

EDC ANIMAL SERVICES FACILITY

6435 CAPITAL AVE. DIAMOND SPRINGS, CA

CONSTRUCTION DOCUMENTS SET

12/3/13

ARCHITECTURAL NEXUS PROJECT NUMBER: 13103

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FIRE DEPARTMENT REQUIREMENTS

- EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED EDGE, SURFACE MOUNTED, OR FLUSH BOLTS ARE PROHIBITED. ALL DOORS SHALL OPEN IN DIRECTION FOR EXIT FOR ALL OCCUPANCIES ABOVE 50.
- REFER TO CALIFORNIA BUILDING CODE CHAPTER 10 SECTION 1003.1.10 FOR PANIC HARDWARE REQUIREMENTS FOR OCCUPANCY LOADS OVER 50.
- EXITS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT HAVING AN INTENSITY NOT LESS THAN ONE FOOT CANDLE AT THE FLOOR LEVEL. PROVIDE EXIT SIGNS AS PER SECTION 1011.2, 1011.4, 1011.5 OF CALIFORNIA BUILDING CODE. PROVIDE APPROVED ILLUMINATED EXIT SIGNS AND EXITING ILLUMINATION WHICH ARE POWERED FROM SEPARATE CIRCUITS AND COMPLY WITH SECTION 1011.5.3 OF CALIFORNIA BUILDING CODE WHEN APPLICABLE.
- EXIT SIGNS SHALL BE A MINIMUM OF 4" WIDE CLR. LEADING TO EXITS, AND MAINTAINED TO PUBLIC WAY.
- PORTABLE FIRE EXTINGUISHER SIZE, TYPE, LOCATION, AND QUANTITY WILL BE DETERMINED AT SITE BY FIRE PREVENTION INSPECTOR
- WHEN APPLICABLE, INSTALL ADDRESS NUMBERS AND/OR SUITE NUMBERS IN A CONSPICUOUS LOCATION ON EACH BUILDING SO THAT THEY ARE EASILY VISIBLE FROM THE STREET. THE CHARACTERS SHALL BE A MINIMUM OF 4" HIGH AND COLOR SHALL CONTRAST WITH BACKGROUND
- NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING, WHICH WILL EXCEED THE QUANTITIES LISTED IN CBC TABLE 414.2.5(1)
- AN APPROVED FIRE ALARM SYSTEM SHALL BE INSTALLED AS SET FORTH IN CBC 907.2.3.
- FIRE SPRINKLER SYSTEMS TO BE TIED INTO AN ALARM SYSTEM PER CBC 904.
- PLANS FOR THE CONSTRUCTION OR RELOCATION OF EXISTING FIXED FIRE PROTECTION EQUIPMENT SHALL BE APPROVED BY THE CO'SUMMERS FIRE DEPARTMENT PRIOR TO INSTALLATION.
- PROVIDE ANNUNCIATOR PANEL AT MAIN ENTRANCE.
- PRIOR TO FINAL INSPECTION A TEST CONDUCTED BY AN AUTHORIZED TECHNICIAN SHALL BE COMPLETED TO VERIFY THAT BUILDING WILL SUPPORT THE SACRAMENTO REGIONAL 800 MHZ RADIO COMMUNICATION SYSTEM. THIS TEST SHALL BE PERFORMED ONCE ALL COMPUTERS, ELECTRONICS AND/OR WIRELESS SYSTEMS AND ETC. HAVE BEEN INSTALLED.
- FIRE CODE REQUIREMENTS FOR FIRE SAFETY DURING CONSTRUCTION AND OBSTRUCTION OF FIRE LANES AND OR FIRE HYDRANTS WILL BE ENFORCED DURING CONSTRUCTION. FIRE LANES SHALL BE MAINTAINED AT ALL TIMES.
- TEMPORARY CONSTRUCTION FENCING LOCATED ACROSS FIRE ACCESS LANES SHALL BE PROVIDED WITH A SWING GATE AND KNOX PANLOCK. GATES SHALL PROVIDE A MINIMUM UNOBSTRUCTED WIDTH OF 20 FEET.
- CONTRACTOR SHALL PROVIDE AN EMERGENCY CONTACT NAME AND PHONE NUMBER ON THE CONSTRUCTION TRAILER.
- SITE ADDRESS NUMBER SHALL BE POSTED AT THE ENTRANCE TO THE JOB SITE AT THE COMMENCEMENT OF CONSTRUCTION.
- LOCATE THE FOLLOWING ITEMS IN THE FIRE CONTROL ROOM: PERMANENTLY POSTED 'NO STORAGE' SIGN OF DURABLE MATERIAL, A FIRE ALARM FLOOR PLAN ZONE MAP MOUNTED TO THE WALL, EMERGENCY LIGHTING AS WELL AS SWITCH LIGHTING, AND FIRE ALARM CONTROL PANEL WITH SILENCE AND RESET CAPABILITY.
- ALL DECORATIVE BEGATATION AND FURNISHINGS AND DECORATIVE MATERIALS INCLUDING BUT NOT LIMITED TO DRAPES, HANGINGS, CURTAINS, DROPS OR OTHER DECORATIVE MATERIALS MOUNTED OR SUSPENDED FROM WALLS OR CEILINGS SHALL MEET THE FLAME PROPAGATION PERFORMANCE OR TITLE 19 CCR SECTION AND 2007 CFC SECTION 806, 807. ALL FABRIC DECORATIVE MATERIALS SHALL BE TREATED AND ACCOMPANIED WITH A CERTIFICATE OF FLAME RESISTANCE. CERTIFICATES AS WELL AS FABRIC SAMPLES SHALL BE SUBMITTED TO THE FIRE DEPARTMENT PRIOR TO INSTALLATION. PLEASE KEEP IN MIND THAT THE OFFICE OF THE STATE FIRE MARSHAL DOES NOT CURRENTLY ADOPT NFPA 701. COMPLIANCE WITH T-19 CCR MUST BE MET.

VICINITY MAP



APPROVALS

Signer 1

Date 1

Signer 2

Date 2

DESIGN CRITERIA

APPLICABLE CODES

2010 CALIFORNIA CODE OF REGULATIONS (CCR) APPLICABLE CODES EFFECTIVE JAN 1, 2010:

- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- TITLE 24 CCR, PART 1 - 2010 BUILDING STANDARDS ADMINISTRATIVE CODE
- TITLE 24 CCR, PART 2 - 2010 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2009 IBC, AS AMENDED BY CALIF.)
- TITLE 24 CCR, PART 3 - 2010 CALIFORNIA ELECTRICAL CODE (CEC) (2009 NEC, AS AMENDED BY CALIF.)
- TITLE 24 CCR, PART 4 - 2010 CALIFORNIA MECHANICAL CODE (CMC) (2009 IAPMO UMC, AS AMENDED BY CALIF.)
- TITLE 24 CCR, PART 5 - 2010 CALIFORNIA PLUMBING CODE (CPC) (2009 IAPMO UPC, AS AMENDED BY CALIF.)
- TITLE 24 CCR, PART 6 - 2010 CALIFORNIA ENERGY CODE
- TITLE 24 CCR, PART 9 - 2010 CALIFORNIA FIRE CODE (CFC) (2009 IFC, AS AMENDED BY CALIF.)
- TITLE 24 CCR, PART 10 - 2010 EXISTING BUILDING CODE
- TITLE 24 CCR, PART 11 - 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE
- TITLE 24 CCR, PART 12 - 2010 CALIFORNIA REFERENCED STANDARDS (PARTIAL LIST - SEE CBC CH. 35 & CFC CH. 45)
- 2010 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CALIF. AMENDED)
- 2006 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CALIF. AMENDED)
- 2010 NFPA 72, NATIONAL FIRE ALARM CODE (CALIF. AMENDED); SEE UL STD 1971 FOR "VISUAL DEVICES"

- COMPLIANCE WITH CALIFORNIA FIRE CODE (CFC) CHAPTER 14 - "FIRE SAFETY DURING CONSTRUCTION & DEMOLITION" IS REQUIRED IN THE COURSE OF CONSTRUCTION.

OTHER CRITERIA

ZONING ORDINANCE: EL DORADO COUNTY Zoning Ordinance

DEFERRED SUBMITTALS

FIRE ALARM

FIRE SPRINKLER

PROJECT SCOPE

Tenant Improvement of existing 17,000 sf empty space into ANIMAL SERVICES including new walls, finishes, casework, doors, windows, plumbing, mechanical and electrical.

ACCESSIBILITY REQUIREMENTS

- TENANT MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL LOCAL AND STATE CODES
- ONE ENTRANCE AND ALL EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDING AND FACILITY SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES.
- LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED DOORS SHALL OPERATE AS ABOVE IN THE EGRESS DIRECTION.
- HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE DOOR.
- MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL BE AT LEAST 60" LENGTH IN THE DIRECTION OF THE DOOR SWING AND 44" LENGTH IN THE DIRECTION OPPOSITE THE DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
- THE FLOOR OF LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.
- THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP FOR HAZARDOUS CONDITION.
- THE DOOR SHALL SWING TO THE FULLY OPEN POSITION WHEN AN OPENING FORCE NOT TO EXCEED 5 POUNDS (EXTERIOR DOORS) AND 5 POUNDS (INTERIOR DOORS) AND 15 POUNDS (FIRE DOORS) IS APPLIED TO THE LATCH SIDE. (CBC 1008.1.2 AND TITLE 24 DISABLED ACCESS)
- ALL INTERIOR DOORS SHALL MAINTAIN 18" CLR SPACE ON THE STRIKE SIDE OF THE DOOR ON THE SIDE WHERE THE DOOR IS REQUIRED TO BE ACCESSIBLE.
- MINIMUM CLEARANCES FOR PASSAGE ON INTERIOR SPACES SHALL BE 36" MINIMUM CLEAR PASSAGE FOR CORRIDORS SHALL BE 44"
- ALL SERVICE COUNTERS SHALL HAVE AN ACCESSIBLE AREA OF 36" LONG AND NO HIGHER THAN 34" ABOVE F.F. AND NO LOWER THAN 29" ABOVE F.F.
- WHEN DOORS ARE USED IN PAIRS AND APPROVED AUTOMATIC FLUSH BOLTS ARE USED THE DOOR LEAF WITH THE AUTOMATIC BOLTS SHALL HAVE NO KNOB OR MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHOULD BE DONE IN ONE OPERATION.
- TOPS OF TABLES AND/OR COUNTERS SHALL BE 28" TO 34" ABOVE F.F.
- DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. (CBC 1008.1.8.3)

SCHEDULE OF DRAWINGS

GENERAL:			
G001	COVER SHEET	PLUMBING:	
G002	GENERAL INFORMATION	P0.0	PLUMBING ABBREVIATIONS, LEGENDS & SHEET INDEX
G101	EXITING AND OCCUPANCY PLANS	P0.1	PLUMBING BASIS OF DESIGN
G501	WALL ASSEMBLY TYPES	P0.2	PLUMBING SCHEDULE
G601	GENERAL CODE REQUIREMENTS	P1.1	PLUMBING SITE PLAN
G701	ACCESSIBILITY COMPLIANCE	P2.0	PLUMBING UNDERSLAB FLOOR PLAN - WASTE & VENT
		P2.1	PLUMBING FLOOR PLAN - WASTE AND VENT
		P2.2	PLUMBING FLOOR PLAN - HOT WATER, COLD WATER & GAS
		P2.3	PLUMBING ROOF PLAN
ARCHITECTURAL:		P4.1	PLUMBING GAS PIPING DIAGRAM
AD101	DEMOLITION PLAN	P6.1	PLUMBING ENLARGED FLOOR PLANS
A101	FLOOR PLAN	P9.1	PLUMBING DETAILS
A111	DIMENSION PLAN	P9.2	PLUMBING DETAILS
A121	ROOF PLAN	P9.3	PLUMBING ENLARGED TRENCH DETAIL
A151	REFLECTED CEILING PLAN		
A201	BUILDING ELEVATIONS	MECHANICAL:	
A251	INTERIOR ELEVATIONS	M0.0	MECHANICAL ABBREVIATIONS, LEGENDS AND SHEET INDEX
A252	INTERIOR ELEVATIONS	M0.1	MECHANICAL BASIS OF DESIGN
A253	INTERIOR ELEVATIONS	M0.2	MECHANICAL SCHEDULES
A301	BUILDING SECTIONS	M0.3	MECHANICAL TITLE-24
A302	BUILDING SECTIONS	M0.4	MECHANICAL TITLE-24
A401	ENLARGED FLOOR PLAN	M2.0	MECHANICAL ROOF DEMOLITION PLAN
A501	ARCHITECTURAL DETAILS	M2.1	MECHANICAL FLOOR PLAN
A502	ROOF DETAILS	M2.2	MECHANICAL ZONING PLAN
A550	CEILING DETAILS	M3.1	MECHANICAL ROOF PLAN
A551	MILLWORK DETAILS	M5.1	MECHANICAL ELEVATIONS
A601	DOOR SCHEDULES AND TYPES	M9.1	MECHANICAL DETAILS
A602	WINDOW TYPES AND DETAILS		
A603	WINDOW DETAILS	ELECTRICAL:	
A701	DETAILS	E0.0	ELECTRICAL LEGNDS
A1601	FINISH SCHEDULE	E0.1	ELECTRICAL BASIS OF DESIGN
		E0.2	LIGHTING FIXTURE SCHEDULES
		E0.3	LIGHTING TITLE 24
		E2.1	LIGHTING PLAN
		E3.1	POWER PLAN
		E3.2	ROOF PLAN
		E5.1	SINGLE LINE DIAGRAM
		E5.2	ELECTRICAL PANEL SCHEDULES
		E7.1	ENLARGED ELECTRICAL ROOM
		E9.1	ELECTRICAL DETAILS

STATEMENT OF SPECIAL INSPECTIONS

- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
- ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
- ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND EOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
- WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.
- THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIAL. THIS LIST IS NOT INTENDED TO BE ALL INCLUSIVE.

STRUCTURAL CONCRETE		WELDING	
PERIODIC: INSPECTION OF REINFORCING STEEL AND PLACEMENT		CONT: COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	
CONT: INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE		CONT: FILLET WELDS > 5/16" AND MULTIPASS FILLET WELDS	
PERIODIC: VERIFY USE OF REQUIRED DESIGN MIX		PERIODIC: FILLET WELDS ≤ 5/16"	
CONT: SAMPLING FRESH CONCRETE & PERFORMING SLUMP AND AIR CONTENT TESTS & DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS		PERIODIC: METAL DECK WELDS	
CONT: INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		PERIODIC: LIGHT GAUGE METAL WELDS	
PERIODIC: INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE		PERIODIC: WELD FILLER MATERIAL IDENTIFICATION MARKINGS TO CONFORM TO AWS STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS MANUFACTURER'S CERTIFICATION OF COMPLIANCE REQUIRED	
PERIODIC: VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		CONT: WELDING OF REINFORCEMENT STEEL RESISTING SEISMIC FORCES, INDICATED ON PLANS AND DETAILS AS LFRS ELEMENTS OR CONNECTIONS	
PERIODIC: INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		PERIODIC: VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	
PERIODIC: ERECTION OF PRECAST CONCRETE MEMBERS		CONT: WELDING OF STIRRUPS, HOOPS OR TIES	
PERIODIC: POST-INSTALLED AND ADHESIVE ANCHORS		CONT: REINFORCING WELDS IN CMU	
CONT: [DSA / OSHPD] POST-INSTALLED AND ADHESIVE ANCHORS		PERIODIC: ALL OTHER REINFORCEMENT WELDS, UNO	
STRUCTURAL STEEL		COLD-FORMED STEEL FRAMING:	
PERIODIC: HIGH-STRENGTH BOLTS, NUTS, AND WASHERS IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		PERIODIC: SCREW ATTACHMENT, BOLTING, AND ANCHORING OF STRAPS, HOLDOWNS, BRACES, DRAG STRUTS, AND ROOF, WALLS AND FLOORS.	
PERIODIC: INSPECTION OF HIGH-STRENGTH BOLTING BEARING-TYPE CONNECTIONS			
PERIODIC: INSPECTION OF SLIP-CRITICAL CONNECTIONS USING TURN-OF-NUT METHOD WITH MATCHMARKING, DIRECT TENSION INDICATOR METHOD, OR TWIST OFF BOLTS			
CONT: INSPECTION OF SLIP-CRITICAL CONNECTIONS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING			
PERIODIC: STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			
PERIODIC: STRUCTURAL STEEL MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED			
PERIODIC: INSPECTION OF STEEL FRAME BRACING & STIFFENER DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS			
PERIODIC: STEEL FRAME MEMBER LOCATIONS			
PERIODIC: APPLICATIONS OF JOINT DETAILS AT EACH CONNECTION			



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12/3/13
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EL DORADO COUNTY
EDC ANIMAL SERVICES FACILITY
6435 CAPITAL AVE. DIAMOND SPRINGS, CA

G001

LIST OF ABBREVIATIONS

Table with columns for abbreviations and their corresponding full names, organized by letter (A through V). Includes categories like AIR CONDITIONING, CONCRETE, ELECTRICAL, etc.

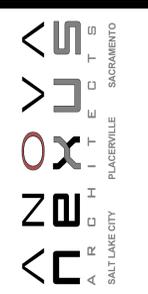
HATCH LEGEND

NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, WHILE HATCHING PATTERN REMAINS SIMILAR.

Table showing various hatching patterns and their corresponding material names, such as CAST-IN-PLACE CONCRETE, STEEL STUDS, BRICK VENEER, etc.

DRAWING SYMBOL LEGEND

Diagrammatic legend for drawing symbols, including interior and exterior elevations, wall section references, room designations, and material type designations.



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EDC ANIMAL SERVICES FACILITY
6435 CAPITAL AVE.
DIAMOND SPRINGS, CA

REVISIONS

Table for tracking revisions, with columns for revision number, description, and date.

NEXUS PROJECT #: 13103
CHECKED BY: CHK
DRAWN BY: Author
DATE: 12/3/13

GENERAL INFORMATION

CONSTRUCTION DOCUMENTS SET
SHEET CONTENTS:
GENERAL INFORMATION
G002

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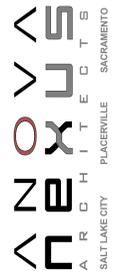
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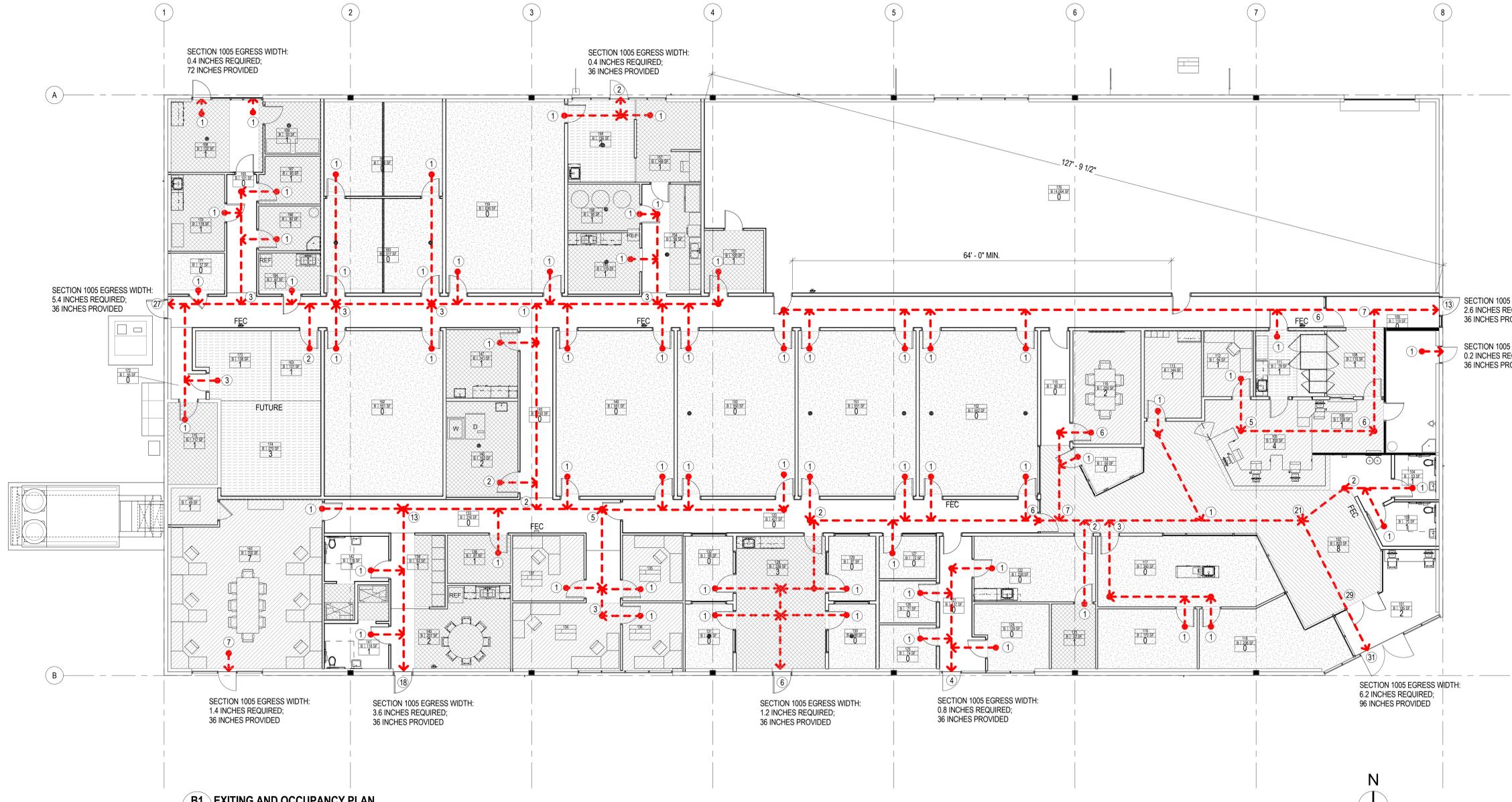


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SECTION 1005 EGRESS WIDTH:
0.4 INCHES REQUIRED;
72 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
0.4 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
5.4 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
2.6 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
0.2 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
1.4 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
3.6 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
1.2 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
0.8 INCHES REQUIRED;
36 INCHES PROVIDED

SECTION 1005 EGRESS WIDTH:
6.2 INCHES REQUIRED;
96 INCHES PROVIDED

B1 EXITING AND OCCUPANCY PLAN
G101 1/8" = 1'-0"



- OCCUPANCY LEGEND
- ADMINISTRATION / OFFICE
 - HALLWAYS, RESTROOMS (ACCESSORY USE)
 - ANIMAL HABITATS ONLY
 - ACCESSORY SUPPORT SPACES
 - MEDICAL TREATMENT
 - LOBBIES
 - FIRE EXTINGUISHER CABINET

REVISIONS

CONSTRUCTION DOCUMENTS SET

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DATE: 12/3/13

SHEET CONTENTS:
EXITING AND OCCUPANCY PLANS

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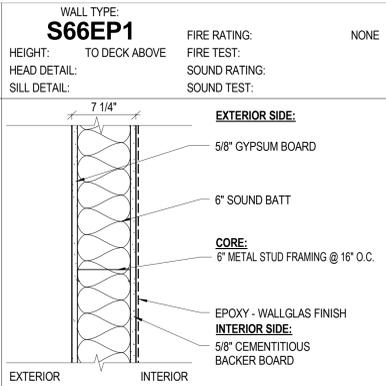
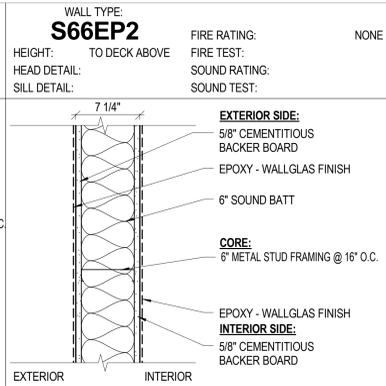
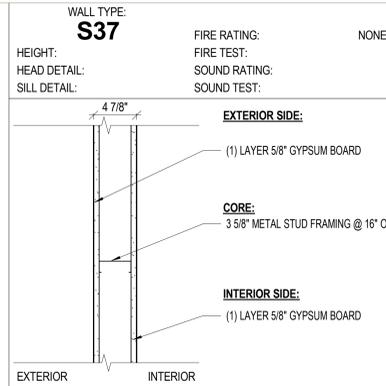
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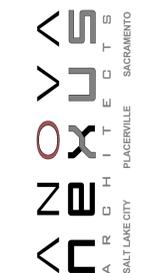
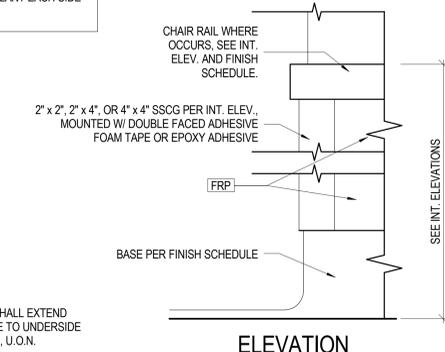
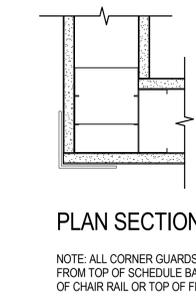
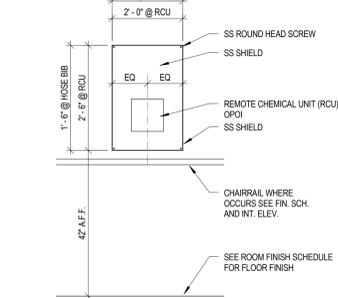
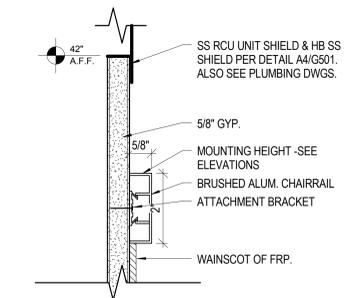
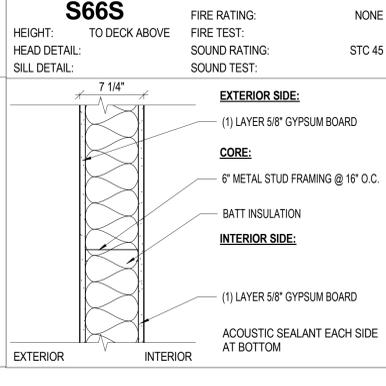
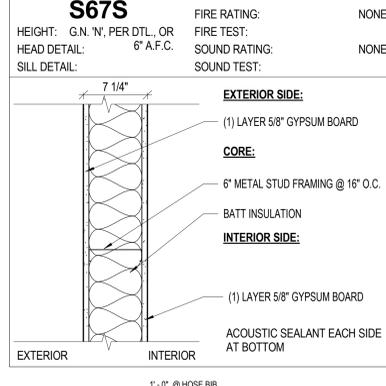
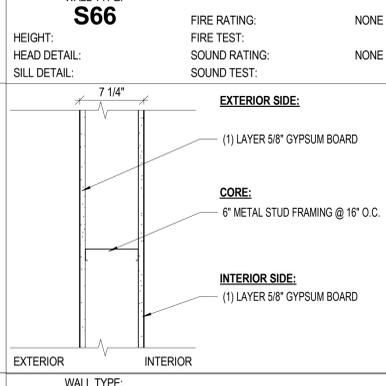
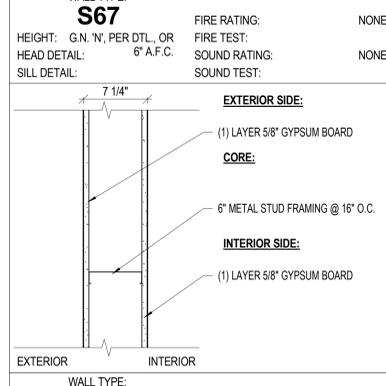
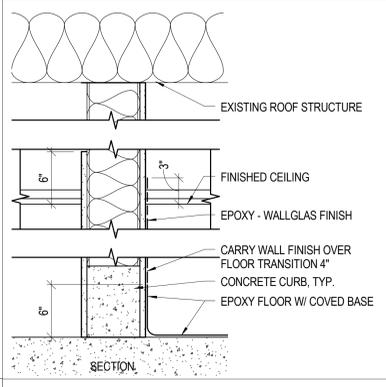
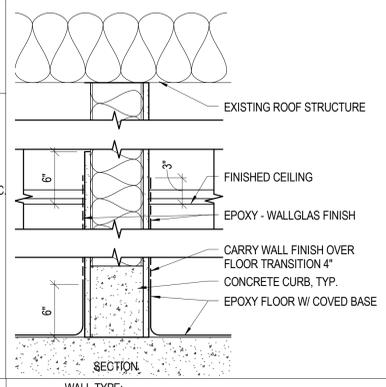
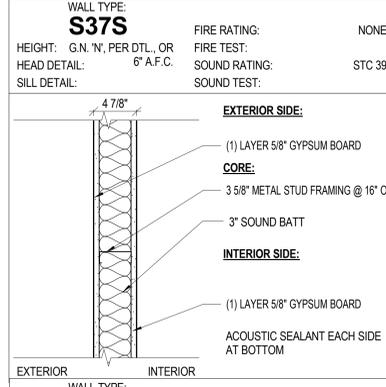
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GENERAL NOTE - WALL TYPE

- A. WALL TYPES DESCRIBED ON THIS SHEET DO NOT ACCOUNT FOR REQUIRED BACKING AND/OR SUPPORT FOR WALL MOUNTED FIXTURES, EQUIPMENT, CASEWORK, AND/OR SYSTEMS FURNITURE. COORDINATE WITH ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, AND EQUIPMENT PLANS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURER'S RECOMMENDATIONS AND USE DETAIL A3/A701 WHERE APPLICABLE.
- B. PROVIDE SEISMIC BRACING PER DETAIL B4/A701 AT ALL WALL TYPES THAT DO NOT EXTEND TO DECK.
- C. WALL THICKNESS DESCRIBED ON THIS SHEET ARE SHOWN AT ACTUAL SIZE IN PLAN REPRESENTATIONS. DIMENSIONS ARE TO FACE OF STUD/STRUCTURE OR GRID. "CLEAR" DIMENSIONS ARE TO FACE OF FINISH.
- D. SEE SHEET A701 FOR TYPICAL FRAMING DETAILS.



