-5/8 in. steel studs or max 2 by 4 in. wood studs, fire block installed with long dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. from surface of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF  
HILTI INC --- FS 657 Fire Block  
B. Fill, Void or Cavity Material\* Sealant or Putty - Fill material to be forced into interstices of cables, between cables and cable trays, around each penetrant and where obvious voids are observed to max extent possible on both surfaces of the penetration.  
HILTI CONSTRUCTION CHEMICALS, DIV OF  
HILTI INC --- FS-One Sealant, CP 618 Putty Stick CP620 Fire Foam  
\*Bearing the UL Classification Mark

System No. W-L-7040  
F Ratings - 1 and 2 Hr (See Items 1 and 3)  
T Rating - 0 Hr

1. Wall Assembly The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:  
A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. Additional framing members shall be used to completely frame around opening.  
B. Gypsum Board\* Nom 5/8 in. thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 1300 sq in. with the dimension of 50 in. The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Duct Nom 24 in. by 48 in. (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed within the firestop system. The annular space shall be min 0 (point contact) in. to a max 2 in. Duct to be rigidly supported on both sides of the wall assembly.

3. Firestop System The firestop system shall consist of the following:  
A. Fill, Void or Cavity Material\* Sealant Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC --- FS-One Sealant, CP601S Elastomeric Firestop Sealant or CP606 Flexible Sealant.  
B. Steel Retaining Angle No. 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. overlap on the gypsum board assembly on both surfaces of wall. 2 in. leg of angle secured to duct with min No. 8 by 3/4 in. long sheet metal screws, spaced a max of 6 in. OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.  
\*Bearing the UL Classification Mark

System No. W-L-8013  
F Ratings - 1 and 2 Hr (See Item 1)  
T Rating - 0 Hr

1. Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.  
B. Gypsum Board\* 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 352 sq in. with max dimension of 22 in. wide.  
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Cable Tray\* Max 18 in. wide by max 6 in. deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.065 in. thick aluminum or 0.060 in. thick steel and with 1-1/2 in. wide by 1 in. channel shape rungs spaced 9 in. OC or a 0.029 in. thick steel solid back, respectively. One cable tray to be installed in the opening. The max annular space between the cable tray and the periphery of the opening shall be min 1 in. to max 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. Cables Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:  
A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.  
B. 100 pair - No. 24 AWG cable with PVC insulation and jacket.

4. Through-Penetrants One or more pipe or tube to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between the pipe or tube and the periphery of the opening shall be min 1-1/2 in. to max 9-1/4 in. Pipe or tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of non-metallic or metallic pipes, or tubes may be used:  
A. Polyvinyl Chloride (PVC) Pipe Max 3 in. diam Schedule 40 solid core PVC pipe (or smaller) for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
B. Steel Pipe Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.  
C. Conduit Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.  
D. Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.  
E. Copper Tube Nom 4 in. diam (or smaller) Type L (or heavier) copper tube.

4A. Pipe Covering (Not Shown) Nom 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.  
See Pipe and Equipment Covering and Materials (BRCU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 may be used.

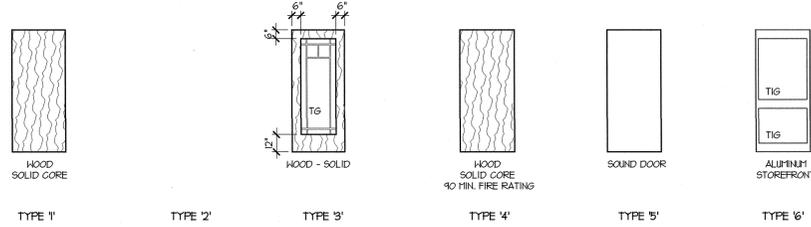
5. Cables Max 1-1/2 in. diam tight bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The space between the cables and periphery of the opening shall range from 1-3/16 in. min to a max of 1-1/2 in. Any combination of the following types and sizes of cables may be used:  
A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.  
B. 25 pair - No. 24 AWG cable with PVC insulation and jacket.  
C. Type R GU/59 coaxial cable with PVC outer jacket.  
D. 24 fiber optic cable with PVC sub unit and outer jacket.

6. Firestop System The firestop system shall consist of the following:  
A. Fill, Void or Cavity Material\* Fill, Void or Cavity Material\*-Fire Blocks For walls incorporating max 3-5/8 in. steel studs or max 2 by 4 in. wood studs, fire block installed with long dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. from surface of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF  
HILTI INC --- FS 657 Fire Block  
B. Fill, Void or Cavity Material\* Sealant or Putty - Fill material to be forced into interstices of cables, between cables and cable trays, around each penetrant and where obvious voids are observed to max extent possible on both surfaces of the penetration.  
HILTI CONSTRUCTION CHEMICALS, DIV OF  
HILTI INC --- FS-One Sealant, CP 618 Putty Stick CP620 Fire Foam  
\*Bearing the UL Classification Mark

**HILTI**  
FIRESTOP SYSTEMS  
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**DOOR TYPES**



**DOOR SCHEDULE**

MARK	GENERAL	DOOR		FRAME CONSTRUCTION		MISCELLANEOUS				
		DOOR TYPE	PAIR	DOOR GLAZING	FRAME TYPE	HARDWARE GROUP	FIRE RATING	AUTOMATIC OPENER	THRESHOLD	NOTES
<b>BASEMENT LEVEL</b>										
002A	ELEVATOR TECH. ROOM	5		D		H7		T3	3.8	
<b>MAIN LEVEL</b>										
101A	EAST STAIR - A	6	●	TIG	M	H1		T1	1.5	
101B	EAST STAIR - A	4		G		H3	90		2	A5
102A	ELECTRICAL/COMMUNICATIONS	5		D		H7		T3	3.8	A6
103A	CLASSROOM A	1		B		H10				A6
104A	CLASSROOM B	1		B		H10				A6
104B	CLASSROOM B	1		B		H10				A6
105A	MECHANICAL ROOM	1	●	C		H8		T3	8.7.8	
106A	WEST STAIR "C"	8	●	TIG	K	H2		T1	1.5, 7	
107A	MEN RESTROOM	1		N		H5		T2		A1
108A	WOMEN RESTROOM	1		N		H5		T2		A2
110A	ELECTRICAL	1		B		H7		T3	6	
111A	STUDENT INST. MAT. PROD.	1		B		H8			6	A6
112A	NORTH STAIR "B"	6		TIG	J	H1		T1	1	
112B	NORTH STAIR "B"	4		F		H11	90			A5
112C	FIRE SERVICE	1	●	A		H7		T3	6	
113A	STORAGE	4		F		H9	90			A6
115A	FIELD SERVICE DIRECTOR	1		J		H8			6	A6
116A	COPY AND MAIL ROOM	1		B		H8			6	
117A	FIELD SERVICE ADVISOR	1		J		H8			6	A6
<b>SECOND LEVEL</b>										
201A	EAST STAIR "A"	4	●	G		H3	90		2	A5
202A	COM. ROOM	1		B		H7		T3	6	A6
203A	ELMH. ED. CHAIR	1		J		H8			6	A6
204A	SEC. ED. SECRETARY	3		TG	J	H8			6	A6
205A	SEC. ED. CHAIR	1		J		H8			6	A6
206A	SHARED REG. MAT. STOR.	1		B		H6			6	A6
207A	SHARED OFFICE SUPPORT	1		J		H9			6	A6
208A	CONFERENCE	3		TG	J	H8			6	A4
209A	WOMEN RESTROOM	1		N		H4		T2		A2
210A	MEN RESTROOM	1		N		H4		T2		A1
213A	STORAGE	1		B		H8			6	A6
214A	SECRETARY	3		TG	J	H8			6	A6
215A	DEAN'S OFFICE	1		J		H8			6	A6
217A	NORTH STAIR "B"	4		F		H11	90			A5
218A	SECRETARY	3		TG	J	H8			6	A6
219A	ASST. DEAN OFFICE	1		J		H8			6	A6
220A	HORR. ROOM	1		B		H8			6	A6
221A	ADVISOR	1		J		H8			6	A6
<b>THIRD LEVEL</b>										
301A	EAST STAIR - A	4	●	G		H3	90		2	A5
302A	ELECTRICAL/COM.	5		D		H8		T3	6	A6
303A	DIST. LEARNING/GRAD. "A"	1		D		H8			6	A6
304A	DIST. LEARNING/GRAD. "B"	1		D		H8			6	A6
305A	DIST. LEARNING/GRAD. "C"	1		D		H8			6	A6
306A	DEAN'S CONF. & NCATE DOC.	3		TG	H	H8			7	A6
308A	MEN RESTROOM	1		N		H5		T2		A6
309A	CUSTOMER	1		B		H7		T3	4.6	A6
310A	WOMEN RESTROOM	1		N		H5		T2		A6
311A	FILES/STORAGE	1		B		H9			6	A6
313A	NORTH STAIR - B	4		F		H11	90			A5
314A	SECRETARY	3		TG	J	H8			6	A6
315A	GRAD. ED. CHAIR	1		J		H8			6	A6
316A	GRAD. ADVISOR	1		J		H8			6	A6
317A	SECRETARY	3		TG	J	H8			6	A6
318A	ATTIC ACCESS	1(2)	●	B		H7		T3	6	
320A	FILES/STORAGE	1		B		H9			6	A6
<b>ATTIC</b>										
	ALL ATTIC DOORS	5		E		H12			3	

