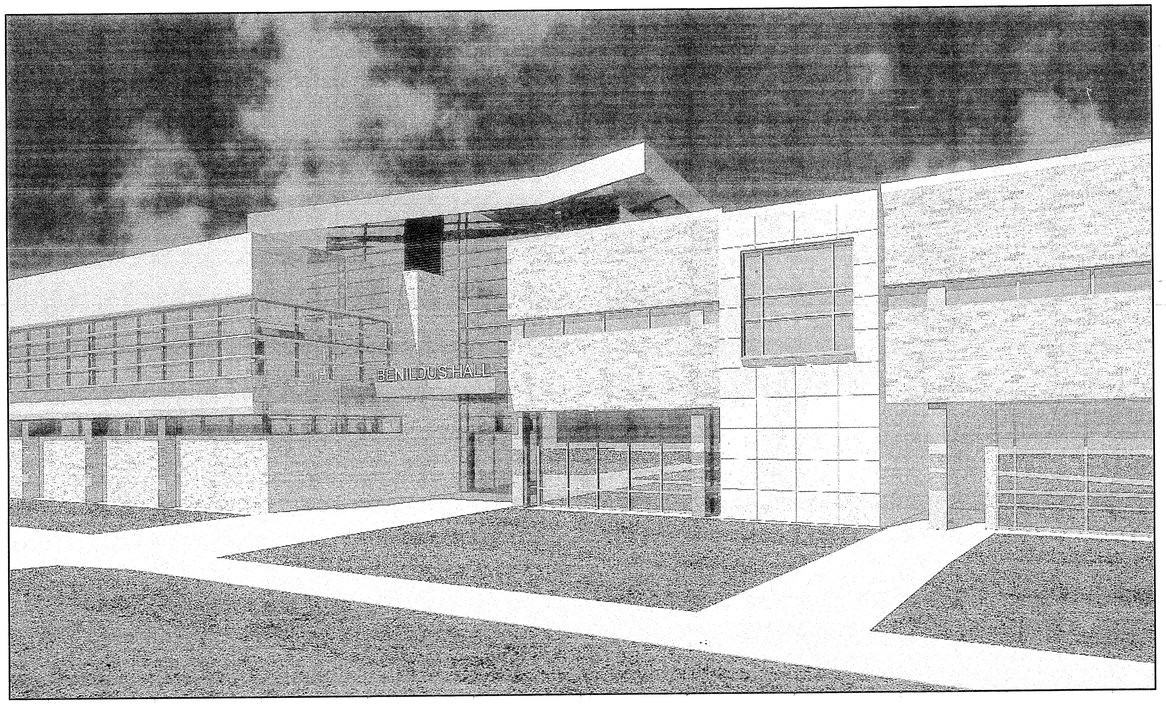
BENILDUS HALL - PHASE 2
COLLEGE OF SANTA FE
SANTA FE, NEW MEXICO



PROJECT DIRECTORY

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320 CENTRAL S.W.
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505-843-9639
CONTACT: SHARY ADAMS

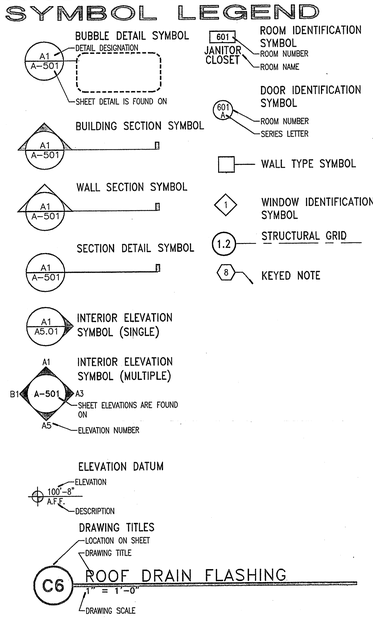
CIVIL ENGINEER
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ELECTRICAL ENGINEER
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ARCHITECTURAL SHEETS SYMBOL LEGEND



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M-701	MECHANICAL EQUIPMENT SCHEDULES

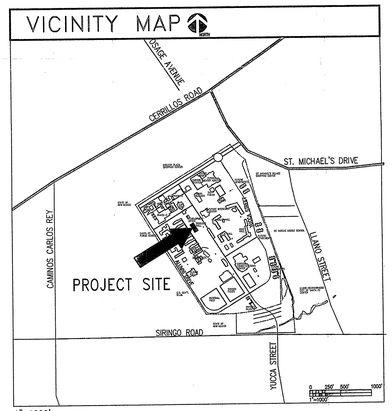
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FIRE PROTECTION

FP-101	FIRE PROTECTION - FIRST FLOOR
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VICINITY MAP



1"=1000'
SANTA FE, NM

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CONSULTANTS

Architect Engineer

BENILDUS HALL
PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION
ISSUE:		CONSTRUCTION SET
PROJECT NO:		0335P2
CAD DWG FILE:		0335P2-G100.DWG
DRAWN BY:		
CHECKED BY:		
DATE:		11/08/04

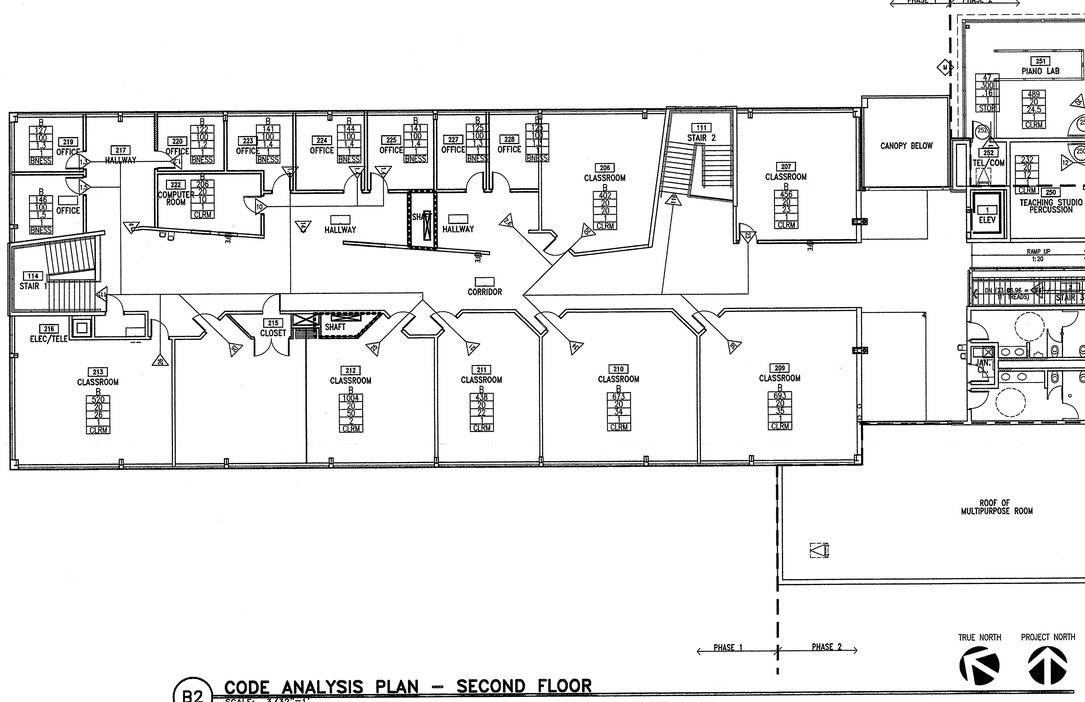
SHEET TITLE

INDEX OF DRAWINGS, PROJECT DIRECTORY AND VICINITY MAP

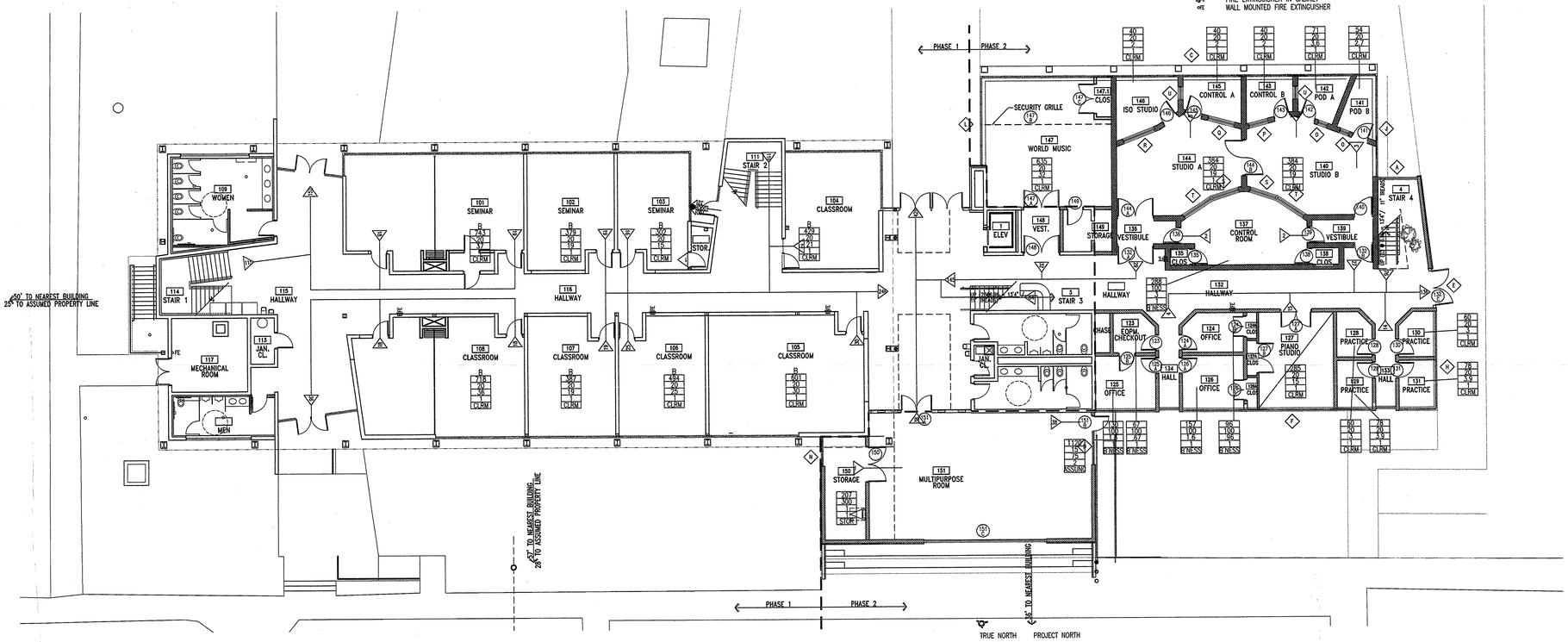
G100

sheet of . sheets

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B2 **CODE ANALYSIS PLAN – SECOND FLOOR**
SCALE: 3/32"=1'



A2 **CODE ANALYSIS PLAN – FIRST FLOOR**
SCALE: 3/32"=1'

CODE ANALYSIS KEY

- NET AREA / OCC. OCCUPANCY LOAD FACTOR / # OCC. OCCUPANTS (SEE 1004) / # EXITS REQUIRED / EXIT WIDTH REQ. FOR OCCUPANCY (TABLE 10A)
- EGRESS CAPACITY OF DOOR AT .2"/OCC. / WIDTH OF DOOR OPENING (IN INCHES)
- EGRESS CAPACITY OF STAIR AT .2"/OCC. / WIDTH OF DOOR OPENING (IN INCHES)
- 1 HOUR CORRIDOR WALL – 20 MIN. F.R. OPENINGS – FIRE SAFE ALL THROUGH PENETRATIONS – FIRE DAMPERS AT DUCT PENETRATIONS OF DUCTS OPENING INTO CORRIDOR– FIRE SAFE ALL JOINTS – FIRE SAFE TOP OF WALL AT ROOF DECK – FIRE SAFE ALL MEMBRANE PENETRATIONS
- 2 HR AREA SEPARATION WALL – 90 MIN. F.R. OPENINGS – FIRE DAMPERS AT ALL DUCT PENETRATIONS – WALL MAY TERMINATE AT UNDERSIDE OF N.C. ROOF DECK IF THERE ARE NO OPENINGS WITHIN 5' OF WALL AND THE ENTIRE BUILDING IS ROOFED WITH A SYSTEM HAVING A MINIMUM CLASS B RATING – FIRE SAFE ALL JOINTS – FIRE SAFE TOP OF WALL AT ROOF DECK – NO MEMBRANE PENETRATIONS
- 1 HR OCCUPANCY SEPARATION WALL – 60 MIN. F.R. OPENINGS – FIRE SAFE ALL THROUGH PENETRATIONS – FIRE DAMPERS AT ALL DUCT PENETRATIONS – FIRE SAFE ALL JOINTS – FIRE SAFE TOP OF WALL AT ROOF DECK – FIRE SAFE ALL MEMBRANE PENETRATIONS
- EXIT ACCESS – CORRIDOR
- CALCULATED NO. OF OCCUPANTS EXITING THIS DOOR
- ACCESSIBLE "ENTRANCE/EXIT"
- ACCESSIBLE "EXIT ONLY"
- FE FIRE EXTINGUISHER IN CABINET
- FE WALL MOUNTED FIRE EXTINGUISHER

NEW ADDITION IBC2003/UBC97

DESIGN DATA

LEGAL DESCRIPTION:
ADDITION TO BENILDUS HALL, AN EXISTING BUILDING AT THE COLLEGE OF SANTA FE
SANTA FE
PHASE 2

CODES REFERENCED:
1997 NEW MEXICO BUILDING CODE
2003 INTERNATIONAL BUILDING CODE
OCCUPANCY:
OCCUPANCY GROUP TYPE B

CONSTRUCTION TYPE:
TYPE II B IBC / TYPE II N UBC
FULLY SPRINKLERED – AUTOMATIC SPRINKLERS
PHASE 2 ENCLOSED SPACE
1ST FLOOR ADDITION = 6337 → 11,477 S.F.
2ND FLOOR ADDITION = 5140
PHASE 1
1ST FLOOR = 10732 → 21,464 S.F.
2ND FLOOR = 10732
BUILDING HEIGHT = 33'-10 1/2"
TWO STORIES

ALLOWABLE AREA (2003 IBC)

ALLOWABLE AREA FOR E OCCUPANCY / TYPE VA
BASE AREA 18,500
SEPARATION – ADD 75% X BASE
AUTOMATIC SPRINKLER SYSTEM – ADD 200% X BASE
ADJUSTED ALLOWABLE AREA = 67500
ACTUAL AREA = 11,477

ALLOWABLE AREA OF MIXED OCCUPANCY (2003 IBC)

ACTUAL OCCUPANTS = 357
EXIT WIDTH REQUIRED = 72"
EXIT WIDTH ACTUAL = 252"

EXITING (IBC 2003)

MAX. ALLOWABLE TRAVEL DISTANCE (TABLE 1015.1) – 300FT. IN A SPRINKLED B OCC.

FIRE RESISTIVE REQUIREMENTS W/R/T LOCATION

(IBC 2003)

TYPE 2B	
BEARING WALLS	1 HOUR N.C <20' NR/N.C ELSEWHERE
NON BEARING WALLS	SAME AS BEARING WALLS
OPENINGS	NOT ALLOWED <5' PROTECTED 5'–10'

FIRE RESISTIVE REQUIREMENTS W/R/T CONSTRUCTION TYPE

(UBC97 TABLE 6A)	TYPE N
EXT. BRG. WALLS	N
INT. BRG. WALLS	N
EXT. NONBRG. WALLS	N
STRUCTURAL FRAME	N
PERM. PARTITIONS	N
SHAFT	1HR
ROOF AND ROOF CEILING	N
EXT. WINDOWS AND DOORS	PER TABLE 5A

FIRE EXTINGUISHER REQUIREMENTS (NFPA10)

1 FOR CLASS A FIRES, ALL HAZARD CLASSIFICATIONS REQUIRE MAX. FLOOR AREA PER EXT. 11,250 SF
2 FOR CLASS A FIRES, ALL HAZARD CLASSIFICATIONS REQUIRE MAX. TRAVEL DISTANCE OF
3 FOR CLASS C HAZARDS, THE FIRE IS A CLASS A OR B HAZARD. THE EXTINGUISHERS / SIZED AND LOCATED ACCORDING TO THOSE GUIDELINES.

FIRE EXTINGUISHERS PROVIDED – FOUR

PLUMBING FIXTURES : UPON COMPLETION OF PHASE 2

IBC TABLE 2902.1

	# OCC.
PHASE 1	434
PHASE 2	357
	791

		# OCC.	WC	LAV	DF	SS
REQUIRED	MEN	396	9	5.45		
	WOMEN	396	9	5.45		
	DRINKING FOUNTAINS	792			8	
	SERVICE SINK	792				1

		WC	UR*	LAV	DF	SS
PROVIDED	MEN	5	5	6		
	WOMEN	10		7		
	DRINKING FOUNTAINS				9(4UP,5DN)	
	SERVICE SINK					3

* URINALS MAY REPLACE UP TO 1/2 REQUIRED WC'S

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CONSULTANTS

Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0219–G101.DWG
DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

SHEET TITLE

CODE ANALYSIS SUMMARY SHEET

sheet G101 of sheets

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LEGEND

- 60 — EXISTING CONTOURS
- 65.0 — DESIGN CONTOURS
- 00.0 F.G. — SITE BOUNDARY / SPOT ELEVATION
- TOC — TOP OF CURB
- FG — FIELD GRADE
- TOS — TOP OF SIDEWALK
- INV — INVERT
- TW — TOP OF WALL
- RIP RAP MAT
- WATER FLOW DIRECTION
- GRAVEL
- PAVEMENT
- CONCRETE

SCALE: 1" = 20'

20' 0 20'

CONTOUR INTERVAL = 1' EXISTING
1' DESIGN

TERRAIN MANAGEMENT NOTE

NO BUILDINGS WILL BE BUILT ON A NATURAL SLOPE GREATER THAN 30%.

STAKING NOTE

INFORMATION SHOWN IS FOR GRADING AND DRAINAGE ONLY AND IS NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

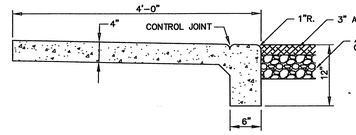
TOPOGRAPHY NOTE

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED AND CERTIFIED BY OTHERS. WALKER ENGINEERING HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS TOPOGRAPHY INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR OF THIS TOPOGRAPHY. WALKER ENGINEERING RESPONSIBILITY IS LIMITED TO THE ENGINEERING ANALYSIS THAT UTILIZES THE TOPOGRAPHY SURVEY.

UTILITY NOTE

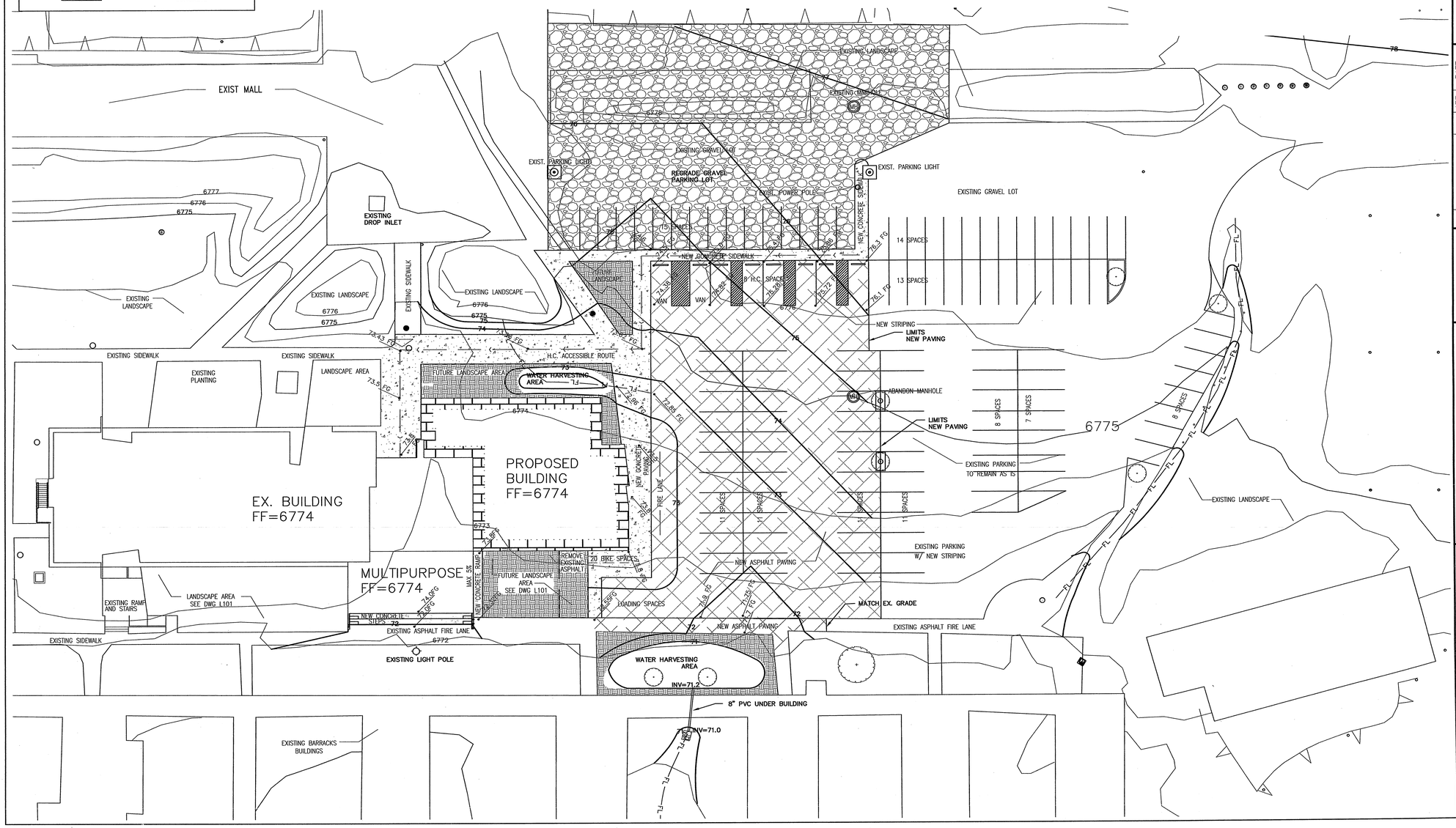
IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY. UTILITY LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS. THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUES PERTAINING TO THE LOCATION OF THESE LINES IN PLANNING AND CONDUCTING EXCAVATION WORK.



MONOLITHIC SIDEWALK DETAIL

SCALE: 1"= 1'



Civil Engineering • Water Resources • Traffic Engineering

W • E Walker Engineering

905 Camino Sierra Vista, • Santa Fe, NM 87501

505-982-7880
FAX 505-982-8659
E-MAIL civil@walkerengineering.net

No.	REVISION	BY	APP.	DATE

PROJECT: 04-139
FILE: 139 GRADE
DATE: 10/20/04
SCALE: AS NOTED

DESIGNED BY: R.I.F.
DRAWN BY: R.I.F.
CHECKED BY: M.E.W.

PROJECT: *COLLEGE OF SANTA FE BENILDUS HALL*

SHEET TITLE: *GRADING AND DRAINAGE PLAN*

COUNTY REVIEW

DEPARTMENT	SIGN-OFF	DATE
LAND USE PLANNER		
PUBLIC WORKS DIRECTOR		
S.F. WATER COMPANY		
-		
-		

COUNTY USE ONLY

SHEET NO.

C-1

GENERAL FOUNDATION NOTES

GENERAL:

A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY GEO-TEST.

A REPORT OF THAT INVESTIGATION IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT.

ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORTS AND SHOULD BE REVIEWED.

FIELD OBSERVATION AND TESTS:

THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK.

TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:

ONE FIELD DENSITY TEST PER EACH 500 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL OR FLOOR SLAB CONSTRUCTION WITH A MINIMUM OF 3 TESTS.

ONE FIELD DENSITY TEST PER EACH 300 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.

ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.

THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

CLEARING AND GRUBBING:

REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.

REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 6 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR FOOTINGS ARE TO BE CONSTRUCTED.

REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:

A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL.

OVEREXCAVATE ALL SOILS TO 6 FEET BELOW EXISTING GRADE OR 4 FEET BELOW FOOTINGS, WHICHEVER IS GREATER.

SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 12 INCHES, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER.

PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN 8 INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

ALL EARTHWORK FOR THE BUILDING PAD SHALL EXTEND A MINIMUM OF 4 FEET BEYOND THE PERIMETER FOOTINGS.

STRUCTURAL FILL REQUIREMENTS:

GRADATION (ASTM D422):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
6"	100
3"	90-100
NO. 4	60-100
NO. 200	5-50

PLASTICITY INDEX (ASTM D4318): 12 MAX.

MATERIAL LARGER THAN 6 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL, AND MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED WITHIN TWELVE INCHES OF THE BEARING SURFACES OF SLABS OR FOUNDATIONS.

NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.

IMPORTED FILL OR EXISTING SOILS MAY BE USED FOR THE STRUCTURAL FILL. HOWEVER, IN ORDER TO MEET THE ABOVE CRITERIA, THE ON SITE SOILS WILL PROBABLY NEED TO BE MIXED WITH IMPORTED FILL. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE MOST APPROPRIATE METHOD TO PROVIDE THE REQUIRED STRUCTURAL FILL.

GRANULAR BASE COURSE REQUIREMENTS:

GRADATION (ASTM C136):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
1"	100
3/4"	85-100
NO. 4	45-95
NO. 200	0-8

PLASTICITY INDEX (ASTM D4318): 3 MAX.

THE COURSE AGGREGATE SHALL HAVE A PERCENT WEAR OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM C131.

COMPACTION REQUIREMENTS:

SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT +/- 2% OPTIMUM MOISTURE CONTENT:

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

GENERAL STRUCTURAL NOTES

CODES AND MANUALS:

UNIFORM BUILDING CODE, 1997 ED.
AISC MANUAL OF STEEL CONSTRUCTION – ALLOWABLE STRESS DESIGN, 9TH ED.
SJI STANDARD SPECIFICATION FOR STEEL JOISTS, K-SERIES, LH-SERIES, DLH SERIES, AND JOIST GIRDERS, 1994 ED.
SDI DIAPHRAGM DESIGN MANUAL, 2ND ED.
AISI SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 1986 ED. (WITH DECEMBER 1989 ADDENDUM).
ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-95.
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, REV. 1991 ED.
AWS D1.1 AND D1.3

DESIGN CRITERIA:

VERTICAL:

LIVE LOAD	
ROOF (SNOW)*	25 PSF
FLOOR	80 PSF
CORRIDORS AND STAIRS	100 PSF
ADDITIONAL SUPERIMPOSED LOADS	
PARTITIONS	20 PSF
CONCENTRATED LOAD	2000 POUNDS
(PER UBC 1607.3.3)	

* LOAD HAS NOT BEEN REDUCED IN ACCORDANCE WITH UBC SECTION 1607.5

HORIZONTAL:

WIND** (METHOD 2)	P = CE CQ QS I
COMBINED HEIGHT, EXPOSURE & GUST FACTOR (CE FROM TABLE NO 16-G)	
PRESSURE COEFFICIENTS 0-40 FT.	CQ = 1.3
WIND STAGNATION PRESSURE (BASIC WIND SPEED = 75 MPH)	QS = 15.0 PSF
IMPORTANCE FACTOR	I = 1.0
EXPOSURE "C"	

WIND PRESSURE 0-15 FT.	= 20.7 PSF
15-20 FT.	= 22.0 PSF
20-25 FT.	= 23.2 PSF
25-30 FT.	= 24.0 PSF
30-40 FT.	= 25.5 PSF

SEISMIC**	
ZONE 2B	Z = 0.20
SOIL PROFILE TYPE	SD
IMPORTANCE FACTOR (TABLE 16-K)	I = 1.0
SEISMIC COEFFICIENT (TABLE 16-R)	CV = 0.40
STRUCTURAL SYSTEM COEFFICIENT	R = 4.5
BUILDING PERIOD	T = 0.224
SEISMIC COEFFICIENT (TABLE 16-Q)	CA = 0.28
SEISMIC FORCE EQUATION	V = (2.5 CA I / R) W (30-5)
SEISMIC FORCE	V = 0.700 W

** ALLOWABLE 1/3 STRESS INCREASE FOR WIND OR SEISMIC LOADING.

ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF.

GENERAL:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.

SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.

TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.

THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.

NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

BACKFILL SHALL NOT BE PLACED BEHIND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED 100 PERCENT OF DESIGN STRENGTH.

REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

THE CONTRACTOR SHALL SUBMIT FOR PRIOR APPROVAL THE END OF POUR LOCATIONS FOR CONCRETE GRADE BEAMS, CONCRETE COLUMNS, AND CONCRETE BEAMS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA, INCLUDING THE FOLLOWING REQUIREMENTS FROM STANDARDS – 29 CFR, SECTION 1926, SUBPART R:

A. THE STEEL ERECTION CONTRACTOR SHALL NOT ERECT STEEL UNLESS THEY HAVE RECEIVED WRITTEN NOTIFICATION FROM THE CONTRACTOR THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED, ON THE BASIS OF AN APPROPRIATE ASTM STANDARD TEST METHOD OF FIELD-CURED SAMPLES, EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.

   PROVIDE STRUCTURAL ENGINEER A COPY OF WRITTEN NOTIFICATION WHEN IT IS PROVIDED TO THE STEEL ERECTOR.

B. ANCHOR RODS (ANCHOR BOLTS) SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.

   PRIOR TO ERECTION OF COLUMNS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE STEEL ERECTOR IF THERE HAS BEEN ANY REPAIR, REPLACEMENT OR MODIFICATION OF THE ANCHOR RODS (ANCHOR BOLTS).

   PROVIDE STRUCTURAL ENGINEER A COPY OF WRITTEN NOTIFICATION WHEN IT IS PROVIDED TO THE STEEL ERECTOR.

C. NO MODIFICATION THAT AFFECTS THE STRENGTH OF A STEEL JOIST OR STEEL JOIST GIRDER SHALL BE MADE WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.

D. METAL DECKING HOLES AND OPENINGS SHALL NOT BE CUT UNTIL IMMEDIATELY PRIOR TO BEING PERMANENTLY FILLED WITH THE EQUIPMENT OR STRUCTURE, OR SHALL BE IMMEDIATELY COVERED.

CAST-IN-PLACE CONCRETE:

ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-96.

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

NORMAL WEIGHT CONCRETE:
A. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) – ALL EXPOSED EXTERIOR CONCRETE FLAT WORK (I.E., SLABS, EQUIPMENT PADS, ETC.).
B. F'C = 3000 PSI @ 28 DAYS – ALL INTERIOR CONCRETE (I.E. FOOTINGS, PEDESTALS, RETAINING WALLS, ETC.).
C. F'C = 3000 PSI @ 28 DAYS – ALL INTERIOR SLABS ON GRADE.
D. F'C = 3000 PSI @ 28 DAYS – ALL CONCRETE TOPPING OVER HOLLOW-CORE SLABS.

THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, STEM WALLS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES.

ALL CONCRETE EXPOSED TO GROUND SHALL BE MANUFACTURED WITH PORTLAND CEMENT TYPE II.

PRECAST / PRESTRESSED CONCRETE:

PRECAST / PRESTRESSED CONCRETE SHALL BE FABRICATED IN ACCORDANCE WITH DESIGNS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THAT THE PROJECT IS LOCATED.

SHOP DRAWINGS AND STAMPED CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD. SPECIAL LOADS AND CONCENTRATED LOADS SHALL BE ACCOUNTED FOR. CALCULATIONS SHALL INCLUDE COMPLETE PRECAST MEMBER AND CONNECTION DESIGN.

F'C = 5000 PSI @ 28 DAYS, MINIMUM.

F'C = 3500 PSI MINIMUM AT TRANSFER OF PRESTRESS.

PRESTRESSING TENDONS SHALL CONFORM TO ASTM A416, FPU = 270 KSI.

PRECAST CONNECTIONS SHOWN MAY VARY TO CONFORM TO PRECAST SUPPLIERS STANDARDS. PRIOR APPROVAL MUST BE OBTAINED FROM THE ENGINEER OF RECORD.

ANY REINFORCING SHOWN IS FOR IN-SERVICE LOADING CONDITIONS ONLY AND DOES NOT REFLECT ANY SPECIAL REINFORCING WHICH MAY BE REQUIRED DUE TO LIFTING OR ERECTION PROCEDURES.

PRECAST MEMBER LAYOUT SHOWN ON DRAWINGS MAY BE REVISED BY PRECAST SUPPLIER. ANY CHANGES MUST NOT ADVERSELY AFFECT ANY ARCHITECTURAL REQUIREMENTS OR ANY OTHER TRADES. ANY CHANGES TO THE LAYOUT MUST BE CLEARLY NOTED ON THE SHOP DRAWINGS FOR APPROVAL.

DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PRESTRESSED MEMBERS SHALL BE REMOVED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BEFORE CONNECTING ELEMENTS ARE WELDED OR GROUTED AND BEFORE PLACEMENT OF TOPPING SLAB.

THE PRESTRESS SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING THAT ALL CAST-IN EMBEDMENTS IN PRESTRESSED MEMBERS, SUCH AS ANCHORS, INSERTS, PLATES, ANGLES, ETC., HAVE SUFFICIENT ANCHORAGE FOR LOADS ENCOUNTERED DURING TRANSPORTATION AND ERECTION OPERATIONS.

PRIOR TO ERECTION THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL PLATES, ANCHORS, INSERTS, CORBELS, LUGS, ETC., TO BE PROVIDED. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT.

VERIFY ALL PRECAST CONCRETE DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ERECTION OF PRECAST CONCRETE ELEMENTS, INCLUDING BRACING, LEVELING, WELDING, BOLTING, ETC. ALL FABRICATION AND ERECTION SHALL COMPLY WITH APPROPRIATE PCI TOLERANCES.

ALL REQUIRED OPENINGS IN THE PRECAST SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED OPENINGS WITH ANY TRADES THAT REQUIRE THEM.

PRECAST MANUFACTURER SHALL PROVIDE ONLY THOSE OPENINGS AND SAW CUTS SHOWN ON THEIR DRAWINGS. ALL OTHER HOLES WILL BE CUT BY THE RESPECTIVE TRADES IN THE FIELD. HOLES WHICH WILL APPARENTLY CUT PRIMARY REINFORCING IN MEMBERS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CUTTING IN THE FIELD. CUTTING THE PRESTRESSED REINFORCING IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OR UNLESS SPECIFICALLY NOTED OTHERWISE.

PRECAST PRODUCTS WILL BE FABRICATED TO TOLERANCES SPECIFIED IN SECTION 5 OF THE PCI MANUAL – 116 "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF PRECAST / PRESTRESSED CONCRETE PRODUCTS".

ALL PRECAST PRODUCTS SHALL BE MANUFACTURED IN A PCI CERTIFIED PLANT.

PRESTRESSING STRAND SHALL BE CERTIFIED TO DEVELOP BOND IN ACCORDANCE WITH ACI 318.

ENGINEER SHALL BE NOTIFIED PRIOR TO ANY PRODUCT REPAIRS. SUCH REPAIRS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ACTION.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-95), AND DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-92).

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60; EXCEPT STIRRUPS, TIES AND INDICATED FIELD-BENT BARS, WHICH SHALL CONFORM TO ASTM A615 GRADE 40.

ALL SLABS SHALL BE REINFORCED AS INDICATED ON THE STRUCTURAL DRAWINGS.

TENSION AND COMPRESSION LAPS IN REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318, CHAPTER 12. THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CONTINUOUS CONCRETE FOOTINGS AND STEMWALLS	
ALL BARS	30 BAR DIAMETERS OR 18" MINIMUM
SLABS-ON-GRADE	
ALL BARS	30 BAR DIAMETERS

ALL HORIZONTAL REINFORCING IN FOOTINGS, WALLS AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE BENT (CORNER) BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP 30 BAR DIAMETERS OR 24" MINIMUM.

CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER:	
BARS LARGER THAN NO. 5:	2"
BARS NO. 5 OR SMALLER:	1 1/2"
C. SLAB ON GRADE:	1 1/2" FROM TOP OF SLAB

FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL. FOLLOWING REMOVAL OF FORM TIES, RECESSES ARE TO BE CAREFULLY FILLED AND POINTED WITH MORTAR.

REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-92. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS. CHAIRS WITH 22 GAGE SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE.

ADHESIVE (EPOXY) ANCHORS:

ALL ADHESIVE (EPOXY) FOR ADHESIVED (EPOXIED) ANCHORS AND/OR REBAR INTO SOLID BASE MATERIALS (SUCH AS CONCRETE, GROUT, STONE, OR GROUT FILLED BLOCK) SHALL BE HILTI HIT HY 150 INJECTION ADHESIVE ANCHOR, ITW RAMSET/RED HEAD EPCON C6 ADHESIVE ANCHORING SYSTEM, OR APPROVED EQUAL. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL ADHESIVE (EPOXY) FOR ADHESIVED (EPOXIED) ANCHORS AND/OR REBAR INTO MATERIAL CONTAINING VOIDS AND HOLES (SUCH AS HOLLOW BLOCK, BRICK WITH HOLES, OR MULTI-WYTHE BRICK WALLS) SHALL BE HILTI HIT HY 20 SYSTEM, ITW RAMSET/REDHEAD EPCON C6 ADHESIVE ANCHORING SYSTEM, OR APPROVED EQUAL. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ANCHOR LENGTHS SHOWN FOR ATTACHMENT TO CONCRETE AND/OR MASONRY ARE REQUIRED EMBEDMENT LENGTHS. THE CONTRACTOR SHALL PROVIDE ANCHORS WITH ADDITIONAL LENGTH TO FACILITATE THE REQUIRED CONNECTION.

SUBMIT PROPOSED ANCHORING SYSTEM TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

STRUCTURAL AND MISCELLANEOUS STEEL:

ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

ALL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS NOTED OTHERWISE.

ALL MISCELLANEOUS STEEL MEMBERS, SUCH AS CHANNELS, ANGLES, FLAT BARS, AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.

ALL RECTANGULAR AND SQUARE STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. FY = 46 KSI.

ALL STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B. FY = 35 KSI.

BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".

ALL BOLTS SHALL BE INSTALLED SO AS TO SHEAR THE SPLINE OFF THE BOLT.

ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS WITH DOUBLE NUTS. PROVIDE FLAT WASHERS BETWEEN NUTS AND BASEPLATE SURFACES. ANCHOR BOLT LENGTHS SHOWN FOR ATTACHMENT TO CONCRETE AND/OR MASONRY ARE REQUIRED EMBEDMENT LENGTHS. THE CONTRACTOR SHALL PROVIDE ANCHOR BOLTS WITH ADDITIONAL BOLT LENGTH TO FACILITATE THE REQUIRED CONNECTION.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.

ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.

HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE MADE FROM STEEL CONFORMING TO ASTM A108 AND MEET THE MECHANICAL PROPERTIES OF TYPE B, AS REQUIRED BY CHAPTER 7 OF AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTORS SHALL BE FREE OF PAINT. WELDING PREQUALIFICATION REQUIRED.

STEEL DECK:

ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.

SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.

PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECK.

ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE LOCATED DIRECTLY ABOVE SUPPORTS.

DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.

POWDER DRIVEN FASTENERS SHALL HAVE A 0.145 INCH SHAFT DIAMETER AND BE EQUIVALENT TO HILTI ENP DECK FASTENERS.

LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):

ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 1986 EDITION (WITH DECEMBER 1989 ADDENDUM).

WALLS SHALL BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" x 18 GAGE STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" x 16 GAGE). PROVIDE BRIDGING AT 4'-0" ON CENTER MAXIMUM FOR LOAD BEARING WALLS AND EXTERIOR WALLS.

PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS UNLESS NOTED OTHERWISE.

LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE LIGHTGAGE STEEL SCHEDULE.

ALL TRACK SHALL BE DEEP LEG, 18 GAGE MINIMUM. TRACK SHALL BE ANCHORED TO THE SLAB WITH 1/2" DIAMETER x 3 1/2" EMBED EXPANSION SLEEVE ANCHORS SPACED AT 4'-0" ON CENTER UNLESS SHOWN OTHERWISE ON PLANS.

MASONRY:

ALL MASONRY UNITS SHALL BE TYPE I WITH A COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA).

F'M = 1500 PSI

MORTAR SHALL BE TYPE S.

GROUT – F'C = 2000 PSI, MINIMUM.

CELLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL IN ACCORDANCE WITH THE UNIFORM BUILDING CODE.

ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID UP TO GRADE.

CELLS CONTAINING EXPANSION ANCHORS SHALL BE GROUTED SOLID.

ALL VERTICAL REBAR SHALL BE IN PLACE AND SECURED WITH REBAR POSITIONERS PRIOR TO GROUTING.

UNLESS OTHERWISE NOTED, MASONRY CELLS SHALL BE GROUTED IN ACCORDANCE WITH THE LOW-LIFT METHOD AS DESCRIBED IN THE UNIFORM BUILDING CODE (MAXIMUM 4 FT LIFTS).

LAP ALL REBAR 48 BAR DIAMETERS OR 24" MINIMUM UNLESS NOTED OTHERWISE.

ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE BENT (CORNER) BARS OF THE SAME SIZE AND A LAP OF 48 BAR DIAMETERS OR 24 INCHES MINIMUM. VERTICAL STEEL SHALL CONTINUE THROUGH BOND BEAMS.

PROVIDE STANDARD TRUSS TYPE JOINT REINFORCING AT 16" ON CENTER (ALTERNATE COURSES). USE PREFABRICATED CORNERS AND TEES AT ALL WALL CORNERS AND INTERSECTIONS RESPECTIVELY.

PROVIDE A SLIDE BEARING CONNECTION FOR STEEL BEAMS BEARING ON MASONRY WALLS UNLESS NOTED OTHERWISE. SEE DETAIL 7/S-311 FOR TYPICAL CONNECTION.

VENEER:

FOR VENEER (5" MAXIMUM IN THICKNESS) ATTACHMENT TO STRUCTURAL MASONRY, PROVIDE ANCHOR TIES SPACED AT 16" ON CENTER HORIZONTALLY AND VERTICALLY. ANCHOR TIES SHALL BE CORROSION RESISTANT AND HAVE A MINIMUM SIZE OF NO. 22 GAGE BY 3/4" IF SHEET METAL OR A MINIMUM SIZE OF NO. 9 IF WIRE.

GLASS CURTAIN WALL SYSTEM:

ALL LATERAL AND GRAVITY SUPPORT FOR THE GLASS CURTAIN WALL SYSTEM SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. SHOP DRAWINGS AND STAMPED CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE ARCHITECT PRIOR TO INSTALLATION.

THE ENGINEER STAMPING THE SHOP DRAWINGS SHALL BE REGISTERED IN THE STATE THAT THE PROJECT IS LOCATED.

THE GLASS CURTAIN WALL SYSTEM SHALL BE LATERALLY SUPPORTED AT ALL FLOORS AND ROOF LEVEL.

LIGHTGAGE STEEL SCHEDULE

DEPTH	GAGE	AREA IN	Ix IN4	Sx IN3	Fy KSI
C 4"	18	0.357	0.892	0.443	33
C 6"	18	0.447	2.316	0.767	33
T 4"	18	0.293	0.666	0.282	33
T 6"	18	0.383	1.750	0.515	33

NOTE: "C" INDICATES STUD, 1-5/8" WIDE FLANGES
"T" INDICATES DEEP LEG TRACK, 1-1/4" WIDE FLANGES

LEGEND

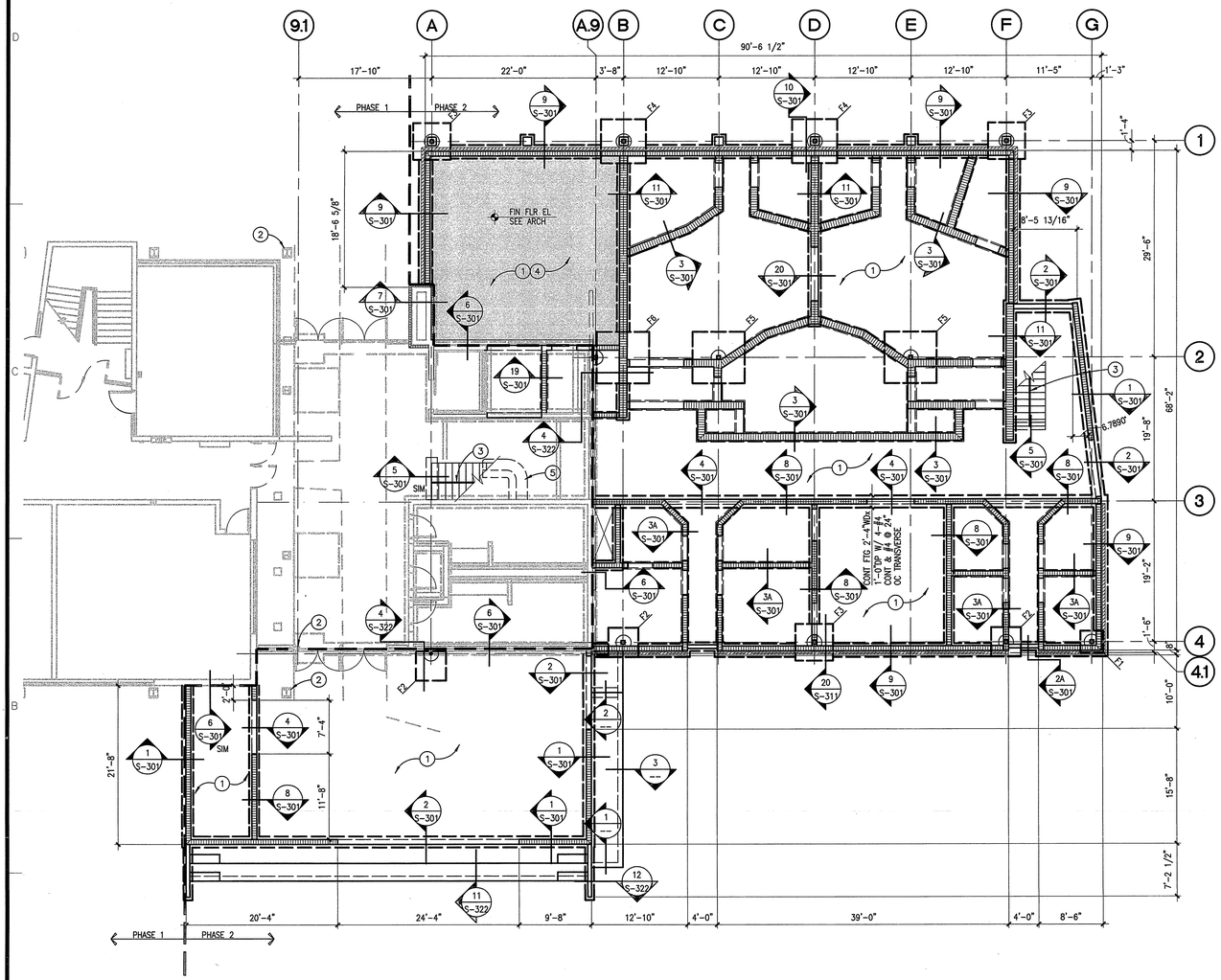
- 1 / S-311 — SECTION DESIGNATION: SECTION CUT AND SHOWN ON THE SAME SHEET
- 1 / XXX — SECTION DESIGNATION: DRAWING THAT SECTION IS SHOWN ON
- 1 — DETAIL NUMBER: DETAIL IS REFERENCED AND SHOWN ON THE SAME SHEET
- 1 / XXX — DETAIL NUMBER: DRAWING THAT DETAIL IS SHOWN ON
- (1) — KEYNOTE
- <1> — BASE PLATE MARKER
- ELEVATION

MATERIAL SYMBOLS

STEEL; CONCRETE, GROUT; EARTH; CMU; BRICK VENEER

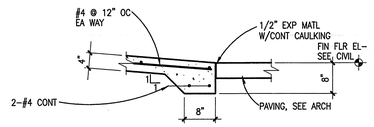
ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KCJ	KEYED CONTROL JOINT
ACI	AMERICAN CONCRETE INSTITUTE	K	KIP (1000 LBS)
ADDL	ADDITIONAL	LAM	LAMINATED
ADJ	ADJACENT	LL	LIVE LOAD
ALT	ALTERNATE	LLBB	LONG LEG BACK TO BACK
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
		LLH	LONG LEG HORIZONTAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LONG	LONGITUDINAL
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	MAINT	MAINTENANCE
		MFR	MANUFACTURER
ANCH	ANCHOR	MK	MARK
AB	ANCHOR BOLT	MAS	MASONRY
APA	AMERICAN PLYWOOD ASSOCIATION	MCJ	MASONRY CONTROL JOINT
APPROX	APPROXIMATE	MO	MASONRY OPENING
ARCH	ARCHITECT	MATL	MATERIAL
ASTM	AMERICAN SOCIETY TESTING MATERIALS	MAX	MAXIMUM
		MSL	MEAN SEA LEVEL
AWS	AMERICAN WELDING SOCIETY	MECH	MECHANICAL
BSMT	BASEMENT	MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
BAL	BALANCE		
BM	BEAM	ML	MICRO-LAMINATED
BRG	BEARING	MIN	MINIM

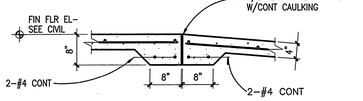


S1 FOUNDATION PLAN
1/8" = 1'-0"

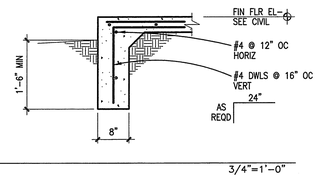
PLAN NORTH



1 TYPICAL RAMP BASE
3/4"=1'-0"



2 TYPICAL RAMP LANDING
3/4"=1'-0"



3
3/4"=1'-0"

GENERAL NOTES

DIMENSIONS ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.

