ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

| DATE: 2/11/2025 | RFP NO | NMSU PROJECT NO: 4585 | ARCHITECT'S PROJECT NO: NMSU2023-01

NMSU

FACILITIES AND SERVICES;
PROJECT DEVELOPMENT
AND ENGINEERING

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DESIGN TEAM

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DESIGN CODES

APPLICABLE DESIGN CODES	YEAR
NEW MEXICO COMMERCIAL BUILDING CODE	2021
INTERNATIONAL BUILDING CODE	2021
NEW MEXICO EXISTING BUILDING CODE	2021
INTERNATIONAL EXISTING BUILDING CODE	2021
NEW MEXICO ENERGY CONSERVATION CODE	2021
INTERNATIONAL ENERGY CONSERVATION CODE	2021
NEW MEXICO PLUMBING CODE	2021
UNIFORM PLUMBING CODE	2021
NEW MEXICO MECHANICAL CODE	2021
UNIFORM MECHANICAL CODE	2021
NEW MEXICO ELECTRICAL CODE	2020
NATIONAL ELECTRICAL CODE	2020
NEW MEXICO ELECTRICAL SAFETY CODE	2012
NATIONAL ELECTRICAL SAFETY CODE	2012
INTERNATIONAL FIRE CODE	2021
ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS	2017

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M021 HVAC SCHEMATICS
M022 HVAC SCHEMATICS
MD101 HVAC DEMOLITION PLAN
M101 HVAC NEW WORK PLAN
M111 HVAC NEW WORK ROOF PLAN
M201 HVAC SECTIONS

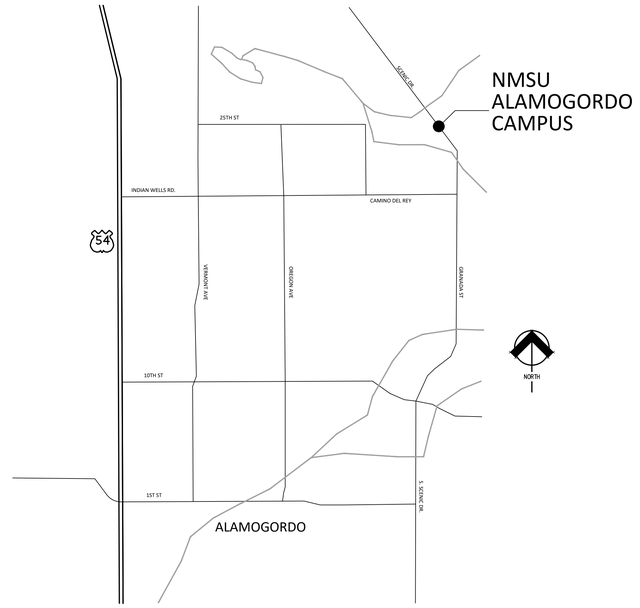
P001 PLUMBING GENERAL NOTES & LEGEND
P011 PLUMBING SCHEDULES
P021 PLUMBING SCHEMATICS
P101 PLUMBING NEW WORK PLAN
P102 PLUMBING NEW WORK PLAN
PS101 PLUMBING NEW WORK SITE PLAN
P111 PLUMBING NEW WORK ROOF PLAN
PD101 PLUMBING DEMOLITION PLAN

F001 FIRE PROTECTION DEMOLITION PLAN
F101 FIRE PROTECTION DEMOLITION PLAN
F102 FIRE PROTECTION NEW WORK PLAN

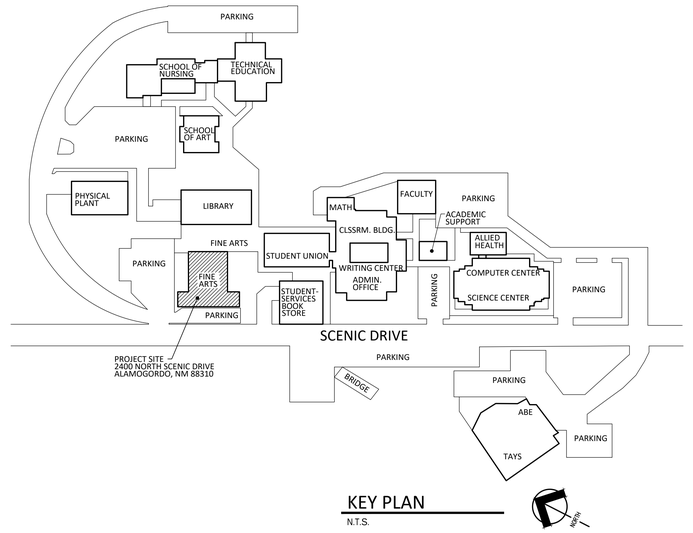
AV000 AV LEGEND & ADVISORIES
AV101 AV FLOOR PLAN
AV201 AV BUILDING SECTIONS
AV301 AV REFLECTED CEILING PLAN
AV601 AV RACK AND PLATE DETAILS
AV602 AV ONELINE

E001 ELECTRICAL LEGEND & NOTES
E002 ELECTRICAL RISER, NOTES, DETAILS, & SCHEDULES
ED101 ELECTRICAL DEMOLITION PLAN
E101 ELECTRICAL LIGHTING & HVAC POWER NEW WORK PLANS
E102 ELECTRICAL POWER & SPECIAL SYSTEMS NEW WORK PLANS

VICINITY MAP



LOCATION MAP



KEY PLAN

N.T.S.

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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025 | Scale: VARIES
Drawn by: KP | Checked by: MK
Revisions:

Title: COVER SHEET

Project No. NMSU2023-01

G101

NMSU2023-01 G101 Cover Sheet.dwg

ROOF PLAN HATCH

PVC OR TPO ROOFING SYSTEM

NOT WORK AREA

CORRUGATED ROOFING

METAL ROOFING

CLAY TILE ROOFING

ROOF PLAN LEGEND

ROOF DRAIN (RD)

OVERFLOW DRAIN (OF)

1" RECESS AREA AROUND ROOF DRAINS

ROOF DRAIN (RD)
SUMP AREA

SCUPPER

DOWNSPOUT BOX

SPILLOUT SCUPPER

SPLASH BLOCK

SPLASH PAN

GALVANIZED GUTTER WITH BRACKETS

SLOPE DIRECTION — RIDGE — SLOPE DOWN — SLOPE DOWN

CRICKET DIRECTION OF FLOW

MECHANICAL EQUIPMENT

VENT THROUGH ROOF (VTR)

NEW WALKING PADS

EXISTING WALKING PADS

EXTRA LAYER OF TPO OR PVC 20" x 30" MINIMUM

EXTERIOR DUCT WRAP WITH INSULATION

ROOF PLAN LEGEND

ROOF HATCH

ATTIC ACCESS PANEL

ATTIC LADDER UNIT

ACCESS LADDER WITH PARAPET RETURN & CROSS OVER PLATFORM

ACCESS LADDER WITH PARAPET RETURN & CROSS OVER PLATFORM CAGE & SECURITY DOOR

SHIPS LADDER WITH PARAPET RETURN WITH CROSS OVER PLATFORM

SKYLIGHT

PANEL SKYLIGHT

DOME SKYLIGHT

ROOF PLAN LINETYPES

NEW ELECTRICAL

EXISTING ELECTRICAL

DEMO EXISTING ELECTRICAL

NEW WATER LINE

EXISTING PITCH PAN
EXISTING WATER LINE

DEMO EXISTING WATER LINE

NEW GAS
ROLLER PIPE SUPPORT

EXISTING GAS
WOOD SLEEPER

DEMO EXISTING GAS

NEW CONDENSATE DRAIN

EXISTING CONDENSATE DRAIN

DEMO EXISTING CONDENSATE DRAIN

NEW ROOF DRAIN

EXISTING ROOF DRAIN

DEMO EXISTING ROOF DRAIN

NEW OVERFLOW DRAIN

EXISTING OVERFLOW DRAIN

DEMO EXISTING OVERFLOW DRAIN

NEW EVAPORATIVE COOLER WATER LINE

EXISTING EVAPORATIVE COOLER WATER LINE

DEMO EXISTING EVAPORATIVE COOLER WATER LINE

SHUT OFF SWITCH BOX

CONDUIT PENATRATION WITH PITCH PAN

ELECTRICAL PANEL

ROOF MECH. LEGEND

HEATED VENT STACK

VENT STACK (ROUND TOP)

EXHAUST FAN UNIT

ATTIC EXAUST FAN

AIR IN TAKE

VENT HOODS

CONDENSING UNIT 32 X 32

AIR CONDITIONER UNIT

ROOF PENETRATION CAP

EXHAUST FAN

EXHAUST HOOD

EXHAUST HOOD

EXHAUST HOOD

RETURN HOOD

MECHANICAL EQUIPMENT

ANNOTATION SYMBOLS

BUILDING SECTION INDICATOR

OPPOSITE HAND
O.H SIM. SIMILAR O.H SIM.
00/A-00 00/A-00
SHEET ON WHICH SHOWN
BUILDING SECTION NUMBER

WALL SECTION INDICATOR

OPPOSITE HAND
O.H SIM. SIMILAR
00/A-00
SHEET ON WHICH SHOWN
WALL SECTION NUMBER

ELEVATION VIEW INDICATOR

OPPOSITE HAND
O.H SIM. SIMILAR
00/A-00
SHEET ON WHICH SHOWN
ELEVATION NUMBER

MULTI-ELEVATIONS VIEW INDICATOR

SHEET ON WHICH SHOWN
OPPOSITE HAND (TYP.)
ELEVATION LETTER (TYP.)
SIMILAR (TYP.)
ELEVATION NUMBER

MATCH LINE INDICATOR

MATCH LINE
SEE XX/XX-XXX
SHEET ON WHICH CONTINUES

GRID INDICATOR

GRID NUMBER OR LETTER
GRID LINE

ROOM IDENTIFIER

ROOM NAME
ROOM TITLE
NUM FINISH DESIGNATION
ROOM NUMBER

DETAIL IDENTIFIER

SIM./O.H./TYP. SIMILAR, TYPICAL, OR OPPOSITE HAND
00-00
SHEET ON WHICH SHOWN
DETAIL NUMBER
EXTERIOR/INTERIOR ELEVATIONS

DETAIL IDENTIFIER

OPPOSITE HAND
DETAIL NUMBER
SIM. :9 O.H SIMILAR
A-71
SHEET ON WHICH SHOWN
OR
BUILDING/WALL SECTIONS PLAN VIEW

SPOT DIMENSION

E. 00-00 ± HEIGHT INDICATION (ABOVE FINISH FLOOR LEVEL ELEVATION)
A.F.F.

ENLARGED IDENTIFIER

SIMILAR
OPPOSITE HAND
ENLARGED NUMBER
SIM./O.H 00 00-00
SHEET ON WHICH SHOWN

KEY NOTE IDENTIFIER

TYPICAL
TYP. 1 SIM. SIMILAR
KEY NOTE NUMBER

REVISION IDENTIFIER

00 FREE HAND CLOUD
REVISION SERIES NUMBER

WALL TYPE IDENTIFIER

:9 WALL TYPE

DEMOLITION IDENTIFIER

TYPICAL
TYP. 00 SIM. SIMILAR
KEY NOTE NUMBER

DOOR IDENTIFIER

DOOR NUMBER
:00.1 DOOR MARK
ROOM NUMBER

WINDOW IDENTIFIER

00 WINDOW TYPE

TITLE IDENTIFIER

DETAIL NUMBER
DRAWING TITLE
0 FLOOR PLAN
0 SCALE: 1/4" = 1'-0" SCALE
SHEET ON WHICH SHOWN
LINE1
LINE2
LINE3
LINE4
LINE5
TRUE NORTH
BUILDING NORTH
TRUE NORTH
PLAN NORTH

DETAIL IDENTIFIER

DETAIL NUMBER
DETAIL TITLE
1 DETAIL AT PIER
SCALE: 3" = 1'-0" SCALE

ABBREVIATIONS

A

AB	ANCHOR BOLT
ADDM	ADDENDUM
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECT
AUTO	AUTOMATIC
AVG	AVERAGE

B

BAL	BALANCE
BL	BUILDING LINE
BLDG	BUILDING
BOI	BOTTOM OF STEEL
BRDG	BRIDGING
BRG	BEARING
BTWN	BETWEEN

C

CU FT	CUBIC FEET
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUE
CTR	CENTER

D

DBL	DOUBLE
DEMO	DEMOLISH
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DS	DOWNSPOUT
DWG	DRAWING

E

EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXP BT	EXPANSION BOLT
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FIN FLR	FINISH FLOOR

G

GA	GAGE
GALV	GALVANIZED
GYP BD	GYPSUM BOARD
GYP	GYPSUM

H

HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HVAC	HEATING VENTILATION & AIR CONDITIONING

I

INS	INSULATION
INT	INTERIOR

J

JAN	JANITOR

L

LT	LIGHT
LT WT	LIGHT WEIGHT

M

MATL	MATERIAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANIC(AL)
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODIFY
MT	METAL THRESHOLD
MTL	METAL

N

N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTACT
NTS	NOT TO SCALE

O

OC	ON CENTER
OFD	OVER FLOW DRAIN
OH DR	OVERHEAD DOOR
OPNG	OPENNING
OPH	OPPOSITE HAND

P

PL	PROPERTY LINE
PROJ	PROJECT
PBD	PARTICLE BOARD
PLYWD	PLYWOOD

R

R	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REQD	REQUIRED
REV	REVISION

S

SCHED	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
STRUCT	STRUCTURAL
SUSP	SUSPENDED

T

TEMP	TEMPORARY
TLT	TOILET

U

UNO	UNLESS NOTED OTHERWISE

V

VAR	VARIES
VERT	VERTICAL

W

WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL

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Date: 2/1/2025	Scale: VARIES
Drawn by: Vee	Checked by: MK

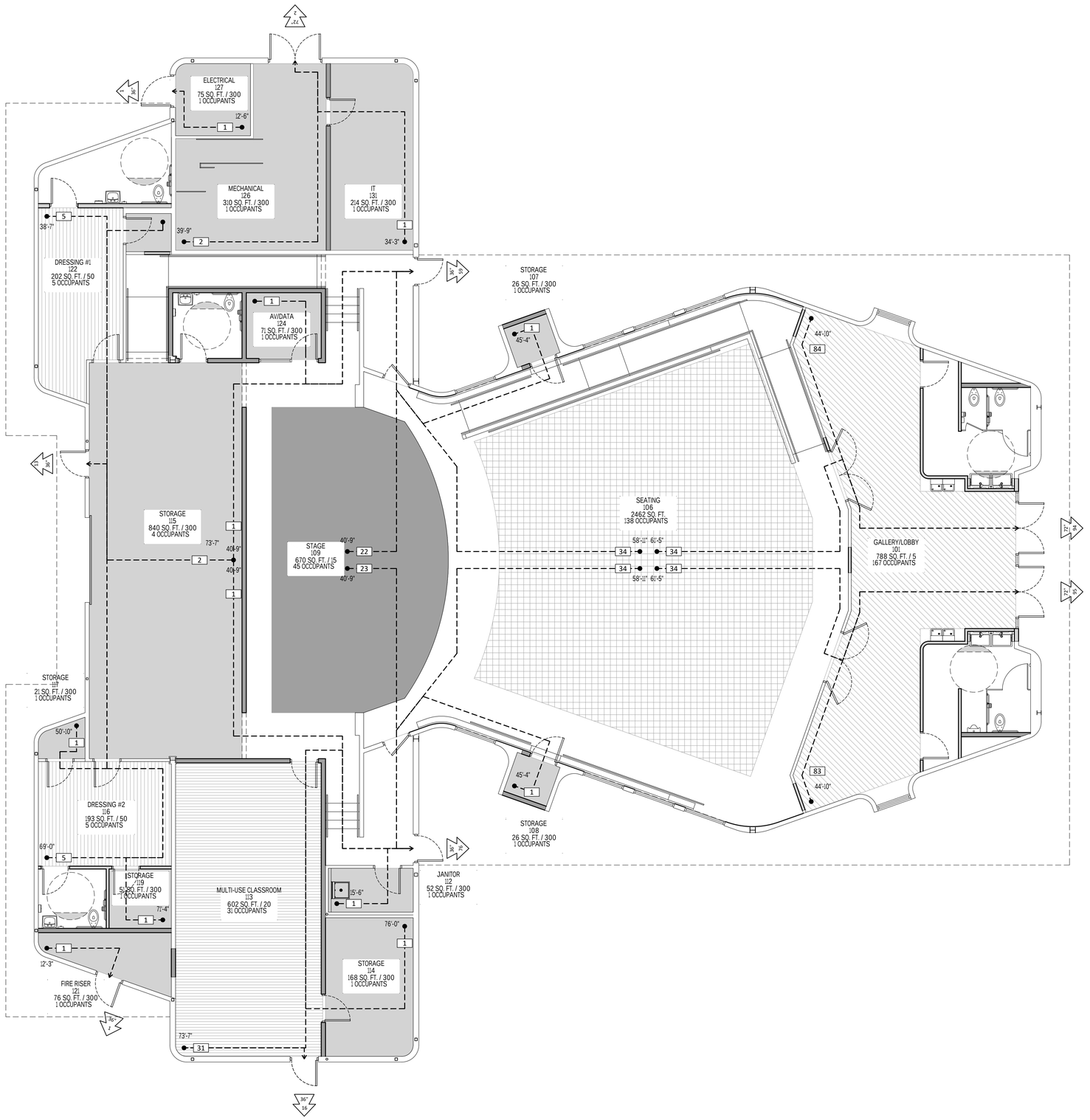
Revisions.

Title: SYMBOLS, LEGENDS ABBREVIATIONS

Project No. NMSU2023-01

G111

NMSU2023-01 G111-G112 Symbol Legend.dwg



CODE REVIEW LEGEND

EXIT PATH OF TRAVEL

EXIT ACCESS TRAVEL DISTANCE FROM THIS POINT — 73'-7"

EXIT DISCHARGE — 000 (OCCUPANT LOAD SERVED), 45" (EXIT WIDTH PROVIDED)

OCCUPANT LOAD — 000

FIRE EXTINGUISHER IN CABINET

FIRE EXTINGUISHER ON BRACKET

OCCUPANCY FUNCTION TYPE

ACCESSORY STORAGE MECHANICAL EQUIPMENT ROOM

ASSEMBLY WITH FIXED SEATS

ASSEMBLY STANDING SPACE

EDUCATIONAL - CLASSROOM AREA

LOCKER ROOMS

STAGES AND PLATFORMS

OCCUPANT LOAD

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	NUMBER OF OCCUPANTS
STORAGE A	300 GROSS	1
STORAGE B	300 GROSS	1
STORAGE C	300 GROSS	1
STORAGE D	300 GROSS	1
STORAGE E	300 GROSS	4
STORAGE F	300 GROSS	TOO SMALL
JANITOR	300 GROSS	1
FIRE RISER	300 GROSS	1
AUDITORIUM	# CHAIRS	136
PLATFORM	15 NET	45
MULTI-USE CLASSROOM	20 NET	31
AV/DATA	300 GROSS	1
DRESSING#1	50 GROSS	5
DRESSING#2	50 GROSS	5
ENTRY AREA	5 NET	(PENDING) 121
MECHANICAL	300 GROSS	1
ELECTRICAL	300 GROSS	1
TOTAL OCCUPANT LOAD		356

MEANS OF EGRESS

EGRESS WIDTH REQUIRED	356 X 0.2 = 71.2"
• OCCUPANT LOAD X 0.2 FOR COMPONENTS OTHER THAN STAIRS.	--
TOTAL EGRESS WIDTH PROVIDED	--

PLUMBING FIXTURE COUNTS

(IBC TABLE 2902.2 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES)

A-3 ASSEMBLY OCCUPANCY	WATER CLOSETS		URINAL	LAVATORIES		DRINKING FOUNTAINS	SERVICE SINKS
	M	F		M	F		
TOTAL REQUIRED	2	3	-	1	1	1	1
TOTAL PROVIDED	3	4	1	3	4	2	1

CODE REVIEW

PROJECT DESCRIPTION:

THE SCOPE OF WORK FOR THE PROJECT CONSISTS OF INTERIOR AND EXTERIOR ALTERATIONS TO THE EXISTING FACILITY.

NO NEW SQUARE FOOTAGE IS ADDED TO THE EXISTING BUILDING.
THE WORK ON THE THIS PROJECT WILL BE AN ALTERATION LEVEL "3" PER THE 2021 IEBC.

APPLICABLE CODES

2021 NEW MEXICO COMMERCIAL BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2021 NEW MEXICO EXISTING BUILDING CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2018 NEW MEXICO ENERGY CONSERVATION CODE
2021 NEW MEXICO PLUMBING CODE
2021 UNIFORM PLUMBING CODE
2021 NEW MEXICO MECHANICAL CODE
2021 UNIFORM MECHANICAL CODE
2020 NEW MEXICO ELECTRICAL CODE
2020 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL FIRE CODE
2017 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS

CHAPTER 3 2021 IBC, OCCUPANCY CLASSIFICATION AND USE

A-3 ASSEMBLY - LECTURE HALL

CHAPTER 5 2021 IEBC, WORK CLASSIFICATION

ALTERATION - LEVEL 3

CHAPTER 5 2021 IBC, WORK GENERAL BUILDING HEIGHTS AND AREAS

BUILDING AREA - IBC TABLE 506.2
ACTUAL: A3 10,600 SQ. FT.
ALLOWABLE AREA: M SPRINKLERED 38,000 SQ. FT.
AREA INCREASE: NOT CONSIDERED.
BUILDING HEIGHT - IBC TABLE 504.3
ACTUAL: VARIES
ALLOWABLE AREA: 75'-0"
BUILDING STORIES - IBC TABLE 504.4
ACTUAL: 1 STORY
ALLOWABLE: 3 STORIES

CHAPTER 6 2021 IBC, TYPES OF CONSTRUCTION

EXISTING CONSTRUCTION TYPE: TYPE II-B

CHAPTER 9 2021 IBC, FIRE PROTECTION AND LIFE SAFETY SYSTEMS

AUTOMATIC SPRINKLER SYSTEM PER SECTION 903.2.1.3

MAXIMUM TRAVEL DISTANCE TO PORTABLE FIRE EXTINGUISHER FOR CLASS 'A' FIRE HAZARDS (2021 IBC TABLE 906.3(1)): 75 FEET

CHAPTER 10 2021 IBC, MEANS OF EGRESS

DESIGN OCCUPANCY LOAD: REFER TO TABLES LOCATED ON THIS SHEET FOR OCCUPANT LOAD CALCULATIONS.

MEANS OF EGRESS SIZING - SECTION IBC 1005
WIDTH:
BUILDING REQUIRED: 71.2" PROVIDED: 216"
AUDITORIUM/ENTRY REQUIRED: 60.2" PROVIDED: 288"

NUMBER OF EXISTS AND EXIT ACCESS DOORWAYS - SECTION IBC 1006
REQUIRED PER STORY - IBC TABLE 1006.3.3 - 2
PROVIDED: 4 PLATFORM AND AUDITORIUM
6 EXISTS FROM TOTAL BUILDING
2 MEANS OF EGRESS FROM MULTI-USE CLASSROOM

MAXIMUM TRAVEL DISTANCE LIMIT TO EXIT FOR OCCUPANCY GROUP 'A3', (IBC 2021 TABLE 1006.3.4(2)): 75 FEET PER PLAN: 30 FEET

MAXIMUM TRAVEL DISTANCE LIMIT TO EXIT FOR OCCUPANCY GROUP 'A3', (IBC 2021 TABLE 1017.2) WITHOUT SPRINKLER SYSTEM: 200 FEET PER PLAN: 99.6 FEET

ALL AREAS COMPLY WITH MAXIMUM TRAVEL DISTANCES. REFER TO EGRESS PLAN ON THIS SHEET FOR TRAVEL DISTANCES.

ACCESSIBILITY - IBC CHAPTER 11

REQUIRED PER 2021 IBC CHAPTER 11

PLUMBING - IBC CHAPTER 29

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES: REFER TO TABLES LOCATED ON SHEET G120 FOR PLUMBING COUNTS.

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Date: 2/1/2025 Scale: VARIES
Drawn by: KP Checked by: MK
Revisions:

Title: CODE REVIEW & EGRESS PLAN

Project No.: NMSU2023-01

G120

NMSU2023-01 G120+G121 Code Review & Egress Plan.dwg

STRUCTURAL NOTES

GENERAL

GN-1 ALL DETAILS ARE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.

GN-2 THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL HOLES AND SLEEVES THROUGH WALLS AND SLABS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS. ALL PLUMBING AND MECHANICAL PENETRATIONS THROUGH WALLS AND SLABS SHALL BE PROPERLY SLEEVED. PENETRATING FOOTINGS, BEAMS, JOISTS, OR COLUMNS IS PROHIBITED. PLUMBING AND CONDUITS SHALL NOT BE INSTALLED BELOW FOOTINGS WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC.

GN-3 THE STRUCTURE AS SHOWN IN THESE DRAWINGS IS STABLE UNDER THE FINAL CONDITION. THE STRUCTURE IS DESIGNED FOR THE IN-SERVICE LOADS ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE STRUCTURAL STABILITY DURING CONSTRUCTION. DESIGNERS OF CONSTRUCTION, SHORING, AND WEARS AND METHODS SHALL BE DETERMINED BY THE CONTRACTOR.

GN-4 NON-LOAD BEARING ELEMENTS SHALL BE CONNECTED TO THE STRUCTURE BY METHODS THAT ALLOW VERTICAL DEFLECTION OF THE STRUCTURE. ALLOWABLE DEFLECTIONS OF THE STRUCTURAL SHALL BE THE MAXIMUM BY EITHER A HALF INCH OR THE STRUCTURAL SPAN DIVIDED BY 360.

GN-5 NOTCHING, CUTTING OR WOOFTING STRUCTURAL ELEMENTS IN THE FIELD IS PROHIBITED.

GN-6 THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

GN-7 THE ATTACHMENT OF ROOF TOP EQUIPMENT TO THE STRUCTURE SHALL BE INSTALLED PER DESIGNS PROVIDED BY THE MANUFACTURE. THE MANUFACTURER SHALL CERTIFY THAT THE ATTACHMENTS HAVE BEEN DESIGN TO WITHSTAND LOADS BASED ON THE DESIGN CRITERIA LISTED BELOW.

DESIGN CRITERIA

DC-1 THE STRUCTURAL DESIGN WAS COMPLETED IN ACCORDANCE WITH THE FOLLOWING CODES:
IBC 2021
ASCE 7-16
ACI 318-14
ACI 530-13/ASCE 5-11/TMS 402-13
AISC 360 – MANUAL OF STEEL CONSTRUCTION 14TH EDITION
AISC 341-10 – SEISMIC DESIGN MANUAL
ANSI/APA WSS-2015 – NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
AND NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2012 EDITION
AWS D1.8 AMERICAN WELDING SOCIETY – STRUCTURAL WELDING CODE – REINFORCING STEEL 2017 EDITION

DC-2 DEAD LOAD ARE CALCULATED IN ACCORDANCE WITH CHAPTER 3 OF THE ASCE 7-16.

DC-3 LIVE LOADS ARE CALCULATED IN ACCORDANCE WITH CHAPTER 4 OF THE ASCE 7-16 AS FOLLOWS:

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
ROOF	20	300
TYPICAL FLOOR	100	2,000
ASSEMBLY AREAS AND THEATERS	- -	- -
STAGES	150	N/A
ROOF (UNOCCUPIED) SEE NOTE 1	20	N/A
STAIRS AND EXITS	100	300
AWNINGS AND CANOPIES	20	N/A

DC-4 WIND PRESSURES SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 26-31 OF THE ASCE 7-16 AS FOLLOWS:

RISK CATEGORY	II
WIND VELOCITY	105 MPH
DIRECTIONAL FACTORS (Kd)	0.85 MWFS 0.85 COMPONENTS
TOPOGRAPHIC FACTOR (Kzt)	1.00
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	±0.18

DC-5 SNOW LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 7 OF THE ASCE 7-16 AS FOLLOWS:

RISK CATEGORY	II
GROUND SNOW (pg)	0 PSF
EXPOSURE FACTOR (Ce)	0.90
THERMAL FACTOR (Ct)	1.0
IMPORTANCE FACTOR	1.00

DC-6 SEISMIC LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 11 AND 12 OF THE ASCE 7-16 AS FOLLOWS:

RISK CATEGORY	II
MAPPED MCE	Ss=0.315 S1=0.103
SPECTRAL RESPONSE COEFFICIENT	SDs=0.273 SD1=0.103
SITE CLASSIFICATION	C
IMPORTANCE FACTOR	1.00
SEISMIC DESIGN CATEGORY	B
ANALYSIS PROCEDURE	EQUIVALENT FORCE METHOD

SHOP DRAWINGS

SD-1 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION AS REQUIRED BY THE SPECIFICATIONS AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING SUBMITTALS:
STRUCTURAL FILL AND EARTHWORK
STRUCTURAL STEEL
REINFORCING STEEL
CONCRETE MIX DESIGNS
METAL DECK
STEEL JOISTS & JOIST GIRDERS
WELDING PROCEDURES AND WELDING CERTIFICATIONS
LIGHT GAGE FRAMING PRODUCT DATA
PRODUCT DATA FOR CONCRETE ADDITIVES
PRODUCT DATA FOR POWER ACTUATED FASTENERS
PRODUCT DATA FOR CONCRETE EXPANSION ANCHORS

SD-2 REVIEWS BY THE ARCHITECT/ENGINEER SHALL BE FOR GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS ONLY. MODIFICATIONS, COMMENTS AND INFORMATION PROVIDED BY THE ARCHITECT/ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

SD-3 THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DIMENSIONS AT THE JOB SITE AND COORDINATING THEM WITH THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER.

SD-4 THE FABRICATION AND CONSTRUCTION PROCESS, MEANS AND METHODS OF CONSTRUCTION, AND COORDINATING ALL TRADES FOR PERFORMING THE WORK IN A SAFE AND SATISFACTORY METHOD SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

SD-5 REPRODUCTION OF CONSTRUCTION DOCUMENTS AS PART OF THE SHOP DRAWINGS IS PROHIBITED. THE SHOP DRAWINGS SHALL BE INDEPENDENTLY PRODUCED DRAWINGS BASED ON THE CONSTRUCTION DOCUMENTS. USE OF ELECTRONIC FILES PRODUCED BY STUBBS ENGINEERING, INC. TO GENERATE SHOP DRAWINGS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC. IF ELECTRONIC DRAWINGS PRODUCED BY THE STUBBS ENGINEERING, INC. ARE USED IN THE PRODUCTION OF THE SHOP DRAWINGS, ANY COMPANY LOGOS, TITLE BLOCKS AND SEALS SHALL BE REMOVED FROM THE SUBMITTAL.

SD-6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS DUE TO REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS.

SD-7 SHOP DRAWINGS SUBMITTED WITHOUT PRIOR REVIEW BY THE GENERAL CONTRACTOR SHALL NOT BE REVIEWED BY THE ENGINEER.

SD-8 REQUESTS FOR SUBSTITUTION SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS. SUBSTITUTIONS SHALL NOT BE IMPLEMENTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.

FOUNDATION

1. THE SITE SHALL BE PREPARED TO PROVIDE A MINIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF. ALL EARTHWORK SHALL BE INSPECTED BY A SOILS ENGINEER TO ENSURE THE ALLOWABLE BEARING PRESSURE IS MET, THERE IS A LOW SETTLEMENT POTENTIAL AND THE ABSENCE OF EXPANSIVE MATERIAL.

2. THE SITE SHALL BE OVEREXCAVATED TO ALLOW FOR A MINIMUM OF 1 FOOT OF STRUCTURAL SELECT FILL BELOW ALL FOOTINGS AND A MINIMUM OF 1 FOOT OF STRUCTURAL SELECT FILL BELOW ALL SLABS ON GRADE. OVEREXCAVATION SHALL EXTEND A MINIMUM OF 1 FEET BEYOND THE EXTENT OF THE BUILDING PAD.

3. NATIVE SOILS BELOW STRUCTURAL SELECT FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES. THE NATIVE SOILS SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95% PER THE MODIFIED PROCTOR (ASTM D1557) AT A MOISTURE CONTENT OF +/- 2% OPTIMUM. WEAK OR COMPRESSIBLE NATIVE SOILS IDENTIFIED DURING EARTHWORK SHALL BE REMOVED AND REPLACED WITH STRUCTURAL SELECT FILL PER THE REQUIREMENTS FOR STRUCTURAL FILL.

4. STRUCTURAL SELECT FILL SHALL BE FREE OF ROCKS, ROOTS, VEGETABLE MATTER, CLAY CLUMPS OR ROCKS GREATER THAN 3 INCHES IN ANY DIMENSION. STRUCTURAL SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS:
NO EXPANSIVE MATERIAL
MAXIMUM LIQUID LIMIT (ASTM D4318): 30
MAXIMUM PLASTIC LIMIT (ASTM D4318): 10
GRADATION (ASTM D422)

SIEVE SIZE	PERCENT PASSING
3-INCH	100%
NO. 4	60-100%
NO. 200	15-45%

5. REMOVE ALL BRUSH, RUBBISH, AND VEGETATION MATERIAL FROM THE BUILDING PAD PRIOR TO EXCAVATION.

6. PLACE ALL STRUCTURAL SELECT FILL IN 8 INCH MAXIMUM LOOSE LIFTS. MOISTEN TO A MOISTURE CONTENT OF +/- 2% OPTIMUM MOISTURE CONTENT AND COMPACT TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY.

7. ALL EARTHWORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER TO ENSURE ALLOWABLE BEARING PRESSURE IS MET, THERE IS A LOW SETTLEMENT POTENTIAL AND THE ABSENCE OF EXPANSIVE MATERIAL. TESTING SHALL BE PERFORMED AT THE FOLLOWING MINIMUM RATES. THE GEOTECHNICAL ENGINEER MAY DETERMINE MORE STRINGENT TESTING IF REQUIRED:
- ONE MOISTURE-DENSITY CURVE, IN ACCORDANCE WITH ASTM D1557, FOR EACH TYPE OF STRUCTURAL SELECT FILL OR EACH SOURCE OF STRUCTURAL FILL USED FOR THE PROJECT.
- ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D1556, D2167 OR D2922, FOR EACH 2,500 SQUARE FEET OF COMPACTED NATIVE SUBGRADE PRIOR TO PLACING STRUCTURAL SELECT FILL OR FLOOR SLAB. PROVIDE A MINIMUM OF THREE TESTS.
- EACH HORIZONTAL LIFT OF STRUCTURAL SELECT FILL SHALL BE TESTED WITH ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D1556, D2167 OR D2922, PER EACH 2,500 SQUARE FEET AND 100 FEET OF CONTINUOUS FOOTING WITH A MINIMUM OF THREE TESTS.

8. VAPOR BARRIERS SHALL BE PLACED DIRECTLY BELOW ALL SLABS ON GRADE BETWEEN THE SLAB AND THE SUBGRADE. THE VAPOR BARRIER SHALL HAVE A MINIMUM THICKNESS OF 10 MILS AND SHALL MEET THE REQUIREMENTS OF ASTM E1745 WITH A WATER VAPOR PERMEANCE LESS THAN 0.030 PERMS. CONTRACTOR SHALL LAP AND SEAL ALL EDGES. PUNCTURES AND PENETRATIONS SHALL BE SEALED AND REPAIR PER THE MANUFACTURER'S RECOMMENDATIONS.

CONCRETE

CN-1 ALL CONCRETE SHALL BE PROPORTIONED, CONSTRUCTED AND CONFORM TO THE SPECIFICATION OF ACI 301-16. CONCRETE DESIGN SHALL CONFORM TO ACI 318-14.

CN-2 PORTLAND CEMENT SHALL CONFORMING TO ASTM C-150, TYPE I OR II. CONCRETE IN CONTACT WITH SOIL SHALL BE TYPE II CEMENT.

CN-3 FLY ASH SHALL NOT BE USED IN ARCHITECTURALLY EXPOSED CONCRETE, TILTWALLS OR SLABS ON GRADE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO A MAXIMUM OF 20% OF THE CEMENT CONTENT. THE MIX DESIGN SHALL INDICATE THAT THE FLY ASH SHALL NOT ADVERSELY EFFECT THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WIT THE CONCRETE.

CN-4 CONCRETE SHALL BE PROPORTIONED TO THE FOLLOWING REQUIREMENTS:

LOCATION	f'c AT 28 DAYS	MAX SIZE AGGREGATE	SLUMP	AIR CONTENT	CONCRETE TYPE	MAXIMUM WATER TO CEMENT RATIO
FOOTINGS	3,000 PSI	1 – INCH	3 – 5 INCH	0 – 5%	NORMAL WEIGHT	0.55
STEM WALLS	3,000 PSI	3/4 – INCH	3 – 5 INCH	0 – 5%	NORMAL WEIGHT	0.55
RETAINING WALLS	4,000 PSI	3/4 – INCH	3 – 5 INCH	4 – 7%	NORMAL WEIGHT	0.55
SLAB ON GRADE	4,000 PSI	3/4 – INCH	4 – 6 INCH	NONE	NORMAL WEIGHT	0.55

CONCRETE SHALL BE PROPORTIONED TO EXCEED 75% OF THE 28-DAY STRENGTH IN 7 DAYS.

CN-5 CONCRETE REINFORCING STEEL AND EMBEDS SHALL HAVE THE FOLLOWING PROPERTIES:

TYPE	DESIGNATION ON PLAN	ASTM	YIELD STRENGTH	NOTES
REBAR	#	A615	60 KSI	NOT WELDABLE
WELDED WIRE REINF.	WWF	A185	60 KSI	FLAT SHEETS ONLY
DEFORMED BAR ANCHORS	DBA	A496	60 KSI	WELDABLE
HEADED ANCHOR STUDS	HAS	A108, Gr 10	70 KSI	

CN-6 UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FOR THE FACE OF CONCRETE FORMS TO THE REINFORCING STEEL SHALL BE:

CONDITION	CLEAR DISTANCE	NOTES
CONCRETE CAST AGAINST EARTH OR WATER	3 – INCH	EXCLUDES SLABS ON GRADE
CONCRETE CAST TO FORMS EXPOSED TO EARTH, WATER OR WEATHER	2 – INCH	NO. 6 BAR AND LARGER
	1 1/2 – INCH	NO. 5 BAR AND SMALLER
CONCRETE CAST TO FORMS NOT EXPOSED TO EARTH, WATER OR WEATHER	1 – INCH	SLABS AND JOISTS
	1 1/2 – INCH	BEAMS, COLUMNS, & WALLS
SLABS ON GRADE	2 – INCH	FROM BOTTOM SURFACE
	1 1/2 – INCH	FROM TROWLED SURFACE
	3/4 – INCH	FROM SCREED SURFACE

CN-7 REINFORCING DETAILING AND PLACEMENT SHALL BE IN COMPLIANCE WITH ACI 315-08.

CN-8 ALL REBAR SHALL BE SPLICED IN ACCORDANCE WITH DETAIL 2 / S101 AND STANDARD HOOK SHALL BE PROVIDED PER DETAIL 1 / S101 . MESH REINFORCING SHALL BE SPLICED IN ACCORDANCE WITH DETAIL 3 / S101 .

CN-9 ALL REBAR AND REINFORCING MESH SHALL BE CHAIRED TO PROVIDE REQUIRED COVER AND SUPPORT THE REINFORCING ADEQUATELY TO PREVENT ACCIDENTAL DISPLACEMENT. CHAIRS FOR SLABS ON GRADE SHALL BE CONCRETE OR PLASTIC DESIGNED FOR USE ON SOIL. CHAIRS FOR SLABS ON METAL DECK SHALL BE SPECIFICALLY DESIGNED FOR USE ON METAL DECK.

CN-10 SIZE AND LOCATION OF EQUIPMENT SUPPORTS AND EMBEDS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER AND SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

CN-11 ALL CONCRETE SHALL BE CONSOLIDATED BY VIBRATORY MEANS. CONSOLIDATIONS SHALL BE OBSERVED BY INSPECTION AGENCY.

CN-12 CONCRETE DIMENSIONS SHOWN ON DRAWINGS ARE ACTUAL DIMENSIONS NOT NOMINAL DIMENSIONS.

CN-13 ALL CONTINUOUS REINFORCING IN FOOTINGS AND WALLS SHALL EITHER BE CONTINUOUS AROUND CORNERS OR HAVE BENT CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS.

CN-14 FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP OFF TYPE. NO EXPOSED METAL SHALL BE ALLOWED WITHIN ONE INCH OF THE SURFACE. ALL ACCESSES SHALL BE POINTED WITH MORTAR.

CN-15 ALL DOWELS, EMBEDS AND REINFORCING BARS SHALL BE SECURELY TIED PRIOR TO PLACING CONCRETE. INSTALLATION OF ITEMS INTO WET CONCRETE WILL NOT BE ALLOWED.

CN-16 ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4" CHAMFER.

CN-17 CONCRETE SHALL NOT BE DROPPED VERTICALLY MORE THAN 5 FEET WITHOUT THE USE OF A TREMIE.

STRUCTURAL STEEL

SS-1 THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "STEEL CONSTRUCTION MANUAL" 15TH EDITION.

SS-2 CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICESECTION 3.1.2, OPTION (2). THE STEEL DETAILER SHALL SELECT AND COMPLETE CONNECTIONS BASED ON INFORMATION IN THE CONSTRUCTION DOCUMENTS. THE FABRICATOR IS NOT REQUIRED TO HIRE A PROFESSIONAL ENGINEER FOR CONNECTION DESIGN.

SS-3 ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

	ASTM	YIELD STRENGTH
WIDE FLANGE AND WT SECTIONS	A992	50 KSI
CHANNELS AND ANGLES	A36	36 KSI
STRUCTURAL PLATE AND BARS	A36*	36 KSI
STEEL PIPE	A53 GR B, REINFORCED JOINTS	35 KSI
SQUARE & RECTANGULAR TUBE	A500 GR B	46 KSI.
ROUND TUBE	A500 GR B	42 KSI

* UNLESS NOTED OTHERWISE.

SS-4 ALL HIGH STRENGTH BOLTS, WASHERS AND NUTS SHALL MEET THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND THE FOLLOWING:

AS SHOWN ON PLANS	TENSION	NOTES
A325N	SNUG TIGHT	THREADS INCLUDED IN PLANE
A325X	SNUG TIGHT	THREADS EXCLUDED IN PLANE
A325SC	PRE-TENSION	SLIP CRITICAL WITH CLASS A FAYING SURFACE
A325PT	PRE-TENSION	THREADS INCLUDED IN PLANE
ANCHOR BOLT	SNUG TIGHT	ASTM F1554 GR 36

ASTM F1852, TENSION CONTROL BOLTS CAN BE SUBSTITUTED FOR A325 BOLTS AT CONTRACTOR'S DIRECTION

SS-5 ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODE AWS D1.1, LATEST EDITION.

SS-6 WELDING SHALL BE PERFORMED WITH E70XX LOW HYDROGEN ELECTRODES USING EITHER SMAW, FCAW, OOR GMAW PROCESSES IN ACCORDANCE WITH AWS D1.1.

SS-7 ALL GROUT BELOW BASE PLATES SHALL BE NON-SHRINK, NON-METALIC WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.

SS-8 ANCHOR BOLTS, ANCHOR BOLT NUTS AND PLATE WASHERS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 14-2 OF THE AISC MANUAL OF STEEL CONSTRUCTION.

SS-9 ALL WELDS NOT SPECIFIED SHALL BE A MINIMUM 1/4" FILLET WELDS OR MEET THE SPECIFICATIONS OF TABLE J2.4 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR MINIMUM SIZE FILLET WELDS, WHICHEVER IS GREATER.

SS-10 WELD ACCESS HOLE CONFIGURATIONS FOR MOMENT CONNECTIONS SHALL COMPLY WITH TABLE 1-1 AND TABLE 1-2 OF AISC 341-10 SEISMIC DESIGN MANUAL.

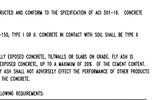
SS-11 ALL PERIMETER ANGLES AND FOUR STOPS SHALL BE SPLICED PER DETAIL 6 / WOD S500

SS-12 ALL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE GALVANIZED PER ASTM A123 TO G-60 UNLESS NOTED OTHERWISE.

LIGHT GAGE FRAMING (18ga AND HEAVIER)

LG-1 STRUCTURAL LIGHT GAGE FRAMING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AISI "SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS", 7TH EDITION

LG-2 LIGHT GAGE FRAMING MEMBERS SHALL COMPLY WITH "THE STEEL STUD MANUFACTURERS ASSOCIATION" DESIGNATION CALL OUTS.



LG-3 EXTERIOR AND LOAD BEARING LIGHT GAGE STUD WALLS SHALL HAVE BRIDGING AT A MAXIMUM SPACING OF 4'-0" O.C. BRIDGING SHALL BE PER MANUFACTURE'S RECOMMENDATIONS & MEET THE REQUIREMENTS OF DETAIL 3 / WOD S500

LG-4 SECURE ALL STUDS TO TOP AND BOTTOM TRACKS WITH A MINIMUM OF 1-#40. 8 SCREW EACH SIDE.

LG-5 ALL WELDING OF MATERIAL LESS THAN 5/16" IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED BY AWS D1.3.

LG-6 SPLICING STRUCTURAL LIGHT GAGE MEMBERS SHALL NOT BE ALLOWED.

LG-7 LIGHT GAGE STRAPS SHALL MATCH THE WIDTH AND THICKNESS SHOWN ON PLANS. STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 50 KSI. STRAPS SHALL BE GALVANIZED WITH A MINIMUM G60 FINISH.

LG-8 NON LOAD BEARING EXTERIOR STUDS SHALL BE ATTACHED TO PERIMETER ANGLE WITH A SLIDE CLIP PER DETAIL 3 / WOD S500

LG-9 ALL LIGHT GAGE STUDS AND TRACKS SHALL HAVE A G60 FINISH

POST INSTALLED ANCHORS

PA-1 ALL CONCRETE EXPANSION ANCHORS TO BE USED SHALL HAVE AN ICC-ES REPORT AND MEET THE REQUIREMENTS OF ACI 318 APPENDIX D FOR CRACKED & UNCRACKED CONCRETE. ANCHORS SHALL BE APPROVED FOR STATIC LOADS AND CRACKED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURERS RECOMMENDATIONS. CONCRETE ANCHORS SHALL BE GALVANIZED CARBON STEEL. CONCRETE EXPANSION ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE.

DESIGNATION ON PLAN	MINIMUM EMBEDMENT	ULTIMATE NON-SEISMIC TENSILE LOAD	ULTIMATE NON-SEISMIC SHEAR LOAD
3/8"Ø CSA	2"	2,070 LBS	3,005 LBS
1/2"Ø CSA	3-1/4"	4,554 LBS	12,450 LBS
5/8"Ø CSA	4-1/4"	8,780 LBS	22,040 LBS

ALL ULTIMATE (LIFE) LOADS ARE PROVIDED FOR CONCRETE WITH f'c = 4Kpsi, UNCRACKED & FOR NON SEISMIC LOADS

QUALITY ASSURANCE

STRUCTURAL INSPECTION AND TESTING

1. STRUCTURAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 IBC.

2. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO SCHEDULE AND COORDINATE THE PERFORMANCE OF INSPECTIONS AND TESTING IN ACCORDANCE WITH THE SPECIFICATIONS, BUILDING CODE AND THE SPECIAL INSPECTION SCHEDULES.

3. SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY A QUALIFIED PERSON OR AGENCY THAT IS APPROVED BY THE BUILDING OFFICIAL. INSPECTIONS PROVIDED BY LOCAL BUILDING OFFICIALS SHALL NOT BE CONSIDERED A SUBSTITUTION FOR SPECIAL INSPECTIONS OR TESTING REQUIREMENTS.

4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
A. THE SPECIAL INSPECTOR SHALL INSPECT THE WORK AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULES TO ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
B. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL IMPLEMENT A TIMELY PLAN TO CORRECT ANY DISCREPANCIES. IN THE EVENT THE DISCREPANCIES ARE NOT CORRECTED, THE ENGINEER, ARCHITECT AND BUILDING OFFICIAL SHALL BE NOTIFIED.
C. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER AND THE BUILDING OFFICIAL IN A TIMELY MANNER.

REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	1705.6
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	1705.6
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS IN ACCORDANCE WITH PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		1705.6
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	1705.6

REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODICALLY DURING TASK LISTED	REFERENCE FOR CRITERIA: IBC SECTION	REFERENCE FOR CRITERIA: REFERENCE STANDARD
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT		X		ACI 318:Ch. 20, 25.2,25.3, 26.6.1-26.6.3
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		AWS D1.4 ACI 318: Ch. 26.6.4
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X		
c. INSPECT ALL OTHER WELDS	X			
3. INSPECT ANCHORS CAST IN CONCRETE				ACI 318: 17.8.2
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X			ACI 318: CH 17.8.2.4
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		X		ACI 318: CH 17.8.2
5. VERIFY USE OF REQUIRED DESIGN MIX		X	1904.1, 1904.2	ACI318: CH.19, 26.4.3, 26.4.4
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		1908.10	ASTM C172 ASTM C31 ACI 318: CH. 26.5, 26.12
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X			ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: CH. 26.5.3-26.5.5
9. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES	X			ACI 318: CH. 26.10
b. GROUTING OF BONDED PRESTRESSING TENDONS	X			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X		ACI 318:CH. 26.9
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (SEE DE HOE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:		X		ACI 318: CH. 26.13.5
a. INSTALLATION OF THE EMBEDDED PARTS	X			ACI 550.5
b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X			
c. COMPLETION OF CONNECTIONS IN THE FIELD	X			
12. INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5		X		ACI 318: CH. 26.13.5
13. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X		ACI 318: CH. 26.11.2
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: CH. 26.11.1.2(b)

FOR SI: 1 INCH = 25.4mm
a. WHERE APPLICABLE, SEE ALSO SECTION 1705.13
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

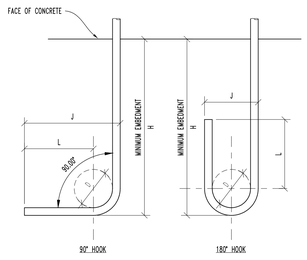
SPECIAL VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

| VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION: CONTINUOUS | FREQUENCY OF INSPECTION: PERIODIC | REFERENCE FOR CRITERIA: I

REBAR STANDARD HOOKS

REBAR SIZE	D (IN.)	90° HOOK				180° HOOK			
		J (IN.)	L (IN.)	H (IN.)		J (IN.)	L (IN.)	H (IN.)	
#3	2¼	6	4½	f'c' = 3000PSI	9	3	1½	f'c' = 3000PSI	6
				f'c' = 4000PSI	7			f'c' = 4000PSI	6
#4	3	8	6	f'c' = 3000PSI	11	4	2	f'c' = 3000PSI	7
				f'c' = 4000PSI	10			f'c' = 4000PSI	7
#5	3¾	10	7½	f'c' = 3000PSI	14	5	2½	f'c' = 3000PSI	7
				f'c' = 4000PSI	12			f'c' = 4000PSI	7
#6	4½	12	9	f'c' = 3000PSI	17	6	3	f'c' = 3000PSI	8
				f'c' = 4000PSI	15			f'c' = 4000PSI	8
#7	5¼	14	10½	f'c' = 3000PSI	19	7	3½	f'c' = 3000PSI	9
				f'c' = 4000PSI	17			f'c' = 4000PSI	9
#8	6	16	12	f'c' = 3000PSI	22	8	4	f'c' = 3000PSI	10
				f'c' = 4000PSI	19			f'c' = 4000PSI	10
#9	9½	19	13½	f'c' = 3000PSI	25	11¾	4½	f'c' = 3000PSI	12
				f'c' = 4000PSI	22			f'c' = 4000PSI	12
#10	10¾	22	15¼	f'c' = 3000PSI	28	13¼	5¼	f'c' = 3000PSI	14
				f'c' = 4000PSI	24			f'c' = 4000PSI	14

NOTES:
1. THE HOOK DIMENSIONS GIVEN SHALL BE USED FOR BEAMS, JOISTS, COLUMNS, WALLS, SLABS AND FOOTINGS.
2. HOOKS SHALL BE ROTATED TO FIT IN SPACE AND MAINTAIN ADEQUATE COVER. NO NOT CUT HOOK WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.



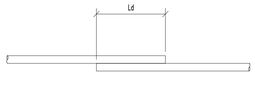
1 REBAR STANDARD HOOKS

SCALE: N.T.S.

CONCRETE REINFORCING SPLICE SCHEDULE

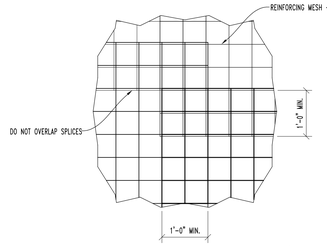
f'c' (PSI)	SPLICE TYPE	BAR SIZE							
		#3	#4	#5	#6	#7	#8	#9	#10
3,000	TOP BARS	28	37	47	56	81	93	105	118
	OTHER BARS	22	29	36	43	63	72	81	91
4,000	TOP BARS	24	32	40	48	70	80	91	102
	OTHER BARS	19	25	31	37	54	62	70	79
5,000	TOP BARS	22	29	36	43	63	72	81	91
	OTHER BARS	17	22	28	33	49	55	63	70
6,000	TOP BARS	20	26	33	40	58	66	74	83
	OTHER BARS	15	20	25	31	44	51	57	64

NOTES:
1. ALL REBAR SPLICE LENGTHS (Ld) PROVIDED ARE IN INCHES.
2. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
3. THE SPLICE LENGTHS GIVEN SHALL BE USED FOR BEAMS, JOISTS, COLUMNS WALLS, SLABS AND FOOTINGS.
4. WHEN THE CLEAR SPACING BETWEEN BARS IS LESS THAN 2 BAR DIAMETERS AND/OR THE CLEAR COVER IS LESS THAN 1 BAR DIAMETER, MULTIPLY THE SPLICE LENGTH IN THE TABLE BY 1.50.
5. WHEN SPLICING BARS OF DIFFERENT SIZE, USE THE SPLICE LENGTH OF THE LARGER BAR.



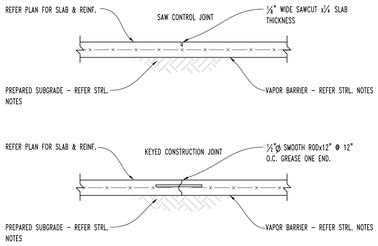
2 CONCRETE REINFORCING SPLICE SCHEDULE

SCALE: N.T.S.



3 TYPICAL REINFORCING MESH SPLICE

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



4 TYPICAL SLAB CONTROL JOINT

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

5 TYPICAL SLAB REINFORCEMENT @ OPENING

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

6 TYPICAL FOOTING STEP

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

7 TYPICAL FOOTING CONSTRUCTION JOINTS

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

8 TYPICAL DETAIL AT TURN DOWN PENETRATION

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

9 TYPICAL CONCRETE REINFORCING BAR DETAILS

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

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SEI JOB NO.: A03-049

ROHOVEC THEATER BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS
FOR:
NEW MEXICO STATE UNIVERISTY
LAS CRUCES, NEW MEXICO

Date: 2025-02-11 | Scale: 3/4" = 1'-0"
Drawn by: Author | Checked by: Checker
Revisions:
1 XX/XX/XX REVISION X
Title: STRUCTURAL DETAILS
Project No. NMSU2023-01

S101

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PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

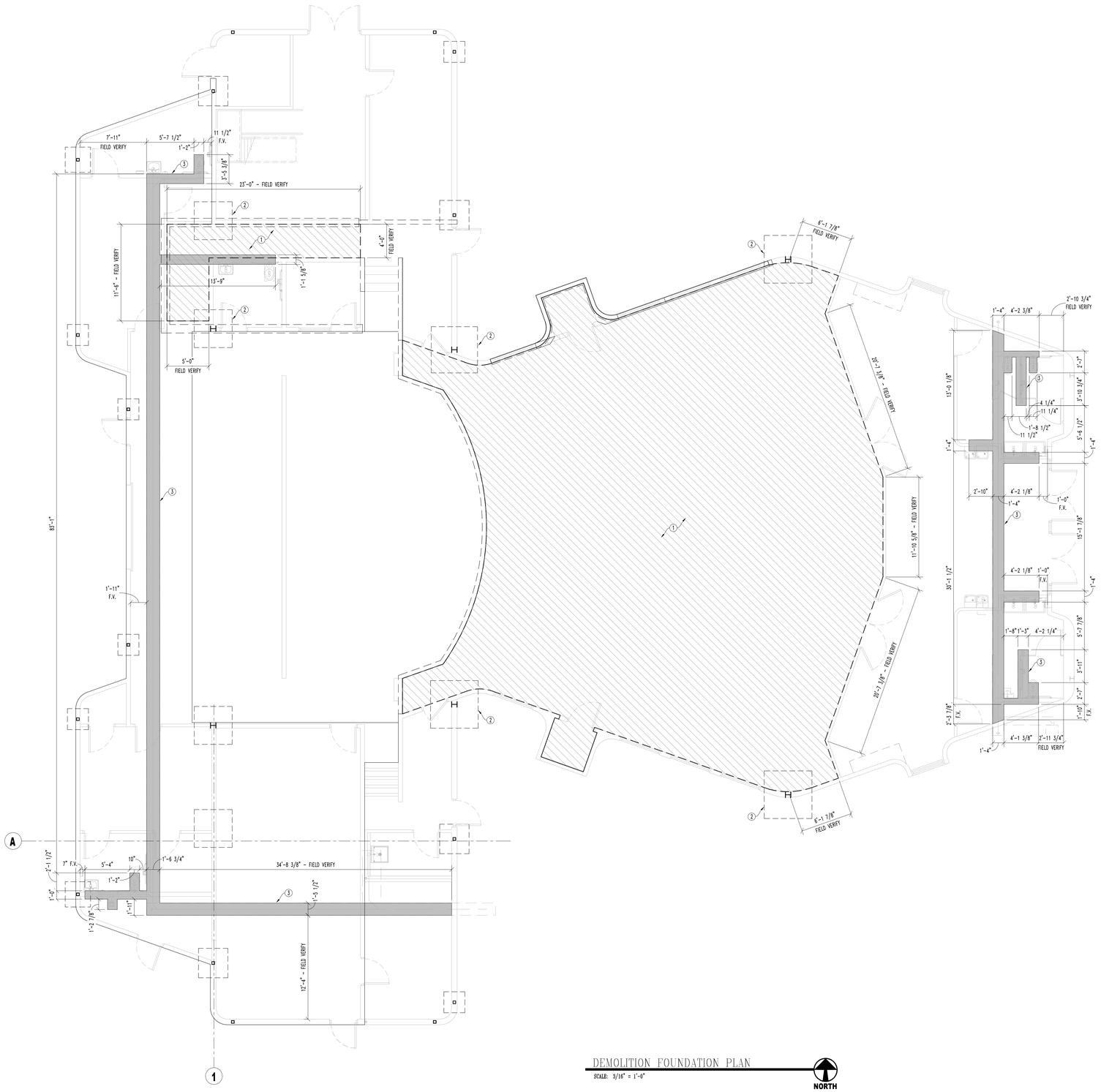
EXISTING CONSTRUCTION SHOWN IS PER AVAILABLE INFORMATION.
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.

INDICATES SLAB TO BE DEMOLISHED.

INDICATES SAWCUT.

KEY NOTES

1. EXISTING SLAB TO BE DEMOLISHED.
2. FOOTING TO REMAIN IN PLACE. FIELD VERIFY EXISTING FOOTING ELEVATION TO ENSURE FOOTING IS UNDER NEW SLAB.
3. SAWCUT EXISTING SLAB - REFER DETAIL 16/S400. COORDINATE WITH PLUMBING FOR EXACT LOCATIONS.



DEMOLITION FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

NORTH

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Title: DEMOLITION PLAN

Project No. NMSU2023-01

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CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 4 / S101 .

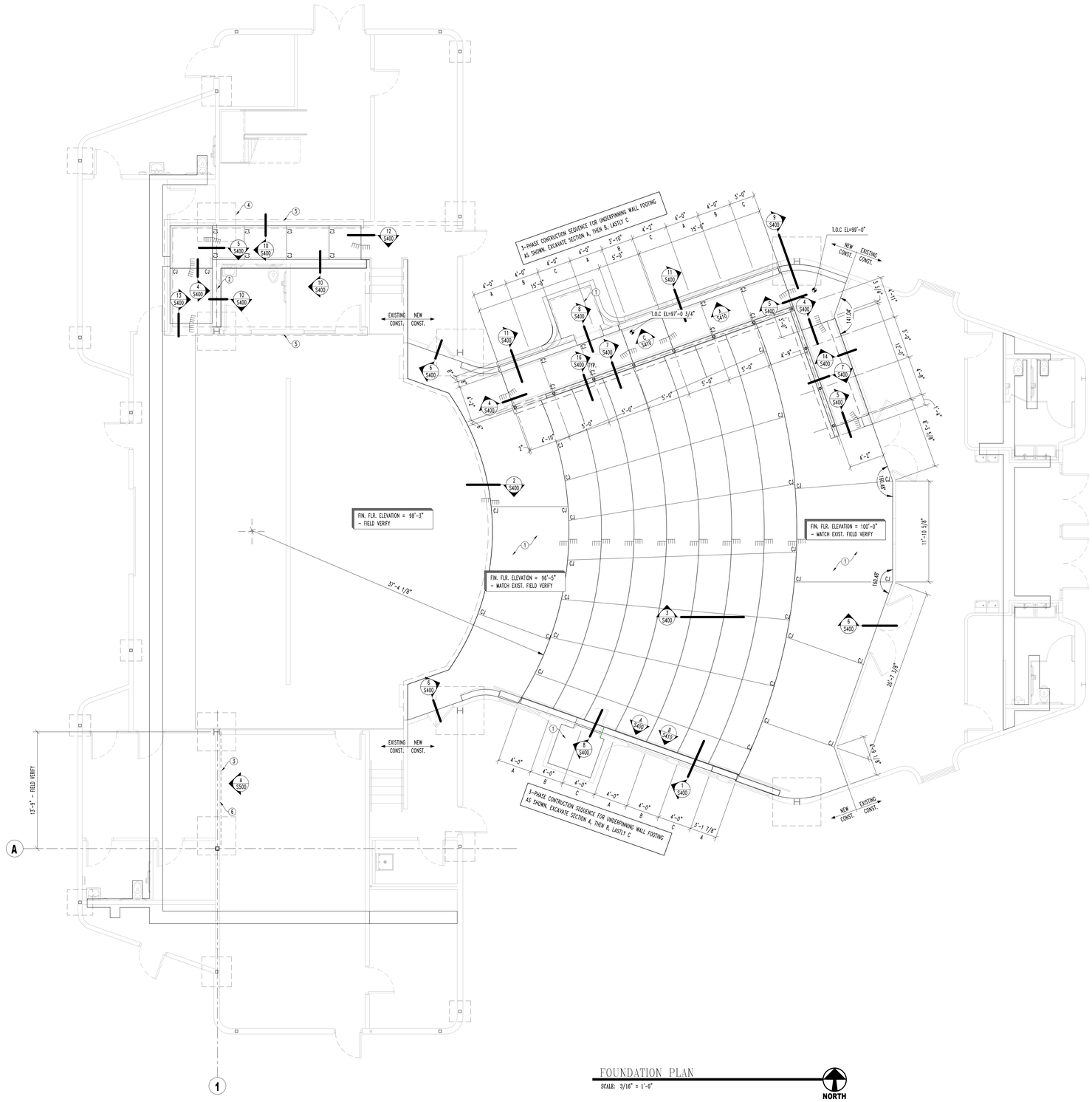
EXISTING CONSTRUCTION SHOWN IS PER AVAILABLE INFORMATION.
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.

FTG. STEP INDICATES FOOTING STEP. REFERENCE DETAIL 6 / S101 .

FIELD VERIFY ALL EXISTING BOTTOM OF FOOTING DEPTHS.

KEY NOTES

1. 4" CONCRETE SLAB WITH WWF6x6-W1.4xW1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES
2. EXISTING STRAP TO BE REMOVED.
3. METAL STRAP - REFER ELEVATION. FINAL CONDITION TO PROVIDE CONCENTRIC X-BRACE AT THIS LOCATION.
4. EXISTING FOOTING TO BE PARTIALLY DEMOLISHED AND ABANDONED IN PLACE TO MAKE WAY FOR NEW RAMP.
5. REMOVE EXISTING MEZZANINEE WALLS AND REPLACE WITH FULL HEIGHT 600S162-43 (18ga) STUDS @ 16" O.C.
6. REMOVE AND REPLACE DRYWALL AS NECESSARY FOR STUD AND BRACE INSTALLATION.



FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

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Title: FOUNDATION PLAN

Project No: NMSU2023-01

S201

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PLAN NOTES

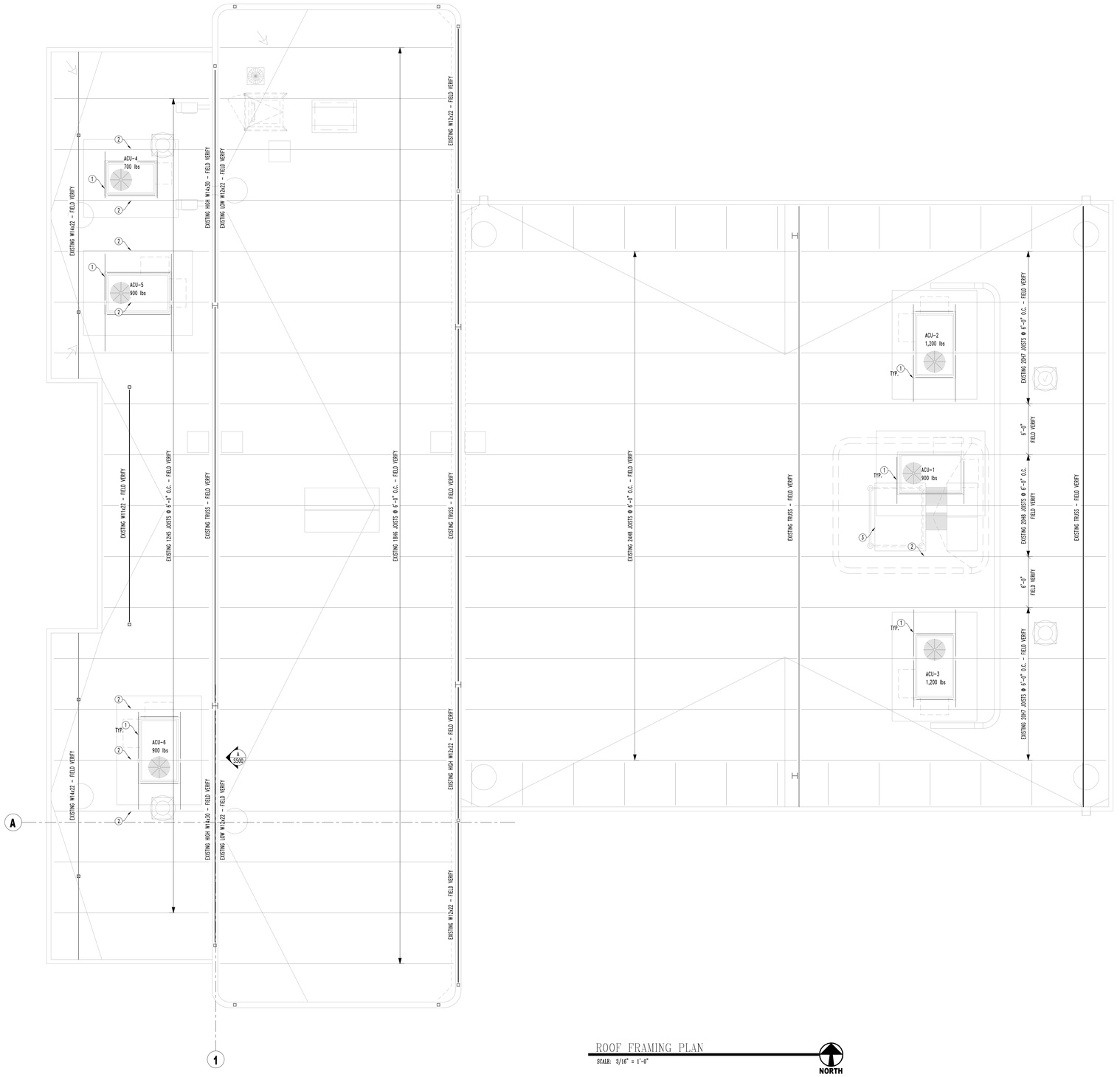
ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.