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NO.	DESCRIPTION	DATE

SEE INT. ELEVATIONS

CONSTRUCTION DOCUMENTS SET
 WALL ASSEMBLY TYPES
 G501

E

D

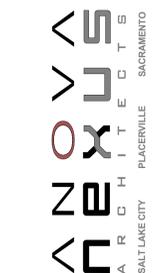
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CBC 2010 - GENERAL CODE REQUIREMENTS NEW CONSTRUCTION				
CODE REFERENCE	OCCUPIED	UNOCCUPIED		BUILDING
OCCUPANCY CLASSIFICATION <small>(SECTIONS 201-310)</small>				
	B	B		B
ALLOWABLE HEIGHT <small>(SECTION 503 & TABLE 503)</small>				
BASE ALLOWABLE HEIGHT (ABOVE GRADE PLANE)				HEIGHT / STORIES 40'-0" / 2
HEIGHT INCREASE FOR SPRINKLERS <small>(SECTION 504.2)</small>				60'-0" / 3
ACTUAL HEIGHT				20'-9" / 1
ALLOWABLE AREA <small>(SECTION 503 & TABLE 503)</small>				
BASE ALLOWABLE AREA (PER FLOOR)				9,000 SF
INCREASED ALLOWABLE AREA PER FLOOR <small>(EQUATION 5-1)</small>				37,666 SF
MAXIMUM AREA (ALLOWABLE AREA OF 1ST FLR x STORIES PER 506.4-1.2.3) <small>(SECTION 506.4)</small>				112,998 SF
UNLIMITED AREA BUILDING? <small>(SECTION 507)</small>				N/A
SPECIAL PROVISIONS? <small>(SECTION 509)</small>				N/A
ACTUAL AREA	17,167 SF	4,004 SF		21,171 SF
CONSTRUCTION CLASSIFICATION <small>(SECTION 602 & TABLE 602)</small>				
				TYPE V-B
FIRE-RESISTANCE RATING - BUILDING ELEMENTS <small>(TABLE 607)</small>				
REQUIRED RATING UL LISTING				
STRUCT FRAME, INCLUDING COLS, GIRDERS & TRUSSES				0 HOUR N/A
BEARING WALLS, EXTERIOR				0 HOUR N/A
BEARING WALLS, INTERIOR				0 HOUR N/A
NONBEARING WALLS, EXTERIOR				PER FIRE RESISTANCE RATING - FIRE SEPARATION DISTANCE BELOW
NONBEARING WALLS, INTERIOR				
FLOOR CONST INCLUDING SUPPORT BEAMS AND JOISTS				0 HOUR N/A
ROOF CONST INCLUDING SUPPORT BEAMS AND JOISTS				0 HOUR N/A
FIRE-RESISTANCE RATING - FIRE SEPARATION DIST <small>(TABLE 607)</small>				
REQUIRED RATING				
< 5' (PARAPET REQUIRED PER SECTION 704.11.1)				1 HOUR
>= 5' AND < 10'				1 HOUR
>= 10' AND < 30'				0 HOUR
>= 30'				0 HOUR
AUTOMATIC SPRINKLER SYSTEMS <small>(SECTION 903.2)</small>				
				NOT REQUIRED
MEANS OF EGRESS <small>(SECTION 1009)</small>				
FLOOR AREA IN SQUARE FEET PER OCCUPANT <small>(TABLE 1004.1.1)</small>	100 GROSS			
ACTUAL FLOOR AREA	17,167 GSF			
DESIGN OCCUPANT LOAD <small>(SECTION 1004.1)</small>	RE: TO SHEET G101 EXITING & OCCUPANCY PLAN			
OCCUPANCY CALCULATION <small>(TABLE 1004.1.3)</small>				
SUMMARY	NET AREA	OCC LOAD FACTOR	QUANTITY	
PER GROUP B OCCUPANCY	15,464 SF	1 : 100	155	
BY ACTUAL OCCUPIED USE	3,697 SF	N/A	61	
AREA BREAKDOWN				
OFFICE RELATED	2,953 SF	1 : 100	30	
ADMINISTRATION (OFFICES & LOBBIES)				
MEDICAL AREAS	745 SF	1 : 100	7	
SURGERY / PREP AREAS	510 SF	-	-	
INTAKE EXAM ROOMS	235 SF	-	-	
SUBTOTAL "OCCUPIED" AREAS	3,697 SF	-	37	
ANIMAL HABITATS	5,863 SF	-	0	
ACCESSORY AREAS	2,411 SF	1 : 100	24	
HALLWAYS	3,492 SF	-	0	
SUBTOTAL "UNOCCUPIED" AREAS	11,766 SF	-	24	
TOTAL BUILDING OCCUPANCY LOAD:	15,464 SF		61	
EGRESS WIDTH <small>(SECTION 1003.1)</small>				
STAIRWAY WIDTH PER OCCUPANT	N/A			
STAIRWAY WIDTH REQUIRED	N/A			
STAIRWAY WIDTH PROVIDED	N/A			
OTHER EGRESS COMPONENT WIDTH PER OCCUPANT	0.2"			
OTHER EGRESS COMPONENT WIDTH REQUIRED	RE: TO SHEET G101 EXITING & OCCUPANCY PLAN			
OTHER EGRESS COMPONENT WIDTH PROVIDED	RE: TO SHEET G101 EXITING & OCCUPANCY PLAN			
CORRIDORS <small>(SECTION 1010)</small>				
REQUIRED FIRE-RESISTANCE RATING <small>(SECTION 1010.1.8 & TABLE 1010.1.1)</small>	X HOUR			
MINIMUM WIDTH <small>(SECTION 1010.2)</small>				
EXITS <small>(SECTION 1005.1, TABLE 1001.1, SECTION 1001.2 & TABLE 1001.2)</small>				
	X			X
MINIMUM PLUMBING FACILITIES <small>(2010 CBC, SECTION 412 & TABLE 4-1)</small>				
COLUMN LEGEND:	RATIO REQUIREMENT			
	NO. REQUIRED	NO. PROVIDED		
WATER CLOSETS	1 PER #	1 PER 100 MALES	3 PER 50 FEMALES	
	X X	1 2	3 2	
LAVATORIES	1 PER #	1 PER 200 MALES	1 PER 200 FEMALES	
	X X	1 2	1 2	
URINALS	1 PER #	1 PER 100 MALES	N/A	
	X X	1 0	- -	
DRINKING FOUNTAINS	1 PER #	1 PER 150		
	X X	1 2		
ACCESSIBILITY <small>(CHAPTERS 11A & 11B)</small>				
TOTAL PARKING SPACES PROVIDED				XX
REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES <small>(SECTION 1106A.3)</small>				X
ACCESSIBLE PARKING SPACES PROVIDED				X
VAN ACCESSIBLE PARKING SPACES REQUIRED (1/8) <small>(SECTION 1106A.6)</small>				X
VAN ACCESSIBLE PARKING SPACES PROVIDED (1/8)				X



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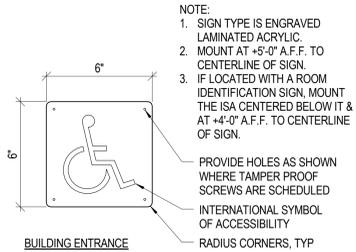
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 DATE: 12/3/13

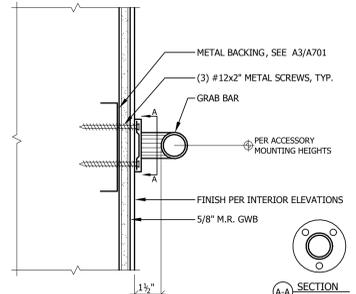
GENERAL CODE REQUIREMENTS

G601

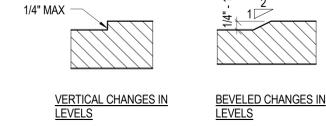
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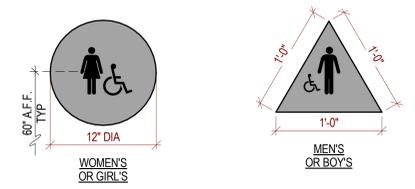
E4 SIGN BUILDING ENTRANCE
G701 3" = 1'-0"



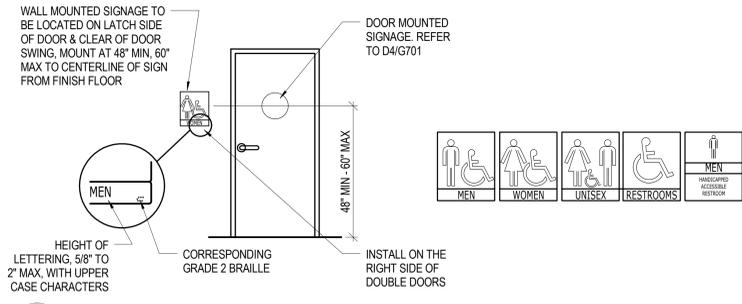
E5 ANCHOR GRAB BAR
G701 3" = 1'-0"



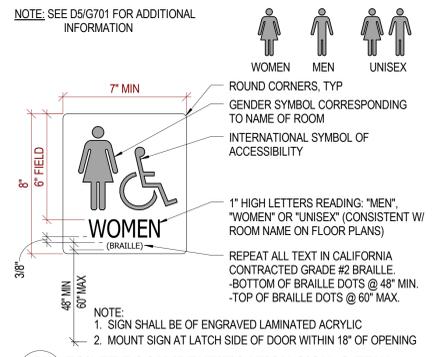
E6 CHANGE IN LEVELS
G701 6" = 1'-0"



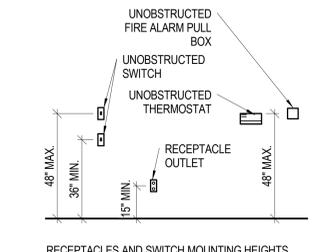
D4 TOILET ROOM DOOR SIGNS, S-TRD
G701 1 1/2" = 1'-0"



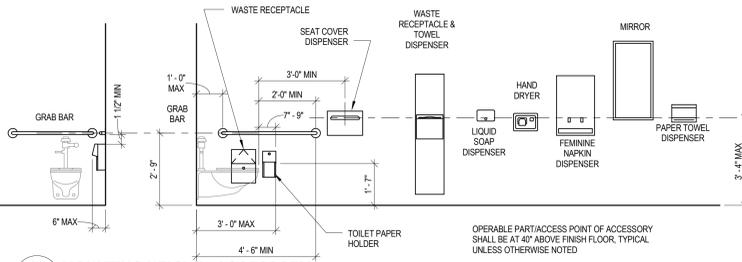
D5 RESTROOM SIGNAGE
G701 3/8" = 1'-0"



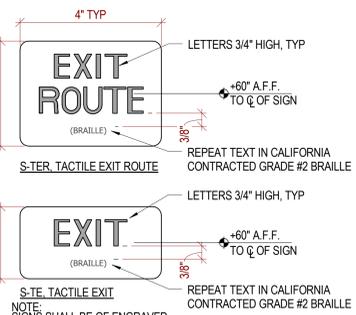
C2 TOILET ROOM IDENTIFICATION SIGN, S-TRW
G701 3" = 1'-0"



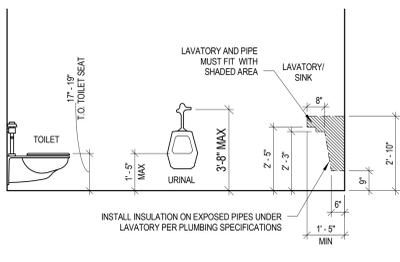
C4 MISC. MOUNTING HEIGHTS
G701 3/8" = 1'-0"



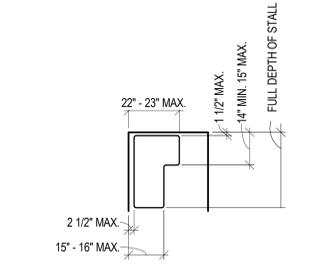
C5 MOUNTING HEIGHT - ACCESSORY
G701 3/8" = 1'-0"



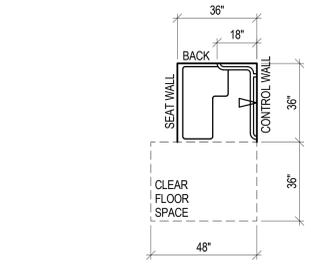
B1 TACTILE EXIT SIGNS
G701 6" = 1'-0"



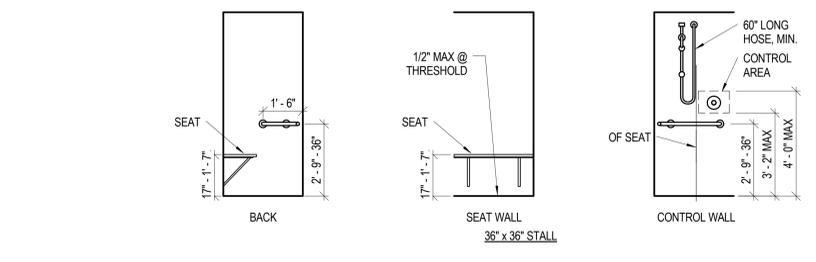
B2 MOUNTING HEIGHT - FIXTURE
G701 3/8" = 1'-0"



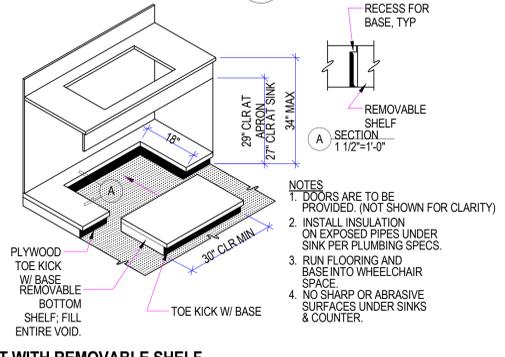
B3 SHOWER SEAT DESIGN
G701 3/8" = 1'-0"



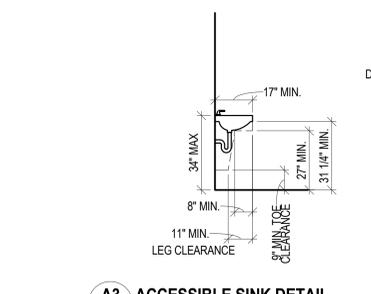
B4 TRANSFER SHOWER STALL
G701 3/8" = 1'-0"



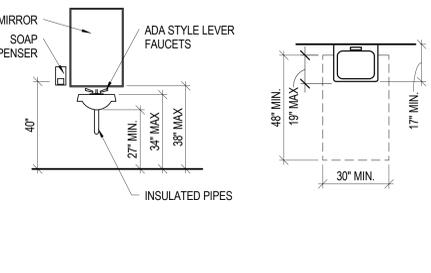
B5 ACCESSIBLE 36"x36" SHOWER STALL
G701 3/8" = 1'-0"



A1 ACC CABINET WITH REMOVABLE SHELF
G701 1/2" = 1'-0"



A3 ACCESSIBLE SINK DETAIL
G701 3/8" = 1'-0"



A5 ACCESSIBLE TOILET DETAIL
G701 3/8" = 1'-0"



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ACCESSIBILITY COMPLIANCE

G701

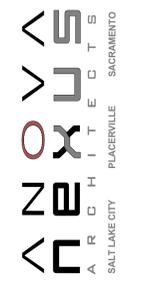
**GENERAL NOTE -
DEMOLITION PLAN**

- A. PROTECT WALLS, CEILINGS, FLOORS AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN OR THAT ARE EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS.
- B. PATCH AND REPAIR DAMAGE IN WALLS, CEILINGS, AND FLOORS RESULTING FROM DEMOLITION OF EXISTING ITEMS OR CONSTRUCTION OF NEW ITEMS AND/OR REPLACE WITH NEW TO MATCH EXISTING. CLEAN AND PREPARE TO RECEIVE NEW FINISH.
- C. PROTECT ADJACENT AREAS FROM DUST AND DEBRIS DURING SELECTIVE DEMOLITION OPERATIONS.
- D. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF DEBRIS.
- E. FIELD VERIFY EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- F. CLEAN ADJACENT IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSE BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.
- G. SEE MECHANICAL, ELECTRICAL, AND AUDIO-VISUAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- H. SAWCUT EDGES OF ALL CONCRETE TO BE REMOVED.
- I. SAWCUT OPENINGS PER DETAIL A4/A701 ON VERTICAL SURFACES.
- J. CONTRACTOR IS RESPONSIBLE TO DETERMINE EXTENT OF DEMO & MAY REDUCE AMOUNT SHOWN ON THIS PLAN WITHOUT COMPROMISING FINAL DESIGN & PERFORMANCE.

DEMOLITION LEGEND

NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, WHILE HATCHING PATTERN REMAINS SIMILAR.

EXISTING CONCRETE TO BE DEMOLISHED. INFILL NEW CONCRETE PER DETAIL A5/A701



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KEYNOTE - DEMOLITION

- 1 EXISTING INTERIOR WALL SYSTEM TO REMAIN
 - 2 CONCRETE TO BE SAW CUT AND REMOVED
 - 3 SAWCUT & REMOVE PORTION OF CONCRETE WALL FOR NEW DOOR, SEE DETAIL A4/A701
 - 4 SAWCUT & REMOVE PORTION OF CONCRETE WALL FOR NEW WINDOW, SEE DETAIL A4/A701
 - 5 EXISTING DOOR AND FRAME TO REMAIN
 - 6 EXISTING STOREFRONT SYSTEM TO REMAIN
 - 7 EXISTING ROLL UP DOOR TO REMAIN
 - 8 MODIFY EXISTING STOREFRONT SYSTEM FOR NEW DOOR
 - 9 PROVIDE NEW OPENING IN METAL STUD WALL FOR NEW DOOR
 - 10 MOP SINK
 - 11 (E) WATER HEATER
 - 12 (E) FIRE SPRINKLER RISER
 - 13 (E) ELECTRICAL PANEL
 - 14 (E) LOADING DOCK
 - 15 (E) MECHANICAL EQUIPMENT
 - 16 (E) STOREFRONT SYSTEM. REMOVE AND REPLACE ALL.
- * AS REQUIRED SEE MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

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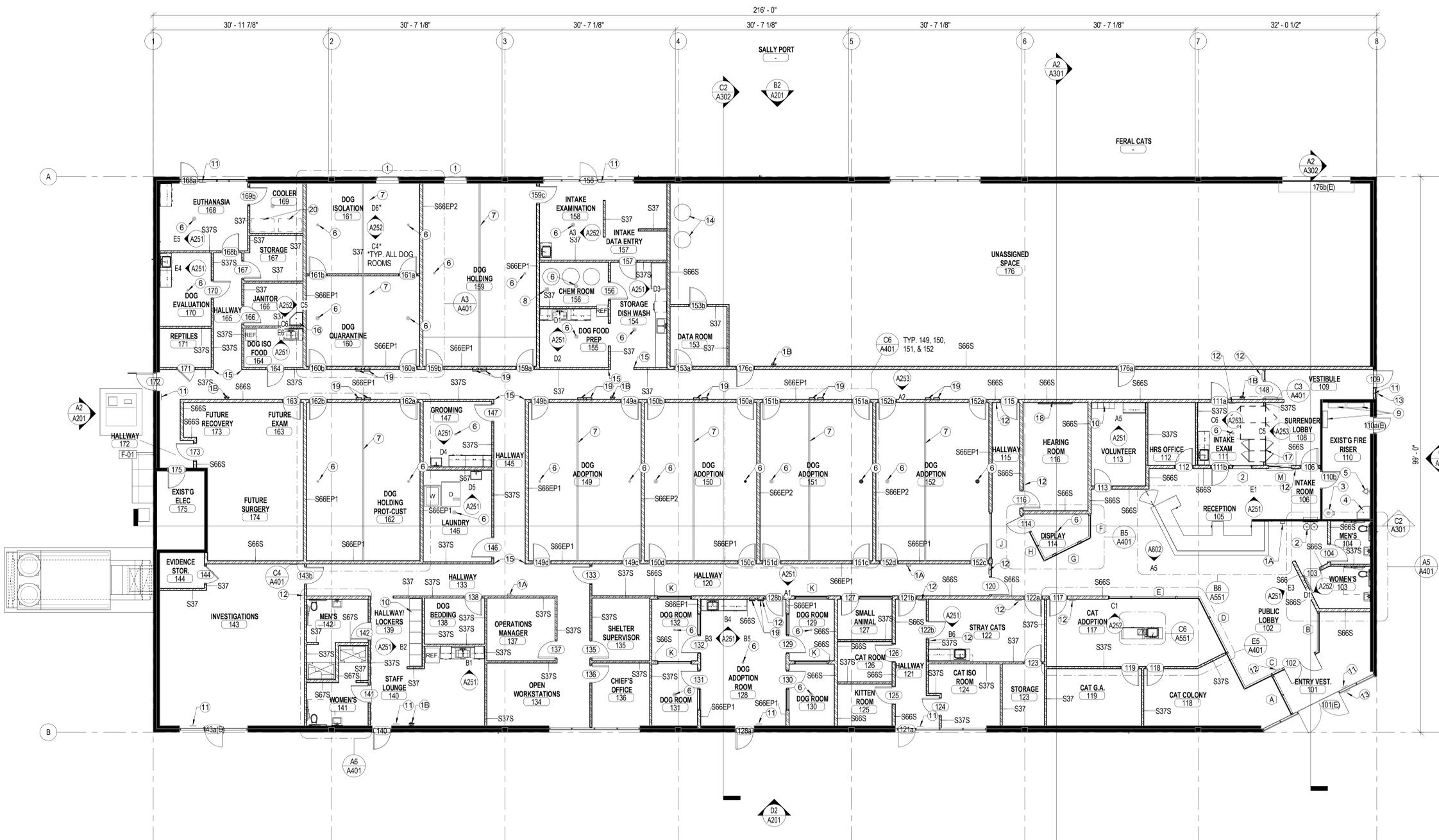
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1	Date 1 Revision 1

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SHEET CONTENTS:
DEMOLITION PLAN

AD101



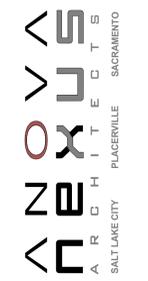
A1 FLOOR PLAN
A101
1/8" = 1'-0"

GENERAL NOTE - FLOOR PLAN

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- C. DO NOT SCALE DRAWINGS.
- D. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.

