

# COLLEGE OF EASTERN UTAH BUNNEL-DMITRICH ATHLETIC CENTER HVAC UPGRADE

451 EAST 400 NORTH  
PRICE, UTAH 84501

MAY 21, 2007  
CONSTRUCTION DOCUMENTS



STATE OF UTAH  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT  
4110 STATE OFFICE BUILDING / SALT LAKE CITY, UTAH 84114 /  
801.538.3018 / [www.dfc.state.ut.us](http://www.dfc.state.ut.us)  
DFCM PROJECT NO. 06162610

COLLEGE OF  
Eastern Utah

ARCHITECT:



**SCOTT P. EVANS - ARCHITECT  
& ASSOCIATES P.C.**

108 WEST CENTER STREET / BOUNTIFUL, UTAH 84010 /  
801.298.1368 / [www.spe-architect.com](http://www.spe-architect.com)

STRUCTURAL ENGINEER:



**BHB CONSULTING ENGINEERS**

244 WEST 300 NORTH / SALT LAKE CITY, UTAH 84103  
801.355.5656 / [www.bhbengineers.com](http://www.bhbengineers.com)

MECHANICAL ENGINEER:



**VAN BOERUM & FRANK  
ASSOCIATES**

330 SOUTH 300 EAST / SALT LAKE CITY, UTAH 84111  
801.530.3148 / [www.vbfa.com](http://www.vbfa.com)

ELECTRICAL ENGINEER:



**SPECTRUM ENGINEERS**

WALKER BANK BUILDING 175 SOUTH MAIN STREET  
# 300 SALT LAKE CITY, UTAH 84111 /  
801.355.5151 / [www.spectrum-engineers.com](http://www.spectrum-engineers.com)

# CODE ANALYSIS

APPLICABLE CODES			
Year		Year	
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2008	Building Conservation	
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code		Guidelines	2006

A. Occupancy and Group: A 2.1 ORIGINAL

Change in Use: Yes No X Mixed Occupancy: Yes X No  
Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category: \_\_\_\_\_ Design Wind Speed: \_\_\_\_\_ mph

C. Type of Construction (circle one):  
 I A I B I C I D I E I F I G I H I I  
 II A II B II C II D II E II F II G II H II I  
 III A III B III C III D III E III F III G III H III I  
 IV HT V A V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
 North: 1 South: 1 East: 1 West: 1

E. Mixed Occupancies: X Nonseparated Uses: \_\_\_\_\_

F. Sprinklers:  
 Required: YES Provided: YES Type of Sprinkler System: WET  
**IN LIEU OF 1-HR GYM HAS CEILING OPEN TO STRUCTURE**

# ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
AL.	ALUMINUM
ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
AWIS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT
&	AND
L	ANGLE
APPD.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT OR ARCHITECTURAL
AC	ARCHITECTURAL CONCRETE
AVG.	AVERAGE
@	AT
BM	BEAM
BLKG.	BLOCKING
BOT.	BOTTOM
BRKT.	BRACKET
BLDG.	BUILDING
CSMU	CALCIUM SILICATE MASONRY UNIT
C.B.	CATCH BASIN
CTR.	CENTER
CL	CENTERLINE
C TO C	CENTER TO CENTER
	CHANNEL
C.O.	CLEANOUT
COL	COLUMN
COMP.	COMPOSITION
C.M.U.	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CSK.	COUNTERSINK
C.J.	CONTROL JOINT
CU.	CUBIC
CU. FT.	CUBIC FOOT
CFM	CUBIC FEET PER MINUTE
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DEPT.	DEPARTMENT
DIAG.	DIAGONAL
Ø	DIAMETER
DIM.	DIMENSION
DR	DOOR
DBL.	DOUBLE
DWG.	DRAWING
ELEC.	ELECTRICAL
EWC	ELECTRIC WATER COOLER
EL.	ELEVATION
EQUIP.	EQUIPMENT
EJ/EXP. JT.	EXPANSION JOINT
EIFS	EXTERIOR INSULATION FINISH SYSTEM
F.S.	FAR SIDE
FT. or'	FEET OR FOOT
F.V.	FIELD VERIFY
F.F.	FINISH FLOOR
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
FRT	FIRE RETARDANT TREATED
FD	FLOOR DRAIN
FLUOR.	FLUORESCENT
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
GA.	GAGE OR GAUGE
GSU	GLAZED STRUCTURAL UNIT
GYP. BD.	GYP. BOARD
HDW.	HARDWARE
HGT.	HEIGHT
HSB	HIGH STRENGTH BOLT
HORIZ.	HORIZONTAL
"	INCH
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INTER.	INTERMEDIATE
K	KIP (1,000 LB.)
LAB.	LABORATORY
MFG.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NBFU	NATIONAL BOARD OF FIRE UNDERWRITERS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. or #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
d	PENNY
/	PER
PERP.	PERPENDICULAR
Ø	PHASE
LB. or #	POUND
PREFAB.	PREFABRICATED
P.L.	PROPERTY LINE
R	RADIUS
REINF.	REINFORCING
REQ'D.	REQUIRED
REV.	REVISION
R&S	ROD & SHELF
RD	ROOF DRAIN
RM	ROOM
RD. or Ø	ROUND
SHT.	SHEET
SIM.	SIMILAR
SAB	SOUND ATTENUATION BLANKET
SPEC.	SPECIFICATION
SQ. or	SQUARE
SYM.	SYMMETRICAL
SSEIS	SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM
T.O.M.	TOP OF MASONRY
T.B.C.	TOP BACK OF CURB
T.L.	TOP OF LANDSCAPING
T.W.	TOP OF WALK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL
UN.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VWC.	VINYL WALL COVERING
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

# MATERIAL DESIGNATIONS

	EARTH
	POROUS FILL
	ASPHALT
	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK
	CAST STONE
	CERAMIC TILE
	WOOD (FINISH)
	WOOD (STUDS, NAILERS)
	WOOD (BLOCKING)
	PLYWOOD
	BATT INSULATION
	RIGID INSULATION
	PLASTER
	ACOUSTIC TILE
	GYP. BOARD
	GLASS
	STEEL
	PARTICLE BOARD
	RIGID INSULATION

# GRAPHIC SYMBOLS

	DETAIL/WALL or SECTION NUMBER
	SHEET NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	ROOM NAME
	ROOM NUMBER
	REVISION NUMBER
	DETAIL, WALL or SECTION NUMBER
	SHEET NUMBER
	GRID REFERENCE
	REFERENCE NORTH (PLANS)
	ELEVATION REFERENCE
	KEYED NOTE NUMBER
	INTERIOR ELEVATION MARKER
	WALL TYPES
	DRAWINGS REVISION
	REVISION NUMBER

# DRAWING INDEX

SHT. #	DRAWING TITLE
	<b>GENERAL:</b>
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
	<b>STRUCTURAL:</b>
SJ001	GENERAL STRUCTURAL NOTES
SB101	FOOTING / ROOF PLAN
SB201	WALL ELEVATION
SB501	DETAILS AND SCHEDULES
SB502	DETAILS AND SCHEDULES
	<b>ARCHITECTURAL:</b>
AS-101	SITE PLAN
AS-102	ENLARGED SITE PLAN
AS-103	DIMENSION & JOINT PLAN
AE-201	ELEVATION
AE-301	WALL SECTION
AE-302	WALL SECTION
AE-303	WALL SECTION
AE-304	WALL SECTION
AE-501	DETAILS
AE-502	DETAILS
AE-503	DETAILS
AE-504	DETAILS
AE-505	DETAILS
	<b>MECHANICAL:</b>
M-001	LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS
MS-1	MECHANICAL SITE PLAN
MP-1.1	LEVEL #1 AREA #1 MECHANICAL DEMOLITION PLAN
MP-1.2	LEVEL #1 AREA #2 MECHANICAL DEMOLITION PLAN
MP-2.1	LEVEL #2 AREA #1 MECHANICAL DEMOLITION PLAN
MP-2.2	LEVEL #2 AREA #2 MECHANICAL DEMOLITION PLAN
MP-3.1	LEVEL #1 AREA #3 MECHANICAL PLAN
MP-4.1	LARGE SCALE MECHANICAL RM. DEMONSTRATION PLAN
MP-5.1	MECHANICAL BUILDING SECTIONS
MP-5.2	MECHANICAL BUILDING SECTIONS
MP-6.1	MECHANICAL DETAILS
MP-6.2	MECHANICAL DETAILS
MP-7.1	SCHEDULES
	<b>ELECTRICAL:</b>
EE-001	SYMBOL LEGEND SHEET INDEX & SCHEDULES
EE-002	ONE-LINE DIAGRAMS
ED-101	LEVEL #1 AREA #1 DEMOLITION PLAN
EP-101	LEVEL #1 AREA #1 POWER PLAN
EP-102	LEVEL #1 AREA #2 POWER PLAN
EP-103	LEVEL #1 AREA #3 POWER PLAN



**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
 108 West Center Street  
 Bountiful, Utah 84010  
 Telephone - 801.298.1368  
 Telefax - 801.298.2192  
 info@spe-architect.com  
 www.spe-architect.com

PROFESSIONAL STAMP:



CONSULTANTS:



PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
 BUNNEL-DMITRICH  
 ATHLETIC CENTER  
 HVAC UPGRADE**  
 451 EAST 400 NORTH  
 PRICE, UTAH 84601

REVISIONS:

NO.	DATE	DESCRIPTION
01	5/21/07	CONSTRUCTION DOCUMENTS

ISSUED:

NO.	DATE	DESCRIPTION
01	5/21/07	CONSTRUCTION DOCUMENTS

OWNER PROJECT #: 06162610  
 SPE PROJECT #: 06-35  
 DRAWN BY: JBE  
 CHECKED BY: RPL  
 DESIGNED BY: RPL

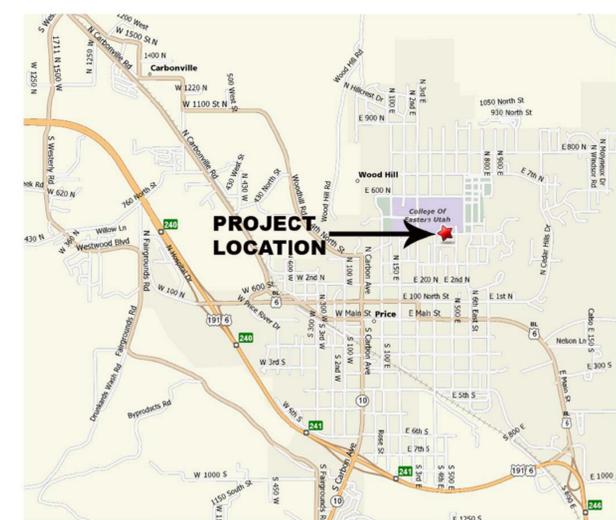
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SHEET TITLE:  
**GENERAL INFORMATION**

SHEET NUMBER:  
**GI-002**



**A3 VICINITY MAP**  
 SCALE: NONE



**A4 LOCATION MAP**  
 1 1/2" = 1'-0"

# GENERAL STRUCTURAL NOTES

## GENERAL

- The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown.
- The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.
- Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting.
- Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
- Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultants' drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
- Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
- Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
- Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

## BASIS OF DESIGN

- Governing Building Code: International Building Code 2003
- Roof Snow Load:
  - a. Ground Snow Load  $P_g = 43$  psf
  - b. Snow Importance Factor  $I_s = 1.1$
  - c. Snow Exposure Coefficient  $C_e = 1.0$
  - d. Thermal Exposure Coefficient  $C_t = 1.0$
  - e. Roof Snow Load  $P_f = 0.7 C_e C_g C_t I_s P_g = 33$  psf plus Snow Drift
- Seismic Loads:
  - a. Short Period Mapped Spectral Acceleration  $S_B = 0.467$
  - b. Soil Site Class  $D$
  - c. Short Period Site Coefficient  $F_a = 1.0$
  - d. 5% Damped Design Spectral Response Acceleration  $S_{DS} = 2/3 * F_a * S_B$
  - e. Seismic Importance Factor  $I_p = 1.25$
  - f. Seismic Response Coefficient  $C_D = S_{DS} * I_p / R$
  - g. W Dead Loads of Structure  $D$
  - h. Building Seismic Design Category  $D$
  - i. System Overstrength Factor  $2.5$
  - j. Deflection Amplification Factor  $3.5$
  - k. Out of Plane Shear  $V = 0.22 W$  (Strength Design)
- Wind Loads:
  - a. Wind Velocity (3 Second Gust) 90 mph
  - b. Exposure Type C
  - c. Wind Importance Factor 1.15

## FOUNDATION

- Soils Report by Rollins, Brown And Gunnell, INC., Dated June 1983. See Memo dated April 12, 2007
- Soil Bearing Pressure: 1500 psf, on Compacted Fill
- Frost Protection: 30 inches minimum
- Lateral Soil Pressure Fluid Equivalent Density:
  - a. Active ..... 35 pcf (retaining walls)
  - b. At Rest ..... 55 pcf (rigid foundation walls)
  - c. Passive ..... 300 pcf
- Coefficient of Friction ..... 0.4

## EARTHWORK

- Memo by RB&G dated April 12, 2007 states northeasterly part of the building can have footings placed on native soil if non-frost susceptible material be located within the upper 70% of the frost depth or 21 inches.
- It is recommended that 15 inches of non-frost susceptible material be located beneath slabs and mechanical pads.
- Consult the project specifications and soils report and memo from RB&G for earthwork requirements.

## CONCRETE

- Materials, unless noted otherwise:
  - a. Normal weight aggregates ASTM C 33
  - b. Reinforcing Steel Use Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3. ASTM A498
  - c. Deformed Bar Anchors (DBA) ASTM A108
  - d. Headed Stud Anchors (HSA)
  - e. Anchor Rods Typical, uno ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
- Admixtures:
  - i. Air-entraining admixtures comply with ASTM C 260 (when used).
  - ii. Calcium chloride shall not be added to the concrete mix.
- Type III cement complying with ASTM C-150 shall be used for all concrete.
- The water/cement ratios shall meet the requirements of ACI 318
- Provide air entraining as recommended by ACI 318
- No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
- Compressive strengths of concrete at 28 days shall be as follows:
  - a. Footings ..... 3,000 psi
  - b. Walls ..... 3,000 psi
  - c. All Site Concrete ..... 4,000 psi
- Only one grade or type of concrete shall be poured on the site at any given time.
- The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
  - a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- Reinforcement shall have the following concrete cover:
  - a. Cast-in-place Concrete ..... Clear Cover
  - b. Cast against and permanently exposed to earth ..... 3"
  - c. Formed concrete exposed to earth or weather:
    - #6 thru #18 bars ..... 2"
    - #5 and smaller bars ..... 1-1/2"
  - d. Concrete not exposed to weather or in contact with ground:
    - Slabs, Walls, Joists: #11 bars and smaller ..... 3/4"
    - Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals ..... 1-1/2"
- Construction:
  - a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
  - b. Concrete to be mechanically consolidated during placement per ACI standards.
  - c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
  - d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
  - e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
  - f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
- Detailing:
  - a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule on sheet 6/SB501". Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
  - b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
  - c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
  - d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
  - e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
  - f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.

## EPOXY

- Epoxy shall be "HIT HY 150 MAX or HIT RE 500 by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epocon Injection System" by RammedRedhead, "Power-Fast" by Rawl or approved equal.
- All drilled holes for bars or anchors rods 1" diameter and smaller shall be 1/8 inch larger than the bar of anchor rod being installed. For bars or anchor rods greater than 1" diameter shall be smaller 1/4 inch larger than the bar or anchor rod being installed.
- After drilling the proper size hole, clean the walls and bottom of the drilled hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
- Follow all manufacturer's recommendations for epoxy installation.

## STRUCTURAL STEEL

- Material:
  - a. Other shapes & Plates ASTM A36
  - b. Steel Tubes ASTM A500 Grade B (46KSI)
  - c. Gravity Columns ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
- Bolted Connections: ASTM A325
- Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
  - a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
  - b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1.
  - c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
  - d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
  - e. AISC "Seismic Provision for Structural Steel Buildings"
- Welding:
  - a. All welding and cutting shall be performed by AWS certified welders.
  - b. Use E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.
  - c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
  - d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
  - e. Do not weld anchor bolts, including "tack" welds.
  - f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.

## SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 thru 1709 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with out special inspection. Items requiring special inspection and quality assurance are:

- Concrete reinforcing steel placement (IBC Section 1704.4)
  - a. All Reinforcing shall be inspected prior to concrete placement.
- Structural welding:
  - a. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
  - b. Continuous special inspection of complete and partial penetration welds.
- Epoxy Anchors (IBC Section 1704.13)
  - a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

## LEGEND OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT (S)	JST	JOIST
ABV	ABOVE	k	KIP(S) = 1000 POUNDS
ALT	ALTERNATE	KLF	KIPS PER LINEAL FOOT
APPROX	APPROXIMATE	KSF	KIPS PER SQUARE FOOT
ARCH	ARCHITECT (URAL)		
BLDG	BUILDING	LES	POUNDS
BLW	BELOW	LF	LINEAL FOOT
BM	BEAM	LLH	LONG LEG HORIZONTAL
BTM	BOTTOM	LLV	LONG LEG VERTICAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN		
C.C.	CENTER-TO-CENTER	MAS	MASONRY
C.J.	CONTROL JOINT	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MCJ	MASONRY CONTROL JOINT
C.O.L.	COLUMN	MC-x	MASONRY COLUMN MARK
CONC	CONCRETE	MECH	MECHANICAL
CONST	CONSTRUCTION	MFR	MANUFACTURER
CP-x	CONCRETE PIER	MIN	MINIMUM
CRW-x	CONCRETE RETAINING WALL	MISC	MISCELLANEOUS
CTR	CENTER	MW-x	MASONRY WALL
CW-x	CONCRETE WALL	NIC	NOT IN CONTRACT
		NITS	NOT TO SCALE
DB	DECK BEARING	O.C.	ON CENTER
DBA	DEFORMED BAR ANCHOR	O.F.	OUTSIDE FACE
DBE	DECK BEARING ELEVATION	OPNG	OPENING
DEL	DOUBLE	OPP	OPPOSITE
DET	DETAIL		
DIA	DIAMETER	PCF	POUNDS PER CUBIC FOOT
DIM	DIMENSION	PL	PLATE
DN	DOWN	PLF	POUNDS PER LINEAL FOOT
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
DWL	DOWEL	PSI	POUNDS PER SQUARE INCH
		PT	POINT
EA	EACH	REINF	REINFORCING
EF	EACH FACE	REQD	REQUIRED
EJ.	EXPANSION JOINT	R.D.	ROOF DRAIN
ELEC	ELECTRICAL	RTU	ROOF TOP UNITS
ELEV	ELEVATION		
EQUIP	EQUIPMENT	SEP-x	STEEL BASE PLATE MARK
EQ	EQUAL	SC-x	STEEL COLUMN MARK
E.W.	EACH WAY	SCF-x	STEEL CAP PLATE MARK
EXST	EXISTING	SHT	SHEET
EXP	EXPANSION	SI	SPECIAL INSPECTION
EXT	EXTERIOR	SIM	SIMILAR
		SMU	SUSPENDED MECHANICAL UNITS
FC-x	CONTINUOUS FOOTING MARK	SO	SLAB-ON-GRADE
F.D.	FLOOR DRAIN	STAG	STAGGERED
FDN	FOUNDATION	STD	STANDARD
F.F.	FINISHED FLOOR	STL	STEEL
FR-x	RECTANGULAR FOOTING MARK	STR	STRUCTURAL
FS-x	SQUARE FOOTING MARK	STS	SELF TAPPING SCREWS
FTG	FOOTING		
FTS-x	THICKEN SLAB MARK	T&B	TOP AND BOTTOM
		TEMP	TEMPERATURE
GA	GAUGE	THDS	THREADS
GALV	GALVANIZED	T.O.	TOP OF
GSN	GENERAL STRUCTURAL NOTES	TOC	TOP OF CONCRETE
		TOD	TOP OF DECK
HB	HORIZONTAL BRIDGING	TOP	TOP OF FOOTING
HORIZ	HORIZONTAL	TOS	TOP OF STEEL
HSA	HEADED STUD ANCHOR	TOW	TOP OF WALL
HT	HEIGHT	TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	VERT	VERTICAL
IBC	INTERNATIONAL BUILDING CODE		
IF	INSIDE FACE	W	WITH
IN	INCH	WWF	WELDED WIRE FABRIC
INT	INTERIOR	WWM	WELDED WIRE MESH
JT	JOINT		



SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1988  
Telefax - 801.298.2182  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL SEAL:



CONSULTANTS:



PROJECT NAME:

COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE  
461 EAST 400 NORTH  
PRICE, UTAH 84501

REVISION:



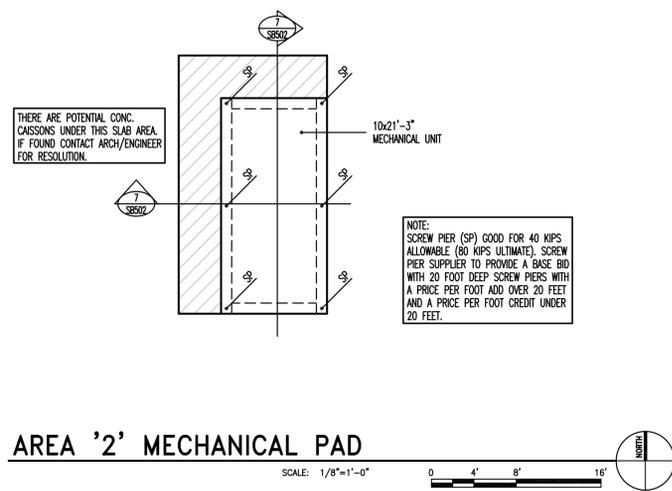
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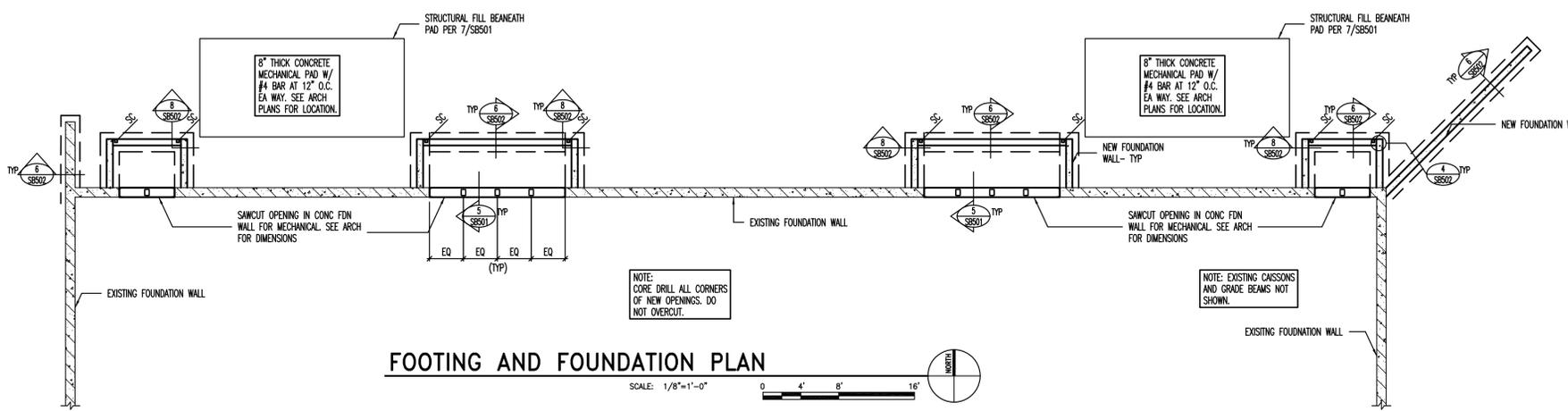
GENERAL  
STRUCTURAL NOTES

SHEET NUMBER:

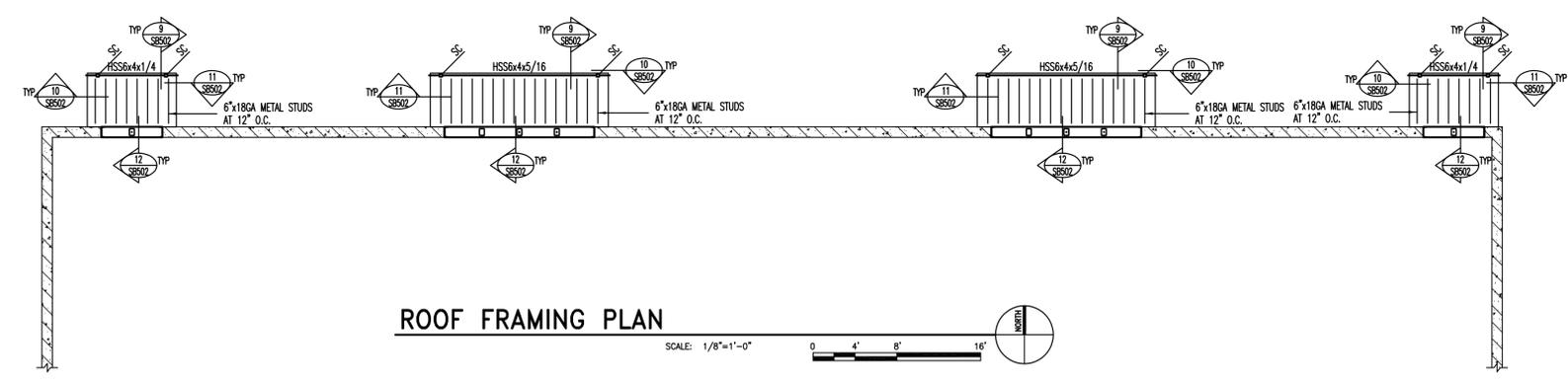
SJ001



**AREA '2' MECHANICAL PAD**  
SCALE: 1/8"=1'-0"



**FOOTING AND FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"



**ROOF FRAMING PLAN**  
SCALE: 1/8"=1'-0"

MARKS AND SYMBOLS LEGEND

	SECTION MARK SHEET NUMBER
SC	INDICATES STEEL COLUMN. SEE DETAILS 8,10/SBS02.
SP	INDICATES SCREW PIER.

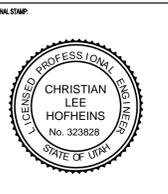
- FOOTING AND FOUNDATION PLAN NOTES**
- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
  - SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
  - SEE DETAILS 1/SBS02 AND 2/SBS02 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
  - SEE DETAIL 5/SBS02 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
  - SEE DETAIL 3/SBS02 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
  - SEE DETAIL 4/SBS01 FOR REQUIRED FILL BENEATH FOOTINGS AND MECHANICAL PADS.

- ROOF FRAMING PLAN NOTES**
- VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
  - SEE DETAIL 4/SBS01 FOR EPOXY DOWEL EMBED SCHEDULE.

