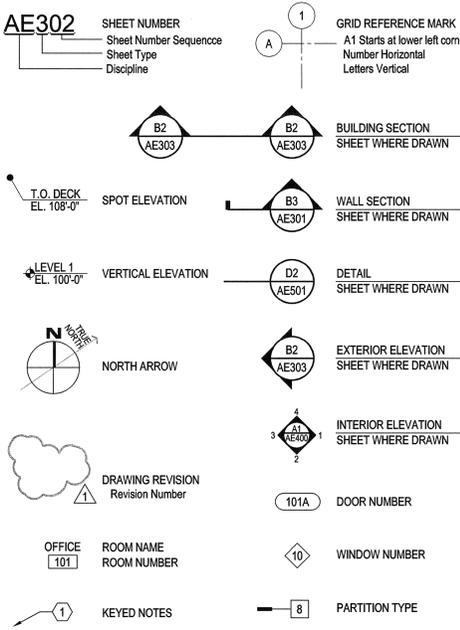


ABBREVIATIONS

AC	Air Conditioning	EXP	Expansion	OA	Overall
AFF	Above Finish Floor	EXT	Exterior	OC	On Center
ALT	Alternate	FD	Floor Drain	OD	Outside Diameter
APPROX	Approximate	FDN	Foundation	OH DR	Overhead Door
ARCH	Architect	FE	Fire Extinguisher	OPP	Opposite
BD	Board	FIN	Finish	PLBG	Plumbing
BLDG	Building	FIN FLR	Finish Floor	PERP	Perpendicular
BLKG	Blocking	FLR	Floor	PL	Property Line
BOT	Bottom	FR	Frame	PL GL	Plate Glass
BRG	Bearing	FT	Feet	PLAM	Plastic Laminate
CIP	Cast in Place	FTG	Footing	PR	Pair
CJ	Control Joint	GA	Gage	PREFAB	Prefabricate
CL	Center Line	GALV	Galvanize	RD	Roof Drain
CLG	Ceiling	GI	Galvanized Iron	RPLC	Replace
CMU	Concrete Masonry	GLU-LAM	Glue Laminated	REFR	Refrigeration
CO	Cleanout	GYP BD	Gypsum Board	REINF	Reinforce
COMM	Communication	HC	Handicap	REQD	Required
CONC	Concrete	HDW	Hardware	SCHED	Schedule
CONF	Conference	HM	Hollow Metal	SIM	Similar
CONSTR	Construction	HORIZ	Horizontal	SPEC	Specification
CONT	Continue	HVAC	Heating Ventilation & Air Conditioning	SQ	Square
CONTR	Contractor	ID	Inside Diameter	STD	Standard
COORD	Coordinate	INT	Interior	STRUCT	Structural
CORR	Corridor	ISO	Isometric	SUSP CLG	Suspended Ceiling
CSK	Countersunk	JAN	Janitor	T&G	Tongue and Groove
DEMO	Demolition	KD	Knock Down	THK	Thick
DIAG	Diagonal	KOP	Knockout Panel	TO	Top Of
DIA	Diameter	LAB	Laboratory	TOB	Top of Beam
DIM	Dimension	LAV	Lavatory	TOS	Top of Slab
DN	Down	MAINT	Maintenance	TOW	Top of PARTITION
DS	Downspout	MAX	Maximum	TYP	Typical
DWG	Drawing	MECH	Mechanical	UNO	Unless Noted
EIFS	Exterior Insulation, & Finish System	MFR	Manufacturer	VC	Vinyl Composition Tile
EJ	Expansion Joint	MO	Masonry Opening	VERT	Vertical
EL	Elevation	MEZZ	Mezzanine	VEST	Vestibule
ELEC	Electric	MIN	Minimum	VM	Verify With Mfr.
ELEV	Elevator	MISC	Miscellaneous	VIF	Verify In Field
EQ	Equal	NOM	Nominal	VTR	Vent Through Roof
EQUIP	Equipment	NIC	Not In Contract	W	With
EWC	Electric Water Cooler	NO	Number	WC	Water Closet
EXIST	Existing, (E)	NTS	Not to Scale	WH	Water Heater
				WWF	Welded Wire Fabric
				XFMR	Transformer

GENERAL SYMBOLS

SEE PLUMBING, MECHANICAL AND ELECTRICAL FOR DISCIPLINE SYMBOLS



MATERIALS

	EARTH		BRICK		GYPSUM BOARD
	GRAVEL		STONE		EIFS
	CONCRETE		PRE-CAST CONCRETE		BATT INSULATION
	CMU		WOOD & BLOCKING		RIGID INSULATION

SOUTHERN UTAH UNIVERSITY

SHARWAN SMITH CENTER

AUDITORIUM REMODEL

UTAH STATE DIVISION OF FACILITIES CONSTRUCTION
& MANAGEMENT - DFCM PROJECT NO. 09013730

CONSTRUCTION DOCUMENTS

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	2006
International Plumbing Code	2006	International Fire Code	2006
International Fire Code	2006	International Fuel & Gas Code	1994
International Energy Conservation Code	2006		

- A. Occupancy and Group: A3 (NOT SMOKE PROTECTED)
Change in Use: Yes No Mixed Occupancy: Yes No
- B. Seismic Design Category: D Design Wind Speed: 90 mph
- C. Type of Construction (circle one):
 I/A I/B II/A II/B III/A III/B IV/A IV/B
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the separation distance (in hours):
 North: 0 South: 0 East: 0 West: 0
- E. Mixed Occupancies: NA Nonseparated Uses: YES
 1) Required Separation between Occupancies (IBC 2006 - Table 508.3.3)

Separation between Group A3 and Group B = 1 hour (2006 IBCTABLE 508.3.3)
Separation walls between existing Auditorium and adjacent B occupancies are existing and are to remain in place.

- F. Sprinklers:
Required: Provided: Type of Sprinkler System: WET PIPE PER 903.3.1.1
- G. Number of Stories: 1 Building Height: 20 Feet
- H. Actual Area per Floor (square feet): 3,836 (of existing area to receive tenant finish)
- I. Tabular Area: N/A
- J. Area Modifications:
NOT APPLICABLE INTERIOR FINISH ONLY. NO AREA MODIFICATIONS BEING MADE.
- d) Unlimited Area Building: Yes No Code Section: _____
- K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	1	EXIST.*
Interior Bearing Walls	0		Roofs - Ceiling Roofs	1	EXIST.*
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	1	EXIST.*	Shaft Enclosures	1	EXIST.*
Partitions - Permanent	0		Fire Walls	0	
Fire Barriers	1	EXIST.*	Fire Partitions	0	
			Smoke Partitions	0	

* All fire rated assemblies are existing & are to remain in place, unchanged by tenant finish work. See specifications manual section 07843 for through penetration firestop systems schedule.

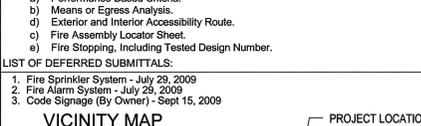
L. Design Occupant Load: 287
Exit Width Required: 44 IN Exit Width Provided: 108 IN

M. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) 2 (f) 3 Provided (m) 3 (f) 5
 b) Lavatories - Required (m) 1 (f) 1 Provided (m) 2 (f) 2
 c) Bath Tubs or Showers: 0
 d) Drinking Fountains: 1 Service Sinks: 1

- FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 a) Performance Based Criteria.
 b) Means or Egress Analysis.
 c) Exterior and Interior Accessibility Route.
 d) Fire Assembly Locator Sheet.
 e) Fire Stopping, Including Tested Design Number.

- LIST OF DEFERRED SUBMITTALS:
 1. Fire Sprinkler System - July 29, 2009
 2. Fire Alarm System - July 29, 2009
 3. Code Signage (By Owner) - Sept 15, 2009

VICINITY MAP PROJECT LOCATION



INDEX TO DRAWINGS

- GENERAL**
 GI001 SHEET INDEX AND GENERAL INFORMATION
- ARCHITECTURAL**
 AE001 SITE PLAN & EXIT PLANS
 AE101 FLOOR PLAN
 AE102 UPPER FLOOR PLAN
 AC101 REFLECTED CEILING PLAN
 AE401 ENLARGED PLANS
 AE430 INTERIOR ELEVATIONS
 AE431 INTERIOR ELEVATIONS
 AE432 INTERIOR ELEVATIONS
 AE510 DETAILS
- MECHANICAL**
 M101 MECHANICAL FLOOR PLAN
 M201 MECHANICAL DETAILS
 M301 MECHANICAL SCHEDULES
- ELECTRICAL**
 E101 MAIN FLOOR POWER PLAN
 E102 UPPER FLOOR POWER PLAN
 E201 MAIN FLOOR LIGHTING PLAN
 E301 ELECTRICAL SCHEDULES
 E302 ELECTRICAL DETAILS

CONSULTANTS

STRUCTURAL
 REAVELEY ENGINEERS
 675 EAST 500 SOUTH, SUITE 400
 SALT LAKE CITY, UT 84102
 PHONE: (801) 486-3883
 FAX: (801)485-0911

MECHANICAL
 R.J. ROBINSON ENGINEERING, P.C.
 1135 NORTH MAIN, BUILDING B
 CEDAR CITY, UT 84720
 PHONE: (435) 867-1702
 FAX: (435) 867-1126