**GENERAL DOOR NOTES:**

A. DUE TO MULTIPLE USE, SOME OF THE DETAILS FRAME TYPES, ETC. REFERENCED TO ON THE DOOR SCHEDULE ARE REVISED AND/OR ROTATED FROM THE DIRECTION SHOWN ON THE FLOOR PLAN. THE CONTRACTOR SHALL COORDINATE WITH HALL TYPES (SHEET A600) FOR HALL FINISHES.

B. THE GENERAL INTENT OF DETAILS SHALL IN ALL CASES, BE FOLLOWED AND THE ARCHITECT CONSULTED SHOULD QUESTIONS ARISE.

C. DOORS TO BE SET TO CLEAR FINISHED FLOOR SURFACES BY 1/2".

D. THE CONTRACTOR SHALL FIELD VERIFY ALL FRAME/DOOR DIMENSIONS.

E. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT DOORS TO ROOMS WHERE VARIOUS WORK IS TAKING PLACE. DOORS MAY BE REMOVED AND STORED OR PROTECTED BY OTHER MEANS.

F. ALL HOOD IS TO BE STAINED TO MATCH ARCHITECTS SAMPLE (PREFER COLORED OAK)

**GLASS NOTES: THICKNESS SEE SPEC**

TG - TEMPERED GLASS  
 IG - TEMPERED INSULATED GLASS  
 IS - INSULATED GLASS  
 C - CLEAR FLUAT GLASS  
 FG - FIRE RATED INSULATED GLASS

**THRESHOLD NOTES:**

T1 - ALUMINUM THRESHOLD. SEE A6A/101  
 T2 - MARBLE THRESHOLD. SEE A1 / A6A/200  
 T3 - CARPET TERMINATION STRIP

**KEYED NOTES:**

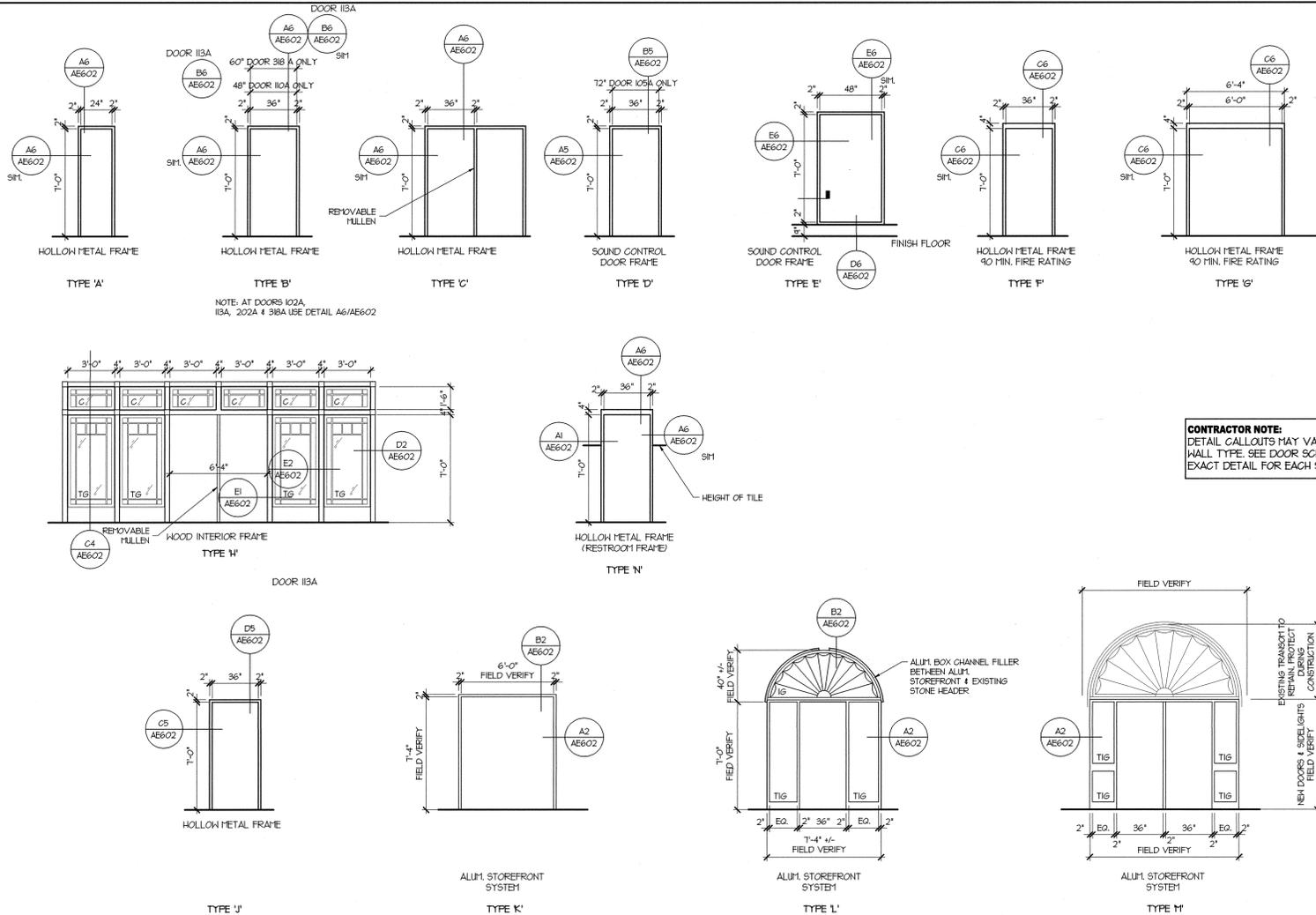
1. DOOR ALARM/SECURITY. WIRE FOR FUTURE INSTALLATION.  
 2. MAGNETIC HOLD OPEN  
 3. SOUND DOOR - SEE SPEC  
 4. 1" BOTTOM DOOR SPACE FOR MECH. EXHAUST AIR BALANCE  
 5. EXISTING ARCHED HOOD TRANSOM TO REMAIN, STRIP PAINT AND REFINISH TO MATCH NEW DOOR AND FRAME COLOR.  
 6. REPLACE BROKEN GLASS.  
 7. CHIT DOOR TRIM ON INSIDE FACE OF FRAME. EXTEND GYPSUM BOARD TO FRAME AND FINISH.  
 8. OPERABLE DOOR TO BE BEST LEAF.

**ACCESSIBLE SIGNS**

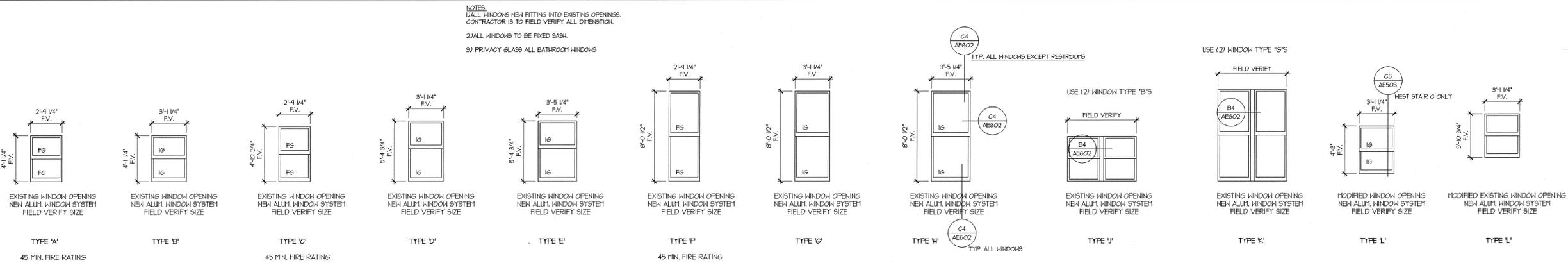
A1 - NOT USED  
 A2 - NOT USED  
 A3 - NOT USED  
 A4 - NOT USED  
 A5 - EXIT STAIR  
 A6 - OCCUPANT TITLE (ROOM NAME)

ALL SIGNS ARE TO BE MOUNTED AT 40" FROM THE BASELINE OF THE BRaille CHARACTERS TO THE FINISHED FLOOR. THE SIGNS WILL BE MOUNTED ON THE LATCH SIDE OF THE DOOR.