**BHB Consulting Engineers**  
A Professional Corporation  
244 West 300 North  
Suite 202  
Salt Lake City, Utah 84113  
Phone: 801.355.5656  
Fax: 801.355.5990  
Email: bhb@bhbenr.com



**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1398  
Telefax - 801.298.2182  
info@spe-architect.com  
www.spe-architect.com



COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH ATHLETIC CENTER  
HVAC UPGRADE  
451 EAST 400 NORTH  
PRICE, UTAH 84501

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WALL ELEVATION  
SHEET NUMBER: **SB101**





**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1388  
Telefax - 801.298.2182  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:



CONSULTANTS:



PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84501

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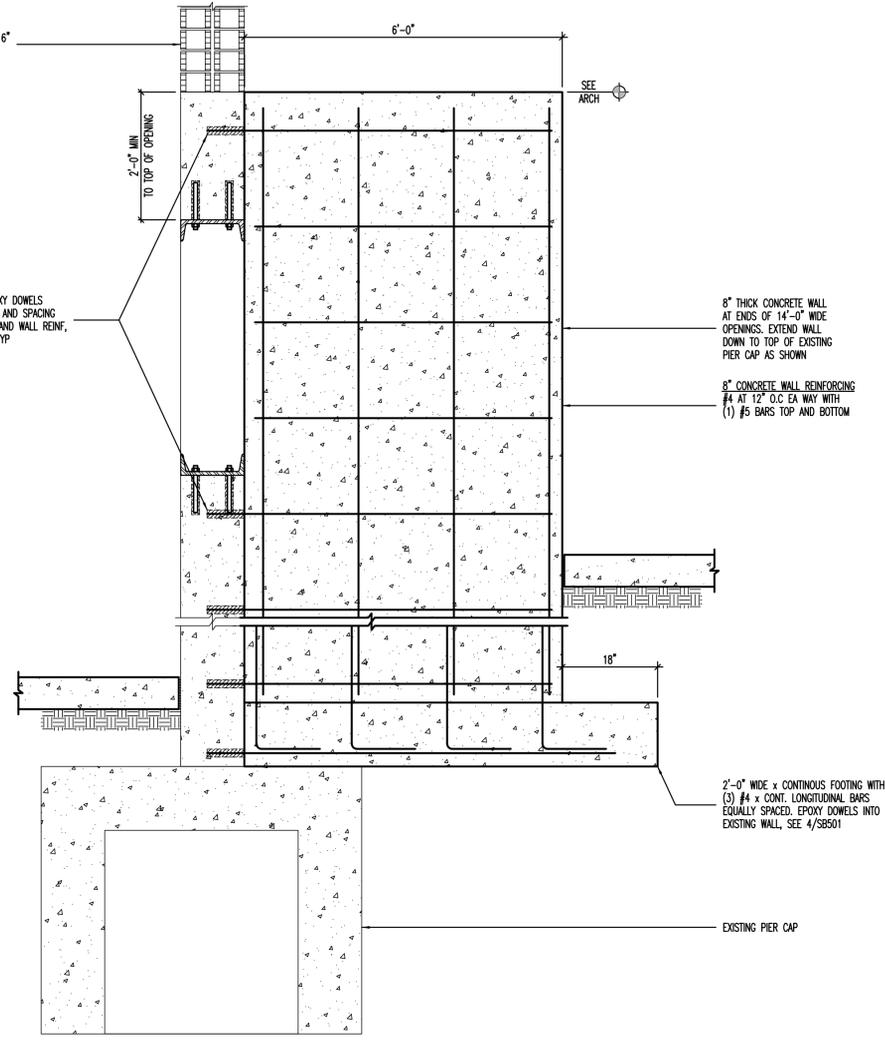
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SHEET TITLE:

DETAILS AND SCHEDULES

SHEET NUMBER:

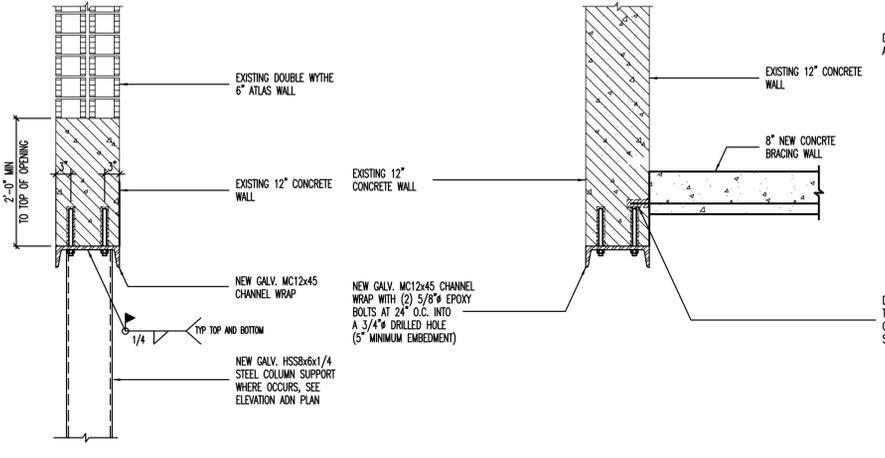
SB501



**5 BRACING WALL DETAIL** NO SCALE

DATE: 06/16/07

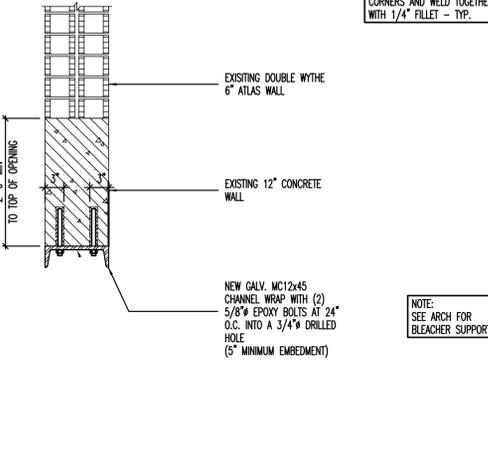
NO. 1018\_0001



**3 CHANNEL WRAP DETAIL AT LATERAL SUPPORT** NO SCALE

DATE: 06/16/07

NO. 1018\_0001



**1 CHANNEL WRAP DETAIL** NO SCALE

DATE: 06/16/07

NO. 1018\_0001



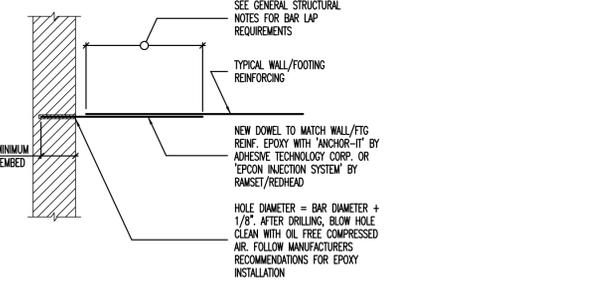
**2 CHANNEL WRAP AT COLUMN SUPPORT** NO SCALE

DATE: 06/16/07

NO. 1018\_0001

**EPOXY DOWEL EMBED SCHEDULE**

DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	5"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



**4 EPOXY DOWEL EMBED SCHEDULE** NO SCALE

DATE: 06/16/07

NO. 1018\_0001

**CONCRETE REINFORCING BAR LAP SPlice SCHEDULE**

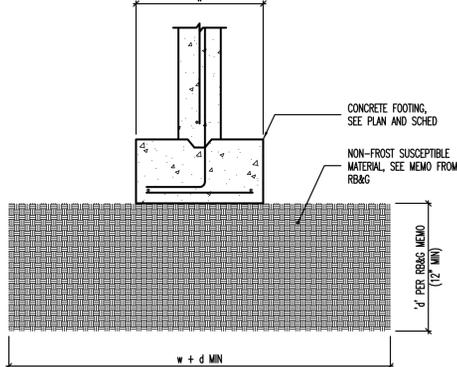
BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

- CONCRETE REINFORCING BAR LAP SPlice NOTES:**
- THIS SCHEDULE SHALL BE USED FOR ALL BAR SPICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
  - CLASS 'A' SPICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPICED WITHIN THE LAP SPICE LENGTH.
  - CLASS 'B' SPICES SHALL BE USED FOR ALL SPICES UNLESS THE REQUIREMENTS OF NOTE NO. 2 ABOVE ARE MET.
  - TIES AND STIRRUPS SHALL NOT BE SPICED.
  - SPICES FOR BUNDLED BARS:
    - FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    - FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    - INDIVIDUAL BAR SPICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    - ENTIRE BUNDLES SHALL NOT BE LAP SPICED.
  - FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
  - FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
  - TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

**6 CONCRETE REINFORCING BAR LAP SPlice SCHEDULE** NO SCALE

DATE: 06/16/07

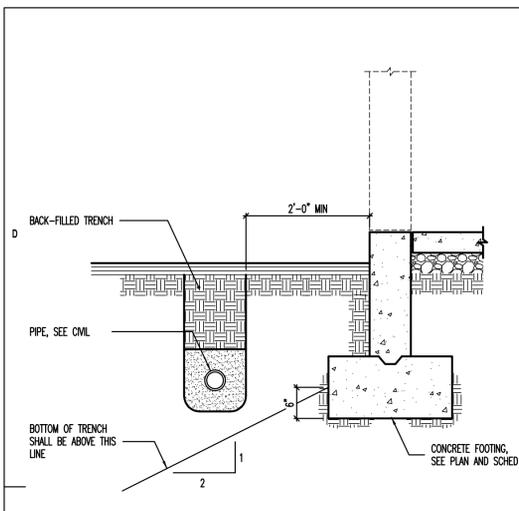
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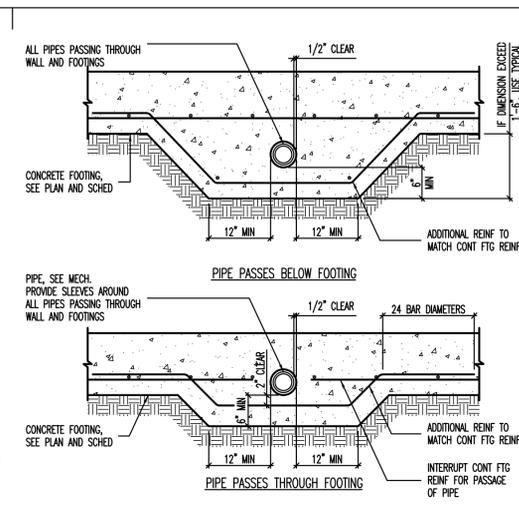
**7 ENGINEERED FILL DETAIL** NO SCALE

DATE: 06/16/07

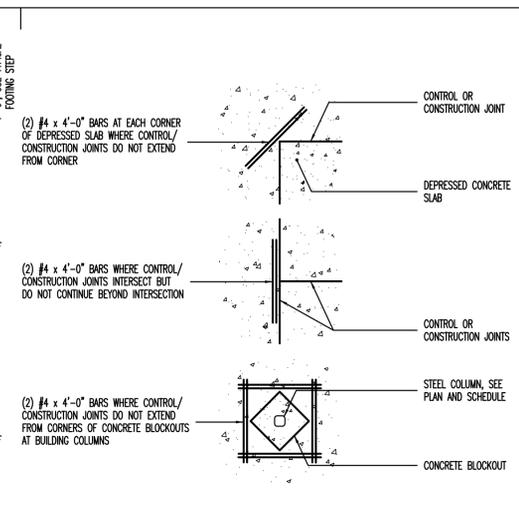
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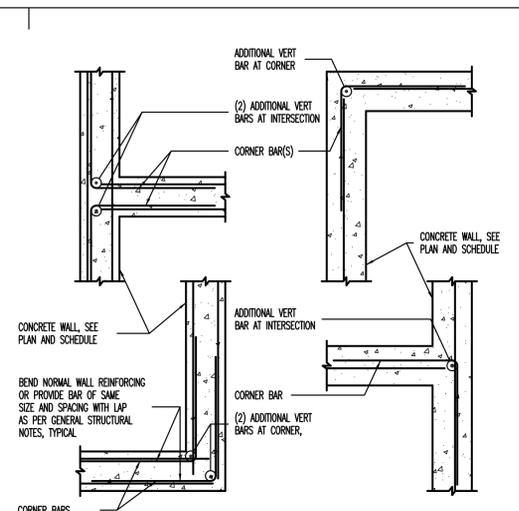
1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING  
NO SCALE



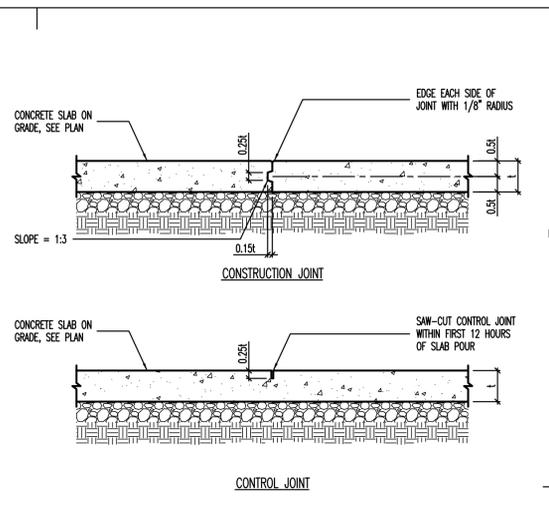
2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING  
NO SCALE



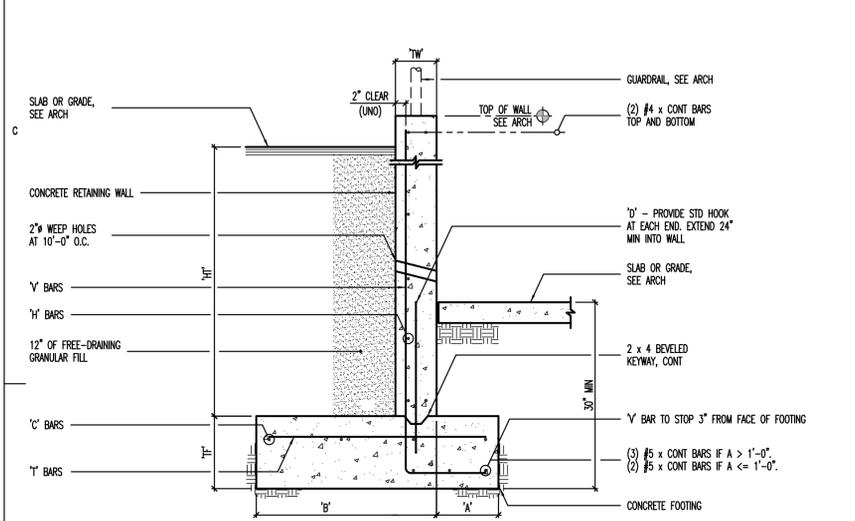
3 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING  
[PLAN VIEW]  
NO SCALE



4 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS  
[PLAN VIEW]  
NO SCALE



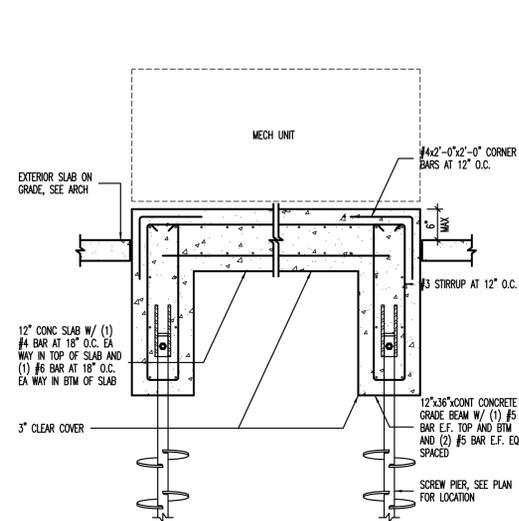
5 TYPICAL SLAB ON GRADE JOINT DETAILS  
NO SCALE



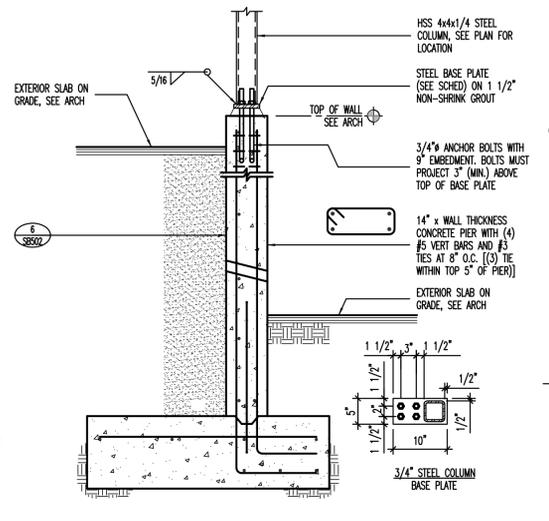
6 CONCRETE RETAINING WALL SCHEDULE  
NO SCALE

CONCRETE RETAINING WALL SCHEDULE													
HT	A	B	TW	TF	V		H		C		D	COMMENTS	
					SIZE	SPACE	SIZE	SPACE	SIZE	SPACE			
9'-6"	2'-0"	6'-0"	10"	14"	#6	17"	#5	15"	#6	17"	#5	18"	
7'-6"	1'-6"	4'-0"	8"	12"	#5	15"	#4	12"	#5	15"	#5	12"	
5'-6"	1'-0"	2'-0"	8"	12"	#5	18"	#4	12"	#4	18"	#5	12"	CENTER REIN IN WALL
4'-0"	0'-8"	1'-4"	8"	12"	#4	18"	#4	12"	#4	18"	#5	12"	CENTER REIN IN WALL

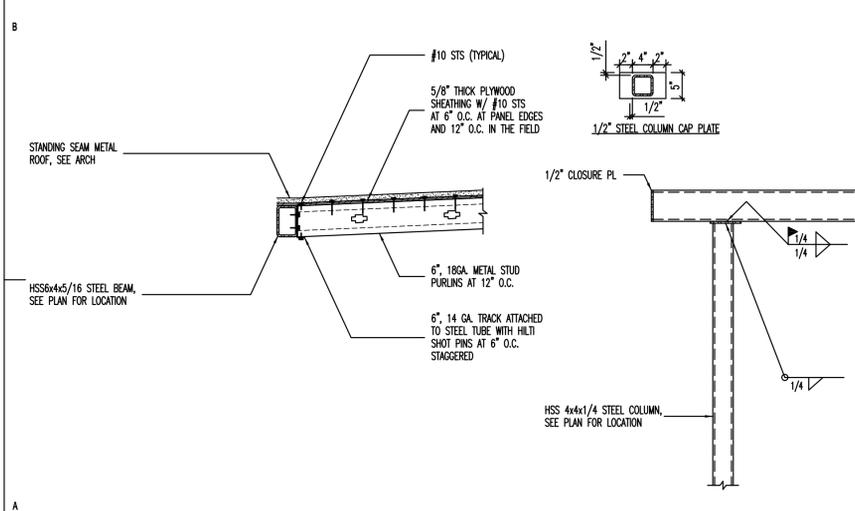
CONCRETE RETAINING WALL NOTES:  
 1. V BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL.  
 2. WHERE 'HT' IS GREATER THAN 9'-0", THEN ONE HALF OF THE 'V' BARS MAY BE DISCONTINUED AT MID-HEIGHT OF WALL.  
 3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



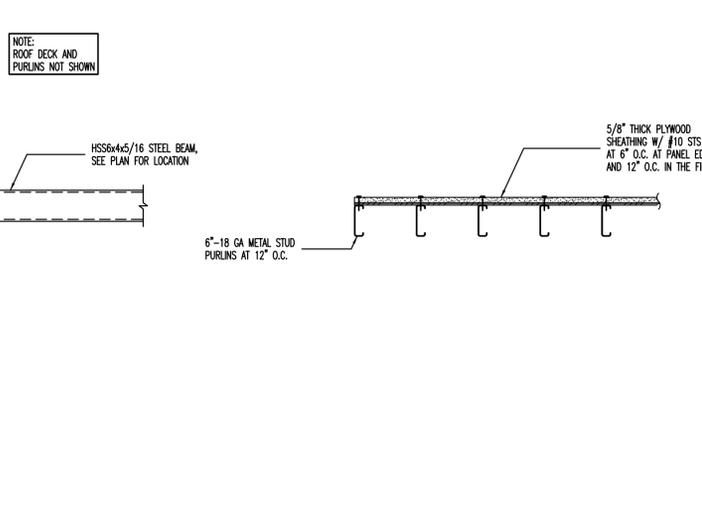
7 MECHANICAL PAD DETAIL FOR AREA '2'  
NO SCALE



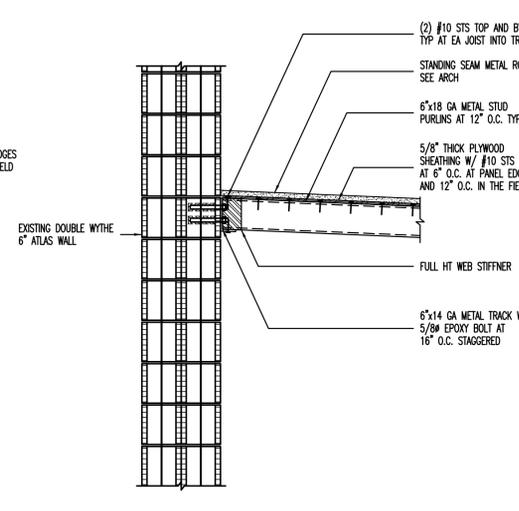
8 STEEL COLUMN/RETAINING WALL SCHEDULE  
NO SCALE



9 CANOPY DETAIL  
NO SCALE



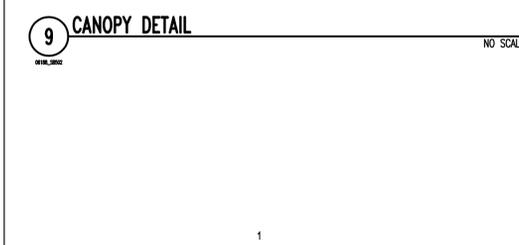
10 CANOPY DETAIL  
NO SCALE



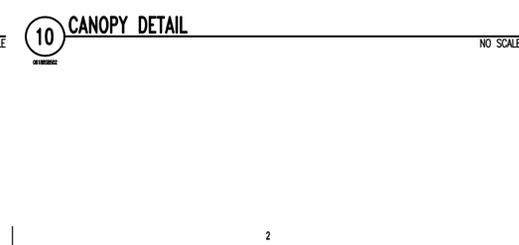
11 CANOPY DETAIL  
NO SCALE



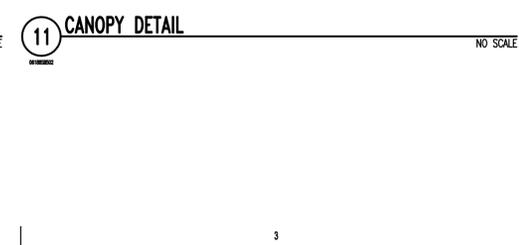
12 CANOPY DETAIL  
NO SCALE



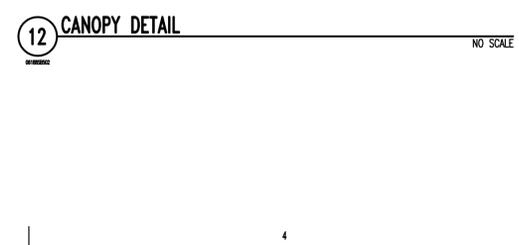
9 CANOPY DETAIL  
NO SCALE



10 CANOPY DETAIL  
NO SCALE



11 CANOPY DETAIL  
NO SCALE



12 CANOPY DETAIL  
NO SCALE

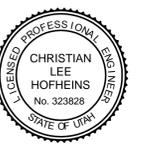


12 CANOPY DETAIL  
NO SCALE



SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.  
108 West Center Street  
Bountiful, Utah 84010  
Telephone: 801.298.1988  
Telefax: 801.298.2182  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP



CONSULTANTS:



PROJECT NAME:

COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE

451 EAST 400 NORTH  
PRICE, UTAH 84501

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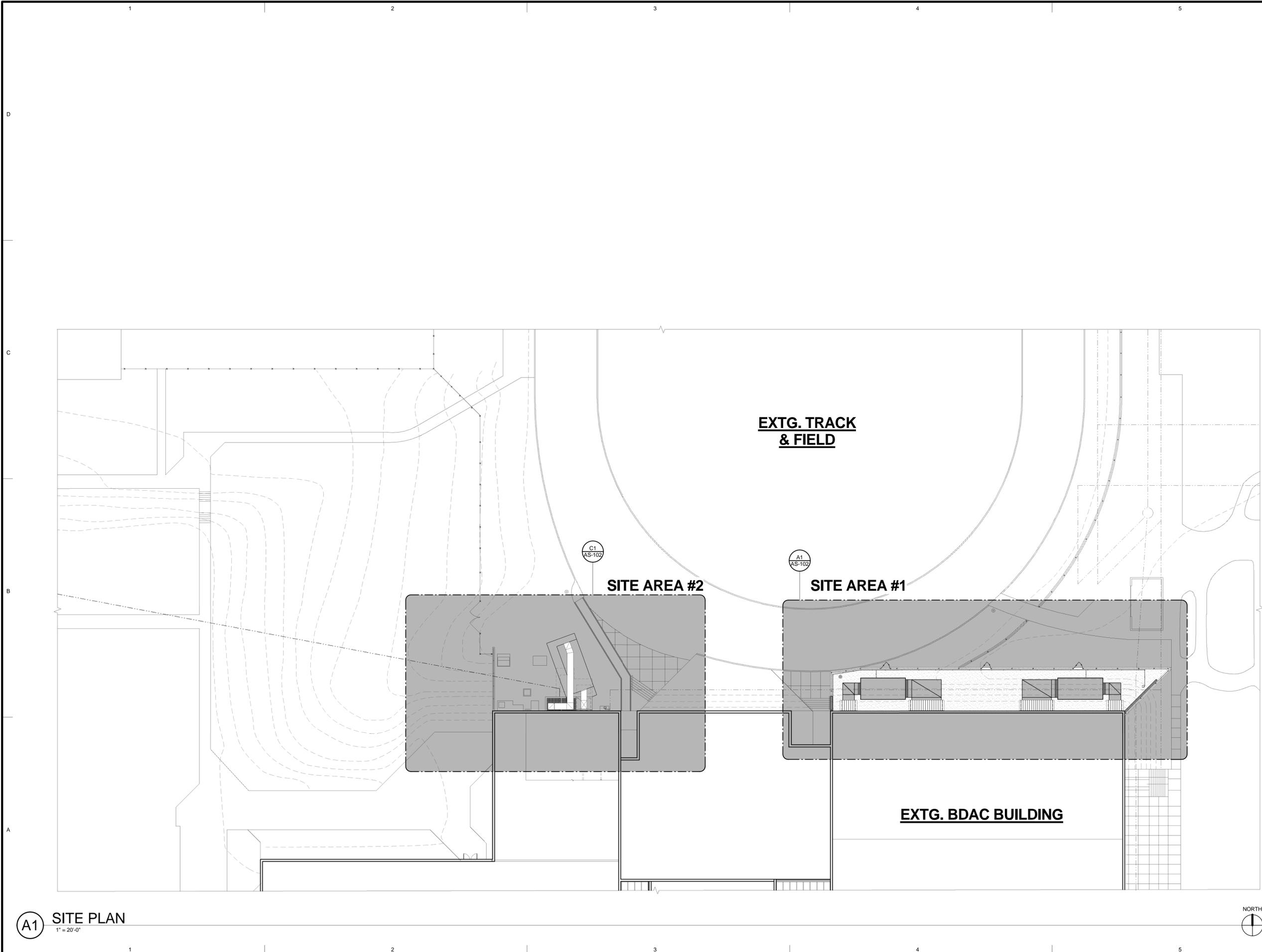
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DETAILS AND SCHEDULES

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SB502

"Engineering Results"  
**BHB**  
 BHB Consulting Engineers  
 A Professional Corporation  
 244 West 300 North  
 Suite 202  
 Salt Lake City, Utah 84103  
 Phone: 801.355.5656  
 Fax: 801.355.5990  
 Email: info@bhb-engineers.com



**(A1) SITE PLAN**  
1" = 20'-0"

ARCHITECTS INFORMATION



**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:

STRUCTURAL ENGINEER  
DIB ENGINEERING

MECHANICAL ENGINEER  
VIRA CONSULTING

ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS

PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**

451 EAST 400 NORTH  
PRICE, UTAH 84601

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**SITE PLAN**

SHEET NUMBER:  
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SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:  
STRUCTURAL ENGINEER  
3RD ENGINEERING  
MECHANICAL ENGINEER  
VIRBA CONSULTING  
ELECTRICAL ENGINEER  
SPECIALTY ENGINEERS  
SPECIALISTS

PROJECT NAME:  
COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE  
451 EAST 400 NORTH  
PRICE, UTAH 84601

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ENLARGED SITE PLAN

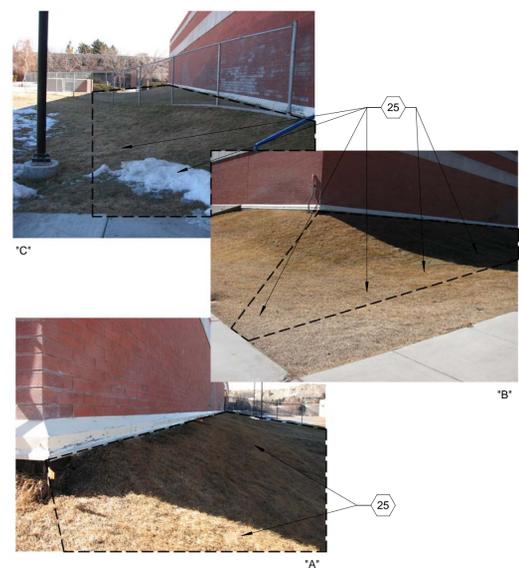
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AS-102