ELECTRICAL
 ROYAL ENGINEERING
 2335 SOUTH STATE STREET, SUITE #225
 PROVO, UT 84606
 PHONE: (801) 375-2228

MHTN ARCHITECTS
 MHTN Architects, Inc.
 420 East South Temple
 Suite 100
 Salt Lake City, Utah 84111
 TEL: 801.595.6700
 FAX: 801.595.6717
 www.mhtn.com

SUU SOUTHERN UTAH UNIVERSITY
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UTAH STATE DIVISION OF FACILITIES CONSTRUCTION MANAGEMENT

SUU SHARWAN SMITH CENTER
AUDITORIUM REMODEL
 STATE OF UTAH DIVISION OF FACILITIES CONSTRUCTION MANAGEMENT - DFCM PROJECT NO. 09013730



MHTN PROJECT NO. 2009516
 DFCM PROJECT NO. 09013730
 DRAWN BY: _____ CHECKED BY: _____

ISSUED:

NO.	DATE	DESCRIPTION

REVISIONS:

NO.	DATE	DESCRIPTION

SHEET NAME
SHEET INDEX AND GENERAL INFORMATION

CONSTRUCTION DOCUMENTS
 JUNE 08, 2009

SHEET NUMBER
GI001

GENERAL NOTES

1. PATCH AREA AFFECTED BY ADJACENT DEMOLITION SUFFICIENT TO ACCEPT NEW FINISH
2. PROTECT EXISTING CONDITIONS TO REMAIN FROM DEMOLITION ACTIVITIES.
3. REFER TO ELECTRICAL AND M.E.P. DOCUMENTS FOR ADDITIONAL ITEMS TO BE REMOVED / RELOCATED.
4. ALL CONCRETE IS EXISTING. CONTRACTOR TO NOTIFY ARCHITECT IF SLOPES OR STEPS DO NOT MEET BUILDING CODE REQUIREMENTS.
5. SEATING MANUFACTURER TO NOTE LOCATION AND NUMBER OF TRANSFER ARMS.
6. PROVIDE LEVEL SURFACE SLAB FOR ALL WHEEL CHAIR SPACES.

REMODELING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
3. CUT AND PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
4. CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL AND ELECTRICAL AS REQUIRED FOR INSTALLATION OF NEW WORK.
5. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
6. EXISTING MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE REMOVED FROM THE SITE BY THE OWNER. CONTRACTOR SHALL COORDINATE WITH THE OWNER.
7. THE CONTRACTOR SHALL COORDINATE PHASING OF THE WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
8. ALL CONSTRUCTION ACTIVITY IS TO BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTORS SHALL PROTECT OWNERS EXISTING CONSTRUCTION ADJACENT TO NEW CONSTRUCTION. AFTER WORK OF THIS CONTRACT, CLEAN EXISTING AREAS EFFECTED BY THE WORK TO THE OWNERS SATISFACTION.
9. CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY NEW CONSTRUCTION. MATCH EXISTING SURFACE FINISH & ALL MATERIALS.
10. CONTRACTOR SHALL REFER TO ENGINEERS DRAWINGS FOR REMOVAL OR MODIFICATIONS TO EXISTING STRUCTURAL MEMBERS.
11. REPLACE, REPAIR & FINISH ALL EXISTING WALLS WHERE AFFECTED BY DEMOLITION AND NEW CONSTRUCTION.
12. REPAIR & REPLACE FIRE PROOFING WHERE AFFECTED BY DEMOLITION & NEW CONSTRUCTION.
13. ALL PENETRATIONS THROUGH EXISTING FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED. SEE SPECIFICATION FOR FIRE STOP SCHEDULE.
14. ALL SUSPENDED ITEMS (CEILINGS, MECH./ELEC./ FIRE SPRINKLING ETC.) SHALL BE HUNG FROM ROOF GIRDERS OR BEAMS OR UNISTRUT SUPPORTED AT THE TOP CHORD OF GIRDERS OR BEAMS. DO NOT SUPPORT ITEMS FROM EXISTING ROOF DECKING.

KEYNOTES

1. MOTORIZED PLATFORM LIFT W/ 36"x60" PLATFORM & 42" HIGH GUARD PANELS, DOORS & GATES. PROVIDE AUTOMATIC FOLDING RAMP FOR PITLESS INSTALLATION. SEE SPECIFICATIONS.
2. HATCH INDICATES EXISTING 3 3/4" RECESSED CONC. SLAB TO HAVE FIR FLOORING ON SLEEPERS
3. T.S COLUMN INSIDE OF WALL CONSTRUCTION. ATTACH TO CONCRETE W/EXPANSION ANCHORS.
4. STAINLESS STEEL WALL MOUNTED HANDRAIL. SEE DETAILS D4 & D5 ON SHEET AE510.
5. STAINLESS STEEL FLOOR MOUNTED HANDRAIL/RAIL. SEE DETAIL D4/AE510.
6. STAINLESS STEEL TRANSITION BETWEEN FIR FLOORING & CARPET. SEE DETAIL C3/AE510
7. ACOUSTIC PANELS AT SIDEWALL SEE DETAILS B1 & D1 ON SHEET AE510.
8. CEILING MOUNTED PROJECTOR, BRACE MOUNTING POINT TO STRUCTURE ABOVE.
9. ADDITIONAL VERTICAL GRAB BAR @ ADA STALL, SEE DETAIL A4/AE432
10. NEW ADA HEIGHT E.W.C. TO REPLACE EXISTING STANDARD HEIGHT E.W.C., MATCH EXISTING MANUFACTURER.

FINISH SCHEDULE

- | | | | |
|---|--|---|--|
|  | F1: CARPET TILE - INTERFACE
STYLE: 1485402500
COLOR: 7800 "CRPSS SECTION" |  | P2: ACCENT PAINT
COLOR: SHERWIN WILLIAMS 6241 "ALEUTIAN"
FINISH: EGGSHELL |
|  | F2: FIR FLOORING - PAINTED BLACK |  | P3: CEILING PAINT
COLOR: SHERWIN WILLIAMS 0023 "PEWTER TANKARD"
FINISH: MATTE |
|  | F3: POLISHED SEALED CONCRETE |  | WF1: MAHARAM
PATTERN: REPLY 901880
COLOR: 014 HENNA |
| | |  | WF3: MAHARAM
PATTERN: REPLY 901880
COLOR: 011 ADOBE |
| | |  | WF2: MAHARAM
PATTERN: REPLY 901880
COLOR: 010 PEAT |
| | |  | WF4: MAHARAM
PATTERN: REPLY 901880
COLOR: 007 MIST |
- NOTE: 1. ALL BASE TO BE CARPET BASE TO MATCH CARPET TILE.
2. RUBBER STAIR ACCESSORIES TO BE ROPPE P193 BLACK BROWN.
3. PROVIDE RUBBER REDUCER STRIPS WHERE CARPET ABUTS SEALED CONCRETE FLOORS.

LEGEND

-  EXISTING WALL
-  STUD WALL TO DECK - (NEW TO CONTRACT)
-  PARTIAL HEIGHT STUD WALL - (NEW TO CONTRACT)
-  NEW DOOR TO CONTRACT
-  DIRECTION OF EXITING & EXIT LOAD
-  EXIT 1 HR OCC. SEP.
-  EXIT 1 HR OCC. ENCLOSURE

SUU SHARWAN SMITH CENTER
AUDITORIUM REMODEL
STATE OF UTAH DIVISION OF FACILITIES CONSTRUCTION
MANAGEMENT - DFCM PROJECT NO. 09013730