REFERENCE DETAIL 2 / S500 FOR TYPICAL ROOF FRAME DETAIL.

EXISTING CONSTRUCTION SHOWN IS PER AVAILABLE INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.

KEY NOTES

1. ROOF TOP UNIT FRAME - REFERENCE DETAIL 2/S500.
2. JOIST REINFORCING. REFER DETAIL 1/S500.
3. EXISTING 8'x6'x4" CONCRETE SLAB TO BE REMOVED PRIOR TO INSTALLING NEW UNIT. FIELD VERIFY



ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

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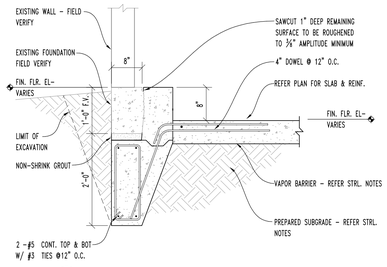
1	XX/XX/XX	REVISION X

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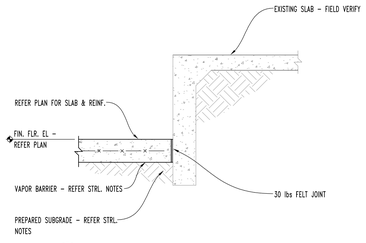
Project No. NMSU2023-01

S300

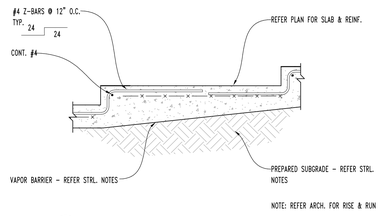
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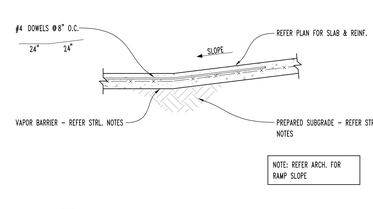
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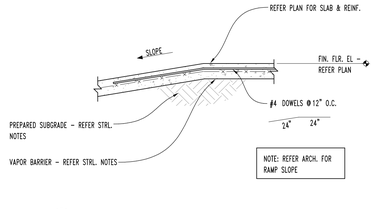
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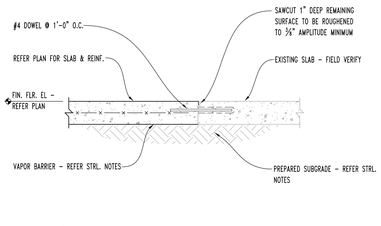
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4 SCALE: 3/4" = 1'–0"



5 SCALE: 3/4" = 1'–0"



6 SCALE: 3/4" = 1'–0"

7 SCALE: 3/4" = 1'–0"

8 SCALE: 3/4" = 1'–0"

9 SCALE: 3/4" = 1'–0"

10 SCALE: 3/4" = 1'–0"

11 SCALE: 3/4" = 1'–0"

12 SCALE: 3/4" = 1'–0"

13 SCALE: 3/4" = 1'–0"

14 SCALE: 3/4" = 1'–0"

15 SCALE: 3/4" = 1'–0"

16 SCALE: 3/4" = 1'–0"

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FOR
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LAS CRUCES, NEW MEXICO

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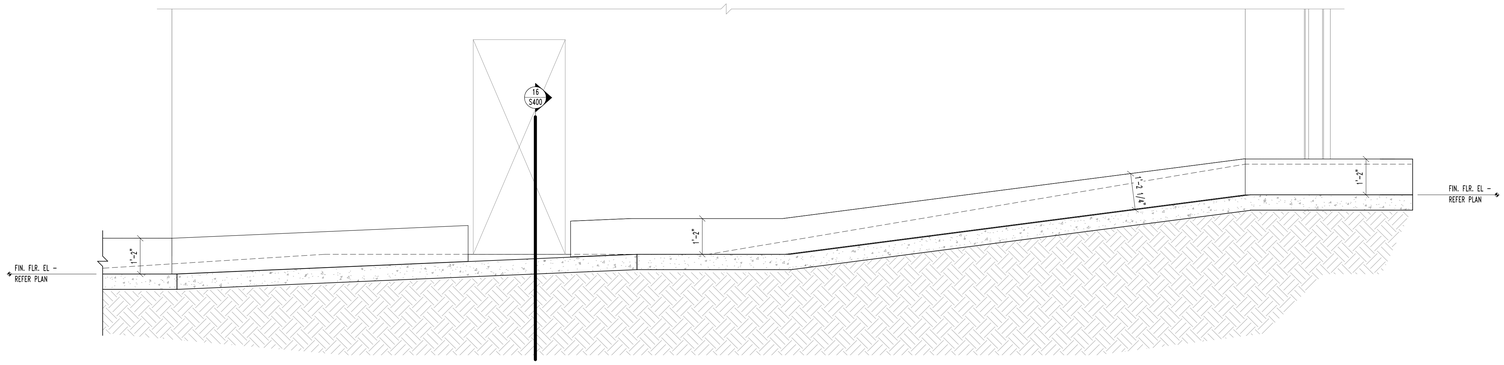
Title:
FOUNDATION DETAILS

Project No: NMSU2023-01

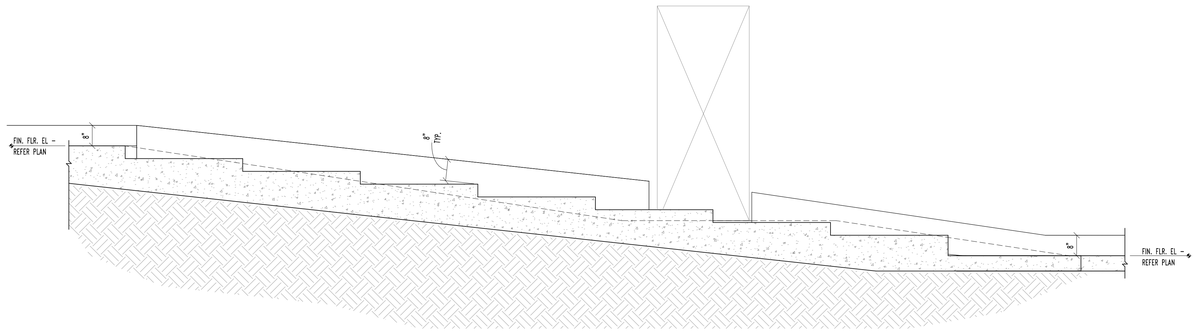
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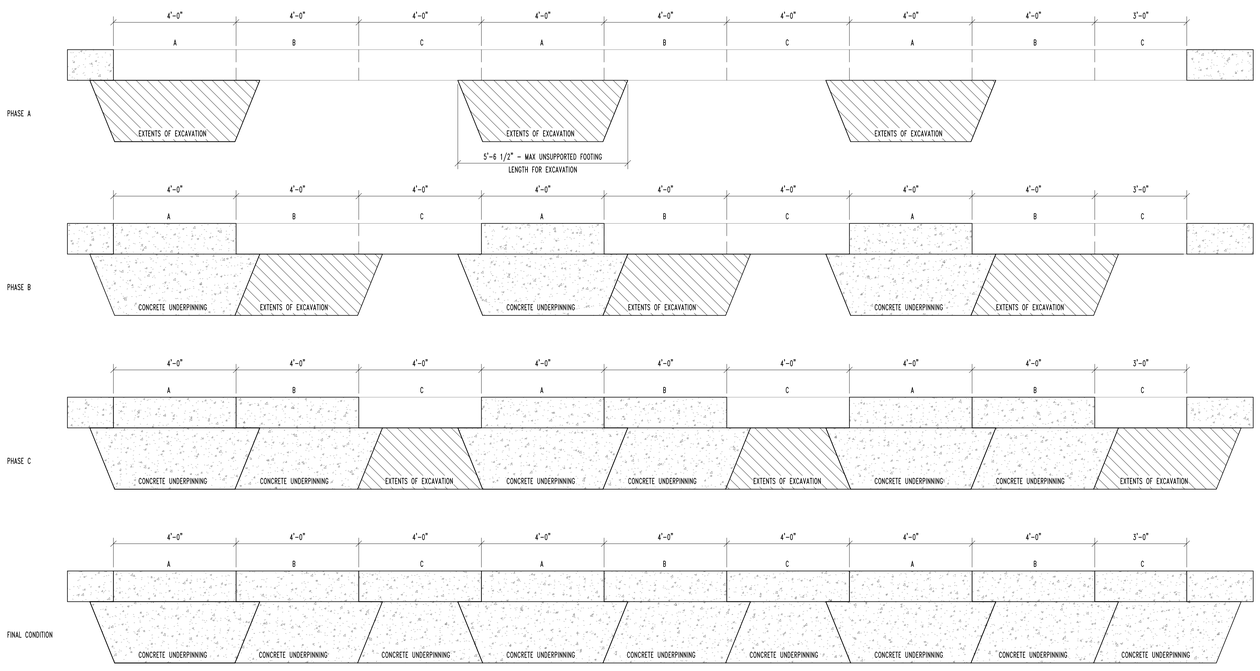
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A RAMP ELEVATION
SCALE: 1/2" = 1'-0"



B STAIR ELEVATION
SCALE: 1/2" = 1'-0"



C ELEVATION SEQUENCE
SCALE: 1/2" = 1'-0"

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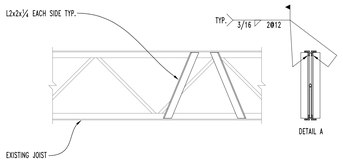
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ELEVATIONS

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S410

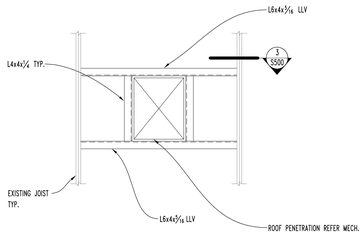
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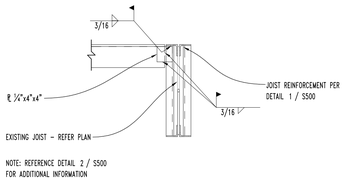
1 TYPICAL JOIST REINFORCING

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



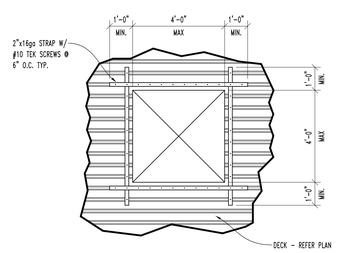
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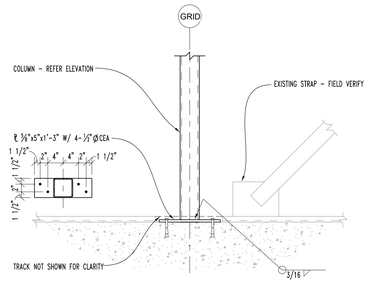
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SCALE: 3/4" = 1'-0"



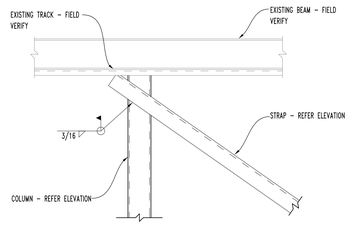
4 ROOF OPENING 4'-0" MAX

SCALE: 3/8" = 1'-0"



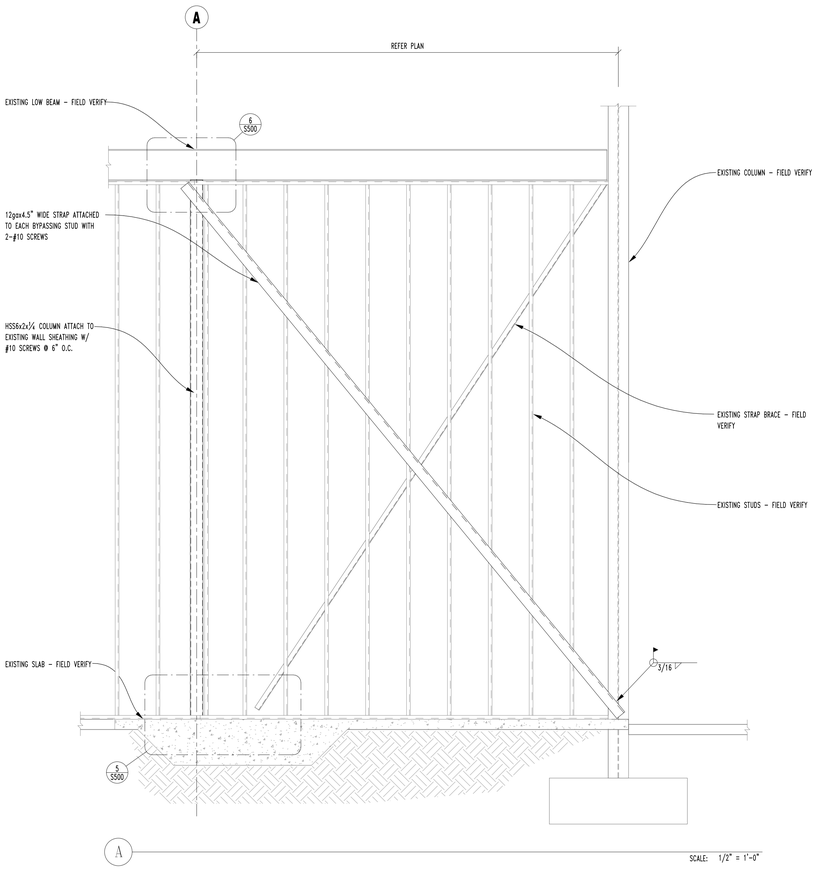
5

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



6

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



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

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LAS CRUCES, NEW MEXICO

Date: 2025-02-11	Scale: As indicated
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Title:
FRAMING DETAILS

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S500

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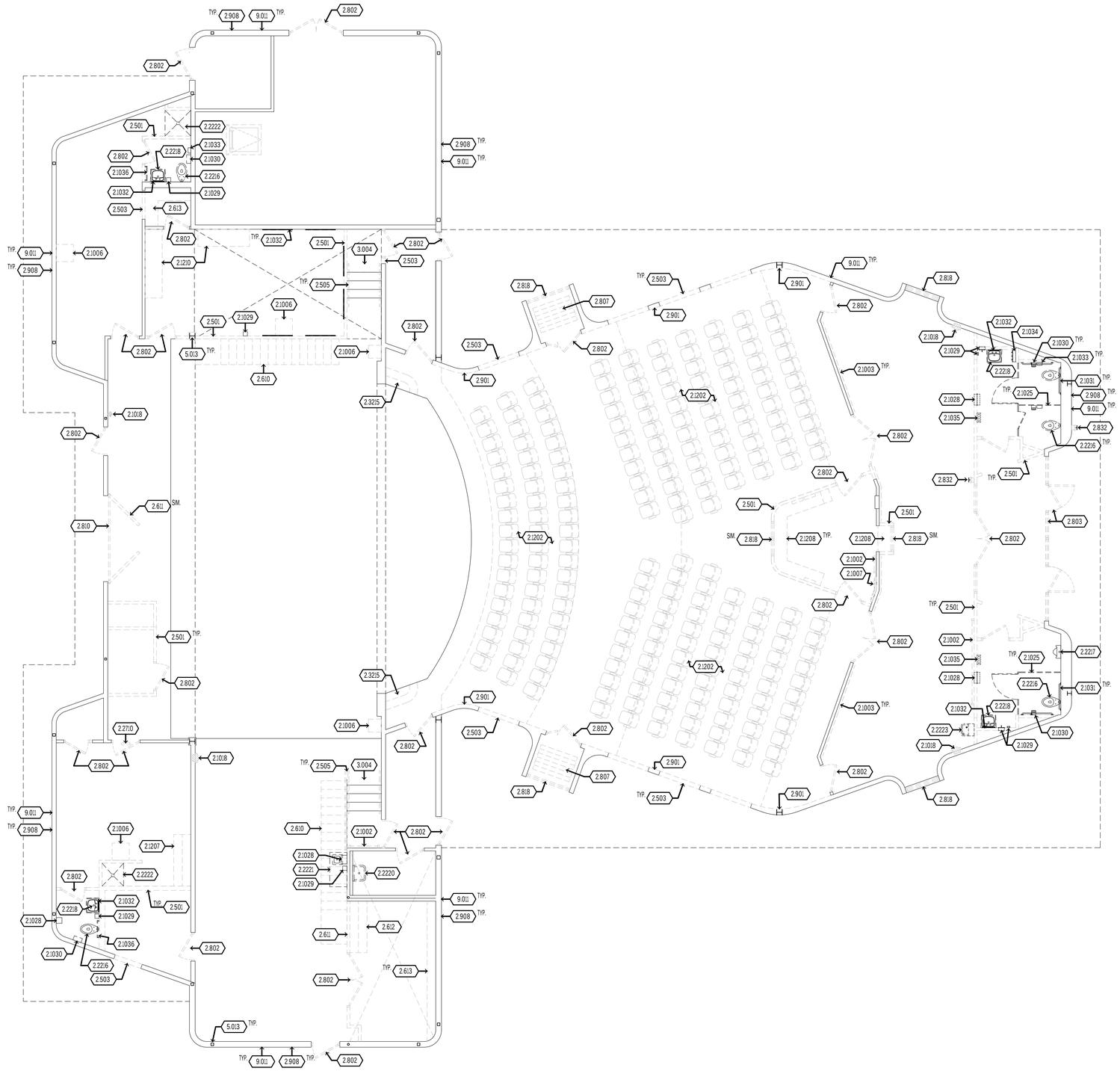
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SEI JOB NO.: A03-049

BID-LOT#2

2.908	DEMO EXISTING STUCCO SYSTEM IN ITS ENTIRETY DOWN TO THE EXISTING SHEATHING. PREPARE FOR NEW STUCCO SYSTEM.

DEMOLITION NOTES

2.501	DEMO EXISTING METAL STUD PARTITION IN ITS ENTIRETY AS SHOWN.
2.503	DEMO AREA OF EXISTING METAL STUD PARTITION FOR NEW OPENING.
2.505	DEMO EXISTING HANDRAIL IN ITS ENTIRETY.
2.610	DEMO EXISTING WOOD STAIRS AND LANDING IN ITS ENTIRETY.
2.611	DEMO EXISTING WOOD PARTITION IN ITS ENTIRETY.
2.612	DEMO EXISTING WOOD WORK TABLE IN ITS ENTIRETY.
2.613	DEMO EXISTING WOOD SHELVING IN ITS ENTIRETY.
2.802	DEMO EXISTING DOOR(S) AND FRAME(S) IN ITS ENTIRETY.
2.803	DEMO EXISTING DOOR(S), WINDOW(S) AND FRAME(S) IN ITS ENTIRETY.
2.807	DEMO EXISTING FOLDING PARTITION(S) AND TRACK(S) IN ITS ENTIRETY.
2.810	DEMO EXISTING OVERHEAD DOOR IN ITS ENTIRETY.
2.818	DEMO EXISTING WINDOW(S) IN ITS ENTIRETY.
2.832	DEMO EXISTING ADA DOOR PUSH BUTTON CONTROL IN ITS ENTIRETY. SEE ELECTRICAL DRAWINGS.
2.901	DEMO EXISTING GYPSUM BOARD IN ITRS ENTIRETY AS SHOWN.
2.1002	DEMO EXISTING TACK BOARD(S) IN ITS ENTIRETY.
2.1003	DEMO EXISTING TACK STRIP(S) IN ITS ENTIRETY.
2.1006	DEMO EXISTING TELEVISION BRACKET.
2.1007	DEMO EXISTING COAT RACK. IN ITS ENTIRETY.
2.1018	DEMO EXISTING WALL MOUNTED FIRE EXTINGUISHER IN ITS ENTIRETY.
2.1025	DEMO EXISTING TOILET COMPARTMENT(S) IN ITS ENTIRETY.
2.1028	DEMO EXISTING PAPER TOWEL DISPENSER.
2.1029	DEMO EXISTING SOAP DISPENSER.
2.1030	DEMO EXISTING TOILET TISSUE DISPENSER.
2.1031	DEMO EXISTING GRAB BARS.
2.1032	DEMO EXISTING MIRROR(S).
2.1033	DEMO EXISTING SANITARY NAPKIN DISPOSAL.
2.1034	DEMO EXISTING SANITARY NAPKIN VENDING MACHINE.
2.1035	DEMO EXISTING SURFACE MOUNTED SHARPS DISPOSAL.
2.1036	DEMO EXISTING TOWEL BAR.
2.1202	DEMO EXISTING SEATING IN ITS ENTIRETY.
2.1207	DEMO EXISTING UPPER AND BASE CABINET(S) IN ITS ENTIRETY.
2.1208	DEMO EXISTING COUNTER TOP IN ITS ENTIRETY.
2.1210	DEMO EXISTING TALL CABINETS.
2.2216	DEMO EXISTING WATER CLOSET. SEE PLUMBING DRAWINGS.
2.2217	DEMO EXISTING URINAL. SEE PLUMBING DRAWINGS.
2.2218	DEMO EXISTING WALL MOUNTED LAVATORY. SEE PLUMBING DRAWINGS.
2.2220	DEMO EXISTING MOP SINK. SEE PLUMBING DRAWINGS.
2.2221	DEMO EXISTING COMPARTMENT SINK IN ITS ENTIRETY. SEE PLUMBING DRAWINGS.
2.2222	DEMO EXISTING SHOWER IN ITS ENTIRETY. SEE PLUMBING DRAWINGS.
2.2223	DEMO EXISTING WATER COOLER(S) IN ITS ENTIRETY. SEE PLUMBING DRAWINGS.
2.2710	DEMO EXISTING SPEAKER. SEE SPECIAL SYSTEMS DRAWINGS.
2.3215	DEMO EXISTING CONCRETE STAIRS (SAW CUT). SEE STRUCTURAL DRAWINGS.
3.004	EXISTING CONCRETE STAIRS TO REMAIN. PROTECT DURING CONSTRUCTION. SEE STRUCTURAL DRAWINGS.
5.013	EXISTING STEEL COLUMN TO REMAIN. PROTECT DURING CONSTRUCTION. SEE STRUCTURAL DRAWINGS.
9.011	EXISTING STUCCO TO REMAIN. PROTECT DURING CONSTRUCTION.



1 AD101 DEMO FLOOR PLAN
SCALE: 3/16" = 1'-0"

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PLAN NORTH

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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025	Scale: VARIES
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Revisions:	
Title: DEMO FLOOR PLAN, KEYED NOTES	
Project No.: NMSU2023-01	

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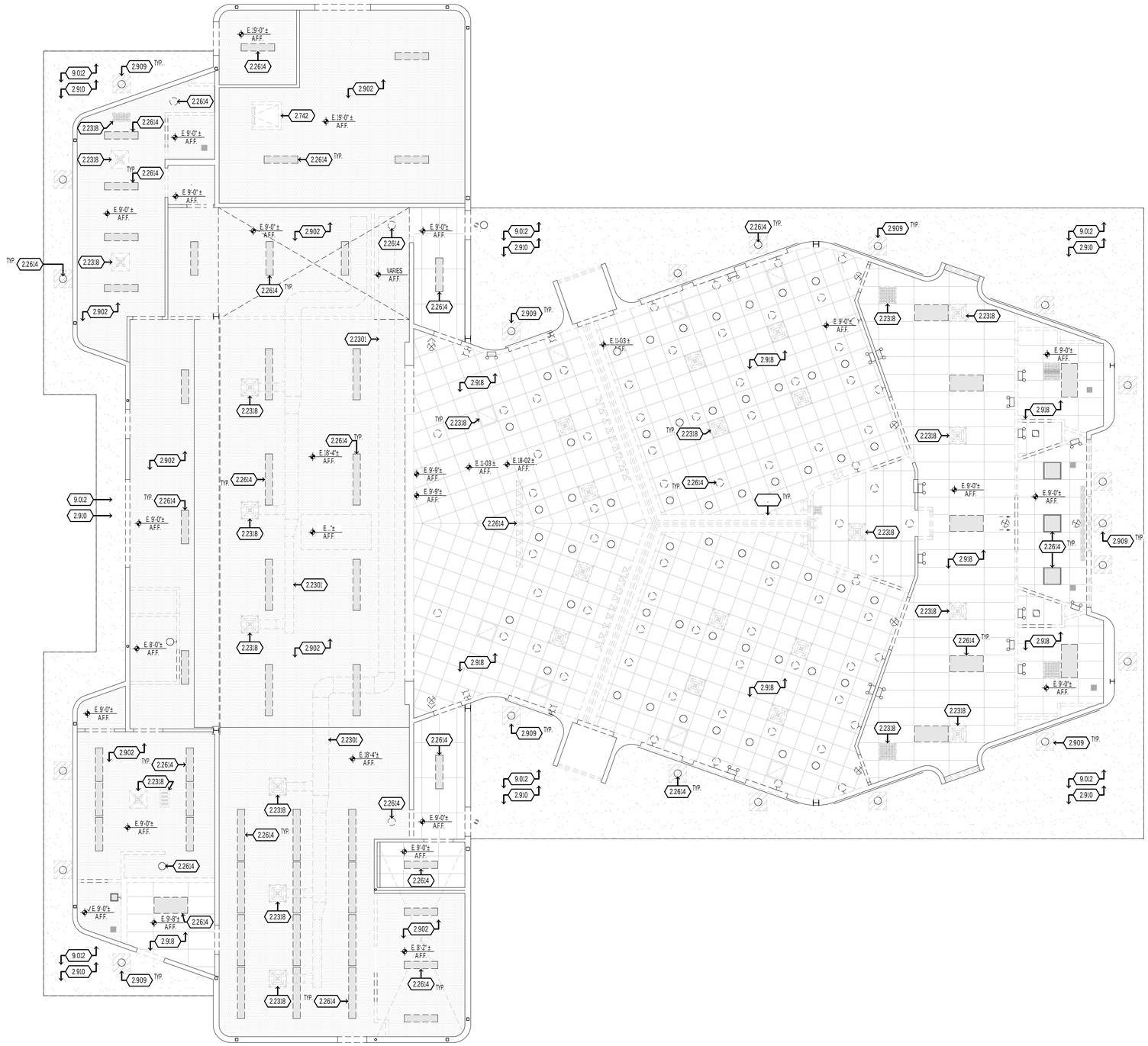
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BID-LOT#2

2.9I0	DEMO EXISTING SUSPENDED STUCCO IN ITS ENTIRETY. PREPARE FOR NEW STUCCO SYSTEM.

DEMOLITION NOTES

2.902	DEMO EXISTING GYPSUM BOARD CEILING SYSTEM IN ITS ENTIRETY OR AS SHOWN.
2.230I	DEMO EXISTING DUCT WORK IN ITS ENTIRETY. SEE MECHANICAL DRAWINGS.
2.23I8	DEMO EXISTING HVAC RETURN/SUPPLY GRILLES IN ITS ENTIRETY. SEE MECHANICAL DRAWINGS.
2.26I4	DEMO EXISTING ELECTRICAL LIGHT FIXTURE(S) IN ITS ENTIRETY. SEE ELECTRICAL DRAWINGS.
2.742	DEMO EXISTING ROOF HATCH IN ITS ENTIRETY.
2.909	DEMO EXISTING SUSPENDED STUCCO FOR NEW ELECTRICAL LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
9.0I2	EXISTING STUCCO SOFFIT TO REMAIN. PROTECT DURING CONSTRUCTION.
9.9I8	DEMO EXISTING LAY-IN ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY OR AS SHOWN.



1 AD131 DEMO. REF. CEILING PLAN

SCALE: 3/16" = 1'-0"

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Revisions:

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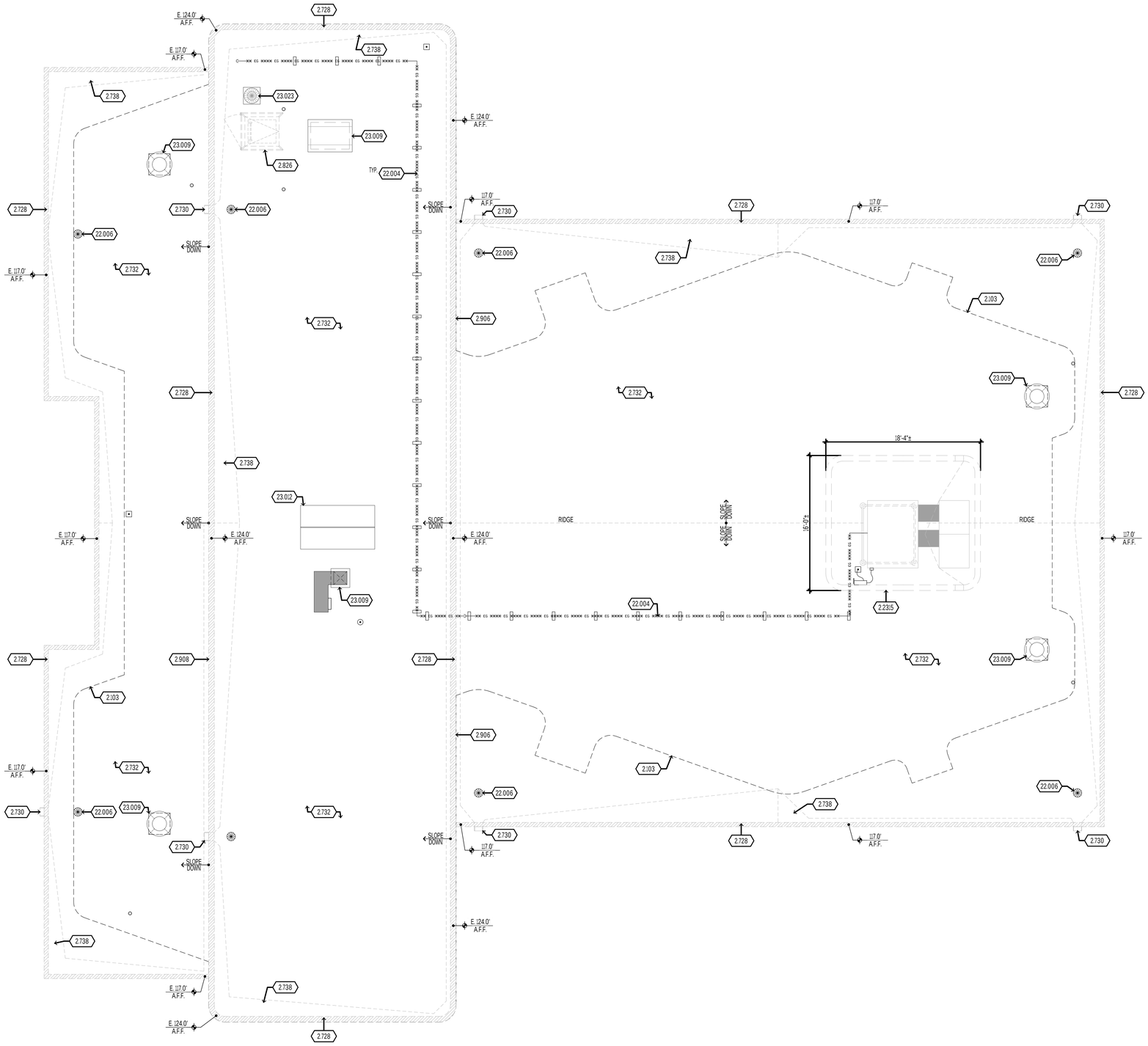
Project No.: NMSU2023-01

AD131

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DEMOLITION NOTES

2.103	EXISTING OUTLINE OF THE BUILDING PERIMETER.
2.728	DEMO EXISTING SHEET METAL COPING IN ITS ENTIRETY.
2.730	DEMO EXISTING SHEET METAL SCUPPER IN ITS ENTIRETY.
2.732	DEMO EXISTING ETHYLENE PROPYLEN ROOFING MEMBRANE SYSTEM (E.P.) ROOFING SYSTEM IN ITS ENTIRETY DOWN TO THE EXISTING METAL DECK.
2.738	DEMO EXISTING ROOF CRICKETS COMPLETELY. COORDINATE REMOVAL WITH NEW WORK.
2.23|5	DEMO EXISTING MECHANICAL SCREEN WALL IN ITS ENTIRETY AS SHOWN. PREPARE TO RECEIVE NEW ROOFING MATERIAL. SEE MECHANICAL DRAWINGS.
2.826	DEMO EXISTING ROOF HATCH IN ITS ENTIRETY.
2.906	DEMO EXISTING STUCCO SYSTEM IN ITS ENTIRETY DOWN TO THE EXISTING SHEATHING. PREPARE FOR NEW STUCCO SYSTEM.
22.004	EXISTING LINE TO REMAIN. GAS LINE TO BE CAPPED. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
22.006	EXISTING ROOF DRAIN TO REMAIN. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
23.009	EXISTING EXHAUST FAN UNIT TO BE REMOVED, REFLASHED WITH NEW ROOFING SYSTEM AND REINSTALLED. UTILITIES, DUCT, AND CURB MAY NEED TO BE EXTENDED FOR NEW ROOFING SYSTEM COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
23.012	EXISTING VENT HOOD(S) TO REMAIN. PROTECT DURING CONSTRUCTION.
23.023	EXISTING MECHANICAL PLUE TO REMAIN. REFLASH WITH NEW ROOFING SYSTEM. SEE DETAIL 1A/A50.



1 AD141 DEMO ROOF PLAN
SCALE: 3/16" = 1'-0"

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Revisions.

Title: DEMO ROOF PLAN, KEYED

NOTES.

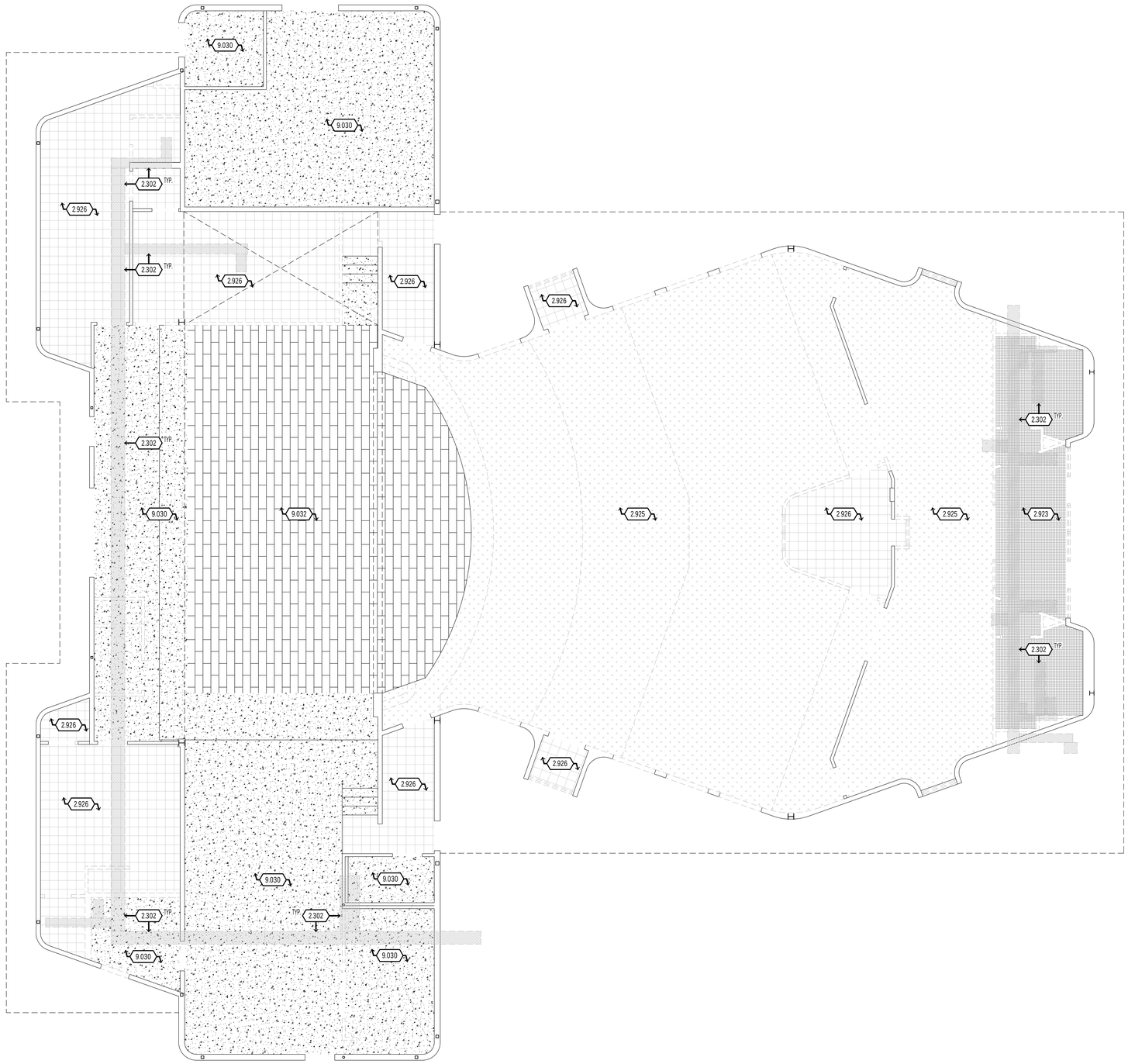
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AD141

NMSU2023-01 AD141 Demo Roof Plan.dwg

DEMOLITION NOTES

2.302	DEMO AREA (SAW CUT) OF EXISTING CONCRETE SLAB FOR THE INSTALLATION AND CONNECTION OF NEW SEW LINE. COORDINATE SAW CUTS SEE PLUMBING DRAWINGS.
2.303	DEMO AREA (SAW CUT) OF EXISTING CONCRETE SLAB FOR THE INSTALLATION AND CONNECTION OF NEW WATER LINE TO NEW PLUMBING FIXTURE. COORDINATE SAW CUTS WITH PLUMBING DRAWINGS.
2.923	DEMO EXISTING CERAMIC TILE IN ITS ENTIRETY OR AS SHOWN.
2.925	DEMO EXISTING CARPET FLOORING IN ITS ENTIRETY OR AS SHOWN.
2.926	DEMO EXISTING VINYL COMPOSITION TILE (V.C.T) FLOORING IN ITS ENTIRETY OR AS SHOWN.
9.030	EXISTING CONCRETE FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION. REPAIR AND SEAL
9.032	EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.



1 AD151 DEMO FINISH PLAN
SCALE: 3/16" = 1'-0"

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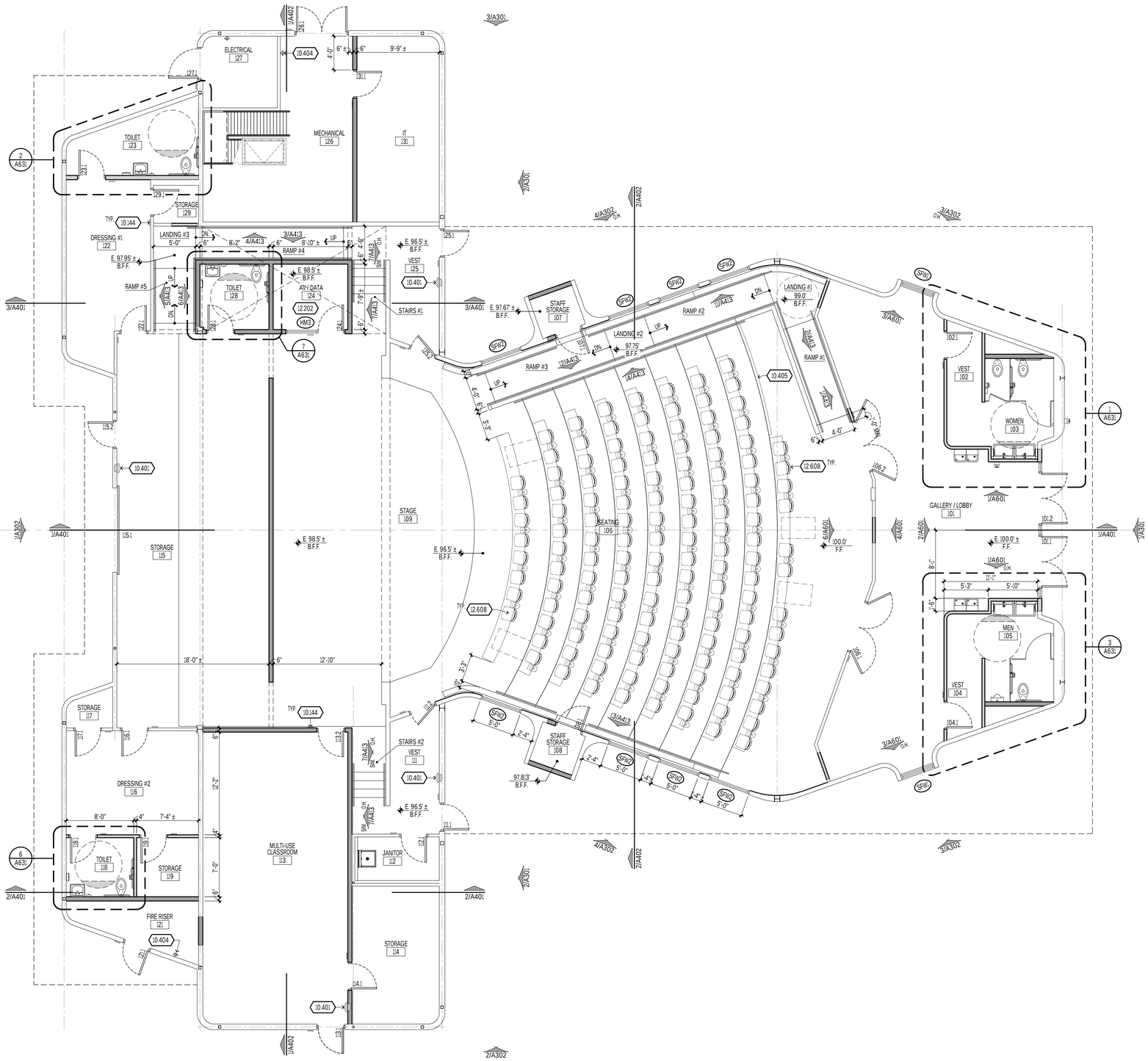
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Revisions:	
Title: DEMO FINISH FLOOR PLAN KEYED NOTES	
Project No.: NMSU2023-01	

AD151

NMSU2023-01 AD151 Demo Finish Plan.dwg

KEYED NOTES

!0.144 NEW WALL SIGNAGE 8" x 8". NINE INCHES FROM DOOR FRAME TO CENTER OF SIGN. PROVIDE MATCHING COLOR BLANK SIGN ON THE BACKSIDE OF WALL SIGN AT GLASS LOCATIONS. SEE DOOR SCHEDULE FOR HEIGHT.
!0.401 NEW FIRE EXTINGUISHER CABINET SEMI-RECESSED. SEE DETAIL.
!0.404 NEW WALL MOUNTED FIRE EXTINGUISHER.
!0.405 FLOOR MARKING SAFETY STRIPE TAPE.
!2.202 NEW 2" FAUX WOOD BLIND AT WALL WINDOWS.
!2.608 NEW FIXED SEATING WITH TABLES.



FLOOR PLAN

SCALE: 3/16" = 1'-0"

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Title: FLOOR PLAN, KEYED NOTES

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BID-LOT#2

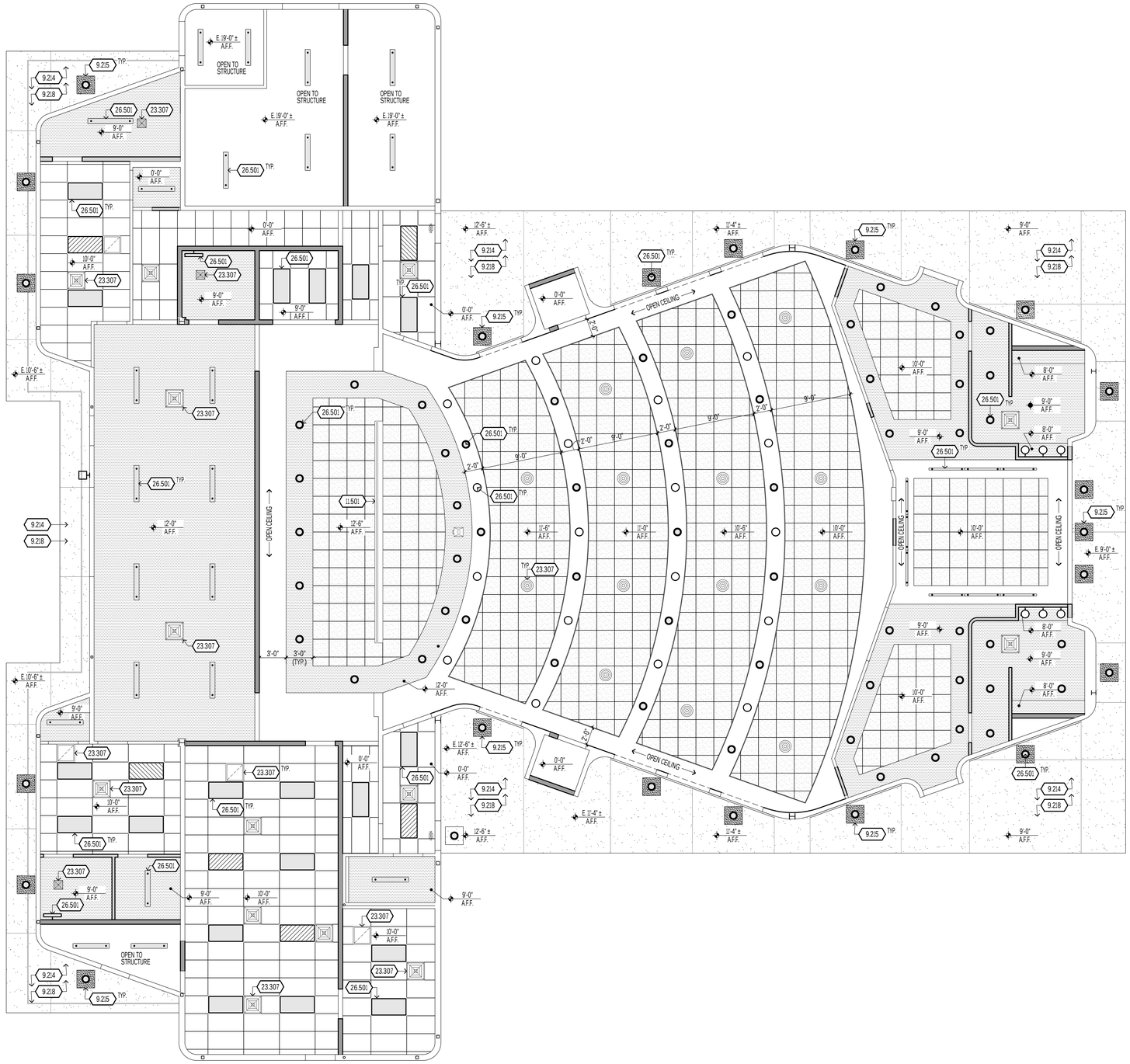
9.2I8 NEW STUCCO SUSPENDED THREE-COAT CEILING SYSTEM.

RCP NOTES

9.2I4 NEW SUSPENDED RE-COATING SYSTEM OVER EXISTING STUCCO. TO BE RE-TEXTURED, PRIME & PAINT. CLEAN & REPAIR ANY DAMAGE TO EXISTING STUCCO.
9.2I5 PATCH AREA AROUND NEW ELECTRICAL LIGHT FIXTURE WITH WIRE MESH & STUCCO TO MATCH EXISTING TEXTURE. PRIME & PAINT.
11.501 MOTORIZED PROJECTION SCREEN. XXX' SEE DETAIL X/XXX
23.307 HVAC RETURN/SUPPLY GRILLES. SEE MECHANICAL DRAWINGS.
26.501 LIGHTING FIXTURE. SEE ELECTRICAL DRAWINGS.

RCP NOTES

GYPSUM BOARD / TEXTURED AND PAINT
24" x 48" LAY-IN ACOUSTICAL
24" x 24" LAY-IN ACOUSTICAL PANEL SONAR TEGULAR SUN16200 BY ROCKFON
STUCCO
SUPPLY AIR GRILLE
RETURN AIR GRILLE
FLUORESCENT LIGHT FIXTURE
EMERGENCY FLUORESCENT LIGHT FIXTURE
SUSPENDED TRACK LIGHTING
WALL MOUNTED LIGHT FIXTURE
EMERGENCY EXIT LIGHT FIXTURE
CEILING MOUNTED LIGHT FIXTURE
RECESSED CAN LIGHT FIXTURE



1 A131 REF. CEILING PLAN
SCALE: 3/16" = 1'-0"

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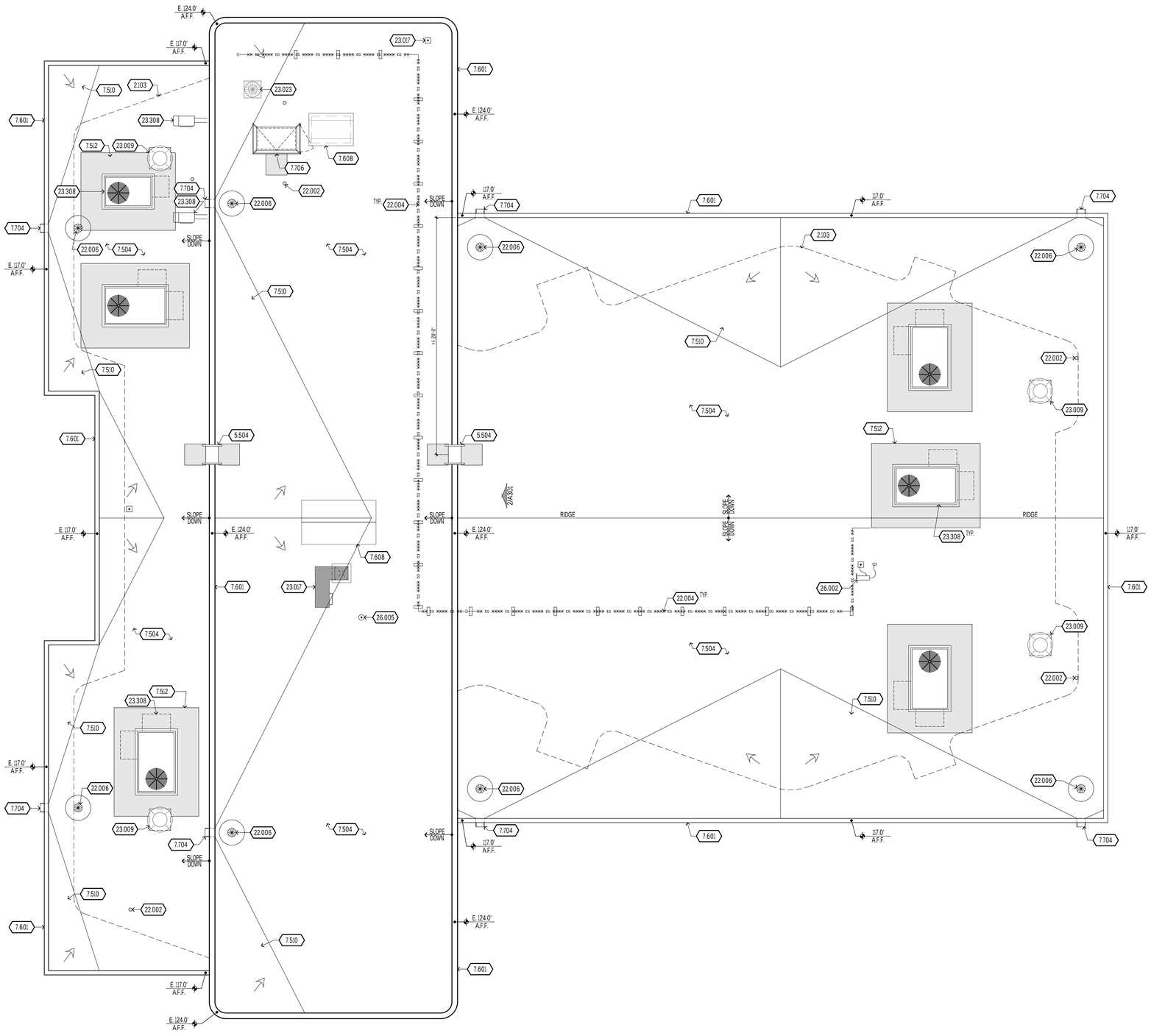
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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

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KEYED NOTES.	
Project No. NMSU2023-01	

A131

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ROOF PLAN NOTES

2.103	EXISTING OUTLINE OF THE BUILDING PERIMETER.
5.504	NEW PARAPET ACCESS LADDER WITH PLATFORM AND RETURN. SEE DETAIL 14/A502.
7.504	NEW THERMOPLASTIC POLYOLEFIN SINGLE-PLY ROOFING MEMBRANE SYSTEM (T.P.O.) ROOFING SYSTEM. FULLY ADHERED FLASHING OVER 5/8" DENS DECK AND 2 LAYERS 2 1/2" OF RIGID INSULATION (R-25) SECURED TO EXISTING METAL DECK.
7.510	NEW TPO ROOF CRICKET. INSURE 1/2" SLOPE PER FOOT WITH TAPERED INSULATION.
7.512	NEW TPO WALKING PADS - ALL WALK-PADS TO BE AN EXTRA LAYER OF 80 MIL MEMBRANE TAN OR GRAY AROUND MECHANICAL UNITS, ROOF HATCHES, AND AT ALL LADDER LANDINGS. (TYPICAL) MIN. 2'-6" WIDE OR UNLESS OTHERWISE NOTED.
7.601	NEW PARAPET COPING CAP. PREFABRICATED SHEET METAL. SEE DETAIL 16/A502.
7.608	FLASH IN EXISTING VENT HOOD. SEE DETAIL 7/A502.
7.704	NEW SCUPPER, FABRICATED SHEET METAL. SEE DETAIL 11/A502.
7.706	ROOF HATCH, SAFETY RAILING, AND CURB. SEE DETAIL 13/A502.
22.002	EXISTING PLUMBING ROOF VENT TO REMAIN. REFLASH WITH NEW ROOFING SYSTEM. SEE DETAIL 1/A502 & 2/A502.
22.004	EXISTING GAS LINE TO REMAIN. GAS LINE TO BE CAPPED. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
22.006	EXISTING ROOF DRAIN TO REMAIN. PROTECT DURING CONSTRUCTION. SEE DETAIL 10/A502. SEE PLUMBING DRAWINGS.
23.009	EXISTING EXHAUST FAN UNIT TO BE REMOVED, REFLASHED WITH NEW ROOFING SYSTEM AND REINSTALLED. UTILITIES, DUCT, AND CURB MAY NEED TO BE EXTENDED FOR NEW ROOFING SYSTEM DEPTH. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
23.017	EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
23.023	EXISTING MECHANICAL FLUE TO REMAIN. REFLASH WITH NEW ROOFING SYSTEM.
23.308	MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
26.002	EXISTING ELECTRICAL POWER TO REMAIN. SEE ELECTRICAL DRAWINGS.
26.005	EXISTING ELECTRICAL CONDUIT LINE(S) TO REMAIN. PROTECT DURING CONSTRUCTION. SEE ELECTRICAL DRAWINGS. REFLASH WITH NEW ROOFING SYSTEM

A141 ROOF PLAN
SCALE: 3/16" = 1'-0"

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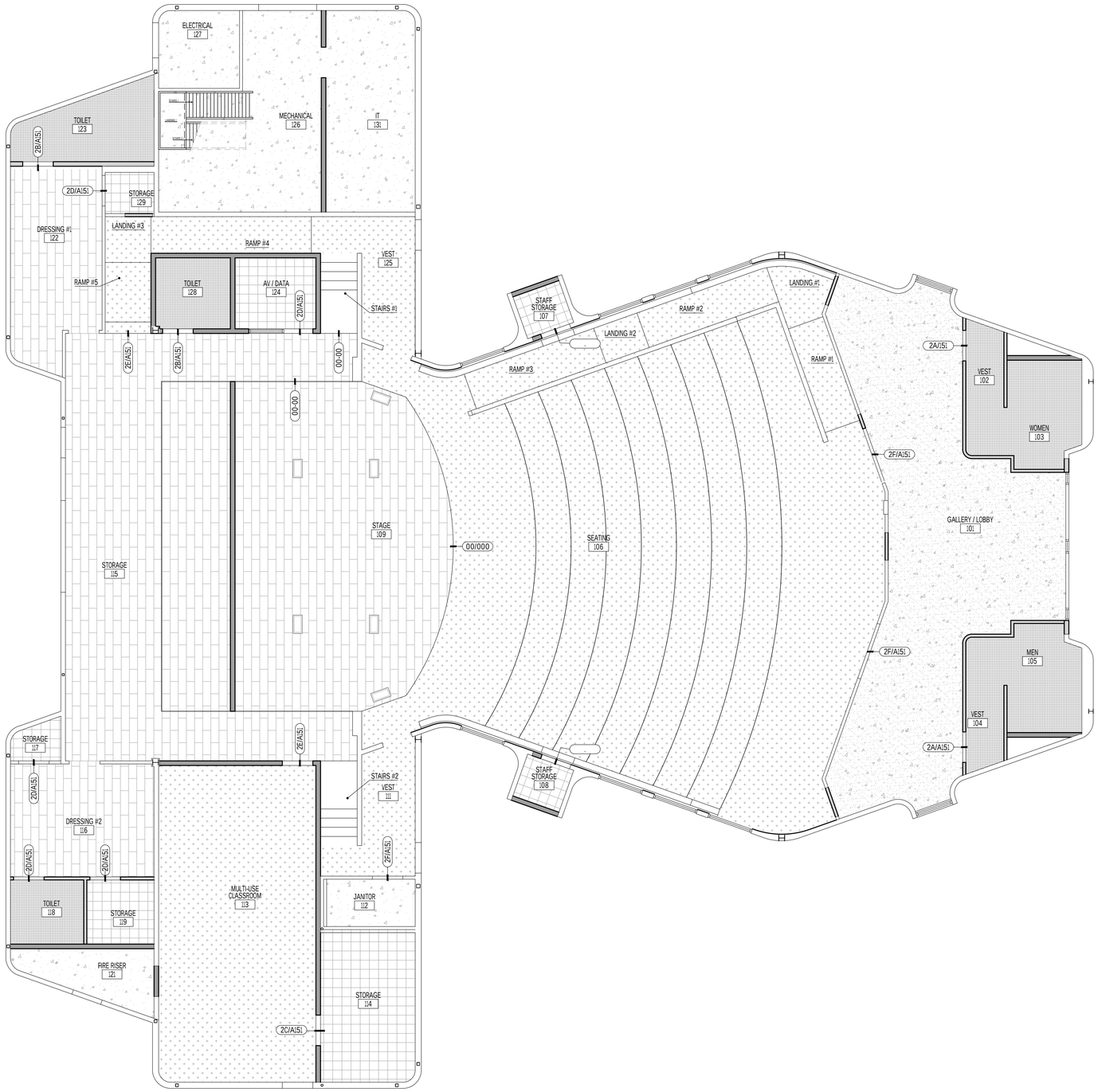
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1 A151 FLOOR FINISH PLAN
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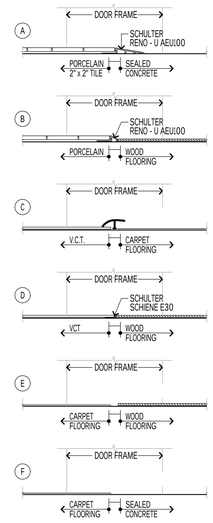
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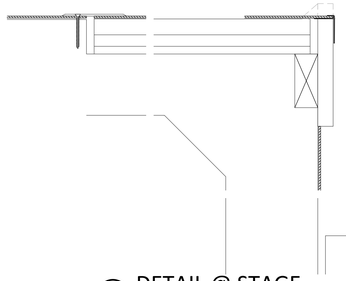
FINISH PLAN HATCH

- VCT FLOORING 12"x12"
- PORCELAIN TILE 2"x2"
- SEALED CONCRETE
- CARPET FLOORING
- VCT WOOD PLANKS

FLOORING DETAILS



2 DETAIL
SCALE: 3" = 1'-0"



3 DETAIL @ STAGE
SCALE: 3" = 1'-0"

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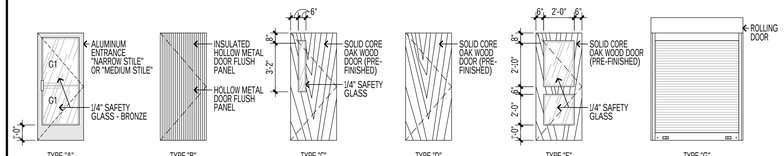
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Project No.: NMSU2023-01

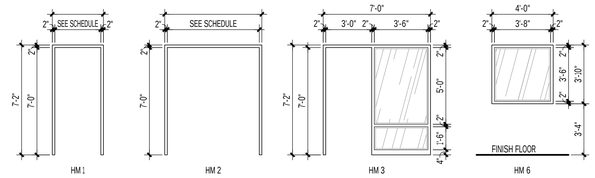
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DOOR TYPES

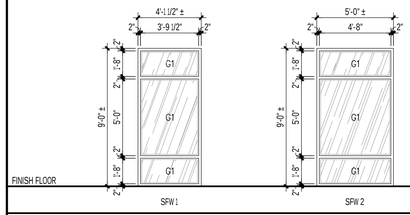


HOLLOW METAL (H.M.) DOOR AND WINDOW FRAME TYPES



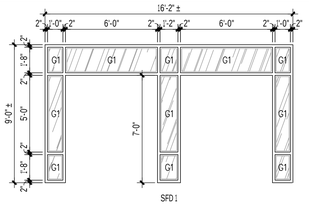
GENERAL NOTE:
1. FRAMES ON THIS SHEET ARE FOR REFERENCE ONLY CONTRACTOR MUST VERIFY ALL DOOR & WINDOW FRAMES & OPENINGS.

STORE FRONT ALUMINUM WINDOW FRAME TYPES



GENERAL NOTE:
1. FRAMES ON THIS SHEET ARE FOR REFERENCE ONLY CONTRACTOR MUST VERIFY ALL DOOR & WINDOW FRAMES & OPENINGS.

STORE FRONT ALUMINUM DOOR FRAME TYPES



GENERAL NOTE:
1. FRAMES ON THIS SHEET ARE FOR REFERENCE ONLY CONTRACTOR MUST VERIFY ALL DOOR & WINDOW FRAMES & OPENINGS.

GLAZING TYPES

G1 1" INSULTED SAFETY GLASS - BRONZE
G2 1/4" INSULTED SAFETY GLASS - BRONZE

ROOM FINISH CODES

FLOOR		BASE		WALL(S)		WAINSCOT		HGT.	CEILING	
F1	VINYL COMPOSITION TILE (V.C.T.)	B1	4" RUBBER BASE	W 1	5/8" GYPSUM BOARD	WS 1	FIBERGLASS PANEL (FRP)	4'-0"	C 1	LAY-IN ACOUSTICAL 24" x 24"
F2	V.C.T. SLIP RESISTANT	B2	SHEET VINYL	W2	5/8" M.R. GYPSUM BOARD	WS2	COLOR WALL PANEL (C.W.P.)	7'-0"	C2	LAY-IN ACOUSTICAL 24" x 48"
F3	SEALED CONCRETE	B3	CERAMIC TILE	W3	5/8" H.D. GYPSUM BOARD	WS3	CERAMIC TILE	FULL HT.	C3	M.R. LAY-IN ACOUSTICAL 24" x 24"
F4	SHEET VINYL	B4	COVE BASE	W4	C.M.U.	WS4	PORCELAIN TILE		C4	M.R. LAY-IN ACOUSTICAL 24" x 48"
F5	CERAMIC TILE	B5	4" EPOXY	W5	PLASTER	WS5			C5	5/8" GYPSUM BOARD
F6	MOSAIC TILE	B6	VENT COVE BASE	W6	PORCELAIN TILE	WS6			C6	5/8" M.R. GYPSUM BOARD
F7	CARPET	B7		W7	CERAMIC TILE	WS7			C7	CEMENT PLASTER
F8	CARPET TILE	B8		W8	SPECTRA GLAZE C.M.U.	WS8			C8	EXPOSED STRUCTURE
F9	EPOXY	B9		W9	EXPOSED CONCRETE (SEALED)	WS9			C9	SEALED CONCRETE
F10	WOOD FLOORING	B10		W10	5/8" CEMENT BOARD	WS10			C10	
F11		B11		W11	TEXTURE	WS11			C11	
F12		B12		W12		WS12			C12	
F13		B13		W13	PAINT	WS13			C13	PAINT
F14	EXISTING	B14	EXISTING	W14	EXISTING	WS14	EXISTING		C14	EXISTING
F15	NONE (NO WORK)	B15	NONE (NO WORK)	W15	NONE (NO WORK)	WS15	NONE (NO WORK)		C15	NONE (NO WORK)

NOTE:
A. NOT ALL ROOM FINISH CODES APPLY TO THIS PROJECT.
B. FINISHES INDICATED VIA FINISH SCHEDULE SHALL BE INSTALLED THRU-OUT ENTIRE ROOM, TYPICAL, UNLESS NOTED OTHERWISE (U.N.O.).