### KEYED NOTES

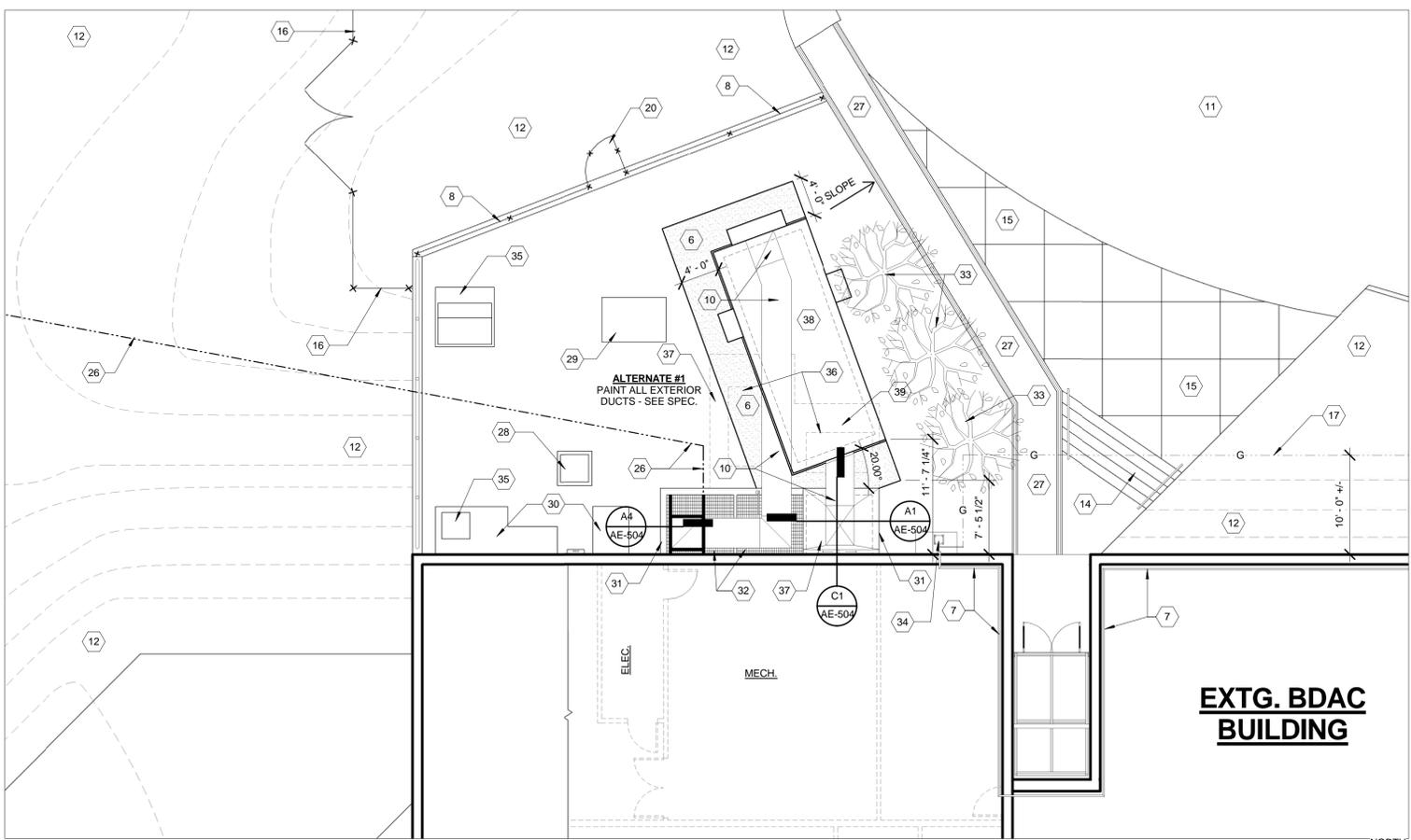
- NEW MECHANICAL UNIT ON CONCRETE HOUSE KEEPER PAD - SEE MECHANICAL & STRUCTURAL DRAWINGS & DETAILS INDICATED.
- SAWCUT NEW 4'-8"(H) X 14'-8"(W) OPENING IN CONCRETE FOUNDATION WALL - SEE ELEVATION & STRUCTURAL DRAWINGS.
- SAWCUT NEW 4'-8"(H) X 6'-2"(W) OPENING IN CONCRETE FOUNDATION WALL - SEE ELEVATION & STRUCTURAL DRAWINGS.
- NEW CONCRETE FOOTING & FOUNDATION WALL BELOW CANOPY ROOF - SEE ELEVATION & STRUCTURAL DRAWINGS.
- NEW GAS METER ON CONCRETE PAD - SEE MECHANICAL DRAWINGS.
- NEW 4" CONCRETE SLAB ON 4" DRAINAGE FILL - REFER TO SECTIONS & REFER TO SHEET AS-103 FOR CONCRETE SLAB ELEVATIONS.
- NEW GAS LINE REFER TO MECHANICAL DRAWINGS - REFER TO DETAILS A3/AE-501 & A4/AE-501.
- NEW CHAIN LINK FENCE MATCH HEIGHT OF EXTG. - PROVIDE 12" WIDE CONCRETE MOW STRIP - REFER TO DETAIL A1/AE-501.
- NEW CONCRETE RETAINING WALL - REFER TO DETAIL & SEE STRUCTURAL DRAWINGS.
- NEW MECHANICAL DUCTS - REFER TO MECHANICAL DRAWINGS - REFER FOR EXACT LOCATION & SIZE ALSO REFER TO DETAIL D3/AE-502.
- EXTG. TRACK TO REMAIN PROTECT FROM DAMAGE.
- EXTG. LANDSCAPING TO REMAIN PROTECT & RESTORE AS REQ'D.
- EXTG. STRUCTURE TO REMAIN.
- EXTG. STAIRS TO REMAIN.
- EXTG. CONCRETE SIDEWALK TO REMAIN.
- EXTG. CHAIN LINK FENCE & CONCRETE MOW STRIP TO REMAIN.
- APPROXIMATE LOCATION EXTG. UNDERGROUND GAS LINE TO BE REMOVED - REFER TO MECHANICAL DRAWINGS - CONTRACTOR TO F.V. LOCATION.
- EXTG. EXTERIOR LIGHT POLE TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. CHAIN LINK FENCE SHOWN DASHED & CONCRETE MOW STRIP TO BE REMOVED.
- NEW 4' WIDE CHAIN LINK FENCE GATE.
- NEW STANDING SEAM METAL CANOPY ROOF - REFER TO ELEVATION & SECTIONS FOR DETAILS.
- NEW GAS LINE ON TREATED 2X'S - REFER TO MECHANICALS DRAWINGS FOR EXACT PLACEMENT - HOLD TIGHT TO FENCE.
- CENTER NEW CHAIN LINK GATE WITH CENTER OF COOLING COIL IN THE MECHANICAL UNIT.
- MATCHING PREFINISHED RAIN GUTTER / DOWNSPOUT SYSTEM - INSTALL TO DRAIN TO DOWNSPOUT AS INDICATED.
- EXCAVATE TO NEW GRADE AS REQUIRED TO COMPLETE NEW WORK - SEE AE-103 FOR FINAL GRADES.
- APPROXIMATE LOCATION EXTG. STEAM & CONDENSATE LINE TO REMAIN.
- EXTG. RAMP TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXTG. ELECTRICAL MAN HOLE.
- EXTG. ELECTRICAL TRANSFORMER.
- EXTG. CONCRETE PAD TO REMAIN.
- EXTG. CONCRETE MECHANICAL WELL TO REMAIN.
- EXTG. STEEL GRATE OVER WELL TO BE MODIFIED PER DETAILS INDICATED
- EXTG. TREES TO REMAIN.
- EXTG. GAS METER TO BE REMOVED - REFER TO MECHANICAL DRAWINGS.
- EXTG. ELECTRICAL UNITS TO REMAIN.
- REMOVE EXTG. MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
- NEW SHEET METAL FLASHING AROUND NEW DUCT - WELD CORNERS OF SHEET METAL AS REQUIRED - REFER TO DETAIL INDICATED.
- NEW MECHANICAL UNIT ON SPECIAL STRUCTURAL CONCRETE HOUSE KEEPER PAD - SEE STRUCTURAL DRAWINGS - SEE MECHANICAL DRAWINGS.
- DEMOLISH EXTG. CONCRETE PAD AS REQUIRED.

### GENERAL NOTES

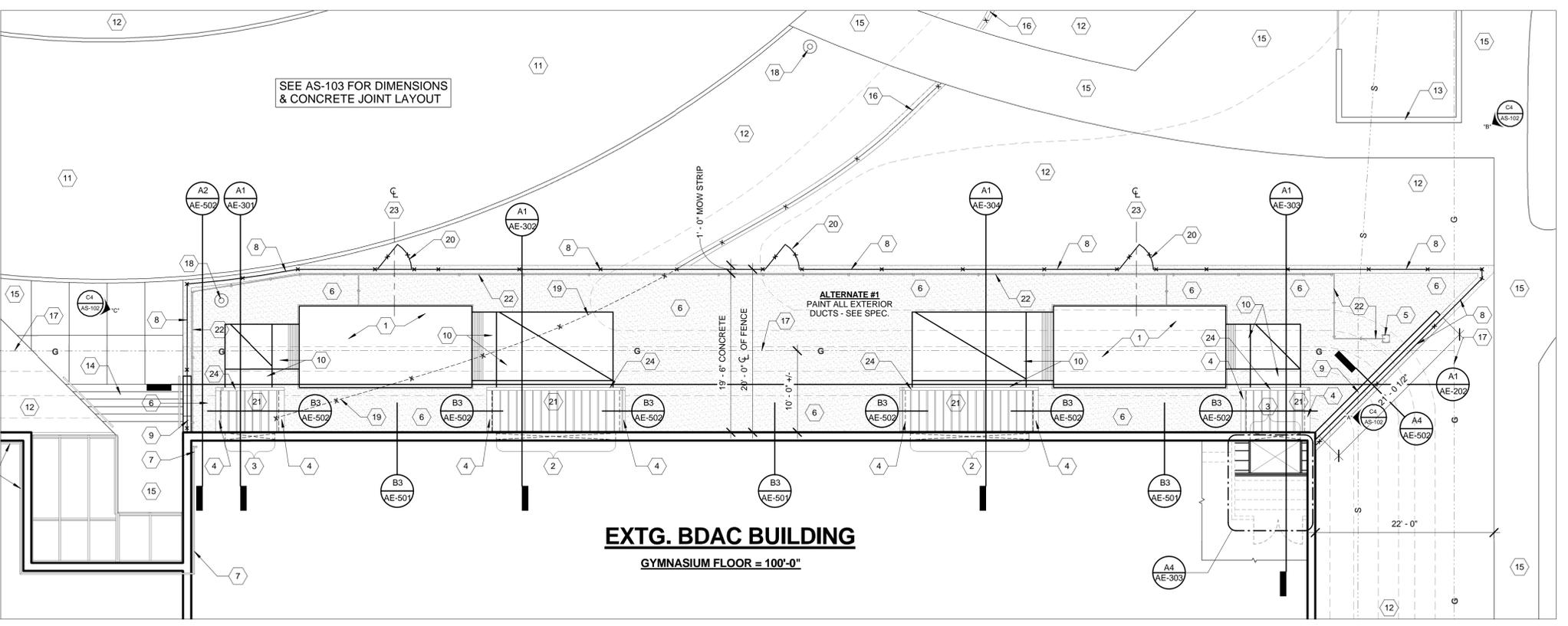
- ALL GAS LINE UTILITY RELOCATION WORK MUST BE COMPLETED BEFORE ANY OTHER WORK IS BEGUN. SHUT DOWN OF EXISTING GAS LINES IS TO BE KEPT TO A MINIMUM AMOUNT OF TIME. A 48 HOUR NOTICE MUST BE GIVEN TO OWNER PRIOR TO DISCONNECTING THE UTILITY.
- REMOVE EXTG. IRRIGATION SYSTEM IN AREA OF CONSTRUCTION.
- ALL DIMENSIONS NEED TO BE FIELD VERIFIED.
- ALL NEW WOOD THAT COMES IN CONTACT WITH CONCRETE OF MASONRY SHALL BE PRESERVATIVE TREATED.
- PROTECT ALL EXISTING IMPROVEMENTS INCLUDING LANDSCAPING, SPRINKLING SYSTEMS, SIDEWALKS, PARKING AREAS, SURROUNDING ROOFS ETC. - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION (TO THE SATISFACTION OF THE OWNER AND ARCHITECT).
- SALVAGE SPRINKLERS HEADS TO OWNER.
- STOCK PILE 6" TOP SOIL FOR OWNER TO PICK UP & USE.
- ALL EXCESS EXCAVATED EARTH CAN BE DISPOSED OF ON CEU CAMPUS - HAUL TO LOCATION AS DIRECTED BY OWNER.



C4 PHOTOS  
1 1/2" = 1'-0"



C1 ENLARGED SITE PLAN AREA #2  
1/8" = 1'-0"



A1 ENLARGED SITE PLAN AREA #1  
1/8" = 1'-0"

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**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:  
STRUCTURAL ENGINEER  
BBB ENGINEERING  
MECHANICAL ENGINEER  
VIRA CONSULTING  
ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS  
MTC/SLAM

PROJECT NAME:  
**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

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SPE PROJECT #: 06-35  
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SHEET TITLE  
**DIMENSION &  
JOINT PLAN**

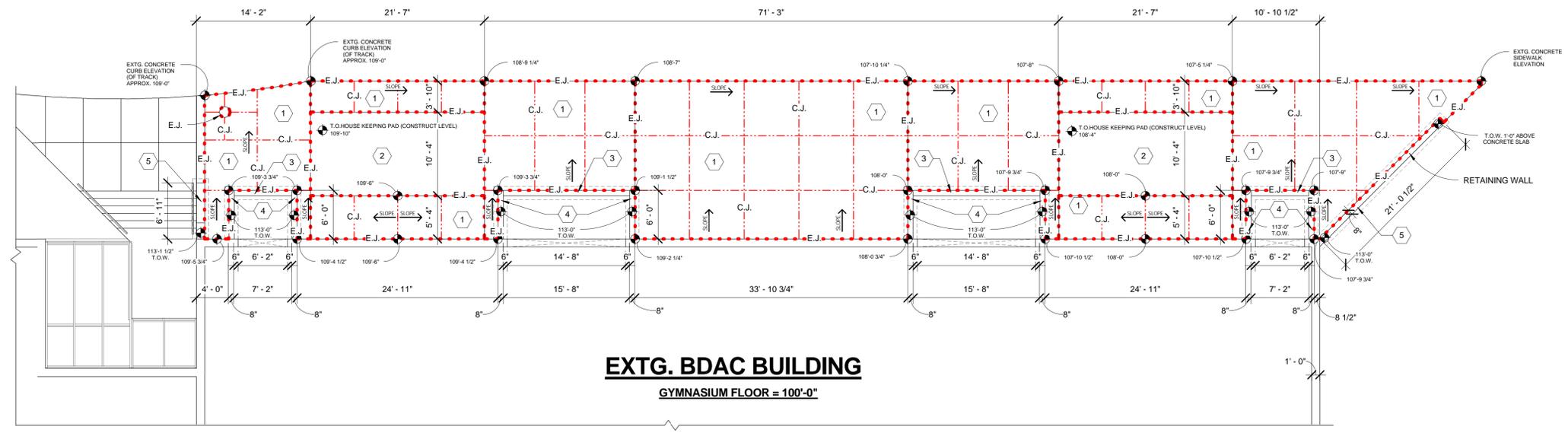
SHEET NUMBER:  
**AS-103**

**KEYED NOTES**

- 1 4" CONCRETE SLAB (SLOPE AWAY FROM BUILDING AS SHOWN - SEE PLAN FOR EXACT ELEVATIONS) ON 4" DRAINAGE FILL - LAYOUT JOINTS AS SHOWN.
- 2 8" REINFORCING CONCRETE PAD FOR MECHANICAL UNIT (CONSTRUCT PAD LEVEL) ON 12" STRUCTURAL FILL - SEE STRUCTURAL DRAWINGS.
- 3 NEW CONCRETE GRADE BEAM WITH FOOTING - SEE STRUCTURAL DRAWINGS.
- 4 NEW CONCRETE BRACE WALLS WITH FOOTINGS - SEE STRUCTURAL DRAWINGS.
- 5 NEW CONCRETE RETAINING WALL - SEE STRUCTURAL DRAWINGS.

**SYMBOL KEY**

- C.J.--- CONTROL JOINT TO BE SAWCUT OR TOOLED JOINTS.
- ...E.J. EXPANSION JOINT.



**A1** DIMENSION & JOINT PLAN  
1/8" = 1'-0"



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**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:  
STRUCTURAL ENGINEER  
3000 ENGINEERING  
MECHANICAL ENGINEER  
VIRA CONSULTING  
ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS  
ARCHITECT

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**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

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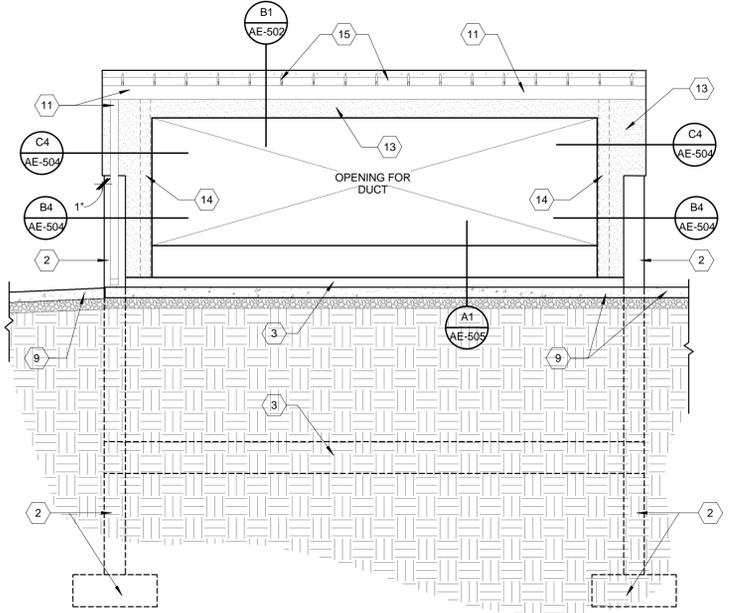
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SHEET TITLE  
**ELEVATION**

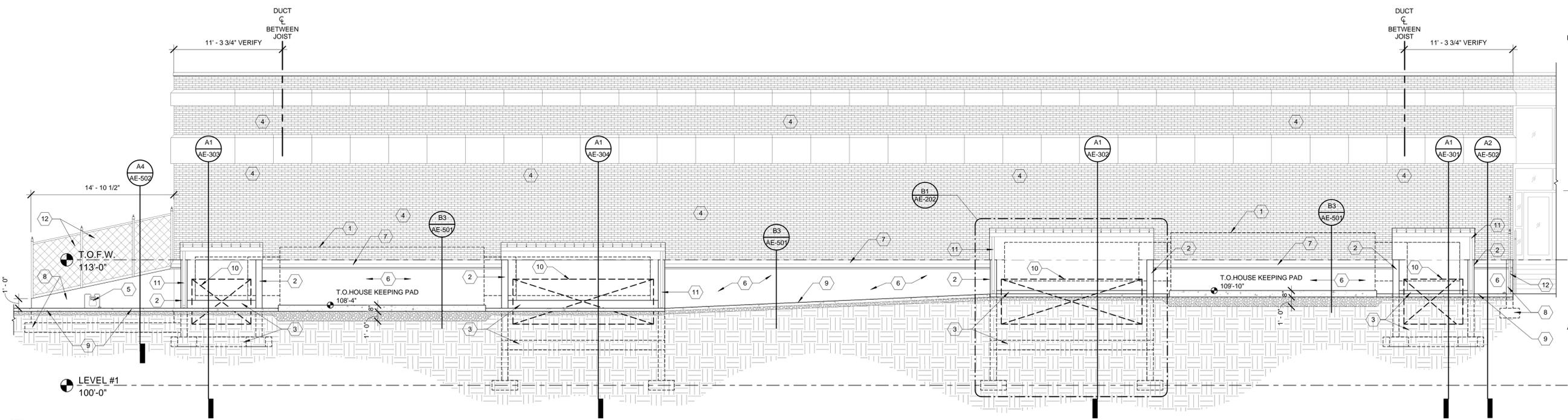
SHEET NUMBER:  
**AE-202**

**KEYED NOTES**

- 1 NEW MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
- 2 NEW CONCRETE WALL WITH FOOTING - SEE STRUCTURAL DRAWINGS.
- 3 NEW CONCRETE GRADE BEAM WITH FOOTING - SEE STRUCTURAL DRAWINGS - PROVIDE COMPACTED FILL BENEATH FOOTING.
- 4 EXTG. MASONRY WALL TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 5 NEW GAS METER ON 4'-0" X 4'-0" CONCRETE PAD - SEE MECHANICAL DRAWINGS.
- 6 NEWLY EXPOSED CONCRETE FOUNDATION WALL - WATER PROOF & INSTALL EIFS PER DETAIL B3/AE-501.
- 7 EXTG. FOUNDATION WALL METAL CAP TO REMAIN PAINT - REFER TO DETAIL B3/AE-501.
- 8 NEW CONCRETE RETAINING WALL - REFER TO DETAIL & SEE STRUCTURAL DRAWINGS.
- 9 NEW 4" CONCRETE SLAB OVER 4" GRAVEL BASE.
- 10 THICK DASHED LINE REPRESENTS NEW OPENING IN CONCRETE FOUNDATION WALL BEYOND - SEE STRUCTURAL DRAWINGS.
- 11 PREFINISHED RAIN GUTTER / DOWNSPOUT SYSTEM - INSTALL IN LOCATION AS INDICATED.
- 12 NEW CHAIN LINK FENCE MATCH EXTG. WITH 12" WIDE CONCRETE MOW STRIP - REFER TO DETAIL A1/AE-501.
- 13 NEW 1" EIFS SYSTEM - REFER TO DETAILS & SPEC.
- 14 NEW STEEL COLUMN - SEE STRUCTURAL DRAWINGS.
- 15 1-1/2" x 12" STANDING SEAM METAL ROOFING & SELF-ADHEARING POLYSTYRENE FACED UNDERLAYMENT OVER FASCIA ONTO SOFFIT BEHIND DRIP EDGE & GUTTER - SEE SPEC. & DETAILS INDICATED.

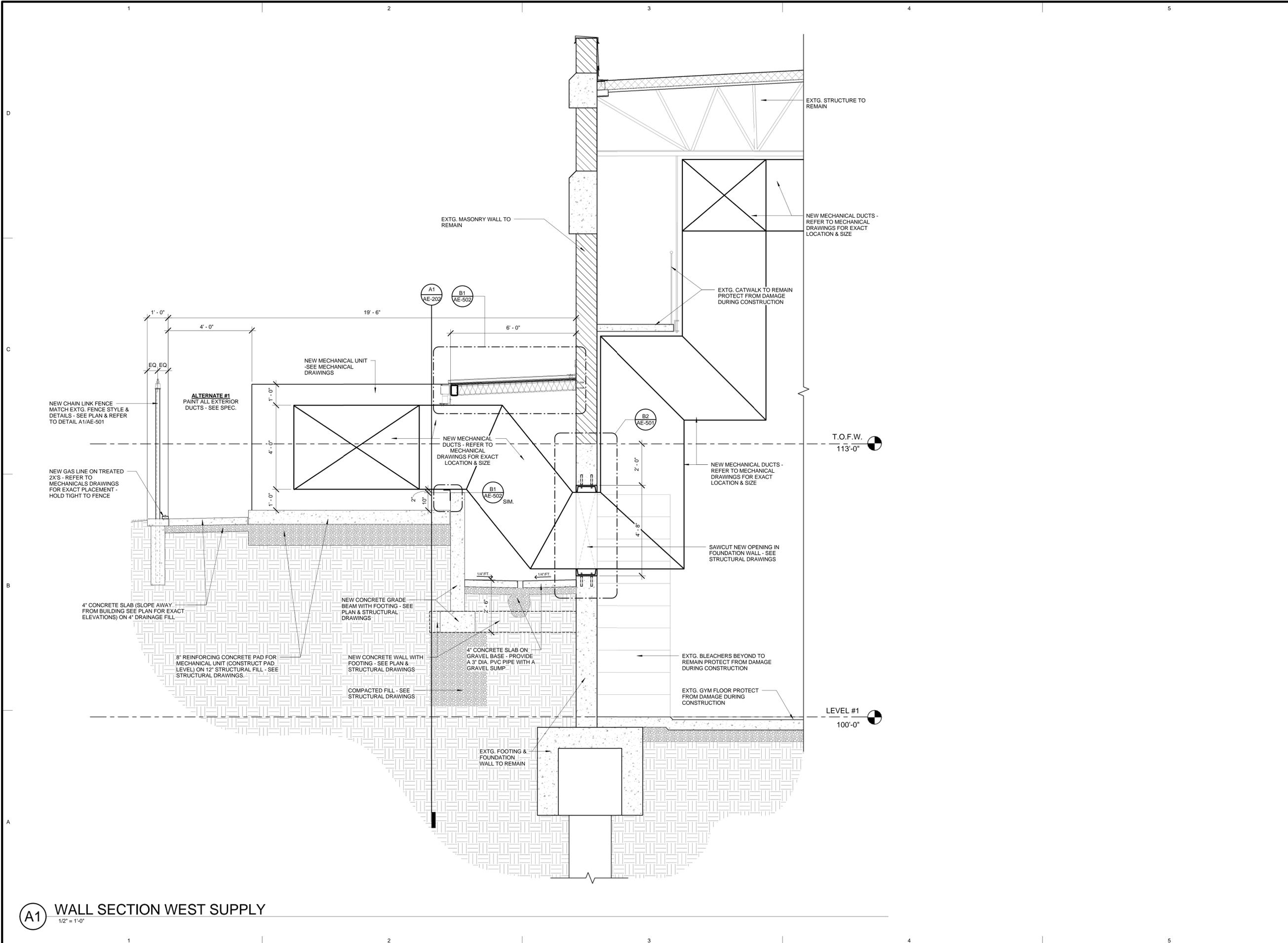


**B1** TYP. ENLARGED ELEVATION  
3/8" = 1'-0"



**A1** NORTH ELEVATION  
3/16" = 1'-0"

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**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:  
  
CONSULTANTS:  
STRUCTURAL ENGINEER  
DHW ENGINEERING  
MECHANICAL ENGINEER  
VIRA CONSULTING  
ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS  
ARCHITECT

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BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

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SHEET TITLE:  
**WALL SECTION**

SHEET NUMBER:  
**AE-301**

**A1 WALL SECTION WEST SUPPLY**  
1/2" = 1'-0"

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**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
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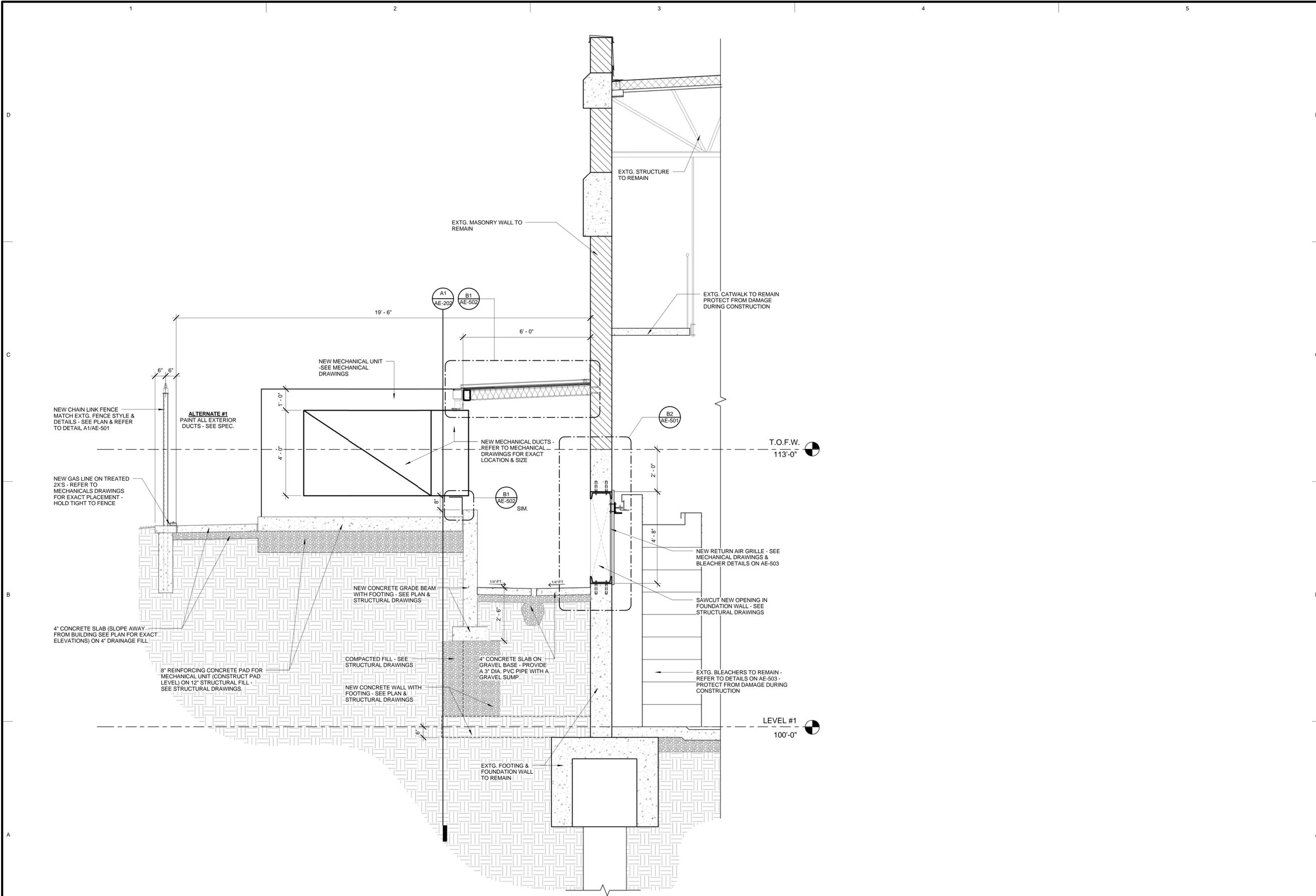
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SHEET TITLE

**WALL SECTION**

SHEET NUMBER:  
**AE-302**



**A1 WALL SECTION WEST RETURN**  
1/2" = 1'-0"

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**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



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**COLLEGE OF EASTERN UTAH  
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HVAC UPGRADE**  
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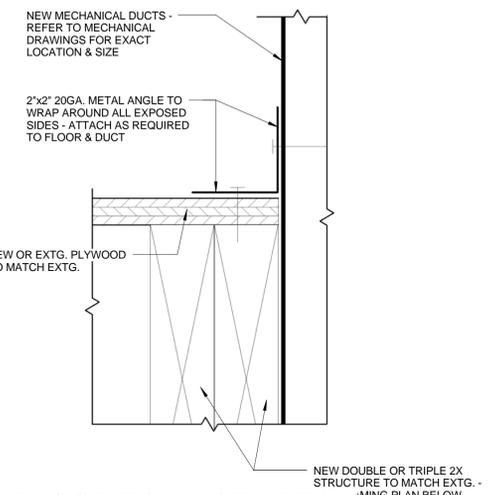
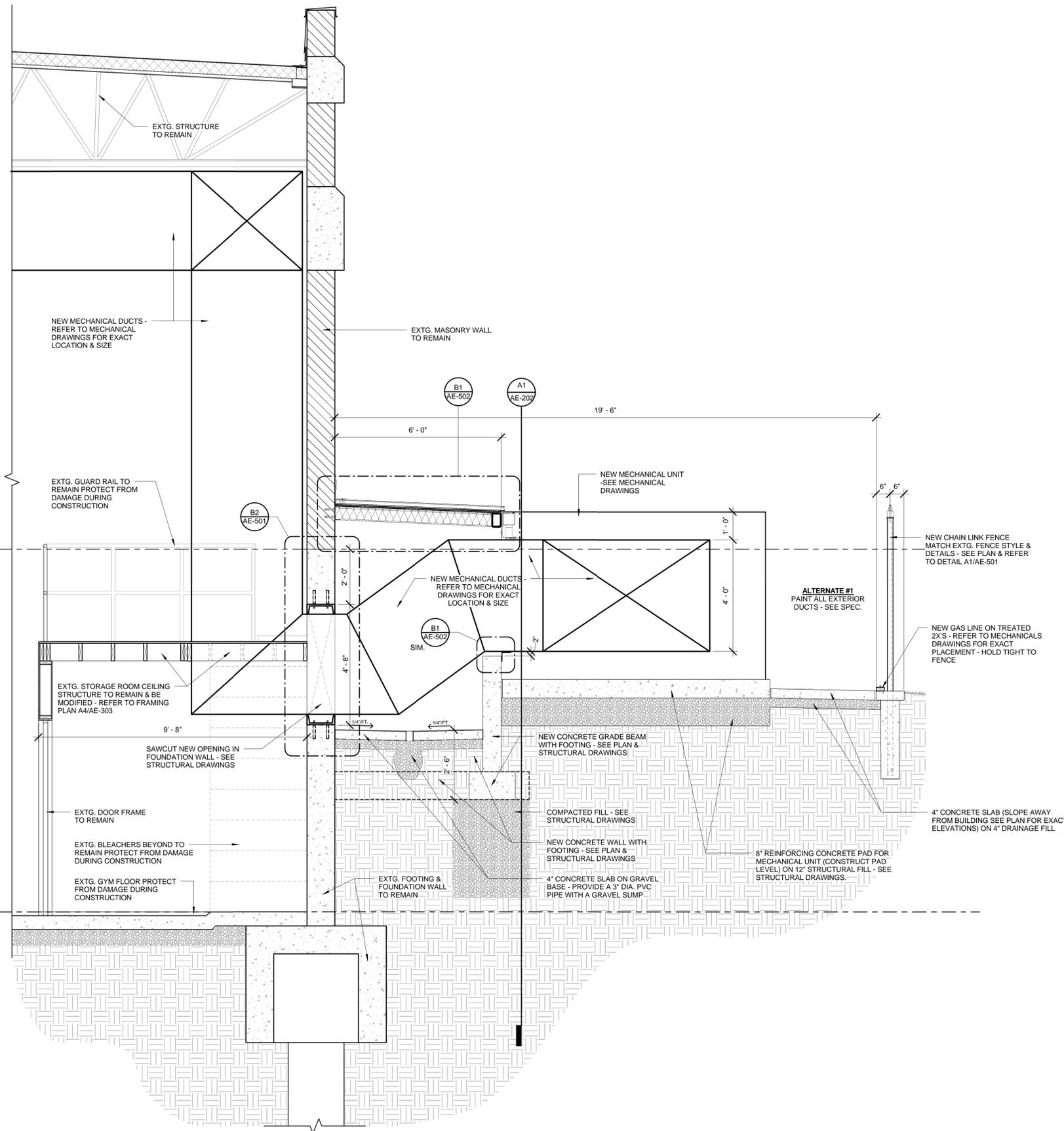
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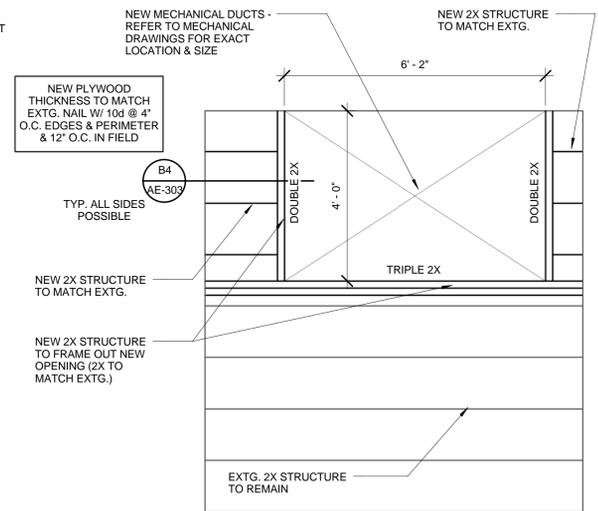
**WALL SECTION**

