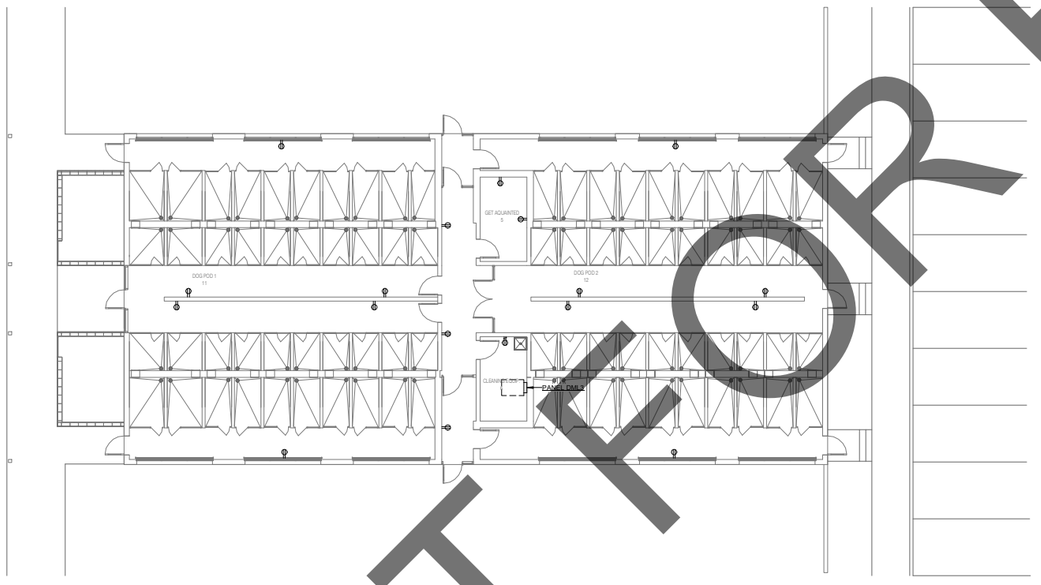

1 **ADOPTION DOG BUILDING 3 POWER FLOOR PLAN**
1/8" = 1'-0"

MILLER
architecture
interiors
planning

"Shelter Planners of America"

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REGISTERED ARCHITECT
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No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

REF. SCALE IN INCHES

PROJECT #22007989.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

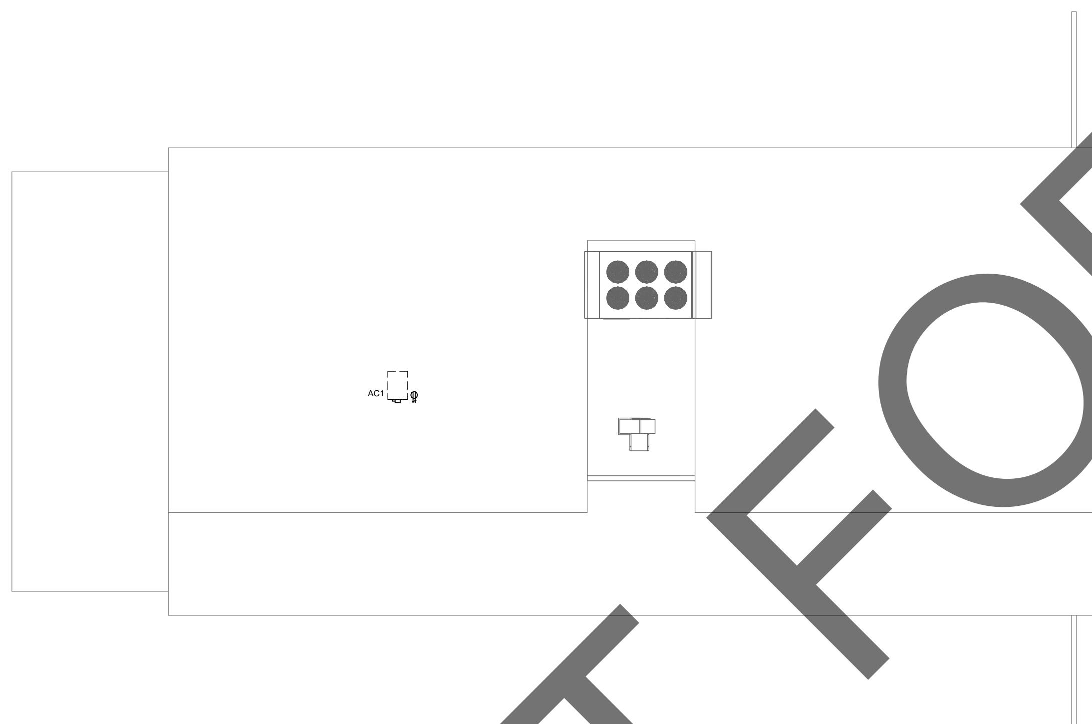
sheet name

ADOPTION DOG BUILDING 3 POWER FLOOR PLAN

sheet number

EG-201

Sheet Of Sheets



1 ADOPTION DOG BUILDING 3 POWER ROOF PLAN

1/8" = 1'-0"

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LICENSED ARCHITECT
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initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

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ADOPTION DOG BUILDING 3 POWER ROOF PLAN

sheet number

EG-202

Sheet Of Sheets

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REF. SCALE IN INCHES
PROJECT #22007569.00

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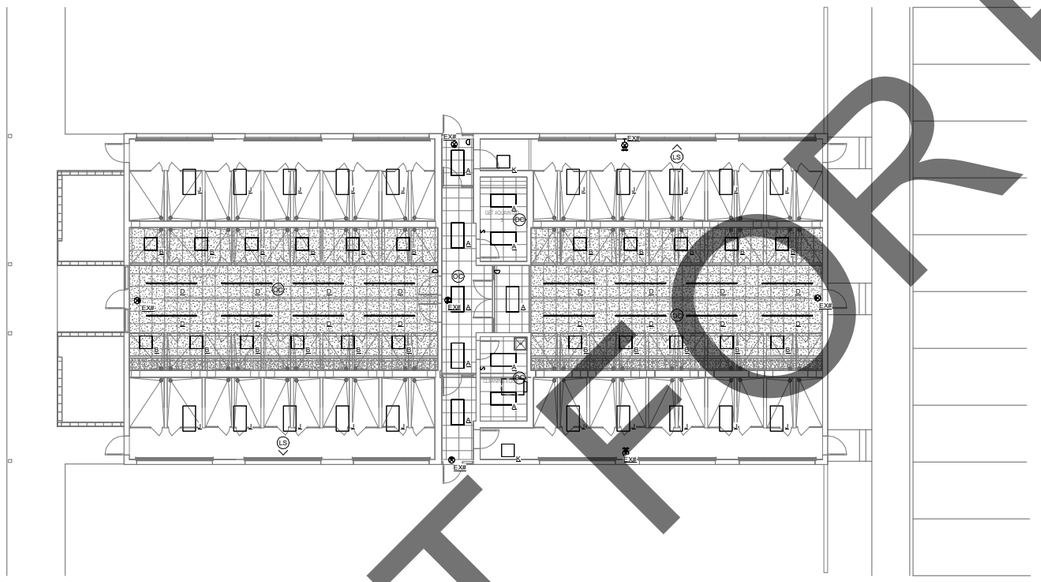

1 **STRAY DOG BUILDING LIGHTING FLOOR PLAN**
1/8" = 1'-0"

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owner approval

initials	date	phase

revisions/addenda

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PROJECT #22307969.00

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SAN BERNARDINO COUNTY

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sheet name

STRAY DOG BUILDING LIGHTING FLOOR PLAN

sheet number

EH-101

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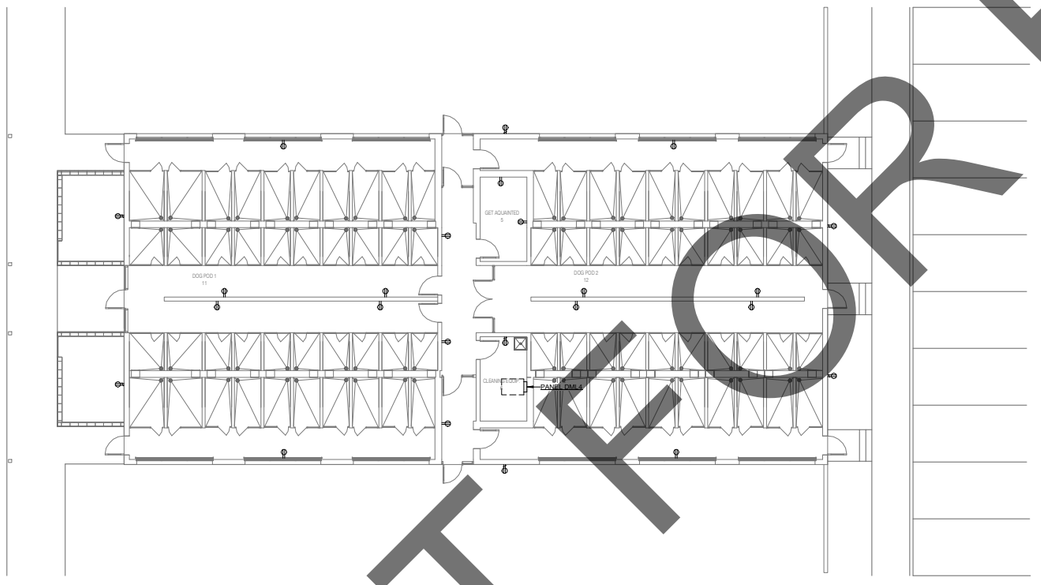

1 **STRAY DOG BUILDING POWER FLOOR PLAN**
1/8" = 1'-0"

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initials	date	phase

revisions/addenda

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PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
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project information

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STRAY DOG BUILDING POWER FLOOR PLAN

sheet number

EH-201

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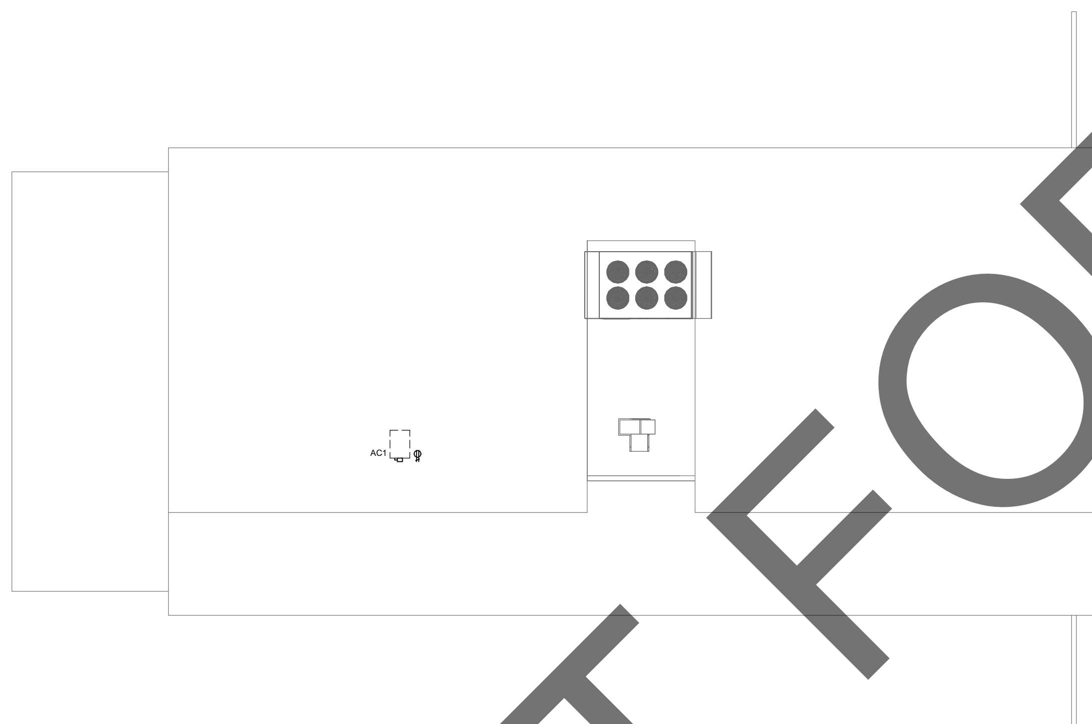

1 STRAY DOG BUILDING POWER ROOF PLAN

1/8" = 1'-0"

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REN. 9-30-21
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: MB
Issue Date: 06/01/23

sheet name

STRAY DOG BUILDING POWER ROOF PLAN

sheet number

EH-202

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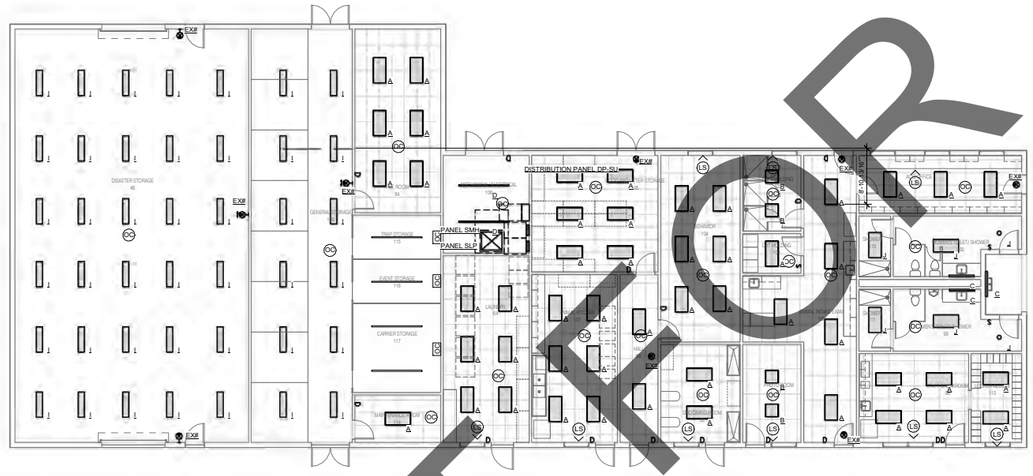

1 **SUPPORT BUILDING LIGHTING FLOOR PLAN**
1/8" = 1'-0"

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REGISTERED ARCHITECT
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REN. 9-30-23
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name
SUPPORT BUILDING LIGHTING FLOOR PLAN

sheet number
EI-101

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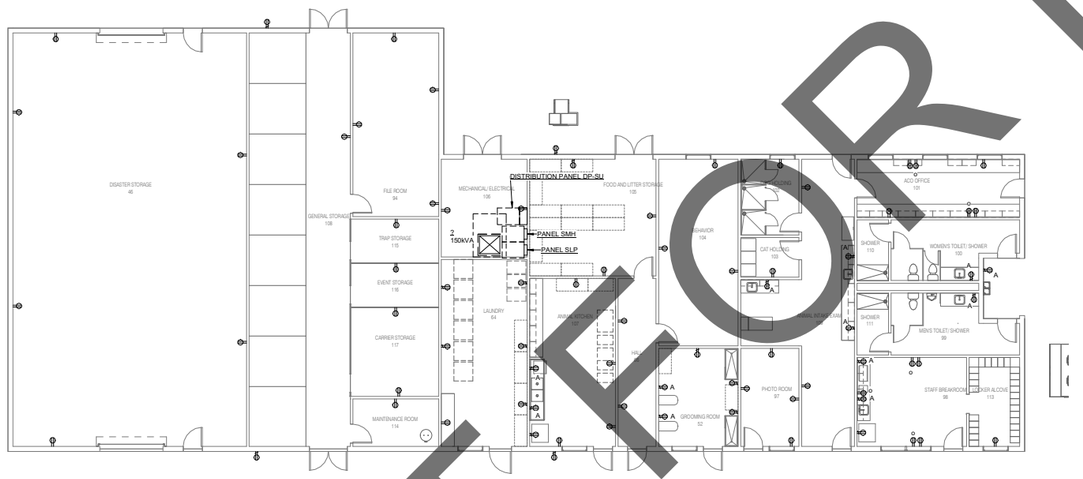

1 SUPPORT BUILDING POWER FLOOR PLAN
1/8" = 1'-0"

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REGISTERED ARCHITECT
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REN. 9-30-2-2024
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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REF. SCALE IN INCHES PROJECT #2230789.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

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Checked By:	MB
Issue Date:	06/01/23

sheet name

SUPPORT BUILDING POWER FLOOR PLAN

sheet number

EI-201

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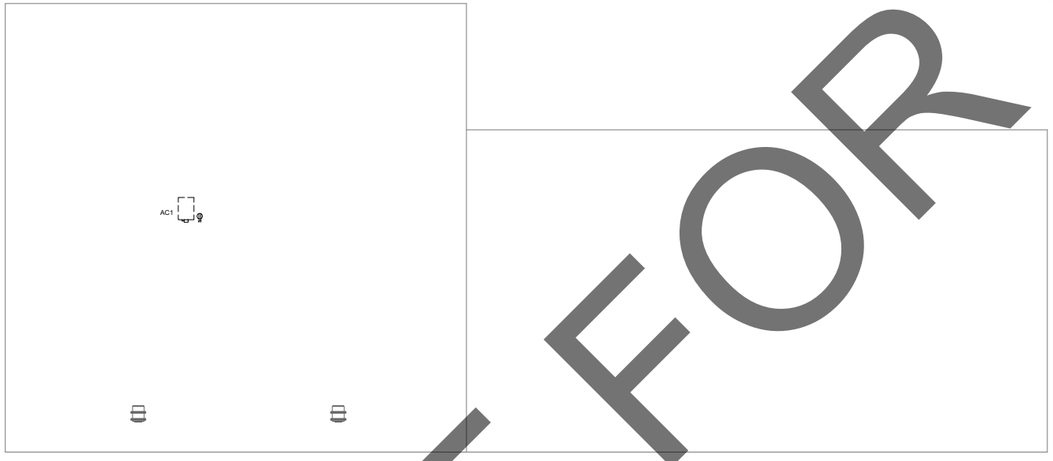

1 **SUPPORT BUILDING POWER ROOF PLAN**
1/8" = 1'-0"

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REGISTERED ARCHITECT
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initials	date	phase

revisions/addenda

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REF. SCALE IN INCHES

PROJECT #22057569.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
16313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

SUPPORT BUILDING POWER ROOF PLAN

sheet number

EI-202

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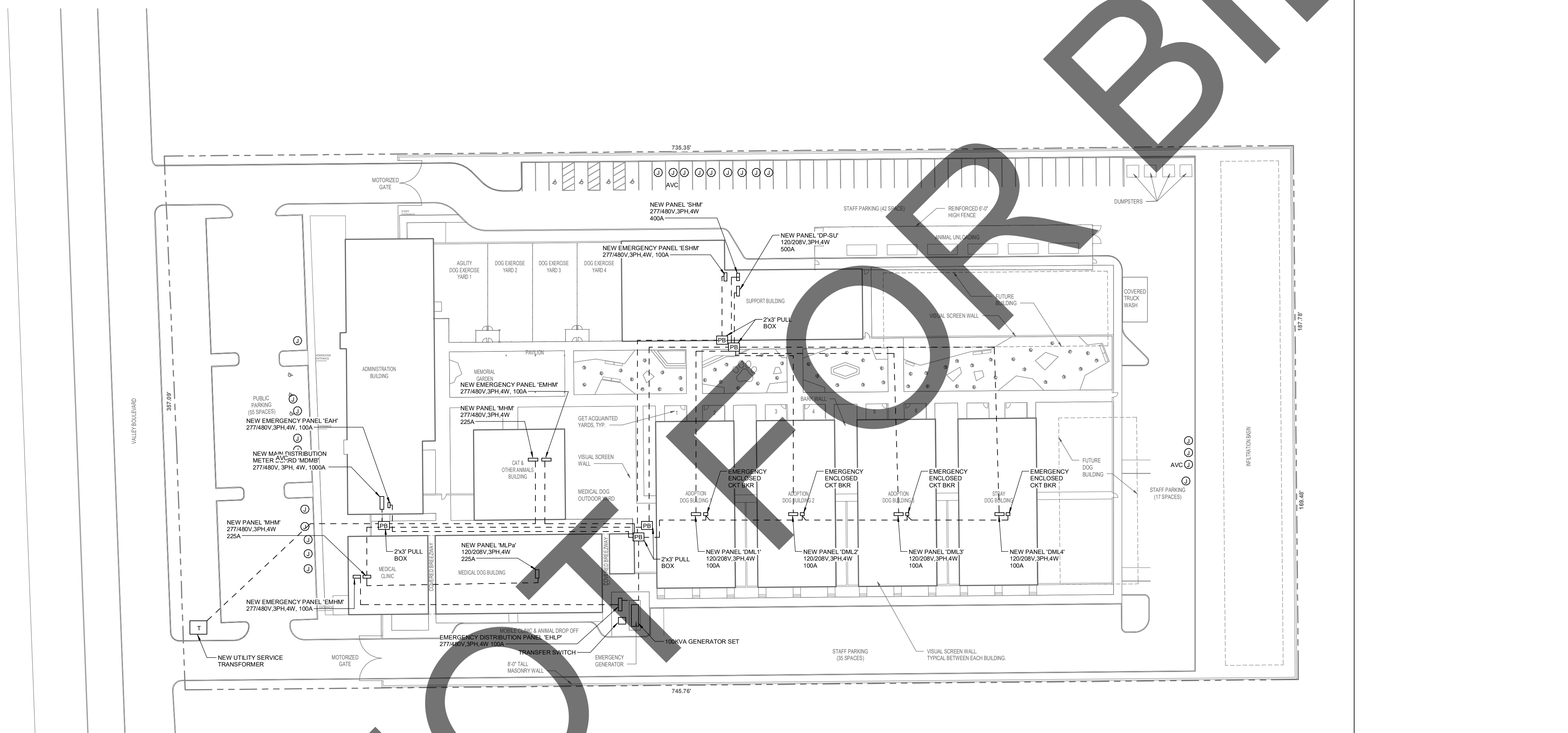

1 POWER SITE PLAN
1" = 30'-0"

NORTH

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REN. 9-30-21
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

POWER SITE PLAN

PRELIMINARY NOT FOR CONSTRUCTION

sheet number

ES-101

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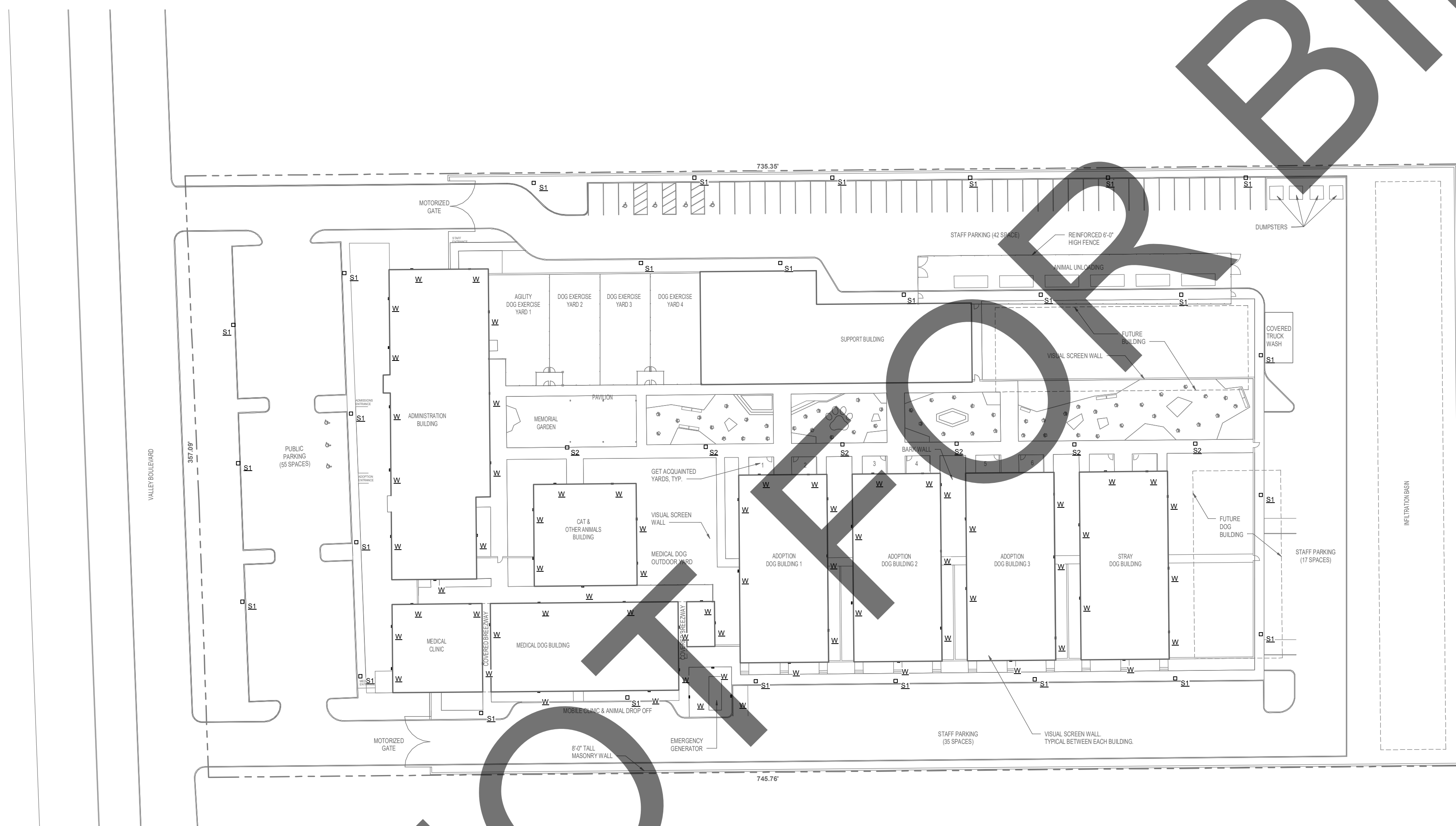

1 **LIGHTING SITE PLAN**
1" = 30'-0"

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

LIGHTING SITE PLAN

sheet number

ES-102

Sheet Of Sheets

PRELIMINARY NOT FOR CONSTRUCTION

FIRE ALARM NOTES

1. THIS IS A COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER 2016 CFC 907.2.3 AND 2016 CSC 907.2.3.
2. THE NEW FIRE ALARM SYSTEM EXTENSION IS CONFIGURED TO A FULLY AUTOMATIC SYSTEM.
3. THE FIRE ALARM SYSTEM INDICATED ON THESE DRAWINGS IS APPROVED BY CALIFORNIA STATE FIRE MARSHAL AND SHALL BE INSTALLED AS DESCRIBED ON THESE DRAWINGS AND AS NOTED IN THE SPECIFICATIONS. ANY CHANGES TO THESE PLANS. I.E., DELETION, RELOCATION OR ADDING OF DEVICES SHALL BE RESUBMITTED TO THE STATE FIRE MARSHAL FOR APPROVAL.