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALL(S)				WAINSCOT				CEILING		REMARKS
				NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST		HGT.	
101	GALLERY / LOBBY	F3	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	VARIES	VARIES	
102	VESTBULE	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
103	WOMEN	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
104	VESTBULE	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
105	MEN	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
106	SEATING	F7	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W15	WS15	WS15	WS15	WS15	VARIES	VARIES	
107	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	.	9'-0"	
108	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	.	9'-0"	
109	STAGE	F10	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	VARIES	VARIES	
111	VESTBULE	F7	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	-	
112	JANITOR	F3	B1	W2,W11,W13	W2,W11,W13	W2,W11,W13	W2,W11,W13	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
113	MULTI-USE CLASSROOM	F7	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C2	10'-0"	
114	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	9'-0"	
115	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	9'-0"	
116	DRESSING #2	F10	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C2	10'-0"	
117	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	9'-0"	
118	TOILET	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
119	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	9'-0"	
121	FIRE RISER	F3	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C8	-	
122	DRESSING #1	F10	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C2	10'-0"	
123	TOILET	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
124	AV / DATA	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W10,W7	WS15	WS15	WS15	WS15	C5,C13	9'-0"	
125	VESTBULE	F7	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	.	
126	MECHANICAL	F3	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C8	-	
127	ELECTRICAL	F3	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C8	-	
128	TOILET	F6	B3	W10,W7	W10,W7	W10,W7	W10,W7	WS15	WS15	WS15	WS15	C6,C13	9'-0"	★WATER RESISTANT GYP. BD.
129	STORAGE	F1	B1	W1,W11,W13	W1,W11,W13	W1,W11,W13	W1,W11,W13	WS15	WS15	WS15	WS15	C5,C13	9'-0"	
131	INFORMATION TECHNOLOGY													
132														
133														
134														
135														
136														
137														
138														
139														

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR SIZE (#) W x H x Thickness	DOOR TYPE	FRAME TYPE	HDW. SET	FIRE LABEL	CARD READER	DETAILS Head	Jamb	Jamb	Threshld	SIGN Room Name & Number	REMARKS
101.1	(2) 3'-0" x 7'-0" x 1 3/4"	A	★SFD1	.		.	4A/A501	8/A501	8/A501	4C/A501	SIGNAGE TO FOLLOW	★
101.2	(2) 3'-0" x 7'-0" x 1 3/4"	A	SFD1	.		.	4A/A501	8/A501	8/A501	4C/A501	SIGNAGE TO FOLLOW	
102.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	2A/A511	2B/A511	2B/A511	-	SIGNAGE TO FOLLOW	
104.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	2A/A511	2B/A511	2B/A511	-	SIGNAGE TO FOLLOW	
106.1	(2) 3'-0" x 7'-0" x 1 3/4"	D	HM2	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
106.2	(2) 3'-0" x 7'-0" x 1 3/4"	D	HM2	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
107.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
108.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
111.1	3'-0" x 7'-0" x 1 3/4"	B	HM1	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
111.2	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
112.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
113.1	3'-0" x 7'-0" x 1 3/4"	B	HM1	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
113.2	3'-0" x 7'-0" x 1 3/4"	E	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
114.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
115.1	10'-6" x 9'-0" x 1 3/4"	G		.		.	2S/A501	26/A501	26/A501		SIGNAGE TO FOLLOW	
115.2	3'-0" x 7'-0" x 1 3/4"	B	HM1	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
116.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
117.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
118.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	2A/A511	2B/A511	2B/A511	-	SIGNAGE TO FOLLOW	
119.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
121.1	3'-0" x 7'-0" x 1 3/4"	B	HM1	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
122.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
123.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	2A/A511	2B/A511	2B/A511	-	SIGNAGE TO FOLLOW	
124.1	3'-0" x 7'-0" x 1 3/4"	D	HM3	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
125.1	3'-0" x 7'-0" x 1 3/4"	B	HM1	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
125.2	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
126.1	(2) 3'-0" x 7'-0" x 1 3/4"	B	HM2	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
127.1	3'-6" x 7'-0" x 1 3/4"	B	HM1	.		.	2J/A501	22/A501	22/A501	23/A501	SIGNAGE TO FOLLOW	
128.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	2A/A511	2B/A511	2B/A511	-	SIGNAGE TO FOLLOW	
129.1	3'-0" x 7'-0" x 1 3/4"	D	HM1	.		.	1A/A511	1B/A511	1B/A511	-	SIGNAGE TO FOLLOW	
131.1	3'-0" x 7'-0" x 1 3/4"	B	HM1									

DOOR SCHEDULE ABBREVIATION LEGEND

MIN.	MINUTES	P	PAINT
HDW.	HARDWARE		
EXIST.	EXISTING	PRF	PRE-FINSIHED
H.M.	HOLLOW METAL	S.C. WD.	SOLID CORE WOOD

GENERAL NOTE:
1. ALL DOOR ENTRANCES TO HAVE SIGNAGE AND SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE 9" FROM THE DOOR FRAME AT 60" TO CENTER LINE OF SIGN. PROVIDE TWO SIGNS WHEN MOUNTED ON GLASS, MOUNT BACK TO BACK.
2. FIELD VERIFY DOOR OPENING DIMENSIONS AND HARDWARE LOCATIONS.
3. ALL EXISTING FRAMES MAY BE CUSTOM FRAMES. FIELD VERIFY ALL DOOR & WINDOW OPENINGS.

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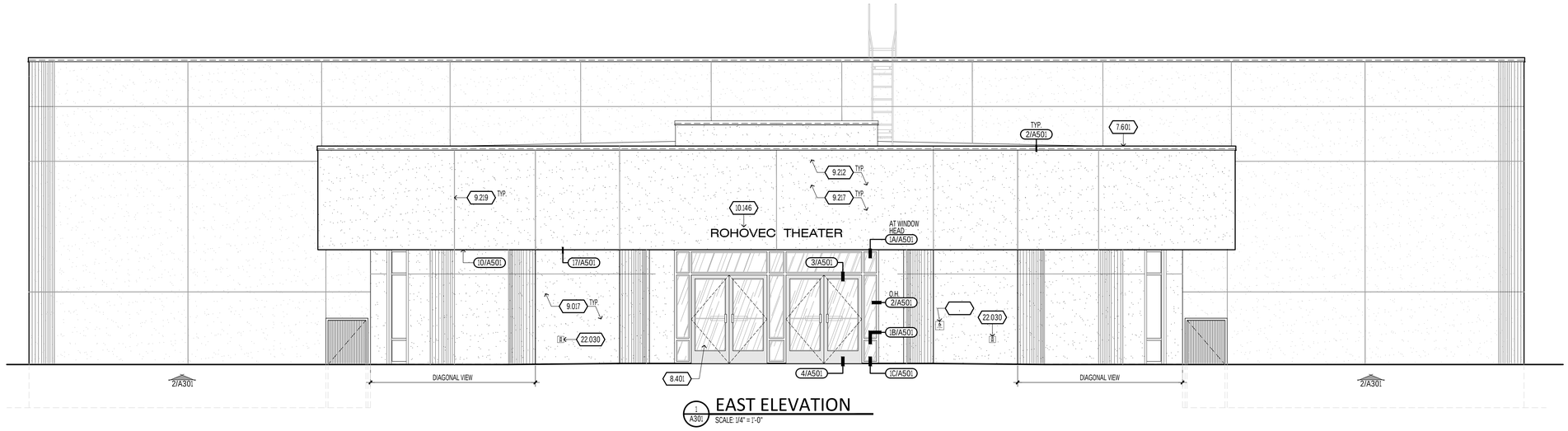
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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025 | Scale: VARIES
Drawn by: M Hdz. | Checked by: MK
Revisions:

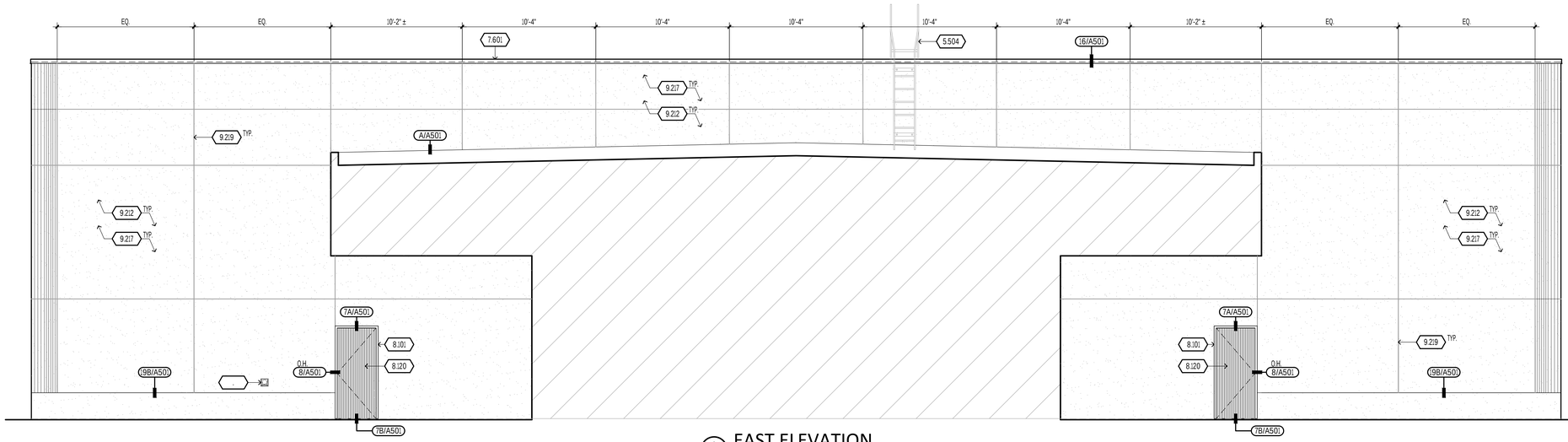
Title: ROOM FINISH SCHEDULE, DOOR & FRAME SCHEDULE, DOOR & WINDOW FRAME TYPES
Project No.: NMSU2023-01

A201

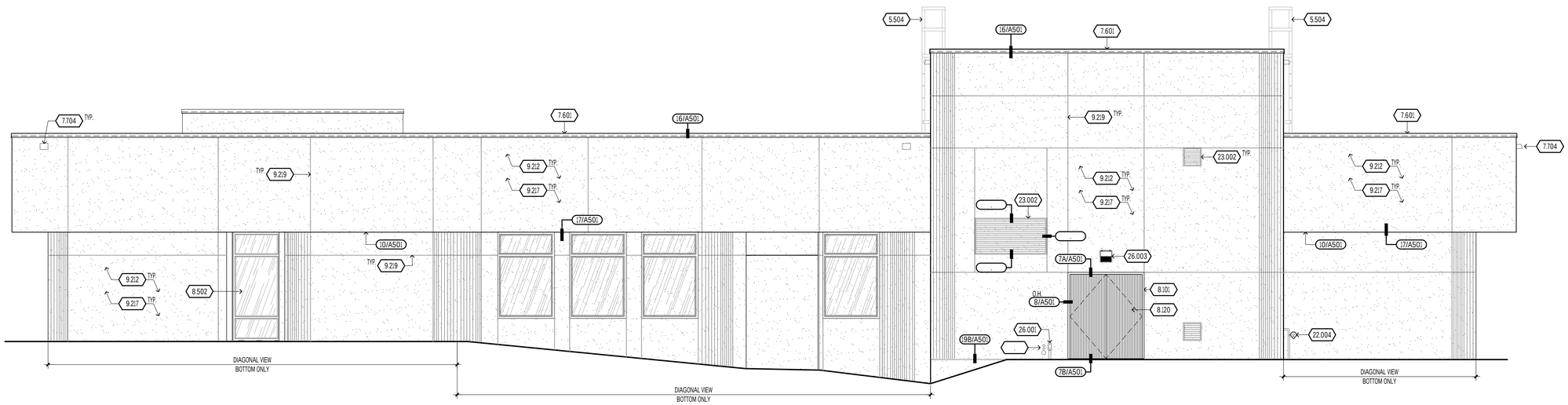
NMSU2023-01 A201 Rm Finish & Door Schedules.dwg



1 A301 EAST ELEVATION
SCALE: 1/4" = 1'-0"



2 A301 EAST ELEVATION
SCALE: 1/4" = 1'-0"



3 A301 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

EXT ELEV NOTES

5.504	NEW PARAPET ACCESS LADDER WITH PLATFORM AND RETURN.
7.601	NEW PARAPET COPING CAP. PREFABRICATED SHEET METAL. SEE DETAIL 16/A501.
7.704	NEW SCUPPER, FABRICATED SHEET METAL.
8.101	NEW HOLLOW METAL FRAME.
8.120	NEW HOLLOW METAL DOOR (THERMALLY INSULATED). SEE DOOR SCHEDULE.
8.310	NEW OVERHEAD DOOR. SEE DOOR SCHEDULE.
8.401	NEW ALUMINUM STOREFRONT FRAMING AND GLAZING.
8.502	NEW ALUMINUM WINDOW.
9.212	NEW RE-COATING SYSTEM OVER EXISTING STUCCO TO BE RE-TEXTURED, PRIME & PAINT. CLEAN & REPAIR ANY DAMAGE TO EXISTING STUCCO.
9.219	NEW STUCCO CONTROL. SEE DETAIL 19A/A501.
10.146	BUILDING SIGN LETTERS.
22.004	EXISTING GAS LINE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
22.030	EXISTING HOSE BIBB TO REMAIN. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
23.002	EXISTING HVAC LOUVERS TO REMAIN. PROTECT DURING CONSTRUCTION. SEE MECHANICAL DRAWINGS.
26.001	EXISTING ELECTRICAL CONDUIT LINE(S) TO REMAIN. PROTECT DURING CONSTRUCTION. SEE ELECTRICAL DRAWINGS.
26.002	EXISTING ELECTRICAL PANELS TO REMAIN. SEE ELECTRICAL DRAWINGS.
26.003	EXISTING ELECTRICAL LIGHT FIXTURES TO REMAIN. TEMPORARILY SUPPORT AND PROTECT DURING CONSTRUCTION.
28.003	EXISTING FIRE ALARM STROBE TO REMAIN. SEE SPECIAL SYSTEM DRAWINGS.

BID-LOT#2

9.217	NEW STUCCO THREE-COAT SYSTEM.

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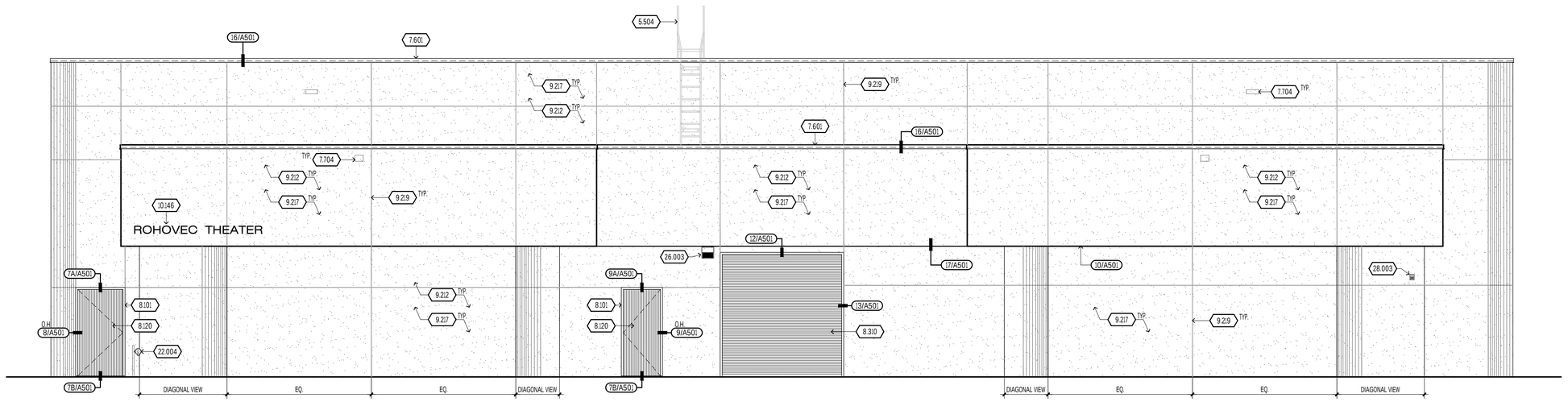
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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

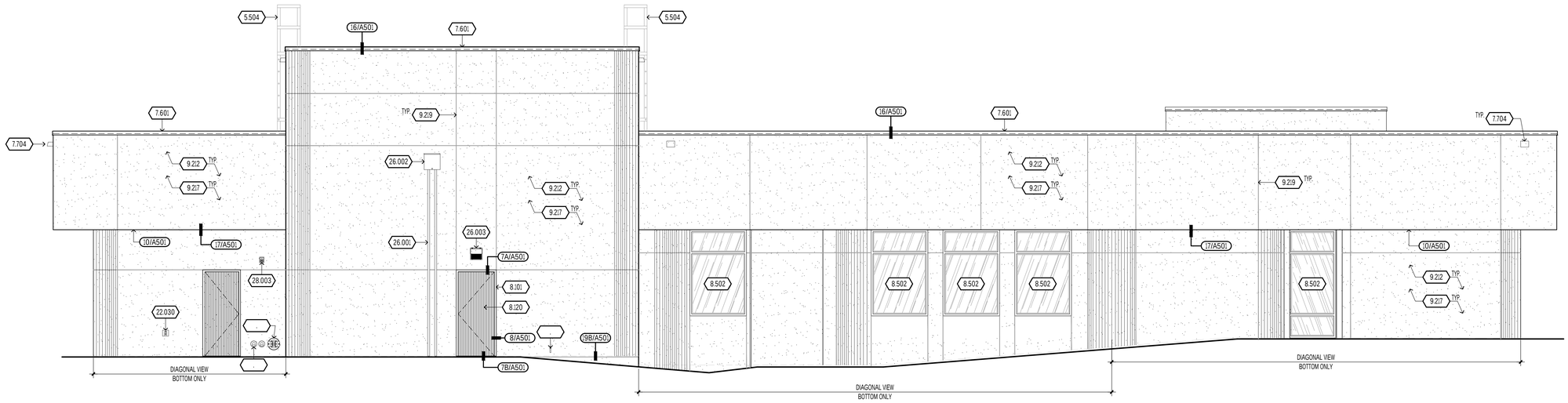
Date: 2/1/2025 | Scale: VARIES
Drawn by: M.Hdz. | Checked by: MK
Revisions:
Title: EXTERIOR ELEVATIONS, KEYED NOTES
Project No.: NMSU2023-01

A301

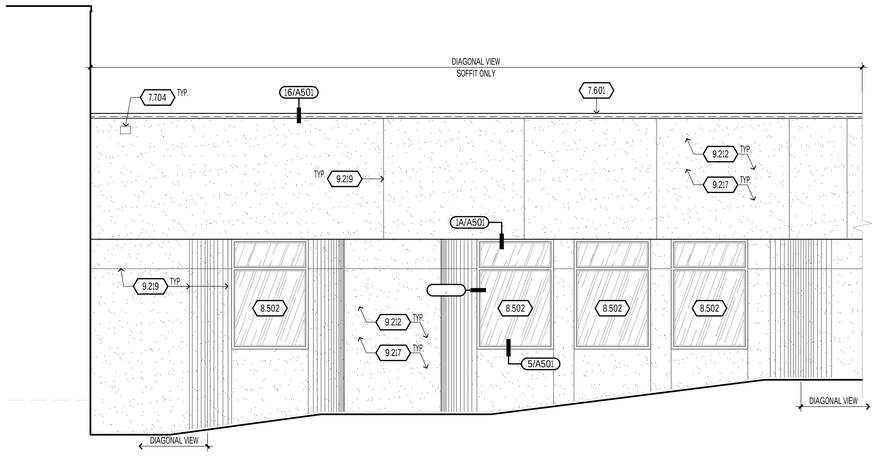
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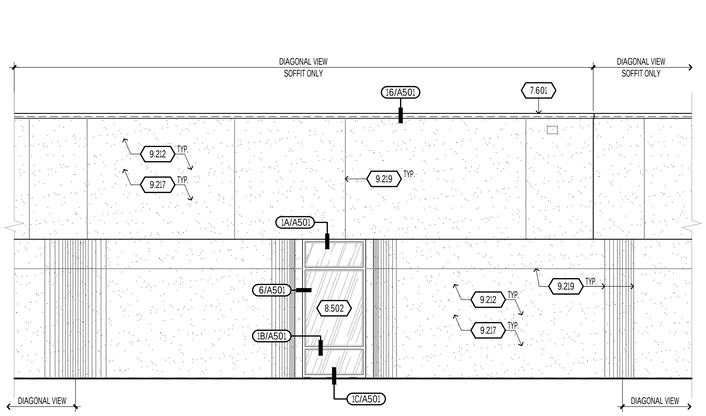
1 A302 WEST ELEVATION
SCALE: 1/4" = 1'-0"



2 A302 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



4 A302 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



3 A302 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

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10.146	BUILDING SIGN LETTERS.
22.004	EXISTING GAS LINE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
22.030	EXISTING HOSE BIBB TO REMAIN. PROTECT DURING CONSTRUCTION. SEE PLUMBING DRAWINGS.
23.002	EXISTING HVAC LOUVERS TO REMAIN. PROTECT DURING CONSTRUCTION. SEE MECHANICAL DRAWINGS.
26.001	EXISTING ELECTRICAL CONDUIT LINE(S) TO REMAIN. PROTECT DURING CONSTRUCTION. SEE ELECTRICAL DRAWINGS.
26.002	EXISTING ELECTRICAL PANELS TO REMAIN. SEE ELECTRICAL DRAWINGS.
26.003	EXISTING ELECTRICAL LIGHT FIXTURES TO REMAIN. TEMPORARILY SUPPORT AND PROTECT DURING CONSTRUCTION.
28.003	EXISTING FIRE ALARM STROBE TO REMAIN. SEE SPECIAL SYSTEM DRAWINGS.

BID-LOT#2

9.217	NEW STUCCO THREE-COAT SYSTEM.

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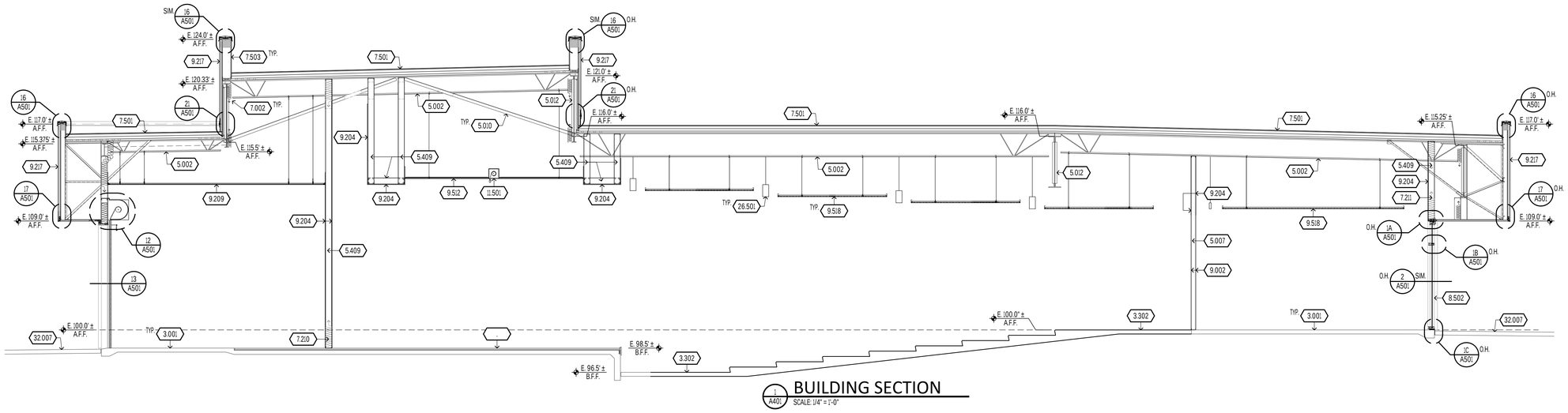
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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025	Scale: VARIES
Drawn by: M Hdz.	Checked by: MK
Revisions:	
Title: EXTERIOR ELEVATIONS. KEYED NOTES	
Project No.: NMSU2023-01	

A302

NMSU2023-01 A301-A302 Ext Elevations.dwg

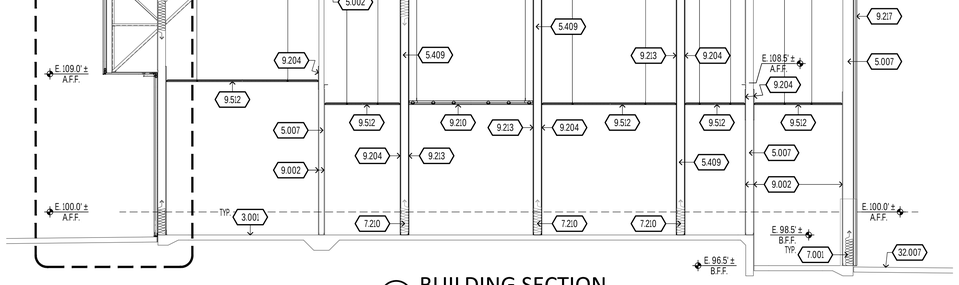


1 A401 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

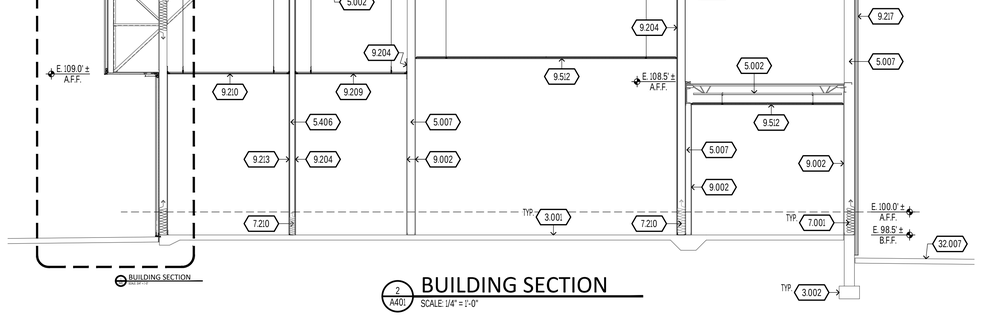
BLDG & WALL NOTES

3.001	EXISTING CONCRETE SLAB TO REMAIN. PROTECT DURING CONSTRUCTION.
3.002	EXISTING CONCRETE FOOTING TO REMAIN. PROTECT DURING CONSTRUCTION. SEE STRUCTURAL DRAWINGS.
3.302	NEW CONCRETE SLAB 4".
5.002	EXISTING STEEL JOIST(S) TO REMAIN. PROTECT DURING CONSTRUCTION. SEE STRUCTURAL DRAWINGS.
5.003	EXISTING METAL DECK TO REMAIN.
5.007	EXISTING METAL STUD TO REMAIN. PROTECT DURING CONSTRUCTION.
5.008	EXISTING JOIST TOP CORD EXTENSION TO REMAIN. PROTECT DURING CONSTRUCTION.
5.009	EXISTING STEEL BEAM TO REMAIN. PROTECT DURING CONSTRUCTION.
5.010	EXISTING STEEL ANGLE TO REMAIN. PROTECT DURING CONSTRUCTION.
5.011	EXISTING STEEL CHANNEL SUSPENDED SYSTEM.
5.012	EXISTING STEEL GIRDER TRUSS TO REMAIN. PROTECT DURING CONSTRUCTION.
5.401	NEW 7/8" METAL FURRING CHANNELS @ 16" O.C.
5.402	NEW 1 1/2" COLD ROLLED CHANNELS @ 24" O.C.
5.406	NEW 4" METAL STUD @ 16" O.C.
5.409	NEW 6" METAL STUD @ 16" O.C.
6.002	EXISTING SHEATHING TO REMAIN. PROTECT DURING CONSTRUCTION.
7.001	EXISTING BATT INSULATION TO REMAIN. PROTECT DURING CONSTRUCTION.
7.002	REPLACE ANY EXISTING EXPOSED EXTERIOR WALL BATT INSULATION WITH NEW R-19 BATT INSULATION.
7.201	NEW RIGID INSULATION 1 1/2".
7.202	NEW RIGID INSULATION 2 LAYER 2 1/2" (R-25 MIN.).
7.210	NEW SOUND BATT INSULATION (TYPCIAL @ INTERIOR WALLS).
7.211	NEW R-19 BATT INSULATION (TYPICAL @ EXTERIOR WALLS).
7.217	NEW 5/8" DENS DECK.
7.501	NEW THERMOPLASTIC POLYOLEFIN SINGLE-PLY ROOFING MEMBRANE SYSTEM (T.P.O.) ROOFING SYSTEM.
7.503	NEW THERMOPLASTIC POLYOLEFIN SINGLE-PLY ROOFING MEMBRANE SYSTEM (T.P.O.) FULLY ADHERED FLASHING.
8.502	NEW ALUMINUM WINDOW.
9.002	EXISTING GYPSUM BOARD TO REMAIN. PATCH, TEXTURE, PRIME, AND PAINT.
9.202	NEW GYPSUM BOARD 5/8" TYPE "X" AND MOISTURE RESISTANT (M.R.). TEXTURE, PRIME & PAINT.
9.204	NEW GYPSUM BOARD 1/2" TYPE "X". TEXTURE, PRIME & PAINT.
9.205	NEW GYPSUM BOARD 1/2" TYPE "X" AND MOISTURE RESISTANT (M.R.). TEXTURE, PRIME & PAINT.
9.209	NEW GYPSUM BOARD SUSPENDED CEILING (1) 1/2" CHANNELS + 7/8" CHANNEL SUSPENDED SYSTEM W/ 5/8" GYPSUM BOARD TYPE "X").
9.210	NEW GYPSUM BOARD SUSPENDED CEILING (1) 1/2" CHANNELS + 7/8" CHANNEL SUSPENDED SYSTEM W/ 5/8" MOISTURE RESISTANT "M.R").
9.213	NEW 1/2" CEMENT BOARD (CEMENTITIOUS BACKING BOARD)
9.217	NEW STUCCO THREE-COAT SYSTEM.
9.218	NEW STUCCO SUSPENDED THREE-COAT CEILING SYSTEM.
9.512	NEW ACOUSTICAL TILE CEILING SYSTEM 2'-0" x 4'-0" WITH FINE FISSURED PANEL.
9.518	NEW ACOUSTICAL TILE CEILING SYSTEM 2'-0" x 4'-0" WITH WOODWORK PANEL.
11.501	NEW MOTORIZED PROJECTION SCREEN.
26.501	NEW LIGHTING FIXTURE. SEE ELECTRICAL DRAWINGS.
32.007	EXISTING CONCRETE SIDEWALK TO REMAIN. PROTECT DURING CONSTRUCTION.

NOTE:
1. NOT ALL KEYED NOTES PERTAIN TO THIS SHEET.



3 A401 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



BUILDING SECTION

2 A401 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025	Scale: VARIES
Drawn by: M HILL	Checked by: MK

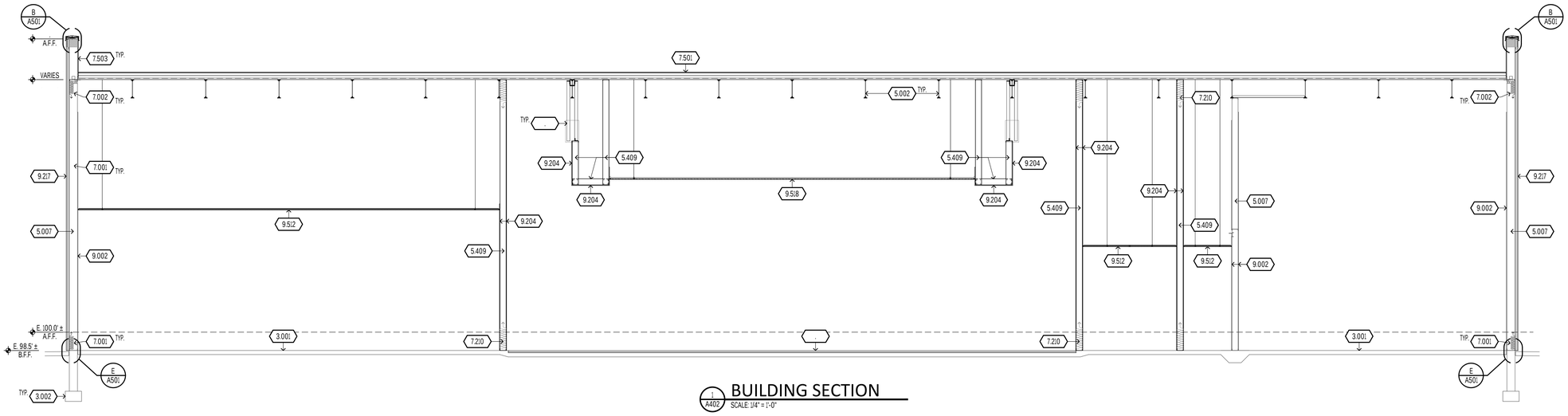
Revisions:

Title: BUILDING SECTIONS, KEYED NOTES

Project No: NMSU2023-01

A401

NMSU2023-01 A401-A502 Sections & Details.dwg



1 A402 BUILDING SECTION
SCALE: 1/4" = 1'-0"

2 A402 BUILDING SECTION
SCALE: 1/4" = 1'-0"

BLDG & WALL NOTES

3.001	EXISTING CONCRETE SLAB TO REMAIN. PROTECT DURING CONSTRUCTION.
3.002	EXISTING CONCRETE FOOTING TO REMAIN. PROTECT DURING CONSTRUCTION. SEE STRUCTURAL DRAWINGS.
3.302	NEW CONCRETE SLAB 4".
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5.003	EXISTING METAL DECK TO REMAIN.
5.007	EXISTING METAL STUD TO REMAIN. PROTECT DURING CONSTRUCTION.
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5.009	EXISTING STEEL BEAM TO REMAIN. PROTECT DURING CONSTRUCTION.
5.010	EXISTING STEEL ANGLE TO REMAIN. PROTECT DURING CONSTRUCTION.
5.011	EXISTING STEEL CHANNEL SUSPENDED SYSTEM.
5.012	EXISTING STEEL GIRDER TRUSS TO REMAIN. PROTECT DURING CONSTRUCTION.
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7.211	NEW R-19 BATT INSULATION (TYPICAL @ EXTERIOR WALLS).
7.217	NEW 5/8" DENS DECK.
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7.503	NEW THERMOPLASTIC POLYOLEFIN SINGLE-PLY ROOFING MEMBRANE SYSTEM (T.P.O.) FULLY ADHERED FLASHING.
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32.007	EXISTING CONCRETE SIDEWALK TO REMAIN. PROTECT DURING CONSTRUCTION.

NOTE:
1. NOT ALL KEYED NOTES PERTAIN TO THIS SHEET.

AKS ARCHITECTURE, P.C.
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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025	Scale: VARIES
Drawn by: M Hdz.	Checked by: MK
Revisions:	
Title: BUILDING SECTIONS, KEYED NOTES	
Project No.: NMSU2023-01	

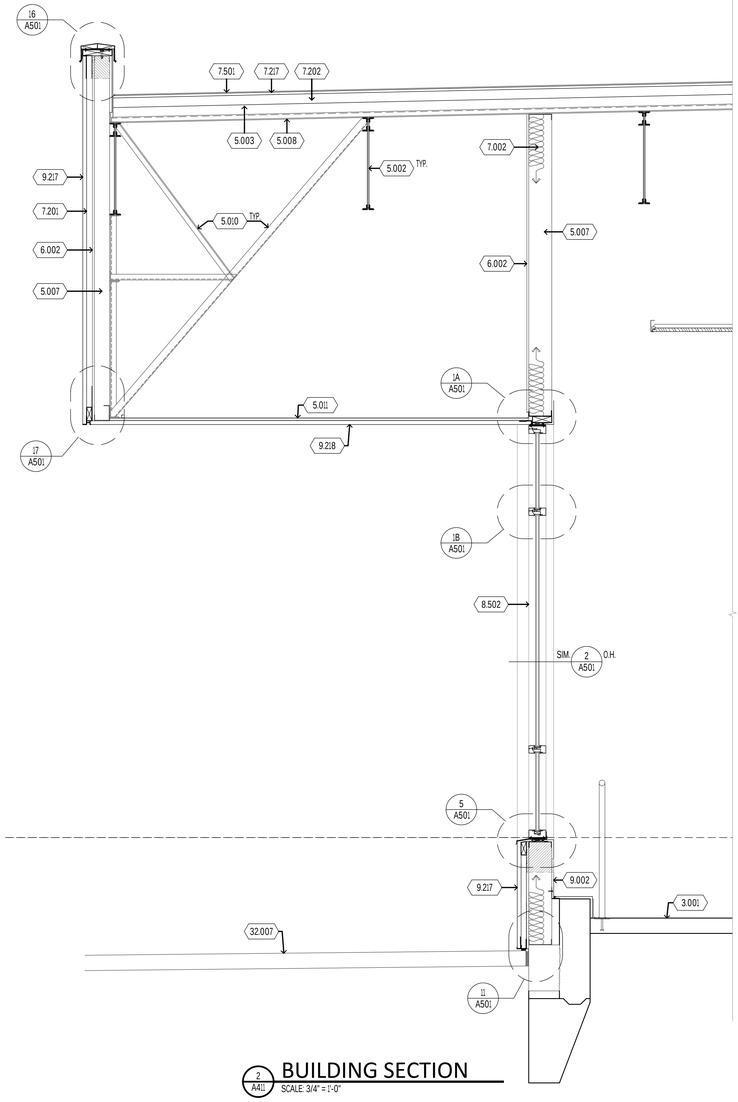
A402

NMSU2023-01 A401-A502 Sections & Details.dwg

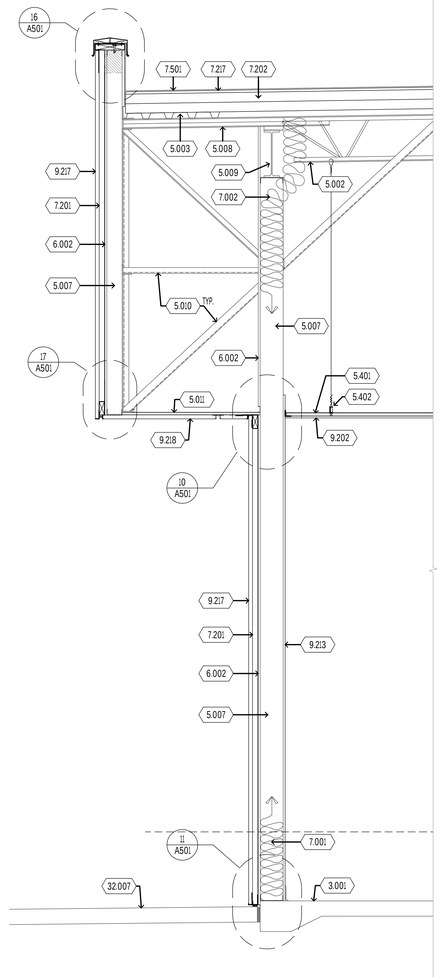
BLDG & WALL NOTES

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NOTE:
1. NOT ALL KEYED NOTES PERTAIN TO THIS SHEET.



2 A411 BUILDING SECTION
SCALE: 3/4" = 1'-0"



1 A411 BUILDING SECTION
SCALE: 3/4" = 1'-0"

ARCHITECTURE, P.C.
1691 HICKORY LOOP, STE. A
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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025	Scale: VARIES
Drawn by: M.Hdz.	Checked by: MK

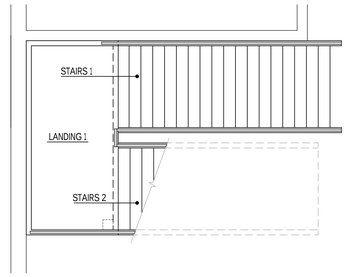
Revisions:

Title: WALL SECTIONS, KEYED NOTES

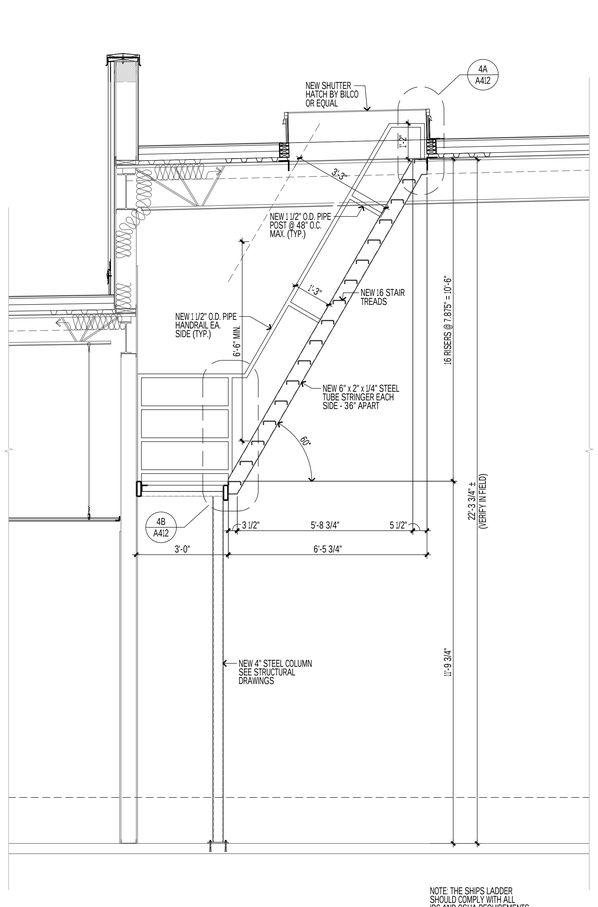
Project No.: NMSU2023-01

A411

NMSU2023-01 A401-A502 Sections & Details.dwg

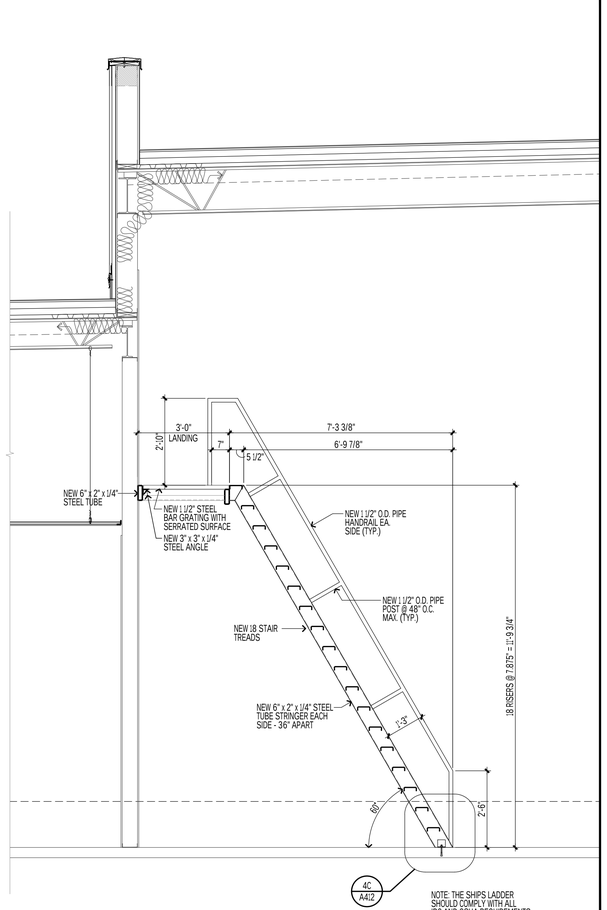


1 A412 ENLARGED STAIR PLAN
SCALE: 1/2" = 1'-0"



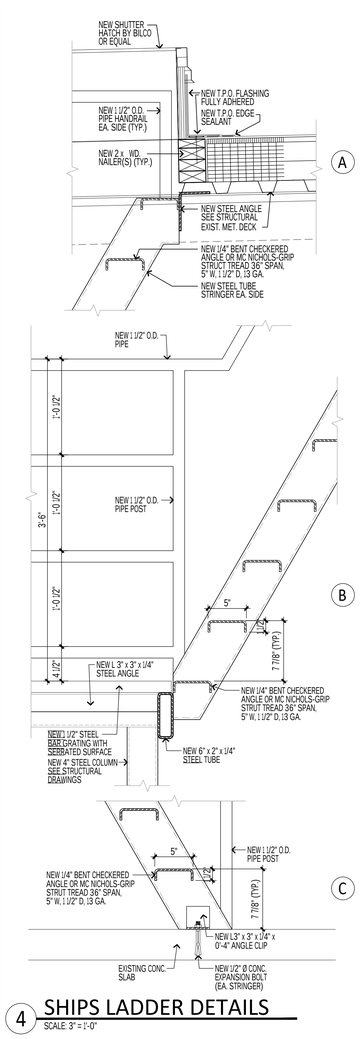
NOTE: THE SHIPS LADDER SHOULD COMPLY WITH ALL IBC AND OSHA REQUIREMENTS

6 A412 SHIPS LADDER #2
SCALE: 1/2" = 1'-0"



NOTE: THE SHIPS LADDER SHOULD COMPLY WITH ALL IBC AND OSHA REQUIREMENTS

5 A412 SHIPS LADDER #1
SCALE: 1/2" = 1'-0"



4 SHIPS LADDER DETAILS
SCALE: 3" = 1'-0"

AKS ARCHITECTURE, P.C.
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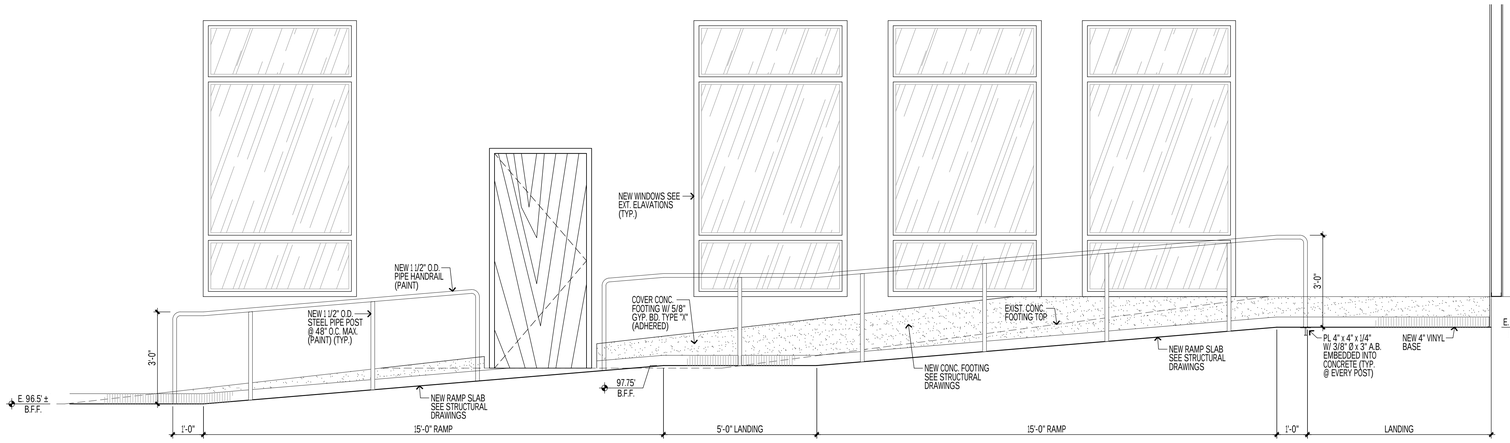
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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

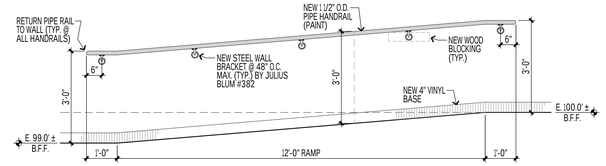
Date: 2/1/2025	Scale: VARIES
Drawn by: M.Hitt	Checked by: MK
Revisions:	
Title: ENLARGED STAIR PLAN, STAIR SECTIONS, DETAILS, NOTES	
Project No. NMSU2023-01	

A412

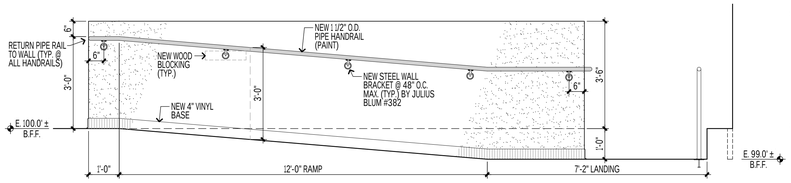
NMSU2023-01 A401-A502 Sections & Details.dwg



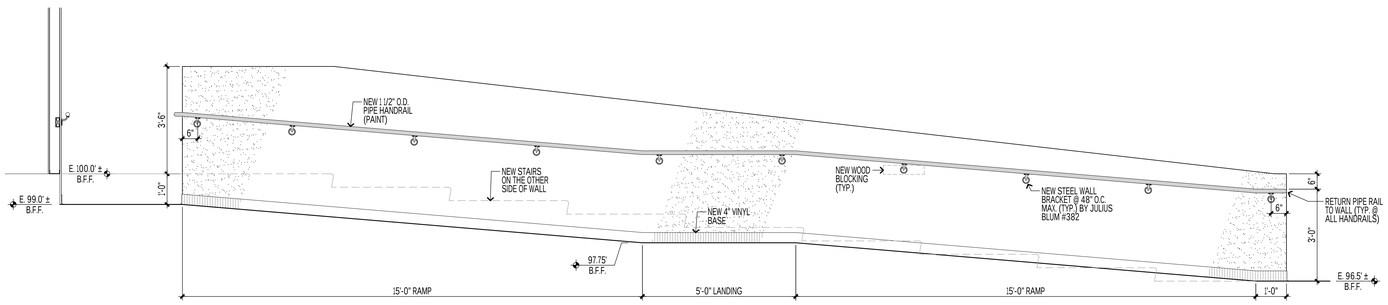
11 / A413 RAMP SECTION
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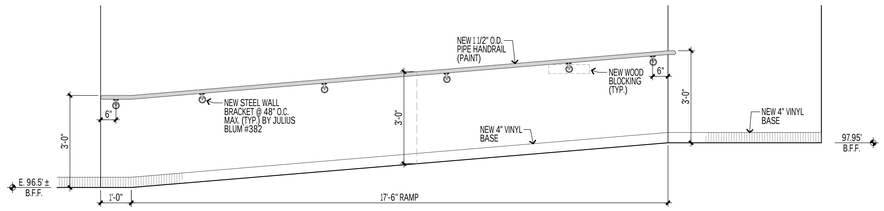
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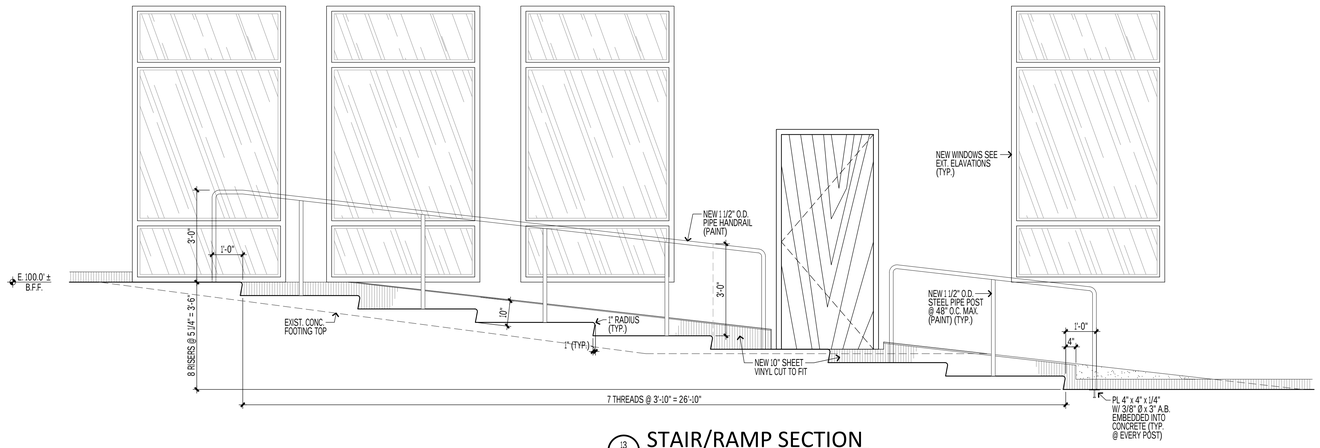
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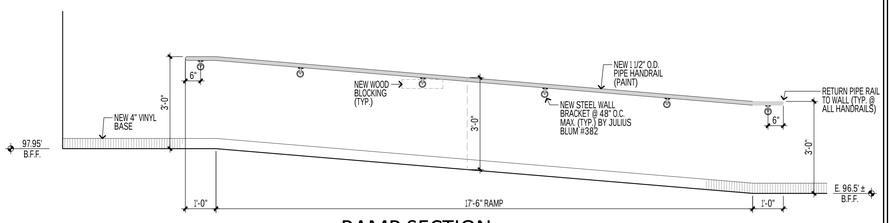
12 / A413 STAIR/RAMP SECTION
SCALE: 1/2" = 1'-0"



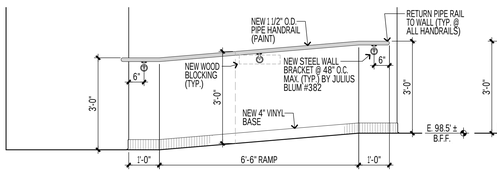
3 / A413 RAMP SECTION
SCALE: 1/2" = 1'-0"



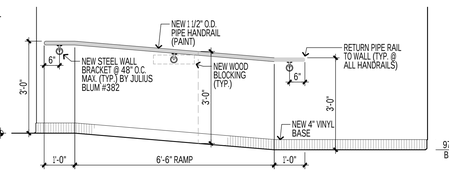
13 / A413 STAIR/RAMP SECTION
SCALE: 1/2" = 1'-0"



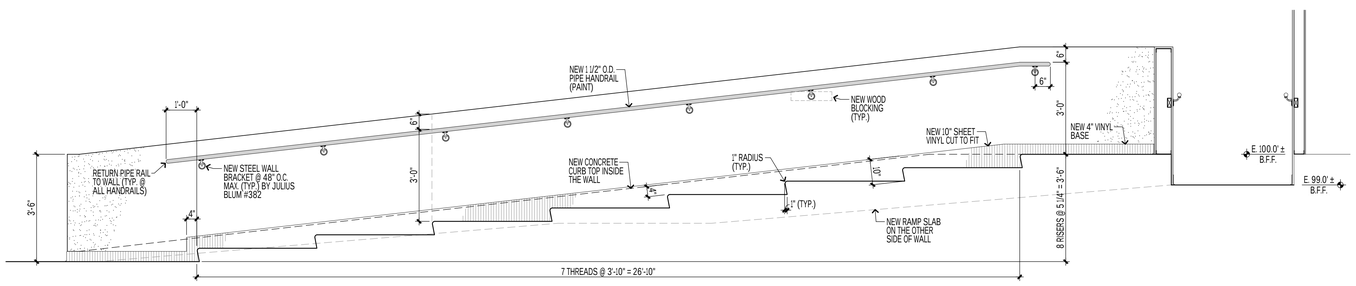
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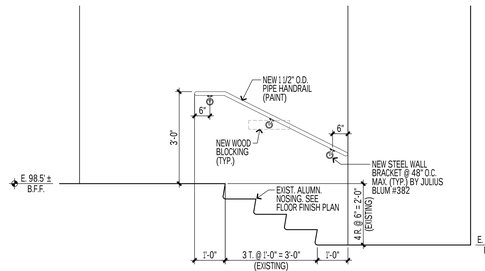
6 / A413 RAMP SECTION
SCALE: 1/2" = 1'-0"



5 / A413 RAMP SECTION
SCALE: 1/2" = 1'-0"



14 / A413 STAIR/RAMP SECTION
SCALE: 1/2" = 1'-0"



7 / A413 STAIR SECTION
SCALE: 1/2" = 1'-0"

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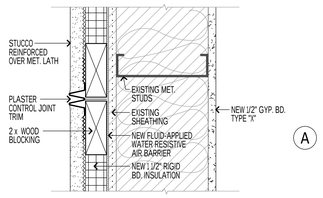
ROHOVEC BUILDING REMODEL
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Date: 2/1/2025 | Scale: VARIES
Drawn by: M Hrn | Checked by: MK
Revisions:

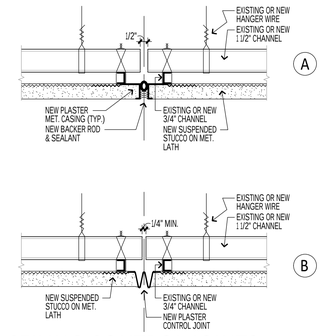
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Project No.: NMSU2023-01

A413

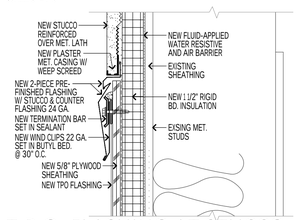
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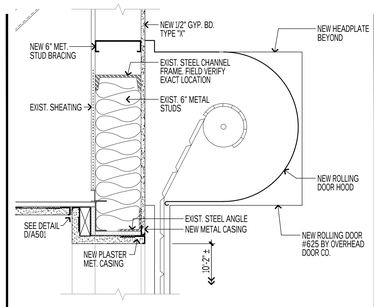
19 WALL CONTROL JOINT
SCALE: 3" = 1'-0"



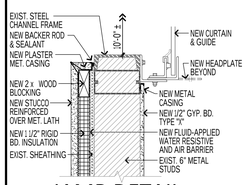
20 CEILING CONTROL JOINTS
SCALE: 3" = 1'-0"



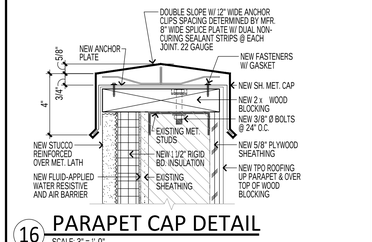
21 T.P.O. FLASHING AT STUCCO
SCALE: 3" = 1'-0"



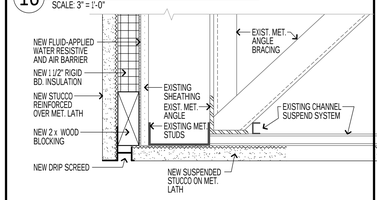
12 HEAD DETAIL
SCALE: 1 1/2" = 1'-0" ROLL UP DOOR



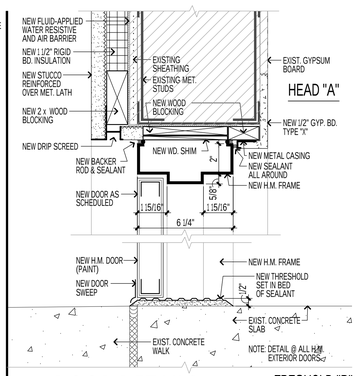
13 JAMB DETAIL
SCALE: 1 1/2" = 1'-0" ROLL UP DOOR



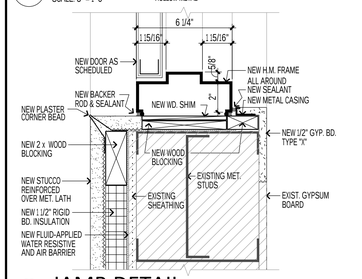
16 PARAPET CAP DETAIL
SCALE: 3" = 1'-0"



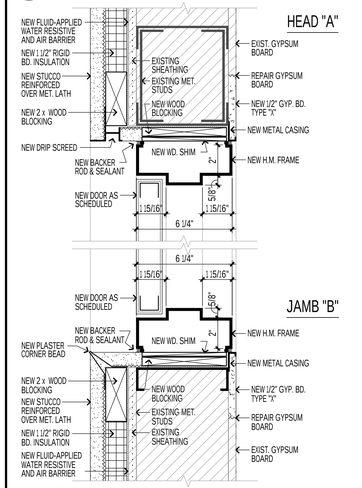
17 SOFFIT DRIP DETAIL
SCALE: 3" = 1'-0"



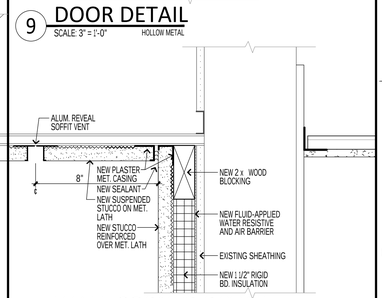
7 DOOR DETAILS
SCALE: 3" = 1'-0" HOLLOW METAL



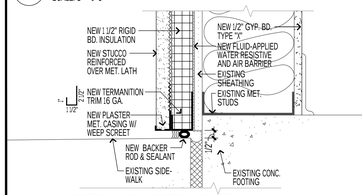
8 JAMB DETAIL
SCALE: 3" = 1'-0" HOLLOW METAL



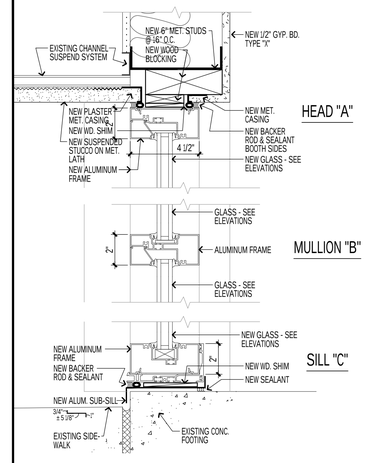
9 DOOR DETAIL
SCALE: 3" = 1'-0" HOLLOW METAL



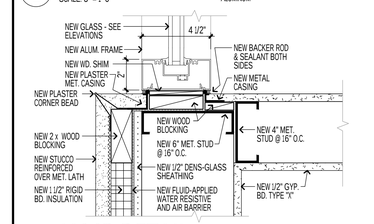
10 WALL CORNER DETAIL
SCALE: 3" = 1'-0"



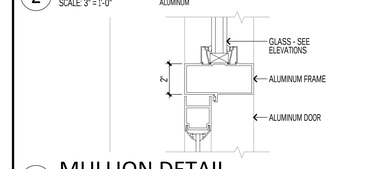
11 WEEP SCREED DETAIL
SCALE: 3" = 1'-0"



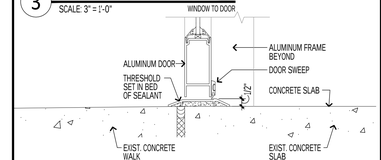
1 WINDOW DETAILS
SCALE: 3" = 1'-0" ALUMINUM



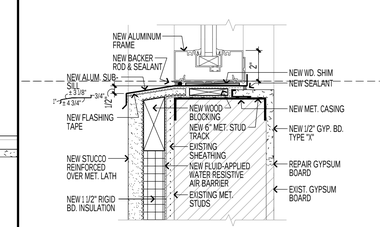
2 JAMB DETAIL
SCALE: 3" = 1'-0" ALUMINUM



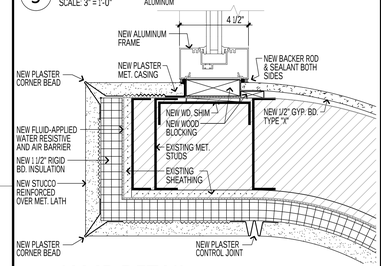
3 MULLION DETAIL
SCALE: 3" = 1'-0" WINDOW TO DOOR



4 THRESHOLD DETAIL
SCALE: 3" = 1'-0" ALUMINUM



5 SILL DETAIL
SCALE: 3" = 1'-0" ALUMINUM



6 JAMB DETAIL
SCALE: 3" = 1'-0" ALUMINUM

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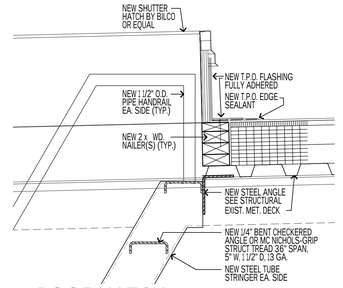
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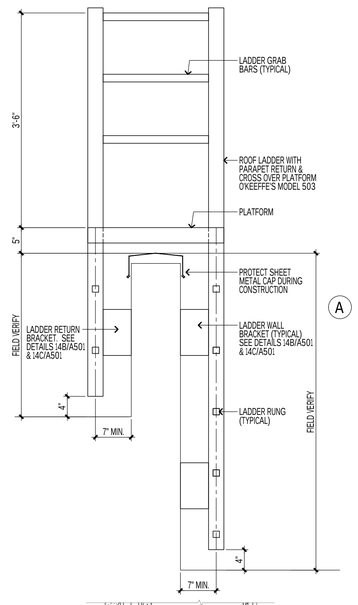
Title: EXTERIOR DETAILS

Project No. NMSU2023-01

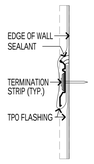
A501



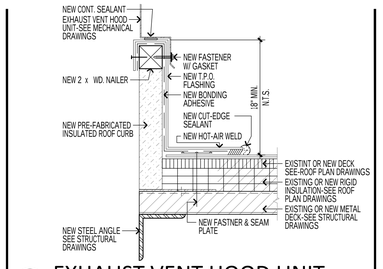
13 ROOF HATCH
SCALE: 3/4" = 1'-0"



14 PARAPET ACCESS LADDER
SCALE: 1" = 1'-0"



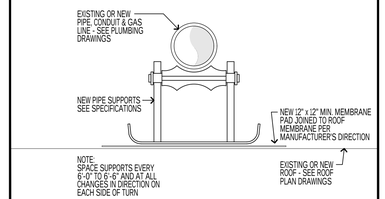
16 T.P.O. FLASHING (TYPICAL)
SCALE: 1" = 1'-0"



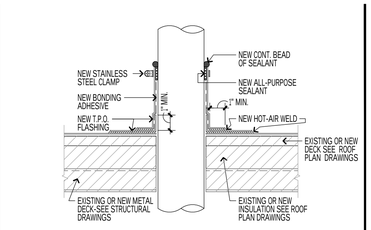
7 EXHAUST VENT HOOD UNIT
SCALE: 3" = 1'-0"

10 ROOF DRAIN
SCALE: 1" = 1'-0"

11 OVERFLOW SCUPPER
SCALE: 3" = 1'-0"

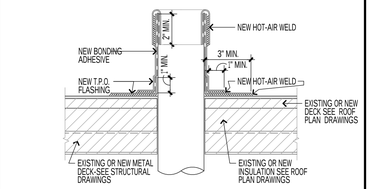


12 PIPE SUPPORT
SCALE: 3" = 1'-0"

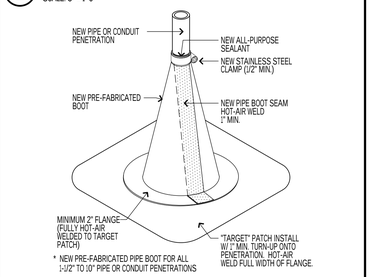


09/17/2021

1 VENT STACK A
SCALE: 3" = 1'-0"

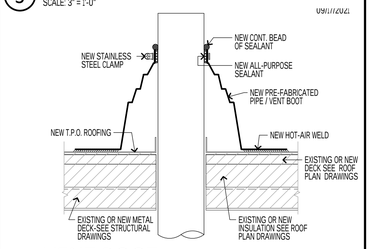


2 VENT STACK B
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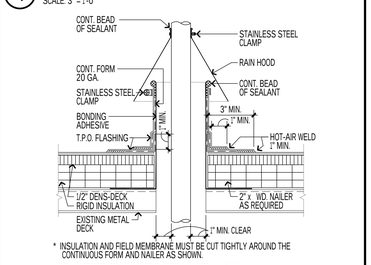


3 CONICAL FLASHING
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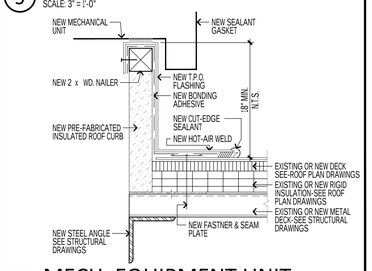
09/17/2021



4 VENT BOOT
SCALE: 3" = 1'-0"



5 HEATED VENT STACK
SCALE: 3" = 1'-0"



6 MECH. EQUIPMENT UNIT
SCALE: 3" = 1'-0"

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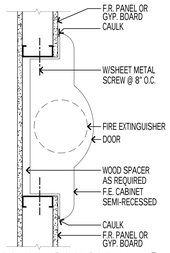
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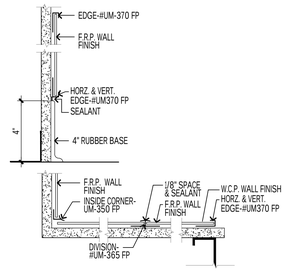
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Revisions:
Title: BUILDING SECTIONS.
NOTES:
Project No. NMSU2023-01

A502

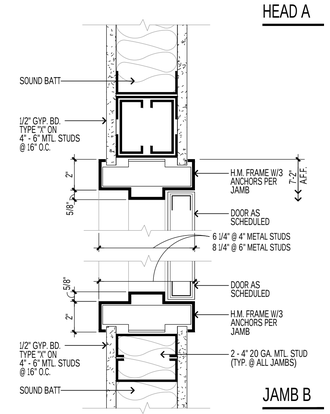
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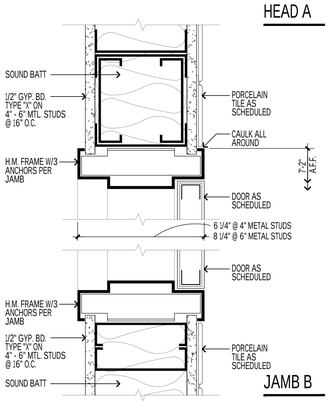
5 FIRE EXTINGUISHER @ STUD
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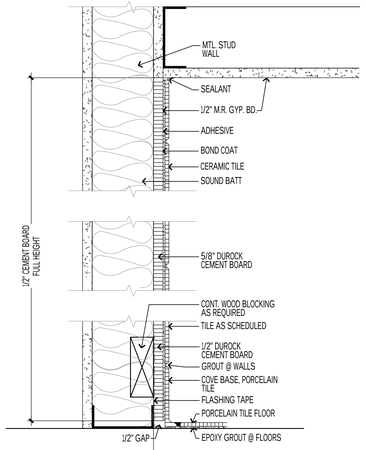
6 F.R.P MOLDING DETAILS
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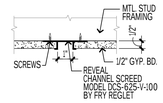
1 DETAIL
SCALE: 3" = 1'-0"



2 DETAIL
SCALE: 3" = 1'-0"



3 WALL TILE SECTION @ R.R.
SCALE: 3" = 1'-0"



4 REVEAL DETAIL
SCALE: 3" = 1'-0"

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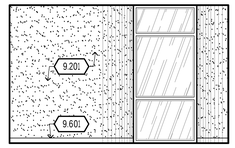
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Drawn by: KP | Checked by: MK
Revisions:

Title: INTERIOR
RCP DETAILS

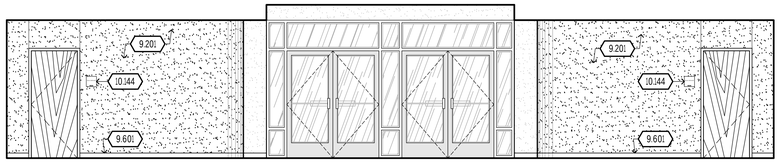
Project No.: NMSU2023-01

A511

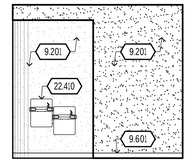
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3 A631 GALLERY / LOBBY
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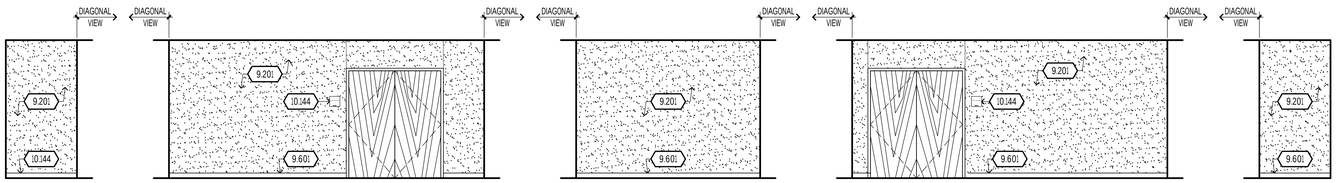
2 A631 GALLERY / LOBBY
SCALE: 1/4" = 1'-0"



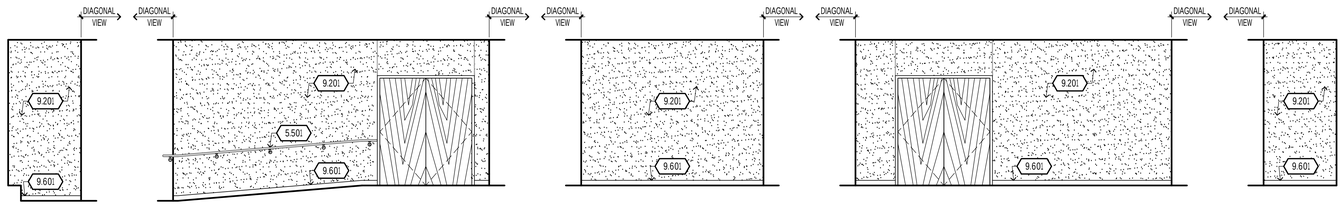
1 A631 GALLERY / LOBBY
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KEYED NOTES

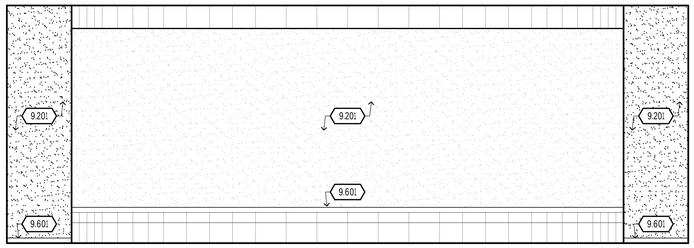
5.501	HAND RAIL 1 1/2" DIAMETER STEEL PIPE. PRIME AND PAINT. SEE DETAIL XX/AXXX
9.201	GYPSUM BOARD 1/2" TYPE "X". TEXTURE, PRIME & PAINT.
9.601	BASE RUBBER 4" HIGH.
10.144	WALL SIGNAGE 8"x8". NINE INCHES FROM FRAME TO CENTER OF SIGN. PROVIDE MATCHING COLOR BLANK SIGN ON THE BACKSIDE OF WALL SIGN AT GLASS LOCATIONS. SEE DOOR SCHEDULE FOR HEIGHT.
22.410	ELECTRIC WATER COOLER(S). SEE ELECTRICAL & MECHANICAL DRAWINGS.