SHEET NUMBER:

**AE-303**



**B4 FLOOR TO DUCT DETAIL**  
6" = 1'-0"



**A4 FLOOR FRAMING PLAN**  
1/2" = 1'-0"



**A1 WALL SECTION EAST SUPPLY**  
1/2" = 1'-0"

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SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE  
451 EAST 400 NORTH  
PRICED, UTAH 84601

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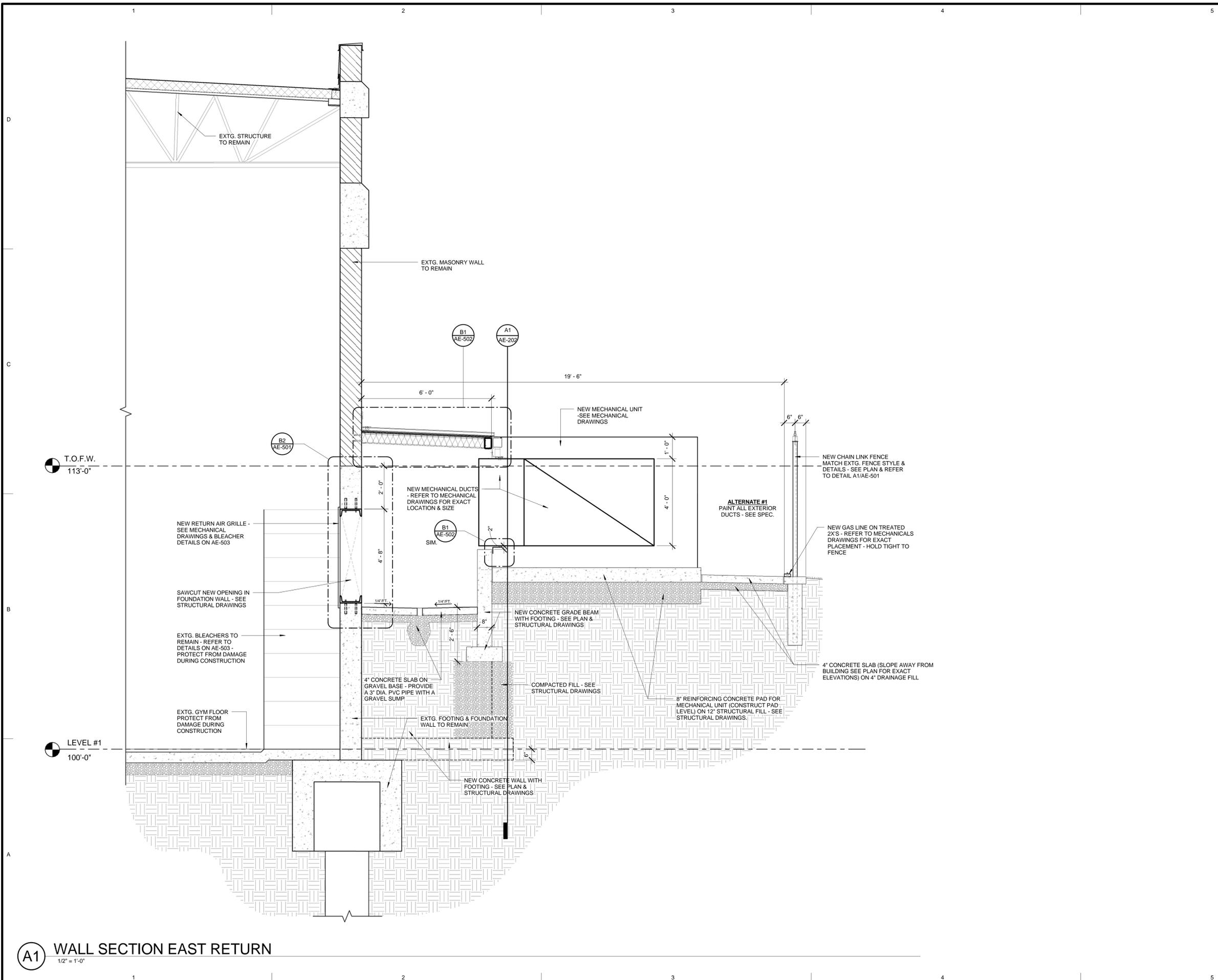
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SHEET TITLE

WALL SECTION

SHEET NUMBER:

AE-304



**(A1) WALL SECTION EAST RETURN**  
1/2" = 1'-0"

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NO.	DESCRIPTION

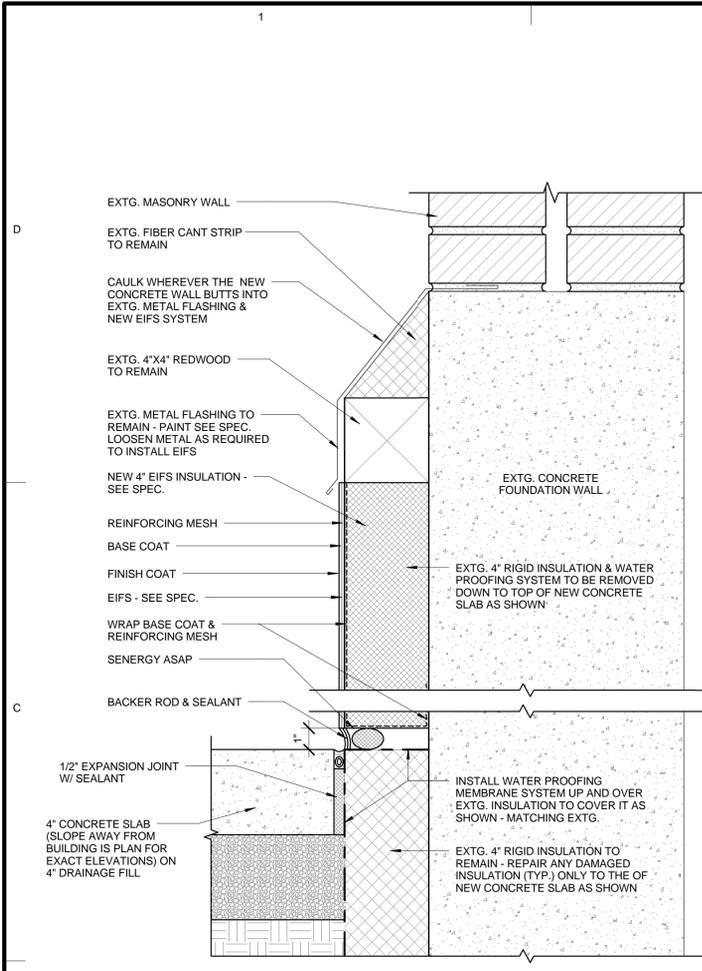
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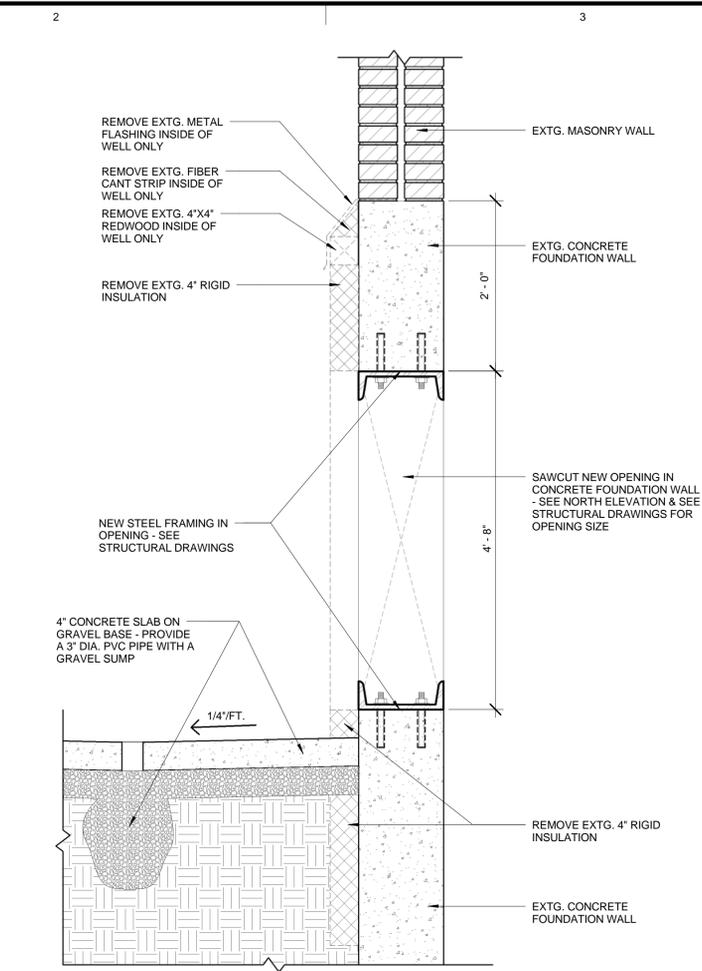
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**DETAILS**

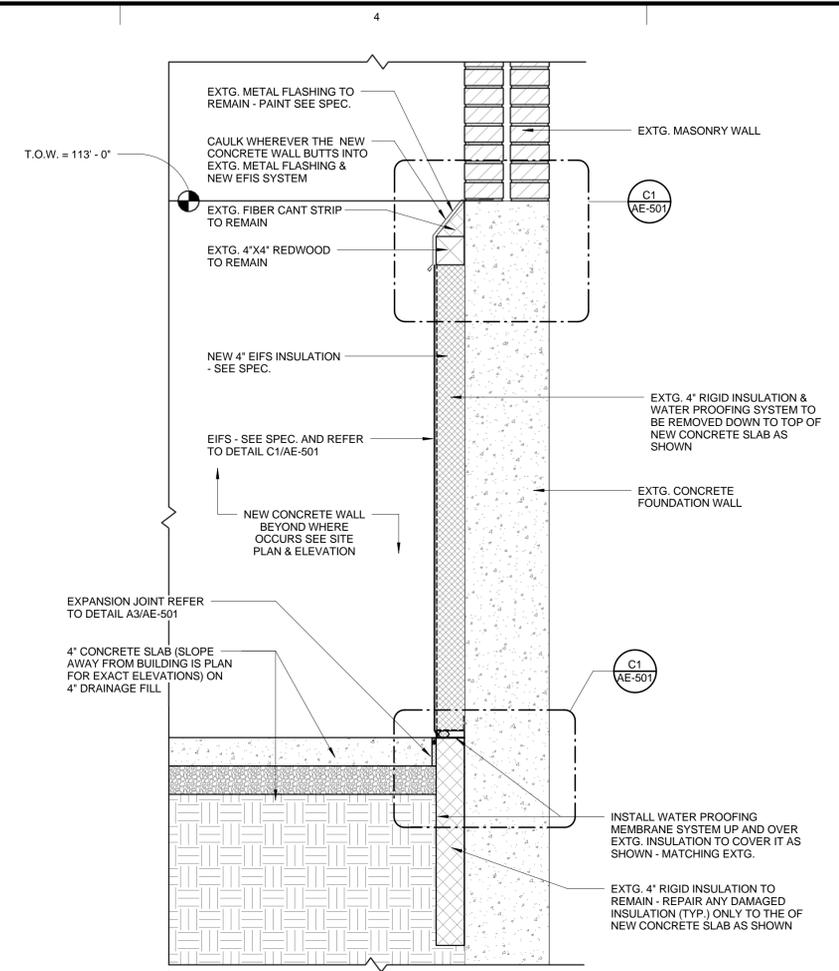
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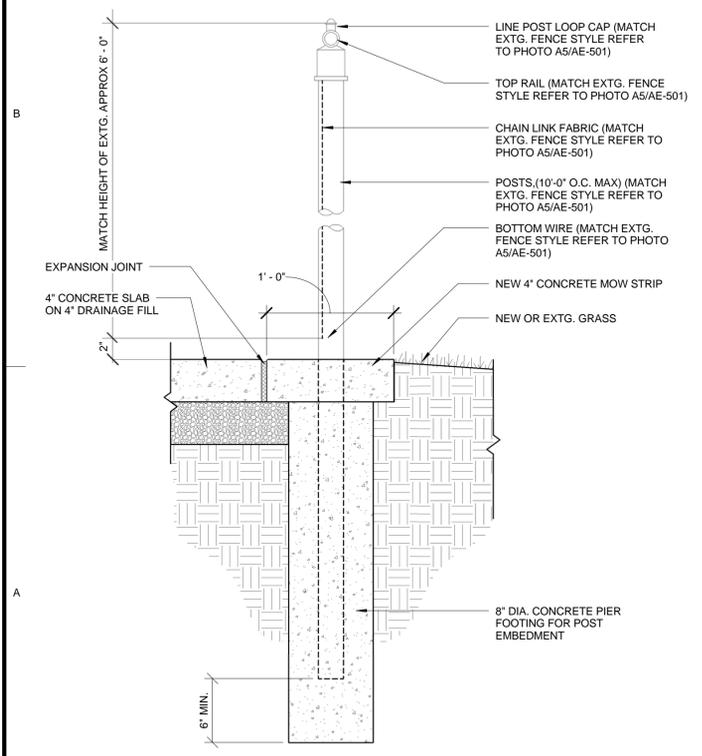
**C1 METAL FLASHING DETAIL**  
 3" = 1'-0"



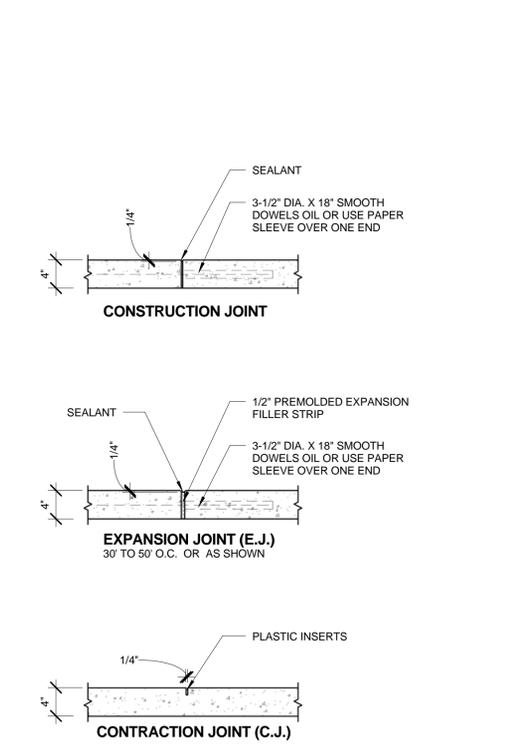
**B2 FOUNDATION WALL DETAIL**  
 1" = 1'-0"



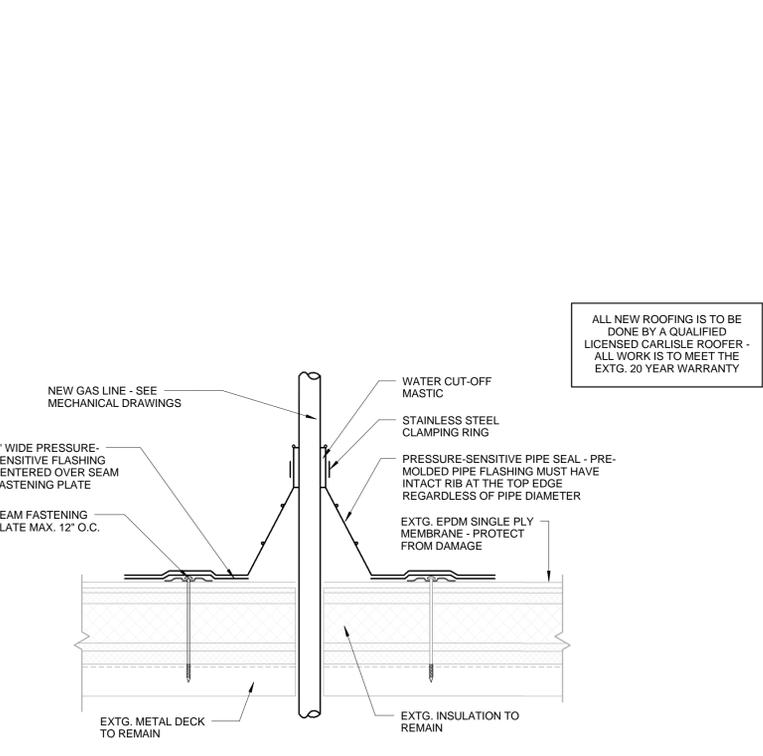
**B3 FOUNDATION WALL DETAIL**  
 1" = 1'-0"



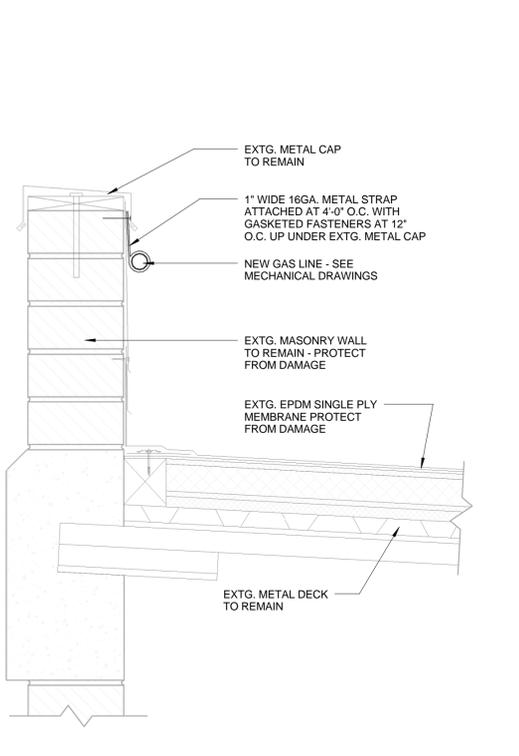
**A1 CHAIN LINK FENCE DETAIL**  
 1 1/2" = 1'-0"



**A2 CONCRETE JOINT DETAILS**  
 1" = 1'-0"



**A3 ROOF GAS LINE DETAIL**  
 3" = 1'-0"



**A4 ROOF GAS LINE DETAIL #2**  
 1 1/2" = 1'-0"



**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:  
STRUCTURAL ENGINEER  
MECHANICAL ENGINEER  
ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS

PROJECT NAME:  
**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
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451 EAST 400 NORTH  
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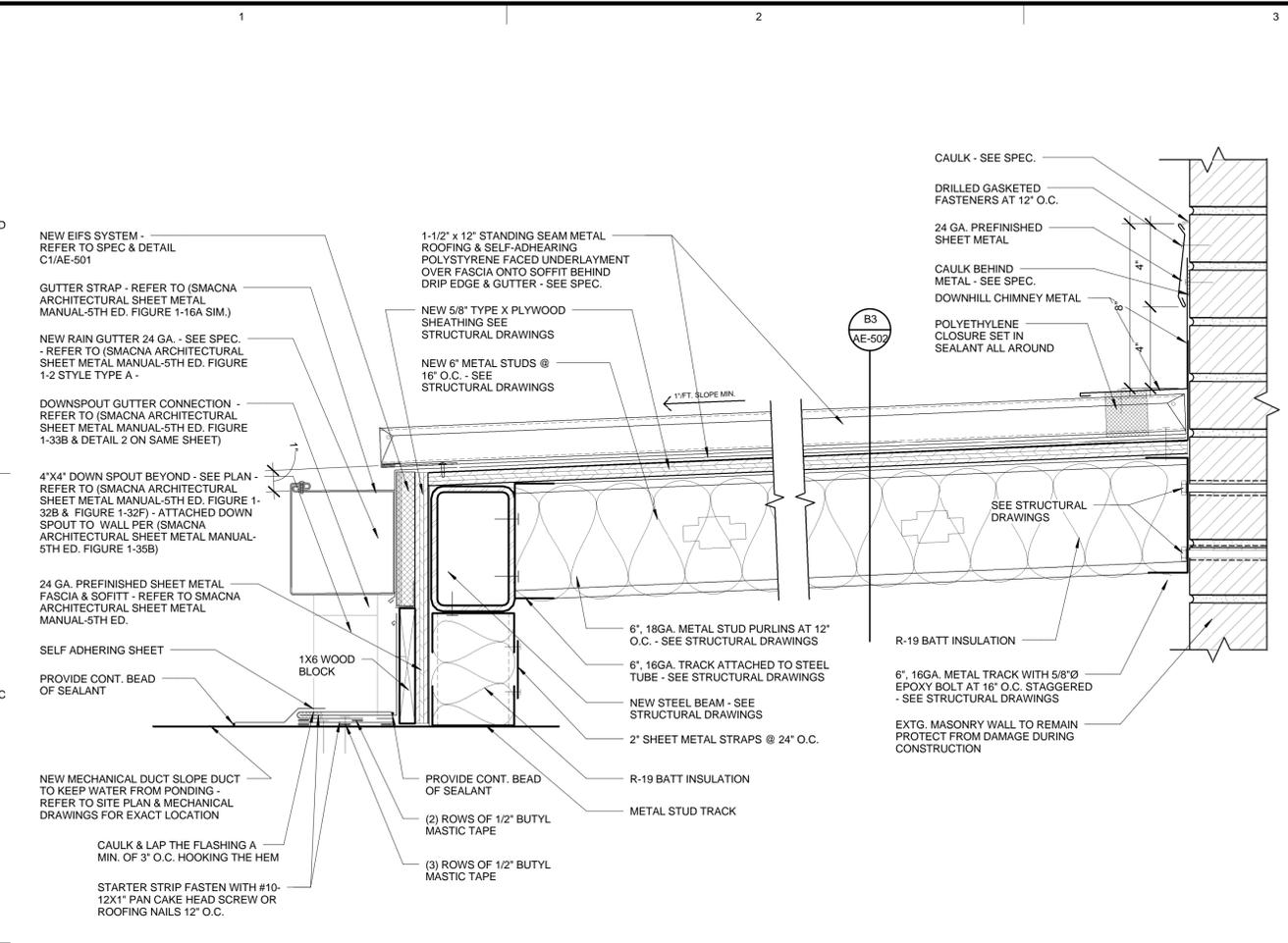
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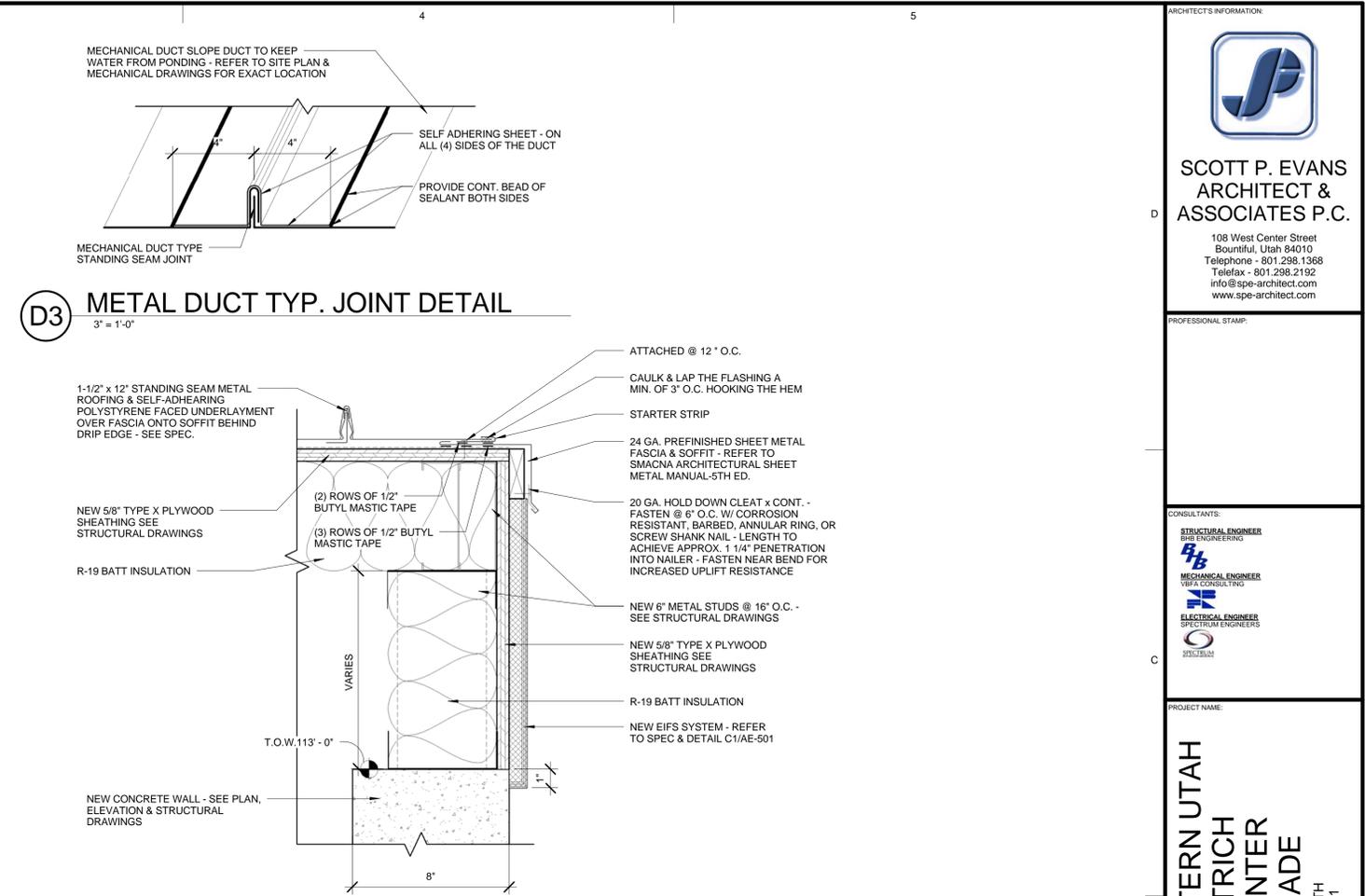
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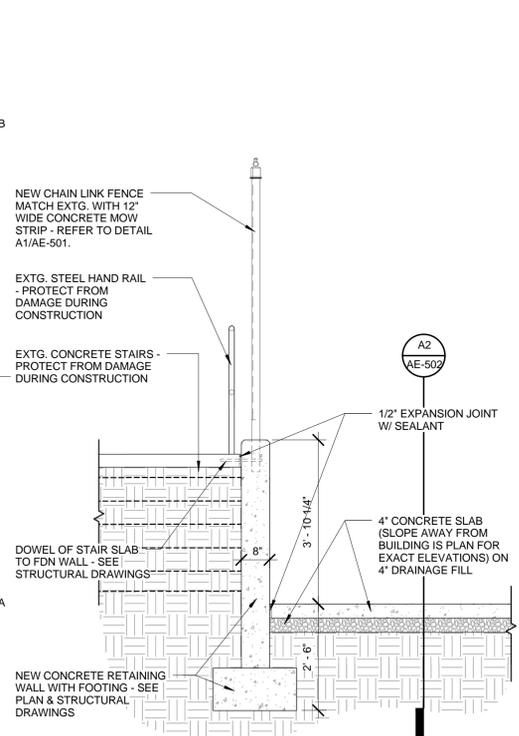
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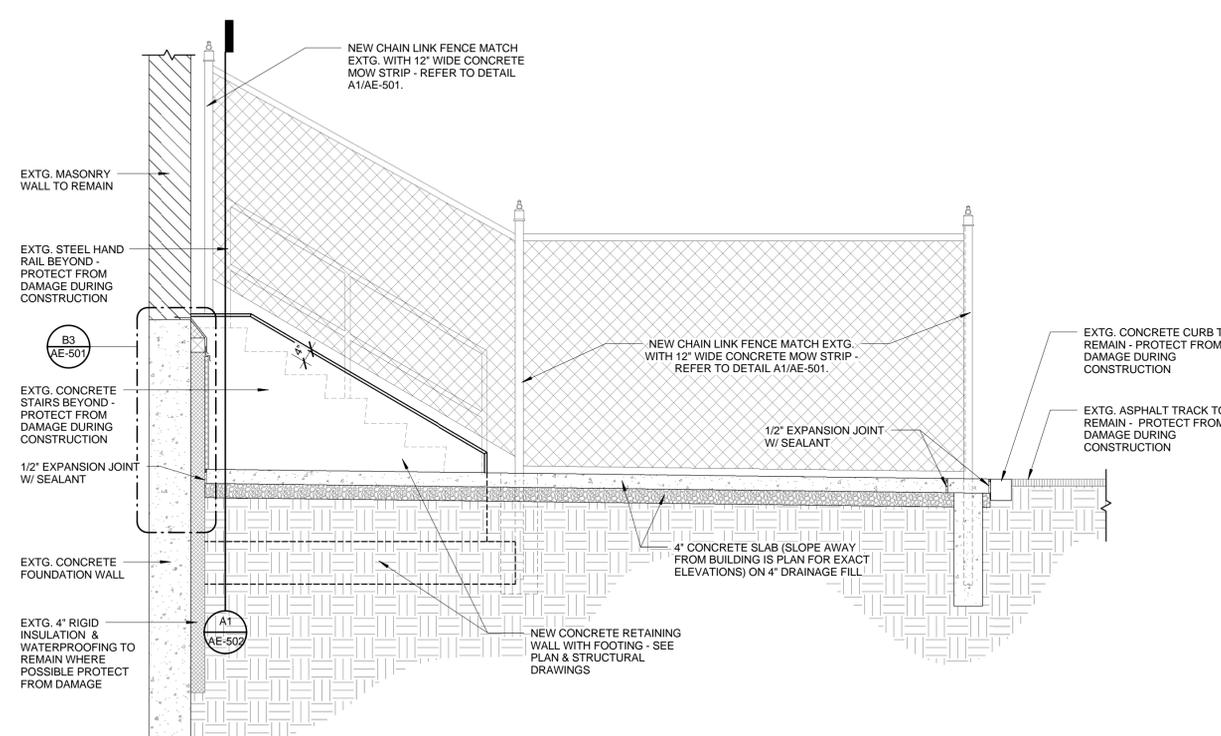
**B1 ROOF DETAIL**  
3" = 1'-0"