KEYNOTE - FLOOR PLAN

- 1A FIRE EXTINGUISHER AND CABINET. SEE DETAIL A2/A701
- 1B FIRE EXTINGUISHER & MOUNTING BRACKET
- 2 NEW ACCESSIBLE DRINKING FOUNTAIN - SEE PLUMBING
- 3 EXISTING WATER HEATER TO REMAIN
- 4 EXISTING FLOOR MOUNTED SERVICE SINK TO REMAIN
- 5 EXISTING FIRE SPRINKLER RISER TO REMAIN
- 6 NEW FLOOR DRAIN - SEE PLUMBING
- 7 NEW TRENCH DRAIN - SEE PLUMBING
- 8 NEW FLOOR SINK - SEE PLUMBING
- 9 (E) EXISTING ELECTRICAL PANELS TO REMAIN
- 10 LOCKERS NIC. PROVIDE BACKING AS PER DETAIL A3/A701.
- 11 EXIT SIGN PER DETAIL B1/G701
- 12 EXIT ROUTE PER DETAIL B1/G701
- 13 ACS SIGN PER DETAIL E4/G701
- 14 NEW WATER HEATER. SEE PLUMBING DRAWINGS.
- 15 CORNER GUARD. REFER TO DETAIL A6/G501
- 16 NEW MOP SINK. SEE PLUMBING DRAWINGS
- 17 MODULAR KENNELS, NIC
- 18 BACKING FOR FUTURE MARKER BOARD PER DETAIL A3/A701
- 19 SS RCU UNIT SHIELD & HOSE BIB SS SHIELD. PER DETAIL A4/G501
- 20 FREEZER N.I.C.



KEYNOTE - FLOOR PLAN

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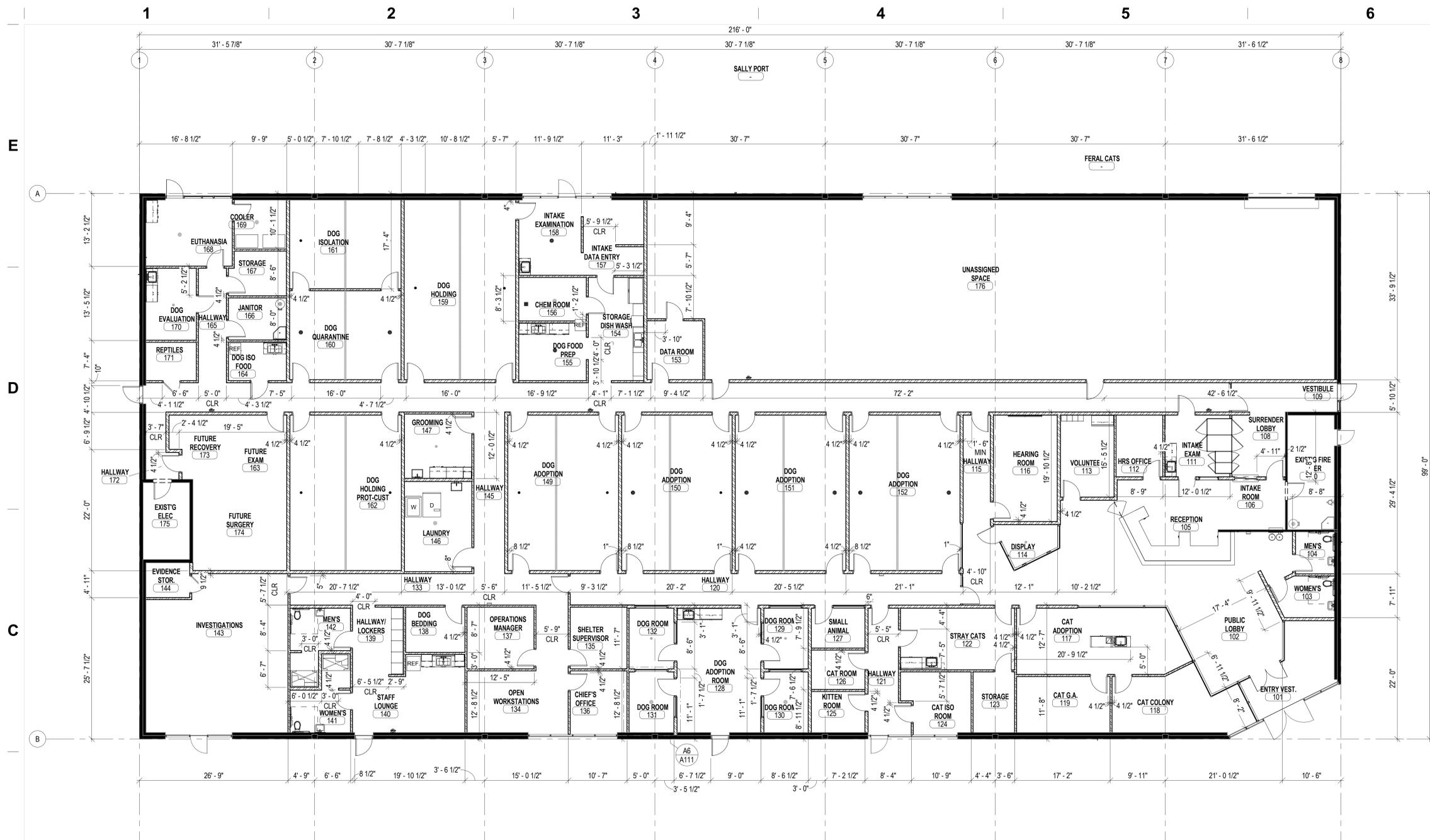
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NO.	DESCRIPTION	DATE

SHEET CONTENTS

FLOOR PLAN

A101



GENERAL NOTE - FLOOR PLAN

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- C. DO NOT SCALE DRAWINGS.
- D. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.

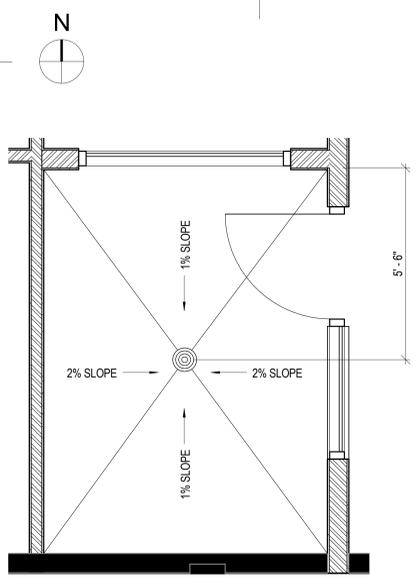
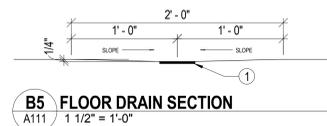
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A1 DIMENSION PLAN
 A111 1/8" = 1'-0"



NOTES

1. THE PURPOSE OF THIS DRAWING IS TO PROVIDE THE CONTRACTOR WITH AN OVERALL VIEW OF CONCRETE SLAB DEPRESSIONS, SLOPES, AND DRAINS. ALL CONDITIONS MUST BE COORDINATED WITH THE APPROPRIATE STRUCTURAL, PLUMBING, ELECTRICAL, AND ARCHITECTURAL DRAWINGS.
2. CONTRACTOR IS TO COORDINATOR WITH OWNER EXACT DIMENSION OF OWNER FURNISHED KENNEL BEFORE LAYING OUT WALLS.

KEYNOTE - ADOPTION DRAINAGE

- 1 TRENCH DRAIN, SEE PLUMBING DRAWINGS

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SHEET CONTENTS

DIMENSION PLAN

A111

1

2

3

4

5

6

E

D

C

B

A

GENERAL NOTE - ROOF PLAN

A. COORDINATE ALL PENETRATIONS OF ROOF SYSTEM WITH MECHANICAL AND ELECTRICAL DRAWINGS.

KEYNOTE - ROOF PLAN

- 1 NEW TUBULAR DAYLIGHTING DEVICE. SEE DETAIL A5/A502
- 2 NEW PACKAGED ROOFTOP AC UNIT - SEE MECHANICAL & DETAIL D5/A502
- 3 NEW EXHAUST FAN - SEE MECHANICAL & DETAIL D5/A502 (SIM)

* SEE A502 FOR ADDITIONAL MIS. DETAILS

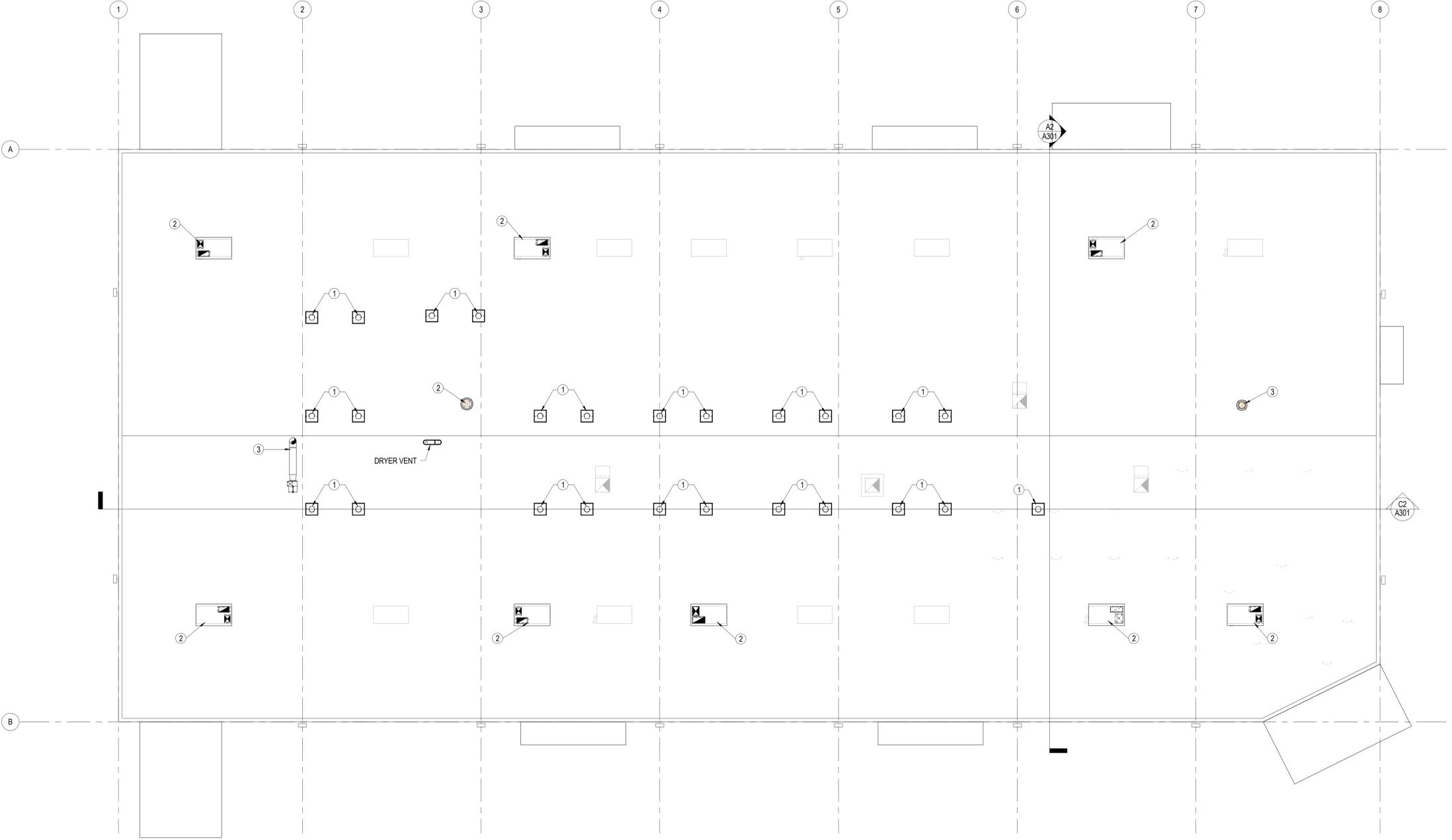


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**EL DORADO COUNTY
 EDC ANIMAL SERVICES FACILITY**
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA



A1 ROOF PLAN
A121 1/8" = 1'-0"

REVISIONS

NO.	DESCRIPTION	DATE

NEXUS PROJECT #: 13103
 CHECKED BY: CHK
 DRAWN BY: Author
 DATE: 12/3/13

SHEET CONTENTS

ROOF PLAN

A121

GENERAL NOTE - RCP

- A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- B. THE CEILING HEIGHT SHOWN IN THE ROOM TAG INDICATES THE HEIGHT OF THE DOMINANT CEILING FINISH. SEE ADDITIONAL CEILING FINISH CALLOUTS FOR OTHER CEILING HEIGHT OR FEATURES.
- C. THE CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THAT DESIGNATED CEILING HEIGHTS CAN BE ACHIEVED. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONDITIONS THAT PREVENT THIS FROM OCCURRING BEFORE PROCEEDING WITH THE WORK.
- D. FOR ALL SUSPENDED CEILING DETAILS SEE SHEET A550.
- E. GYPSUM BOARD CEILING OVER METAL JOISTS: 3/8" X 3/8" X 20 GA 16" OC UP TO A SPAN OF 10' 8" AND 24" OC UP TO 9' 7". 6" X 1 3/8" X 20 GA 16" OC UP AT A SPAN OF 12' 5" AND 24" OC UP TO 11' 2".



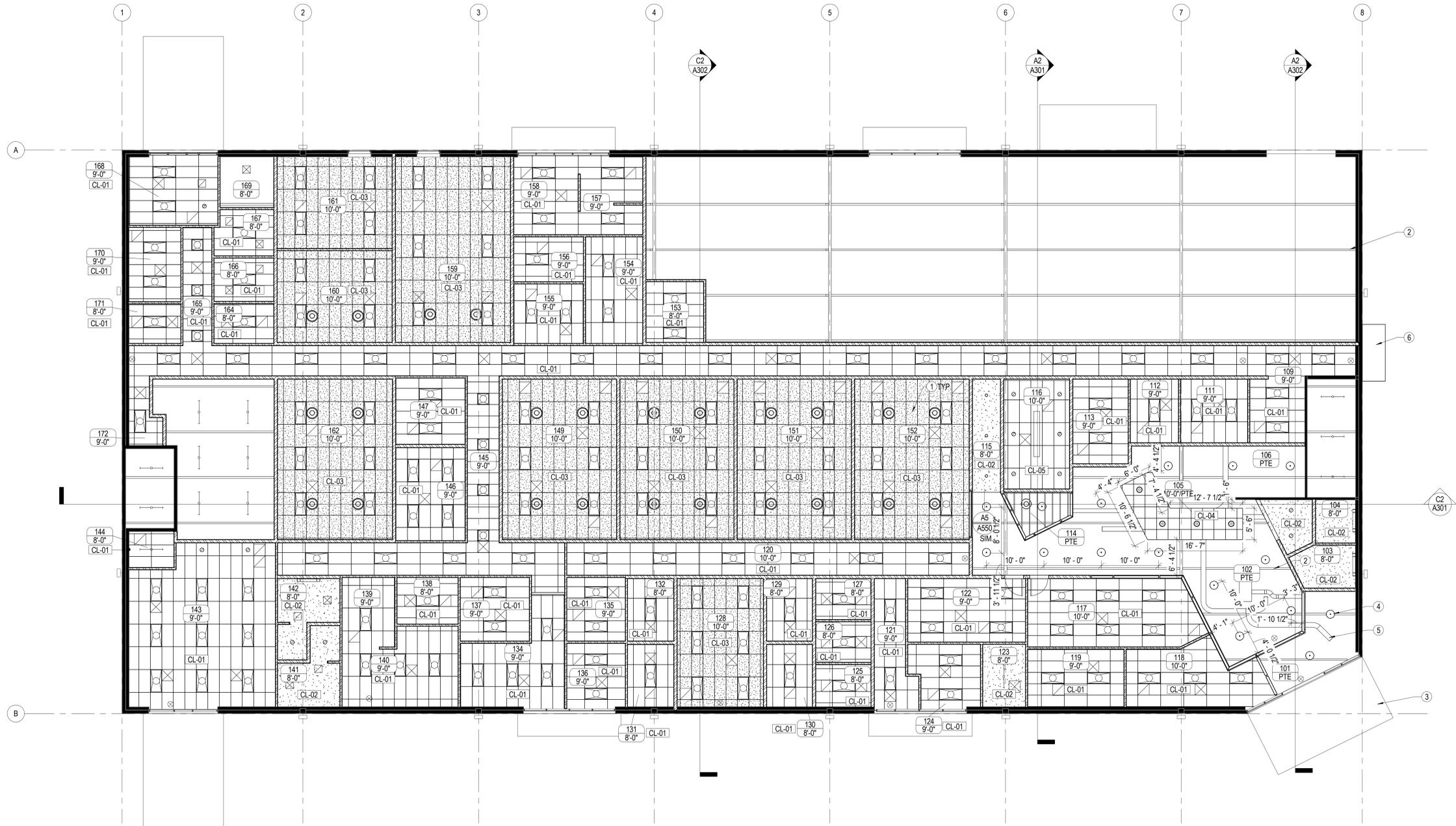
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KEYNOTE - REFLECTED CEILING PLAN

- 1 22" SOLATUBE SKYLIGHT - FIT BETWEEN FRAMING PER DETAIL A5/A502
- 2 EXPOSED STRUCTURE
- 3 (E) ENTRY CANOPY
- 4 LIGHT FIXTURE
- 5 EXPOSED MECHANICAL DUCT, PAINT
- 6 NEW CANOPY N.I.C.



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REFLECTED CEILING PLAN LEGEND

- CL-01: 2'x4' ACOUSTICAL PANEL CEILING
- CL-02: GYP. BD. CEILING - PAINTED, 6" METAL JOISTS @ 16" O.C.
- CL-03: 2'x4' WASHABLE ACOUSTICAL PANEL CEILING
- CL-04: 2'x4' SCORED TEGULAR ACOUSTICAL PANEL CEILING
- PTE: EXPOSED STRUCTURE - PAINTED
- LIGHT FIXTURE
- MECHANICAL GRILLE
- MECHANICAL REGISTER
- SOLARTUBE
- EXIT SIGN

**EL DORADO COUNTY
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 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA

REVISIONS		
#	Date	Revision
1	Date 1	Revision 1

NEXUS PROJECT #: 13103
 CHECKED BY: CHK
 DRAWN BY: MRN
 DATE: 12/3/13

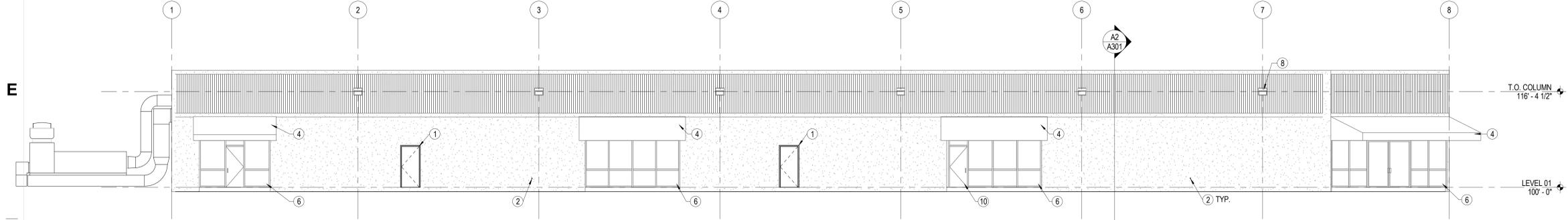
CONSTRUCTION DOCUMENTS SET

REFLECTED CEILING PLAN

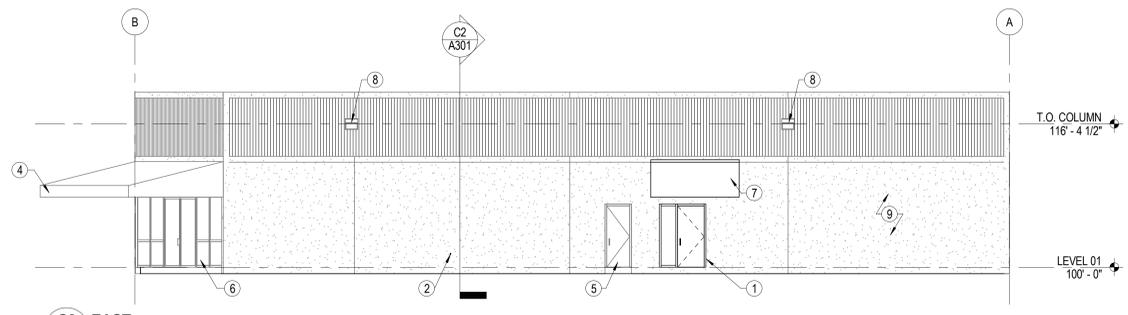
A151
 10-1235 21C 11 of 62

A2 REFLECTED CEILING PLAN
 A151 1/8" = 1'-0"

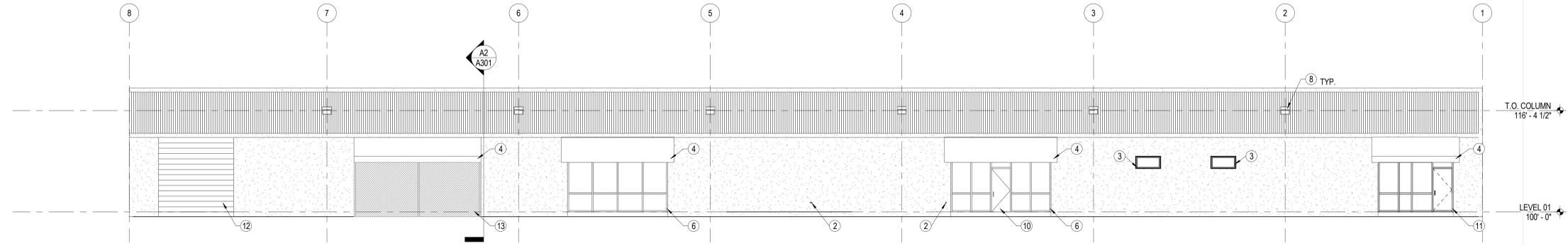
1 2 3 4 5 6



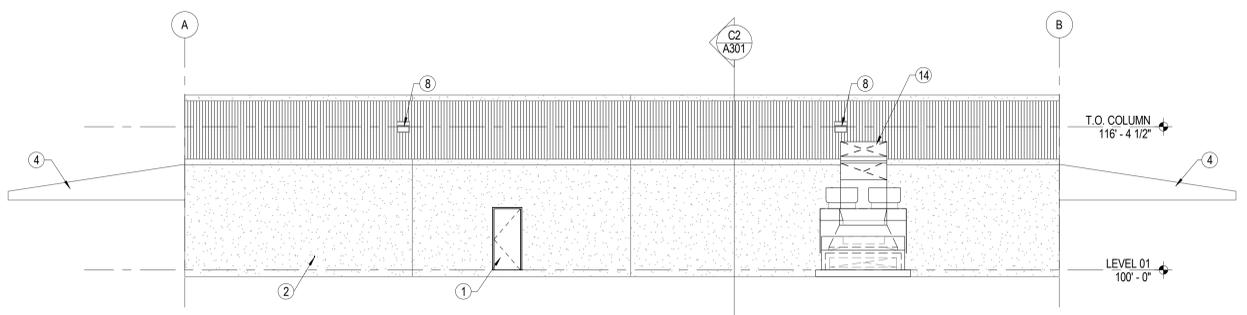
D2 SOUTH
A201 1/8" = 1'-0"



C2 EAST
A201 1/8" = 1'-0"



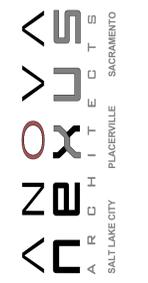
B2 NORTH
A201 1/8" = 1'-0"



A2 WEST
A201 1/8" = 1'-0"

KEYNOTE BUILDING ELEVATION

- 1 NEW OPENING AND DOOR. SAWCUT WALL PANELS TO MINIMIZE OVER-CUTS A4/A701
- 2 NEW HOSE BIBB - SEE PLUMBING
- 3 NEW OPENING AND WINDOW. SAWCUT WALL PANELS TO MINIMIZE OVER-CUTS A4/A701
- 4 (E) CANOPY TO REMAIN
- 5 (E) DOOR TO REMAIN; PAINT
- 6 (E) STOREFRONT TO REMAIN
- 7 NEW OPENING AND WINDOW. SAWCUT WALL PANELS TO MINIMIZE OVER-CUTS A4/A701
- 8 (E) EXTERIOR LIGHT
- 9 (E) CONCRETE PANELS
- 10 MODIFY (E) STOREFRONT SYSTEM FOR NEW DOOR. COLOR TO MATCH (E)
- 11 NEW STOREFRONT DOORS AND WINDOWS. COLOR TO MATCH (E)
- 12 (E) ROLL-UP DOOR TO REMAIN; PAINT
- 13 (E) CHAINLINK FENCE ENCLOSURE TO REMAIN
- 14 NEW OPENING FOR MECHANICAL SAWCUT WALL PANEL MINIMIZE OVER CUTS A4/A701



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REVISIONS

#	REVISIONS

NEXUS PROJECT #: 13103
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DATE: 12/3/13

SHEET CONTENTS:
BUILDING ELEVATIONS

A201

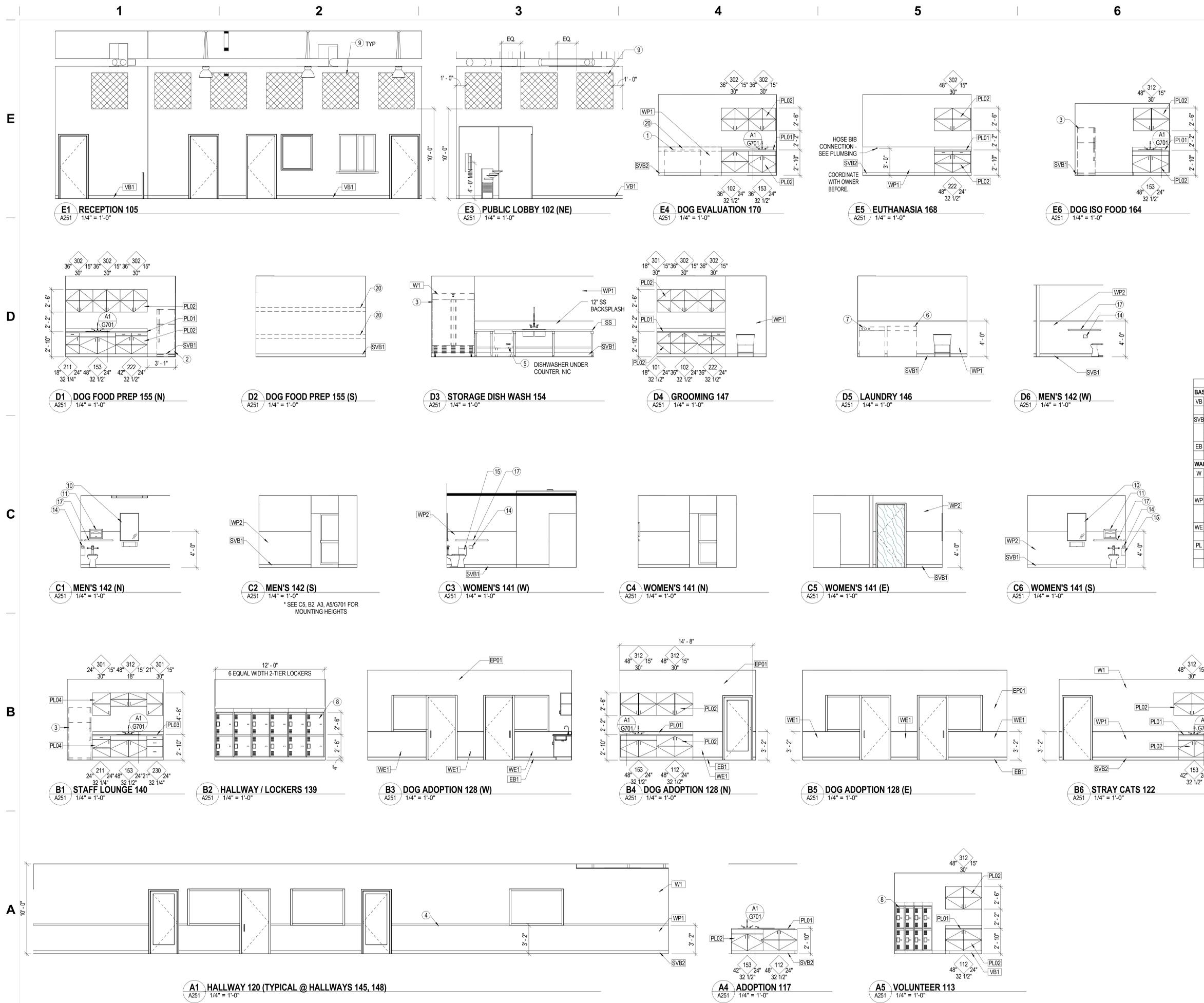
GENERAL NOTE - INTERIOR ELEVATION

- A. ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. SEE SHEET G701 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
- B. PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS, FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.
- C. ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.
- D. SEE DB851 FOR CASEWORK ATTACHMENT.