[Signature]
ARCHITECT

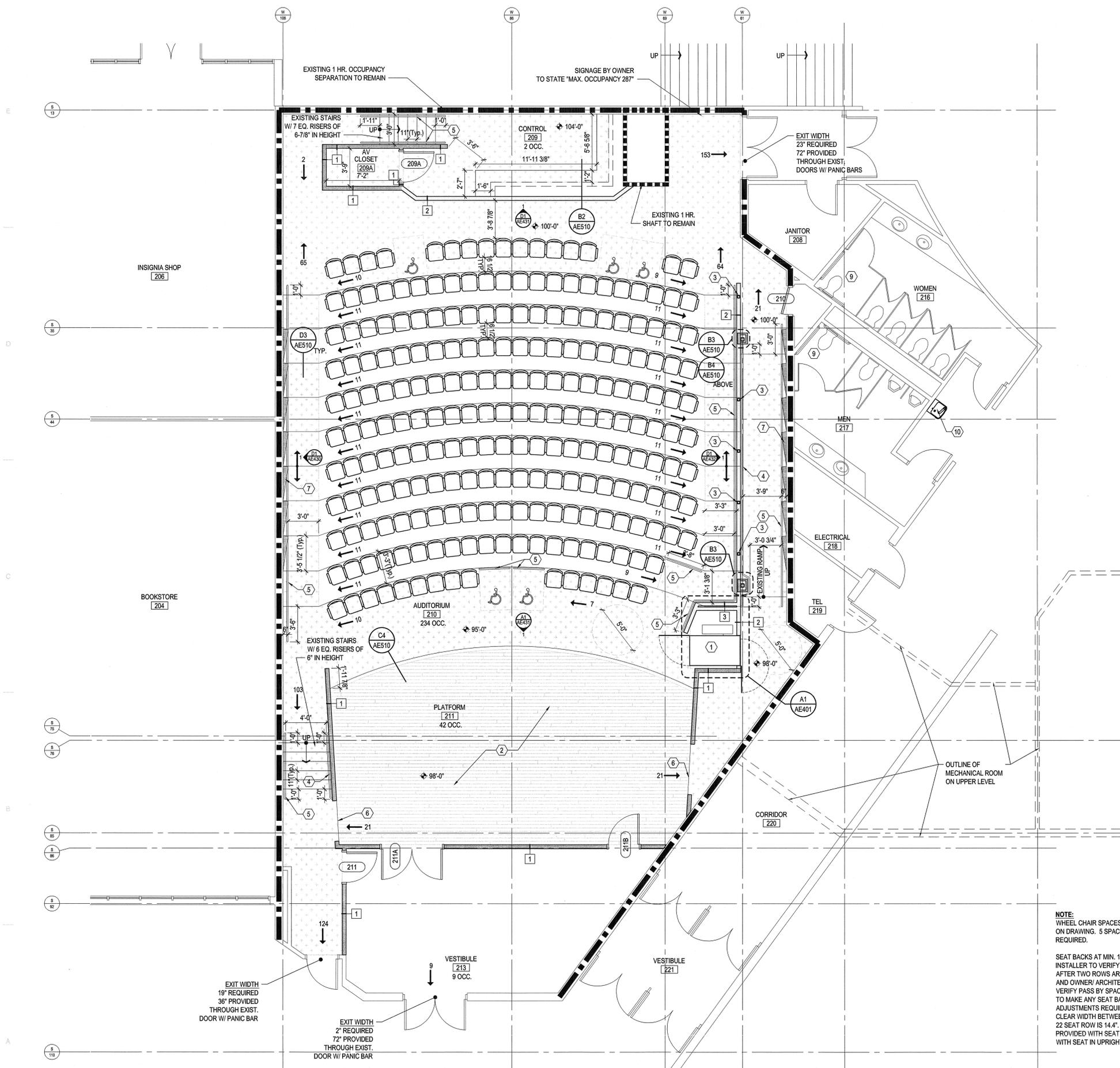
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DFCM PROJECT NO. 09013730
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SHEET NAME
FLOOR PLAN

CONSTRUCTION DOCUMENTS
JUNE 08, 2009

AE101

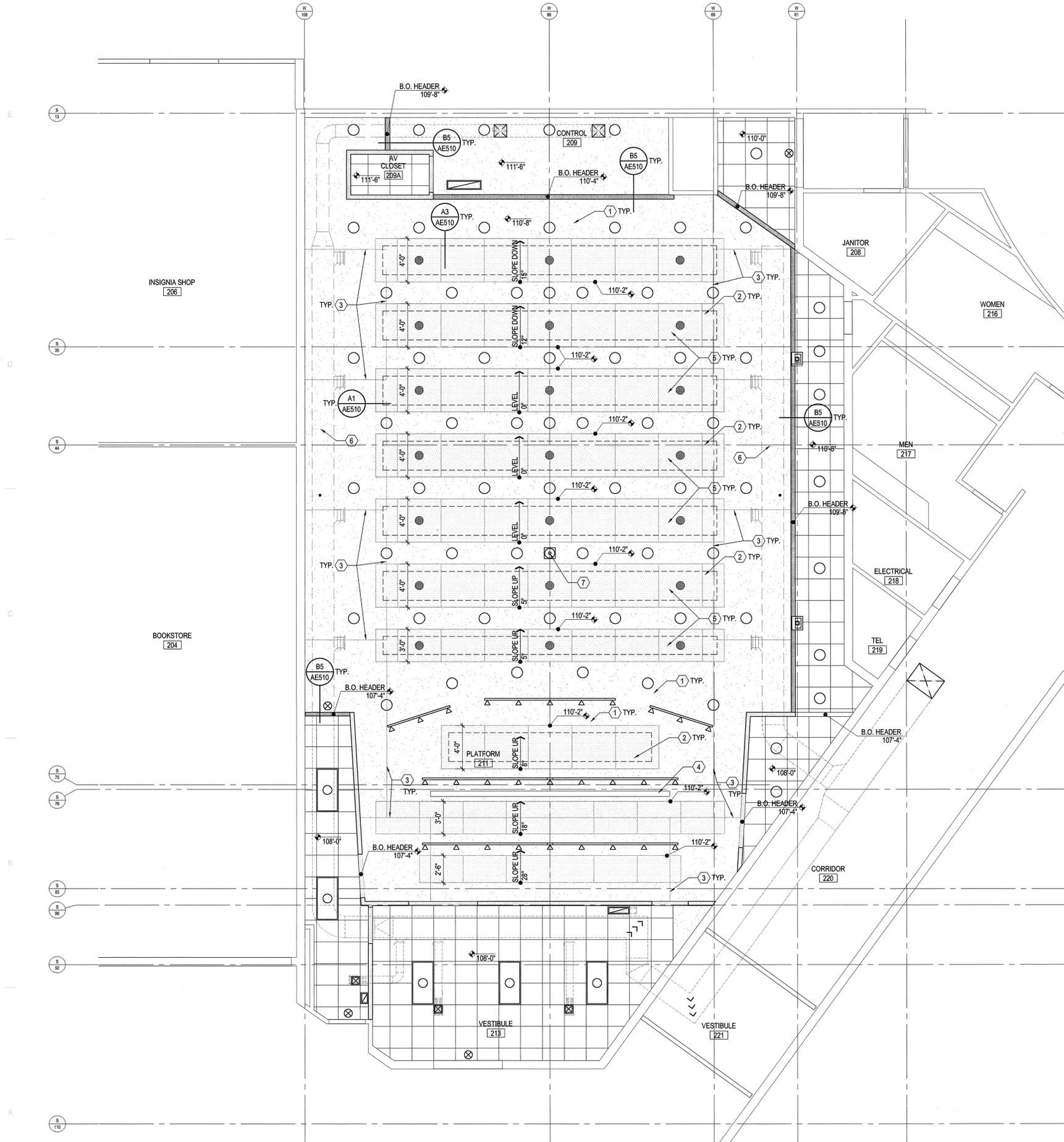


NOTE:
WHEEL CHAIR SPACES AS INDICATED ON DRAWING. 5 SPACES TOTAL REQUIRED.

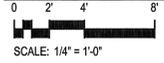
SEAT BACKS AT MIN. 18" BACK PITCH. INSTALLER TO VERIFY BACK PITCH AFTER TWO ROWS ARE INSTALLED AND OWNER/ARCHITECT CAN VERIFY PASS BY SPACE. INSTALLER TO MAKE ANY SEAT BACK PITCH ADJUSTMENTS REQUIRED. MIN. CLEAR WIDTH BETWEEN SEATS FOR 22 SEAT ROW IS 14.4". 15-1/2" PROVIDED WITH SEAT DOWN, 22-1/2" WITH SEAT IN UPRIGHT POSITION.



BY ARCHITECT: AUSTIN L. HARRIS
DATE: 06/08/09
PROJECT: SUU SHARWAN SMITH CENTER AUDITORIUM REMODEL



REFLECTED CEILING PLAN



GENERAL NOTES

1. NOTED CEILING HEIGHTS ARE ABSOLUTE.
2. LIGHT FIXTURES SHOWN FOR COORDINATION PURPOSES ONLY. RE: ELECTRICAL FOR LIGHT FIXTURE TYPES.
3. ALL GYP. BD. CEILINGS TO BE SMOOTH FINISH UNLESS NOTED OTHERWISE.
4. ALL EXPOSED STRUCTURE AND MECHANICAL TO BE PAINTED UNLESS NOTED OTHERWISE.
5. ALL FIRE SPRINKLER HEADS IN CEILING TILES TO BE CENTERED.
6. SEE DETAIL E5/AE510 FOR BRACING OF SUSPENDED CEILINGS.
7. SEE DETAIL E4/AE510 FOR CEILING SUSPENSION DETAIL BELOW DUCTWORK OR OTHER OBSTRUCTION.
8. ALL SUSPENDED ITEMS (CEILINGS, MECH./ELEC./ FIRE SPRINKLING ETC.) SHALL BE HUNG FROM ROOF GIRDERS OR BEAMS OR UNISTRUT SUPPORTED AT THE TOP CHORD OF GIRDERS OR BEAMS. DO NOT SUPPORT ITEMS FROM EXISTING ROOF DECKING.
9. FIRE SPRINKLER SYSTEM MODIFICATIONS FOR THE AUDITORIUM MUST MEET THE REQUIREMENTS OF THE STATE FIRE MARSHALL. SEE SPECIFICATIONS.