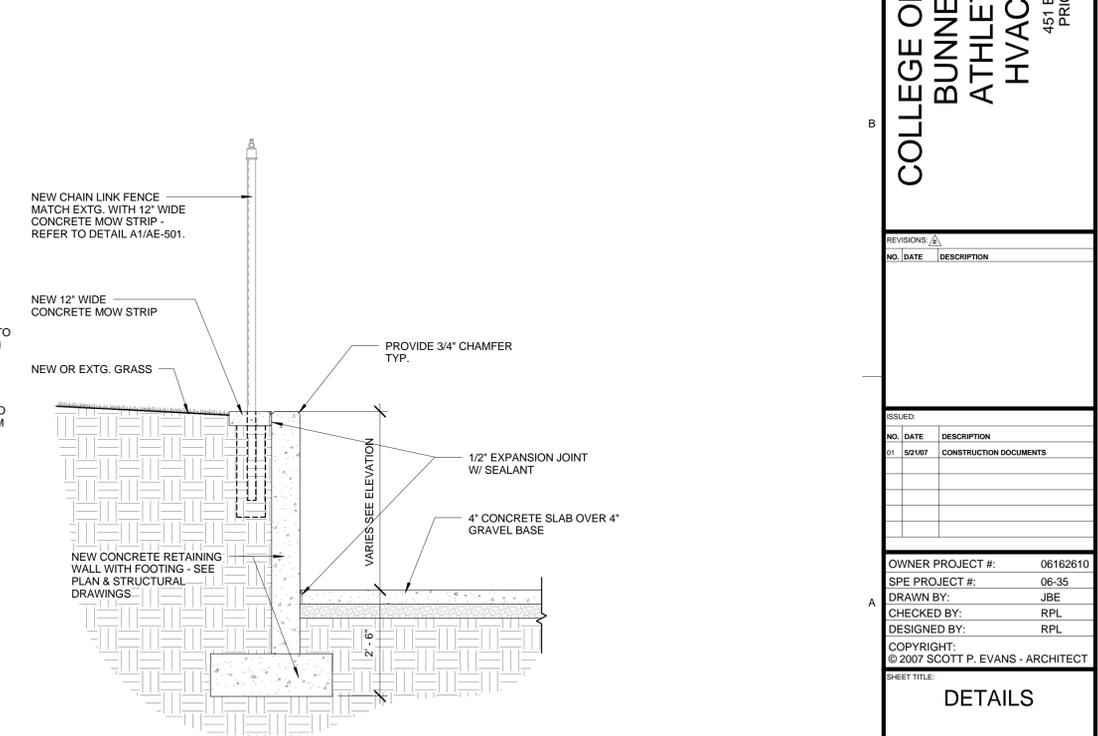
**B3 ROOF DETAIL**  
3" = 1'-0"



**A1 CONCRETE RETAINING WALL**  
1/2" = 1'-0"



**A2 CONCRETE RETAINING WALL**  
1/2" = 1'-0"



**A4 CONCRETE RETAINING WALL**  
1/2" = 1'-0"

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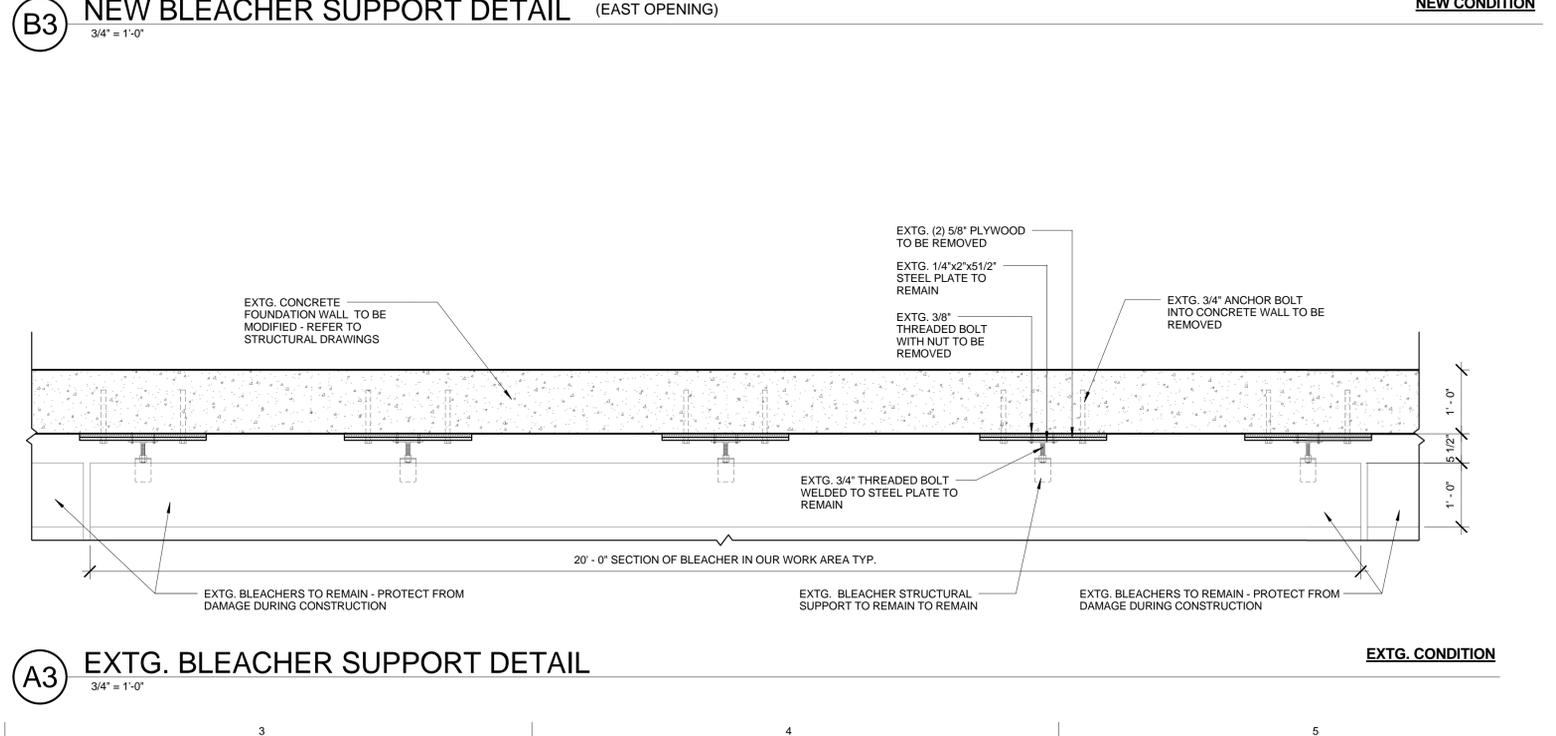
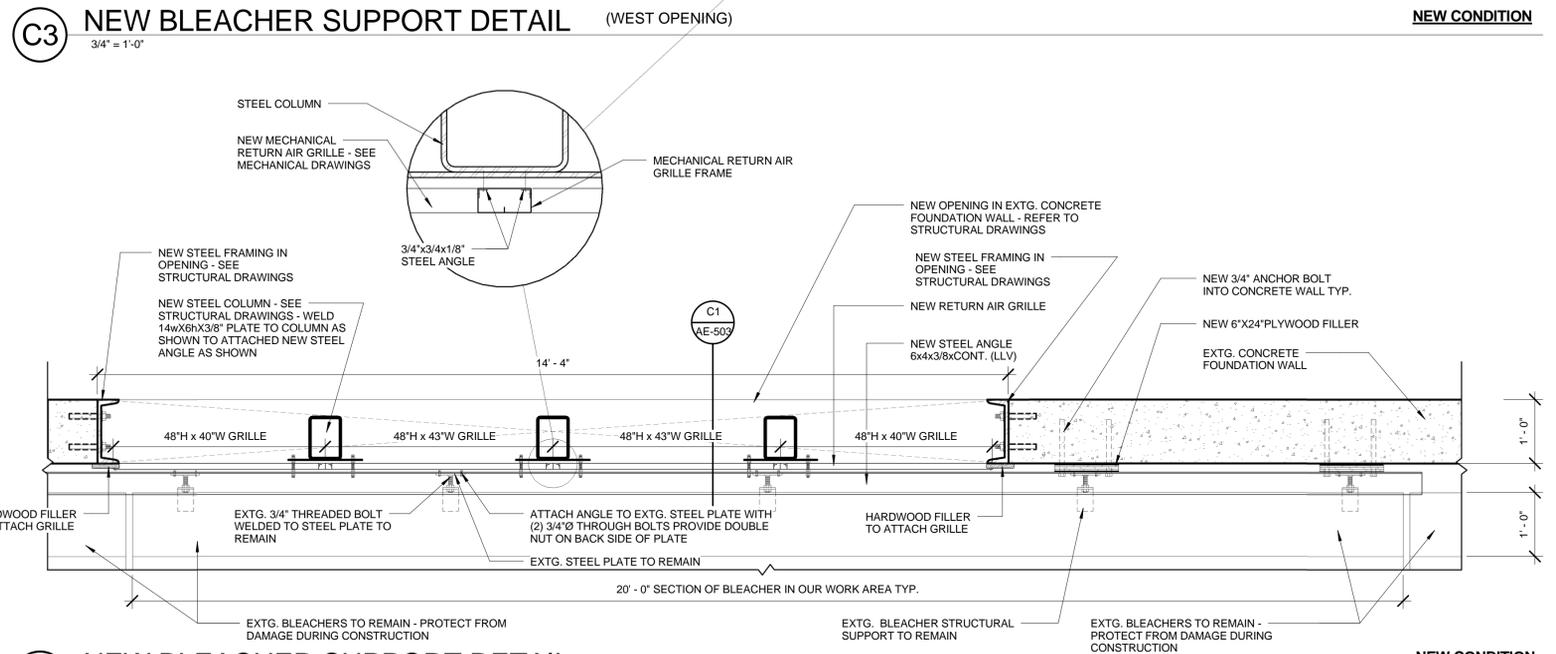
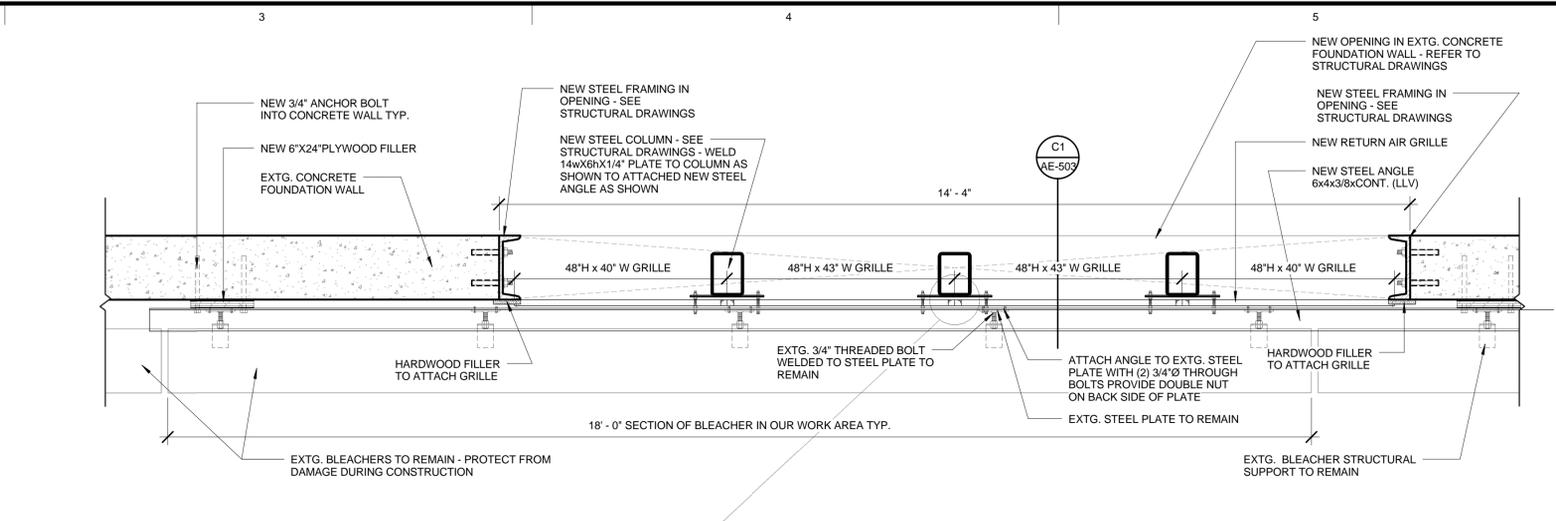
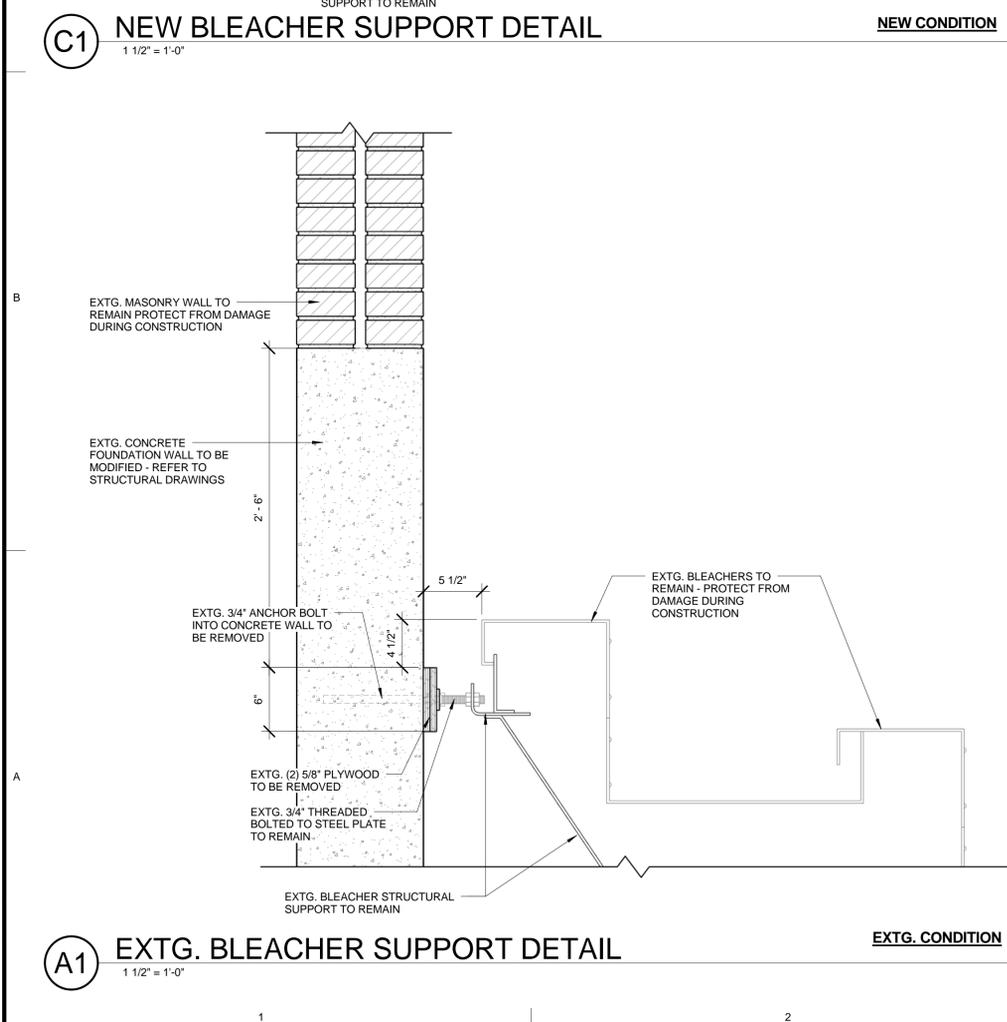
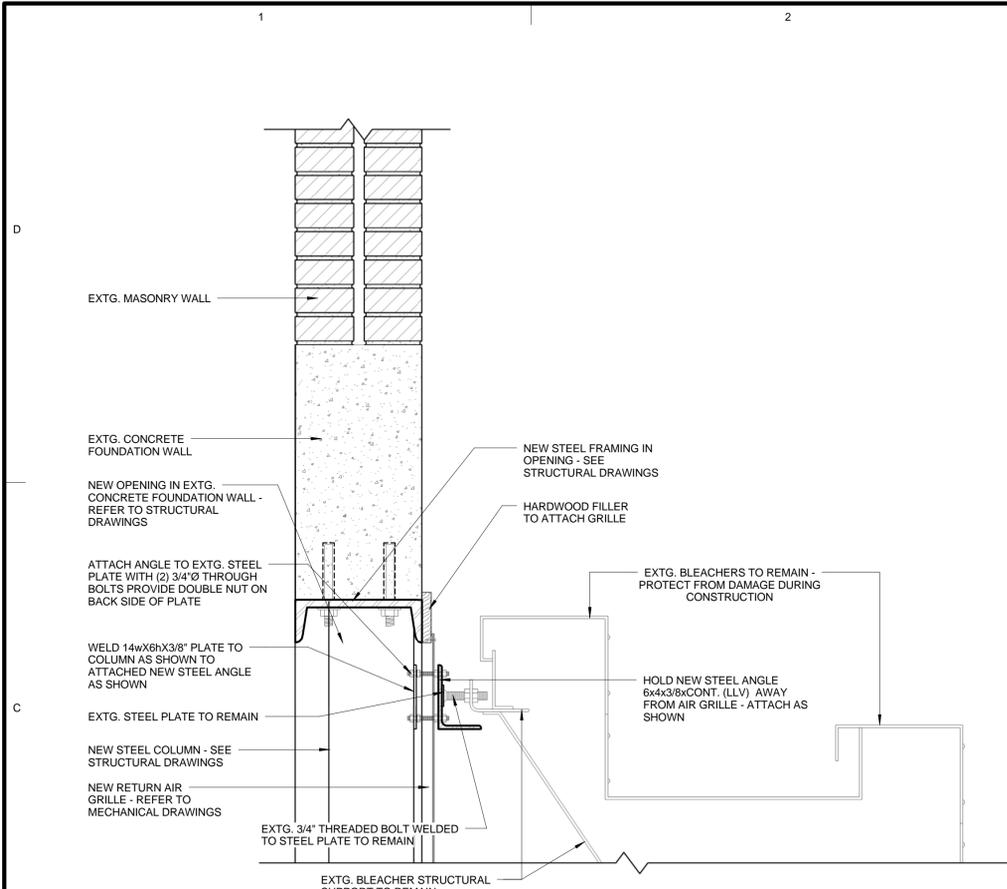
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SHEET TITLE  
**DETAILS**

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**AE-503**



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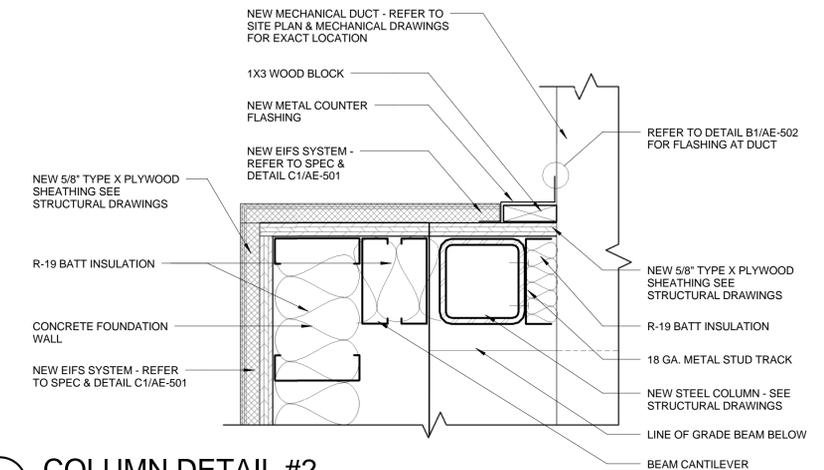
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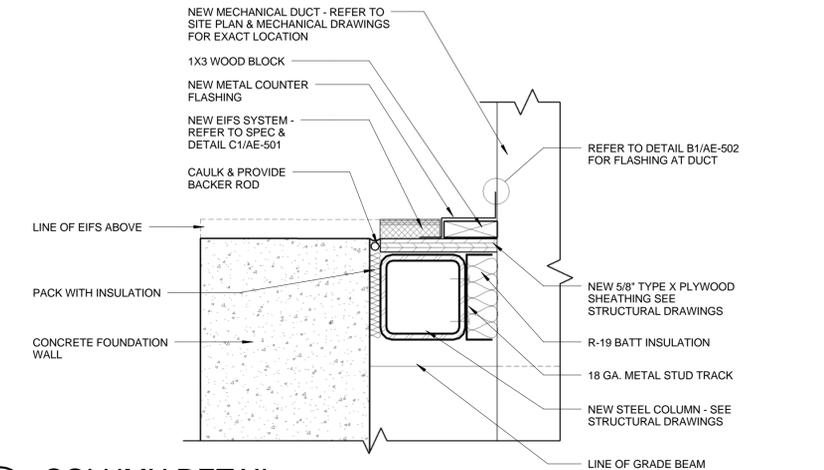
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**DETAILS**

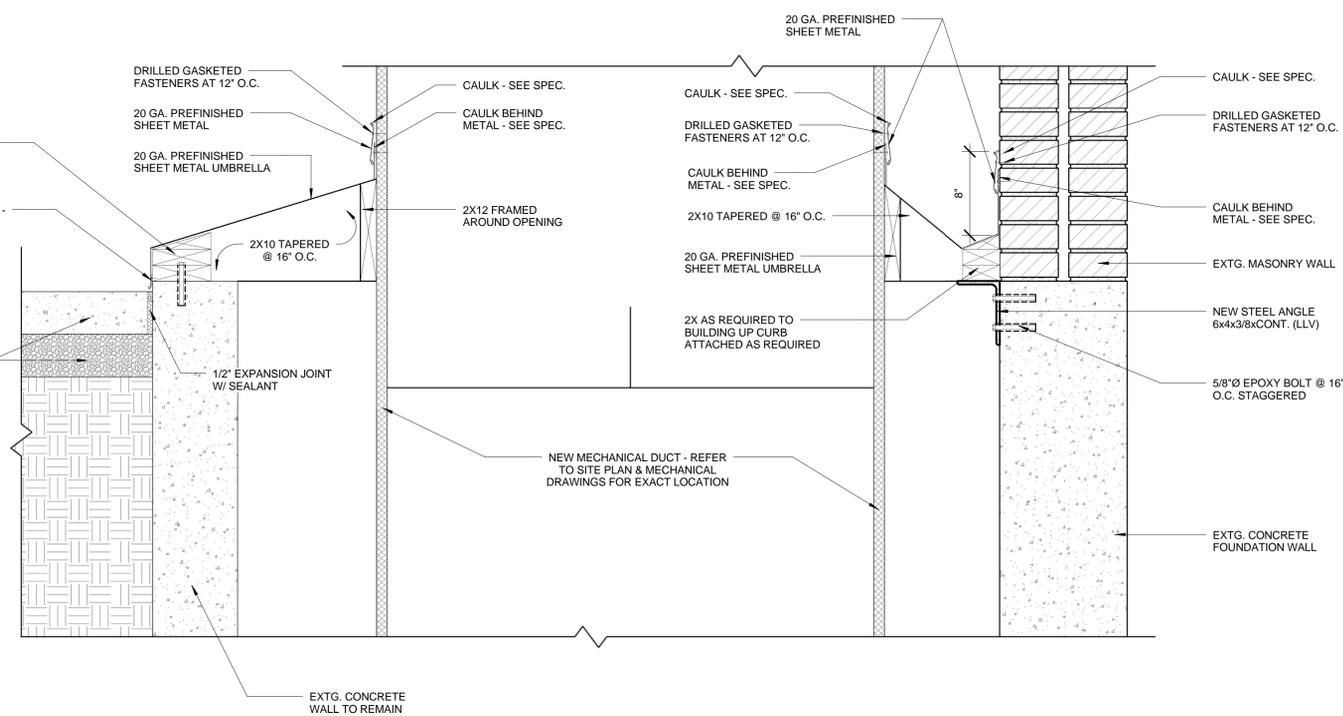
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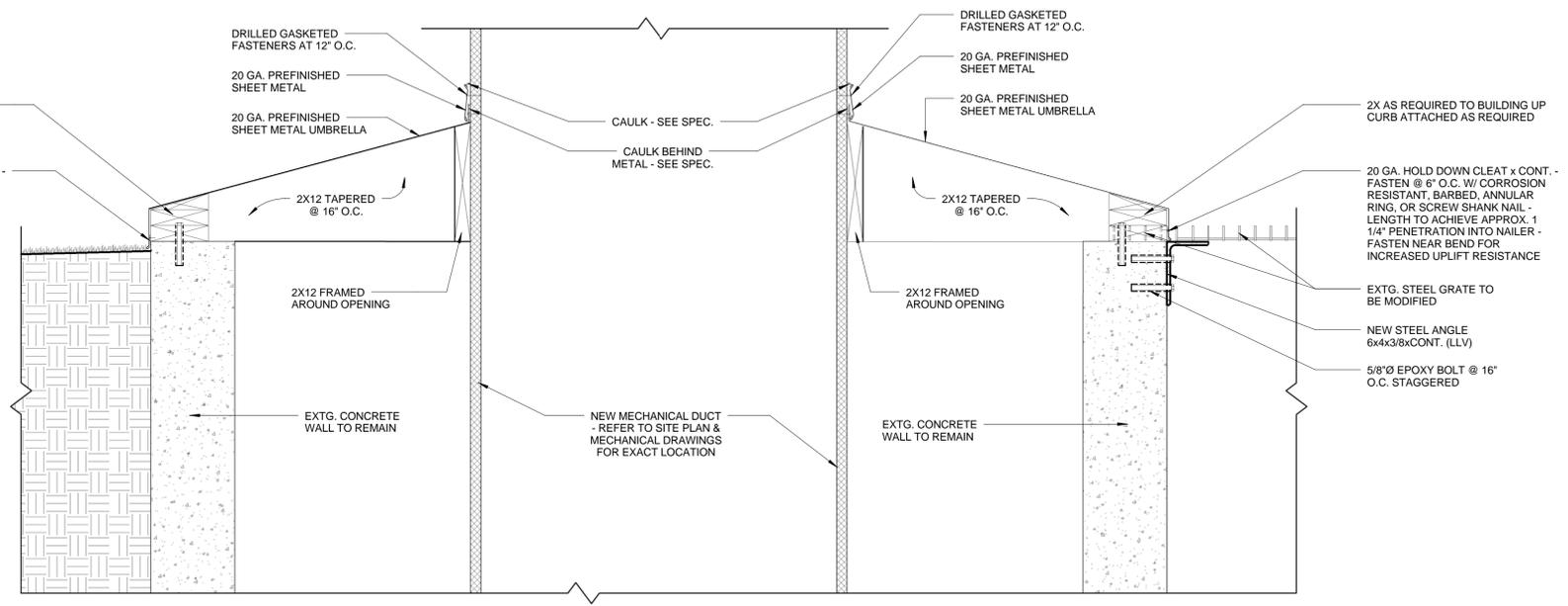
**C4 COLUMN DETAIL #2**  
 3" = 1'-0"



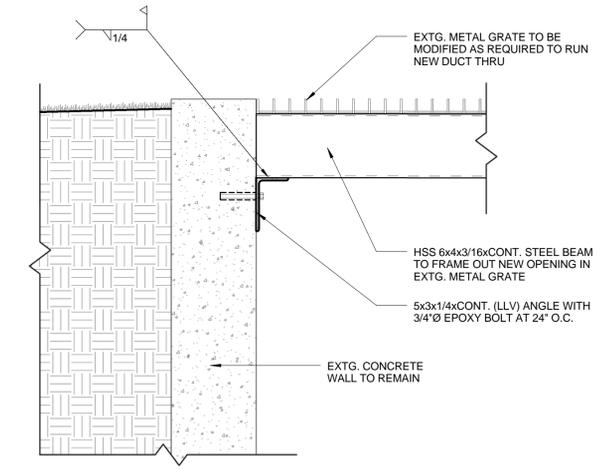
**B4 COLUMN DETAIL**  
 3" = 1'-0"



**C1 AREA #2 DUCT DETAIL**  
 1 1/2" = 1'-0"



**A1 AREA #2 DUCT DETAIL #2**  
 1 1/2" = 1'-0"



**A4 STEEL GRATE DETAIL**  
 1 1/2" = 1'-0"

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**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

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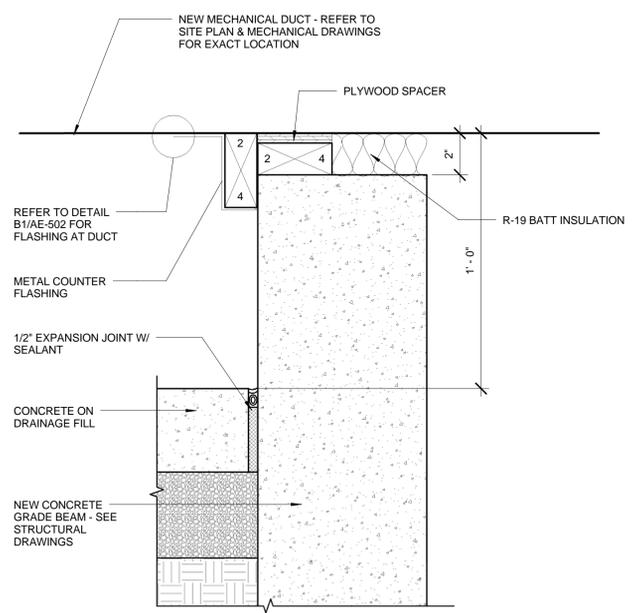
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SHEET TITLE:

**DETAILS**

SHEET NUMBER:

**AE-505**



**(A1) DUCT DETAIL**  
3" = 1'-0"

Last Plotted: 5/18/2007 5:09:46 PM

# LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

## MECHANICAL

	POSITIVE PRESSURE DUCT - RISE
	POSITIVE PRESSURE DUCT - DROP
	NEGATIVE PRESSURE DUCT - RISE
	NEGATIVE PRESSURE DUCT - DROP
	ROUND DUCT - RISE
	ROUND DUCT - DROP
	UNDER FLOOR DUCT
	TURNING VANES
	FRESH AIR LOUVER
	RELIEF AIR OR EXHAUST AIR LOUVER
	CEILING SUPPLY DIFFUSER
	CEILING RETURN REGISTER
	CEILING EXHAUST REGISTER (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
	SIDEWALL SUPPLY REGISTER
	SIDEWALL EXHAUST OR RETURN REGISTER
	CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
	CEILING AIR GRILLE WITH FLEXIBLE DUCT
	CEILING RETURN AIR GRILLE W/ SOUND BOOT
	LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	FAN
	FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	INCLINED RISE
	INCLINED DROP
	R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
	RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
	RECTANGULAR TO ROUND DUCT TRANSFORMATION
	BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
	TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
	HIGH EFFICIENCY FITTING
	MANUAL VOLUME DAMPER
	FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
	SMOKE DAMPER W/ ACCESS PANEL
	BACK DRAFT DAMPER
	ATC DAMPER
	ACCESS PANEL IN DUCT OR PLENUM
	HEATING OR COOLING COIL IN DUCT
	SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
	4-WAY BLOW PATTERN
	3-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	1-WAY BLOW PATTERN
	DUCT SMOKE DETECTOR
	UNIT HEATER

TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.