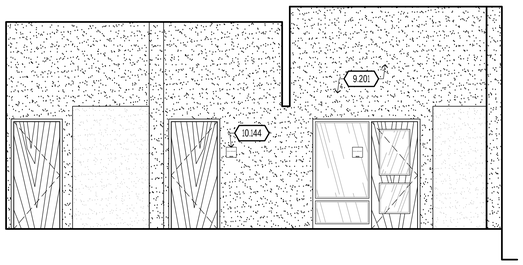
4 A631 GALLERY / LOBBY
SCALE: 1/4" = 1'-0"



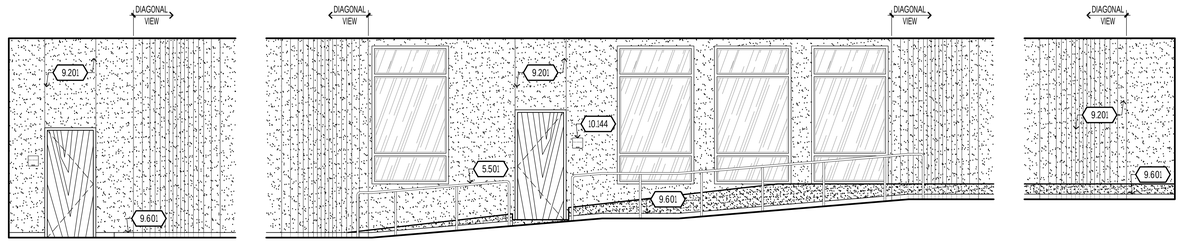
6 A631 SEATING
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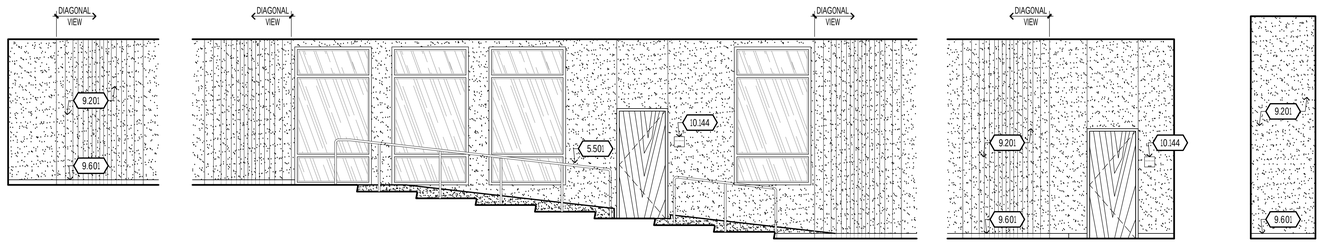
5 A631 STAGE
SCALE: 1/4" = 1'-0"







7 A631 SEATING
SCALE: 1/4" = 1'-0"



10 A631 SEATING
SCALE: 1/4" = 1'-0"

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

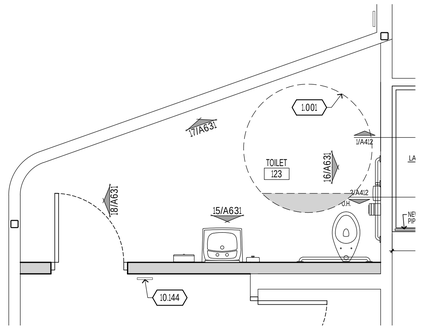
Date: 2/1/2025 Scale: VARIES
Drawn by: M.H. Checked by: MK
Revisions:

Title: INTERIOR ELEVATIONS

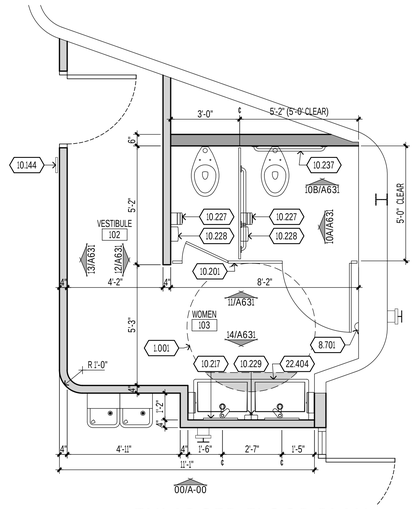
Project No.: NMSU2023-01

A601

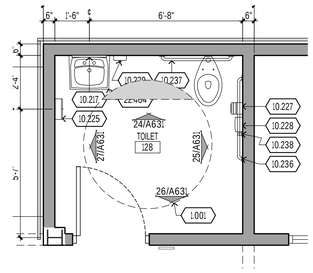
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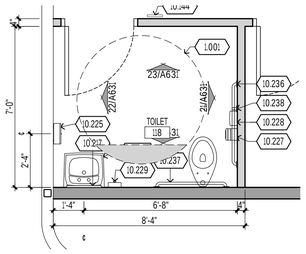
2 A631 ENLARGED FLOOR PLAN
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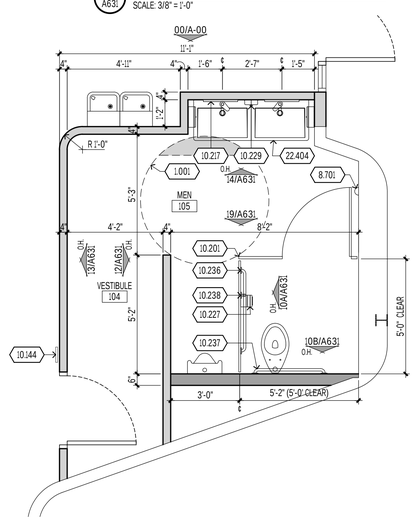
1 A631 ENLARGED FLOOR PLAN
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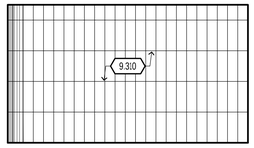
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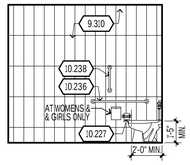
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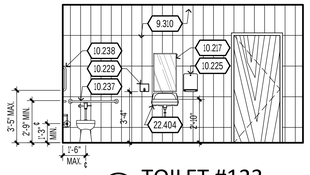
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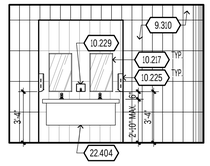
17 A631 TOILET #123
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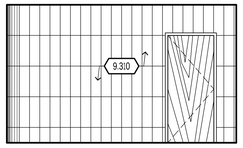
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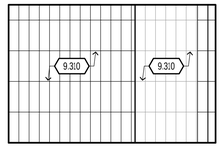
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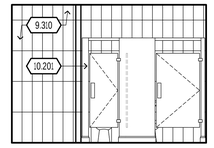
14 A631 WOMEN #103
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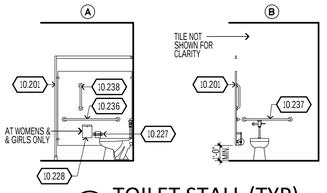
13 A631 WOMEN #103
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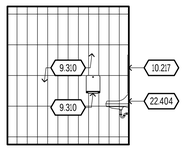
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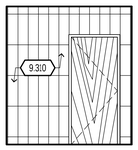
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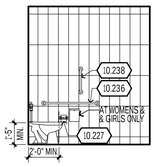
10 A631 TOILET STALL (TYP)
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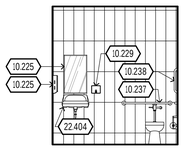
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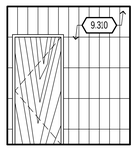
26 A631 TOILET #128
SCALE: 1/4" = 1'-0"



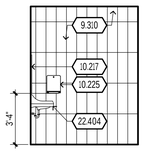
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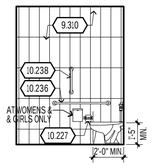
24 A631 TOILET #128
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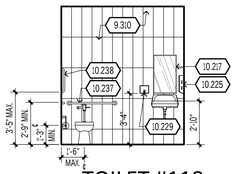
23 A631 TOILET #118
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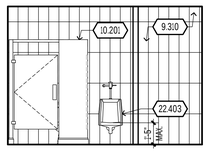
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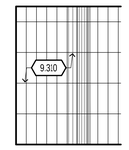
21 A631 TOILET #118
SCALE: 1/4" = 1'-0"



20 A631 TOILET #118
SCALE: 1/4" = 1'-0"



19 A631 MEN #105
SCALE: 1/4" = 1'-0"



18 A631 TOILET #123
SCALE: 1/4" = 1'-0"

KEYED NOTES

10.001	ADA CIRCULAR TURNING RADIUS 67" MIN. PER A.N.S.I SEE SHEET G111 FOR REFERENCE ONLY.
10.144	WALL SIGNAGE 8" x 8". NINE INCHES FROM DOOR FRAME TO CENTER OF SIGN. PROVIDE MATCHING COLOR BLANK SIGN ON THE BACKSIDE OF WALL SIGN AT GLASS LOCATIONS. SEE DOOR SCHEDULE FOR HEIGHT.
10.201	TOILET PARTITION AS SPECIFIED. FLOOR MOUNTED OVER HEAD BRACED.
10.217	MIRROR 18"W x 30"H.
10.225	PAPER TOWEL DISPENSER. N.I.C. OWNER PROVIDED, CONTRACTOR INSTALLED.
10.227	TOILET DISPENSER. ONE AT EACH TOILET N.I.C. OWNER PROVIDED, CONTRACTOR INSTALLED.
10.228	SANITARY NAPKIN DISPOSAL. ONE IN EACH STALL AT GIRL'S ONLY N.I.C OWNER PROVIDED, CONTRACTOR INSTALLED.
10.236	GRAB BAR 42" LONG (HORIZONTAL). LOCATE 12" FROM BACK WALL. SEE SHEET G111.
10.237	GRAB BAR 36" LONG (REAR). LOCATE 6" (MAX) FROM SIDE WALL. SEE SHEET G111.
10.238	GRAB BAR 18" LONG (VERTICAL). LOCATE 41" (MAX) ABOVE FLOOR & CENTER LINE OF BAR 41" (MAX) FROM BACK WALL. SEE SHEET G111.
22.403	WALL HUNG URINAL. SEE PLUMBING DRAWINGS.
22.404	WALL HUNG LAVATORY. SEE PLUMBING DRAWINGS.

GENERAL NOTES

1. REFER TO G-SHEETS FOR ADA REQUIREMENTS.

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 2/1/2025 | Scale: VARIES
Drawn by: M.H. | Checked by: MK
Revisions:

Title: ENLARGED FP & INTERIOR ELEVATIONS

Project No.: NMSU2023-01

A631

NMSU2023-01 A60/+A603 Int Elev.dwg

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ACU-1	EQUIPMENT DESIGNATION		FLEXIBLE DUCTWORK.
	HVAC EQUIPMENT		RIGID DUCTWORK.
	ROOF MOUNTED EXHAUST FAN.		DUCT TRANSITION.
	CEILING MOUNT EXHAUST FAN.		SUPPLY AIR DUCT UP.
			RETURN AIR DUCT UP.
VD	VOLUME DAMPER.		EXHAUST AIR DUCT UP.
FD	FIRE DAMPER.		SUPPLY DUCT DOWN.
T	THERMOSTAT.		RETURN DUCT DOWN.
C	CONTROL SWITCH.		EXHAUST DUCT DOWN.
1	KEYED NOTES		SIDEWALL SUPPLY AIR OUTLET
ACU	AIR CONDITIONING UNIT		SIDEWALL RETURN OR EXHAUST AIR OUTLET
CU	CONDENSING UNIT		CEILING DIFFUSER WITH FLEXIBLE DUCT
AH	AIR HANDLING UNIT		CEILING RETURN OR EXHAUST GRILLE.
CEF	CABINET STYLE EXHAUST FAN		LONG RADIUS ELBOW WITH OUT VANES.
EF	EXHAUST FAN		
EUH	ELECTRIC UNIT HEATER		
MAU	MAKE-UP AIR UNIT		
KH	KITCHEN HOOD		
DAC	DOOR AIR CURTAIN		

2021 I.E.C.C COMPLIANCE CERTIFICATE

PROJECT INFORMATION:

PROJECT TYPE: RENOVATION
PROJECT TITLE: ROHOVEC THEATER BUILDING ENVELOPE REPAIR & REROOF – 2023
NEW MEXICO STATE UNIVERSITY – ALAMOGORDO CAMPUS

GENERAL INFORMATION:

BUILDING LOCATION (FOR WEATHER DATA): 2600 NORTH SCENIC DRIVE ALAMOGORDO, NEW MEXICO 88310
CLIMATE ZONE: 3B

COMPLIANCE STATEMENT:

WE THE OFFICE OF RBM ENGINEERING INC. ACKNOWLEDGE THE REQUIREMENTS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND HAVE INCORPORATED THE FOLLOWING HVAC REQUIREMENTS INTO THE DESIGN OF THE "ROHOVEC THEATER BUILDING ENVELOPE REPAIR & REROOF – 2023
NEW MEXICO STATE UNIVERSITY – ALAMOGORDO CAMPUS" PROJECT. DATE: OCTOBER 2024.

SECTION C302.1 "INTERIOR DESIGN CONDITIONS" – THE INTERIOR DESIGN TEMPERATURES USED FOR HEATING AND COOLING LOAD CALCULATIONS SHALL BE A MAXIMUM OF 72'F (22'C) FOR HEATING AND MINIMUM OF 75'F (24'C) FOR COOLING.

"GENERAL" – MECHANICAL SYSTEMS AND EQUIPMENT SERVING THE BUILDING HEATING, COOLING OR VENTILATING NEEDS SHALL COMPLY WITH SECTION C403.2 AND SECTIONS C403.3 THROUGH C403.14 AS APPLICABLE.

"CALCULATION OF HEATING AND COOLING LOADS" – DESIGN LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED N THE ASHRAE/ACCA STANDARD 183. ** LOAD CALCULATIONS WERE COMPLETED USING "TRANE – TRACE 700 HVAC LOAD DESIGN AND ANALYSIS SOFTWARE" **

"EQUIPMENT AND SYSTEM SIZING" – HEATING AND COOLING EQUIPMENT AND SYSTEMS CAPACITY SHALL NOT EXCEED THE LOADS CALCULATED IN ACCORDANCE WITH SECTION C403.1.1.

"HVAC SYSTEM COMPLETION" – PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE OF SYSTEM COMPLETION IN ACCORDANCE WITH SECTIONS C408.

"MANUALS" – THE CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL CONTRACTOR.

COMPLIANCE SIGNATURE:

ROCKY QUINTANA – DESIGNER	Rocky Quintana	10.30.24
NAME – TITLE	SIGNATURE	DATE

DUCT DESIGN METHOD

PROJECT INFORMATION:

PROJECT TITLE: ROHOVEC THEATER BUILDING ENVELOPE REPAIR & REROOF – 2023
NEW MEXICO STATE UNIVERSITY – ALAMOGORDO CAMPUS

GENERAL INFORMATION:

BUILDING LOCATION (FOR WEATHER DATA): 2600 NORTH SCENIC DRIVE ALAMOGORDO, NEW MEXICO 88310
CLIMATE ZONE: 3B

METHOLOGY STATEMENT:

THE FOLLOWING – EQUAL FRICTION METHOD (EFM) IS THE CHOSEN DUCT DESIGN & CALCULATION METHOD USED IN SIZING ALL HVAC DX DUCTWORK FOR THE PROJECT. THE EFM IS USED FOR LOW-PRESSURE SYSTEMS FOUND IN COMMERCIAL BUILDINGS AND/IS WHAT IS RECOMMENDED BY THIS OFFICE (RBM ENGINEEERING, INC.).

HVAC GENERAL NOTES:

A. COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCE, RULES AND REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH:
- NM COMMERCIAL BUILDING CODE WITH INTERNATIONAL BUILDING CODE (IBC 2021)
- NM PLUMBING CODE WITH UNIFORM PLUMBING CODE (UPC 2021)
- NM MECHANICAL CODE WITH UNIFORM MECHANICAL CODE (UMC 2021)
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2021)
- INTERNATIONAL FUEL GAS CODE (IFGC 2009)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI 2003)
- NFPA 101 LIFE SAFETY CODE (2000)

B. ALL MECHANICAL WORK MUST BE COORDINATED WITH ARCHITECT, STRUCTURAL, AND ELECTRICAL PRIOR TO INSTALLATION.

C. ALL BRANCH DUCTS SHALL BE FITTED WITH BALANCING DAMPERS. WHERE RADIUS FITTINGS WILL NOT FIT, TURNING VANES SHALL BE PROVIDED IN ALL SQUARE FITTINGS.

D. TEST AND BALANCE ALL NEW SYSTEMS SHOWN ON PLANS PER NEBB STANDARDS.

E. DUCTWORK TO BE GALVANIZED STEEL SHEETS IN ACCORDANCE WITH "ASHRAE GUIDE AND SMACNA STANDARDS."

F. NEW DUCTWORK SHOWN SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FEET IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. FLEXIBLE AND OTHER FACTORY MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

G. SEAL ALL DUCT JOINTS WITH HIGH PRESSURE DUCT SEALER OR HARD CAST.

H. INSULATE ALL NEW SUPPLY & RETURN (ACU) DUCTWORK WITH 2.5" TYPE 75 FOIL FACED DUCT WRAP. INSTALLED R-6.

I. ALL EXPOSED SUPPLY DUCTWORK TO BE DOUBLE WALL AND INSULATED 1.5" INTERNAL MAT FACED DUCT LINER FOR INSULATING & ACOUSTICS IN ALL UNITS. LINER SHALL BE TREATED WITH AN EPA REGISTERED ANTI-MICROBIAL AGENT. DUCTWORK TO BE FIELD PAINTED BY MECHANICAL CONTRACTOR.

J. ALL EXTERIOR DUCTWORK (SUPPLY/RETURN) TO BE INSULATED AND PROTECTED. PROVIDE WITH DUCTWRAP AND INSTALL ALUMINUM JACKET TO DUCTWORK. INSTALLED R-8.

K. ALL NEW SUPPLY AND RETURN DUCTWORK TO HAVE 1.5" INTERNAL MAT FACED DUCT LINER AND DUCTWRAP FOR INSULATING & ACOUSTICS IN ALL UNITS. LINER SHALL BE TREATED WITH AN EPA REGISTERED ANTI-MICROBIAL AGENT. INSTALL METAL NOSING ON EDGE OF DUCT LINER FACING TOWARDS AIRSTREAM.

L. ALL NEW SUPPLY AND RETURN DUCT RISER FROM ROOF MOUNTED AIR CONDITIONING UNITS ARE TO HAVE 1.5" INTERNAL MAT FACED DUCT LINER AND DUCTWRAP FOR INSULATING & ACOUSTICS IN ALL UNITS. LINER SHALL BE TREATED WITH AN EPA REGISTERED ANTI-MICROBIAL AGENT. SUPPLY AND RETURN DUCT RISERS TO BE CONSTRUCTED OF 22 GAUGE SHEET METAL.

M. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.

N. EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY CEILING TYPES FOR AIR DISTRIBUTION PRIOR PRIOR TO ORDERING.

O. CONTRACTOR TO VERIFY LOCATION OF ALL AIR EQUIPMENT SO THAT NO INTERFERENCES ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH THE STRUCTURAL ELEMENTS.

P. GUARDS SHALL BE PROVIDED WHERE EQUIPMENT THAT REQUIRE SERVICE ARE LOCATED WITHIN 10' OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30" ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL EXTEND NOT LESS THAN 30" BEYOND EACH END OF SUCH APPLIANCE, EQUIPMENT, FAN OR COMPONENT AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THAN 42" ABOVE THE ELEVATED SURFACE ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21" SPHERE.

Q. PACKAGED AIR CONDITIONING EQUIPMENT (ACU'S) INSTALLED ON THE ROOF SHALL BE PROVIDED WITH FACTORY CURB. INSTALLATION OF CURB TO FOLLOW MANUFACTURER'S GUIDELINES AND SHALL ALSO INCLUDE: 10" (MIN) OF KRAFT-FACED THERMAL BATT INSULATION PLACED INSIDE CURB BETWEEN THE UNIT & ROOF, AND PROVIDE BETWEEN FACTORY CURB & ROOF WITH 23/32" TREATED OSB SHEATHING FOR SOUND ATTENUATION.

R. MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES.

S. ALL SUPPLY AND RETURN DUCTS MUST DROP BETWEEN ROOF JOISTS (VERIFY BEFORE SETTING UNITS).

T. ALL HVAC EQUIPMENT TO BE MOUNTED LEVEL ON EQUIPMENT CURBS UNLESS OTHERWISE NOTED. GROUND MOUNTED EQUIPMENT SHALL BE PROVIDED WITH AN EQUIPMENT PAD.

U. FOLLOW CODE GUIDELINES WHEN LOCATING POSITIONS OF EXHAUST OUTLETS, GAS FIRED EQUIPMENT FLUES, AND OUTSIDE AIR INTAKES. MINIMUM OF 10' AWAY OR 3' ABOVE ALL FRESH AIR INTAKES ON UNITS AND ALL VERTICAL PORTIONS OF BUILDING. REFER TO DRAWINGS FOR LOCATIONS.

V. CONTRACTOR TO SHIM-LEVEL A/C UNITS.

W. MECHANICAL CONTRACTOR TO INSTALL NEW FILTERS IN ALL APPLICABLE HVAC UNITS AT BENEFICIAL OCCUPANCY PLUS ONE SET OF SPARE FILTERS, PLUS ONE SET OF TAB USE FILTERS (THREE MERV-13 FILTERS TOTAL.)

X. ALL METAL FLUES AND/OR CHIMNEYS FROM FOSSIL FUEL FIRED EQUIPMENT MOUNTED INSIDE THE BUILDING SHALL BE OF CONSTRUCTION. CONSISTENT WITH THE CLASSIFICATION OF THAT APPLIANCE. COORDINATE WITH CODE AND MANUFACTURERS RECOMMENDATIONS.

Y. ALL EQUIPMENT SHALL BE SELECTED AND EQUIPPED FOR OPERATION AT SITE ALTITUDE. DEMONSTRATE ALTITUDE CORRECTIONS IN EQUIPMENT SUBMITTALS. (4,000 FT.)

Z. INSULATE ALL CONDENSATE DRAIN PIPING BELOW ROOF. REFER TO SPECIFICATION FOR MORE INFORMATION.

AA. ALL HVAC UNITS SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND DUCT FLEX CONNECTORS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

AB. PROVIDE BACK DRAFT DAMPERS AND BIRD SCREENS IN ALL EXHAUST SYSTEMS.

AC. FABRICATION OF DUCTWORK SHALL BE BASED ON FIELD MEASUREMENTS. ADJUSTMENTS TO DUCT SIZES AND LAYOUT SHALL BE COORDINATED WITH THE ENGINEER.

AD. ALL DEVIATIONS FROM SPECIFIED EQUIPMENT AND MATERIALS MUST BE APPROVED BY ARCHITECT/ENGINEER.

AE. SEE SUBSTITUTION LIMITATIONS AND PROCEDURES IN SPECIFICATION SECTION 01 6000-PROJECT REQUIREMENTS.

AF. ILLUSTRATIONS SHOWN GENERALLY PROVIDED TO CONVEY CONCEPT AND ARE NOT INTENDED FOR AND DO NOT INCLUDE ALL DETAILS FOR ANY SPECIFIC INSTALLATION. ALL INSTALLATIONS MUST COMPLY WITH ALL APPLICABLE CODES.

AG. ALL THERMOSTATS AND SENSORS SHALL BE PROVIDED WITH AN OWNER APPROVED COVER.

AH. THERMOSTATS SHALL BE CALIBRATED DURING TEST AND BALANCE AND SHALL BE DOCUMENTED IN THE TEST AND BALANCE REPORT.

AI. ALL EQUIPMENT AND SUBSYSTEM SHALL BE PROVIDED WITH ISOLATION VALVES. PROVIDE UNIONS AS REQUIRED FOR REMOVAL OF MAJOR VALVES, CONTROL VALVES, AND EQUIPMENT WITHOUT CUTTING PIPE.

AJ. VERIFY ACCESS REQUIREMENTS OF ALL EQUIPMENT PRIOR TO FABRICATING DUCTWORK OR PIPING. ANY ITEM INTERFERING WITH UNIT ACCESSED SHALL BE MOVED AT THE CONTRACTORS EXPENSES.

AK. PROVIDE ACCESS PANELS OR DOORS IN AN ACCESSIBLE CEILING AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING. REFER TO PLANS FOR LOCATIONS.

AL. "CALL BEFORE YOU DIG" REQUIREMENTS ON THE PLUMBING DRAWINGS SHALL APPLY TO HVAC RELATED PIPING SYSTEM.

GENERAL NOTES:

- IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ITEMS ON THESE PLANS WITH ANY/ALL SUB-CONTRACTORS. ITEMS LISTED ON PLANS SHALL BE PROVIDED & INSTALLED BY GENERAL CONTRACTOR AND/OR SUBCONTRACTOR. ITEMS LISTED AS "BY OTHERS" DOES NOT MEAN BY OWNER.
- CONTRACTOR FAILURE TO NOT FOLLOW ALL LISTED NOTES AND/OR MEET THE REQUIREMENTS OF CODE REQUIREMENTS AND/OR MANUFACTURERS INSTALLATION GUIDELINES CAN AND MAY RESULT IN ADDITIONAL FEES/SURCHARGES TO THE CONTRACTOR(S) BY/TO OWNER-ARCHITECT-ENGINEER. IF CONTRACTOR(S) HAVE ANY QUESTIONS AND/OR VALUE ENGINEERING ITEMS THAT WOULD LIKE TO BE INCORPORATED INTO PLANS, SUCH ITEMS SHALL BE FORWARDED TO ARCHITECT FOR REVIEW AND ARE REQUIRED TO BE ISSUED PRIOR TO ANY BIDDING OR PRICE-QUOTE DEADLINES. ANY DISCREPANCIES AFTER AWARD/DURING CONSTRUCTION WILL RESULT THAT THE CONTRACTOR FOLLOW THE MORE STRINGENT INSTALLATION METHOD AND/OR MATERIAL TYPES AND SIZES, ETC., ETC.

DOCUMENT GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC. THEY ARE TO BE USED AS A GENERAL GUIDE AND ARE NOT INTENDED TO BE SPECIFIC INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL CONSTRUCT ACCORDING TO CODE AND/OR MANUFACTURERS INSTALLATION INSTRUCTIONS.

B. DRAWINGS ARE BASED UPON ORIGINAL BUILDING PLANS AND/OR FIELD OBSERVATIONS. CONTRACTOR MUST FIELD VERIFY EXACT LOCATIONS AND ROUTING OF: SEWER, GAS, AND WATER LINES.

C. CONTRACTOR SHALL EXPECT TO MAKE SOME ROUTING ADJUSTMENTS DURING THE COURSE OF CONSTRUCTION. COORDINATE CHANGES WITH ARCHITECT AND KEEP RECORD OF CHANGES FOR FUTURE USE.

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75% CONSTRUCTION DOCUMENTS
PROGRESS SET 02/11/2025

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

Title: HVAC GENERAL NOTES AND LEGEND

Project No: NMSU2023-01

M001

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AIR CONDITIONING UNIT SCHEDULE

Mark	Area Served	Manufacturer	Model	Type	Nominal Tons	Design Supply Air Flow	Total Static Pressure	Minimum Outside Air (CFM)	Gross Total Cooling Capacity	Net Total Cooling Capacity	Net Sensible Cooling Capacity	Cooling Entering Dry Bulb Temperature	Cooling Entering Wet Bulb Temperature	Leaving Cooling Coil DB	Ambient Air Temperature	Energy Efficiency Rating	Input Heating Capacity	Fuel	AUXILIARY ELECTRIC HEATING		Compressor 1 (RLA)	Minimum Circuit Ampacity	Maximum Overcurrent Protection	Voltage	Phase	Operating Weight
																			Input Heating (KW)	Output Heating Capacity						
ACU-1	101 GALLERY / LOBBY	TRANE	WHK048	DOWN DISCHARGE	4 Tons	1600	0.64 in-wg	250	44.45 MBh	43.58 MBh	35.40 MBh	80 °F	65 °F	55 °F	105 °F	13.5	30.75 MBh	ELECTRIC	6.0	20.49 MBh	13.80 A	46.00 A	50.0 A	208 V	3	883 lb
ACU-2	106 SEATING	TRANE	WHK072	DOWN DISCHARGE	6 Tons	2400	0.611 in-wg	1000	66.24 MBh	64.95 MBh	45.82 MBh	80 °F	65 °F	52 °F	105 °F	16.3	49.27 MBh	ELECTRIC	9.0	30.74 MBh	14.80 A	66.00 A	70.0 A	208 V	3	931 lb
ACU-3	106 SEATING	TRANE	WHK072	DOWN DISCHARGE	6 Tons	2400	0.611 in-wg	1000	66.24 MBh	64.95 MBh	45.82 MBh	80 °F	65 °F	52 °F	105 °F	16.3	49.27 MBh	ELECTRIC	9.0	30.74 MBh	14.80 A	66.00 A	70.0 A	208 V	3	931 lb
ACU-4	122 DRESSING ROOM #1	TRANE	WHK036	DOWN DISCHARGE	3 Tons	1200	0.62 in-wg	300	24.16 MBh	23.45 MBh	22.14 MBh	80 °F	65 °F	58 °F	105 °F	13.5	15.94 MBh	ELECTRIC	6.0	20.49 MBh	10.20 A	41.00 A	45.0 A	208 V	3	855 lb
ACU-5	109 STAGE	TRANE	WHK048	DOWN DISCHARGE	4 Tons	1600	0.64 in-wg	520	44.45 MBh	43.58 MBh	35.40 MBh	80 °F	65 °F	55 °F	105 °F	13.5	30.75 MBh	ELECTRIC	6.0	20.49 MBh	13.80 A	46.00 A	50.0 A	208 V	3	883 lb
ACU-6	116 DRESSING ROOM #2	TRANE	WHK048	DOWN DISCHARGE	4 Tons	1600	0.64 in-wg	520	44.45 MBh	43.58 MBh	35.40 MBh	80 °F	65 °F	55 °F	105 °F	13.5	30.75 MBh	ELECTRIC	6.0	20.49 MBh	13.80 A	46.00 A	50.0 A	208 V	3	883 lb

NOTES:

1. PROVIDE WITH A FACTORY 16" ROOF CURB, LOUVERED HAIL GUARD, MERV-13 FILTERS, ELECTRICAL DISCONNECT OR CIRCUIT BREAKER; UNPOWERED CONVINIENCE OUTLET, AUXILIARY CONDENSATE SAFETY SWITCH INSTALLED IN DRAIN PAN AND WIRED TO THERMOSTAT CIRCUIT.
2. PROVIDE UNITS WITH SPACE CO2 MONITOR AND DEMAND CONTROL VENTILATION MODULE FOR OUTSIDE AIR MODULATION.
3. PROVIDE ALL UNITS WITH 100% OUTSIDE AIR DAMPER WITH ENTHALPY ECONOMIZER.
4. PROVIDE ALL UNITS 5 TONS AND BELOW WITH BAROMETRIC RELIEF AND PROVIDE ALL UNITS 6 TONS AND ABOVE WITH POWER EXHAUST WITH ADJUSTABLE MINIMUM OUTSIDE AIR POSITION SETTING.
5. ALL UNITS 2,000 CFM AND ABOVE ARE TO HAVE A SMOKE DETECTOR (SD) TO SHUT-OFF UNIT PER CODE. PROVIDE DETECTOR IN MAIN SUPPLY DUCT. REFER TO ELECTRICAL DRAWINGS AND SPECIAL SYSTEMS PLANS FOR FURTHER INFORMATION. SPECIAL SYSTEMS CONTRACTOR TO PROVIDE AND WIRE SMOKE DETECTOR , MECHANICAL CONTRACTOR TO MOUNT SMOKE DETECTOR .
6. DDC CONTROLS CONTRACTOR TO PROVIDE DDC PROGRAMMABLE CONTROLLER FOR UNITS AND ROOM SENSOR.

CABINET EXHAUST FAN SCHEDULE

Mark	Area Served	Manufacturer	Model	Air Flow Rate CFM	Static Pressure	Electrical Load	Voltage	Phase	Sones	Unit Weight	Note
CEF-1	103 WOMENS	GREENHECK	SP-A250	140	0.50 in-wg	83 W	120 V	1	4.0	35 lb	1, 2, 3
CEF-2	105 MENS	GREENHECK	SP-A250	140	0.50 in-wg	83 W	120 V	1	4.0	35 lb	1, 2, 3
CEF-3	112 JANITORS	GREENHECK	SP-A200	70	0.50 in-wg	29 W	120 V	1	3.0	35 lb	1, 2, 3
CEF-4	118 RESTROOM	GREENHECK	SP-A200	70	0.50 in-wg	29 W	120 V	1	3.0	35 lb	1, 2, 3
CEF-5	123 RESTROOM	GREENHECK	SP-A250	140	0.50 in-wg	83 W	120 V	1	4.0	35 lb	1, 2, 3
CEF-6	RESTROOM	GREENHECK	SP-A200	70	0.50 in-wg	29 W	120 V	1	3.0	35 lb	1, 2, 3

NOTES:

1. FURNISH FANS WITH ROOF CAP AND CURB.
2. PROVIDE FAN WITH SPEED CONTROLLER FOR AIR FLOW ADJUSTMENT - MOUNT IN CEILING SPACE OR ON FAN HOUSING.
3. WIRE TO LIGHT SWITCH ON WALL.
4. WIRE TO PILOT SWITCH ON WALL.

DIFFUSER SCHEDULE

Type Mark	Manufacturer	Model	Description	Notes
E1	PRICE INDUSTRIES	80 SERIES	EGG CRATE EXHAUST GRILLE	24"x24" BORDER, 24"X24" FACE OPENING, LAY-IN OR SURFACE MOUNT, ALUMINUM FRAME, 1/2"x1/2"x1/2" GRID, WHITE COLOR.
R1	PRICE INDUSTRIES	80 SERIES	EGG CRATE RETURN GRILLE	24"x24" BORDER, 24"X24" FACE OPENING, LAY-IN OR SURFACE MOUNT, ALUMINUM FRAME, 1/2"x1/2"x1/2" GRID, WHITE COLOR.
R2	PRICE INDUSTRIES	630	LOUVERED FACE RETURN GRILLE	SINGLE DEFLECTION LOUVERED BLADE, ALUMINUM CONSTRUCTION, SURFACE MOUNT FRAME, STANDARD WHITE BAKED ENAMEL FINISH,
S1	PRICE INDUSTRIES	ASCD	4-WAY SUPPLY SQUARE CONE DIFFUSER	STAMPED FOUR WAY DIFFUSER, ALUMINUM CONSTRUCTION, 24"x24" SURFACE MOUNT FRAME, ROUND NECK, STANDARD WHITE BAKED ENAMEL FINISH.
S2	PRICE INDUSTRIES	ARCD	ROUND CIRCULAR DIFFUSER	ROUND FACE, THREE POSITION ADJUSTABLE, ALUMINUM CONSTRUCTION, DUCT MOUNTED, ROUND NECK, STANDARD WHITE BAKED ENAMEL FINISH.
S3	PRICE INDUSTRIES	AHCD1	HIGH CAPACITY DRUM LOUVER DIFFUSER	ADJUSTABLE VANES WITHIN A ROTABLE DRUM WITH DETENT MECHANISM FOR ANGLE POSITIONING OF DRUM AT 30 DEGREES, ALUMINUM CONSTRUCTION, SURFACE MOUNT, WHITE POWDER COAT.
S4	PRICE INDUSTRIES	SDS	LINEAR SLOT DIFFUSER	48" LINEAR SLOT DIFFUSER WITH 48" LONG SDB PLENUM BOX. 2 SLOTS, 1" WIDE SLOTS, FREELY SUSPENDED MOUNTING STYLE.
S5	PRICE INDUSTRIES	SDS	LINEAR SLOT DIFFUSER	48" LINEAR SLOT DIFFUSER WITH 48" LONG SDB PLENUM BOX. 4 SLOTS, 1" WIDE SLOTS, FREELY SUSPENDED MOUNTING STYLE.
S6	PRICE INDUSTRIES	22 DAL	AIRFOIL LOUVERED FACE SUPPLY GRILLE	45 DEGREE DOUBLE DEFLECTION AIRFOIL BLADE, 3/4" SPACING, ALUMINUM CONSTRUCTION, SURFACE MOUNT, WHITE COLOR. PROVIDE WITH OBD'S.

MINI SPLIT SYSTEM COOLING ONLY UNIT SCHEDULE

CONDENSING UNIT SCHEDULE

Mark	Manufacturer	Model	Associated Indoor Unit	SEER	Total Cooling Capacity	Outdoor Air Dry Bulb Temperature	Cooling Entering Wet Bulb Temperature	Voltage	Phase	Minimum Circuit Ampacity	Maximum Overcurrent Protection	Weight	Notes
CU-1	MITSUBISHI ELECTRIC	PUY-A24NHA7	AH-1	15	24000.0 Btu/h	105 °F	64 °F	208 V	1	19.00 A	30.0 A	151 lb	PROVIDE FOR LOW AMBIENT OPERATION BELOW 20°, REFRIGERANT PIPING, HAIL GUARD AND WIND BAFFLE.
CU-2	MITSUBISHI ELECTRIC	PUY-A24NHA7	AH-2	15	24000.0 Btu/h	105 °F	64 °F	208 V	1	19.00 A	30.0 A	151 lb	

EVAPORATOR UNIT SCHEDULE

Mark	Manufacturer	Model	Associated Outdoor Unit	Total Cooling Capacity	Airflow Rate_Low (cfm)	Airflow Rate_High (cfm)	Cooling Entering Dry Bulb Temperature	Cooling Entering Wet Bulb Temperature	Voltage	Phase	Minimum Circuit Ampacity	Maximum Overcurrent Protection	Weight	Notes
AH-1	MITSUBISHI ELECTRIC	PKA-A24KA7	CU-1	24000.0 Btu/h	570	700	80 °F	65 °F	208 V	1	1.00 A	30.0 A	46 lb	HIGH WALL MOUNT, LOUVERED SUPPLY, CLEANABLE FILTER, WALL THERMOSTAT AND CONDENSATE PUMP.
AH-2	MITSUBISHI ELECTRIC	PKA-A24KA7	CU-2	24000.0 Btu/h	570	700	80 °F	65 °F	208 V	1	1.00 A	30.0 A	46 lb	

ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	SIZE	TOTAL HEATING CAPACITY	ELECTRIC		WEIGHT	REMARKS
				VOLTS	PHASE		
EH-1	REZNOR EGEB-AK15-3KW	3 KW	10,000 Btu/h	208	1	40 lbs	WALL BRACKET, WALL MOUNTED THERMOSTAT AND VIBRATION ISOLATORS.

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PROGRESS SET 02/11/2025

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

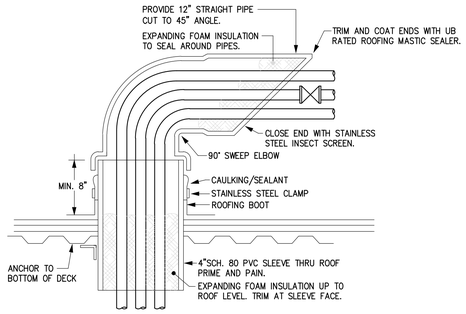
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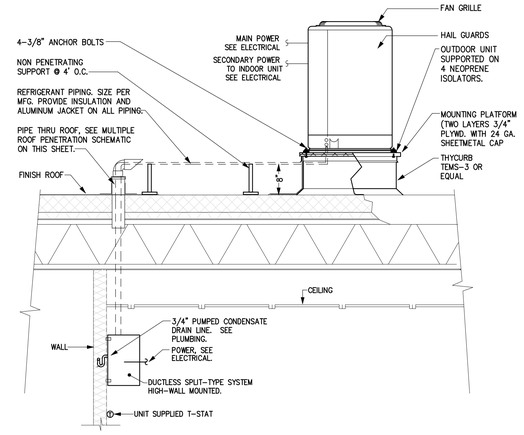
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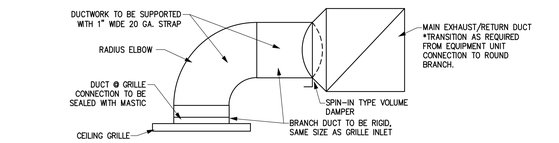
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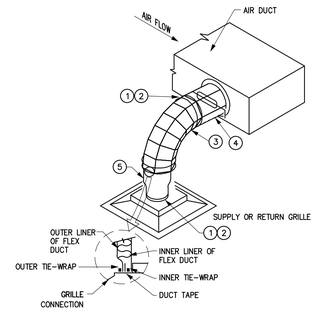
10 M021 **MULTIPLE ROOF PENETRATION SCHEMATIC**
SCALE: NONE



9 M021 **DUCTLESS SPLIT SYSTEM INSTALLATION SCHEMATIC**
SCALE: NONE



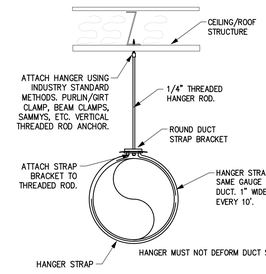
8 M021 **RETURN/EXHAUST @ END CONNECTION SCHEMATIC**
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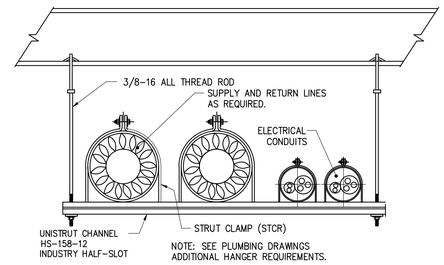
NOTES:

1. INNER LINER OF FLEX DUCT TO BE STRAPPED (WITH PLASTIC TIE-WRAPS) TO DIFFUSER OR DUCT END FIRST THEN DUCT TAPED OVER STRAPS. ALL CONNECTIONS TO BE AIR TIGHT.
2. PULL FLEX DUCT'S INSULATION AND OUTER LINER OVER INNER LINER UP TO DIFFUSER NECK THEN STRAP (WITH PLASTIC TIE WRAPS) TIGHTLY.
3. RUN A MAXIMUM OF 5 LINEAR FEET OF FLEX DUCT FOR ALL AIR INLETS AND OUTLETS AS SHOWN. INSTALL WITH EVEN RADIUS BENDS TO ALLOW FULL FLOW WITH NO RESTRICTIONS. RADIUS OF ELBOW TO BE 2 TIMES THE DUCT DIAMETER. SUPPORT FROM STRUCTURE WITH NO RESTRICTIONS.
4. BELL-MOUTH OR SPIN-IN FITTING SHOWN IN THIS VIEW. EXTENDED BRANCHES AND OTHER DUCT ARRANGEMENTS ALSO APPLY. INSULATION NOT SHOWN.
5. PROVIDE TRANSITION AS NECESSARY TO GET FROM FULL FLEX DUCT SIZE TO AVAILABLE UNIT SUPPLIED NECK ADAPTER. INSULATION NOT SHOWN.

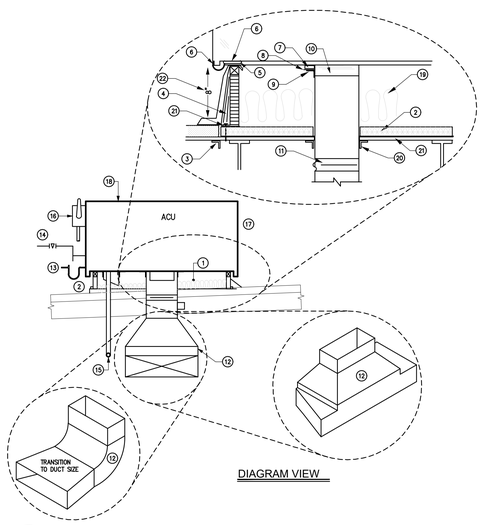
5 M021 **SUPPLY/RETURN GRILLE CONNECTION SCHEMATIC**
SCALE: NONE



6 M021 **DUCT HANGER ATTACHMENTS**
SCALE: NONE



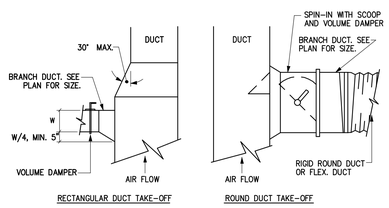
7 M021 **PIPE HANGER SCHEMATIC**
SCALE: NONE



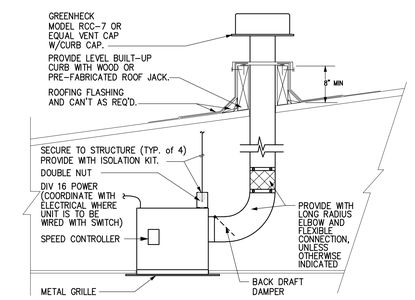
DETAIL KEYED NOTES

1. FACTORY ROOF CURB. ANCHOR CURB TO ROOF DECK WITH GALVANIZED #10 TEK SCREWS @ 12" O.C. OR LESS. SECURE CURB THRU OBS SHEATHING.
2. PROVIDE 23/32" TREATED OSB SHEATHING FOR SOUND TRANSMISSION. ENTIRE FOOTPRINT OF CURB (AND NAILOR). CUT OUT FOR DUCT OPENINGS.
3. INSTALL STEEL ANGLE-IRON UNDER METAL ROOF DECK BELOW ROOF CURB AROUND ENTIRE PERIMETER OF UNIT. EXTEND TO ADJACENT BAR JOISTS. DEFER TO STRUCTURAL DRAWINGS WHEN AVAILABLE.
4. ROOF SYSTEM AND FLASHING WATER-TIGHT ALL AROUND CURB AND EXTEND OVER CURB.
5. INSTALL SEALING GASKET CONTINUOUS AROUND BASE OF CURB.
6. ATTACH AIR CONDITIONING UNIT TO CURB PER MANUFACTURER'S INSTRUCTIONS.
7. INSTALL SEALING GASKET CONTINUOUS AROUND DUCT FLANGE TO ACHIEVE AN AIR-TIGHT SEAL BETWEEN UNIT CONNECTION AND DUCTWORK.
8. DUCT FLANGE TO TURN OUT OVER DUCT CONNECTION FRAME. SECURE TO TOP OF CURB WITH SCREW(S).
9. DUCT CONNECTION FRAME INTEGRAL TO ROOF CURB.
10. ACU SUPPLY OR RETURN AIR OPENING.
11. DUCT FLEX CONNECTOR FOR BOTH SUPPLY & RETURN.
12. TRANSITION FROM FULL SIZE OF UNIT CONNECTION TO FULL DUCT WIDTH FOR DUCT IN 2 DIRECTIONS. FULL SIZE RADIUS ELBOW FOR DUCT IN 1 DIRECTION.
13. SEE CONDENSATE DRAIN TRAP SCHEMATIC. (SEE PLUMBING) ALL COPPER.
14. SEE GAS PIPING CONNECTION SCHEMATIC. (SEE PLUMBING)
15. PROVIDE THERMOSTAT AND CONTROL WIRING TO UNIT AS REQUIRED FOR PROPER OPERATION. USE CONDUIT AND PAINT FOR EXPOSED ROUTING. COORDINATE WITH ELECTRICAL. PROVIDE LABELING ON THIS CONNECTION @ 10 FOOT INTERVALS. SEE CONTROLS SCHEMATIC FOR ADDITIONAL INFORMATION
16. UNIT TO BE PROVIDED WITH ELECTRICAL SERVICE DISCONNECT.
17. PROVIDE UNIT WITH LOUVERED HAIL GUARDS.
18. PROVIDE EQUIPMENT LABEL ON NORTH SIDE OF UNIT. COORDINATE WITH ELECTRICIAN FOR UNIVERSAL TAG.
19. PROVIDE 10" ROOF INSULATION ON DECK INSIDE CURB FOR SOUND ATTENUATION. FIBERGLASS ASTM C665 H-30, FACED.
20. INSTALL STEEL ANGLE-IRON AROUND ENTIRE DUCT OPENINGS. EXTEND TO ADJACENT BAR JOISTS. DEFER TO STRUCTURAL DRAWINGS WHEN AVAILABLE.
21. NEW/EXISTING ROOF DECK. EQUIPMENT CURBS TO BE MOUNTED TO DECK AND NOT ALLOWED TO BE MOUNTED/SECURED ABOVE THE FINISH ROOF.
22. FACTORY CURB TO BE MINIMUM 18" TALL TO PROVIDE REQUIRED 8" CLEAR PER ROOFING SPECIFICATION. PROVIDE TALLER CURBS WHEN NECESSARY TO MEET ROOFING STANDARDS.

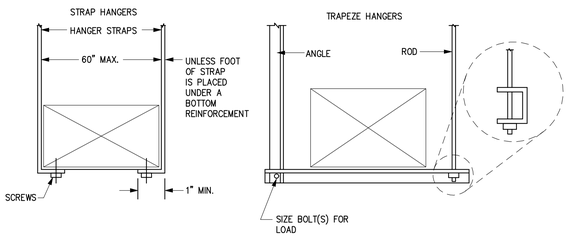
1 M021 **ACU INSTALLATION SCHEMATIC**
SCALE: NONE



2 M021 **DUCT CONNECTION SCHEMATIC**
SCALE: NONE



3 M021 **CEILING EXHAUST FAN SCHEMATIC**
SCALE: NONE



4 M021 **LOWER DUCT HANGER SCHEMATIC**
SCALE: NONE

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75% CONSTRUCTION DOCUMENTS
PROGRESS SET 02/11/2025

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

Title: H/VAC SCHEMATICS

Project No. NMSU2023-01

M021

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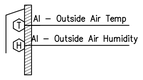
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Outside Air Conditions

Outside Air Conditions:
The controller shall monitor the outside air temperature and humidity and calculate the outside air enthalpy on a continual basis. These values shall be always made available to the system.
Alarm shall be generated as follows:
- Sensor Failure: Sensor reading indicates shorted or disconnected sensor. In the event of a sensor failure, an alternate outside air conditions sensor shall be made available to the system without interruption in sensor readings.

If an OA Temp Sensor cannot be read, a default value of 65°F will be used.
If an OA Humidity Sensor cannot be read, a default value of 50 % will be used.
Outside Air Temperature History:
The controller shall monitor and record the high and low temperature readings for the outside air. These readings shall be recorded on a daily, month-to-date, and year-to-date basis.

	Hardware Points							Software Points				
Point Name	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	Show on Graphic
Outside Air Humidity	x								x		x
Outside Air Temp	x								x		x



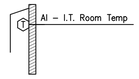
3 M022 OUTSIDE AIR SENSOR SCHEMATIC
SCALE: NONE

IT Room Temperature Sensor/Monitor

Temperature Monitoring:
The controller shall monitor the interior temperature on a continual basis. These values shall be always made available to the system.
Alarm shall be generated as follows:
- Sensor Failure: Sensor reading indicates shorted or disconnected sensor. In the event of a sensor failure.

If a Temp Sensor cannot be read, a default value of 100°F will be used.
Temperature History:
The controller shall monitor and record the high and low temperature readings for the space. These readings shall be recorded on a daily, month-to-date, and year-to-date basis.

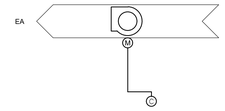
	Hardware Points							Software Points				
Point Name	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	Show on Graphic
IT Room Tempearture	x								x		x



4 M022 I.T. ROOM TEMPERATURE SENSOR SCHEMATIC
SCALE: NONE

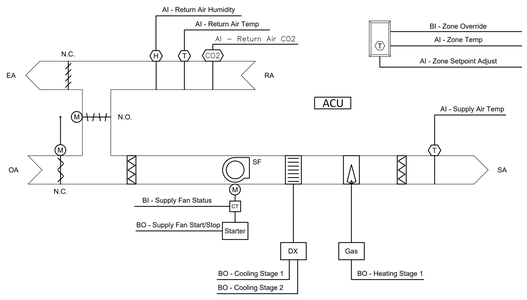
CABINET EXHAUST FANS:

RUN CONDITIONS – ON/OFF:
THE FAN SHALL BE PROVIDED WITH ON/OFF SWITCH MOUNTED ON WALL OR INTERLOCKED WITH ROOM LIGHT SWITCH.



5 M022 CEILING MOUNTED EXHAUST FAN CONTROL SCHEMATIC
SCALE: NONE

	Hardware Points							Software Points			
Point Name	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	Show on Graphic
Prefilter Differential Pressure	x								x		
Return Air Carbon Dioxide PPM									x		x
Return Air Temp	x								x		x
Supply Air Temp	x								x		x
Zone Setpoint Adjust	x										x
Zone Temp	x								x		x
Return Air Smoke Detector			x						x		x
Supply Fan Status			x						x		x
Zone Override			x						x		x
Cooling Stage 1				x					x		x
Cooling Stage 2				x					x		x
Heating Stage 1				x					x		x
Heating Stage 2				x					x		x
Supply Fan Start/Stop				x					x		x
Cooling Setpoint					x				x		x
Heating Setpoint					x				x		x
Return Air Carbon Dioxide PPM Setpoint					x				x		x
Schedule								x			
High Return Air Carbon Dioxide Concentration										x	
High Zone Temp										x	
Low Zone Temp										x	
Prefilter Change Required										x	x
Supply Fan Failure										x	
Economizer fault/failure										x	



1 M022 ROOFTOP ACU CONTROL SCHEMATIC & SEQUENCE - BAROMETRIC RELIEF
SCALE: NONE

Packaged Rooftop Unit w/ CO2 Outside Air Control – Barometric Relief

Run Conditions – Scheduled:
The unit shall run according to a user definable time schedule in the following modes:
- Occupied Mode: The unit shall maintain
- A 75°F (adj.) cooling setpoint
- A 70°F (adj.) heating setpoint.

- Unoccupied Mode (night setback): The unit shall maintain
- A 85°F (adj.) cooling setpoint.
- A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:
- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Demand Limiting – Zone Setpoint Optimization:
To lower power consumption, the zone setpoints shall automatically relax when the facility power consumption exceeds definable thresholds. The amount of relaxation shall be individually configurable for each zone. The zone setpoints shall automatically return to their previous settings when the facility power consumption drops below the thresholds.
Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.
Zone Optimal Start:
The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.
Zone Unoccupied Override:
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.
Freeze Protection:
The unit shall shut down and generate an alarm upon receiving a freezestat status.
Return Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.
Supply Fan:
The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.

Alarms shall be provided as follows:
- Supply Fan Failure: Commanded on, but the status is off.

Cooling Stages:
The controller shall measure the zone temperature and stage the cooling to maintain its cooling setpoint. Cooling shall be available to cycle during economizer operation.
Gas Heating Stages:
The controller shall measure the zone temperature and stage the heating to maintain its heating setpoint.
Economizer:
The controller shall measure the zone temperature and modulate the economizer damper to maintain a setpoint 2°F less than the zone cooling setpoint. The outside air dampers shall maintain a minimum adjustable position of 20% (adj.) open whenever occupied. Cooling stages shall be available to operate during economizer operation.
Barometric relief damper shall open and close on its own to relieve space pressure.
The economizer shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the outside air enthalpy is less than 28Btu/lb (adj.).
- AND the outside air temperature is less than the return air temperature.
- AND the outside air enthalpy is less than the return air enthalpy.
- AND the supply fan status is on.

The economizer shall close and powered exhaust fan shall cycle off whenever:
- Mixed air temperature drops from 45°F to 40°F (adj.).
- OR on loss of supply fan status.
- OR freezestat (if present) is on.

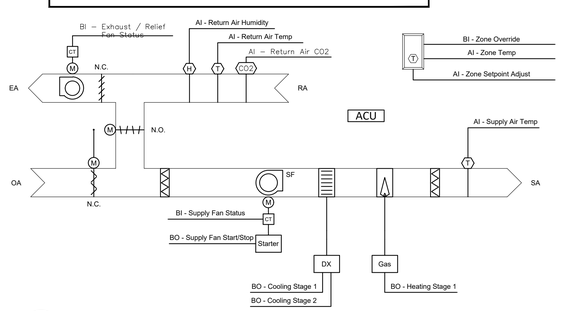
The outside air damper shall close and the return air damper shall open when the unit is off. If Optimal Start Up is available, the mixed air damper shall operate as described in the occupied mode except that the outside air damper shall modulate to fully closed.
Alarm shall be provided: Economizer fault or failure to operate.
Minimum Outside Air Ventilation – Carbon Dioxide (CO2) Control:
When in the occupied mode, the controller shall measure the return air CO2 levels and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damper operation to maintain a CO2 setpoint of 750 ppm (adj.).
Prefilter Differential Pressure Monitor:
The controller shall monitor the differential pressure across the prefilter.
Alarms shall be provided as follows:
- Prefilter Change Required: Prefilter differential pressure exceeds a user definable limit (adj.).

Return Air Carbon Dioxide (CO2) Concentration Monitoring:
The controller shall measure the return air CO2 concentration.
Alarms shall be provided as follows:
- High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 1000ppm (adj.) when in the occupied mode.

Return Air Temperature:
The controller shall monitor the return air temperature and use as required for economizer control (if present).
Alarms shall be provided as follows:
- High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
- Low Return Air Temp: If the return air temperature is less than 45°F (adj.).

Supply Air Temperature:
The controller shall monitor the supply air temperature.
Alarms shall be provided as follows:
- High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
- Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

	Hardware Points							Software Points			
Point Name	AI	AO	BI	BO	AV	BV	Loop	Sched	Trend	Alarm	Show on Graphic
Prefilter Differential Pressure	x								x		
Return Air Carbon Dioxide PPM									x		x
Return Air Temp	x								x		x
Supply Air Temp	x								x		x
Zone Setpoint Adjust	x										x
Zone Temp	x								x		x
Return Air Smoke Detector			x						x		x
Supply Fan Status			x						x		x
Zone Override			x						x		x
Cooling Stage 1				x					x		x
Cooling Stage 2				x					x		x
Heating Stage 1				x					x		x
Heating Stage 2				x					x		x
Supply Fan Start/Stop				x					x		x
Cooling Setpoint			x						x		x
Heating Setpoint			x						x		x
Return Air Carbon Dioxide PPM Setpoint			x						x		x
Schedule								x			
High Return Air Carbon Dioxide Concentration										x	
High Zone Temp										x	
Low Zone Temp										x	
Prefilter Change Required										x	x
Supply Fan Failure										x	
Powered Exhaust/Relief Fans		x									
Economizer fault/failure										x	



2 M022 ROOFTOP ACU CONTROL SCHEMATIC & SEQUENCE - POWERED EXHAUST
SCALE: NONE

Packaged Rooftop Unit w/ CO2 Outside Air Control – Power Exhaust

Run Conditions – Scheduled:
The unit shall run according to a user definable time schedule in the following modes:
- Occupied Mode: The unit shall maintain
- A 75°F (adj.) cooling setpoint
- A 70°F (adj.) heating setpoint.

- Unoccupied Mode (night setback): The unit shall maintain
- A 85°F (adj.) cooling setpoint.
- A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:
- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Demand Limiting – Zone Setpoint Optimization:
To lower power consumption, the zone setpoints shall automatically relax when the facility power consumption exceeds definable thresholds. The amount of relaxation shall be individually configurable for each zone. The zone setpoints shall automatically return to their previous settings when the facility power consumption drops below the thresholds.
Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.
Zone Optimal Start:
The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.
Zone Unoccupied Override:
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.
Freeze Protection:
The unit shall shut down and generate an alarm upon receiving a freezestat status.
Return Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.
Supply Fan:
The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.

Alarms shall be provided as follows:
- Supply Fan Failure: Commanded on, but the status is off.
- Cooling Stages:

The controller shall measure the zone temperature and stage the cooling to maintain its cooling setpoint. Cooling shall be available to cycle during economizer operation.
- Gas Heating Stages:

The controller shall measure the zone temperature and stage the heating to maintain its heating setpoint.
- Economizer:

The controller shall measure the zone temperature and modulate the economizer damper and relief fan (outside air and powered exhaust fan) in sequence to maintain a setpoint 2°F less than the zone cooling setpoint. The outside air dampers shall maintain a minimum adjustable position of 20% (adj.) open whenever occupied. Cooling stages shall be available to operate during economizer operation.
The economizer shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the outside air enthalpy is less than 22Btu/lb (adj.).
- AND the outside air temperature is less than the return air temperature.
- AND the outside air enthalpy is less than the return air enthalpy.
- AND the supply fan status is on.

The economizer shall close and powered exhaust fan shall cycle off whenever:
- Mixed air temperature drops from 45°F to 40°F (adj.).
- OR on loss of supply fan status.
- OR freezestat (if present) is on.