KEYNOTES

- 1 SUSPENDED GYP. BD. CEILING SYSTEM
- 2 OPENING IN SUSPENDED GYP. BD. CEILING SYSTEM ABOVE
- 3 1/4" V-GROOVE REVEAL
- 4 MOTORIZED PROJECTION SCREEN
- 5 ACOUSTIC FABRIC CEILING SYSTEM W/ CONCEALED GRID. SEE DETAILS B1 & D1 ON SHEET AE510 & SPECIFICATIONS.
- 6 EXPOSED PAINTED DUCTWORK
- 7 CEILING MOUNTED VIDEO PROJECTOR

LEGEND

- O.T.S. OPEN TO STRUCTURE
- SUSPENDED GYP. BD. CEILING SYSTEM
- 2' X 2' GRID CEILING W/ ACOUSTICAL CEILING TILES
- WALL TO DECK ABOVE
- 2 X 4 LIGHT FIXTURE
- 1 X 4 LIGHT FIXTURE
- THEATRICAL LIGHT TRACK RE: ELECTRICAL
- RECESSED LIGHT FIXTURES, RE: ELECTRICAL
- EXIT SIGNAGE
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- CEILING MOUNTED SPEAKER, RE: ELECTRICAL

MHTN ARCHITECTS
 MHTN Architects, Inc.
 420 East South Temple
 Suite 100
 Salt Lake City, Utah 84111
 TEL 801.595.6700
 FAX 801.595.6717
 www.mhtn.com

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UTAH STATE DIVISION OF FACILITIES
 CONSTRUCTION MANAGEMENT

SUU SHARWAN SMITH CENTER AUDITORIUM REMODEL
 STATE OF UTAH DIVISION OF FACILITIES CONSTRUCTION MANAGEMENT - DFCM PROJECT NO. 09013730

MHTN PROJECT NO. 2009-15
 DFCM PROJECT NO. 09013730
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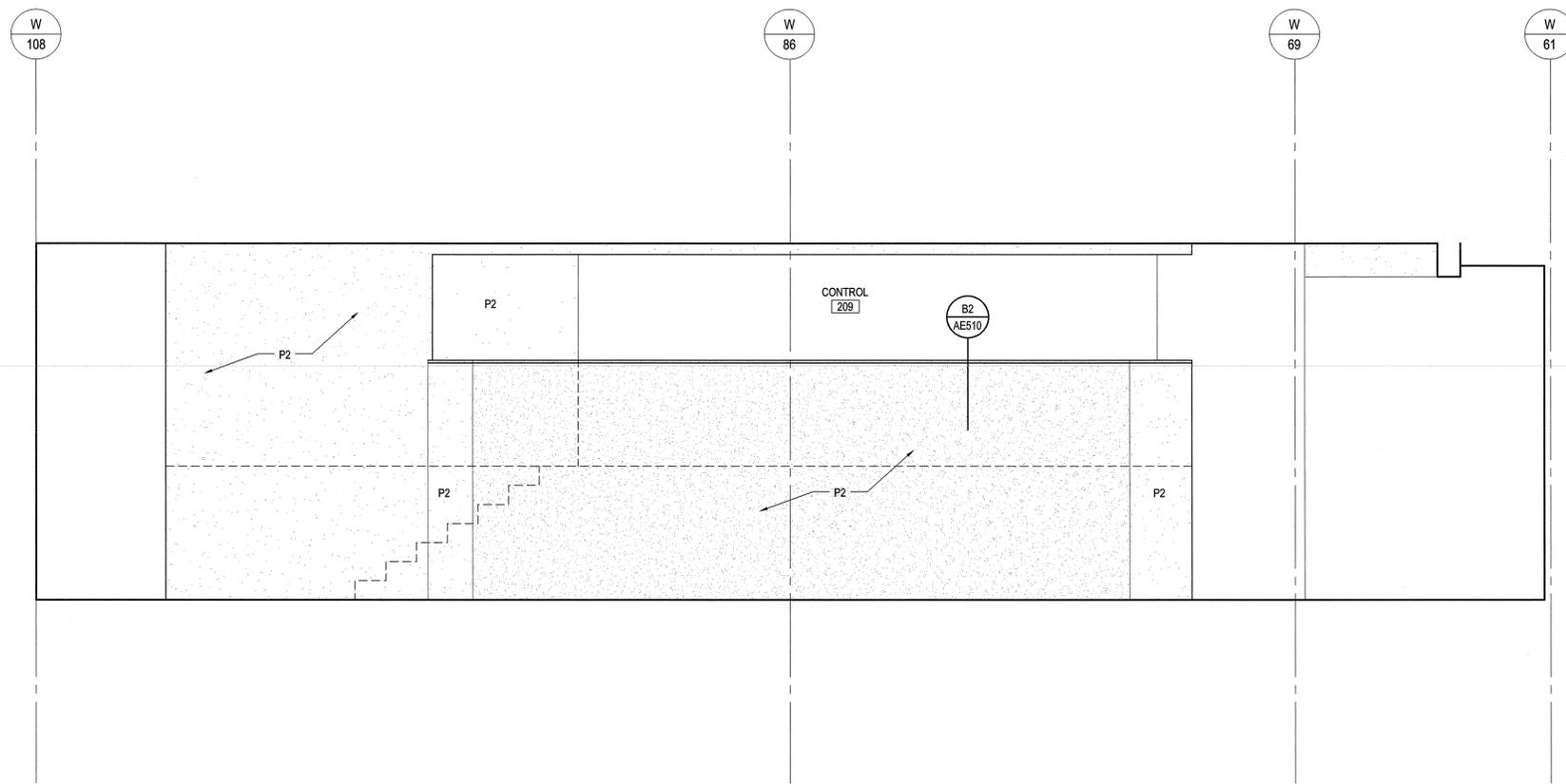
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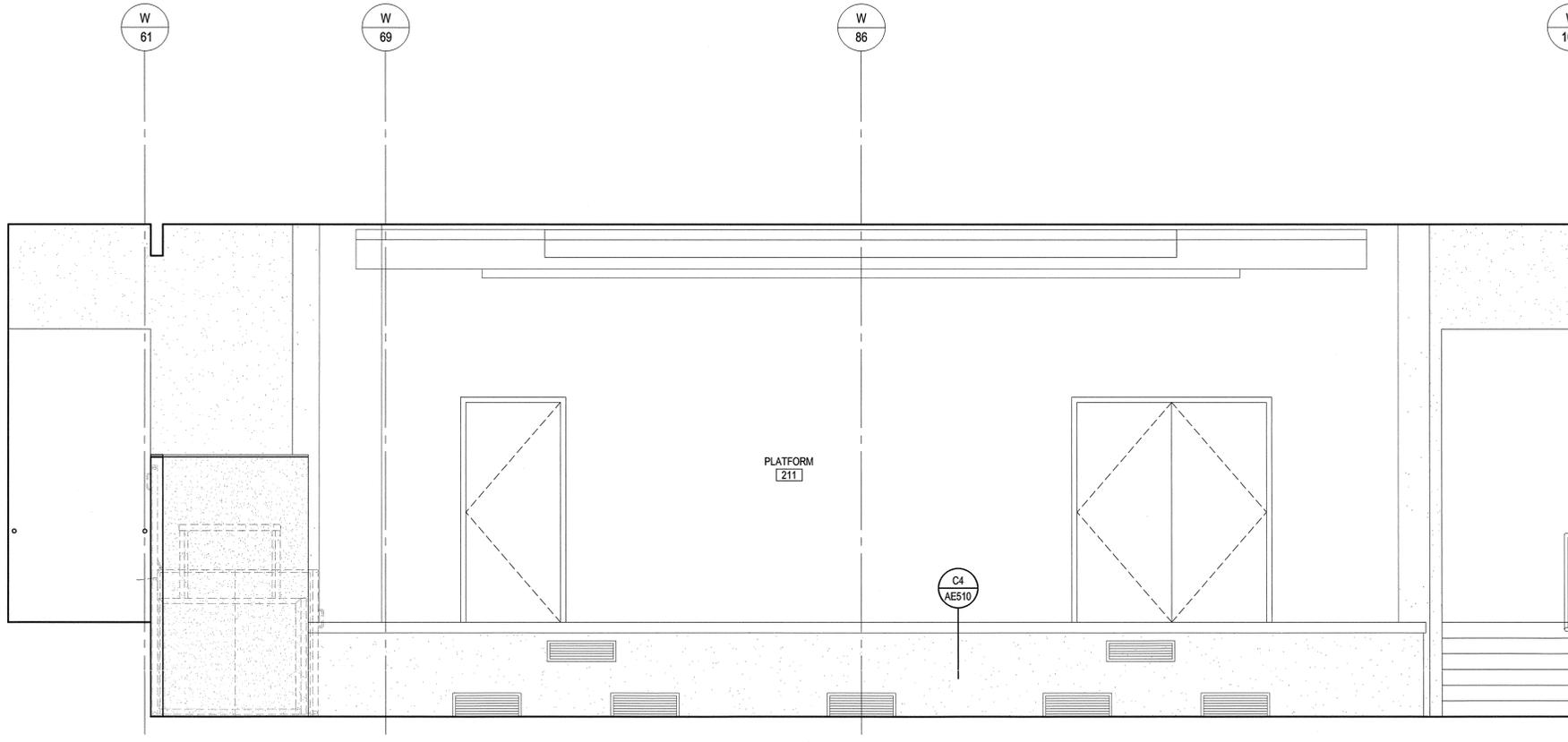
SHEET NAME
REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS
 JUNE 08, 2009

SHEET NUMBER
AC101



D1 NORTH INTERIOR ELEVATION
 SCALE: 1/2" = 1'-0"



A1 SOUTH INTERIOR ELEVATION
 SCALE: 1/2" = 1'-0"

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10. NEW ADA HEIGHT E.W.C. TO REPLACE EXISTING STANDARD HEIGHT E.W.C., MATCH EXISTING MANUFACTURER.