**DOOR FRAME TYPES**



**WINDOW TYPES**



**COOPER ROBERTS SIMONSEN ARCHITECTURE**

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**WHW ENGINEERING INC.**  
 PROFESSIONAL MECHANICAL ENGINEERING  
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 (801) 488-4271, FAX 488-8238  
 EMAIL: wscott@whw-engineering.com

**BNA Consulting Engineers**  
 Electrical Engineering & Lighting Design  
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 (801) 532-2166 Fax (801) 532-0365

**bma**  
 brent morris associates ■ landscape architects  
 801 West 1st Street, Suite 100, West Valley City, UT 84113 and Redwood



**OLD MAIN BUILDING SOUTHERN UTAH UNIVERSITY**  
 351 WEST CENTER STREET  
 CEDAR CITY, UTAH 84720

**STATE OF UTAH DFCM**  
 4110 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH

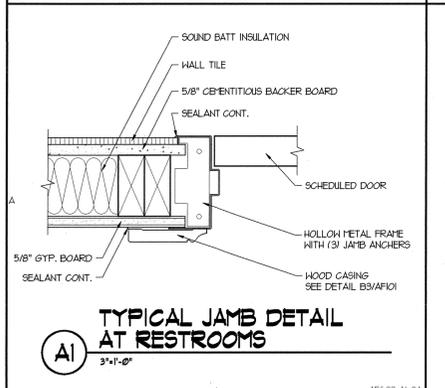
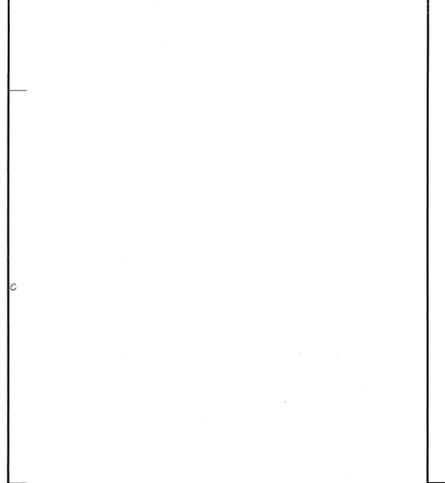
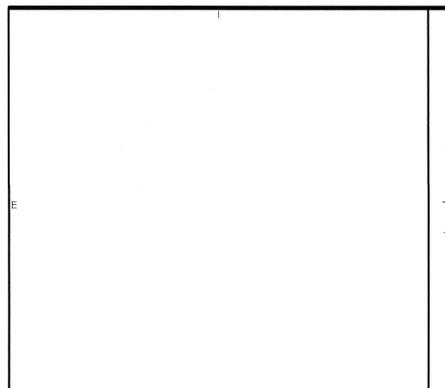
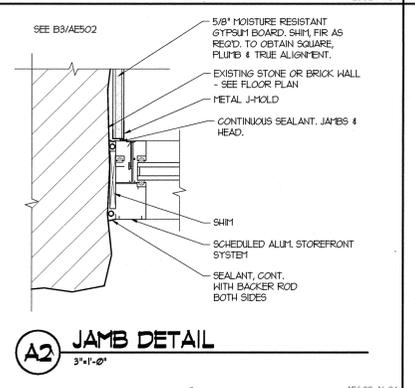
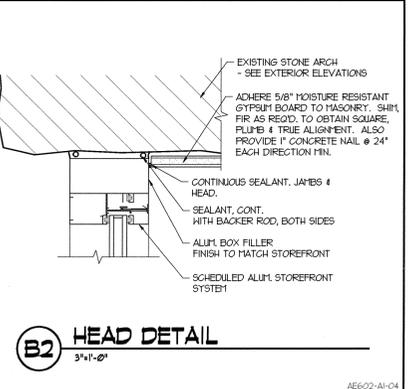
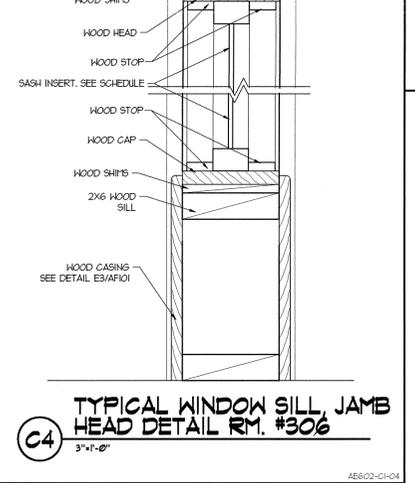
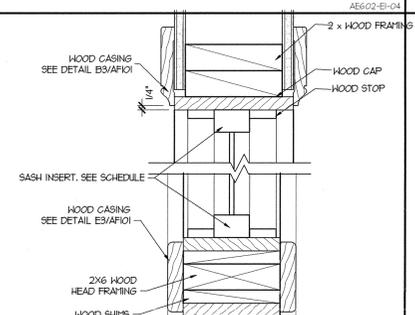
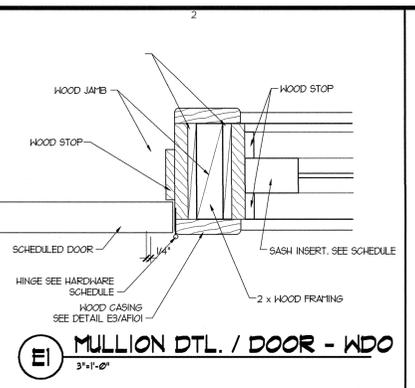