   INSTALLATION OF FIRE ALARM SYSTEM MAY START AFTER IMEG RECEIVES THESE APPROVED DRAWINGS. A.O.R. SHALL STAMP AND SIGN ALL DRAWINGS.
4. ALL WIRING AND INITIATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (F/A PANEL TO SUPERVISE ALL CIRCUITS AND INITIATING DEVICES).
5. WIRING SHALL NOT BE LOOPED THROUGH DEVICES: WIRE MUST BE CUT FOR IN AND FOR OUT.
6. ALL WIRING TO BE IN CONDUIT.
7. ALL TERMINATIONS IN JUNCTION BOXES. PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS. DO NOT USE WIRE NUTS FOR SPLICING. DO NOT SPLICE WIRES IN ANY BOXES.
8. ALL CONDUIT SIZES INDICATED IN DRAWINGS ARE MINIMUM. CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS BUT SHALL NOT BE SMALLER THAN 3/4 INCH.
9. ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
10. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
11. CONDUIT AND JUNCTION/BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
12. THE SYSTEM SHALL CONFORM TO TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
13. UPON COMPLETION OF SYSTEM INSTALLATION. THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF, AND IN A MANNER ACCEPTABLE TO, THE ENFORCING AGENCY.
14. THE CONTRACTOR SHALL REPROGRAM AND CERTIFY ADDRESSABLE FIRE ALARM CONTROL PANEL TO ACCOMMODATE ADDITIONAL DEVICES.
15. FIRE ALARM SYSTEM SHALL BE INSTALLED BY FACTORY AUTHORIZED REPRESENTATIVE.
16. CONDUCTOR LENGTHS AND DEVICE QUANTITIES ARE SHOWN SOLELY FOR CALCULATION PURPOSES ONLY, AND SHALL NOT BE USED FOR BID TAKE-OFF.
17. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS. INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA-ORS. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
18. PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TEST ASSEMBLY ACCEPTABLE TO CBC 1705A.17.1 PROVISIONS AND DSA-ORS.
19. ALL FIRE ALARM AND COMMUNICATIONS WIRES AND CABLES SHALL BE ONE CONTINUOUS LENGTH FROM A BUILDING TERMINAL CABINET TO ANOTHER BUILDING TERMINAL CABINET OR JUNCTION BOX. ABSOLUTELY NO SUBGRADE SPLICES WILL BE PERMITTED! PROVIDE TERMINAL BLOCKS WITH MOUNTING IN TERMINAL CABINETS ONLY AS REQUIRED.
20. EVERY ALARM SIGNALING DEVICE INSTALLED SHALL BE OF THE SAME BASIC TYPE (BELLS, HORNS, CHIMES, SPEAKERS, ETC.) AS ALL OTHER SIGNALING DEVICES IN THE FACILITY, (EXCEPTION: ANY SIGNALING DEVICES REQUIRED FOR THE DEAF OR HEARING IMPAIRED PER 2016 NFPA-72.
21. INSULATED CONDUCTORS USED IN WET LOCATIONS SHALL BE (1) LEAD-COVERED, (2) TYPES RHW,TW, THW.114W, THWN, XHHW: OR (3) OF A TYPE LISTED FOR USE IN WET LOCATIONS. CABLES OF ONE OR MORE CONDUCTORS USED IN WET LOCATIONS SHALL BE OF A TYPE LISTED FOR USE IN WET LOCATIONS. CONDUCTORS USED FOR DIRECT BURIAL APPLICATIONS SHALL BE OF A TYPE LISTED FOR SUCH USE (PER 2016 CEC ARTICLE 310).
22. THE FIRE ALARM DEVICE SUPPLIER SHALL FURNISH ALL SURFACE MOUNT ENCLOSURES FOR PULLSTATIONS AND SKIRTS FOR ALL VISUAL AND AUDIO VISUAL DEVICES TO CONCEAL 4S BACK BOXES.
23. AFTER THE SYSTEM IS COMPLETED, ALL ADDRESSABLE DEVICES SHALL BE PROGRAMMED AT THE FACP ACCORDING TO THE ACTUAL BUILDING ROOM NUMBER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE SCHOOL DISTRICT TO OBTAIN ACCURATE ROOM NUMBER INFORMATION.
24. PROVIDE CALIFORNIA TEMPORAL-THREE TONE DISTINCTIVE FIRE ALARM SOUND. (2016 CFC SEC. 907.6.2.1.3 & 2016 NFPA 72 SEC. 18.4.2.1)
25. POWER SERVICES SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING & LOCKING DEVICE AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
26. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS (2016 NFPA 72 SEC. 18.4.3.1) (i.e. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS45dBA PLUS 15dBA EQUAL = 60dBA MINIMUM ALARM TONE REQUIRED)
27. STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2016 NFPA 72 SEC. 18.5.3.1)
28. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (1OR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
29. FIRE ALARM CONTRACTOR SHALL PROVIDE A 'RECORD OF COMPLETION' TO THE INSPECTOR OF RECORD (10RyDSA AFTER COMPLETION OF OPERATION ACCEPTANCE TEST. (2016 NFPA 72 SEC. 7.5.6. & 2013 CFC 901.6.2)
30. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
31. THE INSTALLING CONTRACTOR SHALL PROVIDE A STATEMENT OF COMPLIANCE ALONG WITH THE REQUEST FOR ACCEPTANCE TESTING PER 2016 NFPA-72.
32. OCCUPANCY OF THE BUILDINGS IS PROHIBITED UNTIL THE FIRE ALARM SYSTEM IS COMPLETED, TESTED, AND APPROVED PER 2016 NFPA 72.
33. SMOKE DETECTORS SHALL BE TESTED PER THE METHOD SHOWN IN 2016 CFC.
34. REACCEPTANCE TESTING SHALL BE PERFORMED AS REQUIRED BY 2016 NFPA 72.
35. ALL BACKUP BATTERIES FOR FIRE ALARM SYSTEM EQUIPMENT SHALL BE VISUALLY CHECKED FOR DATE OF INSTALLATION. ALL BATTERIES OVER 5 YEARS OLD SHALL BE REPLACED WITH NEW BATTERIES OF THE SAME MANUFACTURER, TYPE. AND AMP-HOUR RATING.
36. FIRE ALARM SYSTEMS SHALL BE SUPERVISED BY AN APPROVED UL LISTED CENTRAL STATION, OR REMOTE STATION (UUFX) MONITORING COMPANY (UUJS) (CFC, 907.2.3.5, 907.6.5.3.)
37. A SINGLE FAULT ON A PATHWAY CONNECTED TO THE ADDRESSABLE DEVICES SHALL NOT CAUSE THE LOSS IN MORE THAN ONE ZONE (2016 NFPA 72 SECTION 23.6.1)
38. THE DISTRICT SHALL RETAIN RECORD DRAWINGS ON THE PREMISES FOR A MINIMUM OF 3 YEARS, IN A DEDICATED FIRE ALARM RECORD DOCUMENT CABINET IN ACCORDANCE WITH NFPA 72. 7.7.2.
    - EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET. INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
    - THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED. 'SYSTEM RECORD DOCUMENTS'.
    - ALL RECORED AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
    - CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
    - WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT. ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

    SYSTEM DOCUMENTS AS APPLICABLE:
    - RECORD DRAWINGSIAS-BUILTS
    - EQUIPMENT CUT SHEETS & CA SFM LISTINGS
    - ALTERNATIVE MEANS AND METHODS
    - PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72. 7.3.7)
    - SYSTEM RECORED OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72. 7.8.2)
    - EMERGENCY RESPONSE PLAN (NFPA 72.7.3.8)
    - EVALUATION DOCUMENTATION (NFPA 72. 7.3.9)
    - SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72. 23.2.2)
39. EXTRA DEVICES

    DUE TO UNFORESEEN CONDITION. THE FOLLOWING EXTRA DEVICES SHALL BE INCLUDED IN THE CONTRACTORS BID:
    - a. SMOKE DETECTORS — 5 EACH
    - b. HEAT DETECTORS — 5 EACH
    - c. ATTIC HEAT DETECTORS — 5 EACH
    - d. SPEAKER/STROBE — 2 EACH
    - e. STROBE — 2 EACH
    - f. EXTERIOR SPEAKER — 1 EACH

    FOR BID PURPOSES. ALLOW TWENTY (20) FEET OF CONDUIT AND ITS SUPPORT SYSTEM TO INCLUDE FITTINGS. WIRES AND LABOR FOR EACH OF THE DEVICES LISTED ABOVE.
40. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS ACCEPTED BY THE SCHOOL DISTRICT. OTHERWISE 24-HOURS FIRE WATCH SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR FOR CFC SECTION 901.4.

FIRE ALARM SYMBOL LIST

SYMBOL:	MAF.	MODEL NO.	DESCRIPTION:	CSFM LISTING NO.
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING WG = WIRE GUARD IS REQUIRED WP = WEATHERPROOF D = HVAC CONTROL # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER	
	GAMEWELL	E3	FIRE ALARM CONTROL PANEL	7165-1703:0125
	GAMEWELL	NGA	FIRE ALARM ANNUNCIATOR	7165-1703:0125
	GAMEWELL		DIGITIZED VOICE COMMAND CENTER	
	GAMEWELL		GRAPHICAL ANNUNCIATOR PANEL, FIRE ALARM	
	GAMEWELL		NOTIFICATION APPLIANCE CIRCUIT PANEL	
	GAMEWELL	HPF24S6	REMOTE POWER SUPPLY, FIRE ALARM	7300-1703:0167
	GAMEWELL		FIRE ALARM TERMINAL CABINET	
S #	GAMEWELL	ASD-PL3 MCS-COF	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT BLANK - PHOTOELECTRIC BR = BEAM RECEIVER BT = BEAM TRANSMITTER CO = COMBINATION SMOKE / CARBON MONOXIDE SA = STAND ALONE WITH SOUNDER SB = SOUNDER BASE	7272-1703:0501 7275-1703:0175
#	GAMEWELL	MCS-COF	GAS DETECTION, CEILING OR WALL MOUNT CO = CARBON MONOXIDE	7275-1703:0175
F #	SYSTEM SENSOR	SSM24-10	ELECTRIC BELL FOR SPRINKLER SYSTEM	7135-1653:0217
S #	SYSTEM SENSOR	SPSRL SPSCR SPRK-P	AUDIO (SPEAKER) ALARM DEVICE, CEILING OR WALL MOUNTED COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER	7320-1653:0505 7320-1653:0201
FS	SYSTEM SENSOR	WFD SERIES	FIRE ALARM FLOW SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS KB = KNOX BOX	7770-1653:0231
TS	SYSTEM SENSOR	OSY2	FIRE ALARM TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS PIV = POST INDICATOR VALVE	7770-1653:0118
CM	SYSTEM SENSOR	AOM-2SF	FIRE ALARM ADDRESSABLE CONTROL MODULE BLANK = REFER TO PLANS LC = LIGHTING CONTROL OVERRIDE DH = DOOR HOLD OPEN PD = HOLD OPEN OVERRIDE	7300-1703:0102
R	SYSTEM SENSOR	AOM-2RF	FIRE ALARM RELAY MODULE	7300-1703:0102
EOL			FIRE ALARM END OF LINE DEVICE, DRAWINGS ONLY	

SEQUENCE OF OPERATION

	BUILDING POWER FAILURE	AREA SMOKE DETECTOR	ATTIC SMOKE DETECTOR	TAMPER SWITCH	FLOW SWITCH	OPEN SHORT OR GROUND	BEAM DETECTOR	CO DETECTOR
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM)	NO	YES	YES	NO	YES	YES	YES	NO
ANNUNCIATE AT FIRE CONTROL PANEL (SUPERVISION)	NO	NO	NO	YES	NO	NO	NO	YES
ANNUNCIATE AT FIRE CONTROL PANEL (TROUBLE)	YES	NO	NO	NO	NO	NO	NO	NO
SOUND CONTROL PANEL TROUBLE BUZZER	NO	YES	YES	NO	YES	YES	YES	NO
ACTIVATE AUDIBLE ALARM SIGNALS (UNTIL SILENCE)	NO	YES	YES	NO	YES	NO	YES	NO
ACTIVATE VISUAL ALARM SIGNALS (UNTIL RESET)	NO	YES	YES	NO	YES	NO	YES	NO
ACTIVATE EMERGENCY VOICE SYSTEM SIGNALS (UNTIL RESET)	NO	YES	YES	NO	NO	NO	YES	NO
REPORT TO CENTRAL STATION	NO	YES	YES	NO	YES	NO	YES	NO
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (ALARM)	NO	YES	YES	NO	YES	YES	YES	NO
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (SUPERVISION)	NO	NO	NO	YES	NO	NO	NO	YES
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (TROUBLE)	YES	NO	NO	NO	NO	NO	NO	NO
ACTIVATE SPRINKLER BELL	NO	NO	NO	NO	YES	NO	NO	NO
SOUND LOCAL ALARM	NO	NO	NO	NO	NO	NO	NO	YES

FIRE ALARM WIRE DESIGNATION CHART

SYMBOL	DESCRIPTION	NUMBER OF CONDUCTORS	SIZE	TYPE
N	NOTIFICATION APPLIANCE CIRCUIT	TWO	#12	THHN/THWN
S	VOICE EVACUATION CIRCUIT - ABOVE GRADE	TWISTED PAIR	#14	WEST PENN #0990
D	SIGNALING LINE CIRCUIT (SLC) - ABOVE GRADE	TWISTED PAIR	#14	WEST PENN #AQC225
DD	SIGNALING LINE CIRCUIT (SLC) - BELOW GRADE	TWISTED PAIR	#14	WEST PENN #0991
SS	VOICE EVACUATION CIRCUIT - BELOW GRADE	AQUA SEAL TWISTED SHIELDED PAIR	#16	WEST PENN #AQC224
P	24 POWER	TWISTED SHIELDED PAIR	#16	THHN/THWN

NOTES:

1. SYMBOL INDICATES QTY & I.D. OF CIRCUIT. I.E. 2N2, INDICATES (2) 2#12 CI CABLE FOR N CIRCUIT.
2. ALL CONDUIT USED FOR FIRE ALARM SHALL BE 3/4" MINIMUM ABOVE GRADE AND 1" MINIMUM BELOW GRADE UNLESS NOTED OTHERWISE.
3. ALL WIRING USED IN UNDERGROUND CONDUITS SHALL BE LISTED FOR WET AREA APPLICATION, IN ACCORDANCE WITH CEC 760.

APPLICABLE CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE (IBC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2020 NATIONAL ELECTRICAL CODE (NEC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODES OF REGULATIONS (CCR) TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE (IFC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN),
CALIFORNIA CODES OF REGULATIONS (CCR) TITLE 24, PART 11

2022 CALIFORNIA REFERENCED STANDARDS CODE
CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESIBILITY STANDARDS

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80

EQUIPMENT ANCHORAGE NOTES:

EQUIPMENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP [x] MD [x] PP [ ] E [ ] — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP [ ] MD [ ] PP [ ] E [ ] — OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_______.

MP [ ] MD [ ] PP [ ] E [ ] — OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SESIMIC HAZARD LEVEL____ AND CONNECTION LEVEL ____ FOR THE PROJECT AND CONDITIONS

FIRE ALARM DEFERRED APPROVAL NOTES:

THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES, FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

(1) — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

NORTH — INDICATES DIRECTION OF TRUE NORTH
1 — PLAN OR DETAIL NUMBER
VIEW NAME — PLAN OR DETAIL NAME
1/8" = 1'-0" — PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 — DETAIL REFERRED TO BY SECTION CUT
M101 / T101 — SHEET DETAIL IS LOCATED ON

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

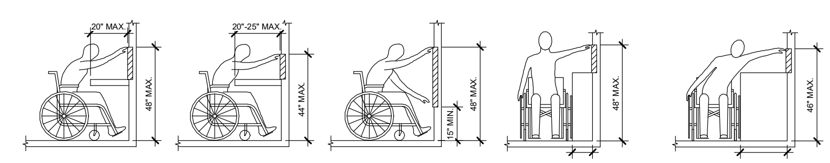
TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

FIRE ALARM SHEET INDEX



INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR. | INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR. | INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR. | INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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REF. SCALE IN INCHES — PROJECT #22007569.00

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

Project Number: 1227
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Checked By: MB
Issue Date: 06/01/23

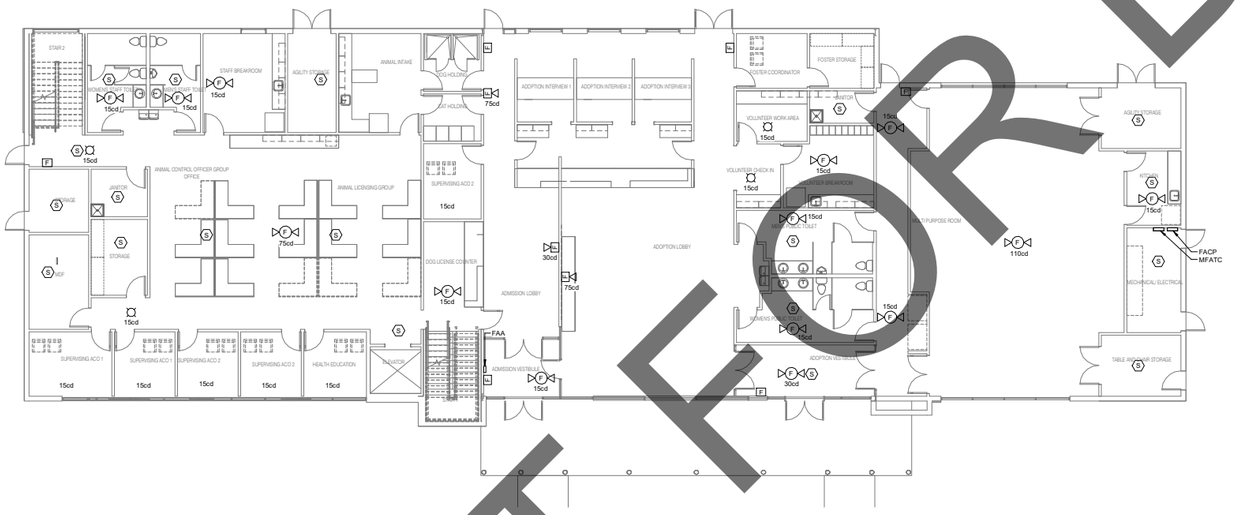
sheet name

FIRE ALARM COVERSHEET

sheet number

FA-100

Sheet Of Sheets



1 **ADMINISTRATION BUILDING FIRE ALARM FIRST FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES. FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES: (#)

REF. SCALE IN INCHES PROJECT #22007989.00

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initials	date	phase

revisions/addenda

#	Date	Comment

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project information

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ADMINISTRATION BUILDING FIRE ALARM FIRST FLOOR PLAN

sheet number
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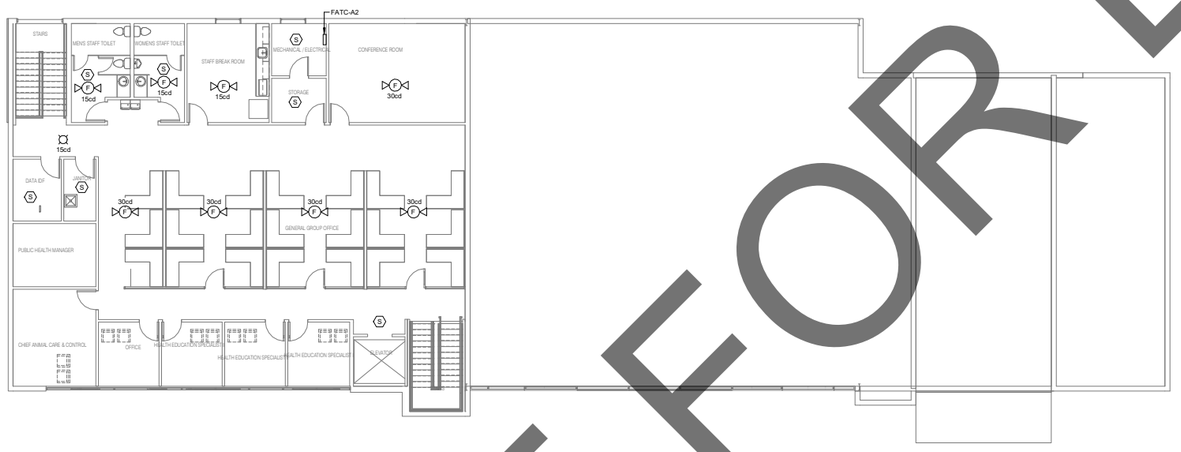

NORTH 1 **ADMINISTRATION BUILDING FIRE ALARM SECOND FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES. FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES: (#)

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initials	date	phase

revisions/addenda

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SAN BERNARDINO COUNTY

project information

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ADMINISTRATION BUILDING FIRE ALARM SECOND FLOOR PLAN

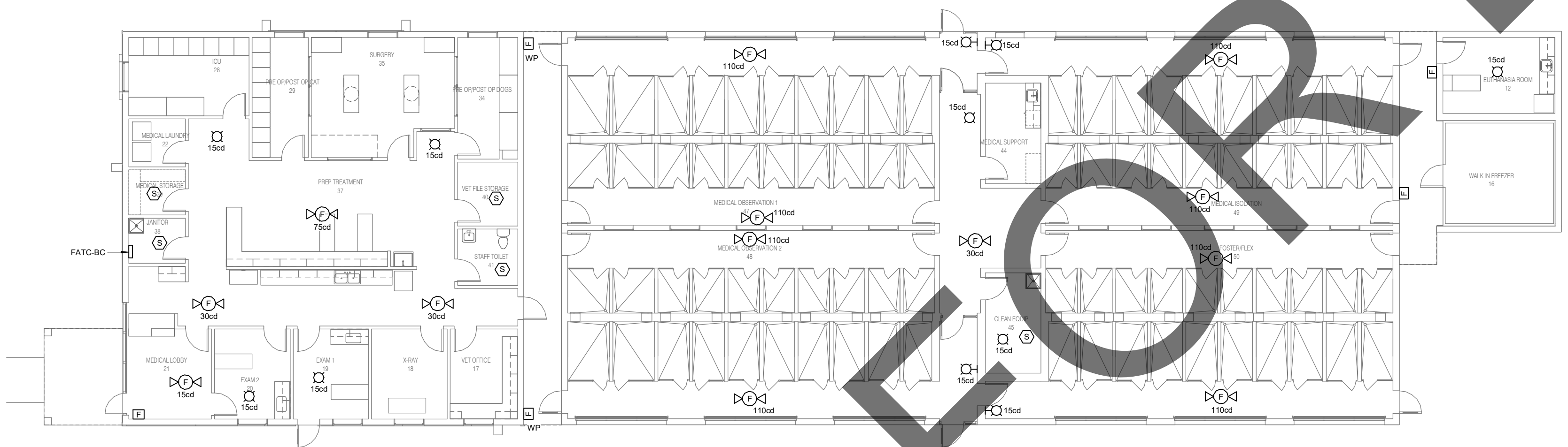
sheet number
FAA-102

Sheet Of Sheets

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES, FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES:



1 **MEDICAL CLINICFIRE ALARM FLOOR PLAN**
1/8" = 1'-0"

NOT FOR BID

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initials	date	phase

revisions/addenda

#	Date	Comment

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project information

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sheet name

MEDICAL CLINICFIRE ALARM FLOOR PLAN

sheet number

FABC-201

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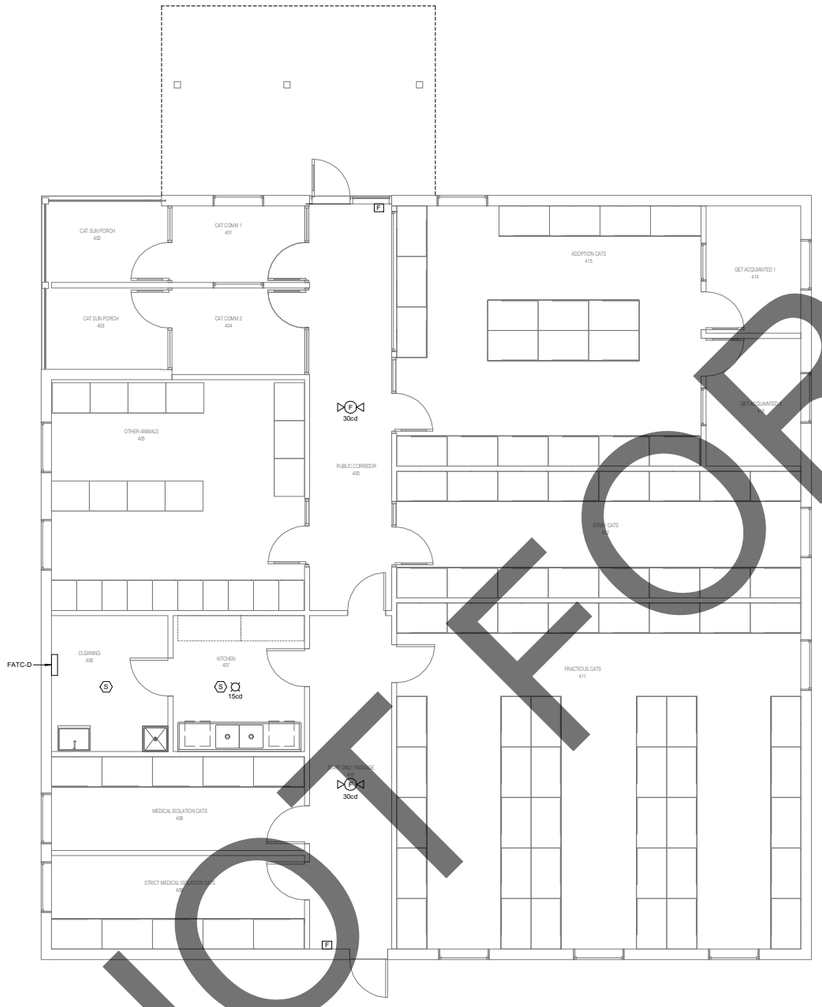

1 **CAT & OTHER ANIMALS BUILDINGFIRE ALARM FLOOR PLAN**
1/4" = 1'-0"

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM. SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES. FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES: (#)

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initials	date	phase

revisions/addenda

#	Date	Comment

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PROJECT #22307969.00

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SAN BERNARDINO COUNTY

project information

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Checked By:	MB
Issue Date:	06/01/23

sheet name
CAT & OTHER ANIMALS BUILDINGFIRE ALARM FLOOR PLAN

sheet number
FAD-201

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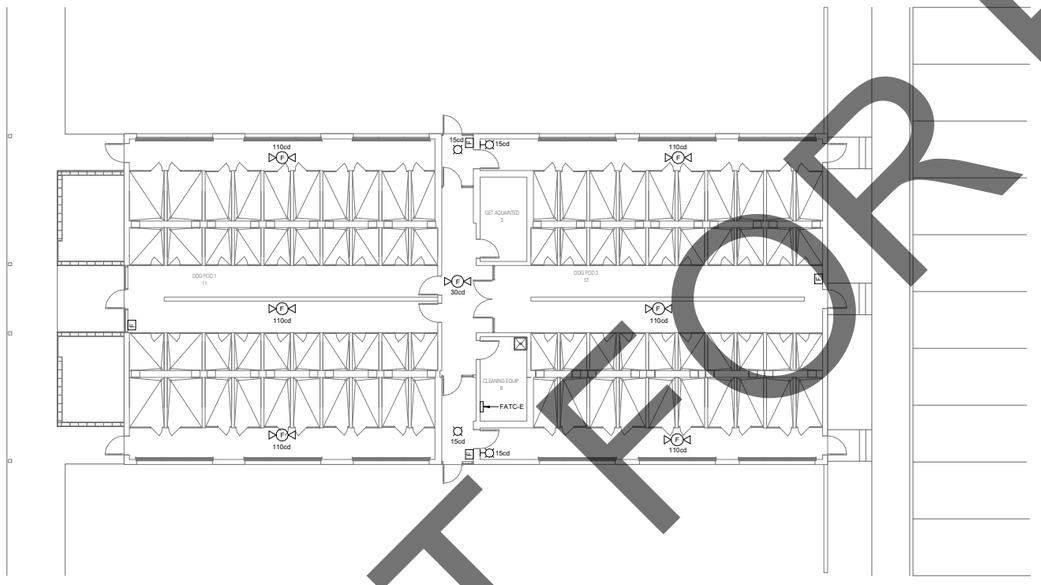