FINISH SCHEDULE

- F1: CARPET TILE - INTERFACE
 STYLE: 1465402500
 COLOR: 7800 "CRPSS SECTION"
 - F2: FIR FLOORING - PAINTED BLACK
 - F3: POLISHED SEALED CONCRETE
- P1: FIELD (TYP. U.N.O.)
 COLOR: MATCH EXISTING
 FINISH: MATCH EXISTING
 - P2: ACCENT PAINT
 COLOR: SHERWIN WILLIAMS 6241 "ALEUTIAN"
 FINISH: EGGSHELL
 - P3: CEILING PAINT
 COLOR: SHERWIN WILLIAMS 0023 "PEWTER TANKARD"
 FINISH: MATTE
 - WF1: MAHARAM
 PATTERN: REPLY 901880
 COLOR: 014 HENNA
 - WF2: MAHARAM
 PATTERN: REPLY 901880
 COLOR: 010 PEAT
 - WF3: MAHARAM
 PATTERN: REPLY 901880
 COLOR: 011 ADOBE
 - WF4: MAHARAM
 PATTERN: REPLY 901880
 COLOR: 007 MIST

NOTE: 1. ALL BASE TO BE CARPET BASE TO MATCH CARPET TILE.
 2. RUBBER STAIR ACCESSORIES TO BE ROPPE P193 BLACK BROWN.
 3. PROVIDE RUBBER REDUCER STRIPS WHERE CARPET ABUTS SEALED CONCRETE FLOORS.

MHTN ARCHITECTS
 MHTN Architects, Inc.
 420 East South Temple
 Suite 100
 Salt Lake City, Utah 84111
 TEL 801.595.6700
 FAX 801.595.6717
 www.mhtn.com

SUU SOUTHERN UTAH UNIVERSITY
 LEARNING LIVES FOREVER

UTAH STATE DIVISION OF FACILITIES CONSTRUCTION MANAGEMENT

SUU SHARWAN SMITH CENTER AUDITORIUM REMODEL
 STATE OF UTAH DIVISION OF FACILITIES CONSTRUCTION MANAGEMENT - DFCM PROJECT NO. 09013730

Stamp: Kyle S. [Signature]
 ARCHITECT

MHTN PROJECT NO. 2009515
 DFCM PROJECT NO. 09013730
 DRAWN BY: [Signature] CHECKED BY: [Signature]

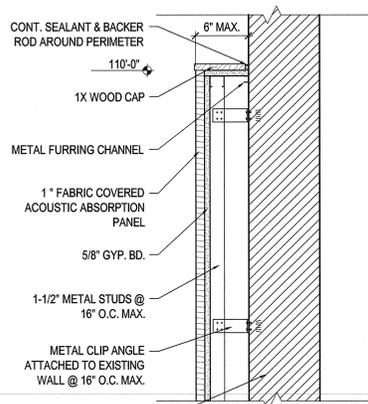
NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

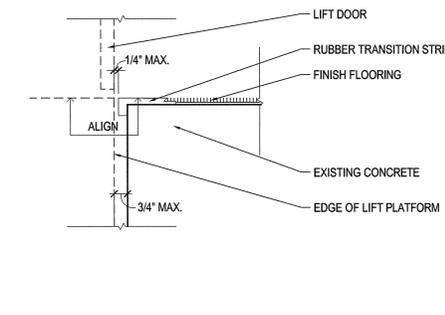
SHEET NAME: **INTERIOR ELEVATIONS**

CONSTRUCTION DOCUMENTS
 JUNE 08, 2009

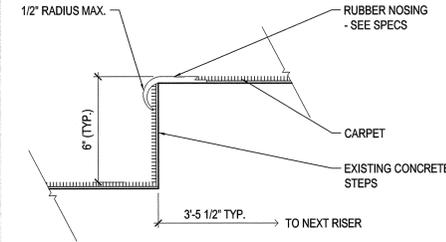
SHEET NUMBER: **AE431**



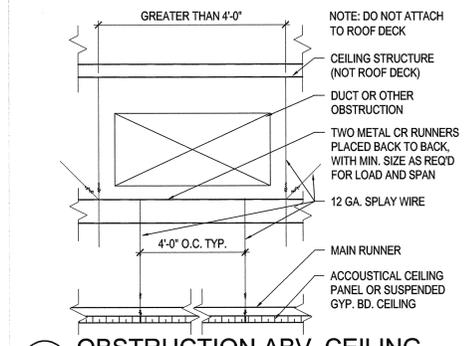
D1 ACOUSTIC PANEL DETAIL - SECTION
SCALE: 1-1/2" = 1'-0"



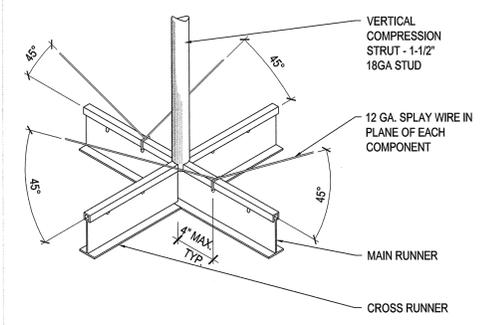
D2 LIFT TRANSITION DETAIL
SCALE: 1-1/2" = 1'-0"



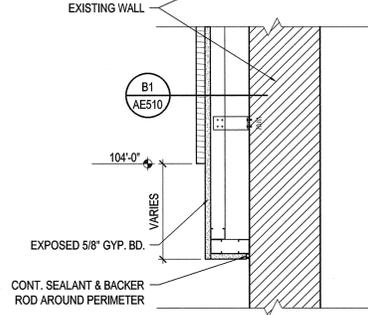
D3 DETAIL
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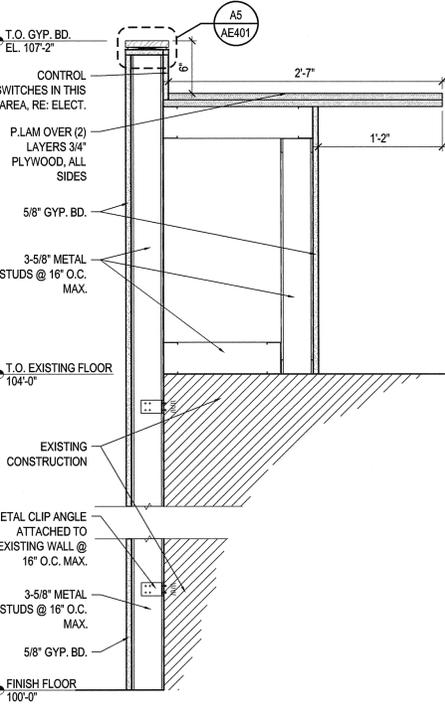
E4 OBSTRUCTION ABV. CEILING
SCALE: 3" = 1'-0"



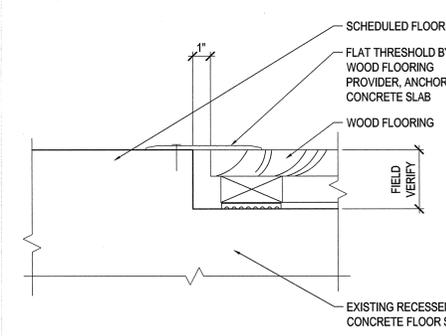
E5 TYP. CEILING BRACE DETAIL
SCALE: N.T.S.



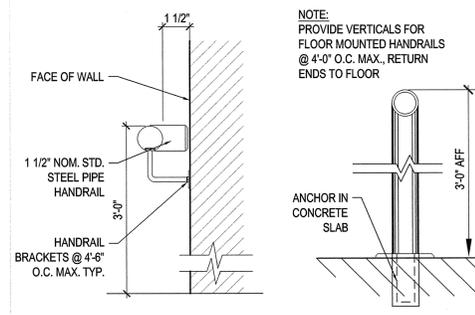
D1 ACOUSTIC PANEL DETAIL - SECTION
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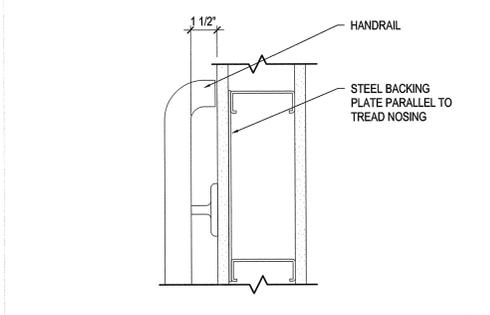
B2 CONTROL COUNTER DETAIL
SCALE: 1-1/2" = 1'-0"