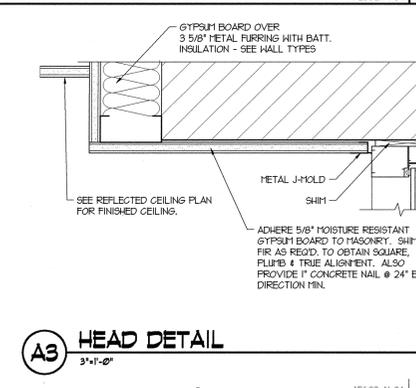
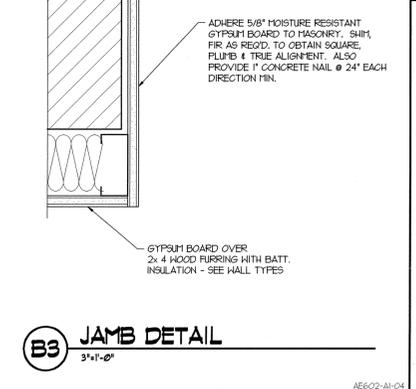
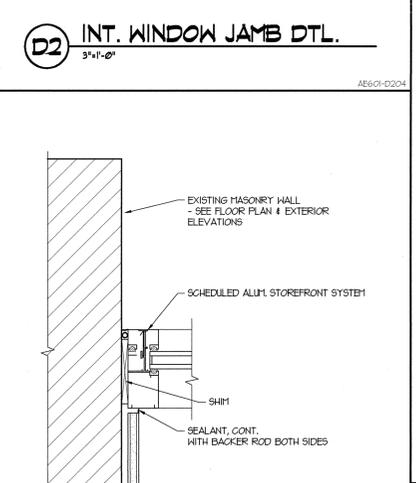
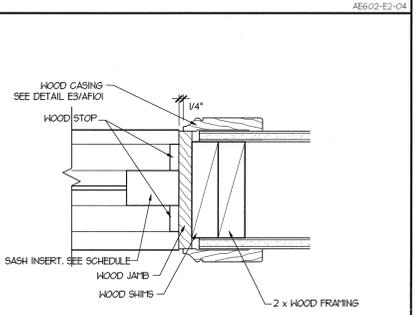
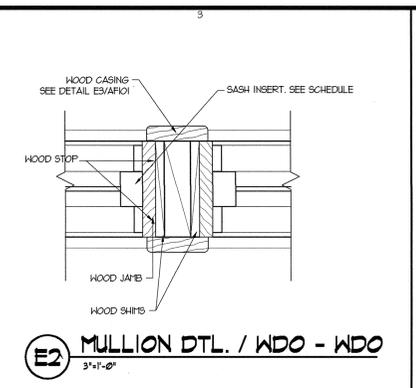
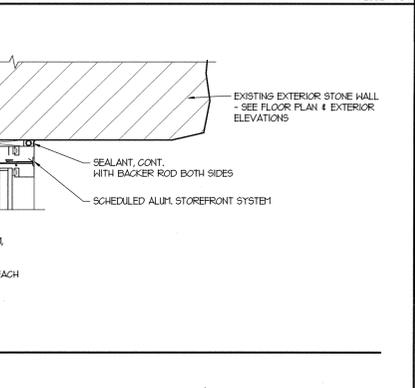
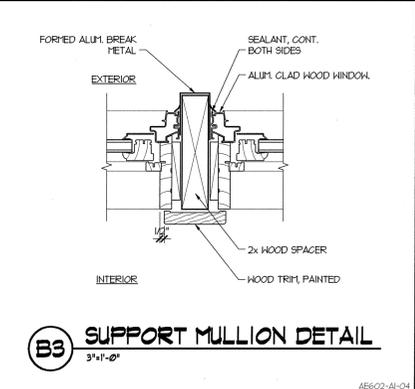
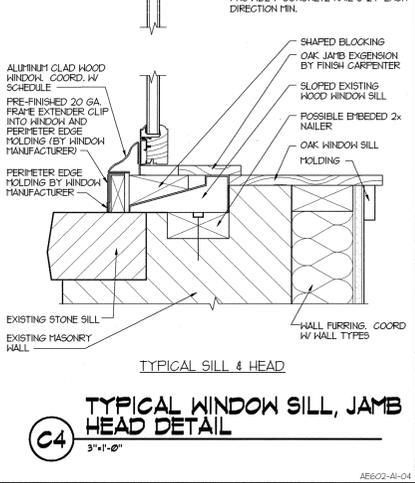
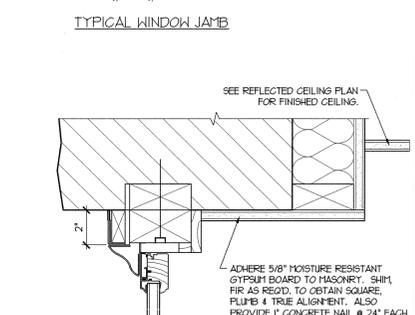
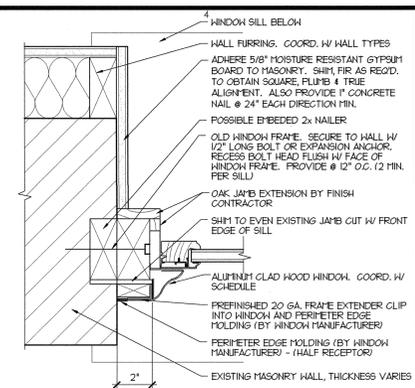
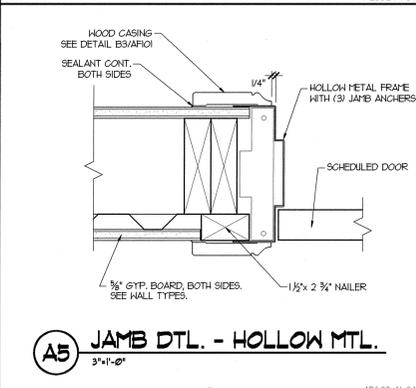
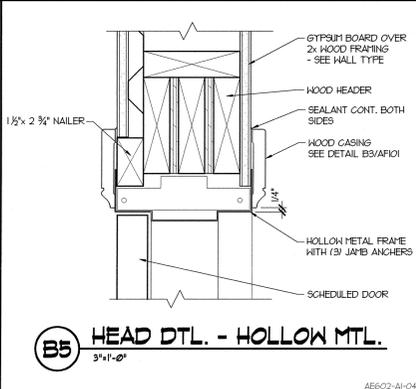
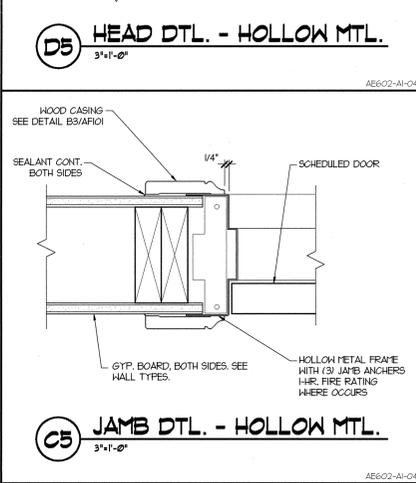
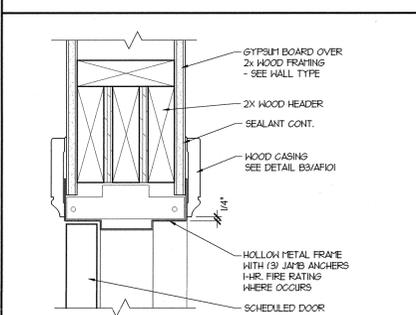
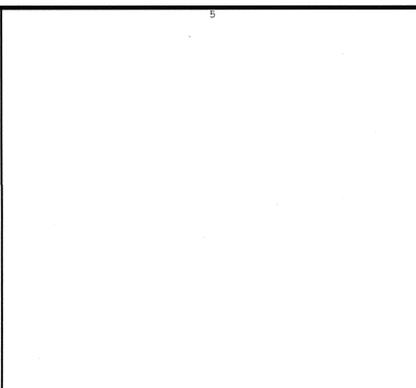
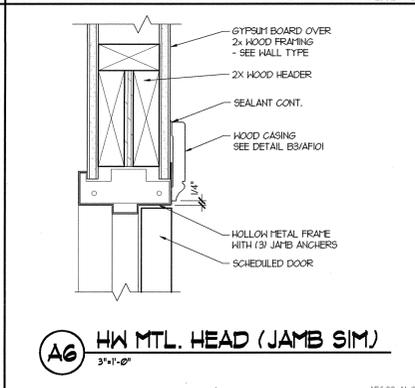
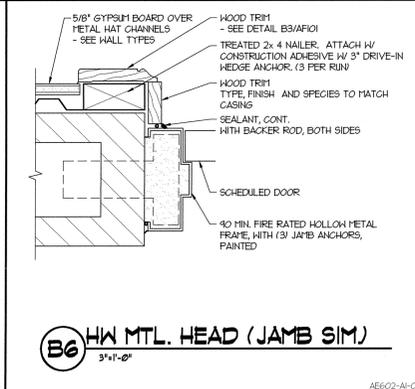
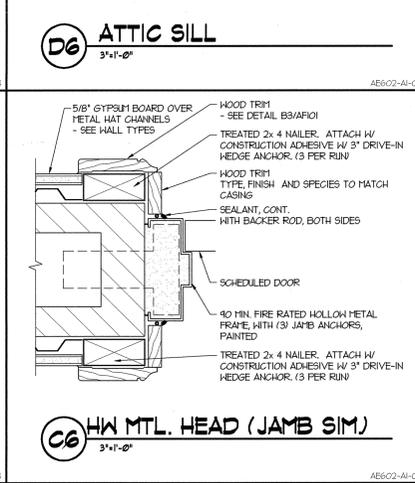
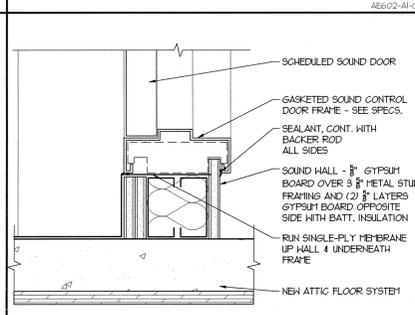
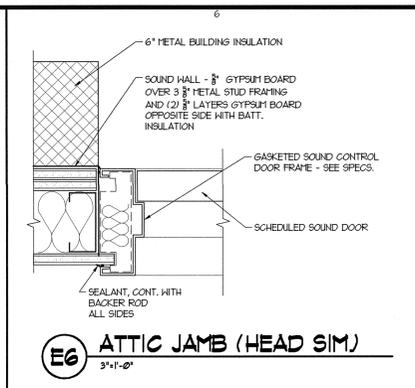
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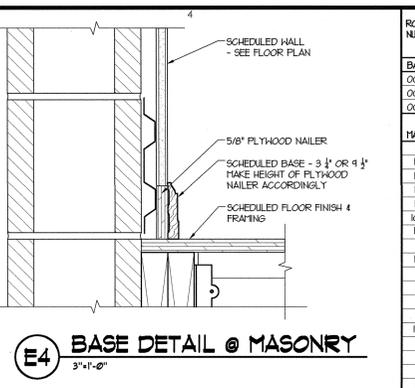
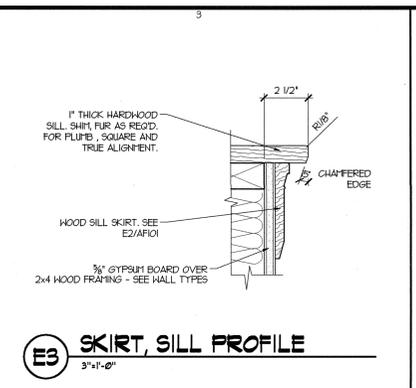
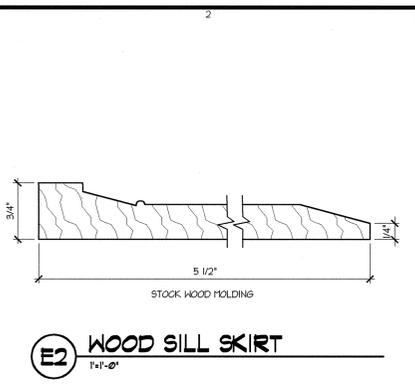
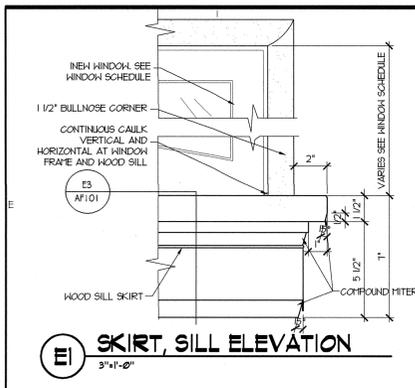
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DD Submittal	7/12/04