KEYNOTE - INTERIOR ELEVATION

- 1 EXAM TABLE, NIC. PROVIDE BACKING IN WALL PER DETAIL A3/A701
- 2 UNDER COUNTER REFRIGERATOR, NIC
- 3 REFRIGERATOR, NIC
- 4 ALUMINUM CHAIR RAIL - SEE DETAIL A3/G501 @ ALL HALLWAYS
- 5 DISHWASHER, NIC
- 6 DRYER, NIC
- 7 WASHING MACHINE, NIC
- 8 LOCKERS, NIC. BACKING, SEE C6/A701
- 9 4' x 4' ACOUSTICAL PANELS
- 10 24" x 36" MIRROR
- 11 TOILET SEAT COVER DISPENSER
- 14 TOILET TISSUE DISPENSER
- 15 FEMININE NAPKIN DISPENSER
- 17 GRAB BAR. SEE DETAIL E5/G701
- 18 FIRE EXTINGUISHER & MOUNTED BRACKET
- 19 MOP SINK. SEE PLUMBING
- 20 PROVIDE BACKING FOR EQUIPMENT PER DETAIL A3/A701. COORDINATE LOCATION WITH OWNER

ROOM FINISH LEGEND	
BASE FINISHES	
VB1	VINYL BASE
VB11	4" VINYL BASE
SVB	SHEET VINYL BASE
SVB1	4" INTEGRAL COVED SHEET VINYL BASE - COLOR 01
SVB2	4" INTEGRAL COVED SHEET VINYL BASE - COLOR 02
EB EPOXY BASE	
EB1	INTEGRAL COVED EPOXY BASE
WALL FINISHES	
W	WALL
W1	PAINTED GYP. BD. - COLOR 01
W2	PAINTED GYP. BD. - COLOR 02
WP	WALL PANEL
WP1	WALL PANEL - FIBERGLASS REINFORCED PANEL (FRP)
WP2	WALL PANEL - FIBERGLASS REINFORCED PANEL (FRP)
WE	EPOXY WAINSCOT
WE1	EPOXY WAINSCOT
PL	PLASTIC LAMINATE
PL1	PLASTIC LAMINATE COLOR 01
PL2	PLASTIC LAMINATE COLOR 02



REVISIONS

NO.	DESCRIPTION	DATE

NEXUS PROJECT #:	13103
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SHEET CONTENTS

INTERIOR ELEVATIONS

A251

1

2

3

4

5

6

E

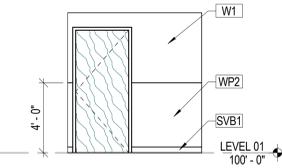
D

C

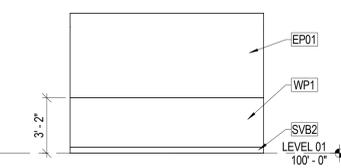
B

A

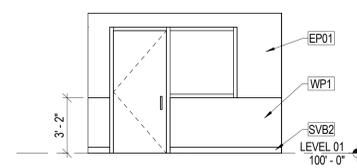
ROOM FINISH LEGEND	
BASE FINISHES	
VB	VINYL BASE
VB1	4" VINYL BASE
SVB	SHEET VINYL BASE
SVB1	4" INTEGRAL COVED SHEET VINYL BASE - COLOR 01
SVB2	4" INTEGRAL COVED SHEET VINYL BASE - COLOR 02
EPOXY BASE	
EB	EPOXY BASE
EB1	INTEGRAL COVED EPOXY BASE
WALL FINISHES	
W	WALL
W1	PAINTED GYP. BD. - COLOR 01
W2	PAINTED GYP. BD. - COLOR 02
WP	WALL PANEL
WP1	WALL PANEL - FIBERGLASS REINFORCED PANEL (FRP)
WP2	WALL PANEL - FIBERGLASS REINFORCED PANEL (FRP)
EPOXY WAINSCOT	
WE	EPOXY WAINSCOT
WE1	EPOXY WAINSCOT
PLASTIC LAMINATE	
PL	PLASTIC LAMINATE
PL1	PLASTIC LAMINATE COLOR 01
PL2	PLASTIC LAMINATE COLOR 02



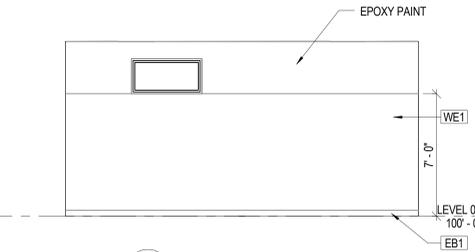
E1 MEN'S 104 (W)
A252 1/4" = 1'-0"



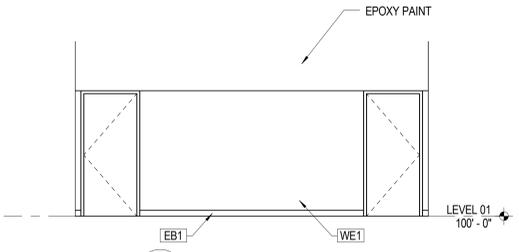
E2 DOG ROOM 129, 130 (E) 131, 132 (W)
A252 1/4" = 1'-0"



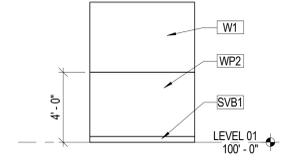
E3 DOG ROOM 129, 130 (W) 131, 132 (E)
A252 1/4" = 1'-0"



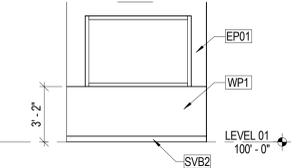
E4 DOG HOLDING 159 (N)
A252 1/4" = 1'-0"



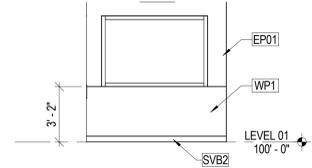
E6 DOG HOLDING 159 (S)
A252 1/4" = 1'-0"



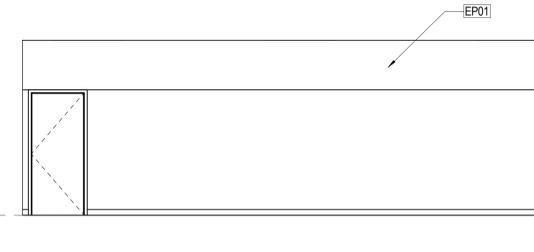
D1 WOMEN'S 103 (SW)
A252 1/4" = 1'-0"



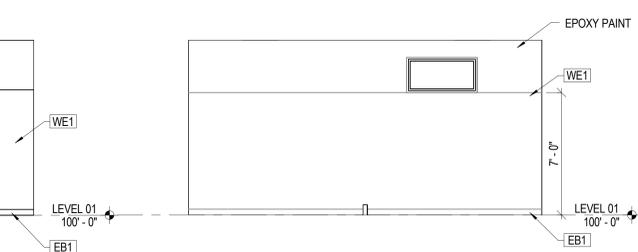
D2 DOG ROOM 129, 130, 131, 132 (S)
A252 1/4" = 1'-0"



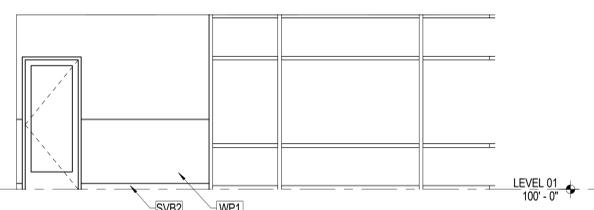
D3 DOG ROOM 129, 130, 131, 132 (N) TYP.
A252 1/4" = 1'-0"



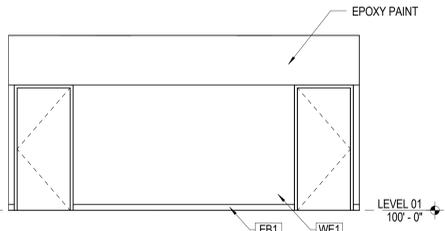
D4 DOG HOLDING 159 (E)
A252 1/4" = 1'-0"



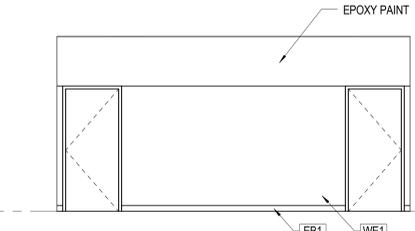
D6 DOG ISO 161 (N)
A252 1/4" = 1'-0"



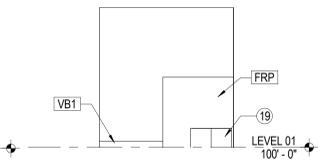
C1 CAT ADOPTION 117 (N)
A252 1/4" = 1'-0"



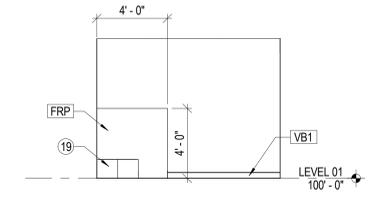
C2 DOG ADOPTION 149 (N)
A252 1/4" = 1'-0"



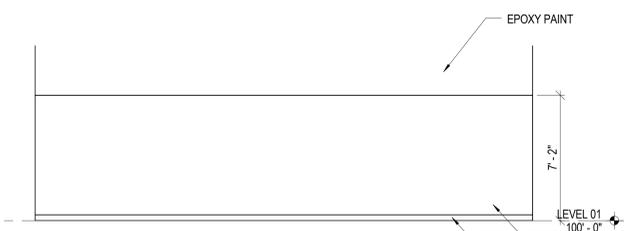
C4 DOG ISO 161 (S)
A252 1/4" = 1'-0"



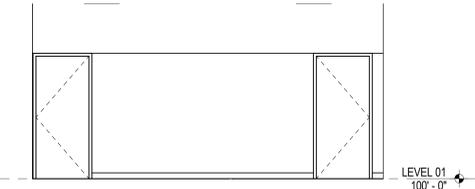
C5 JANITOR 166 (E)
A252 1/4" = 1'-0"



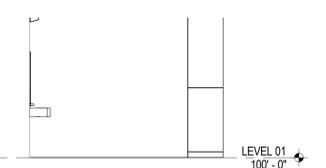
C6 JANITOR 166 (S)
A252 1/4" = 1'-0"



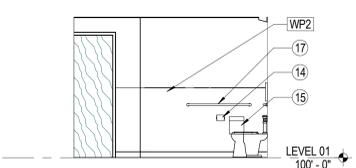
B1 DOG ADOPTION 149 (W)
A252 1/4" = 1'-0"



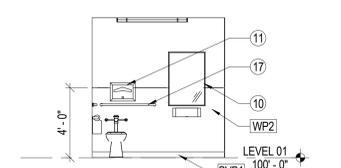
B3 DOG ADOPTION 149 (S)
A252 1/4" = 1'-0"



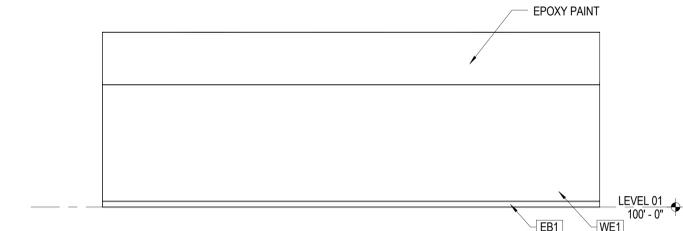
B4 WOMEN'S 103 (S)
A252 1/4" = 1'-0"



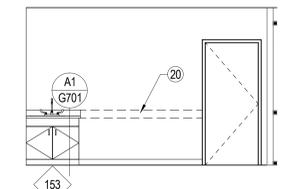
B5 WOMEN'S 103 (N)
A252 1/4" = 1'-0"
*SEE C5, B2, A3, A5/G701 FOR MOUNTING HEIGHTS



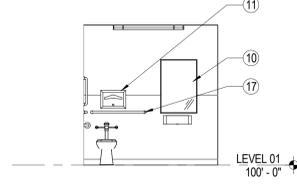
B6 WOMEN'S 103 (E)
A252 1/4" = 1'-0"



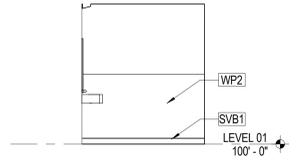
A1 DOG ADOPTION 149 (E)
A252 1/4" = 1'-0"



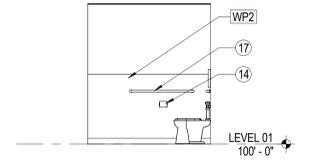
A3 INTAKE EXAMINATION 158 (W)
A252 1/4" = 1'-0"



A4 MEN'S 104 (E)
A252 1/4" = 1'-0"



A5 MEN'S 104 (S)
A252 1/4" = 1'-0"



A6 MEN'S 104 (N)
A252 1/4" = 1'-0"

KEYNOTE - INTERIOR ELEVATION

- EXAM TABLE, NIC. PROVIDE BACKING IN WALL PER DETAIL A3/A701
- UNDER COUNTER REFRIGERATOR, NIC
- REFRIGERATOR, NIC
- ALUMINUM CHAIR RAIL - SEE DETAIL A3/G501 @ ALL HALLWAYS
- DISHWASHER, NIC
- DRYER, NIC
- WASHER MACHINE, NIC
- LOCKERS, NIC. BACKING, SEE C6/A701
- 4' x 4' ACOUSTICAL PANELS
- 24" x 36" MIRROR
- TOILET SEAT COVER DISPENSER
- TOILET TISSUE DISPENSER
- FEMININE NAPKIN DISPOSAL
- GRAB BAR. SEE DETAIL E5/G701
- FIRE EXTINGUISHER & MOUNTED BRACKET
- MOP SINK. SEE PLUMBING
- PROVIDE BACKING FOR EQUIPMENT PER DETAIL A3/A701. COORDINATE LOCATION WITH OWNER.

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REVISIONS

NO.	DESCRIPTION	DATE

NEXUS PROJECT #: 13103
CHECKED BY: CHK
DRAWN BY: Author
DATE: 12/3/13

CONSTRUCTION DOCUMENTS SET

INTERIOR ELEVATIONS
A252

1

2

3

4

5

6

E

D

C

B

A

ROOM FINISH LEGEND	
FLOOR FINISHES	
C	CARPET
C1	CARPET 01
C2	CARPET 02
FC FLOOR COVERING	
FC1	SEALED AND STAINED CONCRETE
FC2	SEALED CONCRETE
T TILE	
T1	8"x8" CERAMIC FLOOR TILE
BASE FINISHES	
B	BASE
B1	4" VINYL BASE
WALL FINISHES	
W WALL	
W1	UNFINISHED SURFACE
W2	PAINTED GYP. BD. - COLOR 01
W4	PAINTED GYP. BD. - COLOR 02
W5	PAINTED GYP. BD. - COLOR 03
WT1	4"x4" WALL TILE
CEILING FINISHES	
C CEILING	
CL1	2"x4" ACOUSTICAL CEILING PANEL
CL2	GYP. BD. PAINTED
CL3	2"x2" ACOUSTICAL CEILING PANEL

- GENERAL NOTE - INTERIOR ELEVATION**
- ENSURE THAT ALL REQUIRED FIXTURE AND CABINET CLEARANCES AND OTHER REQUIREMENTS ARE MAINTAINED PURSUANT TO ADAAG AND ANSI A117.1. SEE SHEET G701 FOR GENERAL GUIDANCE ON COMMON MOUNTING HEIGHTS.
 - PROVIDE BLOCKING/BACKING AS NECESSARY FOR MOUNTING OF WALL-MOUNTED CABINETS, FIXTURES AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. COORDINATE THIS REQUIREMENT THROUGH ALL FLOOR PLANS, EQUIPMENT PLANS, AND INTERIOR ELEVATIONS.
 - ON ALL EXPOSED CABINET SIDES, INCLUDING KNEE OPENINGS, PROVIDE FINISHED FACE TO MATCH CABINET FRONTS. PROVIDE SIDESPLASHES WHENEVER COUNTERTOPS ARE ADJACENT TO WALLS.
 - SEE D6/A551 FOR CASEWORK ATTACHMENT.

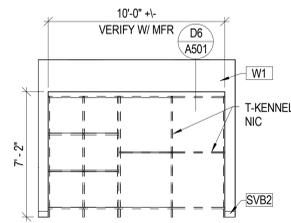
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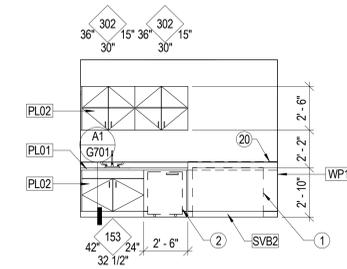
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KEYNOTE - INTERIOR ELEVATION

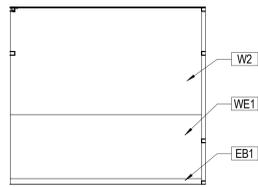
- EXAM TABLE, NIC, PROVIDE BACKING IN WALL PER DETAIL A3/A701
- UNDER COUNTER REFRIGERATOR, NIC
- REFRIGERATOR, NIC
- ALUMINUM CHAIR RAIL - SEE DETAIL A3/G501 @ ALL HALLWAYS
- DISHWASHER, NIC
- DRYER, NIC
- WASHING MACHINE, NIC
- LOCKERS, NIC, BACKING, SEE C6/A701
- 4 x 4 ACOUSTICAL PANELS
- 24" x 36" MIRROR
- TOILET SEAT COVER DISPENSER
- TOILET TISSUE DISPENSER
- FEMININE NAPKIN DISPOSAL
- GRAB BAR. SEE DETAIL E5/G701
- FIRE EXTINGUISHER & MOUNTED BRACKET
- MOP SINK. SEE PLUMBING
- PROVIDE BACKING FOR EQUIPMENT PER DETAIL A3/A701. COORDINATE LOCATION WITH OWNER.



C5 SURRENDER LOBBY 108 (W)
 A253 1/4" = 1'-0"



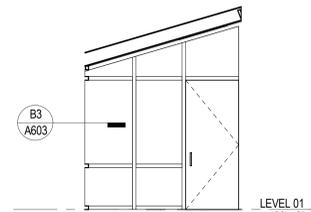
C6 INTAKE EXAM 111 (W)
 A253 1/4" = 1'-0"



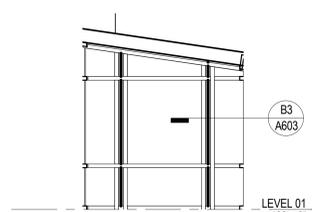
B3 DISPLAY 114 (N)
 A253 1/4" = 1'-0"



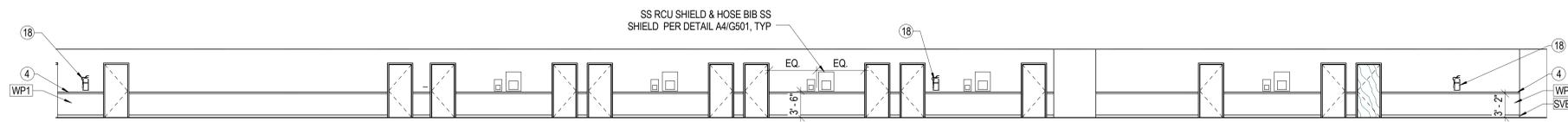
B4 DISPLAY 114 (E)
 A253 1/4" = 1'-0"



B5 DISPLAY 114 (SW)
 A253 1/4" = 1'-0"



B6 DISPLAY 114 (SE)
 A253 1/4" = 1'-0"



A2 HALLWAY 148 (S)
 A253 1/8" = 1'-0"

**EL DORADO COUNTY
 EDC ANIMAL SERVICES FACILITY**
 6435 CAPITAL AVE.
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 DATE: 12/3/13

SHEET CONTENTS:
INTERIOR ELEVATIONS

A253

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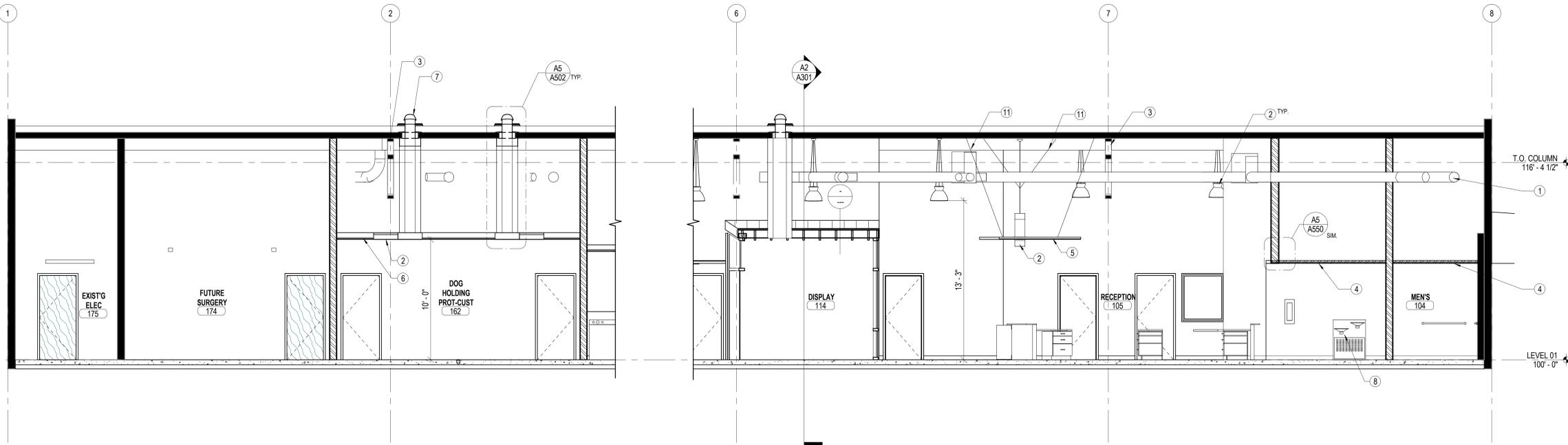
E

D

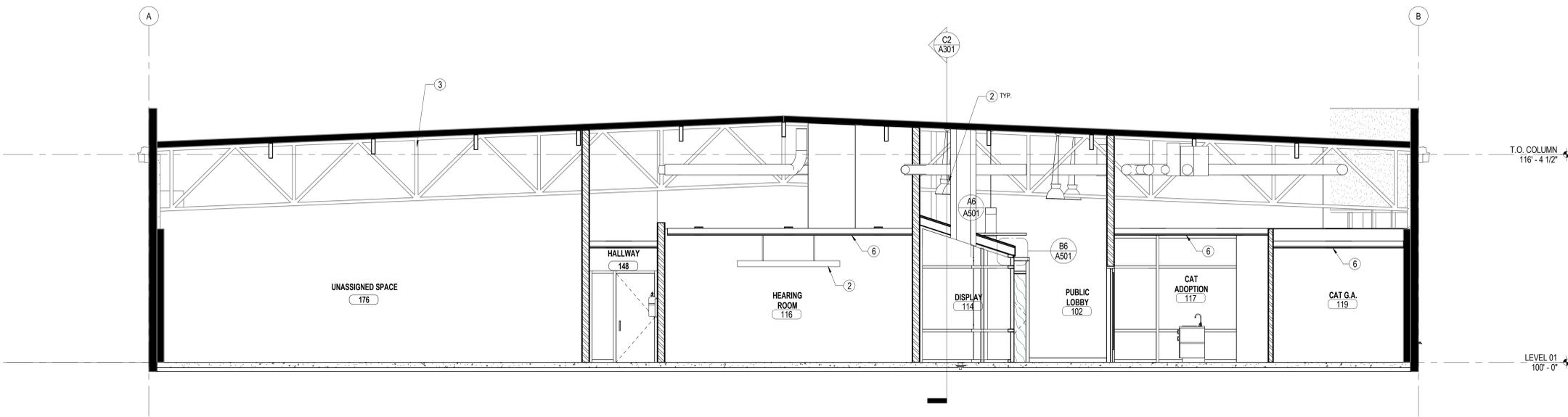
C

B

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C2 BUILDING SECTION - LONGITUDINAL
A301 1/4" = 1'-0"



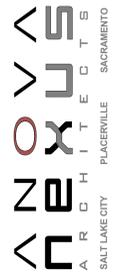
A2 BUILDING SECTION - TRANSVERSE A
A301 1/4" = 1'-0"

GENERAL NOTE - SECTION

- A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- D. DO NOT SCALE DRAWINGS.