## PLUMBING

	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
	ARROW INDICATES DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
	PRESSURE REDUCING, SELF CONTAINED VALVE
	ATC VALVE - 2 WAY
	ATC VALVE - 3 WAY
	SOLENOID VALVE
	GATE VALVE
	GATE VALVE - NON RISING STEM
	GLOBE VALVE
	TEMPERATURE AND PRESSURE TEST PORT
	PRESSURE SWITCH
	LUBRICATED PLUG VALVE
	CALIBRATED BALANCING VALVE WITH GPM INDICATED
	FLOW CONTROL VALVE
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	RISE OR DROP
	RISE - DOWN (ELBOW)
	RISE - DOWN (ELBOW)
	VENT THRU ROOF
	WATER HAMMER ARRESTOR
	INLINE PUMP
	INLINE PUMP
	CLEAN-OUT
	RELIEF VALVE
	ANGLE VALVE
	FLOW METER
	UNION
	GAS COCK
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	FLEXIBLE EXPANSION JOINT
	THERMOMETER - TEMP RANGE AS INDICATED
	PRESSURE GAUGE WITH SHUT-OFF COCK
	PRESSURE GAUGE WITH PIGTAIL
	LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
	BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
	MOTOR OPERATED BUTTERFLY VALVE
	VALVE IN RISE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

## PLUMBING CONT.

	HOSE BIBB
	PIPE CAP
	SWITCH
	SENSOR
	THERMOSTAT
	NIGHT THERMOSTAT
	FILL PORT
	DRAIN PAN AND P-TRAP
	FIXTURE FROM LEVEL ABOVE
	FLOW METER ORIFICE
	FLANGE
	90° ELBOW
	45° ELBOW
	STEAM TRAP. F&T=FLOAT & THERMOSTATIC B=BUCKET, T=THERMOSTATIC
	LEADER INDICATES DOWNWARD SLOPE
	DEMOLITION
	ALIGNMENT GUIDE
	AHCHOR

## SYMBOLS

	PLUMBING FIXTURES
	POINT OF CONNECTION
	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION

## FIRE

	HOSE VALVE
	NRS GATE VALVE WITH SUPERVISION
	FLOW SWITCH
	FIRE RISER
	SPRINKLER HEAD
	FIRE SPRINKLER WATER

## LINETYPES

	ACID VENT
	ACID WASTE
	BOILER BLOW DOWN
	BOILER FEED WATER
	BRINE
	CARBON DIOXIDE
	COMPRESSED AIR
	CHEMICAL FEED
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHW-R)
	DEIONIZED WATER SUPPLY
	DEIONIZED WATER RETURN
	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED
	GLYCOL HEAT RECOVERY PIPING
	GLYCOL PIPING SOLUTION
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FUEL OIL VENT
	NATURAL GAS
	HOT GAS
	HELICOPTER FUEL RETURN
	HELICOPTER FUEL SUPPLY
	HIGH PRESSURE DOMESTIC WATER
	HIGH PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	INSTRUMENT AIR
	INSTRUMENT AIR AT PRESSURE INDICATED
	LAB AIR
	LAB VACUUM
	LOW PRESSURE CONDENSATE
	LIQUIFIED PETROLEUM GAS
	LOW PRESSURE STEAM
	MEDICAL AIR
	MEDICAL AIR AT PRESSURE INDICATED
	MEDIUM PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM
	MAKE UP WATER
	MEDICAL VACUUM
	NITROGEN
	NITROUS OXIDE
	MEDICAL OXYGEN
	MEDICAL OXYGEN AT PRESSURE INDICATED
	PUMPED CONDENSATE

## LINETYPES CONT.

	REVERSE OSMOSIS WATER SUPPLY
	REVERSE OSMOSIS WATER RETURN
	ROOF DRAIN
	ROOF DRAIN OVERFLOW
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
	SOFT DOMESTIC WATER (SW)
	VACUUM
	VENT (SEWER)

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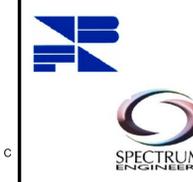


**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



PROJECT NAME:

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BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84501

REVISIONS:

NO. DATE DESCRIPTION

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1 5.17.07 CONSTRUCTION DOCUMENTS

DFCM PROJECT #: 06162610

SPE PROJECT #: 06-35

DRAWN BY: Etlvarez

CHECKED BY: Rreeder

DESIGNED BY: Jbrowning

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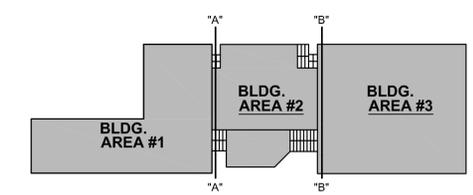
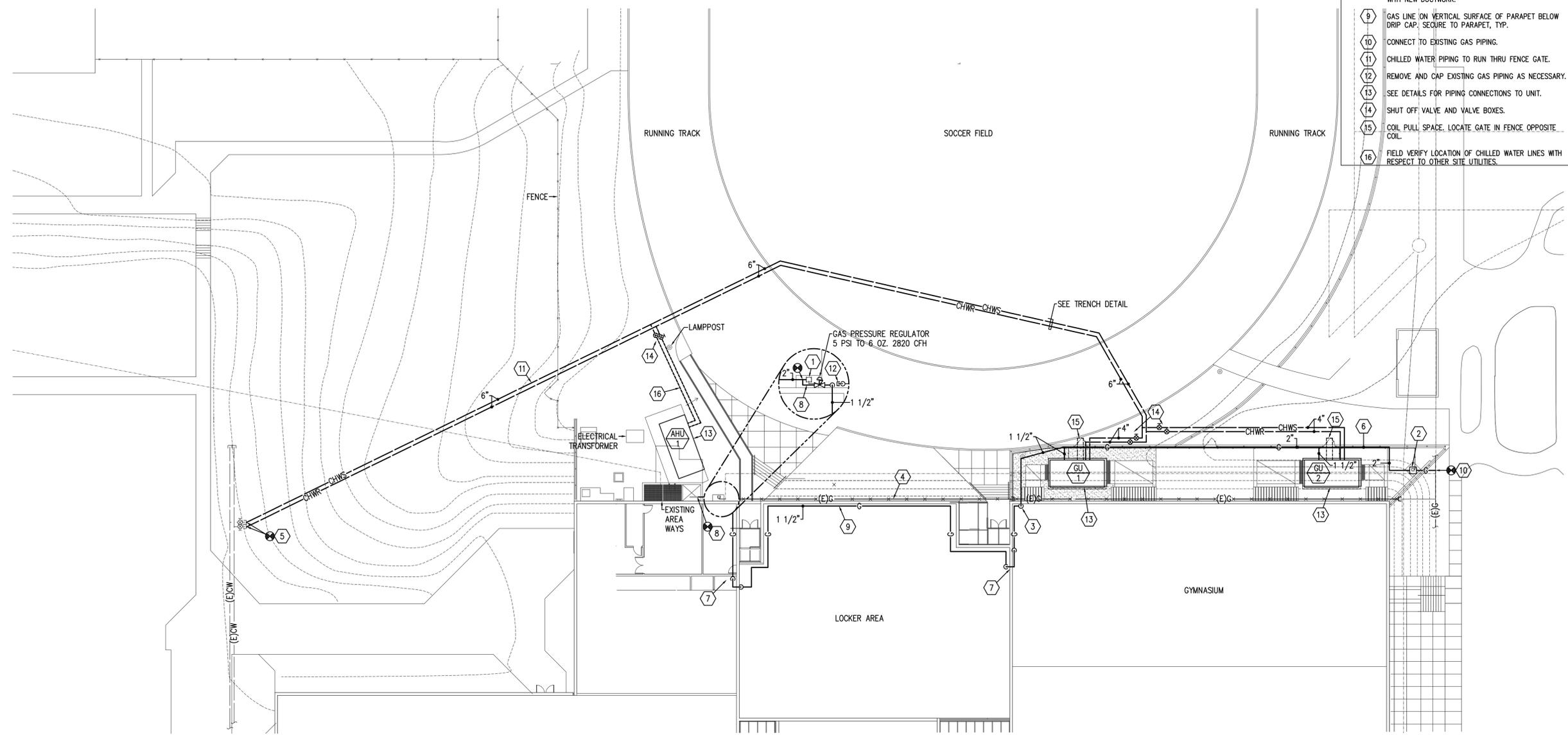
**LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS**

SHEET NUMBER:

**M-001**

**KEYED NOTES**

- ① REMOVE EXISTING GAS METER.
- ② NEW GAS METER, 5 PSIG, TOTAL CONNECTED GAS 6730 CFH.
- ③ GAS LINE TO PUNCH THRU WALL INTO GYMNASIUM. GAS LINE TO RISE TO ROOF AND PUNCH THRU ROOF AND RUN ALONG PARAPET.
- ④ ABANDON EXISTING GAS LINE. FIELD VERIFY EXACT LOCATION. CAP ABANDONED SECTIONS, DEMO IF NECESSARY DURING CONSTRUCTION.
- ⑤ FIELD VERIFY LOCATIONS OF CHILLED WATER SUPPLY AND RETURN PIPING CONNECTIONS.
- ⑥ RUN 2" GAS LINE ALONG FENCE.
- ⑦ PROVIDE EXPANSION ELBOWS FOR GAS LINE WHEN IT CROSSES BUILDING EXPANSION JOINT.
- ⑧ REROUTE GAS PIPING THRU EXISTING AREAWAY AND CONNECT TO EXISTING GAS PIPING. COORDINATE ROUTING WITH NEW DUCTWORK.
- ⑨ GAS LINE ON VERTICAL SURFACE OF PARAPET BELOW DRIP CAP. SECURE TO PARAPET, TYP.
- ⑩ CONNECT TO EXISTING GAS PIPING.
- ⑪ CHILLED WATER PIPING TO RUN THRU FENCE GATE.
- ⑫ REMOVE AND CAP EXISTING GAS PIPING AS NECESSARY.
- ⑬ SEE DETAILS FOR PIPING CONNECTIONS TO UNIT.
- ⑭ SHUT OFF VALVE AND VALVE BOXES.
- ⑮ COIL PULL SPACE. LOCATE GATE IN FENCE OPPOSITE COIL.
- ⑯ FIELD VERIFY LOCATION OF CHILLED WATER LINES WITH RESPECT TO OTHER SITE UTILITIES.



**A1 MECHANICAL SITE PLAN**  
1" = 20'-0"

**A5 KEYPLAN**  
1" = 80'-0"

ARCHITECT'S INFORMATION:



**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



**SPECTRUM ENGINEERS**

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BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
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PRICE, UTAH 84501

REVISIONS:

NO.	DATE	DESCRIPTION
1	5.17.07	CONSTRUCTION DOCUMENTS

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DRAWN BY:	Eltuarez
CHECKED BY:	Rreeder
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SHEET TITLE:

**MECHANICAL  
SITE PLAN**

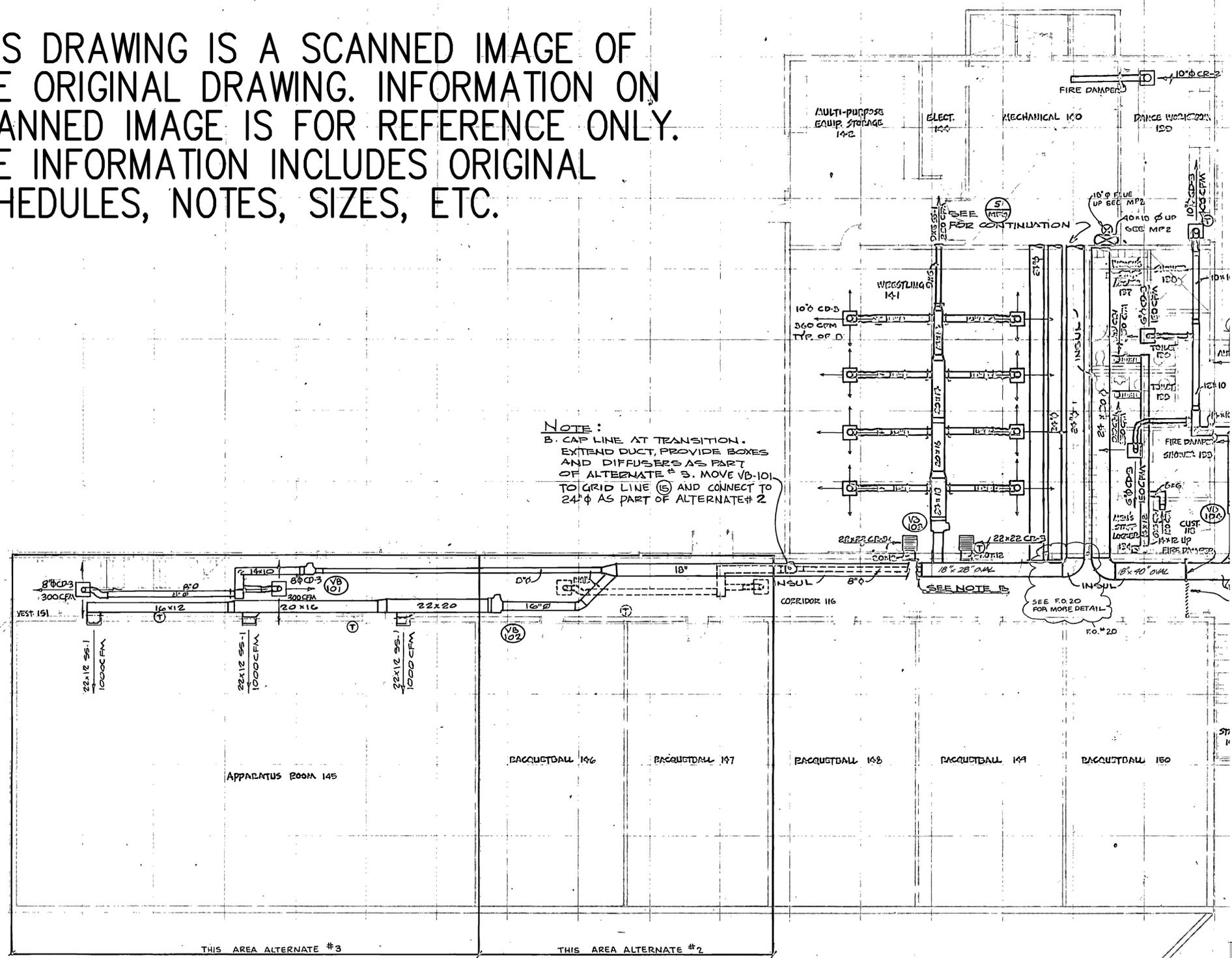
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**MS-1**

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**GENERAL NOTES**

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3. CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.
4. RECOMMISSION ALL VAV BOXES (SHOWN AS "VB" ON PLAN) AND RECALIBRATE SETTINGS.
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**NOTE:**  
 B. CAP LINE AT TRANSITION. EXTEND DUCT, PROVIDE BOXES AND DIFFUSERS AS PART OF ALTERNATE # 3. MOVE VB-101 TO GRID LINE (C) AND CONNECT TO 24" φ AS PART OF ALTERNATE # 2



**A1** LEVEL #1 AREA #1 MECHANICAL PLAN  
 1/8" = 1'-0"

**A5** KEYPLAN  
 1" = 80'-0"



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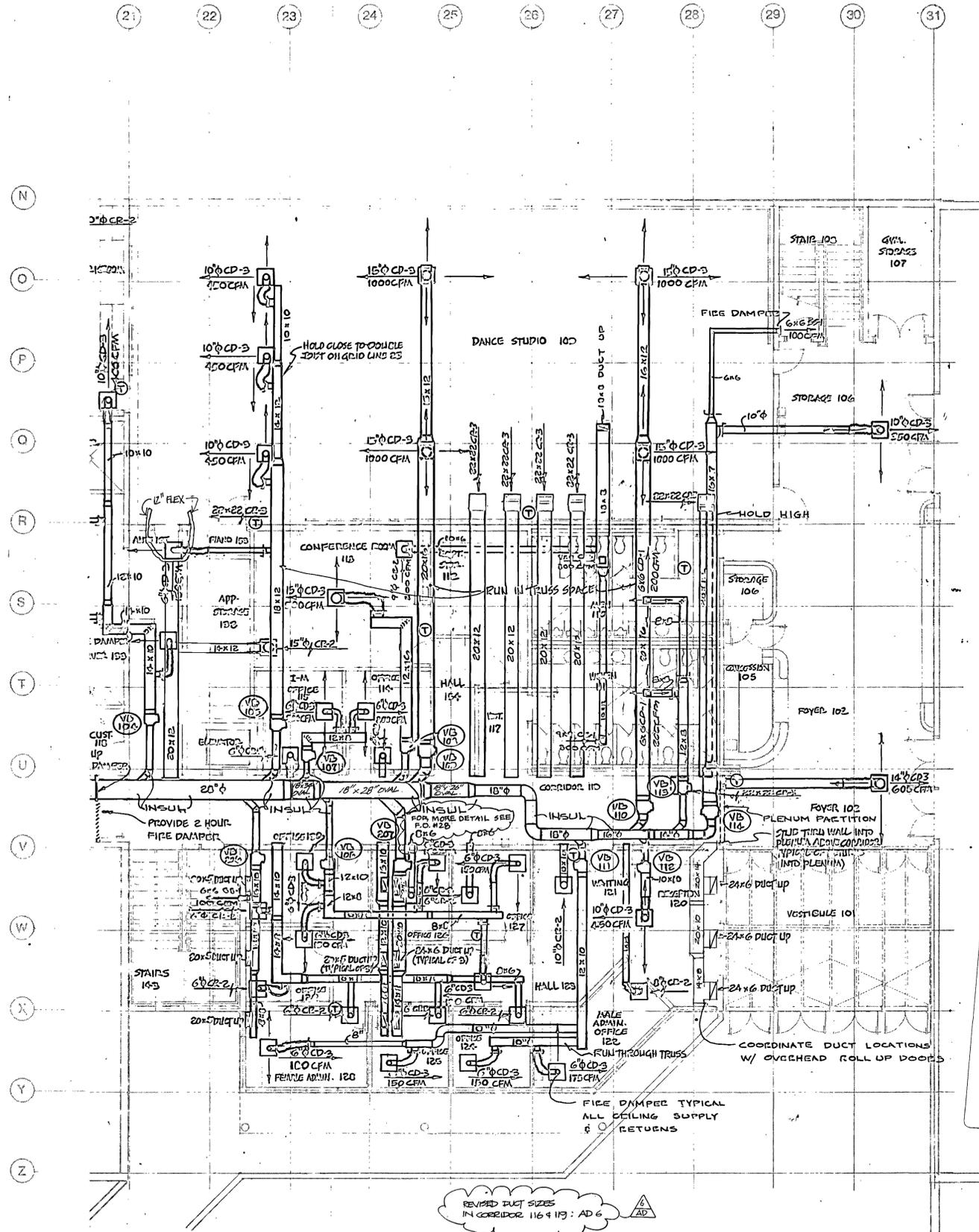
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**LEVEL #1  
 AREA #1  
 MECHANICAL  
 DEMOLITION PLAN**

SHEET NUMBER:  
**MP-1.1**

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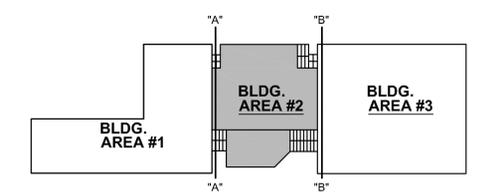
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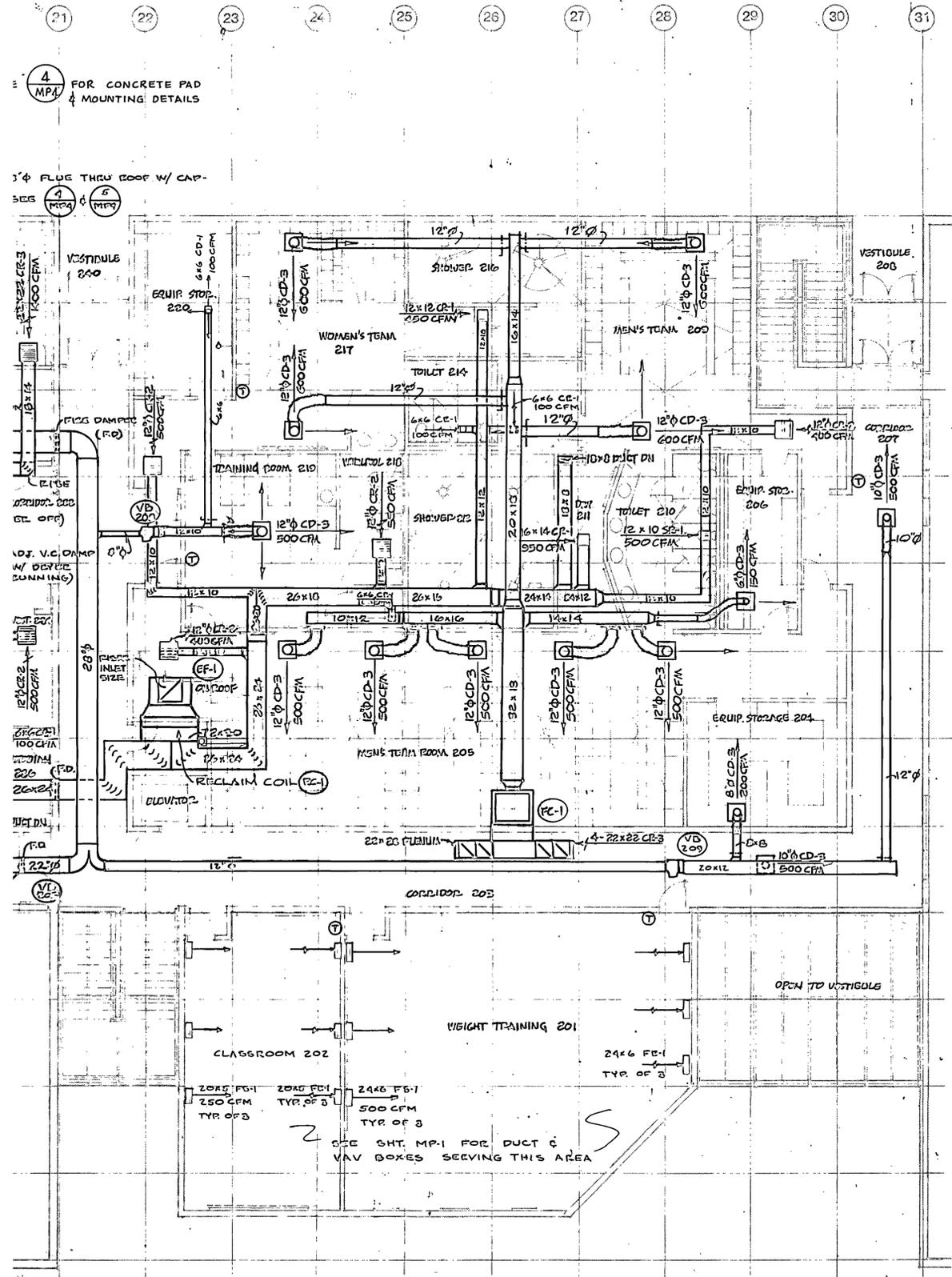
A1 LEVEL #1 AREA #2 MECHANICAL PLAN  
1/8" = 1'-0"

A5 KEYPLAN  
1" = 80'-0"

MP-1.1



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- RENOVATE FC-1. PROVIDE NEW MOTORS, BELTS, COILS, ETC., TO MAKE UNIT OPERATIONAL. SEE SPECIFICATIONS.
- REBALANCE FAN COIL UNIT AND ASSOCIATED EXHAUST FAN SYSTEMS.
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ARCHITECT &  
ASSOCIATES P.C.**

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info@spe-architect.com  
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SHEET TITLE:

**LEVEL #2  
AREA #2  
MECHANICAL  
DEMOLITION PLAN**

SHEET NUMBER:

**MP-2.1**

**A1** LEVEL #2 AREA #2 MECHANICAL PLAN  
1/16" = 1'-0"

**A5** KEYPLAN  
1" = 80'-0"



Last Plotted:



SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
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LEVEL #1 AREA #3  
MECHANICAL  
PLAN

SHEET NUMBER:

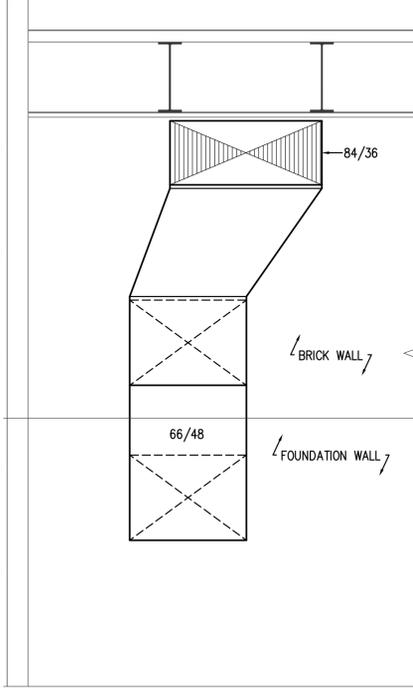
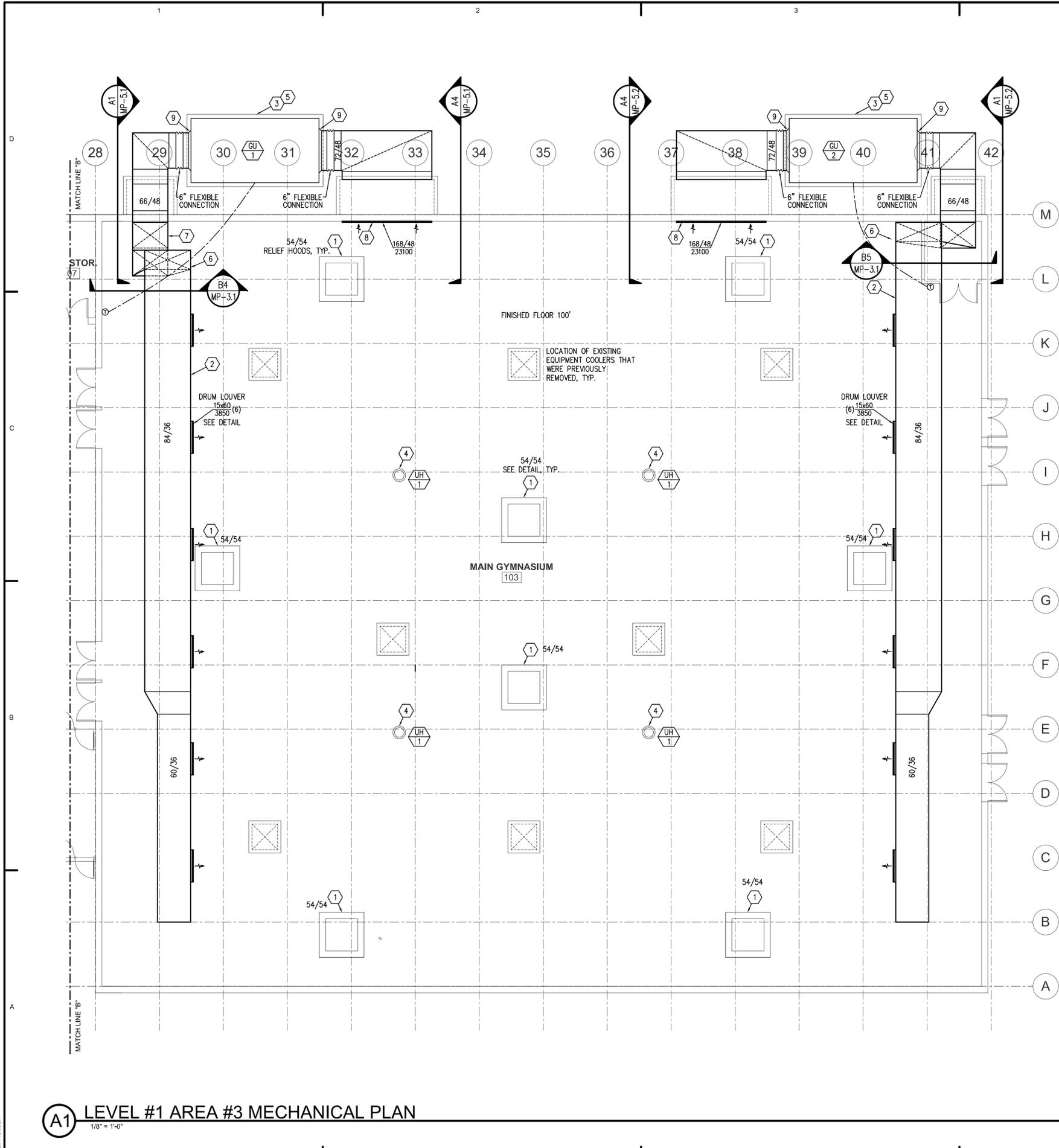
MP-3.1

### GENERAL NOTES

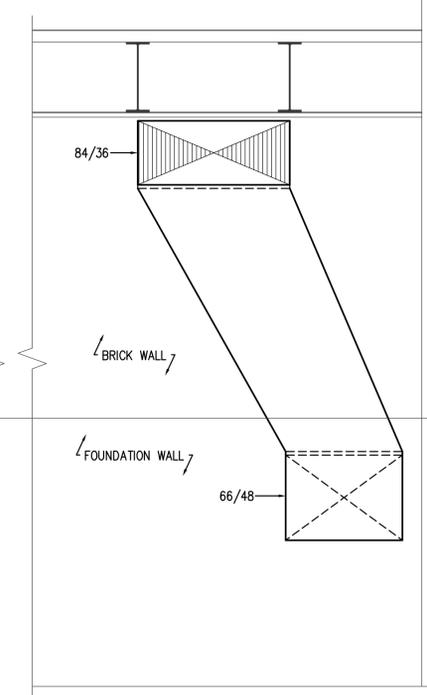
1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
2. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEER'S ATTENTION.
3. CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.