The outside air damper shall close and the return air damper shall open when the unit is off. If Optimal Start Up is available, the mixed air damper shall operate as described in the occupied mode except that the outside air damper shall modulate to fully closed.
Alarm shall be provided: Economizer fault or failure to operate.
- Minimum Outside Air Ventilation – Carbon Dioxide (CO2) Control:

When in the occupied mode, the controller shall measure the return air CO2 levels and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damper operation to maintain a CO2 setpoint of 750 ppm (adj.).
- Prefilter Differential Pressure Monitor;

The controller shall monitor the differential pressure across the prefilter.
Alarms shall be provided as follows:
- Prefilter Change Required: Prefilter differential pressure exceeds a user definable limit (adj.).
- Return Air Carbon Dioxide (CO2) Concentration Monitoring:

The controller shall measure the return air CO2 concentration.
Alarms shall be provided as follows:
- High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 1000ppm (adj.) when in the occupied mode.
- Return Air Temperature:

The controller shall monitor the return air temperature and use as required for economizer control (if present).
Alarms shall be provided as follows:
- High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
- Low Return Air Temp: If the return air temperature is less than 45°F (adj.).
- Supply Air Temperature:

The controller shall monitor the supply air temperature.
Alarms shall be provided as follows:
- High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
- Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

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75% CONSTRUCTION DOCUMENTS
PROGRESS SET 02/11/2025

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

Title: HVAC SCHEMATICS

Project No: NMSU2023-01

M022

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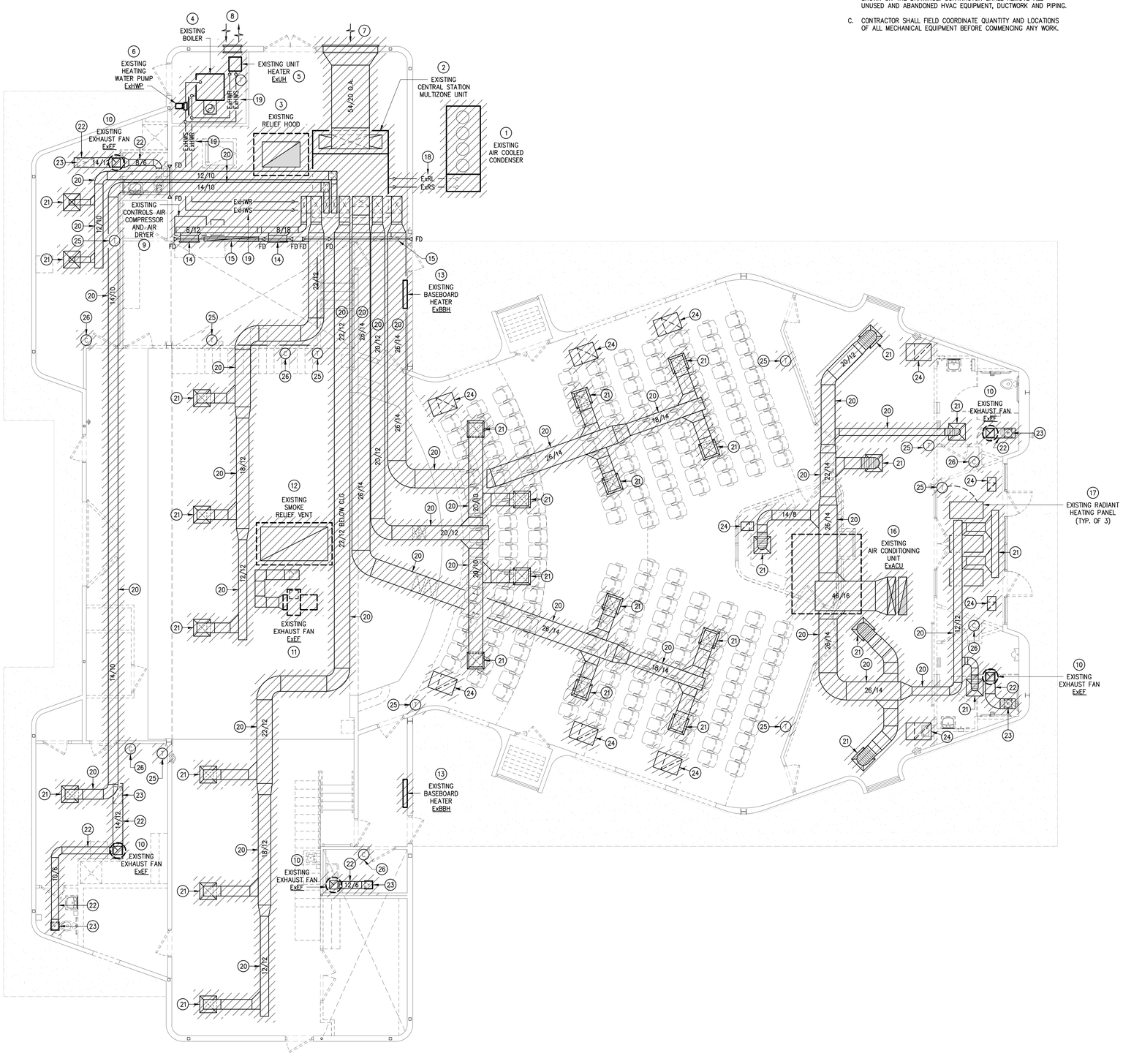
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GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING HVAC EQUIPMENT PRIOR TO COMMENCING ANY WORK.

B. NOT ALL EXISTING HVAC EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REMOVE ALL UNUSED AND ABANDONED HVAC EQUIPMENT, DUCTWORK AND PIPING.

C. CONTRACTOR SHALL FIELD COORDINATE QUANTITY AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE COMMENCING ANY WORK.



1 MD101 HVAC DEMOLITION PLAN

SCALE: 3/16"=1'-0"

KEYED NOTES:

1. EXISTING AIR COOLED CONDENSER UNIT AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING AIR COOLED CONDENSER.
2. EXISTING CENTRAL STATION MULTIZONE HVAC UNIT AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ALL ASSOCIATED SUPPLY AIR, RETURN AIR AND OUTSIDE AIR DUCTWORK ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING CENTRAL STATION MULTIZONE HVAC UNIT.
3. EXISTING ROOF MOUNTED RELIEF HOOD AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ALL ASSOCIATED RELIEF AIR DUCTWORK IS TO BE REMOVED IN ITS ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING ROOF MOUNTED RELIEF HOOD.
4. EXISTING GAS FIRED BOILER AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ASSOCIATED BOILER FLUE VENT UP THRU ROOF TO ROOF MOUNTED FLUE CAP IS TO BE REMOVED IN ITS ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING GAS FIRED BOILER.
5. EXISTING GAS FIRED UNIT HEATER AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ASSOCIATED UNIT HEATER FLUE VENT UP THRU ROOF TO ROOF MOUNTED FLUE CAP IS TO BE REMOVED IN ITS ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING GAS FIRED UNIT HEATER.
6. EXISTING HEATING WATER PUMP AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING HEATING WATER PUMP.
7. EXISTING OUTSIDE AIR LOUVER AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH EXISTING CONDITIONS. ASSOCIATED OUTSIDE AIR DUCTWORK IS TO BE REMOVED IN ITS ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING OUTSIDE AIR LOUVER.
8. (2) EXISTING COMBUSTION AIR LOUVERS AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH EXISTING CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF (2) EXISTING COMBUSTION AIR LOUVERS.
9. EXISTING CONTROLS AIR COMPRESSOR, EXISTING AIR DRYER AND ALL ASSOCIATED PIPING AND PIPING ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING CONTROLS AIR COMPRESSOR AND EXISTING AIR DRYER.
10. EXISTING ROOF MOUNTED EXHAUST FAN AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ASSOCIATED EXHAUST AIR DUCTWORK UP THRU ROOF IS TO BE REMOVED IN ITS ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING ROOF MOUNTED EXHAUST FAN.
11. EXISTING ROOF MOUNTED UTILITY SET EXHAUST FAN AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ASSOCIATED EXHAUST AIR DUCTWORK MOUNTED ON ROOF AND DOWN THRU ROOF IS TO BE REMOVED IN ITS ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING ROOF MOUNTED UTILITY SET EXHAUST FAN.
12. EXISTING ROOF MOUNTED SMOKE RELIEF VENT AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ALL ASSOCIATED RELIEF AIR DUCTWORK IS TO BE REMOVED IN ITS ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING ROOF MOUNTED SMOKE RELIEF VENT.
13. EXISTING FLOOR MOUNTED ELECTRIC BASEBOARD HEATER AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING FLOOR MOUNTED ELECTRIC BASEBOARD HEATER.
14. EXISTING WALL MOUNTED SUPPLY AIR GRILLE, ALL ASSOCIATED SUPPLY AIR DUCTWORK AND FIRE DAMPER ARE TO BE REMOVED IN THEIR ENTIRETY, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH EXISTING CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING WALL MOUNTED SUPPLY AIR GRILLE.
15. EXISTING RETURN AIR OPENING IN WALL WITH FIRE DAMPER AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH EXISTING CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING RETURN AIR OPENING IN WALL WITH FIRE DAMPER.
16. EXISTING ROOF MOUNTED AIR CONDITIONING UNIT AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. ASSOCIATED SUPPLY AND RETURN AIR DUCTWORK MOUNTED ON ROOF AND DOWN THRU ROOF ARE TO BE REMOVED IN THEIR ENTIRETY, PATCH AND REPAIR ROOF AS REQUIRED TO MATCH NEW CONDITIONS. FIELD COORDINATE ACTUAL LOCATION OF EXISTING ROOF MOUNTED AIR CONDITIONING UNIT.
17. EXISTING CEILING MOUNTED ELECTRIC RADIANT HEATING PANEL AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING CEILING MOUNTED ELECTRIC RADIANT HEATING PANEL.
18. EXISTING REFRIGERANT LIQUID AND REFRIGERANT SUCTION PIPING AND ALL ASSOCIATED PIPING ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING REFRIGERANT LIQUID AND REFRIGERANT SUCTION PIPING.
19. EXISTING HEATING WATER SUPPLY AND HEATING WATER RETURN PIPING AND ALL ASSOCIATED PIPING ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING HEATING WATER SUPPLY AND HEATING WATER RETURN PIPING.
20. EXISTING SUPPLY AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, FIELD COORDINATE ACTUAL LOCATION OF EXISTING SUPPLY AIR DUCTWORK.
21. EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED SUPPLY AIR DUCTWORK ARE TO BE REMOVED IN THEIR ENTIRETY, FIELD COORDINATE ACTUAL LOCATION OF EXISTING SUPPLY AIR DIFFUSER.
22. EXISTING EXHAUST AIR DUCTWORK AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, FIELD COORDINATE ACTUAL LOCATION OF EXISTING EXHAUST AIR DUCTWORK.
23. EXISTING EXHAUST AIR DIFFUSER AND ASSOCIATED EXHAUST AIR DUCTWORK ARE TO BE REMOVED IN THEIR ENTIRETY, FIELD COORDINATE ACTUAL LOCATION OF EXISTING EXHAUST AIR DIFFUSER.
24. EXISTING RETURN AIR DIFFUSER AND ASSOCIATED RETURN AIR DUCTWORK ARE TO BE REMOVED IN THEIR ENTIRETY, FIELD COORDINATE ACTUAL LOCATION OF EXISTING RETURN AIR DIFFUSER.
25. EXISTING THERMOSTAT AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION OF EXISTING THERMOSTAT.
26. EXISTING EXHAUST FAN CONTROL SWITCH AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION OF EXISTING EXHAUST FAN CONTROL SWITCH.

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

Title: HVAC DEMOLITION PLAN

Project No.: NMSU2023-01

MD101

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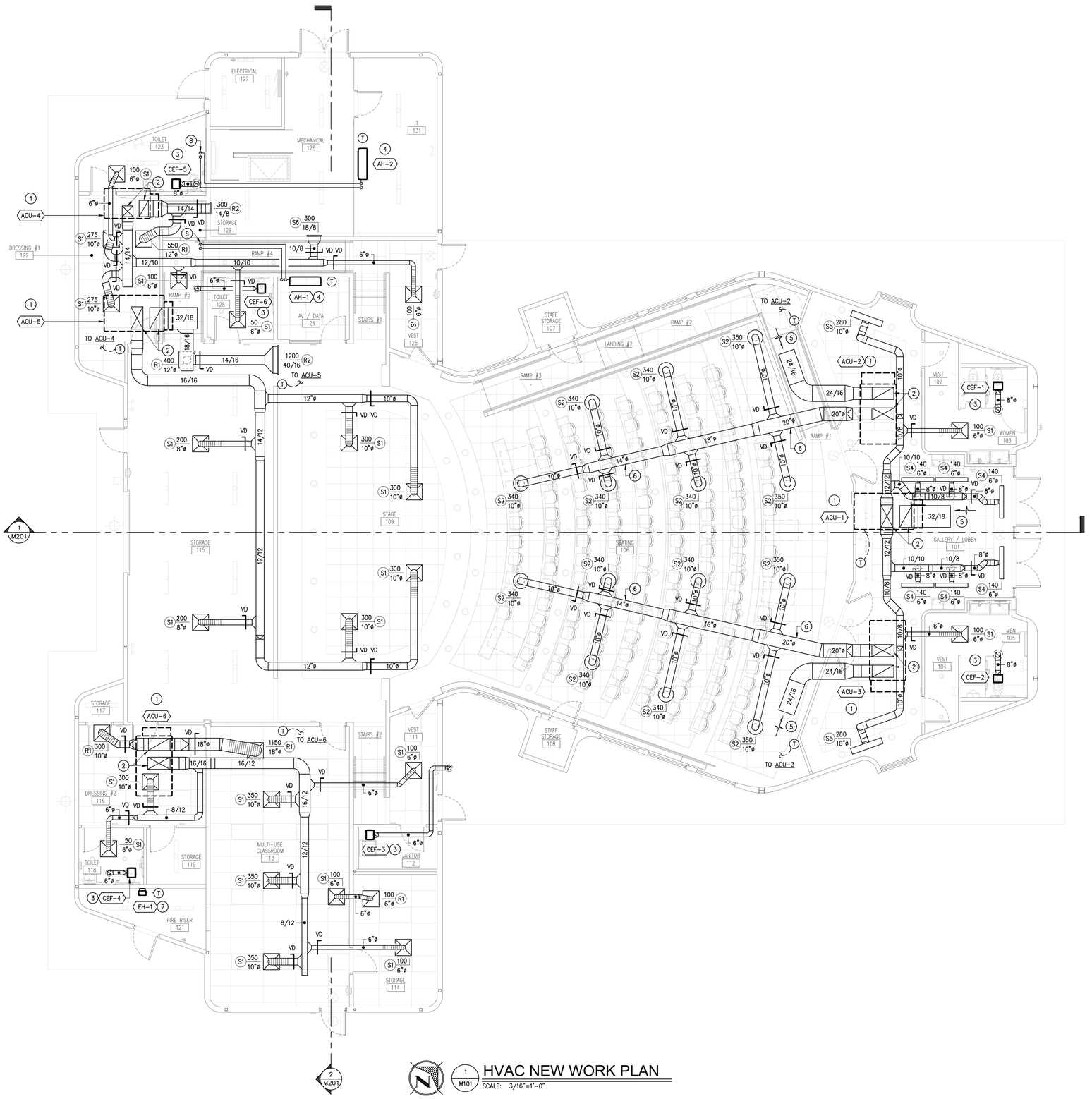
GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE ACTUAL LOCATION OF ALL SUPPLY, RETURN AND EXHAUST AIR DUCTWORK ROOF PENETRATIONS WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES PRIOR TO COMMENCING ANY WORK.

B. CONTRACTOR SHALL COORDINATE ACTUAL LOCATION OF ALL SUPPLY, RETURN AND EXHAUST AIR CEILING MOUNTED DIFFUSERS WITH LIGHTING FIXTURES PRIOR TO COMMENCING ANY WORK.

KEYED NOTES:

1. ROOF MOUNTED AIR CONDITIONING UNIT, SEE HVAC ROOF PLAN, SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
2. FULL UNIT SIZE SUPPLY AIR AND RETURN AIR DUCTWORK UP THRU ROOF TO ROOF MOUNTED AIR CONDITIONING UNIT WITH 1.5" ACOUSTICAL LINING, SEE HVAC ROOF PLAN FOR DUCTWORK CONTINUATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
3. CEILING MOUNTED EXHAUST FAN WITH EXHAUST DUCTWORK UP THRU ROOF TO CODE APPROVED ROOF CAP. SEE HVAC ROOF PLAN, SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
4. WALL MOUNTED MINI SPLIT SYSTEM INDOOR AIR HANDLING UNIT WITH FULL SIZE REFRIGERANT PIPING ROUTED IN CEILING SPACE AND UP THRU ROOF AND OVER TO ROOF MOUNTED MINI SPLIT SYSTEM CONDENSING UNIT, SEE HVAC ROOF PLAN FOR REFRIGERANT PIPING CONTINUATION. SEE HVAC SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION.
5. 4' LONG OPEN END RETURN DUCTWORK WITH 1.5" ACOUSTICAL LINING. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
6. ALL SUPPLY AIR DUCTWORK WITHIN SEATING AREA IS TO BE DOUBLE WALL DUCTWORK WITH 1-1/2" ACOUSTICAL INSULATION AND METAL PERFORATED LINING. EXPOSED SUPPLY AIR DUCTWORK, REGISTERS AND GRILLES ARE TO BE PAINTED (COLOR SELECTED BY ARCHITECT).
7. WALL MOUNTED ELECTRIC UNIT HEATER, SEE HVAC SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION.
8. FULL SIZE REFRIGERANT PIPING FROM WALL MOUNTED MINI SPLIT SYSTEM INDOOR AIR HANDLING UNIT UP THRU ROOF AND OVER TO ROOF MOUNTED MINI SPLIT SYSTEM CONDENSING UNIT, SEE HVAC ROOF PLAN FOR REFRIGERANT PIPING CONTINUATION.



1 M101 HVAC NEW WORK PLAN
SCALE: 3/16"=1'-0"

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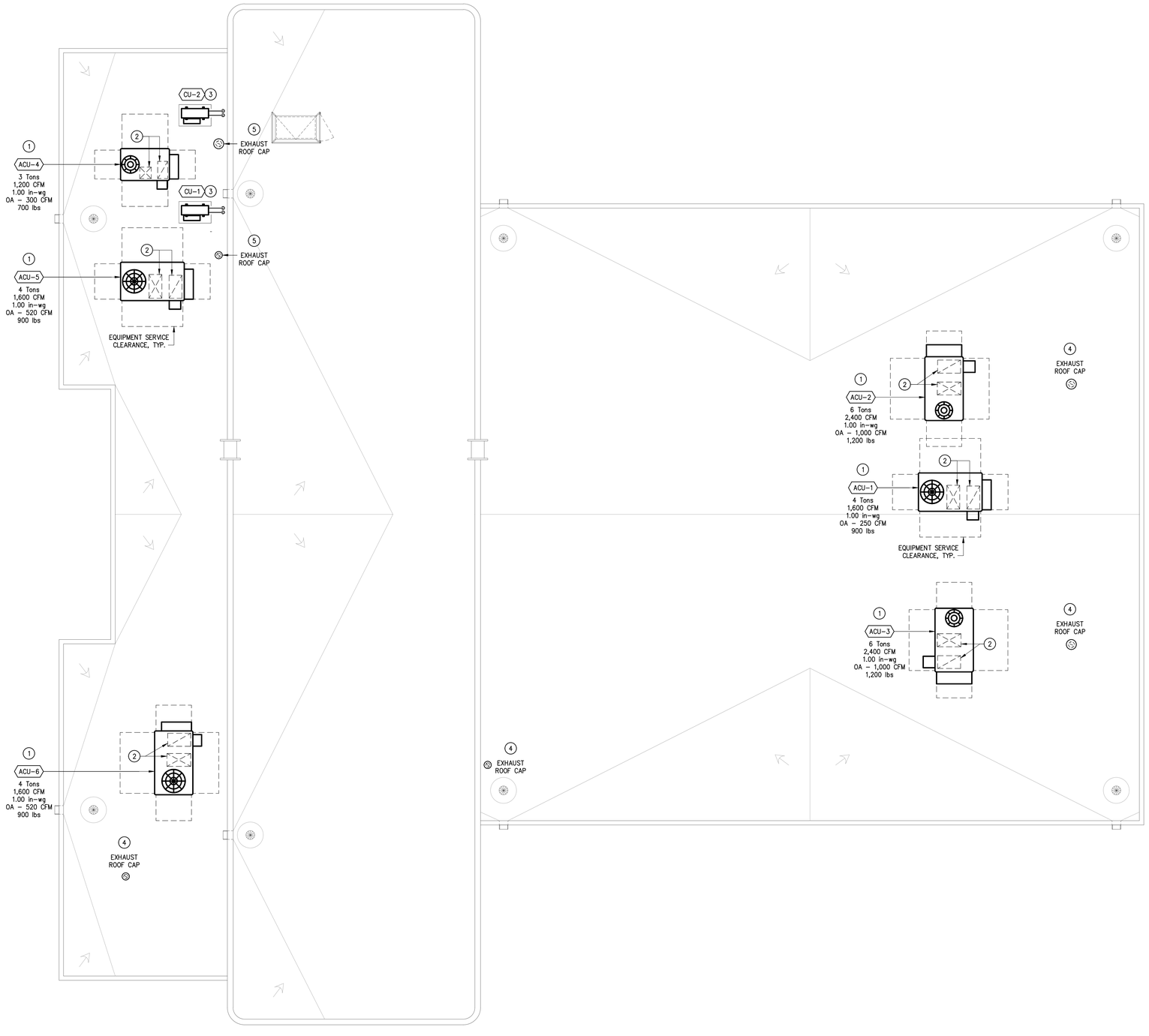
ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

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M101

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HVAC NEW WORK ROOF PLAN

1 / M111

SCALE: 3/16"=1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL FIELD COORDINATE ACTUAL LOCATION OF ALL NEW ROOF MOUNTED HVAC EQUIPMENT WITH EXISTING STRUCTURAL AND EXISTING ARCHITECTURAL FEATURES PRIOR TO COMMENCING ANY WORK.

KEYED NOTES:

1. ROOF MOUNTED AIR CONDITIONING UNIT MOUNTED ON 18" HIGH FACTORY ROOF CURB, SEE HVAC SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
2. FULL UNIT SIZE SUPPLY AND RETURN AIR DUCTWORK DOWN THRU ROOF FROM ROOF MOUNTED AIR CONDITIONING UNIT WITH 1.5" ACOUSTICAL LINING. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
3. ROOF MOUNTED MINI SPLIT SYSTEM OUTDOOR CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING DOWN THRU ROOF, SEE HVAC FLOOR PLAN FOR REFRIGERANT PIPING CONTINUATION. SEE HVAC SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
4. EXHAUST AIR ROOF CAP WITH EXHAUST AIR DUCTWORK DOWN THRU ROOF, SEE HVAC FLOOR PLAN FOR EXHAUST AIR DUCTWORK CONTINUATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
5. EXHAUST AIR ROOF CAP WITH EXHAUST AIR DUCTWORK DOWN THRU ROOF, SEE HVAC FLOOR PLAN FOR EXHAUST AIR DUCTWORK CONTINUATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES. EXHAUST AIR ROOF CAP IS TO BE RAISED A MINIMUM OF 3' ABOVE THE TOP OF ALL HVAC EQUIPMENT LOCATED WITHIN 10' OF EXHAUST AIR ROOF CAP.

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Revisions:

Title: HVAC NEW WORK ROOF PLAN
Project No.: NMSU2023-01

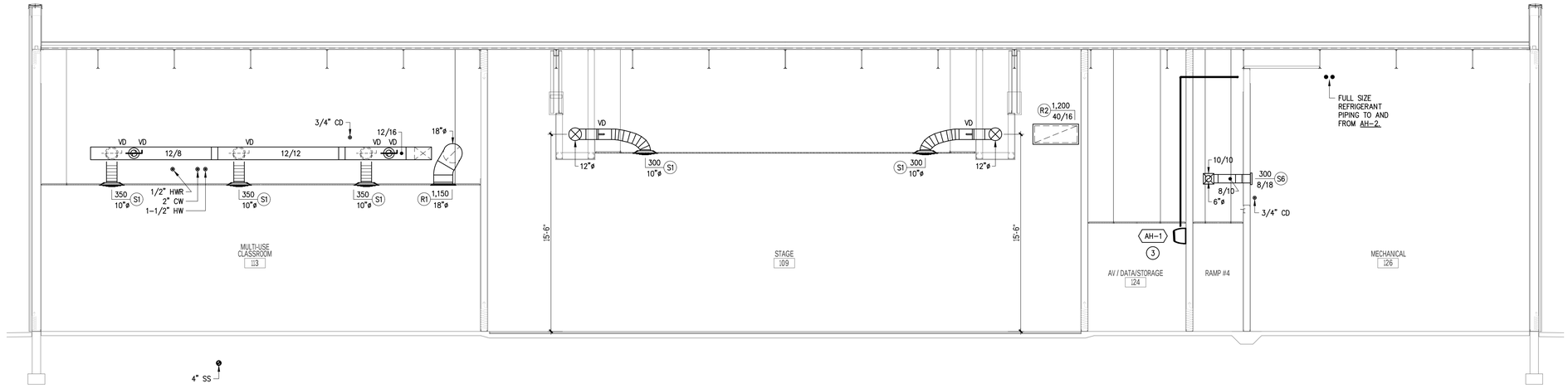
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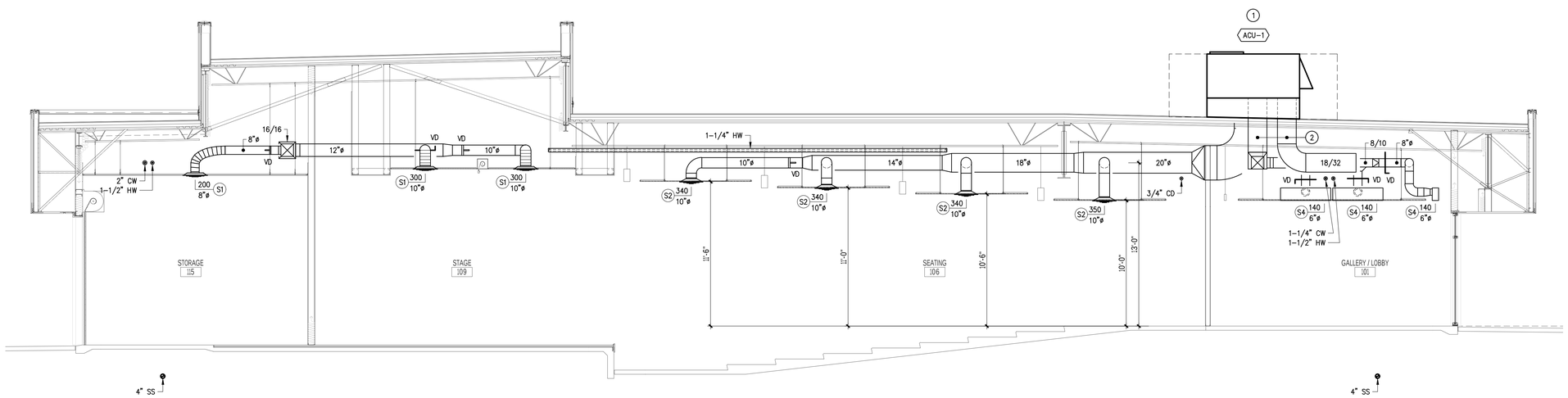
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KEYED NOTES:

1. ROOF MOUNTED AIR CONDITIONING UNIT MOUNTED ON 18" HIGH FACTORY ROOF CURB, SEE HVAC SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
2. FULL UNIT SIZE SUPPLY AND RETURN AIR DUCTWORK DOWN THRU ROOF FROM ROOF MOUNTED AIR CONDITIONING UNIT WITH 1.5" ACOUSTICAL LINING. FIELD COORDINATE ACTUAL LOCATION WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES.
3. WALL MOUNTED MINI SPLIT SYSTEM INDOOR AIR HANDLING UNIT WITH FULL SIZE REFRIGERANT PIPING UP THRU ROOF AND OVER TO ROOF MOUNTED MINI SPLIT SYSTEM CONDENSING UNIT, SEE HVAC SCHEDULES AND SCHEMATICS FOR ADDITIONAL INFORMATION.



1 M201 HVAC SECTION "B"
SCALE: 3/16"=1'-0"



1 M201 HVAC SECTION "A"
SCALE: 3/16"=1'-0"

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

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Revisions:

Title: HVAC SECTIONS

Project No: NMSU2023-01

M201

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MINIMUM PIPE MATERIAL SCHEDULE

SERVICE TYPE	LOCATION	MATERIAL REQUIRED	COMMENTS
SANITARY WASTE & VENT	BELOW & ABOVE GRADE INSIDE BUILDING FOOTPRINT	SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS	
DOMESTIC WATER FOR COLD AND HOT	BELOW GRADE INSIDE BUILDING FOOTPRINT	COPPER TUBING TYPE "K" SOFT DRAWN	NO JOINTS BELOW SLAB
	ABOVE GRADE WITHIN BUILDING FOOTPRINT	COPPER TYPE "L", PEX	
CONDENSATE DRAIN	THROUGH OUT SYSTEM	COPPER TYPE "L", PVC	SIMILAR TO WATER APPLICATIONS

PIPE MATERIAL NOTES:

PVC: SOLID CORE SCH 40 PVC INSTALLED BELOW GRADE SHALL BE IN STRICT ACCORDANCE TO ASTM STANDARD "D2321–89".
ALL PVC PIPING APPLIED TO WASTE/VENT APPLICATIONS SHALL BE SOLID WALL CONFORMING TO ASTM D2665 (NON–PRESSURE APPLICATIONS) OR SHALL BE C–900 FOR PRESSURE APPLICATIONS.

NO PVC PIPING SHALL BE INSTALLED IN RETURN AIR PLENUM SPACES.

NO ASTM F891 CELLULAR CORE POLYVINYL CHLORIDE (PVC) PLASTIC PIPE SHALL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES FOR ANY APPLICATION.

INSULATION REQUIREMENTS:

1 – COLD WATER: 1/2"
2 – CONDENSATE WITHIN BUILDING SHELL: 1/2"
3 – DOMESTIC HOT WATER SUPPLY & RETURN UP TO AND INCLUDING 1–1/2 DIA.: 1"
4 – DOMESTIC HOT WATER SUPPLY & RETURN OVER 1–1/2" DIA.: 2"

ALL MATERIAL SHALL BE RATED AT 0.24 BTUH / INCH / SQ.FT./ DEG. F TO MEET OR EXCEED ENERGY CONSERVATION CODE. APPROVED INSULATION MATERIALS SHALL BE: SLEEVED FIBERGLASS MATERIAL SEALED VAPOR TIGHT IN ACCORDANCE TO APPROVED INDUSTRY STANDARDS AND PRACTICES. SEE SPECIFICATIONS FOR OTHER APPROVED MATERIAL TYPES. THIS SCHEDULE IS PROVIDED AS MINIMUM INSULATION REQUIREMENTS ONLY AND SPECIFICATIONS SHALL SUPERSEDE THIS SCHEDULE WHERE SPECIFICATIONS CALL FOR GREATER INSULATION MATERIALS AND/OR INSTALLATION METHODS. CLOSED CELLULAR FOAM MATERIAL, IF USED, SHALL BE RATED FOR 260°F MINIMUM. PVC SHALL BE WRAPPED IN PLENUM RATED MATERIAL WHERE ALLOWED. ALL INSULATION EXPOSED TO WEATHER SHALL BE ALUMINUM SHROUDED AND SEALED WEATHER TIGHT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—ExCW—	EXISTING WATER LINE		NEW TO EXISTING CONNECTION
—ExG—	EXISTING GAS LINE	—⊘—	BALL VALVE
—ExSS—	EXISTING SEWER LINE	GCO	GRADE CLEANOUT
—ExMPG—	EXISTING MEDIUM PRESSURE GAS	WCO	WALL CLEANOUT
—ExHW—	EXISTING HOT WATER LINE	CO	CLEANOUT
—ExHWR—	EXISTING HOT WATER RECIRC. LINE	???	EQUIPMENT DESIGNATION
—CW—	COLD WATER LINE	——→	PIPE ELBOW DOWN
—HW—	HOT WATER LINE	—┴—	PIPE TEE
—HWR—	HOT WATER RETURN LINE		
—SS—	SEWER LINE		
—G—	GAS LINE		

GENERAL COMMERCIAL UTILITY NOTES:

1. THE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING, RESEARCHING AND CALLING FOR DESIGN LOCATES NEW MEXICO ONE CALL (811). LOCATING EXISTING MAINS, SERVICE LINE STUB–OUTS, AND OTHER FACILITIES AND SHOWING THEM APPROPRIATELY ON THE UTILITY SHEET.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR JOB SAFETY OR COMPLIANCE TO OSHA REGULATIONS. THE ENGINEER AND THE OWNER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR COMPLIANCE TO OSHA REGULATIONS.
3. SHOULD CONFLICTING INFORMATION OR INTERFERENCE PROBLEMS APPEAR IN THE CONSTRUCTION DRAWINGS THE CONTRACTOR SHALL BRING THAT INFORMATION TO THE ATTENTION OF THE ENGINEER IMMEDIATELY PRIOR TO INSTALLATION. FAILURE TO DO SO SHALL NOT BE A BASIS OF EXTRA PAYMENT TO THE CONTRACTOR.
4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP DONE WITHIN THE PUBLIC RIGHT–OF–WAY SHALL CONFORM TO THE CITY OF LAS CRUCES UTILITY STANDARDS AND IT IS AVAILABLE AT: http://www.las–cruces.org/DocumentCenter/Utility–Standards–PDF
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR COMPLYING WITH NEW MEXICO ONE–CALL PROCEDURES. ANY DAMAGE TO EXISTING UTILITIES MUST BE IMMEDIATELY REPORTED TO THE APPROPRIATE UTILITY COMPANY. LAS CRUCES UTILITIES EMERGENCY DISPATCH, CALL (575) 526–5500.
6. ROADWAY, RIGHT–OF–WAY AND SUB GRADE TO BE ESTABLISHED WITHIN 6 INCHES (BOTH HORIZONTAL AND VERTICAL) OF FINAL LOCATION PRIOR TO INSTALLATION OF ANY UTILITIES. GAS AND WATER UTILITIES TO BE PLACED WITHIN 6" OF FINAL REQUIRED DEPTH AND LOCATION. THE CONTRACTOR WILL AT HIS EXPENSE RELOCATE OR REPLACE UTILITIES WHICH FAIL TO ADHERE TO THIS SPECIFICATION.
7. CURB CONTRACTOR TO STAMP FRESH CONCRETE SIDEWALK WITH G.S. AND W. DIRECTLY ABOVE GAS, SEWER, AND WATER STUB OUT LOCATIONS. A UTILITY INSPECTOR SHALL BE PRESENT WHEN MAKING, CALL (575) 528–3500 FOR CLC INSPECTION. FAILURE TO APPLY STAMPS SHALL BE CAUSE FOR REJECTION OF THE IMPROVEMENT BY THE CITY.
8. IT WILL BE THE DEVELOPER'S RESPONSIBILITY TO SUBMIT THE "AS–BUILT" DRAWINGS, AS COMPLETED BY THE CONTRACTOR AND TURNED IN TO THE CLC PROJECT MANAGER, FOR APPROVAL AND ACCEPTANCE.
9. THE CONTRACTOR SHALL PROVIDE AS–BUILT DRAWINGS OF THE IMPROVEMENTS TO THE GAS SYSTEM BEFORE THOSE IMPROVEMENTS BE TIED INTO THE EXISTING GAS SYSTEM.
10. THE INSTALLATION OF MAINS/SERVICE LINES IN DAC AND NMDOT RIGHT–OF–WAY REQUIRE A PERMIT FROM THAT GOVERNMENT ENTITY AND MUST BE INITIATED BY THE PERSON REQUESTING THE SERVICE. THE OWNER IS RESPONSIBLE FOR ANY FEES WITH THE PERMIT PROCESS.
11. ALL CLC UTILITY LINES SHALL NOT BE INSTALLED UNDER CONCRETE WITHOUT PRIOR APPROVAL FROM THE LAS CRUCES UTILITIES.
12. EXCESS FLOW VALVES (EFV) ARE REQUIRED ON PER MOST CURRENT CODE OF FEDERAL REGULATION TITLE 49 PART 192.
13. TREES SHALL HAVE A 10' MINIMUM CLEARANCE FROM ALL CLC UTILITY SERVICES.
14. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY WORK INCLUDING TRAFFIC CONTROL, PAVEMENT CUTS, EXCAVATION, INSTALLATION AND RESTORATION. AT THE OWNER'S EXPENSE, LAS CRUCES UTILITIES CAN PERFORM SUCH TASKS IF STATED ON THE UTILITY PLAN.
15. ANY CHANGES FROM PREVIOUSLY APPROVED UTILITY PLAN REQUIRE A WRITTEN REQUEST FROM THE ENGINEER OR AN AMENDMENT TO THE UTILITY PLAN.
16. ALL UTILITY EASEMENTS MUST BE FIELD AND RECORDED WITH THE DONA ANA COUNTY AND A RECORDED COPY SUBMITTED TO THE LAS CRUCES UTILITIES RES/TS DEPARTMENT BEFORE ANY GAS METERS ARE INSTALLED OR THE FINAL INSPECTION IS APPROVED.

GENERAL UTILITY NOTES:

1. BURIED NATURAL GAS PIPING AND LANDSCAPING (NEW AND/OR EXISTING) SHALL BE COORDINATED SO THAT TREES SHALL NOT RESIDE WITHIN 5'–0" OF GAS LINES.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF LAS CRUCES FOR CONNECTION FEES, METERS, YARDLINES, ETC., AND SHALL INCLUDE THESE COSTS IN THE BID UNLESS SPECIFIED OTHERWISE BY CONTRACT DOCUMENTS. CONTRACTOR SHALL INSTALL ALL UTILITIES.
3. NATURAL GAS ROUTING SHALL AVOID CONCRETE PAVING WHERE EVER POSSIBLE. WHERE GAS PIPING IS INSTALLED BELOW 7FT OR MORE OF CONTINUOUS CONCRETE COVER, A VENTED SLEEVE SHALL BE INSTALLED FOR THE LENGTH OF PIPE BELOW CONCRETE.
4. NEW AND/OR EXISTING UTILITIES INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS INCLUDING UTILITY LOCATIONS, P.O.C.'S AND LANDSCAPING MEMBERS PRIOR TO INSTALLATION.
5. ALL UTILITY WORK (TO METERS, ETC.) TO BE DONE PER CITY OF LAS CRUCES UTILITY STANDARDS. ALL WORK AFTER METERS SHALL BE DONE PER CODE.
6. ALL UTILITIES ARE TO BE INSTALLED WITH TRACER WIRE. WATER IS BLUE WIRE. WATER TRACER WIRE IS TO CONNECT TO EXISTING WIRE ON THE WATER MAIN AND TERMINATE IN THE METER VAULT AND AT BUILDING ENTRANCE.

PLUMBING GENERAL NOTES:

1. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
2. ALL SERVICE CONNECTIONS FOR HVAC EQUIPMENT SHALL BE COORDINATED IN FIELD WITH MECHANICAL DRAWINGS & CONTRACTOR. UNLESS WRITTEN APPROVAL FROM ARCHITECT/ENGINEER IS GIVEN HVAC UNITS SHALL BE ORIENTATED PER MECHANICAL DRAWINGS.
3. WHERE STRUCTURE IS ALTERED OR DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR THE AREA TO MATCH SURROUNDING AREA PER ARCHITECTURAL SPECIFICATIONS.
4. PROVIDE AND INSTALL SLEEVES AND FIRE SEAL FOR ALL PIPE PENETRATIONS THROUGH FIRE AND SMOKE WALLS. SEE SPECIFICATIONS AND/OR SCHEMATICS.
5. ALL DISSIMILAR METALLIC PIPING AND ACCESSORIES SHALL BE SEPARATED WITH DIELECTRIC FITTINGS AND 10 MIL POLY TAPE.
6. CONTRACTOR SHALL PROVIDE ACCESS DOORS (MIN. 18"X18") FOR ALL CONTROLS, MAINTENANCE ITEMS, AND VALVES BEHIND RIGID WALL OR CEILING MATERIALS. CONTRACTOR TO COORDINATE WITH ARCHITECT PRIOR TO PLACEMENT/INSTALLATION – ACCESS DOORS TO BE INSTALLED IN INCONSPICUOUS AREAS WHENEVER POSSIBLE.
7. ALL PIPING SHALL BE SUPPORTED APPROPRIATELY IN WALLS, CEILING, AND BELOW FLOORS. SEE SPECIFICATIONS AND/OR SCHEMATICS FOR DETAILS.
8. CONTRACTOR IS TO VERIFY THAT FALL OF THE SEWER LINE WILL MEET INVERT AT POINT OF CONNECTION BEFORE INSTALLING PIPING.
9. ALL EXPOSED GAS LINE SHALL BE PAINTED, OHSA YELLOW. VERTICAL GAS RISERS SHALL BE PAINTED TO MATCH BUILDING EXTERIOR.
10. ALL GAS PIPING (NEW & EXISTING) SHALL BE TESTED, 10 PSI FOR 15 MINUTES FOR TREADED PIPE, 60 PSI FOR 30 MINUTES FOR WELDED PIPE OR PER AHJ REQUIREMENTS. CONTRACTOR SHALL REPAIR PIPE AND FITTINGS AS NEEDED.
11. COMBINATION WASTE & VENT SYSTEM SHALL HAVE VENT PIPE NO LESS THAN ONE–HALF THE SIZE OF THE INSIDE CROSS–SECTIONAL AREA OF THE DRAIN PIPE SERVED. PROVIDE A CLEANOUT AT BASE OF VENT RISER ABOVE FLOOR. SLOPE HORIZONTAL DRAIN PIPE AT 2%.
12. "CALL BEFORE YOU DIG" REQUIREMENTS ON THE PLUMBING DRAWINGS SHALL APPLY TO HVAC RELATED PIPING SYSTEM.
13. ALL WORK SHALL BE IN ACCORDANCE WITH:
    NM COMMERCIAL BUILDING CODE WITH INTERNATIONAL BUILDING CODE (IBC 2015)
    NM PLUMBING CODE WITH UNIFORM PLUMBING CODE (UPC 2021)
    NM MECHANICAL CODE WITH UNIFORM MECHANICAL CODE (UMC 2021)
    INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2018)
    INTERNATIONAL FUEL GAS CODE (IFGC 2015)
    AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI 2003)
    NFPA 101 LIFE SAFETY CODE (2000)

DOCUMENT GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC. THEY ARE TO BE USED AS A GENERAL GUIDE AND ARE NOT INTENDED TO BE SPECIFIC INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL CONSTRUCT ACCORDING TO CODE AND/OR MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. DRAWINGS ARE BASED UPON ORIGINAL BUILDING PLANS AND/OR FIELD OBSERVATIONS. CONTRACTOR MUST FIELD VERIFY EXACT LOCATIONS AND ROUTING OF: PLUMBING & HVAC.
3. CONTRACTOR SHALL EXPECT TO MAKE SOME ROUTING ADJUSTMENTS DURING THE COURSE OF CONSTRUCTION. COORDINATE CHANGES WITH ARCHITECT AND KEEP RECORD OF CHANGES FOR FUTURE USE.
4. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ITEMS ON THESE PLANS WITH ANY/ALL SUB–CONTRACTORS. ITEMS LISTED ON PLANS SHALL BE PROVIDED & INSTALLED BY GENERAL CONTRACTOR AND/OR SUBCONTRACTOR. ITEMS LISTED AS "BY OTHERS" DOES NOT MEAN BY OWNER.
5. CONTRACTOR FAILURE TO NOT FOLLOW ALL LISTED NOTES AND/OR MEET THE REQUIREMENTS OF CODE REQUIREMENTS AND/OR MANUFACTURERS INSTALLATION GUIDELINES CAN AND MAY RESULT IN ADDITIONAL FEES/SURCHARGES TO THE CONTRACTOR(S) BY/TO OWNER–ARCHITECT–ENGINEER. IF CONTRACTOR(S) HAVE ANY QUESTIONS AND/OR VALUE ENGINEERING ITEMS THAT WOULD LIKE TO BE INCORPORATED INTO PLANS, SUCH ITEMS SHALL BE FORWARDED TO ARCHITECT FOR REVIEW AND ARE REQUIRED TO BE ISSUED PRIOR TO ANY BIDDING OR PRICE–QUOTE DEADLINES. ANY DISCREPANCIES AFTER AWARD/DURING CONSTRUCTION WILL RESULT THAT THE CONTRACTOR FOLLOW THE MORE STRINGENT INSTALLATION METHOD AND/OR MATERIAL TYPES AND SIZES, ETC., ETC.

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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

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Project No.: NMSU2023-01

P001

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PLUMBING FIXTURE SCHEDULE

MARK	ROUGH-IN REQUIREMENTS				DESCRIPTION	MANUFACTURER AND MODEL NO.	ACCESSORIES
	DRAIN	VENT	COLD	HOT			
WC-1	3"	2"	1"	–	ADA WALL MOUNTED WALL OUTLET FLUSH VALVE WATER CLOSET ELONGATED CHINA BOWL, EXPOSED FLUSH VALVE WITH VANDAL RESISTANT STOP CAP, 1.28 GALLONS PER FLUSH, EXTRA HEAVY DUTY OPEN FRON WHITE SEAT, EXPOSED FLUSH VALVE WITH 1" TOP SPUD, FLUSH HANDLE ON WIDE SIDE OF TOILET WHERE SHOWN ON ARCHITECTURAL DRAWINGS FOR HANDICAPPED ACCESSIBILITY, MOUNT TOILET SO SEAT IS BETWEEN 17"-19".	KOHLER K-84325, MER. STD 2859.016 OR EQUAL	VALVE: KOHLER K-80TM00N10 OR EQUAL SEAT – KOHLER K4666SC, BEMIS 1655C CARRIER-ZURN Z-1203
WC-2	3"	2"	1"	–	WALL MOUNTED WALL OUTLET FLUSH VALVE WATER CLOSET ELONGATED CHINA BOWL BOTTOM OUTLET, EXTRA HEAVY DUTY OPEN FRONT WHITE SEAT, EXPOSED FLUSH VALVE WITH VANDAL RESISTANT STOP CAP, 1.28 GALLONS PER FLUSH, FLUSH HANDLE ON WIDE SIDE OF TOILET, MOUNT TOILET SO SEAT IS BETWEEN 15"-17".	KOHLER K-84325, AMER. STD 2859.016 OR EQUAL	VALVE: KOHLER K-80TM00N10 OR EQUAL SEAT – KOHLER K4666SC, BEMIS 1655C CARRIER-ZURN Z-1203
LAV	2"	1 1/2"	1/2"	1/2"	ADA COUNTERTOP LAVATORY WITH ASSE 1070 SINGLE LEVER FAUCET VITREOUS CHINA, NOMINAL 20"x17" SELF RIMMING, FRONT OVERFLOW, RECESSED FAUCET LEDGE, SINGLE LEVER, 0.5 GPM VANDAL RESISTANT AERATOR, 4" CENTER FAUCET HOLES, WASHERLESS, DRAIN OUTLET WITH GRID STRAINER. ASSE 1070 FAUCET	KOHLER K-2196-4	FAUCET – WATTS P1070 CARRIER- ZURN Z-1231, OR EQUAL WADE, JR SMITH DRAIN – AMER. STD. 2411.015
LAV-2	2"	1 1/2"	1/2"	1/2"	ADA WALL MOUNTED LAVATORY WITH SINGLE LEVER FAUCET AND POINT OF USE TMV VITREOUS CHINA, NOMINAL 20"x18", BACK AND SIDE SPLASHES, FOR CONCEALED ARM CARRIER, 4" CENTER FAUCET HOLES, ADA COMPLIANT SINGLE LEVER FAUCET, LESS ESCUTCHEON PLATE, LESS DRAIN, CAST BRASS CONSTRUCTION, WATER LESS, DRAIN OUTLET WITH GRID STRAINER ASSE 1070 FAUCET	KOHLER K-2005	FAUCET – DELTA 22C151 CARRIER- ZURN Z-1231, OR EQUAL WADE, JR SMITH DRAIN – AMER. STD. 2411.015 TMV – WATTS LF6480
U-1	2"	2"	3/4"	–	ADA WALL MOUNTED WASHOUT URINAL-NARROW STYLE TAPERED ELONGATED CHINA BOWL, 1.0 GALLON PER FLUSH, RIM 14" FROM WALL, EXTENDED SIDES, 3/4" TOP SPUD, VANDAL RESISTANT STOP CAP. MOUNT ADA COMPLIANT URINAL'S RIM HEIGHT AT A MAXIMUM OF 17"	KOHLER K-5016-ETSS AMER. STD 6541.511 OR EQUAL	VALVE: KOHLER K-76319 OR EQUAL CARRIER-ZURN Z-1221
U-2	2"	2"	3/4"	–	WALL MOUNTED WASHOUT URINAL-NARROW STYLE TAPERED ELONGATED CHINA BOWL, 1.0 GALLON PER FLUSH, RIM 14" FROM WALL, EXTENDED SIDES, 3/4" TOP SPUD, VANDAL RESISTANT STOP CAP. MOUNT STANDARD OCCUPANCY URINAL'S RIM HEIGHT AT A MAXIMUM OF 24"	KOHLER K-5016-ETSS, AMER. STD 6541.511 OR EQUAL	VALVE: KOHLER K-76319 OR EQUAL CARRIER-ZURN Z-1221
MSB	3"	2"	3/4"	3/4"	FLOOR MOUNTED DROP FRONT SERVICE SINK 36"x24"x12" WITH WALL MOUNTED FAUCET WITH VACUUM BREAKER, TOP BRACE, INTEGRAL STOPS, HOSE THREADED SPOUT. PROVIDE 3" DRAIN OUTLET WITH DOME STRAINER, MOP HANGER, HOSE/BRACKET COMBINATION.	ACORN TDF-3624	FAUCET – FIAT 830-AA MOP HANGER-BRADLEY 9933
EWC	2"	1 1/2"	1/2"	1/2"	ADA TWO LEVEL WATER COOLER WITH BOTTLE FILLING STATION LEAD FREE, ANTI-MICROBIAL PROTECTION, HIGH EFFICIENCY COMPRESSOR, LIGHT GRAY GRANITE FINISH, CAPACITY OF 8.0 GPH 50 DEG F COOLING AT 90 DEG AIR TEMPERATURE. CONCEALED ARM CARRIER. POWER-360 WATTS, 4.2 AMPS @ 120/60/1 VOLTS WITH THREE PRONG OUTLET. PROVIDE ADA "CANE APRON" WHEN KNEE CLEARANCE IS GREATER THAN 27" FROM FLOOR AT "STANDARD OCCUPANCY" HEIGHT.	ELKAY LZSTL8WSLP-LHHS	CARRIER: ZURN Z-1225-BL SEE ARCHITECT'S ELEVATIONS FOR MOUNTING HEIGHTS.
HB	–	–	3/4"	–	INTERIOR EXPOSED HOSE BIBB ANTI-SIPHON VACUUM BREAKER, CHROME PLATED, INTERIOR APPLICATION ONLY, ADA COMPLIANT LEVER HANDLE, WALL MOUNTED WITH FLANGE.	ZURN Z-1354-VB-1	
EHB	--	--	3/4"	--	EXTERIOR ENCASED WALL HYDRANT ANTI-SIPHON VACUUM BREAKER, POLISHED BRASS AUTOMATIC DRAINING, FREEZE RESISTANT, WALL CLAMP, STEM FOR 6" THICK WALL, CERAMIC DISK PROVIDE 12 X 12 WALL OR CEILING ACCESS DOOR.	ZURN Z-1320-C-PB	MOUNT WITHIN 22"-32" A.F.G. – FIELD COORDINATE ACTUAL MOUNTING HEIGHT WITH ARCHITECTURAL CONDITIONS (AVOID STEEL STRUCTURE, CONSIDER LANDSCAPING CONDITIONS, ETC?)
FD-1	2"	1 1/2"			FLOOR DRAIN 6" ROUND ADJUSTABLE POLISHED NICKEL BRONZE STRAINER, CAST IRON BODY, SEDIMENT BUCKET, AND ADJUSTABLE FLASHING COLLAR, 1/2" TRAP PRIMER ADAPTER	ZURN ZN-415B-Y-P	PROVIDE SURE SEAL TRAP GUARD FITTED WITH VANDAL RESISTANT HARDWARE
FS	2"	1 1/2"	–	–	FLOOR SINK 12"X12"X6" DEEP CAST IRON BODY, SQUARE SLOTTED MEDIUM DUTY 3/4 GRATING, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, ALUMINUM ANTISPLASH INTERIOR WITH BOTTOM DOME STRAINER, AND 1/2" TRAP PRIMER ADAPTER.	ZURN Z-1900-P-3	PROVIDE SURE SEAL TRAP GUARD
SA	SEE NOTES	SEE NOTES	–	–	SHOCK ABSORBER STAINLESS STEEL NESTED BELLOWS OR SOLID BRASS PISTION TYPE. PROVIDE ISOLATION BALL VALVE WITH ACCESS DOOR WHERE INSTALLED IN CONCEALED LOCATION. CONTRACTOR SHALL SIZE EACH UNIT FOR PROPER DISPLACEMENT FOR THE FIXTURES COUNT ON CW OR HW LINE AS REQUIRED AT LOCATION SHOWN.	ZURN SHOKTROL SERIES JR. SMITH 5000 SERIES	SIZED PER "PLUMBING AND DRAIN INSTITUTE" (P.D.I.) STANDARD # WH-201
WCO	SEE DWG'S	–	–	–	WALL CLEANOUT NO-HUB CAST IRON CLEANOUT TEE WITH ROUND STAINLESS STEEL COVER AND CENTER SCREW, GASKETED SEAL IRON THREADED PLUG WITH RECESSED SOCKET.	ZURN Z-1446-BP	
FCO	SEE DWG'S				FLOOR CLEANOUT CAST IRON BODY WITH SQUARE ADJUSTABLE SCORIATED NICKEL BRONZE TOP, GASKET SEAL BRASS THREADED PLUG WITH RECESSED SOCKET.	ZURN ZN-1400-BP	
GCO & DGCO	SEE DWG'S				EXTERIOR CLEANOUT CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, GASKET SEAL CAST IRON PLUG WITH RECESSED SOCKET. INSTALL IN MINIMUM OF 12"X12"x4" REINFORCED CONCRETE PAD WITH BEVELED EDGES.	ZURN Z-1400-HD	
RD	–	–	–	SEE DWG'S	ROOF DRAIN RETROFIT ROOF DRAIN, #16 GAGE TYPE 304 STAINLESS STEEL BODY AND NEOPRENE GASKET, COMPLETE WITH DURA-COATED CAST IRON CLAMP COLLAR AND DOME STEEL HARDWARE.	ZURN RD2150-SS4	PUSH-IN OUTLET WITH NEOPRENE GASKET WITH CLAMPING COLLAR.

NOTES:

1. MANUFACTURERS WITH MODEL NUMBERS ARE BASE ITEMS. OTHER MANUFACTURERS LISTED ARE EQUIVALENT MANUFACTURERS.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL WALL-MOUNTED FIXTURES, REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
3. EACH UNDERSLAB OR CONCEALED P-TRAP SHALL BE A DEEP-SEAL TYPE.
4. PROVIDE EACH WALL MOUNTED PLUMBING FIXTURE, SUCH AS SINKS, LAVATORIES, ELECTRIC WATER COOLERS, DRINKING FOUNTAINS, ETC., WITH A FLOOR MOUNTED FIXTURE SUPPORT CARRIER WITH RECTANGULAR LEGS.
5. UNLESS SCHEDULED OTHERWISE, PROVIDE EACH LAVATORY, SINK, WATER COOLER, ETC. WITH A P-TRAP ASSEMBLY CONSISTING OF A CHROME-PLATED (C.P.) CAST BRASS TRAP WITH CLEANOUT PLUG, CHROME PLATED TUBING OUTLET (MIN. 18 GA.), AND CHROME PLATED CAST BRASS ESCUTCHEON WITH SETSCREW.
6. PROVIDE EACH FIXTURE WHICH REQUIRES COLD AND/OR HOT WATER (EXCEPT FLUSH VALVES) WITH A SUPPLY/STOP ASSEMBLY CONSISTING OF A C.P. BRASS STOP VALVE (MIN. 1/2") WITH LOOSE KEY HANDLE AND LOCK SHIELD, STAINLESS STEEL FLEXIBLE RISER, C.P. BRASS NIPPLE, AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
7. FOR EACH PUBLIC LAVATORY OR SINK WITH EXPOSED DRAIN AND BOTH COLD AND HOT SUPPLY COMPONENTS, PROVIDE A MANUFACTURED INSULATION KIT MADE FROM MOLDED CLOSED CELL VINYL THAT IS 'ANTI-MICROBIAL, FORM FITTING, AND SEAMLESS. EACH KIT SHALL COVER THE TAILPIECE, P-TRAP, WALL BEND, BOTH WATER SUPPLY STOPS, AND BOTH WATER RISERS. KITS SHALL BE EQUAL OR EQUIVALENT TO "PROWRAP" 'BY McGUIRE OR LAV-GUARD BY TRUEBRO.
8. ALL FAUCETS, WATER COOLERS, AND DRINKING FOUNTAINS SHALL BE TO NSF 61 AND LISTED WITH NSF.
9. PROVIDE ACCESS DOORS FOR ANY CONCEALED VALVES, SHOCK ABSORBERS, AIR GAP FITTINGS AND ANY OTHER CONCEALED FIXTURES THAT REQUIRED MAINTENANCE.
10. MOUNTING LOCATIONS OF FLUSH VAVLES, FIXTURES, ACCESS DOORS, ETC? SHALL BE CAREFULLY COORDINATED WITH STRUCTURE, GRAB-BARS, CABINET WORK, ETC. TO ALLOW FOR PROPER ACCESSIBILITY AND MAINTENANCE.
11. WHERE ARCHITECTURAL PLANS SHOW WATER CLOSETS AND URINALS, PROVIDE AND INSTALL FLUSHING VALVE SUCH THAT FLUSH HANDLE IS ON WIDE SIDE OF WATER CLOSET, THAT IS, THE SIDE AWAY FROM THE ADJACENT WALL.
12. ALL OPEN DRAINS (FLOOR DRAINS, TRENCH DRAINS, SHOWER DRAINS, FLOOR SINKS, ETC.) TO THE OFFICE AND OUR OCCUPIED SPACE NEEDS TO HAVE A SURE SEAL TRAP GUARD.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	VOLUME	INLET TEMPERATURE	TEMPERATURE RISE	RECOVERY RATE (GPH)	NUMBER OF ELEMENTS	ELEMENT WATTAGE	VOLTAGE	PHASE	AMPS	SHIPPING WEIGHT (LBS)
WH-1	A. O. Smith	DEL-40	40.0 GAL	60 °F	80 °F	25	2	5000 W	208 V	1	24 A	125

NOTES:

1. MANUFACTURER IS A. O. SMITH. STATE AND RHEEM ARE CONSIDERED EQUIVALENT MANUFACTURERS.
2. HEATERS ARE NON-SIMULTANEOUS OPERATION.
3. EACH WATER HEATER SHALL HAVE LONG LIFE ZINC PLATED COPPER SHEATH ELEMENTS, BRASS DRAIN VALVE, GLASS LINED TANK, THERMOSTAT, AND HIGH LIMIT.
4. EACH WATER HEATER SHALL HAVE TANK INSULATION WITH A MINIMUM R-VALUE OF 20 AND SHALL MEET THE REQUIREMENTS OF I.C.C. ENERGY CONSERVATION CODE, SECTION 504.2.
5. PROVIDE AND INSTALL EXPANSION TANK. TANK CAPACITY SHALL BE 4.0 GALLON. TANK SHALL BE AMTROL MODEL THERM-X-TROL ST-12 OR APPROVED EQUIVALENT.
6. WATER HEATER SHALL HAVE A COMMERCIAL WARRANTY OF 3 YEARS ON THE TANK AND 1 YEAR ON PARTS.
7. PROVIDE WITH WATER HEATER STAND . MANUFACTURER IS OATLEY, MODEL NUMBER – 34057.

RECIRCULATION PUMP SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	PUMP TYPE	MOTOR POWER	MAXIMUM WORKING PRESSURE	FLOW RATE	PUMP HEAD (FT)	VOLTAGE	PHASE
CP	TACO	008-B	IN-LINE	0.025 HP	125.00 PSI	10 GPM	15	115 V	1

NOTES:

1. BRONZE BODY, STAINLESS STEEL CARTRIDGE, NONMETALLIC IMPELLER. CONTROLLED BY TACO SP115-1 SMART PLUG.

Project Name: ROHOVEC Building - NMSU Alamogordo

Date Calculated: 2/11/2025

Waste Drain Main Sizing

TOTAL FIXTURE UNITS:	43	FIXTURE UNITS
SEWER SERVICE SLOPE	0.1250	INCHES/FOOT
SEWER SERVICE ENTRY SIZE:	4.00	INCHES (MIN. 3")

Water Entry Main Sizing

TOTAL FIXTURE UNITS:	61.00	FIXTURE UNITS
PREDOMINATE FIXTURE TYPE:	VALVE	FLUSH VALVE OR TANK TYPE
EXPECTED WATER FLOW RATE:	46.89	APPROXIMATE GPM
WATER ENTRY SIZE:	2.00	INCHES
ESTIMATED WATER METER SIZE	1-1/2	INCHES

Fixture Totals =	Qty. 21	WFU Each	Total WFU 61.00	DFU Each	Total DFU 43.00
Lavatory / Hand Sink	7	2.0	14.00	1.00	7.00
Service Sink	1	3.0	3.00	2.00	2.00
Items Requiring Only Cold Water:					
Water Closet - valve low flow 1.6 gal	6	6.0	36.00	4.00	24.00
Urinal - valve 3/4" low flow	1	5.0	5.00	2.00	2.00
Drinking Fountain / EWC	2	0.3	0.50	1.00	2.00
Floor Drain w/ Trap Primer	2	0.3	0.50	2.00	4.00
Hose Bibb / Wall Hydrant	2	1.0	2.00	1.00	2.00

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ROHOVEC BUILDING REMODEL
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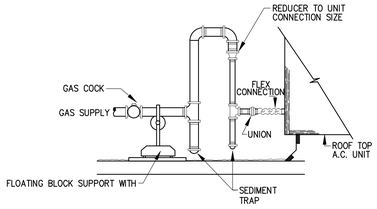
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Project No.: NMSU2023-01

P011

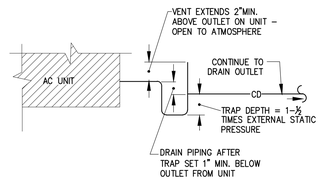
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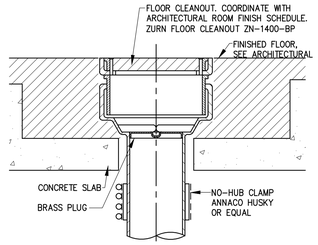
1 P021 TYPICAL AC GAS PIPE SUPPORT & CONNECTION SCHEMATIC

SCALE: NONE



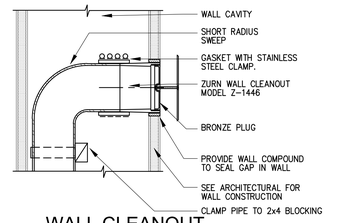
2 P021 CONDENSATE DRAIN TRAP SCHEMATIC

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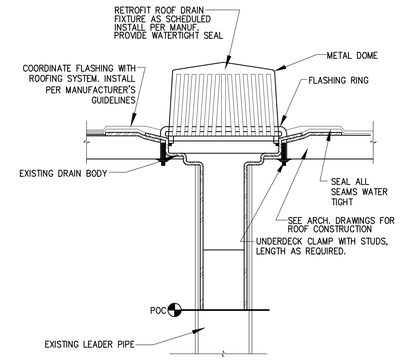
3 P021 FLOOR CLEANOUT INSTALLATION SCHEMATIC

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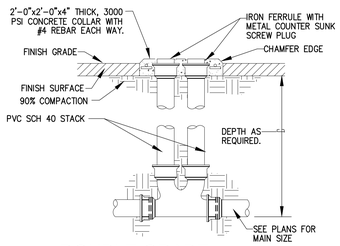


4 P021 WALL CLEANOUT INSTALLATION SCHEMATIC

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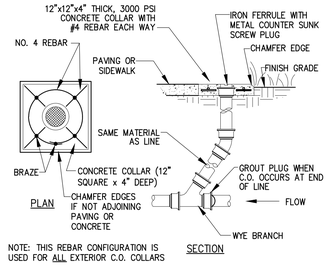


5 P021 ROOF DRAIN (RD) SCHEMATIC



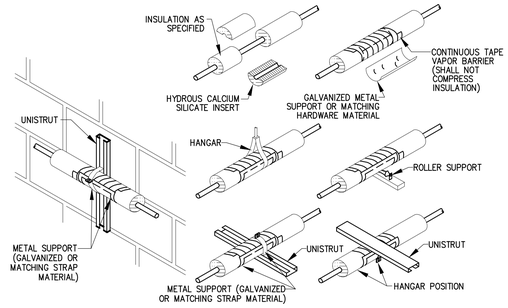
6 P021 DOUBLE GRADE CLEANOUT SCHEMATIC

SCALE: NONE



7 P021 CLEANOUT TO GRADE SCHEMATIC

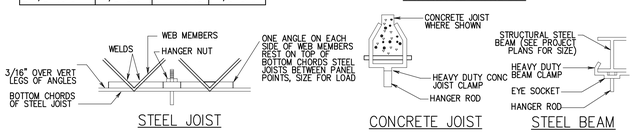
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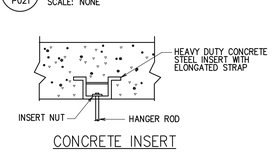
8 P021 INSULATED PIPE SUPPORT SCHEMATICS

SCALE: NONE

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA	4" THRU 6"	5/8" DIA.
2-1/2" TO 3"	1/2" DIA	6" THRU 12"	7/8" DIA.