1 **ADOPTION DOG BUILDING 1FIRE ALARM FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES. FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

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REGISTERED ARCHITECT
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No. C14635
RENEW: 9-30-2
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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REF. SCALE IN INCHES PROJECT #22007989.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

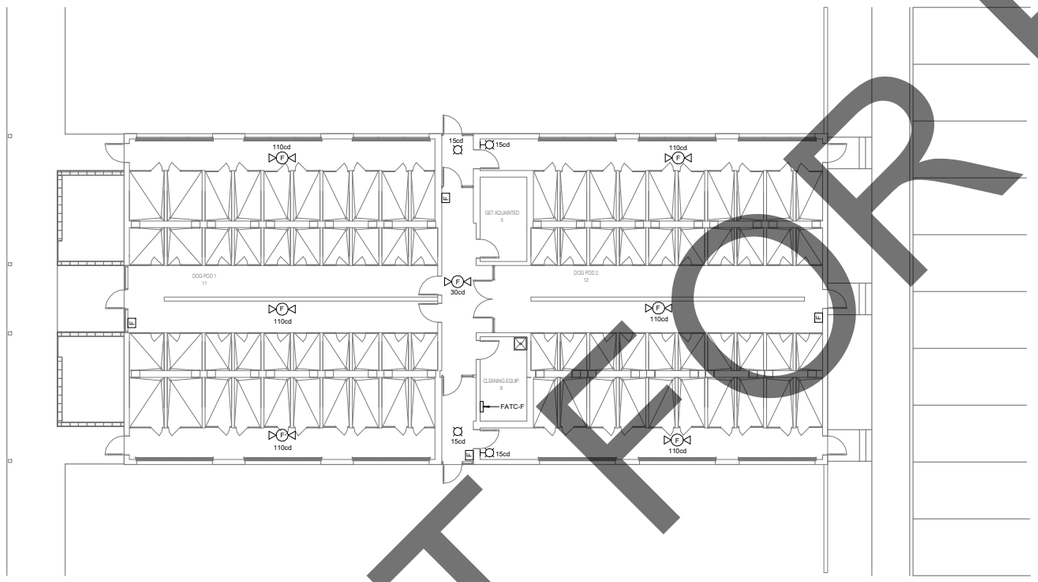
sheet name

ADOPTION DOG BUILDING 1FIRE ALARM FLOOR PLAN

sheet number

FAE-201

Sheet Of Sheets



1 **ADOPTION DOG BUILDING 2FIRE ALARM FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES. FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES: (#)

MILLER
architecture
interiors
planning

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REF. SCALE IN INCHES

PROJECT #22307569.00

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SAN BERNARDINO COUNTY

project information

Project Number:	1227
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Issue Date:	06/01/23

sheet name
ADOPTION DOG BUILDING 2FIRE ALARM FLOOR PLAN

sheet number
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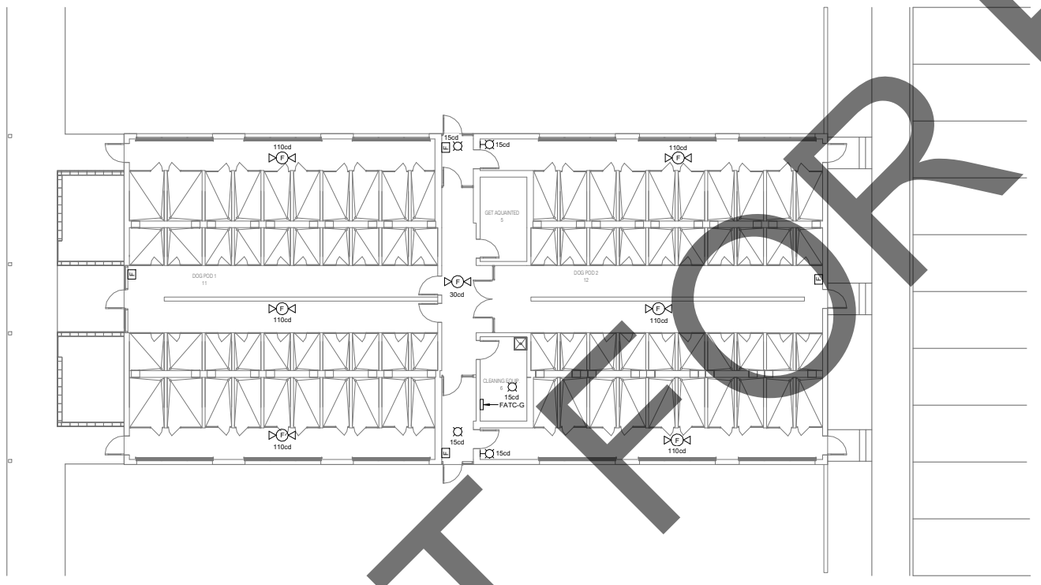
Sheet Of Sheets



NORTH

1 **ADOPTION DOG BUILDING 3FIRE ALARM FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM. SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES. FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES: (#)

REF. SCALE IN INCHES PROJECT #22007989.00

PRELIMINARY NOT FOR CONSTRUCTION

MILLER
architecture
interiors
planning

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initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name
ADOPTION DOG BUILDING 3FIRE ALARM FLOOR PLAN

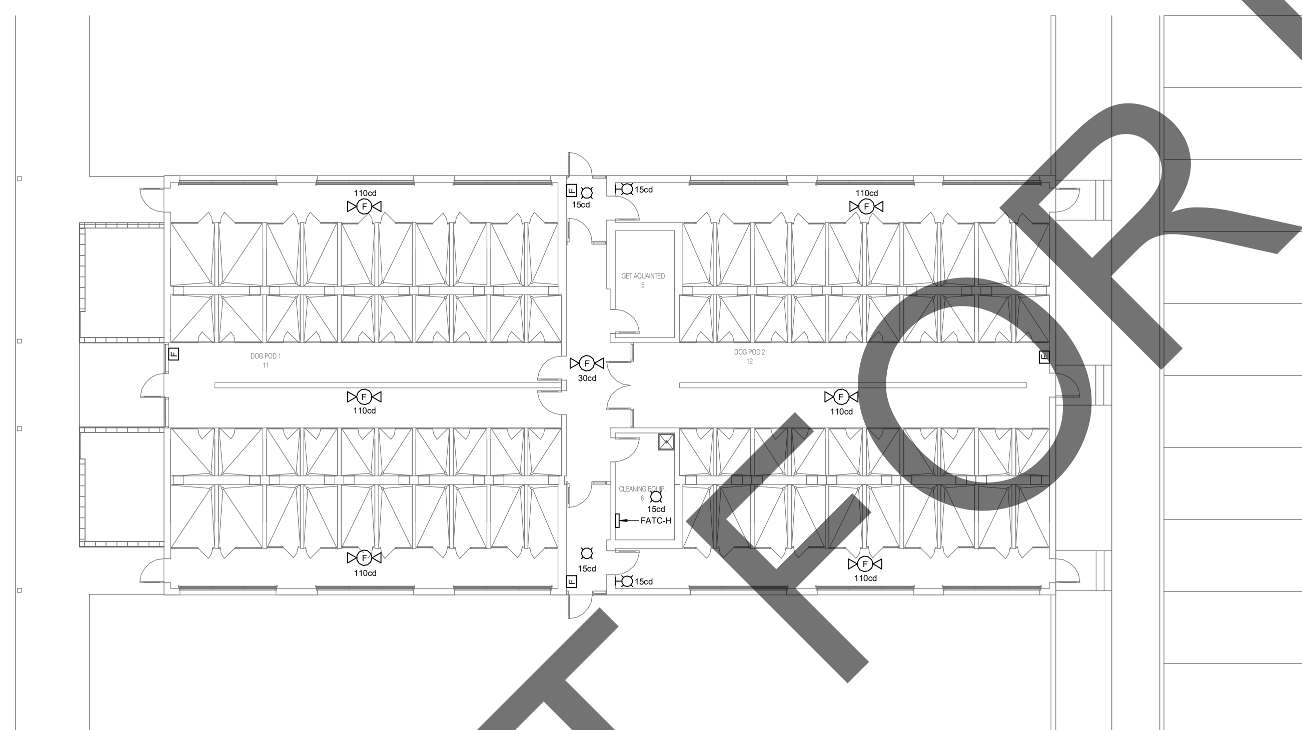
sheet number
FAG-201

Sheet Of Sheets

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES, FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES:



1 **STRAY DOG BUILDINGFIRE ALARM FLOOR PLAN**
1/8" = 1'-0"

NORTH

MILLER
architecture
interiors
planning

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initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

STRAY DOG BUILDINGFIRE ALARM FLOOR PLAN

sheet number

FAH-201

Sheet Of Sheets

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #22007569.00

PRELIMINARY NOT FOR CONSTRUCTION

1 SUPPORT BUILDINGFIRE ALARM FLOOR PLAN

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. THE FIRE ALARM CONTRACT WORK IS A DESIGN/BUILD CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM, SUBMIT PLANS TO THE FIRE DEPARTMENT, PROJECT CONSTRUCTION MANAGER (CM), AND TO THE ARCHITECT FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL CONDUITS, WIRING & ALL DEVICES, FIRE ALARM PANEL & POWER SUPPLY TO INCLUDE ITS SUPPORT SYSTEM. THE FIRE ALARM DRAWINGS INDICATE NEW SUGGESTED LOCATIONS OF DEVICES AND HORN/STROBES AND IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT STAMPED SHOP DRAWINGS TO THE CITY OF SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE MARSHALL APPROVAL AND TO THE PROJECT, CM & THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR PERMITS & ANY INSPECTIONS AND ASSOCIATED FEE. DEVICES SHOWN IN THE FIRE ALARM PLAN ARE FOR REFERENCE ONLY AND SHALL NOT USED FOR BID ESTIMATE. FIRE ALARM SYSTEM REQUIRES A SEPARATE PERMIT AND SUBMITTAL.

KEY NOTES:

MILLER
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

SUPPORT BUILDINGFIRE ALARM FLOOR PLAN

sheet number

FAI-201

Sheet Of Sheets

PRELIMINARY NOT FOR CONSTRUCTION

REF. SCALE IN INCHES

PROJECT #22007569.00

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

NORTH — 1 — VIEW NAME — 1/8" = 1'-0" — PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

1 — M101 — DETAIL REFERRED TO BY SECTION CUT — SHEET DETAIL IS LOCATED ON

SIM — 1 / 4 / 2 / 3 — T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS [1], [2], [3], [4] HOUR FIRE [/SMOKE], BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED ["/"/""].

FIRE PARTITION	
1 HOUR FIRE BARRIER	
2 HOUR FIRE BARRIER OR WALL	
3 HOUR FIRE BARRIER OR WALL	
4 HOUR FIRE BARRIER OR WALL	
SMOKE PARTITION	
SMOKE BARRIER	
1 HOUR FIRE/SMOKE BARRIER OR SHAFT ENCLOSURE	
2 HOUR FIRE/SMOKE BARRIER OR SHAFT ENCLOSURE	
3 HOUR FIRE/SMOKE BARRIER	
4 HOUR FIRE/SMOKE BARRIER	

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	----
MECHANICAL	ANDREW CLOUD
ELECTRICAL	VICTOR MENOR
TECHNOLOGY	JORDAN DOLZADELLI

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
C#	SC-IO-F	INFORMATION OUTLET IN FLOOR BOX/POKE THROUGH	5.
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1.
W	SC-IO-W	INFORMATION OUTLET WALL PHONE (WALL)	1.
C#	SC-IO-C	INFORMATION OUTLET (CEILING)	1.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH X HEIGHT		LADDER RACK	
DIAMETERø C		CONDUIT	
		CONDUIT DOWN	
		CONDUIT UP OR UP/DOWN	
		CONDUIT SLEEVE	
		CONTINUATION	

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
4. REFER TO RISERS ON SHEET(S): **[TXXX, TXXX, TXXX]**.

TECHNOLOGY SYMBOL NOTES:

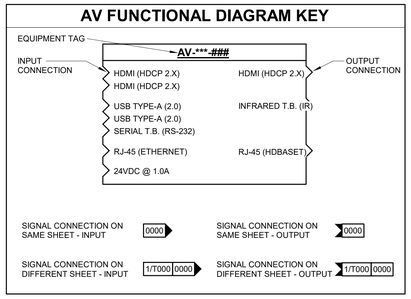
1. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON **[X/XXX]** FOR ADDITIONAL INFORMATION.
2. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE [ENHANCED SECURITY SCHEME (ESS)] ON **[X/XXX]** FOR ADDITIONAL INFORMATION.
3. "CM-#" ON FLOOR PLANS INDICATES CAMERA TYPE AND IS ASSOCIATED WITH THE CORRESPONDING "VS-CM-#" EQUIPMENT SCHEDULE ABBREVIATION. **["##-##" SUBSCRIPT INDICATES FLOOR NUMBER-CAMERA NUMBER. REFER TO INDIVIDUAL CAMERA REQUIREMENT SCHEDULE FOR ADDITIONAL INFORMATION.]**
4. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON **[X/XXX]** FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL FLOOR PLANS AND ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
5. AV INSTALLED IN E.C. PROVIDED FLOOR BOX. "AV#" INDICATES AV TYPE CONFIGURATION. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE ON **[TXXX]** FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL FLOOR PLANS FOR ADDITIONAL INFORMATION ON FLOOR BOX.
6. SYMBOL SUBSCRIPT INDICATES PAGING ZONE.
7. REFER TO LINE TYPE KEY FOR NEW, EXISTING TO REMAIN, OR DEMO LINE TYPE.
8. FLOOR BOX [OR POKE THROUGH] FOR INFORMATION OUTLET PROVIDED AS PART OF THE TECHNOLOGY DOCUMENTS. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. "FB#" [PT#] INDICATES FLOOR BOX TYPE. REFER TO INFORMATION OUTLET SCHEDULE ON **[X/XXX]** AND TECHNOLOGY EQUIPMENT SCHEDULE ON **[TXXX]** FOR ADDITIONAL INFORMATION.
9. FLOOR BOX [OR POKE THROUGH] FOR AV PROVIDED AS PART OF THE TECHNOLOGY DOCUMENTS. "AV#" INDICATES AV TYPE CONFIGURATION. "FB#" [PT#] INDICATES FLOOR BOX TYPE. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE **[TXXX]** FOR ADDITIONAL INFORMATION.
10. FLOOR BOX [OR POKE THROUGH] FOR INFORMATION OUTLET AND AV PROVIDED AS PART OF THE TECHNOLOGY DOCUMENTS. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. "AV#" INDICATES AV TYPE CONFIGURATION. "FB#" [PT#] INDICATES FLOOR BOX TYPE. REFER TO INFORMATION OUTLET SCHEDULE ON **[X/XXX]** AND TECHNOLOGY EQUIPMENT SCHEDULE ON **[TXXX]** FOR ADDITIONAL INFORMATION.
11. SYMBOL SUBSCRIPT INDICATES DEVICE TYPE. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE **[TXXX]** FOR ADDITIONAL INFORMATION.

[NTD]: NOTES 10 - 12 ARE FOR FLOORBOXES PROVIDED BY THE TECHNOLOGY DRAWINGS AND NOT THE ELECTRICAL DRAWINGS.
IF THE ELECTRICAL IS PROVIDING THE FLOOR BOXES, DELETE NOTES 10-12 AND KEEP NOTES 5 AND 6.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFC	BELOW FINISHED CEILING
C	CONDUIT
DE	DELAYED EGRESS
DPDT	DOUBLE POLE DOUBLE THROW
FOV	FIELD OF VIEW
J-BOX	JUNCTION BOX
POE	POWER OVER ETHERNET
PTZ	PAN TILT ZOOM
SIM	SIMILAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM

AV FUNCTIONAL DIAGRAM KEY



SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE INSTALL METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	[E]T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
MC-1	*/T***	*/T***	********
TR-1	*/T***	*/T***	********
TR-2	*/T***	*/T***	********
TR-3	*/T***	*/T***	********
TR-4	*/T***	*/T***	********
TR-5	*/T***	*/T***	********
TR-6	*/T***	*/T***	********

ME COMPONENT ANCHORAGE NOTES:

1. EQUIPMENT ANCHORAGE NOTE:

   ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CDC, SECTION 1616A.18 THROUGH 1616A.1.26 AND ASCE 7-16 CHAPTERS 13,26, AND 30.

   1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARED WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RETRAINED IN A MANNER APPROVED BY DSA.

   THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED DOT THE STRUCTURE. BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTES ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL DIRECTIONS.

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF STRUCTURAL ENGINEER DELEGATE RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

2. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE.

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED INS ASCE 7-16 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CDC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE STAR OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

   MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP)M ELECTRICAL DISTRIBUTION SYSTEMS (E):

   MP [] MD [] PP [] E [] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

   MP [] MD [] PP []OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPN#) #_____.

APPLICABLE CODES AND STANDARDS:

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 California building code (CBC)
California code of regulations (CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2) title 24, part 2
(2018 international building code (IBC) w/ 2019 California amendments)

2019 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2017 NATIONAL ELECTRICAL CODE (NEC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24, PART 9
(2018 INTERNATIONAL FIRE CODE (IFC) W/ 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10
(2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2019 CALIFORNIA REFERENCES STANDARDS CODE
CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
(CAL GREEN), PART II, TITLE 24 C.C.R

TECHNOLOGY GENERAL NOTES:

1. ##-####-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
2. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H — MOUNT ORIENTED HORIZONTALLY
- L — MOUNT IN CASEWORK
- M — MOUNT IN MODULAR FURNITURE
- S — MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC., UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. THE TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THE CEILINGS, CEILING TILES, AND CEILING GRID ASSOCIATED WITH THE AREAS OF WORK BY ALL CONTRACTORS.
9. ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 27 05 28 AND 27 11 00 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.

TECHNOLOGY OUTSIDE PLANT NOTES

1. THE LOCATION OF THE CONDUIT, HAND HOLES AND/OR MAINTENANCE HOLES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIVATE AND/OR PUBLIC PRIOR TO THE INSTALLATION OF THE COMPONENT. FIELD COORDINATE THE FINAL LOCATION WITH THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
2. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES, IF APPLICABLE, SHALL BE INCLUDED IN THE CONTRACTOR'S BID. CONTRACTOR IS RESPONSIBLE FOR FINAL PLACEMENT OF HAND HOLES AND/OR MAINTENANCE HOLES AND SHALL NOTIFY THE ENGINEER OF FINAL LOCATIONS PRIOR TO INSTALLATION.
3. HAND HOLES AND/OR MAINTENANCE HOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE GROUND LINE.
4. REMOVAL AND REPLACEMENT OF THE EXISTING UNDERGROUND UTILITIES THAT ARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
5. CONTRACTOR SHALL INCLUDE IN THEIR BID ANY REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, GRASS, SHRUBS, TREES, ETC. THAT WILL BE IMPACTED BY THE INSTALLATION OF THE NEW CONDUITS SHOWN ON THE DRAWINGS. IF TREES ARE REQUIRED TO BE REMOVED THE CONTRACTOR SHALL CONTACT THE OWNER AND DISCUSS OPTIONS PRIOR TO CUTTING DOWN ANY TREE OR SHRUB OVER 5' IN HEIGHT.
6. NO ADDITIONAL COST SHALL BE APPROVED FOR PLACING CONDUITS DEEPER THAN REQUIRED MINIMUM DEPTH.
7. PROVIDE A MINIMUM OF 25'-0" SLACK LOOP WITHIN EACH HAND HOLES AND/OR MAINTENANCE HOLES. SLACK LOOP SHALL BE SECURE SO COPPER OR FIBER IS NOT RESTING ON EARTH AFTER FINAL INSTALLATION.

TECHNOLOGY SHEET INDEX

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

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TECHNOLOGY COVERSHEET

sheet number

T-100

Sheet Of Sheets

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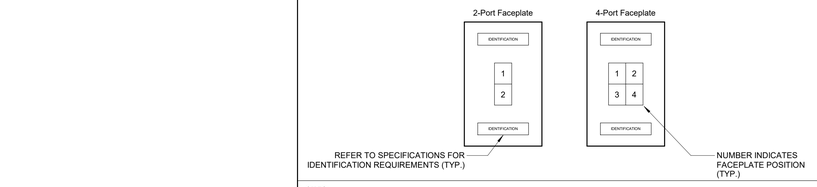
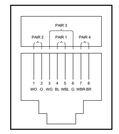
PRELIMINARY NOT FOR CONSTRUCTION

TELECOMMUNICATIONS OUTLET SCHEDULE

SINGLE GANG WALLPLATES





ANSI/TIA/EIA T568B
PIN/PAIR ASSIGNMENT

NOTES:
1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICAITONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE...

LEGEND

DATA	CAT 6 RJ-45
VOICE	CAT 6 RJ-45
BLANK	BLANK FILLER MODULE
TV	F-CONNECTOR

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION						NOTES
		POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	
C2	2	DATA	DATA					
C2-TV	2	DATA	DATA					
C2-WAP	2	DATA	DATA					
C3	3	DATA	DATA	DATA	BLANK			
C4	4	DATA	DATA	DATA	DATA			
W	1	VOICE						

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
SC-ER-45	2 POST EQUIPMENT RACK, 45RU MOUNTING SPACE, 84"H X 15"D X 20.3"W, AVAILABLE WITH 3" DEEP HOLES. #12-24 TAPPED MOUNTING RAILS. DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENTS, 1000 LB WEIGHT CAPACITY.	CHATSWORTH PRODUCTS 55053-703
SC-GND-1	GROUNDING BUSBAR, WALL MOUNT. 2" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. COPPER GROUND BAR IS 1/4" THICK AND STAND OFF 2.75" FROM WALL. THE 12" BUSBAR PROVIDES CONNECTION FOR NINE (9) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED.	CHATSWORTH 13622-012
SC-IO-C	INFORMATION OUTLET, CEILING MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO SHEET T-101 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR UON. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	COMMSCOPE JACK CAT6A MGS600 FACEPLATE M12L-246
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, COVERPLATE AS INDICATED ON DRAWINGS. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO SHEET T-101 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. "W" PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF FOR WALL HUNG PHONE. PROVIDE WITH STAINLESS STEEL FACEPLATE, MATING LUGS. FOR SINGLE GANG INSTALL INFORMATION OUTLET IN A 4-11/16" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. INSTALL A 1 1/4" EMT CONDUIT TO ACCESSIBLE CEILING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	COMMSCOPE JACK MGS600 FACEPLATE - SINGLE GANG M12L-266 M14L-266
SC-LRL-18	HORIZONTAL/VERTICAL LADDER RACK, 18"W TUBULAR STEEL CONSTRUCTION, RUST RESISTANT ENAMEL FINISH, REMOVE SHARP BURS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED. U.L. LISTED.	CHATSWORTH 10250-718
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 3/4" THICK A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 8'-6" AFF. IN THE EVENT THE MANUFACTURER'S RATING STAMP IS NOT VISIBLE ON THE SMOOTH SIDE, THE CONTRACTOR SHALL PROVIDE A LAMINATED LETTER FROM THE MANUFACTURER OR SUPPLIER CERTIFYING THAT THE PLYWOOD IS FIRE-RATED AND ATTACH THE LETTER WITH A PICTURE OF THE RATING STAMP, TO THE PLYWOOD. FIRE RATED PLYWOOD SHALL NOT BE PAINTED OR TREATED WITH ANY TYPE OF SEALANT THAT WOULD LESSEN THE INTEGRITY OF THE FIRE RATING.	N/A
SC-VWM-1	DOUBLE SIDED VERTICAL WIRE MANAGER, INCLUDES TWO SLACK SPOOLS, 84"H X 6" W X 15.5"D, BLACK POWDER COATED, INCLUDES DUAL HINGED METAL DOOR. INCLUDE CABLE RING KIT #32573-700	CHATSWORTH 32620-703

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revisions/addenda

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ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

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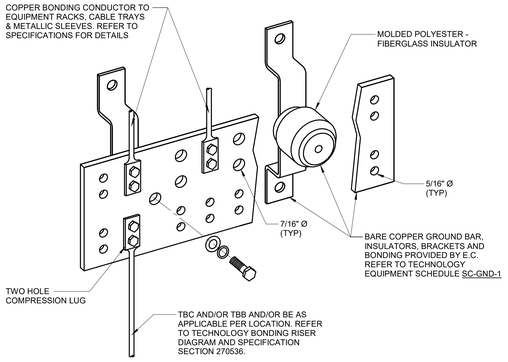
SCHEDULES

sheet number

T-101

Sheet Of Sheets

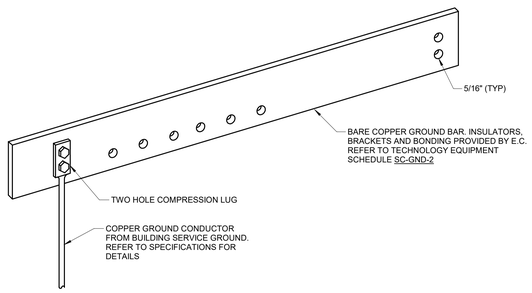


1 BONDING BUS BAR DETAIL

NO SCALE
T_032_15

NOTES:

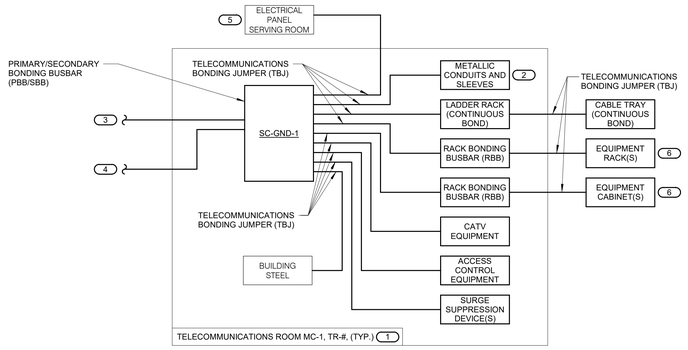
1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR MINIMUM DIMENSION REQUIREMENTS.
2. REFER TO **---[#/T###]---** FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.



2 RACK MOUNT BONDING BUS BAR DETAIL

NO SCALE
T_162_15

1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-2 FOR WIDTH REQUIREMENTS.



3 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

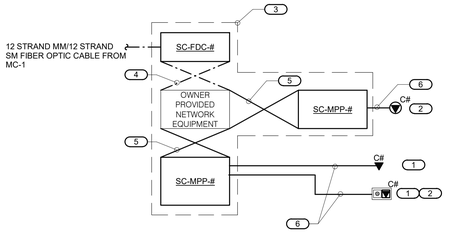
NO SCALE
T_042_15

NOTES:

1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE [PLENUM RATED] COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR). REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.

KEYNOTES:

1. REFER TO TELECOM ROOM REFERENCES SCHEDULE FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.
2. INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB). REFER TO TELECOMMUNICATIONS BONDING RISER DIAGRAM.
4. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC), TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO TELECOMMUNICATIONS BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS.
5. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.
6. PROVIDE SC-GND-2 RACK MOUNT TELECOMMUNICATIONS BONDING BUSBAR AT EACH EQUIPMENT RACK AND CABINET.



4 TYPICAL TELECOM ROOM CONNECTIVITY DIAGRAM

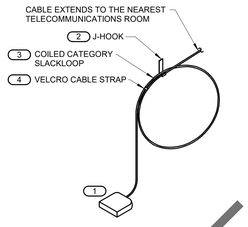
NO SCALE
T_046_01

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. [REFER TO THE AV FUNCTIONAL DIAGRAMS FOR ADDITIONAL INFORMATION.]