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 DFCM PROJECT NO.: 03234730  
 DTN

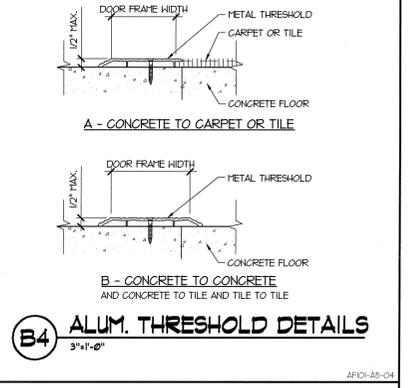
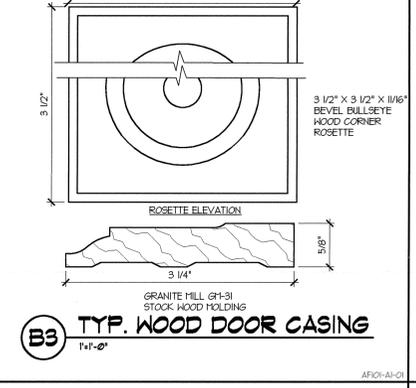
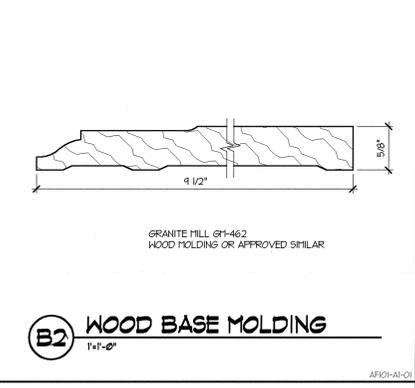
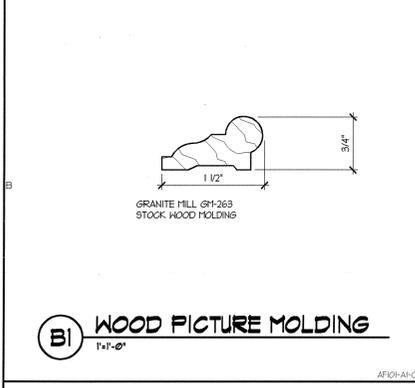
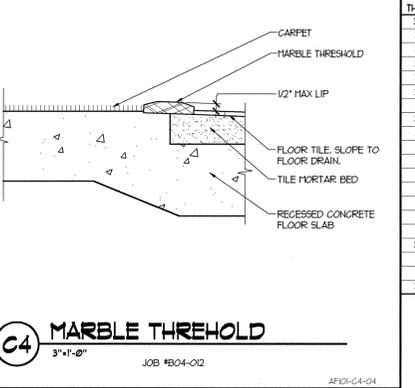
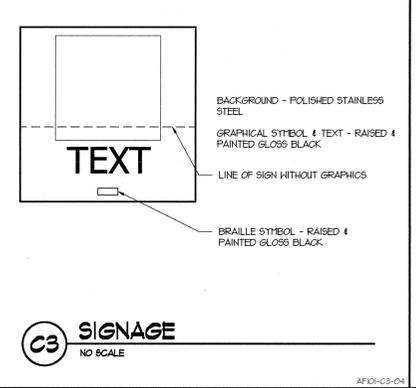
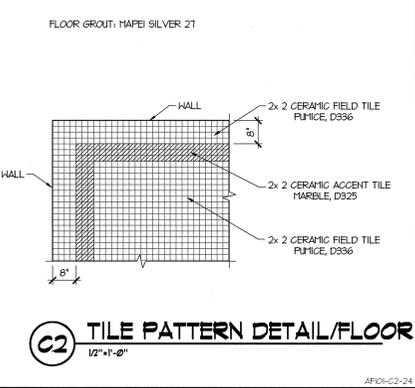
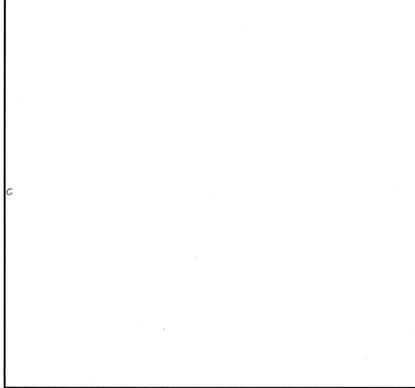
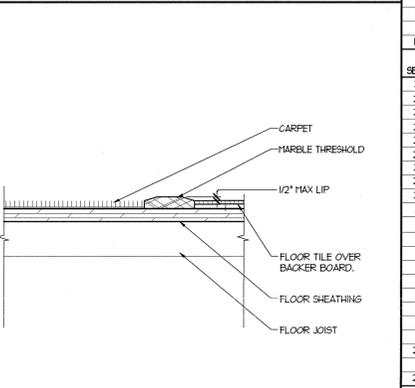
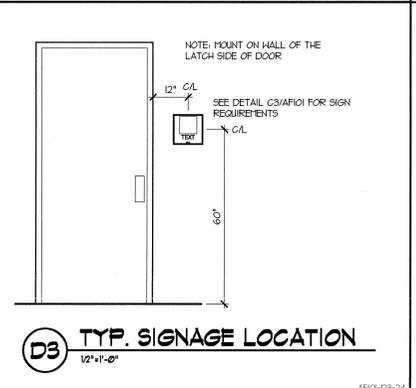
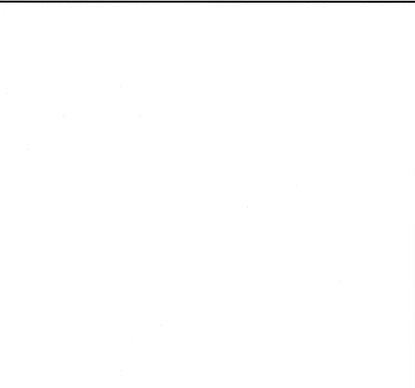
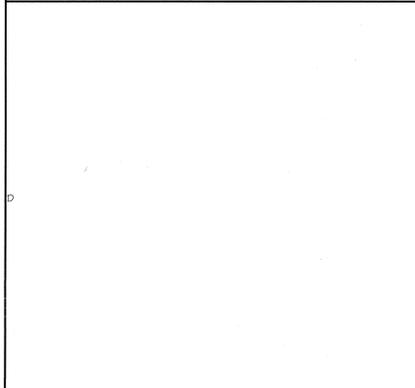
**DOOR SCHEDULE & DOOR TYPES**