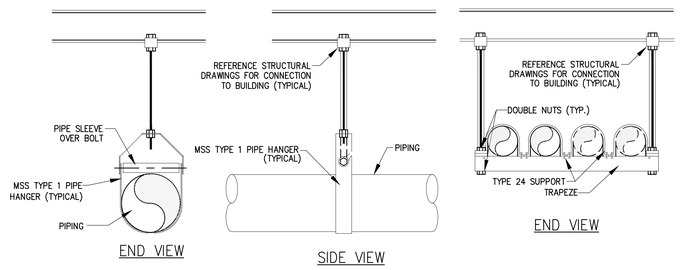


STEEL JOIST | CONCRETE JOIST | STEEL BEAM



CONCRETE INSERT

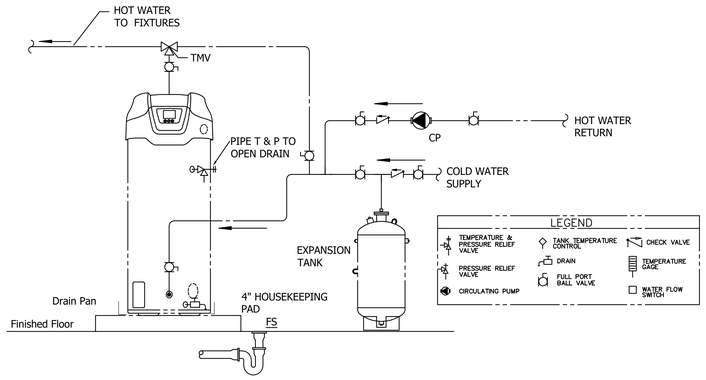
ANCHOR TYPES - WHEN NOT SPECIFIED BY STRUCTURAL



INDIVIDUAL PIPE SUPPORT | MULTIPLE TRAPEZE PIPE SUPPORT

9 P021 PIPE HANGER SCHEMATICS - SEE "INSULATED PIPE SUPPORT" SCHEMATICS FOR INSULATED PIPING

SCALE: NONE



10 P021 WATER HEATER SCHEMATIC

SCALE: NONE

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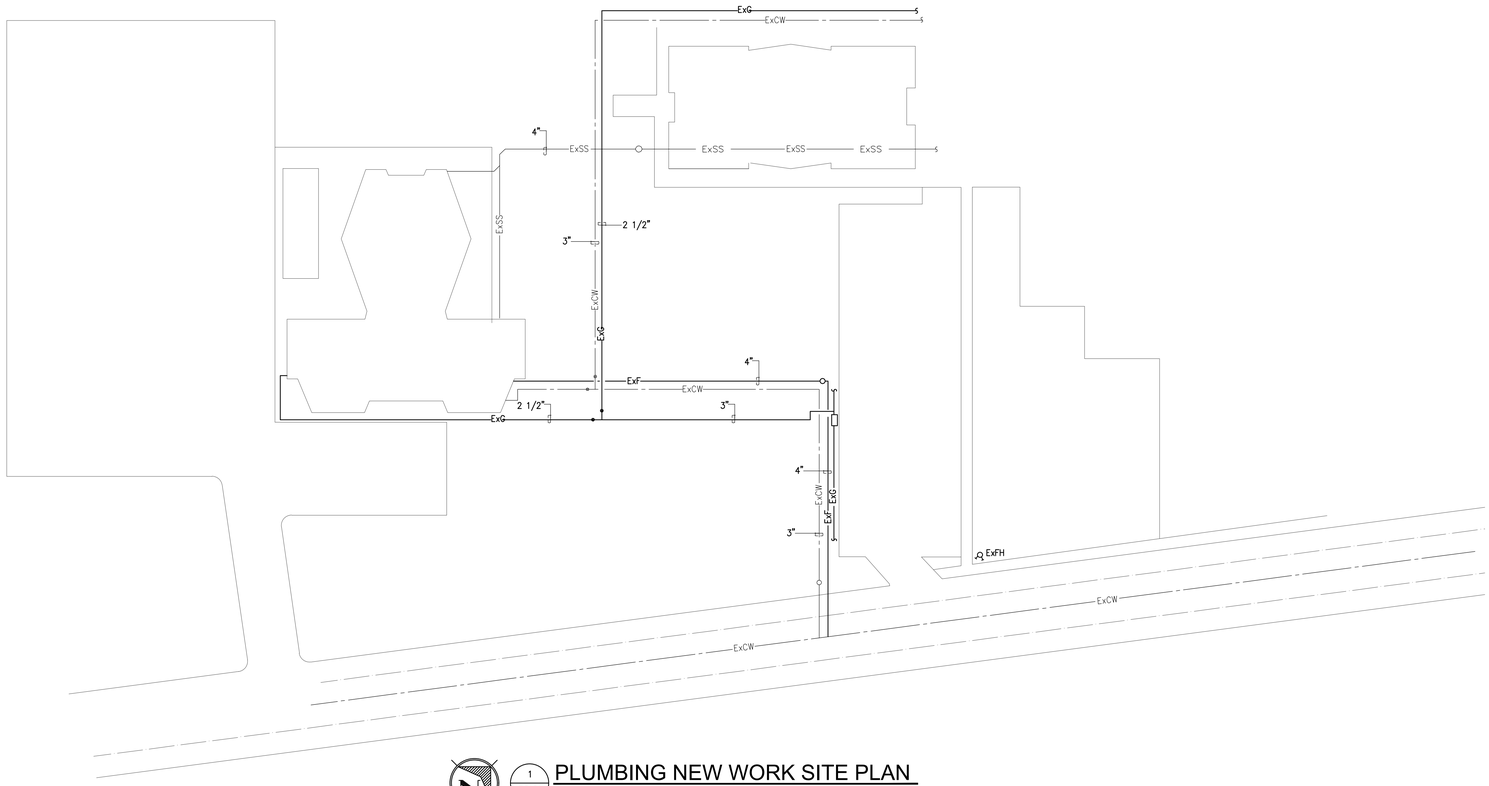
Title: PLUMBING SCHEMATICS

Project No. NMSU2023-01

P021

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1 PS101 PLUMBING NEW WORK SITE PLAN

SCALE: 1"=30'-0"

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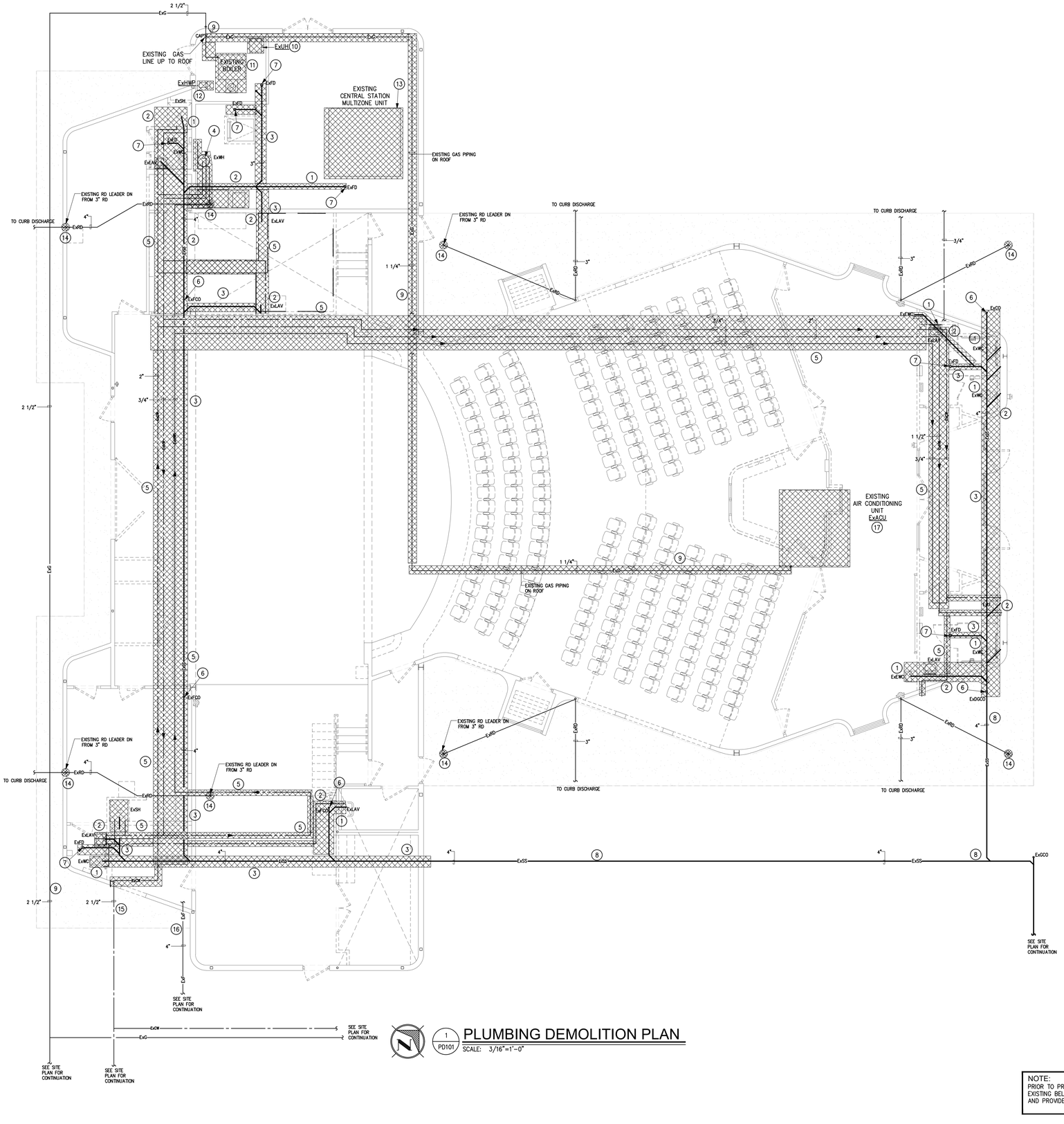
Title: PLUMBING NEW WORK SITE PLAN

Project No.: NMSU2023-01

PS101

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1 PD101 PLUMBING DEMOLITION PLAN

SCALE: 3/16"=1'-0"

DRAWING KEYED NOTES:

1. COMPLETELY REMOVE ALL PLUMBING FIXTURES INCLUDING ALL PIPING (DWV, WATER, ETC.) AND ASSOCIATED COMPONENTS. CAP SEWER AT GRADE.
2. PORTION OF EXISTING BELOW GRADE SEWER LINE TO BE REMOVED AND REPLACED WITH NEW. CUT-REPAIR FLOOR/SLAB AS REQUIRED.
3. EXISTING BELOW GRADE SEWER LINE TO BE ABANDONED IN PLACE. CAP BELOW GRADE AND CUT-REPAIR FLOOR/SLAB AS REQUIRED.
4. COMPLETELY REMOVE EXISTING WATER HEATER INCLUDING ALL PIPING AND ALL ASSOCIATED COMPONENTS.
5. COMPLETELY REMOVE ALL EXISTING ABOVE CEILING WATER PIPING AND HANGERS.
6. COMPLETELY REMOVE EXISTING CLEAN OUT (ExGCO), (ExCO), (ExFCO) & (ExDGCO) TO BELOW F.F. AND CAP.
7. COMPLETELY REMOVE EXISTING FLOOR DRAIN (ExFD) TO BELOW F.F. AND CAP.
8. EXISTING SITE SEWER LINE (ExSS) TO REMAIN FOR RE-USE. PROTECT DURING CONSTRUCTION.
9. EXISTING SECTION OF GAS PIPING TO BE REMOVED BACK TO LOCATION SHOWN AND CAPPED. SEE NEW WORK PLAN FOR MORE INFORMATION.
10. COMPLETELY REMOVE EXISTING UNIT HEATER INCLUDING ALL PIPING AND ALL ASSOCIATED COMPONENTS.
11. COMPLETELY REMOVE EXISTING BOILER INCLUDING ALL PIPING AND ALL ASSOCIATED COMPONENTS.
12. COMPLETELY REMOVE EXISTING HOT WATER WATER PUMP INCLUDING ALL PIPING AND ALL ASSOCIATED COMPONENTS.
13. COMPLETELY REMOVE EXISTING CENTRAL STATION MULTIZONE UNIT INCLUDING ALL PIPING AND ALL ASSOCIATED COMPONENTS.
14. EXISTING ROOF DRAIN PIPING (ExRD) TO REMAIN. EXISTING ROOF DRAIN FIXTURE TO BE MODIFIED FOR NEW ROOF DRAIN. SEE NEW WORK PLAN FOR MORE INFORMATION.
15. EXISTING SITE DCW LINE (ExCW) TO REMAIN. PROTECT DURING CONSTRUCTION.
16. EXISTING SITE FIRE PROTECTION LINE (ExF) TO REMAIN. PROTECT DURING CONSTRUCTION.
17. EXISTING ROOF MOUNTED AIR CONDITIONING UNIT AND ALL ASSOCIATED ACCESSORIES ARE TO BE REMOVED IN THEIR ENTIRETY. FIELD COORDINATE ACTUAL LOCATION OF EXISTING ROOF MOUNTED AIR CONDITIONING UNIT.

GENERAL NOTES:

A. ALL EQUIPMENT & PIPING SHOWN ON THIS SHEET IS EXISTING AND ASSUMED FROM WALK-THRUS. NO AS-BUILT PLANS AVAILABLE.

B. NOT ALL EXISTING EQUIPMENT, PIPING, PLUMBING, FIXTURES ETC. SHOWN ON PLAN. CONTRACTOR SHALL REMOVE ALL UNUSED/ABANDONED EQUIPMENT, PLUMBING AND PIPING THAT ARE NOT PART OF THE NEW WORK PLUMBING PLAN.

C. NEW MEXICO STATE UNIVERSITY-ALAMOGORDO CAMPUS HAS FIRST RIGHT OF REFUSAL FOR ANY EQUIPMENT SHOWN TO BE DEMOLISHED.

NOTE:
PRIOR TO PROJECT START, PLUMBER TO CAMERA AND SCOPE EXISTING BELOW GRADE SEWER PIPING WITHIN AREA OF WORK AND PROVIDE STATUS OF EXISTING SEWER PIPE CONDITION.

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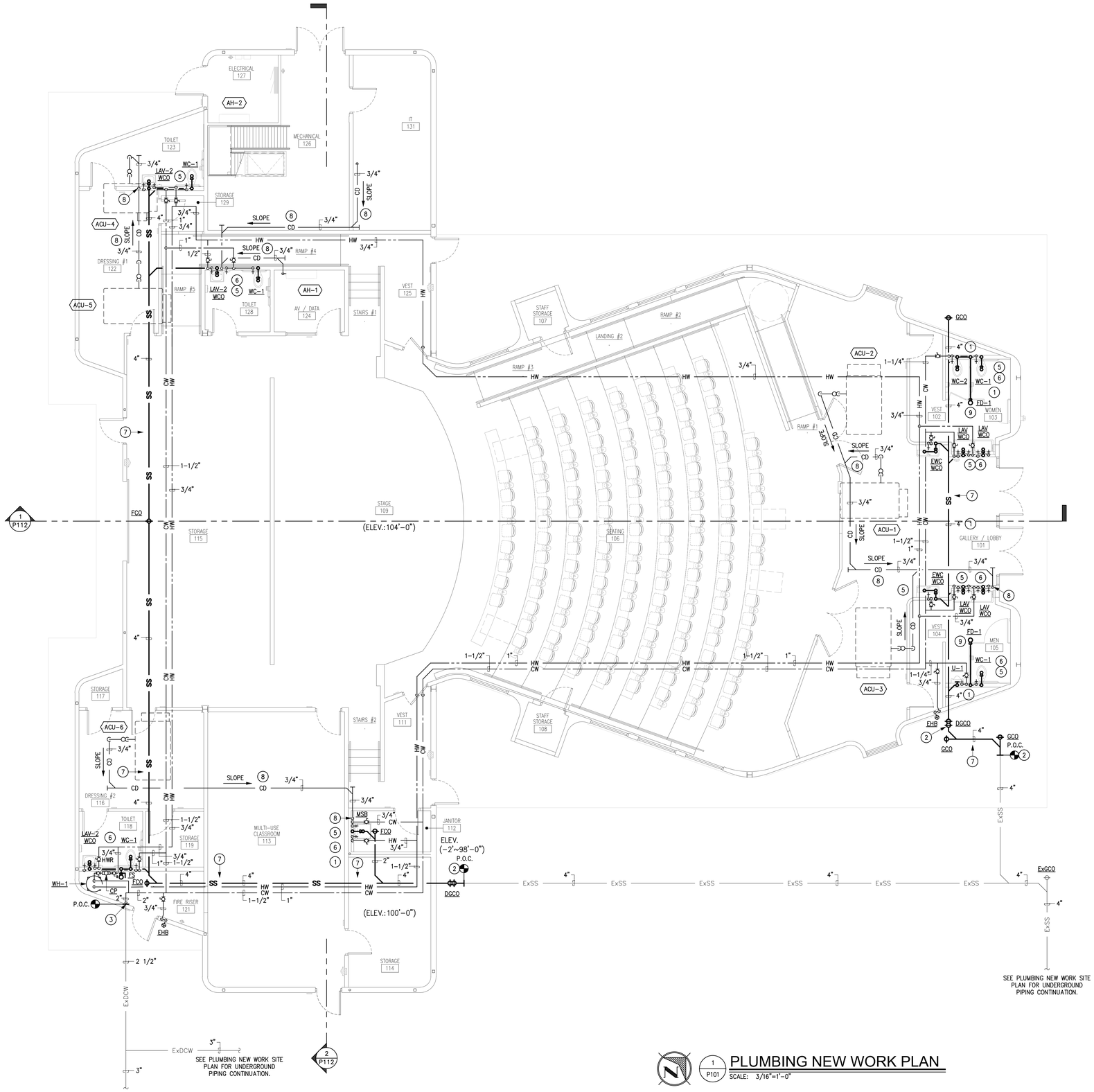
ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

Title: PLUMBING DEMOLITION PLAN
Project No.: NMSU2023-01

PD101

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GENERAL NOTES:

- PLUMBING PLANS REFLECT PLUMBING WORK WITHIN BUILDING.
- REFER TO CIVIL DRAWINGS FOR ALL SITE UTILITY WORK BEYOND THE BUILDING FOOTPRINT AND COORDINATE WORK.
- REFER TO ARCHITECTURAL PLANS FOR FIXTURE MOUNTING HEIGHTS.
- REFER TO STRUCTURAL PLANS FOR FOOTING(S) SPOT AND CONTINUOUS. PERIMETER OF BUILDING FOOTING 36" DEEP, ROUTE SEWER PIPING BELOW FOOTING KEEPING A MINIMUM OF 12" CLEAR.

DRAWING KEYED NOTES:

1. INSTALL NEW BELOW GRADE SEWER PIPING. CUT/REPAIR FLOOR/SLAB AS REQUIRED.
2. EXTEND NEW SEWER LINE AND CONNECT TO EXISTING MAIN. PROVIDE NEW DGCO.
3. EXTEND NEW WATER LINE AND CONNECT TO EXISTING MAIN.
4. INSTALL NEW WATER HEATER IN ROOM, PROVIDE WITH STAND AND SEISMIC SUPPORT. EXTEND DRAIN & RELIEF PIPING TO MOP SINK.
5. SAW CUT EXISTING CONCRETE AS REQUIRED TO INSTALL NEW WASTE LINE FOR FIXTURE.
6. CONTRACTOR TO EXTEND & CONNECT NEW VENT PIPING TO EXISTING MAIN. FIELD VERIFY LOCATION.
7. CONTRACTOR TO EXTEND & CONNECT NEW SANITARY SEWER LINE TO EXISTING MAIN. SAW CUT EXITING FLOOR AS REQUIRED FOR INSTALLATION OF SANITARY SEWER. FIELD VERIFY ACTUAL LOCATION.
8. CONDENSATE PIPING TO BE LOCATED IN CEILING SPACE, EXTEND THRU ROOF, SEAL AND FLASH ROOF PENETRATION AND PROVIDE APPROVED ROOFING PIPE PORTAL. TERMINATE CONDENSATE DRAIN LINE DOWN INSIDE WALL TO NEW SINK.
9. CONTRACTOR TO PROVIDE AND INSTALL A PRO SET TRAP GUARD IN FLOOR DRAIN.

PLUMBING NEW WORK PLAN

SCALE: 3/16"=1'-0"

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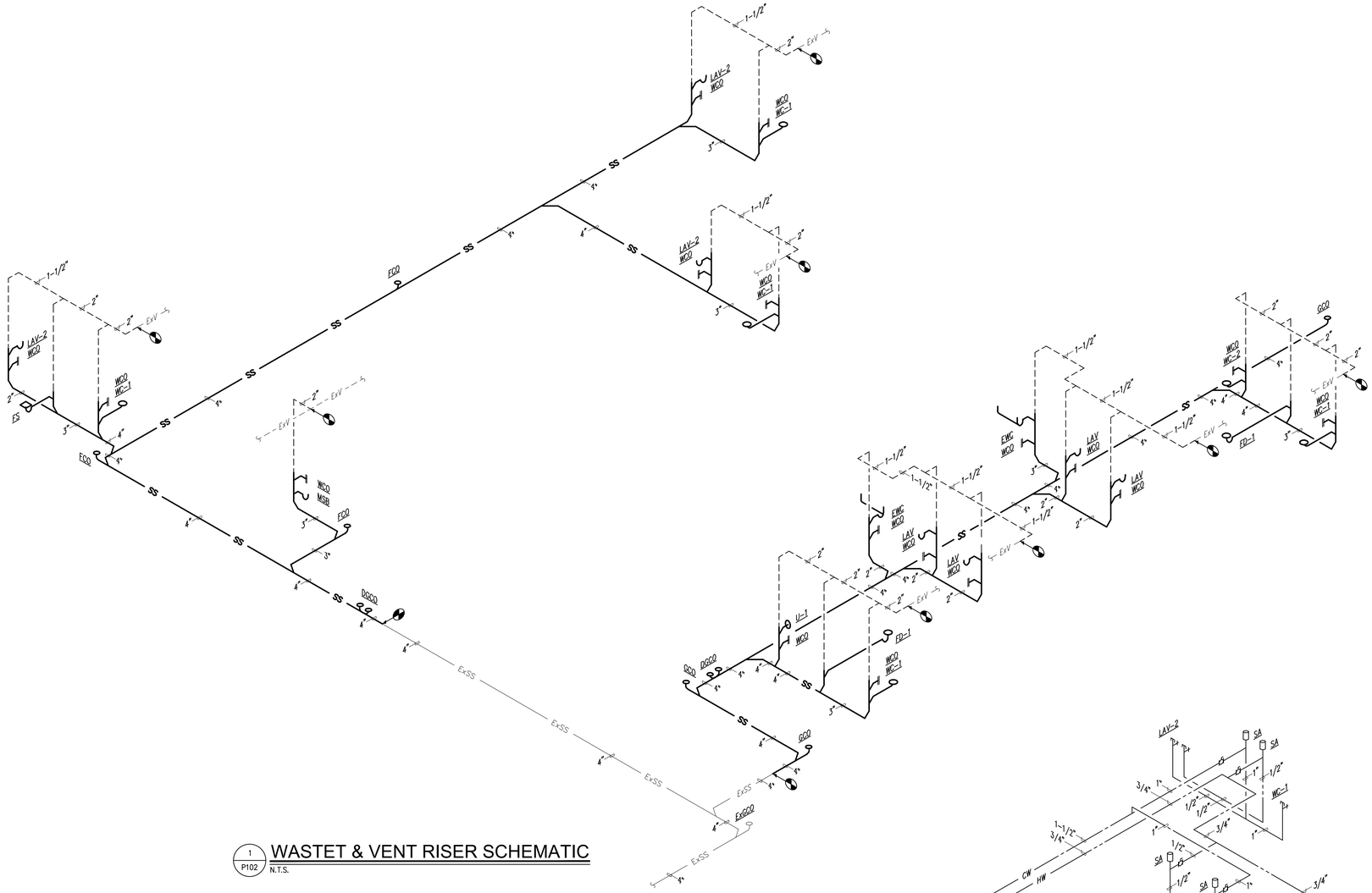
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Revisions:

Title: PLUMBING NEW WORK PLAN
Project No: NMSU2023-01

P101

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1 P102 WASTET & VENT RISER SCHEMATIC
N.T.S.

2 P102 HOT & COLD WATER RISER SCHEMATIC
N.T.S.

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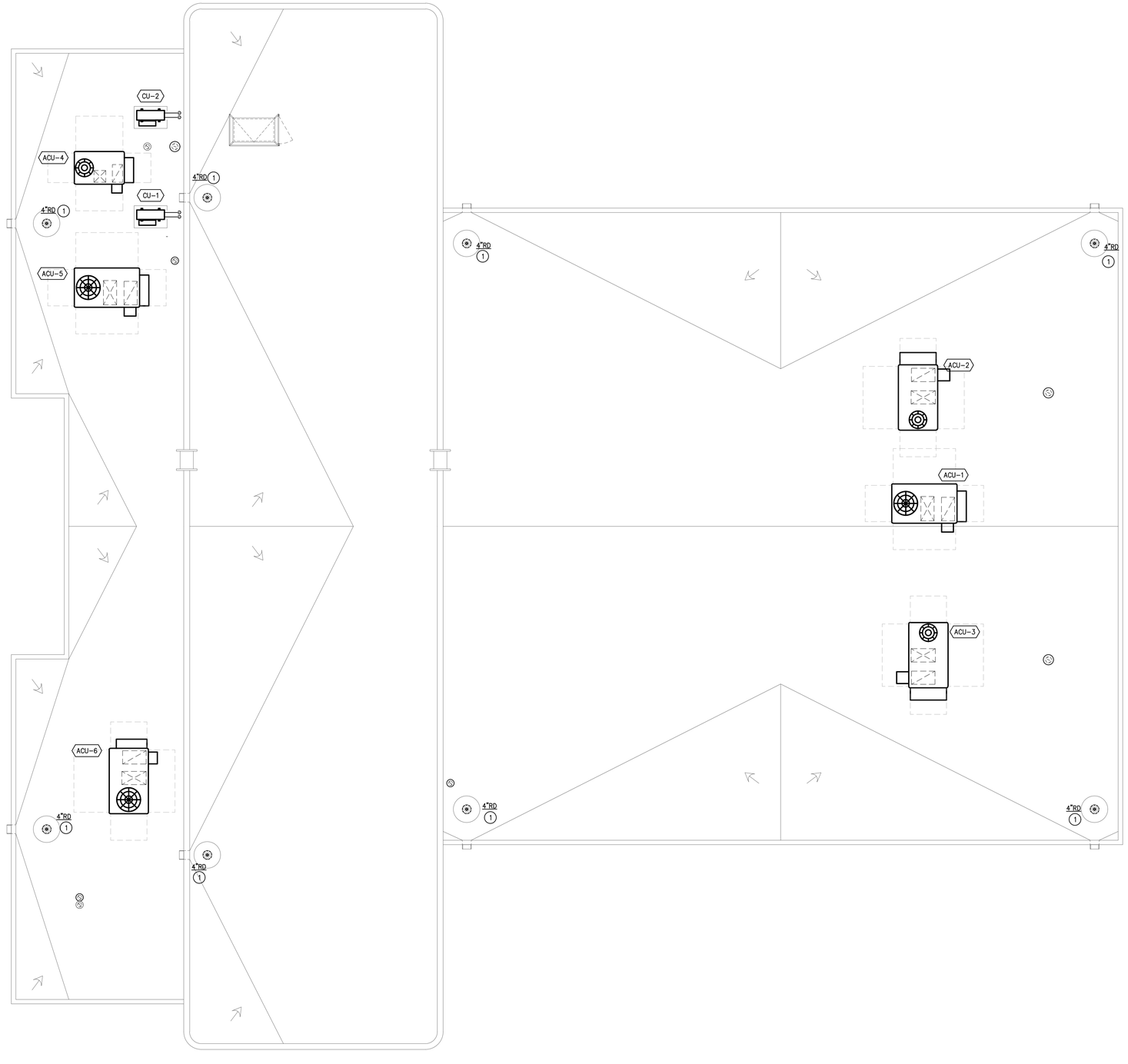
Title: PLUMBING
RISER SCHEMATICS

Project No: NMSU2023-01

P102

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DRAWING KEYED NOTES:

1. CONNECT/INSTALL NEW ROOF DRAIN FIXTURE INTO EXISTING ROOF DRAIN AND LEADER PIPE. SECURE DRAIN FIXTURE IN PLACE AND PROVIDE WATERTIGHT SEAL. FOLLOW MANUFACTURER'S INSTRUCTIONS.

1 / P111 PLUMBING NEW WORK ROOF PLAN

SCALE: 3/16"=1'-0"

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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025 | Scale: AS SHOWN
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Revisions:

Title: PLUMBING NEW WORK ROOF PLAN

Project No.: NMSU2023-01

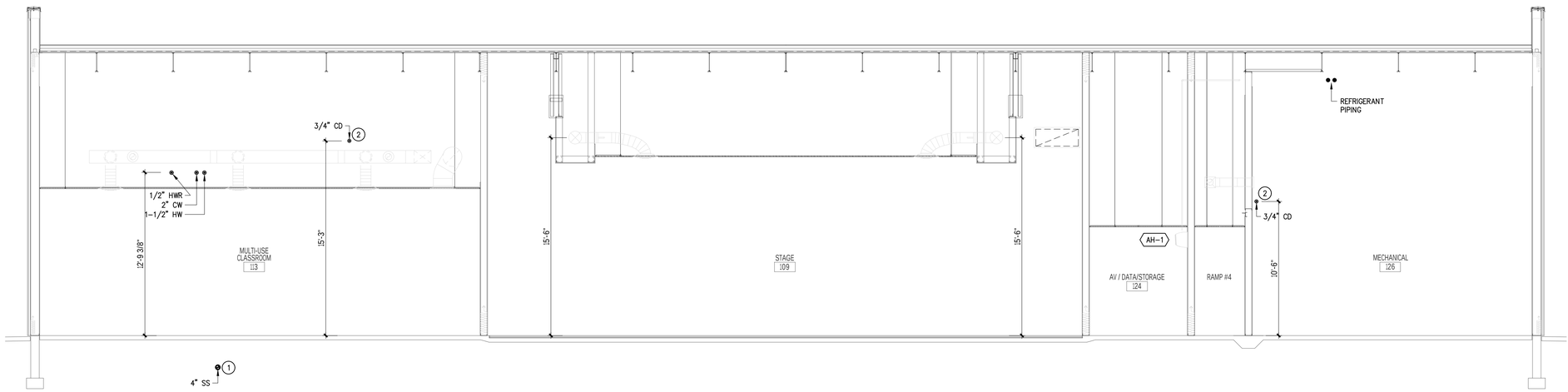
P111

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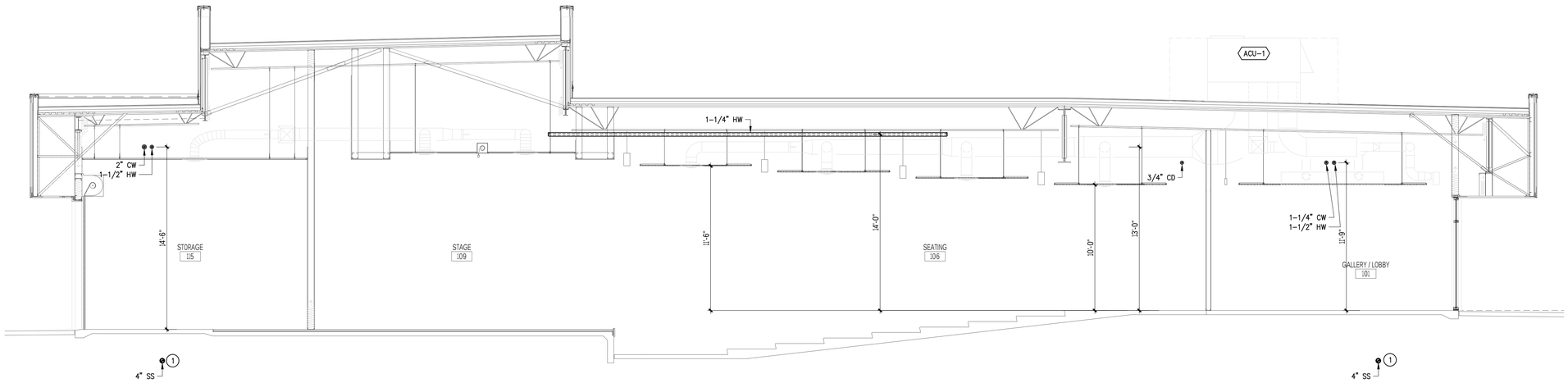
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DRAWING KEYED NOTES:

1. INSTALL NEW BELOW GRADE SEWER PIPING. CUT/REPAIR FLOOR/SLAB AS REQUIRED.
2. CONDENSATE PIPING TO BE LOCATED IN CEILING SPACE, EXTEND THRU ROOF, SEAL AND FLASH ROOF PENETRATION AND PROVIDE APPROVED ROOFING PIPE PORTAL. TERMINATE CONDENSATE DRAIN LINE DOWN INSIDE WALL TO NEW SINK



1 P112 PLUMBING SECTION "B"
SCALE: 3/16"=1'-0"



2 P112 PLUMBING SECTION "A"
SCALE: 3/16"=1'-0"

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/2/2025	Scale: AS SHOWN
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Revisions:

Title: PLUMBING SECTIONS

Project No: NMSU2023-01

P112

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INDOOR FIRE BACKFLOW PREVENTER FIXTURE SCHEDULE

MINIMUM CONNECTIONS					DESCRIPTION	FIXTURE	
SYMBOL	CW	HW	VENT	WASTE		MANUFACTURER	OPTIONS
FRBFP	6"	–	–	–	FIRE REDUCED PRESSURE DETECTOR ASSEMBLY FIRE SPRINKLER REDUCED PRESSURE BACKFLOW PREVENTER – DETECTOR TYPE UL LISTED FOR FIRE SPRINKLER SYSTEM USE, DUCTILE IRON BODY, STAINLESS STEEL SPRINGS, REDUCED PRESSURE BACKFLOW PREVENTER, OS & Y GATE VALVES, DETECTOR ASSEMBLY SIDESTREAM METER. LESS THAN 10 PSI LOSS AT 400 GPM.	WILKINS – 475DAV	PROVIDE WITH OS&Y VALVE, SIDE STREAM METER, TAMPER SWITCHES, AIR–GAP FITTING FOR MISC. DISCHARGE AND EXTEND DRAIN PIPING TO OUTDOORS. DRAIN FITTING – ZURN Z199–DC.

FIRE PROTECTION PUMP SCHEDULE

Mark	Manufacturer	Model	Description	Flow Rate	Pump Head (FT)	Motor Power	Voltage	Phase	Rated Speed (RPM)
FP	ARMSTRONG	SERIES 4300 3x3x8 FM	VERTICAL IN–LINE PUMP	300	175	20.0	208	3	3600

NOTES:
1. PROVIDE WITH A JOCKEY PUMP (PRESSURE MAINTENANCE PUMP) TOMAINTAIN THE PRESSURE IN THE FIRE SPRINKLER SYSTEM TO AVOID NON–EMERGENCY STARTING OF THE MAIN FIRE PUMP. JOCKEY PUMP TO BE SIZED BY FIRE PROTECTION CONTRACTOR.

MINIMUM PIPE MATERIAL SCHEDULE

SERVICE TYPE	MATERIAL REQUIRED	
FIRE PROTECTION WATER	BELOW GRADE OUTSIDE BUILDING FOOTPRINT	AWWA C900, DUCTILE IRON
	BELOW GRADE UNDER BUILDING	DUCTILE IRON
	ABOVE GRADE/SLAB WITHIN BUILDING *WET SYSTEM	STEEL PIPE SCHEDULE 40 BLACK STEEL, STEEL PIPE SCHEDULE 10 BLACK STEEL FOR MAINS 2 1/2" AND LARGER
	BUILDING FIRE SPRINKLER RISER	STAINLESS STEEL IBR FROM RISER ROOM UNDER FOOTING AND BEYOND FOR 6" WATER MAIN CONNECTION.

UNDERGROUND MAIN GENERAL NOTE:

1. PRIVATE FIRE SERVICE UNDERGROUND MAINS AND APPURTENANCE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENTLY ADOPTED INTERNATIONAL FIRE CODE, UTILITY STANDARDS, AND FIRE DEPARTMENT/FIRE MARSHALL APPROVED PLANS. ANY WORK SHALL REMAIN OPEN AND UNCOVERED UNTIL INSPECTED. WHENEVER ANY INSTALLATION SUBJECT TO INSPECTION IS COVERED OR CONCEALED WITHOUT HAVING FIRST BEEN INSPECTED, THE FIRE CODE OFFICIAL SHALL HAVE THE AUTHORITY TO REQUIRE THAT SUCH WORK BE EXPOSED AND EASILY ACCESSIBLE FOR INSPECTION.

WATER SUPPLY / FIRE FLOW DATA

FIRE SPRINKLER SYSTEM WATER SUPPLY IS FROM THE ON–SITE WELL, STORAGE TANK AND PRESSURE PUMP SYSTEM.
REFER TO CIVIL DRAWINGS FOR SYSTEM ARRANGEMENT, INFORMATION AND DESIGN FLOW, PRESSURES AND SITE PIPING DETAILS.

GENERAL FIRE PROTECTION NOTES:

1. THE FIRE PROTECTION SYSTEM IS DESCRIBED IN THESE DOCUMENTS AS A PERFORMANCE SPECIFICATION ONLY. FIRE PROTECTION INFORMATION INCLUDED ON ALL PLUMBING DOCUMENTS INCLUDING PLANS AND SPECIFICATIONS ARE PROVIDED ONLY FOR GENERAL BIDDING INFORMATION AND SHALL NOT BE CONSIDERED DETAILED CONSTRUCTION DOCUMENTS. ACTUAL DESIGN OF THIS SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION SUB–CONTRACTOR/DESIGNER.
2. THE TERMS "FIRE RISER" AND "F.D.C." ARE GENERIC IN NATURE FOR ALL PLUMBING SHEETS AND INDICATE A POINT OF ENTRY FOR FIRE PROTECTION WATER INTO THE SYSTEM. ACTUAL QUANTITY AND LOCATION OF RISERS AND/OR F.D.C'S AS DEFINED BY NFPA GUIDELINES SHALL BE DETERMINED BY THE FIRE PROTECTION SUB–CONTRACTOR/DESIGNER.
3. THE FIRE PROTECTION COMPONENTS AND SYSTEMS COMPLY WITH APPLICABLE CITY, STATE, AND FEDERAL FIRE PROTECTION CODES AND AUTHORITIES. COORDINATION AND APPROVALS BY THESE CODE AUTHORITIES SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR/DESIGNER.
4. WHERE APPLICABLE, FIRE ALARM AND SPRINKLER MONITORING SYSTEM SHALL BE SPECIFIED BY ELECTRICAL DOCUMENTS. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ALL WORK WITH FIRE ALARM CONTRACTOR.
5. AVOID REDUNDANT MONITORING (I.E. FLOW SWITCH AND HEAT SENSORS) IN ALL SITUATIONS. COORDINATE BETWEEN ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR FIRE ALARM HARDWARE WHETHER OR NOT TO PROVIDE MONITORED FLOW SWITCH.
6. ALL SIZES SHOWN FOR FIRE PROTECTION PIPE AND FITTINGS ARE APPROXIMATE AND ARE SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL SIZES SHALL BE DETERMINED BY FIRE PROTECTION CONTRACTOR/ENGINEER.
7. THE FIRE PROTECTION ZONES AND THEIR OCCUPANCY TYPES FOR THIS BUILDING SHALL BE DEFINED BY NFPA 13. THE FIRE SYSTEM(S) SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND ALL OTHER TRADES TO PROPERLY PROTECT EACH ZONE TYPE. FOR BIDDING PURPOSES, REFER TO F–101 FOR GENERAL ZONE DIVISIONS. ASSUME INDEPENDENT MONITORING WA FLOW SWITCH OR OTHER MONITORING DEVICE INTEGRATED WITH CENTRAL FIRE ALARM PANEL FOR EACH ZONE SHOWN. ACTUAL ZONING AND MONITORING SHALL BE DESIGNED BY THE FIRE PROTECTION DESIGNER/SUB–CONTRACTOR AND SHALL CONFORM TO NFPA AND LOCAL FIRE DEPARTMENT REQUIREMENTS.

GENERAL NOTES

A. THIS IS A SYSTEM CONCEPT DRAWING INTENDED TO DISPLAY INFORMATION ONLY TO SHOW POTENTIAL SYSTEM ARRANGEMENT. SUB–CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION CONTAINED ON THESE DRAWINGS AND IS FULLY RESPONSIBLE FOR LAYOUT AND INSTALLATION OF THE SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, FIRE CODE, NFPA, & STATE FIRE MARSHALLS OFFICE. THESE DRAWINGS PROVIDE A CONCEPT LAYOUT WITH PROPOSED RISER ASSEMBLY LOCATION, FLOW SWITCH LOCATION, VALVE LOCATIONS (WITH TAMPER SWITCHES), AND FIRE DEPARTMENT SIAMESE CONNECTIONS. THIS CONCEPT DRAWING DOES NOT SHOW ALL INFORMATION NECESSARY FOR THE INSTALLATION OF THE SYSTEM, BUT IS INTENDED TO BE USED AS A GUIDE BY THE CONTRACTOR FOR THE PURPOSE OF DESIGNING THE SYSTEM AND PREPARING HIS BID. SUB–CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT REQUIRED FOR SUCH SYSTEM. SUB–CONTRACTOR'S DETAILED AND STAMPED BY A FIRE PROTECTION ENGINEER INSTALLATION DRAWINGS OF THE COMPLETE FIRE PROTECTION SPRINKLER AND STANDPIPE SYSTEM SHALL BE SUBMITTED TO THE NEW MEXICO STATE FIRE MARSHAL'S OFFICE, AND LOCAL AUTHORITY HAVE JURISDICTION, AND THE ENGINEER FOR APPROVAL.

B. THIS DRAWING SHALL SERVE AS A SCHEMATIC DRAWING FOR CONTRACTOR. THE EXACT PLACEMENT OF FIRE SUPPRESSION EQUIPMENT SHALL NOT CONFLICT WITH ANY MECHANICAL, STRUCTURAL, ELECTRICAL, OR ARCHITECTURAL FEATURE. THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM PLACEMENT OF EQUIPMENT OR MATERIAL NOT REVIEWED PRIOR TO INSTALLATION.

C. ALL NEW CONSTRUCTION IS TYPICALLY STEEL, NON–COMBUSTIBLE CONSTRUCTION.

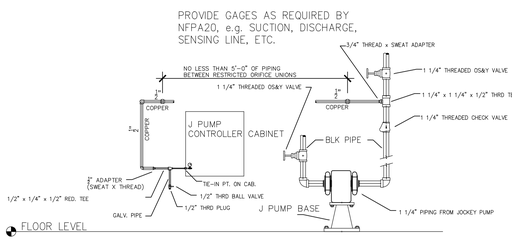
D. ALL AREAS CONTAINING FIRE SPRINKLERS SHALL BE HEATED UNLESS INDICATED OTHERWISE.

E. CONTRACTOR TO VERIFY WITH FIRE MARSHALL ACTUAL LOCATION OF FDC'S.

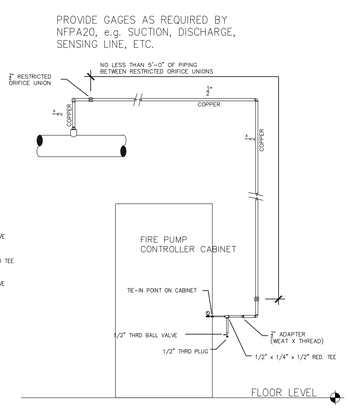
F. ALL WORK SHALL BE IN ACCORDANCE WITH:
INTERNATIONAL BUILDING CODE (IBC 2021)
INTERNATIONAL FIRE CODE (IFC 2021)
UNIFORM PLUMBING CODE (UPC 2021)
UNIFORM MECHANICAL CODE (UMC 2021)
NFPA 13 FIRE PROTECTION CODE (2000)
NFPA 101 LIFE SAFETY CODE (2000)
OTHER REGULATIONS BY AUTHORITIES HAVING JURISDICTION
2021 NM PLUMBING CODE
2021 NM MECHANICAL CODE
2021 NM COMMERCIAL BUILDING CODE

THE ENTIRE BUILDING SHALL BE PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, IFC, AND STATE FIRE MARSHALL OFFICE REQUIREMENTS.

NEW MEXICO "ONE CALL SYSTEM"
IT'S THE LAW
CALL TWO WORKING DAYS BEFORE YOU DIG IN NEW MEXICO #1–800–321–2537 (US) #811 (NM)

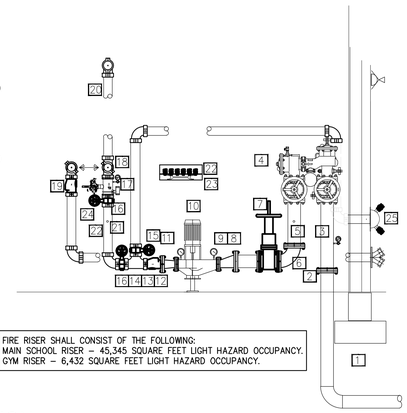


JP CONTROLLER SENSING LINE SCHEMATIC
C1 SCALE: NONE



PUMP CONTROLLER SENSING LINE SCHEMATIC
C2 SCALE: NONE

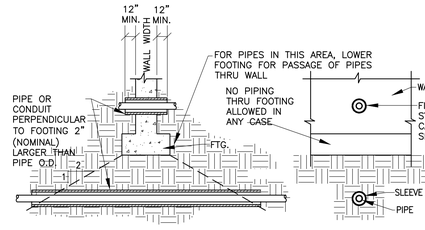
1. 6" UNDERGROUND SUPPLY MAIN, 6" SS IBR.
2. 6x11" FLG AT 12" AFF
3. 6" SPOOL PIECE W/ CITY SIDE 300# GAUGE PAC.
4. 6" BACKFLOW PREVENTER (DBL. CHECK) w/ OS&Y VALVES AND TAMPER SW. (NORM OPEN)
5. 6" SPOOL PIECE w/POL (JP SUCTION)
6. 6" FLG 90 ELL
7. 6" OS&Y w/ TAMPER SW. (NORM OPEN)
8. 6x3 FLG ECCENTRIC REDUCER
9. PUMP SUCTION SIDE GAUGE
10. ARMSTRONG VERT. INLINE PUMP 3x3x8 FM, 20 HP, 3PH, 208 V, 60HZ (SEE DATA SHEETS) 300 GPM @ 50 PSI, (SEE DATA SHEETS)
11. PUMP DISCHARGE SIDE GAUGE
12. 3x4 CONCENTRIC REDUCER
13. 4" GRV CHK VALVE
14. 4" GRUV. TO PUMP TEST HEADER
15. 4" GRV BUTTERFLY VALVE w/ TAMPER SW (NORM CLOSED)
16. 4" BUTTERFLY VALVE w/ TAMPER SW SYSTEM CONTROL VALVE (NORM OPEM)
17. 4" READY RISER w 175# RELIEF
18. 4" GRV TEE t/ FDC
19. 4" GRV CHECK VALVE (FDC)
20. 4" TO SPRINKLER SYSTEM
21. POL FOR JOCKEY PUMP DISCHARGE & PUMP SENSING LINES FOR CONTROLLERS
22. 1 12 SPARE HEAD CABINET w/ REQUIRED WRENCHES
23. HYDRAULIC PLACARD PERMANENTLY AFFIXED
24. 2" MAIN DRAIN PIPING (ROUTE DISCHARGE TO DAYLIGHT)
25. NOTE: BFP FULL FORWARD FLOW TEST PER 8.17.4.5 SHALL BE CONDUCTED USING THE PUMP TEST HEADER VALVES



FIRE RISER SHALL CONSIST OF THE FOLLOWING:
MAIN SCHOOL RISER – 45,345 SQUARE FEET LIGHT HAZARD OCCUPANCY.
GYM RISER – 6,432 SQUARE FEET LIGHT HAZARD OCCUPANCY.

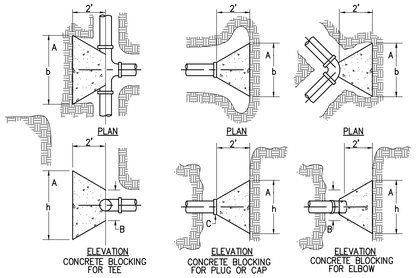
FIRE SPRINKLER PUMP SECTION
C3 SCALE: NONE

NOTES:
1. FOR PIPES 3'–0" OR LESS BELOW FTG., PROVIDE SLEEVES AS SHOWN.
2. FOR PIPES AND CONDUITS MORE THAN 3'–0" BELOW FTG., PIPE SLEEVE CAN BE ELIMINATED.
3. COORDINATE WITH ELECTRICAL, AND ALL OTHER AFFECTED TRADES.



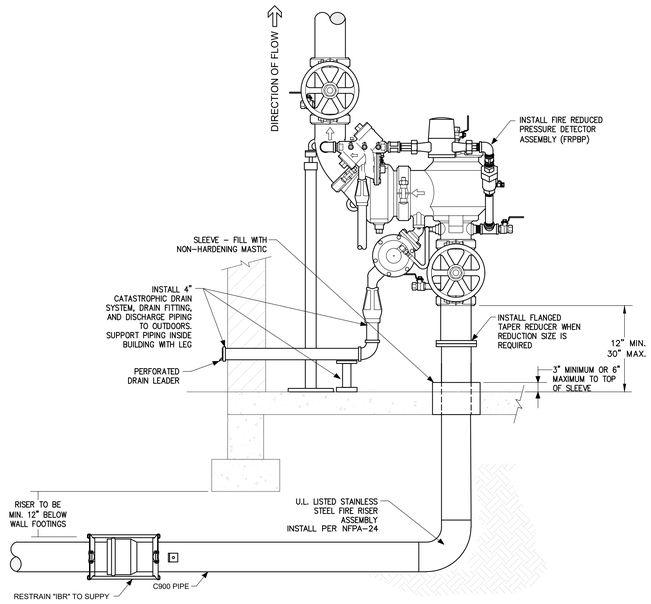
INSTALLATION OF PIPES PERPENDICULAR TO FOOTING SCHEMATIC
A4 SCALE: NONE

PIPE SIZE	ELBOW ANGLE	ELBOW (b) DIM.	ELBOW (h) DIM.	TEE OR PLUG (h)	TEE OR PLUG (b)
4"	–	–	–	2'	2'
4"	90',45'	2'	2'	–	–
4"	22–1/2',11–1/4'	2'	2'	–	–
6"	–	–	–	2'	2'
6"	90',45'	2'	2'	–	–
6"	22–1/2',11–1/4'	2'	2'	–	–
8"	90'	–	–	3'	3'
8"	90'	3'	3'	–	–
8"	45'	2'	2'	–	–
8"	22–1/2',11–1/4'	2'	2'	–	–
10"	–	–	–	3'	3'
10"	90'	3'–6"	–	–	–
10"	45'	3'	3'	–	–
10"	22–1/2',11–1/4'	2'	2'	–	–
12"	–	–	–	3'–6"	3'–6"
12"	90'	4"	4"	–	–
12"	45'	3'–6"	3'–6"	–	–
12"	22–1/2',11–1/4'	2'	2'	–	–
14"	–	–	–	4'	4'
14"	90'	3'	3'	–	–
14"	45'	3'–6"	3'–6"	–	–
14"	22–1/2',11–1/4'	3'	3'	–	–

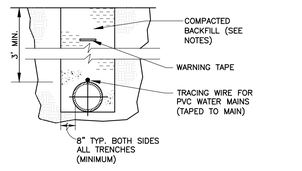


CONSTRUCTION NOTES:
A. UNDISTURBED EARTH
B. O.D. OF PIPE +8"
C. O.D. OF CAP OR PLUG, MIN. 12"x12"

CONCRETE THRUST BLOCK SCHEMATIC
A1 SCALE: NONE

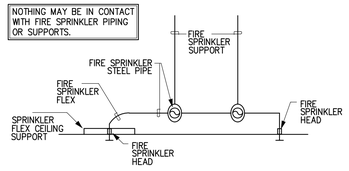


FIRE SUPPLY ENTRANCE WITH FRPBP SCHEMATIC
A2 SCALE: NONE



NOTES:
1. BACKFILL IN UNPAVED STREETS, ALLEYS, AND DRIVEWAYS SHALL BE COMPACTED TO 95% COMPACTION AS DETERMINED BY AASHTO T–180 (ASTM D1557) UNLESS OTHERWISE NOTED
2. TRACING WIRE REQUIRED TO BE PLACED ABOVE ALL MAINS AND TRANSMISSION LINES.
3. TEST BOXES, CONNECTED INTO TRACING WIRE SYSTEM, SHALL BE REQUIRED WHERE HYDRANTS ARE NOT USED OR WHERE HYDRANT SPACING EXCEEDS 500 FEET.
4. TRENCH WIDTHS, CROSS SECTIONS, SHALL BE IN COMPLIANT TO ALL APPLICABLE SAFETY STANDARDS AND REGULATIONS.

FIRE LINE TRENCH SCHEMATIC
B3 SCALE: NONE



FIRE SPRINKLER SCHEMATIC
A3 SCALE: NONE

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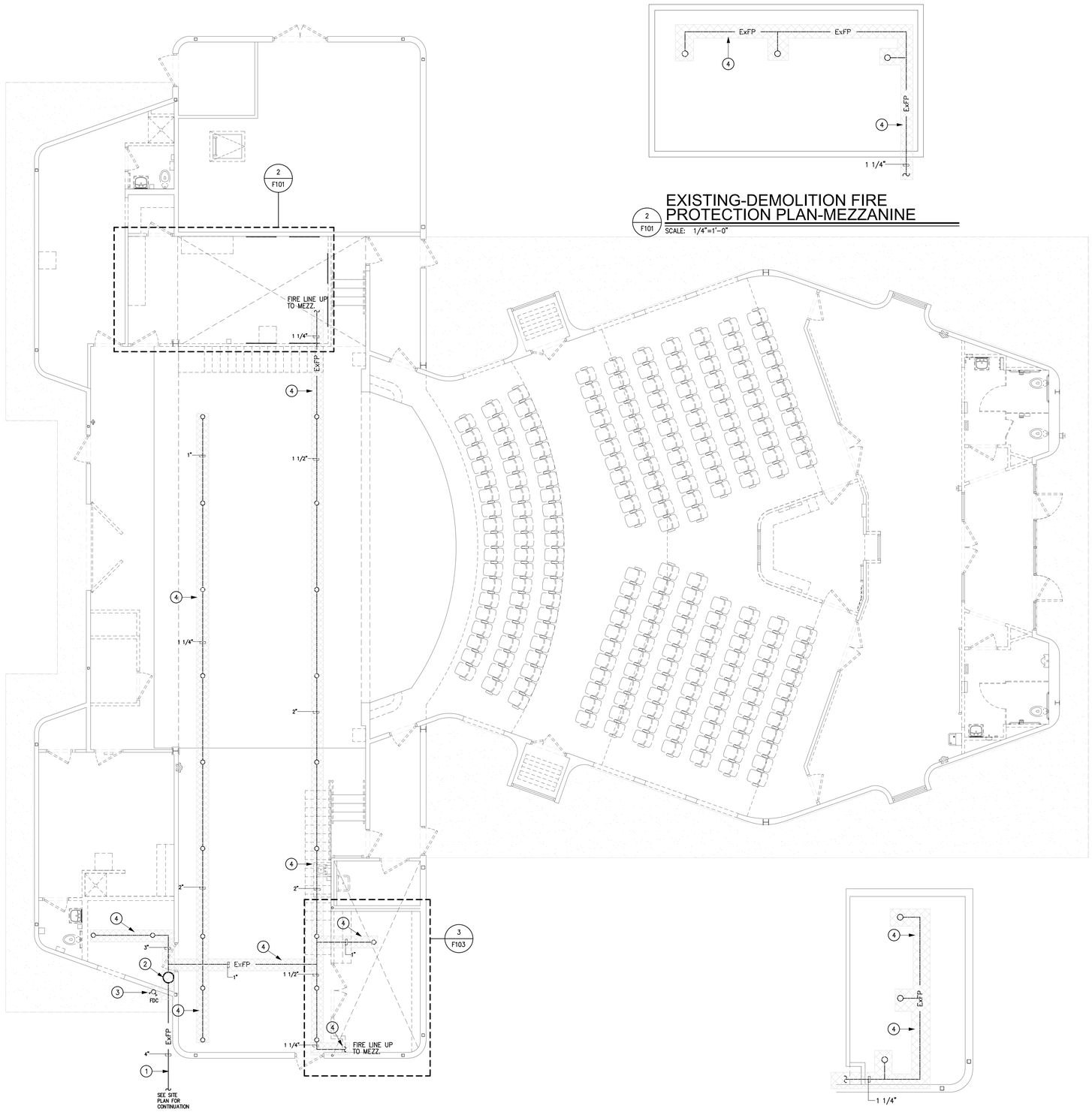
ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/12/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:
Title: FIRE PROTECTION DEMOLITION PLAN
Project No.: NMSU2023-01

F001

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EXISTING-DEMOLITION FIRE PROTECTION PLAN

2 / F101 — SCALE: 1/4"=1'-0"

EXISTING-DEMOLITION FIRE PROTECTION PLAN-MEZZANINE

3 / F101 — SCALE: 1/4"=1'-0"

EXISTING-DEMOLITION FIRE PROTECTION PLAN

1 / F101 — SCALE: 3/16"=1'-0"

EXISTING-DEMOLITION FIRE PROTECTION PLAN-MEZZANINE

3 / F101 — SCALE: 1/4"=1'-0"

KEYED NOTES:

1. EXISTING MAIN FIRE PROTECTION WATER LINE INTO BUILDING.
2. EXISTING FIRE PROTECTION RISER.
3. EXISTING FIRE DEPARTMENT CONNECTION (FDC). TO BE REMOVED IN ITS ENTIRETY.
4. EXISTING FIRE PROTECTION SYSTEM TO BE REMOVED IN ITS ENTIRETY.

CLASSIFICATION OF OCCUPANCY SPECIAL CONDITIONS NOTES:

SPRINKLED AREA: THE ENTIRE BUILDING SHALL BE SPRINKLED UNLESS INDICATED OTHERWISE.

1. JANITOR, MECHANICAL ROOM, ELECTRICAL ROOM, STAIRS, STORAGE, AND COMMUNICATION ROOMS SHALL BE PROTECTED TO AN OCCUPANCY CLASSIFICATION OF ORDINARY HAZARD GROUP 1.
2. CONFERENCE ROOM, LOBBIES, RESTROOMS, GENERAL PURPOSE ROOMS, OFFICES, AND CORRIDORS SHALL BE PROTECTED TO AN OCCUPANCY CLASSIFICATION OF LIGHT HAZARD.

CEILINGS:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPES AND HEIGHTS.

SPRINKLER HEAD APPLICATION

SPRINKLERS

A. Automatic sprinklers shall be of the following types:
   1. All sprinklers shall be quick response type sprinkler heads.
   2. Concealed sprinklers shall be installed in all areas with a finished ceiling of any type. Architect and Authority to select and approve sprinklers.
   3. Standard upright or pendent sprinklers shall be installed in unfinished areas.
   4. Install dry type sprinklers or dry systems in areas where temperatures are not maintained above 40 degrees.
   5. Install intermediate temperature sprinklers near glazing and where temperatures can exceed 100 degrees.
   6. Sprinklers installed exposed and less than 9-feet above the finished floor shall be provided with listed wire guards.

B. The Architect will select finishes for all automatic sprinklers and escutcheons from samples of available finishes supplied by Contractor.

C. All sprinklers within a space shall be from the same manufacturer and have the same heat response element, including temperature rating and response characteristics.

D. It shall be the Contractor's responsibility to install sprinklers of the proper temperature rating as required by NFPA 13.

E. Sprinklers located on exterior piping systems, or located in corrosive atmospheres shall be corrosion resistant galvanized steel piping.

F. Escutcheons shall be metal and be listed with the sprinklers for recessed sprinkler locations.

All sprinklers shall be standard orifice sprinklers (1/2" orifice) unless specifically approved otherwise.

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NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

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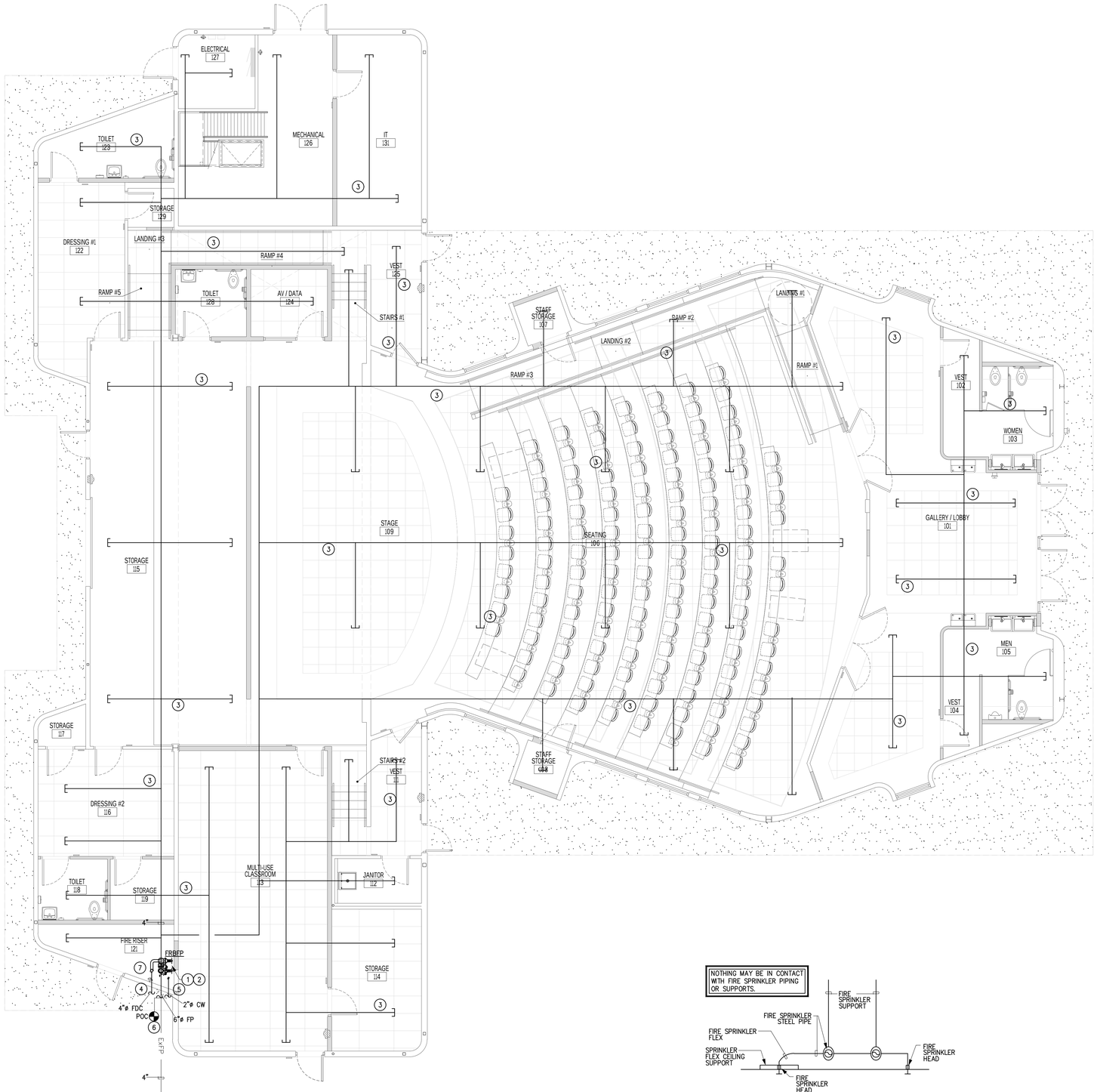
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CEILINGS:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPES AND HEIGHTS.

THE ENTIRE NEW RENOVATION SHALL BE PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, 2015 IFC, AND STATE FIRE MARSHALL OFFICE REQUIREMENTS.



1 / F102 FIRE PROTECTION NEW CONCEPT PLAN
SCALE: 3/16"=1'-0"

2 / F102 FIRE SPRINKLER SCHEMATIC
SCALE: NONE

KEYED NOTES:

1. MAIN FIRE PROTECTION WATER LINE INTO BUILDING. SEE FS-101 FOR CONTINUATION.
2. NFPA 13 FIRE PROTECTION RISER WITH BACKFLOW PREVENTER (FRPBP). EXTEND TEST PORT AND DRAIN OUTLETS TO EXTERIOR.
3. PROPOSED FIRE MAIN PIPING ABOVE CEILING, SIZED BY SPRINKLER SUBCONTRACTOR. ALL EXPOSED FIRE PROTECTION PIPING SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
4. EXTEND PIPING UNDERGROUND TO REMOTE FIRE DEPARTMENT CONNECTION. SEE FS-101 FOR MORE INFORMATION.
5. INSTALL 6" CATASTROPHIC DRAIN FROM THE RPDA DISCHARGE PORT THRU EXTERIOR WALL TO THE OUTSIDE.
6. EXTEND 4" MAIN FROM NEW RISER OVER TO EXISTING BUILDING FIRE PROTECTION MAIN. FIELD VERIFY EXACT LOCATION.
7. INSTALL FIRE PROTECTION FIRE PUMP INSIDE FIRE RISER ROOM. UNIT TO BE 300 GPM, 75 PSI. PROVIDE WITH JOCKEY PUMP, AND CONTROLLER IN ACCORDANCE WITH NFPA 20.

GENERAL FIRE PROTECTION NOTES:

1. THE FIRE PROTECTION SYSTEM IS DESCRIBED IN THESE DOCUMENTS AS A PERFORMANCE SPECIFICATION ONLY. FIRE PROTECTION INFORMATION INCLUDED ON ALL PLUMBING DOCUMENTS INCLUDING PLANS AND SPECIFICATIONS ARE PROVIDED ONLY FOR GENERAL BIDDING INFORMATION AND SHALL NOT BE CONSIDERED DETAILED CONSTRUCTION DOCUMENTS. ACTUAL DESIGN OF THIS SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION SUB-CONTRACTOR/DESIGNER.
2. THE TERMS "FIRE RISER" AND "F.D.C." ARE GENERIC IN NATURE FOR ALL PLUMBING SHEETS AND INDICATE A POINT OF ENTRY FOR FIRE PROTECTION WATER INTO THE SYSTEM. ACTUAL QUANTITY AND LOCATION OF RISERS AND/OR F.D.C'S AS DEFINED BY NFPA GUIDELINES SHALL BE DETERMINED BY THE FIRE PROTECTION SUB-CONTRACTOR/DESIGNER.
3. THE FIRE PROTECTION COMPONENTS AND SYSTEMS COMPLY WITH APPLICABLE CITY, STATE, AND FEDERAL FIRE PROTECTION CODES AND AUTHORITIES. COORDINATION AND APPROVALS BY THESE CODE AUTHORITIES SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR/DESIGNER.
4. WHERE APPLICABLE, FIRE ALARM AND SPRINKLER MONITORING SYSTEM SHALL BE SPECIFIED BY ELECTRICAL DOCUMENTS. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ALL WORK WITH FIRE ALARM CONTRACTOR.
5. AVOID REDUNDANT MONITORING (I.E. FLOW SWITCH AND HEAT SENSORS) IN ALL SITUATIONS. COORDINATE BETWEEN ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR FIRE ALARM HARDWARE WHETHER OR NOT TO PROVIDE MONITORED FLOW SWITCH.
6. ALL SIZES SHOWN FOR FIRE PROTECTION PIPE AND FITTINGS ARE APPROXIMATE AND ARE SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL SIZES SHALL BE DETERMINED BY FIRE PROTECTION CONTRACTOR/ENGINEER.
7. THE FIRE PROTECTION ZONES AND THEIR OCCUPANCY TYPES FOR THIS BUILDING SHALL BE DEFINED BY NFPA 13. THE FIRE SYSTEM(S) SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND ALL OTHER TRADES TO PROPERLY PROTECT EACH ZONE TYPE.

GENERAL NOTES:

A. THIS IS A SYSTEM CONCEPT DRAWING INTENDED TO DISPLAY INFORMATION ONLY TO SHOW POTENTIAL SYSTEM ARRANGEMENT. SUB-CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION CONTAINED ON THESE DRAWINGS AND IS FULLY RESPONSIBLE FOR LAYOUT AND INSTALLATION OF THE SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, FIRE CODE, NFPA, & STATE FIRE MARSHALLS OFFICE. THESE DRAWINGS PROVIDE A CONCEPT LAYOUT WITH PROPOSED RISER ASSEMBLY LOCATION, FLOW SWITCH LOCATION, VALVE LOCATIONS (WITH TAMPER SWITCHES), AND FIRE DEPARTMENT SIAMESE CONNECTIONS. THIS CONCEPT DRAWING DOES NOT SHOW ALL INFORMATION NECESSARY FOR THE INSTALLATION OF THE SYSTEM, BUT IS INTENDED TO BE USED AS A GUIDE BY THE CONTRACTOR FOR THE PURPOSE OF DESIGNING THE SYSTEM AND PREPARING HIS BID. SUB-CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT REQUIRED FOR SUCH SYSTEM. SUB-CONTRACTOR'S DETAILED AND STAMPED BY A FIRE PROTECTION ENGINEER INSTALLATION DRAWINGS OF THE COMPLETE FIRE PROTECTION SPRINKLER AND STANDPIPE SYSTEM SHALL BE SUBMITTED TO THE NEW MEXICO STATE FIRE MARSHAL'S OFFICE, AND LOCAL AUTHORITY HAVE JURISDICTION, AND THE ENGINEER FOR APPROVAL.

B. THIS DRAWING SHALL SERVE AS A SCHEMATIC DRAWING FOR CONTRACTOR. THE EXACT PLACEMENT OF FIRE SUPPRESSION EQUIPMENT SHALL NOT CONFLICT WITH ANY MECHANICAL, STRUCTURAL, ELECTRICAL, OR ARCHITECTURAL FEATURE. THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM PLACEMENT OF EQUIPMENT OR MATERIAL NOT REVIEWED PRIOR TO INSTALLATION.

C. ALL NEW CONSTRUCTION IS TYPICALLY STEEL, NON-COMBUSTIBLE CONSTRUCTION.

D. ALL AREAS CONTAINING FIRE SPRINKLERS SHALL BE HEATED UNLESS INDICATED OTHERWISE.

E. CONTRACTOR TO VERIFY WITH FIRE MARSHALL ACTUAL LOCATION OF FDC'S.

F. AUTOMATIC SPRINKLERS SHALL BE OF THE FOLLOWING TYPES:
   1. ALL SPRINKLERS SHALL BE QUICK RESPONSE TYPE SPRINKLER HEADS.
   2. CONCEALED SPRINKLERS SHALL BE INSTALLED IN ALL AREAS WITH A FINISHED CEILING OF ANY TYPE. ARCHITECT AND AUTHORITY TO SELECT AND APPROVE SPRINKLERS.
   3. STANDARD UPRIGHT OR PENDENT SPRINKLERS SHALL BE INSTALLED IN UNFINISHED AREAS.
   4. INSTALL DRY TYPE SPRINKLERS OR DRY SYSTEMS IN AREAS WHERE TEMPERATURES ARE NOT MAINTAINED ABOVE 40 DEGREES.
   5. INSTALL INTERMEDIATE TEMPERATURE SPRINKLERS NEAR GLAZING AND WHERE TEMPERATURES CAN EXCEED 100 DEGREES.
   6. SPRINKLERS INSTALLED EXPOSED AND LESS THAN 9-FEET ABOVE THE FINISHED FLOOR SHALL BE PROVIDED WITH LISTED WIRE GUARDS.