KEYNOTES: (#)

1. C# INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE AND SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
3. RACK(S) OR CABINET(S) AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
5. RJ-45 TO RJ45 CATEGORY ---[SE][6][6A]--- UTP PATCH CORDS, REFER TO SPECIFIATIONS.
6. 4-PAIR, CATEGORY ---[SE][6][6A]---, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. REFER TO SPECIFICATIONS FOR COPPER PATCH CORD REQUIREMENTS.
8. DEVICE REQUIRES DATA CONNECTION. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE CABLING WITH DEVICE PROVIDER.



5 ABOVE CEILING INFORMATION OUTLET MOUNTING DETAIL

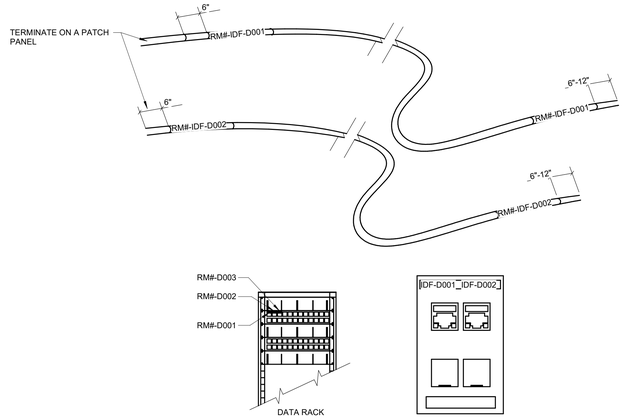
NO SCALE
T_173_01

NOTES:

1. THIS DIAGRAM MAY NOT REPRESENT THE QUANTITY OF CABLES TO EACH INFORMATION OUTLET JUNCTION BOX. REFER TO THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE FOR ADDITIONAL INFORMATION.
2. ALL DEVICES ARE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.

KEYNOTES: (#)

1. 2-PORT PLENUM RATED SURFACE MOUNTED BOX. SUPPORT FROM J-HOOK. REFER TO THE INFORMATION OUTLET SCHEDULE AND TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
3. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
4. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.



6 DATA LABELS DETAIL

NO SCALE
T_056_01

NOTES:

1. RM# IS THE ROOM NUMBER WHERE THE COMMUNICATION JACK IS LOCATED.
2. IDF IS THE COMMUNICATION ROOM WHERE THE PATCH PANEL OR 110 BLOCK IS LOCATED.
3. THE 'D' ON THE CABLE INDICATES A DATA CABLE.
4. THE THREE DIGIT NUMERAL IS A SEQUENTIAL NUMBER THAT START WITH "1" IN EACH COMMUNICATION ROOM.

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REF. SCALE IN INCHES 0 1 2 3
PROJECT #2007569.00

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planning

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LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-21
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

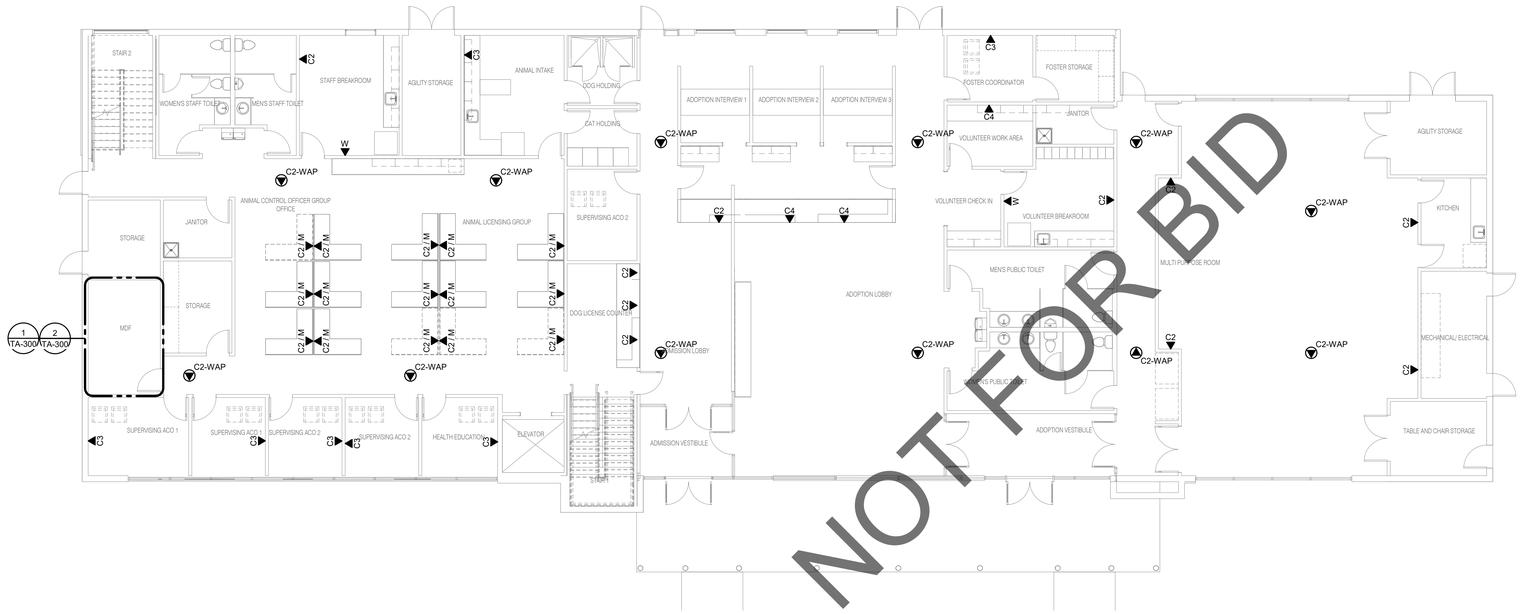
sheet name

DETAILS

sheet number

T-200

Sheet Of Sheets



NORTH

1 **ADMINISTRATION BUILDING TECHNOLOGY FIRST FLOOR PLAN**
1/8" = 1'-0"

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD, BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name
ADMINISTRATION BUILDING TECHNOLOGY FIRST FLOOR PLAN

sheet number
TA-101

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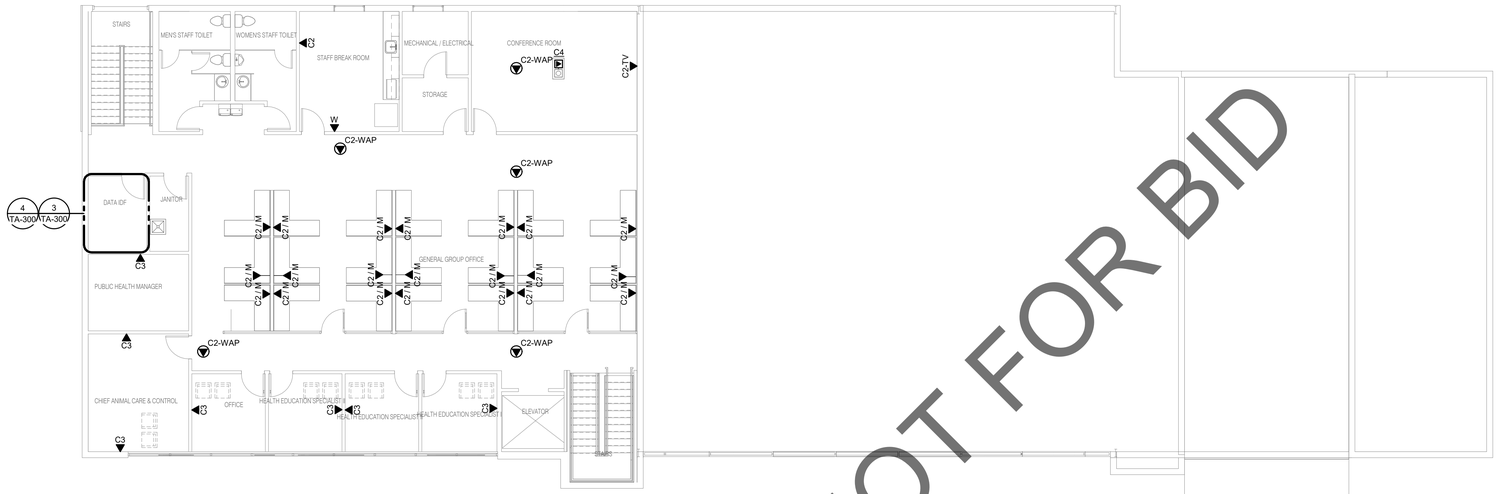

1 **ADMINISTRATION BUILDING TECHNOLOGY SECOND FLOOR PLAN**
1/8" = 1'-0"

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interiors
planning

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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PROJECT #220075690.00

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project information

Project Number:	1227
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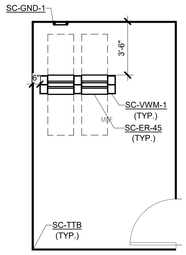
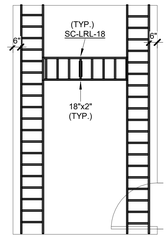
sheet name
ADMINISTRATION BUILDING TECHNOLOGY SECOND FLOOR PLAN

sheet number
TA-102

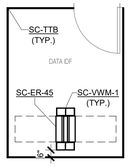
Sheet Of Sheets



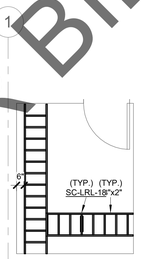
1 ADMINISTRATION BUILDING - MDF - EQUIPMENT PLAN
1/4" = 1'-0"



2 ADMINISTRATION BUILDING - MDF - PATHWAY PLAN
1/4" = 1'-0"



3 ADMINISTRATION BUILDING - IDF - EQUIPMENT PLAN
1/4" = 1'-0"



4 ADMINISTRATION BUILDING - IDF - PATHWAY PLAN
1/4" = 1'-0"

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LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-23
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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PROJECT #22007569.00

PRELIMINARY
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CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
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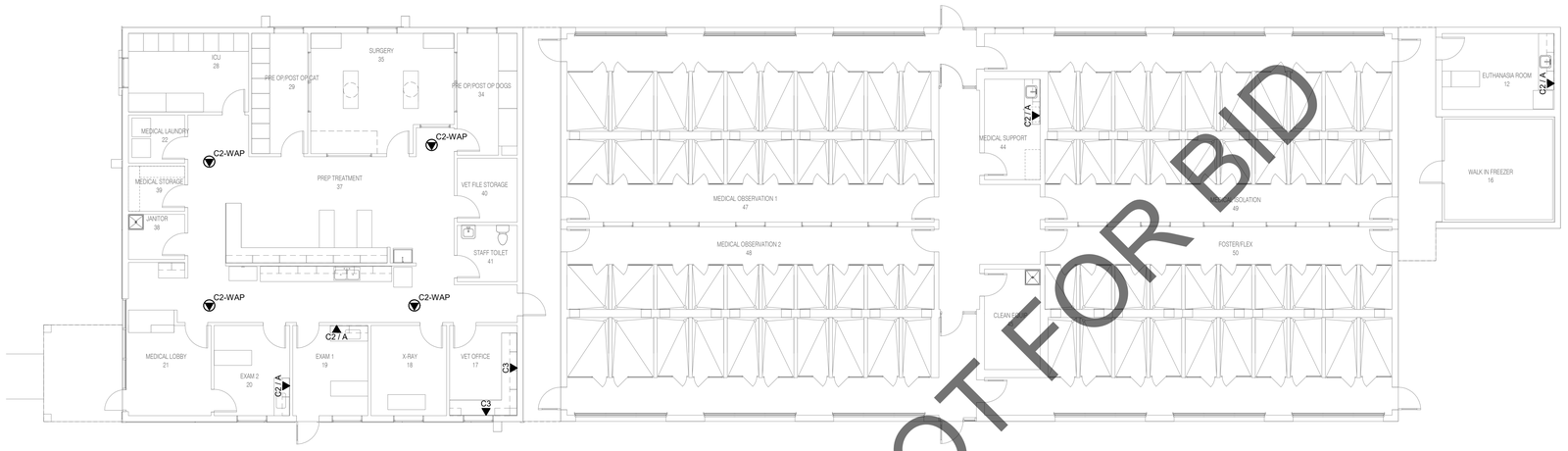
Issue Date:	06/01/23

sheet name
ADMINISTRATION BUILDING TECHNOLOGY ENLARGED PLANS

sheet number
TA-300

Sheet Of Sheets



1 **MEDICAL CLINIC TECHNOLOGY FLOOR PLAN**
1/8" = 1'-0"

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interiors
planning

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GARY W. MILLER
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
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Issue Date:	06/01/23

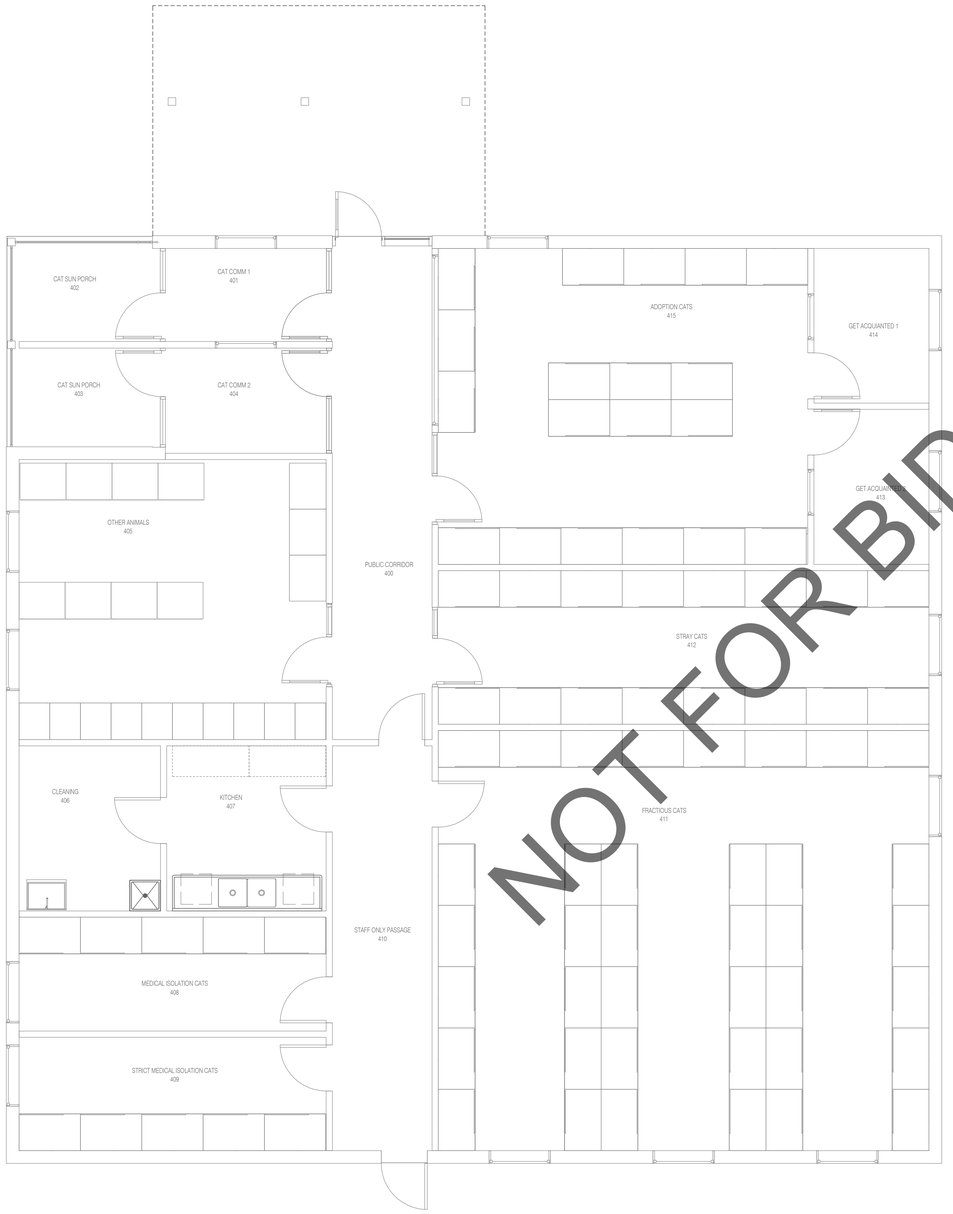
sheet name

MEDICAL CLINIC TECHNOLOGY FLOOR PLAN

sheet number

TBC-201

Sheet Of Sheets



NORTH

1 **CAT & OTHER ANIMALS BUILDING TECHNOLOGY FLOOR PLAN**

1/4" = 1'-0"

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LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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PROJECT #22007569.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

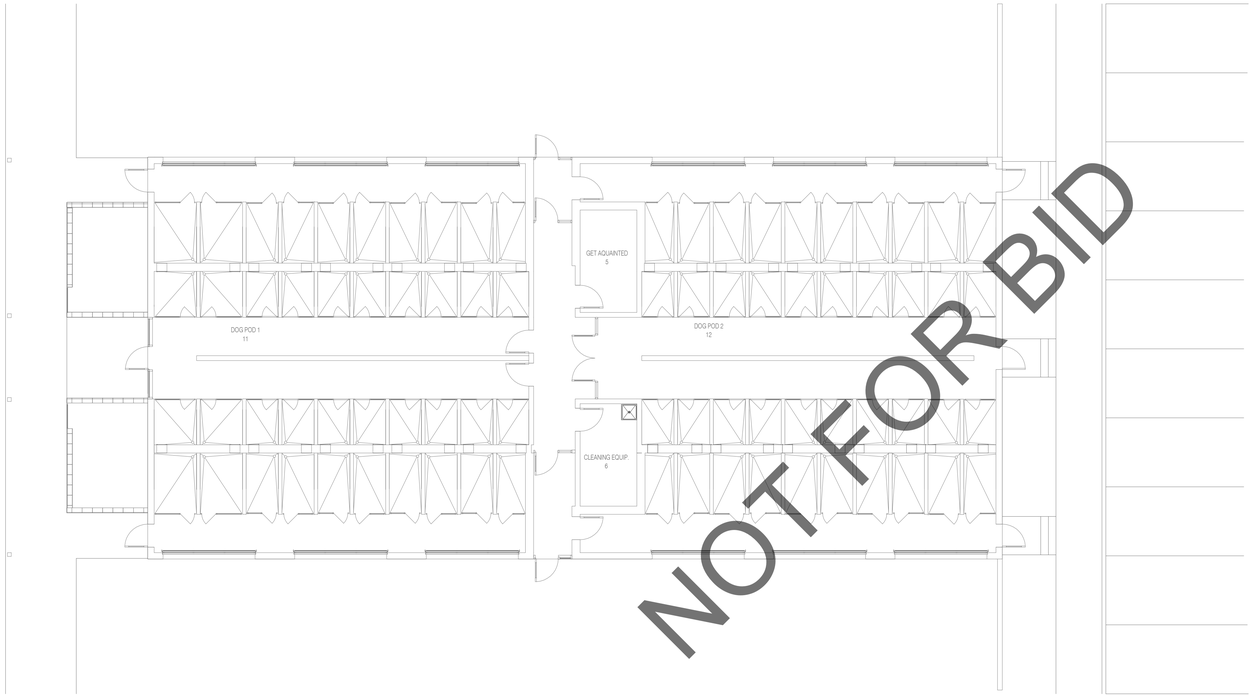
sheet name

CAT & OTHER ANIMALS BUILDING TECHNOLOGY FLOOR PLAN

sheet number

TD-201

Sheet Of Sheets



NORTH

1 **ADOPTION DOG BUILDING 1 TECHNOLOGY FLOOR PLAN**
1/8" = 1'-0"

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architecture
interiors
planning

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LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-23
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

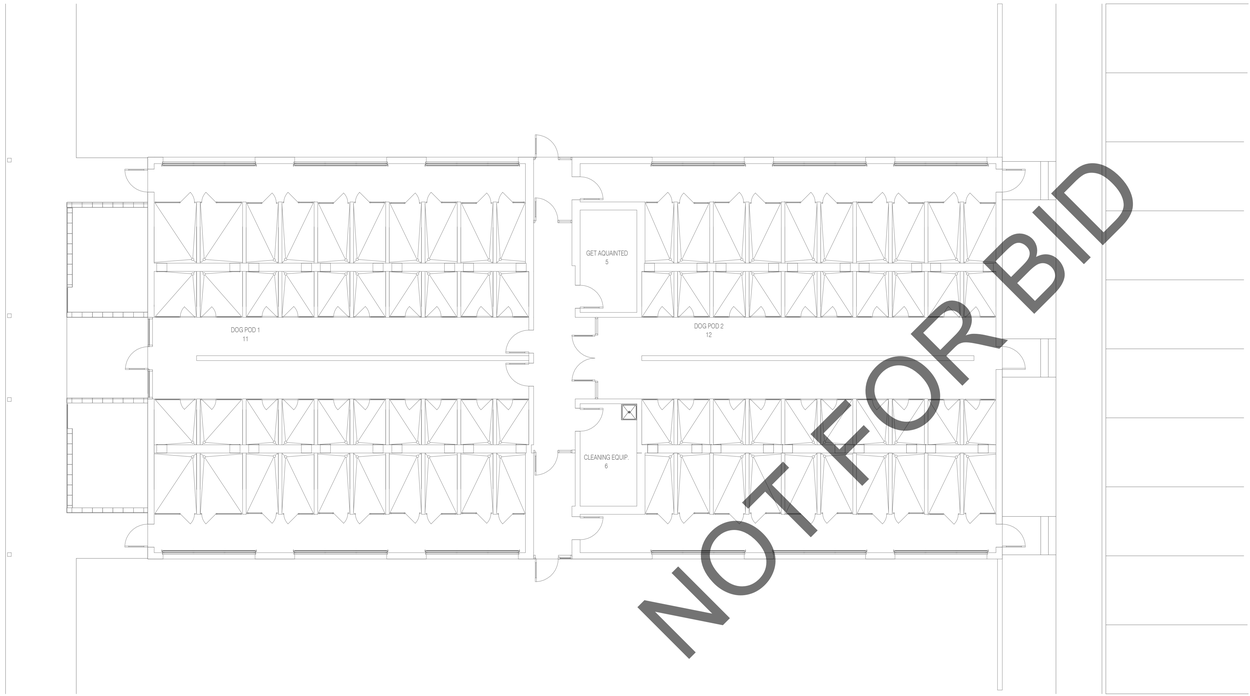
sheet name

ADOPTION DOG BUILDING 1 TECHNOLOGY FLOOR PLAN

sheet number

TE-201

Sheet Of Sheets



NORTH 1 **ADOPTION DOG BUILDING 2 TECHNOLOGY FLOOR PLAN**
1/8" = 1'-0"

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planning

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No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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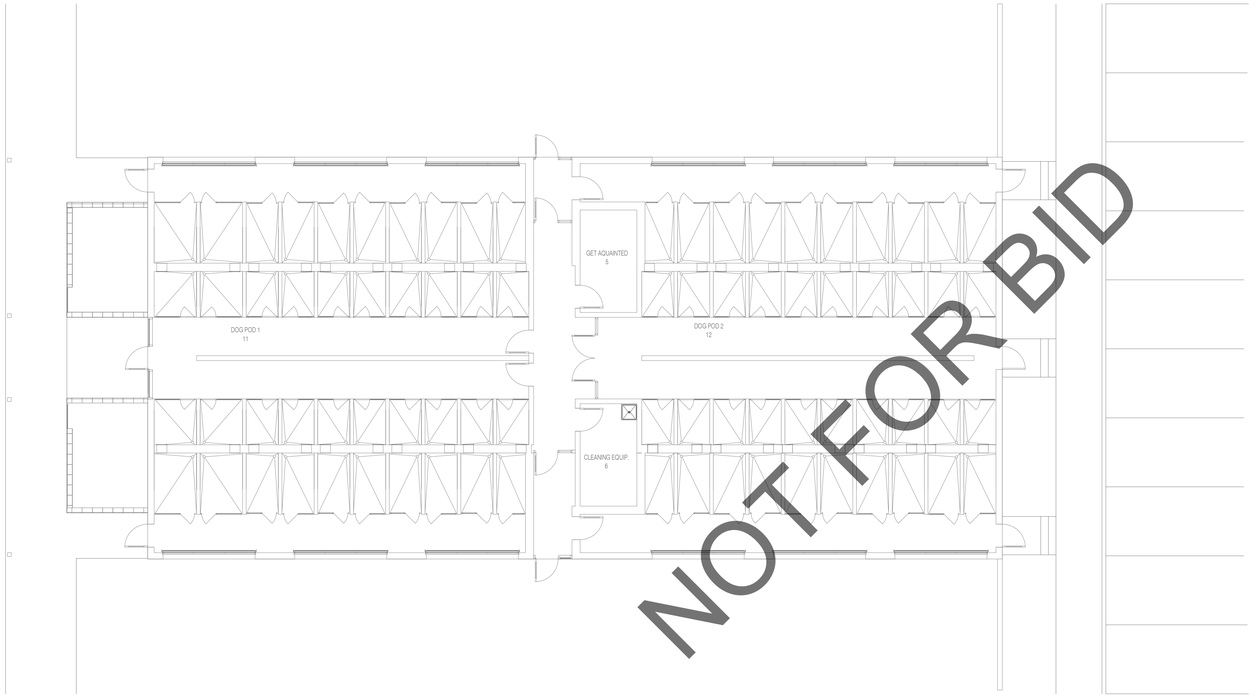
project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name
ADOPTION DOG BUILDING 2 TECHNOLOGY FLOOR PLAN

sheet number
TF-201

Sheet Of Sheets



NORTH 1 **ADOPTION DOG BUILDING 3 TECHNOLOGY FLOOR PLAN**
1/8" = 1'-0"

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planning

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No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

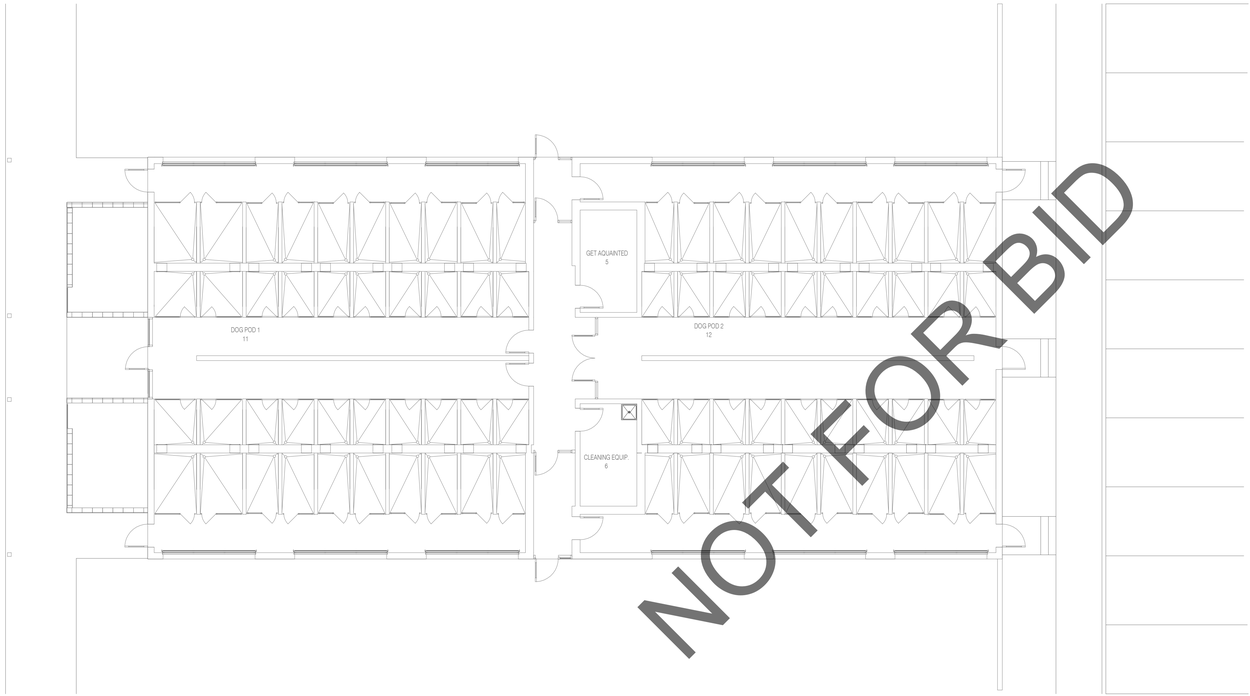
project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name
ADOPTION DOG BUILDING 3 TECHNOLOGY FLOOR PLAN

sheet number
TG-201

Sheet Of Sheets



NORTH 1 **STRAY DOG BUILDING TECHNOLOGY FLOOR PLAN**
1/8" = 1'-0"