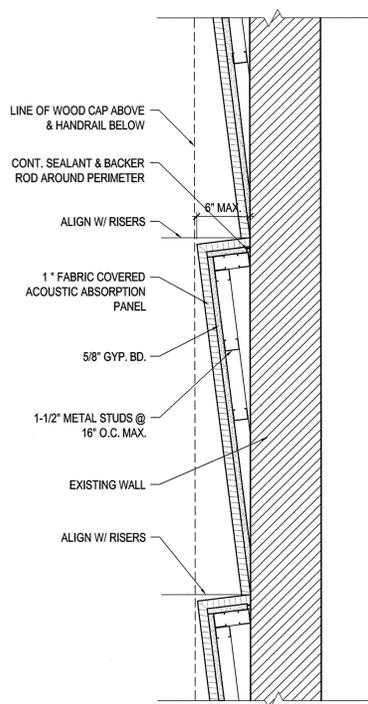
C3 DETAIL
SCALE: 1-1/2" = 1'-0"



D4 TYPICAL HANDRAIL DETAIL
SCALE: 3" = 1'-0"

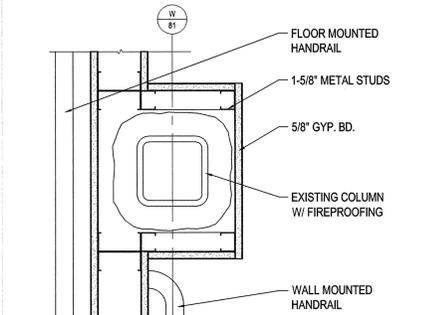


D5 HANDRAIL BLOCKING DETAIL
SCALE: 3" = 1'-0"

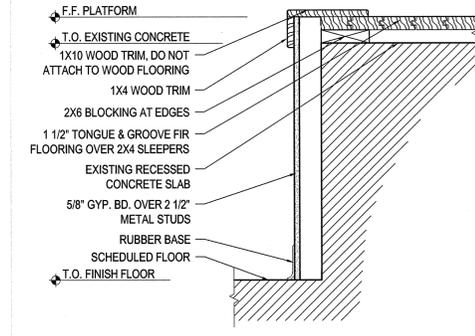


B1 ACOUSTIC PANEL DETAIL - PLAN
SCALE: 1-1/2" = 1'-0"

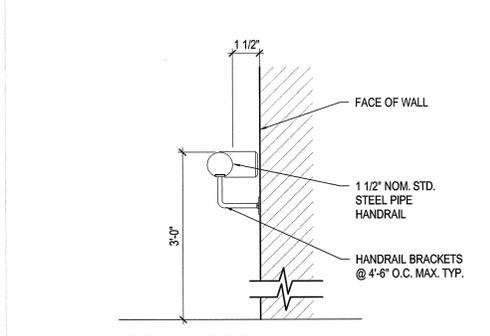
B2 CONTROL COUNTER DETAIL
SCALE: 1-1/2" = 1'-0"



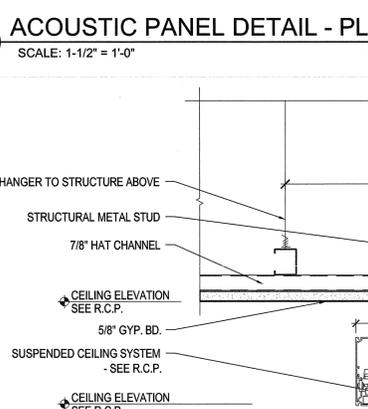
B3 DETAIL
SCALE: 2" = 1'-0"



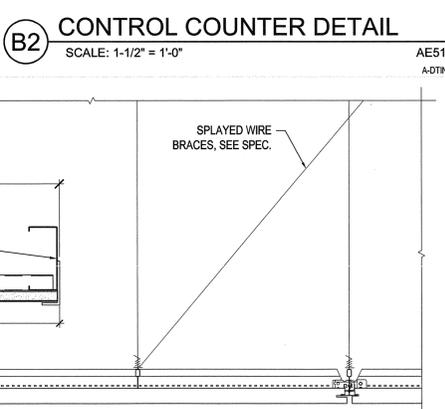
C4 DETAIL
SCALE: 1-1/2" = 1'-0"



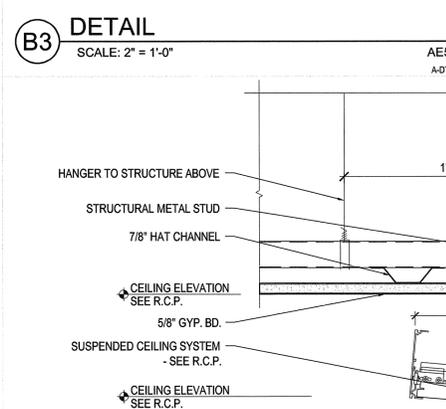
C5 HANDRAIL DETAIL
SCALE: 3" = 1'-0"



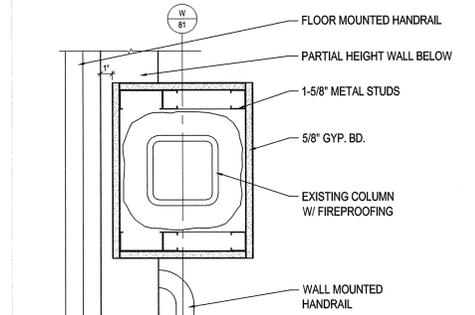
A1 CEILING PANEL DETAIL
SCALE: 3" = 1'-0"



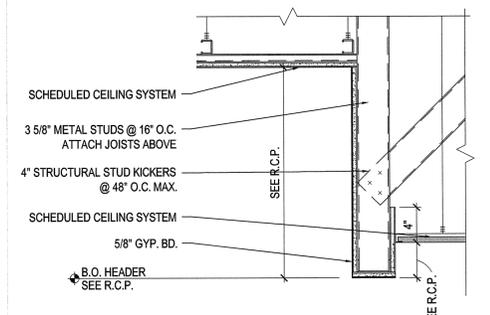
B2 CONTROL COUNTER DETAIL
SCALE: 1-1/2" = 1'-0"



A3 CEILING PANEL DETAIL
SCALE: 3" = 1'-0"



B4 DETAIL
SCALE: 2" = 1'-0"



B5 CEILING DETAIL
SCALE: 1-1/2" = 1'-0"



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DFCM PROJECT NO. 09013730
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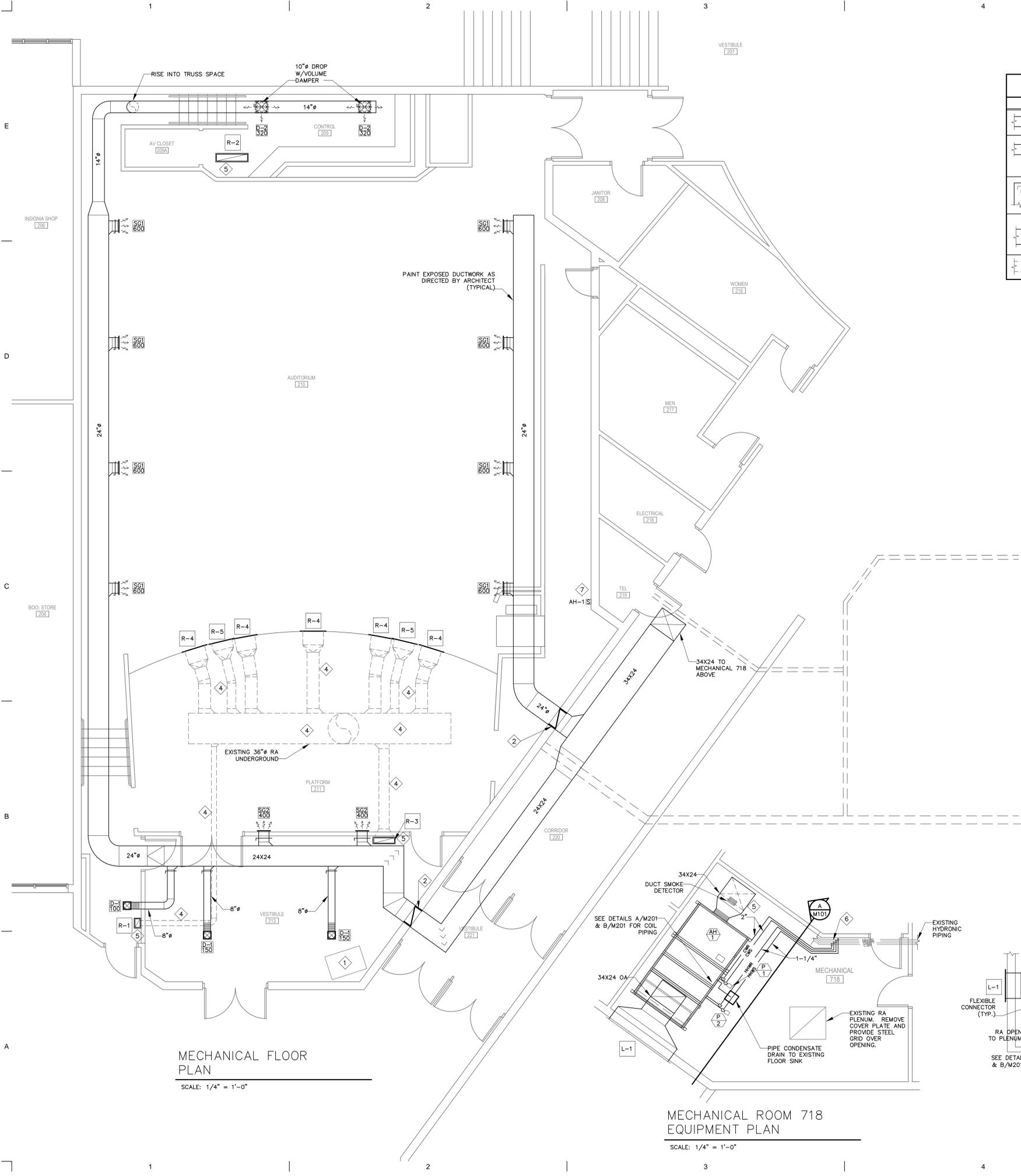
NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