SLAB CONTROL JOINTS SHALL BE PLACED AT 15'-0" ON CENTER MINIMUM. THE AREA OF THE CONTROL JOINT SHALL NOT EXCEED 2:1 RATIO. CONTROL JOINTS SHOULD BE LOCATED AT COLUMN LINES WHERE THE LAYOUT PERMITS. AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS, PROVIDE 2 - #4x3'-0" DIAGONAL TO THE RE-ENTRANT CORNER. SEE DETAIL 15/S-301.

FOR TYPICAL FOUNDATION SECTIONS AND DETAILS, SEE SHEET S-301.

ALL TOP OF FOOTING ELEVATIONS = 98'-0" UNLESS NOTED OTHERWISE.

EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED. SHOULD ANY CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER.

COORDINATE ALL INTERIOR WALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

COORDINATE ALL LOCATIONS OF GROUTED SOLID CMU WITH ARCHITECTURAL DRAWINGS.

ALL CONTINUOUS FOOTINGS ARE 1'-8" WIDE x 1'-0" DEEP REINFORCED WITH 3 - #4 CONT AND #4 AT 48" ON CENTER TRANSVERSE UNLESS NOTED OTHERWISE.

KEYED NOTES

1 4" CONCRETE SLAB REINFORCED WITH #4 @ 18" ON CENTER EACH WAY OVER 4" AGGREGATE BASE COURSE OVER COMPACTED SUBGRADE. FINISH FLOOR ELEVATION 100'-0" = MSLE - 6774.0' UNLESS NOTED OTHERWISE.

2 EXISTING COLUMN

3 W12x40

4 DEPRESSED SLAB, COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.

5 BANCO, COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	3'-0" SQ x 1'-0" DP	3-#5 EW
F2	4'-0" SQ x 1'-0" DP	4-#5 EW
F3	5'-0" SQ x 1'-0" DP	5-#5 EW
F4	6'-0" SQ x 1'-0" DP	6-#5 EW
F5	7'-0" SQ x 1'-4" DP	7-#5 EW
F6	7'-0" SQ x 1'-4" DP	7-#5 EW TOP & BOT

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

4' 4' 12'
0 8' 20'
1/8"=1'-0"

MARK	DATE	DESCRIPTION

ISSUE: FOR CONSTRUCTION
PROJECT NO: 0335P2
CAD DWG FILE: D06192S101
DRAWN BY: SOE
CHECKED BY: GHB
DATE: 11/08/04

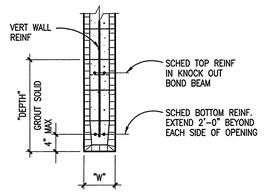
SHEET TITLE
FOUNDATION PLAN

S-101
sheet of sheets

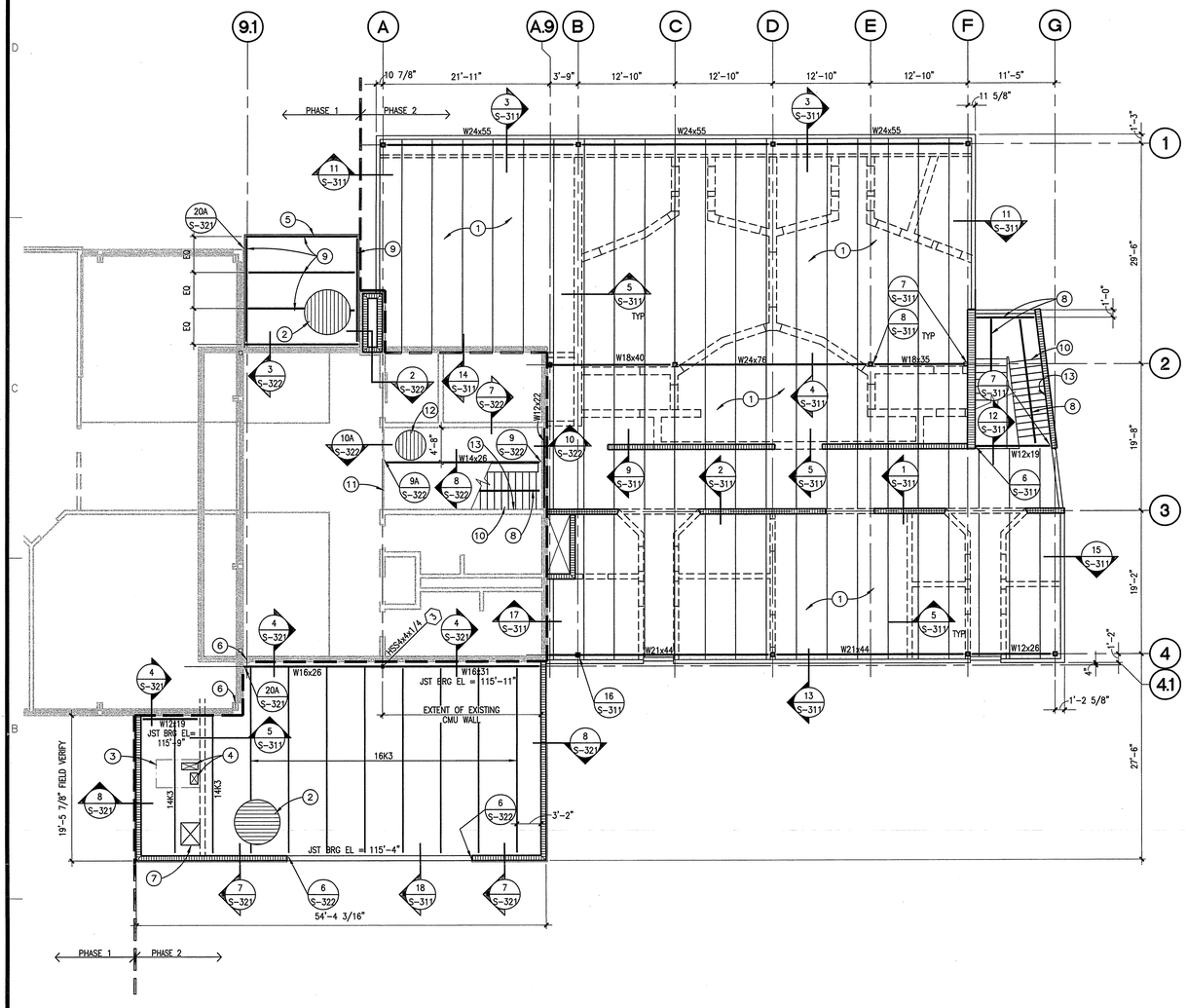
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CMU LINTEL SCHEDULE				
OPENING WIDTH	WIDTH	DEPTH	TOP REINFORCING	BOTTOM REINFORCING
0'-0" – 3'-11"	8", 12"	24"	2–#5	2–#5
4'-8" – 8'-0"	8", 12"	40"	2–#5	2–#5
8'-1" – 12'-0"	8", 12"	56"	2–#5	2–#5

NOTE:
COORDINATE CMU WALL OPENING SIZES WITH ARCHITECTURAL DRAWINGS.



CMU LINTEL SCHEDULE AND TYPICAL DETAIL



S1 FLOOR FRAMING PLAN AND LOW ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

DIMENSIONS ARE TO FACE OF MASONRY OR STUD, UNLESS NOTED OTHERWISE.

EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED. SHOULD ANY CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER.

ALL EXISTING STRUCTURAL COMPONENTS SHALL BE OBSERVED FOR STRUCTURAL ADEQUACY PRIOR TO MODIFICATIONS.

JOISTS ARE SPACED AT 5'-0" ON CENTER UNLESS NOTED OTHERWISE.

PROVIDE JOIST BRIDGING PER THE 40th EDITION OF SJI SPECIFICATIONS AND OSHA REQUIREMENTS.

NOTE TO ERECTOR: LATERAL STABILITY OF THE STEEL FRAME IS DEPENDENT UPON THE CMU WALLS. THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.9 OF THE AISC CODE OF STANDARD PRACTICES.

○ KEYED NOTES

1 8" PRESTRESSED HOLLOW CORE SLAB WITH 2" TOPPING REINFORCED WITH 6x6–W1.4xW1.4. PROVIDE WWF IN FLAT SHEETS ONLY. SLOPE TOPPING TO DRAINS, COORDINATE WITH ARCHITECT. MINIMUM TOPPING DEPTH SHALL EQUAL 1" AT DRAINS. FINISH FLOOR ELEVATION – 113'–4", UNLESS NOTED OTHERWISE.

2 1 1/2", TYPE "B", 20 GAGE, PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 7 – 5/8"ø PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8"ø PUDDLE WELDS AT 12" ON CENTER. ATTACH SIDELAPS WITH #12 TEK SCREW AT 12" ON CENTER.

3 755# MECHANICAL UNIT. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS.

4 MECHANICAL OPENING. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS. SEE 17/S–321 FOR TYPICAL FRAMING.

5 CANOPY

6 EXISTING COLUMN

7 ROOF HATCH. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS. SEE 1/6X–321 AND 17/S–321 FOR TYPICAL FRAMING.

8 W12x40

9 HSS10x6x3/8

10 PRECAST CONCRETE TREADS AND PAN, TYPICAL.

11 EXISTING W12x14 STEEL BEAM. FIELD VERIFY EXACT LOCATION.

12 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6–W2.1xW2.1 WWF IN FLAT SHEETS ONLY OVER 1 1/2", 20 GAGE, TYPE VLI, GALVANIZED DECK (TOTAL SLAB THICKNESS = 5"). ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 5 – 5/8"ø PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8"ø PUDDLE WELDS AT 12" ON CENTER. FINISH FLOOR ELEVATION = SEE ARCHITECTURAL.

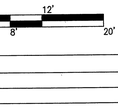
13 PROVIDE L4x4x1/4 TREAD SUPPORT, TYPICAL AT STAIR CMU WALLS. ATTACH TO CMU WITH 1/2"ø x 3 1/2" EXPANSION ANCHORS AT 24" ON CENTER INTO GROUTED CELLS.

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Architect Engineer



BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

4' 4' 12'
0 8' 20'
1/8"=1'-0"

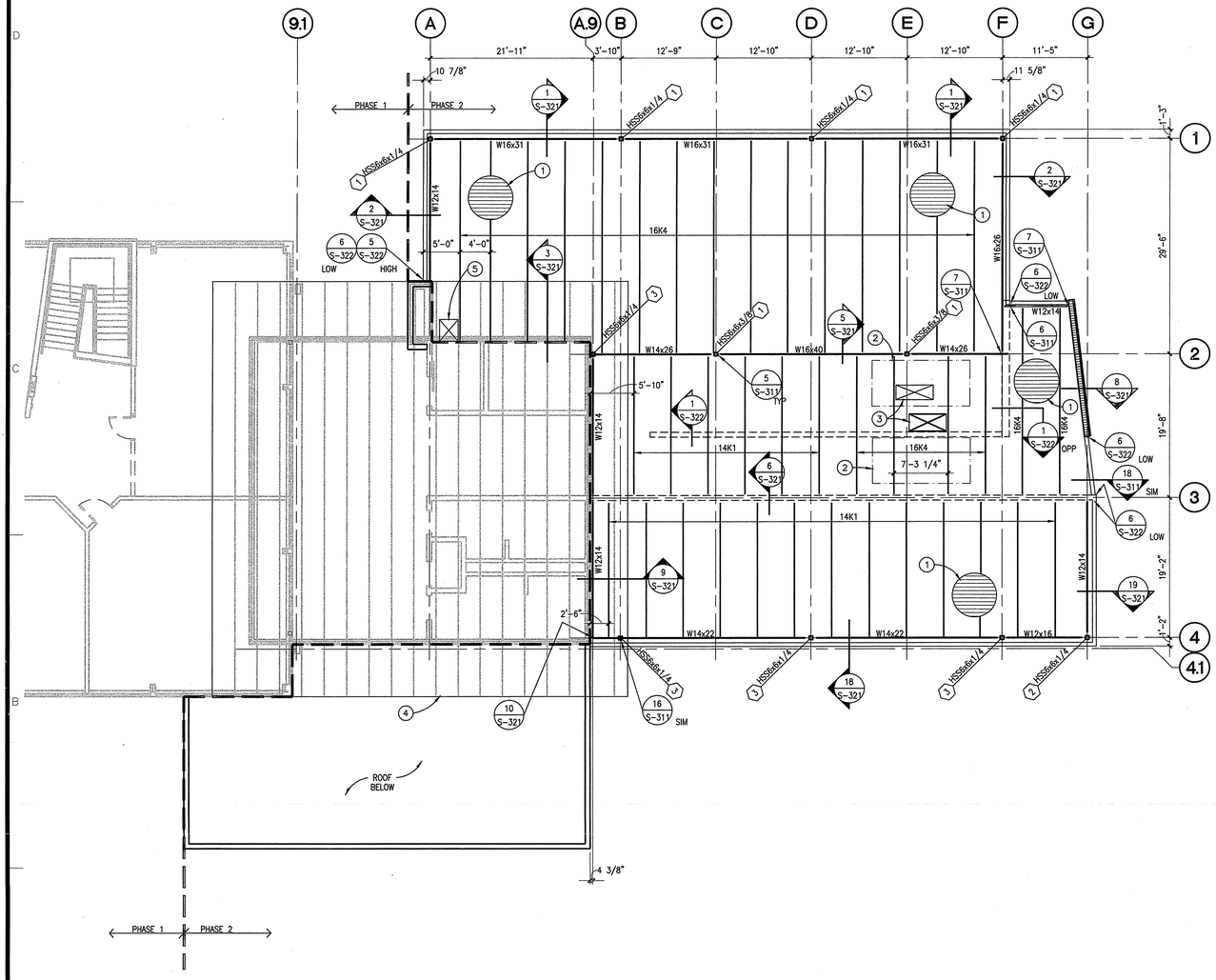
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ISSUE: FOR CONSTRUCTION
PROJECT NO: 0335P2
CAD DWG FILE: D06192S102
DRAWN BY: SOE
CHECKED BY: GHB
DATE: 11/08/04

SHEET TITLE

FLOOR FRAMING PLAN AND LOW ROOF FRAMING PLAN

S-102
sheet of sheets



PHASE 1 PHASE 2

S1 ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

DIMENSIONS ARE TO FACE OF MASONRY OR STUD, UNLESS NOTED OTHERWISE.

EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED. SHOULD ANY CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER.

ALL EXISTING STRUCTURAL COMPONENTS SHALL BE OBSERVED FOR STRUCTURAL ADEQUACY PRIOR TO MODIFICATIONS.

JOISTS ARE SPACED AT 5'-0" ON CENTER UNLESS NOTED OTHERWISE.

PROVIDE JOIST BRIDGING PER THE 40th EDITION OF SJI SPECIFICATIONS AND OSHA REQUIREMENTS.

FOR TYPICAL FRAMING SECTIONS AND DETAILS, SEE SHEET S-321.

ROOF JOIST BEARING ELEVATION = 125'-3" UNLESS NOTED OTHERWISE.

NOTE TO ERECTOR: LATERAL STABILITY OF THE STEEL FRAME IS DEPENDENT UPON THE CMU WALLS. THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.9 OF THE AISC CODE OF STANDARD PRACTICES.

○ KEYED NOTES

1 1 1/2" GALVANIZED TYPE "B", 20 GAGE, METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 5 – 5/8" PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8"ø PUDDLE WELDS AT 12" ON CENTER. ATTACH SIDELAPS WITH #10 TEK SCREW AT 12" ON CENTER.

2 4300# MECHANICAL UNIT. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS.

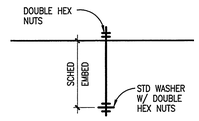
3 MECHANICAL OPENING. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS. SEE 16/S-321 AND 17/S-321 FOR TYPICAL FRAMING.

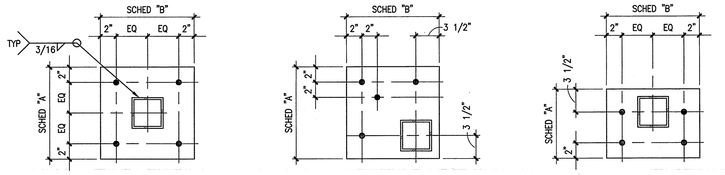
4 LINE OF EXISTING HIGH ROOF ABOVE

5 ROOF HATCH. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS. SEE 17/S-321 FOR TYPICAL FRAMING.

BASE PLATE SCHEDULE

MARK	TYPE	BASE PLATE SIZE "T"x"A"x"B"	ANCHOR BOLTS F1554 ANCHOR BOLTS
1	A	PL 1"x16"x1'-4"	4 – 1"øx9"
2	B	PL 1"x16"x1'-4"	4 – 1"øx9"
3	C	PL 1"x12"x1'-4"	4 – 1"øx9"





TYPE A TYPE B TYPE C

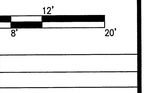
1 BASE PLATE SCHEDULE AND TYPICAL DETAILS
1 1/2"=1'-0"

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Architect Engineer



BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

1/8"=1'-0"

MARK	DATE	DESCRIPTION

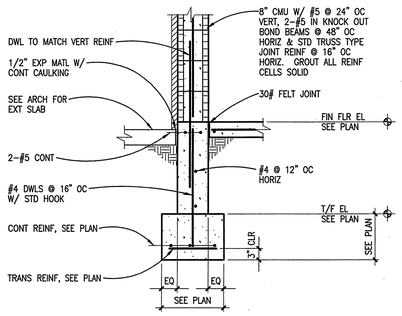
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PROJECT NO: 0335P2
CAD DWG FILE: D06192S103
DRAWN BY: SOE
CHECKED BY: GHB
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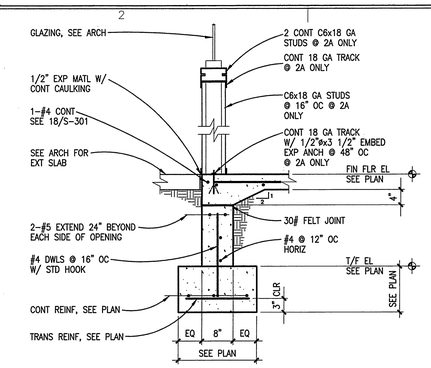
ROOF FRAMING PLAN

S-103
sheet of sheets

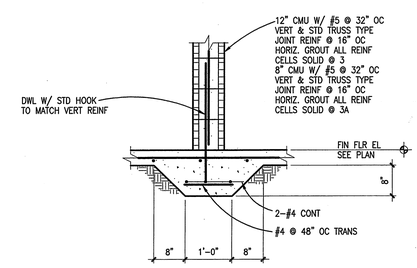
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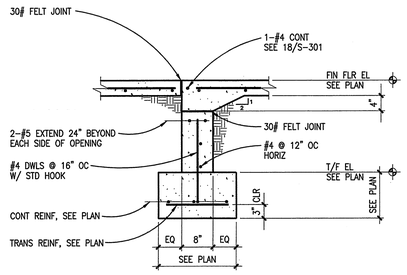
1 3/4"=1'-0"



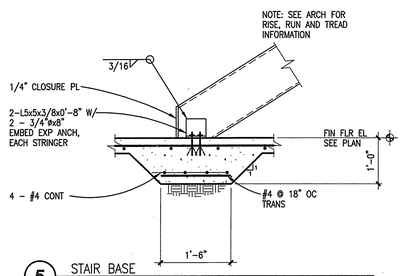
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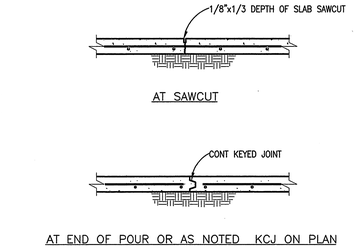
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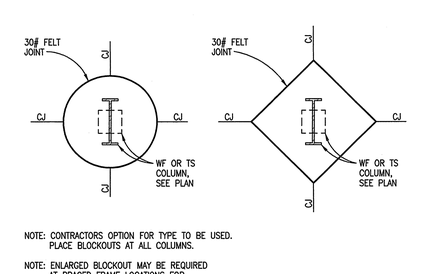
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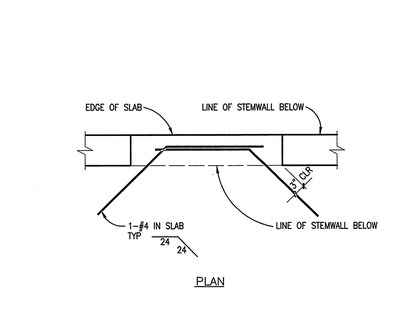
5 STAIR BASE 3/4"=1'-0"



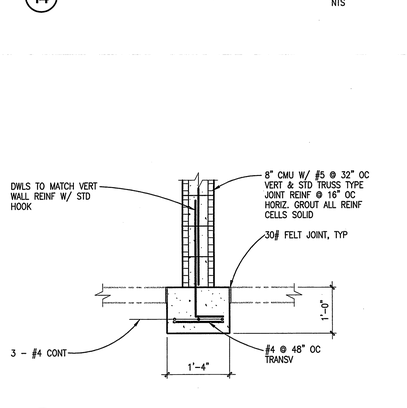
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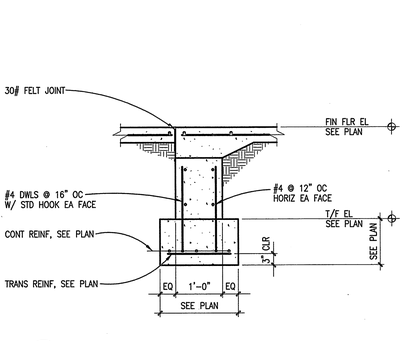
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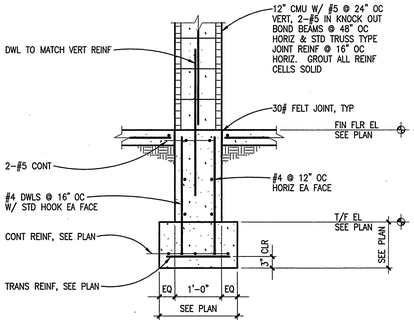
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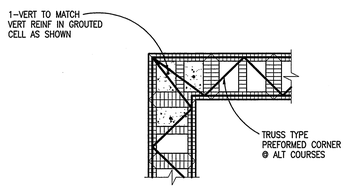
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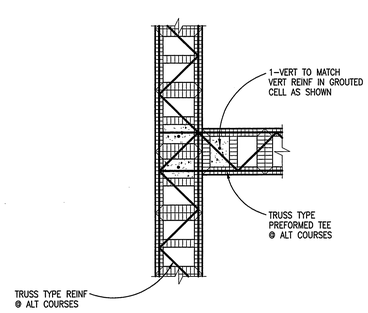
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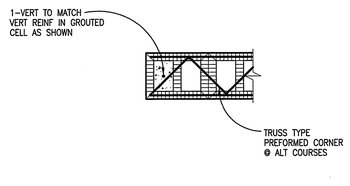
11 3/4"=1'-0"



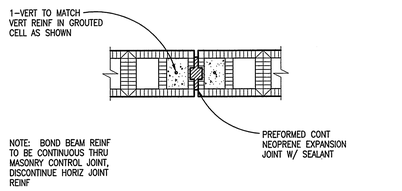
12 PLAN AT CMU CORNER NTS



13 PLAN AT CMU TEE 3/4"=1'-0"



14 PLAN AT END OF CMU WALL NTS



15 TYPICAL MASONRY CONTROL JOINT (MCJ) NTS

16 TYPICAL CONSTRUCTION JOINT 3/4"=1'-0"

NOTE: CONTRACTORS OPTION FOR TYPE TO BE USED. PLACE BLOCKOUTS AT ALL COLUMNS.

NOTE: ENLARGED BLOCKOUT MAY BE REQUIRED AT BRACED FRAME LOCATIONS FOR GUSSET PLATE CLEARANCE.

17 TYPICAL COLUMN BLOCKOUT 3/4"=1'-0"

PLAN

18 TYPICAL SLAB REINFORCING @ DOORS & OPENINGS 3/4"=1'-0"

19 3/4"=1'-0"

20 3/4"=1'-0"

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Architect Engineer

REGISTERED PROFESSIONAL ENGINEER 11786

BENILDUS HALL
PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

1' 0 1' 3'
3/4"=1'-0"

MARK	DATE	DESCRIPTION

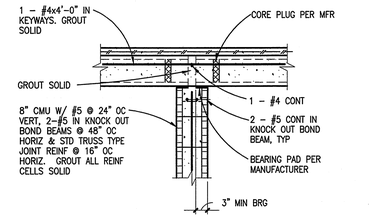
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DRAWN BY: SOE
CHECKED BY: GHB
DATE: 11/08/04

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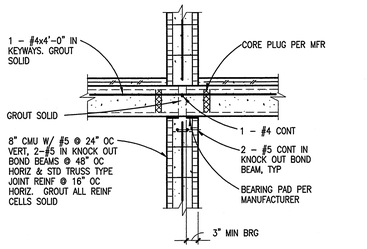
FOUNDATION SECTIONS AND DETAILS

S-301
sheet of sheets

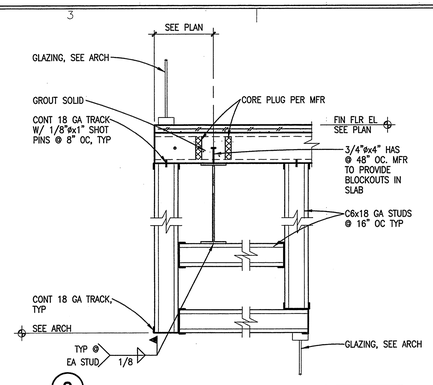
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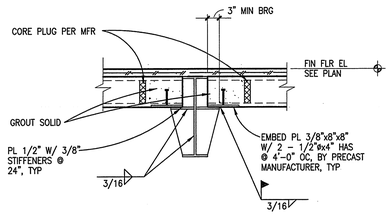
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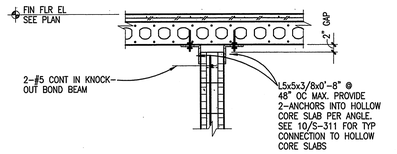
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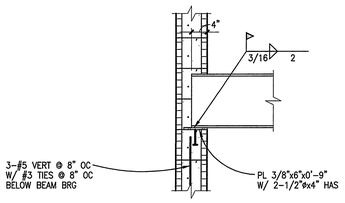
3 3/4"=1'-0"



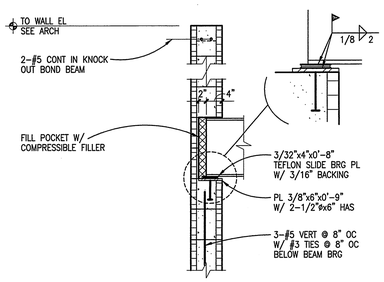
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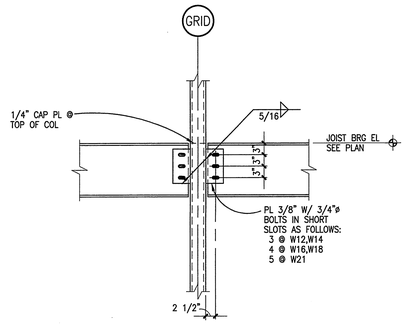
5 3/4"=1'-0"



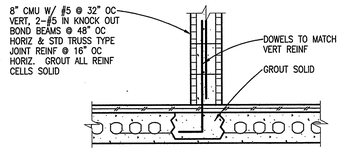
6 SPECIAL BEAM TO CMU CONNECTION
3/4"=1'-0"



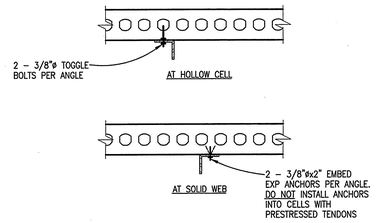
7 TYPICAL BEAM TO CMU CONNECTION
3/4"=1'-0"



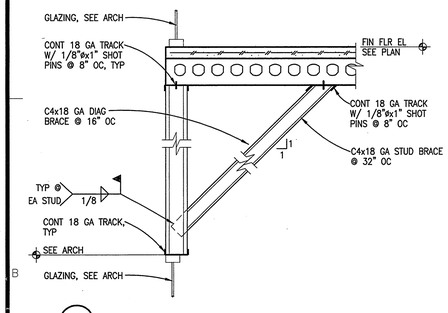
8 3/4"=1'-0"



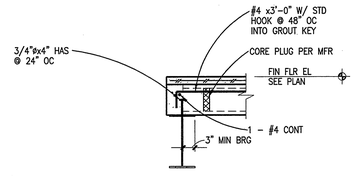
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10 TYPICAL ANCHOR CONNECTION TO HOLLOW CORE SLABS
3/4"=1'-0"

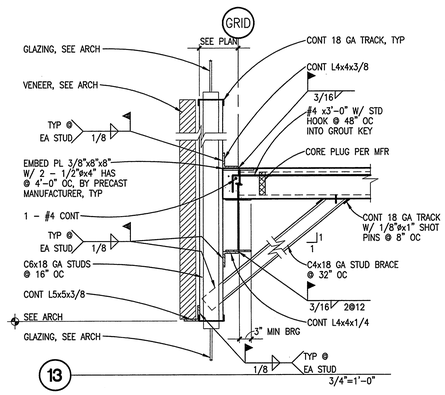


11 3/4"=1'-0"

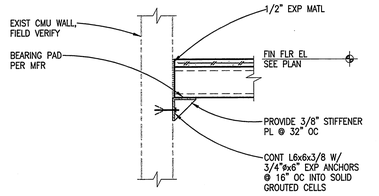


NOTE:
COORDINATE GUARDRAIL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS

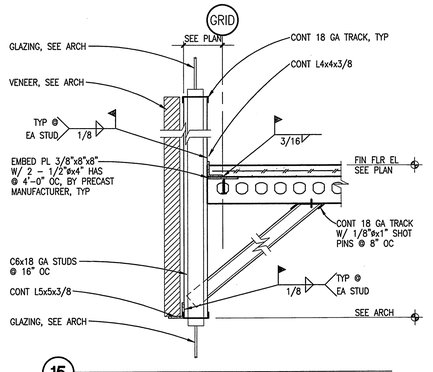
12 3/4"=1'-0"



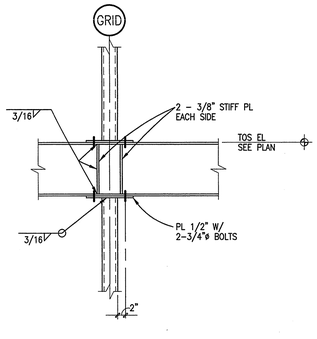
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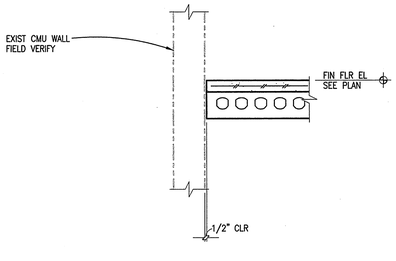
14 3/4"=1'-0"



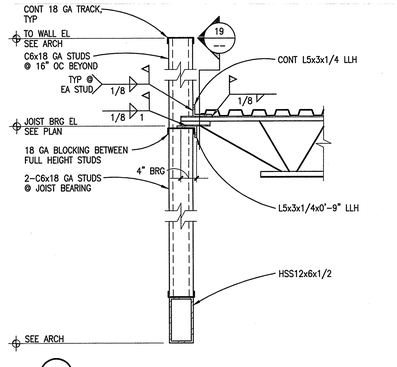
15 3/4"=1'-0"



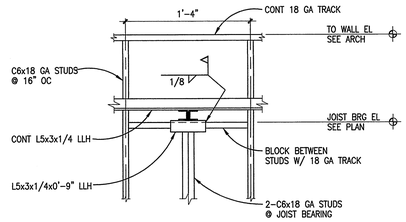
16 3/4"=1'-0"



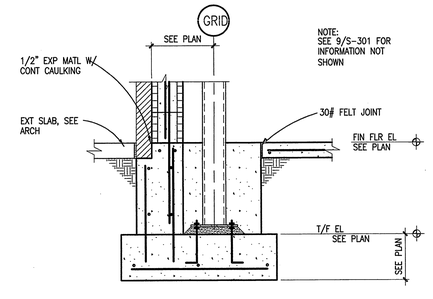
17 3/4"=1'-0"



18 3/4"=1'-0"



19 NTS



20 3/4"=1'-0"

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

1' 0 1' 3'
3/4"=1'-0"

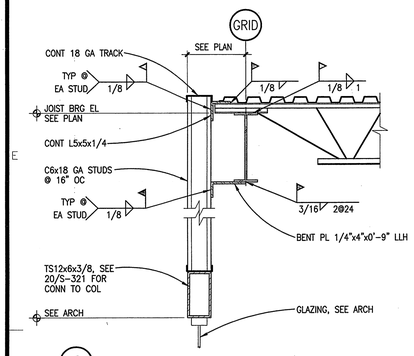
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CAD DWG FILE:	D06192S311
DRAWN BY:	SOE
CHECKED BY:	GHB
DATE:	11/08/04

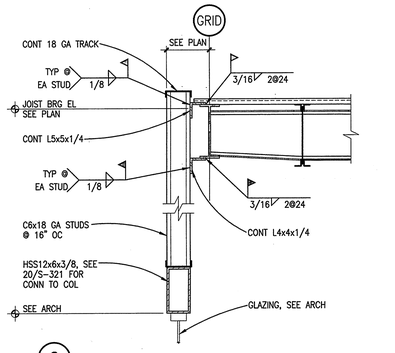
SHEET TITLE

FLOOR FRAMING SECTIONS AND DETAILS

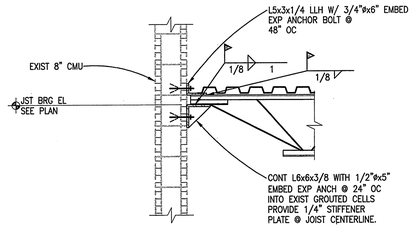
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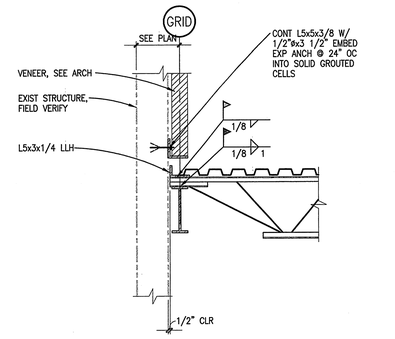
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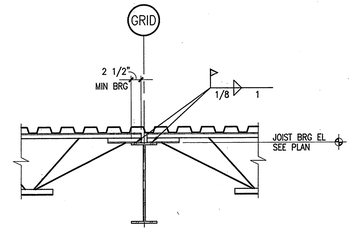
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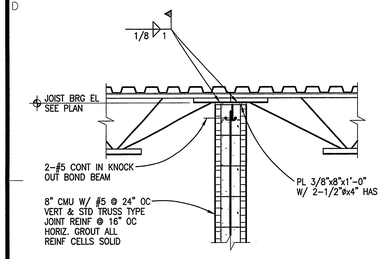
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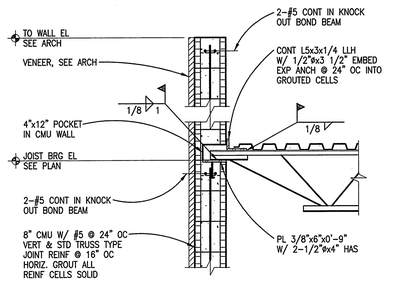
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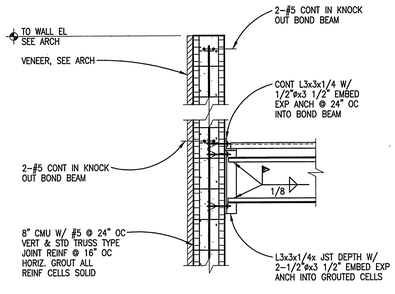
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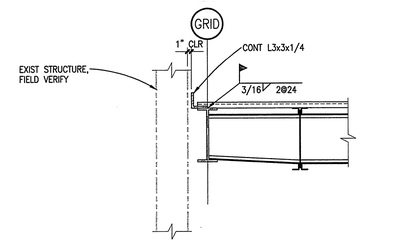
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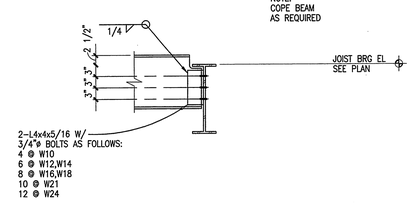
7 3/4"=1'-0"



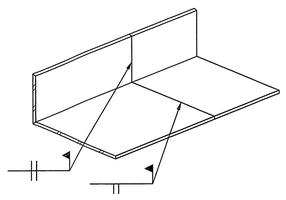
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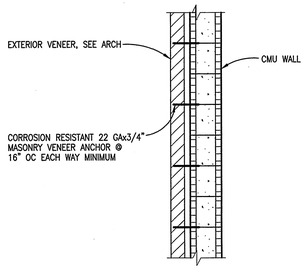
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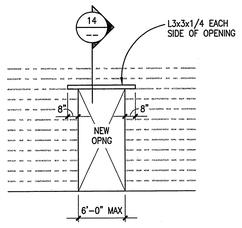
10 3/4"=1'-0"



11 TYPICAL PERIMETER ANGLE SPLICE NTS



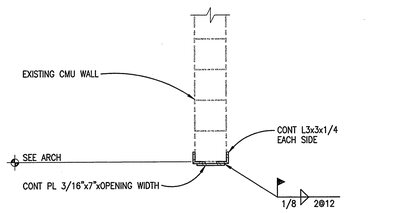
12 TYPICAL VENEER CONNECTION TO CMU WALL 3/4"=1'-0"



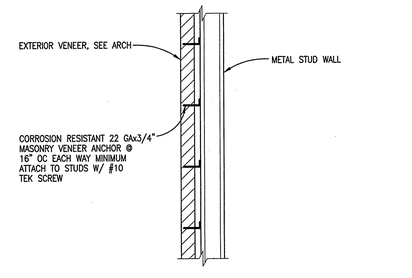
CONSTRUCTION SEQUENCE NOTES

1 ROUTE OUT MORTAR JOINT ON ONE SIDE OF WALL TO HALF WALL DEPTH. INSERT FIRST ANGLE.
2 ROUTE OUT REMAINING MORTAR JOINT ON OPPOSITE SIDE OF WALL. INSERT SECOND ANGLE.
3 SAWCUT CMU AT JAMBS OF OPENING AND REMOVE.
4 ATTACH CLOSURE PLATE.

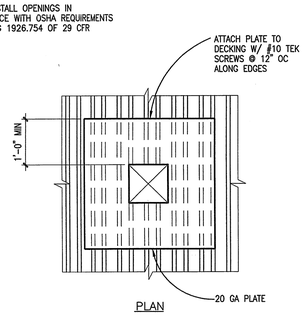
13 TYPICAL OPENING IN EXIST CMU WALL NTS



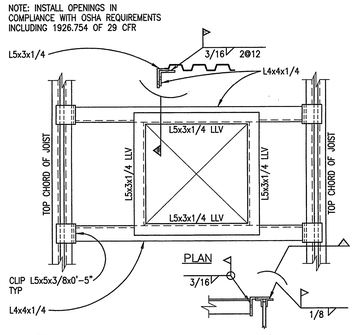
14 3/4"=1'-0"



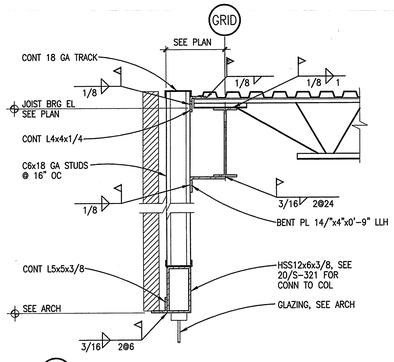
15 TYPICAL VENEER CONNECTION TO STUD WALL 3/4"=1'-0"



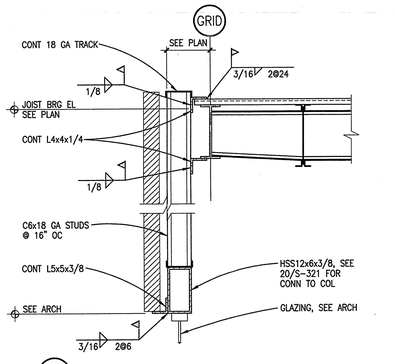
16 TYPICAL ROOF OPENING FOR OPENINGS 12" AND SMALLER NTS



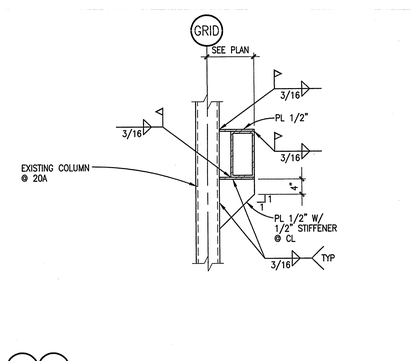
17 TYPICAL ROOF OPENING FOR OPENINGS LARGER THAN 12" NTS



18 3/4"=1'-0"



19 3/4"=1'-0"



20 20A 3/4"=1'-0"

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Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

1' 0 1' 3'
3/4"=1'-0"

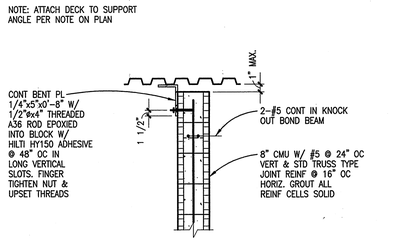
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CAD DWG FILE:	D06192S321
DRAWN BY:	SOE
CHECKED BY:	GHB
DATE:	11/08/04

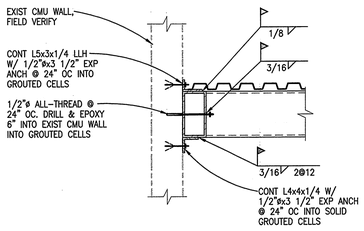
SHEET TITLE

FRAMING SECTIONS AND DETAILS

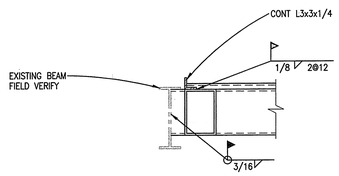
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sheet of sheets



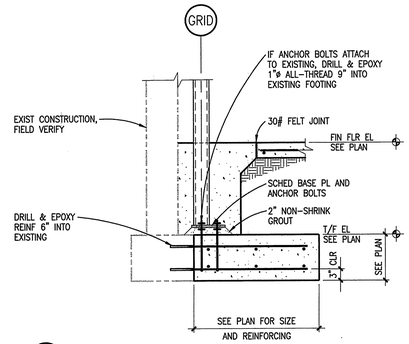
1 3/4"=1'-0"



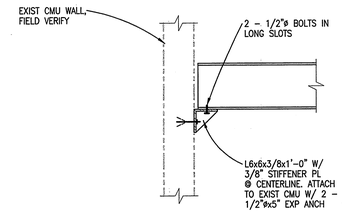
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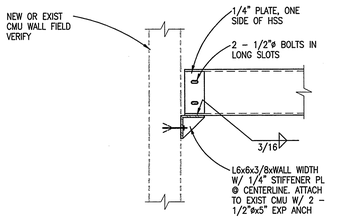
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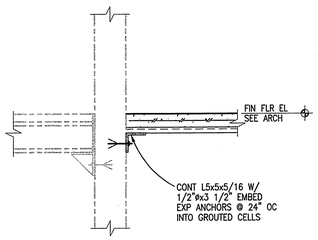
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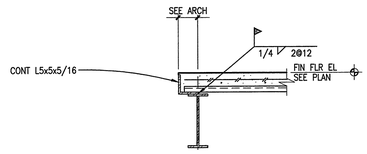
5 TYPICAL WF CONNECTION TO CMU WALL 3/4"=1'-0"



6 TYPICAL HHS CONNECTION TO CMU WALL 3/4"=1'-0"

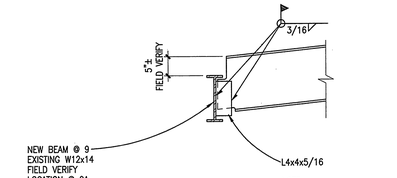


7 3/4"=1'-0"



NOTE:
COORDINATE GUARDRAIL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS

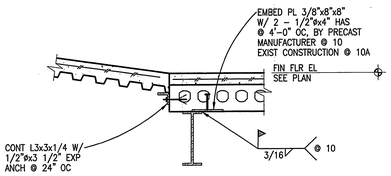
8 3/4"=1'-0"



NOTE:
COPE NEW BEAM AS REQUIRED

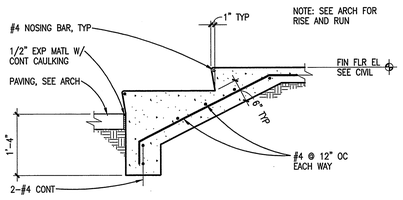
NOTE:
CONNECTING BEAM SLOPES DOWN AT 9

9 9A 3/4"=1'-0"

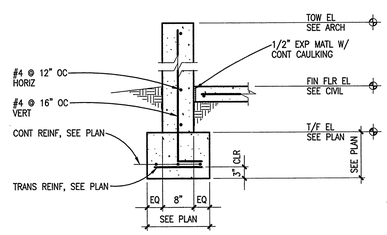


NOTE:
CONCRETE ON METAL DECK SLOPES DOWN AT 10

10 10A 3/4"=1'-0"



11 3/4"=1'-0"



12 3/4"=1'-0"

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PHONE (505) 344-4080 • FAX (505) 343-8759
Architect Engineer

GREGORY H. BRADLEY 11758 REGISTERED PROFESSIONAL ENGINEER

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
SANTA FE, NM

1' 0 1' 3'
3/4"=1'-0"

MARK	DATE	DESCRIPTION

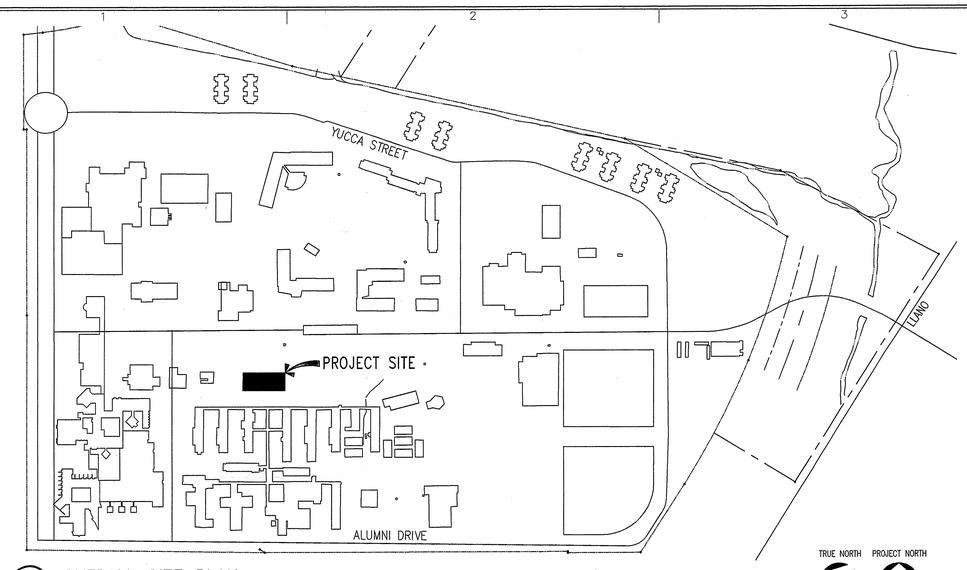
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CAD DWG FILE: D06192S322
DRAWN BY: SOE
CHECKED BY: GHB
DATE: 11/08/04

SHEET TITLE

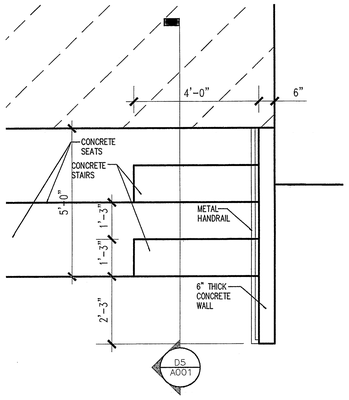
FRAMING SECTIONS AND DETAILS

S-322
sheet of sheets

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D1 OVERALL SITE PLAN
NOT TO SCALE



GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF FINISH FROM PARTITIONS & FURRED WALLS & TO FACE OF MASONRY

B. REFER TO PARTITION, DOOR AND WINDOW SCHEDULES FOR DIMENSIONS OF SCHEDULED ITEMS

C. 4" TYP JAMB OFFSET FOR ALL DOORS UNLESS OTHERWISE NOTED

D. REFER TO G101 CODE DWGS FOR GRAPHIC REPRESENTATION OF FIRE RESISTANT RATED WALLS

E. GENERAL CONTRACTOR & SUBCONTRACTORS TO COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL & ELECTRICAL ALL EXIST CONDITIONS NOT NOTED ON DWGS