**AE601**





ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	HALL FINISH				WOOD TRIM	CEILING FINISH	SPECIAL	KEY NOTES
				N	E	S	H				
<b>BASMENT LEVEL</b>											
001	EXISTING VAULT	-	-	H3	H3	H3	H3	-	-	-	②
002	ELEVATOR MECHANICAL ROOM	F4	-	-	-	-	-	-	C3	-	②
003	ELEVATOR PIT	F4	-	H3	H3	H3	H3	-	-	-	②
<b>MAIN LEVEL</b>											
101	EAST STAIR 'A'	F1	B2	H1	H1	H1	H1	T2	C1	E5	②
102	ELECTRICAL/COMM. ROOM	F4	B1	H1	H1	H1	H1	-	C1	-	②
103	CLASSROOM A	F1	B1	H1	H1	H1	H1	-	C1	E3, E6, E1, E2, E8, E20	②
104	CLASSROOM B	F1	B1	H1	H1	H1	H1	-	C1	E3, E6, E1, E2, E8, E20	②
105	STUDENT LOUNGE	F1	B2	H1	H1	H1	H1	T2	C1	-	②
105A	MECHANICAL ROOM	F1	B1	H1	H1	H1	H1	-	C1	-	②
106	WEST STAIR 'C'	F1	B2	H1	H1	H1	H1	T2	C1	E5, E10	②
107	MEN RESTROOM	F3	B3	H2	H2	H2	H2	-	C1	SEE DETAIL CVAE403	② ③ ⑥
108	WOMEN RESTROOM	F3	B3	H2	H2	H2	H2	-	C1	SEE DETAIL CVAE403	② ③ ⑥
109	NOT USED	-	-	-	-	-	-	-	-	-	②
110	ELECTRICAL ROOM	F4	B1	H1	H1	H1	H1	-	C1	-	②
111	STUDENT INSTRUCTIONAL MAT. PROD.	F1	B1	H1	H1	H1	H1	-	C1	E1, E2, E8	②
112	NORTH STAIR 'B'	F1	B2	H1	H1	H1	H1	-	C1	-	②
112A	FIRE SERVICE	F4	B1	H1	H1	H1	H1	-	C1	-	②
113	STORAGE	F1	B1	H1	H1	H1	H1	-	C1	-	②
114	FIELD SERVICE SEC. AND RECEPTION	F1	B2	H1	H1	H1	H1	T2	C1	-	④
115	FIELD SERVICE DIRECTOR	F1	B1	H1	H1	H1	H1	-	C1	-	④
116	COPY AND MAIL/ARCH. ROOM	F1	B1	H1	H1	H1	H1	-	C1	E11, E18	④
117	FIELD SERVICE ADVISOR	F1	B1	H1	H1	H1	H1	-	C1	-	④
118	F.S. STUDENT WORKSTATIONS	F1	B2	H1	H1	H1	H1	T2	C1	E11, E18	④ ⑤
119	STUDENT LOUNGE	F1	B2	H1	H1	H1	H1	T2	C1	-	④
120	ELEVATOR CAR	-	-	-	-	-	-	-	-	-	①
<b>SECOND LEVEL</b>											
201	EAST STAIR 'A'	F1	B2	H1	H1	H1	H1	T2	C1	-	②
202	ELECTRICAL ROOM	F5	B1	H1	H1	H1	H1	-	C1	-	②
203	ELEMENTARY EDUCATION CHAIR	F1	B4	H1	H1	H1	H1	-	C1	-	④
204	SECONDARY EDUCATION SECRETARY	F1	B4	H1	H1	H1	H1	-	C1	-	④
205	SECONDARY EDUCATION CHAIR	F1	B4	H1	H1	H1	H1	-	C1	-	④
206	SHARED REG. MATERIALS STORAGE	F1	B1	H1	H1	H1	H1	-	C1	E11, E18	④
207	SHARED OFFICE SUPPORT	F1	B1	H1	H1	H1	H1	-	C1	E11, E18	④ ⑤
208	CONFERENCE	F1	B1	H1	H1	H1	H1	T1/T2	C1	E3, E4	④
209	WOMEN RESTROOM	F3	B3	H2	H2	H2	H2	-	C1	SEE DETAIL CVAE403, E10	④ ⑤ ⑥
210	MEN RESTROOM	F3	B3	H2	H2	H2	H2	-	C1	SEE DETAIL CVAE403, E10	④ ⑤ ⑥
211	WEST STAIR 'C'	F1	B2	H1	H1	H1	H1	T2	C1	-	④
212	NOT USED	-	-	-	-	-	-	-	-	-	④
213	STORAGE	F1	B1	H1	H1	H1	H1	-	C1	E5	④ ⑤
214	SECRETARY	F1	B1	H1	H1	H1	H1	-	C1	-	④
215	DEAN'S OFFICE	F1	B4	H1	H1	H1	H1	-	C1	-	④
216	NOT USED	-	-	-	-	-	-	-	-	-	④
217	NORTH STAIR 'B'	F1	B2	H1	H1	H1	H1	-	C2	-	④
218	SECRETARY	F1	B1	H1	H1	H1	H1	-	C1	-	④
219	ASSOC. DEAN OFFICE	F1	B4	H1	H1	H1	H1	-	C1	-	④
220	WORK ROOM	F1	B1	H1	H1	H1	H1	-	C1	E11, E18	④ ⑤
221	ADVISOR	F1	B4	H1	H1	H1	H1	-	C1	-	④
222	RECEPTION/WAITING AREA	F1	B2	H1	H1	H1	H1	T2	C1	SEE DETAIL AVAE404	④ ⑤ ⑥
<b>THIRD LEVEL</b>											
301	EAST STAIR 'A'	F1	B2	H1	H1	H1	H1	T2	C1/C2	-	②
302	ELECTRICAL/COMMUNICATIONS	F5	B1	H1	H1	H1	H1	-	C1	-	②
303	DIST. LEARNING/GRAD. SEMINAR 'A'	F1/F2	B1	H1	H1	H1	H1	-	C1	E4, E11, E18, E19, E20	② ③
304	DIST. LEARNING/GRAD. SEMINAR 'B'	F1/F2	B1	H1	H1	H1	H1	-	C1	E4, E11, E18, E19, E20	② ③
305	DIST. LEARNING/GRAD. SEMINAR 'C'	F1/F2	B1	H1	H1	H1	H1	-	C1	E4, E11, E18, E19, E20	② ③
306	DEAN'S CONFERENCE & NGATE DOC.	F1	B2	H1	H1	H1	H1	-	C1	SEE DETAIL CVAE403, E4, E11, E18	② ④
307	CATERING	F1	B1	H1	H1	H1	H1	-	C1	E1, E2, E18	③
308	MEN RESTROOM	F3	B3	H2	H2	H2	H2	-	C1	SEE DETAIL CVAE403	③ ④ ⑤ ⑥
309	CUSTODIAN	F5	B1	H1	H1	H1	H1	-	C1	E4, E5	③ ⑤
310	WOMEN RESTROOM	F3	B3	H2	H2	H2	H2	-	C1	SEE DETAIL CVAE403	③ ④ ⑤ ⑥
311	FILES/STORAGE	F1	B1	H1	H1	H1	H1	-	C1	E11, E18	③
312	STUDENT WORKSTATIONS	F1	B2	H1	H1	H1	H1	-	C1	E11, E18	③
313	NORTH STAIR 'B'	F1	B2	H1	H1	H1	H1	-	C1/C2	-	③
314	SECRETARY	F1	B1	H1	H1	H1	H1	-	C1	-	④
315	GRADUATE EDUCATION CHAIR	F1	B4	H1	H1	H1	H1	-	C1	-	④
316	GRADUATE ADVISOR	F1	B1	H1	H1	H1	H1	-	C1	-	④
317	SECRETARY	F1	B1	H1	H1	H1	H1	-	C1	-	④
318	ATTIC ACCESS	F1	B1	H1	H1	H1	H1	-	C1	E16	④ ⑤
319	RECEPTION/WAITING AREA	F1	B2	H1	H1	H1	H1	T2	C1	-	① ④
320	FILES/STORAGE	F1	B1	H1	H1	H1	H1	-	C1	E11, E18	③
<b>CEILING</b>											
C1	SEE REFLECTED CEILING PLAN AEO3										
C2	PAINTED GYPSUM BOARD ATTACHED DIRECTLY TO STAIR STRUCTURE. IHR RATED. SEE D6/AESOL.										
C3	PAINTED GYPSUM BOARD ATTACHED TO STRUCTURE ABOVE.										
C4	FLOOR/CEILING SOUND ASSEMBLY. SEE E6/AESOL.										
<b>F FLOOR</b>											
F1	CARPET										
F2	PROVIDE FLOOR/CEILING SOUND ASSEMBLY AS SHOWN ON E6/AESOL FOR ALL CEILING AREAS UNDER THE ROOM.										
F3	FLOOR TILE										
F4	SEALED CONCRETE										
<b>B BASE</b>											
B1	4" RUBBER BASE 1/8" THICK MIN.										
B2	WOOD BASE - SEE DETAIL B2/AFOI										
B3	CERAMIC TILE BASE - SEE DETAIL A4/AFOI										
B4	WOOD BASE - SEE DETAIL A2/AFOI										
<b>H HALLS</b>											
H1	PAINTED GYPSUM BOARD										
H2	6" CERAMIC TILE W/ANSOT WITH PAINTED GYPSUM BOARD ABOVE - SEE DETAIL A4/AFOI COORD. W/ INTERIOR ELEVATIONS.										
H3	EXPOSED CONCRETE										
<b>T WOOD TRIM</b>											
T1	CHAIR RAIL - SEE DETAIL A1/AFOI										
T2	PICTURE RAIL - SEE DETAIL B1/AFOI										
<b>E SPECIAL AND EQUIPMENT</b>											
E1	REFRIGERATOR	E11 HALL MOUNTED COUNTERTOP. COORD. W/ INTERIOR ELEVATIONS.									
E2	MICROWAVE	E12 BASE CABINETS & COUNTERTOP. COORD. W/ INTERIOR ELEVATIONS.									
E3	RETRACTABLE SCREEN, ELECTRIC. COORD. W/ ELECTRICAL.	E13 HALL MOUNTED UPPER CABINETS. COORD. W/ INTERIOR ELEVATIONS.									
E4	VISUAL DISPLAY CONFERENCE UNIT.	E14 HOP & BROOM RACK.									
E5	RECESSED ENTRY MAT - MATS INC. -RUST	E15 HEAVY DUTY ADJUSTABLE SHELVES. SEE INTERIOR ELEVATIONS FOR NUMBER OF SHELVES. IF NOT SHOWN, PROVIDE 3 SHELVES.									
E6	4x12 WHITE BOARD.	E16 ATTIC ACCESS LADDER.									
E7	4x8 WHITE BOARD.	E17 LECTURN									
E8	4x6 WHITE BOARD.	E18 ELHO									
E9	CEILING MOUNTED PROJECTOR. COORD. W/ ELECTRICAL.	E19 52" PLASMA TV									
E10	AUTOMATIC DOOR OPERATORS.										
<b>KEY NOTES</b>											
1. SEE INTERIOR ELEVATIONS FOR TILE FINISH (FLOOR & WALL) AROUND DRINKING FOUNTAIN.											
2. PROVIDE 1/2" PLTHOOD (OVER GYP. BOARD) WHERE REQUIRED FOR MOUNTING ELECTRICAL & COMMUNICATION EQUIPMENT.											
3. PROVIDE 2x6 BLOCKING BEHIND ALL AREAS TO RECEIVE WALL MOUNTED ACCESSORIES. (E4, E6, E11, E18, E19, E2, E3, E4, E5, E16, E19)											
4. PROVIDE BLOCKING REQUIRED FOR SYSTEMS FURNITURE (BY OWNER). COORD. W/ OWNER FOR REQUIREMENTS.											
5. COORD. W/ INTERIOR ELEVATIONS FOR TILE REQUIREMENT AROUND HOP SINK.											
6. COORD. W/ INTERIOR ELEVATIONS & SPECIFICATIONS FOR TOILET ROOM ACCESSORIES.											



ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	HALL FINISH				WOOD TRIM	CEILING FINISH	SPECIAL	KEY NOTES
				N	E	S	H				
<b>CEILING</b>											
C1	SEE REFLECTED CEILING PLAN AEO3										
C2	PAINTED GYPSUM BOARD ATTACHED DIRECTLY TO STAIR STRUCTURE. IHR RATED. SEE D6/AESOL.										
C3	PAINTED GYPSUM BOARD ATTACHED TO STRUCTURE ABOVE.										
C4	FLOOR/CEILING SOUND ASSEMBLY. SEE E6/AESOL.										
<b>F FLOOR</b>											
F1	CARPET										
F2	PROVIDE FLOOR/CEILING SOUND ASSEMBLY AS SHOWN ON E6/AESOL FOR ALL CEILING AREAS UNDER THE ROOM.										
F3	FLOOR TILE										
F4	SEALED CONCRETE										
<b>B BASE</b>											
B1	4" RUBBER BASE 1/8" THICK MIN.										
B2	WOOD BASE - SEE DETAIL B2/AFOI										
B3	CERAMIC TILE BASE - SEE DETAIL A4/AFOI										
B4	WOOD BASE - SEE DETAIL A2/AFOI										
<b>H HALLS</b>											
H1	PAINTED GYPSUM BOARD										
H2	6" CERAMIC TILE W/ANSOT WITH PAINTED GYPSUM BOARD ABOVE - SEE DETAIL A4/AFOI COORD. W/ INTERIOR ELEVATIONS.										
H3	EXPOSED CONCRETE										
<b>T WOOD TRIM</b>											
T1	CHAIR RAIL - SEE DETAIL A1/AFOI										
T2	PICTURE RAIL - SEE DETAIL B1/AFOI										
<b>E SPECIAL AND EQUIPMENT</b>											
E1	REFRIGERATOR	E11 HALL MOUNTED COUNTERTOP. COORD. W/ INTERIOR ELEVATIONS.									
E2	MICROWAVE	E12 BASE CABINETS & COUNTERTOP. COORD. W/ INTERIOR ELEVATIONS.									
E3	RETRACTABLE SCREEN, ELECTRIC. COORD. W/ ELECTRICAL.	E13 HALL MOUNTED UPPER CABINETS. COORD. W/ INTERIOR ELEVATIONS.									
E4	VISUAL DISPLAY CONFERENCE UNIT.	E14 HOP & BROOM RACK.									
E5	RECESSED ENTRY MAT - MATS INC. -RUST	E15 HEAVY DUTY ADJUSTABLE SHELVES. SEE INTERIOR ELEVATIONS FOR NUMBER OF SHELVES. IF NOT SHOWN, PROVIDE 3 SHELVES.									
E6	4x12 WHITE BOARD.	E16 ATTIC ACCESS LADDER.									
E7	4x8 WHITE BOARD.	E17 LECTURN									
E8	4x6 WHITE BOARD.	E18 ELHO									
E9	CEILING MOUNTED PROJECTOR. COORD. W/ ELECTRICAL.	E19 52" PLASMA TV									
E10	AUTOMATIC DOOR OPERATORS.										
<b>KEY NOTES</b>											
1. SEE INTERIOR ELEVATIONS FOR TILE FINISH (FLOOR & WALL) AROUND DRINKING FOUNTAIN.											
2. PROVIDE 1/2" PLTHOOD (OVER GYP. BOARD) WHERE REQUIRED FOR MOUNTING ELECTRICAL & COMMUNICATION EQUIPMENT.											
3. PROVIDE 2x6 BLOCKING BEHIND ALL AREAS TO RECEIVE WALL MOUNTED ACCESSORIES. (E4, E6, E11, E18, E19, E2, E3, E4, E5, E16, E19)											
4. PROVIDE BLOCKING REQUIRED FOR SYSTEMS FURNITURE (BY OWNER). COORD. W/ OWNER FOR REQUIREMENTS.											
5. COORD. W/ INTERIOR ELEVATIONS FOR TILE REQUIREMENT AROUND HOP SINK.											
6. COORD. W/ INTERIOR ELEVATIONS & SPECIFICATIONS FOR TOILET ROOM ACCESSORIES.											