SHEET NAME
DETAILS

CONSTRUCTION DOCUMENTS
JUNE 08, 2009

SHEET NUMBER
AE510



LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER		FIRE DAMPER
	BRANCH DUCT TAKE-OFF		TEMPERATURE SENSOR
	SINGLE THICKNESS TURNING VANES		THERMOSTAT
	DUCT TRANSITION	SA	SUPPLY AIR
	EXISTING DUCT	RA	RETURN AIR
		OA	OUTSIDE AIR
		CWS	CHILLED WATER SUPPLY
		CWR	CHILLED WATER RETURN
		HHWS	HEATING HOT WATER SUPPLY
		HHWR	HEATING HOT WATER RETURN

- ### KEYED NOTES
- EXISTING UNIT HEATER TO BE REMOVED. CAP GAS LINE AND REMOVE FLUE.
 - PROVIDE FIRE AND SMOKE DAMPER WITH ACCESS DOOR.
 - NOT USED.
 - EXISTING UNDERGROUND RA DUCTWORK.
 - VERIFY EXISTING LOCATION OF FLOOR PENETRATION.
 - FIELD VERIFY THE LOCATION OF EXISTING HYDRONIC PIPING FOR BRANCH PIPING CONNECTION. PROVIDE TWO PIECE BALL ISOLATION VALVE AT POINT OF CONNECTION.
 - PROVIDE REMOTE ROOM SENSOR. INTERFACE WITH OWNER'S EXISTING CONTROLS SYSTEM FOR PROPER OPERATION.
 - COORDINATE WALL PENETRATION TO AVOID EXISTING PIPING.
 - PROVIDE BASE RAIL ON BOTH SIDES OF UNIT TO COVER A MINIMUM OF THREE FLOOR JOISTS FOR STRUCTURAL SUPPORT. PROVIDE SPRING ISOLATORS BETWEEN UNIT AND BASE RAIL.

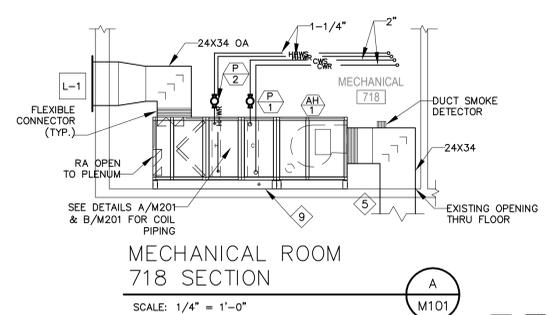
OUTSIDE AIR BALANCE SCHEDULE

MARK	BALANCE TO CFM
AH-1	1550

- ### GENERAL NOTES:
- DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DUCT LINER.
 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
 - REMOTE CEILING DAMPER REGULATORS ARE REQUIRED ON ALL BALANCE DAMPERS THAT ARE NOT LOCATED DIRECTLY ABOVE REMOVABLE CEILINGS.
 - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NO ALLOWANCES WILL BE MADE FOR FAILURE TO PROPERLY VERIFY AND MEASURE THE EXISTING CONDITIONS.
 - ALL EXISTING EQUIPMENT REMOVED REMAINS THE PROPERTY OF SOUTHERN UTAH UNIVERSITY.
 - PROVIDE FIRE DAMPERS WITH ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED STRUCTURES.
 - CONTRACTOR TO REPLENISH HEATING HOT WATER AND CHILLED WATER SYSTEM WITH SPECIFIED GLYCOL SOLUTION UPON COMPLETION OF HYDRONIC PIPING.
 - VERIFY ALL MOTOR SIZES BEFORE INSTALLATION.
 - ALL EQUIPMENT SHALL INTEGRATE FULLY WITH EXISTING AUTOMATED TEMPERATURE CONTROL SYSTEM. PROVIDE NECESSARY RELAYS, HARDWARE, OPERATORS, EQUIPMENT AND SOFTWARE TO PROPERLY CONTROL NEW EQUIPMENT.

DESIGN CONDITIONS

	OUTSIDE	INSIDE
WINTER	2°F	70°F
SUMMER	93°F db, 59°F wb	75°F db, 64°F wb



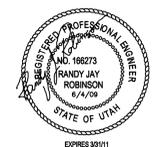
MHTN ARCHITECTS
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 CONSTRUCTION MANAGEMENT

SUU SHARWAN SMITH CENTER AUDITORIUM REMODEL

CEDAR CITY, UTAH



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REVISIONS

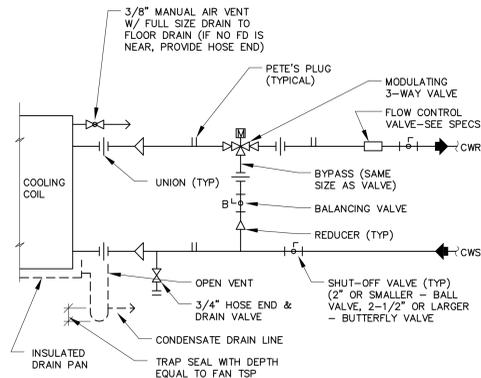
NO.	DATE	DESCRIPTION
1	6/4/09	D.F.C.M. REVIEW CORRECTIONS

SHEET NAME: **MECHANICAL FLOOR PLAN**

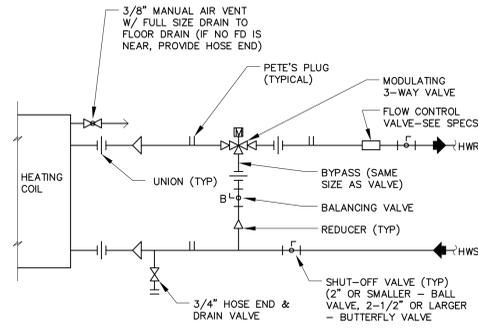
CONSTRUCTION DOCUMENTS

SHEET NUMBER: **M101**

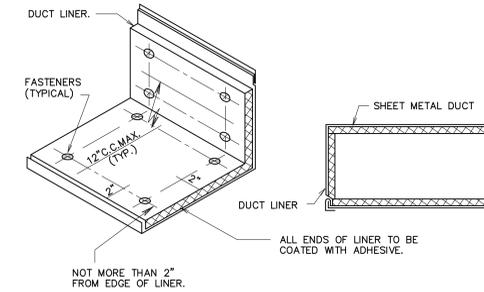
R J Robinson Engineering, P.C.
 Mechanical Consulting
 108 # 809020
 P.O. Box 5519, Glendale, AZ 85312-5519
 8500 N. 97th Ave., Glendale, AZ
 Utah Office: 1135 North Main, 8th Fl., Cedar City, UT, 84721 Phone: (435) 867-1102



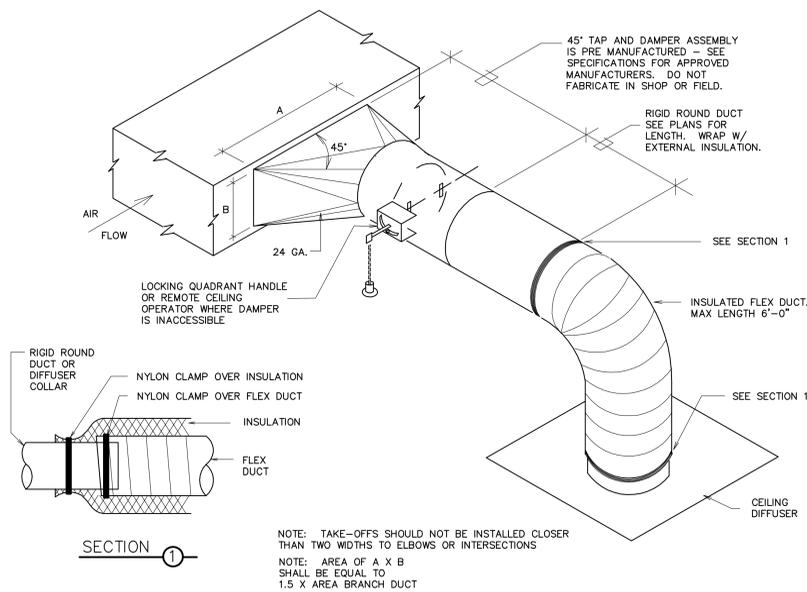
CHW COIL CONNECTION DETAIL (A)
SCALE: NONE (M201)



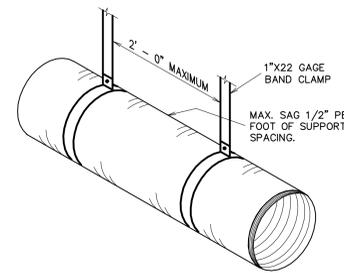
HW COIL CONNECTION DETAIL (B)
SCALE: NONE (M201)