F. CONTRACTOR SHALL VERIFY ALL DIMENSIONS + REPORT ANY DISCREPANCIES TO THE ARCHITECT

LEGEND

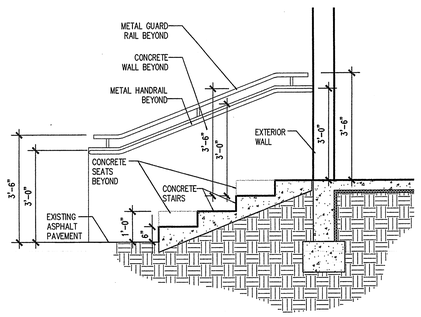
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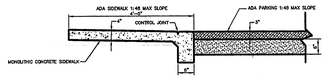
8 H.C. SPACES
20 BICYCLE SPACES
4 CAR SPACE FOR EACH CLASSROOM OR 1 PER 250 S.F.:
27 ROOM X 4 = 108 SPACES
18,900 S.F. / 250 S.F. = 76 SPACES

ACTUAL:
8 H.C. SPACES
109 PARKING SPACES
117 TOTAL SPACES PROVIDED

PROPERTY SIZE: 90 ACRES
PHASE 2 SIZE: .002 ACRES
USED: .02% OF TOTAL SITE, 60% MAX ALLOWED

EXISTING TREE
NEW ENTRY
LIGHT, WALL MOUNTED
LIGHT, POLE MOUNTED, EXISTING

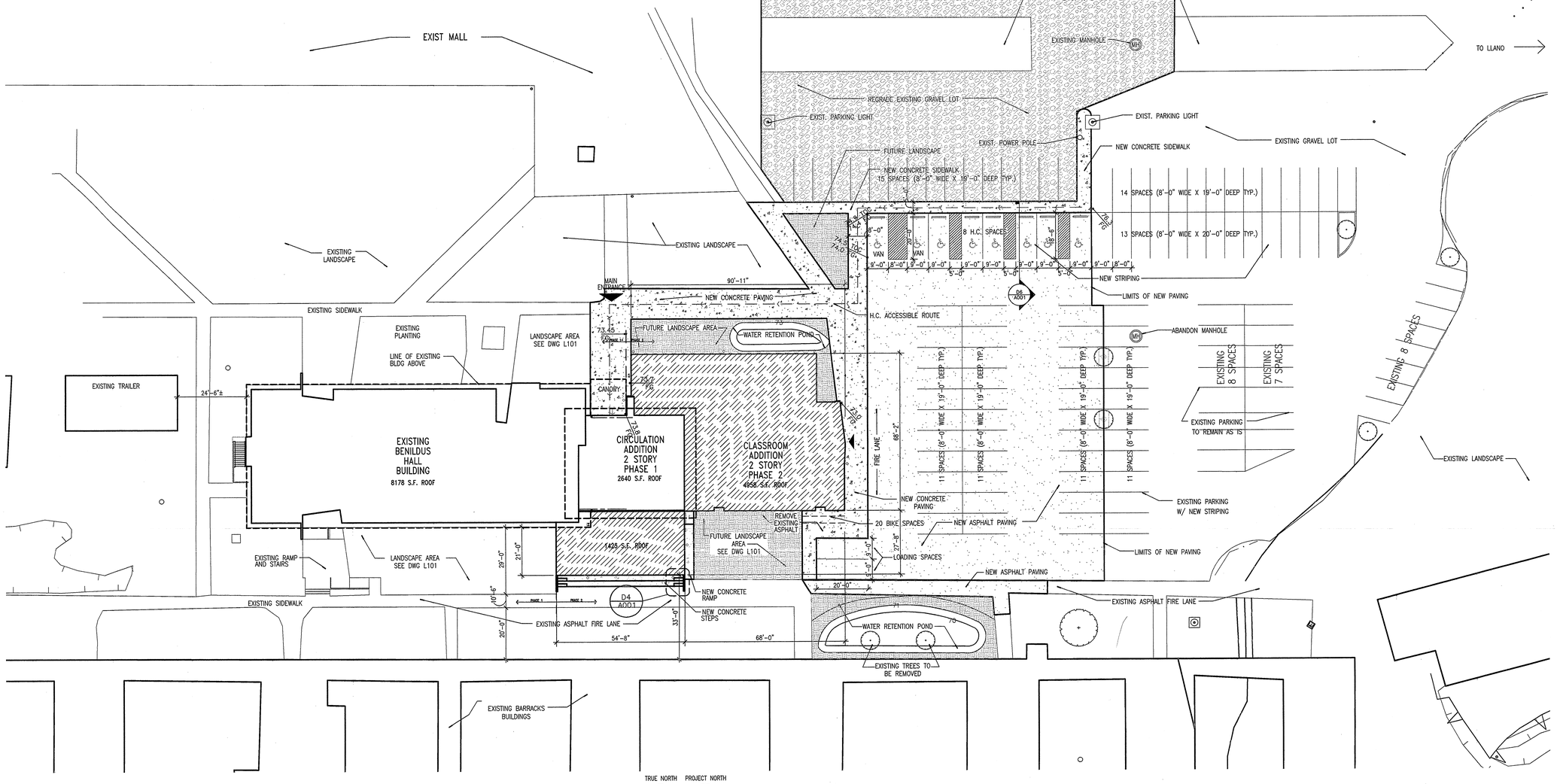




D4 STAIR PLAN
1/2" = 1'-0"

D5 STAIR SECTION
1/2" = 1'-0"

D6 PARKING/SIDEWALK SECTION TYP.
1/2" = 1'-0"



A1 SITE PLAN
SCALE: 1"=20'

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Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335P1-A001.DWG
DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

SHEET TITLE
SITE PLAN

A001
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GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF FINISH FROM PARTITIONS & FURRED WALLS & TO FACE OF MASONRY

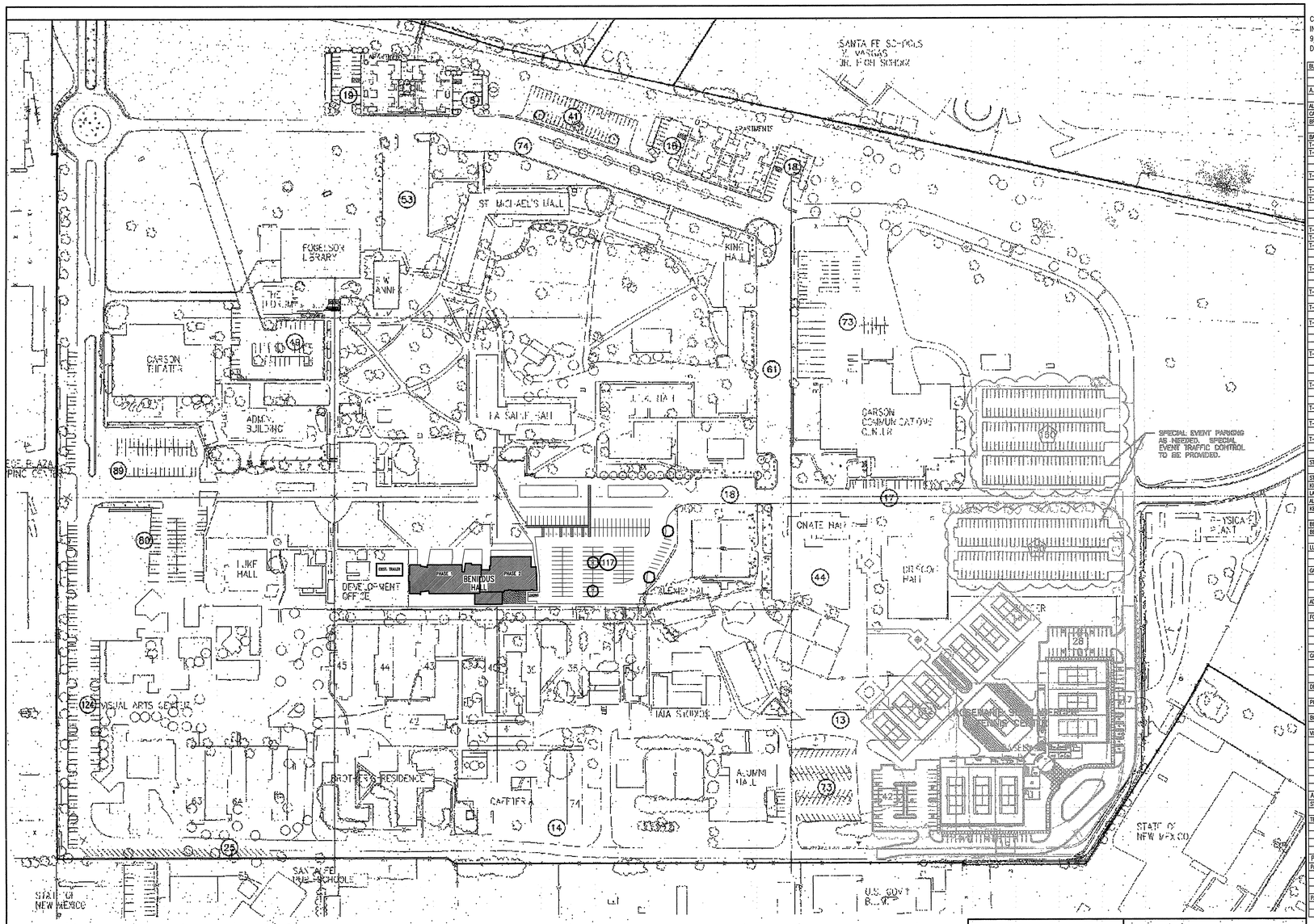
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D. REFER TO G101 CODE DWGS FOR GRAPHIC REPRESENTATION OF FIRE RESISANT RATED WALLS

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F. CONTRACTOR SHALL VERIFY ALL DIMENSIONS + REPORT ANY DISCREPANCIES TO THE ARCHITECT



EXISTING PARKING DATA PROVIDED BY OTHERS

COLLEGE OF SANTA FE
INVENTORY OF SPACE AND PARKING
9/15/2004
DCSW Project # 0335 – Benildus Hall

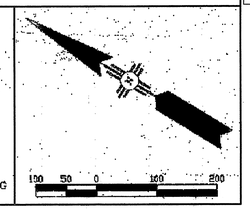
BUILDING	YEAR BUILT	AREA	USE	QTY	PARKING REQUIRED CATEGORY	RATE	PARKING PROVIDED SPACES REQ'	PRESENT	PROPOSED
A. EXISTING BUILDINGS									
ALUMNI HALL	PRE-1962	11742	ASSEMBLY	1			(pre-1962)	73	73
CAFETERIA	PRE-1962	17830	DINING	1			(pre-1962)	29	29
BROTHERS RESIDENCE	PRE-1962		RESIDENCE	15			(pre-1962)	13	13
BARRACKS								185	185
T-25 (ONATE HALL)	PRE-1962	6550	STORAGE	2			(pre-1962)		
T-37 (IAIA)	PRE-1962	4500	STUDIOS	2			(pre-1962)		
			OFFICES	2					
T-38 (IAIA STUDIO)	PRE-1962	4980	STUDIOS	1			(pre-1962)		
			OFFICES	3					
T-39 (MUSIC)	PRE-1962	2700					(pre-1962)		
T-40		4980	CLASSROOMS	2					
			OFFICES	5					
			STORAGE	4					
T-41		2568	STORAGE	1					
T-42 (PHYSICAL PLANT)		4980	STORAGE	2					
T-43 (GEP)	PRE-1962	4980	OFFICES	7			(pre-1962)		
			CONFERENCE	1					
			APARTMENT	1					
T-44 (CAD)	PRE-1962	4980	OFFICES	8			(pre-1962)		
			CONFERENCE	1					
			LOUNGE	1					
T-45 (BUS ADMIN/PR)	PRE-1962	4980	OFFICES	15			(pre-1962)		
			STUDIO	1					
T-46		4980	CLASSROOM	1			(pre-1962)		
			OFFICES	14					
T-47 (SOCIAL SCIENCES)	PRE-1962	4980	OFFICES	5			(pre-1962)		
			CLASSROOMS	2					
			STORAGE	2					
			WOODSHOP	1					
T-48 (ART DEPT)	PRE-1962	4980	OFFICES	8			(pre-1962)		
			STORAGE	1					
			CONFERENCE	1					
			STUDIOS	2					
T-63 (PHOTOGRAPHY)	PRE-1962	4980	DARKROOMS	5			(pre-1962)		
			CLASSROOM	1					
			STUDIO	1					
T-64 (ART STUDIOS)	PRE-1962	5100	WOODSHOP	1			(pre-1962)		
			STUDIOS	3					
T-65 (IAIA STUDIOS)	PRE-1962	4980	OFFICES	5			(pre-1962)		
			CONFERENCE	1					
T-66 (ART STUDIOS)	PRE-1962	2700	STORAGE	2			(pre-1962)		
			STUDIOS	3					
ST MICHAELS CHAPEL	PRE-1962	2550					(pre-1962)		
ST MIKES HALL	1964	30310	HOUSING	69	BOARDING	.7/RM	48	63	63
KING HALL	1967	46109	HOUSING	154	BOARDING	.7/RM	108	118	118
LA SALLE HALL	PRE-1962	24764	HOUSING	64			(pre-1962)	50	50
ALEXIS HALL	1964	14844	HOUSING	42	BOARDING	.7/RM	29	22	22
KENNEDY HALL	1962	25295	HOUSING	67	BOARDING	.7/RM	47	50	50
BENILDUS HALL 1	1963	16280	CLASSROOMS	18	public	1/250	65	63	63
BENILDUS HALL 2	2004	11200	MUSIC				51	54	54
LUKE HALL	1976	9500	OFFICES	20	OFFICE	1/350	27	89	89
		16677	CLASSROOMS	12	PUBLIC	1/250	67		
GARSON THEATER	PRE-1962	32628	THEATRE	1			(pre-1962)	82	82
			CLASSROOMS						
			OFFICES						
ADMINISTRATION BLDG.	PRE-1962	8680	OFFICES				(pre-1962)	20	20
FOGELSON LIBRARY									
LIBRARY	1967	45573	LIBRARY		LIBRARY	1/250	182	54	54
FORUM	1967	7440	LECTURE		PUBLIC	1/250	30		
SW ANNEX	1967	5444	CONFERENCE		PUBLIC	1/250	22		
GARSON COMMUN. CTR.	1991	5000	CLASSROOMS		PUBLIC	1/250	20	93	93
		9200	OFFICES		OFFICE	1/350	26		
		35000	STUDIOS		INDUSTRIAL	1/500	70		
DRISCOLL FITNESS CENTER	1993	22200				30% OF OCCUP	50	54	54
PHYSICAL PLANT	PRE-1962	6000					(pre-1962)	34	34
BOOKSTORE	1994	2912			PUBLIC	1/250	12	13	13
VISUAL ARTS CENTER	1997								
SANTA FE ARTS INSTITUTE		18000			INDUSTRIAL	1/500	36		36
PHOTOGRAPHY CENTER		12000			PUBLIC	1/250	48		48
LECTURE		2900			PUBLIC	1/250	12		12
ART HISTORY CENTER		9000			PUBLIC	1/250	36		36
TISHMAN STUDIOS		8500			INDUSTRIAL	1/500	17		17
	TOTAL	50400							
APARTMENTS									
STUDENT APARTMENTS	1998	15000	HOUSING	48	MULTIFAMILY	1.5/UNI	72		72
TENNIS CENTER							105		105
TOTAL							1180	1431	1485
PARKING RECAP									
PARKING REQUIRED CAMPUS-WIDE			EXISTING				1129		
			THIS PROJECT				51		
			TOTAL				1180		
PARKING PROVIDED			EXISTING				1431		
			THIS PROJECT				54		
			TOTAL				1485		

LEGEND

(32) EXISTING PARKING

17 PROPOSED PERMANENT PARKING

78 SPECIAL EVENT PARKING



A1 PARKING PLAN
SCALE: 1"=100'

TRUE NORTH PROJECT NORTH

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

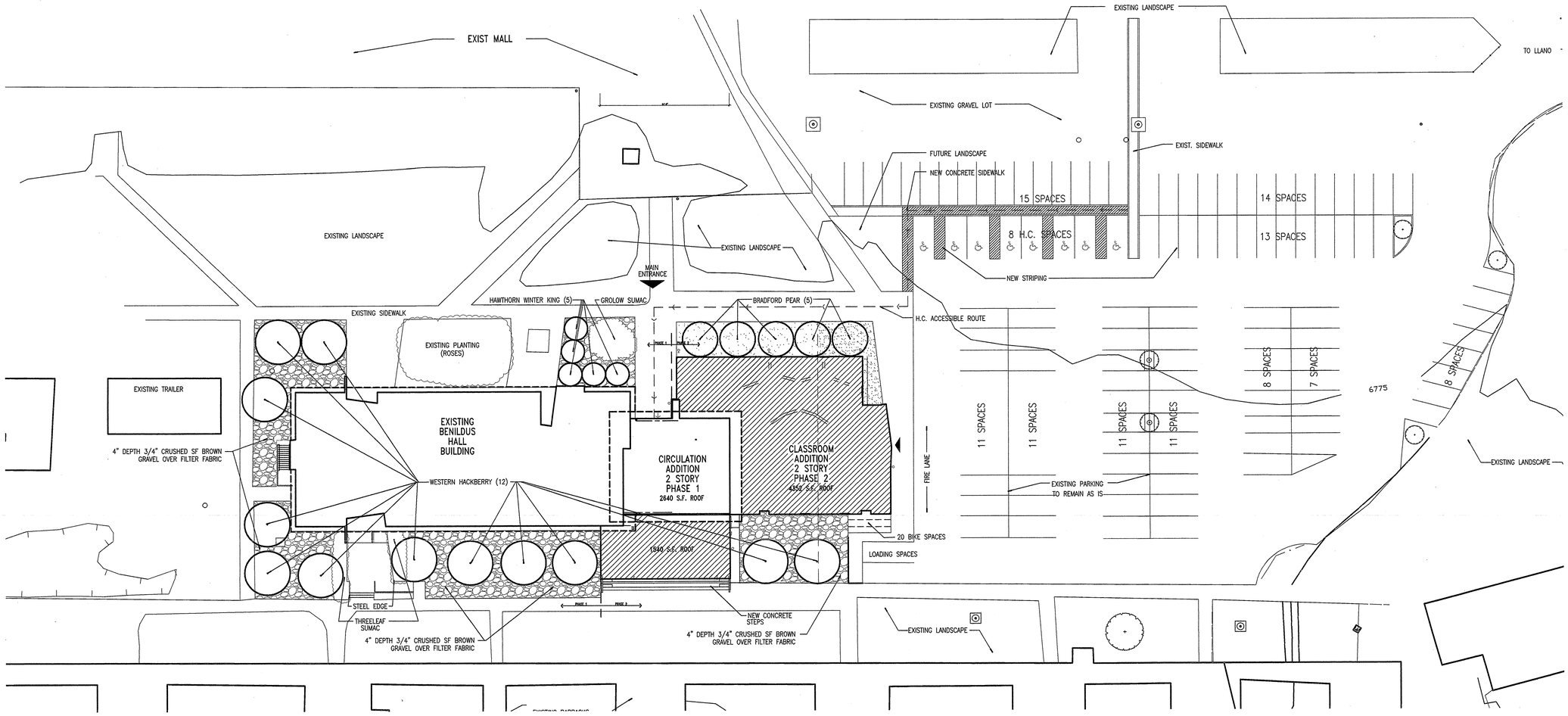
ISSUE: CONSTRUCTION SET
PROJECT NO: 0335P2
CAD DWG FILE: 0335P1-A002.DWG
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SHEET TITLE

PARKING PLAN

A002
sheet of . sheets

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NOTE:
REFER TO A-001 SITE PLAN FOR DETAILED DIMENSIONS

A1 LANDSCAPE SITE PLAN
SCALE: 1"=20'

TRUE NORTH PROJECT NORTH

DCSW ARCHITECTS

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COLLEGE OF SANTA FE
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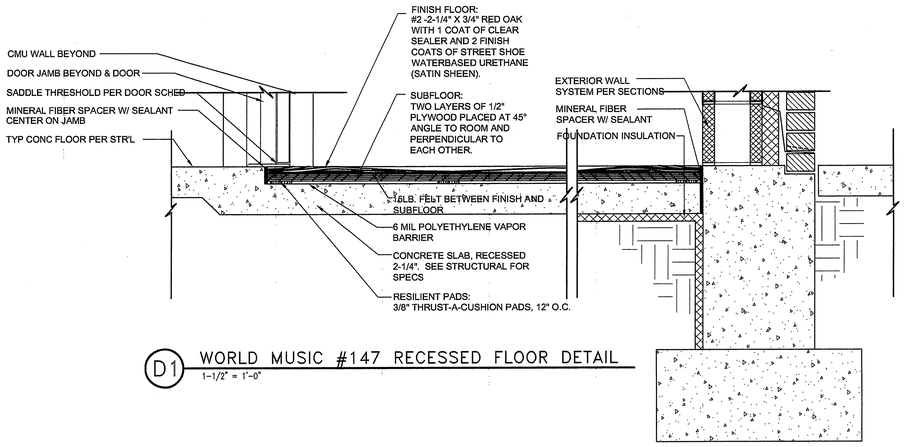
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PROJECT NO:	0335P2
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DATE:	11/08/04

SHEET TITLE

LANDSCAPE PLAN

L101
sheet of . sheets

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D1 WORLD MUSIC #147 RECESSED FLOOR DETAIL
1-1/2" = 1'-0"

A1 FIRST FLOOR PLAN
1/8" = 1'-0"

WALL TYPES

- 12" CMU FULL HEIGHT GROUT ALL CELLS
- 8" CMU FULL HEIGHT
- 8" CMU FULL HEIGHT GROUT ALL CELLS

NOTE: 8" CMU WALL RECEIVES 5/8" GYP. BD. ON HAT CHANNELS TO CEILING HEIGHT AT ONE SIDE OF WALL

3 TRIPLE GLAZING ONE LAYER SHALL BE LAMINATED. INSULATE ALUMINUM FRAMING.

- P1 CMU WITH PLASTER ON CORRIDOR SIDE, PAINTED OTHER SIDE
- P2 CMU WITH SPECTRA GLAZE ON ONE SIDE, PAINTED OTHER SIDE
- P2A CMU WITH SPECTRA GLAZE ON BOTH SIDES
- P3 NOT USED
- P4 NOT USED
- P5 PAINTED CMU (ACOUSTIC PANELS BY OWNER LATER)
- P6 6" STUD WITH PLASTER
- P7 DOUBLE 4" STUD WALL AT 16" O.C. ON 8" TRACK, 4" BATT INSULATION, DOUBLE 5/8" GYP. BD. EACH SIDE OF WALL, FULL HEIGHT
- P8 SAME AS P7 EXCEPT CORRIDOR SIDE WITH PLASTER

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF FINISH FROM PARTITIONS & FURRED WALLS & TO FACE OF MASONRY

B. REFER TO PARTITION, DOOR AND WINDOW SCHEDULES FOR DIMENSIONS OF SCHEDULED ITEMS

C. 4" TYP JAMB OFFSET FOR ALL DOORS UNLESS OTHERWISE NOTED

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F. CONTRACTOR SHALL VERIFY ALL DIMENSIONS + REPORT ANY DISCREPANCIES TO THE ARCHITECT

LEGEND

PHASE I: EXISTING BUILDING

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335-A101.DWG
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DATE:	11/08/04

SHEET TITLE

FIRST FLOOR PLAN

A-101
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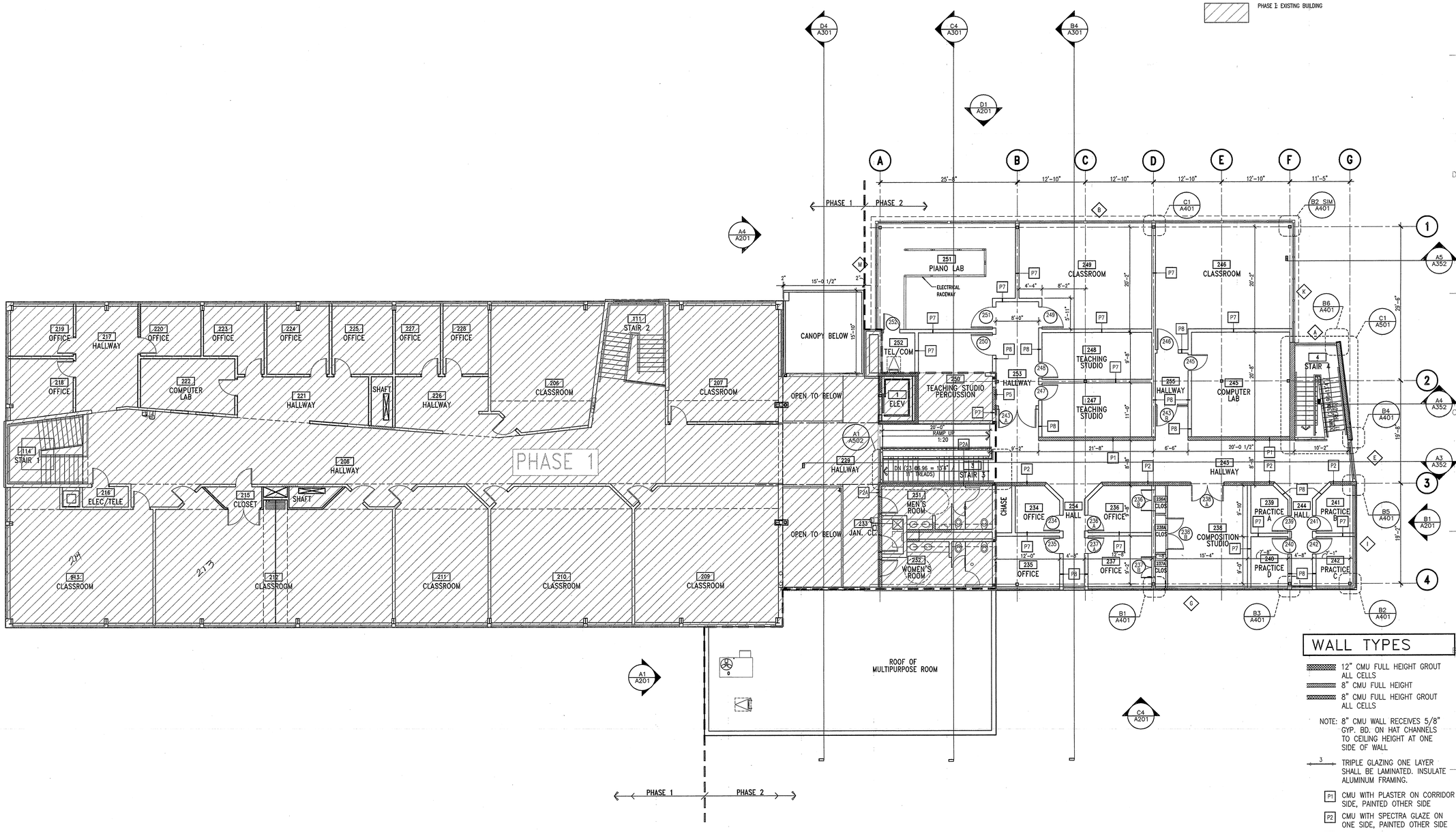
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LEGEND

PHASE 1: EXISTING BUILDING



WALL TYPES

- 12" CMU FULL HEIGHT GROUT ALL CELLS
- 8" CMU FULL HEIGHT
- 8" CMU FULL HEIGHT GROUT ALL CELLS

NOTE: 8" CMU WALL RECEIVES 5/8" GYP. BD. ON HAT CHANNELS TO CEILING HEIGHT AT ONE SIDE OF WALL

3 — TRIPLE GLAZING ONE LAYER SHALL BE LAMINATED. INSULATE ALUMINUM FRAMING.

- P1 — CMU WITH PLASTER ON CORRIDOR SIDE, PAINTED OTHER SIDE
- P2 — CMU WITH SPECTRA GLAZE ON ONE SIDE, PAINTED OTHER SIDE
- P2A — CMU WITH SPECTRA GLAZE ON BOTH SIDES
- P3 — NOT USED
- P4 — NOT USED
- P5 — PAINTED CMU (ACOUSTIC PANELS BY OWNER LATER)
- P6 — 6" STUD WITH PLASTER
- P7 — DOUBLE 4" STUD WALL AT 16" O.C. ON 8" TRACK, 4" BATT INSULATION, DOUBLE 5/8" GYP. BD. EACH SIDE OF WALL, FULL HEIGHT
- P8 — SAME AS P7 EXCEPT CORRIDOR SIDE WITH PLASTER

PLAN NORTH

A1 SECOND FLOOR PLAN
1/8" = 1'-0"

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
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PROJECT NO:	0335P2
CAD DWG FILE:	0335–A101.DWG
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SHEET TITLE

SECOND FLOOR PLAN

A-102
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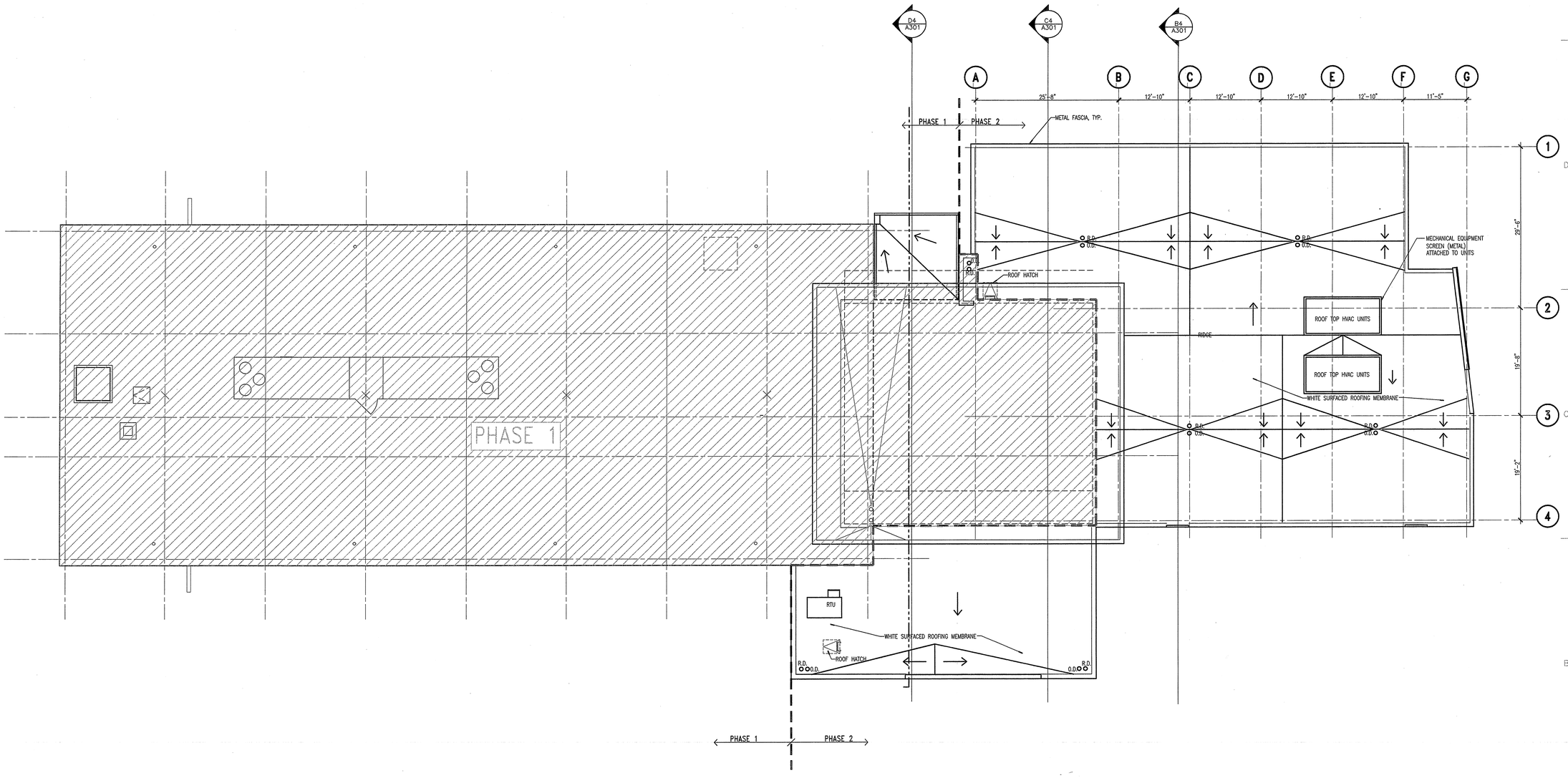
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F. CONTRACTOR SHALL VERIFY ALL DIMENSIONS + REPORT ANY DISCREPANCIES TO THE ARCHITECT



A1 ROOF PLAN
1/8"=1'-0"

LEGEND

- R.D. 8" ø ROOF DRAIN
- O.D. 8" ø OVERFLOW DRAIN
- ROOF CRICKET
- SLOPE, DIRECTION AS INDICATED
- PHASE I: EXISTING BUILDING

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335–A103.DWG
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DATE:	11/08/04

SHEET TITLE

ROOF PLAN

A-103
sheet of . sheets

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GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL DWGS FOR SUPPLY & RETURN AIR REGISTERS, LIGHT FIXTURES, SPECIAL SYSTEMS AND SPRINKLERS

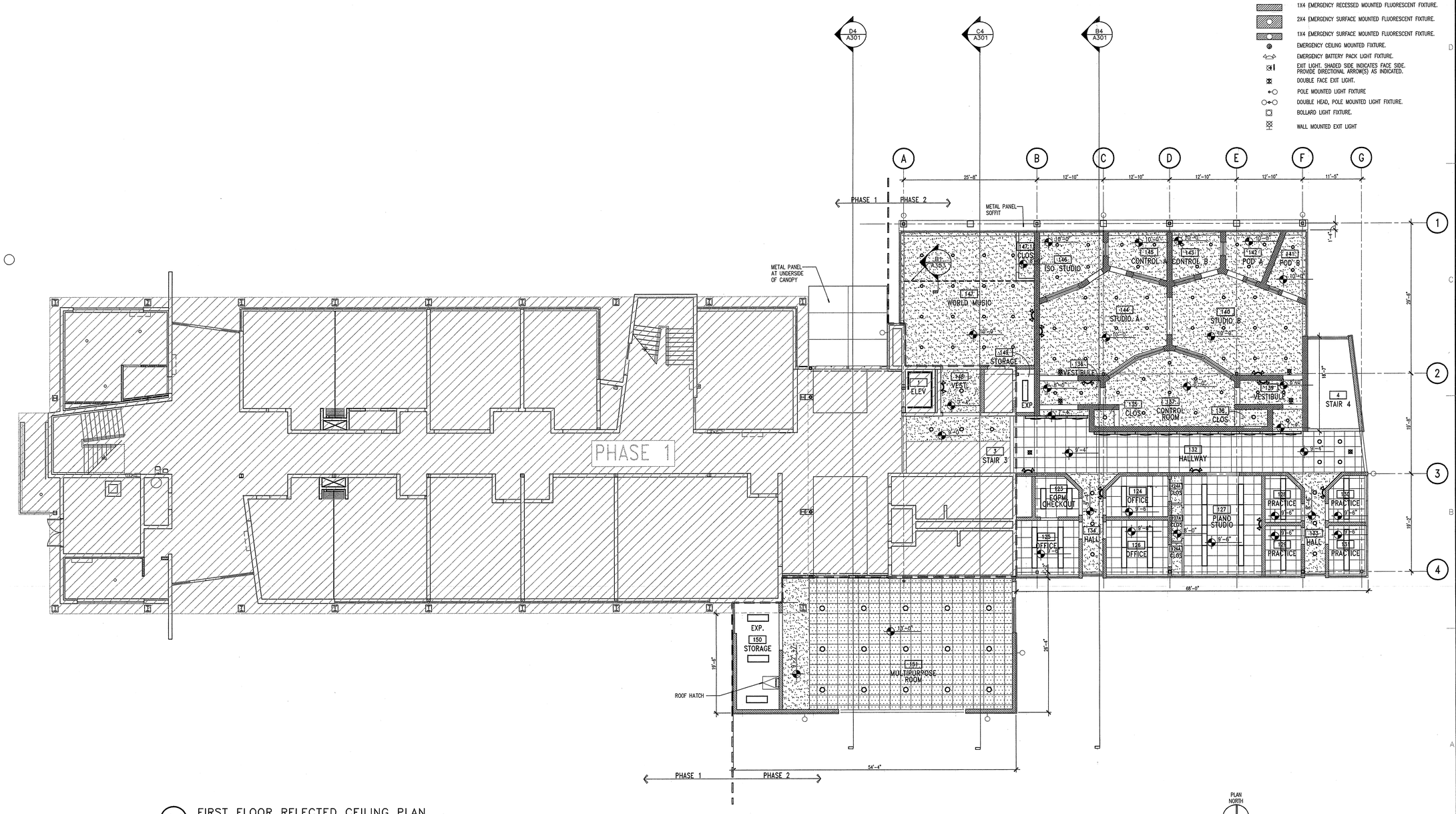
B. COORDINATE WITH FIRE PROTECTION SYSTEM & SPRINKLER HEADS

C. CENTER & ALIGN LIGHTS, SPRINKLERS, SMOKE DETECTORS, REGISTERS ETC. WITH CENTER OF CEILING TILES & SYMMETRICALLY WITH ADJACENT DEVICES

D. ALIGN WIDTH OF GYP. BOARD SOFFITS WITH ADJACENT WALLS UNLESS OTHERWISE NOTED.

SYMBOLS LEGEND

- 2'-0"x2'-0" SUSPENDED LAY-IN CEILING –CORTEGA IN ROOMS –CIRRUS IN CORRIDORS
- SUSPENDED LAY IN CEILING – PERFORATED WOOD 2'-0" X 2'-0"
- GYP BD CEILING, SUSPENDED UNLESS OTHERWISE INDICATED
- 9'-0" CEILING HEIGHT, ABOVE FINISH FLOOR
- SECTION SYMBOL
- LOCATION SECTION IS REFERENCED TO
- SHEET SECTION IS REFERENCED TO
- 2'X2' RECESSED MOUNTED FLUORESCENT FIXTURE.
- 2'X4' RECESSED MOUNTED FLUORESCENT FIXTURE.
- 1'X4' RECESSED MOUNTED FLUORESCENT FIXTURE.
- 2X4 SURFACE MOUNTED FLUORESCENT FIXTURE
- 1X4 SURFACE MOUNTED FLUORESCENT FIXTURE
- WALL MOUNTED FLUORESCENT FIXTURE.
- FLUORESCENT STRIP FIXTURE.
- PENDANT MOUNTED FLUORESCENT FIXTURE
- CEILING OR FLOOR RECESS UP FIXTURE.
- WALL MOUNTED FIXTURE.
- 2X4 EMERGENCY RECESSED MOUNTED FLUORESCENT FIXTURE.
- 1X4 EMERGENCY RECESSED MOUNTED FLUORESCENT FIXTURE.
- 2X4 EMERGENCY SURFACE MOUNTED FLUORESCENT FIXTURE.
- 1X4 EMERGENCY SURFACE MOUNTED FLUORESCENT FIXTURE.
- EMERGENCY CEILING MOUNTED FIXTURE.
- EMERGENCY BATTERY PACK LIGHT FIXTURE.
- EXIT LIGHT. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED.
- DOUBLE FACE EXIT LIGHT.
- POLE MOUNTED LIGHT FIXTURE
- DOUBLE HEAD, POLE MOUNTED LIGHT FIXTURE.
- BOLLARD LIGHT FIXTURE.
- WALL MOUNTED EXIT LIGHT



A1 FIRST FLOOR RFLECTED CEILING PLAN
1/8" = 1'-0"

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335-A101.DWG
DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

SHEET TITLE

FIRST FLOOR RFLECTED CEILING PLAN

A-111

sheet of . sheets

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GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL DWGS FOR SUPPLY & RETURN AIR REGISTERS, LIGHT FIXTURES, SPECIAL SYSTEMS AND SPRINKLERS

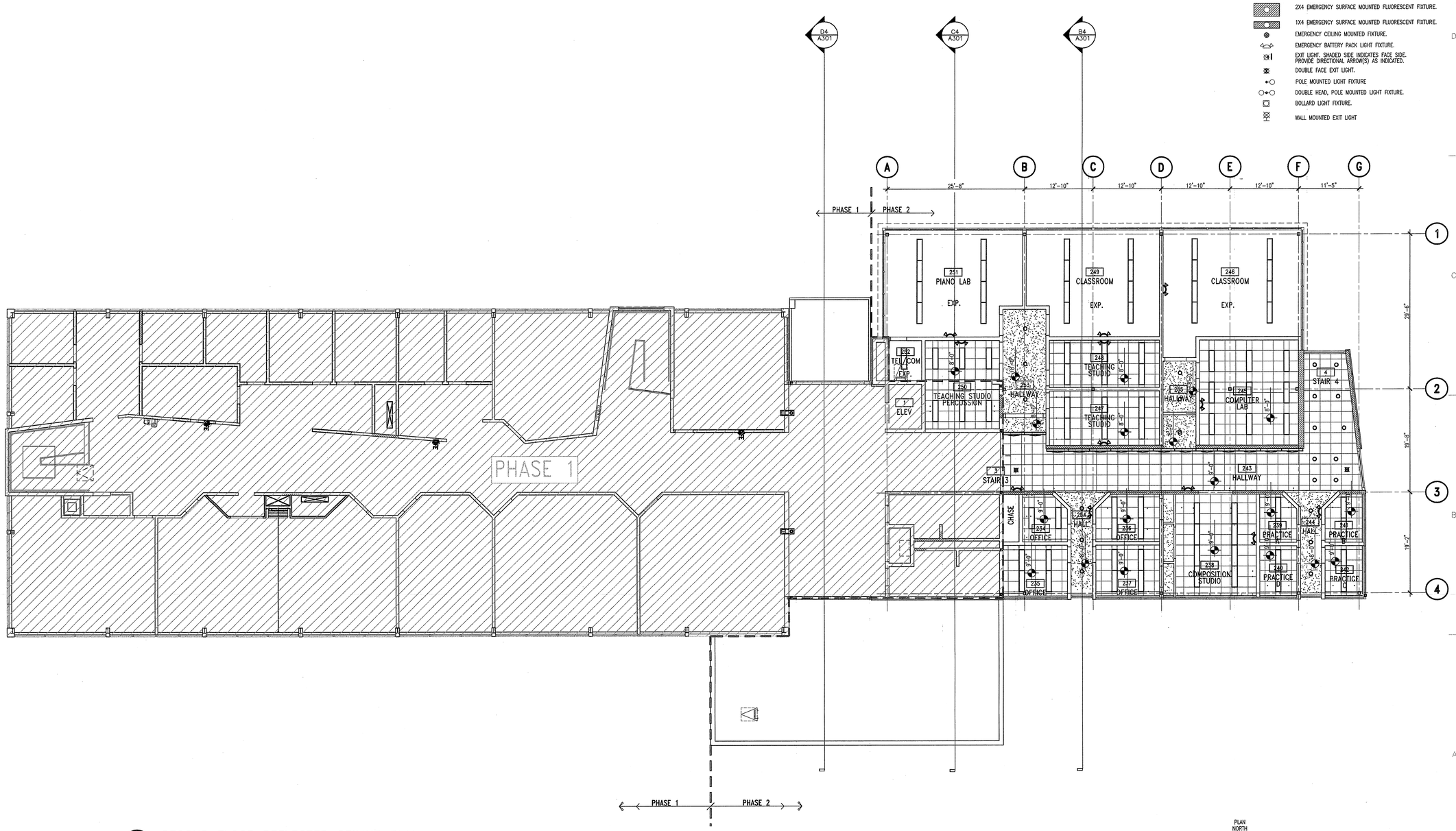
B. COORDINATE WITH FIRE PROTECTION SYSTEM & SPRINKLER HEADS

C. CENTER & ALIGN LIGHTS, SPRINKLERS, SMOKE DETECTORS, REGISTERS ETC. WITH CENTER OF CEILING TILES & SYMMETRICALLY WITH ADJACENT DEVICES

D. ALIGN WIDTH OF GYP. BOARD SOFFITS WITH ADJACENT WALLS UNLESS OTHERWISE NOTED.

SYMBOLS LEGEND

- 2'-0"x2'-0" SUSPENDED LAY-IN CEILING
  - -CORTEGA IN ROOMS
  - -CIRRUS IN CORRIDORS
- SUSPENDED LAY IN CEILING – PERFORATED WOOD 2'-0" X 2'-0"
- GYP BD CEILING, SUSPENDED UNLESS OTHERWISE INDICATED
- 9'-0" CEILING HEIGHT, ABOVE FINISH FLOOR
- SECTION SYMBOL
  - E2 / A503
  - LOCATION SECTION IS REFERENCED TO
  - SHEET SECTION IS REFERENCED TO
- 2'X2' RECESSED MOUNTED FLUORESCENT FIXTURE.
- 2'X4' RECESSED MOUNTED FLUORESCENT FIXTURE.
- 1'X4' RECESSED MOUNTED FLUORESCENT FIXTURE.
- 2X4 SURFACE MOUNTED FLUORESCENT FIXTURE
- 1X4 SURFACE MOUNTED FLUORESCENT FIXTURE
- WALL MOUNTED FLUORESCENT FIXTURE.
- FLUORESCENT STRIP FIXTURE.
- PENDANT MOUNTED FLUORESCENT FIXTURE
- CEILING OR FLOOR RECESS UP FIXTURE.
- WALL MOUNTED FIXTURE.
- 2X4 EMERGENCY RECESSED MOUNTED FLUORESCENT FIXTURE.
- 1X4 EMERGENCY RECESSED MOUNTED FLUORESCENT FIXTURE.
- 2X4 EMERGENCY SURFACE MOUNTED FLUORESCENT FIXTURE.
- 1X4 EMERGENCY SURFACE MOUNTED FLUORESCENT FIXTURE.
- EMERGENCY CEILING MOUNTED FIXTURE.
- EMERGENCY BATTERY PACK LIGHT FIXTURE.
- EXIT LIGHT. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED.
- DOUBLE FACE EXIT LIGHT.
- POLE MOUNTED LIGHT FIXTURE
- DOUBLE HEAD, POLE MOUNTED LIGHT FIXTURE.
- BOLLARD LIGHT FIXTURE.
- WALL MOUNTED EXIT LIGHT



A1 SECOND FLOOR REFLECTED CEILING PLAN

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
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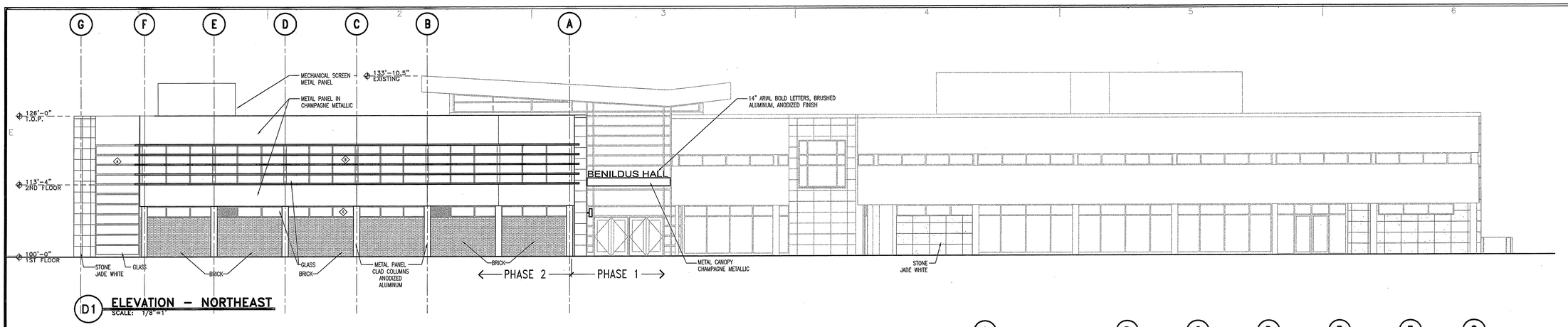
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CHECKED BY:	
DATE:	11/08/04

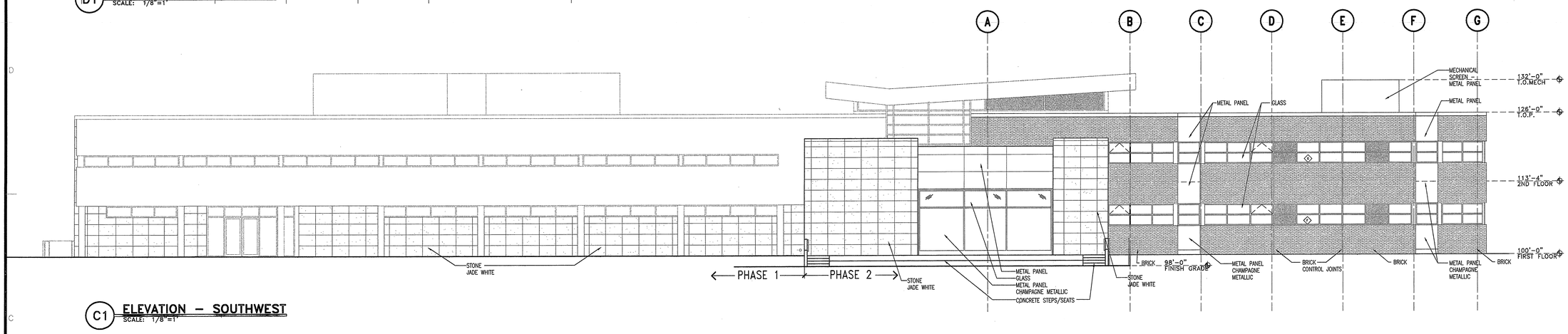
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SECOND FLOOR RFELECTED CEILING PLAN