KEYNOTE - BUILDING SECTION

- 1 MECHANICAL DUCT EXPOSED, PAINT
- 2 LIGHT FIXTURE
- 3 (E) TRUSS
- 4 GYPSUM BOARD CEILING OVER METAL JOISTS. 3 5/8" X 3/8" X 20 GA 16" OC UP TO A SPAN OF 10' 8" AND 24" OC UP TO 9' 7". 6" X 1 3/8" X 20 GA 16" OC UP AT A SPAN OF 12' 5" AND 24" OC UP TO 11' 2".
- 5 SUSPENDED CEILING CLOUD PER DETAILS ON SHEET A550
- 6 SUSPENDED CEILING PER DETAILS ON SHEET A550
- 7 SOLAR TUBE
- 8 DRINKING FOUNTAIN
- 9 (E) MECHANICAL EQUIPMENT AREA
- 10 (E) CANOPY
- 11 SPLY WIRE, TYP. AS REQUIRED BY CODE



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NO.	DESCRIPTION	DATE

SHEET CONTENTS

BUILDING SECTIONS

A301

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GENERAL NOTE - SECTION

- A. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- C. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- D. DO NOT SCALE DRAWINGS.

KEYNOTE - BUILDING SECTION

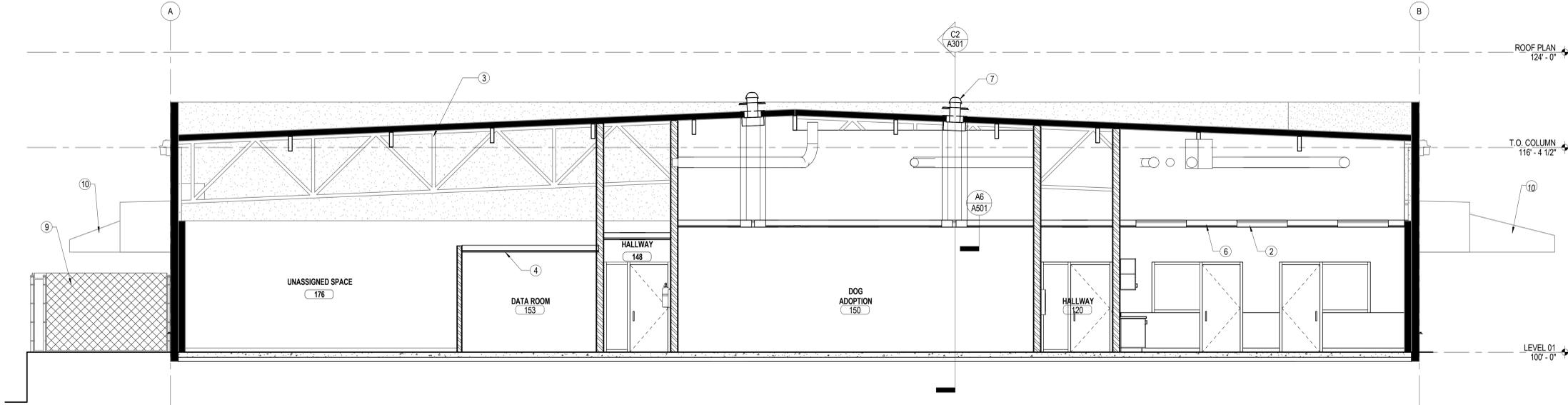
- 1 MECHANICAL DUCT EXPOSED, PAINT
- 2 LIGHT FIXTURE
- 3 (E) TRUSS
- 4 GYPSUM BOARD CEILING OVER METAL JOISTS: 3 5/8" X 3/8" X 20 GA 16" OC UP TO A SPAN OF 10' 8" AND 24" OC UP TO 9' 7". 6" X 1 3/8" X 20 GA 16" OC UP AT A SPAN OF 12' 5" AND 24" OC UP TO 11' 2".
- 5 SUSPENDED CEILING CLOUD PER DETAILS ON SHEET A550
- 6 SUSPENDED CEILING PER DETAILS ON SHEET A550
- 7 SOLAR TUBE
- 8 DRINKING FOUNTAIN
- 9 (E) MECHANICAL EQUIPMENT AREA
- 10 (E) CANOPY
- 11 SPLAY WIRE, TYP. AS REQUIRED BY CODE

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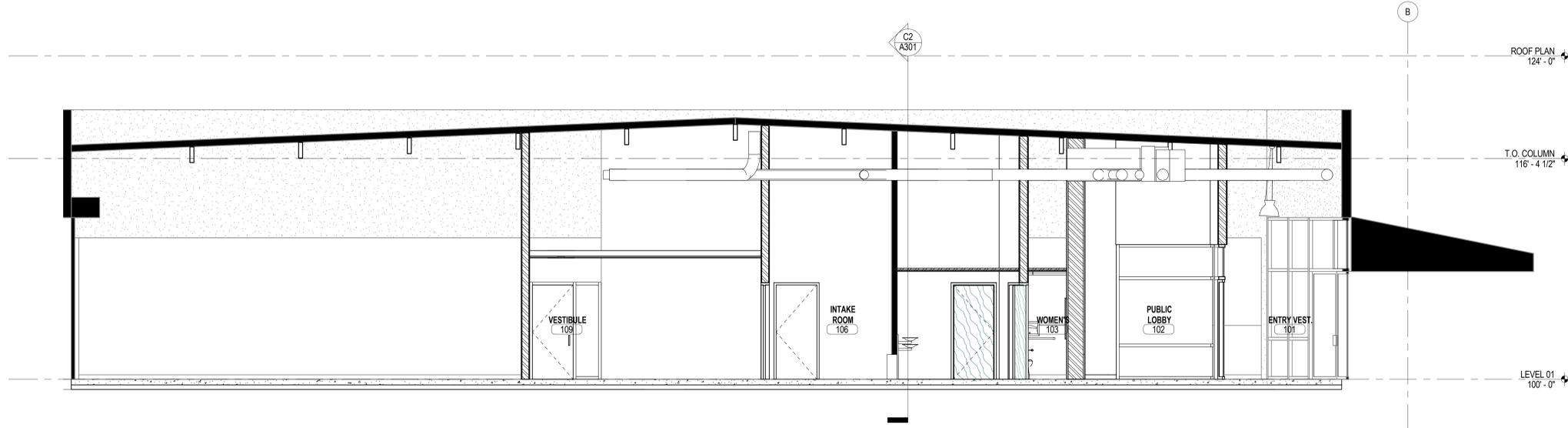
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C2 BUILDING SECTION - TRANSVERSE B
 A302 1/4" = 1'-0"



A2 BUILDING SECTION - TRANSVERSE C
 A302 1/4" = 1'-0"

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SHEET CONTENTS

BUILDING SECTIONS
A302

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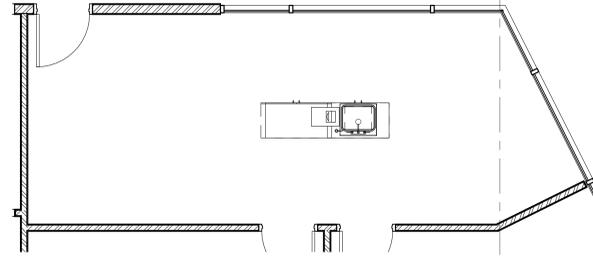
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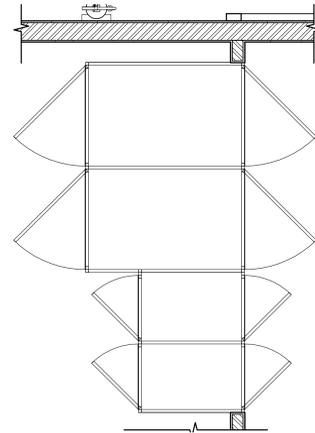
C

B

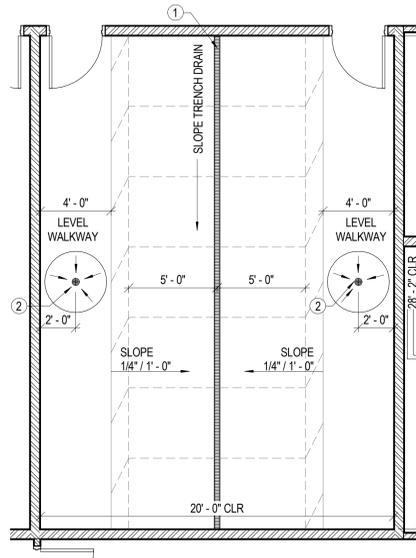
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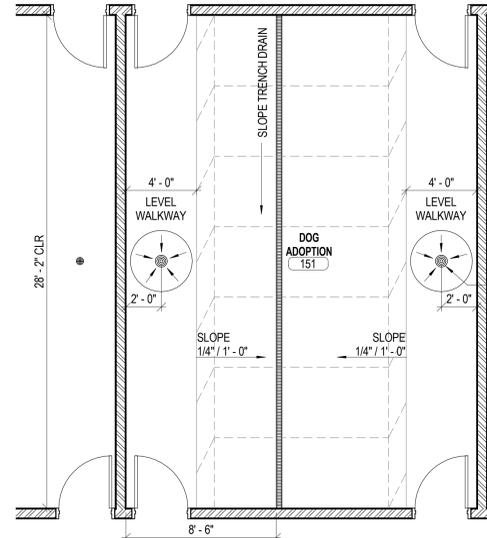
E5 ENLARGED FLOOR PLAN - CAT ADOPTION 117
A401 1/4" = 1'-0"



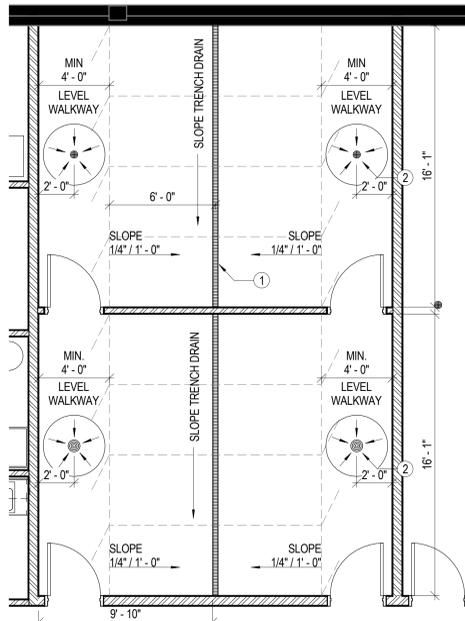
C3 SURRENDER CAGES - PLAN VIEW
A401 1/2" = 1'-0"



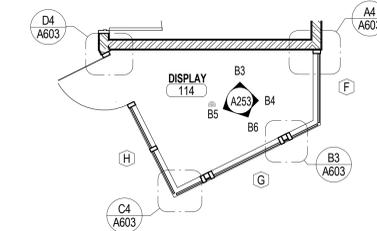
C4 ENLARGED FLOOR PLAN - DOG HOLDING (159 & 162)
A401 1/4" = 1'-0"



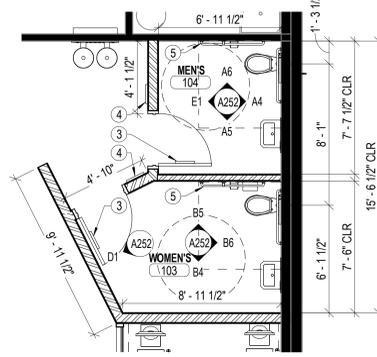
C6 ENLARGED FLOOR PLAN - TYP (149, 150, 151 & 152)
A401 1/4" = 1'-0"



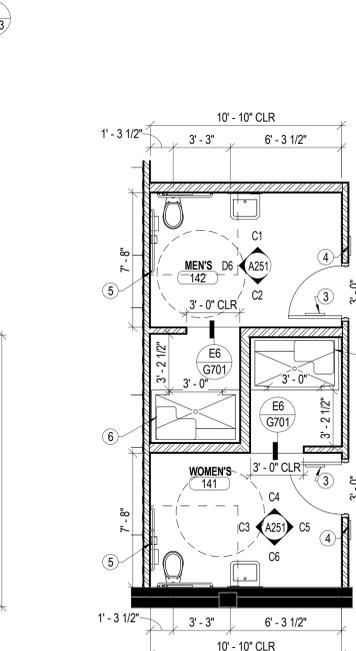
A3 ENLARGED FLOOR PLAN - ROOMS 160 & 161
A401 1/4" = 1'-0"



B5 ENLARGED FLOOR PLAN - DISPLAY 114
A401 1/4" = 1'-0"



A5 ENLARGED FLOOR PLAN - TOILET ROOMS 103 & 104
A401 1/4" = 1'-0"



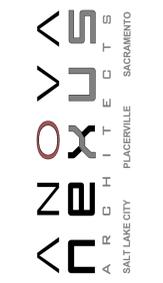
A6 ENLARGED FLOOR PLAN - TOILET ROOMS 141 & 142
A401 1/4" = 1'-0"

GENERAL NOTE - ENLARGED FLOOR PLAN

- A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- C. DO NOT SCALE DRAWINGS.
- D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- F. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL A3/A701.

KEYNOTE - ENLARGED FLOOR...

- 1 TRENCH DRAIN. SEE PLUMBING DRAWINGS
- 2 FLOOR DRAIN. SEE PLUMBING DRAWINGS
- 3 TOILET ROOM DOOR SIGN. SEE DETAIL D4/G701
- 4 TOILET ROOM IDENTIFICATION SIGN. SEE DETAIL C2/G701
- 5 GRAB BAR. SEE DETAIL E5/G701
- 6 ACCESSIBLE SHOWER SEAT. SEE DETAILS B3,B4,B5/G701



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ENLARGED FLOOR PLAN

A401

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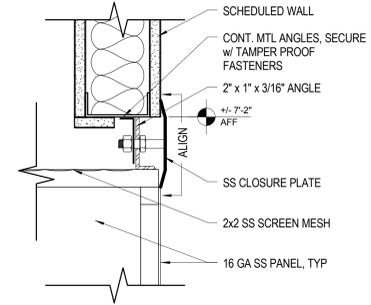


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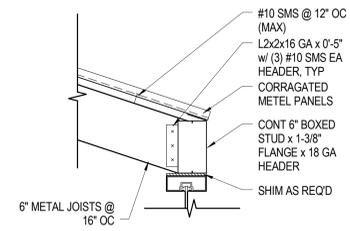


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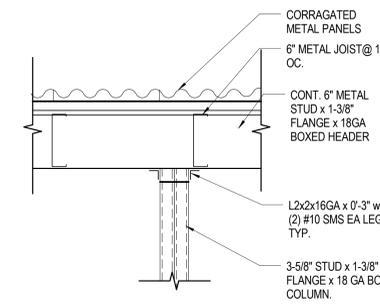
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D6 SURRENDER CAGE HEAD DETAIL
A501 3\"/>



B6 INTERIOR ROOF FASCIA DETAIL
A501 1 1/2\"/>



A6 INTERIOR ROOF FRAMING DETAIL
A501 1 1/2\"/>

REVISIONS

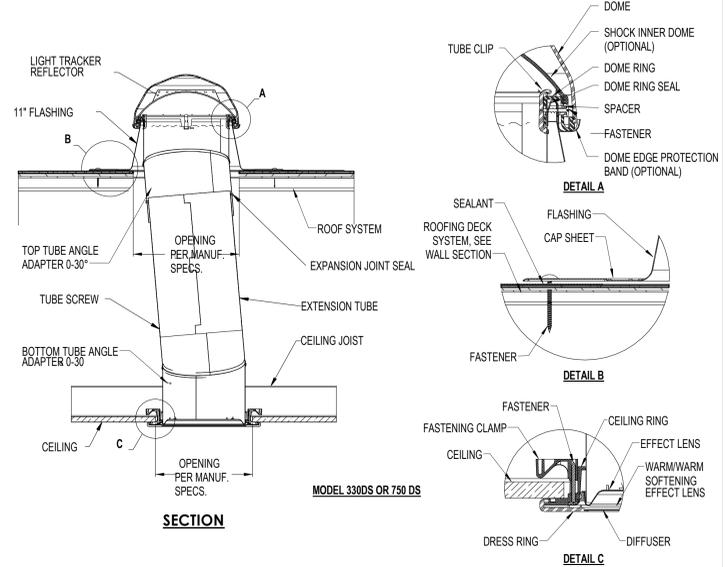
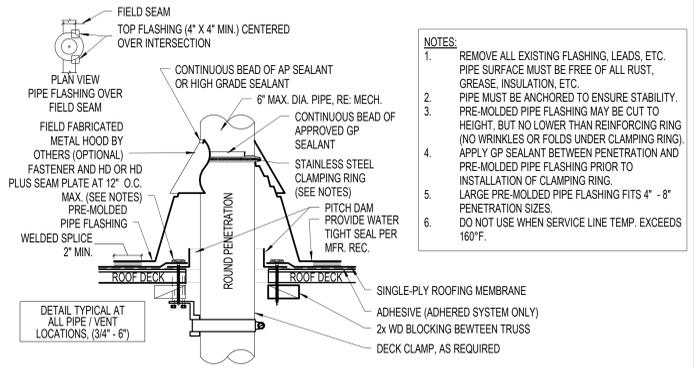
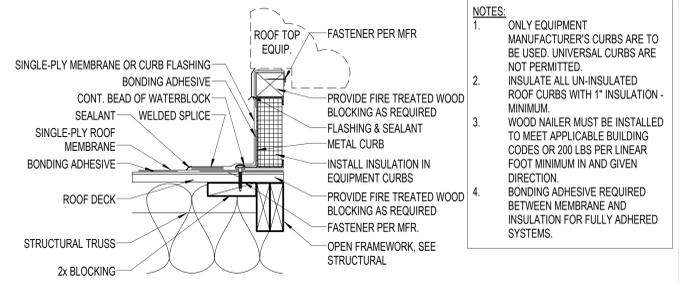
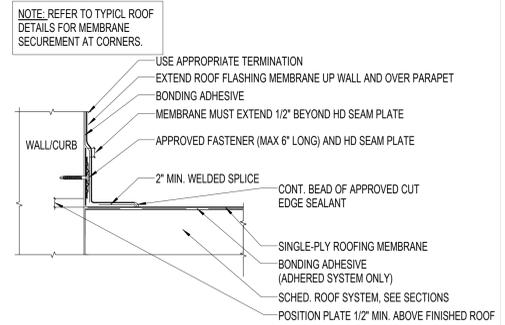
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NEXUS PROJECT #: 13103
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SHEET CONTENTS:
ARCHITECTURAL
DETAILS

A501

CONSTRUCTION DOCUMENTS SET

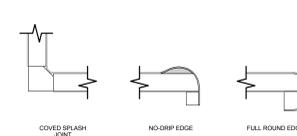


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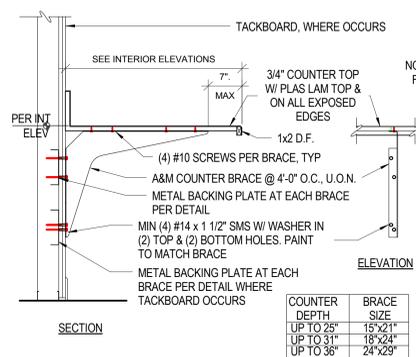
REVISIONS	

NEXUS PROJECT #:	13103
CHECKED BY:	CHK
DRAWN BY:	Author
DATE:	12/3/13

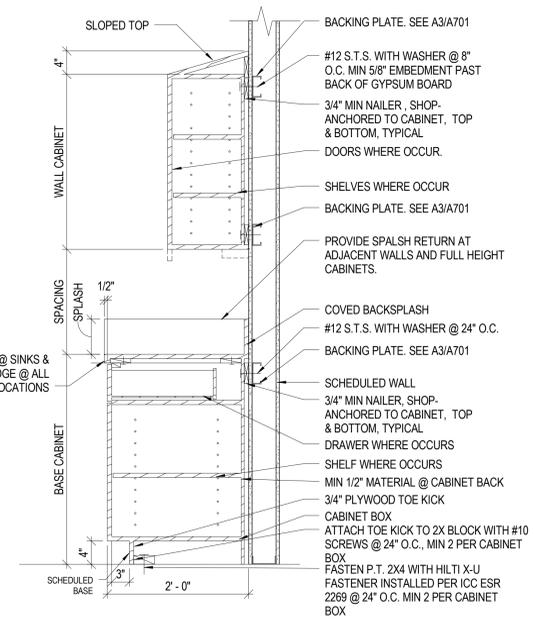
SHEET CONTENTS:
ROOF DETAILS



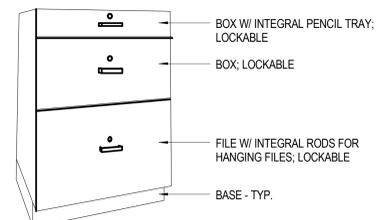
E4 COUNTERTOP DETAILS
A551 1/4" = 1'-0"



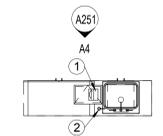
D4 COUNTER BRACE
A551 1" = 1'-0"



D6 CASEWORK - BASE & UPPER - METAL STUD1
A551 1" = 1'-0"

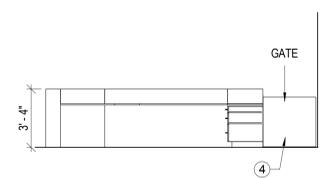


C5 DESK DRAWERS (CS 230)
A551 NOT TO SCALE

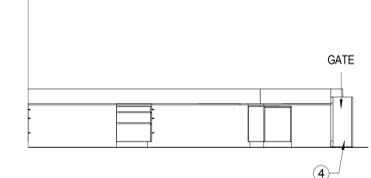


C6 MILLWORK PLAN VIEW - CAT ADOPTION 117
A551 1/4" = 1'-0"

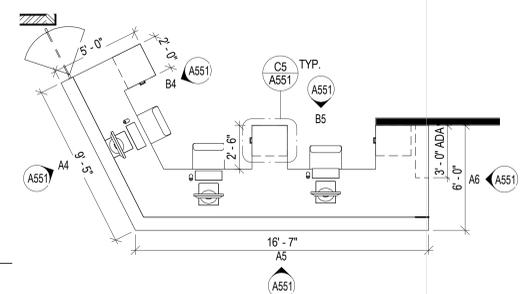
- KEYNOTE - MILLWORK DETAILS**
- 1 RECESSED PAPER TOWEL DISPENSER
 - 2 COUNTER-MOUNTED SOAP DISPENSER
 - 3 SOLID SURFACE DESK TOP & SIDE
 - 4 PLAM NEUTRAL COLOR
 - 5 NEUTRAL COLOR (OFF-WHITE/LIGHT GREY) SOLID SURFACE TRANSACTION TOP & PILLARS
 - 6 ARCHITECTURAL WIRE MESH, WIRE BY DESIGN, (DESIGN 137)
 - 7 PLASTIC LAMINATE BACK COLOR



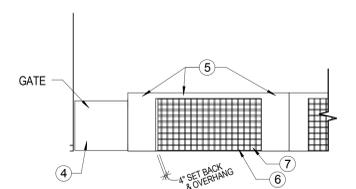
B4 RECEPTION DESK (NE)
A551 1/4" = 1'-0"



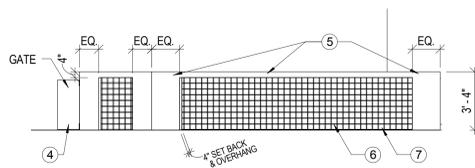
B5 RECEPTION DESK (N)
A551 1/4" = 1'-0"



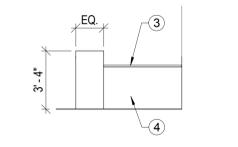
B6 MILLWORK PLAN VIEW - RECEPTION 105
A551 1/4" = 1'-0"



A4 RECEPTION DESK (SW)
A551 1/4" = 1'-0"



A5 RECEPTION DESK (S)
A551 1/4" = 1'-0"



A6 RECEPTION DESK (E)
A551 1/4" = 1'-0"



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DRAWN BY:	MRN
DATE:	12/3/13

SHEET CONTENTS:
MILLWORK DETAILS

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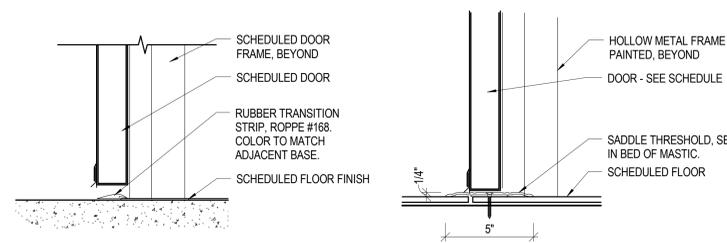
4

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GENERAL NOTE - WINDOW TYPES

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES.
B. PROVIDE CLEARANCE REQUIRED BY ACCESSIBILITY CODES ANSI A117.1 AND ADAAG AT ALL DOORS, AS DEPICTED IN DETAILS ON SHEET G0035.



GLAZING SCHEDULE

- 1 1/4" CLEAR TEMPERED
2 1/4" CLEAR

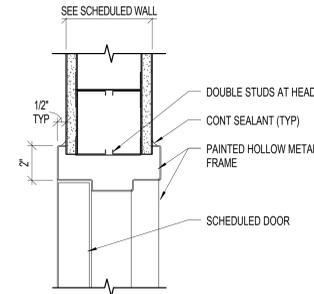
DOOR SCHEDULE NOTES
1 PROVIDE CONDUIT FOR BELL AND CAMERA
2 EXISTING DOOR TO REMAIN - PROVIDE NEW HARDWARE

E4 THRESHOLD DETAIL - RUBBER
A601 3" = 1'-0"

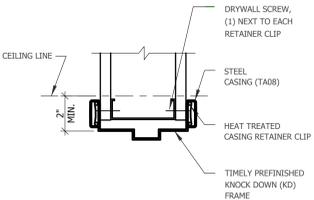
E5 THRESHOLD DETAIL - SADDLE
A601 3" = 1'-0"

DOOR SCHEDULE table with columns: NUMBER, DOOR SIZE (WIDTH, HEIGHT), TYPE, FRAME (HEAD, JAMB, THRES), FIRE RATING, HARDWARE GROUP, NOTES, NUMBER.

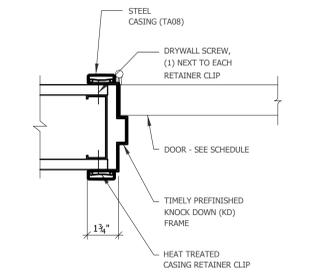
DOOR SCHEDULE table with columns: NUMBER, DOOR SIZE (WIDTH, HEIGHT), TYPE, FRAME (HEAD, JAMB, THRES), FIRE RATING, HARDWARE GROUP, NOTES, NUMBER.