### KEYED NOTES

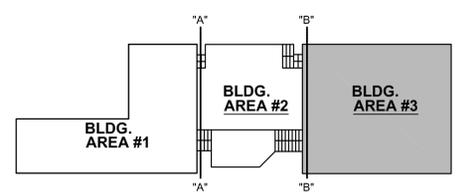
1. INSTALL NEW ATC DAMPERS ON RELIEF HOODS. FIELD VERIFY EXACT SIZE AND INSTALLATION REQUIREMENTS.
2. RUN DUCT AT BOTTOM OF STRUCTURE.
3. HOUSEKEEPING CONCRETE PAD. SEE ARCHITECTURAL AND STRUCTURAL DETAILS.
4. REPLACE WITH NEW UNIT HEATER AS ALTERNATE #1. DISCONNECT EXISTING UNIT HEATER FROM PIPING. RECONNECT NEW UNIT HEATER, MODIFYING THE PIPING AS NECESSARY. EXISTING VALVES AND CONTROLS TO REMAIN IN PLACE.
5. SEE MECHANICAL SITE PLAN FOR PIPING TO UNITS.
6. TRANSITION TO 84/36 IN RISE.
7. RISE TO BOTTOM OF CATWALK.
8. GRILLE TO BE DIVIDED INTO FOUR EQUAL WIDTHS. SEE ARCHITECTURAL PLANS FOR EXACT WIDTH.
9. BELL MOUTH CONNECTION TO UNIT.



B4 DUCT SECTION  
1/4" = 1'-0"



B5 DUCT SECTION  
1/4" = 1'-0"



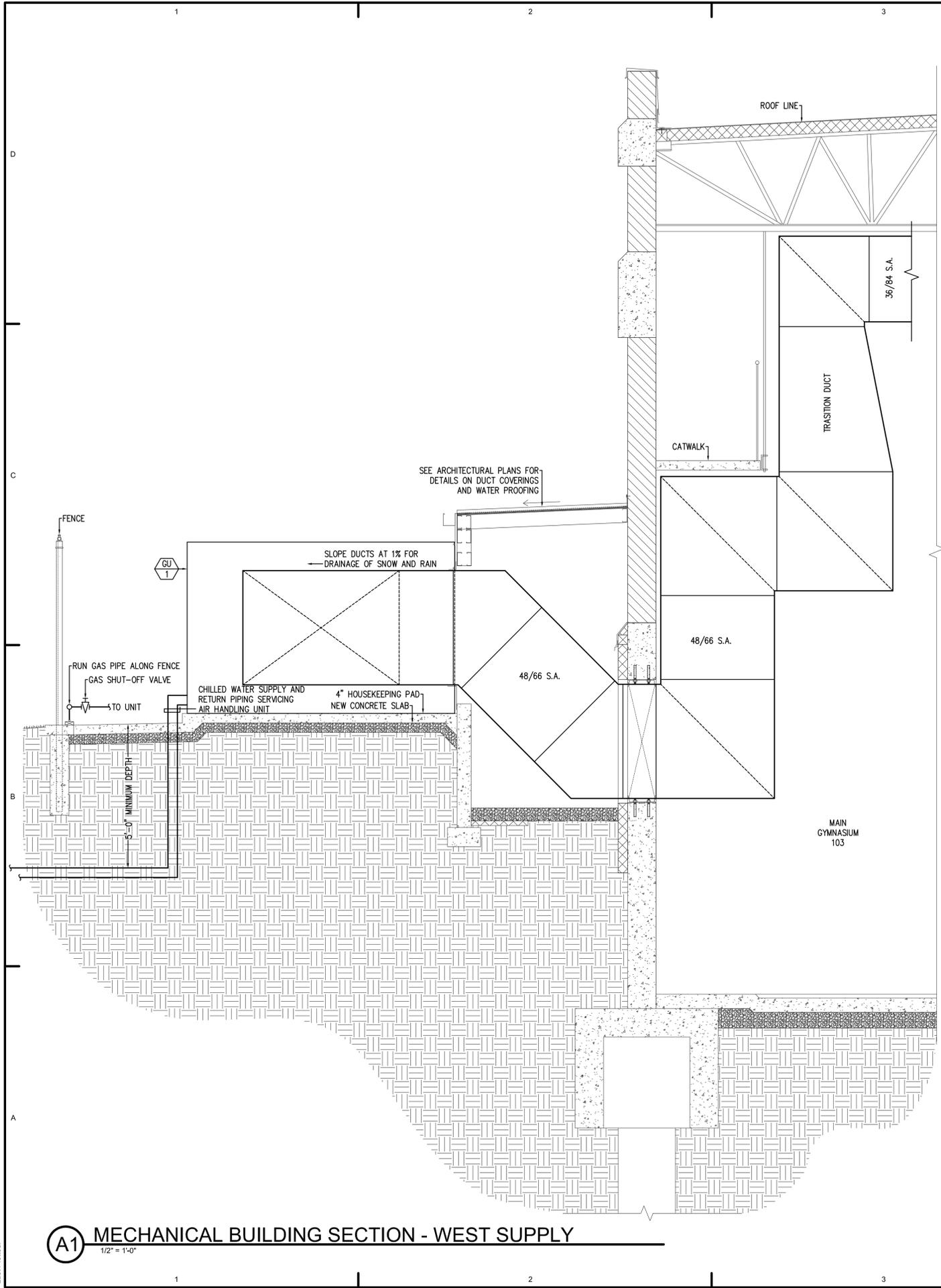
A5 KEYPLAN  
1" = 80'-0"

A1 LEVEL #1 AREA #3 MECHANICAL PLAN  
1/8" = 1'-0"

Last Plotted:



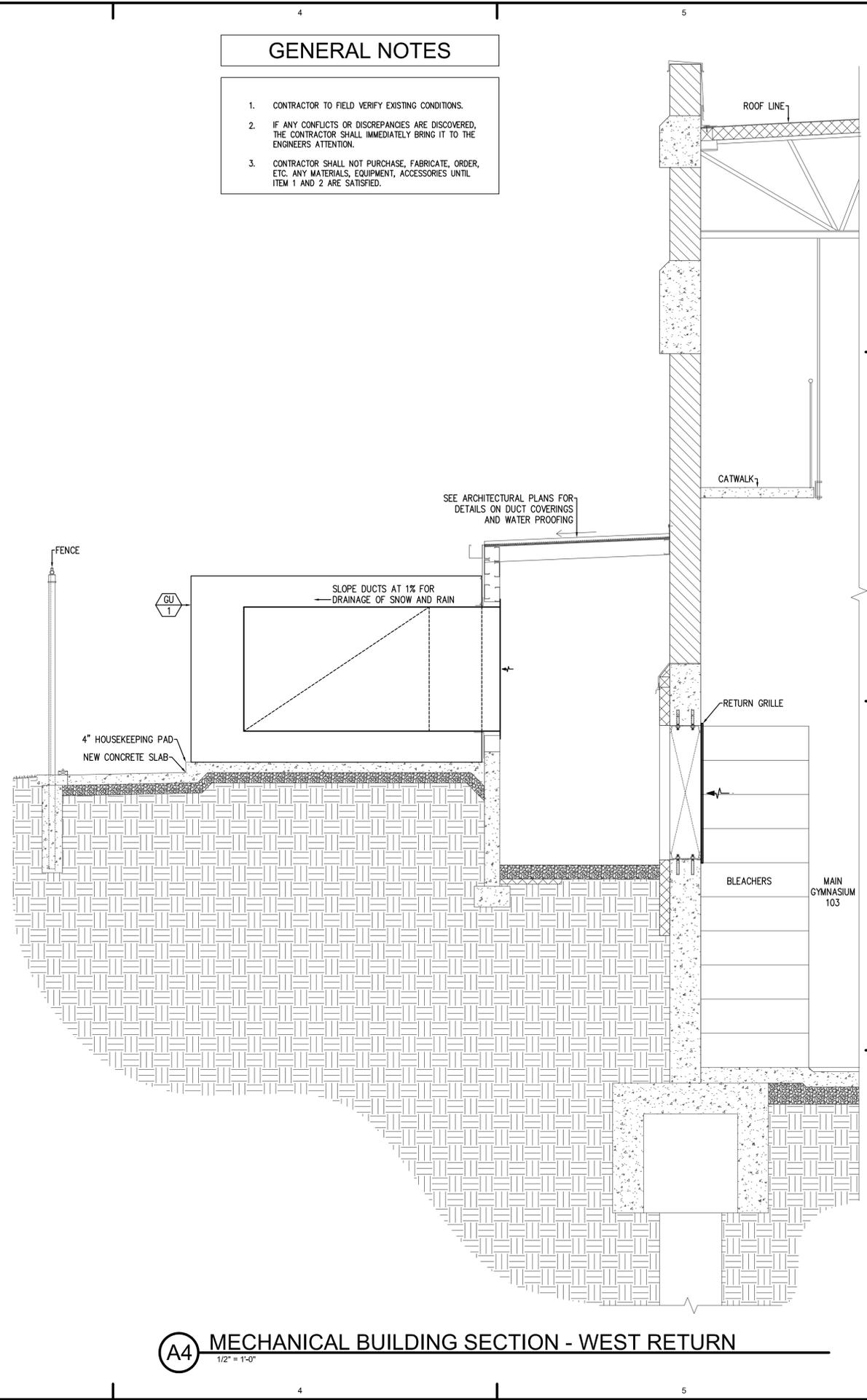




**A1** MECHANICAL BUILDING SECTION - WEST SUPPLY  
1/2" = 1'-0"

**GENERAL NOTES**

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
2. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEERS ATTENTION.
3. CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.



**A4** MECHANICAL BUILDING SECTION - WEST RETURN  
1/2" = 1'-0"

ARCHITECT'S INFORMATION:



**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



SPECTRUM ENGINEERS

PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84501

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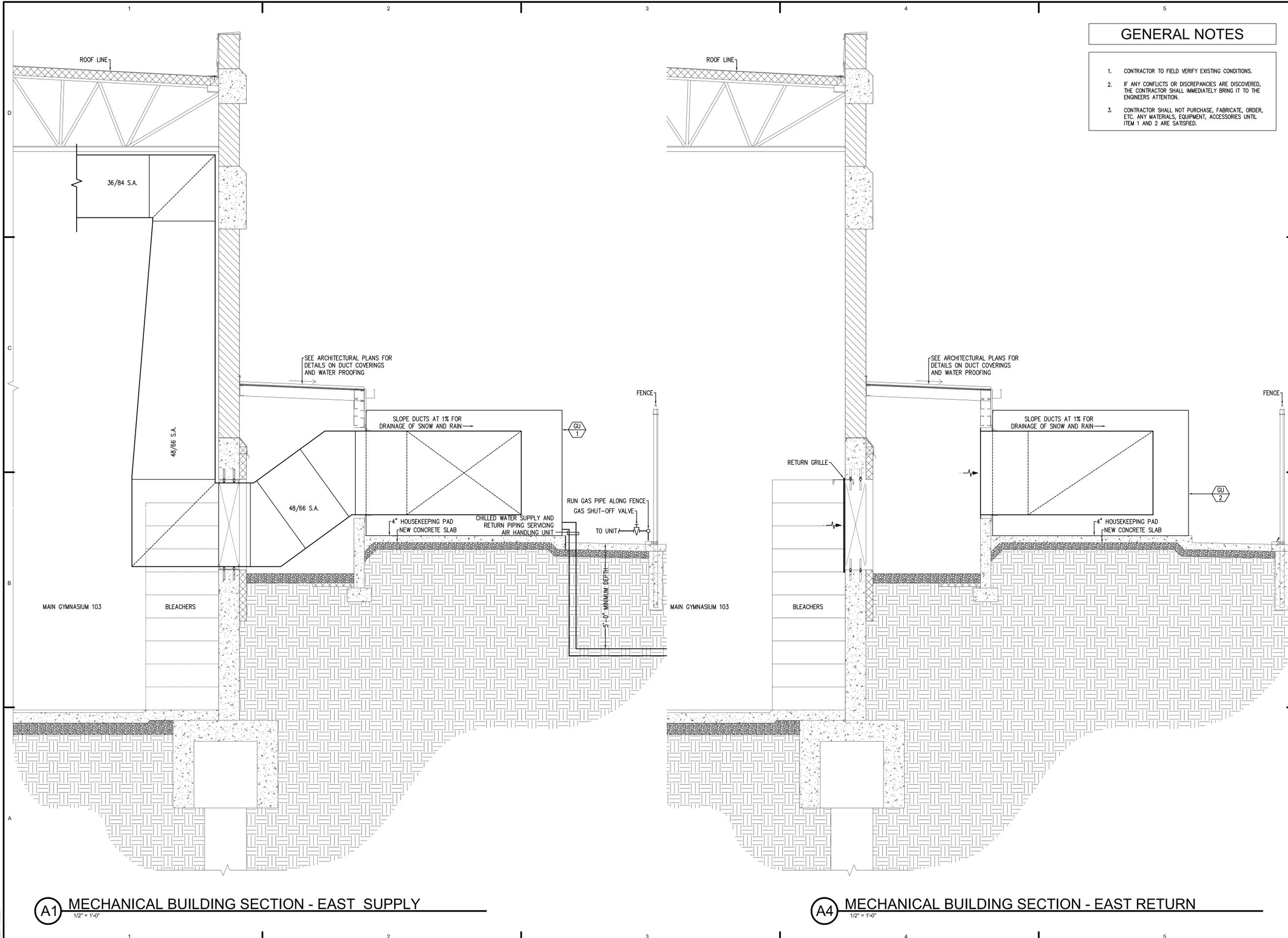
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DFCM PROJECT #: 06162610  
SPE PROJECT #: 06-35  
DRAWN BY: Elvarex  
CHECKED BY: Rreeder  
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SHEET TITLE:  
**MECHANICAL BUILDING SECTIONS**

SHEET NUMBER:  
**MP-5.1**



**GENERAL NOTES**

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 Bountiful, Utah 84010  
 Telephone - 801.298.1368  
 Telefax - 801.298.2192  
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 HVAC UPGRADE**  
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SHEET TITLE:  
**MECHANICAL BUILDING SECTIONS**

SHEET NUMBER:  
**MP-5.2**

**A1 MECHANICAL BUILDING SECTION - EAST SUPPLY**  
 1/2" = 1'-0"

**A4 MECHANICAL BUILDING SECTION - EAST RETURN**  
 1/2" = 1'-0"

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ARCHITECT'S INFORMATION:



**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:



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BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84501

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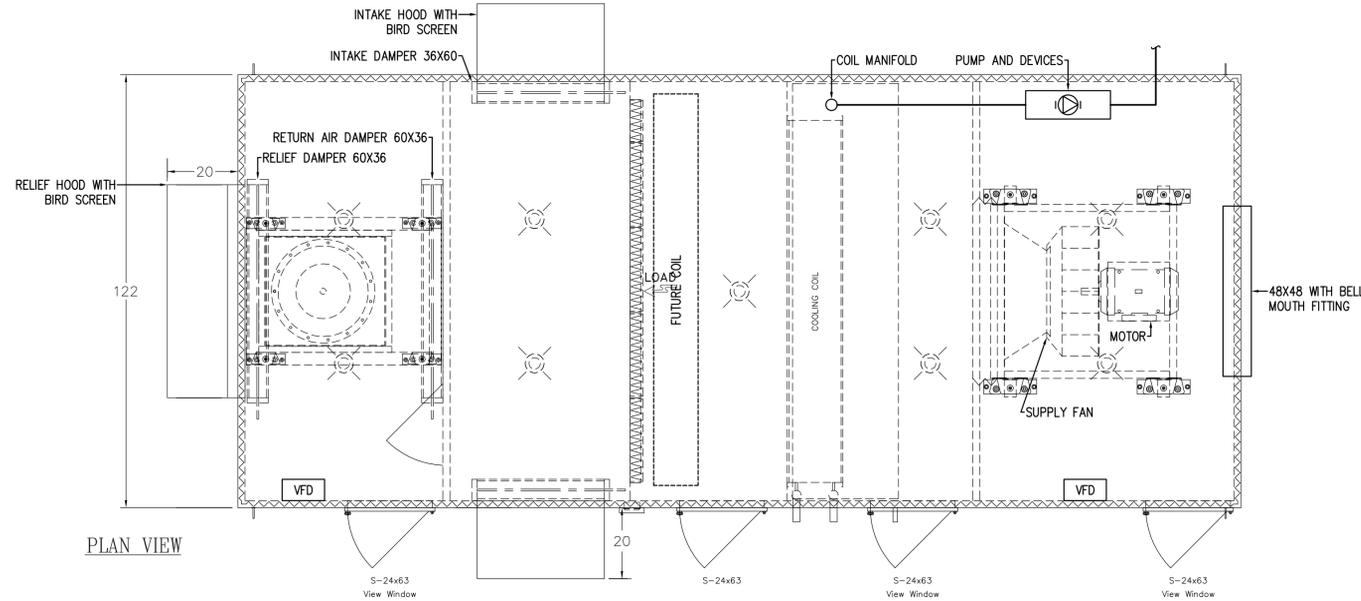
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SHEET TITLE:

**MECHANICAL  
DETAILS**

SHEET NUMBER:

**MP-6.1**

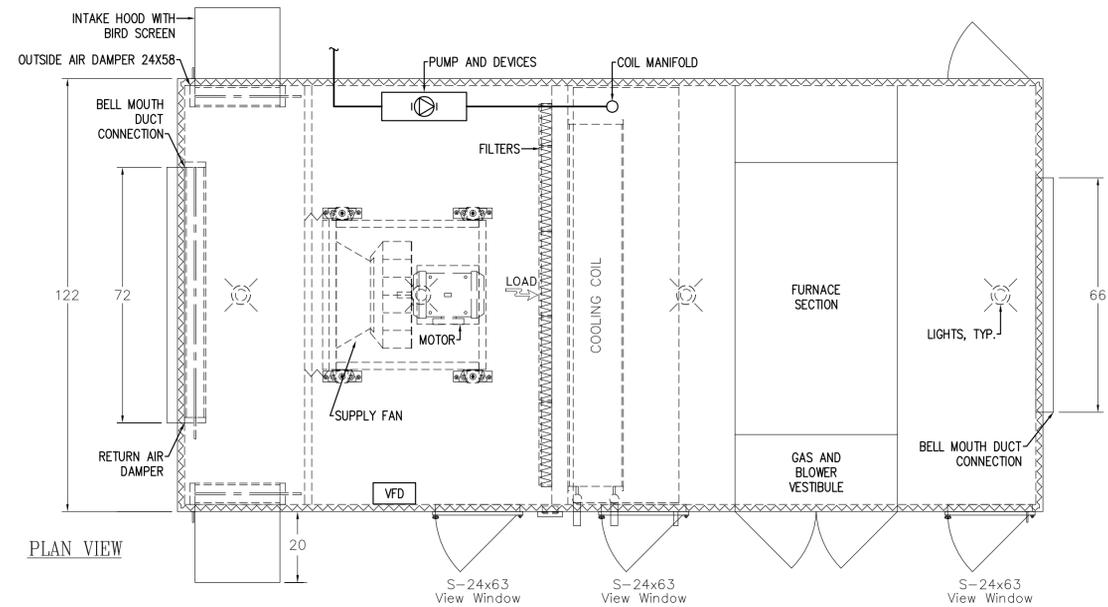


PLAN VIEW

SIDE VIEW

AHU-1

NO SCALE



PLAN VIEW

SIDE VIEW

GU-1,2

NO SCALE



**SCOTT P. EVANS  
ARCHITECT &  
ASSOCIATES P.C.**

108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
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SHEET TITLE:

**SCHEDULES**

SHEET NUMBER:

**MP-7.1**

**AIR HANDLER SCHEDULE**

ID	MANUFACTURER	AIR						ELECTRICAL		PHYSICAL	
		SUPPLY AIRFLOW (CFM)	FANS	COILS	FURNACE	PUMP	FILTER	SINGLE POINT VOLT/PH/Hz	WEIGHT (LB)	NOTES	
GU-1	Energy Labs	23000	SF-1	CC-1	F-1	P-1	(8)24X24X4" (6)12X24X4"	460/3	11000		
GU-2	Energy Labs	23000	SF-2	CC-2	F-2	P-2	(8)24X24X4" (6)12X24X4"	460/3	11000		
AHU-1	Energy Labs	24000	SF-3, RF-3	CC-3	N/A	P-3	(8)24X24X4" (6)12X24X4"	460/3	14000		

**FAN SCHEDULE**

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR		FAN				ELECTRICAL			NOTES
				MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. WATER)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/Hz		
SF-1	ENERGY LABS	GU-1	PLENUM	23000	3.5	1780	30	20	19.28	1800	460/3		
SF-2	ENERGY LABS	GU-2	PLENUM	23000	3.5	1780	30	20	19.28	1800	460/3		
SF-3	ENERGY LABS	AHU-1	PLENUM	24000	4.5	1284	36.5	25	24.01	1800	460/3		
RF-3	ENERGY LABS	AHU-1	PLENUM	15000	1.5	1898	24.5	10	8	1800	460/3		

**COIL SCHEDULE**

ID	MANUFACTURER	LOCATION	USAGE	AIR			FLUID			PHYSICAL					NOTES		
				AIRFLOW RATE (CFM)	TOTAL LOAD (MBH)	SENSIBLE LOAD (MBH)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. WATER)	FLOW RATE (GPM)	ENTERING/LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	NO. COILS		EACH COIL FIN WIDTH/HEIGHT (IN)	MINIMUM WATER VELOCITY
CC-1	ENERGY LABS	GU-1	COOLING	23000	564	564	83/60	54	1	113	48/63	40% Glyc	23	2	102/30	3.00	10/12
CC-2	ENERGY LABS	GU-2	COOLING	23000	564	564	83/60	54	1	113	48/63	40% Glyc	23	2	102/30	3.00	10/12
CC-3	ENERGY LABS	AHU-1	COOLING	24000	580	580	83/60	54.34	1	116	48/63	40% Glyc	23	2	102/31.5	3.00	10/12

**GAS FIRED FURNACE SCHEDULE**

ID	MANUFACTURER AND MODEL NUMBER	INPUT LOAD (MBH)	OUTPUT LOAD (MBH)	AIRFLOW RATE (CFM)	PRESSURE DROP (IN H2O)	MAX UNIT AMPERS	ELECTRICAL	
							VOLT/PH	NOTES
F-1	WEATHER RITE / HE 1500	1,565	1,000	15000	0.75	10	120/1	1,2
F-2	WEATHER RITE / HE 1500	1,565	1,000	15000	0.75	10	120/1	1,2,3

- CFM AT 65% OF TOTAL UNIT CFM
- CAPACITIES AT JOB SITE ELEVATION

**PUMP SCHEDULE**

ID	MANUFACTURER AND SERIES	MODEL	SERVICE	FLUID		PUMP			ELECTRICAL				NOTES
				FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT OF )	EFFICIENCY (%)	TYPE	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/Hz	
P-1	ARMSTONG 4380	2X2X8	GU-1	113	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1
P-2	ARMSTONG 4380	2X2X8	GU-2	113	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1
P-3	ARMSTONG 4380	2X2X8	AHU-1	116	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1

- POWER FROM AIR HANDLING UNIT

**UNIT HEATER SCHEDULE**

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USE TYPE	AIR		FLUID		ELECTRICAL			NOTES
					AIRFLOW RATE (CFM)	LOAD (BTU/H)	FLOW RATE (GPM)	ENTERING/LEAVING TEMP. (°F)	WORKING FLUID	MOTOR SIZE (HP)	VOLT/PH/Hz	
UH-1	MODINE V/VN-247	Gymnasium	HW	HEATING	4800	188,700	8	200	Water	0.5	208/3/60 (1)	New Unit Heater To Replace Existing

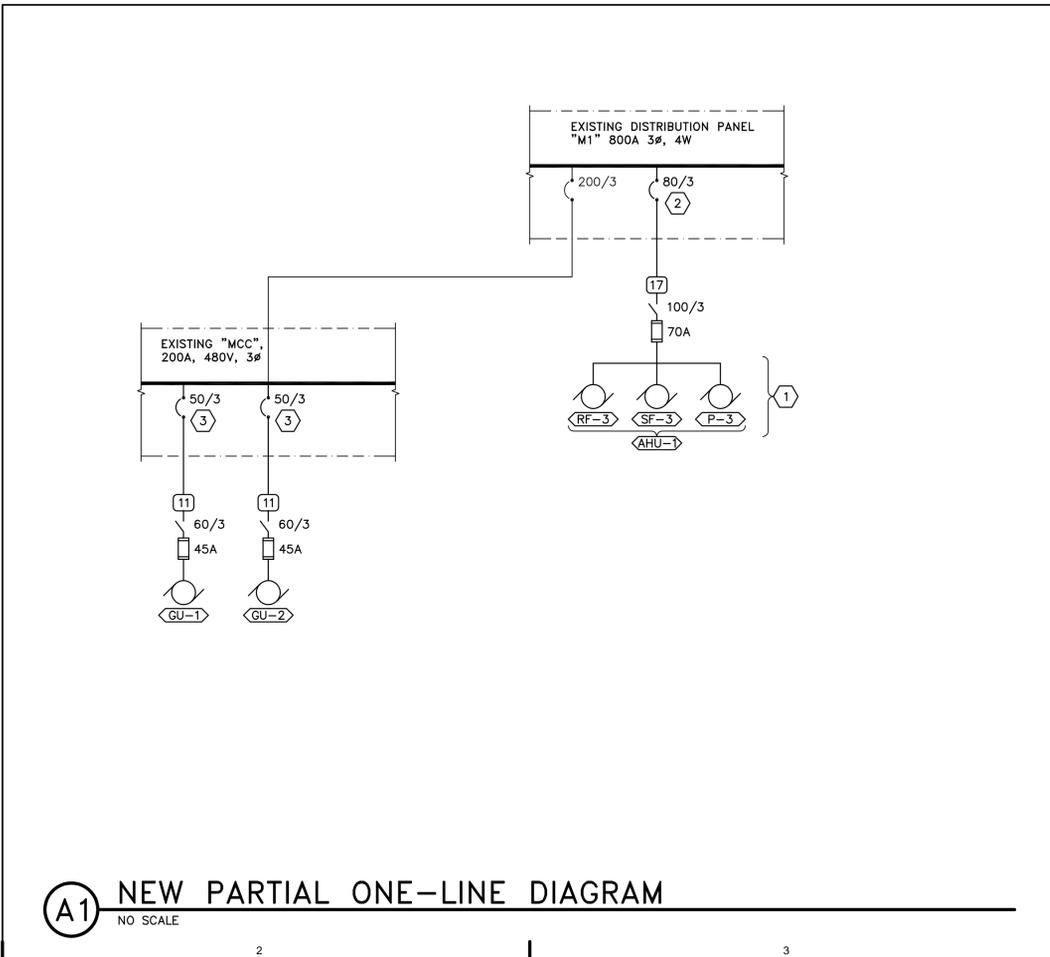
- Provide a 115/160 phase unit heater with an accessory transformer to convert to voltage shown.