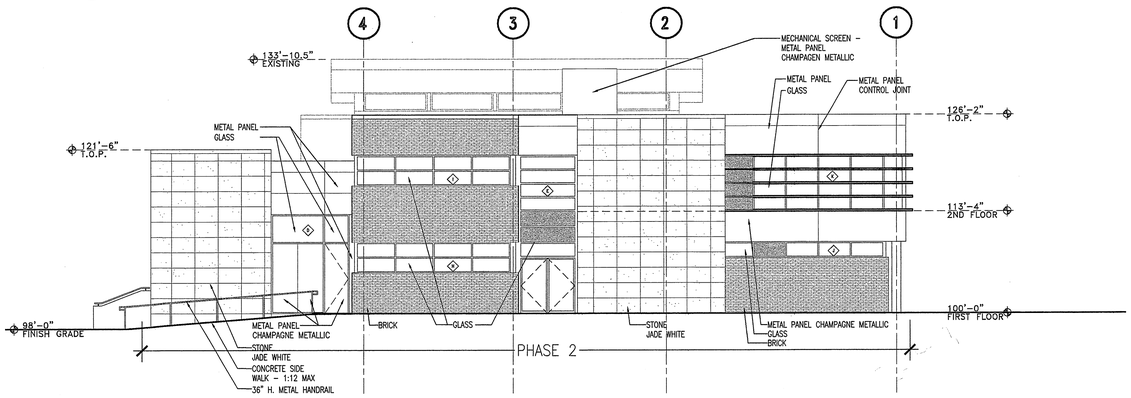
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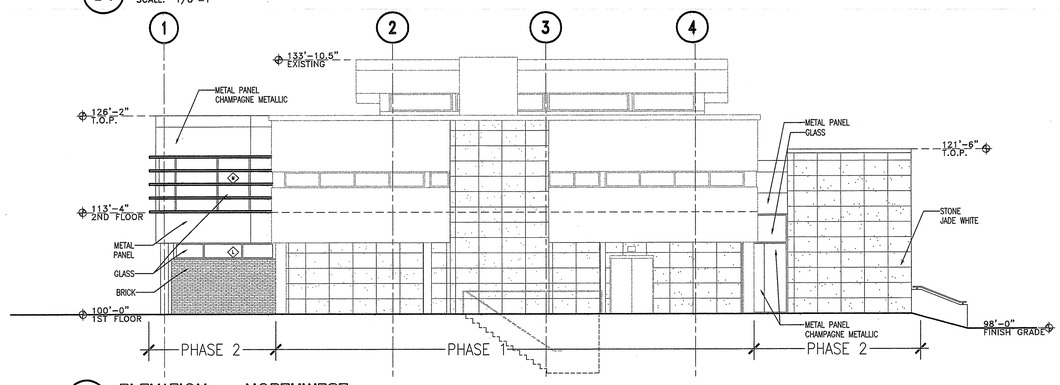
D1 **ELEVATION – NORTHEAST**
SCALE: 1/8"=1'



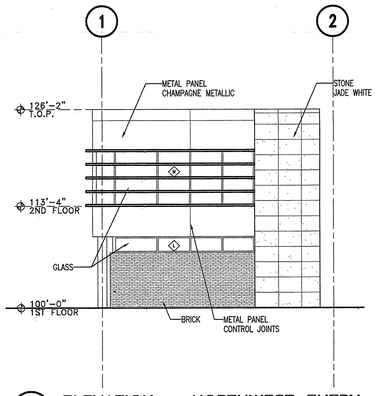
C1 **ELEVATION – SOUTHWEST**
SCALE: 1/8"=1'



B1 **ELEVATION – SOUTHEAST**
SCALE: 1/8"=1'



A1 **ELEVATION – NORTHWEST**
SCALE: 1/8"=1'



A4 **ELEVATION – NORTHWEST ENTRY**
SCALE: 1/8"=1'

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

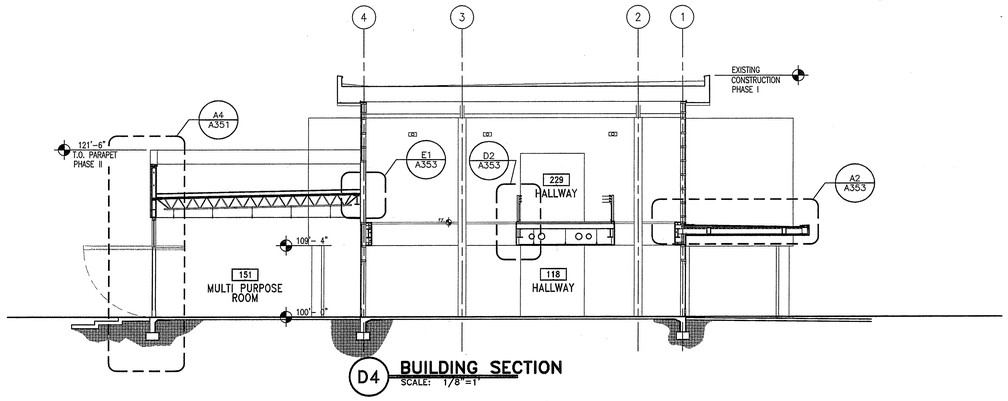
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DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

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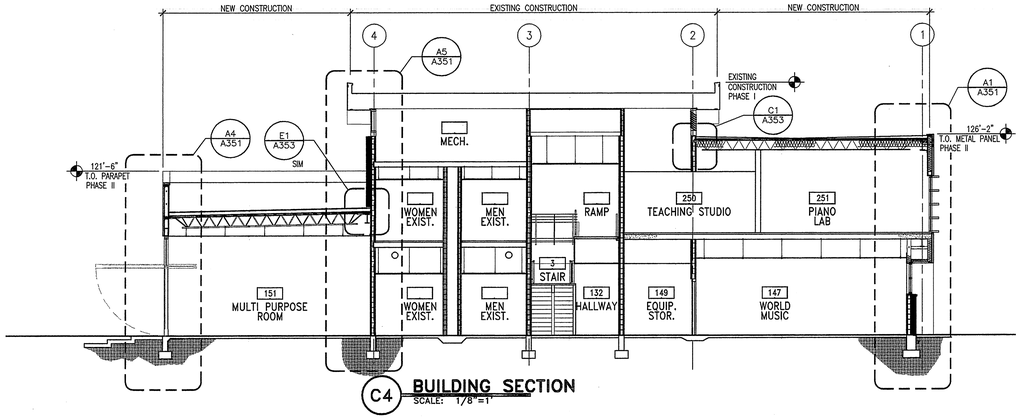
BUILDING ELEVATIONS

A201
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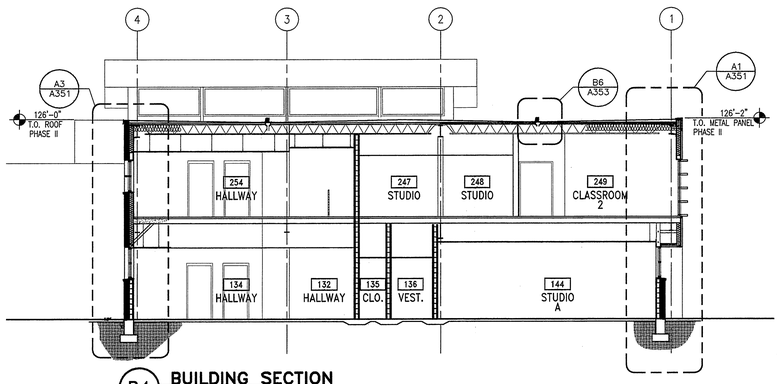
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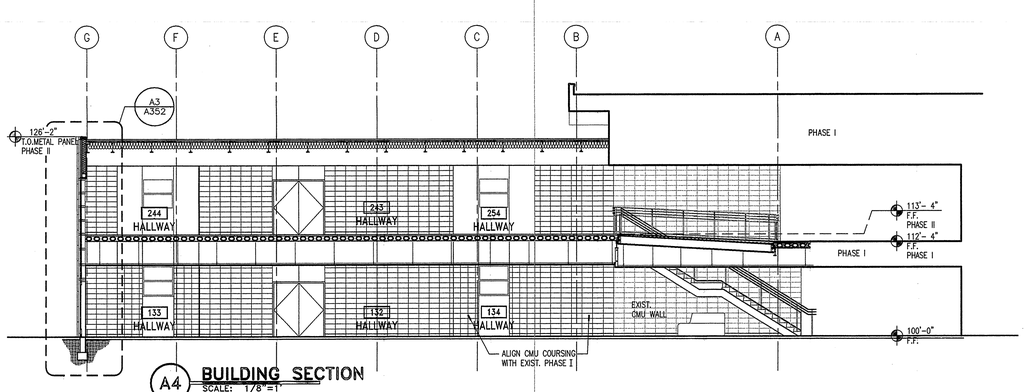
D4 **BUILDING SECTION**
SCALE: 1/8"=1'



C4 **BUILDING SECTION**
SCALE: 1/8"=1'



B4 **BUILDING SECTION**
SCALE: 1/8"=1'



A4 **BUILDING SECTION**
SCALE: 1/8"=1'

SHEET KEYNOTES

1 EXISTING STRUCTURAL STEEL
2 NEW STRUCTURAL STEEL. SEE STRUCTURAL SHEETS.
3 EXISTING WALL OF BRICK FACED CMU
4 NOT USED
5 NEW CMU WALL. SEE STRUCTURAL SHEETS.
6 NEW ALUMINUM STOREFRONT SYSTEM. SEE WINDOW TYPES SHEET.
7 NEW ALUMINUM CURTAIN WALL SYSTEM. SEE WINDOW TYPES SHEET.
8 EXISTING CONCRETE FOOTING.
9 SOFFIT OF GYP. BD. AND STEEL STUDS
10 NEW CONCRETE STEMWALL AND CONCRETE FOOTING.
11 NEW ROOFTOP MECHANICAL UNIT. SEE MECHANICAL SHEETS.
12 REMOVE EXISTING METAL FLASHING, METAL FASCIA, ROOFING PLYS AND RIGID INSULATION. INSTALL NEW MEMBRANE ROOF OVER NEW 1/2" THICK WOOD FIBERBOARD OVER EXISTING METAL DECK.
13 NEW MEMBRANE ROOF ON 1/2" WOOD FIBERBOARD ON 3" METAL DECKING.
14 NEW ALUMINUM COMPOSITE SOFFIT PANEL SYSTEM
15 NEW ALUMINUM COMPOSITE FASCIA PANEL
16 NEW ALUMINUM COMPOSITE WALL PANEL SYSTEM
17 EXISTING EXTERIOR SOFFIT OF SUSPENDED LATH AND PLASTER SYSTEM. REPAIR AND REFINISH.
18 NEW EXTERIOR SOFFIT OF SUSPENDED LATH AND PLASTER SYSTEM.
19 EXISTING BUILDING BEYOND
20 NEW SKYLIGHT OF INSULATED TRANSLUCENT PANELS AT LOCATION OF EXISTING ACRYLIC SKYLIGHT.
21 EXISTING CONCRETE SLAB
22 NEW CONCRETE SLAB
23 R30 BATT INSULATION
24 NEW EXTERIOR CONCRETE PAVING
25 FURROUT EXISTING BRICK FACED CMU WALL WITH GYPSUM BOARD ON STEEL STUDS.
26 PRECAST HOLLOW CORE CONCRETE PANEL W/ 2" POURED IN PLACE CONCRETE TOPPING.
27 ALUMINUM GUARD RAIL.
28 ALUMINUM GYP. BD. REVEAL
29 FINISH CEILING. SEE FINISH SCHEDULE FOR TYPE AND HEIGHT.
30 NEW STAIR OF PRECAST CONCRETE TREADS, TUBE STEEL STRINGER AND ALUMINUM HANDRAILS
31 FINISH GRADE. SEE CIVIL SHEETS.
32 LEVEL EXISTING SLAB AS REQUIRED.
33 EXISTING STAIR OF PRECAST TERRAZZO TREADS, TUBE STEEL STRINGER AND ALUMINUM HANDRAILS INSTALL NEW GLASS GUARD RAIL AS REQUIRED. INSTALL METAL FILLER PANELS AT OPEN RISERS.
34 EXISTING EXTERIOR STAIR TO EXISTING BASEMENT MECHANICAL ROOM
35 EXISTING FINISH GRADE.
36 PLASTER FINISH
37 WOOD WALL PANEL
38 MECHANICAL LOUVER
39 GLAZED CMU
40 EXISTING WINDOWS TO REMAIN
41 PAINTED GYP. BD.

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

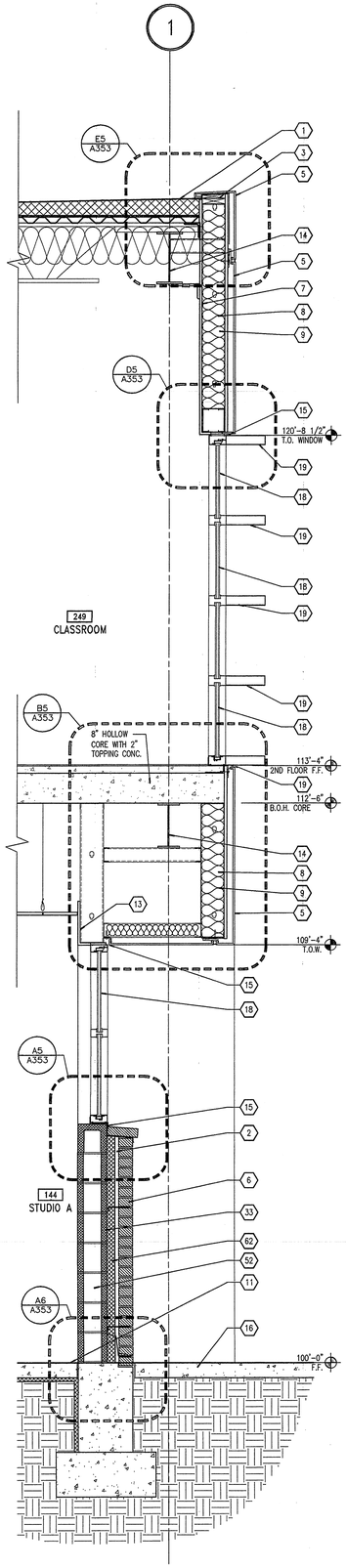
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DRAWN BY:	KKL
CHECKED BY:	
DATE:	11/08/04

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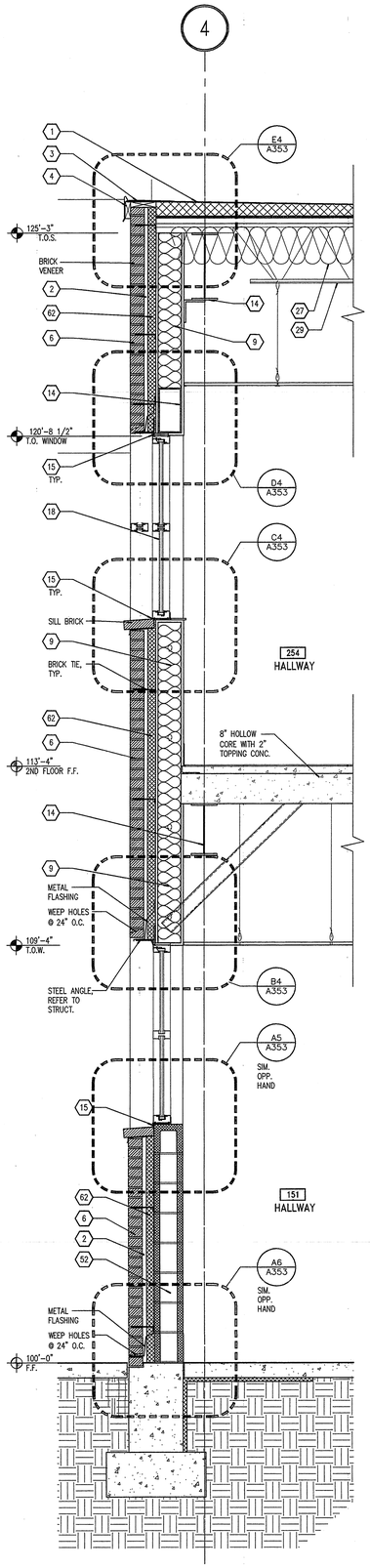
BUILDING SECTIONS

A301
sheet of . sheets

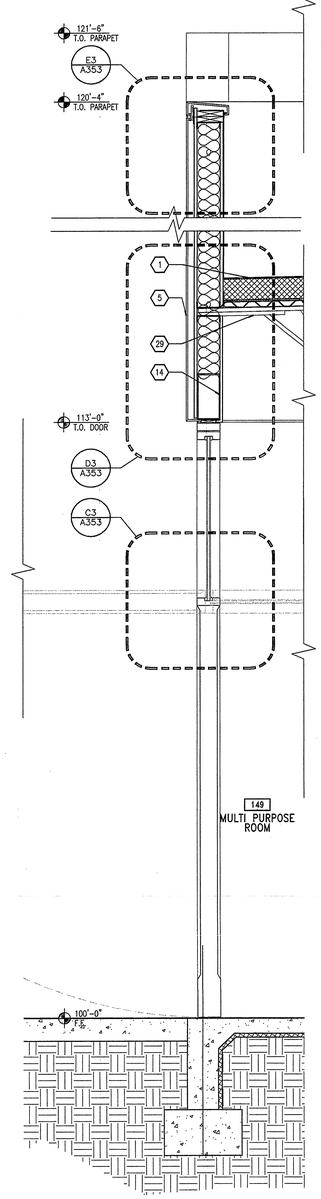
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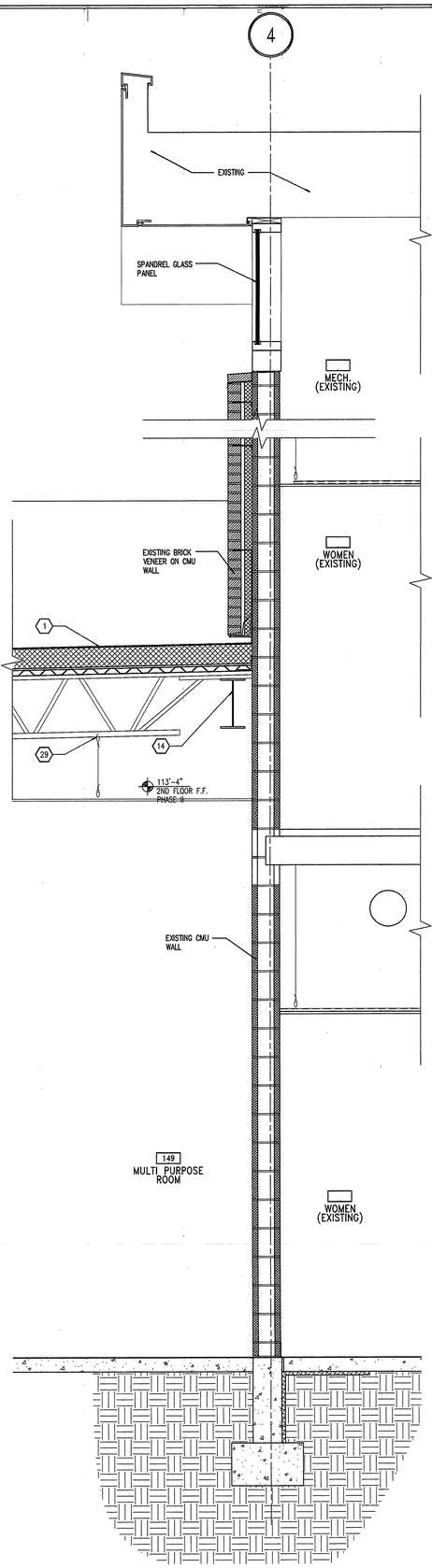
A1 WALL SECTION
SCALE: 3/4"=1'



A3 WALL SECTION
SCALE: 3/4"=1'



A4 WALL SECTION
SCALE: 3/4"=1'



A5 WALL SECTION
SCALE: 3/4"=1'

SHEET KEYNOTES

1 NEW MEMBRANE ROOFING SYSTEM
2 1" AIR SPACE
3 NEW TREATED WOOD BLOCKING
4 NEW METAL FASCIA
5 METAL PANEL
6 BRICK VENEER WITH METAL TIES
7 NOT USED.
8 6" METAL STUD (SEE STRUCTURAL)
9 BATT. INSULATION
10 NEW SUSPENDED ACOUSTICAL TILE CEILING. SEE FINISH SCHEDULE.
11 NEW FINISH FLOOR. SEE FINISH SCHEDULE.
12 NEW SOFFIT OF SUSPENDED LATH AND PLASTER
13 5/8" GYPSUM BOARD ON STEEL STUDS
14 STRUCTURAL STEEL. SEE STRUCTURAL SHEETS.
15 SEALANT W/ BACKER ROD AS REQUIRED
16 CONCRETE SLAB ON GRADE (SEE STRUCTURAL)
17 NEW BASE. SEE FINISH SCHEDULE
18 SCHEDULED WINDOW
19 EXTENDED ALUMINUM WINDOW FRAME
20 EXISTING REINFORCED CONCRETE SLAB ON CORRUGATED METAL DECK
21 3" METAL DECK. SEE STRUCTURAL SHEETS
22 1/2" WOOD FIBERBOARD
23 FULLY ADHERED MEMBRANE ROOFING SYSTEM
24 ALUMINUM COMPOSITE FASCIA PANEL
25 ALUMINUM COMPOSITE SOFFIT PANEL
26 BENT FRAME OF W21X44. SEE STRUCTURAL SHEETS.
27 R30 BATT INSULATION
28 3/4" TREATED PLYWOOD
29 METAL JOISTS. SEE STRUCTURAL SHEETS FOR SPACING, DEPTH AND GAUGE.
30 CURTAIN WALL GLAZING SYSTEM
31 6" HIGH CURB OF TREATED WOOD BLOCKING WRAP INSIDE & OUT W/ ALUMINUM BREAK METAL TO MATCH CURTAIN WALL SYSTEM
32 REINFORCED CMU LINTEL ABOVE KNOCK OUT PANEL. SEE STRUCTURAL SHEETS.
33 8" CMU WALL. SEE STRUCTURAL SHEETS.
34 5/8" EXTERIOR GYPSUM SHEATHING
35 SUSPENDED GYPSUM BOARD CEILING
36 2" POURED IN PLACE CONCRETE TOPPING
37 ALUMINUM GYPSUM BOARD REVEAL
38 CMU KNOCK OUT PANEL FOR CONNECTION TO FUTURE ADDITION
39 PERFORATED WOOD PANEL CEILING ON HAT CHANNELS ON JOISTS
40 CONCRETE STEM WALL & FOOTING. SEE STRUCTURAL
41 1/2" EXPANSION MATERIAL. SEE STRUCTURAL SHEETS.
42 NEW CONCRETE SLAB ON GRADE. SEE STRUCTURAL SHEETS.
43 CMU WALL. SEE STRUCTURAL SHEETS.
44 STAIR LANDING. SEE STAIR DETAILS
45 STEEL COLUMN. SEE STRUCTURAL SHEETS.
46 1" RIGID INSULATION
47 EXISTING GRADE
48 FINISH GRADE. SEE CIVIL SHEETS.
49 PRECAST HOLLOW CORE CONCRETE PANEL. SEE STRUCTURAL SHEETS.
50 SPANDREL PANEL. SEE WINDOW TYPES SHEETS.
51 NEW CONCRETE PAVEMENT. SEE CIVIL SHEETS.
52 VERMICULITE FILLED BLOCK – TYP. ON ALL EXT. WALLS
53 ROOF DRAIN. SEE ROOF PLAN.
54 ROOF DRAIN LEADER. SEE MECHANICAL SHEETS.
55 1/2 " DIRECT APPLIED INTERIOR PLASTER SYSTEM CONSISTING OF FIBERED BASECOAT AND FIBERED FINISH COAT. SMOOTH TROWELED FINISH.
56 EXISTING WINDOW
57 ANCHOR CURTAIN WALL TO STEEL BEAM AT EACH VERTICAL MULLION.
58 HAT CHANNEL
59 SOLID WOOD TRIM PIECE / PLASTER STOP. STAIN TO MATCH WALL PANELS.
60 EXPOSED GLAZED BLOCK
61 FURR OUT BEAM DIMENSIONS AS SHOWN WITH STEEL STUDS AND GYP. BD.
62 2" RIGID INSULATION

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

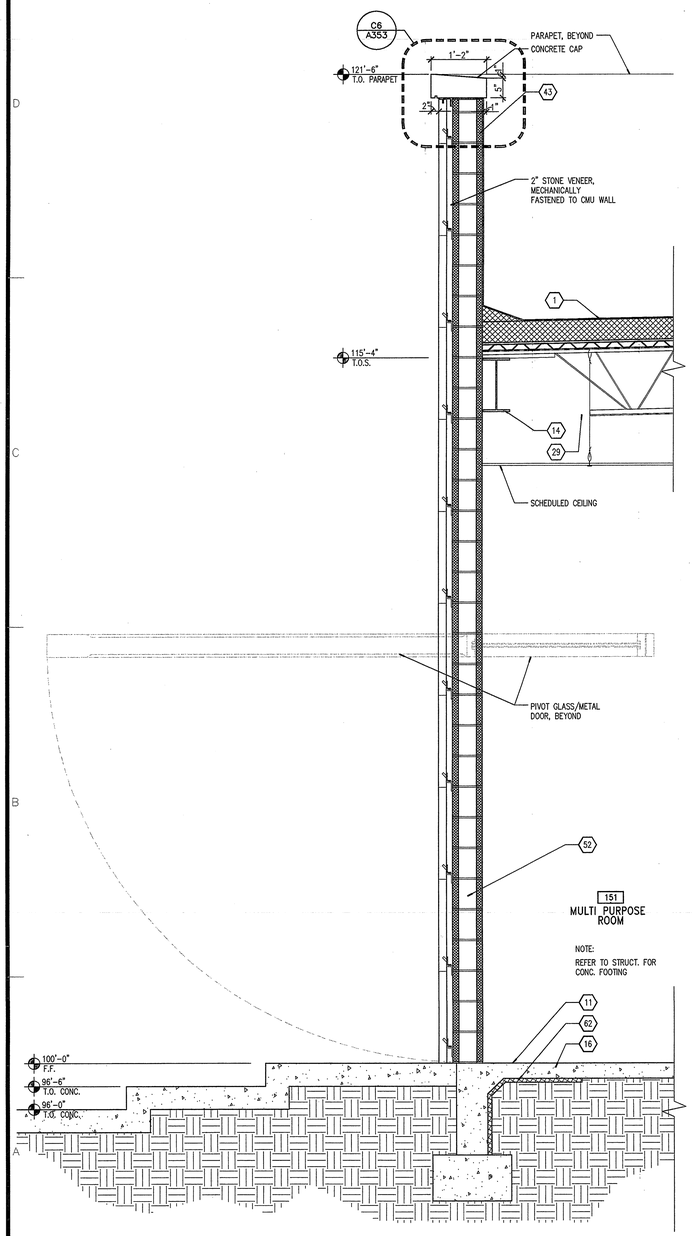
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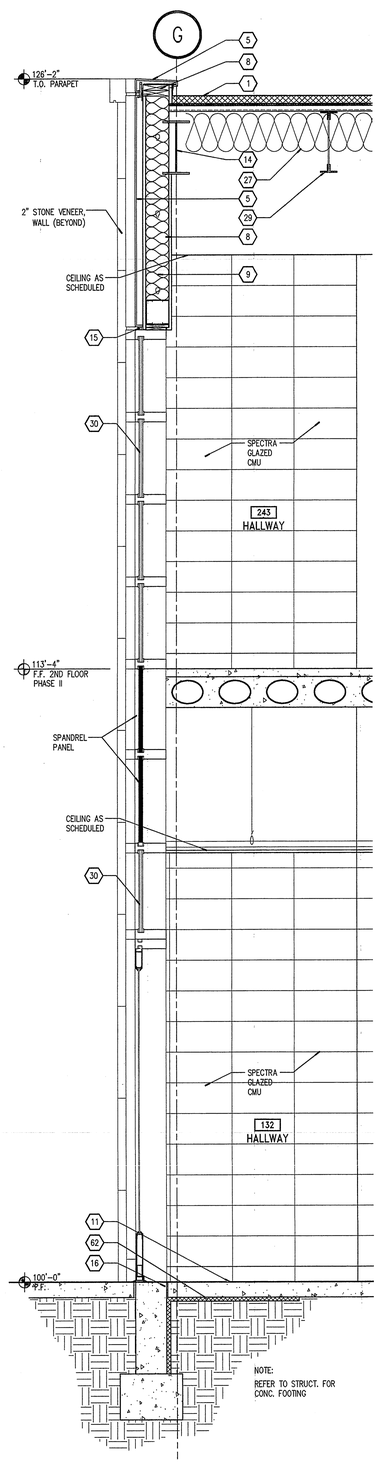
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WALL SECTIONS

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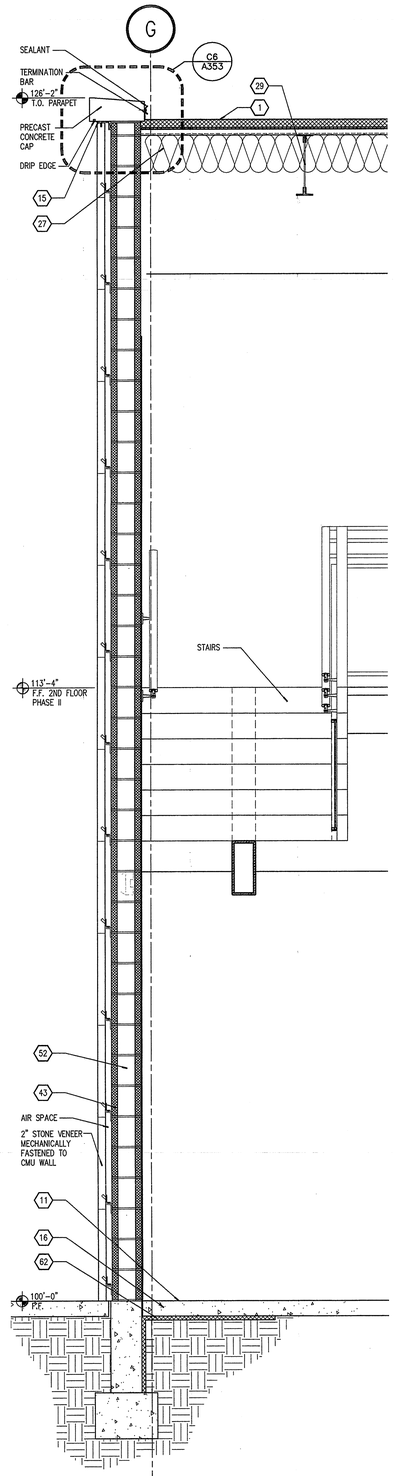
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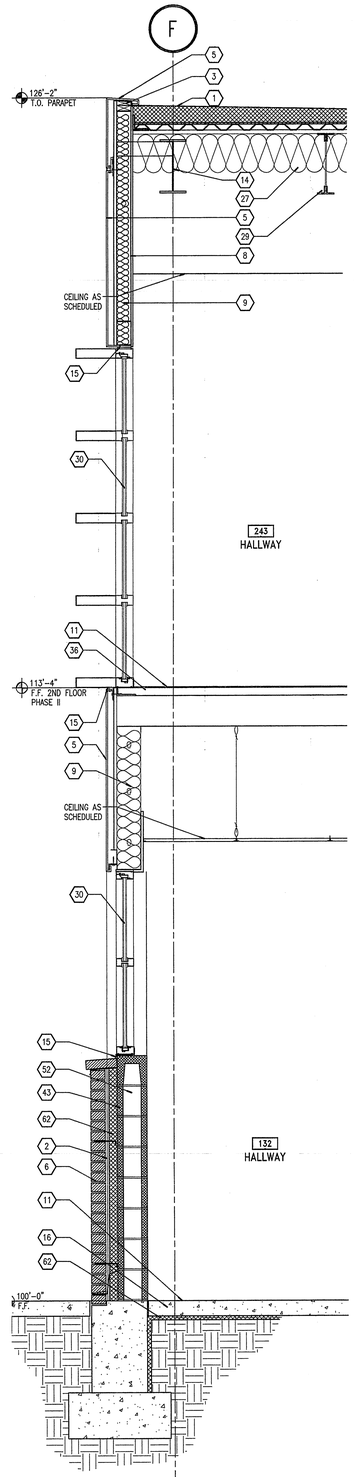
A1 WALL SECTION
SCALE: 3/4"=1'



A3 WALL SECTION
SCALE: 3/4"=1'



A4 WALL SECTION
SCALE: 3/4"=1'



A5 WALL SECTION
SCALE: 3/4"=1'

SHEET KEYNOTES

1 NEW MEMBRANE ROOFING SYSTEM
2 1" AIR SPACE
3 NEW TREATED WOOD BLOCKING
4 NEW METAL FASCIA
5 METAL PANEL
6 BRICK VENEER WITH METAL TIES
7 NOT USED.
8 6" METAL STUD (SEE STRUCTURAL)
9 BATT. INSULATION
10 NEW SUSPENDED ACOUSTICAL TILE CEILING. SEE FINISH SCHEDULE.
11 NEW FINISH FLOOR. SEE FINISH SCHEDULE.
12 NEW SOFFIT OF SUSPENDED LATH AND PLASTER
13 5/8" GYPSUM BOARD ON STEEL STUDS
14 STRUCTURAL STEEL. SEE STRUCTURAL SHEETS.
15 SEALANT W/ BACKER ROD AS REQUIRED
16 CONCRETE SLAB ON GRADE (SEE STRUCTURAL)
17 NEW BASE. SEE FINISH SCHEDULE
18 SCHEDULED WINDOW
19 EXTENDED ALUMINUM WINDOW FRAME
20 EXISTING REINFORCED CONCRETE SLAB ON CORRUGATED METAL DECK
21 3" METAL DECK. SEE STRUCTURAL SHEETS
22 1/2" WOOD FIBERBOARD
23 FULLY ADHERED MEMBRANE ROOFING SYSTEM
24 ALUMINUM COMPOSITE FASCIA PANEL
25 ALUMINUM COMPOSITE SOFFIT PANEL
26 BENT FRAME OF W21X44. SEE STRUCTURAL SHEETS.
27 R30 BATT INSULATION
28 3/4" TREATED PLYWOOD
29 METAL JOISTS. SEE STRUCTURAL SHEETS FOR SPACING, DEPTH AND GAUGE.
30 CURTAIN WALL GLAZING SYSTEM
31 6" HIGH CURB OF TREATED WOOD BLOCKING WRAP INSIDE & OUT W/ ALUMINUM BREAK METAL TO MATCH CURTAIN WALL SYSTEM
32 REINFORCED CMU LINTEL ABOVE KNOCK OUT PANEL. SEE STRUCTURAL SHEETS.
33 8" CMU WALL. SEE STRUCTURAL SHEETS.
34 5/8" EXTERIOR GYPSUM SHEATHING
35 SUSPENDED GYPSUM BOARD CEILING
36 2" POURED IN PLACE CONCRETE TOPPING
37 ALUMINUM GYPSUM BOARD REVEAL
38 CMU KNOCK OUT PANEL FOR CONNECTION TO FUTURE ADDITION
39 PERFORATED WOOD PANEL CEILING ON HAT CHANNELS ON JOISTS
40 CONCRETE STEM WALL & FOOTING. SEE STRUCTURAL
41 1/2" EXPANSION MATERIAL. SEE STRUCTURAL SHEETS.
42 NEW CONCRETE SLAB ON GRADE. SEE STRUCTURAL SHEETS.
43 CMU WALL. SEE STRUCTURAL SHEETS.
44 STAIR LANDING. SEE STAIR DETAILS
45 STEEL COLUMN. SEE STRUCTURAL SHEETS.
46 1" RIGID INSULATION
47 EXISTING GRADE
48 FINISH GRADE. SEE CIVIL SHEETS.
49 PRECAST HOLLOW CORE CONCRETE PANEL. SEE STRUCTURAL SHEETS.
50 SPANDREL PANEL. SEE WINDOW TYPES SHEETS.
51 NEW CONCRETE PAVEMENT. SEE CIVIL SHEETS.
52 VERMICULITE FILLED BLOCK – TYP. ON ALL EXT. WALLS
53 ROOF DRAIN. SEE ROOF PLAN.
54 ROOF DRAIN LEADER. SEE MECHANICAL SHEETS.
55 1/2 " DIRECT APPLIED INTERIOR PLASTER SYSTEM CONSISTING OF FIBERED BASECOAT AND FIBERED FINISH COAT. SMOOTH TROWELED FINISH.
56 EXISTING WINDOW
57 ANCHOR CURTAIN WALL TO STEEL BEAM AT EACH VERTICAL MULLION.
58 HAT CHANNEL
59 SOLID WOOD TRIM PIECE / PLASTER STOP. STAIN TO MATCH WALL PANELS.
60 EXPOSED GLAZED BLOCK
61 FURR OUT BEAM DIMENSIONS AS SHOWN WITH STEEL STUDS AND GYP. BD.
62 2" RIGID INSULATION

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320 Central Ave., SW, Albuquerque, NM 87102
505.843.9639 Fax.505.843.9683
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E-Mail: dcsw@dcswarchitects.com

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CONSULTANTS

Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

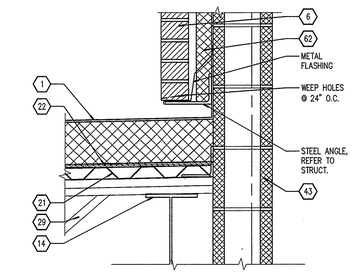
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DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

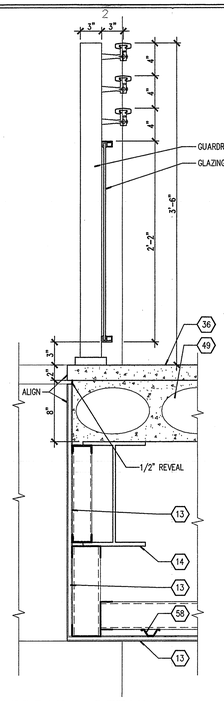
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WALL SECTIONS

A352
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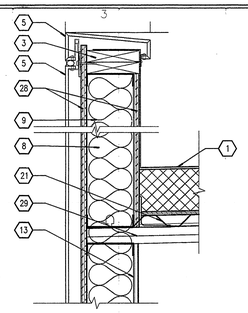
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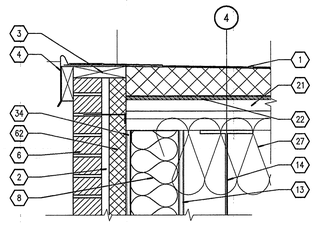
E1 ROOF DETAIL
1 1/2" =1'-0"



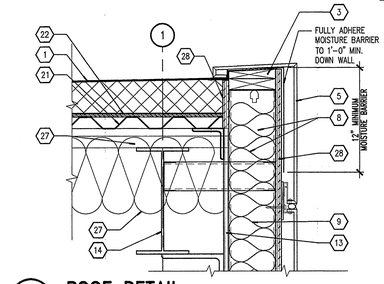
D2 GUARDRAIL DETAIL
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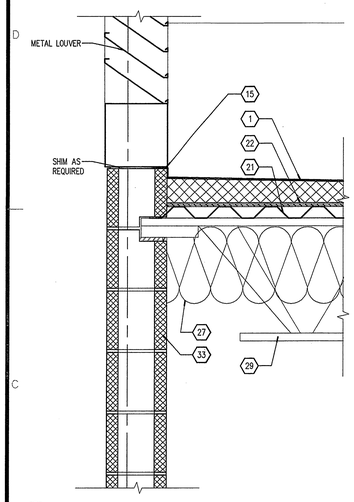
E3 PARAPET DETAIL
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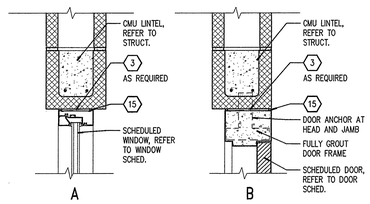
E4 ROOF DETAIL
1 1/2" =1'-0"



E5 ROOF DETAIL
1 1/2" =1'-0"

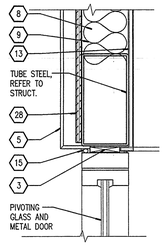


C1 ROOF DETAIL
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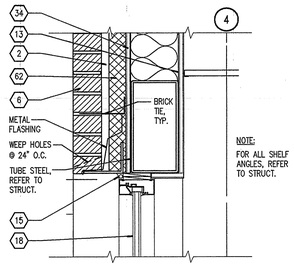


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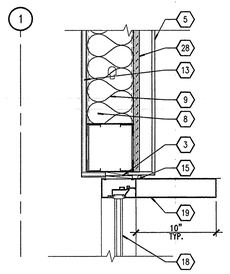
E3 PARAPET DETAIL
1 1/2" =1'-0"



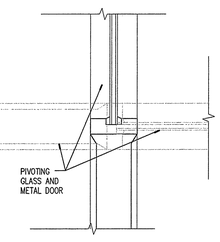
D3 DOOR HEAD DETAIL
1 1/2" =1'-0"

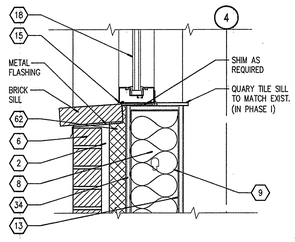


D4 WINDOW HEAD DETAIL
1 1/2" =1'-0"



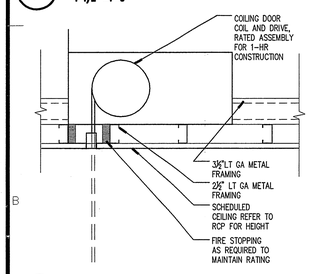
D5 WINDOW HEAD DETAIL
1 1/2" =1'-0"



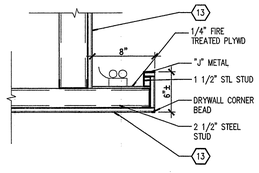


C2 HEAD DETAILS
1 1/2" =1'-0"

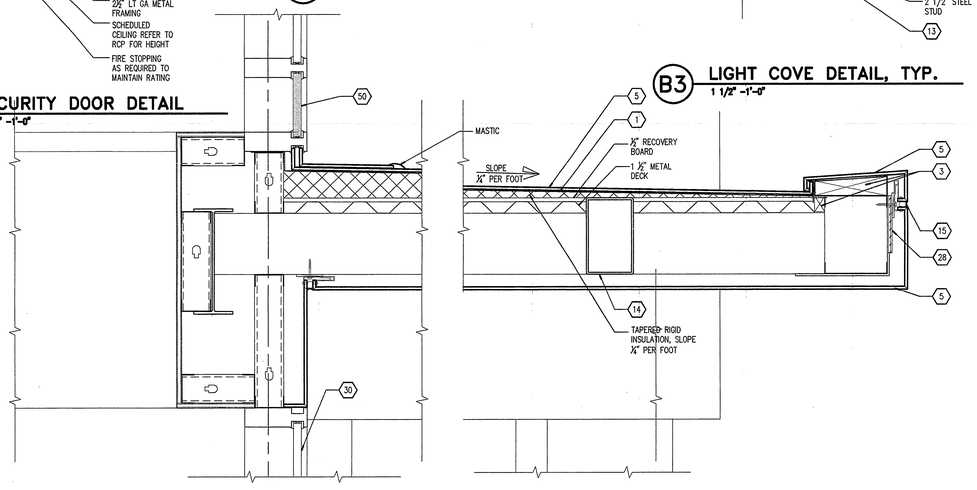
C3 DOOR PIVOT DETAIL
1 1/2" =1'-0"



B1 SECURITY DOOR DETAIL
1 1/2" =1'-0"

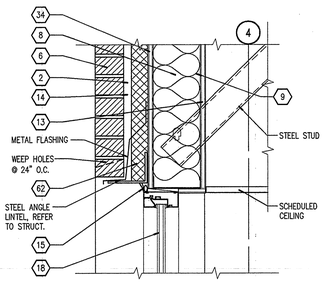


B3 LIGHT COVE DETAIL, TYP.
1 1/2" =1'-0"

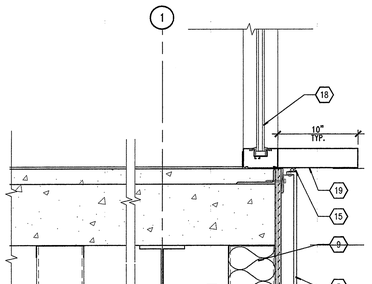


A2 CANOPY DETAIL
1 1/2" =1'-0"

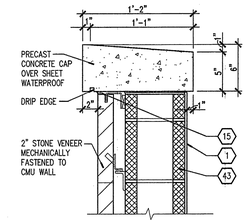
C4 WINDOW SILL DETAIL
1 1/2" =1'-0"



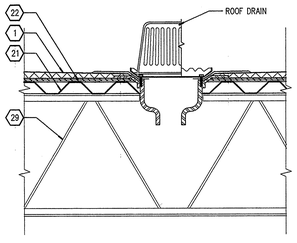
B4 WINDOW HEAD DETAIL
1 1/2" =1'-0"



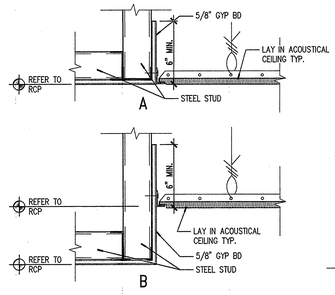
B5 SOFFIT/FASCIA DETAIL
1 1/2" =1'-0"



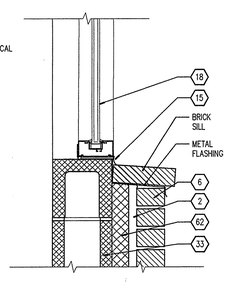
C6 CONCRETE CAP DETAIL
1 1/2" =1'-0"



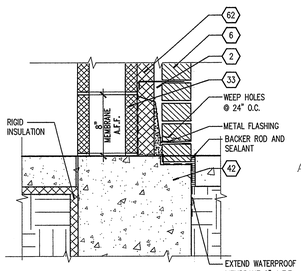
B6 ROOF DRAIN DETAIL
1 1/2" =1'-0"



A4 CLNG. TRANSITION DETAILS, TYP.
1 1/2" =1'-0"



A5 WINDOW SILL DETAIL
1 1/2" =1'-0"



A6 CMU/BRICK TO SLAB DETAIL
1 1/2" =1'-0"

SHEET KEYNOTES

1 NEW MEMBRANE ROOFING SYSTEM
2 1" AIR SPACE
3 NEW TREATED WOOD BLOCKING
4 NEW METAL FASCIA
5 METAL PANEL
6 BRICK VENEER WITH METAL TIES
7 NOT USED.
8 6" METAL STUD (SEE STRUCTURAL)
9 BATT. INSULATION
10 NEW SUSPENDED ACOUSTICAL TILE CEILING. SEE FINISH SCHEDULE.
11 NEW FINISH FLOOR. SEE FINISH SCHEDULE.
12 NEW SOFFIT OF SUSPENDED LATH AND PLASTER
13 5/8" GYPSUM BOARD ON STEEL STUDS
14 STRUCTURAL STEEL. SEE STRUCTURAL SHEETS.
15 SEALANT W/ BACKER ROD AS REQUIRED
16 CONCRETE SLAB ON GRADE (SEE STRUCTURAL)
17 NEW BASE. SEE FINISH SCHEDULE
18 SCHEDULED WINDOW
19 EXTENDED ALUMINUM WINDOW FRAME
20 EXISTING REINFORCED CONCRETE SLAB ON CORRUGATED METAL DECK
21 3" METAL DECK. SEE STRUCTURAL SHEETS
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CONSULTANTS

Architect Engineer

BENILDUS HALL PHASE 2

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1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

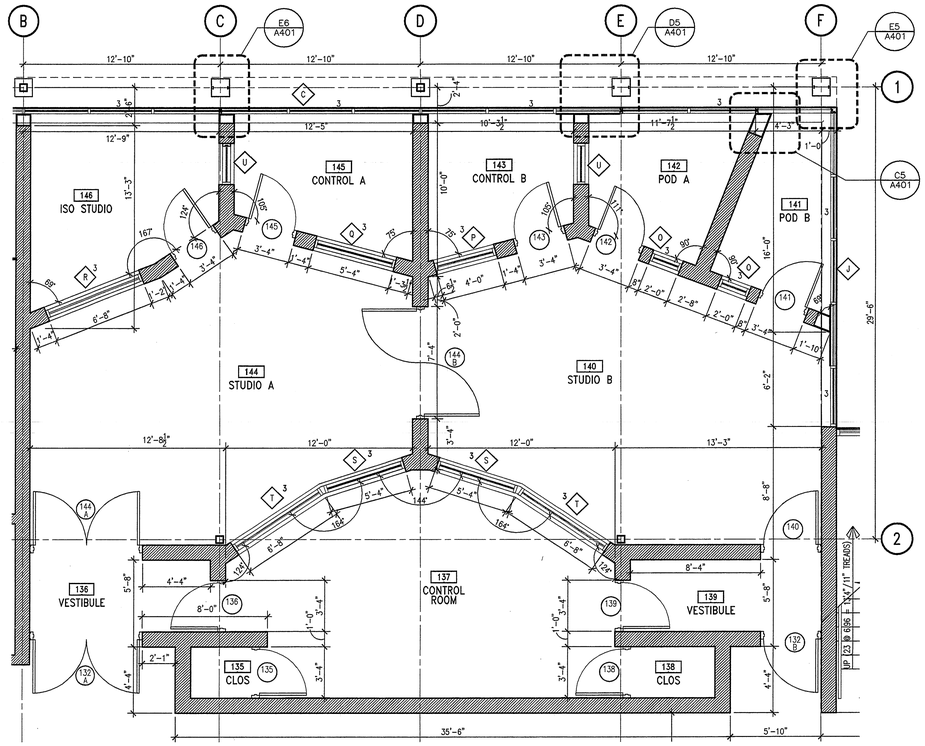
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SHEET TITLE