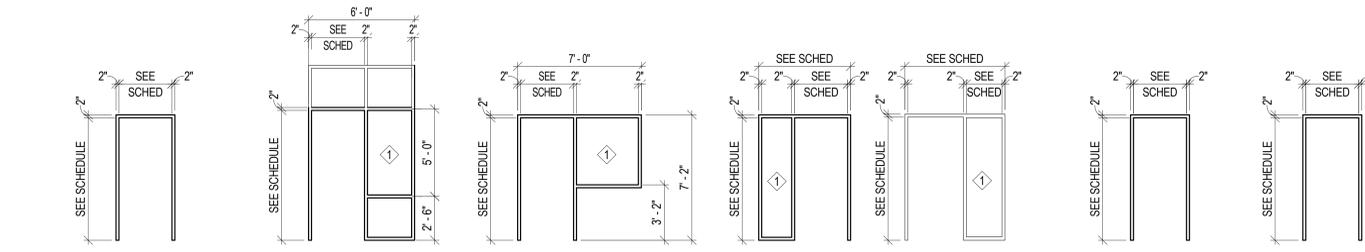
D1 DOOR HEAD DETAIL (TYP. HM)
A601 3" = 1'-0"



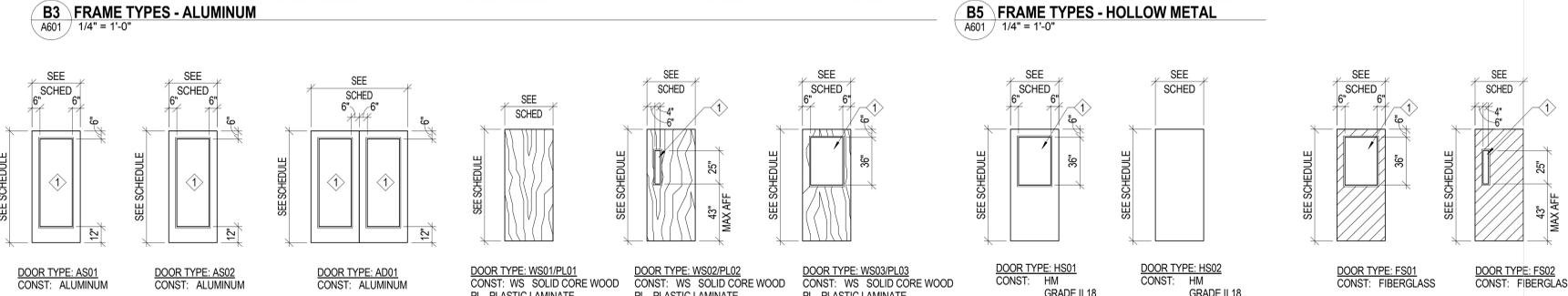
B1 KNOCK DOWN FRAME HEAD
A601 3" = 1'-0"



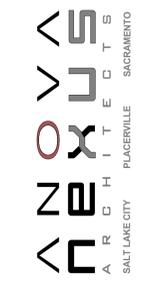
A1 KNOCK DOWN FRAME JAMB
A601 3" = 1'-0"



B3 FRAME TYPES - ALUMINUM
A601 1/4" = 1'-0"
B5 FRAME TYPES - HOLLOW METAL
A601 1/4" = 1'-0"



A3 DOOR TYPES - ALUMINUM
A601 1/4" = 1'-0"
A4 DOOR TYPES - WOOD
A601 1/4" = 1'-0"
A5 DOOR TYPES - HOLLOW METAL
A601 1/4" = 1'-0"
A6 DOOR TYPES - FIBERGLASS
A601 1/4" = 1'-0"



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Table with columns: NO., DESCRIPTION, DATE, DRAWN BY, CHECKED BY, PROJECT #.

DOOR SCHEDULES AND TYPES

A601

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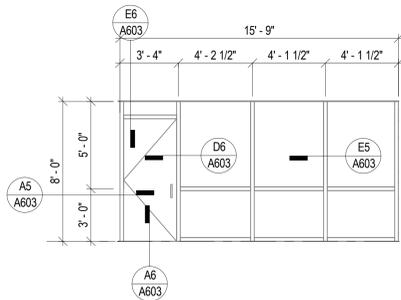


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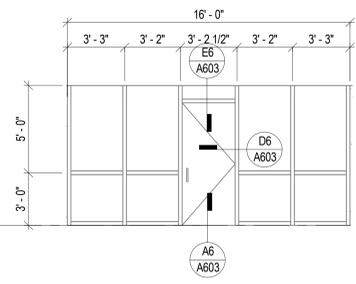


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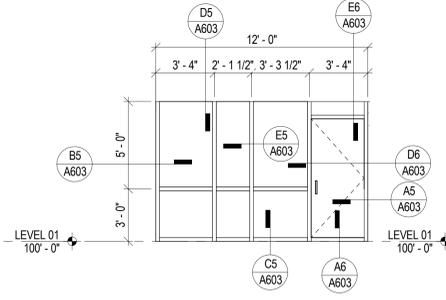
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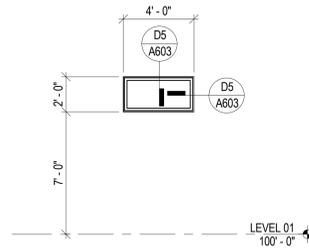
C2 WINDOW TYPE Q
A602 1/4" = 1'-0"



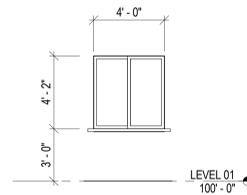
C3 WINDOW TYPE P
A602 1/4" = 1'-0"



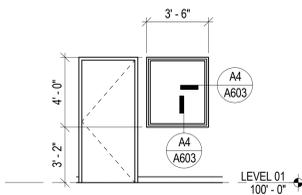
C4 WINDOW TYPE O
A602 1/4" = 1'-0"



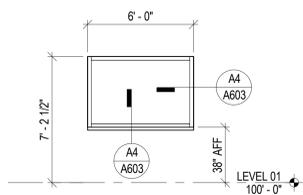
C5 WINDOW TYPE N
A602 1/4" = 1'-0"



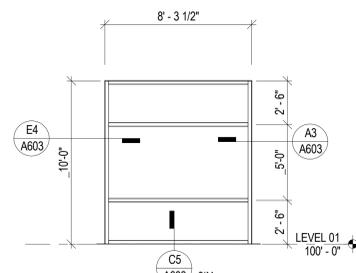
C6 WINDOW TYPE M
A602 1/4" = 1'-0"



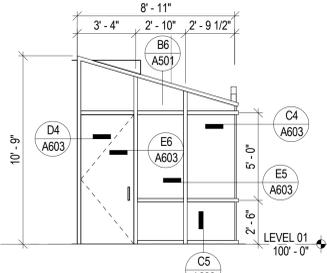
B1 WINDOW TYPE L
A602 1/4" = 1'-0"



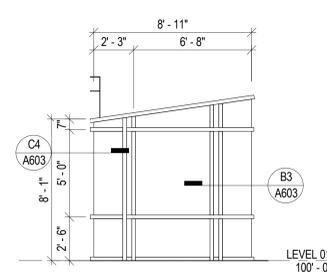
B2 WINDOW TYPE K
A602 1/4" = 1'-0"



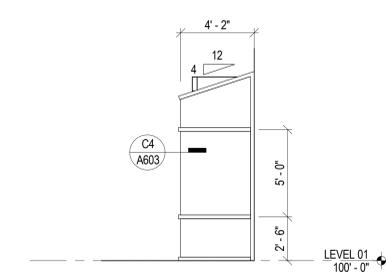
B3 WINDOW TYPE J
A602 1/4" = 1'-0"



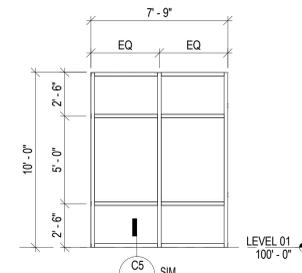
B4 WINDOW TYPE H
A602 1/4" = 1'-0"



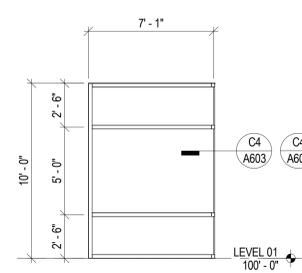
B5 WINDOW TYPE G
A602 1/4" = 1'-0"



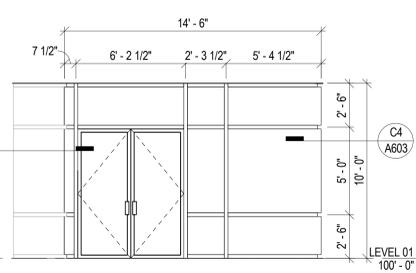
B6 WINDOW TYPE F
A602 1/4" = 1'-0"



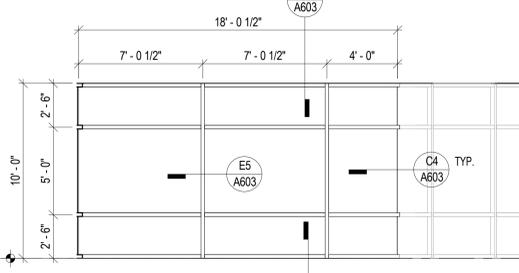
A1 WINDOW TYPE A
A602 1/4" = 1'-0"



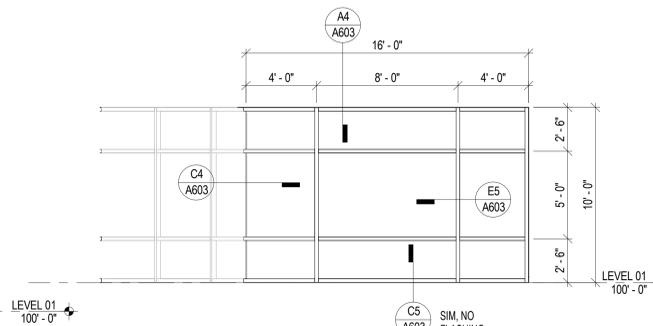
A2 WINDOW TYPE B
A602 1/4" = 1'-0"



A3 WINDOW TYPE C
A602 1/4" = 1'-0"



A4 WINDOW TYPE D
A602 1/4" = 1'-0"



A5 WINDOW TYPE E
A602 1/4" = 1'-0"

GLAZING SCHEDULE

- 1 1/4" CLEAR TEMPERED
- 2 1/4" CLEAR

REVISIONS

CONSTRUCTION DOCUMENTS SET

NEXUS PROJECT #: 13103
 CHECKED BY: CHK
 DRAWN BY: MRN
 DATE: 12/3/13

SHEET CONTENTS:

WINDOW TYPES AND DETAILS

A602

1

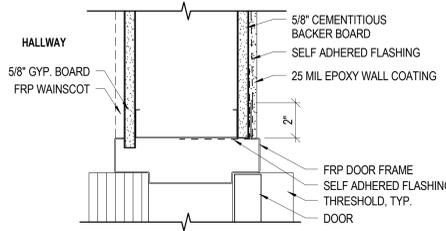
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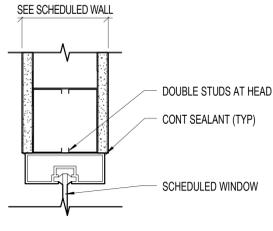
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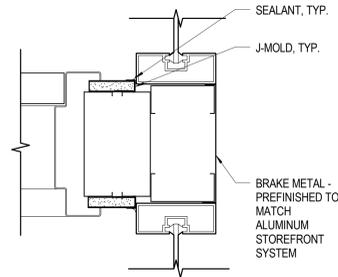
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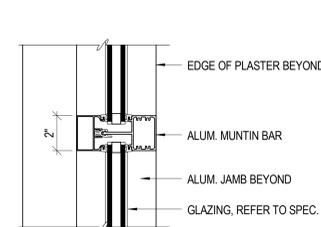
E2 INTERIOR FINISH AT FRP
A603 3" = 1'-0"



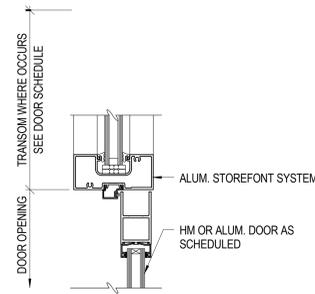
E3 HM WINDOW HEAD DETAIL (TYP.)
A603 3" = 1'-0"



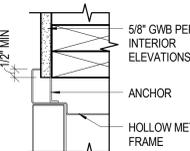
E4 HM DOOR JAMB @ INT. WINDOWS
A603 3" = 1'-0"



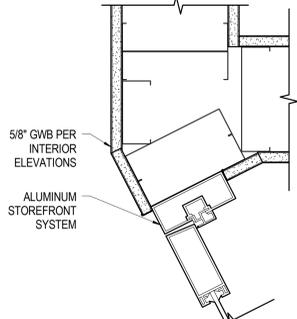
E5 TYP. ALUM. STOREFRONT MUNTIN/MULLION
A603 3" = 1'-0"



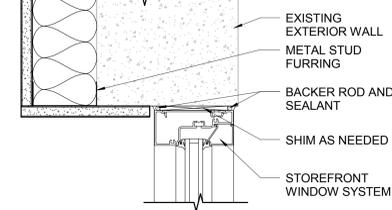
E6 DOOR HEADER/TRANSOM
A603 3" = 1'-0"



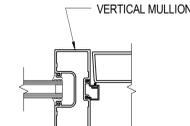
D3 INTERIOR FINISH AT HMF
A603 3" = 1'-0"



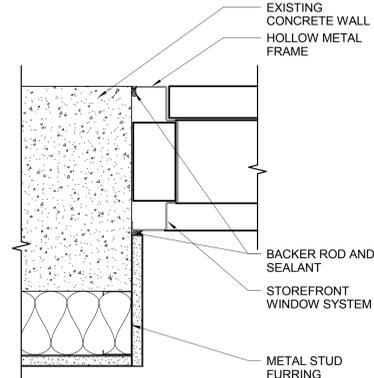
D4 HM DOOR JAMB @ INT. PARTITION
A603 3" = 1'-0"



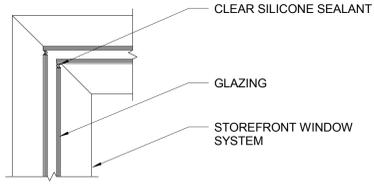
D5 EXTERIOR STOREFRONT HEAD/JAMB DETAIL
A603 3" = 1'-0"



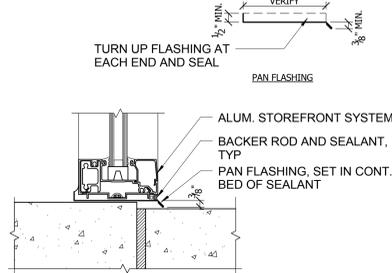
D6 EXTERIOR DOOR JAMB
A603 3" = 1'-0"



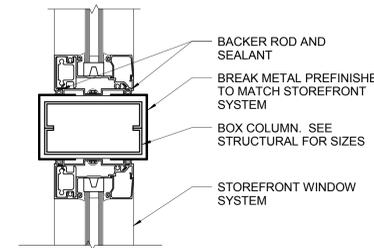
C3 EXT. HM DOOR FRAME/JAMB/HEAD DETAIL
A603 3" = 1'-0"



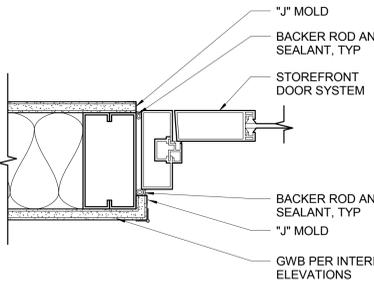
C4 INTERIOR WINDOWBUTT JOINT
A603 3" = 1'-0"



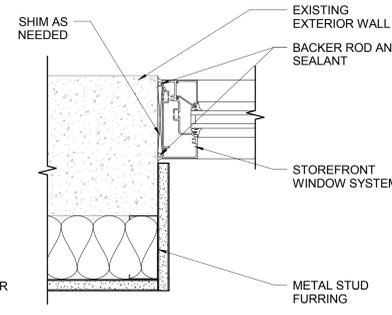
C5 EXTERIOR STOREFRONT SILL DETAIL
A603 3" = 1'-0"



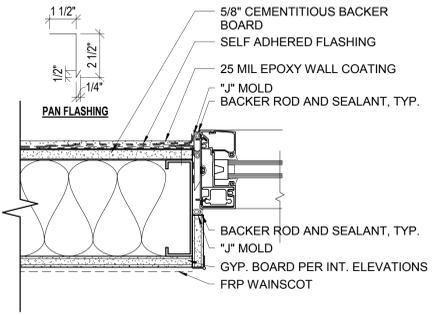
B3 INTERIOR WINDOW JAMB DETAIL
A603 3" = 1'-0"



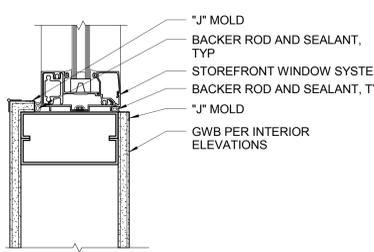
B4 INTERIOR DOOR HEAD/JAMB
A603 3" = 1'-0"



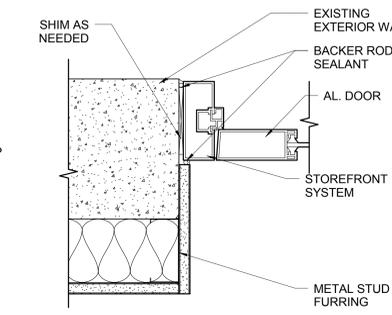
B5 EXTERIOR STOREFRONT HEAD DETAIL
A603 3" = 1'-0"



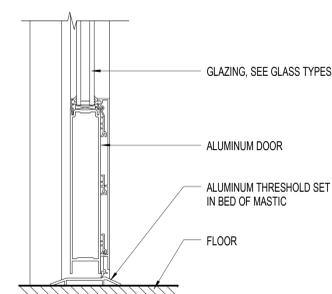
A3 EXTERIOR DOOR JAMB DETAIL
A603 3" = 1'-0"



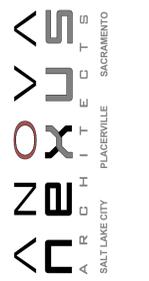
A4 INTERIOR WINDOW HEAD/JAMB/SILL
A603 3" = 1'-0"



A5 EXTERIOR STOREFRONT DOOR
A603 3" = 1'-0"



A6 STOREFRONT THRESHOLD
A603 3" = 1'-0"



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EL DORADO COUNTY
EDC ANIMAL SERVICES FACILITY
6435 CAPITAL AVE.
DIAMOND SPRINGS, CA

REVISIONS	
Date	Revision
1	1

NEXUS PROJECT #: 13103
CHECKED BY: CHK
DRAWN BY: Author
DATE: 12/3/13

SHEET CONTENTS:
WINDOW DETAILS

A603

1

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3

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5

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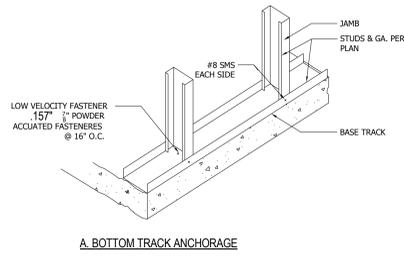
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D

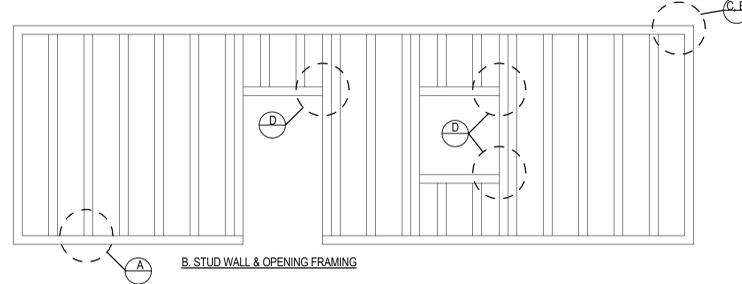
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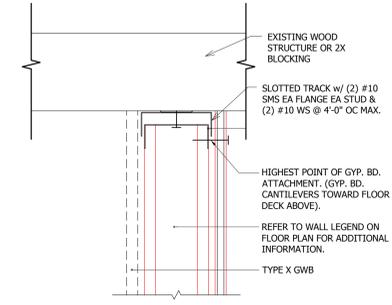
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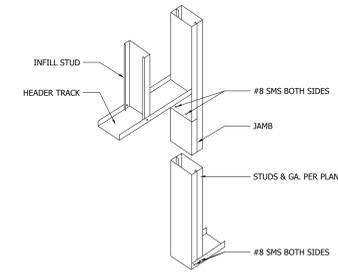
A. BOTTOM TRACK ANCHORAGE



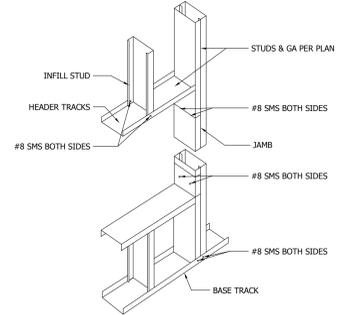
B. STUD WALL & OPENING FRAMING



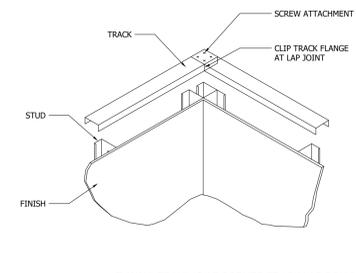
E6 DEMISING WALL HEAD
A701 3\"/>



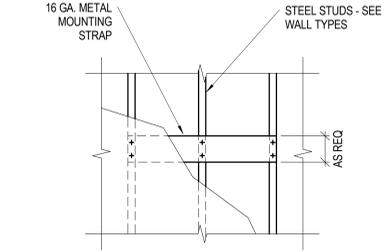
C. NON-LOAD BEARING SINGLE TRACK



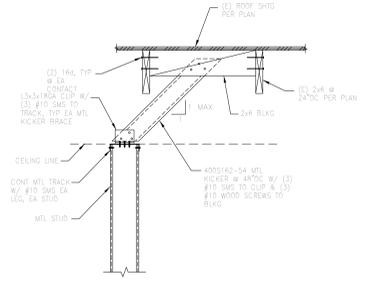
D. NON-LOAD BEARING SINGLE TRACK



E. WALL FRAMING AT CORNER TRACK LAP COLUMN

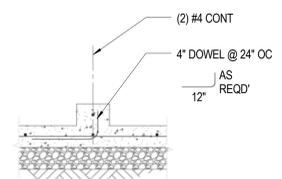


C6 MOUNTING PLATE DETAIL
A701 3\"/>

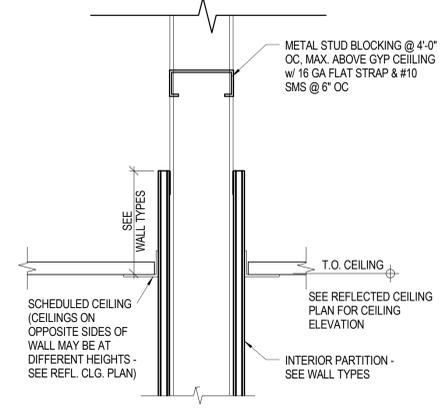


C1 NON-LOAD BEARING INTERIOR WALL FRAMED TO CEILING W/ DIAGONAL KICKER
A701 NOT TO SCALE

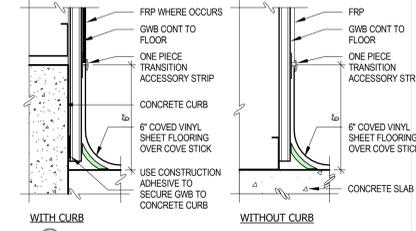
C2 STUD WALL @ FRAMING
A701 1/4\"/>



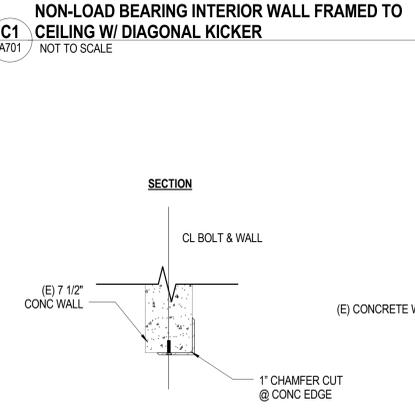
B3 SLAB DEPRESSION
A701 1\"/>



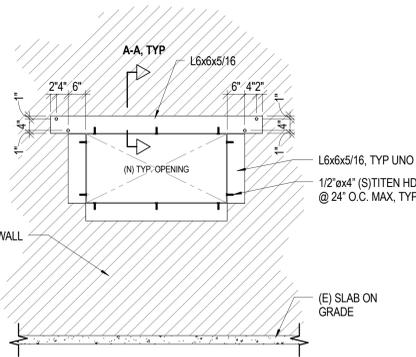
B4 TYPICAL WALL BRACING
A701 3\"/>



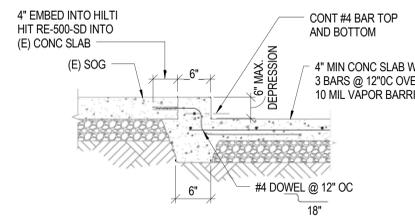
B6 BASE DETAIL
A701 3\"/>



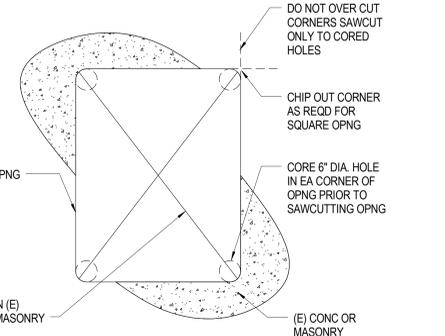
B1 CONCRETE FRAME DETAILS
A701 1\"/>



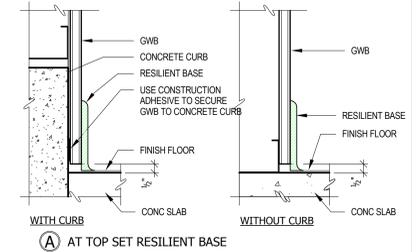
A2 FIRE EXTINGUISHER CAB. DETAIL 01
A701 3\"/>



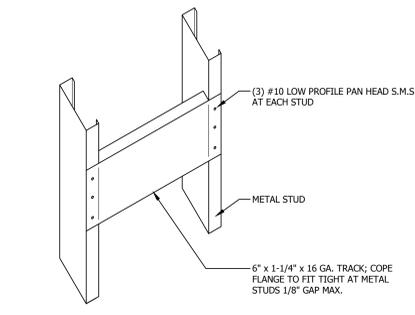
B3 SLAB DEPRESSION
A701 1\"/>



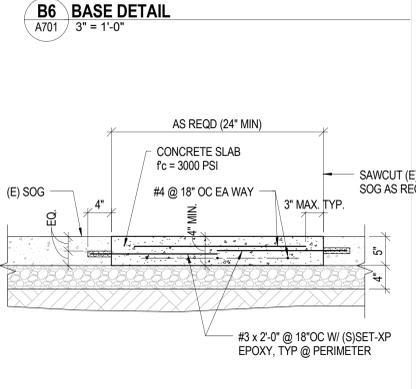
A4 SAWCUT OPENING
A701 1\"/>



B6 BASE DETAIL
A701 3\"/>



A3 METAL BACKING PLATE
A701 1 1/2\"/>



A5 TYPICAL INTERIOR CUT IN (E) SLAB
A701 1\"/>

E

D

C

B

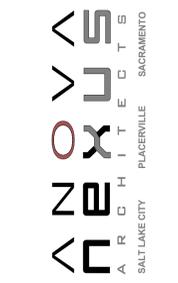
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12/30/2013 5:07:23 PM