MILLER
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interiors
planning

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No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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REF. SCALE IN INCHES PROJECT #22007569.00

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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

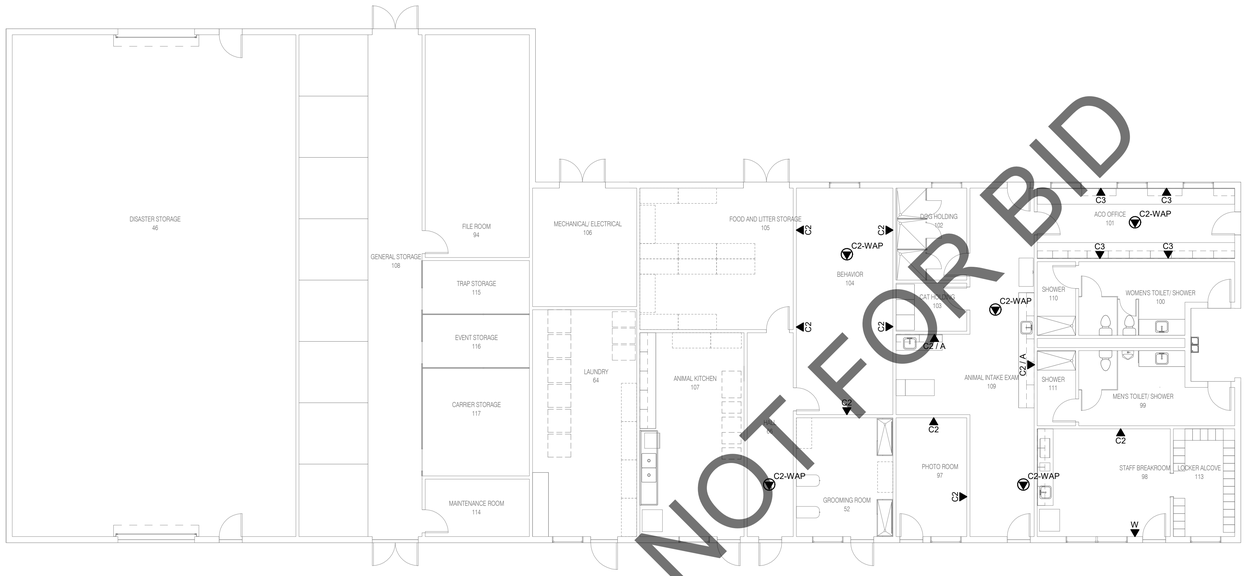
sheet name

STRAY DOG BUILDING TECHNOLOGY FLOOR PLAN

sheet number

TH-201

Sheet Of Sheets



1 SUPPORT BUILDING TECHNOLOGY FLOOR PLAN
1/8" = 1'-0"

NORTH

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architecture
interiors
planning

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STATE OF CALIFORNIA

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Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

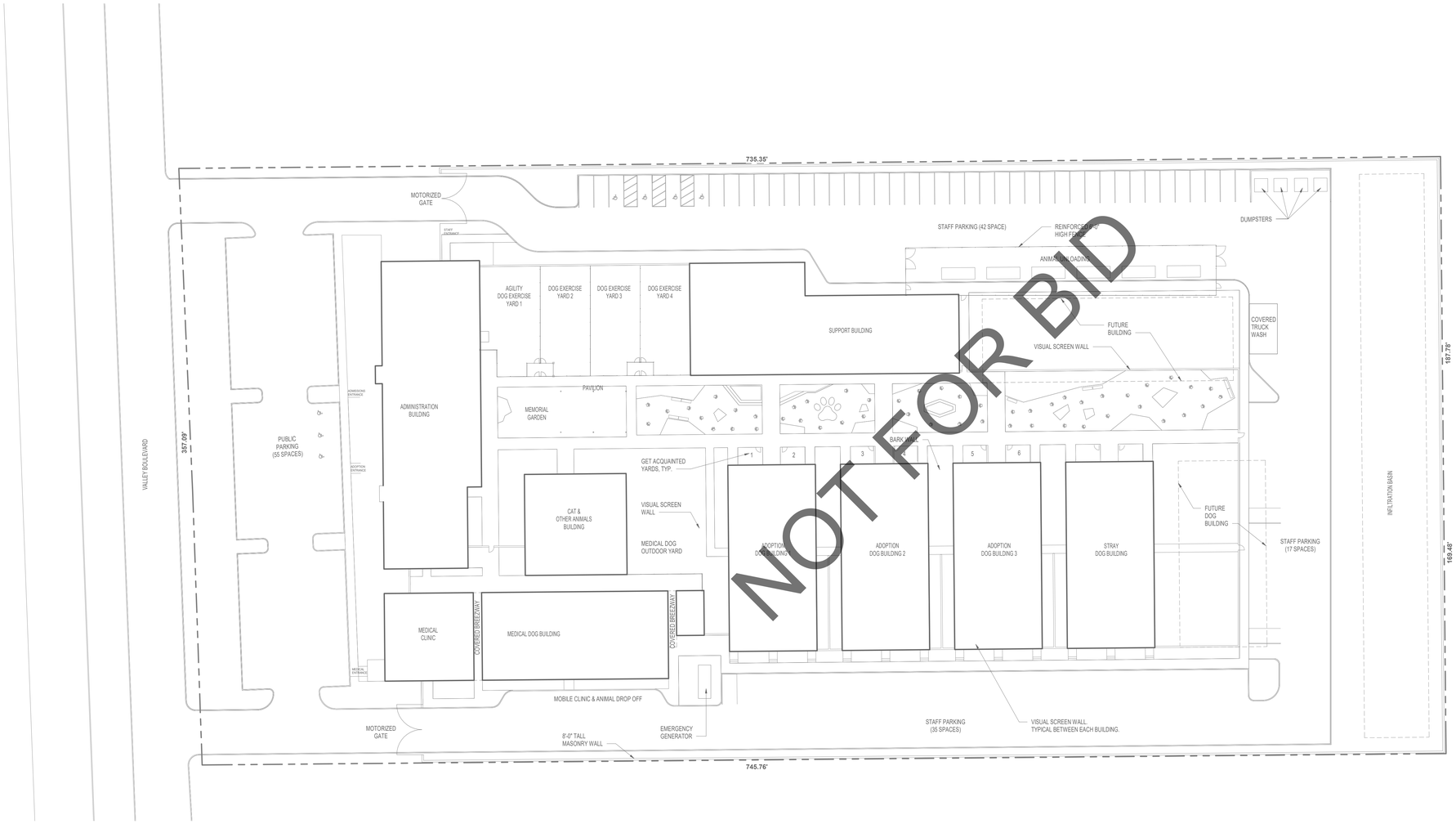
sheet name

SUPPORT BUILDING TECHNOLOGY FLOOR PLAN

sheet number

TI-201

Sheet Of Sheets



NORTH

1 TECHNOLOGY SITE PLAN

1" = 30'-0"

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initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

TECHNOLOGY SITE PLAN

sheet number

TS-101

Sheet Of Sheets

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PROJECT #22007569.00

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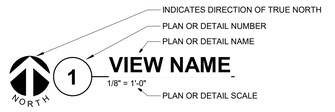
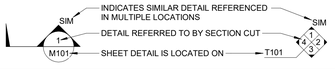
VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
——— NEW
– – – – – – EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
— — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
——— EXISTING
– – – – – – EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
— — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

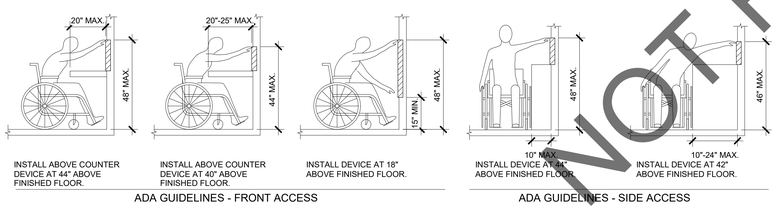
HVAC ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

HVAC SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
SD-1 6/11S	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
###	TERMINAL AIR BOX (REFER TO SCHEDULE)
###	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
H	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	DIFFERENTIAL PRESSURE SENSOR
H	HUMIDISTAT SENSOR
H	HUMIDISTAT / SENSOR (DUCT MOUNTED)
C	CARBON MONOXIDE SENSOR
C_2	CARBON DIOXIDE SENSOR
O	OCCUPANCY SENSOR
P	PRESSURE SENSOR/MONITOR
P	PRESSURE SENSOR (DUCT MOUNTED)
T	THERMOSTAT/SENSOR
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER



ADA STANDARDS FOR ACCESSIBLE DESIGN

APPLICABLE CODES AND STANDARDS:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE (IBC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2020 NATIONAL ELECTRICAL CODE (NEC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE (IFC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2022 CALIFORNIA REFERENCES STANDARDS CODE
CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 PART 11

TAB POST-CONSTRUCTION NOTES:

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
2. AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE- DEMOLITION REPORT).
3. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
4. A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
6. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. **[NTD: KEEP FOR WORK IN CONGESTED RENOVATIONS]**
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE **[GENERAL CONTRACTOR|CONSTRUCTION MANAGER| |ARCHITECT/ENGINEER] [ ]** PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. **[NTD: KEEP FOR MULTI-STORY PROJECTS WITH LEVELS BELOW THAT ARE OUT OF PROJECT SCOPE]**
5. **[NTD CHOOSE AND EDIT THE APPROPRIATE ONE OF THE FOLLOWING TWO BELOW]** [THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING] [EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.]
6. THE **[GENERAL CONTRACTOR] [ ]** IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE **[GENERAL CONTRACTOR] [ ]** OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
11. **[NTD DETERMINE IF REQUIRED BY OWNER]** DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
4. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
5. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
6. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
7. CLEAN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK UPSTREAM OF ALL NEW CONNECTIONS PER SPECIFICATION SECTION 23 31 00. **[NTD: INCLUDE ONLY IF NECESSARY. CLEANING IS EXPENSIVE]**

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. **[NTD: EDIT TO MATCH SCOPE]**
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL **[FLOOR,] WALL, [AND ROOF]** PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. **[PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.]**
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS:	BASED ON WEATHER DATA FOR: (CITY, STATE)
SUMMER:	##°F DRY BULB, ##°F WET BULB
WINTER:	##°F DRY BULB
WINTER: (AIR SYSTEM'S OUTSIDE AIR STREAM)	##°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN:	##°F DRY BULB, ##% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)
WINTER DESIGN:	##°F DRY BULB, ##% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)
SUMMER SETBACK:	##°F DRY BULB, ##% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)
WINTER SETBACK:	##°F DRY BULB, ##% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

MECHANICAL SHEET INDEX

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0 1 2 3
REF: SCALE IN INCHES
PROJECT #220070569.00

PRELIMINARY NOT FOR CONSTRUCTION

THIS IS A COMBINED VERSION OF THE VENTILATION AND PIPING COVERSHEETS. DELETE UNNEEDED SHEETS AND AVOID DUPLICATING INFORMATION.

MILLER
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interiors
planning

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

sheet name

MECHANICAL COVERSHEET

sheet number

M-100

Sheet Of Sheets

PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP

NOTES:
1. -

TAG NAME	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN (NOTE 3)					UNIT ELECTRICAL DATA								COOLING COIL - DX							HEATING COIL - DX					POWERED EXHAUST (NOTE 1 AND 3)			WEIGHT (NOTE 2)						
				CFM TOTAL	EXT S.P. IN W.C.	RPM	BHP	MHP	VOLTAGE	PHASES	FLA	MCA	MOCP	DISCONNECT(S) BY (NOTE A)	DISCONNECT(S) TYPE (NOTE B)	CONTROLLER STARTER(S) BY (NOTE A)	CONTROLLER STARTER(S) TYPE (NOTE B)	SCCR	EAT DB °F	EAT WB °F	LAT DB °F (NOTE 4)	LAT WB °F (NOTE 4)	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	EAT DB °F	LAT DB °F (NOTE 4)	TOTAL MBH	AMB TEMP °F	SEER (EER)	FILTER TYPE	DISCHARGE DIRECTION	CFM TOTAL	EXT S.P. IN W.C.	RPM	UNIT WEIGHT	POWER EXHAUST WEIGHT	(TOTAL) OPERATING	AUTOMATIC SMOKE DETECTION SHUTOFF	MANUFACTURER	MODEL	NOTES
AC-1-1	ADMINISTRATION BUILDING	12.5	0	5000	1.0	1527	1.9	3	208	3	0 A	53 A	60 A	EC				5,000 A	81.7	0.0	55.0	55.0	112.5	150	105	0	0	150	30		MERV 13	HORIZONTAL	5,000	0		0	0		YES	CARRIER	50FCQM14	

DEDICATED OUTDOOR AIR UNIT

NOTES:
1. COMPLETE WITH MERV-13 PREFILTER, UV LIGHT, INLINE FILTER BOX WITH CARBON FILTER.
2. MOUNTED ON CONCRETE PAD ON GRADE.
3. MOUNTED ON VIBRATION ISOLATION ROOF CURB.

TAG NAME	AREA SERVED	SUPPLY FAN					HEATING				COOLING					ELECTRICAL (NOTE 1)											
																					DISCONNECT(S)		CONTROLLER/ STARTER(S)				
		CFM TOTAL	EXT. S.P.	RPM (NOTE D)	BHP (NOTE E)	MHP (NOTE E)	EAT °F DB	EAT °F WB	LAT °F	TOTAL MBH	EAT °F DB	EAT °F WB	LAT °F WB	LAT °F DB	TOTAL MBH	VOLTAGE	PHASES	FLA	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	WEIGHT	MANUFACTURER	MODEL	NOTES
OAU-2-1	MEDICAL CLINIC	4800	1.75	1183	3	7.5	30.0	28	86.9	195	102.0	73.0	56	54	274	460	3	112	131	150	EC				3110	AAON	RNA-025-CA-3-CJB0C	
OAU-3-1	MEDICAL DOG BUILDING	6800	1.75	1315	4.2	5	30.0	28	68.1	343	102.0	73.0	52	51	449	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1,3
OAU-4-1	CAT BUILDING	6800	1.75	1315	4.2	5	30.0	28	68.1	343	102.0	73.0	52	51	449	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1, 2
OAU-5-1	ADOPTION DOG BUILDING 1	6800	1.75	1315	4.2	5	30.0	28	68.1	343	102.0	73.0	52	51	449	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1,3
OAU-6-1	ADOPTION DOG BUILDING 2	6800	1.75	1315	4.2	5	30.0	28	68.1	343	102.0	73.0	52	51	449	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1,3
OAU-7-1	ADOPTION DOG BUILDING 3	6800	1.75	1315	4.2	5	30.0	28	68.1	343	102.0	73.0	52	51	449	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1,3
OAU-8-1	STRAY DOG BUILDING	6800	1.75	1315	4.2	5	30.0	28	68.1	343	102.0	73.0	52	51	449	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1,3
OAU-9-1	SUPPORT BUILDING	6400	1.75	1280	3.9	5	30.0	28	70.5	343	102.0	73.0	50	49	440	208	3	192	201	225	EC				6225	AAON	RNA-040-D-A-8-CJB0B	1, 2

VRF MODULAR OUTDOOR UNIT SCHEDULE

NOTES:
1. EACH MODULE TO RECEIVE SEPERATE POWER.LECTRICAL CONNECTION AND DISCONNECT.

TAG NAME	AREA SERVED	COOLING	HEATING	ELECTRICAL							WEIGHT	MANUFACTURER	MODEL	NOTES
						MODULE 1. 2 & 3 (NOTE 1)		DISCONNECT		CONTROLLER/STARTER				
		NOMINAL MBH (NOTE 3)	DESIGN MBH (NOTE 5)	VOLTAGE	PHASES	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	OPERATING				
HP-1	ADMIN BUILDING	412	462	208	3	52	60	EC			0	2625	Toshiba Carrier Corporation	MMY-AP4326FT9PUL		

VRF INDOOR UNIT SCHEDULE

NOTES:
1. COMPLETE WITH FILTERBOX AND MERV-13 FILTER

TAG NAME	AREA SERVED	ASSOCIATED VRF HEAT PUMP	TONS	CFM	OA CFM	EXT. S.P. IN. W.C.	COOLING CAPACITY BTUH	HEATING CAPACIT Y BTUH	ELECTRICAL										WEIGHT	MANUFACTURER	MODEL	NOTES
									VOLTAGE	PHASES	FLA	MCA	MOCP	SCCR	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)	CONTROLLER/ STARTER TYPE (NOTE C)				
FC-1	1ST FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-2	1ST FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-3	1ST FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-4	1ST FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-5	1ST FLOOR ADMIN. BUILDING	HP-1	4	1230	0	1	48	54	208	1	3.88	15 A	5000	EC					100	Toshiba Carrier Corporation	MMD-AP0484H2UL	
FC-6	1ST FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-7	1ST FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-8	1ST FLOOR ADMIN. BUILDING	HP-1	4	1230	0	1	48	54	208	1	310	3.88	15 A	5000	EC				100	Toshiba Carrier Corporation	MMD-AP0484H2UL	
FC-9	2ND FLOOR ADMIN. BUILDING	HP-1	4	1230	0	1	48	54	208	1	310	3.88	15 A	5000	EC				100	Toshiba Carrier Corporation	MMD-AP0484H2UL	
FC-10	2ND FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-11	2ND FLOOR ADMIN. BUILDING	HP-1	2.5	880	0	1	30	40	208	1	2.39	2.99	15 A	5000	EC				80	Toshiba Carrier Corporation	MMD-AP0304H2UL	
FC-12	2ND FLOOR ADMIN. BUILDING	HP-1	4	1230	0	1	48	54	208	1	310	3.88	15 A	5000	EC				100	Toshiba Carrier Corporation	MMD-AP0484H2UL	

FAN SCHEDULE

NOTES:
1. COMPLETE WITH DISCHARGE SHUTTER AND BELT GUARD.
2. COMPLETE WITH ISOLATION RAILS AND SF2-225 ISOLATORS.
3. INTERLOCK WITH BUILDING'S 100% OSA UNIT.

TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MOTOR ROTATION	DISCHARGE	BACKDRAFT DAMPER TYPE	ELECTRICAL (NOTE 1)									WEIGHT	ANCHORAGE DETAIL	MANUFACTURER	MODEL	NOTES
									BHP (NOTE E)	MHP (NOTE E)	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)	CONTROLLER/ STARTER TYPE (NOTE C)	SCCR					
EF-1-1	ADMIN BUILDING	1850	0.75	127	BELT	N/A	DOWN BLAST	GRAVITY	0.41	0.5	120	1	EC				5000	140	4/M200	Loren Cook Company	ACEB	
EF-2-1	MEDICAL CLINIC	5400	1.00	829	BELT	CW	THD	GRAVITY	1.43	1.5	208	3	EC				5000	450	2/M200	LOREN COOK	245 CPA	1, 3
EF-3-1	MEDICAL DOG BUILDING	8000	1.00	844	BELT	CW	UBD	GRAVITY	2.42	3	208	3	EC				5000	720	1/M200	LOREN COOK	270 CPA	1, 2, 3
EF-4-1	CAT BUILDING	8000	1.00	844	BELT	CCW	THD	GRAVITY	2.42	3	208	3	EC				5000	600	2/M200	LOREN COOK	270 CPA	1, 3
EF-5-1	ADOPTION DOG BUILDING 1	8000	1.00	844	BELT	CW	UBD	GRAVITY	2.42	3	208	3	EC				5000	720	1/M200	LOREN COOK	270 CPA	1, 2, 3
EF-6-1	ADOPTION DOG BUILDING 2	8000	1.00	844	BELT	CW	UBD	GRAVITY	2.42	3	208	3	EC				5000	720	1/M200	LOREN COOK	270 CPA	1, 2, 3
EF-7-1	ADOPTION DOG BUILDING 3	8000	1.00	844	BELT	CW	UBD	GRAVITY	2.42	3	208	3	EC				5000	720	1/M200	LOREN COOK	270 CPA	1, 2, 3
EF-8-1	STRAY DOG BUILDING	8000	1.00	844	BELT	CW	UBD	GRAVITY	2.42	3	208	3	EC				5000	720	1/M200	LOREN COOK	270 CPA	1, 2, 3
EF-9-1	SUPPORT BUILDING	7500	1.00	812	BELT	CW	UBD	GRAVITY	216	3	208	3	EC				5000	600	2/M200	LOREN COOK	270 CPA	1, 3
EF-9-2	SUPPORT BUILDING	1200	0.25	529	BELT	N/A	IN-LINE	GRAVITY	0.15	0.167	120	1	EC				5000	100	3/M200	LOREN COOK	DB-10	
EF-9-3	SUPPORT BUILDING	1200	0.25	529	BELT	N/A	IN-LINE	GRAVITY	0.15	0.167	120	1	EC				5000	100	3/M200	LOREN COOK	DB-10	

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GARY W. MILLER
No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

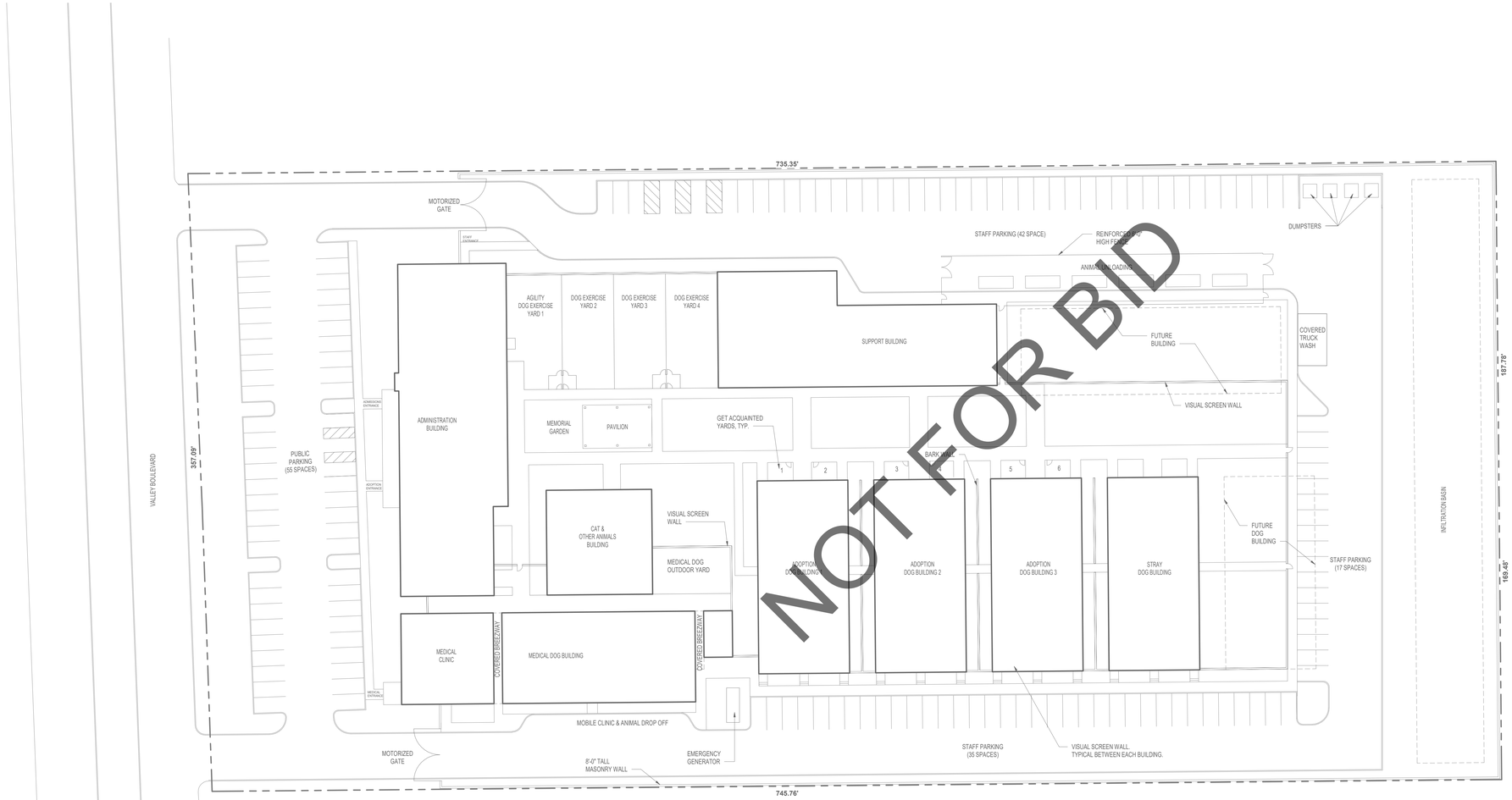
sheet name

SCHEDULES

sheet number

M-101

Sheet Of Sheets



1 **MECHANICAL SITE PLAN**
1" = 30'-0"

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initials	date	phase

revisions/addenda

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SAN BERNARDINO COUNTY

project information

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MECHANICAL SITE PLAN

sheet number

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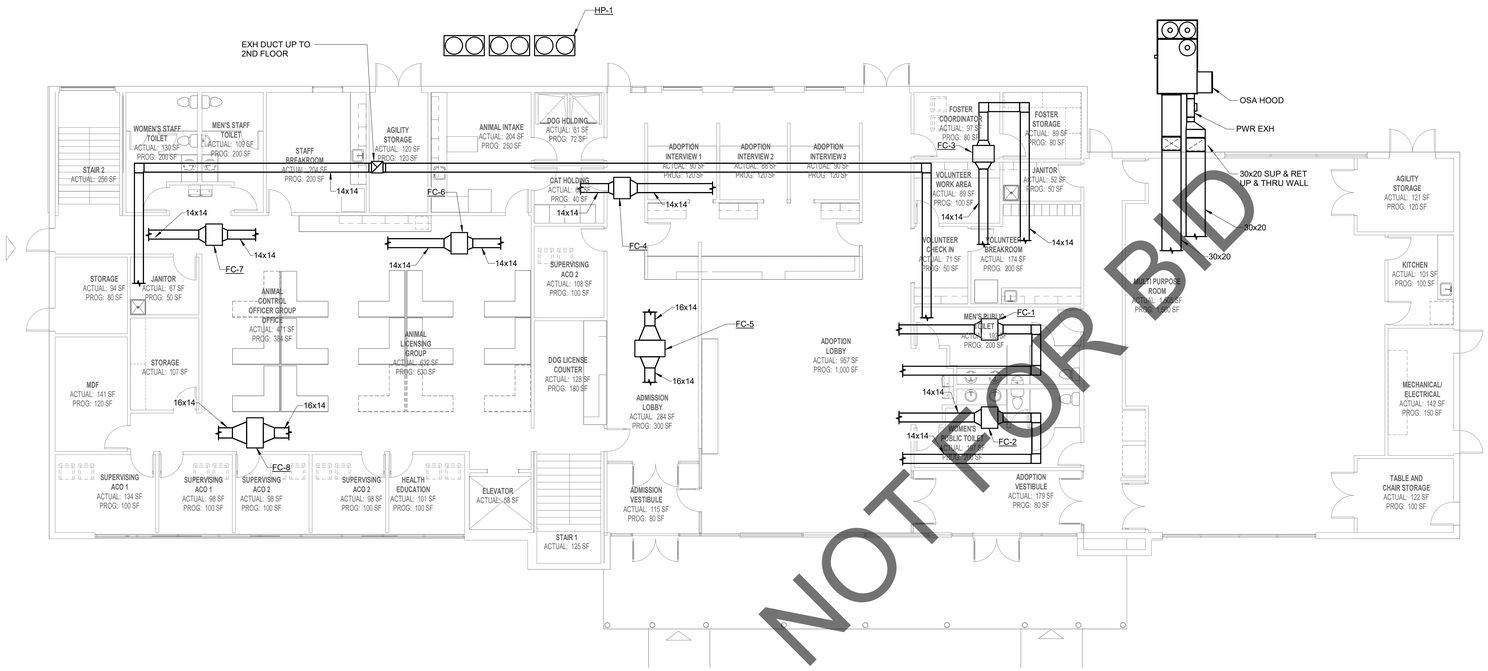