ENLARGED DETAILS

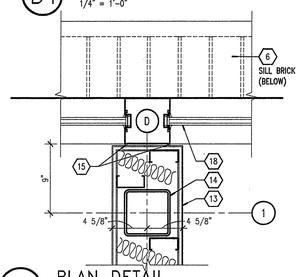
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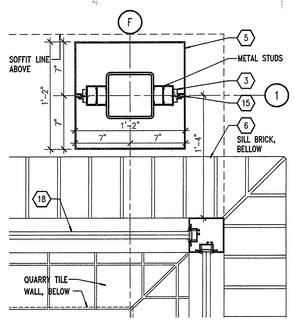


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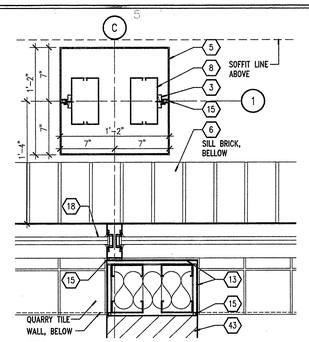
PLAN NORTH



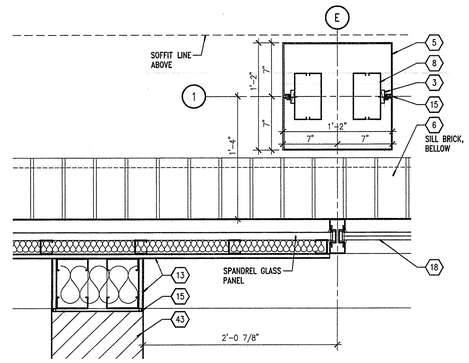
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1-1/2" = 1'-0"



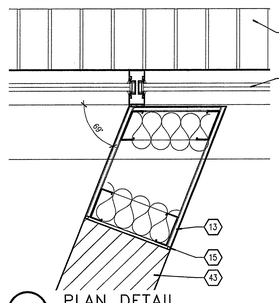
E5 PLAN DETAIL
1-1/2" = 1'-0"



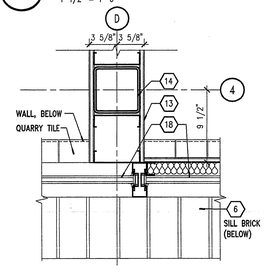
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1-1/2" = 1'-0"



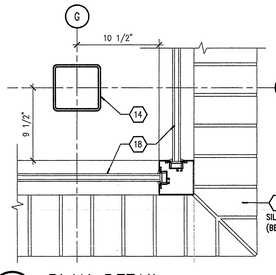
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1-1/2" = 1'-0"



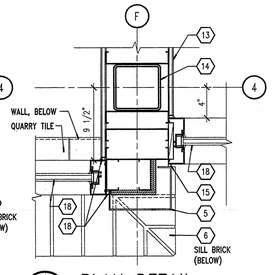
C5 PLAN DETAIL
1-1/2" = 1'-0"



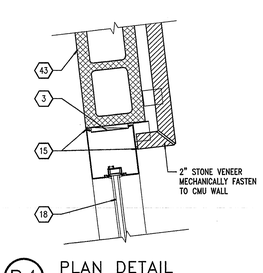
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1-1/2" = 1'-0"



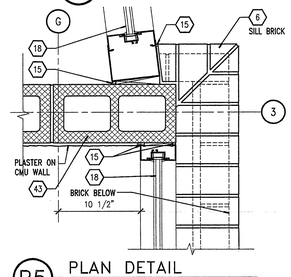
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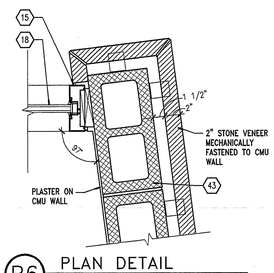
B3 PLAN DETAIL
1-1/2" = 1'-0"



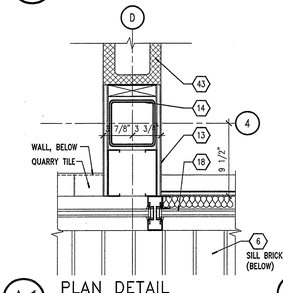
B4 PLAN DETAIL
1-1/2" = 1'-0"



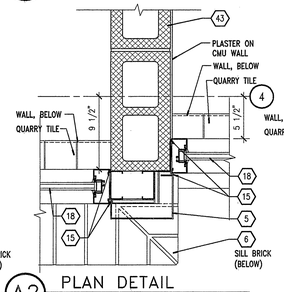
B5 PLAN DETAIL
1-1/2" = 1'-0"



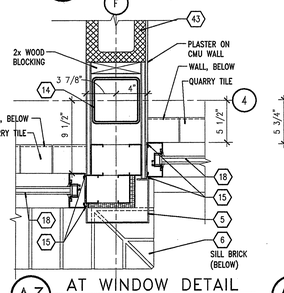
B6 PLAN DETAIL
1-1/2" = 1'-0"



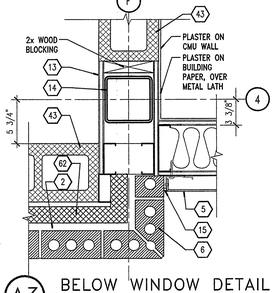
A1 PLAN DETAIL
1-1/2" = 1'-0"



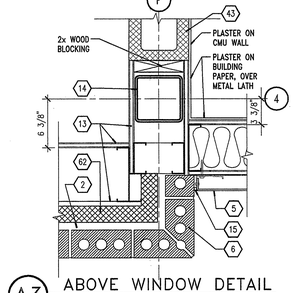
A2 PLAN DETAIL
1-1/2" = 1'-0"



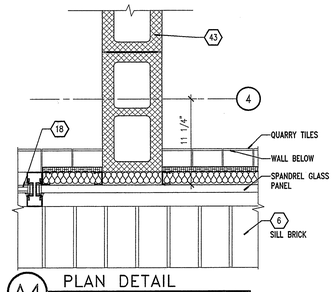
A3 AT WINDOW DETAIL
1-1/2" = 1'-0"



A3 BELOW WINDOW DETAIL
1-1/2" = 1'-0"



A3 ABOVE WINDOW DETAIL
1-1/2" = 1'-0"



A4 PLAN DETAIL
1-1/2" = 1'-0"

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF FINISH FROM PARTITIONS & FURRED WALLS & TO FACE OF MASONRY

B. REFER TO PARTITION, DOOR AND WINDOW SCHEDULES FOR DIMENSIONS OF SCHEDULED ITEMS

C. 4" TYP JAMB OFFSET FOR ALL DOORS UNLESS OTHERWISE NOTED

D. REFER TO G101 CODE DWGS FOR GRAPHIC REPRESENTATION OF FIRE RESISANT RATED WALLS

E. GENERAL CONTRACTOR & SUBCONTRACTORS TO COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL & ELECTRICAL ALL EXIST CONDITIONS NOT NOTED ON DWGS

F. CONTRACTOR SHALL VERIFY ALL DIMENSIONS + REPORT ANY DISCREPANCIES TO THE ARCHITECT

SHEET KEYNOTES

1 NEW MEMBRANE ROOFING SYSTEM
2 1" AIR SPACE
3 NEW TREATED WOOD BLOCKING
4 NEW METAL FASCIA
5 METAL PANEL
6 BRICK VENEER WITH METAL TIES
7 NOT USED.
8 6" METAL STUD (SEE STRUCTURAL)
9 BATT. INSULATION
10 NEW SUSPENDED ACOUSTICAL TILE CEILING. SEE FINISH SCHEDULE.
11 NEW FINISH FLOOR. SEE FINISH SCHEDULE.
12 NEW SOFFIT OF SUSPENDED LATH AND PLASTER
13 5/8" GYPSUM BOARD ON STEEL STUDS
14 STRUCTURAL STEEL. SEE STRUCTURAL SHEETS.
15 SEALANT W/ BACKER ROD AS REQUIRED
16 CONCRETE SLAB ON GRADE (SEE STRUCTURAL)
17 NEW BASE. SEE FINISH SCHEDULE
18 SCHEDULED WINDOW
19 EXTENDED ALUMINUM WINDOW FRAME
20 EXISTING REINFORCED CONCRETE SLAB ON CORRUGATED METAL DECK
21 3" METAL DECK. SEE STRUCTURAL SHEETS
22 1/2" WOOD FIBERBOARD
23 FULLY ADHERED MEMBRANE ROOFING SYSTEM
24 ALUMINUM COMPOSITE FASCIA PANEL
25 ALUMINUM COMPOSITE SOFFIT PANEL
26 BENT FRAME OF W21X44. SEE STRUCTURAL SHEETS.
27 R30 BATT INSULATION
28 3/4" TREATED PLYWOOD
29 METAL JOISTS. SEE STRUCTURAL SHEETS FOR SPACING, DEPTH AND GAUGE.
30 CURTAIN WALL GLAZING SYSTEM
31 6" HIGH CURB OF TREATED WOOD BLOCKING WRAP INSIDE & OUT W/ ALUMINUM BREAK METAL TO MATCH CURTAIN WALL SYSTEM
32 REINFORCED CMU LINTEL ABOVE KNOCK OUT PANEL. SEE STRUCTURAL SHEETS.
33 8" CMU WALL. SEE STRUCTURAL SHEETS.
34 5/8" EXTERIOR GYPSUM SHEATHING
35 SUSPENDED GYPSUM BOARD CEILING
36 2" POURED IN PLACE CONCRETE TOPPING
37 ALUMINUM GYPSUM BOARD REVEAL
38 CMU KNOCK OUT PANEL FOR CONNECTION TO FUTURE ADDITION
39 PERFORATED WOOD PANEL CEILING ON HAT CHANNELS ON JOISTS
40 CONCRETE STEM WALL & FOOTING. SEE STRUCTURAL.
41 1/2" EXPANSION MATERIAL. SEE STRUCTURAL SHEETS.
42 NEW CONCRETE SLAB ON GRADE. SEE STRUCTURAL SHEETS.
43 CMU WALL. SEE STRUCTURAL SHEETS.
44 STAIR LANDING. SEE STAIR DETAILS
45 STEEL COLUMN. SEE STRUCTURAL SHEETS.
46 1" RIGID INSULATION
47 EXISTING GRADE
48 FINISH GRADE. SEE CIVIL SHEETS.
49 PRECAST HOLLOW CORE CONCRETE PANEL. SEE STRUCTURAL SHEETS.
50 SPANDREL PANEL. SEE WINDOW TYPES SHEETS.
51 NEW CONCRETE PAVEMENT. SEE CIVIL SHEETS.
52 VERMICULITE FILLED BLOCK – TYP. ON ALL EXT. WALLS
53 ROOF DRAIN. SEE ROOF PLAN.
54 ROOF DRAIN LEADER. SEE MECHANICAL SHEETS.
55 1/2 " DIRECT APPLIED INTERIOR PLASTER SYSTEM CONSISTING OF FIBERED BASECOAT AND FIBERED FINISH COAT. SMOOTH TROWELED FINISH.
56 EXISTING WINDOW
57 ANCHOR CURTAIN WALL TO STEEL BEAM AT EACH VERTICAL MULLION.
58 HAT CHANNEL
59 SOLID WOOD TRIM PIECE / PLASTER STOP. STAIN TO MATCH WALL PANELS.
60 EXPOSED GLAZED BLOCK
61 FURR OUT BEAM DIMENSIONS AS SHOWN WITH STEEL STUDS AND GYP. BD.
62 2" RIGID INSULATION

WALL TYPES

12" CMU FULL HEIGHT GROUT ALL CELLS
8" CMU FULL HEIGHT
8" CMU FULL HEIGHT GROUT ALL CELLS

NOTE: 8" CMU WALL RECEIVES 5/8" GYP. BD. ON HAT CHANNELS TO CEILING HEIGHT AT ONE SIDE OF WALL

3 TRIPLE GLAZING ONE LAYER SHALL BE LAMINATED. INSULATE ALUMINUM FRAMING.

P1 CMU WITH PLASTER ON CORRIDOR SIDE, PAINTED OTHER SIDE
P2 CMU WITH SPECTRA GLAZE ON ONE SIDE, PAINTED OTHER SIDE
P2A CMU WITH SPECTRA GLAZE ON BOTH SIDES
P3 NOT USED
P4 NOT USED
P5 PAINTED CMU (ACOUSTIC PANELS BY OWNER LATER)
P6 6" STUD WITH PLASTER
P7 DOUBLE 4" STUD WALL AT 16" O.C. ON 8" TRACK, 4" BATT INSULATION, DOUBLE 5/8" GYP. BD. EACH SIDE OF WALL, FULL HEIGHT
P8 SAME AS P7 EXCEPT CORRIDOR SIDE WITH PLASTER

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Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

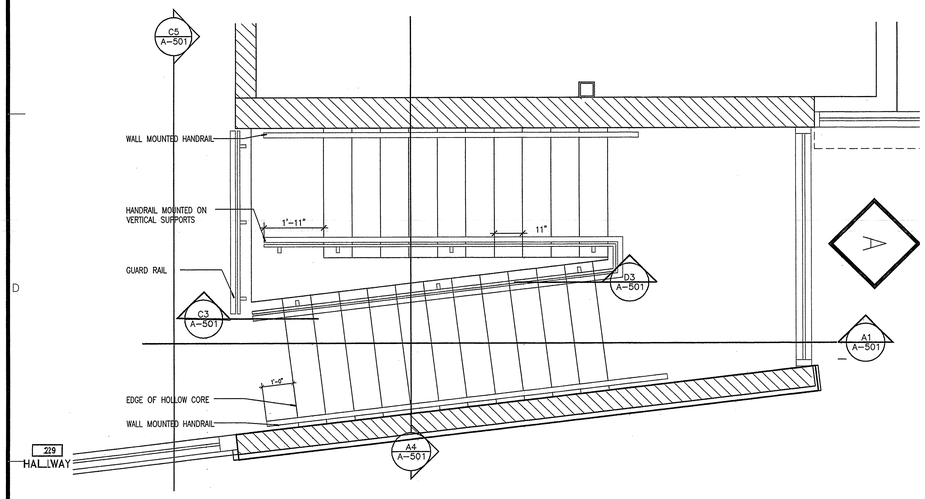
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PROJECT NO:	0335P2
CAD DWG FILE:	0335-a101.dwg
DRAWN BY:	CAD
CHECKED BY:	PROJECT ARCH
DATE:	11/08/04

SHEET TITLE

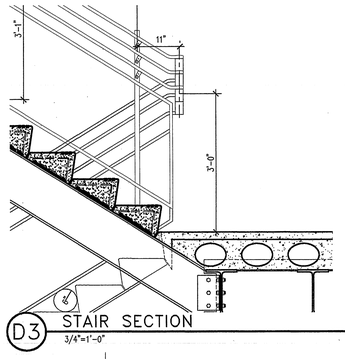
ENLARGED FLOOR PLAN AND ENLARGED PLAN DETAILS

A-401
sheet of . sheets

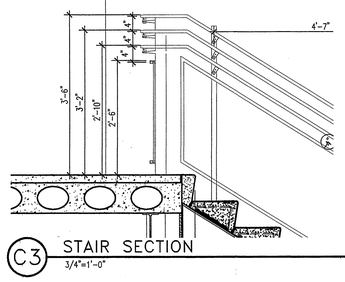
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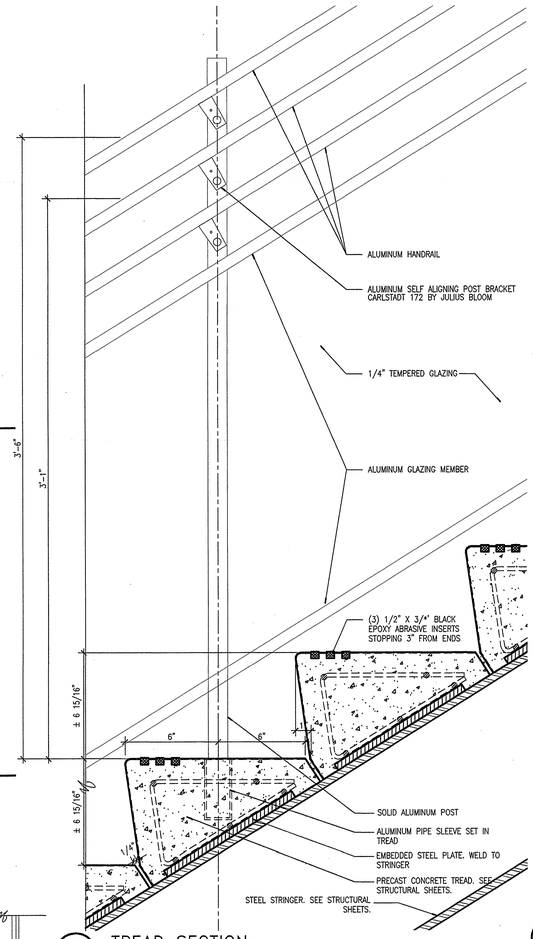
C1 ENLARGED STAIR PLAN
1/2"=1'-0"
(23 RISERS, 13'-4" FLOOR TO FLOOR DISTANCE)



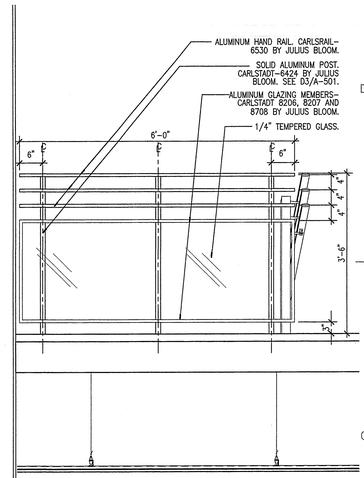
D3 STAIR SECTION
3/4"=1'-0"



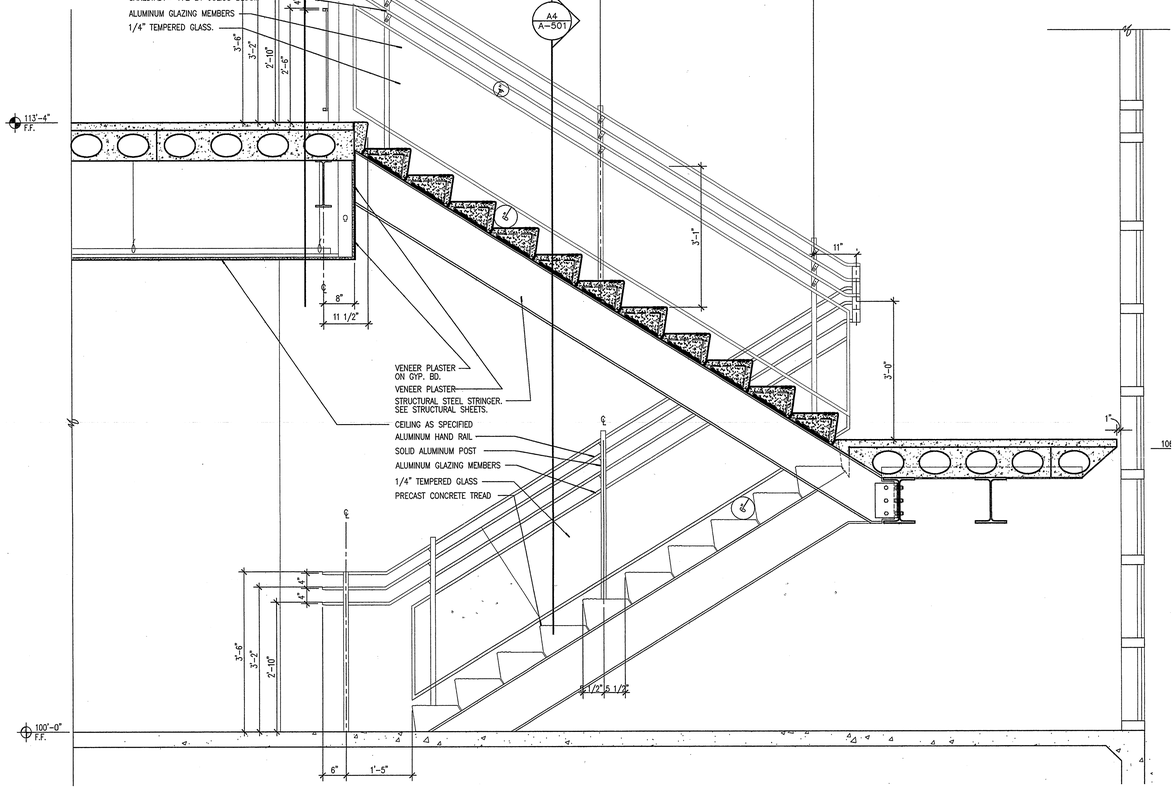
C3 STAIR SECTION
3/4"=1'-0"



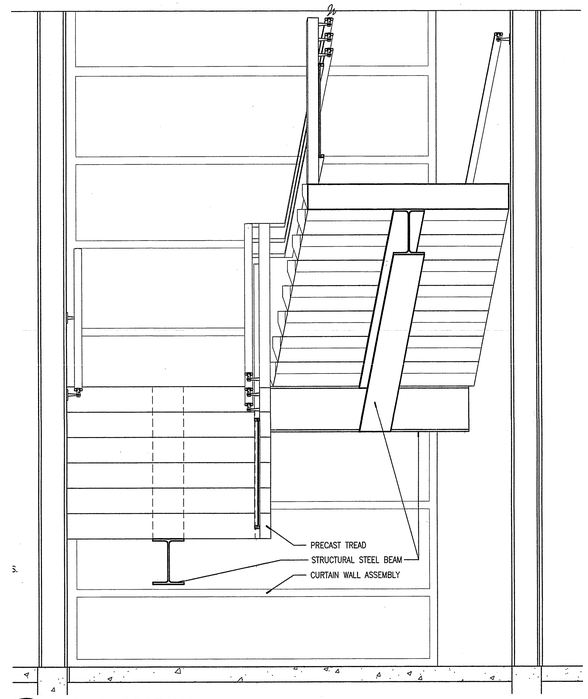
C4 TREAD SECTION
3"=1'-0"



C5 GUARD RAIL
3/4"=1'-0"



A1 STAIR SECTION
3/4"=1'-0"



A4 STAIR SECTION
3/4"=1'-0"

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Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335-A501.DWG
DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

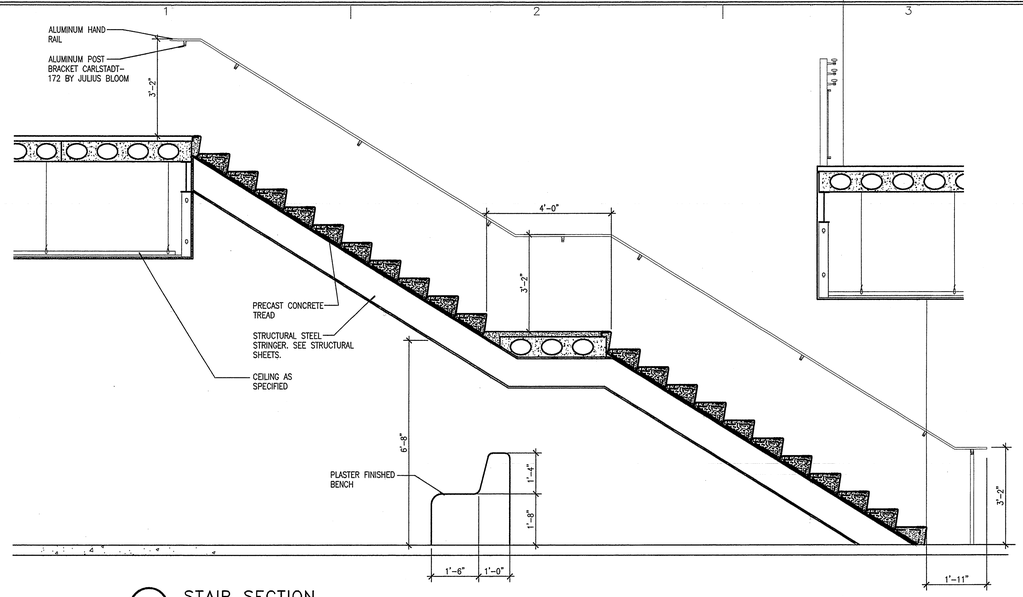
SHEET TITLE

STAIR SECTIONS & DETAILS

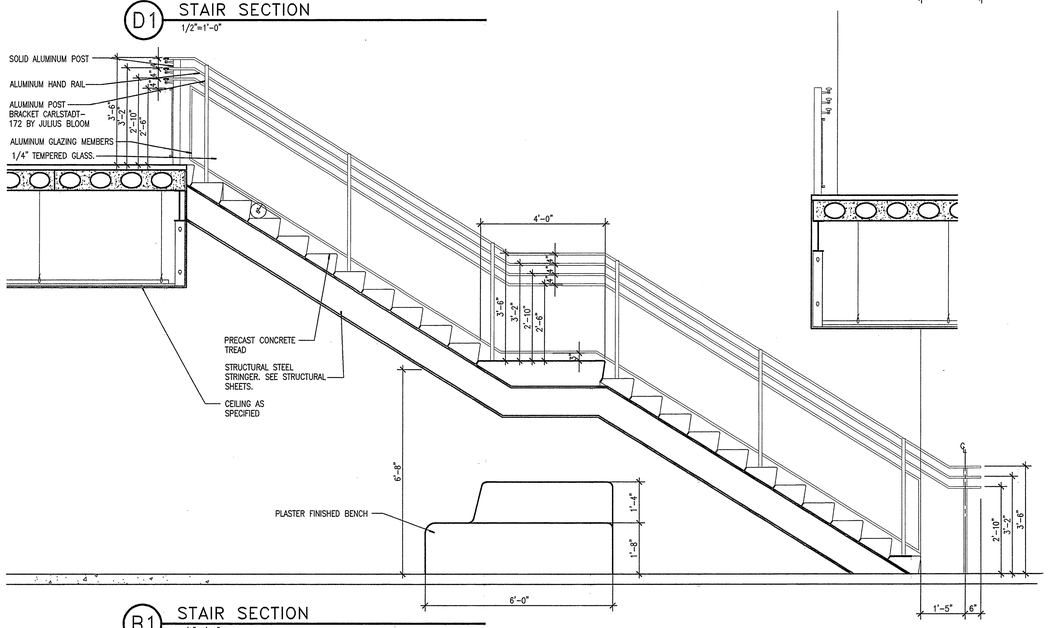
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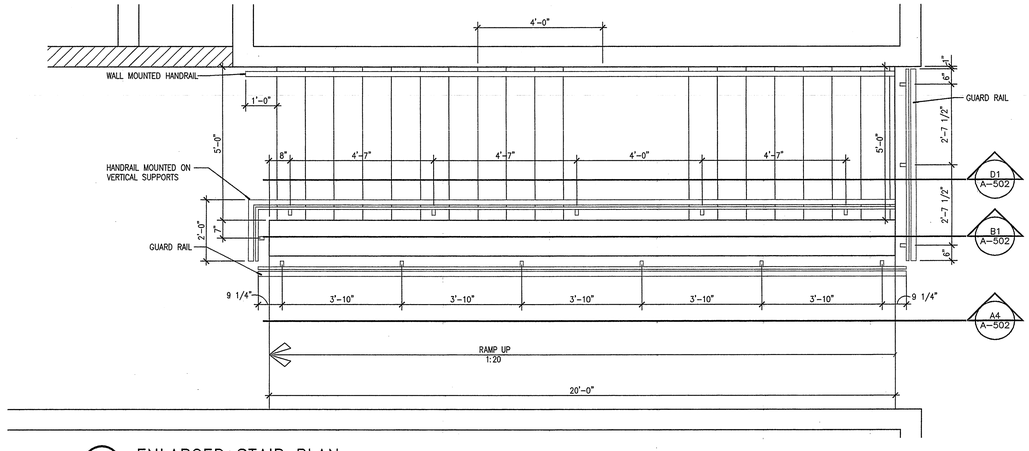
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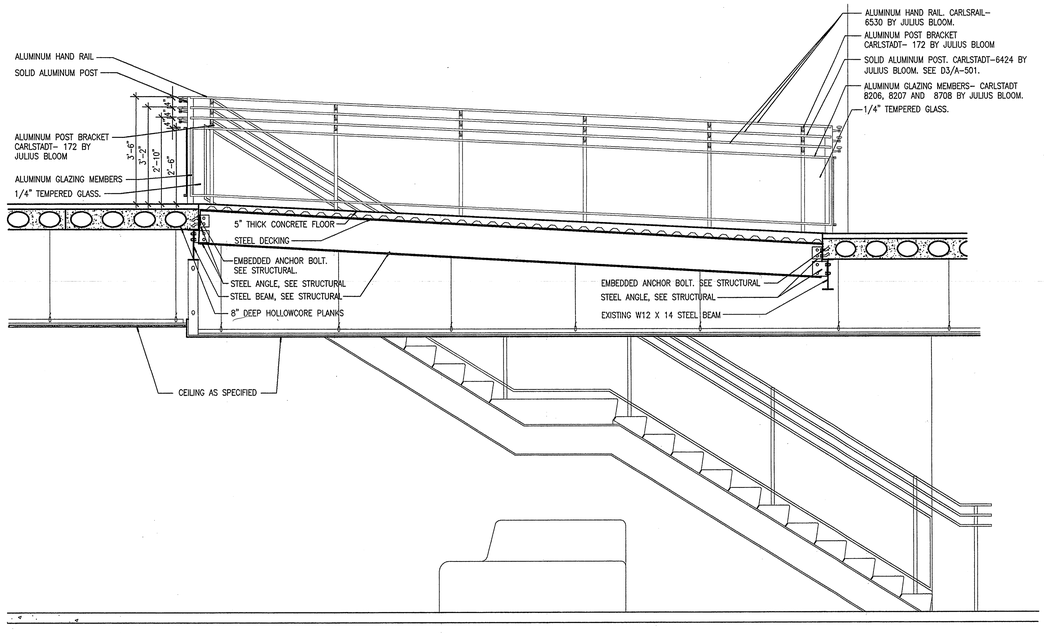
D1 STAIR SECTION
1/2"=1'-0"



B1 STAIR SECTION
1/2"=1'-0"



A1 ENLARGED STAIR PLAN
1/2"=1'-0"
(23 RISERS, 13'-4" FLOOR TO FLOOR DISTANCE)



A4 RAMP SECTION
1/2"=1'-0"

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335-A501.DWG
DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

SHEET TITLE

STAIR SECTIONS & DETAILS

A-502

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DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	PAIR	* ACOUSTIC	FIRE RATING	DOOR GEOMETRY	DOOR MATL.	DOOR FINISH	GLASS TYPE	FRAME GEOMETRY	FRAME MATL.	FRAME FINISH	GLASS TYPE	HEAD DET	JAMB DET	THRESHOLD DETAIL	HARWARE SET	REMARKS	SIGN TYPE	SIGNAGE TEXT (SEE NOTE BELOW
123	EQPM. CHECKOUT	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					A	
124A	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					C	
124B	OFFICE	2'-0"	7'-0"	PR			A	HCW	FF		DD	HM	PT		C2D/A353						
125A	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					C	
125B	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					C	
126A	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					C	
126B	OFFICE	2'-0"	7'-0"	PR			F	HCW	FF		DD	HM	PT		C2D/A353						
127A	PIANO STUDIO	3'-2"	7'-0"	PR			H	SCW	FF		GG	HM	PT		C2D/A353				CARD READER	A	
127B	PIANO STUDIO	3'-0"	7'-0"	PR			A	HCW	FF		CC	HM	PT		C2D/A353					A	
128	PRACTICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER	A	
129	PRACTICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER	A	
130	PRACTICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER	A	
131	PRACTICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER		
132A	HALLWAY	3'-6"	7'-0"	PR	*		B	SGC	FF		CC	HM	PT		C2D/A353				CARD READER		
132B	HALLWAY	3'-6"	7'-0"		*		B	SGC	FF		BB	HM	PT		C2D/A353				CARD READER		
132C	HALLWAY	3'-6"	8'-0"	PR			D	AL	FF		CW	–	–		–				PART OF CURTAIN WALL ASSSEMBLY		
135	CLOSET	3'-0"	7'-0"				A	HCW	FF		AA	HM	PT		C2B/A353					A	
136	CONTROL ROOM	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
138	CLOSET	3'-0"	7'-0"				A	HCW	FF		AA	HM	PT		C2B/A353					A	
139	CONTROL ROOM	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
140	STUDIO B	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
141	POD B	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
142	POD A	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
143	CONTROL B	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
144A	STUDIO A	3'-6"	7'-0"	PR	*		B	SGC	FF		CC	HM	PT		C2B/A353					A	
144B	STUDIO A	3'-6"	7'-0"	PR	*		B	SGC	FF		CC	HM	PT		C2B/A353					A	
145	CONTROL A	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
146	ISO STUDIO	3'-0"	7'-0"		*		A	SGC	FF		AA	HM	PT		C2B/A353					A	
147A	WORLD MUSIC	3'-6"	7'-0"	PR	*		B	SGC	FF		CC	HM	PT		C2D/A353					A	
147B	WORLD MUSIC	25'-0"	7'-0"				–	–	–		–	–	–		B1/A353				SECURITY GATE & FRAME – SEE MAN.		
147C	WORLD MUSIC	3'-0"	7'-0"	PR			A	SGC	FF		EE	HM	PT		C2D/A353					A	
148	VESTIBULE	3'-6"	7'-0"	PR	*		B	SGC	FF		CC	HM	PT		C2D/A353				CARD READER	A	
149	STORAGE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					A	
150	STORAGE	3'-6"	7'-0"	PR			B	SCW	FF		CC	HM	PT		C2D/A353						
151A	MULTI PURPOSE	3'-0"	7'-0"	PR			A	SCW	FF		EE	HM	PT		C2D/A353						
151B	MULTI PURPOSE	3'-0"	9'-2"				E	AL	FF		SF	–	–		–				STORE FRONT ASSSEMBLY – SEE A611	C	
151C	MULTI PURPOSE	24'-0"	12'-0"				I	AL	FF		HH	AL	AN		–				VERIFY DOOR/FRAME W/ MANUFACTURE	C	
234	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					C	
235	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					C	
236A	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					A	
236B	OFFICE	2'-0"	7'-0"	PR			F	SCW	FF		DD	HM	PT		C2D/A353					A	
237A	OFFICE	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					A	
237B	OFFICE	2'-0"	7'-0"	PR			F	SCW	FF		DD	HM	PT		C2D/A353					A	
238A	COMPOSITION STUDIO	3'-2"	7'-0"	PR			H	SCW	FF		GG	HM	PT		C2D/A353				CARD READER	A	
238B	COMPOSITION STUDIO	3'-0"	7'-0"	PR			A	SCW	FF		EE	HM	PT		C2D/A353						
239	PRACTICE A	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER		
240	PRACTICE D	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER	A	
241	PRACTICE B	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER	A	
242	PRACTICE C	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353				CARD READER	A	
243 A	HALLWAY	3'-6"	7'-0"	PR			B	SCW	FF		CC	HM	PT		C2D/A353				CARD READER		
243 B	HALLWAY	4'-0"	7'-0"				G	AL	FF		FF	AL	AN		C2D/A353				CARD READER		
245	COMPUTER LAB	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					A	
246	CLASSROOM	4'-0"	7'-0"				C	SCW	FF		DD	HM	PT		C2D/A353					A	
247	TEACHING STUDIO	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353					A	
248	TEACHING STUDIO	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT		C2D/A353						
249	CLASSROOM	4'-0"	7'-0"				C	SCW	FF		DD	HM	PT		C2D/A353						
250	TEACHING STUDIO PERCUSSION	4'-0"	7'-0"				C	SCW	FF		DD	HM	PT		C2D/A353						
251	PIANO LAB	4'-0"	7'-0"				C	SCW	FF		DD	HM	PT								
252	TEL/COM	3'-0"	7'-0"				A	SCW	FF		AA	HM	PT								

ROOM SIGNAGE

SIGN TYPE	SIGNAGE TEXT (SEE NOTE BELOW
A	
C	

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	WALL , MATERIAL AND FINISH NORTH	SOUTH	EAST	WEST	CEILING	FLOOR FINISH	BASE FINISH	REMARKS
123	EQPM. CHECKOUT	CMU	CMU	CMU	CMU	A.T.	concrete	vinyl	
124	OFFICE	CMU	CMU	CMU	CMU	A.T.	carpet	vinyl	
124A	CLOSET	CMU	G.B	G.B.	CMU	A.T.	carpet	vinyl	
125	OFFICE	CMU	CMU	CMU	–	A.T.	carpet	vinyl	
126	OFFICE	CMU	CMU	CMU	CMU	A.T.	carpet	vinyl	
126A	CLOSET	G.B.	CMU	G.B.	CMU	A.T.	carpet	vinyl	
127	PIANO STUDIO	CMU	CMU	CMU	G.B.	A.T.	carpet	vinyl	A.P.
127A	CLOSET	G.B.	CMU	G.B.	CMU	A.T.	carpet	vinyl	
128	PRACTICE A	G.B.	G.B.	G.B.	CMU	A.T.	carpet	vinyl	A.P.
129	PRACTICE D	CMU	CMU	CMU	CMU	A.T.	carpet	vinyl	A.P.
130	PRACTICE B	CMU	CMU	CMU	CMU	A.T.	carpet	vinyl	A.P.
131	PRACTICE C	CMU	CMU	CMU	CMU	A.T.	carpet	vinyl	A.P.
132	HALLWAY	CMU	CMU	–	–	A.T.	concrete	vinyl	
133	HALLWAY	–	CMU	CMU	CMU	A.T.	concrete	vinyl	
134	HALLWAY	–	CMU	CMU	CMU	A.T.	concrete	vinyl	
135	CLOSET	CMU	CMU	CMU	CMU	gyp. bd.	concrete	vinyl	
136	VESTIBULE	CMU	CMU	CMU	CMU	gyp. bd.	concrete	vinyl	
137	CONTROL ROOM	CMU	CMU	CMU	CMU	gyp. bd.	concrete	vinyl	
138	CLOSET	CMU	CMU	CMU	CMU	gyp. bd.	concrete	vinyl	
139	VESTIBULE	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
140	STUDIO B	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
141	POD B	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
142	POD A	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
143	CONTROL B	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
144	STUDIO A	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
145	CONTROL A	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
146	ISO STUDIO	CMU	CMU	CMU	CMU	gyp. bd.	carpet	vinyl	
147	WORLD MUSIC	CMU	CMU	CMU	CMU	gyp. bd.	wood	vinyl	SPRUNG WOOD FLOOR
147.1	CLOSET	CMU	G.B	CMU	G.B	gyp. bd.	wood	vinyl	SPRUNG WOOD FLOOR
148	VESTIBULE	CMU	CMU	CMU	CMU	gyp. bd.	concrete	vinyl	
149	STORAGE	CMU	CMU	CMU	CMU	EXPOSED	concrete	vinyl	
150	STORAGE	–	CMU	CMU	CMU	EXPOSED	concrete	vinyl	
151	MULTI-PURPOSE	CMU	CMU	CMU	CMU	W.T.	concrete	vinyl	
234	OFFICE	CMU	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
235	OFFICE	G.B.	G.B.	G.B.	–	A.T.	carpet	vinyl	
236	OFFICE	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
236A	CLOSET	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
237	OFFICE	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
237A	CLOSET	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
238	COMPOSITION STUDIO	CMU	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
238A	CLOSET	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
239	PRACTICE A	CMU	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
240	PRACTICE D	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
241	PRACTICE B	CMU	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
242	PRACTICE C	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
243	HALLWAY	CMU	CMU	–	–	A.T.	concrete	vinyl	
244	HALLWAY	–	G.B.	G.B.	G.B.	gyp. bd.	concrete	vinyl	PRECAST STAIR TREAD, CONCRETE FLOOR
245	COMPUTER LAB	G.B.	CMU	G.B.	G.B.	A.T	carpet	vinyl	
246	CLASSROOM	G.B.	G.B.	G.B.	G.B.	EXPOSED	carpet	vinyl	
247	TEACHING STUDIO	G.B.	CMU	G.B.	G.B.	A.T.	carpet	vinyl	
248	TEACHING STUDIO	G.B.	G.B.	G.B.	G.B.	A.T.	carpet	vinyl	
249	CLASSROOM	G.B.	G.B.	G.B.	G.B.	EXPOSED	carpet	vinyl	
250	TEACHING STUDIO PERCUSSION	G.B.	CMU	G.B.	G.B.	A.T.	carpet	vinyl	
251	PIANO LAB	G.B.	G.B.	G.B.	G.B.	EXPOSED	carpet	vinyl	
252	TEL/COM	G.B.	CMU	G.B.	CMU	EXPOSED	concrete	vinyl	
253	HALL	G.B.	G.B.	G.B.	G.B.	G.B./CMU	gyp. bd.	concrete	vinyl
254	HALL	–	G.B.	G.B.	G.B.	gyp. bd.	concrete	vinyl	
255	HALL	G.B.	G.B.	G.B.	G.B.	gyp. bd.	concrete	vinyl	

ROOM FINISH SCHEDULE LEGEND

A.P. = ACOUSTIC PANELS BY OWNER

A.T. = ACOUSTIC TILE

CMU = CONCRETE MASONRY UNIT (CONCRETE BLOCK)

G.B. = GYPSUM BOARD

W.T. = ACOUSTIC WOOD TILE

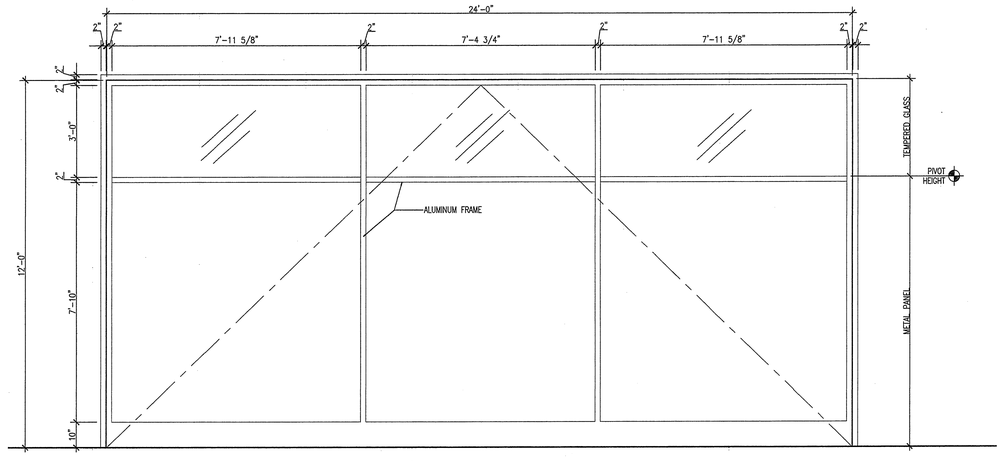
NOTE: ALL CARPET TO BE ANTI-STATIC

DOOR SCHEDULE LEGEND

HM	HOLLOW METAL
SCW	SOLID CORE WOOD
PT	PAINTED
AN	ANODIZED
ST	STAINED
CS	CLEAR SEAL
FF	FACTORY FINISH
CLR	CLEAR
AL	ALUMINUM
T	TEMPERED GLASS
TINT	TINTED GLASS
THERM	2 LAYERS 1/4" GLASS WITH 1/2" AIRSPACE
L	LAMINATED GLASS
FR	FIRE RATED
LOUV	LOUVERS
EX	EXISTING
CW	CURTAIN WALL SYSTEM
SF	STOREFRONT SYSTEM
*	FOR ALL ACOUSTIC DOORS PROVIDE SGC GYPSUM CORE WOOD VENEER WITH SMOKE SEALS + DROP THRESHOLDS

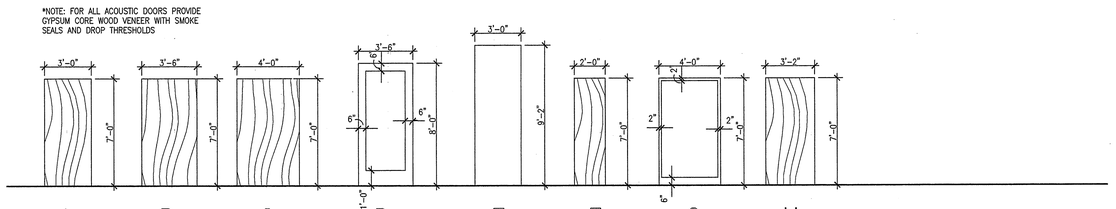
GENERAL NOTES

A SEE FLOOR PLAN SHEET FOR DOOR AND DOOR FRAME NUMBERS.
B FIELD VERIFY ALL FRAME DIMENSIONS.
C REFER TO CODE SHEET FOR REQUIRED FIRE RATINGS OF BUILDING ELEMENTS AND ASSEMBLIES. FIRESTOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES.
D SEE SHEETS A111 AND A112 FOR CEILING HEIGHTS AND CEILING FINISHES.

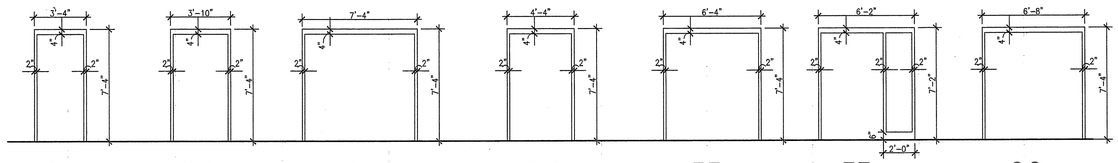


I / HH

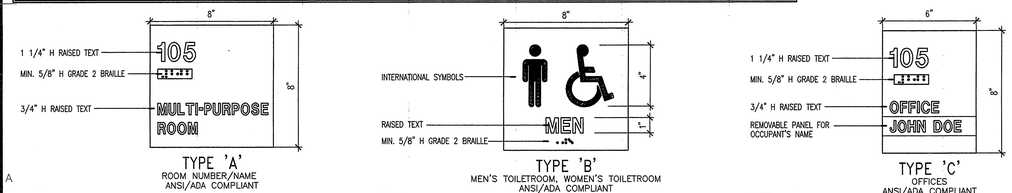
C4 HORIZONTAL PIVOTING DOOR
SCALE: 1/2"=1'



B4 DOOR TYPES
SCALE: 1/4"=1'



A4 DOOR FRAME TYPES
SCALE: 1/4"=1'



TYPE 'A'
ROOM NUMBER/NAME
ANSI/ADA COMPLIANT

NOTES:
1. MOUNT SIGN PANELS WITH SCREWS AND EXPANSION SLEEVES AS REQUIRED.
2. TYPE FACE SHALL BE HELVETICA MEDIUM, UPPER AND LOWER CASE.
3. MOUNTING HEIGHT SHALL BE 60 IN (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
4. SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF DOOR.
5. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL.
6. MOUNTING LOCATION SHALL BE SUCH THAT A PERSON MAY APPROACH WITHIN 3 IN (76 MM) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

TYPE 'B'
MEN'S TOILETROOM, WOMEN'S TOILETROOM
ANSI/ADA COMPLIANT

NOTES:
1. MOUNT SIGN PANELS WITH SCREWS AND EXPANSION SLEEVES AS REQUIRED.
2. TYPE FACE SHALL BE HELVETICA MEDIUM, UPPER AND LOWER CASE.
3. MOUNTING HEIGHT SHALL BE 60 IN (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
4. SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF DOOR.
5. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL.
6. MOUNTING LOCATION SHALL BE SUCH THAT A PERSON MAY APPROACH WITHIN 3 IN (76 MM) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
7. PROVIDE (1/32") RAISED GRAPHIC W/BRAILLE FOR TOILET ROOMS.