G. THE ARCHITECT WILL SELECT FINISHES FOR ALL AUTOMATIC SPRINKLERS AND ESCUTCHEONS FROM SAMPLES OF AVAILABLE FINISHES SUPPLIED BY CONTRACTOR.

H. ALL SPRINKLERS WITHIN A SPACE SHALL BE FROM THE SAME MANUFACTURER AND HAVE THE SAME HEAT RESPONSE ELEMENT, INCLUDING TEMPERATURE RATING AND RESPONSE CHARACTERISTICS.

I. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL SPRINKLERS OF THE PROPER TEMPERATURE RATING AS REQUIRED BY NFPA 13.

J. SPRINKLERS LOCATED ON EXTERIOR PIPING SYSTEMS, OR LOCATED IN CORROSIVE ATMOSPHERES SHALL BE CORROSION RESISTANT GALVANIZED STEEL PIPING.

K. ESCUTCHEONS SHALL BE METAL AND BE LISTED WITH THE SPRINKLERS FOR RECESSED SPRINKLER LOCATIONS.

ALL SPRINKLERS SHALL BE STANDARD ORIFICE SPRINKLERS (1/2" ORIFICE) UNLESS SPECIFICALLY APPROVED OTHERWISE.

CLASSIFICATION OF OCCUPANCY SPECIAL CONDITIONS NOTES:

SPRINKLED AREA: THE ENTIRE BUILDING SHALL BE SPRINKLED UNLESS INDICATED OTHERWISE.

1. JANITOR, MECHANICAL ROOM, ELECTRICAL ROOM, STAIRS, STORAGE, AND COMMUNICATION ROOMS SHALL BE PROTECTED TO AN OCCUPANCY CLASSIFICATION OF ORDINARY HAZARD GROUP 1.
2. CONFERENCE ROOM, LOBBIES, RESTROOMS, GENERAL PURPOSE ROOMS, OFFICES, AND CORRIDORS SHALL BE PROTECTED TO AN OCCUPANCY CLASSIFICATION OF LIGHT HAZARD.

MINIMUM PIPE MATERIAL SCHEDULE

SERVICE TYPE	MATERIAL REQUIRED	
FIRE PROTECTION WATER	BELOW GRADE OUTSIDE BUILDING FOOTPRINT	AWWA C900, DUCTILE IRON
	BELOW GRADE UNDER BUILDING	DUCTILE IRON
	ABOVE GRADE/SLAB WITHIN BUILDING *WET SYSTEM	STEEL PIPE SCHEDULE 40 BLACK STEEL, STEEL PIPE SCHEDULE 10 BLACK STEEL FOR MAINS 2 1/2" AND LARGER

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NEW WORK PLAN
Project No.: NMSU2023-01

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POWER ADVISORY

NEW CIRCUITS:
QTY: **8** (120VAC 20-AMP SINGLE PHASE)

QTY: **1** (208VAC 30-AMP TWO PHASE)

AVERAGE CURRENT DRAW AND HEAT LOADS ASSOCIATED WITH SOUND/AV SYSTEMS IN OPERATION WITH TYPICAL PROGRAM MATERIAL WITH OCCASIONAL CLIPPING:

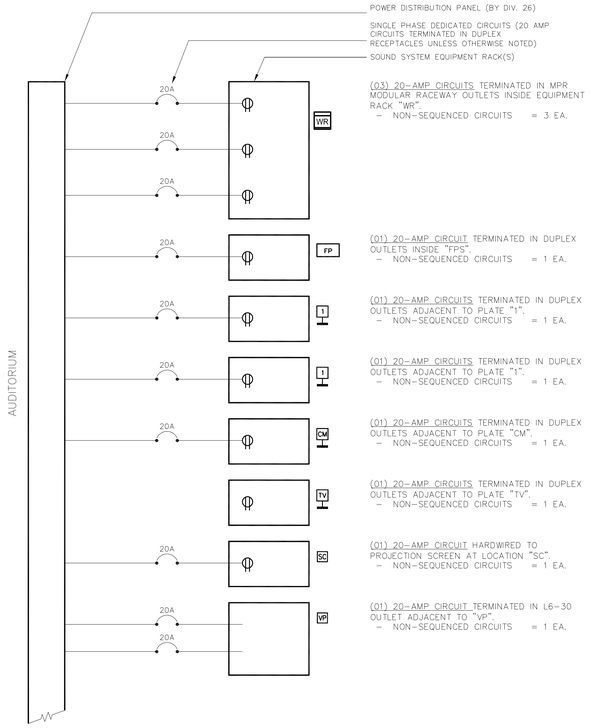
CURRENT DRAW:

HEAT LOADS:

CURRENT DRAW BASED ON 120VAC CIRCUITS AT SECONDARY SIDE OF ISOLATION TRANSFORMER. TRANSFORMER SHALL BE SIZED BY PROJECT ELECTRICAL CONSULTANT

NOTES:

1. POWER RACEWAY AND MODULAR OUTLETS INSIDE RACKS FURNISHED BY AUDIO/VISUAL SYSTEM SUBCONTRACTOR AND TERMINATED BY ELECTRICAL CONTRACTOR.
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATIONS AND TERMINATION OF AC POWER.
3. REFER TO SOUND SYSTEM SPECIFICATIONS UNDER "RELATED WORK BY OTHERS" FOR ADDITIONAL INFORMATION.
4. ALL CIRCUITS ARE 20 AMP ISOLATED GROUND UNLESS OTHERWISE NOTED.
5. CURRENT DRAW BASED ON 120VAC CIRCUITS AT SECONDARY SIDE OF ISOLATION TRANSFORMER. TRANSFORMER TO BE SIZED BY PROJECT ELECTRICAL ENGINEER.
6. CURRENT DRAW AND HEAT LOAD FOR EACH SYSTEM SHOWN REPRESENT AVERAGE LOADS FOR SOUND SYSTEMS IN OPERATION WITH PROGRAM MATERIAL AT TYPICAL MAXIMUM LEVEL OPERATION.

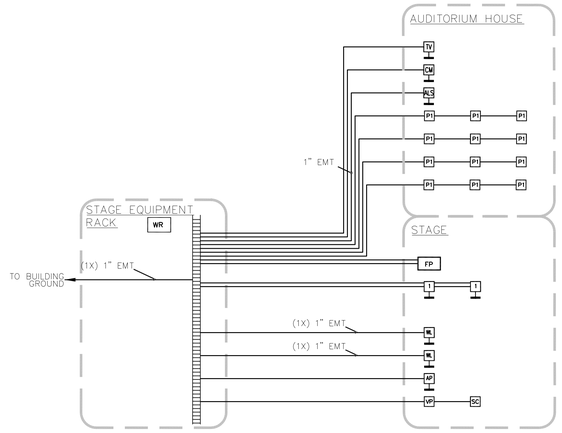


AUDIO VISUAL LEGEND

1	ENCLOSURE: EXISTING 6"X 6"X 4" NEMA TYPE-1 ENCLOSURE MOUNTING: RECESSED IN WALL AT 1'-6" A.F.F. PANEL: SEE PLATE DETAILS DEVICE(S): 2 PROGRAM MICS, HDMI, AV-NET
AS	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESSED IN WALL AT 15'-0" A.F.F. PANEL: MANUFACTURE'S ADAPTOR BRACKET DEVICE(S): AUDITORIUM ASSISTIVE LISTENING SYSTEM RF TRANSMITTER ANTENNA
AP	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX MOUNTING: RECESSED IN WALL AT 10'-0" A.F.F. PANEL: MANUFACTURE'S ADAPTOR BRACKET DEVICE(S): WIRELESS ACCESS POINT FOR SOUND CONTROL
CM	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESSED IN WALL AT 10'-0" A.F.F. PANEL: MANUFACTURE'S ADAPTOR BRACKET DEVICE(S): WALL MOUNTED CAMERA CONNECTION PLATE
FP	ENCLOSURE: EXISTING FLOOR BOX. MOUNTING: RECESSED IN STAGE FLOOR. COUNTER SINK THE LID TO BE FLUSH WITH THE FLOOR. PANEL: SEE PLATE DETAILS DEVICE(S): 1 DEFAULT MIC, 5 PROGRAM MICS, 2 SPEAKER MONITORS, AV-NET, AC POWER
P1	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: MOUNTED ON THE BUILDING STRUCTURE ABOVE THE SPEAKER PANEL: BLANK PLATE WITH PASS THROUGH HOLE & PROTECTIVE GROMMET DEVICE(S): SPEAKER CABLE PULL BOX
SC	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX MOUNTING: MOUNTED ON THE BUILDING STRUCTURE ABOVE THE SCREEN PANEL: BLANK PLATE WITH PASS THROUGH HOLE & PROTECTIVE GROMMET DEVICE(S): MOTORIZED PROJECTION SCREEN CONTROL
TV	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESSED IN WALL AT 8'-0" A.F.F. PANEL: MANUFACTURE'S ADAPTOR BRACKET DEVICE(S): WALL MOUNTED TV CONNECTION PLATE
VP	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: MOUNTED ON THE BUILDING STRUCTURE ABOVE THE PROJECTOR PANEL: BLANK PLATE WITH PASS THROUGH HOLE & PROTECTIVE GROMMET DEVICE(S): VIDEO PROJECTOR CONNECTION PLATE
WL	ENCLOSURE: 3-GANG, 3-1/2" DEEP BOX MOUNTING: RECESSED IN WALL AT 15'-0" A.F.F. PANEL: SEE PLATE DETAILS DEVICE(S): AUDITORIUM MAIN SYSTEM WIRELESS MICROPHONE ANTENNA
WR	ENCLOSURE: WALL RACK; REFER TO SPECIFICATIONS MOUNTING: CENTER AT 4'-0", SEE DETAILS. PANEL: STANDARD 19" RACK-MOUNTED EQUIPMENT. PROVIDE BLANK PANELS WHERE NO EQUIPMENT RESIDES DEVICE(S): SOUND EQUIPMENT RACK (SEE POWER RISER FOR ASSOCIATED POWER REQUIREMENTS)
	ENCLOSURE: 8" X 8" X 36" WIRING TROUGH MOUNTING: SUSPEND FROM STRUCTURE ABOVE RACK LOCATIONS AS INDICATED IN THE DRAWINGS DEVICE: WIRING TROUGH FOR RACK CONNECTIVITY
	120 VOLT AC CONVENIENCE OUTLET.

ELECTRICAL & CONDUIT INSTALLATION NOTES (DIV. 26)

1. ALL 120VAC POWER CONDUCTORS, POWER DISTRIBUTION PANELS, JUNCTION BOXES, TERMINAL PANELS, CONDUITS, WIREWAYS, POWER RECEPTACLES AND ALL OTHER DEVICES ASSOCIATED WITH 120VAC POWER CIRCUITS SHALL BE FURNISHED, INSTALLED AND TERMINATED UNDER DIVISION 26 UNLESS OTHERWISE NOTED.
2. ALL CONDUIT SHOWN IS FOR AUDIO/VISUAL SYSTEM SIGNAL CABLE AND IS NOT RELATED TO ANY CONDUIT FOR AC POWER.
3. ALL CONDUIT IS 3/4" EMT UNLESS OTHERWISE NOTED.
4. ALL CONDUIT CONNECTIONS SHALL BE FURNISHED WITH NYLON BUSHINGS TO PREVENT DAMAGE TO CABLES FROM BURRED OR UNEVENLY CUT CONDUIT.
5. USE INSULATED BUSHINGS TO CONNECT CONDUIT TO EQUIPMENT RACKS, TO INSULATE CONDUIT GROUND FROM EQUIPMENT RACK GROUND SYSTEM.
6. KEEP 90° BENDS TO A MINIMUM. THE CONDUIT SYSTEM SHALL NOT HAVE MORE THAN THREE 90° BENDS OR THEIR EQUIVALENT BETWEEN PULL BOXES.
7. ALL PULL BOXES AND OUTLET BOXES SHALL BE AT LEAST 3-1/2" DEEP.
8. ALL CONDUIT RUNS IN EXCESS OF 100 FEET SHALL HAVE INTERMEDIATE JUNCTION BOXES EVERY 100 FEET OR THREE BENDS, WHICHEVER COMES FIRST.
9. ALL AUDIO/VISUAL SYSTEM RELATED JUNCTION BOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES.
10. INSTALL NYLON PULL STRINGS IN ALL EMPTY CONDUITS.
11. CAULK OR OTHERWISE SEAL ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND BARRIERS.
12. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR ALL 120VAC CONDUIT SIZING.
13. ELECTRICAL CONTRACTOR SHALL REFER TO OTHER DRAWINGS FOR NON-AUDIO/VISUAL SYSTEM RELATED ELECTRICAL INFORMATION FOR THESE AREAS. AUDIO/VISUAL SYSTEM DRAWINGS DO NOT CONTAIN ALL ROOM ELECTRICAL REQUIREMENTS.
14. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE ALL HIGH VOLTAGE DEVICES.
15. ALL POWER CIRCUITS SHALL BE 120VAC, 20 AMP DEDICATED CIRCUITS UNLESS OTHERWISE NOTED.
16. ELECTRICAL CONTRACTOR SHALL LABEL ALL CIRCUIT BREAKER POSITIONS IN ALL BREAKER PANELS.
17. INSTALL SEPARATE DEDICATED NEUTRAL CONDUCTOR FROM POWER DISTRIBUTION PANEL FOR EACH INDIVIDUAL CIRCUIT.
18. ALLOW MINIMUM 20% SPARE BREAKERS FOR EACH POWER DISTRIBUTION PANEL.
19. 120VAC POWER TO THE EQUIPMENT RACKS SHALL BE TERMINATED INSIDE THE RACKS TO AUDIO/VISUAL SYSTEM SUBCONTRACTOR-SUPPLIED ISOLATED GROUND PLUGMOLD PLUGSTRIPS OR ISOLATED GROUND QUAD CONVENIENCE OUTLETS.
20. CLEARLY LABEL BREAKER PANEL DOOR "AUDIO/VISUAL SYSTEM EQUIPMENT ONLY".
21. RECESSED LOUDSPEAKER ENCLOSURES AND FLOOR POCKETS SHALL BE FURNISHED BY THE AUDIO/VISUAL SYSTEMS CONTRACTOR AND BE INSTALLED UNDER DIVISION 16.200.
22. REFER TO "RELATED WORK IN OTHER SECTIONS" IN AUDIO/VISUAL SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION.
23. CONDUIT WILL BE REQUIRED BETWEEN ANY AND ALL LOUDSPEAKERS UNLESS THE LOUDSPEAKERS ARE ASSOCIATED WITH AN ACCESSIBLE CEILING PLENUM. WIRE NOT INSTALLED IN EQUIPMENT RACKS, NOT PORTABLE, OR NOT INSTALLED IN CONDUIT SHALL BE FIRE-RATED AND MEET ALL APPLICABLE CODES.
24. ALL CONDUIT THAT RUNS THROUGH SPACES WITH EXPOSED CEILING AREAS WILL RUN ALONG STRUCTURAL SUPPORTS AND BEAMS; NOT ACROSS EXPOSED AREAS BETWEEN STRUCTURAL SUPPORTS AND BEAMS.



CONDUIT NOTES

1. ALL CONDUIT IS 3/4" EMT UNLESS OTHERWISE NOTED.

AUDIOVISUAL DATA DROP REQUIREMENTS (BY DATA/TELECOM)

DEVICE / LOCATION	QTY AT EACH LOC.	ADDITIONAL NOTES
TV	1	(1) DATA OUTLET TERMINATED TO EACH "TV" PLATE IN THE AUDITORIUM.
VP	1	(1) DATA OUTLET ADJACENT TO EACH "VP" PLATE IN THE AUDITORIUM.
WR	1	(1) DATA OUTLET INSIDE "WR" EQUIPMENT RACK WITH 15' SERVICE LOOP UNTERMINATED

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75 % CONSTRUCTION DOCUMENTS

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

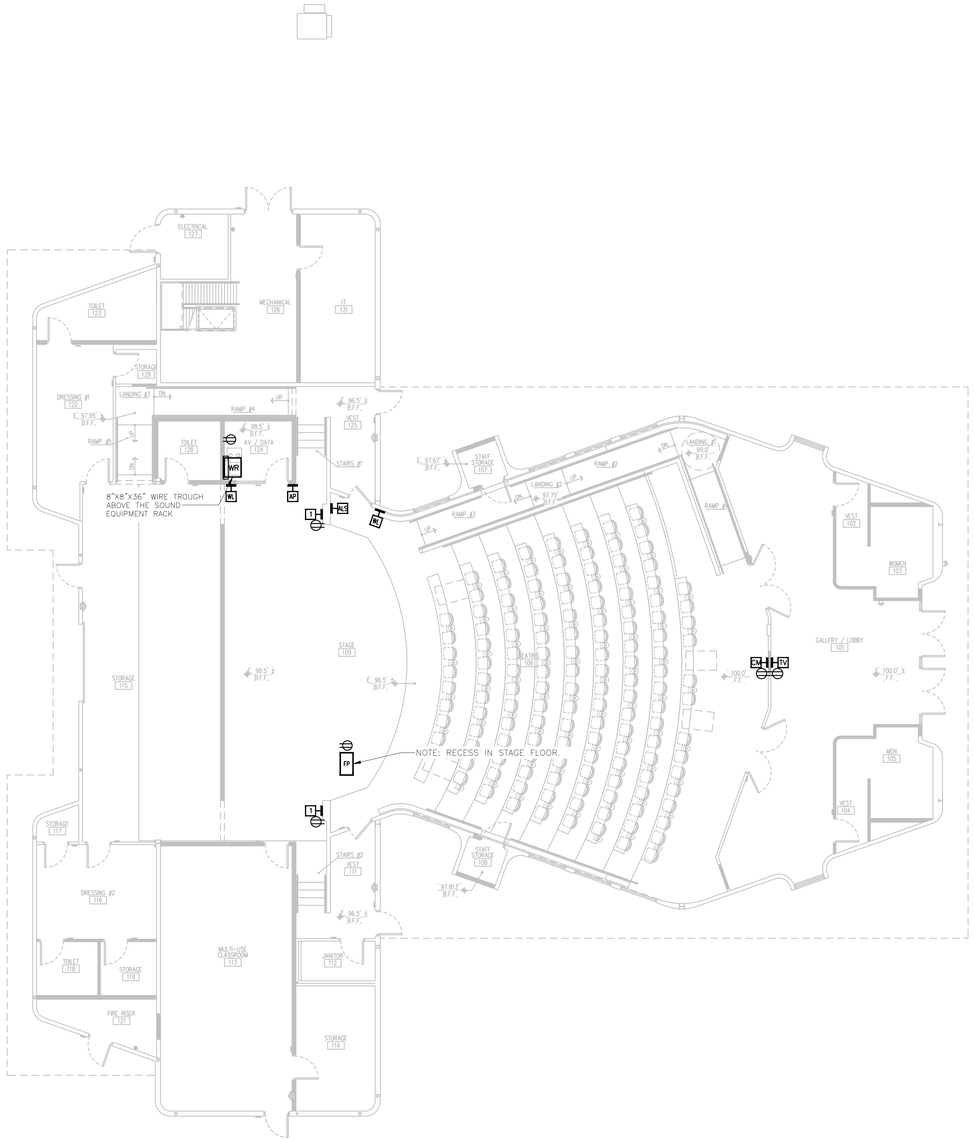
Date:02/11/2025 Scale: VARIES
Drawn by:RMS Checked by:KEB
Revisions:

Title: AV LEGEND AND ADVISORIES

Project No:NMSU2023-01

AV-000

X-R&I AV - POWER AND LEGEND.dwg



1 FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

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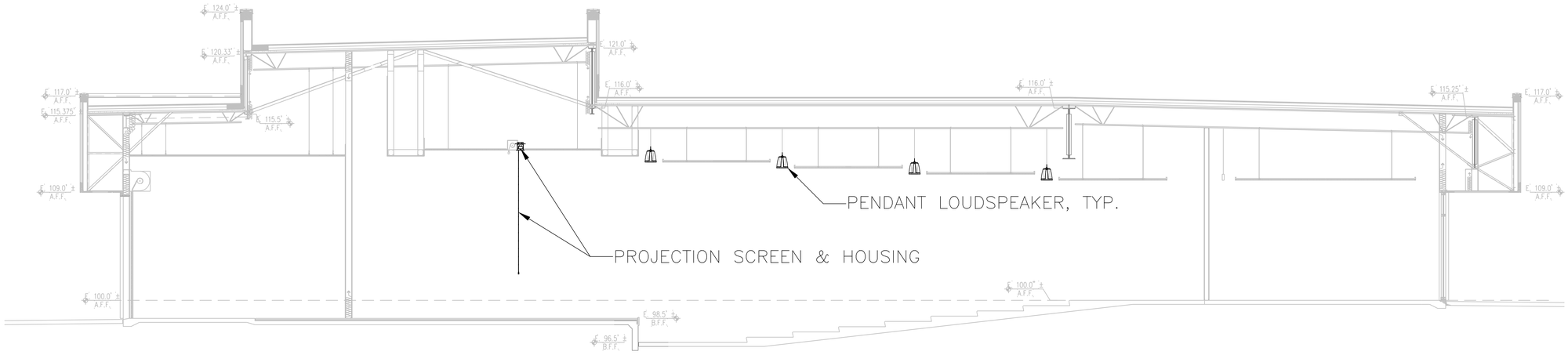
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Date:02/11/2025 Scale: VARIES
Drawn by:RDS Checked by:KEH
Revisions:

Title: AV FLOOR PLAN
Project No:NMSU2023-01

AV-101

X-BAI AV - FLOOR PLANS.dwg



1 BUILDING SECTION - AUDITORIUM SECTION
1/4" = 1'-0"

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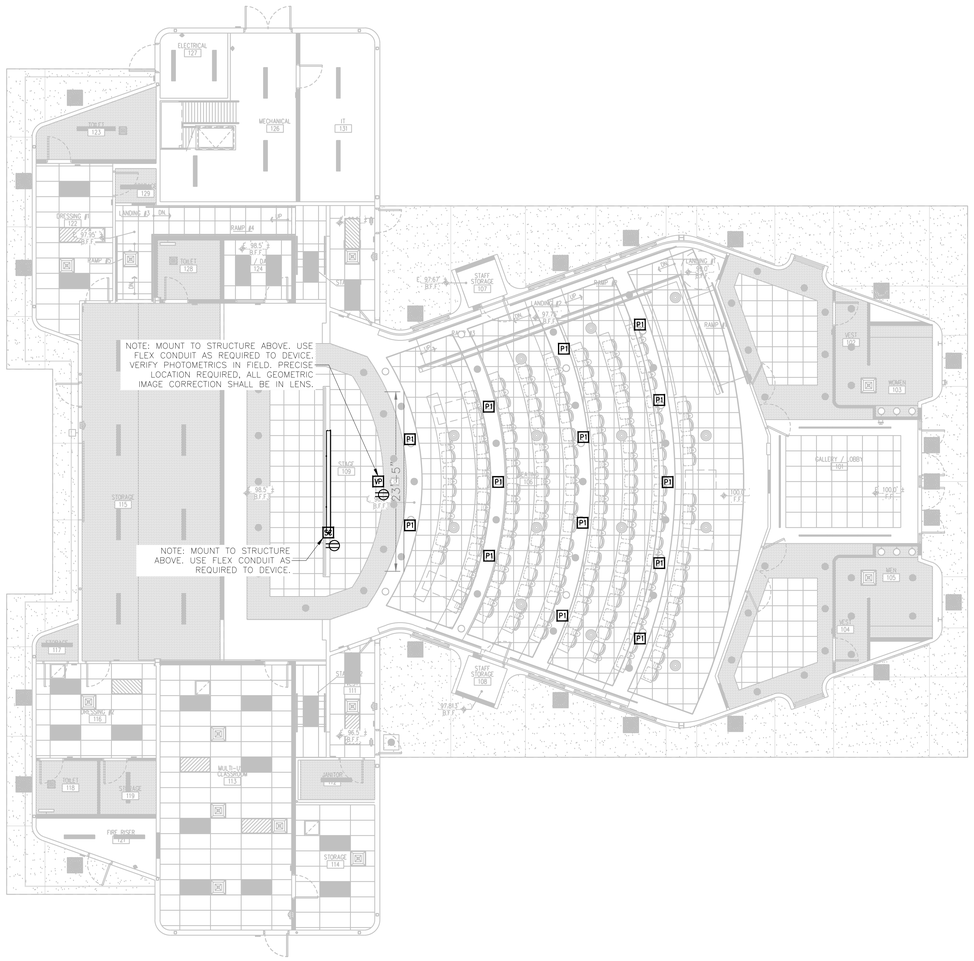
Date02/11/2025 Scale: VARIES
Drawn by:RDS Checked by:RSH
Revisions:

Title: AV BUILDING SECTIONS

Project No.NMSU2023-01

AV-201

X-REF: AV - FLOOR PLANS.dwg



1 REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"

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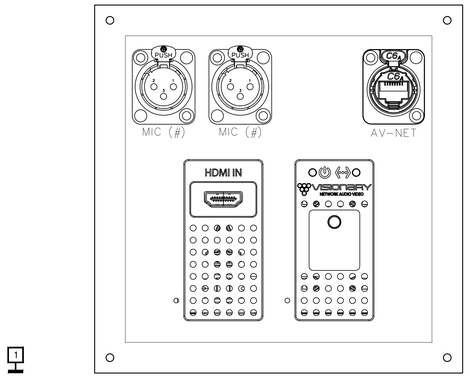
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Date: 02/11/2025 Scale: VARIES
Drawn by: RKS Checked by: KEB
Revisions:

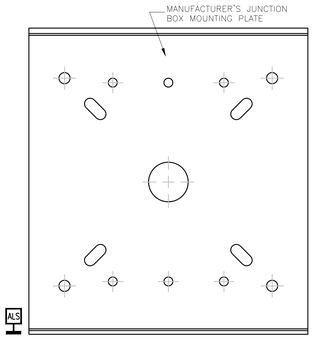
Title: AV REFLECTED CEILING PLAN
Project No: NMSU2023-01

AV-301

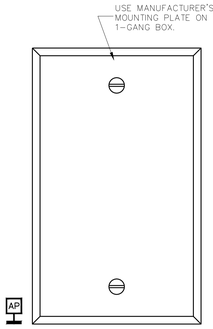
X-BAI AV - FLOOR PLANS.dwg



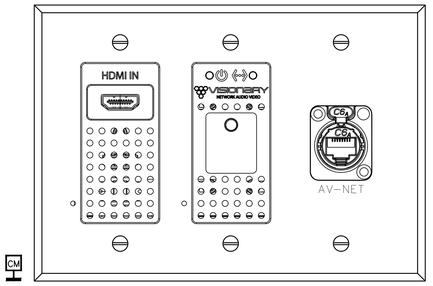
1 PLATE DETAILS - "1"
1" = 1"



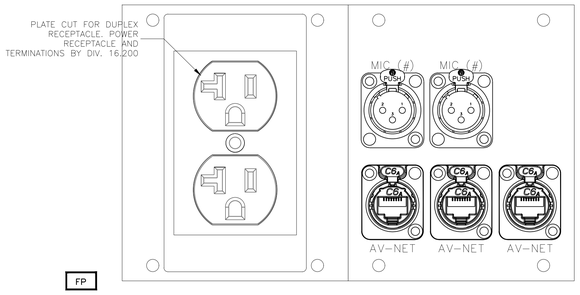
2 PLATE DETAILS - "ALS"
1" = 1"



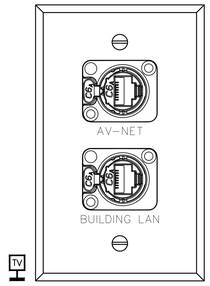
3 PLATE DETAILS - "AP"
1" = 1"



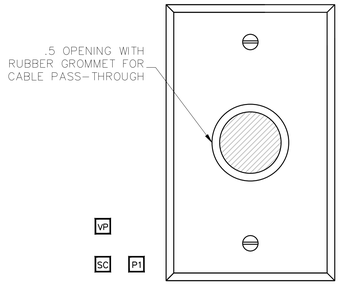
4 PLATE DETAILS - "CM"
1" = 1"



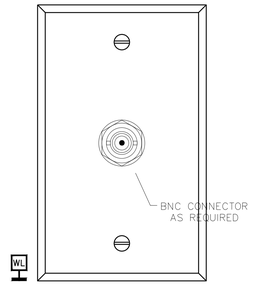
5 PLATE DETAILS - "FP"
1" = 1"



6 PLATE DETAILS - "TV"
1" = 1"



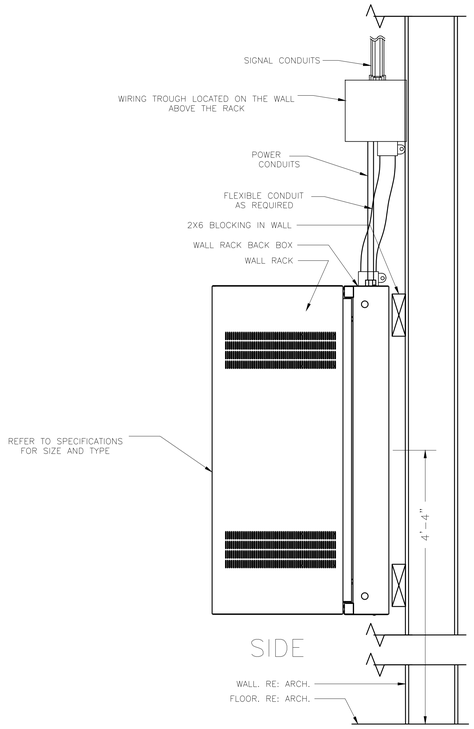
7 PLATE DETAILS - "P1" "SC" "VP"
1" = 1"



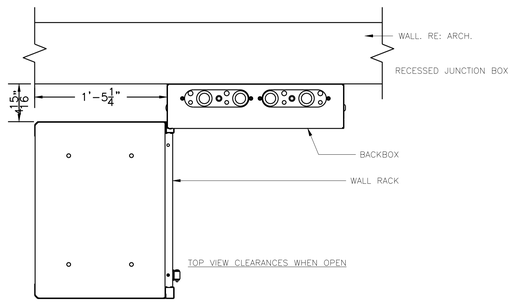
8 PLATE DETAILS - "WL"
1" = 1"

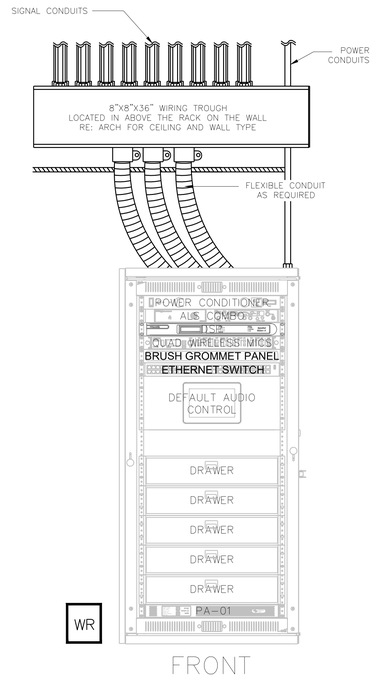
NOTES FOR PLATES/PANELS:

DETAILS OF CUSTOM PLATES AND PANELS ARE SHOWN FOR THE SAKE OF CLARITY AND CONTENT. THE INSTALLING CONTRACTOR SHALL VERIFY ALL BACK BOX DIMENSIONS AND MOUNTING HOLES IN THE FIELD PRIOR TO PANEL/PLATE FABRICATION AND INSTALLATION.



9 DETAILS - "WR" RACK MOUNTING DETAIL
1-1/2" = 1'-0"





10 RACK ELEVATION - "WR" EQUIPMENT RACK
1-1/2" = 1'-0"

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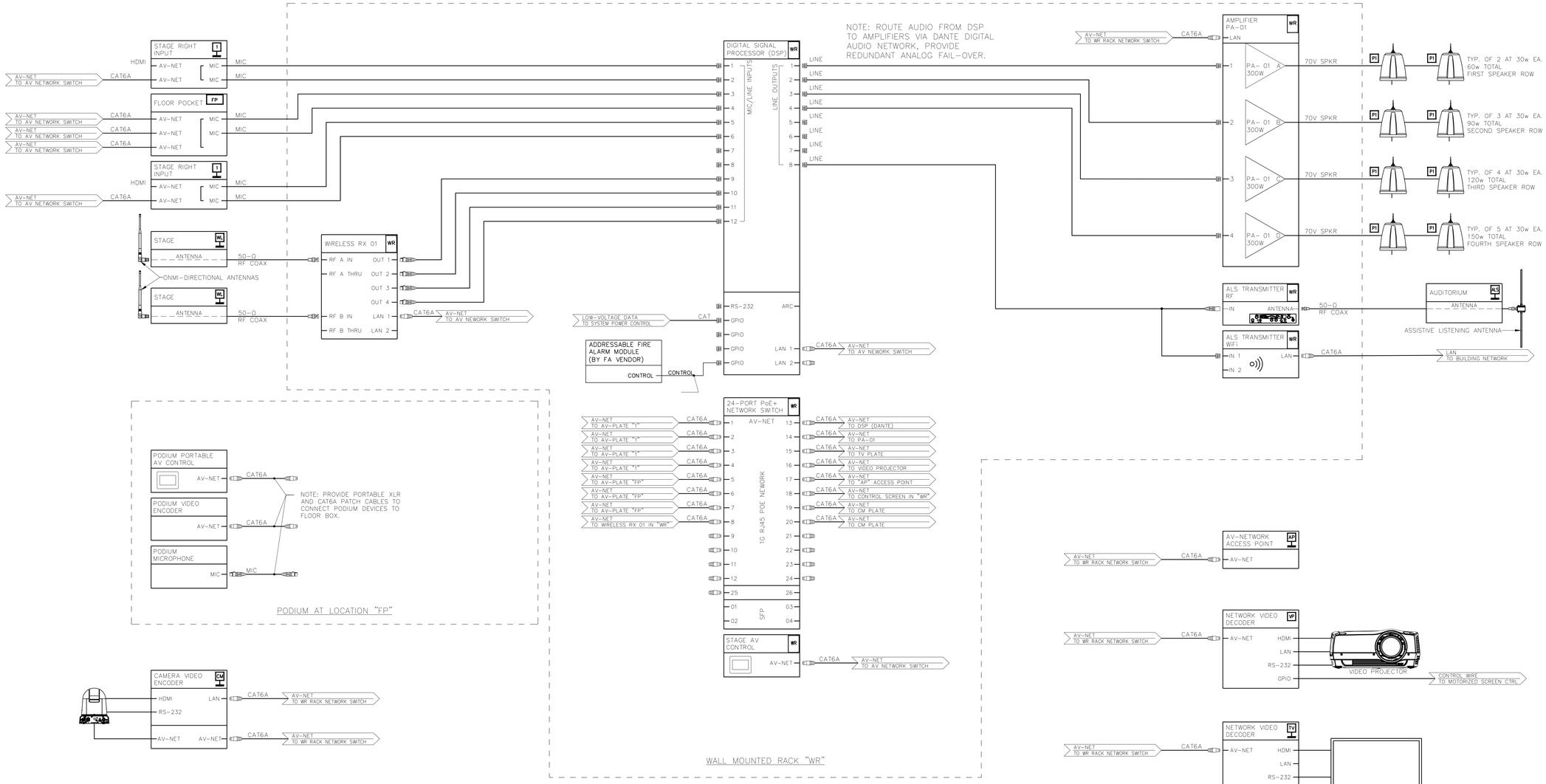
Date02/11/2025 Scale: VARIES
Drawn by:KDS Checked by:KEB
Revisions:

Title: AV RACK AND PLATE DETAILS

Project No.NMSU2023-01

AV-601

_X-BAI AV - PLATE DETAILS AND ONELINES.dwg



1 ONELINE DETAIL
NO SCALE

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Date02/11/2025 Scale: VARIES
Drawn by:CMS Checked by:KEB
Revisions:

Title: AV ONELINE

Project No.NMSU2023-01

AV-602

_X-BAI AV - PLATE DETAILS AND ONELINES.dwg

ELECTRICAL SYMBOL LEGEND

LIGHT FIXTURE

- JUNCTION BOX INSTALLED ABOVE AN ACCESSIBLE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY–IN FIXTURES. MAXIMUM 6'–0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS ALONG WITH GREEN WIRE GROUND.
- LED FIXTURE 1x4, 2x2 OR 2x4 AS SCALED ON PLANS. SURFACE OR RECESSED. TYPE AS INDICATED IN FIXTURE SCHEDULE.
- LED FIXTURE AS SPECIFIED WITH BATTERY BACK–UP. TYPE AS INDICATED IN FIXTURE SCHEDULE.
- LED VANITY FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
- RECESSED MOUNT LED FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
- WALL MOUNTED LED FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
- UNIVERSAL MOUNTED LED EXIT SIGN. BOTTOM OF SIGN 6" ABOVE DOOR FRAME, OR BOTTOM OF LIGHT 84" ABOVE FLOOR WHEN MOUNTED ON BARE WALL OR AS NOTED.

CONDUIT, RACEWAYS, AND WIRING

- CONDUIT EXPOSED. RIGID, IMC, EMT OR PVC SCH 80. SEE SPECS.
- CONDUIT CONCEALED IN WALLS OR CEILING CONSTRUCTION RIGID, IMC OR EMT. SEE SPECS.
- HOME RUN TO PANELBOARD–NUMBER OF ARROWS INDICATES NUMBER OF BREAKER HANDLES.
- WHITE NEUTRAL, PHASE (HOT), SWITCH LEG, GREEN GRD. WIRE — DASHES ACROSS CONDUIT OR CABLE INDICATE THREE (3) OR MORE WIRES #12 AWG SOLID COPPER UNLESS NOTED OTHERWISE.
- UG — UNDERGROUND ELECTRICAL. 3'–0" MIN. BELOW GRADE. RIGID, IMC, PVC SCH 40 OR PVC SCH 80. SEE SPECS.
- FA — 3/4" MIN. U.N.O. CONDUIT FOR SPECIAL SYSTEM WIRING TO CENTRAL EQUIPMENT, PANEL, TERMINAL CABINET OR NEXT DEVICE. ARROW HEADS ARE FOR HOME RUNS.
- C = CONTROL OR INTERLOCK
- UP — CONDUIT TURNED UP
- DN — CONDUIT TURNED DOWN
- GROUND

MISCELLANEOUS

- MECHANICAL EQUIPMENT DESIGNATION– SEE MECHANICAL EQUIPMENT SCHEDULE.
- KEYED NOTE
- WP — WEATHERPROOF
- AFF — ABOVE FINISH FLOOR
- EM — EMERGENCY
- E OR EX — EXISTING
- UNO — UNLESS NOTED OTHERWISE
- GFCI — GROUND FAULT CIRCUIT INTERRUPTER
- W — WHITE NYLON SURFACE MOUNT WIREMOLD STUBBED 6" ABOVE CEILING SPACE. UTILIZE SURFACE MOUNT BOXES FOR WIRING DEVICE TO BE INSTALLED IN.
- FA — FIRE ALARM
- FCPS — FIELD CHARGING POWER SUPPLY

EQUIPMENT

- M OR Ø — MOTOR OUTLET AND CONNECTION. EQUIPMENT TYPE AS NOTED.
- SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATING REQUIRED. NEMA 3R IF INSTALLED OUTDOORS.
- MOTOR CONTROLLER INTEGRAL WITH EQUIPMENT.
- PANELBOARD SURFACE MOUNTED.
- SPECIAL CABINET OR EQUIPMENT AS NOTED, SURFACE MOUNTED.
- SPECIAL CABINET OR EQUIPMENT AS NOTED, FLUSH MOUNTED.
- "TTB" TELEPHONE TERMINAL BOARD 3/4"x4'x8' (U.N.O) INTERIOR GRADE PLYWOOD. MOUNT ON WALL SHOWN. PROVIDE #6 COPPER INSULATED GROUND WIRE TO WATER LINE OR MAIN BUILDING GROUND. THE BOARD SHALL BE PAINTED WITH FIRE RETARDANT PAINT. APPLY 2 COATS AND PAINT ALL 6 SIDES OF THE BOARD.
- THERMOSTAT OR TEMPERATURE SENSOR OUTLET FLUSH IN WALL. 1 GANG HANDY BOX WITH 1/2" STUBBED TO ABOVE ACCESSIBLE CEILING. UP 44" OR AS NOTED. CONTROL WIRING BY CONTROLS CONTRACTOR.
- T — GROUND MOUNTED UTILITY OR DRY–TYPE ELECTRICAL TRANSFORMER. REFER TO THE ELECTRICAL PLANS FOR VOLTAGE, PHASE, AND KVA.

COMMUNICATION SYSTEMS

HEIGHTS NOTED ARE TO CENTER LINE FROM FLOOR.

- WP — EXTERIOR MOUNTED SURVEILLANCE CAMERA COMPLETE WITH (1)–CAT6A CABLE. CAMERA SHALL BE PROVIDED AND INSTALLED BY NMSU'S IT DEPT. CAMERA SHALL BE MOUNTED AND LOCATED AS NOTED ON THE PLANS. E.C. SHALL PROVIDE CAT6 CABLE AND INFRASTRUCTURE WHICH INCLUDES A 4" SQ. BOX 2 1/8" DEEP, ONE GANG PLASTER RING, 1"C OR AS NOTED ON THE PLANS, STUBBED TO ABOVE ACCESSIBLE CEILING. AT THE TIME OF FINAL INSPECTION E.C. SHALL PROVIDE A BLANK COVER PLATE ON ALL BOXES THAT HAVE NOT BEEN USED TO INSTALL DEVICE. PROVIDE A BUSHING ON THE CONDUIT STUB.
- INTERIOR MOUNTED SURVEILLANCE CAMERA COMPLETE WITH (1)–CAT6A CABLE. CAMERA SHALL BE PROVIDED AND INSTALLED NMSU'S IT DEPT. CAMERA SHALL BE MOUNTED AND LOCATED AS NOTED ON THE PLANS. E.C. SHALL PROVIDE CAT6 CABLE AND INFRASTRUCTURE WHICH INCLUDES A 4" SQ. BOX 2 1/8" DEEP, ONE GANG PLASTER RING, 1"C OR AS NOTED ON THE PLANS, STUBBED TO ABOVE ACCESSIBLE CEILING. AT THE TIME OF FINAL INSPECTION E.C. SHALL PROVIDE A BLANK COVER PLATE ON ALL BOXES THAT HAVE NOT BEEN USED TO INSTALL DEVICE. PROVIDE A BUSHING ON THE CONDUIT STUB.

WIRING DEVICES

HEIGHTS NOTED ARE TO CENTER LINE FROM FLOOR.

AS THE CONTRACTED AND LICENSED INSTALLER ON THE PROJECT NOTED ON THE TITLE BLOCK THIS CONTRACTOR WARRANTS AND GUARANTEES THAT ALL CONTROL AND OPERATING MECHANISMS HE/SHE INSTALLS WILL COMPLY WITH THE ACCESSIBILITY STANDARD AS ADOPTED AND MODIFIED BY THE STATE, WHETHER THE STANDARD IS ADAAG, LATEST EDITION OR ICC/ANSI A 117.1, LATEST EDITION. REACH RANGES SHALL BE COMPLIED WITH. THESE INCLUDE FORWARD REACH AND SIDE REACH, BOTH UNOBSTRUCTED AND OBSTRUCTED. THIS GUARANTEE SHALL EXTEND FOR THE TIME PERIOD AS NECESSARY FOR THE STATE ACCESSIBILITY INSPECTOR TO MAKE THE FINAL ON SITE ACCESSIBILITY INSPECTION. IN ANY CASE THE TIME PERIOD SHALL NOT EXCEED 36 MONTHS BEYOND THE DATE OF SUBSTANTIAL COMPLETION. ANY DEFICIENCIES FOUND BY THE ACCESSIBILITY STATE INSPECTOR ON THE ACCESSIBILITY FINAL INSPECTION SHALL BE CORRECTED WITHIN 30 DAYS BY THIS CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER. THE HEIGHTS CALLED FOR BY THE LEGEND AND AS SHOWN ON THE PLANS ARE SO SELECTED TO BE IN COMPLIANCE, HOWEVER CONSTRUCTION ADJUSTMENTS OCCUR IN THE FIELD OFTEN WITH OUT THE KNOWLEDGE OF THE ENGINEER, WHEN THIS HAPPENS THE CONTRACTOR IS AUTHORIZED AND EXPECTED TO ADJUST THE DEVICE HEIGHT IN THE FIELD AS NECESSARY.

- $ — SINGLE POLE WALL SWITCH, 2 INDICATES 2 POLE, 3 INDICATES 3 WAY, 4 INDICATES 4 WAY, P INDICATES WITH PILOT LIGHT, D INDICATES LED DIMMER, EF INDICATES EXHAUST FAN. MOUNT AT +44" OR AS NOTED.
- $EC — EVAPORATIVE COOLER SWITCHES. ONE "HIGH–OFF–LOW" FOR FAN AND ONE "ONE–OFF" FOR PUMP. FLUSH MOUNTED UP 44" UNLESS NOTED OTHERWISE INDICATED. PROVIDE ENGRAVED COVER PLATE.
- $EXP — EXPLOSION PROOF SWITCH. FLUSH MOUNTED UP 44" UNLESS NOTED OTHERWISE INDICATED.
- DUPLEX RECEPTACLE–20A, 125V, 2P, 3W (NEMA 5–20R) IN WALL +18" OR AS NOTED.
- 2 — DOUBLE DUPLEX (QUAD) RECEPTACLE –20A, 125V, 2P, 3W (NEMA 5–20R) 18" OR AS NOTED.
- CT — DUPLEX RECEPTACLE–20A, 125V, 2P, 3W (NEMA 5–20R) UP WALL 4" ABOVE COUNTER OR BACK SPLASH SINGLE DUPLEX OUTLETS SHALL BE MOUNTED HORIZONTALLY. DOUBLE DUPLEX (QUAD) OUTLETS SHALL BE MOUNTED VERTICALLY. IN ANY CASE TO COMPLY WITH ADA ACCESSIBILITY THE OUTLET BOX CENTERLINE MAY NOT EXCEED 42".
- DUPLEX RECEPTACLE–20A, 125V, 2P, 3W (NEMA 5–20R)–IN WALL +18" OR AS NOTED–ONE RECEPTACLE HOT, ONE RECEPTACLE SWITCHED.
- GFCI — GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE–20A, 125V, 2P, 3W–IN WALL +18" OR AS NOTED.
- 20 — SIMPLEX POWER RECEPTACLE–250V, 1Ø, 2P, 3W,–20A, 30A, OR 50A NUMBER AT OUTLET INDICATES AMPERE RATING (NEMA 6–20R, 6–30R, 6–50R) IN WALL +18" OR AS NOTED.
- SIMPLEX POWER RECEPTACLE. VOLTAGE, AMPERAGE AND NEMA CONFIGURATION AS NOTED ON PLANS. HEIGHT AS NOTED ON PLANS.
- JUNCTION OR OUTLET BOX IN WALL. HEIGHT AS NOTED. ALL BOXES SHALL BE ACCESSIBLE.
- JUNCTION OR OUTLET BOX IN CEILING. ALL BOXES SHALL BE ACCESSIBLE.

IN CMU WALL CONSTRUCTION ROUGH–IN BOXES FOR WIRING DEVICES MAY BE ADJUSTED ABOVE 18" OR BELOW 44" AS APPROVED IN THE FIELD TO HELP MINIMIZE CUTS IN CMU BLOCKS, AS LONG AS THE HEIGHTS ARE IN KEEPING WITH ADA HEIGHTS.

OCCUPANCY SENSOR DEVICES

- DLM — DIGITAL LIGHTING MANAGEMENT.
- WCT — WIRELESS CONFIGURATION TOOL. WATT STOPPER (LMCT–100 OR EQUAL). PROVIDE TWO FOR THIS PROJECT.
- CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. WATT STOPPER (LMDC 100W OR EQUAL).
- $B1 — 1–BUTTON LOW VOLTAGE, ON/OFF WALL SWITCH. WATT STOPPER (LMSW–210 OR EQUAL).
- $B2 — 2–BUTTON LOW VOLTAGE, ON/OFF WALL SWITCH. WATT STOPPER (LMSW–220 OR EQUAL).
- $D1 — 1–BUTTON WITH RAISE/LOWER, LOW VOLTAGE, 0–10V DIMMING, ON/OFF, WALL SWITCH. WATT STOPPER (LMSW–211 OR EQUAL).
- $D2 — 2–BUTTON WITH RAISE/LOWER, LOW VOLTAGE, 0–10V DIMMING, ON/OFF, WALL SWITCH. WATT STOPPER (LMSW–222 OR EQUAL).
- $W0 — 1–BUTTON LINE VOLTAGE, DUAL TECHNOLOGY, WALL OCCUPANCY SWITCH. WATT STOPPER (DSW–301–W OR EQUAL).
- R01 — SINGLE RELAY, ON/OFF, 0–10V DIMMING ROOM CONTROLLER. WATT STOPPER (LMRC–211 OR EQUAL).
- R02 — DUAL RELAY, ON/OFF, 0–10V DIMMING ROOM CONTROLLER. WATT STOPPER (LMRC–212 OR EQUAL).
- R03 — TRIPLE RELAY, ON/OFF, 0–10V DIMMING ROOM CONTROLLER. WATT STOPPER (LMRC–213 OR EQUAL).
- SINGLE RELAY, ON/OFF ROOM CONTROLLER. WATT STOPPER (LMRC–101 OR EQUAL).

OCCUPANT SENSING TECHNOLOGY IS TO BE PROGRAMMED AS VACANCY SWITCHES. THAT IS THE OPERATION SHALL BE MANUAL ON AND AUTO OFF.

GENERAL DIGITAL LIGHTING AND OCCUPANCY SENSOR NOTES:

1. COMPLIANCE WITH ENERGY CODE IS ACCOMPLISHED WITH THE USE OF THIS DIGITAL LIGHTING MANAGEMENT SYSTEM FOR CEILING/WALL MOUNTED LOW VOLTAGE OCCUPANCY SENSORS, LOW VOLTAGE DIGITAL SWITCHES, AND SWITCH MOUNTED, STAND ALONE, LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCHES. THE PREFERRED MANUFACTURER NOTED ABOVE IS WATT STOPPER. ANY SUBSTITUTIONS ARE PERMITTED, BUT PRIOR APPROVAL WILL BE MANDATORY. ALLOW TIME FOR THIS IF SUBSTITUTES ARE PROPOSED. CONSULT ENGINEER IF NECESSARY.
2. THE DIGITAL LIGHTING MANAGEMENT SYSTEM SHALL UTILIZE CAT 5e TECHNOLOGY AS SHOWN AND DETAILED ON PLANS. ENTIRE SYSTEM SHALL BE PLUG AND PLAY, AND PROGRAMMABLE. ALL CAT 5E CABLING FOR THIS SYSTEM SHALL BE GREEN OR APPROVED EQUAL BY THE ENGINEER/MANUFACTURER.
3. POST AWARD OF PROJECT, CONTRACTOR SHALL PROVIDE A COMPLETE SUBMITTAL PACKAGE OF ALL DEVICES USED WITH A DESCRIPTION OF FUNCTION FOR EACH AND ITS MAXIMUM ABILITY. ALL OCCUPANCY SENSORS SHALL BE FULLY PROGRAMMED TO THE OCCUPANT'S SATISFACTION WHETHER SHOWN ON PLANS OR NOT.
4. AS PART OF THE PROJECT, CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SCHEDULING A WATT STOPPER SERVICE TECH TO COMMISSION ALL DEVICES AND ZONES SHOWN ON THE PLANS. CONTRACTOR SHALL HAVE THIS DONE IN ADEQUATE TIME TO COMPLETE THE PROJECT ON SCHEDULE. CONTRACTOR'S FAILURE TO DO SO WILL NOT BE GROUNDS FOR A TIME EXTENSION. LIQUIDATED DAMAGES WILL APPLY AS PER NMSU'S REQUEST AT BID TIME. IN ADDITION TO SERVICING DEVICES AND ZONES, WATT STOPPER SERVICE TECH SHALL INCLUDE TWO ADDITIONAL HOURS OF TRAINING AND PRESENTATION TIME FOR THE OWNER AND END USERS TO MAINTAIN SYSTEM.
5. AFTER THE BUILDING HAS BEEN OCCUPIED, THE CONTRACTOR SHALL COME BACK MONTHLY FOR 3 MONTHS AND REPROGRAM ANY AND ALL SENSORS AS REQUESTED BY THE END USER TO THEIR COMPLETE SATISFACTION WITHOUT ADDITIONAL COST TO THE PROJECT.

COMMUNICATION SYSTEMS

HEIGHTS NOTED ARE TO CENTER LINE FROM FLOOR.

AS THE CONTRACTED AND LICENSED INSTALLER ON THE PROJECT NOTED ON THE TITLE BLOCK THIS CONTRACTOR WARRANTS AND GUARANTEES THAT ALL CONTROL AND OPERATING MECHANISMS HE/SHE INSTALLS WILL COMPLY WITH THE ACCESSIBILITY STANDARD AS ADOPTED AND MODIFIED BY THE STATE, WHETHER THE STANDARD IS ADAAG, LATEST EDITION OR ICC/ANSI A 117.1, LATEST EDITION. REACH RANGES SHALL BE COMPLIED WITH. THESE INCLUDE FORWARD REACH AND SIDE REACH, BOTH UNOBSTRUCTED AND OBSTRUCTED. THIS GUARANTEE SHALL EXTEND FOR THE TIME PERIOD AS NECESSARY FOR THE STATE ACCESSIBILITY INSPECTOR TO MAKE THE FINAL ON SITE ACCESSIBILITY INSPECTION. IN ANY CASE THE TIME PERIOD SHALL NOT EXCEED 36 MONTHS BEYOND THE DATE OF SUBSTANTIAL COMPLETION. ANY DEFICIENCIES FOUND BY THE ACCESSIBILITY STATE INSPECTOR ON THE ACCESSIBILITY FINAL INSPECTION SHALL BE CORRECTED WITHIN 30 DAYS BY THIS CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER. THE HEIGHTS CALLED FOR BY THE LEGEND AND AS SHOWN ON THE PLANS ARE SO SELECTED TO BE IN COMPLIANCE, HOWEVER CONSTRUCTION ADJUSTMENTS OCCUR IN THE FIELD OFTEN WITH OUT THE KNOWLEDGE OF THE ENGINEER, WHEN THIS HAPPENS THE CONTRACTOR IS AUTHORIZED AND EXPECTED TO ADJUST THE DEVICE HEIGHT IN THE FIELD AS NECESSARY.

- 2 — DATA/PHONE OUTLET FLUSH IN WALL COMPLETE WITH COVERPLATE, JACKS, AND (2)–CAT6A CABLES. JACK, DEVICE, AND CONNECTIONS FROM END TO END SHALL BE PROVIDED AND INSTALLED NMSU'S IT DEPT. X REPRESENTS NUMBER OF CAT6A CABLES AND RJ45 JACKS TO BE PROVIDED. E.C. SHALL PROVIDE CAT6 CABLES AND INFRASTRUCTURE WHICH INCLUDES A 4" SQ. BOX 2 1/8" DEEP, ONE GANG PLASTER RING, 1 1/4"C STUBBED TO ABOVE ACCESSIBLE CEILING WITH PULLSTRING. LOCATE AT +18" OR AS INDICATED. AT THE TIME OF FINAL INSPECTION E.C. SHALL PROVIDE A BLANK COVER PLATE ON ALL BOXES THAT HAVE NOT BEEN USED TO INSTALL AN OUTLET. PROVIDE A BUSHING ON THE CONDUIT STUB.
- WF — CEILING MOUNT WIRELESS ACCESS POINT DEVICE COMPLETE WITH (1)–CAT6A CABLE. DEVICE SHALL BE PROVIDED AND INSTALLED BY NMSU'S IT DEPT. E.C. SHALL PROVIDE CAT6 CABLING AND INFRASTRUCTURE WHICH INCLUDES A 4" SQ. BOX 2 1/8" DEEP, ONE GANG PLASTER RING, 1"C STUBBED TO ABOVE ACCESSIBLE CEILING. LOCATE AS INDICATED. AT THE TIME OF FINAL INSPECTION E.C. SHALL PROVIDE A BLANK COVER PLATE ON ALL BOXES THAT HAVE NOT BEEN USED TO INSTALL DEVICE. PROVIDE A BUSHING ON THE CONDUIT STUB.
- HDMI — HDMI OUTLET FLUSH IN WALL COMPLETE WITH HDMI CABLE, FEMALE ADAPTERS, JACKS, AND COVERPLATE. OUTLET, JACKS, CABLE, ADAPTERS, AND COVERPLATE SHALL BE PROVIDED AND INSTALLED BY E.C. PROVIDE WITH CORRECT HDMI CABLE LENGTH. E.C. SHALL SHALL ALSO PROVIDE INFRASTRUCTURE WHICH INCLUDES A 4" SQ. BOX 2 1/8" DEEP, ONE GANG PLASTER RING, 1 1/4"C STUBBED TO ABOVE ACCESSIBLE CEILING. UP +18" OR AS INDICATED. AT THE TIME OF FINAL INSPECTION THE CONTRACTOR SHALL PROVIDE A BLANK COVER PLATE ON ALL BOXES THAT HAVE NOT BEEN USED TO INSTALL AN OUTLET. PROVIDE A BUSHING ON THE CONDUIT STUB.
- HDMI — HDMI OUTLET FLUSH WITH CEILING COMPLETE WITH HDMI CABLE, FEMALE ADAPTERS, JACKS, AND COVERPLATE. OUTLET, JACKS, CABLE, ADAPTERS, AND COVERPLATE SHALL BE PROVIDED AND INSTALLED BY E.C. PROVIDE WITH CORRECT HDMI CABLE LENGTH. E.C. SHALL SHALL ALSO PROVIDE INFRASTRUCTURE WHICH INCLUDES A 4" SQ. BOX 2 1/8" DEEP, ONE GANG PLASTER RING, 1 1/4"C STUBBED TO ABOVE ACCESSIBLE CEILING. UP +18" OR AS INDICATED. AT THE TIME OF FINAL INSPECTION THE CONTRACTOR SHALL PROVIDE A BLANK COVER PLATE ON ALL BOXES THAT HAVE NOT BEEN USED TO INSTALL AN OUTLET. PROVIDE A BUSHING ON THE CONDUIT STUB.

IN CMU WALL CONSTRUCTION ROUGH–IN BOXES FOR WIRING DEVICES MAY BE ADJUSTED ABOVE 18" OR BELOW 44" AS APPROVED IN THE FIELD TO HELP MINIMIZE CUTS IN CMU BLOCKS, AS LONG AS THE HEIGHTS ARE IN KEEPING WITH ADA HEIGHTS.

FIRE ALARM SYSTEMS

HEIGHTS NOTED ARE TO CENTER LINE FROM FLOOR.

AS THE CONTRACTED AND LICENSED INSTALLER ON THE PROJECT NOTED ON THE TITLE BLOCK THIS CONTRACTOR WARRANTS AND GUARANTEES THAT ALL MANUAL DEVICES, AUDIO AND VISUAL ALARMS HE/SHE INSTALLS COMPLY WITH THE ACCESSIBILITY STANDARD AS ADOPTED AND MODIFIED BY THE STATE, WHETHER THE STANDARD IS ADAAG, LATEST EDITION OR ICC/ANSI A117–1 LATEST EDITION. ACCESSIBLE FIRE ALARMS SHALL HAVE AUDIBLE AND VISUAL ALARM COMPLYING WITH APPROPRIATE SECTIONS. THIS GUARANTEE SHALL EXTEND FOR THE IME PERIOD AS NECESSARY FOR THE STATE ACCESSIBILITY INSPECTOR TO MAKE THE FINAL ON SITE ACCESSIBILITY INSPECTION. IN ANY CASE THE TIME PERIOD SHALL NOT EXCEED 36 MONTHS BEYOND THE DATE OF SUBSTANTIAL COMPLETION. ANY DEFICIENCIES FOUND BY THE ACCESSIBILITY STATE INSPECTOR ON THE ACCESSIBILITY FINAL INSPECTION SHALL BE CORRECTED WITHIN 30 DAYS BY THIS CONTRACTOR. WITHOUT ADDITIONAL COST TO THE OWNER. THE HEIGHTS CALLED FOR BY THE LEGEND AND AS SHOWN ON THE PLANS ARE FOR WALL MOUNTED APPLIANCES, AND ARE SO SELECTED TO BE IN COMPLIANCE, HOWEVER CONSTRUCTION ADJUSTMENT OCCUR IN THE FIELD, OFTEN WITHOUT THE KNOWLEDGE OF THE ENGINEER, WHEN THIS HAPPENS THE CONTRACTOR IS AUTHORIZED AND EXPECTED TO ADJUST THE DEVICE HEIGHT IN THE FIELD AS NECESSARY. WHEN THE DRAWINGS SHOW CEILING MOUNTED APPLIANCES THE SAME COMPLIANCE IS REQUIRED.

- F — WALL MOUNTED FA MANUAL PULL STATION. LOCATED 44" A.F.F. OR AS PERMITTED PER NFPA 72.
- WALL MOUNTED FA HORN/STROBE APPLIANCE. LOCATED 80" A.F.F. OR AS PERMITTED PER NFPA 72.
- CEILING MOUNTED FA HORN/STROBE APPLIANCE. LOCATE AS SHOWN OR AS PERMITTED PER NFPA 72.
- WALL MOUNTED FA STROBE APPLIANCE. LOCATED 80" A.F.F. OR AS PERMITTED PER NFPA 72.
- CEILING MOUNTED FA STROBE APPLIANCE. LOCATE AS SHOWN OR AS PERMITTED PER NFPA 72.
- CEILING MOUNTED FA SMOKE DETECTOR APPLIANCE. LOCATE AS SHOWN OR AS PERMITTED PER NFPA 72.
- FAR — WALL MOUNTED FIRE ALARM REMOTE ANNUNCIATOR. LOCATE AS SHOWN.
- FACP — WALL MOUNTED FIRE ALARM CONTROL PANEL WITH AUTO DIALER. LOCATE AS SHOWN.
- FCPS — WALL MOUNTED FA FIELD CHARGING POWER SUPPLY PANEL. LOCATE AS SHOWN.
- FATC — WALL MOUNTED FIRE ALARM TERMINAL CABINET. LOCATE AS SHOWN.

GENERAL NOTES

A. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT LOCATIONS OF EQUIPMENT, CONDUIT ROUTING, OBSTRUCTIONS, ETC. PLANS ARE TO BE USED AS A GENERAL GUIDELINE AND ARE NOT INTENDED TO BE SPECIFIC INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL CONSTRUCT ACCORDING TO CODE AND/OR MANUFACTURER'S INSTALLATION.

B. DRAWINGS ARE BASED UPON ARCHITECTURAL PLANS AND/OR FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND ROUTINGS PRIOR TO BIDDING.

C. CONTRACTOR SHALL EXPECT TO MAKE SOME ROUTINE ADJUSTMENTS DURING THE COURSE OF CONSTRUCTION. COORDINATE CHANGES WITH ENGINEER AND KEEP RECORD OF CHANGES FOR AS–BUILTS.

D. NO TYPE NM CABLE, ROMEX, AND/OR AC CABLE MAY BE USED IN THIS BUILDING. 3/4" OR LARGER EMT, AND IMC CONDUITS ARE APPROVED WIRING METHODS FOR THIS BUILDING. MC CABLE MAY ONLY BE USED FOR FIXTURE WHIPS AT LENGTHS NO GREATER THAN SIX FEET. PVC CONDUIT CAN BE UTILIZED ONLY WHERE NOTED.

E. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TYPED DIRECTORIES FOR ALL EXISTING AND NEW ELECTRICAL PANELS SHOWN AND THAT HAVE BEEN MODIFIED. LABEL PER PANEL SCHEDULES. ANY CHANGES SHALL BE APPROVED BY THE ENGINEER AND NOTED ON AS–BUILTS. CONSULT ENGINEER IF NECESSARY.

F. CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES REQUIRED BY THE GOVERNING BODIES.

G. CONTRACTOR SHALL PROVIDE PROPER FIRE SEALANT FOR ALL CONDUITS PENETRATIONS THRU FIRE RATED WALLS AND SMOKE WALLS.

H. CONTRACTOR SHALL ROUTE AND RUN ALL POWER SEPARATE FROM ANY AND ALL SPECIAL SYSTEMS CONDUIT AND WIRING. ALL SPECIAL SYSTEMS UTILIZING CONDUIT SHALL BE PROVIDED WITH PULL STRING AND STUBBED/ROUTED TO AN ACCESSIBLE CEILING.

I. ALL CONDUIT SHALL BE CONCEALED, EXCEPT WHERE NOTED OTHERWISE. IF SHOWN OR NOTED TO BE EXPOSED, CONDUIT RUNS SHALL BE NEATLY GROUPED TOGETHER AND BE SQUARE AND TRUE TO THE BUILDING LINES. ALL CONDUIT SHALL BE SUPPORTED TO THE STRUCTURE U.N.O. AND PAINTED TO MATCH SURFACES THEY ARE MOUNTED TO.

J. CONTRACTOR SHALL VERIFY AND COORDINATE ALL WIRING DEVICES WITH FINAL FURNITURE LAYOUT, EQUIPMENT LAYOUT, AND ARCHITECTURAL PLANS PRIOR TO ANY ROUGH–IN AND INSTALLATION. COORDINATE ALL POWER AND DATA OUTLET INSTALLATIONS IN, AT, AND AROUND MILLWORK. LABEL ALL OUTLETS AND SWITCHES WITH CIRCUIT NUMBER(S) AND PANEL(S) BEING FED FROM.

K. PROVIDE WHITE WIRING DEVICES WITH STAINLESS STEEL COVERPLATES.

L. CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT AND DUCTWORK LAYOUT PRIOR TO INSTALLATION. PROVIDE CLEARANCES AROUND FIXTURES FOR MAINTENANCE PURPOSES.

STATE OF NM GEN. NOTES

A. THE MOUNTING HEIGHT OF WIRING OR CONTROL DEVICES (SWITCHES, OUTLETS, CONTROLS, DATA JACKS, PHONE JACKS, THERMOSTATS, FIRE ALARM, ELECTRIC DOOR PUSH BUTTONS, ETC.) MUST BE MOUNTED TO COMPLY WITH THE STATE OF NEW MEXICO STANDARDS FOR ACCESSIBILITY. SPECIFICALLY, OUTLETS MUST BE MOUNTED AT MINIMUM 18" A.F.F. TO THE BOTTOM OF THE BOX, AND SWITCHES AND OTHER CONTROLS AT 44" A.F.F. TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. DEVICES ABOVE COUNTER TOPS AND OBSTRUCTIONS SHALL COMPLY WITH ANSI 117.1.

B. THE DESIGN OF THE PROJECT IS BASED ON COPPER WIRE, #12 AWG AS THE MINIMUM SIZE. THE BRANCH CIRCUIT WIRING SYSTEM SHALL LIMIT VOLTAGE DROP TO 5% AT THE FURTHEST OUTLET. THE CONTRACTOR SHALL UTILIZE LARGER WIRE SIZES AS NEEDED TO MAINTAIN THIS LIMIT. IT WILL NOT BE UNCOMMON FOR #10 AWG TO BE REQUIRED. AS A RULE OF THUMB, BRANCH CIRCUIT CONDUCTOR LENGTHS LONGER THAN 80' MAY REQUIRE #10 AWG WIRING. CONTRACTOR SHALL UPGRADE WIRING AS NEEDED WHETHER SHOWN ON THE PLANS OR NOT TO COMPLY WITH THE STATE OF NEW MEXICO STANDARDS FOR VOLTAGE DROP.