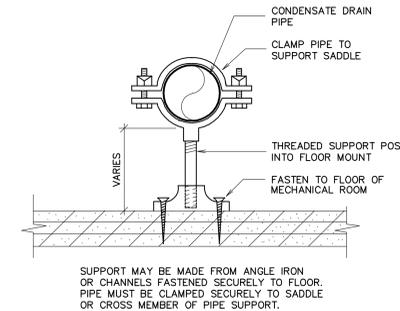
DUCT LINER DETAIL (C)
SCALE: NONE (M201)



SQUARE TO ROUND TAKE-OFF DETAIL (D)
SCALE: NONE (M201)

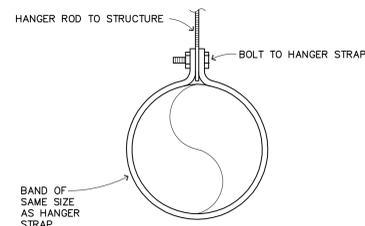


FLEXIBLE DUCT SUPPORT DETAIL (E)
SCALE: NONE (M201)

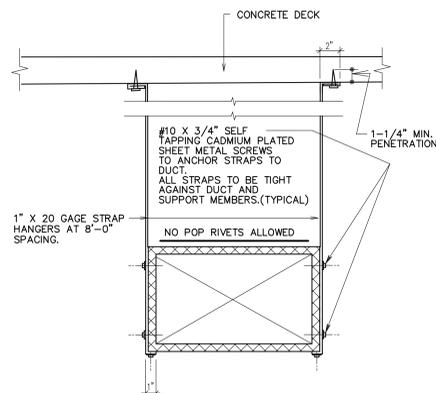


CONDENSATE DRAIN PIPE SUPPORT DETAIL (F)
SCALE: NONE (M201)

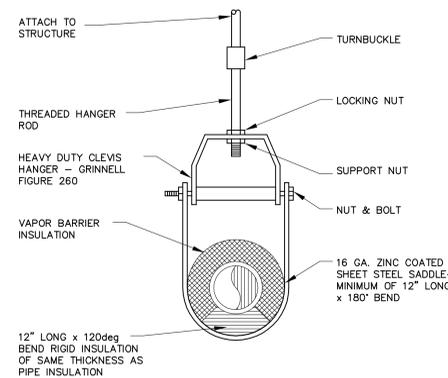
DUCT DIAMETER	HANGER SIZE - GALV. STEEL STRAP	SPACING
0 TO 18"	1" x 20 GA.	12'
19 TO 36"	1" x 18 GA.	12'



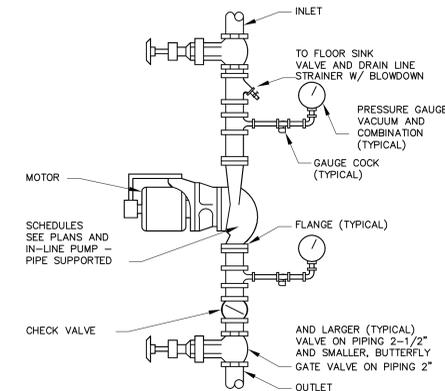
ROUND DUCT HANGER DETAIL (G)
SCALE: NONE (M201)



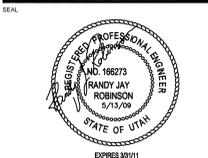
DUCT SUPPORT DETAIL (H)
SCALE: NONE (M201)



CLEVIS HANGER DETAIL - INSULATED PIPE (I)
SCALE: NONE (M201)



VERTICAL IN-LINE PUMP DETAIL (J)
SCALE: NONE (M201)



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SHEET NAME
MECHANICAL DETAILS

CONSTRUCTION DOCUMENTS

SHEET NUMBER

M201

AIR HANDLER SCHEDULE																																		
MARK	MANUFACTURER / MODEL NUMBER	FILTERS		COOLING COILS										HEATING COILS										AIR HANDLING UNITS				CAPACITY		REMARKS				
		NO.	SIZE (IN.)	AIR SIDE			WATER SIDE			TOTAL FACE AREA SQ. FT.	FACE VEL. (FPM)	ROWS DEEP (MIN)	AIR SIDE			WATER SIDE			TOTAL FACE AREA SQ. FT.	FACE VEL. (FPM)	ROWS DEEP	CFM	STATIC PRESS. (IN H2O)	FAN RPM	MOTOR HP	MAX OPER. WT. #	VOLTS/PHASE	HEATING MBH	COOLING MBH					
				ENT. TEMP. °F	LVG. TEMP. °F	MAX. ΔP (IN H2O)	MIN. GPM	ENT. TEMP. °F	LVG. TEMP. °F				MAX. ΔP (IN H2O)	MIN. GPM	ENT. TEMP. °F	LVG. TEMP. °F	MAX. ΔP (IN H2O)	MIN. GPM													ENT. TEMP. °F	LVG. TEMP. °F	MAX. ΔP (IN H2O)	MIN. GPM
				DB	WB	WB	DB	WB	WB				DB	WB	WB	DB	WB	WB													DB	WB	WB	DB
①	CARRIER 39MN14	6	20X20X2 (2) 20X24X2 (4)	80.0	60.4	59.4	53.5	0.60	24	45	55	5.0	14.34	445	6	58.8	73.6	0.20	12.5	160	130	2.0	14.34	548	1	6640	3.7	1241	7.5	2835	208/3	123	119	①

- ① PROVIDE WITH FILTER-MIXING BOX SECTION.
② PROVIDE MOTORIZED DAMPER ON OA OPENING AT MIXING BOX.

DIFFUSER SCHEDULE							
MARK	C.F.M. RANGE ①	DIFFUSER SIZE	NECK CONN.	BLOW	PATTERN	AIR DIST./SIDE	
						A (%)	B (%)
						② ③	
D-1	210-255	9X9	8"ø	4 WAY		25	25
D-2	320	12X12	10"ø	3 WAY		33	33

- ① MAXIMUM NC=25 ② MAXIMUM CFM NOTED.
② SHALL BE TITUS TDC TYPE 6 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
③ COLOR AS DIRECTED BY ARCHITECT.

PUMP SCHEDULE									
MARK	MANUFACTURER / MODEL NUMBER ①	TYPE	SERVICE	PUMP		MOTOR		REMARKS	
				FLOW GPM	HEAD FT H2O	RPM	VOLT/ø/HZ		HP
				①					
P-1	PL-30	INLINE CIRCULATOR	CHILLED WATER	24.0	6.0	2650	115/1/60	1/12	
P-2	PL-30	INLINE CIRCULATOR	HEATING HOT WATER	12.5	3.5	2650	115/1/60	1/12	

- ① MANUFACTURER FOR MODEL NUMBER LISTED IS BELL & GOSSETT, SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.

REGISTER, LOUVER & GRILLE SCHEDULE					
MARK	TYPE	SERVICE	CFM RANGE ①	NOMINAL SIZE	REMARKS ③
					② ④
SG1	HIGH SIDEWALL ④	SA	700	18X10	②
SG2	HIGH SIDEWALL ④	SA	400	12X8	②
R-1	FLOOR GRILLE ④	RA	100	12X6	⑤
R-2	FLOOR GRILLE ④	RA	640	36X6	⑤
R-3	FLOOR GRILLE ④	RA	300	24X6	⑤
R-4	LOW SIDEWALL ④	RA	1000	30X12	⑥
R-5	LOW SIDEWALL ④	RA	400	30X6	⑥
L-1	FRESH AIR LOUVER ④	OA	1550	85X31 ⑦	⑧ ⑨

- ① MAXIMUM NC=25 ② MAXIMUM CFM NOTED.
② SHALL BE TITUS 1700L OR EQUAL BY OTHER APPROVED MANUFACTURER.
③ SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
④ BAKED ENAMEL FINISH WITH COLOR AS DIRECTED BY ARCHITECT.
⑤ SHALL BE TITUS CT-580 OR EQUAL BY OTHER APPROVED MANUFACTURER.
⑥ SHALL BE TITUS 33RL OR EQUAL BY OTHER APPROVED MANUFACTURER.
⑦ FIELD VERIFY EXACT OPENING SIZE.
⑧ PROVIDE ALUMINUM BIRD SCREENS.
⑨ MAX. ACCEPTABLE FACE VELOCITY THROUGH NET FREE AREA: 400 FT/MIN.

CONTROL VALVE SCHEDULE					
MARK	SERVICE	CONTROL VALVE ①			
		FLOW (GPM)	ΔP (FT H2O)	C.V.	SIZE
		①			
CV-1	CHILLED WATER	24	1.0	46.8	2"
CV-2	HEATING HOT WATER	12.5	1.0	18.7	1-1/4"

- ① PROVIDE MOTORIZED VALVE ACTUATOR.
② HONEYWELL V5013N OR APPROVED EQUAL.

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AUDITORIUM REMODEL
CEDAR CITY, UTAH



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MECHANICAL FLOOR
MECHANICAL
SCHEDULES

CONSTRUCTION DOCUMENTS

SHEET NUMBER

M301