TYPE 'C'
OFFICES
ANSI/ADA COMPLIANT

NOTES:
1. MOUNT SIGN PANELS WITH SCREWS AND EXPANSION SLEEVES AS REQUIRED.
2. TYPE FACE SHALL BE HELVETICA MEDIUM, UPPER AND LOWER CASE.
3. MOUNTING HEIGHT SHALL BE 60 IN (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
4. SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF DOOR.
5. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL.
6. MOUNTING LOCATION SHALL BE SUCH THAT A PERSON MAY APPROACH WITHIN 3 IN (76 MM) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

A1 ROOM SIGN TYPES
SCALE: 3"=1'

DCSW ARCHITECTS
DESIGN COLLABORATIVE SOUTHWEST, INC.
320 Central Ave., SW, Albuquerque, NM 87102
505.843.9639 Fax.505.843.9683
Web Site: www.dcswarchitects.com
E-Mail: dcsw@dcswarchitects.com

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CONSULTANTS

Architect Engineer

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335PH2-A601
DRAWN BY:	
CHECKED BY:	SA
DATE:	11/08/04

BENILDUS HALL PHASE 2

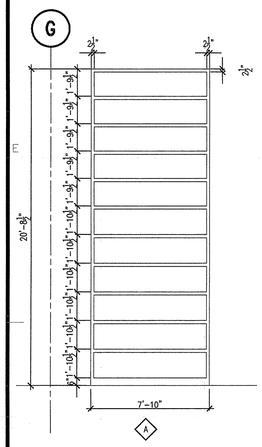
COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

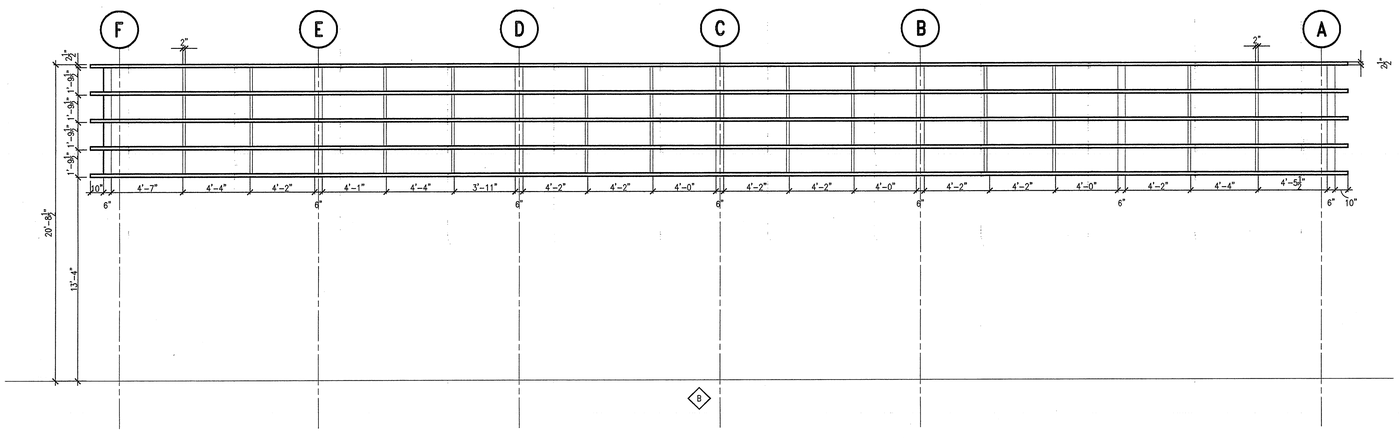
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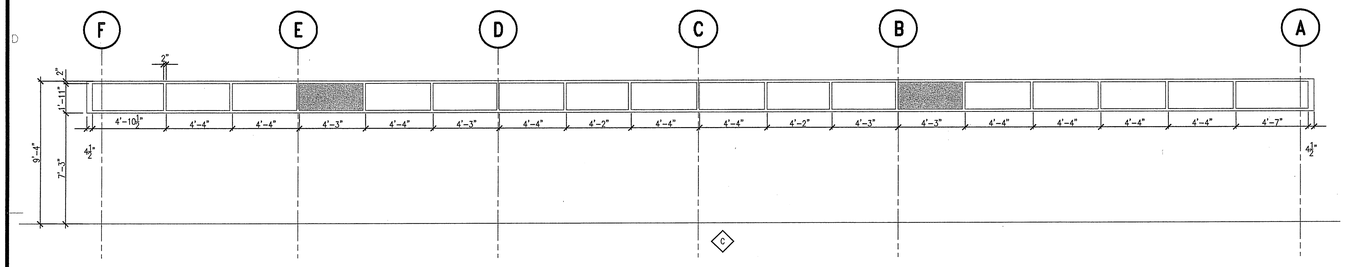
DOOR SCHEDULE, DOOR AND DOOR FRAME TYPES AND ROOM FINISH SCHEDULE

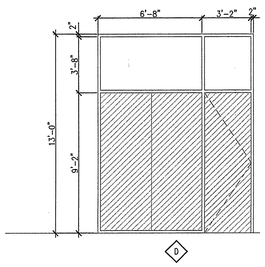
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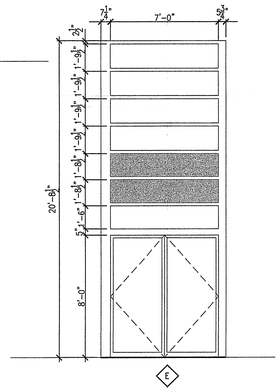
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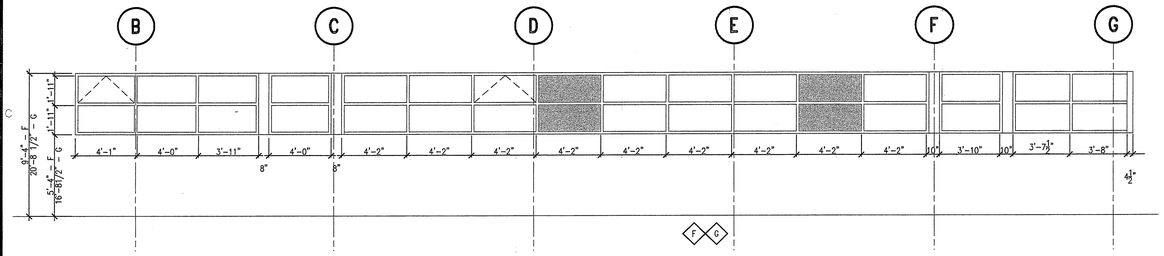


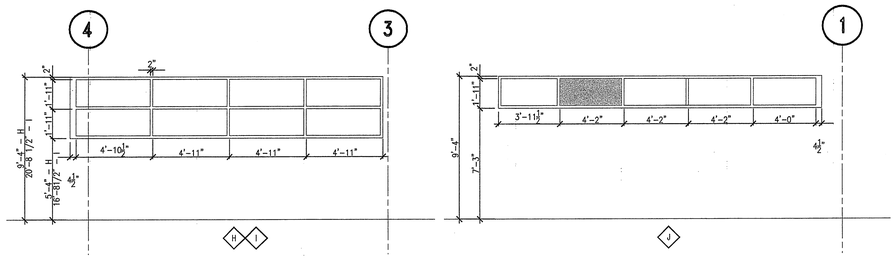


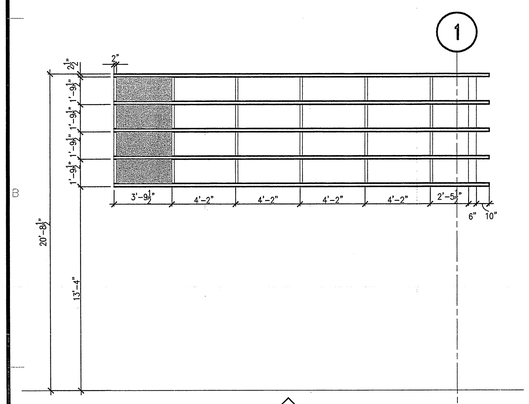


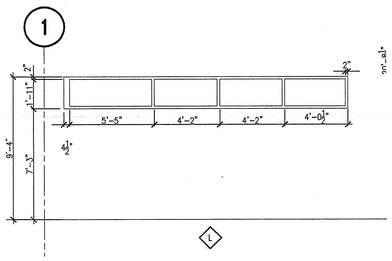


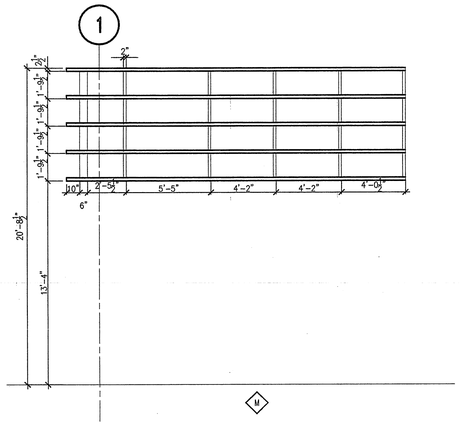


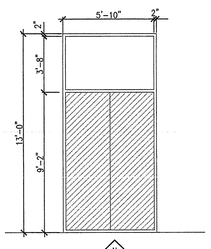




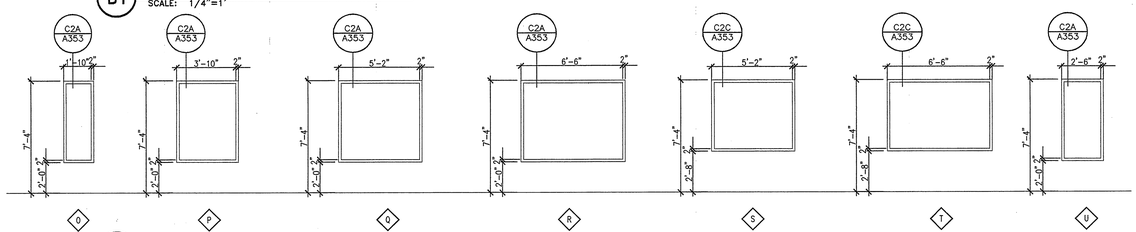








B1 **EXTERIOR WINDOW SCHEDULE**
SCALE: 1/4"=1'



A1 **INTERIOR WINDOW SCHEDULE**
SCALE: 1/4"=1'

GENERAL NOTES

A SEE FLOOR PLAN SHEETS FOR WINDOW TYPE TAGS.
B FIELD VERIFY ALL FRAME DIMENSIONS.
C ALL WINDOW FRAMES SHALL BE OF CLEAR ANODIZED ALUMINUM
D STOREFRONT UNLESS OTHERWISE NOTED

WINDOW TYPE LEGEND

SPANDREL GLAZING

VISION GLASS – 1" THK CLEAR INSULATED GLASS WITH LOW E TINT FILM – TEMPER AS REQUIRED

DCSW ARCHITECTS
DESIGN COLLABORATIVE SOUTHWEST, INC.
320 Central Ave., SW, Albuquerque, NM 87102
505.843.9639 Fax.505.843.9683
Web Site: www.dcswarchitects.com
E-Mail: dcsw@dcswarchitects.com

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CONSULTANTS

Architect Engineer

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	0335–A201.DWG
DRAWN BY:	
CHECKED BY:	
DATE:	11/08/04

SHEET TITLE
WINDOW SCHEDULE

A602
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MECHANICAL SYMBOL LEGEND - (NOT ALL SYMBOLS MAY BE USED)

DUCTWORK SYMBOLS

	FLEX DUCT
[508x305 AL] 20"x12" AL	DUCT w/ ACOUSTICAL LINING — DUCT DIMENSION IS NET FREE AREA
	MANUAL VOLUME DAMPER
	FIRE DAMPER (VERTICAL OR HORIZONTAL)
	SMOKE / FIRE DAMPER (VERTICAL OR HORIZONTAL)
	CONNECT NEW DUCT TO EXISTING
[508x305 AL] 20"x12" AL	EXISTING DUCT TO BE REMOVED
	FLEX CONNECTION
	VANED ELBOW (PROVIDE VANES IN ALL SQUARE OR RECTANGULAR ELBOWS U.N.O.)
	VANED SHORT RADIUS ELBOW
UP	RISE IN DIRECTION OF ARROW
F50	TYPICAL SUPPLY AIR TEE WITH SPLITTER DAMPER
RE 45°	STANDARD 1½" RECTANGLE DUCT BRANCH
	STANDARD ROUND BRANCH DUCT (SPIN-IN)
	STANDARD CONCENTRIC DUCT TRANSITION
	STANDARD ECCENTRIC DUCT TRANSITION
	ROUND DUCT SECTION
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	EXHAUST DUCT SECTION
	DUCT ACCESS DOOR
	CEILING SUPPLY DIFFUSER — THROW PATTERN IF OTHER THAN 4-WAY
	CEILING EXHAUST REGISTER OR GRILLE
	CEILING RETURN REGISTER OR GRILLE
	SIDEWALL SA, RA, OR EXH GRILLE OR REGISTER
	CEILING SUPPLY DIFFUSER (SINGLE LINE)
	CEILING EXHAUST REGISTER OR GRILLE (SINGLE LINE)
	CEILING RETURN REGISTER OR GRILLE (SINGLE LINE)
	SIDEWALL SA, RA, OR EXH GRILLE REGISTER
	1½" X BRANCH DUCT
	SQUARE 90° ELBOW
	RADIUS TYPE 90° ELBOW
	DUCT TRANSITION
12"x12" 305x305	INDICATES A 12"x12" SQUARE DUCT (NET FREE AREA) [305mm x 305mm]
12Ø 305Ø	INDICATES A 12" ROUND DUCT (NET FREE AREA) [305mm]
24"x12Ø 610x305	INDICATES A 24"x12" OVAL DUCT (NET FREE AREA) [610mm x 305mm]

CONTROL SYMBOLS

T	ROOM THERMOSTAT
H	ROOM HUMIDSTAT
M	MAIN CONTROL AIR
T	TEMPERATURE SENSOR/TRANSMITTER
H	HUMIDITY SENSOR/TRANSMITTER
PE	PNUEMATIC-ELECTRIC RELAY
SD	DUCT SMOKE DETECTOR
FR	FREEZESTAT
FS	FLOW SWITCH
R	RELAY
M	POWER OPERATED DAMPER MOTOR
LL	DUCT LOW LIMIT
HL	DUCT HIGH LIMIT
HT	DUCT HUMIDITY SENSOR/TRANSMITTER
T	DUCT TEMPERATURE SENSOR/TRANSMITTER
PT	PRESSURE TRANSMITTER
MS	MOTOR STARTER (LOCAL OR MCC)
SP	STATIC PRESSURE SENSOR/TRANSMITTER
DT	DIFFERENTIAL PRESSURE SENSOR/TRANSMITTER
DP	DIFFERENTIAL PRESSURE SWITCH (DIGITAL)
AQ	AQUASTAT
AE	DUCT AVERAGING ELEMENT
F M	LIQUID FLOW METER
	RECEIVER PRESSURE GAUGE (PANEL MTD.)
EP	ELECTRONIC/PNUEMATIC RELAY
CV CV	2-WAY/3-WAY CONTROL VALVE
	ELECTRIC WIRING/CONDUIT
OL	NORMALLY CLOSED OVERLOAD CONTACTS
	SWITCH
	FUSE
NO NC	CONTACT NORMALLY OPEN/CLOSED
C	COIL IN MOTOR STARTER
R	PILOT LIGHT (COLOR INDICATION)
PE	PRESSURE TO ELECTRICAL SWTICH
	TRANSFORMER

CONTROL INSTRUMENT SYMBOLS

FUNCTION / PANEL # / SWITCH TYPE / TAG # / INSTRUMENT TYPE	
	LOCALLY (FIELD) MOUNTED w/SWITCH TYPE
	MOUNTED ON PANEL w/PANEL #
	MOUNTED BEHIND PANEL
	MOUNTED ON MOTOR CONTROL CENTER
	VENDOR SUPPLIED ITEM
	EXISTING INSTRUMENT
	FMCS PROGRAMMABLE SYSTEM INTERLOCK
	LOGIC & SEQUENTIAL CONTROL GENERAL
	FUNCTIONAL USAGE
	HARDWARE INTERLOCK
ESD	EMERGENCY STOP INTERFACE
A/O	AUTO - OFF
H/A	HAND - AUTO
H/O/A	HAND - OFF - AUTO
H/O/A/L	HAND - OFF - AUTO - LIGHT
O/C/A	OPEN - CLOSE - AUTO
S/S/L	START - STOP - LIGHT
1/A/2	ONE - AUTO - TWO
1/ALT/2	ONE - ALTERNATE - TWO

PIPING ABBREVIATIONS

	SUPPLY PIPING
	RETURN PIPING
BFW	BOILER FEED WATER
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CWR	CONDENSING WATER RETURN
CWS	CONDENSING WATER SUPPLY
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MUW	MAKE-UP WATER
PC	PUMP CONDENSATE
RFS	REFRIGERANT SUCTION
RFL	REFRIGERANT LIQUID
SWR	SOLAR WATER RETURN
SWS	SOLAR WATER SUPPLY
TWR	TANK RECOVERY RETURN
TWS	TANK RECOVERY SUPPLY
V	VENT

PIPING SYMBOLS

	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	CONNECT NEW PIPE TO EXISTING
DOWN	DIRECTION OF PIPE PITCH
	DIRECTION OF FLOW
	PIPE ANCHOR
	PIPE GUIDE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	SIDE CONNECTION
	TOP CONNECTION (45° OR 90°)
	BOTTOM CONNECTION (45° OR 90°)
	RISE OR DROP IN PIPE
	RISE IN PIPE
	CAPPED PIPE
	UNION (SCREWED)
	ORIFICE UNION
	FLANGED UNION
	UNIVERSAL TEMP. PRESSURE FITTING
	STRAINER
	THERMOMETER
	PRESSURE GAGE WITH COCK
	PRESSURE GAGE WITH COCK AND PIG TAIL
	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	INVERTED BUCKET TRAP SET — INCLUDING PIPING ACC. (SEE STD. DETAILS)
	FLOAT/THERMOSTATIC TRAP SET — INCLUDING PIPING ACC. (SEE STD. DETAILS)
	THERMODYNAMIC TRAP SET
F50	STEAM TRAP ASSEM. — IF # INDICATES AMOUNT OF COND. IN #/HR. SIZE FOR 3x #
15	PRESSURE REDUCING STATION — # INDICATES # OF STAGES
[610x305] 24"x12"	ACCESS PANEL AND SIZE

VALVE SYMBOLS

	GATE VALVE
	GLOBE VALVE
	CHECK VALVE (NON SLAM)
	PLUG VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	BALL VALVE
	WATER FLOW MEASURING DEVICE
	VALVE IN RISE (TYPE)
	GATE VALVE w/ ¾" HOSE THREAD ADAPTER
	SOLENOID VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	SAFETY VALVE OR PRESSURE RELIEF VALVE
	PRESSURE RELIEF VALVE IN RISER
	BALANCING COCK
	TRAP PRIMER
	THERMOWELL w/TRANSMITTER

MECHANICAL ABBREVIATIONS (NOT ALL MAY BE USED)

AAV	AUTOMATIC AIR VENT	EA	EACH	HB	HOSE BIBB	OA	OUTSIDE AIR
AC	AIR CONDITIONING UNIT	EAT	ENTERING AIR TEMPERATURE	HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	OBD	OPPOSED BLADE DAMPER
ACFM	ACTUAL AIR (CU FT /min)	ENG	ENGINEER	HD	HAND DAMPER (VOLUMN DAMPER)	OC	ON CENTER
AD	ACCESS DOOR	EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	HP	HORSEPOWER	OPNG	OPENING
ADJ	ADJUSTABLE	ESP	EXTERNAL STATIC PRESSURE	HR	HOUR	PH	ELECTRICAL PHASE
AFF	ABOVE FINISH FLOOR	EWT	ENTERING WATER TEMPERATURE	IN	INCHES	PLBG	PLUMBING
AHU	AIR HANDLING UNIT	EXH	EXHAUST	KW	KILOWATT	PRV	PRESSURE REDUCING VALVE
AL	ACOUSTICAL LINER	°F	DEGREES IN FAHRENHEIT	KWH	KILOWATT HOUR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
ARCH	ARCHITECT	FA	FREE AREA OR FACE AREA	LAT	LEAVING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
AHJ	AUTHORITY HAVING JUSDICATION	FCO	FLOOR CLEAN OUT	LBS	POUNDS	QTY	QUANTITY
BD	BALANCING DAMPER	FCU	FAN COIL UNIT	LWT	LEAVING WATER TEMPERATURE	RA	RETURN AIR
BHP	BRAKE HORSEPOWER	FD	FLOOR DRAIN	MAX	MAXIMUM	RH	RELATIVE HUMIDITY
BOD	BOTTOM OF DUCT	FDPR	FIRE DAMPER	MBH	1,000 BTU/HOUR	RPM	ROTATIONS PER MINUTE
BOP	BOTTOM OF PIPE	FG	FILTER GAUGE	MCC	MOTOR CONTROL CENTER	SA	SUPPLY AIR
BTUH	BRITISH THERMAL UNIT / HOUR	FLEX	FLEXIBLE	MD	MANUAL DAMPER	SCD	SMOKE CONTROL DAMPER
CO	CLEAN OUT	FLR	FLOOR	MIN	MINIMUM	SCFM	STANDARD AIR (CU FT/min)
CFM	CUBIC FEET PER MINUTE	FOB	FLAT ON BOTTOM	MOD	MOTOR OPERATED DAMPER	SD	SPLITTER DAMPER
CLG	CEILING	FOD	FACE OPERATED DAMPER	N/A	NOT APPLICABLE	SDW	SINGLE DUCT VARIABLE VOLUME
COMP	COMPRESSOR	FOT	FLAT ON TOP	N.C.	NORMALLY CLOSED	SFD	SMOKE/FIRE DAMPER
CONC	CONCRETE	FPTU	FAN POWERED TERMINAL UNIT	N.O.	NORMALLY OPEN	SP	STATIC PRESSURE (in. W.G.)
CONN	CONNECTION	FPM	FEET PER MINUTE	NIC	NOT IN CONTRACT	SQ	SQUARE
CONT	CONTINUATION OR CONTINUED	FS	FLOOR SINK	NO.	NUMBER OR DESIGNATION	SS	STAINLESS STEEL
CV	CONTROL VALVE	FSD	FIRE/SMOKE DAMPER	NOM	NOMINAL	ST	SOUND TRAP
DB	DRY BULB	FT	FEET			STR	STRUCTURAL
DDC	DIRECT DIGITAL CONTROL	FT²	SQUARE FEET				
DIFF	DIFFUSER	FT³	CUBIC FEET				
DN	DOWN	GAL	GALLON(S)				
DWGS	DRAWINGS	GPH	GALLONS PER HOUR				
DX	DIRECT EXPANSION	GPM	GALLONS PER MINUTE				

EQUIPMENT TAG SYMBOLS

- V12 — OVAL SYMBOL INDICATES A CONTROL VALVE; V-NUMBER REFERS TO A SPECIFIC VALVE IDENTIFIED IN THE CONTROL VALVE SCHEDULE
- FF 5 — EQUIPMENT TYPE IN EQUIPMENT SCHEDULE; HEX SYMBOL INDICATES NEW EQUIPMENT; NUMBER REFERS TO SPECIFIC EQUIPMENT
- TU-2-18 1800 — TERMINAL UNIT TYPE, SIZE AND SPECIFIC # HEX SYMBOL INDICATES NEW EQUIPMENT; NUMBER REFERS TO CFM OF TERMINAL UNIT
- A 250 — GRILLE, REGISTER OR DIFFUSER TYPE IDENTIFIED IN THE GRILLE, REGISTER & DIFFUSER SCHEDULE; SLOTS / CRM OR NOMINAL FACE DIMENSIONS

SECTION & DETAIL REFERENCES

- 101 OFFICE — ROOM NUMBER; ROOM NAME
- 1/M2.1 — REFERENCE OR DETAIL NUMBER
- 1/M8.01 — SECTION CUT
- 4/M3.01 — EXTERIOR ELEVATION
- 2/M5.01 — INTERIOR ELEVATION

CITY OF SANTA FE ENERGY CALCULATIONS

APPLICATION DATA SHEET

1.0	DESIGN DATA		system R		
1.1	Building Location	=	Santa Fe City		
1.2	Floor Area	=	20,948		EXISTING IS 17,696 NEW IS 3252
1.3	Flat Ceiling Area - joists	=	10,474	41.96	30 R INSULATION
1.31	Beamed/Vigas ceiling area	=	N/A	40.96	
1.32	Vaulted ceiling area	=	N/A	0.00	
1.33	Skylight area	=	-	0.00	
1.4	Gross wall area - principle	=	9,900	20.00	FRAME WITH BRICK
1.41	Gross wall area - secondary	=	-	20.00	
1.42	Basement wall	=	-	0.00	
1.43	Crawlspace wall	=	-	0.00	
1.5	Window Area - type 1	=	990.0	1.91	EXISTING IS 17,696 NEW IS 3252
1.51	Window Area - type 2	=	990	0.00	
1.6	Door area	=	168	2.00	EXISTING DOORS ARE 2-6X7 9 QTY
1.61	Glass doors	=	134.4	2.22	
1.7	concrete slab perimeter	=	495.0	12.50	
1.71	floors over unheated space	=	-	0.00	
1.72	cantilevered floor	=	-	0.00	
1.8	Roof Insulation Used Flat	=	R-30		
1.81	Roof Insulation Used Cathedral	=			
1.82	Roof Insulation Used Beamed	=			
1.9	Window Type used	=			
1.10	Doors used	=			
1.101	French doors used	=	N/A		
1.11	Wall Assembly principle	=	R-19		FRAME WITH BRICK
1.111	Wall Assembly secondary	=	R-19		
		=			
		=			
1.12		=			

2.0	TABLE A-1 Data (min. R Values Allowed by Code)			
2.1	Heating Degree Days	=	6,001	
2.2	Roof/Clg R	=	38.5	
2.3	Walls R, A-1	=	8.0	
2.31	Walls R, A-2	=	3.6	
2.32	Flrs Over Unhtd Spaces	=	20.0	
2.4	Floor slab Penmeter Insul. R	=	7.1	
2.5	Penmeter Insulation Depth	=	48.0	

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Architect — Engineer

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

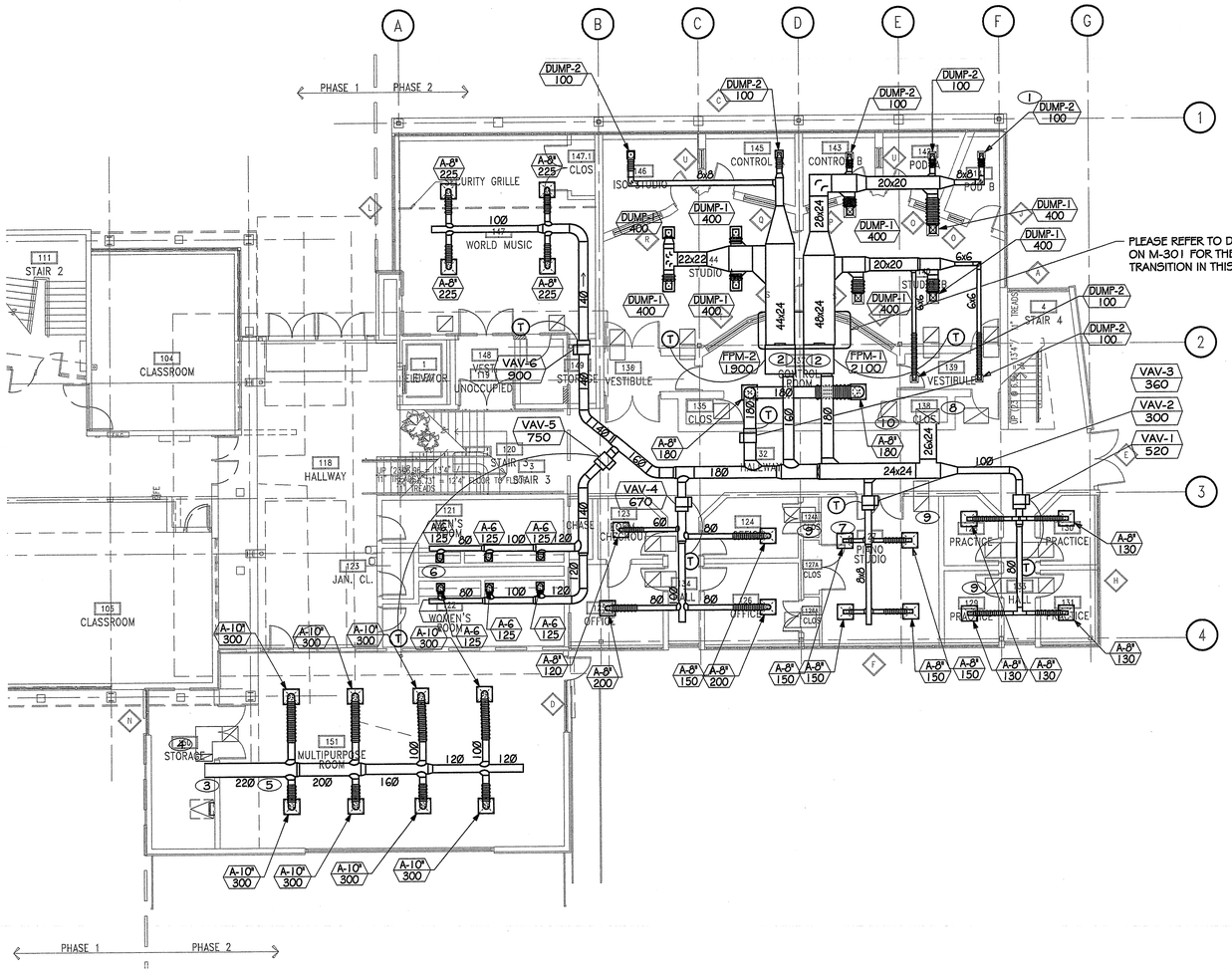
ISSUE: CONSTRUCTION SET
PROJECT NO: 0335P2
CAD DWG FILE: M-001.DWG
DRAWN BY: ARR
CHECKED BY: JGK
DATE: 11/08/04

SHEET TITLE

MECHANICAL ABBREVIATIONS & SYMBOLS

M-001
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MECHANICAL DUCTWORK - FIRST FLOOR

SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. COORDINATE ALL BRANCH RUNS w/ THE STRUCTURE.

B. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY POSSIBLE CONDITION, NOR EVERY ITEM SCALED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, APPURTENANCES, & CONTROLS, COMPLETELY COORDINATED w/ ALL DISCIPLINES FOR COMPLETE, FUNCTIONING MECHANICAL SYSTEMS. THE PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE CONFORMED TO STRICTLY. THE CONTRACTOR SHALL PROVIDE ALL ITEMS & LABOR REQUIRED FOR COMPLETE MECHANICAL SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS & THESE CONTRACT DOCUMENTS WITHOUT ANY ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS & SHALL COORDINATE WITH OTHER TRADES WHILE PREPARING THE MECHANICAL SHOP DRAWINGS.

KEYED NOTES:

1. "DUMP" DIFFUSER IS AN OPENING IN THE DUCTWORK w/ A 2" FILTER. PAINT. SEE DETAIL on M-501.
2. FAN POWERED MIXING BOX (FPM) SERIES FLOW UNIT CONSTANT VOLUME UNIT by TITUS DTQS w/ DIGITAL CONTROL SYSTEM & HOT WATER RE-HEAT COIL. TYPICAL OF ALL FPM's.
3. FULL SIZE DROP FROM THE RTU.
4. LINED RA DROP & SOUND BOOT THROUGH THE WALL.
5. MOUNT THE DUCTWORK TIGHT TO THE ROOF STRUCTURE.
6. PROVIDE AIR DISTRIBUTION IN THE LIGHT WELL. SEE DETAIL.
7. LIMIT THE FLEX DUCT TO 6'-0".
8. LINED SUPPLY & RETURN AIR TO RTU-1 (50AKQ20)
   SUPPLY @ 24"x36" FREE AREA
   RETURN @ 24"x36" FREE AREA
9. RETURN AIR w/ SOUND BOOT. ☐☑
10. RETURN AIR w/o SOUND BOOT. ☑

LEGEND:

SCHEDULE:

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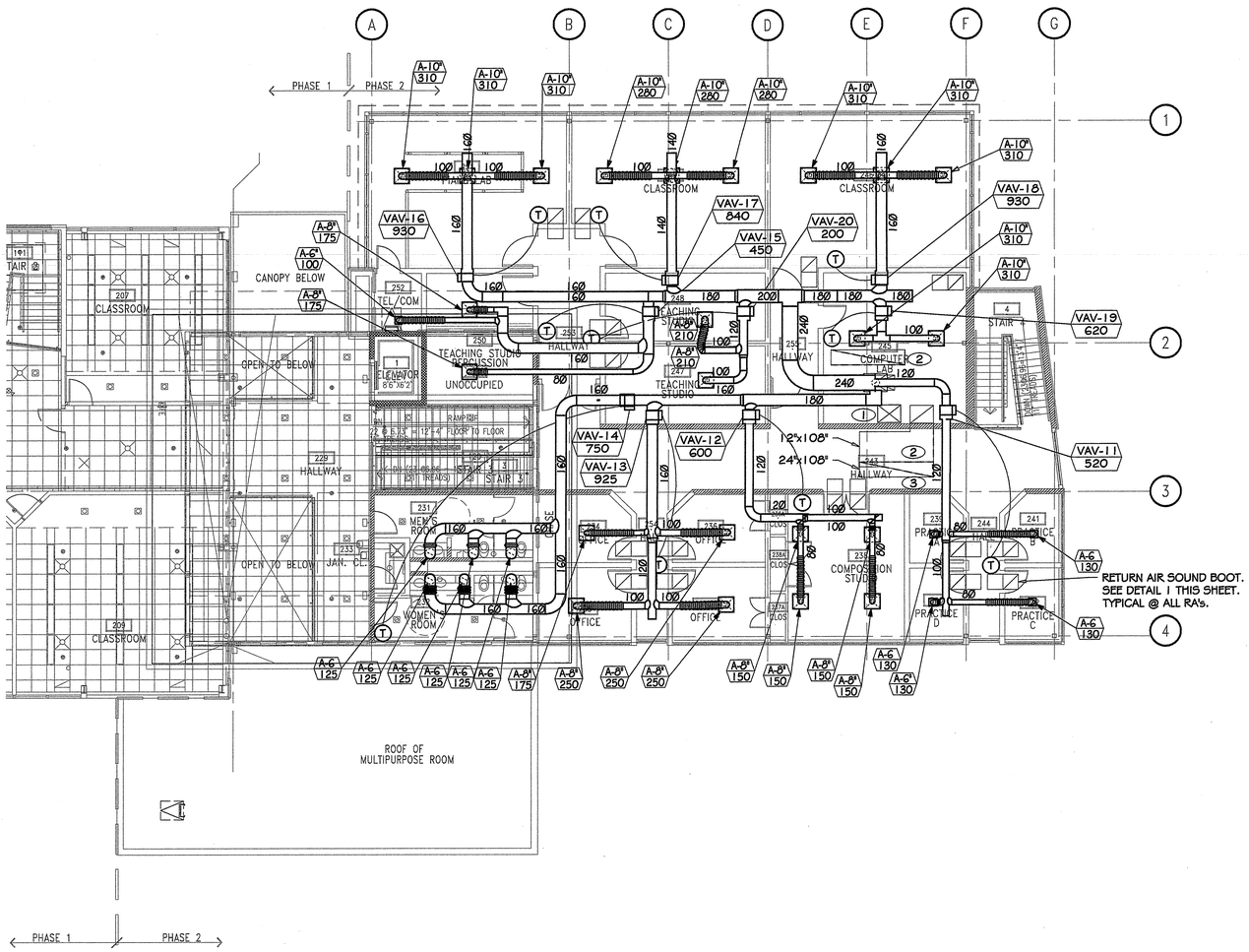
ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	M-101.DWG
DRAWN BY:	ARR
CHECKED BY:	JGK
DATE:	11/08/04

SHEET TITLE

MECHANICAL DUCTWORK FIRST FLOOR

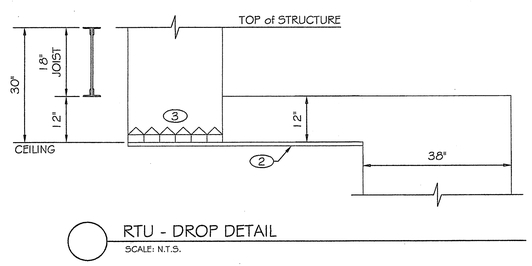
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MECHANICAL DUCTWORK - SECOND FLOOR

SCALE: 1/8"=1'-0"



RTU - DROP DETAIL

SCALE: N.T.S.

GENERAL NOTES:

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KEYED NOTES:

1. DUCT DROPS TO THE FIRST FLOOR.
   SA @ 30"x36"
   RA @ 24"x108" FROM THE UNIT
   30"x38" TO THE FIRST FLOOR.

2. WRAP THE RETURN AIR DUCT w/ 2" ACOUSTIC VINYL BARRIER BY AMERICAN MICRO INDUSTRIES (800.558.2058).

3. AT BOTTOM OF THE RETURN AIR, DROP A LAYER OF "EGGCRATE" FOAM. DO NOT LINE THE 12"x108" DUCT SECTION.

LEGEND:

SCHEDULE:

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ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	M-102.DWG
DRAWN BY:	ARR
CHECKED BY:	JGK
DATE:	11/08/04

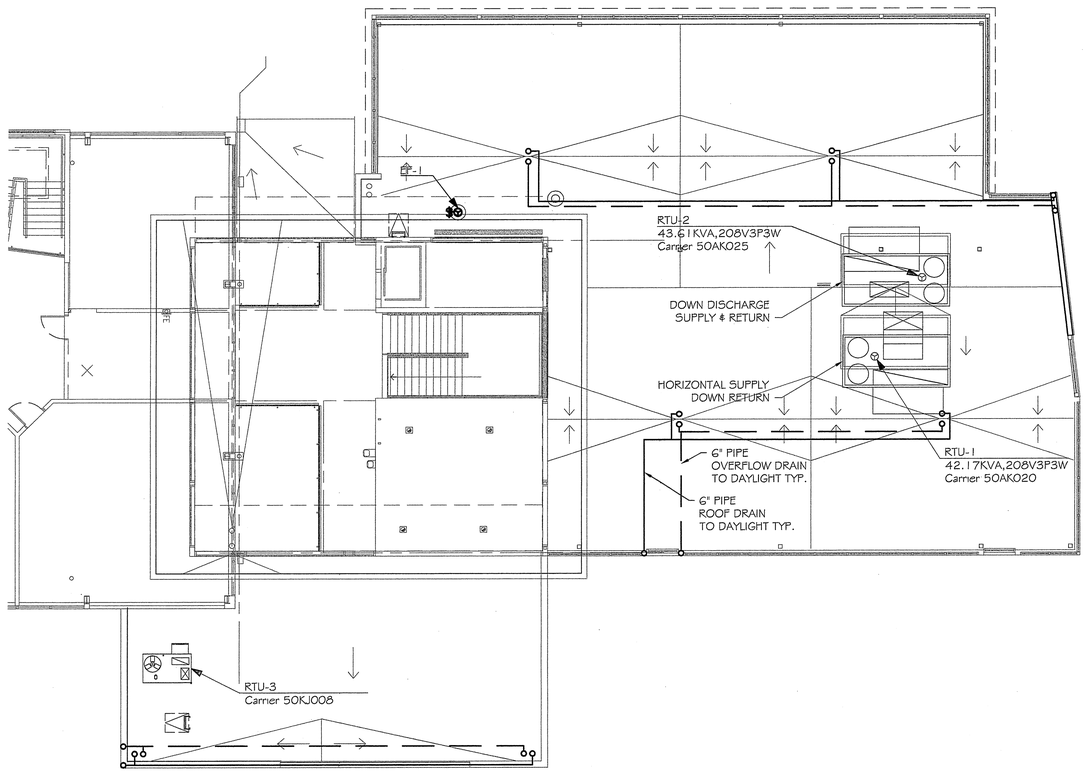
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MECHANICAL DUCTWORK SECOND FLOOR

M-102

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MECHANICAL ROOF PLAN

SCALE: 1/8"=1'-0"

GENERAL NOTES:

KEYED NOTES:

LEGEND:

SCHEDULE:

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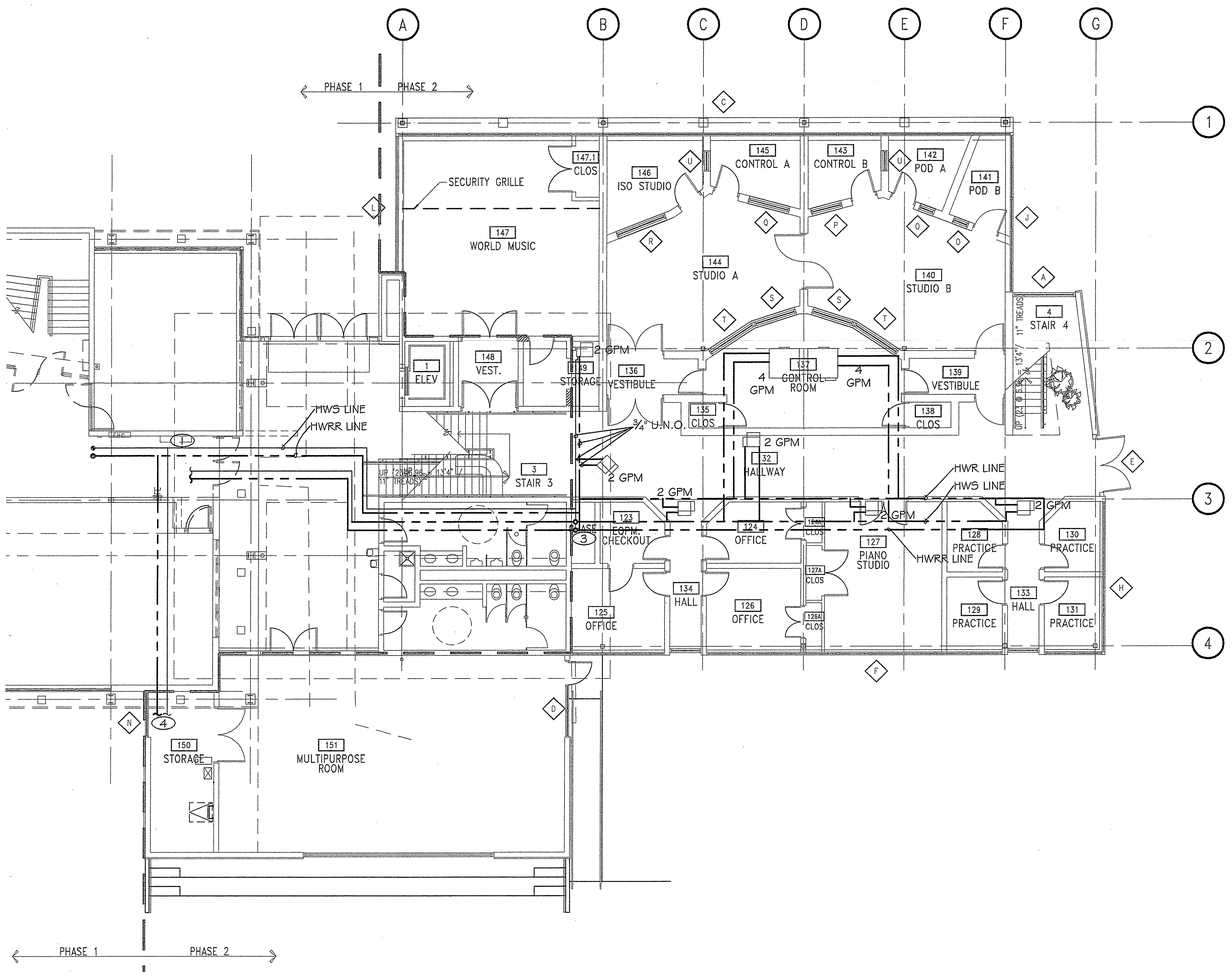
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MECHANICAL ROOF PLAN

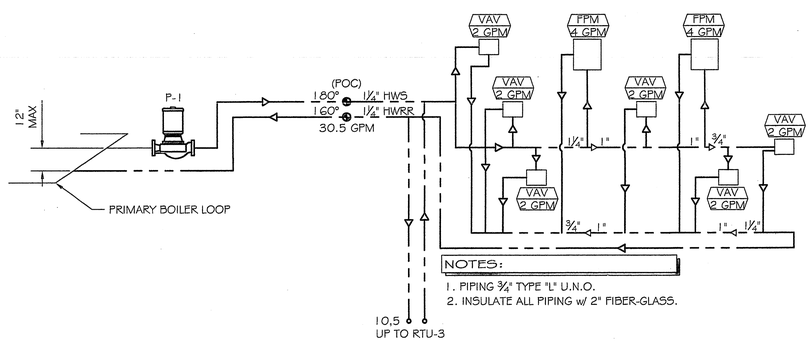
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MECHANICAL PIPING - FIRST FLOOR

SCALE: 1/8"=1'-0"



NOTES:

1. PIPING ¾" TYPE "L" U.N.O.
2. INSULATE ALL PIPING w/ 2" FIBER-GLASS.

FIRST FLOOR - HW SCHEMATIC

SCALE: N.T.S.

GENERAL NOTES:

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KEYED NOTES:

1. FIRST FLOOR HOT WATER HEATING TO THE PHASE I BOILER ROOM. FIELD CONFIRM THE SIZE & LOCATION. FLOW 1¼" HWS, 1¼" HWR, 1¼"HWRR @ 20 GPM.
2. PROVIDE A HOTWATER COIL TRIM PACKAGE w/ (1) - 3 WAY VALVE, (2) - SHUT OFF VALVES, (1) - FLOW CONTROL DEVICE, (2) - "PETE'S" PLUGS, (2) - UNIONS & (2) - FLEX CONNECTORS.
3. PIPE UP THE SECOND FLOOR.
4. PIPE STUB OUT IN PHASE 1.

LEGEND:

HWS :	HOT WATER SUPPLY
HWR :	HOT WATER RETURN
HWRR:	HOT WATER REVERSE RETURN
RTU :	ROOFTOP UNIT
FPM :	FAN POWERED MIXING BOX
VAV :	VARIABLE AIR VOLUME

1" 1¼" CHANGE IN PIPE SIZE

DIRECTION OF FLOW

SCHEDULE:

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	M-104.DWG
DRAWN BY:	ARR
CHECKED BY:	JGK
DATE:	11/08/04

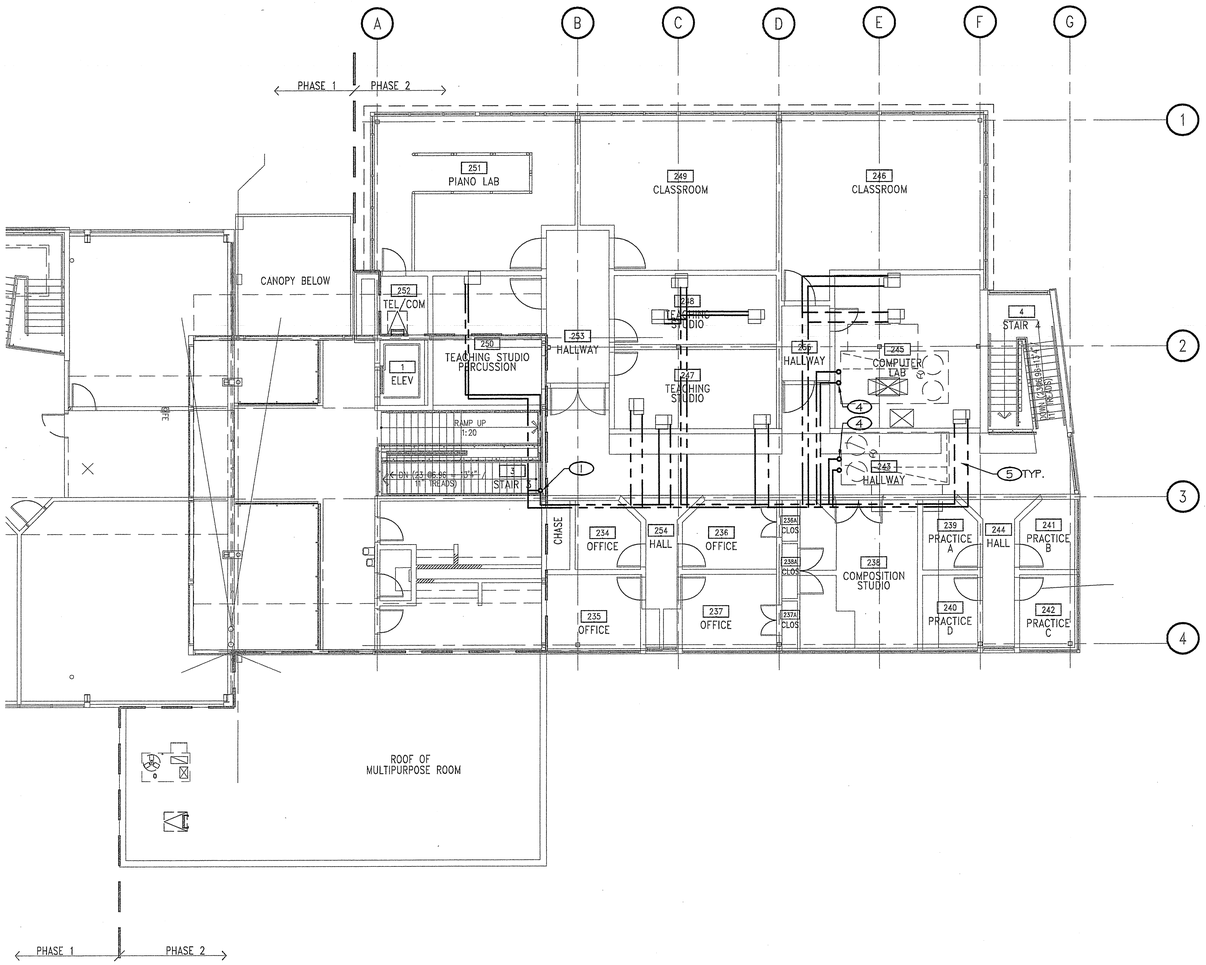
SHEET TITLE

MECHANICAL PIPING FIRST FLOOR

M-104

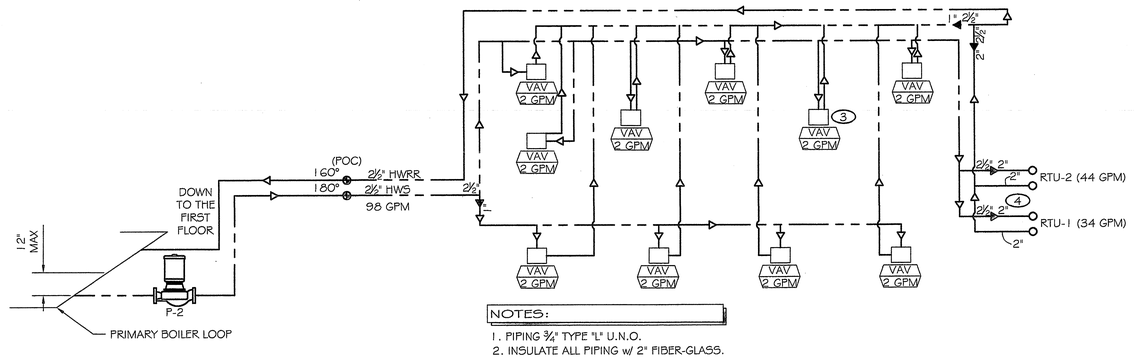
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MECHANICAL PIPING - SECOND FLOOR

SCALE: 1/8"=1'-0"



NOTES:

1. PIPING ¾" TYPE "L" U.N.O.
2. INSULATE ALL PIPING w/ 2" FIBER-GLASS.

SECOND FLOOR - HW SCHEMATIC

SCALE: N.T.S.