C. THE CONTRACTOR MAY INSTALL UP TO 6 CURRENT CARRYING CONDUCTORS IN A CONDUIT. LOADINGS ARE BASED ON DERATINGS FOR UP TO 6 CONDUCTORS AND AN AMBIENT TEMPERATURE OF 122 DEGREES F. THE CONTRACTOR MUST REVISE AMPACITIES FOR OTHER CONDITIONS. CONTACT THE ENGINEER IF NECESSARY.

D. EMERGENCY EXTERIOR AND INTERIOR LIGHTING IS EXISTING TO REMAIN IN PLACE AND OPERATIONAL. NO NEW EXTERIOR LIGHTING WILL BE IMPLEMENTED. INTERIOR LIGHTING FOR THE REMODELED AREA WILL BE PROVIDED WITH NEW.

E. EXTERIOR FIXTURES ARE NOT REQUIRED TO BE SCHEDULED TO BE INSTALLED ON THIS PROJECT. IF PROVIDED, THEY MUST COMPLY WITH THE STATE OF NEW MEXICO'S NIGHT SKY PROTECTION ACT. CONTACT THE ENGINEER IF NECESSARY.

FIRE ALARM (FA) SYSTEM COMPONENTS - INCLUDED AS PART OF THE CONSTRUCTION DOCUMENTS

CONTRACTOR SHALL FURNISH, INSTALL, AND IS RESPONSIBLE FOR, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS LISTED BELOW:

- THE REMOVAL OF THE EXISTING FIRE ALARM CONTROL PANEL, CHARGING POWER SUPPLIES, FA DEVICES, WIRING, AND ANY AND ALL ASSOCIATED COMPONENTS, BOXES, AND CONDUIT.
- A NEW ADDRESSABLE FIRE ALARM CONTROL PANEL "SILENT KNIGHT" BY HONEYWELL,
- ALL NEW FIELD CHARGING FA POWER SUPPLIES,
- A NEW CELLULAR AUTO–DIALER,
- ALL NEW FIRE ALARM DEVICES AND MODULES,
- ALL NEW FA COLOR CODED PLENUM RATED CABLING (RED),
- ALL FA RECESSED AND SURFACE MOUNT BACK–BOXES, ROUGH–IN'S, AND CONDUIT PATHWAYS (PROVIDED AND INSTALLED BY E.C.),
- (100)–2", VERTICAL DOUBLE STACK, J–HOOKS MOUNTED EVERY 6' ON VERTICAL WALLS, NOT SUSPENDED IN MID–AIR, OPPOSITE OF DUCTWORK AS MUCH AS POSSIBLE THROUGHOUT BUILDING.

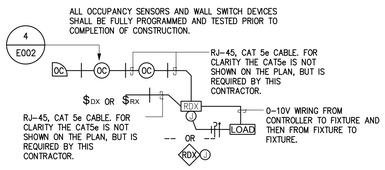
ALL NEW ADDRESSABLE FIRE ALARM (FA) EQUIPMENT, COMPONENTS, CABINETS, POWER SUPPLIES, DEVICES, CABLING, ETC. WITH THE EXCEPTION OF THE E.C. PROVIDED AND/OR INSTALLED NOTATIONS ABOVE, REQUIRED TO BE PROVIDED FOR THIS PROJECT ARE TO BE PERFORMED BY NMSU'S PREFERRED VENDOR "DIMAR SYSTEMS OF LAS CRUCES, NM". VENDOR SHALL PROVIDE A TURN–KEY SYSTEM TO THE SPECIFICATIONS REQUIRED BY NMSU AND AS NOTED/SHOWN ON THESE ELECTRICAL AND SPECIAL SYSTEM PLANS. THE VENDOR IS TO BE A 1ST TIER SUBCONTRACTOR UNDER THE GENERAL CONTRACTOR. DRAWINGS AND SPECIFICATIONS MAY NOT INCLUDE ALL REQUIRED COMPONENTS AND EQUIPMENT. VENDOR IS RESPONSIBLE AS PART OF THE CONSTRUCTION CONTRACT TO PROVIDE ANY AND ALL EQUIPMENT AND COMPONENTS, WHETHER SHOWN OR NOT ON THE PLANS, FOR A FULLY COMPLETED FUNCTIONAL SYSTEM INCLUDING ALL WIRING, ELECTRONICS, FINAL CONNECTIONS, TERMINATION, LABELING, TESTING, ETC. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING SURE COORDINATION BETWEEN THE E.C. AND THE VENDOR IS ACCOMPLISHED PRIOR TO ANY ROUGH–IN. REFER TO THE ELECTRICAL AND SPECIAL SYSTEM PLANS FOR MORE INFORMATION AND DIRECTION. NMSU'S MAINTENANCE DEPT. SHALL SUPERVISE THE INSTALLATION, INSPECTING, AND TESTING OF THE SYSTEM. CONTACT DIMAR SYSTEMS AT 575.382.0035 FOR QUOTE AND INFORMATION NEEDED ON THIS PROJECT.

CAMERA (CCTV) SYSTEM COMPONENTS - INCLUDED AS PART OF THE CONST. DOCUMENTS

CONTRACTOR SHALL FURNISH AND INSTALL AND IS RESPONSIBLE FOR, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS LISTED BELOW:

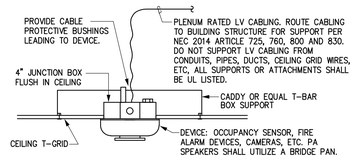
- THE REMOVAL OF THE EXISTING CCTV CONSOLE, CCTV DEVICES, WIRING, AND ANY AND ALL ASSOCIATED COMPONENTS, BOXES, AND CONDUIT.
- ALL NEW IP BASED, CCTV CAMERA CONS

WATTSTOPPER OR APPROVED EQUAL DIGITAL LIGHTING MANAGEMENT SYSTEM. SYSTEM IS BASED ON CAT 5e CABLING PLUG-N-LEARN TECHNOLOGY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CABLING SHOWN ON DETAIL FOR ALL ROOMS WHERE TECHNOLOGY IS BEING UTILIZED. PROVIDE INTERCONNECTIONS FROM DEVICE TO DEVICE.



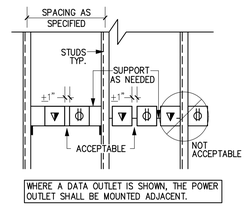
DLM WIRING DIAGRAM DETAIL

3 E002 SCALE: NONE



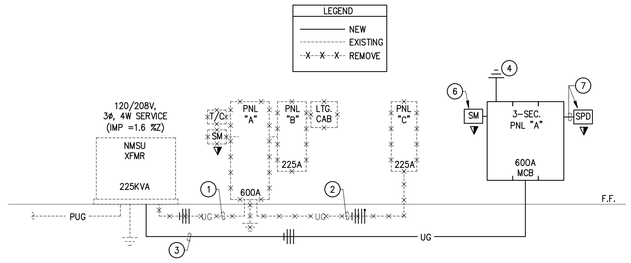
DEVICE CEILING SUPPORT DETAIL

4 E002 SCALE: NONE



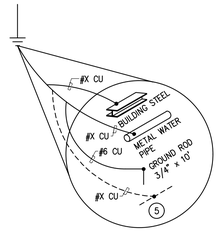
DATA / OUTLET BOX DETAIL

5 E002 SCALE: NONE



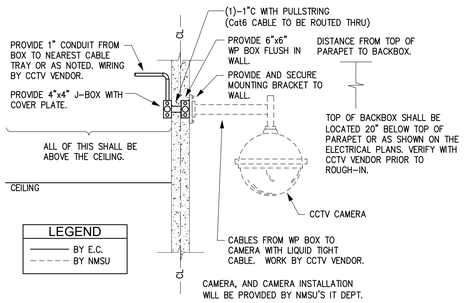
POWER RISER DIAGRAM

1 E002 SCALE: NONE



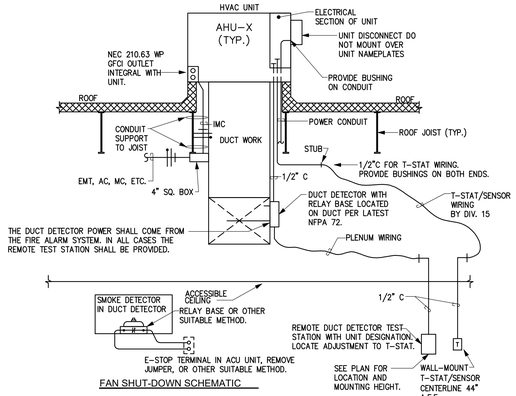
GROUNDING DETAIL

2 E002 SCALE: NONE



SECURITY CAMERA WALL BRACKET MOUNT DETAIL

6 E002 SCALE: NONE



TYPICAL ACU POWER CONNECTION

7 E002 SCALE: NONE

PANEL **A** SECTION-1 — DESCRIPTION 208/120V, 3PH, 4W, 600 AMP MAIN CIRCUIT BREAKER, 42,000 AIC, SURFACE MOUNTED, DOOR-IN-DOOR, NEUTRAL BAR, GROUND BAR, FEED-THRU LUGS

CCT NO.	LOAD DESCRIPTION	BKR SIZE	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BKR SIZE	LOAD DESCRIPTION	CCT NO
1	INTERIOR LIGHTING (E)	20/1	1000	1900			900	20/1	OUTLETS	2
3	INTERIOR LIGHTING SEATING	20/1	1800		2700		900	20/1	OUTLETS	4
5	INTERIOR LIGHTING STAGE	20/1	1200			2100	900	20/1	OUTLETS	6
7	INTERIOR LIGHTING (W)	20/1	1200	2100			900	20/1	OUTLETS	8
9	EXTERIOR LIGHTING	20/1	1200		2100		900	20/1	OUTLETS	10
11	OUTLETS	20/1	900			1800	900	20/1	OUTLETS	12
13	OUTLETS	20/1	900	1800			900	20/1	OUTLETS	14
15	OUTLETS	20/1	900		1800		900	20/1	OUTLETS	16
17	OUTLETS	20/1	900			1800	900	20/1	OUTLETS	18
19	OUTLETS	20/1	900	1800			900	20/1	OUTLETS	20
21	OUTLETS	20/1	900		1800		900	20/1	OUTLETS	22
23	OUTLETS	20/1	900			1800	900	20/1	OUTLETS	24
25	OUTLETS	20/1	900	1800			900	20/1	OUTLETS	26
27	SPARE	20/1			0			20/1	SPARE	28
29	SPARE	20/1				0		20/1	SPARE	30
31	SPARE	20/1		0				20/1	SPARE	32
33	SPARE	20/1			0			20/1	SPARE	34
35	SPARE	20/1				0		20/1	SPARE	36
37	SPARE	20/1		0				20/1	SPARE	38
39	SPARE	20/1			0			20/1	SPARE	40
41	SPARE	20/1				0		20/1	SPARE	42
				40800	44600	44600	(Panel 'A1.2' SECTION-2)			
				50200	53000	52100				
			Total KVA	155.3	208V	431	Amps			

SizTrec Systems, Panel_Ez v1.1a

PANEL **A** SECTION-2 — DESCRIPTION 208/120V, 3PH, 4W, 600 AMP MAIN LUGS ONLY, 42,000 AIC, SURFACE MOUNTED, DOOR-IN-DOOR, NEUTRAL BAR, GROUND BAR, FEED-THRU LUGS

CCT NO.	LOAD DESCRIPTION	BKR SIZE	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BKR SIZE	LOAD DESCRIPTION	CCT NO
43	OUTLETS	20/1	900	1800			900	20/1	OUTLETS	44
45	OUTLETS	20/1	900		1800		900	20/1	OUTLETS	46
47	OUTLETS	20/1	900			1800	900	20/1	OUTLETS	48
49	OUTLETS	20/1	900	1800			900	20/1	OUTLETS	50
51	OUTLETS	20/1	900		1800		900	20/1	OUTLETS	52
53	OUTLETS	20/1	900			1800	900	20/1	OUTLETS	54
55	SPARE	20/1		0				20/1	SPARE	56
57	SPARE	20/1			0			20/1	SPARE	58
59	SPARE	20/1				0		20/1	SPARE	60
61	SPARE	20/1		0				20/1	SPARE	62
63	SPARE	20/1			0			20/1	SPARE	64
65	SPARE	20/1				0		20/1	SPARE	66
67	SPARE	20/1		0				20/1	SPARE	68
69	SPARE	20/1			0			20/1	SPARE	70
71	SPARE	20/1				0		20/1	SPARE	72
73	SPARE	20/1		0				20/1	SPARE	74
75	SPARE	20/1			0			20/1	SPARE	76
77	SPARE	20/1				0		20/1	SPARE	78
79	SPARE	20/1		0				20/1	SPARE	80
81	SPARE	20/1			0			20/1	SPARE	82
83	SPARE	20/1				0		20/1	SPARE	84
				37200	41000	41000	(Panel 'A1.3' SECTION-3)			
				40800	44600	44600				
			Total KVA	130.0	208V	361	Amps			

SizTrec Systems, Panel_Ez v1.1a

PANEL **A** SECTION-3 — DESCRIPTION 208/120V, 3PH, 4W, 600 AMP MAIN LUGS ONLY, 42,000 AIC, SURFACE MOUNTED, DOOR-IN-DOOR, NEUTRAL BAR, GROUND BAR

CCT NO.	LOAD DESCRIPTION	BKR SIZE	LOAD (VA)	PHASE A	PHASE B	PHASE C	LOAD (VA)	BKR SIZE	LOAD DESCRIPTION	CCT NO
85	SPARE	20/1		0				20/1	SPARE	86
87	SPARE	20/1			0			20/1	SPARE	88
89	SPARE	20/1				0		20/1	SPARE	90
91	SPARE	20/1		0				20/1	SPARE	92
93	SPARE	20/1			0			20/1	SPARE	94
95	SPARE	20/1				0		20/1	SPARE	96
97	SPARE	20/1		0				20/1	SPARE	98
99	SPARE	20/1			0			20/1	SPARE	100
101	SPARE	20/1				0		20/1	SPARE	102
103	SPARE	20/1		0				20/1	SPARE	104
105	CU-1	30/2	1900		3800		1900	30/2	CU-2	106
107	***	***	1900			3800	1900	***	***	108
109	ACU-1	50/3	5500	10400			4900	45/3	ACU-4	110
111	***	***	5500		10400		4900	***	***	112
113	***	***	5500			10400	4900	***	***	114
115	ACU-2	70/3	7900	13400			5500	50/3	ACU-5	116
117	***	***	7900		13400		5500	***	***	118
119	***	***	7900			13400	5500	***	***	120
121	ACU-3	70/3	7900	13400			5500	50/3	ACU-6	122
123	***	***	7900		13400		5500	***	***	124
125	***	***	7900			13400	5500	***	***	126
				37200	41000	41000				
			Total KVA	119.2	208V	331	Amps			

SizTrec Systems, Panel_Ez v1.1a

KEYED NOTES

1 XXXXX

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75% CONSTRUCTION DOCUMENTS
PROGRESS SET 02/11/2025

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

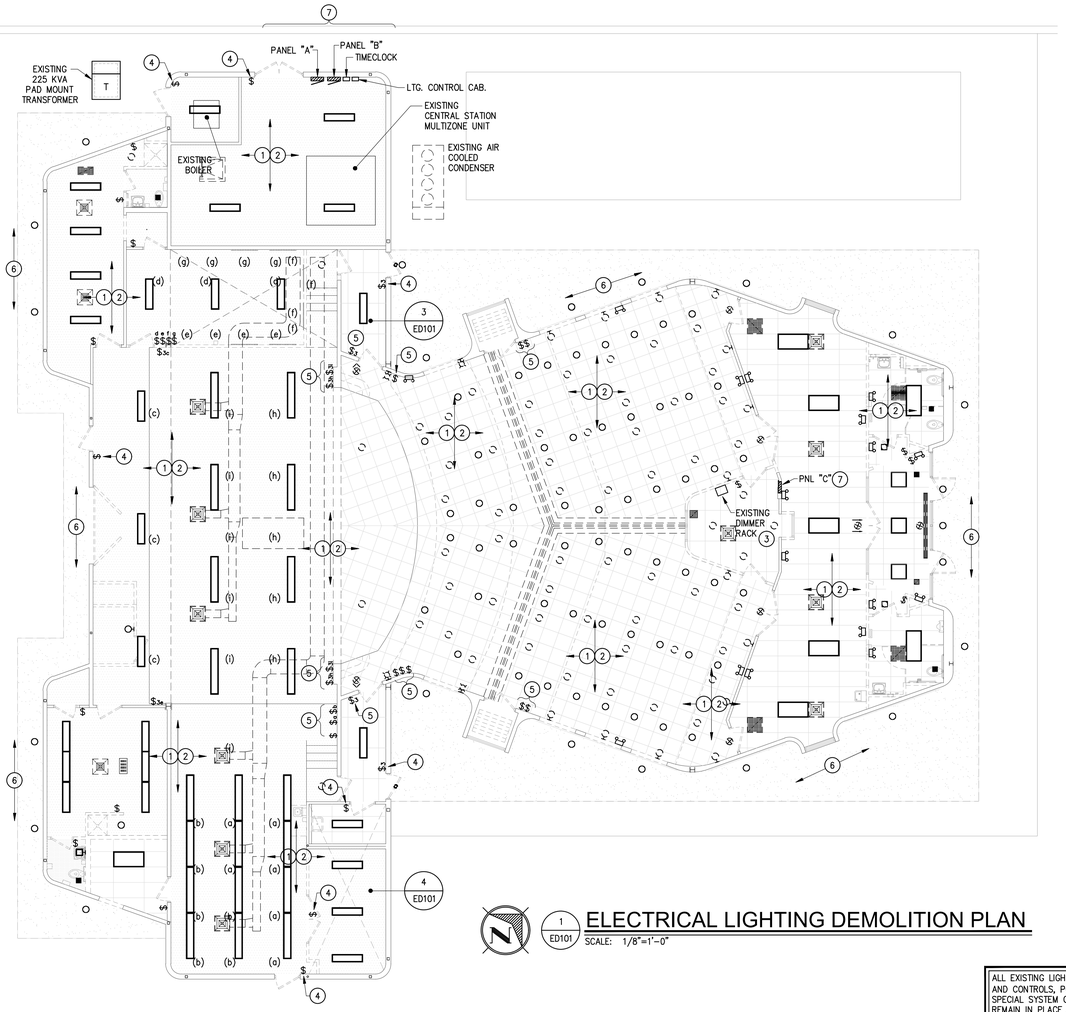
Date: 02/11/2025 | Scale: AS SHOWN
Drawn by: RBM | Checked by: RBM
Revisions:

Title: ELECTRICAL RISER, NOTES, DETAILS, AND SCHEDULES
Project No.: NMSU2023-01

E002

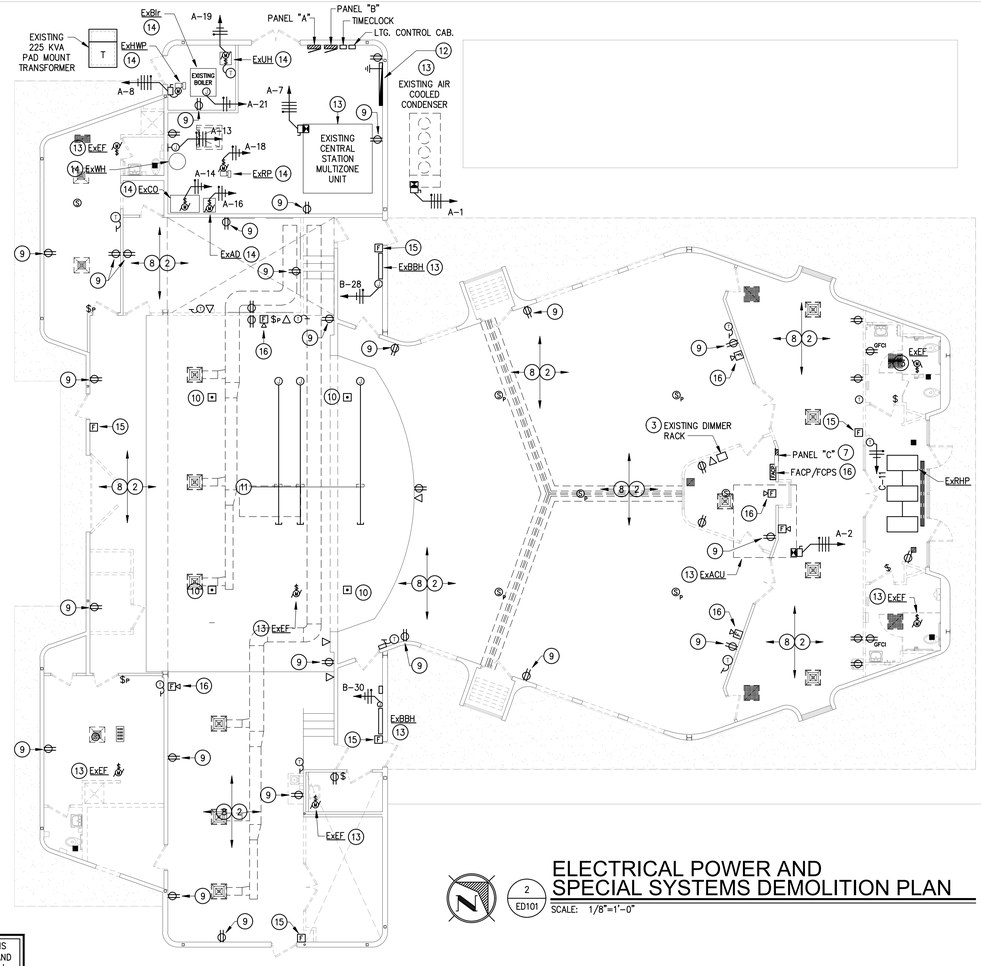
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1 ED101 ELECTRICAL LIGHTING DEMOLITION PLAN

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



2 ED101 ELECTRICAL POWER AND SPECIAL SYSTEMS DEMOLITION PLAN

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

ALL EXISTING LIGHTING, HVAC POWER CONNECTIONS AND CONTROLS, POWER/DATA/PHONE OUTLETS, AND SPECIAL SYSTEM COMPONENTS AND DEVICES SHALL REMAIN IN PLACE AND OPERATIONAL U.N.O. TO BE REMOVED, REPLACED, RELOCATED AND/OR OTHERWISE PER THIS DESIGN.

GENERAL DEMO NOTES:

A. THESE SCHEMATIC DRAWINGS DO NOT REPRESENT OR SHOW ALL EXISTING CONDUIT, WIRING, EQUIPMENT, STANDS & SUPPORTS, AND/OR ROOF PENETRATIONS. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT/CONDUIT SYSTEM INFORMATION SHOWN OR NOTED ARE BASED ON AVAILABLE PLANS AND FIELD OBSERVATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXACT LOCATIONS OF THE ITEMS MENTIONED ABOVE AND COORDINATE WITH THE ARCHITECTURAL/MECHANICAL PLANS AS TO WHAT IS TO REMAIN IN PLACE AND OPERATIONAL AND TO WHAT IS TO BE PART OF THE DEMOLITION WORK PRIOR TO ANY WORK.

B. ANY EQUIPMENT TAGGED TO BE REMOVED THAT IS CONNECTED TO EQUIPMENT OR OUTLETS TO REMAIN, SHALL BE PROVIDED WITH SPLICE BOXES ABOVE AN ACCESSIBLE CEILING TO MAINTAIN CIRCUITRY AND FUNCTIONALITY OF THOSE ITEMS MENTIONED.

C. DEMOLITION OF WIRING, DISCONNECTS, AND/OR EQUIPMENT THAT IS SUBJECT TO REMAIN OR BE RE-LOCATED, CONTRACTOR IS RESPONSIBLE FOR RE-CONNECTION OF THAT EQUIPMENT IMMEDIATELY AND MAKE OPERATIONAL.

D. ALL LOW VOLTAGE CONDUIT, CABLING AND EQUIPMENT SHALL BE REMOVED IN ITS ENTIRETY U.N.O. ANY EXISTING LOW VOLTAGE EQUIPMENT SHALL BE COORDINATED WITH THE OWNER.

E. CONTRACTOR SHALL RE-USE EXISTING CONDUIT PENETRATIONS AND/OR CONDUIT SYSTEMS WHERE APPLICABLE. IF NOT RE-USED, PATCH, PAINT, AND REPAIR AS REQUIRED. IN ALL CASES, CUT, PATCH, PAINT, AND REPAIR TO MATCH EXISTING CONDITIONS AND/OR AS SHOWN IN THE ARCHITECTURAL PLANS.

F. EXISTING CEILINGS SCHEDULED TO BE REMOVED AND REPLACED WITH NEW IN ROOMS/AREAS NOTED ON THE ARCHITECTURAL PLANS HAVE SUB CEILINGS THAT ALSO NEED TO BE REMOVED/REWORKED.

G. CONTRACTOR IS RESPONSIBLE FOR RE-SUPPORTING ANY AND ALL LOW VOLTAGE WIRING AND CONDUIT SYSTEMS ATTACHED TO THE SUB CEILING NOTED ABOVE PROPERLY FROM THE STRUCTURE. COORDINATE WITH THE G.C. PRIOR TO ANY WORK.

KEYED NOTES

1. REMOVE ALL EXISTING LIGHT FIXTURE(S), EXIT SIGNS, AND ASSOCIATED LIGHT SWITCHES IN THIS ROOM/AREA IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE. IF SWITCH(ES) ARE LOCATED ON A SHEET ROCK WALL THAT IS TO REMAIN, REMOVE ROUGH-IN BOX AND ABANDON CONDUIT IN PLACE. PATCH AND REPAIR WALL AS NOTED ON THE ARCHITECTURAL PLANS. IF LOCATED ON A CEMENT WALL THAT IS TO REMAIN, REFER TO KEYED NOTE 5 FOR MORE DIRECTION.
2. REMOVE ANY AND ALL EXISTING WALL AND CEILING/STRUCTURE MOUNTED ELECTRICAL AND SPECIAL SYSTEM DEVICES AND EQUIPMENT (POWER/DATA OUTLETS, FA DEVICES, PA DEVICES, INTRUSION DEVICES, CAMERAS, W-FI ACCESS POINTS, ETC.) IN THIS ROOM/AREA IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
3. REMOVE EXISTING DIMMER RACK SHOWN AT THIS LOCATION IN IT'S ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
4. REMOVE EXISTING SWITCH AND ASSOCIATED WIRING AT THIS LOCATION. MAINTAINED ROUGH-IN FOR NEW SWITCH SCHEDULED. REFER TO THE NEW WORK PLANS FOR MORE DIRECTION.
5. REMOVE EXISTING SWITCH AND ASSOCIATED WIRING AT THIS LOCATION. PROVIDE A STAINLESS STEEL COVER-PLATE FOR CONCEALMENT AT ROUGH-IN BOX AND ABANDON CONDUIT IN PLACE. IF ROUGH-IN AND CONDUIT ARE EXPOSED ON WALL, REMOVE IN THEIR ENTIRETY. REFER TO THE ARCHITECTURAL PLANS FOR MORE DIRECTION.
6. EXISTING EXTERIOR CANOPY AND BLDG. WALL ARE SCHEDULED TO BE REMOVED/MODIFIED AS PART OF THIS PROJECT. REMOVE ALL EXISTING LIGHTING IN IT'S ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
7. REMOVE EXISTING PANEL/ELECTRICAL GEAR SHOWN AT THIS LOCATION IN ITS ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE. REFER TO THE POWER RISER DIAGRAM FOR MORE DIRECTION.
8. REMOVE ALL EXISTING POWER OUTLETS, SPECIAL SYSTEM DEVICES/OUTLETS, HVAC CONTROLS, AND ASSOCIATED CABLING/WIRING IN THIS ROOM/AREA IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE. IF SWITCH(ES)/CONTROL(S) ARE LOCATED ON A SHEET ROCK WALL THAT IS TO REMAIN, REMOVE ROUGH-IN BOX AND ABANDON CONDUIT IN PLACE. PATCH AND REPAIR WALL AS NOTED ON THE ARCHITECTURAL PLANS. IF LOCATED ON A CEMENT WALL THAT IS TO REMAIN, REFER TO KEYED NOTE 9 FOR MORE DIRECTION.
9. REMOVE EXISTING WIRING DEVICE AND ASSOCIATED WIRING AT THIS LOCATION. PROVIDE A STAINLESS STEEL COVER-PLATE FOR CONCEALMENT AT ROUGH-IN BOX AND ABANDON CONDUIT IN PLACE. IF ROUGH-IN AND CONDUIT ARE EXPOSED ON WALL, REMOVE IN THEIR ENTIRETY. REFER TO THE ARCHITECTURAL PLANS FOR MORE DIRECTION.
10. REMOVE EXISTING STAGE POWER OUTLET BOX AT THIS LOCATION IN IT'S ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
11. REMOVE EXISTING STAGE CEILING MOUNTED POWER STRIPS IN THIS ROOM/AREA IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
12. REMOVE AND RELOCATE EXISTING TELEPHONE DEMARC SHOWN AT THIS LOCATION IN ITS ENTIRETY. RELOCATE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING. REFER TO THE NEW WORK PLANS FOR MORE DIRECTION.
13. EXISTING HVAC UNIT IS SCHEDULED TO BE REMOVED IN IT'S ENTIRETY. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL AND SPECIAL SYSTEM CONNECTIONS IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
14. EXISTING HVAC/PLUMBING EQUIPMENT IS SCHEDULED TO BE REMOVED IN IT'S ENTIRETY. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL AND SPECIAL SYSTEM CONNECTIONS IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING BACK TO THE POINT OF SOURCE.
15. REMOVE EXISTING FA DEVICE AND ASSOCIATED WIRING AT THIS LOCATION. MAINTAINED ROUGH-IN FOR NEW FA DEVICE SCHEDULED. REFER TO THE NEW WORK PLANS FOR MORE DIRECTION.
16. REMOVE AND RELOCATE EXISTING FIRE ALARM CONTROL PANEL SHOWN AT THIS LOCATION IN ITS ENTIRETY. RELOCATE ALL ASSOCIATED BOXES, CONDUIT, AND WIRING. REFER TO THE NEW WORK PLANS FOR MORE DIRECTION.

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ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

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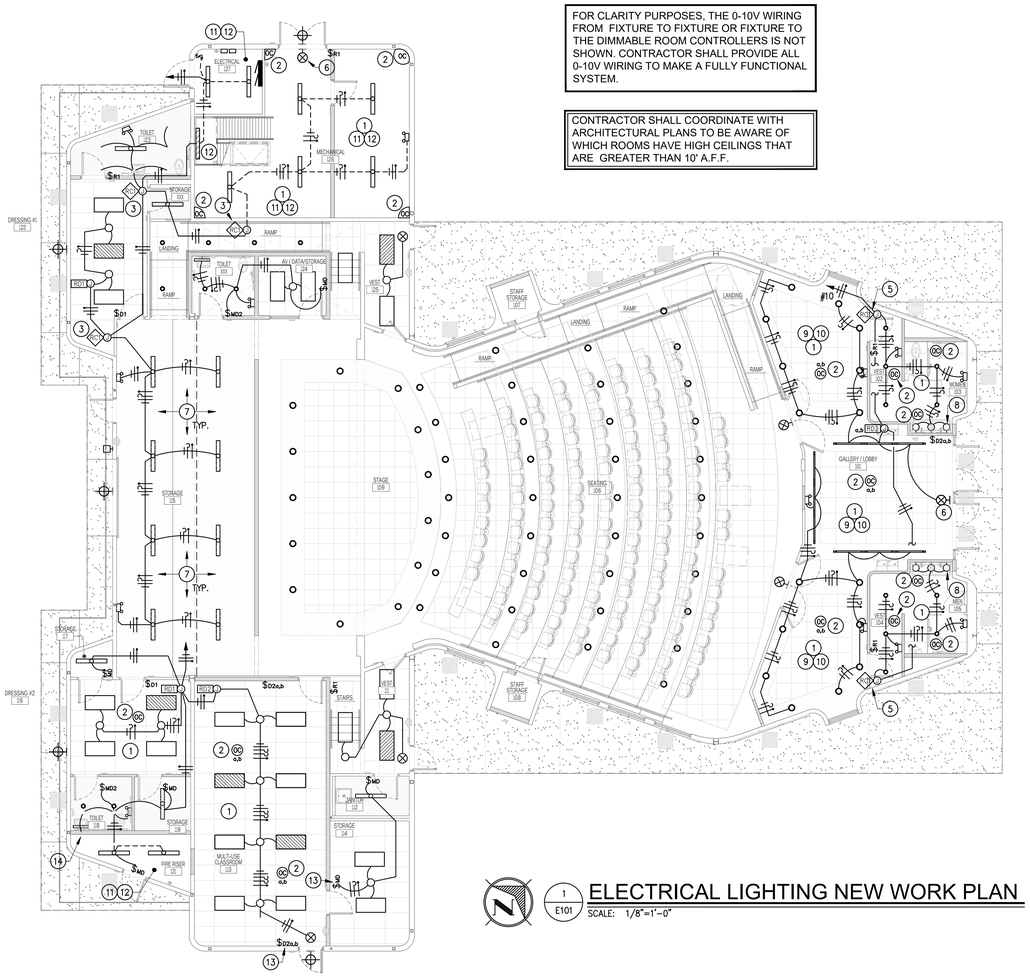
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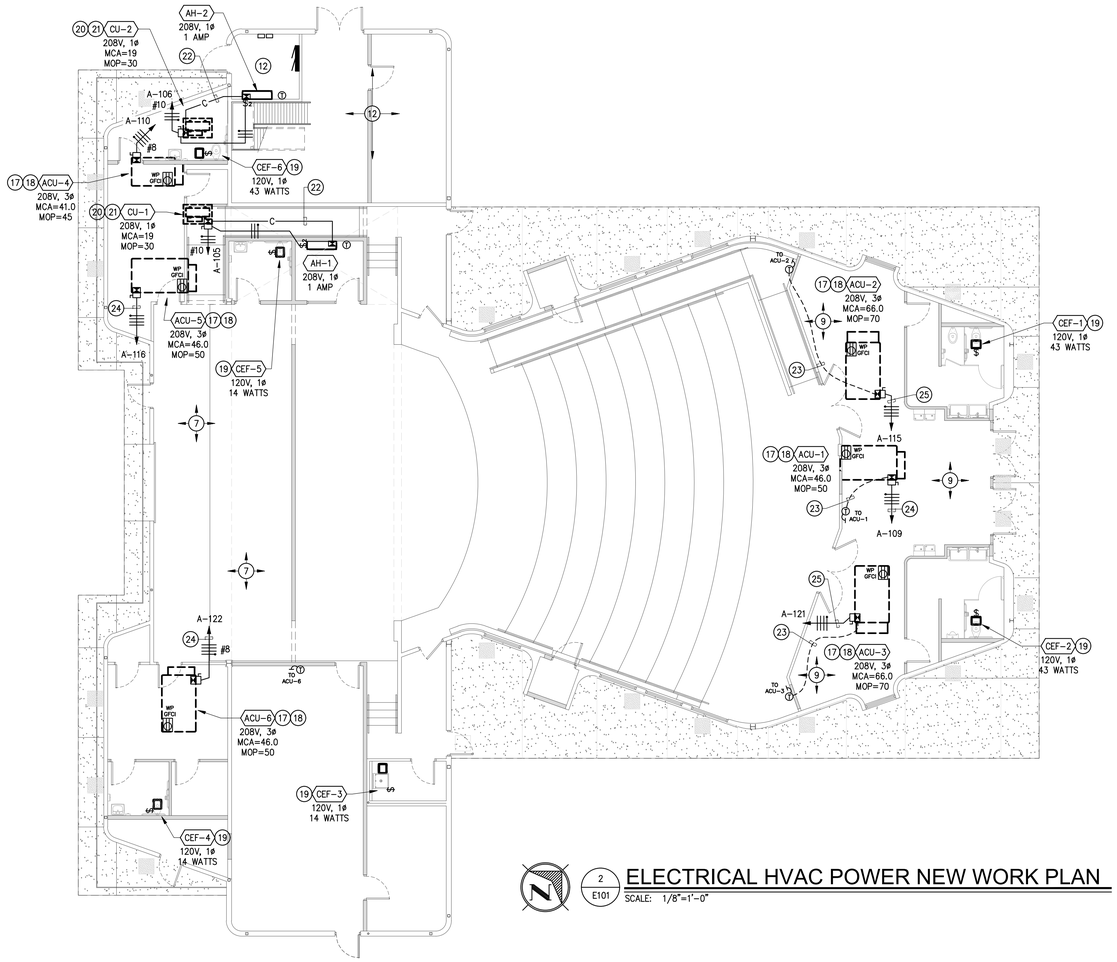
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FOR CLARITY PURPOSES, THE 0-10V WIRING FROM FIXTURE TO FIXTURE OR FIXTURE TO THE DIMMABLE ROOM CONTROLLERS IS NOT SHOWN. CONTRACTOR SHALL PROVIDE ALL 0-10V WIRING TO MAKE A FULLY FUNCTIONAL SYSTEM.

CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS TO BE AWARE OF WHICH ROOMS HAVE HIGH CEILINGS THAT ARE GREATER THAN 10' A.F.F.



1 E101 ELECTRICAL LIGHTING NEW WORK PLAN
SCALE: 1/8"=1'-0"



2 E101 ELECTRICAL HVAC POWER NEW WORK PLAN
SCALE: 1/8"=1'-0"

KEYED NOTES:

1. PROVIDE AND CONNECT DLM SENSOR DEVICES AS SHOWN AND EXPLAINED IN DETAILS 1/E101 AND 2/E101. PROVIDE LOW VOLTAGE WIRING AS REQUIRED FOR CONNECTIONS TO LIGHTING SHOWN. REFER TO THE SYMBOL LEGEND FOR TYPE OF WALL SWITCH(ES), SENSORS, AND CONTROLS REQUIRED FOR ROOM LAYOUT.
2. COORDINATE SENSOR DEVICE LOCATION WITH MANUFACTURER'S RECOMMENDATION PRIOR TO ROUGH-IN/INSTALLATION.
3. INSTALL ROOM CONTROLLER ABOVE AN ACCESSIBLE 10' CEILING AS SHOWN. LABEL CONTROLLER WITH ROOM NAME/NUMBER AND FIXTURES IT IS POWERING.
4. INSTALL FIXTURE 4" ABOVE CENTER OF SINK/MIRROR IN THIS LOCATION. 4" START FROM BOTTOM OF FIXTURE TO TOP OF MIRROR.
5. INSTALL ROOM CONTROLLER SHOWN, 1' ABOVE THE FLOATING CEILING SYSTEM IN THE VICINITY IN AN ACCESSIBLE AREA ON WALL AS SHOWN FOR CONCEALMENT. LABEL CONTROLLER WITH ROOM NAME/NUMBER AND FIXTURES IT IS POWERING.
6. INSTALL FIXTURE 6" ABOVE CENTER OF DOOR FRAME IN THIS LOCATION. 6" START FROM BOTTOM OF FIXTURE TO TOP OF DOOR FRAME.
7. GYPSUM CEILING IN THIS ROOM/AREA IS STEPPED FROM 12' TO 18' A.F.F., WHERE THE 12' CEILING IS CLOSEST TO THE PERIMETER WALL. ANY AND ALL CONDUIT SYSTEMS SHOWN ROUTED TO AND/OR NOTED CROSSING THRU THIS ROOM/AREA ARE TO BE SUPPORTED FROM THE STRUCTURE AND SURFACE MOUNTED TO THE GYPSUM CEILING. PAINT ALL EXPOSED CONDUIT SYSTEMS TO MATCH SURFACES THEY ARE MOUNTED TO. REFER TO THE ARCHITECTURAL PLANS FOR MORE INFORMATION.
8. INSTALL FIXTURES SHOWN EQUALLY SPACED BETWEEN SINK/MIRRORS AT THIS LOCATION. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.
9. ALL FIXTURE TYPES SHOWN TO BE LOCATED IN THIS ROOM/AREA ARE TO BE SUSPENDED BETWEEN THE ACOUSTICAL WOOD PLANK CEILING SYSTEM SCHEDULED. COORDINATE ALL FIXTURE SUSPENSION HEIGHTS WITH THE ARCHITECTURAL PLANS AND CEILING INSTALLER FOR A COHESIVE APPEARANCE PRIOR TO ROUGH-IN.
10. ANY AND ALL CONDUIT SYSTEMS SHOWN ROUTED TO AND/OR NOTED CROSSING THRU THIS ROOM/AREA ARE TO BE CONCEALED ABOVE THE SUSPENDED ACOUSTICAL CEILING SYSTEM AND SUPPORTED FROM THE STRUCTURE. NO EXPOSED CONDUIT SYSTEMS ROUTED UNDERNEATH THE CEILING SYSTEM WILL BE PERMITTED. PAINT ANY AND ALL CONDUIT SYSTEMS TO MATCH SURFACES THEY ARE MOUNTED TO. REFER TO THE ARCHITECTURAL PLANS FOR MORE INFORMATION.
11. SUSPEND FIXTURE(S) 10' A.F.F. IN THIS ROOM/AREA.
12. EXPOSED TO STRUCTURE IN THIS ROOM/AREA. ANY AND ALL CONDUIT SYSTEMS SHOWN ROUTED TO AND/OR NOTED CROSSING THRU THIS ROOM/AREA ARE TO BE SUPPORTED FROM THE STRUCTURE. PAINT ALL EXPOSED CONDUIT SYSTEMS TO MATCH SURFACES THEY ARE MOUNTED TO. REFER TO THE ARCHITECTURAL PLANS FOR MORE INFORMATION.
13. INSTALL NEW SWITCH SCHEDULED IN EXISTING ROUGH-IN MAINTAINED DURING DEMOLITION AT THIS LOCATION. CONNECT AS SHOWN/NOTED TO LIGHTING IN ROOM/AREA FOR CONTROL.
14. LOCATE LIGHTING TOUCH-PAD CONTROLLER IN THIS LOCATION. REFER TO THE LIGHTING CONTROL SCHEDULE FOR ZONING CONTROL.
15. THIS FIXTURE IS CONNECTED TO A CENTRAL INVERTER FOR EMERGENCY MODE, LOCATED IN THE ELECTRICAL ROOM. FIXTURE SHALL BE WIRED TO OPERATE AS NOTED AS OTHER TYPE "L" FIXTURES AND BE CONTROLLED AS NOTED ON THIS SHEET. REFER TO SHEET C.EE101A AND THE FIXTURE SCHEDULE FOR MORE DIRECTION.
16. ROUTE CIRCUIT SHOWN THRU PANEL NOTED ON HOMERUN AND THE DDC SYSTEM FOR THE BUILDING FOR POWER AND CONTROL. EACH SWITCH LEG SHOWN SHALL BE CONNECTED TO A DEDICATED CONTACTOR FOR INDIVIDUAL CONTROL AND ZONING ON THE DDC SYSTEM. REFER TO THE RESPECTIVE POWER RISER DIAGRAM FOR MORE INFORMATION. COORDINATE SCHEDULING WITH NMSU PRIOR TO COMPLETION OF THE PROJECT.
17. HVAC UNIT IS SCHEDULED TO BE PROVIDED WITH AN INTEGRAL DISCONNECT AND A GFCI CONVENIENCE OUTLET PER ARTICLE 210.63 OF THE NEC. POWER UNIT AS SHOWN TO PANEL NOTED ON HOMERUN. CONNECT OUTLET TO THE CLOSEST 120V, NON-SWITCHED CONVENIENCE OUTLET INSIDE THE BLDG. FOR POWER. PROVIDE ALL ELECTRICAL AND SPECIAL SYSTEM CONNECTIONS TO AND FROM UNIT AS REQUIRED PER THE MANUFACTURER'S RECOMMENDATION. REFER TO TYPICAL ACU POWER CONNECTION DETAIL FOR MORE DIRECTION.
18. HVAC UNIT IS SCHEDULED TO BE CONNECTED TO THE DDC SYSTEM FOR CONTROL. PROVIDE A 3/4"C STUBBED INTO RESPECTIVE UNIT TO AN ACCESSIBLE CEILING FOR CONTROLS CONTRACTOR TO ROUTE DDC CONTROL WIRING THRU. COORDINATE WORK WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. SEAL PENETRATIONS WITH WP SEALANT AS REQUIRED TO MAINTAIN THE ROOF WARRANTY.
19. CONNECT EF SCHEDULED TO LIGHTING CIRCUIT IN THE ROOM/AREA FOR POWER. CONNECT TO RESPECTIVE LIGHTING ROOM CONTROLLER FOR CONTROL. SCHEDULE EF TO TURN ON UPON OCCUPANCY AND TURN OFF, FIVE MINUTES AFTER DETECTION OF NO OCCUPANCY.
20. PROVIDE HVAC UNIT SHOWN WITH A NJR DISCONNECT, SIZED AS REQUIRED, FOR POWER. LOCATE DISCONNECT ON A VACANT SPACE ON UNIT THAT DOES NOT OBSTRUCT UNITS ACCESS PANELS, NAMEPLATE, AND/OR INTRUDE CLEARANCES REQUIRED PER THE NEC.
21. ROUTE POWER AND CONTROL CONDUITS SHOWN FROM HVAC UNIT SHOWN PARALLEL WITH REFRIGERANT LINES. FOLLOW SAME AREA OF ROOF PENETRATIONS AS REFRIGERANT LINES DOWN TO INDOOR UNIT. COORDINATE WORK WITH THE HVAC CONTRACTOR PRIOR TO ROUGH-IN. SEAL PENETRATIONS WITH WEATHERPROOF SEALANT AS REQUIRED TO MAINTAIN ROOF WARRANTY.
22. PROVIDE A 3/4"C WITH PULLTSTRING AS SHOWN FOR INTERCONNECTIONS REQUIRED FOR UNIT CONTROL WIRING TO BE ROUTED THRU.
23. PROVIDE A 1/2"C WITH PULLTSTRING AS SHOWN FOR INTERCONNECTIONS REQUIRED FOR UNIT CONTROL WIRING TO BE ROUTED THRU.
24. PROVIDE A 1"C WITH (3)-#6 CU. WIRE AND (1)-#8G.
25. PROVIDE A 1 1/4"C WITH (3)-#4 CU. WIRE AND (1)-#8G.

GENERAL NOTES:

A. REFER TO THE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL INTERIOR AND EXTERIOR BUILDING LIGHTING SHOWN. COORDINATION WITH G.C. IS MANDATORY FOR ALL BLDG. LIGHTING. SURFACE MOUNT LIGHT J-BOXES AND/OR EXPOSED CONDUIT WILL NOT BE PERMITTED U.N.O.

B. ALL EMERGENCY FIXTURES SCHEDULED ON THIS PLAN ARE TO BE PROVIDED WITH AN INTEGRAL BATTERY PACK FOR EMERGENCY POWER U.N.O. CONTRACTOR SHALL PROVIDE A CONTINUOUS HOT FOR PROPER FIXTURE OPERATION.

C. CONTRACTOR SHALL PROVIDE ROUGH-IN BOXES AND 1/2"C STUBBED TO AN ACCESSIBLE CEILING FOR ALL T-STATS/REMOTE TEST STATIONS SHOWN AND NOTED ON THIS SHEET AND THE MECHANICAL PLANS. IF EXPOSED TO STRUCTURE, CONTRACTOR SHALL ROUTE CONDUIT TO AN ACCESSIBLE CEILING AND/OR WALL, WHICHEVER COMES FIRST. CONDUITS SHALL NOT BE EXPOSED WHERE CAN BE CONCEALED. REFER TO THE MECHANICAL PLANS FOR LOCATIONS PRIOR TO ANY ROUGH-IN.

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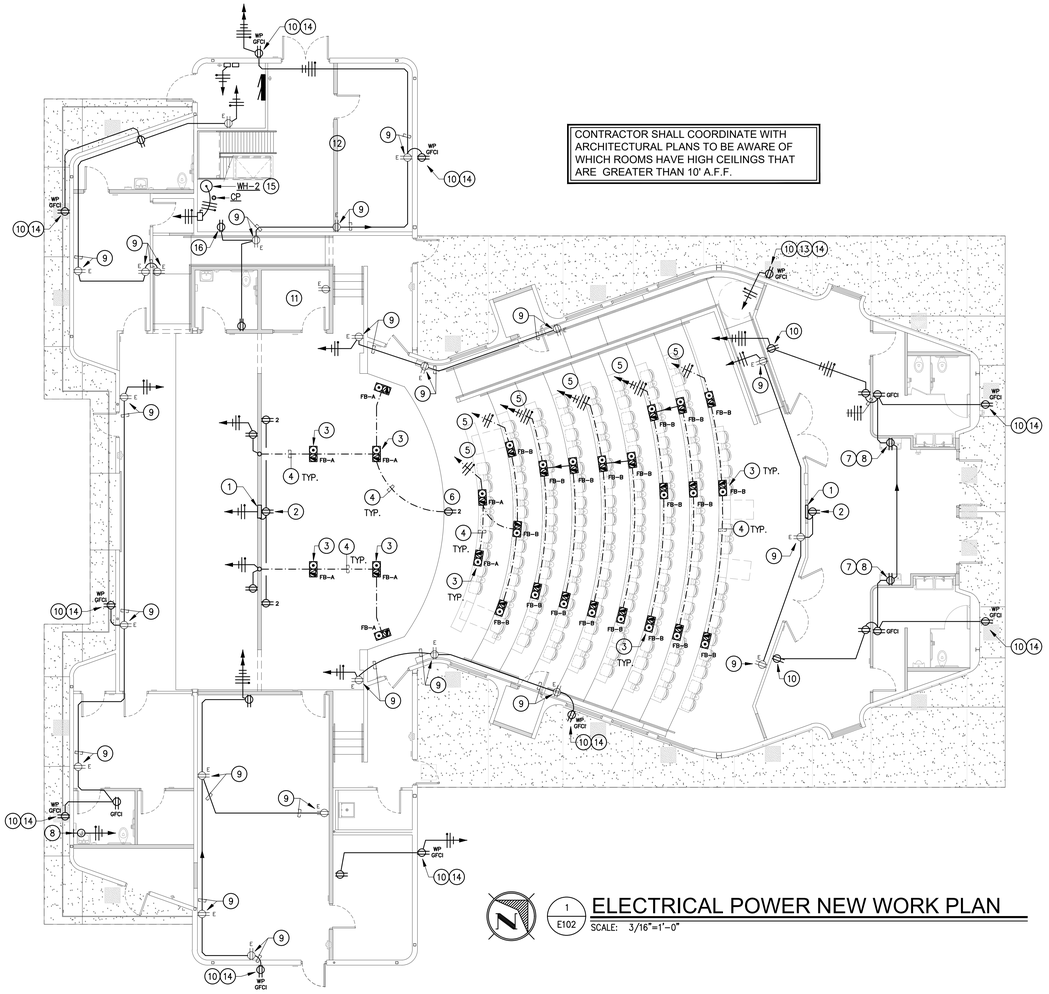
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Project No: NMSU2023-01

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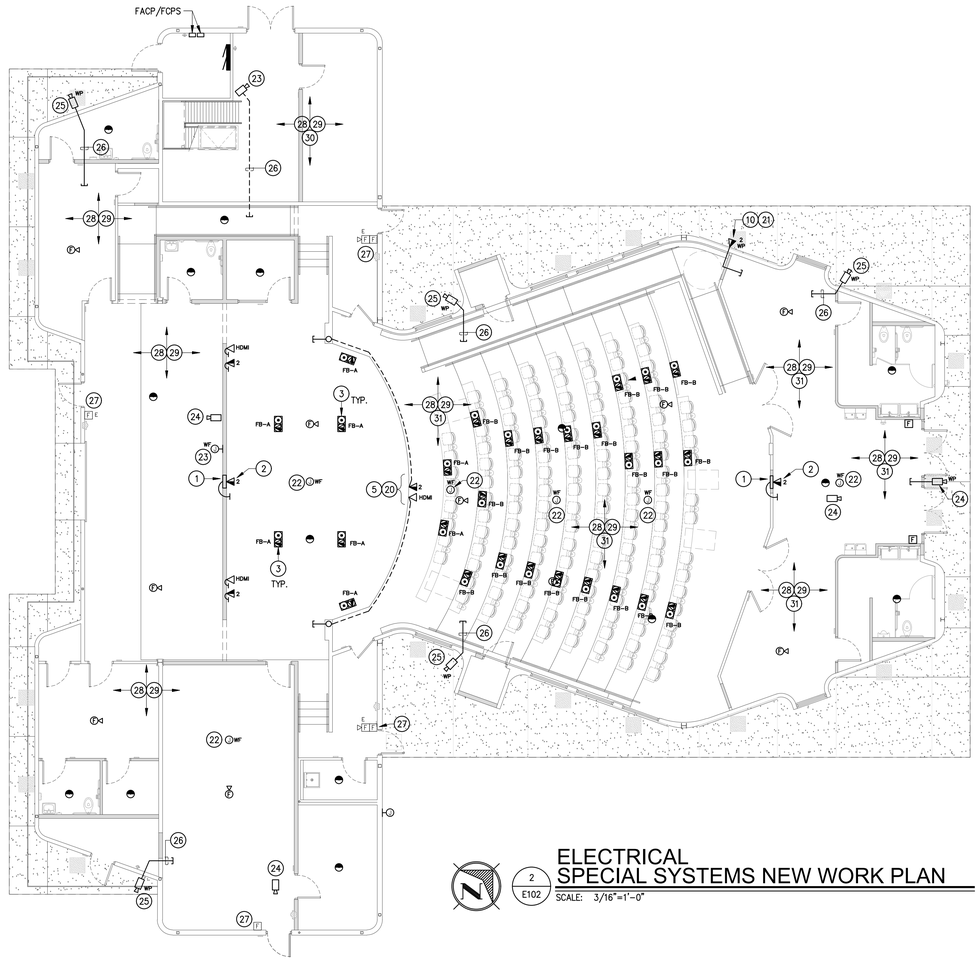
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1 E102 ELECTRICAL POWER NEW WORK PLAN

SCALE: 3/16"=1'-0"



2 E102 ELECTRICAL SPECIAL SYSTEMS NEW WORK PLAN

SCALE: 3/16"=1'-0"

KEYED NOTES:

1. PROVIDE AND INSTALL AN IN-WALL OUTLET BOX COMPLETE WITH A WHITE TRIM PLATE AND COVER (CHIEF CAT. PAC525 OR EQUAL) AT THIS LOCATION. OUTLET BOX SHALL INCLUDE THE FOLLOWING ITEMS.
   CONDUIT SYSTEMS:
   (1) 3/4"C FOR OUTLET BRANCH CIRCUIT WIRING
   (1) 1"C FOR CAT6 DATA CABLING
   (1) 1-1/4"C FOR HDMI CABLING
   WIRING DEVICES:
   (2) 120V, 20A DUPLEX RECEPTACLES
   (1) DUAL PORT DATA OUTLET WITH (2)-CAT6 CABLES,
   (1) SINGLE PORT HDMI OUTLET WITH (1)-HDMI CABLE

   PROVIDE ALL FACEPLATES, JACKS, FEMALE HDMI CONNECTORS, AND OTHER ASSOCIATED ACCESSORIES FOR A COMPLETE INSTALLATION. MOUNT BOX FLUSH IN WALL AND LOCATE BEHIND MONITOR. CONDUIT SYSTEMS SHALL BE PROVIDED WITH PLASTIC BUSHINGS AT EACH END AND STUBBED ABOVE AN ACCESSIBLE CEILING OR AS NOTED/SHOWN ON THE PLANS. FIELD VERIFY ROUGH-IN LOCATION WITH THE OWNER AND MONITOR PRIOR TO ANY ROUGH-IN.
2. INSTALL OUTLET SHOWN BELOW CENTER OF INTERACTIVE MONITOR LOCATION. COORDINATE LOCATION PRIOR TO ROUGH-IN.
3. PROVIDE FLOOR BOX AS SCHEDULED AT THIS LOCATION. REFER TO THE FLOOR BOX SCHEDULE ON THIS SHEET FOR TYPE AND INSTALLATION REQUIRED. VERIFY LOCATION WITH THE ARCHITECTURAL PLANS AND FINAL FURNITURE LAYOUT PRIOR TO ROUGH-IN.
4. SAWCUT EXISTING CONCRETE SLAB AS SHOWN TO ROUTE NEW CONDUIT FROM FLOOR BOX TO WALL FOR WIRING AND CABLING TO BE ROUTED THRU. SAWCUT, PATCH, AND REPAIR SLAB AS REQUIRED TO MATCH PRE-CONSTRUCTION CONDITIONS. COORDINATE WITH THE ARCHITECTURAL PLANS PRIOR TO ANY WORK.
5. ROUTE CIRCUITS/CONDUITS SHOWN TO NEAREST FULL HEIGHT FURRED OUT WALL FOR CONCEAL. EXPOSED CONDUITS WILL NOT BE PERMITTED.
6. INSTALL OUTLET AND ASSOCIATED CONDUIT ON THE UNDERSIDE OF STAGE LIP AT THIS LOCATION FOR CONCEALMENT. CONNECT AS SHOWN TO FLOOR BOX NOTED. EXPOSED CONDUITS WILL NOT BE PERMITTED PASSED THE STAGE LIP. REFER TO THE ARCHITECTURAL PLANS FOR MORE DIRECTION.
7. CONNECT OUTLET TO BE GFCI PROTECTED AS REQUIRED PER THE NEC. CONNECT TO THE CLOSEST GFCI OUTLET ON THE SAME CIRCUIT SHOWN FOR PROTECTION.
8. LOCATE OUTLET BEHIND ELECTRIC WATER COOLER BOTTOM SKIRT FOR CONCEALMENT. COORDINATE INSTALLATION AND MOUNTING HEIGHT WITH ELECTRIC WATER COOLER SPECIFICATIONS PRIOR TO ROUGH-IN. NO EXPOSED POWER CONNECTIONS WILL BE PERMITTED.
9. PROVIDE NEW OUTLET SHOWN IN EXISTING OUTLET ROUGH-IN BOX MAINTAINED DURING DEMOLITION AT THIS LOCATION. CONNECT NEW OUTLET AS SHOWN FOR POWER.
10. PROVIDE NEW OUTLET SHOWN AT THIS LOCATION. CONNECT AS SHOWN/NOTED FOR POWER. RECESS OUTLET ROUGH-IN BOX AND ASSOCIATED CONDUIT IN EXISTING SHEET ROCK WALL AS NEEDED. NO SURFACE MOUNT BOXES AND/OR RACEWAYS WILL BE PERMITTED.
11. A/V RACK AND CONSOLE LOCATION. REFER TO THE ENLARGED A/V POWER PLAN FOR MORE DIRECTION.
12. IT RACK AND CONSOLE LOCATION. REFER TO THE ENLARGED A/V POWER PLAN FOR MORE DIRECTION.
13. PROVIDE OUTLET AND CIRCUIT SHOWN, UP HIGH, FOR AMAZON LOCKER EQUIPMENT AT THIS LOCATION. COORDINATE WITH THE OWNER AND ARCHITECTURAL PLANS FOR MOUNTING HEIGHT AND LOCATION PRIOR TO ANY ROUGH-IN.
14. PROVIDE A WEATHER RESISTANT (WR), GFCI OUTLET HOUSED IN AN OUTDOOR RATED, SHALLOW ENCLOSURE WITH A SMALL, IN-USE COVER, LABELED "EXTRA-DUTY", AS REQUIRED BY ARTICLE 406.9(B)(1) & (2) OF THE NEC. THE IN-USE "EXTRA-DUTY" COVER SHALL BE METAL OR NON-METALLIC AS REQUIRED BY LOCAL CODE. CONNECT AS SHOWN FOR POWER.
15. PROVIDE DISCONNECT AN CIRCUIT SHOWN TO POWER ELECTRIC WATER HEATER AT THIS LOCATION. SIZE DISCONNECT AS REQUIRED PER THE WATER NAMEPLATE RATING. COORDINATE LOCATION AND MOUNTING HEIGHT WITH INSTALLER AND NEC REQUIREMENTS FOR CLEARANCES PRIOR TO ROUGH-IN.
16. PROVIDE OUTLET AND CIRCUIT SHOWN TO POWER ELECTRIC WATER HEATER CIRC. PUMP AND CONTROLS. COORDINATE LOCATION AND MOUNTING HEIGHT WITH INSTALLER PRIOR TO ROUGH-IN.
17. OUTLET DESIGNATED FOR IT RACK. PROVIDE PROPER NEMA CONFIGURATION OUTLET REQUIRED FOR IT RACK POWER. VERIFY AND COORDINATE TYPE, LOCATION, AND MOUNTING HEIGHT WITH NMSU'S IT DEPARTMENT PRIOR TO ROUGH-IN.
18. OUTLET DESIGNATED FOR IT RACK UPS. PROVIDE PROPER NEMA CONFIGURATION OUTLET REQUIRED FOR IT RACK UPS POWER. VERIFY AND COORDINATE TYPE, LOCATION, AND MOUNTING HEIGHT WITH NMSU'S IT DEPARTMENT PRIOR TO ROUGH-IN.
19. OUTLETS SHOWN ARE TO BE MOUNTED ON THE IT FLOOR MOUNTED RACK POSTS. CONDUIT SYSTEMS SHALL COME FROM THE CEILING. PROPERLY SECURE CONDUIT TO IT RACK POSTS AND MOUNT OUTLETS 5' A.F.F. VERIFY AND COORDINATE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH NMSU'S IT DEPARTMENT PRIOR TO ROUGH-IN.
20. INSTALL OUTLET AND ASSOCIATED CONDUIT ON THE UNDERSIDE OF STAGE LIP AT THIS LOCATION FOR CONCEALMENT. EXPOSED CONDUITS WILL NOT BE PERMITTED PASSED THE STAGE LIP. REFER TO THE ARCHITECTURAL PLANS FOR MORE DIRECTION.
21. PROVIDE OUTLET SHOWN, UP HIGH, FOR AMAZON LOCKER EQUIPMENT AT THIS LOCATION. COORDINATE WITH THE OWNER AND ARCHITECTURAL PLANS FOR MOUNTING HEIGHT AND LOCATION PRIOR TO ANY ROUGH-IN.
22. PROPOSED LOCATION FOR CEILING MOUNTED WIRELESS ACCESS POINT DEVICE. PROVIDE INFRASTRUCTURE, CEILING MOUNTING BRACKET, AND CABLING AS NOTED IN THE SYMBOL LEGEND. DEVICE AND END TO END CONNECTIONS ARE TO BE PROVIDED AND INSTALLED BY NMSU'S IT DEPT. COORDINATE ROUGH-IN LOCATION WITH NMSU'S IT DEPT. PRIOR TO ANY WORK. REFER TO THE DEVICE CEILING SUPPORT DETAIL FOR MORE DIRECTION.
23. PROPOSED LOCATION FOR WALL MOUNTED WIRELESS ACCESS POINT DEVICE. PROVIDE INFRASTRUCTURE, WALL MOUNTING BRACKET, AND CABLING AS NOTED IN THE SYMBOL LEGEND. DEVICE AND END TO END CONNECTIONS ARE TO BE PROVIDED AND INSTALLED BY NMSU'S IT DEPT. COORDINATE ROUGH-IN LOCATION WITH NMSU'S IT DEPT. PRIOR TO ANY WORK.
24. PROPOSED LOCATION FOR CEILING MOUNTED CAMERA. PROVIDE INFRASTRUCTURE, CEILING MOUNTING BRACKET, AND CABLING AS NOTED IN THE SYMBOL LEGEND. DEVICE AND END TO END CONNECTIONS ARE TO BE PROVIDED AND INSTALLED BY NMSU'S IT DEPT. COORDINATE ROUGH-IN LOCATION WITH NMSU'S IT DEPT. PRIOR TO ANY WORK. REFER TO THE DEVICE CEILING SUPPORT DETAIL FOR MORE DIRECTION.
25. PROPOSED LOCATION FOR WALL MOUNTED, WP CAMERA. PROVIDE INFRASTRUCTURE, CEILING MOUNTING BRACKET, AND CABLING AS NOTED IN THE SYMBOL LEGEND. DEVICE AND END TO END CONNECTIONS ARE TO BE PROVIDED AND INSTALLED BY NMSU'S IT DEPT. COORDINATE ROUGH-IN LOCATION WITH NMSU'S IT DEPT. PRIOR TO ANY WORK. REFER TO THE DEVICE CEILING SUPPORT DETAIL FOR MORE DIRECTION.
26. PROVIDE A 1"C WITH FULL LENGTH PULLSTRING.
27. PROVIDE NEW FA DEVICE(S) SHOWN IN EXISTING ROUGH-IN BOX MAINTAINED DURING DEMOLITION AT THIS LOCATION. CONNECT NEW FA DEVICE(S) TO NEW FACP/FCPS FOR THE BUILDING.
28. ALL SPECIAL SYSTEM WIRING/CABLING (DATA, PHONE, HDMI, WF, AND CAMERA) TO BE PROVIDED AS PART OF THIS PROJECT SHALL BE ROUTED AND CONNECTED TO THE RESPECTIVE PATCH PANELS AND IT RACK IN THE MDF FOR THE BUILDING.
29. ALL A/V WIRING/CABLING TO BE PROVIDED AS PART OF THIS PROJECT SHALL BE ROUTED AND CONNECTED TO THE RESPECTIVE PATCH PANELS, CONSOLE, AND A/V RACK IN THE A/V RM. FOR THE BUILDING.
30. EXPOSED TO STRUCTURE IN THIS ROOM/AREA. ANY AND ALL CONDUIT SYSTEMS SHOWN ROUTED TO AND/OR NOTED CROSSING THRU THIS ROOM/AREA ARE TO BE SUPPORTED FROM THE STRUCTURE. PAINT ALL EXPOSED CONDUIT SYSTEMS TO MATCH SURFACES THEY ARE MOUNTED TO. REFER TO THE ARCHITECTURAL PLANS FOR MORE INFORMATION.
31. ANY AND ALL CONDUIT SYSTEMS SHOWN ROUTED TO AND/OR NOTED CROSSING THRU THIS ROOM/AREA ARE TO BE CONCEALED ABOVE THE SUSPENDED ACOUSTICAL CEILING SYSTEM AND SUPPORTED FROM THE STRUCTURE. NO EXPOSED CONDUIT SYSTEMS ROUTED UNDERNEATH THE CEILING SYSTEM WILL BE PERMITTED. PAINT ANY AND ALL CONDUIT SYSTEMS TO MATCH SURFACES THEY ARE MOUNTED TO. REFER TO THE ARCHITECTURAL PLANS FOR MORE INFORMATION.

GENERAL NOTES:

A. COORDINATE ALL POWER AND DATA/PHONE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH FINAL FURNITURE EQUIPMENT LAYOUT AND ARCHITECTURAL PLANS. VERIFY LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ANY ROUGH-IN.

B. ALL DATA/PHONE OUTLETS SHOWN OR NOTED TO BE PROVIDED SHALL BE INSTALLED ADJACENT TO POWER OUTLETS WHERE APPLICABLE. REFER TO DATA/OUTLET BOX DETAIL FOR DETAILS AND MORE INFORMATION.

C. ALL DEVICES AND/OR ROUGH-IN SHOWN AND/OR NOTED TO BE MOUNTED FLUSH WITH AN ACCESSIBLE CEILING SHALL BE INSTALLED PER THE DEVICE CEILING SUPPORT DETAIL ON THE ELECTRICAL PLANS. REFER TO THE DETAIL FOR MORE INFORMATION AND INSTALLATION.

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75% CONSTRUCTION DOCUMENTS

PROGRESS SET 02/11/2025

ROHOVEC BUILDING REMODEL
NEW MEXICO STATE UNIVERSITY - ALAMOGORDO CAMPUS

Date: 02/11/2025	Scale: AS SHOWN
Drawn by: RBM	Checked by: RBM

Revisions:

Title: ELECTRICAL POWER AND SPECIAL SYSTEMS NEW WORK PLANS

Project No. NMSU2023-01

E102

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