1 ADMINISTRATION BUILDING MECHANICAL FIRST FLOOR PLAN

1/8" = 1'-0"

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sheet name

ADMINISTRATION BUILDING MECHANICAL FIRST FLOOR PLAN

sheet number

MA-101

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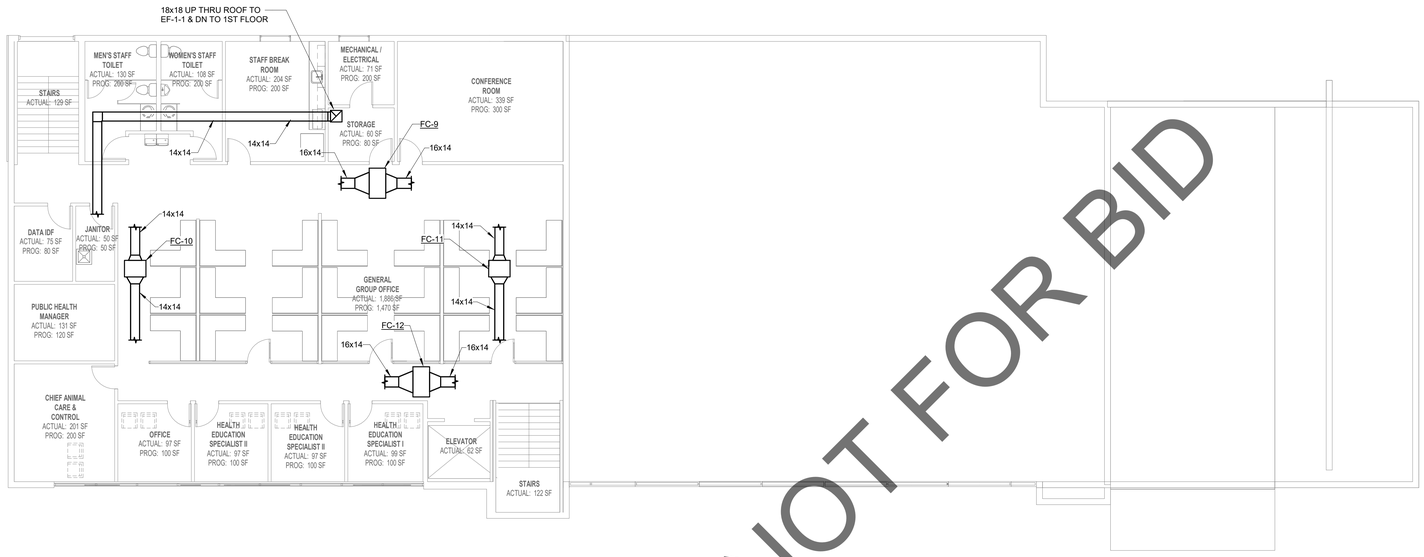

1 ADMINISTRATION BUILDING MECHANICAL SECOND FLOOR PLAN

1/8" = 1'-0"

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ADMINISTRATION BUILDING MECHANICAL SECOND FLOOR PLAN

sheet number

MA-102

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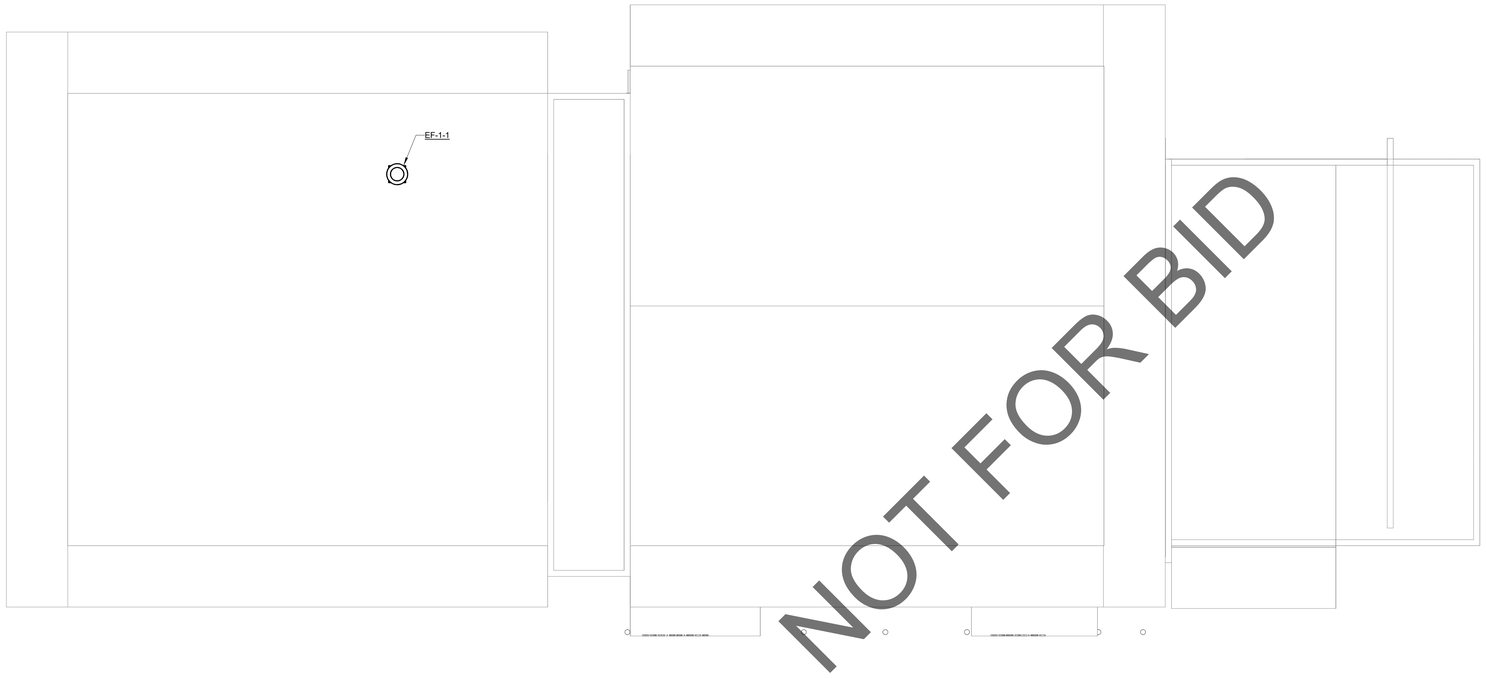

1 ADMINISTRATION BUILDING MECHANICAL ROOF PLAN

1/8" = 1'-0"

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MA-103

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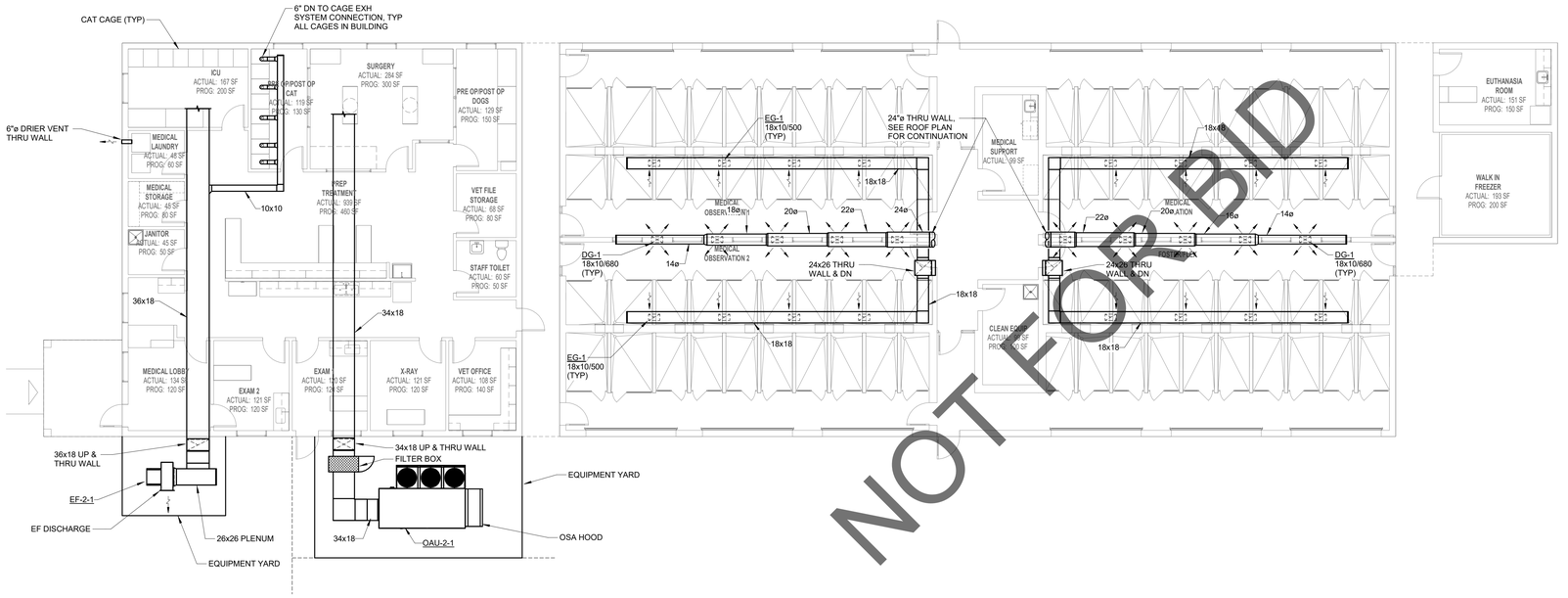

1 MEDICAL CLINIC MECHANICAL FLOOR PLAN

1/8" = 1'-0"

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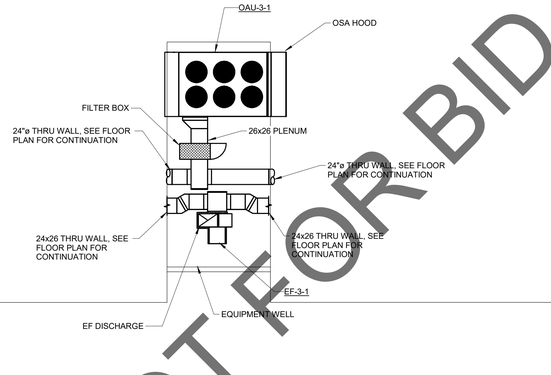
MEDICAL CLINIC MECHANICAL FLOOR PLAN

sheet number

MBC-101

Sheet Of Sheets



1 MEDICAL CLINIC MECHANICAL ROOF PLAN

1/8" = 1'-0"

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Issue Date:	06/01/23

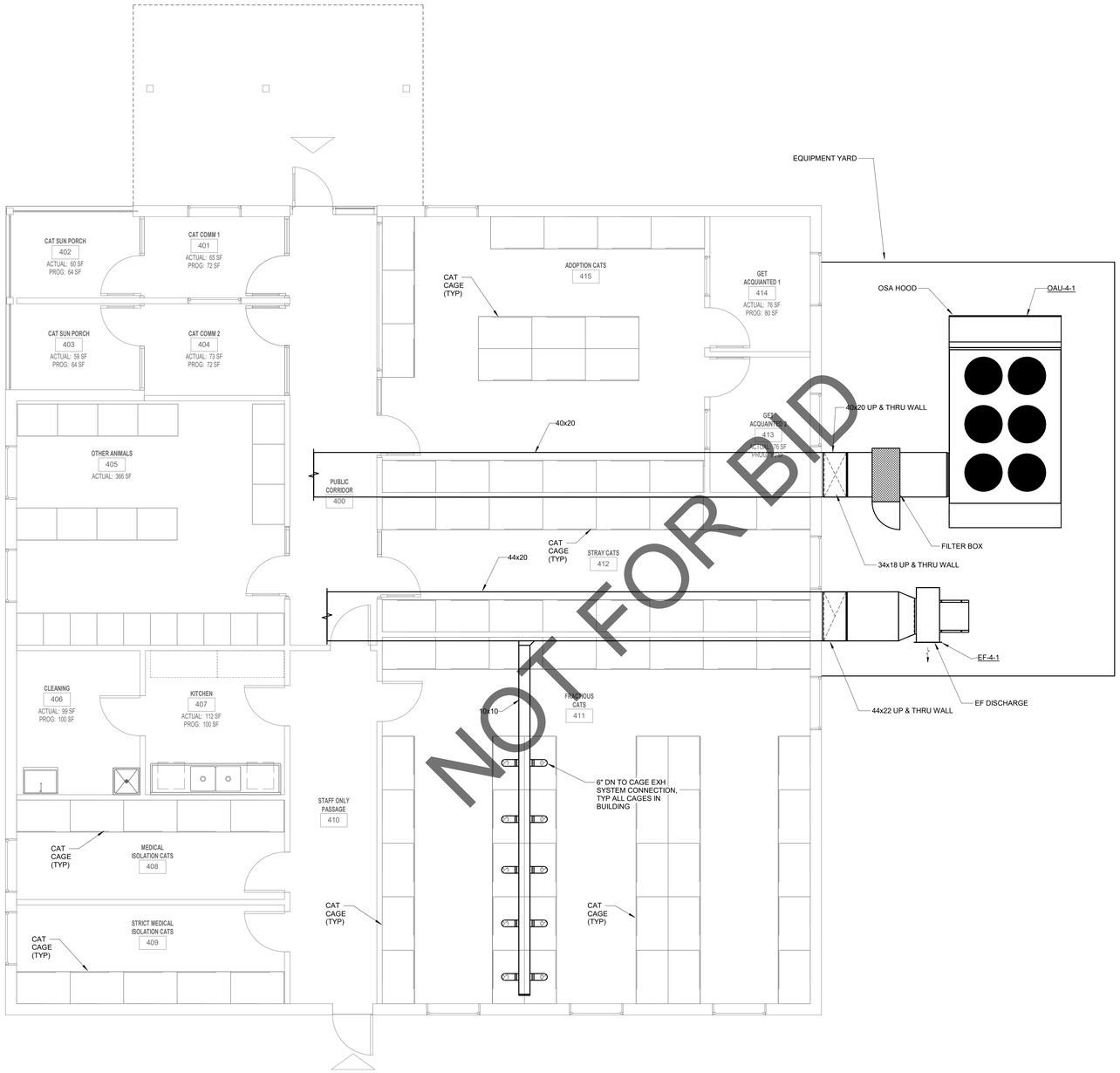
sheet name

MEDICAL CLINIC MECHANICAL ROOF PLAN

sheet number

MBC-102

Sheet Of Sheets



NORTH

1 **CAT & OTHER ANIMALS BUILDING MECHANICAL FLOOR PLAN**
1/4" = 1'-0"

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revisions/addenda

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project information

Project Number:	1227
Drawn By:	Author
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Issue Date:	06/01/23

sheet name
CAT & OTHER ANIMALS BUILDING MECHANICAL FLOOR PLAN

sheet number
MD-101

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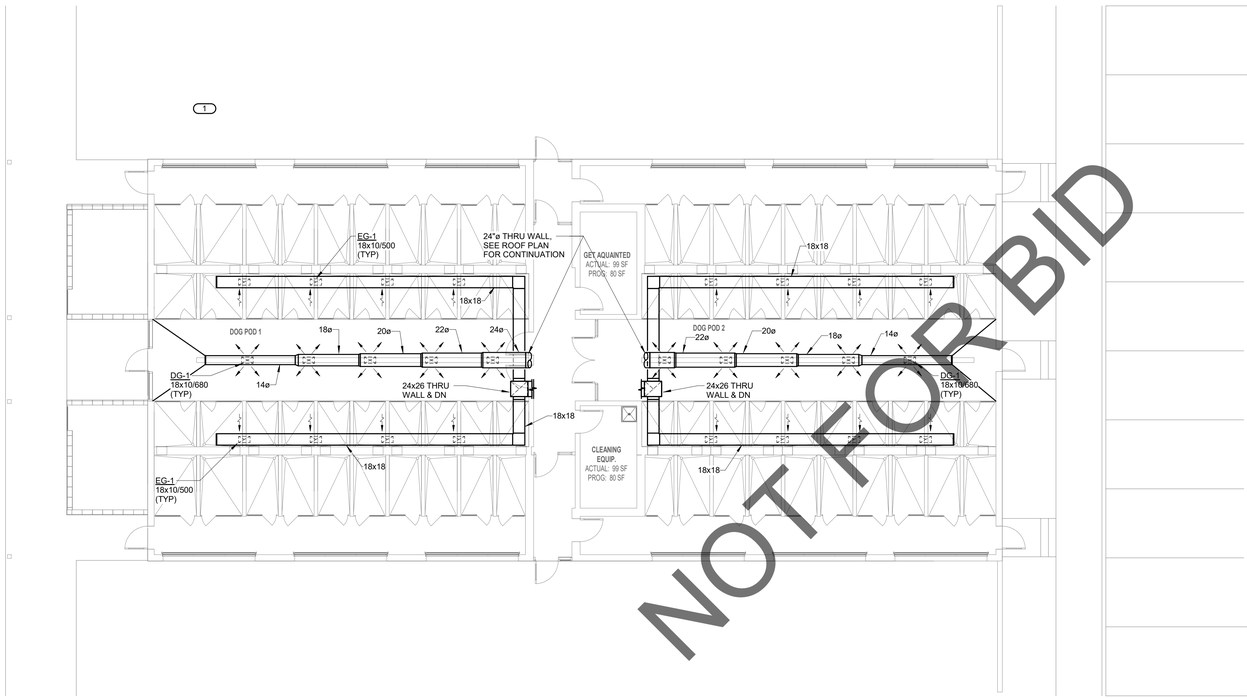

NORTH

1 ADOPTION DOG BUILDING 1 MECHANICAL FLOOR PLAN

1/8" = 1'-0"

KEY NOTES (#)

1. ALL ADOPTION BUILDINGS AND STRAY DOG BUILDINGS HAVE TYPICAL PLUMBING LAYPOUTS TO ADOPTION DOG BUILDING 1.

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ADOPTION DOG BUILDING 1 MECHANICAL FLOOR PLAN

sheet number

ME-101

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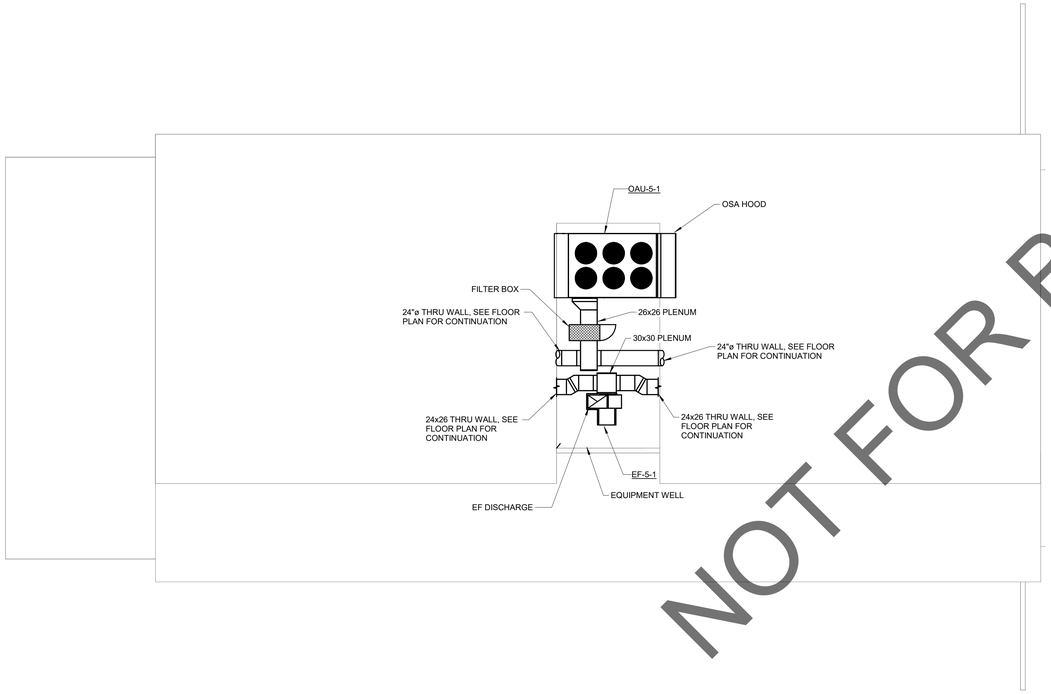

1 ADOPTION DOG BUILDING 1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

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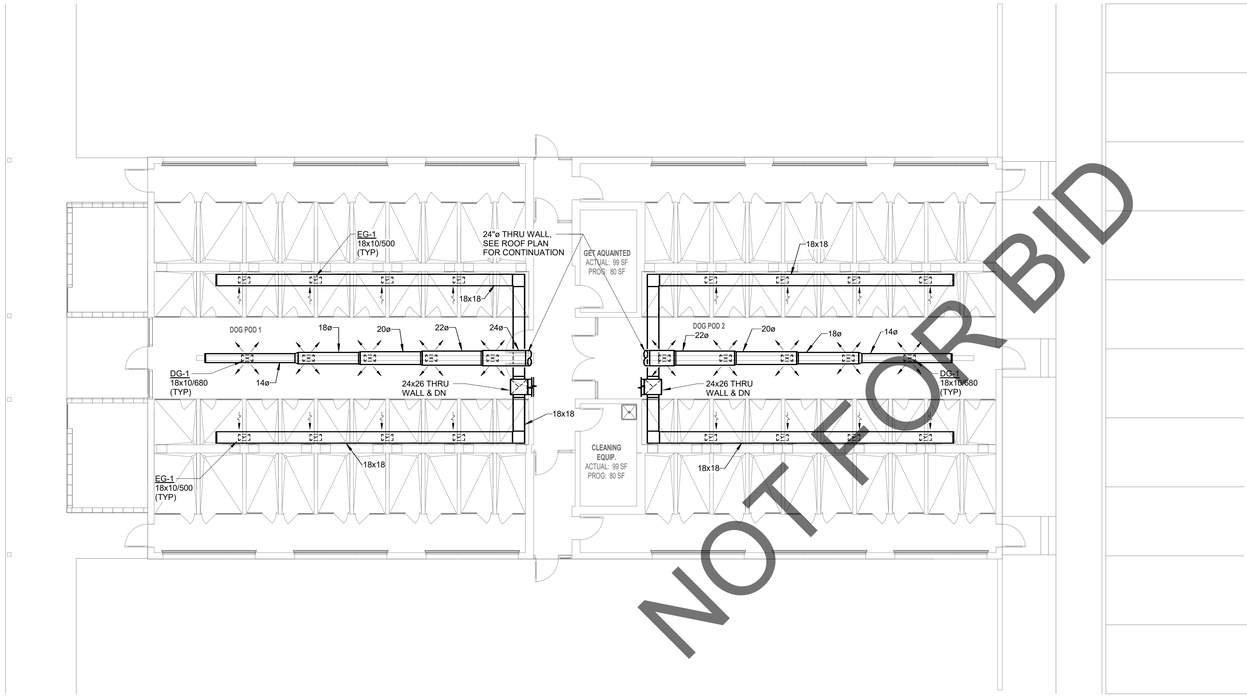
ADOPTION DOG BUILDING 1 MECHANICAL ROOF PLAN

sheet number

ME-102

Sheet Of Sheets



1 ADOPTION DOG BUILDING 2 MECHANICAL FLOOR PLAN

1/8" = 1'-0"

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ADOPTION DOG BUILDING 2 MECHANICAL FLOOR PLAN

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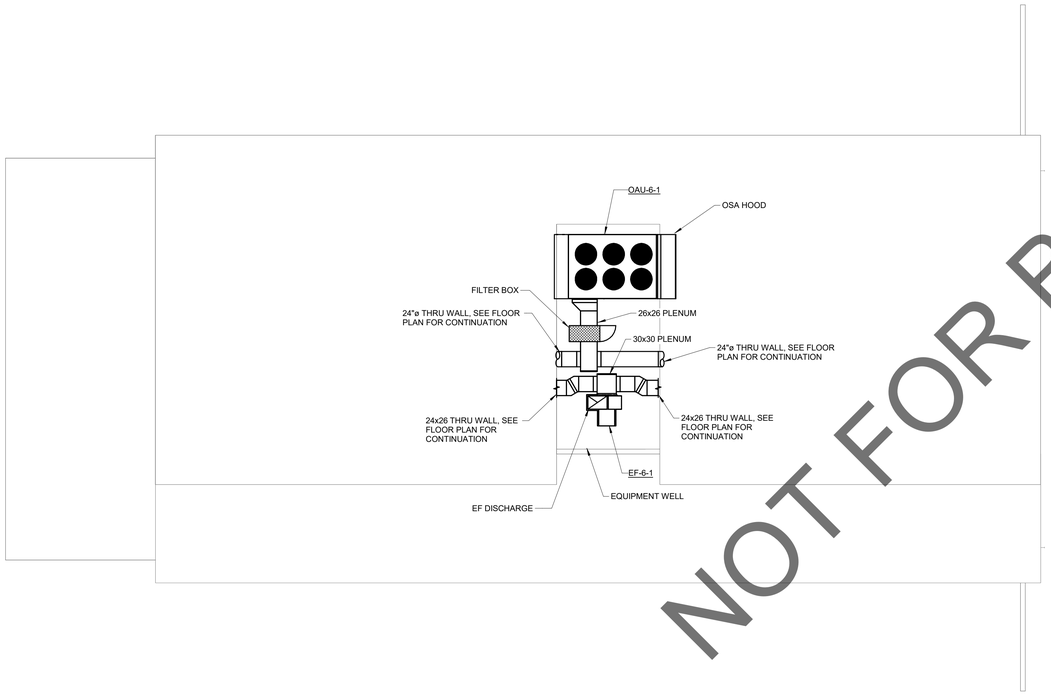

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1 **ADOPTION DOG BUILDING 2 MECHANICAL ROOF PLAN**
1/8" = 1'-0"