GENERAL NOTES:

A. COORDINATE ALL BRANCH RUNS w/ THE STRUCTURE.

B. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY POSSIBLE CONDITION, NOR EVERY ITEM SCALED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, APPURTENANCES, & CONTROLS, COMPLETELY COORDINATED w/ ALL DISCIPLINES FOR COMPLETE, FUNCTIONING MECHANICAL SYSTEMS. THE PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE CONFORMED TO STRICTLY. THE CONTRACTOR SHALL PROVIDE ALL ITEMS & LABOR REQUIRED FOR COMPLETE MECHANICAL SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS & THESE CONTRACT DOCUMENTS WITHOUT ANY ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS & SHALL COORDINATE WITH OTHER TRADES WHILE PREPARING THE MECHANICAL SHOP DRAWINGS.

KEYED NOTES:

1. PIPING FROM THE FIRST FLOOR FOR THE VAV LOOP.
2. 2½" HWS/HWRR
3. PROVIDE A COIL TRIM PACKAGE FOR THE DETAIL 2/M-501
4. TO RTU UNITS.
5. PIPING ROUTING IS APPROXIMATE. COORDINATE ROUTING WITHIN THE HALLWAY CEILING.

LEGEND:

HWS :	HOT WATER SUPPLY
HWR :	HOT WATER RETURN
HWRR:	HOT WATER REVERSE RETURN
RTU :	ROOFTOP UNIT
FPM :	FAN POWERED MIXING BOX
VAV :	VARIABLE AIR VOLUME
1" 1¼"	CHANGE IN PIPE SIZE
	DIRECTION OF FLOW

SCHEDULE:

DCSW ARCHITECTS
DESIGN COLLABORATIVE SOUTH-WEST, INC.
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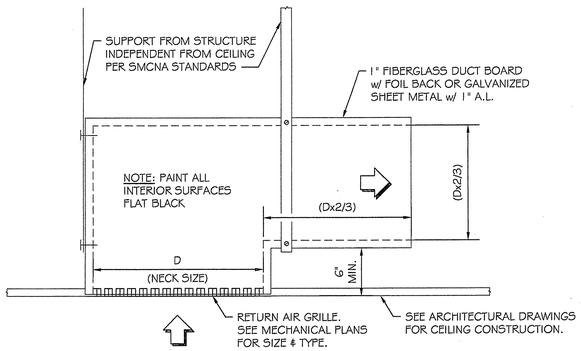
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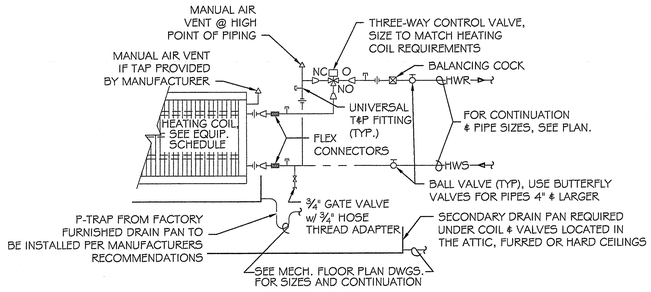
MECHANICAL PIPING SECOND FLOOR

M-105
sheet of . sheets

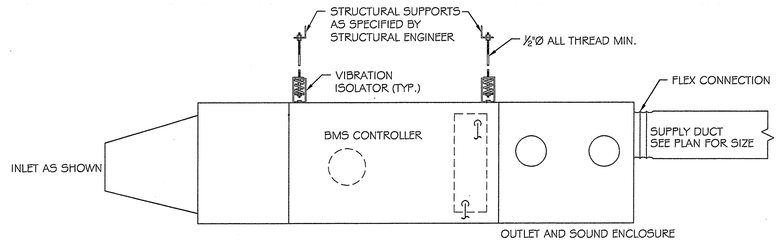
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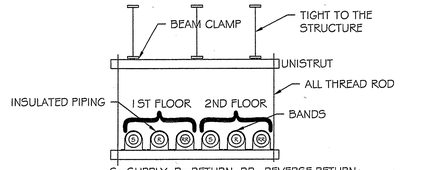
1 R/A SOUND BOOT DETAIL
SCALE: N.T.S.



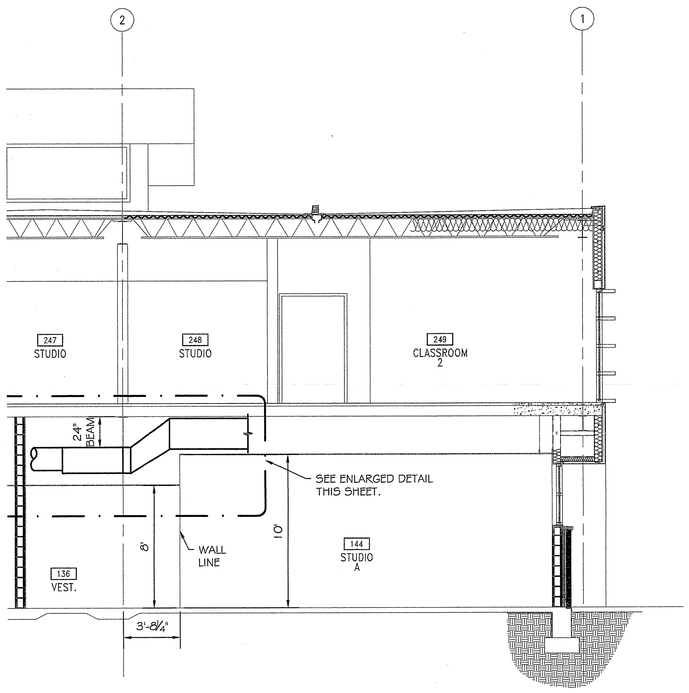
2 THREE WAY HEATING COIL DETAIL
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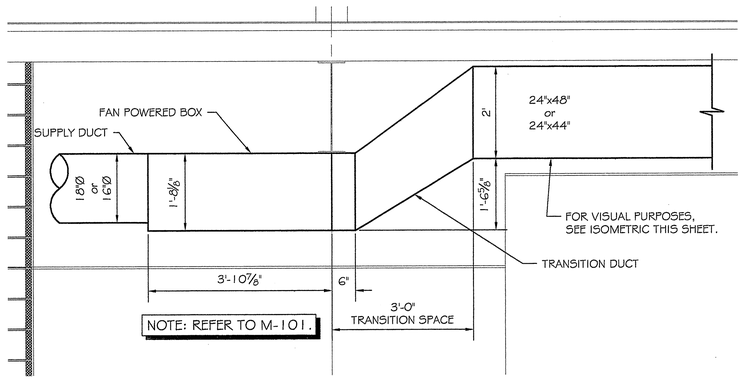
3 VAV & CV TERMINAL DETAIL
SCALE: N.T.S.



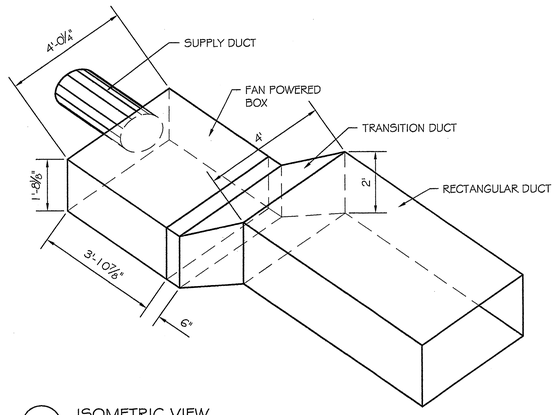
4 PIPING TRAPEZE
SCALE: N.T.S.



BUILDING SECTION
SCALE: 1/4"=1'-0"



ENLARGED SECTION
SCALE: N.T.S.



ISOMETRIC VIEW
SCALE: N.T.S.

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COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	M-501.DWG
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SHEET TITLE

MECHANICAL DETAILS

M-501
sheet of . sheets

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MECHANICAL EQUIPMENT SCHEDULED

RTU-#

ROOFTOP UNIT. PROVIDE & INSTALL A SINGLE HEATING & COOLING ROOFTOP UNIT. UNIT SHALL OPERATE ON R-22 & BE FULLY CHARGED. THE CONTROL SYSTEM SHALL BE A MICRO PROCESSOR BASED VAV CONTROL & COORDINATED w/ ZONE VAV TERMINALS.
THE SUPPLY FAN SHALL BE AN FC CENTRIFUGAL FAN w/ A BELT DRIVE. PROVIDE A FACTORY MOUNTED & WIRED VFD FAN CONTROL SYSTEM TO MODULATE THE SUPPLY FAN BASED ON SYSTEM STATIC PRESSURE & ZONE DEMAND.
COMPRESSOR SHALL HAVE CRANKCASE HEATER, & PHASE REVERSAL PROTECTION. HEATING SECTION SHALL HAVE A HOT WATER HEATING COIL w/ A 3-WAY CONTROL VALVE & RESET LEAVING AIR SYSTEM.
FILTERS SHALL BE 30% PLEATED FILTER w/ 3-SETS OF FILTERS. CONTROL SHALL INCLUDE LEAVE AIR TEMPERATURE CONTROL, ECONOMIZER CYCLE. MORNING AIR FLUSH w/ 100% OUTSIDE @ TEMPERATURE ABOVE 45° & 50% OUTSIDE BETWEEN 30° - 45° & 25% BELOW 30° - 10°, 0% BELOW 10°.
PROVIDE A 14" ROOF CURB w/ 3" OF FOAM INSULATION INSIDE OF THE CURB. PROVIDE A UNIT DISCONNECT SWITCH, 120V 20AMP GFI CONVENIENCE OUTLE.
COMPRESSOR INTERGRATED ECONOMIZER, LOW LEAK O.A. DAMPERS & POWER EXHAUST.
UNITS SELECTED @ 80%/64° EAT & 95° & 10° WINTER 180 EWT/160 CWT 230V 3Ø & 7000I UNITS SHALL BE BY CARRIER, (BASE), TRANE, YORK or EQUAL.

TAG	CFM	ESP	HP	TC (MBH)	SH (MBH)	HEATING (MBH)	GPM	ΔP (MAX)	MCA	MOCP	WT	CARRIER
RTU-1	8,000	2.0	10	230	156	347	34	15'	117.2	125	4191	50AK020
RTU-2	10,000	2.0	10	271	185	434	44	15'	121.2	125	4264	50AK025
RTU-3	2,400	0.75	2.0	79	54	104	10.5	10'	47.3	50	755	50KJ008

* HEATING IS BASED ON 25% OF 10° AIR & RETURN AIR @ 70° FOR A 55° MAT.

** RTU-3 IS A CONSTANT VOLUME UNIT.

UNIT DIMENSIONS (LESS THE CURB)

UNIT	LENGTH	WIDTH	HEIGHT
RTU-1	165"	94"	73"
RTU-2	165"	94"	73"
RTU-3	87"	57"	42"

FPM-#

FAN POWERED MIXING BOX:
AS INDICATED PROVIDE & INSTALL A FAN POWERED SERIES FLOW MIXING BOX. UNIT IS TO OPERATE AT A CONSTANT AIR VOLUME & FAN RPM. PROVIDE THE UNIT w/ INDUCED AIR FILTER. DISCONNECT "FIBER-FREE" PLENUM LINER. 2" DUCT LINER DOWN STREAM OF THE DISCHARGE. MOTOR TO BE 208V/230V 3 Ø.
HEATING COIL TO BE 1-ROW @ 4 GPM, 49 MBH
UNIT SHALL BE TITUS "TQS".

UNIT	INLET	LENGTH	WIDTH	HEIGHT	CFM	INLET SP(MIN)
FPM-1	16"	56"	48"	17½"	AS SHOWN	0-1"
FPM-2	16"	56"	48"	17½"	AS SHOWN	0-1"

VAV-#

VARIABLE AIR VOLUME CONTROL BOX:
PROVIDE & INSTALL A VAV BOX w/ THE CFM AS SHOWN. PROVIDE A 1 ROW RE-HEAT COIL ON EACH BOX. UNITS BY TITUS MODEL ESV.

VAV-#	CFM	INLET	MBH
VAV-1	520	7"	15.1
VAV-2	300	5"	10.3
VAV-3	360	5"	11.1
VAV-4	670	8"	17.6
VAV-5	750	8"	18.1
VAV-6	900	9"	23.7
VAV-11	520	7"	15.1
VAV-12	600	7"	16.4
VAV-13	925	9"	23.7
VAV-14	X	X	X
VAV-15	450	7"	14.6
VAV-16	930	9"	23.7
VAV-17	840	8"	19.0
VAV-18	930	9"	23.7
VAV-19	X	X	X
VAV-20	X	X	X

B-#

BOILER IS EXISTING IN PHASE 1.

P-#

TAG	GPM	HEAD	HP/RPM	MODEL BASED on B&G
P-1	30.5	45'	1.5/1750	SERIES 60 : 1½ x 7
P-2	98	45'	3.0/1750	SERIES 60 : 2 x 7

* PROVIDE VFD DRIVES, STRAINER.

** RACK MOUNT PUMPS.

TAG DESCRIPTION

TYPE — DIFFUSERS:

A — CEILING DIFFUSER. TITUS TMS.

B — RETURN AIR "EGGCRATE" w/ SOUND BOOT - TITUS 50F.

DUMP — DUCT OPENING FOR SUPPLY AIR w/ AIR FILTER.

GENERAL NOTES:

A. ALL MOTORS, FUSED DISCONNECTS, STARTERS w/ THERMAL OVERLOADS FOR ALL MOTORS (AHU, PUMPS, FAN COILS, CHILLER, TOWER, ETC.) SHALL BE FURNISHED BY DIVISION 15. IF NOT FACTORY MOUNTED THEN THE INSTALLATION WILL BE BY DIVISION 16.

B. ALL EQUIPMENT SHALL BE FURNISHED WITH ALL REQUIRED OR RECOMMENDED ACCESSORY ITEMS ALL EQUIPMENT SHALL BE COMPLETE & SUITABLE FOR THE INTENDED DUTY. PROVIDE ACCESS & SERVICE AREA AROUND ALL EQUIPMENT. ALL ITEMS SHALL BE FURNISHED BY DIVISION 15, IF NOT FACTORY MOUNTED THEN THE INSTALLATION WILL BE BY DIVISION 15.

C. ALL EQUIPMENT OR ACCESSORIES MAY NOT BE SCHEDULED. DIVISION 15 SHALL PROVIDE ALL EQUIPMENT SHOWN ON THE PLANS, DETAILS OR SCHEDULES.

D. ALL CONTROLS, VFD's, SENSORS, ETC., ARE FURNISHED BY DIVISION 15 & INSTALLED BY DIVISION 15. FIELD POWER WIRING BY DIVISION 16.

E. THE CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE FULLY DETAILED & SHOW ALL INTERFACE CONDITIONS FOR ALL TRADES. DRAWING SHALL BE ¼" = 1'-0" IN AUTOCAD FORMAT.

F. EQUIPMENT. EQUIPMENT ACCESSORIES OR TRIM ITEMS MAY BE SHOWN ON THE PLANS OR DETAILS & NOT SPECIFICALLY LISTED IN TEH SCHEDULE. SUCH ITEMS ARE TO BE CONSIDERED AS A PART OF THE SCHEDULE & CONTRACT. REVIEW ALL MEP SHEETS FOR ADDITIONAL ITEMS TO BE FURNISHED.

G. ITEMS RECOMMENDED OR REQUIRED BY THE UNIT MANUFACTURER FOR THE PROPERTY OPERATION OF THE EQUIPMENT SHALL BE INCLUDED. THE MANUFACTURER SHALL SUBMIT A STATEMENT CONFIRMING THAT ALL ITEMS REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT HAVE BEEN FURNISHED.

H. THE EQUIPMENT MANUFACTURER SHALL SUBMIT THE OPERATING LIMITS FOR THE EQUIPMENT. ANY PIPING DIAGRAMS, CONTROL DIAGRAMS, WIRING INTERFACE, STRUCTURAL LOAD POINTS, FIELD SUPPORT ITEMS OR TRADES THAT ARE RECOMMENDED OR REQUIRED FOR THE EQUIPMENT.

I. FINISH ALL DIFFUSER FACES, LINEAR & SQUARE TO MATCH CEILING OR CEILING TRIM, PROVIDE A FINISH SCHEDULE FOR APPROVAL.

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SHEET TITLE

MECHANICAL EQUIPMENT SCHEDULES

M-701

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ELECTRICAL SYMBOL LEGEND (NOT ALL MAY BE USED)

LIGHTING SYMBOLS

F1 a	SURFACE MOUNTED FIXTURE, TYPE = "F1" CONTROL = "a" SWITCH
	LAY-IN CEILING FIXTURE
	EMERGENCY LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	EMERGENCY STRIP LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	SURFACE MOUNTED CEILING LIGHT
OS	OCCUPANCY SENSOR
	SURFACE MOUNTED WALL WASHER LIGHT
	WALL MOUNTED LIGHT
	WALL MOUNTED WALL WASHER LIGHT/SPOT/LIGHT
	RECESSED MOUNTED LIGHT
	RECESSED MOUNTED WALL WASHER LIGHT/SPOT/LIGHT
	RECESSED EMERGENCY FIXTURE
	CEILING MOUNTED EXIT LIGHT
	WALL MOUNTED EXIT LIGHT
	WALL MOUNTED EMERGENCY LIGHT
	EXTERIOR POLE MOUNTED LIGHT
	TRACK LIGHT
	PHOTOCELL - OUTDOOR
D	DIMMER CONTROL STATION (1)
$LV	LOW VOLTAGE SWITCH (1) (1)
$	SINGLE SWITCH (1) (1)
$2	DOUBLE POLE SWITCH (1) (1)
$3	THREE-WAY SWITCH (1) (1)
$4	FOUR-WAY SWITCH (1) (1)
$WP	WEATHERPROOF SWITCH (1)
$D	DIMMER SWITCH (1) (1)
$K	KEYED SWITCH (1) (1)
$PL	SWITCH w/ PILOT LIGHT (1) (1)
$OL	MANUAL HP RATED SWITCH w/ OVERLOADS (1)
	PUSH-BUTTON SWITCH (1)
	FLUORESCENT PENDANT - NORMAL POWER
	FLUORESCENT PENDANT - NORMAL/EMERGENCY POWER
D	LOW VOLTAGE WALL DIMMER CONTROLLER (1)
TC	TIME CLOCK (6)

POWER SYMBOLS

	SINGLE OUTLET (2)
	DUPLEX OUTLET (2)
	SPLIT-DUPLEX OUTLET (2)
GFI	GROUND FAULT CIRCUIT INTERRUPTER OUTLET (2)
EP	EXPLOSION PROOF, DELAYED ACTION RECEPT (2)
EM	EMERGENCY POWERED DUPLEX (2)
	QUADRUPLEX OUTLET (2)
	250V OUTLET, SINGLE PHASE NEMA TYPE AS NOTED (2)
	THREE PHASE OUTLET, NEMA TYPE AS NOTED (2)
	CLOCK OUTLET
	SPECIAL PURPOSE OUTLET, NEMA TYPE AS NOTED
WP	WEATHERPROOF OUTLET (2)
	FLOOR DUPLEX OUTLET
30/3/3	NON-FUSED DISCONNECT SWITCH; AMP/#POLES/NEMA TYPE
30/3/3	FUSED DISCONNECT SWITCH; AMP/#POLES/NEMA TYPE
	MAGNETIC CONTACTOR
	FLOOR OUTLET/STUBOUT
	MOTOR STARTER
	COMBINATION MOTOR CONTROLLER/STARTER
	MULTI-OUTLET RACEWAY
	MOTOR, NUMBER INDICATES HORSEPOWER
	PANEL
	RECESSED PANEL
	SPECIAL PANEL
	SERVICE/DISTRIBUTION EQUIPMENT
PB	PULLBOX
T	TRANSFORMER
	TRANSFORMER - PAD MOUNTED
	TELE-POWER POLE
R	RELAY
LT	LOW VOLTAGE TRANSFORMER
	CORD DROP w/ TWIST LOCK RECEPTACLE
J	J-BOX
J	WALL MOUNTED J-BOX
RP	RANGE PLUG OUTLET
CL	CAMLOCK DEVICE
W W	WIRE WAY
B B	BUSWAY

FIRE ALARM SYMBOLS

ZAM	FIRE ALARM ZONE MONITORING MODULE
FVS	FIRE ALARM VOICE EVACUATION w/ STROBE (3)
FVS	FIRE ALARM - WALL MOUNT SPEAKER
F	FIRE ALARM - PULL STATION (1)
FV	FIRE ALARM VISUAL ONLY STROBE (3)
F	FIREFIGHTER'S PHONE (5)
FB	FIRE ALARM - BELL (3)
SD	SMOKE DETECTOR
G	GAS DETECTOR
H	HEAT DETECTOR
F	FLOW SWITCH (by MECHANICAL CONTRACTOR)
FD	FIRE DAMPER (by MECHANICAL CONTRACTOR)
SD	SMOKE DAMPER (by MECHANICAL CONTRACTOR)
F	FLAME DETECTOR
T	TAMPER SWITCH (by MECHANICAL CONTRACTOR)
FACP	FIRE ALARM CONTROL PANEL
RA	REMOTE ANNUNCIATOR
EOLR	END OF LINE RESISTOR
DD	DUCT SMOKE DETECTOR
DH	MAGNETIC DOOR HOLDER
SDV	VANDAL PROOF SMOKE DETECTOR
FVS V	VANDAL PROOF VOICE EVACUATION w/ STROBE (3)
FAV	AUDIBLE/VISUAL ANNUNCIATION DEVICE (3)
FAT	FIRE ALARM TRANSPONDER
DC	DOOR CLOSURE
BD	BEAM DETECTOR
TR	ADDRESSABLE RELAY. QTY. OF CONTACTS AS NEEDED
MOI	ADDRESSABLE MULTIPLE RELAY. QTY. OF CONTACTS AS NEEDED
ARA	AREA OF RESCUE ASSISTANCE STATION.

SPECIAL SYSTEMS SYMBOLS

	VOICE OUTLET - WALL (7) (2) P = PUBLIC PAY PHONE
	VOICE/DATA OUTLET (7) (2)
	DATA OUTLET - WALL (7) (2)
	DATA OUTLET - FLOOR (7)
M	MICROPHONE OUTLET - WALL (2)
M	MICROPHONE OUTLET - FLOOR
S Z1	SPEAKER - WALL MOUNTED Z1 = ZONE #1
S Z1	SPEAKER - CEILING MOUNTED Z1 = ZONE #1
T	THERMOSTAT (by MECHANICAL CONTRACTOR) (6)
	CABLE TELEVISION OUTLET (7) (2)
	TELEPHONE BOARD
	CABLE TRAY - LADDER TYPE
	LIGHTING PROTECTION AIR TERMINAL
	GROUND ROD
	VOICE DATA J - BOXES (7)
POS	POINT OF SALE P = PRINTER (6) (7)
PMS	PROPERTY MANAGEMENT SYSTEM
EA	EVACUATION ASSISTANCE COMMUNICATION DEVICE M = MASTER
VC Z1	VOLUME CONTROL, Z1 = ZONE #1
VCP Z1	VOLUME CONTROL w/ PROGRAM SELECTION Z1 = ZONE #1
AV	COMMUNICATIONS PLATE
AO	AUDIO SYSTEM INPUT/OUTPUT PLATE
AC	AUDIO CONTROL STATION
	CABLE TELEVISION OUTLET - FLOOR (7)

CIRCUITING SYMBOLS

	CONDUIT
	CONDUIT - UNDERGROUND or UNDERFLOOR
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	GROUND WIRE
	ISOLATED GROUND WIRE
	SWITCH LEG
	NEUTRAL WIRE
	HOT CONDUCTOR WIRE
	HOMERUN
	HOMERUN - UNDERGROUND or IN SLAB
FDA	ELECTRICAL EQUIPMENT DESIGNATION NAME = "FDA"
AH-4 21	MECHANICAL EQUIPMENT DESIGNATION

SECURITY SYMBOLS

PTZ	CCTV SURVEILLANCE CAMERA (10) (4) PTZ = PAN, TILT, ZOOM
DA	DURESS ALARM
DS	BALANCED MAGNETIC DOOR SWITCH (4) * = FAIL SECURE
LA	LOCAL ALARM
IA	INTRUSION ALARM DEVICE
IC	INTERCOM (4)
MG	MAGNETIC LOCK RELEASE SWITCH BUTTON
KP	KEYPAD OR ACCESS CONTROL (10) (1)
CR	CARD READER (10) (1)
KSC	COMBINATION KEYPAD / CARDREADER (1)
LCP	LOCK CONTROL CONSOLE
M	MOTION DETECTOR (10)
H	HEAT RISE DETECTOR
MCM	MASTER INTERCOM (1)
ICD	INTERCOM w/ DURESS (1)
	LIGHT/SIREN FOR DURESS ALARM
	CCTV MONITOR
	DOOR HARDWARE TO FAIL SECURE
	SIGNAL LIGHT STATUS PANEL
	LOW WATTAGE SIGNAL LIGHT
ST	TOGGLE SWITCH
G	DIGITAL GARAGE DOOR KEYBOARD
GC	OVERHEAD GARAGE DOOR CONTROLLER
IDK	IDENTIFICATION READER/KEYPAD
DS	ELECTRIC DOOR STRIKE RELEASE BUTTON
KS	DIGITAL KEYBOARD ALARM SHUNT
AC	ACCESS CONTROL DEVICE
GB	GLASS BREAK SENSOR
H	HANDICAP PUSH BUTTON

ELECTRICAL ABBREVIATIONS (NOT ALL MAY BE USED)

A	AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
AV	AUDIBLE VISUAL
BC	BELOW CEILING
BKR	BREAKER
BSD	BARE SOFT DRAWN
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CO	CONDUIT ONLY
CNTL	CONTROL
CPU	CENTRAL PROCESSING UNIT
CU	COPPER
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DISC	DISCONNECT
DN	DOWN
EM	EMERGENCY
ELECT	ELECTRICAL
EX	EXISTING

FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FL	FLOOR
F	FUSE OR FUSED
FVNR	FULL VOLTAGE NON-REVERSING
GEC	GROUND ELECTRODE CONDUCTOR
GEN	GENERATOR
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G/GND	GROUND
H/HT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HOA	HAND-OFF AUTOMATIC
HZ	HERTZ
INCAND	INCANDESCENT
IG	ISOLATED GROUND
ISO	ISOLATED
J/JB	JUNCTION BOX
K	KILO (THOUSAND)
KCML	THOUSAND CIRCULAR MILS
LED	LIGHT EMITTING DIODE
LPS	LOW PRESSURE SODIUM
LT(S)	LIGHT(S)
LTG	LIGHTING

M	MOTOR
MATV	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MAN HOLE
MLO	MAIN LUGS ONLY
MT	MOUNT
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/H	OVERHEAD
OL	OVERLOAD
P	POLE
PB	PUSH BUTTON
PC	PHOTOELECTRIC CONTROL
PNL	PANELBOARD
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE

OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OPNG	OPENING
PH	ELECTRICAL PHASE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	ROTATIONS PER MINUTE
SA	SUPPLY AIR
SCD	SMOKE CONTROL DAMPER
SCFM	STANDARD AIR (CU FT/min)
SD	SPLITTER DAMPER
SDW	SINGLE DUCT VARIABLE VOLUME
SFD	SMOKE/FIRE DAMPER
SP	STATIC PRESSURE (in. W.G.)
SQ	SQUARE
SS	STAINLESS STEEL
ST	SOUND TRAP
STR	STRUCTURAL
R	RELAY
RA	REMOTE ANNUNCIATOR
RC	REMOTE CONTROL
RECEPT	RECEPTACLE
REF	REFERENCE
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE

ST	SHUNT TRIP
SYM	SYMBOL
SW	SWITCH
SWBO	SWITCHBOARD
TB	TERMINAL BOX
TDOE	TIME DELAY ON ENERGIZE
TEL	TELEPHONE
TERM	TERMINAL
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS, VANDAL PROOF
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE
Z	IMPEDANCE
△	DELTA
	OHM
(N)	NEW
(E)	EXISTING
(F)	FUTURE
(E/R)	EXISTING TO REMAIN

EQUIPMENT TAG SYMBOLS

V12 — OVAL SYMBOL INDICATES A CONTROL VALVE; V-NUMBER REFERS TO A SPECIFIC VALVE IDENTIFIED IN THE CONTROL VALVE SCHEDULE

EF 5 — EQUIPMENT TYPE IN EQUIPMENT SCHEDULE; HEX SYMBOL INDICATES NEW EQUIPMENT; NUMBER REFERS TO SPECIFIC EQUIPMENT

TU-2-18 1800 — TERMINAL UNIT TYPE, SIZE AND SPECIFIC #; HEX SYMBOL INDICATES NEW EQUIPMENT; NUMBER REFERS TO CFM OF TERMINAL UNIT

A 250 — GRILLE, REGISTER OR DIFFUSER TYPE IDENTIFIED IN THE GRILLE, REGISTER & DIFFUSER SCHEDULE; SLOTS / CRM OR NOMINAL FACE DIMENSIONS

SECTION & DETAIL REFERENCES

101 OFFICE — ROOM NUMBER; ROOM NAME

1/M2.1 — REFERENCE OR DETAIL NUMBER

1/M8.01 — SECTION CUT

4/M3.01 — EXTERIOR ELEVATION

2/M5.01 — INTERIOR ELEVATION

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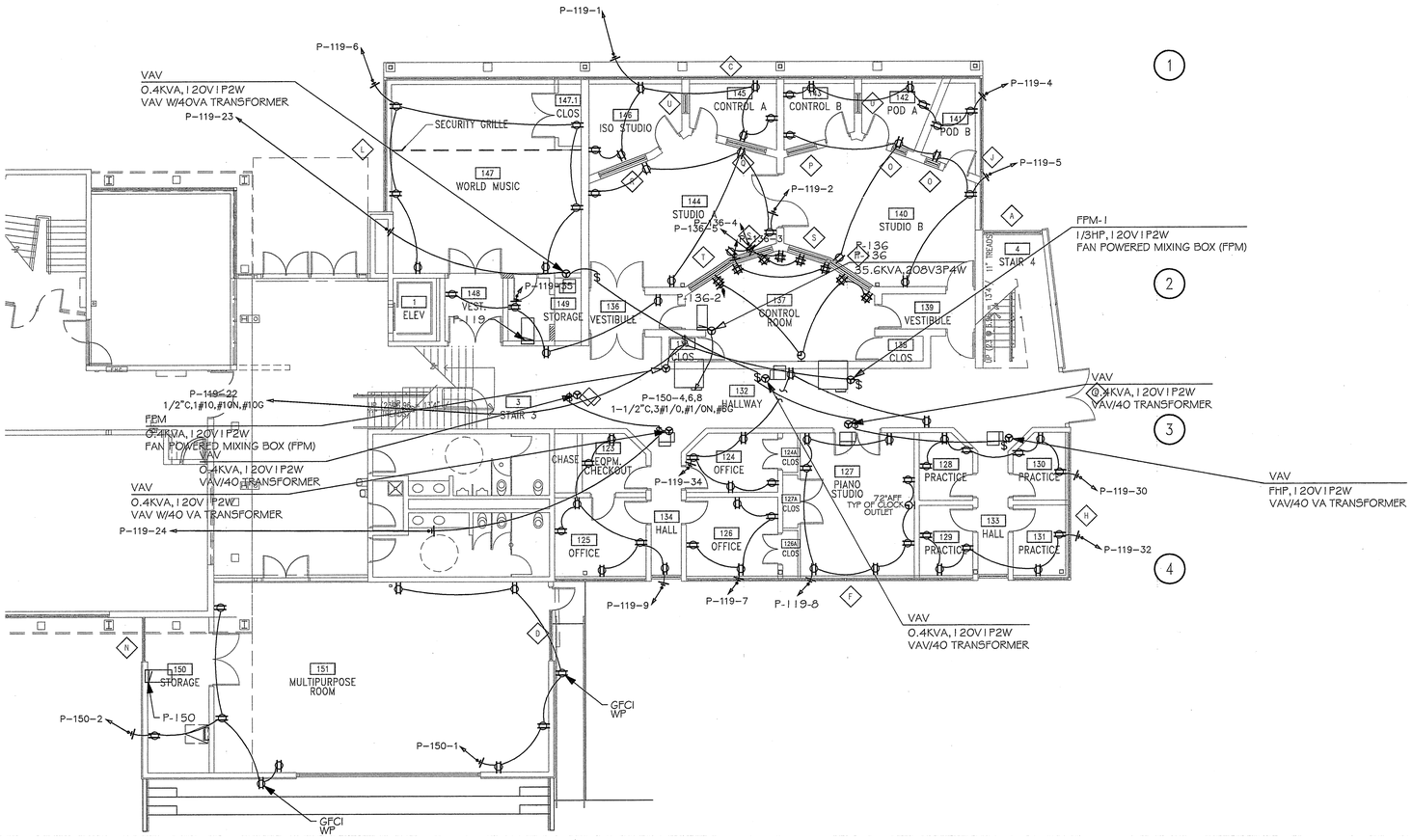
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ELECTRICAL SYMBOLS & ABBREVIATIONS

E-001

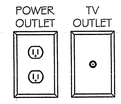
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ELECTRICAL POWER - FIRST FLOOR

SCALE: 1/8"=1'-0"



TYP OF OUTLETS @ 72" A.F.F.

NTS

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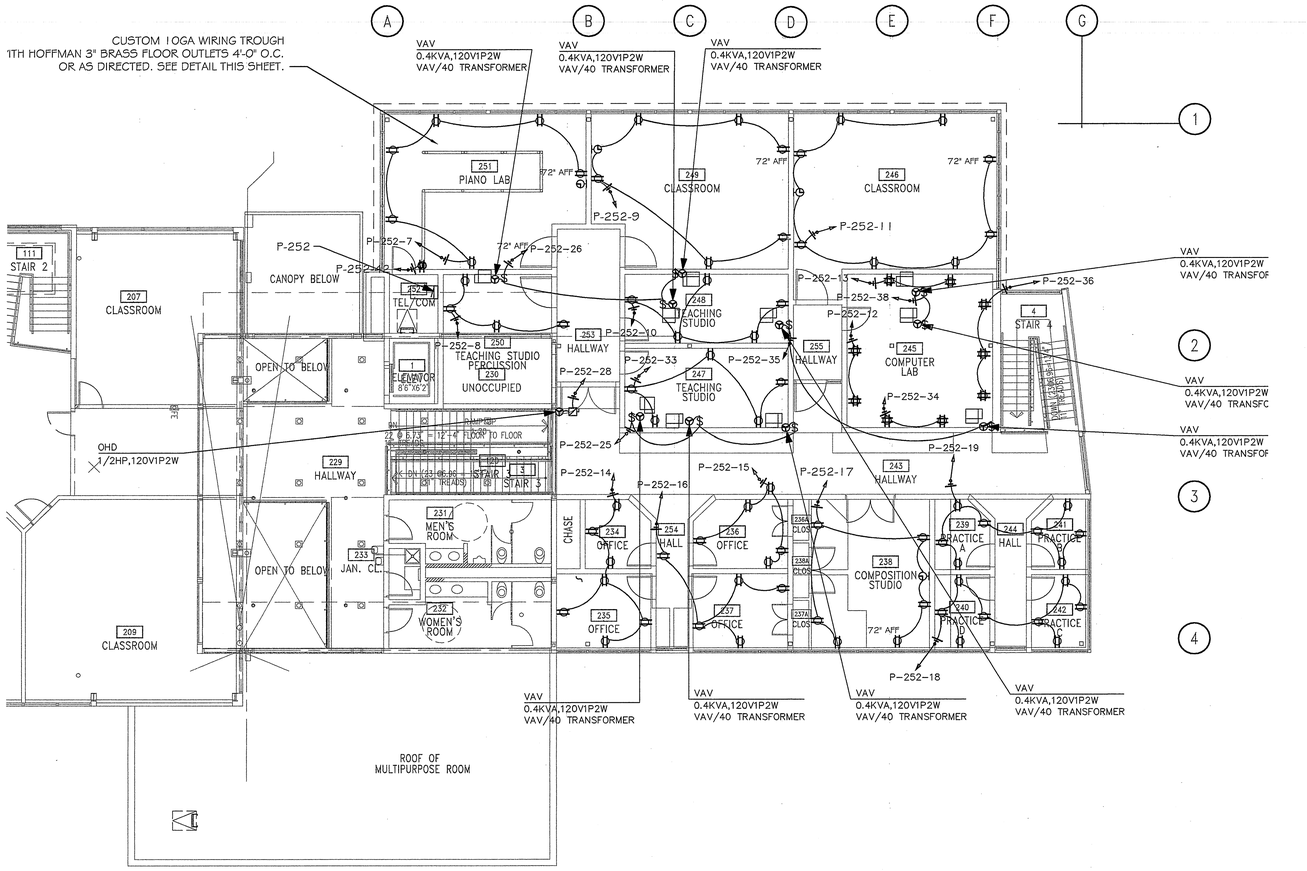
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ELECTRICAL
POWER
FIRST FLOOR

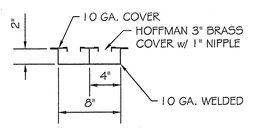
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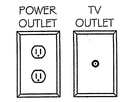
ELECTRICAL POWER - SECOND FLOOR

SCALE: 1/8"=1'-0"



CUSTOM TROUGH DETAIL

SCALE: N.T.S.



TYP OF OUTLETS @ 72" A.F.F.

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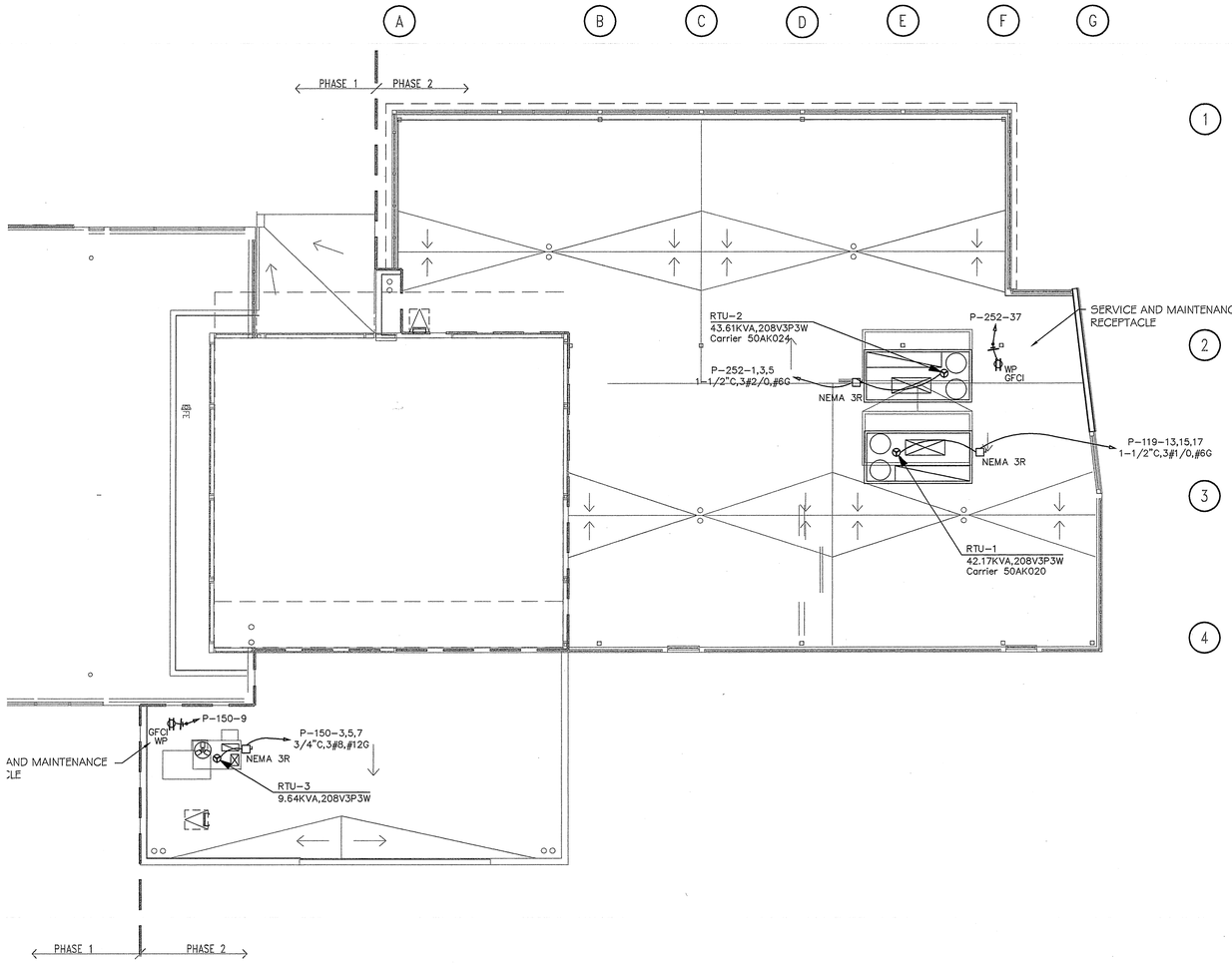
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ELECTRICAL
POWER
SECOND FLOOR

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ELECTRICAL ROOF PLAN

SCALE: 1/8"=1'-0"

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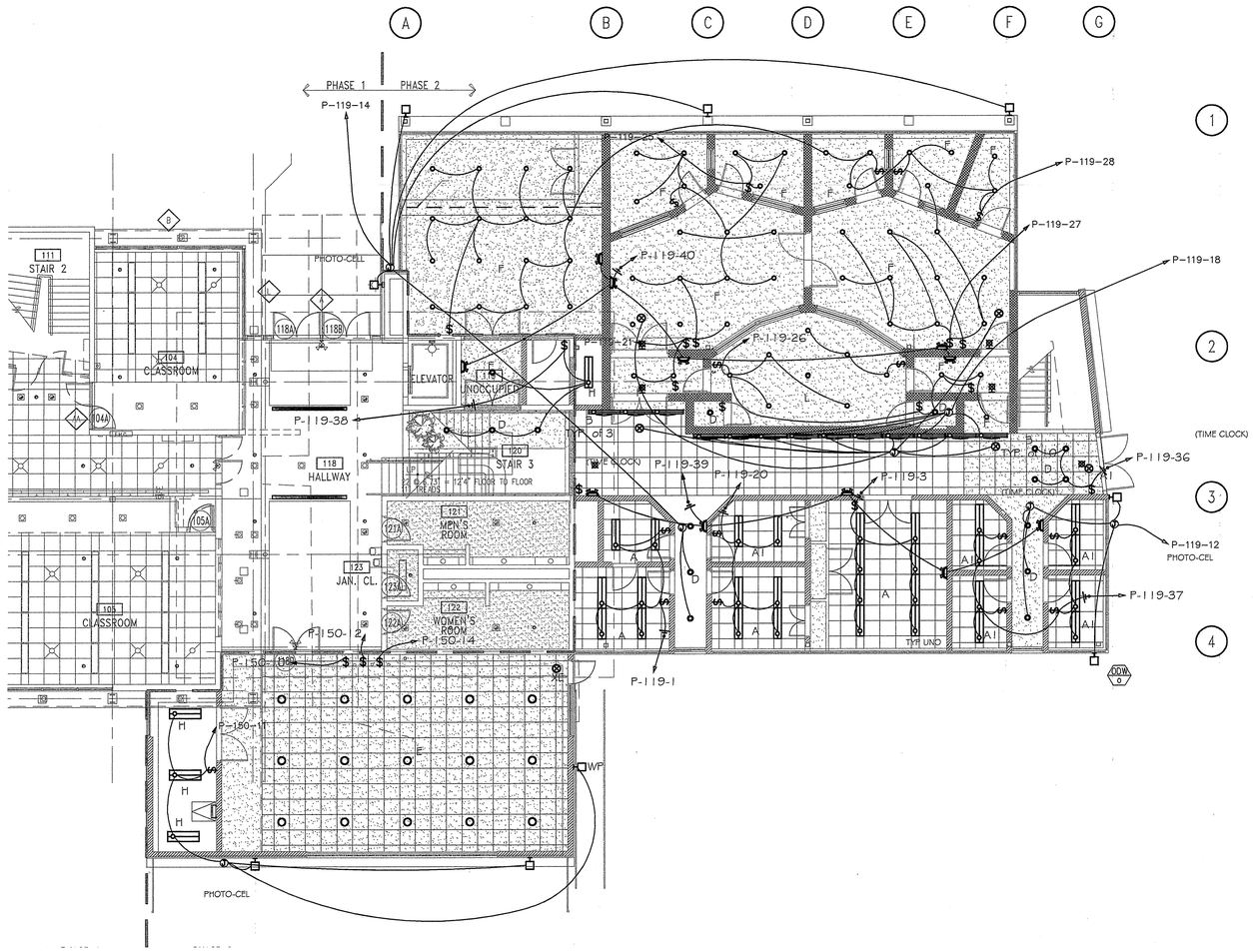
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ELECTRICAL ROOF PLAN

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ELECTRICAL LIGHTING - FIRST FLOOR

SCALE: 1/8"= 1'-0"

LIGHTING FIXTURE SCHEDULE (120V FIXTURES)

TYPE	MANUFACTURER	CATALOG #	LAMP	MOUNTING	COMMENTS
A	FOCAL POINT	FLU14 B 2 T8 E 120 G P5 L835 WH	F32T8/835	CEILING RECESSED	MATCH EXISTING
A1	FOCAL POINT	FLU14 B 3 T8 E 120 G P5 L835 WH	F32T8/835	CEILING RECESSED	MATCH EXISTING
B	P.A.L.	LMP02 PH 5E WR X' F01M 120 T8	F32T8/835	WALL SURFACE	MATCH EXISTING (4) (1)
C	FOCAL POINT	FS45 P5 3T8 1C 120 E C48 WH 16'	F32T8/835	CEILING PENDANT	(2)
D	MAXILUME	HH84PL 2X32 E 8541CL WH	PLT32W/835/4P	CEILING RECESSED	MATCH EXISTING
DE	MAXILUME	HH84PL 2X32 EM 8541CL WH	PLT32W/835/4P	CEILING RECESSED	MATCH EXISTING (4)
E	SPECTRUM	SGDGQT4 250 WD BH27 ARG2 1OCL PF	Q250T4/MC	WALL SURFACE	
F	EDISON PRICE	A21/7-COL	150A21/IF	CEILING RECESSED	
H	LITHONIA	LB 3 32 12013 GEB LP735	F32T8/735	WALL SURFACE	
L	EDISON PRICE	A19/5-COL	100A/IF	CEILING RECESSED	
G	LITHONIA	TWAC 70M TB LPI	INCLUDED	WALL SURFACE	
X	LITHONIA	LQM S W 3 R 120 / 277 EL N	INCLUDED	WALL SURFACE	MATCH EXISTING
EM	LITHONIA	ELM2	INCLUDED	WALL SURFACE	MATCH EXISTING
XE	LITHONIA	LHQM S W 3 R 120 / 277	INCLUDED	WALL SURFACE	MATCH EXISTING (4)
N	BEGA	6620MH 120V - SILVER	70WMH	WALL SURFACE	

(1) COORDINATE LENGTH w/ LOCATION ON FLOOR PLAN.
(2) COORDINATE CABLE LENGTH, INFIELD, w/ ARCHITECT.
(3) LEVITON DIMMING SYSTEM PER ARCHITECT SPECIFICATION.
(4) INCLUDE UNSWITCHED CCT FOR EMERGENCY BALLAST.