**FAN COIL SCHEDULE**

ID	LOCATION	TYPE	AIR		FAN		COIL		ELECTRICAL		OTHER		NOTES
			MAXIMUM AIRFLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (IN. WATER)	MOTOR SIZE (HP)	LOAD (BTU/H)	VOLT/PH/Hz	FLOW					
FC-1	Women's Locker	Heating Coil	4000	0.5	1	127,000	208/3/	24 GPM @ 5.8 CHW	1				
FC-1	Men's Team Room	Heating Coil	4000	0.5	1	127,000	208/3/	24 GPM @ 5.8 CHW	1				

- DATA IS FROM ORIGINAL SCHEDULE. FIELD VERIFY ALL REPLACEMENT PARTS.





**(A1) NEW PARTIAL ONE-LINE DIAGRAM**  
NO SCALE

### CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) **(5)**<sub>IG</sub>  
SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1)		IG	SE	NOTES
			QTY	SIZE			
(1)	20	.75	2	12	12	8	2
(2)	20	.75	3	12	12	8	2,3
(3)	20	.75	4	12	12	8	2,3
(4)	30	.75	2	10	10	8	2
(5)	30	.75	3	10	10	8	2
(6)	30	.75	4	10	10	8	2
(7)	40	1	2	8	10	8	6,2
(8)	40	1	3	8	10	8	6,2
(9)	40	1	4	8	10	8	6,2
(10)	55	1	2	6	10	8	4,2
(11)	55	1	3	6	10	8	4,2
(12)	55	1.25	4	6	10	8	4,2
(13)	70	1	2	4	8	4	2,2
(14)	70	1.25	3	4	8	4	2,2
(15)	70	1.25	4	4	8	4	2,2
(16)	85	1.25	2	3	8	3	2,2
(17)	85	1.25	3	3	8	3	2,2
(18)	85	1.25	4	3	8	3	2,2
(19)	95	1.25	3	2	8	2	2,2
(20)	95	1.50	4	2	8	2	2,2
(21)	130	1.50	3	1	6	2	2,2
(22)	130	1.50	4	1	6	2	2,2
(23)	150	2	3	1/0	6	2	1/0,2
(24)	150	2	4	1/0	6	2	1/0,2
(25)	175	2	3	2/0	6	2	2/0,2
(26)	175	2	4	2/0	6	2	2/0,2
(27)	200	2	3	3/0	6	2	2/0,2
(28)	200	2.50	4	3/0	6	2	2/0,2
(29)	230	2.50	3	4/0	4	2	2/0,2
(30)	230	2.50	4	4/0	4	2	2/0,2
(31)	255	2.50	3	250	4	1	2/0,2
(32)	255	2.50	4	250	4	1	2/0,2
(33)	310	3	3	350	3	1/0	3/0,2
(34)	310	3	4	350	3	1/0	3/0,2
(35)	380	3.50	3	500	3	3/0	3/0,2
(36)	380	4	4	500	3	3/0	3/0,2
(37)	400	2 EA 2	3	3/0	3	3/0	3/0,2
(38)	400	2 EA 2.50	4	3/0	3	3/0	3/0,2
(39)	510	2 EA 2.50	3	250	1	4/0	3/0,2
(40)	510	2 EA 3	4	250	1	4/0	3/0,2
(41)	620	2 EA 3	3	350	1/0	4/0	3/0,2,4
(42)	620	2 EA 3	4	350	1/0	4/0	3/0,2,4
(43)	760	2 EA 3.50	3	500	1/0	4/0	3/0,2,4
(44)	760	2 EA 4	4	500	1/0	4/0	3/0,2,4
(45)	855	3 EA 3	3	300	2/0	4/0	3/0,2,4
(46)	855	3 EA 3	4	300	2/0	4/0	3/0,2,4
(47)	1000	3 EA 3.50	3	400	2/0	4/0	3/0,4
(48)	1000	3 EA 3.50	4	400	2/0	4/0	3/0,4
(49)	1140	3 EA 4	3	500	3/0	4/0	3/0,4
(50)	1140	3 EA 4	4	500	3/0	4/0	3/0,4
(51)	1240	4 EA 3	3	350	3/0	4/0	3/0,4
(52)	1240	4 EA 3	4	350	3/0	4/0	3/0,4
(53)	1675	5 EA 3.50	4	400	4/0	4/0	4/0,4
(54)	2010	6 EA 3.50	4	400	250	250	250,4
(55)	2660	7 EA 4	4	500	350	350	350,4
(56)	3040	8 EA 4	4	500	500	500	500,4
(57)	4180	11 EA 4	4	500	500	500	500,4
(58)		5 EA 4					6
(59)		5					6
(60)		10 EA 4					6

- CONDUCTOR AND CONDUIT SCHEDULE NOTES**
- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
  - PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
  - PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
  - GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
  - WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
  - RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

### GENERAL SHEET NOTES

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO SPECIFICATIONS SECTION 16071 FOR REQUIREMENTS.

### SHEET KEYNOTES

- ALL INTERNAL WIRING OF PACKAGED UNIT TO INDIVIDUAL MOTORS BY EQUIPMENT MANUFACTURER. PROVIDE SINGLE POINT CONNECTION TO AIR HANDLER AHU-1.
- PROVIDE NEW 80A/3P BREAKER IN EXISTING MAIN PANEL "M1". FIELD VERIFY PANEL TYPE AND PROVIDE BREAKER TO MATCH.
- PROVIDE NEW 50A/3P BREAKER IN EXISTING "MCC". COORDINATE REQUIREMENTS WITH "MCC" MANUFACTURER. FIELD VERIFY.



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Bountiful, Utah 84010  
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Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:  
  
CONSULTANTS:  
STRUCTURAL ENGINEER  
MECHANICAL ENGINEER  
ELECTRICAL ENGINEER

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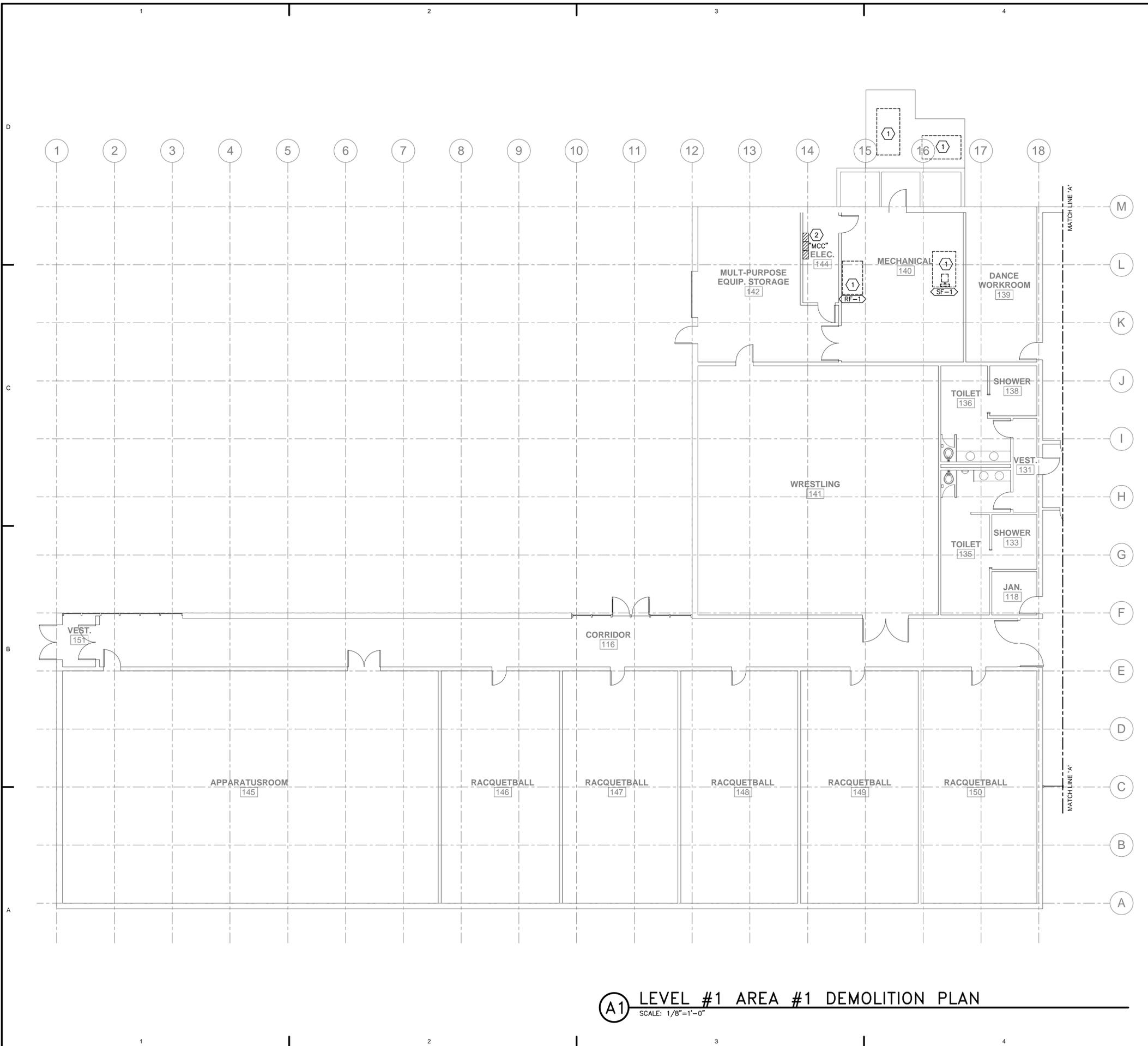
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SPE PROJECT #: 06-35  
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DESIGNED BY: DLA

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SHEET TITLE:  
**ONE-LINE DIAGRAMS**  
SHEET NUMBER:  
**EE-002**



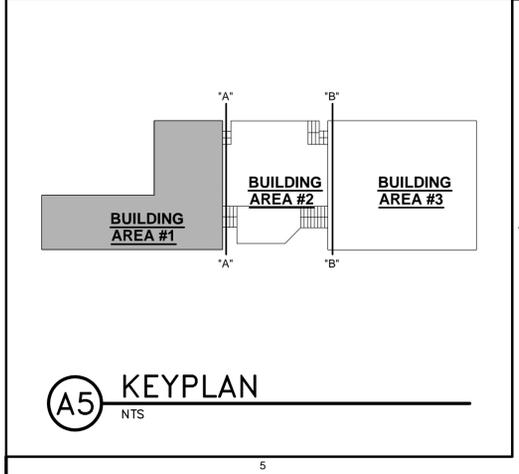
**A1** LEVEL #1 AREA #1 DEMOLITION PLAN  
SCALE: 1/8"=1'-0"

**GENERAL SHEET NOTES**

1. PROVIDE GROUNDING CONDUCTORS PER NEC FOR CIRCUITS AFFECTED BY THIS WORK.
2. RELOCATE AND/OR REROUTE EXISTING CONDUIT, WIRING OR OTHER EQUIPMENT THAT CONFLICTS WITH DEMOLITION OR NEW CONSTRUCTION.
3. REMOVE ALL CONDUIT, WIRING AND CABLING THAT IS ABANDONED OR WILL BECOME ABANDONED AS A RESULT OF THIS PROJECT.
4. WHERE DEVICES, LIGHT FIXTURES OR OTHER EQUIPMENT ARE BEING REMOVED, REMOVE ASSOCIATED CONDUIT AND WIRING TO PANEL BOARD OR FIRST ACTIVE JUNCTION BOX.

**SHEET KEYNOTES**

1. REMOVE CONNECTION TO EXISTING EQUIPMENT ALONG WITH CONDUIT AND WIRING BACK TO MOTOR CONTROL CENTER "MCC". REMOVE EXISTING STARTER/DISCONNECT IN "MCC" AND REPLACE WITH NEW BREAKER. SEE ONE-LINE DIAGRAM.
2. REMOVE EXISTING COMBINATION STARTER DISCONNECTS THAT FED THE GYM EVAPORATIVE COOLERS AS REQUIRED TO ACCOMMODATE THE NEW CIRCUIT BREAKERS FOR THE GYM UNITS GU-1 AND GU-2. FIELD VERIFY REQUIREMENTS.



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info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:

- STRUCTURAL ENGINEER
- Mechanical Engineering
- ELECTRICAL ENGINEER
- MECHANICAL ENGINEER
- ELECTRICAL ENGINEER
- MECHANICAL ENGINEER

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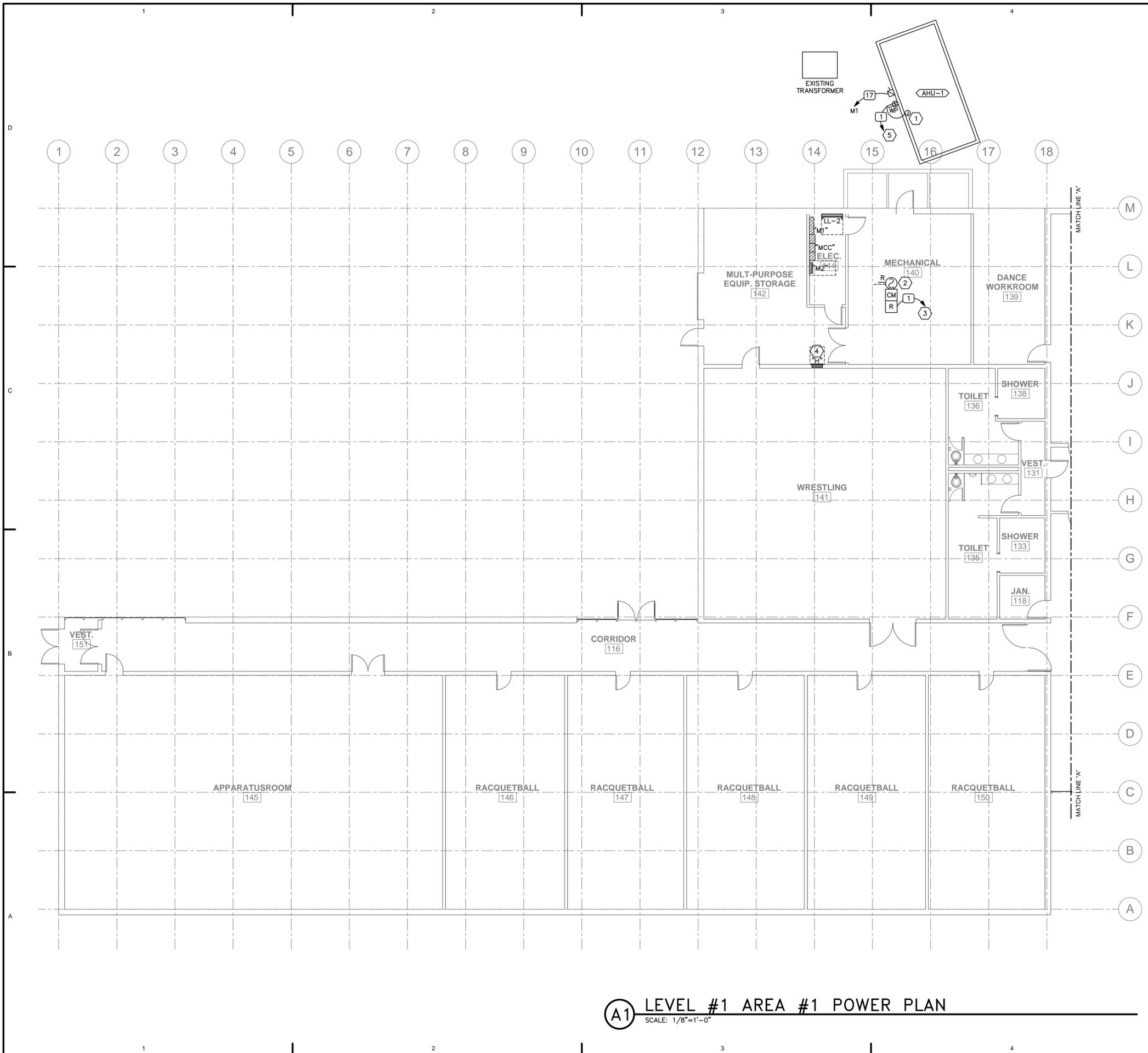
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1	5/21/07	CONSTRUCTION DOCUMENTS

DFCM PROJECT #: 06162610  
SPE PROJECT #: 06-35  
DRAWN BY: PSS  
CHECKED BY: DLA  
DESIGNED BY: DLA

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SHEET TITLE:  
**LEVEL #1 AREA #1  
DEMOLITION PLAN**

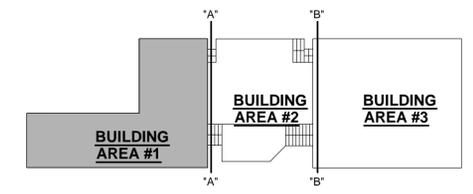
SHEET NUMBER:  
**ED-101**



**A1** LEVEL #1 AREA #1 POWER PLAN  
SCALE: 1/8"=1'-0"

**SHEET KEYNOTES**

1. PROVIDE CONNECTION TO INTERNAL LIGHTS. VERIFY REQUIREMENT WITH MECHANICAL EQUIPMENT INSTALLER.
2. PROVIDE NEW DUCT SMOKE DETECTOR IN AHU-1 RETURN AIR DUCT. TIE INTO EXISTING FIRE ALARM PANEL INITIATING LOOP AS REQUIRED. FIELD VERIFY EXISTING FIRE ALARM SYSTEM AND PROVIDE DEVICE TO MATCH. EXISTING FIRE ALARM CONTROL PANEL MANUFACTURER IS GAMEWELL.
3. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER.
4. PROVIDE 1-EACH NEW 20A/1P BREAKER IN EXISTING PANEL "H". FIELD VERIFY PANEL TYPE AND MATCH BREAKER TO PANEL.
5. CONNECT TO NEW BREAKER IN EXISTING PANEL "H".



**A5** KEYPLAN  
NTS

ARCHITECT'S INFORMATION:

**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:

- STRUCTURAL ENGINEER: [Redacted]
- MECHANICAL ENGINEER: [Redacted]
- ELECTRICAL ENGINEER: [Redacted]

PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

REVISIONS:

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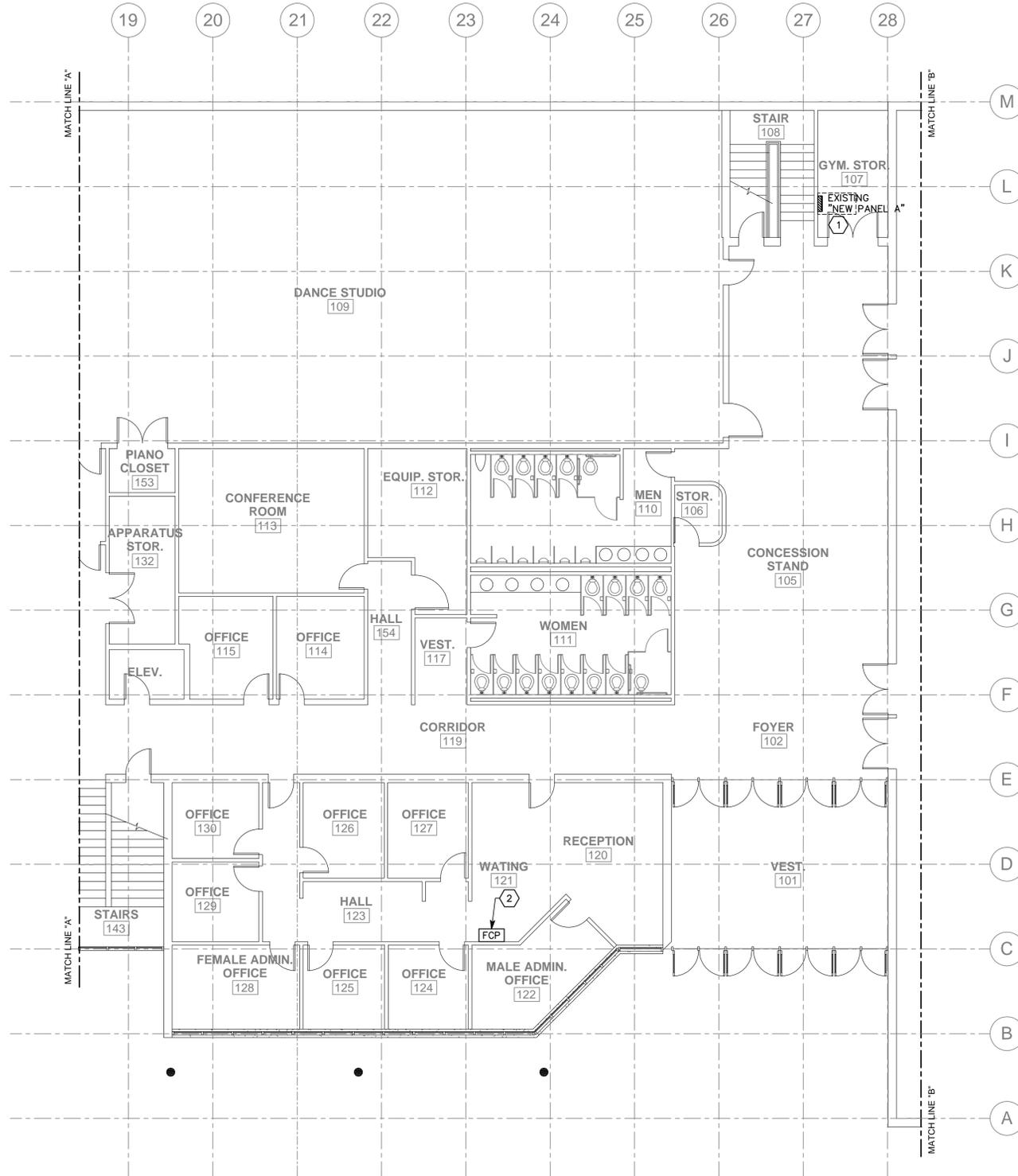
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SHEET TITLE:

**LEVEL #1 AREA #1  
POWER PLAN**

SHEET NUMBER:

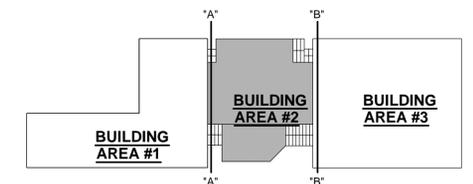
**EP-101**



**A1** LEVEL #1 AREA #2 POWER PLAN  
SCALE: 1/8"=1'-0"

**SHEET KEYNOTES**

1. PROVIDE 3-EACH NEW 20A/1P BREAKERS IN EXISTING "NEW PANEL A". FIELD VERIFY PANEL TYPE AND PROVIDE MATCHING BREAKERS.
2. EXISTING GAMEWELL FIRE ALARM CONTROL PANEL.



**A5** KEYPLAN  
NTS

ARCHITECT'S INFORMATION:



**SCOTT P. EVANS ARCHITECT & ASSOCIATES P.C.**  
108 West Center Street  
Bountiful, Utah 84010  
Telephone - 801.298.1368  
Telefax - 801.298.2192  
info@spe-architect.com  
www.spe-architect.com

PROFESSIONAL STAMP:

CONSULTANTS:

- STRUCTURAL ENGINEER
- METAL FABRICATING
- MECHANICAL ENGINEER
- PIPE CONDUCTING
- ELECTRICAL ENGINEER
- MECHANICAL ENGINEER

PROJECT NAME:

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BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

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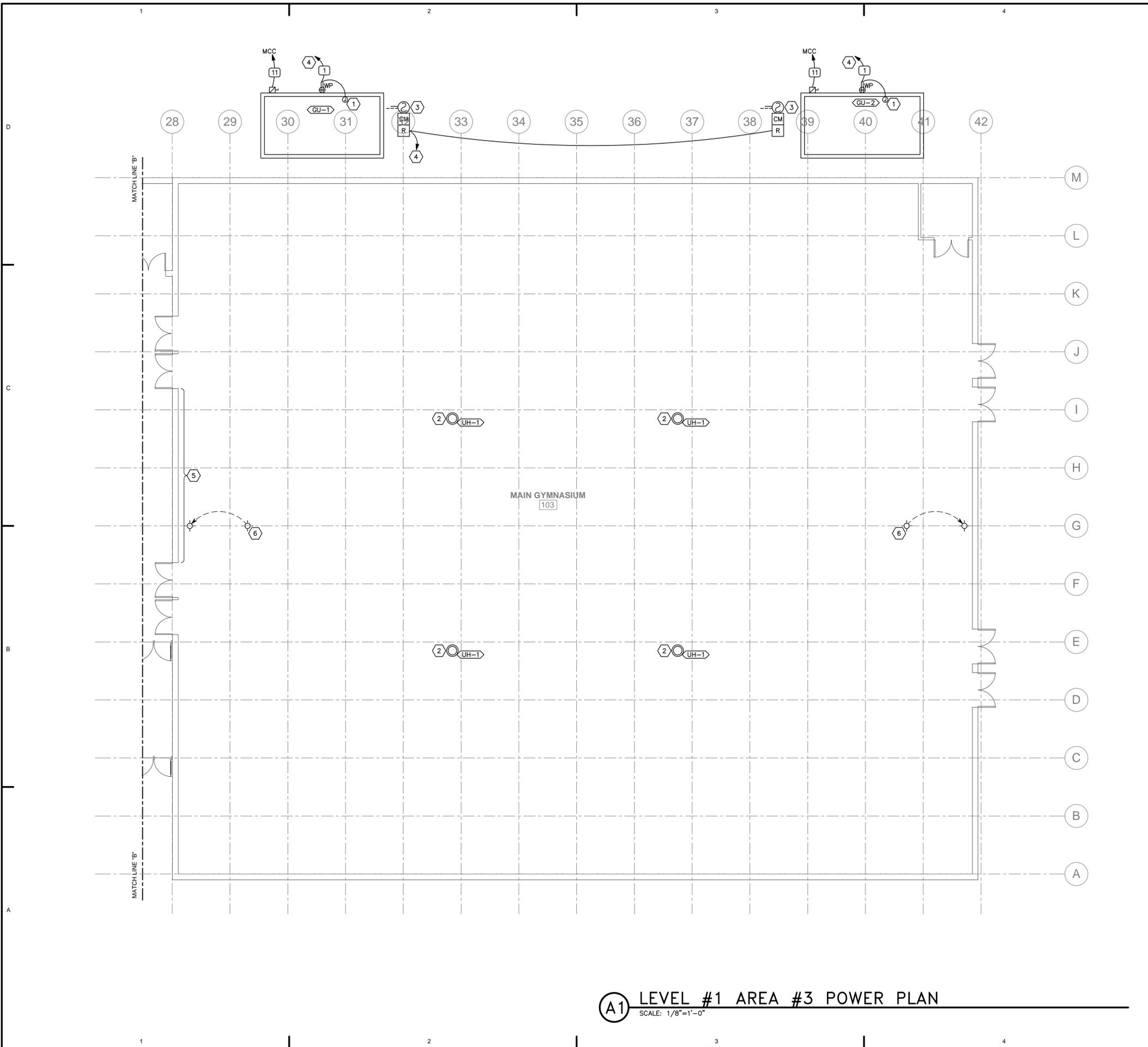
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1	5/21/07	CONSTRUCTION DOCUMENTS

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SHEET TITLE:  
**LEVEL #1 AREA #2  
POWER PLAN**

SHEET NUMBER:  
**EP-102**



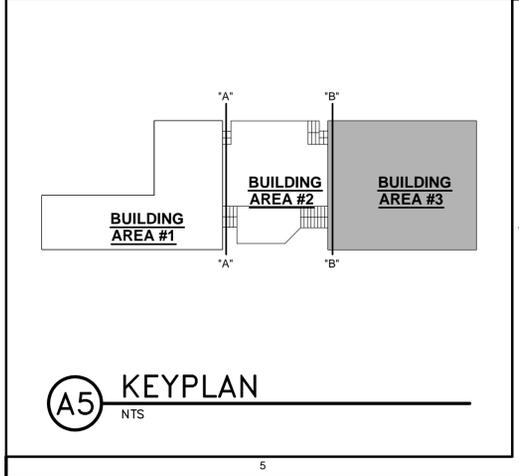
**(A1) LEVEL #1 AREA #3 POWER PLAN**  
SCALE: 1/8"=1'-0"

### GENERAL SHEET NOTES

- COORDINATE ROUTING OF CONDUITS IN THE BUILDING WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

### SHEET KEYNOTES

- PROVIDE CONNECTION TO 120-VOLT LIGHT FIXTURES INTEGRAL TO UNIT. VERIFY REQUIREMENTS WITH EQUIPMENT.
- ADD ALTERNATE #1: RECONNECT NEW UNIT HEATER UH-1 TO EXISTING CIRCUIT. VERIFY OVERCURRENT PROTECTION AND PROVIDE NEW OVERCURRENT DEVICES BASED ON NAMEPLATE DATA OF NEW UNIT HEATER.
- PROVIDE NEW DUCT SMOKE DETECTOR IN GYM UNIT AIR HANDLER RETURN AIR DUCT. TIE INTO EXISTING FIRE ALARM PANEL INITIATING LOOP AS REQUIRED. FIELD VERIFY EXISTING FIRE ALARM SYSTEM AND PROVIDE DEVICE TO MATCH. EXISTING FIRE ALARM CONTROL PANEL MANUFACTURER IS GAMEWELL.
- CONNECT TO NEW 20A/1P BREAKER IN EXISTING "NEW PANEL A".
- UTILIZE EXISTING CONDUITS THAT FED THE EVAPORATIVE COOLERS FOR RACEWAY BACK TO THE "MCC" IN ORDER TO FEED THE GYM UNIT AIR HANDLERS GU-1 & GU-2. FIELD VERIFY EXACT LOCATION OF CONDUITS AND REQUIREMENTS TO INTERCEPT THEM.
- RELOCATE EXISTING HIGH BAY LIGHT FIXTURE TO ACCOMMODATE NEW MECHANICAL DUCT WORK. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. COORDINATE WITH DUCTWORK INSTALLER.



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- ELECTRICAL ENGINEER
- MECHANICAL ELECTRICAL

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SHEET TITLE:

**LEVEL #1 AREA #3  
POWER PLAN**

SHEET NUMBER:

**EP-103**