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ADOPTION DOG BUILDING 2 MECHANICAL ROOF PLAN

sheet number

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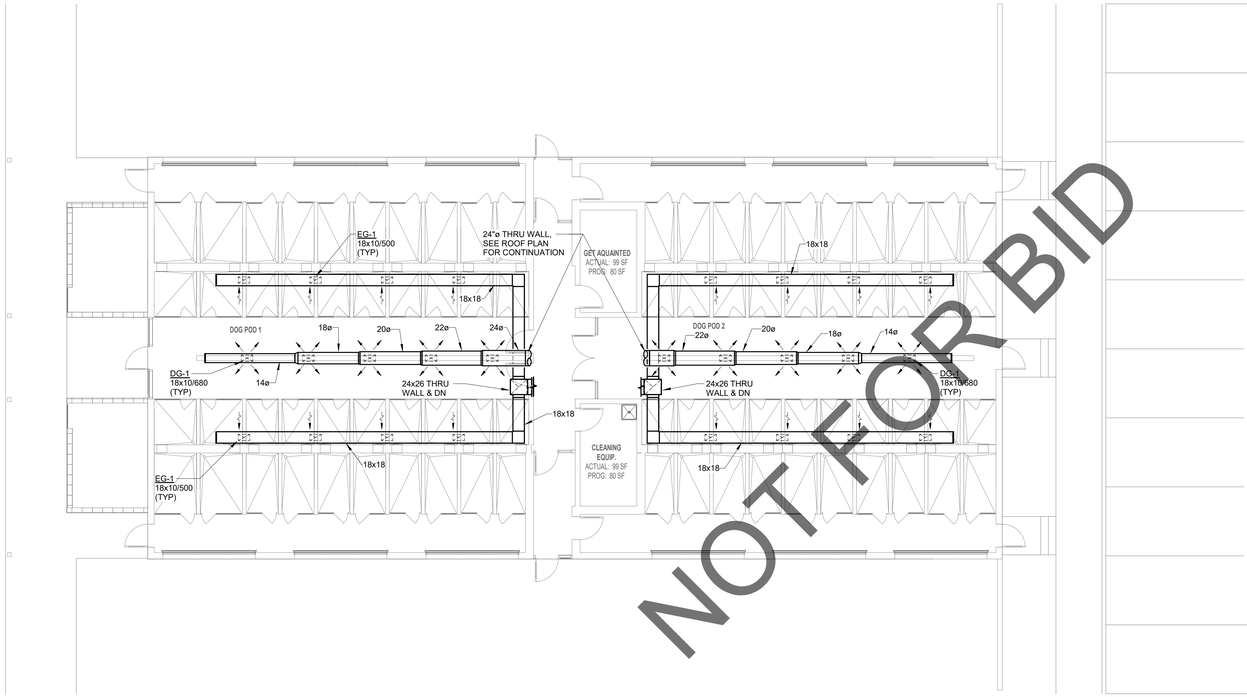

1 **ADOPTION DOG BUILDING 3 MECHANICAL FLOOR PLAN**
1/8" = 1'-0"

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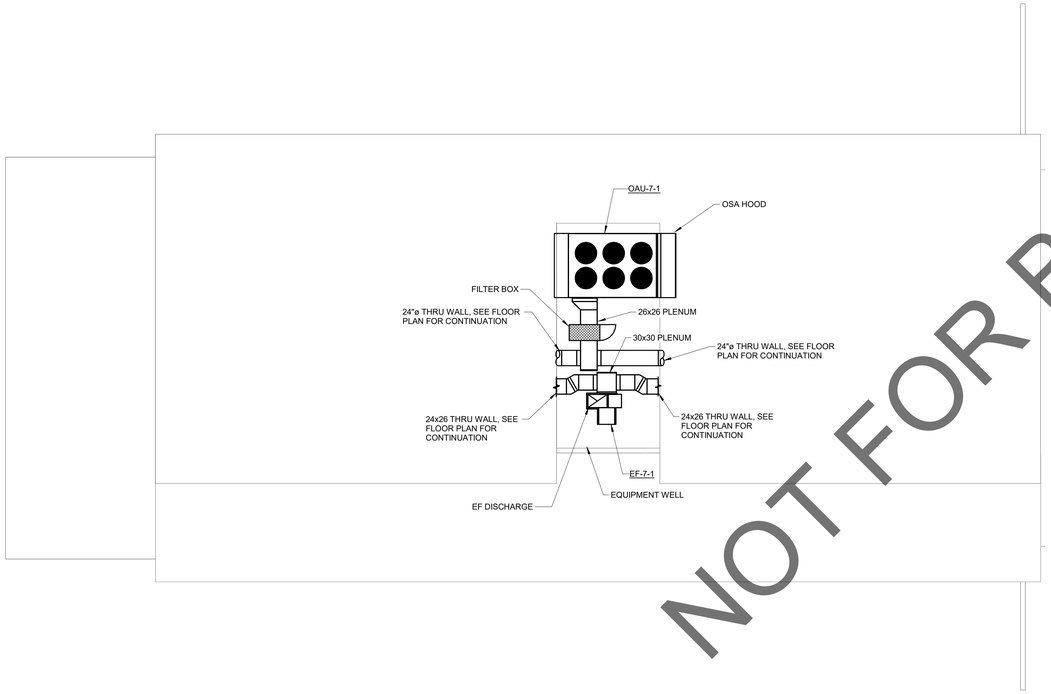

1 ADOPTION DOG BUILDING 3 MECHANICAL ROOF PLAN

1/8" = 1'-0"

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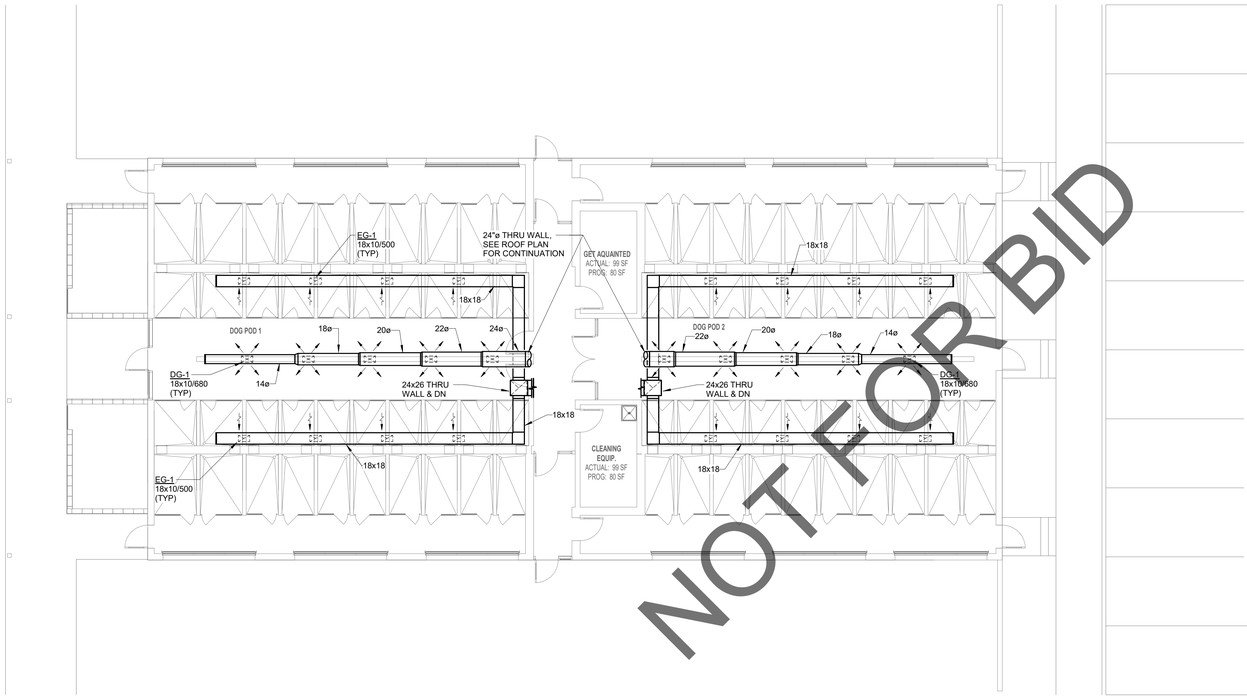

1 **STRAY DOG BUILDING MECHANICAL FLOOR PLAN**
1/8" = 1'-0"

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REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

IMEG
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REF. SCALE IN INCHES

PROJECT #22007569.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

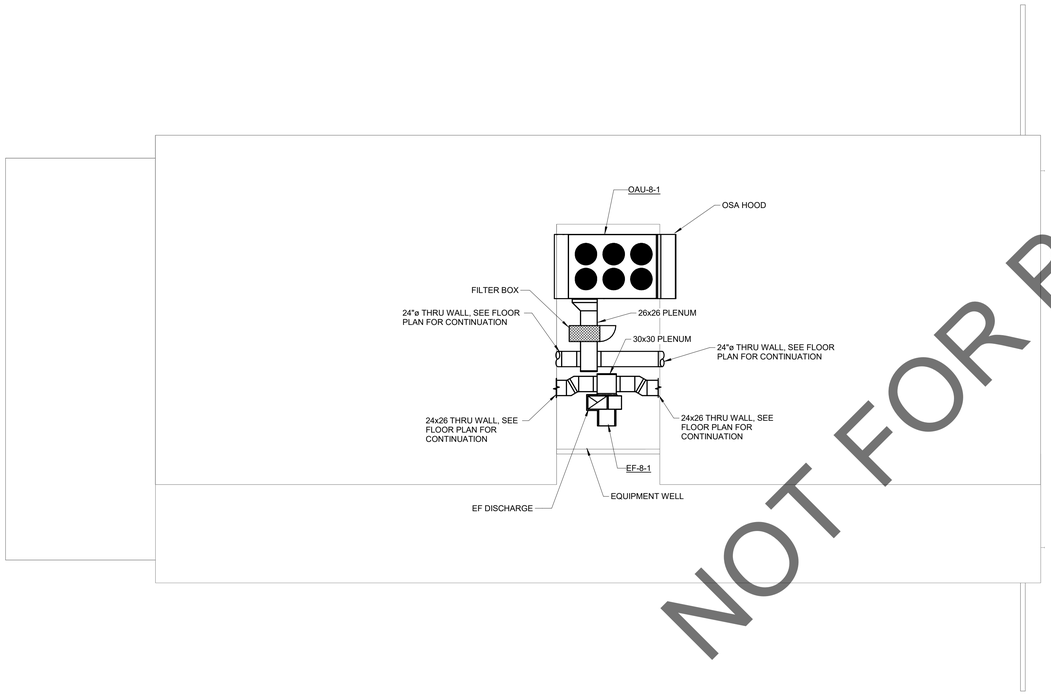
sheet name

STRAY DOG BUILDING MECHANICAL FLOOR PLAN

sheet number

MH-101

Sheet Of Sheets



1 **STRAY DOG BUILDING MECHANICAL ROOF PLAN**
1/8" = 1'-0"

MILLER
architecture
interiors
planning

"Shelter Planners of America"

1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com

LICENSED ARCHITECT
GARY W. MILLER
No. C14635
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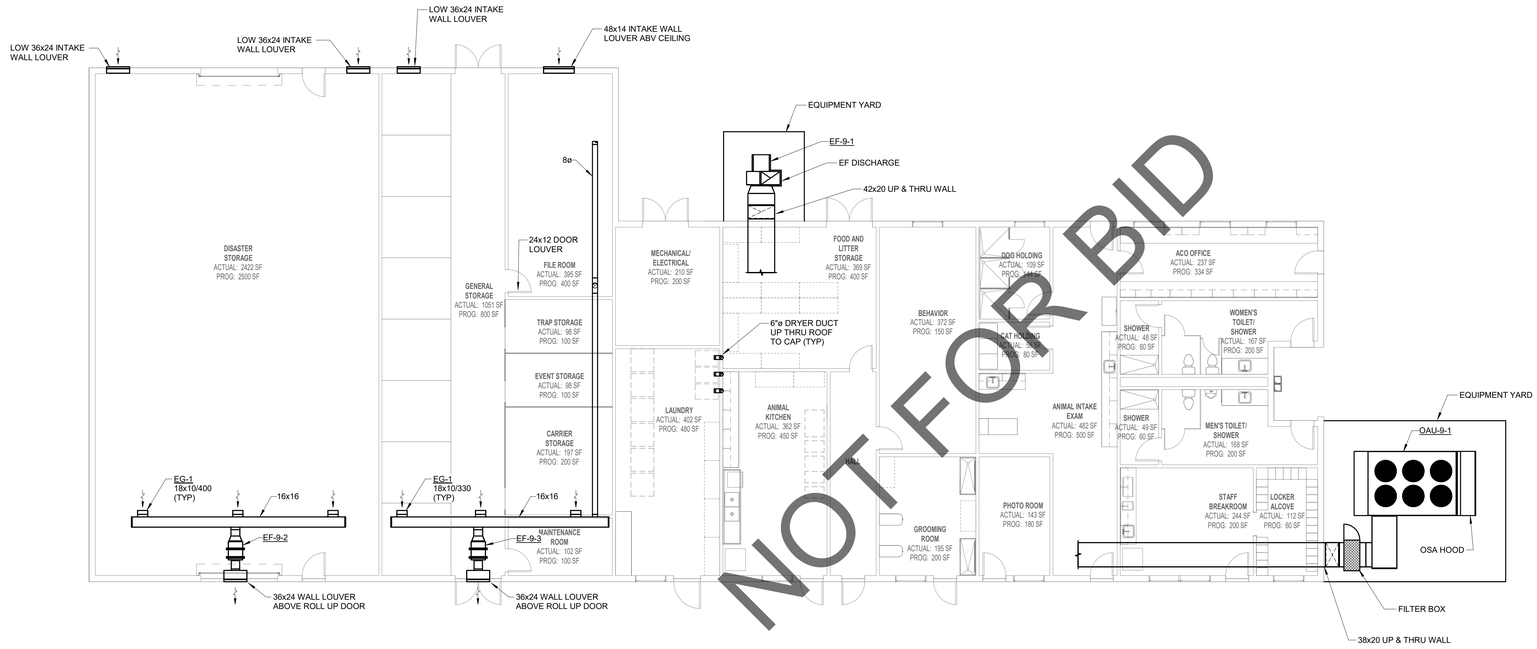
STRAY DOG BUILDING MECHANICAL ROOF PLAN

sheet number

MH-102

Sheet Of Sheets



1 SUPPORT BUILDING MECHANICAL FLOOR PLAN

1/8" = 1'-0"

NORTH

MILLER
architecture
interiors
planning

"Shelter Planners of America"

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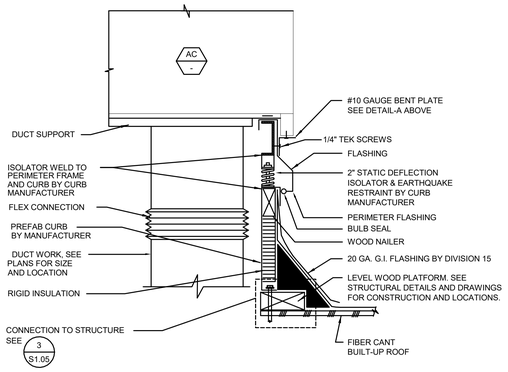
SUPPORT BUILDING MECHANICAL FLOOR PLAN

sheet number

MI-101

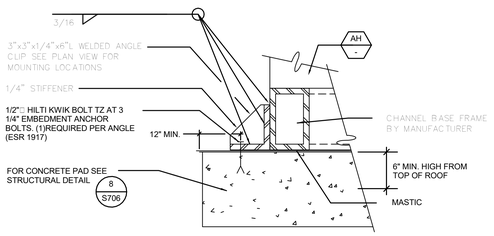
Sheet Of Sheets



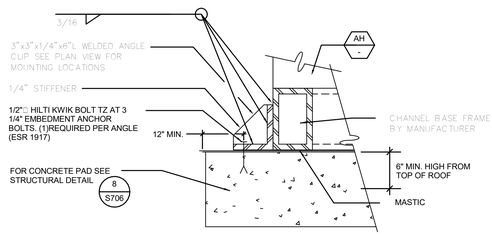
NOTES:

1. FILL ENTIRE VOID SPACE IN ROOF CURB WITH BATT. INSULATION.
2. SEE STRUCTURAL DETAILS FOR FRAMING AROUND ROOF OPENINGS.

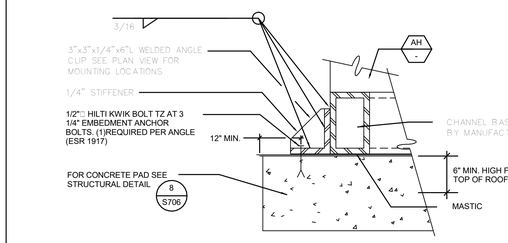
ROOFTOP UNIT ON ROOF MOUNTING | NTS | 1



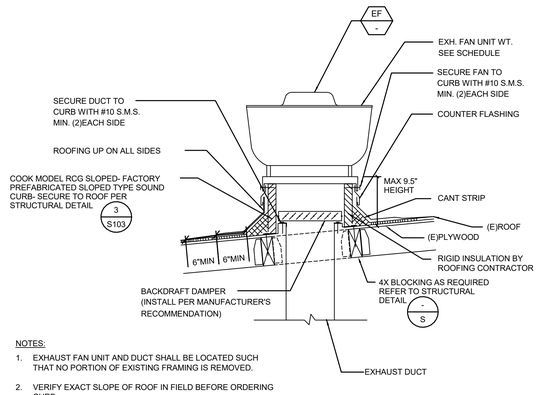
PACKAGE UNIT ON CONCRETE PAD | NTS | 2



VRF CONDENSER ON CONCRETE PAD | NTS | 3



UTILITY SET EXHAUST FAN ON CONCRETE PAD | NTS | 4



NOTES:

1. EXHAUST FAN UNIT AND DUCT SHALL BE LOCATED SUCH THAT NO PORTION OF EXISTING FRAMING IS REMOVED.
2. VERIFY EXACT SLOPE OF ROOF IN FIELD BEFORE ORDERING CURB.

CURB MOUNTED EXHAUST FAN ON ROOF | NTS | 5

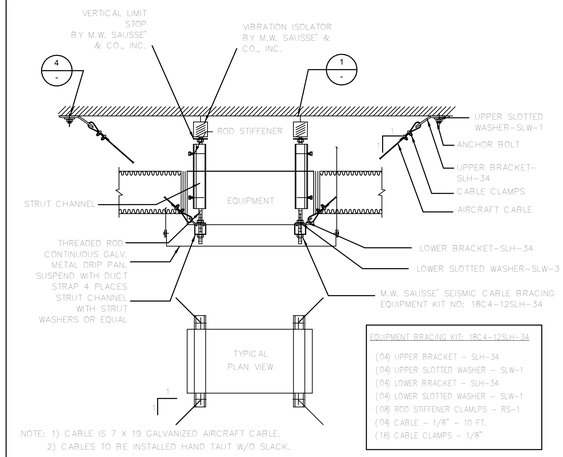
NOTE: OUTLET VELOCITY IS 2000 FEET PER MINUTE

UTILITY SET EXHAUST FAN ON ROOF | NTS | 6

NOTES:

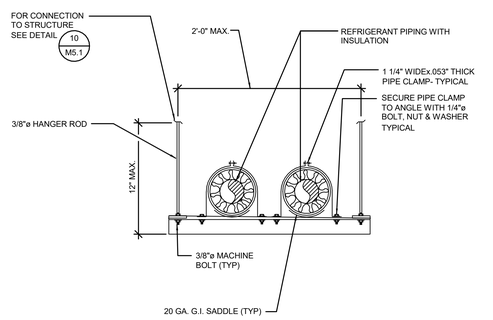
1. ALL EXHAUST OUTLETS SHALL BE 10'-0" FROM ANY AIR INTAKES.
2. SEE MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

IN-LINE EXHAUST FAN MOUNTING | NTS | 7

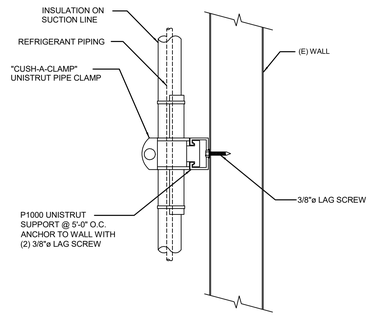


NOTE: 1) CABLE IS 7 X 19 GALVANIZED AIRCRAFT CABLE.
2) CABLES TO BE INSTALLED HAND TAUT W/O SLACK.

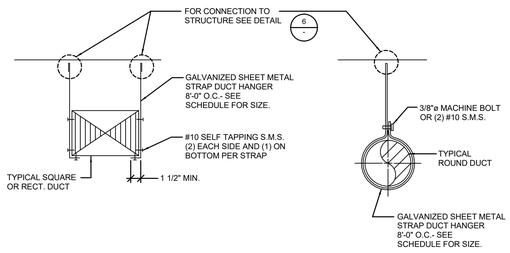
FAN COIL MOUNTING | NTS | 8



REFRIGERANT PIPING SUPPORT DETAIL | NTS | 9



REFRIGERANT PIPE SUPPORT WALL | NTS | 10



RECTANGULAR DUCT			ROUND DUCT		
MAX. OF HALF OF DUCT PERIMETER	HANGER STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER	HANGER STRAP	MAX. LOAD EACH HANGER/LBS.
P/2 = 30"	1"x 22 GA.	100	UP TO 24"	1"x 22 GA.	100
P/2 < 59"	1"x 20 GA.	100	25" TO 33"	1"x 20 GA.	100

DUCTWORK SUPPORT | NTS | 11

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MECHANICAL DETAILS

sheet number

M-200

Sheet Of Sheets

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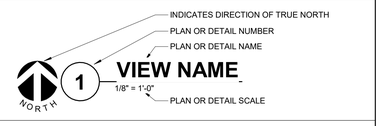

VIEW KEY

NAME ← LEVEL NAME
10'-0" ← HEIGHT ABOVE PROJECT 0'-0"

(1) ← INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E	TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
TAG	UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
⊕	INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ME COMPONENT ANCHORAGE NOTES:

1. EQUIPMENT ANCHORAGE NOTE:

   ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CDC, SECTION 1616A.18 THROUGH 1616A.1.26 AND ASCE 7-16 CHAPTERS 13,26, AND 30.

   1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARED WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RETRAINED IN A MANNER APPROVED BY DSA.

   THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED DOT THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTES ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL DIRECTIONS.

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF STRUCTURAL ENGINEER DELEGATE RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

2. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE.

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED INS ASCE 7-16 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CDC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE STAR OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

   MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP)M ELECTRICAL DISTRIBUTION SYSTEMS (E):

   MP [] MD [] PP [] E [] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

   MP [] MD [] PP []OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPN#) #__________.

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	----
MECHANICAL	ANDREW CLOUD
ELECTRICAL	VICTOR MENOR
TECHNOLOGY	JORDAN DOLZADELLI

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—AV—	ACID VENT
—AW—	ACID WASTE
—CA—	COMPRESSED AIR
—CW—	COLD WATER - POTABLE
—D—	DRAIN
—DI—	DEIONIZED WATER
—DT—	DRAIN TILE
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—G—	NATURAL GAS
—GRV—	GAS REGULATOR VENT
—GSAN—	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
—GV—	GREASE VENT
—HW—	HOT WATER - POTABLE
—HWC—	HOT WATER CIRCULATING - POTABLE
—HW140—	HOT WATER - POTABLE NUMBER INDICATES TEMP
—HWC140—	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
—IA—	INSTRUMENT AIR
—MA—	MEDICAL AIR
—MPG—	MEDIUM PRESSURE GAS
—MV—	MEDICAL VACUUM
—N—	NITROGEN
—NCW—	NON-POTABLE COLD WATER
—NHW—	NON-POTABLE HOT WATER
—NO—	NITROUS OXIDE
—O—	OXYGEN
—P—	PROPANE GAS
—PD—	PUMPED DISCHARGE
—PW—	PURE WATER
—RO—	REVERSE OSMOSIS WATER
—SAN—	SANITARY DRAINAGE
—SCW—	SOFT COLD WATER
—SHW—	SOFT HOT WATER
—ST(1,000)—	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
—STS—	STORM DRAINAGE (SECONDARY)
—STW—	SOFT TEMPERED WATER
—TW—	TEMPERED WATER
—V—	VENT
—VAC—	LAB VACUUM
—W—	SERVICE WATER - POTABLE
—WAGD—	WASTE ANETHESIA GAS DISPOSAL
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL / SIZE (ROOF SQ. FT.)
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
GPM	BALANCING VALVE (NUMBER INDICATES GPM)
	CHECK VALVE
	BACKFLOW PREVENTER
	SOLENOID VALVE
	SAFETY/RELIEF VALVE
	VACUUM BREAKER
(P)	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
T	TEMPERATURE SENSOR WITH WELL
(T)	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PUMP
(M)	METER
	ALIGNMENT GUIDE
	PIPE ANCHOR
EJ-# (#.#")	EXPANSION JOINT #.#" IS THE EXPANSION TRAVEL INCHES
⊕	AIR ADMITTANCE VALVE

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UON	UNLESS OTHERWISE NOTED
YCO	YARD CLEANOUT

PLUMBING SHEET INDEX

P-100	PLUMBING COVERSHEET
P-101	SCHEDULES
P-102	CALCULATIONS
PS-101	PLUMBING SITE PLAN
PA-101	ADMINISTRATION BUILDING PLUMBING UNDERFLOOR PLAN
PA-102	ADMINISTRATION BUILDING PLUMBING FIRST FLOOR PLAN
PA-103	ADMINISTRATION BUILDING PLUMBING SECOND FLOOR PLAN
PA-104	ADMINISTRATION BUILDING PLUMBING ROOF PLAN
PBC-101	MEDICAL CLINIC PLUMBING UNDERFLOOR PLAN
PBC-102	MEDICAL CLINIC PLUMBING FLOOR PLAN
PBC-103	MEDICAL CLINIC PLUMBING ROOF PLAN
PD-101	CAT & OTHER ANIMALS BUILDING PLUMBING UNDERFLOOR PLAN
PD-102	CAT & OTHER ANIMALS BUILDING PLUMBING FLOOR PLAN
PD-103	CAT & OTHER ANIMALS BUILDING PLUMBING ROOF PLAN
PE-101	ADOPTION DOG BUILDING 1 PLUMBING UNDERFLOOR PLAN
PE-102	ADOPTION DOG BUILDING 1 PLUMBING FLOOR PLAN
PE-103	ADOPTION DOG BUILDING 1 PLUMBING ROOF PLAN
PF-101	ADOPTION DOG BUILDING 2 PLUMBING UNDERFLOOR PLAN
PF-102	ADOPTION DOG BUILDING 2 PLUMBING FLOOR PLAN
PF-103	ADOPTION DOG BUILDING 2 PLUMBING ROOF PLAN
PG-101	ADOPTION DOG BUILDING 3 PLUMBING UNDERFLOOR PLAN
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PG-103	ADOPTION DOG BUILDING 3 PLUMBING ROOF PLAN
PH-101	STRAY DOG BUILDING PLUMBING UNDERFLOOR PLAN
PH-102	STRAY DOG BUILDING PLUMBING FLOOR PLAN
PH-103	STRAY DOG BUILDING PLUMBING ROOF PLAN
PI-101	SUPPORT BUILDING PLUMBING UNDERFLOOR PLAN
PI-102	SUPPORT BUILDING PLUMBING FLOOR PLAN
PI-103	SUPPORT BUILDING PLUMBING ROOF PLAN
P-200	PLUMBING ENLARGED PLANS
P-201	PLUMBING ENLARGED PLANS
P-300	PLUMBING DETAILS
GRAND TOTAL: 32	