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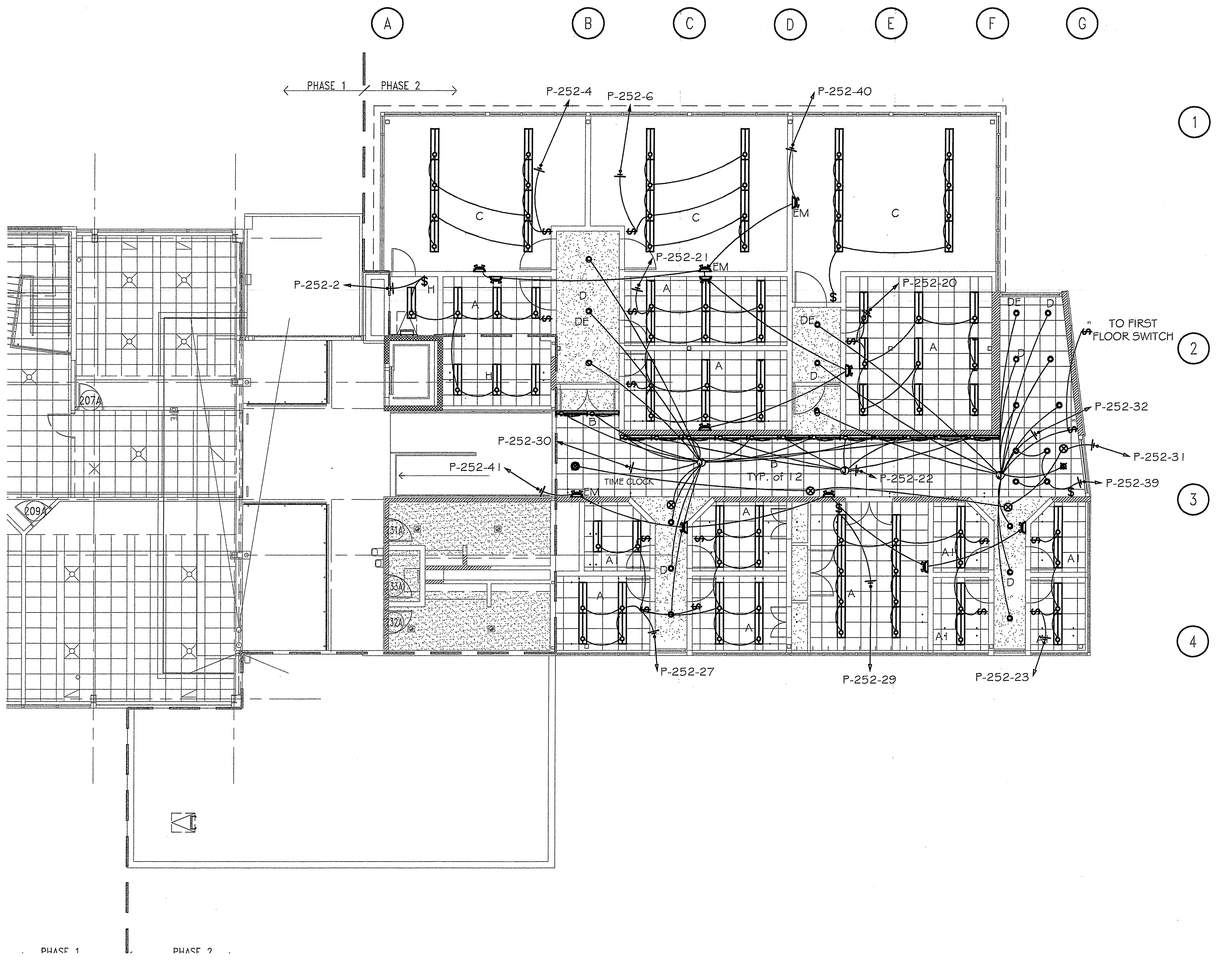
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ELECTRICAL LIGHTING FIRST FLOOR

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ELECTRICAL LIGHTING - SECOND FLOOR
SCALE: 1/8"=1'-0"

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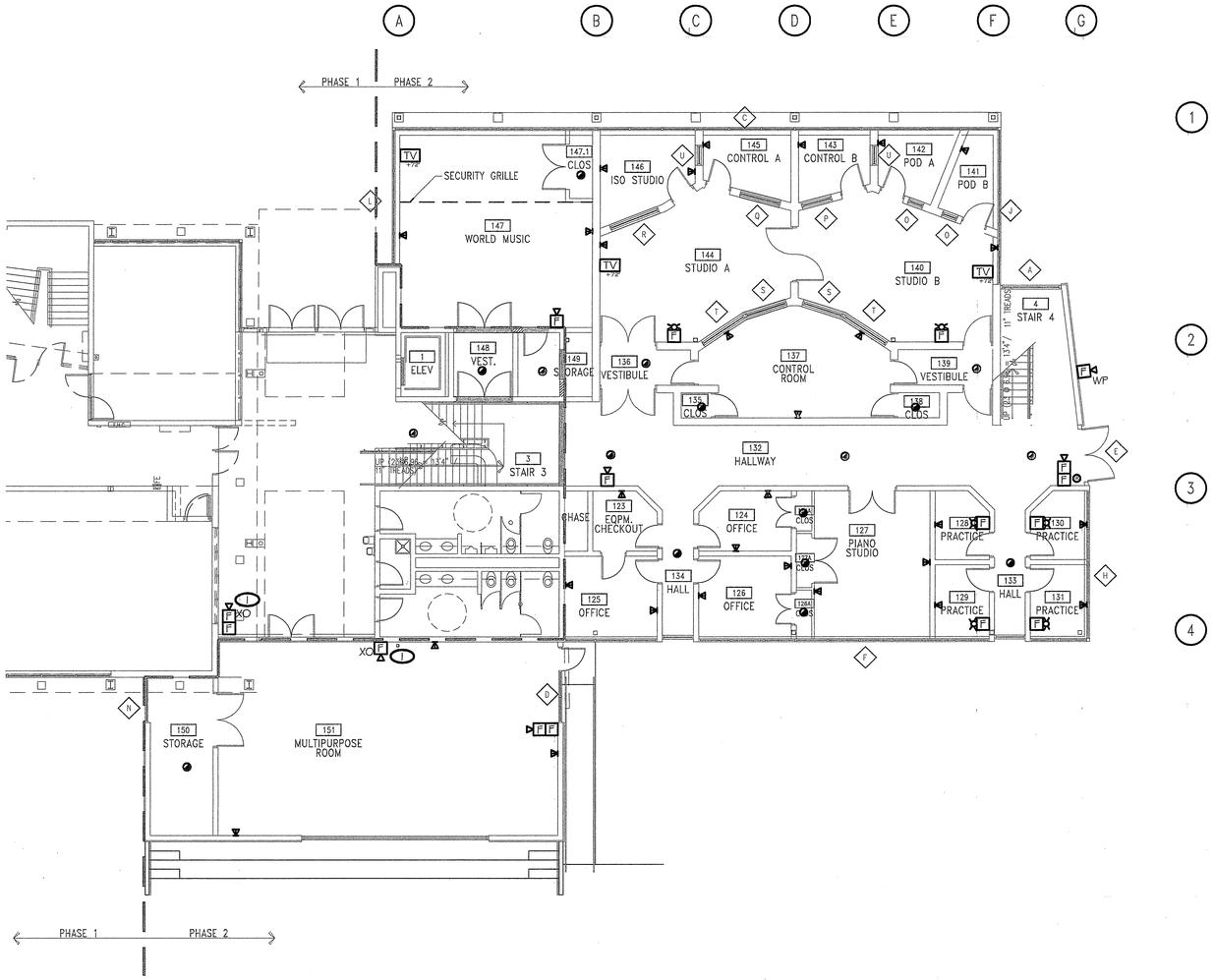
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ELECTRICAL
LIGHTING
SECOND FLOOR

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SPECIAL SYSTEMS - FIRST FLOOR

SCALE: 1/8"=1'-0"

GENERAL NOTES:

A.

KEYED NOTES:

1. EXISTING DEVICE REMOVED OUT COMPLETELY. TYPICAL

LEGEND:

- F PULL
- F HORN/STROBE
- SMOKE DETECTOR
- F STROBE
- HEAT
- TEL / DATA
- TV TYPICAL TV OUTLET @ 72"

SCHEDULE:

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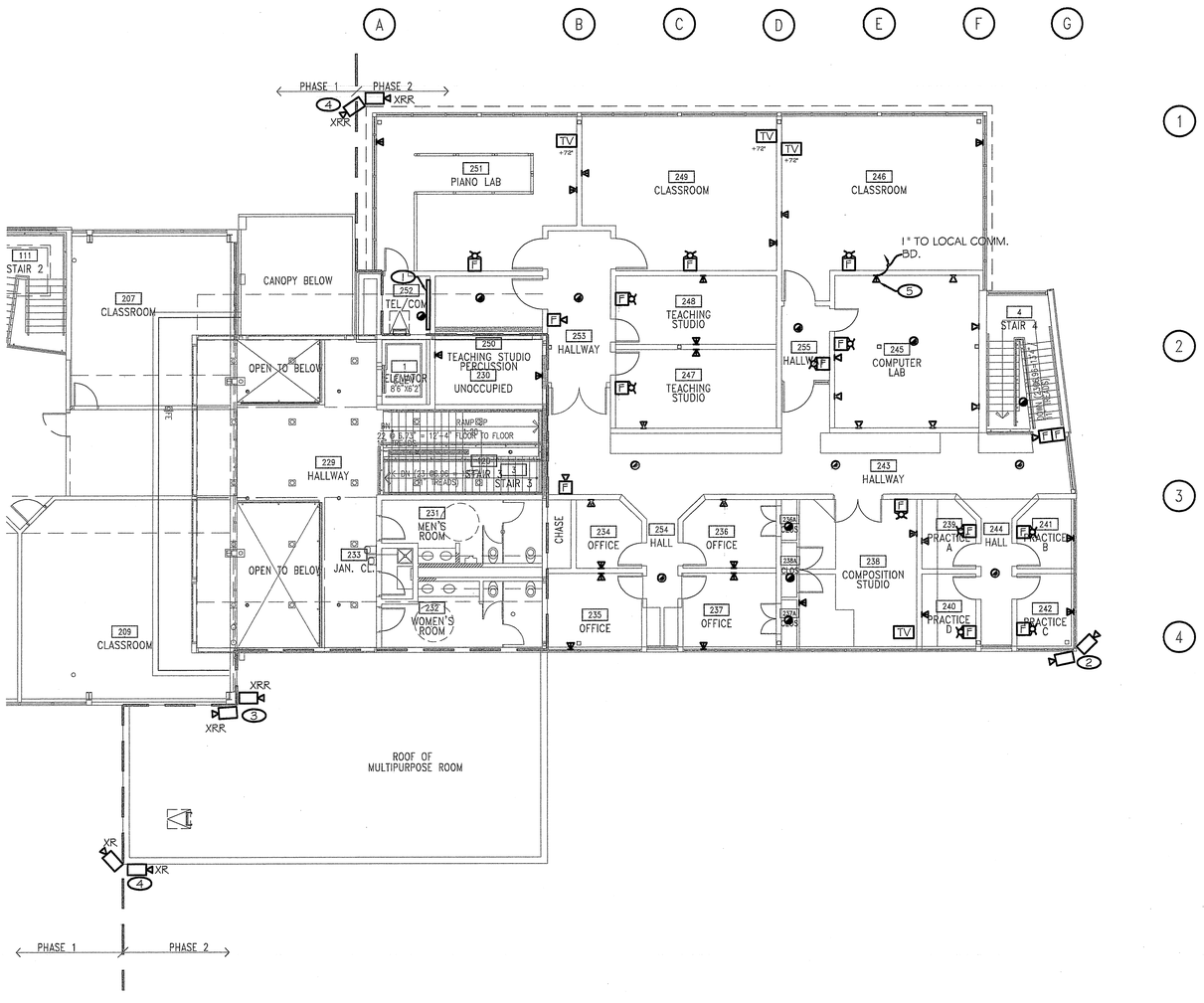
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SPECIAL SYSTEMS
FIRST FLOOR

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SPECIAL SYSTEMS - SECOND FLOOR

SCALE: 1/8"=1'-0"

GENERAL NOTES:

A.

KEYED NOTES:

1. COMMUNICATION BOARD 3/4" PLYWOOD 2-2' TO MAIN COMM. BD
2. CCTV CAMERA ROUGH-IN TYPICAL.
3. EXISTING DEVICE TO BE REMOVE AND RELOCATED TO A NEW POSITION.
4. EXISTING DEVICE TO BE RELOCATED TO A NEW POSITION.
5. 7 TOTAL COMPUTER OULET AND 1 TEL DATA.

LEGEND:

- F PULL
- F HORN/STROBE
- SMOKE DETECTOR
- F STROBE
- HEAT
- TEL / DATA
- COMPUTER OUTLET
- TV TYPICAL TV OUTLET @ 72"

SCHEDULE:

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SECOND FLOOR

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EXISTING MDP IN PHASE I

MDP

Panel — Room
Mounting FLUSH — Volts 208Y/120V 3P 4W — AIC 65,000
Fed from MAIN TRANS — Bus Amps 1200 — Main Bkr MLO
Note: — Neutral 100% — Lugs STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	400/3	59.6	P-119	a	2	225/3	82.8	P-150
3	400/3	72.6	P-252	b	4	20/3	0	SPACE
5	20/3	0	SPACE	c	6	20/3	0	SPACE
7	20/3	0	SPACE	a	8	20/3	0	SPACE
9	|			b	10	|		
11	|			c	12	|		
13	20/3	0	SPACE	a	14	20/3	0	SPACE
15	20/3	0	SPACE	b	16	20/3	0	SPACE
17	20/3	0	SPACE	c	18	20/3	0	SPACE
19	20/3	0	SPACE	a	20	20/3	0	SPACE
21	|			b	22	|		
23	|			c	24	|		
				a				
				b				
				c				
				a				
				b				
				c				
				a				
				b				
				c				

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	7.30	9.12	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	43.6	54.5	(125%)	HEATING	0.800	0.800	(100%)
OTHER MOTORS	1.31	1.31	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	32.6	21.3	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	215	216	

BALANCED THREE PHASE AMPS 600

PHASE BALANCE PERCENT: PHASE A 103% PHASE B 97.0% PHASE C 99.8%

FEEDER SCHEDULE

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
125	1-1/2"C, 3#1/0, #1/0N, #6G	P-136
225	2"C, 3#4/0, #4/0N, #4G	P-150
400	2"C, 3#600kcmil, #600kcmilN, #2G	P-119, P-252
1200	(3)3-1/2"C, 3#600kcmil, #600kcmilN, #3/0G	MDP

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

FAULT CURRENT SCHEDULE

LOCATION	AIC RATING	FAULT	FEEDER LENGTH	TRANSFORMER KVA	TRANSFORMER Z %	TRANSFORMER FAULT AT PRIMARY
MAIN TRANS	65,000	55,552		500	2.5	UTILITY
MDP	65,000	29,196	150'			
P-119	14,000	8,504	250'			
P-136	14,000	2,574	250'			
P-150	14,000	6,345	200'			
P-252	14,000	7,448	300'			

VOLTAGE DROP SCHEDULE

LOCATION	VOLTAGE DROP FEEDER 1	FEEDER 2	MAX. BRANCH CIRCUIT	TOTAL
MAIN TRANS	0%		---	0%
MDP	1.03%		---	1.03%
P-119	2.64%		1.74% (CKT 9)	4.38%
P-136	2.75%		0.23% (CKT 4)	2.98%
P-150	4.16%		2.82% (CKT 4,6,8)	6.98%
P-252	3.39%		2.56% (CKT 18)	5.95%

P-150

Room Storage room 150 — Volts 208Y/120V 3P 4W — AIC 14,000
Mounting RECESSED — Bus Amps 400 — Main Bkr 225
Fed from MDP — Neutral 100% — Lugs STANDARD
Note:

CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C
1	20/1	RECEPTACLE	0.900			2	20/1	RECEPTACLE	0.900		
3	40/3	RTU-3		3.21		4	125/3	P-136, Panel 136		23.7	
5	|				3.21	6	|				23.7
7	|		3.21			8	|		23.7		
9	20/1	RECEPTACLE		0.180		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
								TOTAL CONNECTED KVA BY PHASE	28.7	27.1	26.9

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0	0	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	35.6	44.5	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	45.2	45.2	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	1.98	1.98	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	82.8	91.7	

BALANCED THREE PHASE AMPS 254

P-119

Room Storage room 119 — Volts 208Y/120V 3P 4W — AIC 14,000
Mounting RECESSED — Bus Amps 400 — Main Bkr 400
Fed from MDP — Neutral 100% — Lugs STANDARD
Note:

CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C
1	20/1	RECEPTACLE, LIGHTING	1.46			2	20/1	RECEPTACLE	1.26		
3	20/1	LIGHTING		0.512		4	20/1	RECEPTACLE		1.08	
5	20/1	RECEPTACLE			1.08	6	20/1	RECEPTACLE			1.08
7	20/1	RECEPTACLE	0.720			8	20/1	RECEPTACLE	1.44		
9	20/1	RECEPTACLE		1.26		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
13	125/3	RTU-1	14.1			14	20/1	SPACE	0		
15	|			14.1		16	20/1	SPACE		0	
17	|				14.1	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	LIGHTING	0.384		
21	20/1	SPACE		0		22	20/1	FPM, FPM-1		1.26	
23	20/1	VAV			1.30	24	20/1	VAV			0.800
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	125/3	P-136			0.720	30	20/1	RECEPTACLE			1.08
31	|		0.720			32	20/1	RECEPTACLE	0.900		
33	|			0.180		34	20/1	RECEPTACLE		1.08	
35	20/1	RECEPTACLE			0.720	36	20/1	LIGHTING			0.256
37	20/1	LIGHTING	0.512			38	20/1	LIGHTING	0.320		
39	20/1	LIGHTING		0.320		40	20/1	LIGHTING		0.384	
41	20/1	SPACE			0	42	20/1	SPACE			0
								TOTAL CONNECTED KVA BY PHASE	21.8	20.1	21.1

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	3.07	3.84	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	42.2	52.7	(125%)	HEATING	0.800	0.800	(100%)
OTHER MOTORS	2.56	2.56	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	14.4	12.2	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	63.0	72.1	

BALANCED THREE PHASE AMPS 200

P-136

Room Control room 136 — Volts 208Y/120V 3P 4W — AIC 14,000
Mounting RECESSED — Bus Amps 225 — Main Bkr 125
Fed from P-119 — Neutral 100% — Lugs STANDARD
Note:

CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C
1	20/1	SPACE	0			2	20/1	RECEPTACLE	0.720		
3	20/1	RECEPTACLE		0.360		4	20/1	RECEPTACLE		0.360	
5	20/1	RECEPTACLE			0.180	6	20/1	SPACE			0
7	20/1	SPACE	0			8	20/1	SPACE	0		
9	20/1	SPACE		0		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
								TOTAL CONNECTED KVA BY PHASE	0.720	0.720	0.180

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0	0	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	0	0	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	0	0	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	1.62	1.62	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	1.62	1.62	

BALANCED THREE PHASE AMPS 4.49

P-252

Room Storage room 252 — Volts 208Y/120V 3P 4W — AIC 14,000
Mounting RECESSED — Bus Amps 400 — Main Bkr 400
Fed from MDP — Neutral 100% — Lugs STANDARD
Note:

CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD A	B	C
1	125/3	RTU-2	14.5			2	20/1	LIGHTING	0.448		
3	|			14.5		4	20/1	LIGHTING		0.512	
5	|				14.5	6	20/1	LIGHTING			0.512
7	20/1	RECEPTACLE	1.08			8	20/1	RECEPTACLE	0.720		
9	20/1	RECEPTACLE		1.26		10	20/1	RECEPTACLE		0.900	
11	20/1	RECEPTACLE			1.62	12	20/1	RECEPTACLE			0.720
13	20/1	RECEPTACLE	0.720			14	20/1	RECEPTACLE	1.26		
15	20/1	RECEPTACLE		0.900		16	20/1	RECEPTACLE		0.900	
17	20/1	RECEPTACLE			1.26	18	20/1	RECEPTACLE			1.44
19	20/1	RECEPTACLE	1.44			20	20/1	LIGHTING	0.576		
21	20/1	LIGHTING		0.768		22	20/1	LIGHTING		0.384	
23	20/1	LIGHTING			0.768	24	20/1	LIGHTING			0.0640
25	20/1	VAV	1.20			26	20/1	VAV	1.20		
27	20/1	LIGHTING		0.896		28	20/1	OVER HEAD DOORVAV		1.18	
29	20/1	LIGHTING			0.768	30	20/1	LIGHTING			0.704
31	20/1	LIGHTING	0.256			32	20/1	LIGHTING	0.832		
33	20/1	RECEPTACLE		0.900		34	20/1	RECEPTACLE		0.720	
35	20/1	VAV			0.800	36	20/1	RECEPTACLE			1.08
37	20/1	RECEPTACLE	0.180			38	20/1	VAV	0.800		
39	20/1	LIGHTING		0.256		40	20/1	LIGHTING		0.448	
41	20/1	LIGHTING			0.320	42	20/1	RECEPTACLE			0.180
								TOTAL CONNECTED KVA BY PHASE	25.2	24.6	24.8

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	8.51	10.6	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	43.6	54.5	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	5.18	5.18	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	17.3	13.6	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	74.6	84.0	

BALANCED THREE PHASE AMPS 233

FEEDER SCHEDULE

THREE PHASE, FOUR WIRE + GROUND FEEDERS					THREE PHASE, THREE WIRE + GROUND FEEDERS				
DESIGNATION	CONDUIT	CONDUCTORS	GROUND	COMMENTS	DESIGNATION	CONDUIT	CONDUCTORS	GROUND	COMMENTS
30Y	3/4"	4#10	10	-	30Δ	3/4"	3#10	10	-
35Y	3/4"	4#8	10	-	35Δ	3/4"	3#8	10	-
40Y	3/4"	4#8	10	-	40Δ	3/4"	3#8	10	-
45Y	3/4"	4#8	10	-	45Δ	3/4"	3#8	10	-
50Y	3/4"	4#8	10	-	50Δ	3/4"	3#8	10	-
60Y	1"	4#6	10	-	60Δ	1"	3#6	10	-
70Y	1-1/4"	4#4	8	-	70Δ	1-1/4"	3#4	8	-
80Y	1-1/4"	4#4	8	-	80Δ	1-1/4"	3#4	8	-
90Y	1-1/4"	4#2	8	-	90Δ	1-1/4"	3#2	8	-
100Y	1-1/4"	4#2	8	-	100Δ	1-1/4"	3#2	8	-
125Y	1-1/2"	4#1	6	-	125Δ	1-1/2"	3#1	6	-
150Y	2"	4#1/0	6	-	150Δ	1-1/2"	3#1/0	6	-
175Y	2"	4#2/0	6	-	175Δ	2"	3#2/0	6	-
200Y	2"	4#3/0	6	-	200Δ	2"	3#3/0	6	-
225Y	2-1/2"	4#4/0	4	-	225Δ	2-1/2"	3#4/0	4	-
250Y	3"	4#250 KCMIL	4	-	250Δ	3"	3#250 KCMIL	4	-
300Y	3"	4#350 KCMIL	4	-	300Δ	3"	3#350 KCMIL	4	-
350Y	4"	4#500 KCMIL	3	-	350Δ	4"	3#500 KCMIL	3	-
400Y	4"	4#500 KCMIL	3	-	400Δ	4"	3#500 KCMIL	3	-
450Y	(2)2-1/2"	(2)4#4/0	2	-	450Δ	(2)2-1/2"	(2)3#4/0	2	-
500Y	(2)3"	(2)4#250 KCMIL	2	-	500Δ	(2)3"	(2)3#250 KCMIL	2	-
600Y	(2)3"	(2)4#350 KCMIL	1	-	600Δ	(2)3"	(2)3#350 KCMIL	1	-
700Y	(2)4"	(2)4#500 KCMIL	1	-	700Δ	(2)4"	(2)3#500 KCMIL	1	-
800Y	(2)4"	(2)4#500 KCMIL	1/0	-	800Δ	(2)4"	(2)3#500 KCMIL	1/0	-
1000Y	(3)3"	(3)4#400 KCMIL	2/0	-	1000Δ	(3)3"	(3)3#400 KCMIL	2/0	-
1200Y	(4)4"	(4)4#500 KCMIL	3/0	-	1200Δ	(4)4"	(4)3#500 KCMIL	3/0	-
1600Y	(5)4"	(5)4#500 KCMIL	4/0	-	1600Δ	(5)4"	(5)3#500 KCMIL	4/0	-
2000Y	(6)4"	(6)4#500 KCMIL	250 KCMIL	-	2000Δ	(6)4"	(6)3#500 KCMIL	250 KCMIL	-
2500Y	(7)4"	(7)4#500 KCMIL	350 KCMIL	-	2500Δ	(7)4"	(7)3#500 KCMIL	350 KCMIL	-
3000Y	(8)4"	(8)4#500 KCMIL	400 KCMIL	-	3000Δ	(8)4"	(8)3#500 KCMIL	400 KCMIL	-
4000Y	(12)4"	(12)4#500 KCMIL	500 KCMIL	-	4000Δ	(12)4"	(12)3#500 KCMIL	500 KCMIL	-
5000Y	(16)4"	(16)4#500 KCMIL	500 KCMIL	-	5000Δ	(16)4"	(16)3#500 KCMIL	500 KCMIL	-

NOTES:
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11-8-04

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

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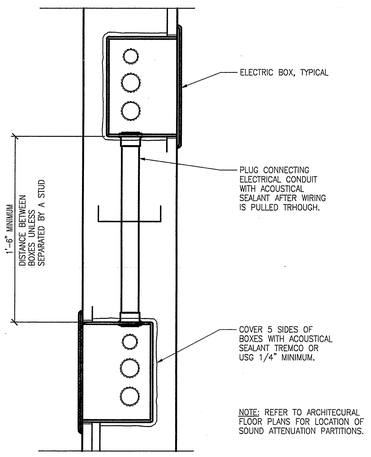
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DATE:	11/08/04

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ELECTRICAL PANEL SCHEDULES

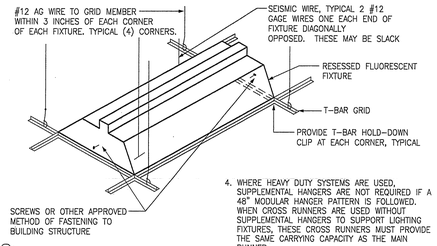
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SOUND ATTENUATION PARTITION ELECTRICAL OUTLETS PLAN DETAIL 5

Scale: N.T.S.

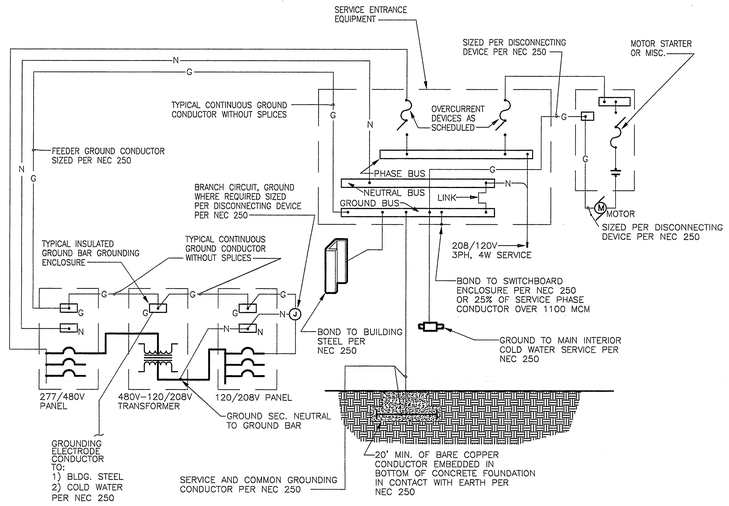


NOTES:

1. ALL ELECTRICAL EQUIPMENT CONDUIT, FIXTURES, ETC., SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE, AS PER CITY ORDINANCE.
2. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHTING FIXTURE WEIGHT ACTING IN ANY DIRECTION.
3. WHEN INTERMEDIATE SYSTEMS ARE USED, #12 GAGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.
4. WHERE HEAVY DUTY SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48" MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.
5. LIGHTING FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO #12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
6. LIGHTING FIXTURES WEIGHING 56 OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.
7. PENDANT HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING #9 GAGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.

TROFFER SUPPORT DETAIL 2

Scale: NTS



TYPICAL GROUNDING DETAIL 1

Scale: NTS

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
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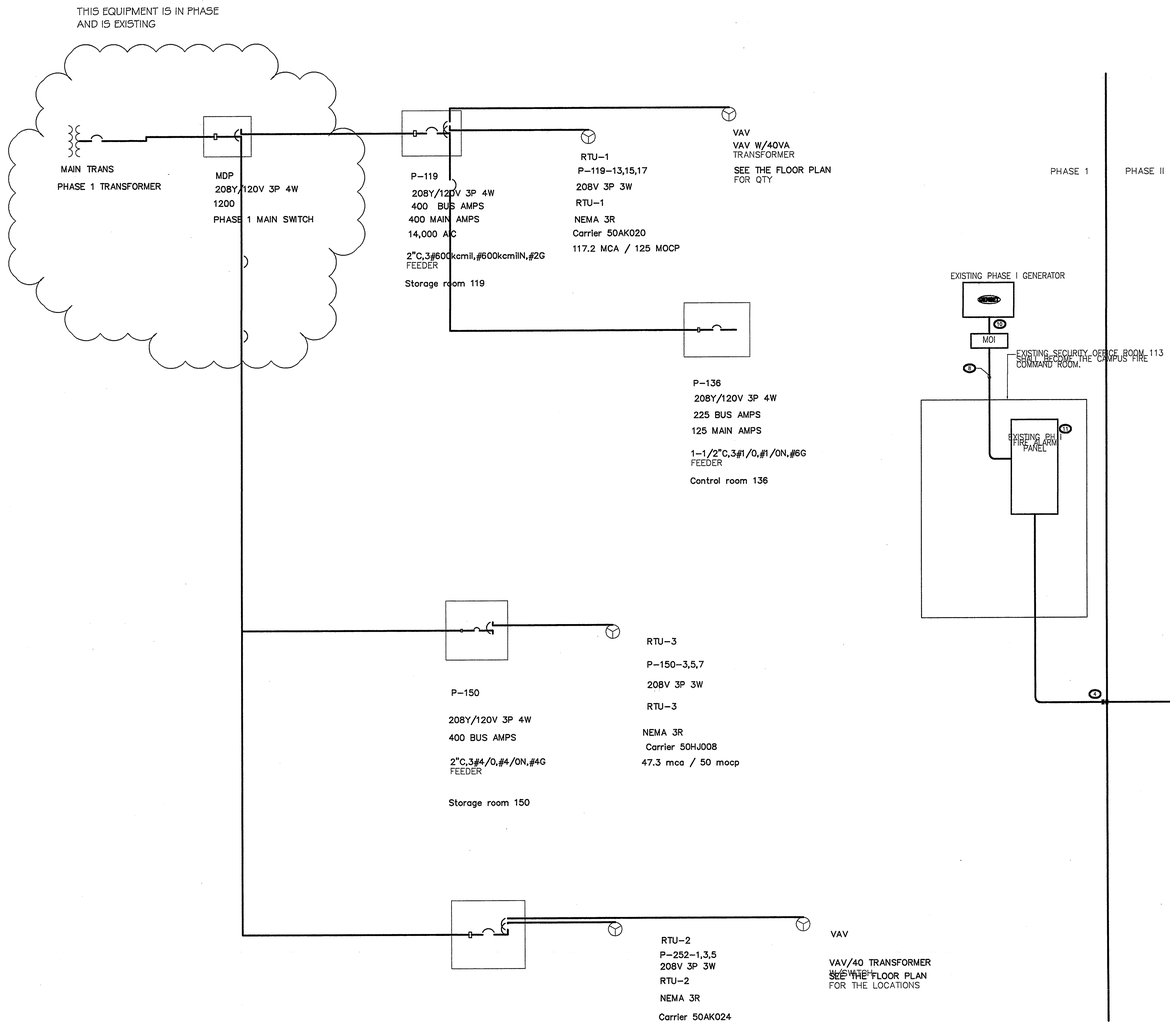
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CAD DWG FILE:	E-501.DWG
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CHECKED BY:	JGK
DATE:	11/08/04

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ELECTRICAL DETAILS

E-501
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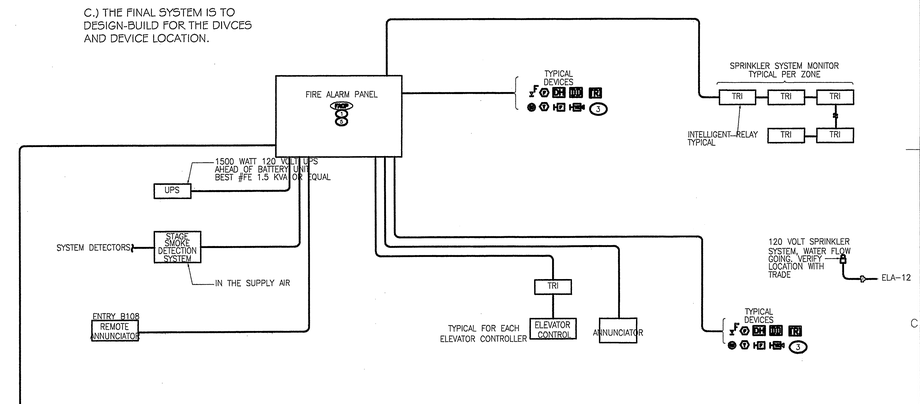
MAIN POWER RISER DIAGRAM

SCALE: NONE

A.) INTEGRATE THE PHASE II SYSTEM INTO THE PHASEI SYSTEM TO PROVIDE A SINGLE FIRE ALARM SYSTEM.

B.) PROVIDE THE DEVICES AS REQUIRED BY THE AHJ.

C.) THE FINAL SYSTEM IS TO DESIGN-BUILD FOR THE DIVCES AND DEVICE LOCATION.



FIRE ALARM SYSTEM RISER DIAGRAM

SCALE: NONE

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Architect | Engineer

JOHN G. KOSANOVICH NEW MEXICO (12480) REGISTERED PROFESSIONAL ENGINEER 11-8-04

BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	E-601.DWG
DRAWN BY:	ARR
CHECKED BY:	JGK
DATE:	11/08/04

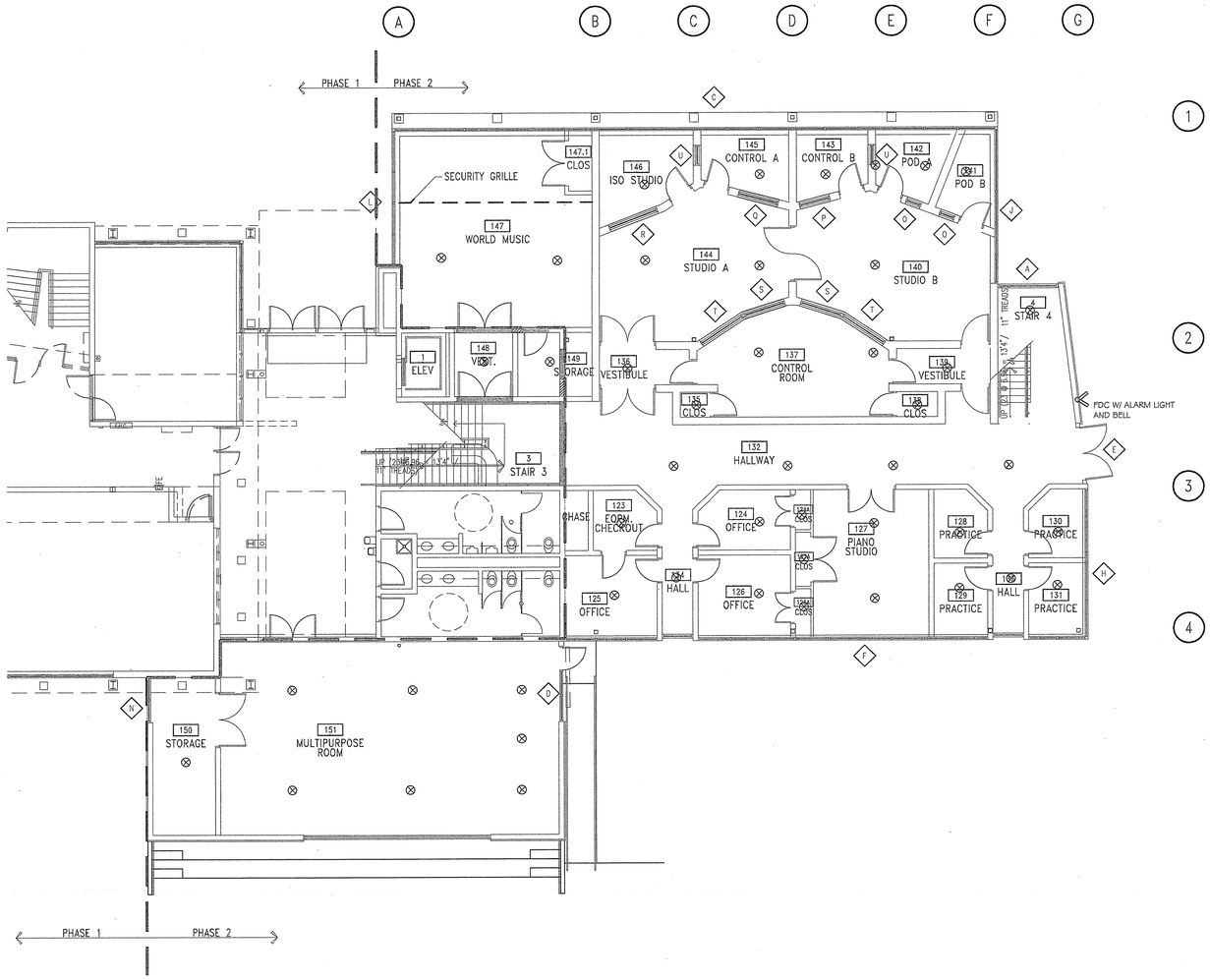
SHEET TITLE

ELECTRICAL CONTROLS & SCHEDULES

E-601

sheet of . sheets

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FIRE PROTECTION - FIRST FLOOR

SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. SYSTEM SHALL BE A "DESIGN-BUILD" SYSTEM, FINAL DESIGN, WORKING DRAWINGS & PERMITS SHALL BE BY THE CONTRACTOR & APPROVED BY THE ENGINEER.

B. SYSTEM SHALL BE PER NFPA 13 FOR "LIGHT HAZARD" GROUP 2.

C. SYSTEM SHALL BE "TREE" DESIGN, ALL MAINS TO BE SUPPORTED BY THE BUILDING.

D. PROVIDE SHIELDS PER NFPA FOR ALL ELECTRICAL EQUIPMENT.

E. PROVIDE SEISMIC BRACING ON ALL PIPING AS APPROVED BY THE STRUCTURAL ENGINEER.

F. PROVIDE UPRIGHT HEADS IN EXPOSED STRUCTURE SPACES.

G. CONNECT PHASE II TO THE EXISTING PHASE I MAIN SYSTEM. AS APPROVED BY THE AHJ

H. PIPING SHALL BE STEEL PIPE.

I. SYSTEM DESIGN, CALCULATIONS & PERMIT IS BY THE DESIGN-BUILD CONTRACTOR AS APPROVED BY "AUTHORITY HAVING JURISDICTION."

J. INSTALL AUTOMATIC SPRINKLERS IN EQUIPMENT ROOM PER NFPA 13.

K. MAIN ENTRANCE WATER LINE SIZE AT 6". CONFIRM HYDRAULIC CALCULATION PER NFPA 13. PROVIDE A FULL LINE SIZED. REDUCED PRESSURE BACK FLOW PREVENTION DEVICE (RPBP) AND/OR AS APPROVED BY THE CITY OF SANTA FE w/ "HOT BOX". PHASE I

L. ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED 0200 FOR TWO HOURS PSI ABOVE SYSTEM OPERATING PRESSURE. WHICHEVER IS GREATER.

M. FIRE DEPARTMENT CONNECTIONS SHALL BE VISIBLE, ACCESSIBLE, w/ CITY OF SANTA FE THREADS, FEMALE OUTLETS, PROTECTIVE CAPS, & A CHECK VALVE LOCATED IN THE MAIN LINE. CHECK VALVE IS TO BE LOCATED AS CLOSE TO THE F.D.C. AS POSSIBLE. OUTLET CONNECTIONS TO BE LOCATED 3'-6' A.F.F. OR GRADE. PHASE I

N. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION. ALL VALVE HANDLES TO BE RELOCATED 7'-0" (MAX) A.F.F.

O. A STOCK OF SPARE SPRINKLERS OF EACH STYLE, & TEMPERATURE RATING, w/ SPRINKLER WRENCH, SHALL BE LOCATED AT THE RISER.

P. WHEN SYSTEM SERVES 100 OR MORE SPRINKLERS, THE SYSTEM IS TO BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM, WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

Q. ALL MATERIALS USED IN THE INSTALLATION OF THIS SYSTEM(S) SHALL BE NEW & OF CURRENT ISSUE. ALL MATERIALS SHALL BE APPROVED BY UL (UNDERWRITERS LAB) & FM (FACTORY MUTUAL) & BE IN CONFORMANCE w/ THE MOST CURRENT ISSUE OF THE NFPA-13 AS WELL AS THE "AUTORITY HAVING JURISDICTION" (AHJ).

R. JOINING OF PIPE & FITTINGS WILL BE IN ACCORDANCE w/ NFPA-13.

S. WELDING SHALL BE IN STRICT ACCORDANCE w/ NFPA-13.

T. SYSTEMS PIPNG WILL BE SUPPORTED w/ HANGERS IN ACCORDANCE w/ NFPA-13 & TRUSS MANUFACTURER'S REQUIREMENTS.

U. PROVISIONS OF SEISMIC SWAY BRACING SHALL BE IN ACCORDANCE w/ NFPA-13.

V. HEADS IN GENERAL AREAS TO BE PENDANT.

WATER SUPPLY: CITY OF SANTA FE
STATIC PRESSURE: UNKNOWN
RESIDUAL PRESSURE: UNKNOWN
500 GPM FLOWING

AUTHORITY HAVING JURISDICTION
STATE FIRE MARSHALL &
THE CITY OF SANT FE, NM

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BENILDUS HALL PHASE 2

COLLEGE OF SANTA FE
1600 ST. MICHAEL'S DRIVE
SANTA FE, NM

MARK	DATE	DESCRIPTION

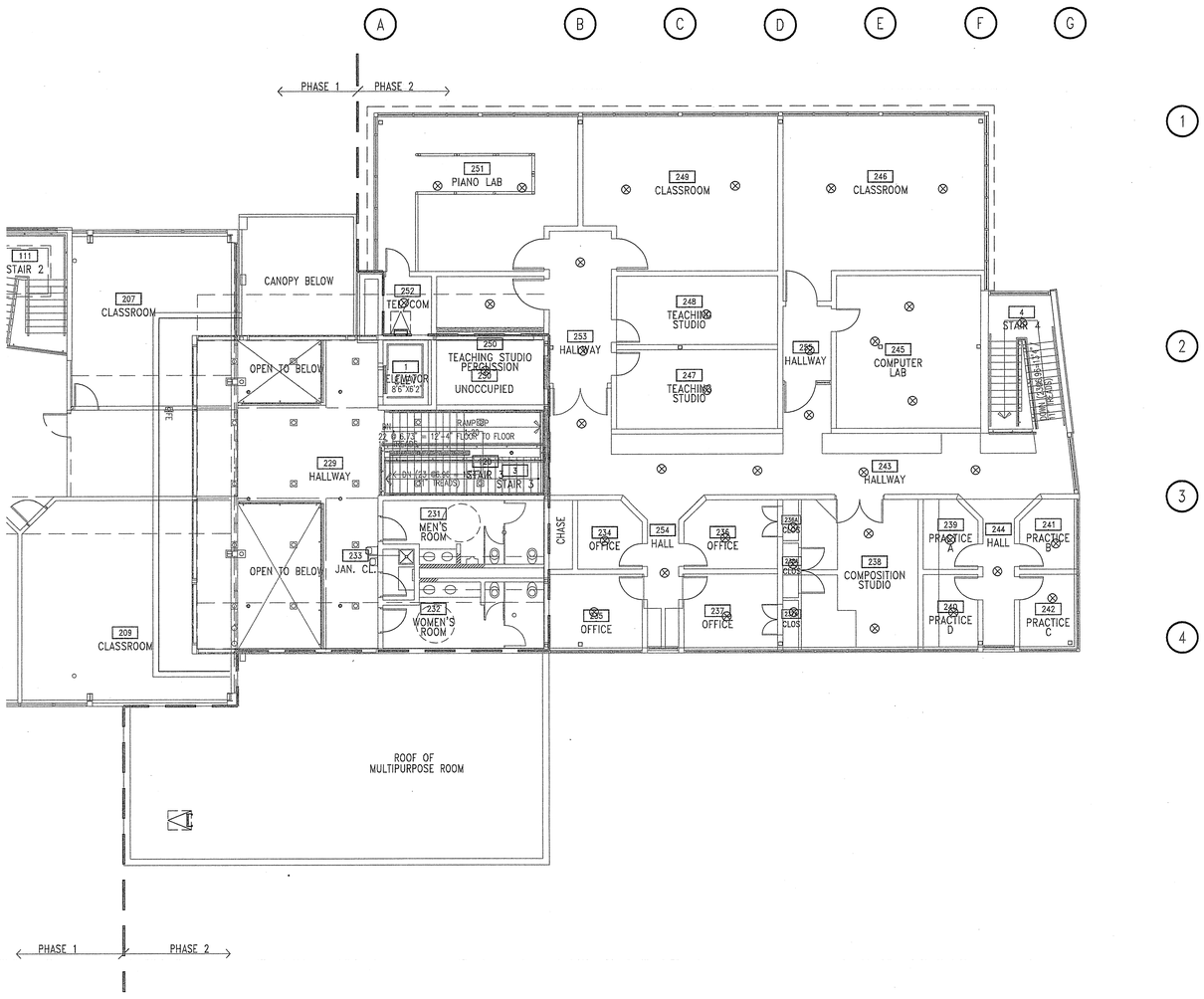
ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	FP-101.DWG
DRAWN BY:	ARR
CHECKED BY:	JGK
DATE:	11/08/04

SHEET TITLE

FIRE PROTECTION
FIRST FLOOR

FP-101
sheet of . sheets

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FIRE PROTECTION - SECOND FLOOR

SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. SYSTEM SHALL BE A "DESIGN-BUILD" SYSTEM, FINAL DESIGN, WORKING DRAWINGS & PERMITS SHALL BE BY THE CONTRACTOR & APPROVED BY THE ENGINEER.

B. SYSTEM SHALL BE PER NFPA 13 FOR "LIGHT HAZARD" GROUP 2.

C. SYSTEM SHALL BE "TREE" DESIGN, ALL MAINS TO BE SUPPORTED BY THE BUILDING.

D. PROVIDE SHIELDS PER NFPA FOR ALL ELECTRICAL EQUIPMENT.

E. PROVIDE SEISMIC BRACING ON ALL PIPING AS APPROVED BY THE STRUCTURAL ENGINEER.

F. PROVIDE UPRIGHT HEADS IN EXPOSED STRUCTURE SPACES.

G. CONNECT PHASE II TO THE EXISTING PHASE I MAIN SYSTEM. AS APPROVED BY THE AHJ

H. PIPING SHALL BE STEEL PIPE.

I. SYSTEM DESIGN, CALCULATIONS & PERMIT IS BY THE DESIGN-BUILD CONTRACTOR AS APPROVED BY "AUTHORITY HAVING JURISDICTION."

J. INSTALL AUTOMATIC SPRINKLERS IN EQUIPMENT ROOM PER NFPA 13.

K. MAIN ENTRANCE WATER LINE SIZE AT 6". CONFIRM HYDRAULIC CALCULATION PER NFPA 13. PROVIDE A FULL LINE SIZED. REDUCED PRESSURE BACK FLOW PREVENTION DEVICE (RPBP) AND/OR AS APPROVED BY THE CITY OF SANTA FE w/ "HOT BOX". PHASE I

L. ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED @200 FOR TWO HOURS PSI ABOVE SYSTEM OPERATING PRESSURE. WHICHEVER IS GREATER.

M. FIRE DEPARTMENT CONNECTIONS SHALL BE VISIBLE, ACCESSIBLE, w/ CITY OF SANTA FE THREADS, FEMALE OUTLETS, PROTECTIVE CAPS, & A CHECK VALVE LOCATED IN THE MAIN LINE. CHECK VALVE IS TO BE LOCATED AS CLOSE TO THE F.D.C. AS POSSIBLE. OUTLET CONNECTIONS TO BE LOCATED 3'-6" A.F.F. OR GRADE. PHASE I

N. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION. ALL VALVE HANDLES TO BE RELOCATED 7'-0" (MAX) A.F.F.

O. A STOCK OF SPARE SPRINKLERS OF EACH STYLE, & TEMPERATURE RATING, w/ SPRINKLER WRENCH, SHALL BE LOCATED AT THE RISER.

P. WHEN SYSTEM SERVES 100 OR MORE SPRINKLERS, THE SYSTEM IS TO BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM, WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

Q. ALL MATERIALS USED IN THE INSTALLATION OF THIS SYSTEM(S) SHALL BE NEW & OF CURRENT ISSUE. ALL MATERIALS SHALL BE APPROVED BY UL (UNDERWRITERS LAB) & FM (FACTORY MUTUAL) & BE IN CONFORMANCE w/ THE MOST CURRENT ISSUE OF THE NFPA-13 AS WELL AS THE "AUTORITY HAVING JURISDICTION" (AHJ).

R. JOINING OF PIPE & FITTINGS WILL BE IN ACCORDANCE w/ NFPA-13.

S. WELDING SHALL BE IN STRICT ACCORDANCE w/ NFPA-13.

T. SYSTEMS PIPNG WILL BE SUPPORTED w/ HANGERS IN ACCORDANCE w/ NFPA-13 & TRUSS MANUFACTURER'S REQUIREMENTS.

U. PROVISIONS OF SEISMIC SWAY BRACING SHALL BE IN ACCORDANCE w/ NFPA-13.

V. HEADS IN GENERAL AREAS TO BE PENDANT.

WATER SUPPLY: CITY OF SANTA FE
STATIC PRESSURE: UNKNOWN
RESIDUAL PRESSURE: UNKNOWN
500 GPM FLOWING

AUTHORITY HAVING JURISDICTION
STATE FIRE MARSHALL &
THE CITY OF SANT FE, NM

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Architect Engineer

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SANTA FE, NM

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION SET
PROJECT NO:	0335P2
CAD DWG FILE:	FP-102.DWG
DRAWN BY:	ARR
CHECKED BY:	JGK
DATE:	11/08/04

SHEET TITLE

FIRE PROTECTION
SECOND FLOOR

FP-102

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