ROOM FINISH SCHEDULE											
Room	Name	Floor	Base	Walls				Wainscot	Ceiling Type	Ceiling Height	Notes
				N	E	S	W				
101	ENTRY VEST.	SV2	SVB2	W2	W1	W1	W1	-	PTE	PTE	
102	PUBLIC LOBBY	SV2	SVB2	W1	W1	W1	W1	-	PTE	PTE	
103	WOMEN'S	SV1	SVB1	W1	W1	W1	W1	WP2	CL-02	8'-0"	
104	MEN'S	SV1	SVB1	W1	W1	W1	W1	WP2	CL-02	8'-0"	
105	RECEPTION	SV2	SVB2	W2	W1	W1	W1	-	CL-04/PTE	10'-0"/PTE	
106	INTAKE ROOM	SV2	SVB2	W1	W1	W1	W1	-	PTE	PTE	
108	SURRENDER LOBBY	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
109	VESTIBULE	SV2	SVB2	W2	W1	W1	W1	WP1	CL-01	9'-0"	
110	EXIST'G FIRE RISER	FC2	-	W1	W1	W1	W1	-	-	-	
111	INTAKE EXAM	SV2	SVB2	W2	W1	W1	W1	WP1	CL-01	9'-0"	
112	HRS OFFICE	VCT1	VB1	W2	W1	W1	W1	-	CL-01	9'-0"	
113	VOLUNTEER	VCT1	VB1	W2	W1	W1	W1	-	CL-01	9'-0"	
114	DISPLAY	EP1	EB1	W2	W1	W1	W1	WE1	PTE	PTE	
115	HALLWAY	SV2	SVB2	W1	W1	W1	W1	WE1	CL-01	8'-0"	
116	HEARING ROOM	VCT1	VB1	W2	W1	W1	W1	-	CL-05	10'-0"	
117	CAT ADOPTION	SV2	SVB2	W1	W1	W2	W1	WP1*	CL-01	10'-0"	* INSTALL SEISMIC CLIPS
118	CAT COLONY	SV2	SVB2	W1	W1	W2	W1	WP1*	CL-01	10'-0"	* INSTALL SEISMIC CLIPS
119	CAT G.A.	SV2	SVB2	W1	W1	W2	W1	WP1*	CL-01	9'-0"	* INSTALL SEISMIC CLIPS
120	HALLWAY	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	10'-0"	
121	HALLWAY	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
122	STRAY CATS	SV2	SVB2	W1	W1	W1	W1	WP1*	CL-01	9'-0"	* INSTALL SEISMIC CLIPS
123	STORAGE	VCT1	VB1	W1	W1	W1	W1	-	CL-01	8'-0"	
124	CAT ISO ROOM	SV2	SVB2	W1	W1	W1	W1	WP1*	CL-01	9'-0"	* INSTALL SEISMIC CLIPS
125	KITTEN ROOM	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	8'-0"	
126	CAT ROOM	SV2	SVB2	W1	W1	W1	W1	WP1*	CL-01	8'-0"	* INSTALL SEISMIC CLIPS
127	SMALL ANIMAL	SV2	SVB2	W1	W1	W1	W2	WP1*	CL-01	8'-0"	* INSTALL SEISMIC CLIPS
128	DOG ADOPTION ROOM	EP1	EB1	EP01	EP01	EP02	EP01	WE1	CL-03	10'-0"	
129	DOG ROOM	SV2	SVB2	EP01	EP01	EP01	EP02	WP1	CL-01	8'-0"	
130	DOG ROOM	SV2	SVB2	EP01	EP01	EP01	EP02	WP1	CL-01	8'-0"	
131	DOG ROOM	SV2	SVB2	EP01	EP01	EP01	EP02	WP1	CL-01	8'-0"	
132	DOG ROOM	SV2	SVB2	EP01	EP01	EP01	EP02	WP1	CL-01	8'-0"	
133	HALLWAY	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
134	OPEN WORKSTATIONS	VCT1 & 2	VB1	W1	W1	W2	W1	-	CL-01	9'-0"	
135	SHELTER SUPERVISOR	VCT1 & 2	VB1	W1	W2	W1	W1	-	CL-01	9'-0"	
136	CHIEF'S OFFICE	VCT1 & 2	VB1	W1	W2	W1	W1	-	CL-01	9'-0"	
137	OPERATIONS MANAGER	VCT1 & 2	VB1	W1	W1	W1	W2	-	CL-01	9'-0"	
138	DOG BEDDING	VCT1	VB1	W1	W1	W1	W1	-	CL-01	8'-0"	
139	HALLWAY/LOCKERS	VCT1 & 2	VB1	W1	W1	W1	W1	-	CL-01	9'-0"	
140	STAFF LOUNGE	VCT1 & 2	VB1	W1	W1	W2	W1	-	CL-01	9'-0"	
141	WOMEN'S	SV1	SVB1	W1	W1	W1	W1	WP2	CL-02	8'-0"	
142	MEN'S	SV1	SVB1	W1	W1	W1	W1	WP2	CL-02	8'-0"	
143	INVESTIGATIONS	VCT1 & 2	VB1	W2	W2	W2	W2	-	CL-01	9'-0"	
144	EVIDENCE STOR.	VCT1	VB1	W1	W1	W1	W1	-	CL-02	8'-0"	
145	HALLWAY	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
146	LAUNDRY	SV1	SVB1	W1	W1	W1	W1	WP1	CL-01	9'-0"	
147	GROOMING	SV1	SVB1	W1	W1	W1	W1	WP1	CL-01	9'-0"	
148	HALLWAY	SV1	SVB1	W1	W1	W1	W1	WP1	CL-01	9'-0"	
149	DOG ADOPTION	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
150	DOG ADOPTION	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
151	DOG ADOPTION	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
152	DOG ADOPTION	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
153	DATA ROOM	FC2	VB1	W1	W1	W1	W1	-	CL-01	8'-0"	
154	STORAGE DISH WASH	SV1	SVB1	W1	W1	W1	W1	WP1	CL-01	9'-0"	
155	DOG FOOD PREP	SV1	SVB1	W1	W1	W1	W1	-	CL-01	9'-0"	
156	CHEM ROOM	FC2	VB1	W1	W1	W1	W1	WP1	CL-01	9'-0"	
157	INTAKE DATA ENTRY	SV2	SVB2	W1	W1	W2	W1	WP1	CL-01	9'-0"	
158	INTAKE EXAMINATION	SV2	SVB2	W2	W1	W1	W1	WP1	CL-01	9'-0"	
159	DOG HOLDING	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
160	DOG QUARANTINE	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
161	DOG ISOLATION	EP1	EB1	EP01	EP01	EP01	EP01	WE1	CL-03	10'-0"	WAINSCOT 7' - 0" HIGH
162	DOG HOLDING PROT-CUST	EP1	EB1	WE1	W1	W1	W1	7' - 0"	CL-03	10'-0"	
163	FUTURE EXAM	FC2	-	W1	W1	W1	W1	-	-	-	
164	DOG ISO FOOD	SV1	SVB1	W1	W1	W1	W1	-	CL-01	8'-0"	
165	HALLWAY	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
166	JANITOR	FC2	-	W1	W1	W1	W1	WP2*	CL-01	8'-0"	* SEE INTERIOR ELEVATION FOR EXTENT
167	STORAGE	VCT1	VB1	W1	W1	W1	W1	-	CL-01	8'-0"	
168	EUTHANASIA	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
169	COOLER	SV2	SVB2	W1	W1	W1	W1	-	CL-01	8'-0"	
170	DOG EVALUATION	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	9'-0"	
171	REPTILES	SV2	SVB2	W1	W1	W1	W1	WP1	CL-01	8'-0"	
172	HALLWAY	SV2	SVB2	W1	W1	W1	W1	-	CL-01	9'-0"	
173	FUTURE RECOVERY	FC2	-	W1	W1	W1	W1	-	-	-	
174	FUTURE SURGERY	FC2	-	W1	W1	W1	W1	-	-	-	
175	EXIST'G ELEC	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	-	
176	UNASSIGNED SPACE	-	-	-	-	-	-	-	-	-	

ROOM FINISH LEGEND	
FLOOR FINISHES	
CP	CARPET
CP1	CARPET
EP	EPOXY
EP1	EPOXY 01
FC	FINISHED CONCRETE
FC2	SEALED CONCRETE
SV	SHEET VINYL
SV1	SHEET VINYL - COLOR 01
SV2	SHEET VINYL - COLOR 02
VCT	VINYL COMPOSITION TILE
VCT4	VINYL COMPOSITION TILE
BASE FINISHES	
VB	VINYL BASE
VB1	4" VINYL BASE
	SHEET VINYL BASE
SVBSVB1	4" INTEGRAL COVED SHEET VINYL BASE - COLOR 01
SVB2	4" INTEGRAL COVED SHEET VINYL BASE - COLOR 02
	EPOXY BASE
EB	INTEGRAL COVED EPOXY BASE
WALL FINISHES	
W	WALL
W1	PAINTED GYP. BD. - COLOR 01
W2	PAINTED GYP. BD. - COLOR 02
EP01	EPOXY PAINT COLOR 01
WP	WALL PANEL
WP1	WALL PANEL - FIBERGLASS REINFORCED PANEL (FRP)
WP2	WALL PANEL - FIBERGLASS REINFORCED PANEL (FRP)
WE	EPOXY WAINSCOT
WE1	EPOXY WAINSCOT
CEILING FINISHES	
C	CEILING
CL-01	2'x4' ACOUSTICAL PANEL CEILING
CL-02	GYP. BD. PAINTED
CL-03	2'x4' WASHABLE ACOUSTICAL PANEL CEILING
CL-04	2'x2' ACOUSTICAL PANEL CEILING
CL-05	2'x4' SCORED TEGULAR ACOUSTICAL PANEL CEILING
PT	NO CEILING
PTE	EXPOSED STRUCTURE, PAINTED

* WAINSCOT IS 3' - 2" A.F.F. TYP. U.N.O. ON INTERIOR ELEVATIONS



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EL DORADO COUNTY
EDC ANIMAL SERVICES FACILITY
6435 CAPITAL AVE.
DIAMOND SPRINGS, CA

REVISIONS

CONSTRUCTION DOCUMENTS SET
NEXUS PROJECT # 13103
CHECKED BY: CHK
DRAWN BY: MRN
DATE: 12/3/13

SHEET CONTENTS:
FINISH SCHEDULE

AI601



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**EL DORADO COUNTY
 EDC ANIMAL SHELTER FACILITY**
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA

REVISIONS

GLUMAC PROJECT #: 03.13.00602
 CHECKED BY: RM
 DRAWN BY: DV
 DATE: 12/3/13

SHEET CONTENTS:

**PLUMBING
 ABBREVIATIONS,
 LEGENDS & SHEET INDEX**

P0.0

GENERAL NOTES

- ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH PLUMBING SPECIFICATIONS.
- AS-BUILT RECORD DOCUMENTS: AT PROJECT CLOSEOUT, CONTRACTOR SHALL SUBMIT DETAILED INSTALLATION DRAWINGS, CHANGE ORDERS AND SPECIFICATION CHANGES TO ARCHITECT FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
- ALL EXCAVATORS MUST COMPLY WITH ALL STATE AND LOCAL REQUIREMENTS INCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND UTILITIES AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION.
- CONTRACTOR TO COORDINATE INSTALLATION OF GAS SERVICE WITH THE LOCAL UTILITY COMPANY, CONTACT ENGINEERING DEPARTMENT. ALL EXTERIOR GAS PIPING SHALL BE PAINTED.
- DETAILED INVESTIGATION OF EXISTING CONDITIONS ARE PART OF THE CONTRACT WORK. VISIT THE JOB SITE PRIOR TO BID. REVIEW AVAILABLE EQUIPMENT LAYOUTS, ASSEMBLY DRAWINGS AND INSTALLATION SCHEDULES.
- CONTRACTOR SHALL COORDINATE ALL UTILITY LINES EXITING OR ENTERING BUILDING WITH DIVISION 2 SPECIFICATIONS AND CIVIL ENGINEER'S UTILITY PLAN DRAWINGS AND OTHER TRADES.
- BARRIER FREE REQUIREMENTS: PROVISIONS HAVE BEEN DESIGNED TO PROVIDE FIXTURES IN ACCORDANCE WITH ADA, ANSI AND STATE REGULATIONS. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND REPORT TO ARCHITECT OR OWNER'S REPRESENTATIVE WHEN FIELD CONDITIONS PREVENT CORRECT INSTALLATION.

PLUMBING DRAWING LIST

P0.0	PLUMBING ABBREVIATIONS, LEGEND AND SHEET INDEX
P0.1	PLUMBING BASIS OF DESIGN
P0.2	PLUMBING SCHEDULES
P1.1	PLUMBING SITE PLAN
P2.0	PLUMBING UNDERSLAB FLOOR PLAN - WASTE AND VENT
P2.1	PLUMBING FLOOR PLAN - WASTE AND VENT
P2.2	PLUMBING FLOOR PLAN - HOT WATER, COLD WATER AND GAS
P2.3	PLUMBING ROOF PLAN
P4.1	PLUMBING GAS PIPING DIAGRAM
P6.1	PLUMBING ENLARGED FLOOR PLAN
P9.1	PLUMBING DETAILS
P9.2	PLUMBING DETAILS
P9.3	PLUMBING ENLARGED TRENCH DETAIL

ABBREVIATIONS

ABV	ABOVE	SD	STORM DRAIN
AD	ACCESS DOOR	SF	SQUARE FEET
ADA	AMERICANS WITH DISABILITIES ACT	SHT	SHEET
AFF	ABOVE FINISHED FLOOR	SN	SHEET NOTE
AFG	ABOVE FINISHED GRADE	SOV	SHUT-OFF VALVE
AP	ACCESS PANEL	SPR	SPRINKLER
ARCH	ARCHITECT	SS	STAINLESS STEEL
ASR	AUTO FIRE SPRINKLER RISER	SV	SOLENOID VALVE
BEL	BELOW	TB	THRUST BLOCK
BFV	BUTTERFLY VALVE	TP	TRAP PRIMER
BHP	BRAKE HORSEPOWER	TS	TAMPER SWITCH
BTU	BRITISH THERMAL UNIT	TT	TEST TEE
BV	BALL VALVE	TYP	TYPICAL
BWV	BACKWATER VALVE	U	URINAL
CA	COMPRESSED AIR	UN	UNION
CD	CONDENSATE DRAIN	VB	VACUUM BREAKER
CF	CAP FOR FUTURE	V	VENT
CFH	CUBIC FEET PER HOUR	VTR	VENT THROUGH ROOF
CFM	CUBIC FEET PER MINUTE	W	WASTE
CFS	CUBIC FEET PER SECOND	WC	WATER CLOSET
CI	CAST IRON	WHA	WATER HAMMER ARRESTOR
CLG	CEILING	WCO	WALL CLEANOUT
CLN	CLEANOUT	W/	WITH
CONC	CONCRETE	WGT	WEIGHT
CONN	CONNECTION	YB	YARD BOX
CONTR	CONTRACTOR		
CONT	CONTINUATION		
CS	CIRCUIT SETTER		
CV	CHECK VALVE		
CW	COLD WATER		
CWFU	COLD WATER FIXTURE UNIT		
DN	DOWN		
DCVA	DOUBLE CHECK VALVE ASSEMBLY		
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY		
DFU	DRAINAGE FIXTURE UNIT		
HWR	HOT WATER RECIRC		
DIA	DIAMETER		
DSN	DOWNSPOUT NOZZLE		
D	DRAIN		
DWG	DRAWING		
DWV	DRAINAGE WASTE AND VENT		
EXIST	EXISTING		
ELEC	ELECTRICAL		
FA	FLOW ALARM		
FC	FLEXIBLE CONNECTION		
FCO	FLOOR CLEANOUT		
FDV	FIRE DEPARTMENT VALVE		
FDVC	FIRE DEPARTMENT VALVE CABINET		
FFE	FINISHED FLOOR ELEVATION		
FH	FIRE HYDRANT		
FHV	FIRE HOSE VALVE		
FIN	FINISHED		
FLR	FLOOR		
FLSW	FLOW SWITCH		
FO	FUEL OIL		
FPS	FEET PER SECOND		
FRM	FROM		
FT	FEET		
FT	FLUSH TANK		
FU	FIXTURE UNIT		
FUT	FUTURE		
FV	FLUSH VALVE		
G	GAS		
GAL	GALLONS		
GC	GAS COCK		
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
GV	GATE VALVE		
HD	HUB DRAIN		
HP	HORSEPOWER		
HW	HOT WATER		
HWFU	HOT WATER FIXTURE UNIT		
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS		
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS		
IE	INVERT ELEVATION		
IRR	IRRIGATION		
LAV	LAVATORY		
LBS	POUNDS (UNIT OF FORCE)		
LP	LUBRICATED PLUG VALVE		
MAX	MAXIMUM		
MBH	THOUSANDS BTU/HR		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MH	MANHOLE		
NC	NORMALLY CLOSED		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NO	NORMALLY OPEN OR NUMBER		
NIC	NOT IN CONTRACT		
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
OW	OIL WASTE		
POC	POINT OF CONNECTION		
PLBG	PLUMBING		
PRV	PRESSURE REDUCING VALVE		
PS	PRESSURE SWITCH		
PSI	POUNDS PER SQUARE INCH		
PT	PRESSURE TEMPERATURE TRAP (PETE'S PLUG)		
PV	PROCESS VENT		
PV	PLUG VALVE		
Ri&C	ROUGH IN AND CONNECT		
RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		
RPM	REVOLUTIONS PER MINUTE		
RV	RELIEF VALVE		

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TRAP PIMER		DIRECTION OF SLOPE
	BALL VALVE		DIRECTION OF FLOW
	BUTTERFLY VALVE		PIPE UP OR UP & DN
	GATE VALVE		PIPE DOWN
	BALANCING VALVE		PIPE DROP
	SHUT OFF VALVE IN CONCRETE YARD BOX		TOP CONNECTION - BRANCH LINE
	ANGLE GATE VALVE		BOTTOM CONNECTION - BRANCH LINE
	OS & Y GATE VALVE (OUTSIDE SCREW & YOKE GATE VALVE)		FIRE MAIN
	OS & Y GATE VALVE WITH TAMPER SWITCH		AUTOMATIC WET SPRINKLER
	SOLENOID VALVE		COLD WATER
	LUBRICATED PLUG VALVE		HOT WATER (120°F)
	CHECK VALVE		HOT WATER CIRC (110°F)
	PRESSURE REDUCING VALVE		HOT WATER (140°F)
	RELIEF VALVE		HOT WATER CIRC (122°F)
	VACUUM RELIEF VALVE		SANITARY SEWER, WASTE OR SOIL BELOW GRADE OR FLOOR
	PRESSURE & TEMPERATURE RELIEF VALVE		STORM DRAIN
	AUTOMATIC AIR VENT		PIPING BELOW GRADE
	CIRCUIT SETTER		WASTE, OR SOIL ABOVE GRADE OR FLOOR
	BACKWATER VALVE		VENT
	DOUBLE DETECTOR CHECK VALVE ASSEMBLY		ROOF DRAIN PIPING, THE PIPES FROM ROOF DRAIN SD (STORM DRAIN)
	DOUBLE CHECK VALVE ASSEMBLY		OVERFLOW DRAIN PIPING
	REDUCED PRESSURE BACKFLOW PREVENTER		PUMPED DISCHARGE
	PRESSURE SWITCH		DRAIN LINE
	FLOW ALARM		INDIRECT WASTE
	FLOW SWITCH		GREASE WASTE
	UNION		PROCESS WASTE
	STRAINER		PROCESS VENT
	STRAINER WITH BLOW OFF HOSE BIBB		NATURAL GAS (7"W.C.)
	PIPE ANCHOR		MEDIUM PRESSURE GAS (2 PSIG TO 5 PSIG)
	PIPE ALIGNMENT GUIDE		LOW PRESSURE GAS
	EXPANSION JOINT		COMPRESSED AIR
	FLEXIBLE CONNECTOR		COMPRESSED AIR
	CAP OR PLUG		EXISTING PIPE
	BLIND FLANGE		FUEL OIL SUPPLY
	CONCENTRIC REDUCER		FUEL OIL RETURN
	ECCENTRIC REDUCER		FUEL OIL VENT
	AQUASTAT		INDUSTRIAL COLD WATER
	WATER HAMMER ARRESTOR		INDUSTRIAL HOT WATER
	PRESSURE GAUGE WITH COCK		INDUSTRIAL HOT WATER RETURN
	THERMOMETER		TEMPERED WATER
	CLEANOUT/WALL CLEANOUT		TEMPERED WATER RETURN
	FLOOR CLEANOUT		VACUUM
	YARD CLEANOUT		DEIONIZED WATER
	TEST TEE		OXYGEN
	WALL HYDRANT		NITROGEN
	HOSE BIBB		COMBINATION STAND PIPE
	YARD HYDRANT		DRY STAND PIPE
	THRUST BLOCK		COMBINATION STAND PIPE
	FIRE DEPARTMENT CONNECTION		ACID WASTE
	AUTO FIRE SPRINKLER RISER		ACID VENT
	FIRE DEPARTMENT VALVE		EXISTING TO BE REMOVED
	FIRE DEPARTMENT VALVE CABINET		PLUMBING EQUIPMENT
	FIRE SPRINKLER FLOOR CONTROL VALVE		MISCELLANEOUS EQUIPMENT
	SIEMESE FIRE DEPT. CONN.		SHEET NOTE
	FIRE HOSE VALVE		DETAIL NO.
	FIRE ALARM BELL		SHEET NO.
	FLOOR DRAIN		POINT OF CONNECTION / DISCONNECT
	FLOOR SINK W/ GRATE AS SHOWN		
	HUB DRAIN		
	ROOF RECEPTOR		
	DECK DRAIN, PLANTER DRAIN		

CONSTRUCTION DOCUMENTS SET

PLUMBING BASIS OF DESIGN

NOTES SHOWN IN BLUE TEXT ARE HIDDEN AND WILL NOT PRINT. THESE ARE NOTES TO THE EDITOR TO PROVIDE ADDITIONAL DIRECTION AND MAY REQUIRE A DECISION. THESE NOTES CAN BE EDITED BY MODIFYING THE FONT, IF DESIRED. AND, TO TURN COMMENTS ON/OFF SIMPLY CLICK THE # SYMBOL (SHOW/HIDE) TYPICALLY LOCATED IN THE UPPER RIBBON BAR. ALL NOTES THAT ARE HIGHLIGHTED REQUIRE A DECISION THAT MAY INVOLVE DELETING UNNECESSARY INFORMATION SUCH AS STATE SPECIFIC INFORMATION.

THE OUTLINE FORMAT OF THE BOD HAS ADOPTED THE STANDARD SPECIFICATION FORMAT SO THE BOD CAN BE EASILY BE USED IN AUTOCAD AND INSERTED INTO A WORD DOCUMENT. THE FINAL BOD CAN EASILY BE CUT AND PASTED INTO AN AUTOCAD MULTILINE TEXT BOX WITHOUT LOSING THE FORMATTING. THE TEXT WILL NEED TO BE CHANGED TO OUR STANDARD AUTOCAD FONT AND ALL HIDDEN NOTES NEED TO BE DELETED IN AUTOCAD AS THESE ARE VIEWABLE IN AUTOCAD. AS AN ADDED BENEFIT FORMAT OUTLINE FORMAT OF THE BOD MAY BE INSERTED AT THE BEGINNING OF THE BASIS SPEC SECTION UNDER PART 1 –GENERAL IS DESIRED ON A PARTICULAR PROJECT. THIS SOMETIMES IS REQUIRED BY A PARTICULAR CLIENT. ALSO THE BOD CAN EASILY BE ADOPTED FOR A PROJECT NARRATIVE FOR SCHEMATIC AND DESIGN DEVELOPMENT PHASES.

PLUMBING BASIS OF DESIGN
 NOTE TO EDITOR – PROVIDE A BRIEF DESCRIPTION OF THE BUILDING AND THE PROPOSED SYSTEMS. EDIT AS NECESSARY.
 A. THIS BUILDING IS AN EXISTING 16,000 SQUARE FOOT SINGLE-STORY TILT-UP CONCRETE CONSTRUCTED BUILDING WITH SINGLE PLY ROOFING. PLUMBING DESIGN CONSISTS OF REMODELING OF THE ORIGINAL PLUMBING SYSTEM INSTALLED IN 2000 TO SUIT TENANT IMPROVEMENTS OF A NEW ANIMAL SHELTER FACILITY.

- B. CODES AND STANDARDS**
1. AMERICANS WITH DISABILITIES ACT (ADA)
 - NOTE TO EDITOR – DELETE THE STATE CODE REFERENCES THAT DO NOT APPLY.
 2. CALIFORNIA BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
 - a. 2010 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (BASED ON THE 2009 INTERNATIONAL BUILDING CODE WITH STATE AMENDMENTS)
 - b. 2010 CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 5 (BASED ON 2009 UNIFORM PLUMBING CODE WITH STATE AMENDMENTS)
 - c. 2008 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD FOR NONRESIDENTIAL COMPLIANCE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6
 - d. 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 11

- c. OUTDOOR DESIGN CONDITIONS (FOR INSULATION AND GAS FIRING CRITERIA)
 1. WINTER: 28°F (ASHRAE 0.2%, PLACERVILLE, CA)
2. ELEVATION: 1785 FT.
 - d. SITE WATER SUPPLY
 1. MINIMUM AVAILABLE WATER PRESSURE (STATIC): 50 PSI AVAILABLE FROM MUNICIPAL WATER SERVICE
 2. EXISTING COLD WATER PIPE SIZE: 1-1/4 INCHES
 3. COLD WATER METER SIZE: 1 INCH
 4. PROJECT COLD WATER DEMAND: 150 GPM (DESIGN TOTAL)

- E. DOMESTIC COLD WATER:**
1. AN ADDITIONAL 2-1/2" COLD WATER BUILDING SUPPLY IS REQUIRED DUE TO THE INCREASED COLD WATER DEMAND.
 2. A NEW 2" METER OR REPLACE EXISTING METER AND SITE PIPING TO ACCOMMODATE TOTAL LOAD.
 3. REFER TO PLUMBING CALCULATIONS AND SCHEDULES FOR ADDITIONAL CRITERIA.