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. **[NTD: KEEP FOR WORK IN CONGESTED RENOVATIONS]**
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE **[GENERAL CONTRACTOR] [CONSTRUCTION MANAGER] [ARCHITECT/ENGINEER] [__________]** PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. **[NTD: KEEP FOR MULTI-STORY PROJECTS WITH LEVELS BELOW THAT ARE OUT OF PROJECT SCOPE]**
5. **[NTD CHOOSE AND EDIT THE APPROPRIATE ONE OF THE FOLLOWING TWO BELOW]** [THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING] [EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.]
6. THE **[GENERAL CONTRACTOR] [_________]** IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE **[GENERAL CONTRACTOR] [_________]** OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
11. **[NTD DETERMINE IF REQUIRED BY OWNER]** DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

[NTD: FOR PHASED PROJECTS ONLY]

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. REFER TO **[ARCHITECTURAL]** DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO **[CONSTRUCTION MANAGER'S/GENERAL CONTRACTOR'S/ARCHITECT'S]** INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

APPLICABLE CODES AND STANDARDS:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE (IBC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2020 NATIONAL ELECTRICAL CODE (NEC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE (IFC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2022 CALIFORNIA REFERENCES STANDARDS CODE
CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE
ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 PART 11

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES. **[NTD: INCLUDE FOR HOSPITAL/INPATIENT PROJECTS CONTAINING BATHROOM GROUPS WITHIN OCCUPANT ROOMS]**
9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. **[NTD: EDIT TO MATCH SCOPE]**
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL **[FLOOR,] WALL, [AND ROOF]** PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. **[PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.]**
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PROJECT ALTITUDE:	**0,000.00 FT. ABOVE SEA LEVEL**

NTD: DELETE THIS ITEM IF NOT REQUIRED BY PROJECT MANAGER

PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: [CPC-2019][UPC-2018]

INTERIOR:	
SANITARY WASTE:	1/4" PER FOOT
GREASE WASTE:	1/4" PER FOOT
STORM (GRAVITY):	1/8" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT
SANITARY AND GREASE VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: [IPC-2018]

INTERIOR:	
SANITARY WASTE:	≤2-1/2"ø=1/4" PER FOOT ≥3"ø = 1/8" PER FOOT ≥8"ø = 1/16" PER FOOT
GREASE WASTE:	1/4" PER FOOT
STORM (GRAVITY):	1/8" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT
SANITARY AND GREASE VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

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initials	date	phase

revisions/addenda

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ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

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PLUMBING
COVERSHEET

sheet number

P-100

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PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
CP-1		
DF-1		
FCO-1		
FD-1		
FS-#		
HR-1		
L-1		
L-2		
MB-1		
SK-1		
SK-2		
SK-3		
UR-1		
WC-1		
WC-2		
WCO-1		
WH-1		

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINUMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
DF-1	DRINKING FOUNTAIN	1/2"	-	1 1/2"	1 1/2"
DF-1	DRINKING FOUNTAIN	1/2"	-	1 1/2"	1 1/2"
FD-1	FLOOR DRAIN			3"	1 1/2"
FS-#	FLOOR SINK			3"	1 1/2"
L-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"
L-2	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"
MB-1	MOP BASIN	3/4"	3/4"	3"	1 1/2"
SK-1	SINK	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	SINK	1/2"	1/2"	1 1/2"	1 1/2"
SK-3	SINK	1/2"	1/2"	1 1/2"	1 1/2"
UR-1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"
WC-1	WATER CLOSET (ACCESSIBLE)	1 1/2"	-	4"	2"
WC-2	WATER CLOSET	1 1/2"	-	4"	2"

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No. C14635
REN. 9-30-23
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revisions/addenda

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SCHEDULES

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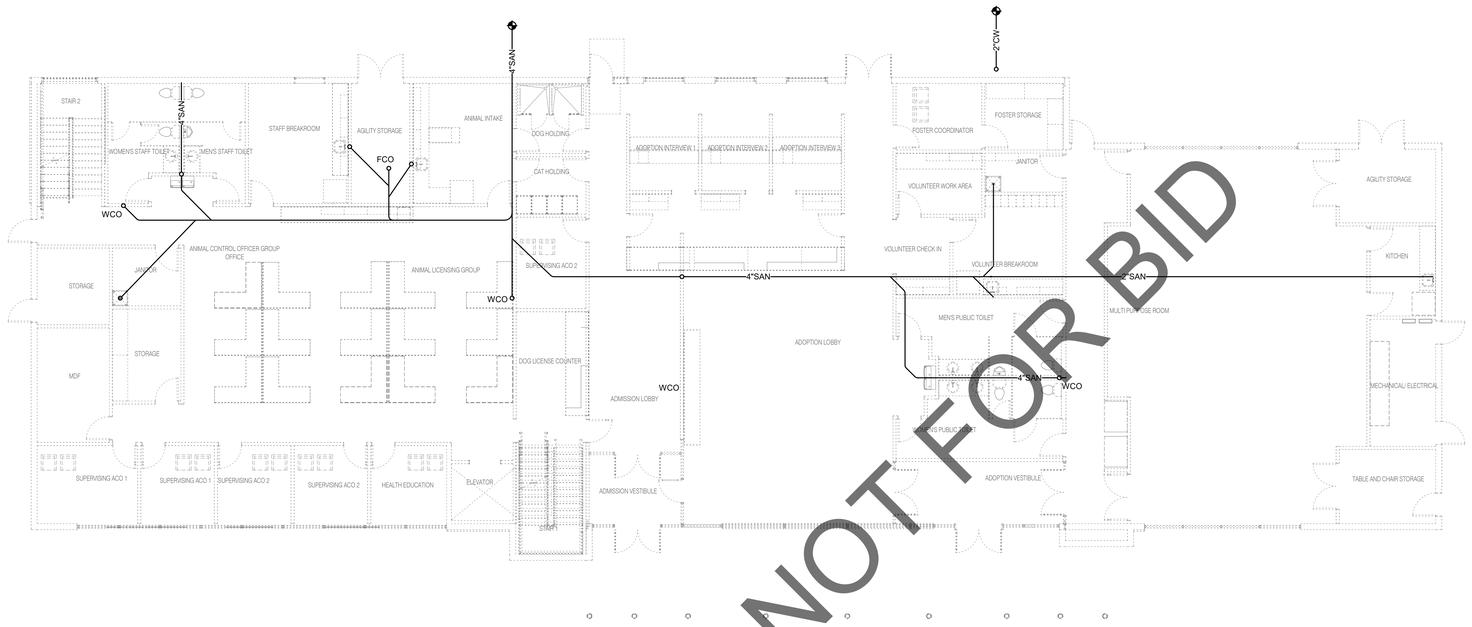

NORTH

1 **ADMINISTRATION BUILDING PLUMBING UNDERFLOOR PLAN**
1/8" = 1'-0"

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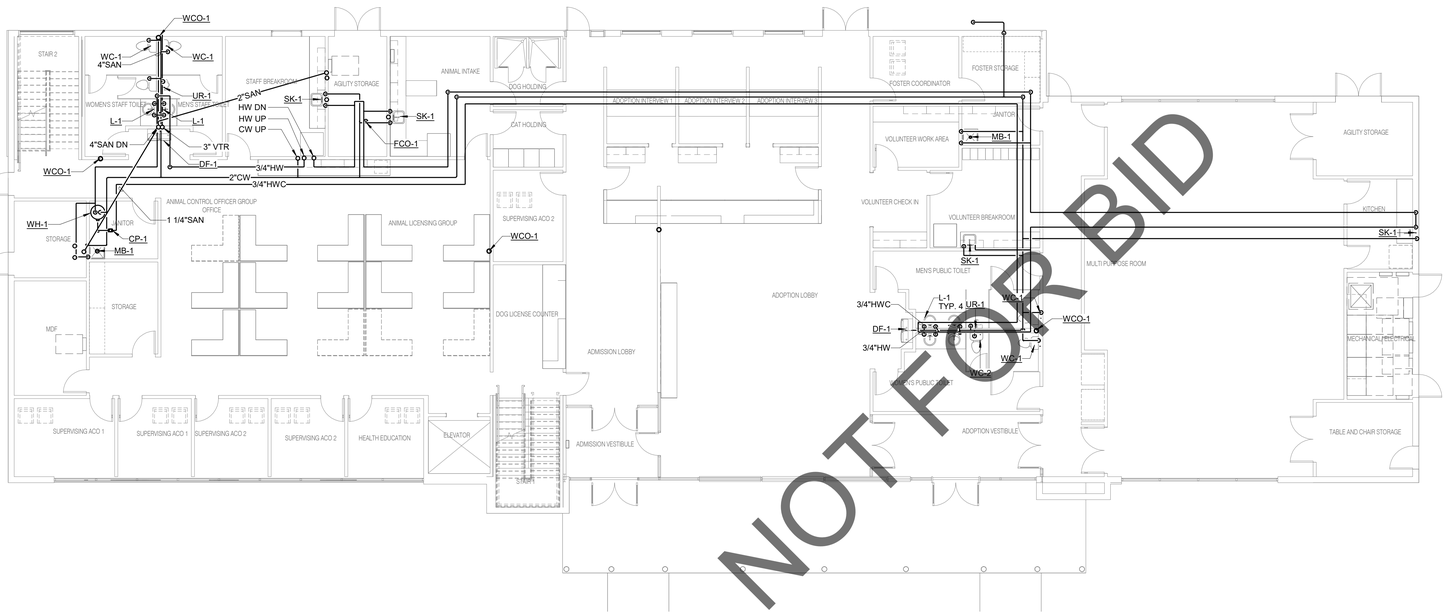

NORTH

1 **ADMINISTRATION BUILDING PLUMBING FIRST FLOOR PLAN**
1/8" = 1'-0"

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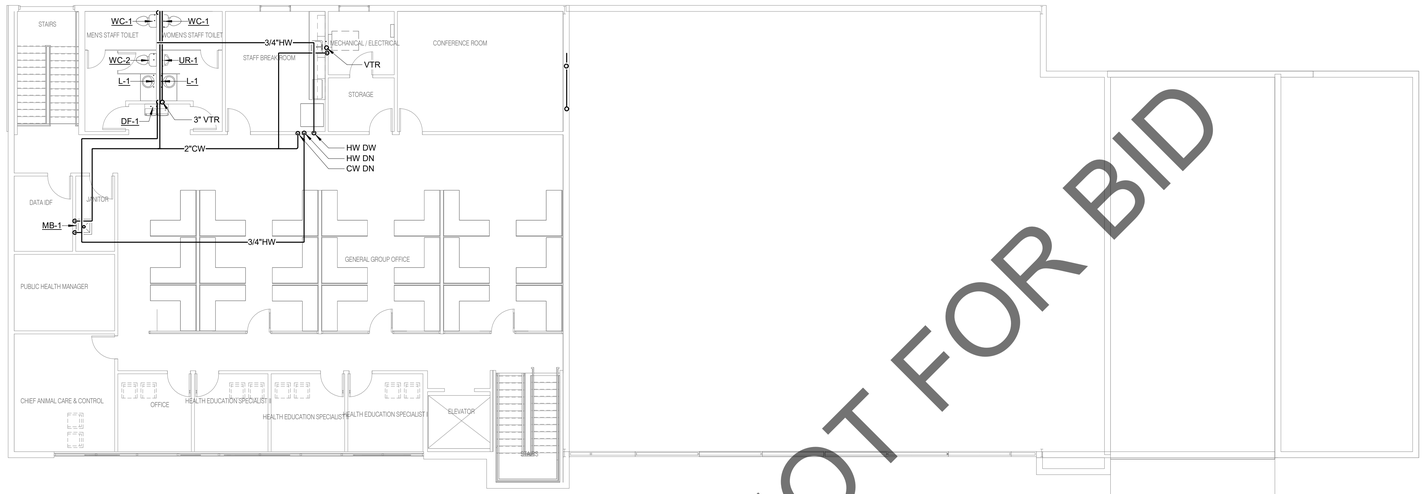

1 **ADMINISTRATION BUILDING PLUMBING SECOND FLOOR PLAN**
1/8" = 1'-0"

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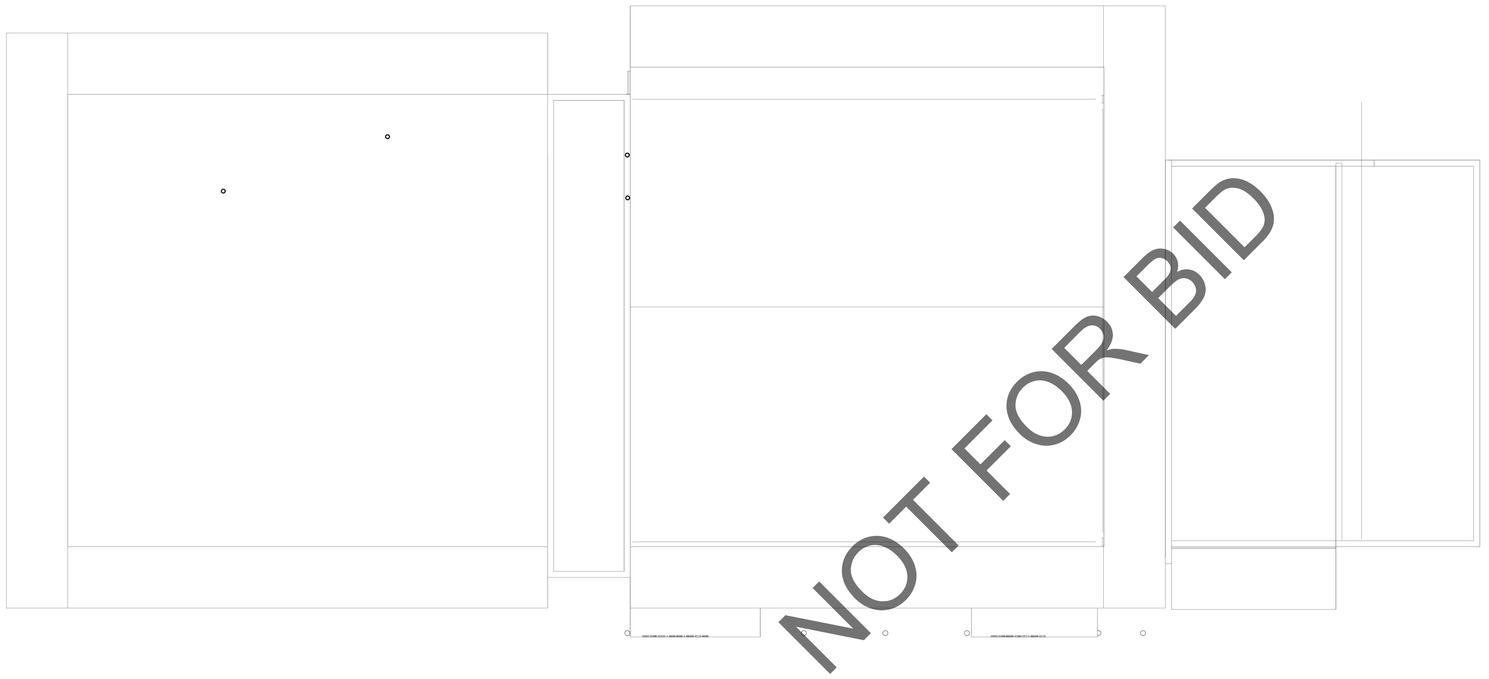

1 ADMINISTRATION BUILDING PLUMBING ROOF PLAN
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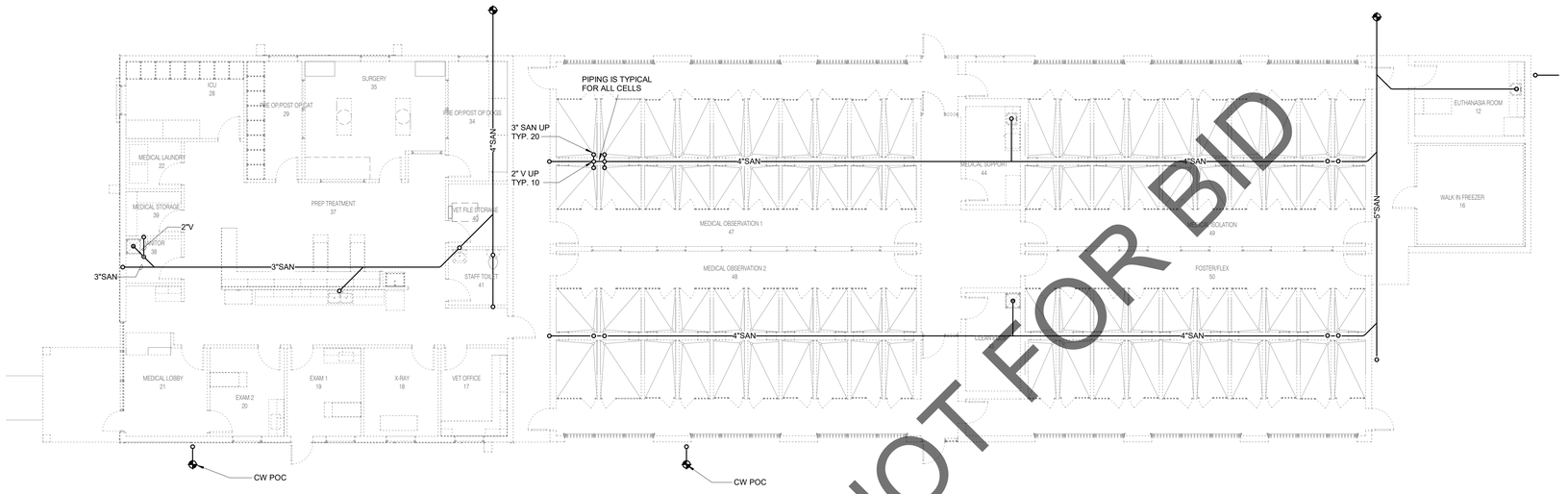

MEDICAL CLINIC PLUMBING UNDERFLOOR PLAN

1/8" = 1'-0"

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MEDICAL CLINIC PLUMBING UNDERFLOOR PLAN

sheet number

PBC-101

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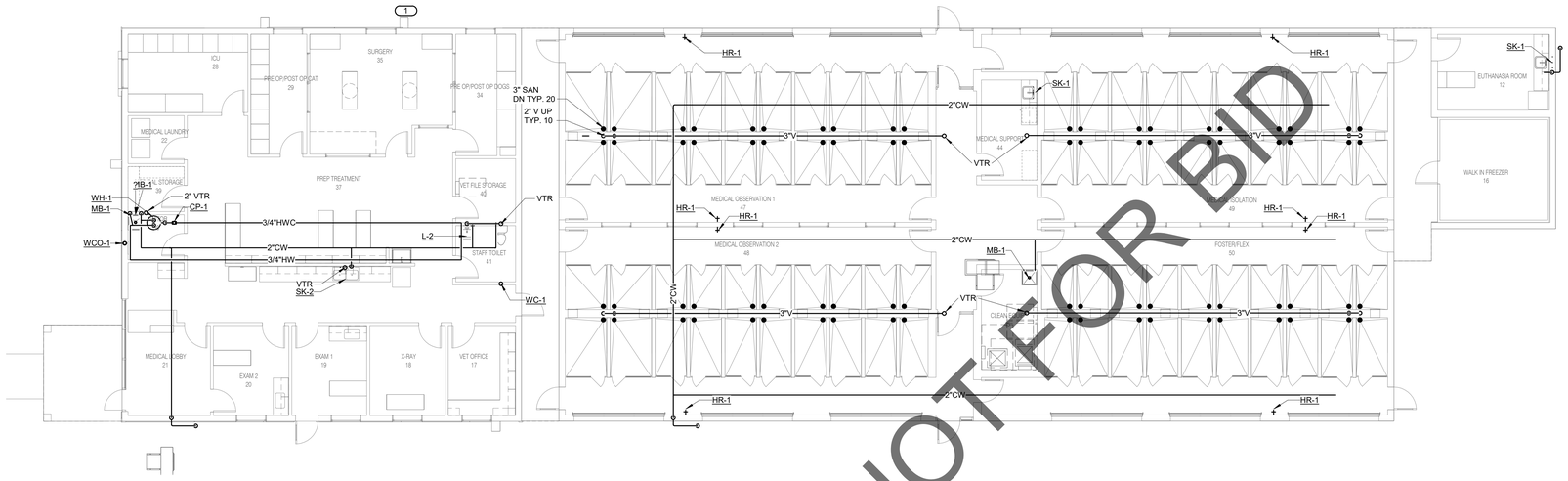

NOT FOR BID

1 MEDICAL CLINIC PLUMBING FLOOR PLAN
1/8" = 1'-0"

KEY NOTES #

1. ALL KENNELS SHALL RECEIVE CW CONNECTION FOR AUTOMATIC WATERING BOWLS.

MILLER
architecture
interiors
planning

"Shelter Planners of America"

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LICENSED ARCHITECT
GARY W. MILLER
No. C14635
REN. 9-30-23
STATE OF CALIFORNIA

owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

0 1 2 3
REF. SCALE IN INCHES
PROJECT #22007569.00

PRELIMINARY NOT FOR CONSTRUCTION

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	MB
Issue Date:	06/01/23

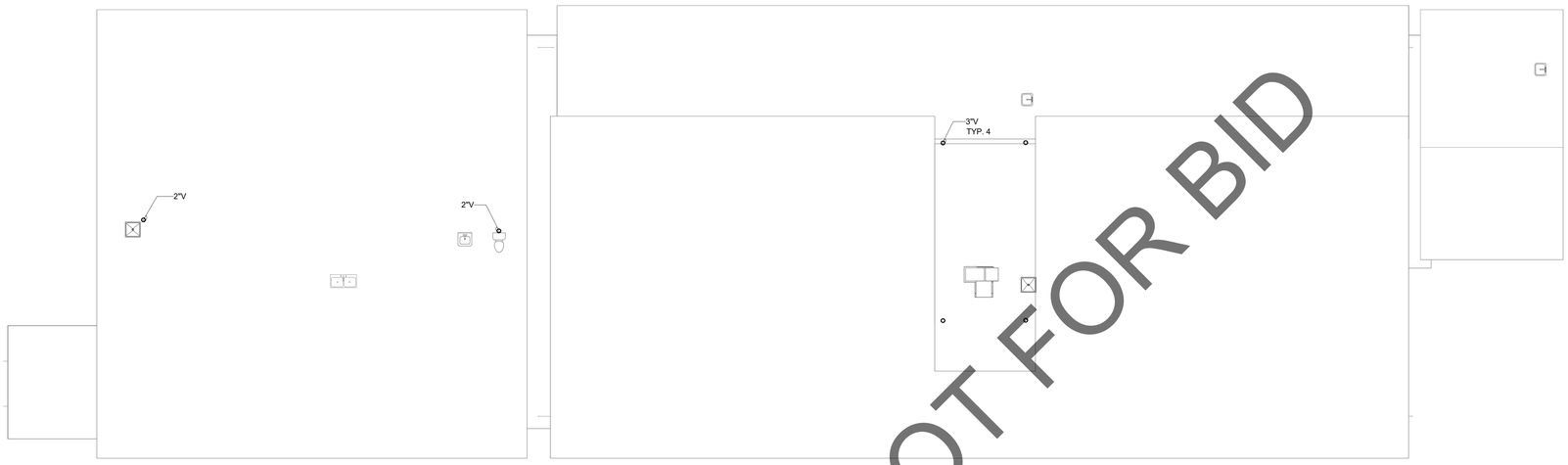
sheet name

MEDICAL CLINIC PLUMBING FLOOR PLAN

sheet number

PBC-102

Sheet Of Sheets



NORTH 1 **MEDICAL CLINIC PLUMBING ROOF PLAN**
1/8" = 1'-0"

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revisions/addenda

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sheet number

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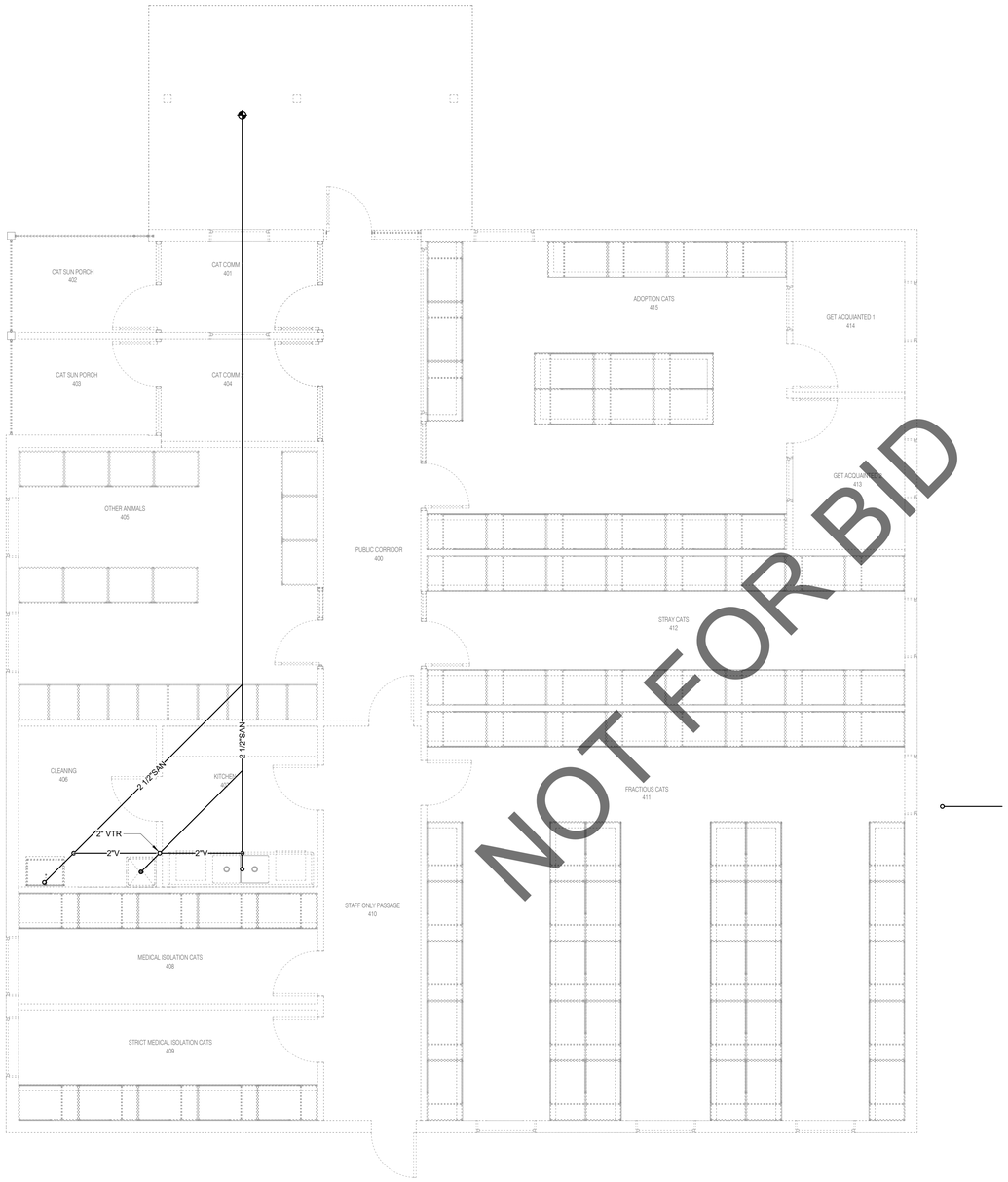

1 CAT & OTHER ANIMALS BUILDING PLUMBING UNDERFLOOR PLAN

1/4" = 1'-0"

NORTH

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interiors
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sheet number
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