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BY CRS ARCHITECTS

BID DOCUMENT 1/16/06  
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ARCHITECT PROJECT NO.: B04-012  
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DTN

PLUMBING  
GENERAL  
NOTES AND  
LEGENDS

P001

PLUMBING LEGEND

MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	---	WALL CLEANOUT	WCO
COLD WATER LINE	----	CLEANOUT	CO
VENT LINE	----	CLEANOUT TO GRADE	COTG
WASTE LINE	----	FLOOR CLEANOUT	FCO
GAS LINE	—G—	BALL VALVE	⊕
VENT THRU ROOF	VTR	UNION	— —
CONNECTION TO EXISTING PIPING	⊕		

GENERAL LEGEND

NOT ALL SYMBOLS LISTED BELOW ARE USED ON THIS SET OF PLUMBING DRAWINGS

SYMBOL	ABR.	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AP	ACCESS PANEL
	CI	CAST IRON
	CL	CENTER LINE ELEVATION
	CC	CONTROL CONTRACTOR
	EC	ELECTRICAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	GC	GENERAL CONTRACTOR
INV. ELEV.		INVERT ELEVATION
	MC	MECHANICAL CONTRACTOR
	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
WH-1		PLUMBING FIXTURE AND/OR EQUIPMENT DESIGNATION (TYPICAL)

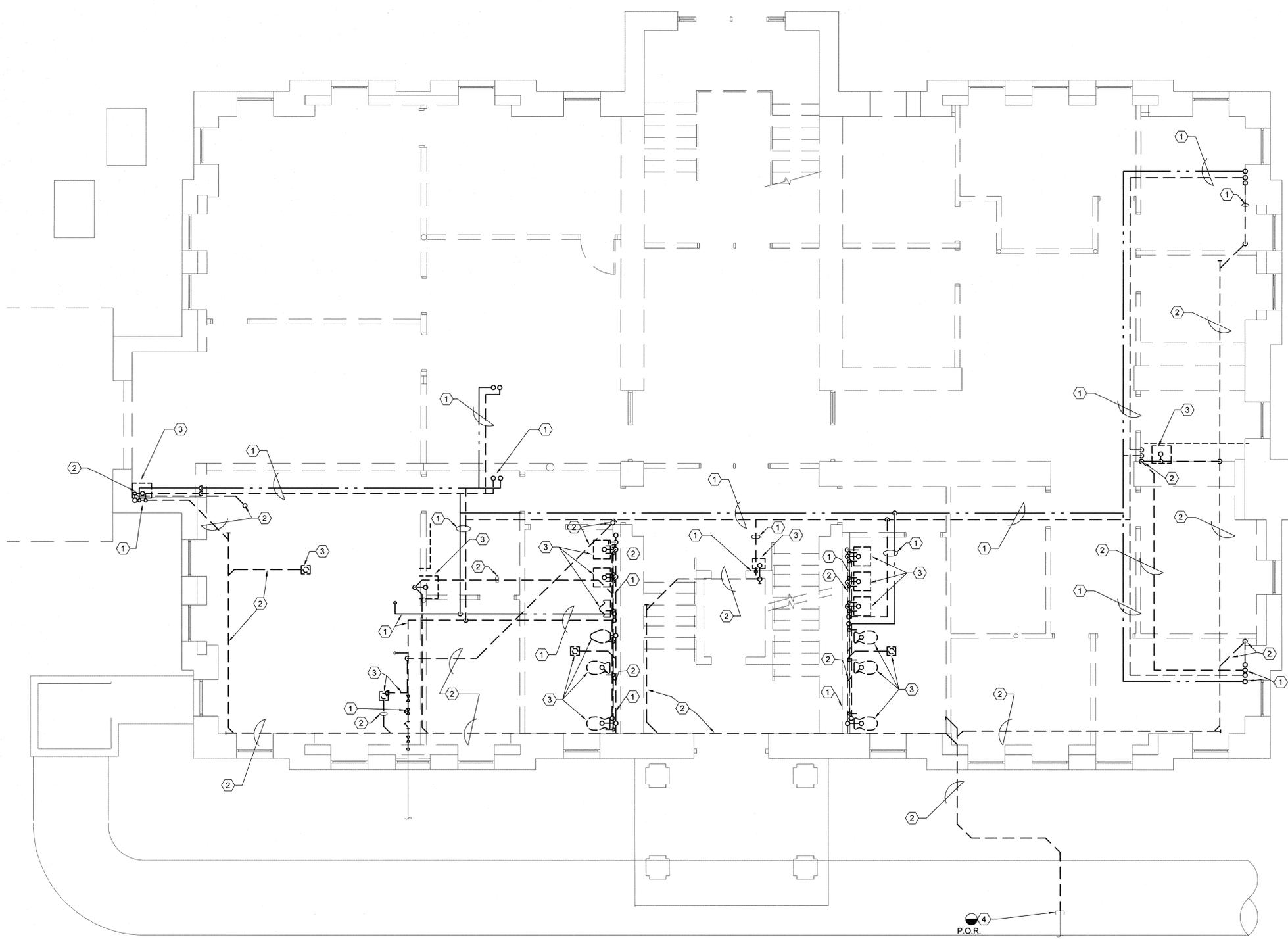
PLUMBING CONSTRUCTION NOTES:

- G-1 ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH AMENDMENTS.
- G-2 ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY.
- G-3 ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.
- G-4 PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH IPC WITH UTAH AMENDMENTS.
- G-5 ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
- G-6 THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING INSTALLATION SHALL BE COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- G-7 COORDINATE THE INSTALLATION AND LOCATIONS OF ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
- G-8 ANY AND ALL ALTERATION TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-9 ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANS/NSF STANDARD 61 LATEST EDITION, CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
- G-10 WATER PIPING SHALL NOT BE INSTALLED OR ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.
- G-11 WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPENING OR QUICK CLOSING VALVES.
- G-12 WATER HAMMER ARRESTOR SCHEDULE:  
TYPE A 1-11 FIXTURE UNITS  
TYPE B 12-32 FIXTURE UNITS  
TYPE C 33-60 FIXTURE UNITS  
TYPE D 61-113 FIXTURE UNITS
- G-13 SUPPORT ALL PIPING INDEPENDENTLY OF EQUIPMENT.
- G-14 ALL EQUIPMENT CONNECTED TO GAS OR WATER SHALL HAVE AN ISOLATION VALVE.
- G-15 COORDINATE PIPE PENETRATIONS OF FIRE-RATED WALLS WITH ARCHITECTURAL DETAILS AE506-AE508.

**GENERAL NOTE:**  
THE INTENT OF THESE DRAWINGS IS TO REMOVE ALL OF THE EXISTING PLUMBING, IE. FIXTURES, PIPING, VALVES, VENTS, ETC.

**SHEET NOTES:**

- ① EXISTING CULINARY HOT AND COLD WATER PIPING, VALVES, AND ALL ASSOCIATED ACCESSORIES THROUGH OUT THE BUILDING SHALL BE REMOVED. FIELD VERIFY LOCATIONS OF ALL CULINARY WATER PIPING.
- ② EXISTING SEWER, WASTE AND VENT PIPING, CLEANOUTS, AND ALL ASSOCIATED ACCESSORIES SHALL BE REMOVED. FIELD VERIFY EXISTING LOCATIONS OF ALL PIPING.
- ③ EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, VALVES AND ACCESSORIES SHALL BE REMOVED. FIELD VERIFY NUMBER OF FIXTURES AND LOCATIONS.
- ④ CAP EXISTING BUILDING WASTE LINE AT THIS APPROXIMATE LOCATION IN EXISTING TUNNEL FOR RECONNECTION TO NEW WASTE LINE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING PIPING.
- ⑤ DRAWINGS SHOW APPROXIMATE LOCATIONS OF PIPING, FIXTURES, ETC. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING ITEMS NOTED.



**FIRST FLOOR DEMO PLAN**  
SCALE: 1/4" = 1'-0"



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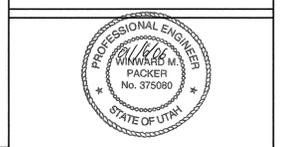
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**PLUMBING  
DEMO. 1ST  
FLOOR PLAN**

**PD101**