- F. DOMESTIC HOT WATER:**
1. DOMESTIC HOT WATER SUPPLY TEMPERATURE: 105°F (PUBLIC AREAS)
 2. DOMESTIC HOT WATER SUPPLY TEMPERATURE: 120°F (NON-PUBLIC AREAS)
 3. DOMESTIC HOT WATER RECIRCULATION TEMPERATURE: 95°F. ABOVE THIS TEMPERATURE THE RECIRCULATING PUMP WILL BE OFF.
 4. DOMESTIC HOT WATER SUPPLY TEMPERATURE: 160°F (LAUNDRY AREA)
 5. DOMESTIC HOT WATER RECIRCULATION TEMPERATURE: 145°F. ABOVE THIS TEMPERATURE THE RECIRCULATING PUMP WILL BE OFF.
 6. DOMESTIC INCOMING COLD WATER TEMPERATURE: 40°F (USED FOR WATER HEATER SIZING)
 7. DOMESTIC WATER HEATER SET POINT TEMPERATURE: 160°F
 8. DOMESTIC SHOWER DEMAND PERIOD: 2 HOURS BETWEEN 6 AM AND 8 AM AND 6PM AND 8PM.
 9. DEMAND PERIOD FOR PEAK SHOWER WATER USAGE: 7 MINUTES PER SHOWER AND 4 SHOWERS PER HOUR OR 28 MINUTES PER HOUR PER SHOWER COMPARTMENT.

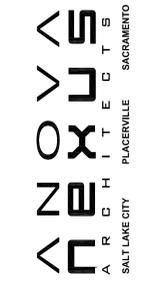
- G. SANITARY SEWER:**
1. EXISTING BUILDING SEWER SIZE 4 INCH AT 1% SLOPE AND WILL SERVE THE EAST SIDE OF THE BUILDING WITH NEW BRANCH TAPS.
 2. NEW BUILDING SEWER SIZE 4 INCH AT 2% SLOPE AND WILL SERVE THE WEST SIDE OF THE BUILDING. THE NEW 4 INCH SANITARY SEWER WILL CONNECT TO AN EXISTING SANITARY MANHOLE ON THE PROPERTY.
 3. TOTAL CAPACITY OF NEW 4 INCH SANITARY SEWER PIPE IS 216 DRAINAGE FIXTURE UNITS (HORIZONTAL).
 4. A TOTAL CONNECTED LOAD OF 168 DRAINAGE FIXTURE UNITS WILL BE DISCHARGED INTO THE EXISTING MANHOLE.

- H. STORM DRAIN:**
1. RAINFALL INTENSITY 3 INCHES/HOUR (PER LOCAL ORDINANCE)
 1. PROPANE GAS SERVICE:
 1. PROPANE PROVIDER: LOCAL PROPANE SUPPLIER CONTRACTED WITH COUNTY.
 2. DELIVERY OF LOW PRESSURE PROPANE: 11 INCHES WATER COLUMN
 3. MAXIMUM DEMAND: 1610 CUBIC FEET PER HOUR
 4. REFER TO PLANS FOR PROPANE SIZING CALCULATIONS

- J. SEISMIC:**
1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

NOTE TO EDITOR – EDIT FOR ANY FEATURES THAT CAN BE CONSIDERED TO MEET THE SUSTAINABLE GOALS OF THE PROJECT.

- K. THE PLUMBING SYSTEM INCLUDES THE FOLLOWING SUSTAINABLE PROJECT SPECIFIC DESIGN FEATURES:**
1. DUAL FLUSH MANUAL ACTIVATED WITH WATER FLOWS OF 1.6/1.1 GALLON PER FLUSH AT EACH TOILET.
 2. TWO CONDENSING-TYPE HIGH EFFICIENCY DOMESTIC WATER HEATERS.
 3. MANUAL ACTIVATED METERING TYPE LAVATORY FAUCETS FOR REDUCED WATER FLOW.
 4. THE EXISTING 40 GALLON ELECTRIC WATER HEATER LOCATED IN THE EXISTING CUSTODIAN ROOM IS SCHEDULED TO REMAIN AND WILL SERVE THE MODERNIZED MEN AND WOMEN'S RESTROOMS ON THE EASTSIDE OF THE BUILDING. THE EXISTING 1-1/4" COLD WATER SUPPLY AND EXISTING 1" HOT WATER PIPING ABOVE THE CEILING WILL REMAIN AS IS AND WILL SERVE THE MODERNIZED MEN AND WOMEN'S RESTROOMS.
 5. NEW DUAL TEMPERATURE DOMESTIC HOT WATER DISTRIBUTION: PROVISION FOR TWO NEW GAS FIRED DOMESTIC HOT WATER HEATERS WILL BE USED TO SUPPLY AND MAINTAIN A MINIMUM WATER TEMPERATURE OF 160 DEGREE F. THE 160 DEGREE F HOT WATER WILL BE DISTRIBUTED TO THE LAUNDRY AREA ONLY BY A DEDICATED PIPING SYSTEM. THE 160 DEGREE F PIPING WILL HAVE A HOT WATER RETURN LOOP COMPLETE WITH A DEDICATED RECIRCULATION PUMP. A PORTION OF THE 160 DEGREE F HOT WATER SUPPLY WILL BE MIXED DOWN VIA A THERMOSTATIC MIXING VALVE TO 120 DEGREE F. THE 120 DEGREE F HOT WATER WILL BE DISTRIBUTED TO THE REMAINING BUILDING AREAS BY A DEDICATED PIPING SYSTEM. THE 120 DEGREE F PIPING WILL HAVE A HOT WATER RETURN LOOP COMPLETE WITH A DEDICATED RECIRCULATION PUMP. ALL DOMESTIC HOT WATER PIPING WILL BE LOCATED TO EXPEDITE HOT WATER SERVICE TO ANY FIXTURE WITHIN 30 SECONDS. BOTH DOMESTIC HOT WATER RETURN PUMPS WILL BE CONNECTED TO ITS OWN INDEPENDENT TIME CLOCK WITH A DEDICATED RETURN WATER TEMPERATURE CONTROLLER.
 6. A SPECIALIZED ANIMAL HOLDING CHEMICAL CLEANING SYSTEM WILL BE INCORPORATED INTO THE DESIGN. THE CHEMICAL CLEANING SYSTEM WILL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE CHEMICAL CLEANING EQUIPMENT SUPPLIER. THE CHEMICAL CLEANING PIPING WILL BE DISTRIBUTED TO THE ANIMAL HOLDING AREAS HOSE BIBS AND PROVIDED AND INSTALLED BY THE CHEMICAL CLEANING SUPPLIER. WALL MOUNTED HOSE BIBS FOR THE CHEMICAL CLEANING SYSTEM WILL BE INSTALLED UNDER THE PLUMBING SCOPE OF WORK. THE HOLDING AREA WASH-DOWN WILL BE COMPLETE WITH TRENCH DRAINS AND AN AUTO/MANUAL TRENCH DRAIN FLUSHING SYSTEM INSTALLED BY THE GENERAL CONTRACTOR. HOLDING AREA DRAINAGE WILL NOT REQUIRE ANY SPECIALIZED TREATMENT PRIOR TO CONNECTING WITH THE SITE SANITARY SYSTEM.
 7. A COMMERCIAL GRADE WASHER AND GAS DRYER WILL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR. HIGH TEMPERATURE WATER AND SPECIALIZED EQUIPMENT DRAINAGE WILL BE INCORPORATED INTO THE PLUMBING DESIGN.
 8. A COMMERCIAL GRADE DISHWASHER WILL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR. THE DISHWASHER WILL COME EQUIPPED WITH AN ELECTRIC BOOSTER HEATER. THE DISHWASHER WILL BE CONNECTED TO THE 120 DEGREE F HOT WATER SYSTEM.
 9. PROVISIONS FOR PLUMBING EXPANSION INTO THE FUTURE SURGERY AND EXAM AREA WILL BE PROVIDED BY UNDER SLAB PLUGGED WASTE STUBS AND VALVED AND CAPPED HOT AND COLD WATER PIPING TERMINATING ABOVE THE CEILING.
 10. THROUGH THE COUNTY THE FACILITY WILL CONTRACT WITH A LOCAL PROPANE SUPPLIER FOR A NEW PROPANE TANK AND TANK ACCESSORIES. PROPANE PIPING DISTRIBUTION FROM THE SITE LOCATED TANK AND EQUIPMENT SERVED WILL BE UNDER THE PLUMBING SCOPE OF WORK.
 11. SPECIALIZED PLUMBING FIXTURES WILL BE SCHEDULED TO MEET THE FACILITY NEEDS AND REQUIREMENTS.
 12. INDIVIDUAL KENNEL SPACE DOG WATERING DEVICE IS NOT SCHEDULED TO BE INCLUDED UNDER THIS SCOPE OF WORK.



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 EDC ANIMAL SHELTER FACILITY
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA**

#	REVISIONS

GLUMAC PROJECT #: 03.13.00602
 CHECKED BY: RM
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 DATE: 12/3/13

SHEET CONTENTS:
**PLUMBING
 BASIS OF
 DESIGN**

P0.1

CONSTRUCTION DOCUMENTS SET

PLUMBING FIXTURE SCHEDULE												
TAG	FIXTURE	MANUFACTURER	MODEL NUMBER	ADA (Y/N)	FLOW RATE (GPF/GPM)	CONNECTION SIZE				ELECTRICAL V/PH	AMPS	REMARKS
						W (IN)	V (IN)	HW (IN)	CW (IN)			
WC-1	WATER CLOSET	KOHLER	K-3999	YES	1.28	3	2	-	3/4	-	-	VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, 16-1/2" HIGH RIM, FLUSH TANK, 1.28 GPF, PROVIDE OLSONITE #9555 OPEN FRONT SEAT, PROVIDE TRIP HANDLE ON ACCESSIBLE SIDE OF FIXTURE.
L-1	LAVATORY	KOHLER	K-2005	YES	0.35	2	1-1/2	1/2	1/2	-	-	VITREOUS CHINA, WALL MOUNTED, 20"x18". PROVIDE KOHLER #K-15199 SINGLE HANDLE FAUCET WITH OPTIONAL 1180594 0.35 GPM LARGE AERATOR, PROVIDE K-7131-A OFFSET DRAIN WITH FIXED GRID STRAINER, PROVIDE PLUMBBEREX "PRO-EXTREME" P-TRAP AND SUPPLY PROTECTION.
DF-1	DRINKING FOUNTAIN	HAWS	1119	YES	0.1	2	1-1/2	-	1/2	-	-	HI-LO, DUAL HEIGHT, WALL MOUNTED, 1/8 GAUGE, TYPE 304, NO.4 SATIN FINISH, STAINLESS STEEL DRINKING FOUNTAIN, PROVIDE HAWS #6800 & 6700.4 SUPPORT CARRIER AND MOUNTING PLATE.
MS-1	MOP SINK	FLORESTONE	#95	NO	2	3	2	1/2	1/2	-	-	24"x24"x12" DEEP, TERRAZZO MOP SINK, PROVIDE GRID DRAIN, PROVIDE STAINLESS STEEL EDGE PROTECTORS, PROVIDE CHICAGO #540-LDB975WXT WALL MOUNTED UTILITY FAUCET WITH VACUUM-BREAKER MOUNTED AT +36" AFF.
LT-1	LAUNDRY TUB	FLORESTONE	FM-1	NO	2	2	1-1/2	1/2	1/2	-	-	20"x24"x13-1/2" DEEP, COMPOSITE SINK WITH FOUR STEEL LEGS, PROVIDE GRID DRAIN, PROVIDE CHICAGO #891 FAUCET.
FD-1	FLOOR DRAIN	J.R.SMITH	2005-A	NO	NA	2	1-1/2	-	1/2	-	-	9" DIAMETER CAST IRON BODY, 5" DIAMETER NICKEL BRONZE STRAINER HEAD, TRAP PRIMER CONNECTION, PROVIDE PPP #P901-LP600 TRAP PRIMER WITH INTEGRAL BACKFLOW PREVENTER AND REQUIRED PIPING.
FS-1	FLOOR SINK	J.R.SMITH	3160Y	NO	NA	2	1-1/2	-	-	-	-	12-1/2" SQUARE, 10" DEEP, ACID RESISTANT COATED, CAST IRON BODY, DOME BOTTOM STRAINER, 1/2-NICKEL BRONZE GRATE.
FS-2	FLOOR SINK	J.R.SMITH	3160Y	NO	NA	3	1-1/2	-	-	-	-	12-1/2" SQUARE, 10" DEEP, ACID RESISTANT COATED, CAST IRON BODY, DOME BOTTOM STRAINER, 1/2-NICKEL BRONZE GRATE.
TPV-1	TRAP PRIMER VALVE	PPP	PT-4	NO	NA	-	-	-	1/2	120/1	33	RECESSED WALL MOUNTED, ELECTRONIC, COMPLETE WITH 16 GA CABINET AND STAINLESS STEEL ACCESS DOOR
T-1	LINT TRAP	J.R.SMITH	8760	NO	NA	1-1/2	-	-	-	-	-	CAST IRON BODY HAIR AND LINT INTERCEPTOR WITH PERFORATED STAINLESS STEEL BASKET
HB-1	HOSE BIBB	ACORN	8121-CR	NO	5	-	-	-	3/4	-	-	INTERIOR WALL FAUCET WITH VACUUM BREAKER, WHEEL HANDLE, CHROME PLATED, MOUNT AT 24" AFG.
HB-2	WALL HYDRANT	ACORN	8156	NO	5	-	-	3/4	3/4	-	-	INTERIOR HOSE BOX WITH VACUUM BREAKER, REMOVEABLE HINGED DOOR, CHROME FINISH, WHEEL HANDLE, MOUNT AT 24" AFG.
HB-3	WALL HYDRANT	WOODFORD	B22	NO	5	-	-	3/4	3/4	-	-	EXTERIOR FREEZE-PROOF, SELF DRAINING HOSE BOX WITH VACUUM BREAKER, REMOVEABLE HINGED DOOR, CHROME FINISH, WHEEL HANDLE, MOUNT AT 24" AFG.
HB-4	WALL HYDRANT	ACORN	8160	NO	5	-	-	3/4	-	-	-	EXTERIOR FREEZE-PROOF, SELF DRAINING HOSE BOX WITH VACUUM BREAKER, REMOVEABLE HINGED DOOR, CHROME FINISH, WHEEL HANDLE, MOUNT AT 24" AFG.
S-1	SINK	ELKAY	DLR151710	NO	1.5	2	1-1/2	1/2	1/2	-	-	15"x17"x10" DEEP, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING SINK, PROVIDE OFFSET GRID STRAINER, PROVIDE CHICAGO #1100-GN2AE35-317AB GOOSENECK WITH WRIST BLADE FAUCET WITH 1.5 GPM AERATOR.
S-2	SINK	ELKAY	DLR191910	NO	1.5	2	1-1/2	1/2	1/2	-	-	19"x19"x10" DEEP, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING SINK, PROVIDE OFFSET GRID STRAINER, PROVIDE CHICAGO #1100-GN2AE35-317AB GOOSENECK WITH WRIST BLADE FAUCET
S-3	SINK	ELKAY	DLR221911	NO	1.5	2	1-1/2	1/2	1/2	-	-	22"x19"x10" DEEP, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING SINK, PROVIDE OFFSET GRID STRAINER, PROVIDE CHICAGO #1100-GN2AE35-317AB GOOSENECK WITH WRIST BLADE FAUCET
S-4	SINK	ELKAY	LRAD2922	YES	1.5	2	1-1/2	1/2	1/2	-	-	29"x22"x6" DEEP, DOUBLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING SINK WITH OFF-SET DRAIN, PROVIDE BASKET STRAINER, PROVIDE CHICAGO #2300-E35ABCP SINGLE LEVER FAUCET WITH 1.5 GPM AERATOR.
S-5	SINK	ELKAY	DLR332210	NO	1.5	2	1-1/2	1/2	1/2	-	-	33"x22"x10" DEEP, DOUBLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING SINK WITH OFF-SET DRAIN, PROVIDE BASKET STRAINER, PROVIDE CHICAGO #1100-GN2AE35-317AB GOOSENECK WITH WRIST BLADE FAUCET
S-6	SINK	ELKAY	WNSF230LR2	NO	1.5	2	1-1/2	1/2	1/2	-	-	78"x27"x14" DEEP, DOUBLE COMPARTMENT, 14 GAUGE TYPE 304 STAINLESS STEEL, NSF SINK WITH TWO 24" DRAIN BOARDS AND OFF-SET DRAIN, PROVIDE BASKET STRAINER, PROVIDE ELKAY #KXSHAG8T4T GOOSENECK FAUCET WITH 4" WRIST BLADE HANDLES, PROVIDE WITH 1.5 GPM AERATOR.
TD-1	TRENCH DRAIN	MEA / JOSAM	PRO-PLUS 200 SLOPED CHANNEL	NA	NA	6	3	-	-	-	-	8" INTERIOR WIDTH X 39.4" LONG GLASS FIBER REINFORCED HIGH DENSITY POLYESTER MODULAR CHANNEL WITH 4" NO-HUB END OUTLET ON SHALLOW END OF CHANNEL AND 6" NO-HUB BOTTOM OUTLET AT DEEPEST END, GALVANIZED HEEL-PROOF DUCTILE IRON SLOTTED GRATE (REMOVABLE), PROVIDE TRENCH DRAIN SHALLOW END TO BE NO LESS THAN 9.5" DEEP, REFER TO ARCHITECTURAL DETAILS AND TO DETAIL 1 / P9.3, PROVIDE 330" OVERALL CHANNEL LENGTH, PROVIDE SOLID END PLATES (EACH END), IN-LINE SILT BOX WITH SEDIMENT BUCKET
TD-2	TRENCH DRAIN	MEA / JOSAM	PRO-PLUS 200 SLOPED CHANNEL	NA	NA	6	3	-	-	-	-	8" INTERIOR WIDTH X 39.4" LONG GLASS FIBER REINFORCED HIGH DENSITY POLYESTER MODULAR CHANNEL WITH 4" NO-HUB END OUTLET ON SHALLOW END OF CHANNEL AND 6" NO-HUB BOTTOM OUTLET AT DEEPEST END, GALVANIZED HEEL-PROOF DUCTILE IRON SLOTTED GRATE (REMOVABLE), PROVIDE TRENCH DRAIN SHALLOW END TO BE NO LESS THAN 9.5" DEEP, REFER TO ARCHITECTURAL DETAILS AND TO DETAIL 2 / P9.3, PROVIDE 186" OVERALL CHANNEL LENGTH, PROVIDE SOLID END PLATES (EACH END), IN-LINE SILT BOX WITH SEDIMENT BUCKET
TD-3	TRENCH DRAIN	MEA / JOSAM	PRO-PLUS 200 NEUTRAL CHANNEL	NA	NA	3	3	-	-	-	-	8" INTERIOR WIDTH X 39.4" LONG GLASS FIBER REINFORCED HIGH DENSITY POLYESTER MODULAR CHANNEL WITH GALVANIZED HEEL-PROOF DUCTILE IRON SLOTTED GRATE (REMOVABLE), PROVIDE TRENCH DRAIN TO BE NO LESS THAN 11.8" DEEP, REFER TO ARCHITECTURAL DETAILS AND TO DETAIL 3 / P9.3, PROVIDE 39.4" OVERALL CHANNEL LENGTH, PROVIDE SOLID END PLATES (EACH END), NO-HUB BOTTOM OUTLET.
SH-1	SHOWER	SYMMONS	S-96-300-B30-L-V-1.5	YES	1.5	2	1-1/2	1/2	1/2	-	-	PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL HANDLE, VOLUME CONTROL, INTEGRAL STOPS, 1.5 GPM FLOW RATE RESTRICTOR, OPTIONAL EF-100 WAND, HAND-HELD SHOWER WITH IN-LINE VACUUM BREAKER, 60" METAL BRAIDED HOSE, WALL CONNECTION AND 30" SLIDE BAR, PROVIDE CHROME DRAIN, SHOWER ENCLOSURE: LASCO ROLL-IN ACCESSIBLE FIBERGLASS SHOWER MODEL #1623BFSTD, 60" X 30" INSIDE, COMPLETE WITH PRE-LEVELED BASE, BARRIER FREE THRESHOLD, GRAB BARS, FOLD-UP SEAT, SOAP DISH AND CURTAIN ROD AND SHOWER CURTAIN.
GD-1	GARBAGE DISPOSAL	WASTE KING	SS3300	NA	NA	-	-	-	-	115/1	15	3/4-HP, 115 VOLTS, 1-PHASE, 15 AMPS.
IMB-1	ICE MAKER BOX	GUY GRAY	BIM875	NA	NA	-	-	-	1/2	-	-	18 GA. STEEL SUPPLY BOX WITH 1/2" BALL VALVE CONNECTION
DWCB-1	DISHWASHER CONNECTION BOX			NA	NA	-	-	3/4	3/4	-	-	18 GA. STEEL SUPPLY BOX WITH 3/4" WHEEL HANDLE HOSE BIB CONNECTIONS LESS DRAIN CONNECTION, SHOP FABRICATE 10" X 10" X 3-1/2" GALVANIZED STEEL SUPPLY BOX
LCB-1	LAUNDRY CONNECTION BOX			NA	NA	-	-	3/4	3/4	-	-	18 GA. STEEL SUPPLY BOX WITH 3/4" WHEEL HANDLE HOSE BIB CONNECTIONS LESS DRAIN CONNECTION, SHOP FABRICATE 10" X 10" X 3-1/2" GALVANIZED STEEL SUPPLY BOX

DOMESTIC RECIRCULATION PUMP SCHEDULE															
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	FLOW (GPM)	HEAD (FT.WG.)	RPM	CONNECTION SIZE (IN.)	ON/OFF SETPOINT (°F)	HP	ELECTRICAL WATTS	V/PH	EMERG POWER (Y/N)	OPER. WT. (LBS)	NOTES
RP-1	BELL AND GOSSETT	PL-55	MECHANICAL ROOM	INLINE	1	60	3250	3/4	120	2/5	-	115/1	N	15	1,2,3,4,5
RP-2	BELL AND GOSSETT	PL-55	MECHANICAL ROOM	INLINE	4	60	3250	3/4	95	2/5	-	115/1	N	15	1,2,3,4,5

NOTES

- PUMP TO CONTAIN LESS THAN 0.25% LEAD CONTENT ON WETTED SURFACE FOR DOMESTIC DISTRIBUTION.
- MAXIMUM WORKING PRESSURE 150 PSIG AND MAXIMUM OPERATING TEMPERATURE OF 225° F.
- STARTER, IF REQUIRED, AND FUSED DISCONNECT PROVIDED BY ELECTRICAL.
- PROVIDE AUTOMATIC TIMECLOCK TO ALLOW OPERATION ONLY DURING OCCUPIED HOURS.
- PROVIDE AQUASTAT TO OPERATE PUMP WHEN HOT WATER RETURN TEMPERATURE DROPS BELOW SETPOINT.

DOMESTIC WATER HEATER SCHEDULE																			
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	VOL (GAL)	RECOV (GPH)	EWT (°F)	LWT (°F)	CW (IN)	HW (IN)	NG (IN)	FLUE (IN)	NATURAL GAS INPUT (MBH)	EFF (AFUE%)	KW	V/PH	MCA	UNIT SIZE (W"xH" DIA.)	OPER. WT. (LBS)	NOTES
DWH-1	A. O. SMITH	BTH-300	MECH. ROOM	130	291	40	160	1-1/2	1-1/2	1-1/4	4	300	96	-	120/1	15	76X33	1000	1
DWH-2	A. O. SMITH	BTH-300	MECH. ROOM	130	291	40	160	1-1/2	1-1/2	1-1/4	4	300	96	-	120/1	15	76X33	1000	1

NOTES

- CONDENSING TANK TYPE WATER HEATER, NATURAL GAS INPUT. PROVIDE CONCENTRIC AIR INTAKE AND EXHAUST FITTING, PROVIDE CPVC VENT PIPING.

EXPANSION TANK SCHEDULE																	
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	TANK VOL. (GAL)	ACCEPT. VOL. (GAL)	SYSTEM VOL. (GAL)	FILL PRESS. (PSIG)	OPER. PRESS. (PSIG)	RELIEF PRESS. (PSIG)	MIN. TEMP. (°F)	MAX. TEMP. (°F)	SYSTEM CONN. (IN.)	SIZE DIA. x H (IN)	OPER. WT. (LBS)	NOTES	
ET-1	AMTROL	ST-30V-C	MECH ROOM	IN-LINE	53	8.96	-	50	70	150	100	160	3/4	16.25X20	100	1 & 2	

NOTES

- PROVIDE TANK RATED FOR ASME WORKING PRESSURE OF 125 PSIG.
- PROVIDE TANK WITH VERTICAL CONFIGURATION.

MIXING VALVE SCHEDULE																	
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	INLET CONNS. (IN)	OUTLET CONN. (IN)	MINIMUM SYSTEM (GPM)	MAXIMUM SYSTEM (GPM)	OPER. PRESS. (PSIG)	MAXIMUM SYSTEM PD (PSI)	CW INLET TEMP. (°F)	HW INLET TEMP. (°F)	OUTLET TEMP. (°F)	OPER. WT. (LBS)	NOTES		
MV-1	LEONARD	TM-820	MECH. RM	FIXED TEMPERATURE	1"	1-1/4"	1	60	70	10	40	160	120	25	1		

NOTES

- REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER MIXING VALVE PIPING HOOK-UP CONFIGURATION WITHIN THE HOT WATER PIPING SYSTEM.



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SHEET CONTENTS:
PLUMBING SCHEDULES



1 PLUMBING SITE PLAN
SCALE: 1"=40'-0"



SHEET NOTES

A. FOR PROPANE PIPING REFER TO PIPING DIAGRAM ON SHEET P4.1.

KEYED NOTES

1. NEW 6" SANITARY SEWER FOR CONTINUATION SEE CIVIL PLANS.
2. NEW 2-1/2" COLD WATER SUPPLY, FOR CONTINUATION SEE CIVIL PLANS.
3. EXISTING 1-1/4" COLD WATER BUILDING SUPPLY.
4. EXISTING 4" SANITARY SEWER.
5. NEW PROPANE TANK FURNISHED AND INSTALLED BY OWNER. COORDINATE PIPE ROUTING WITH FINAL TANK LOCATION DETERMINED BY OWNER.
6. NEW 3" LPG PIPING BELOW GRADE.



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SHEET CONTENTS:
**PLUMBING
SITE PLAN**

P1.1



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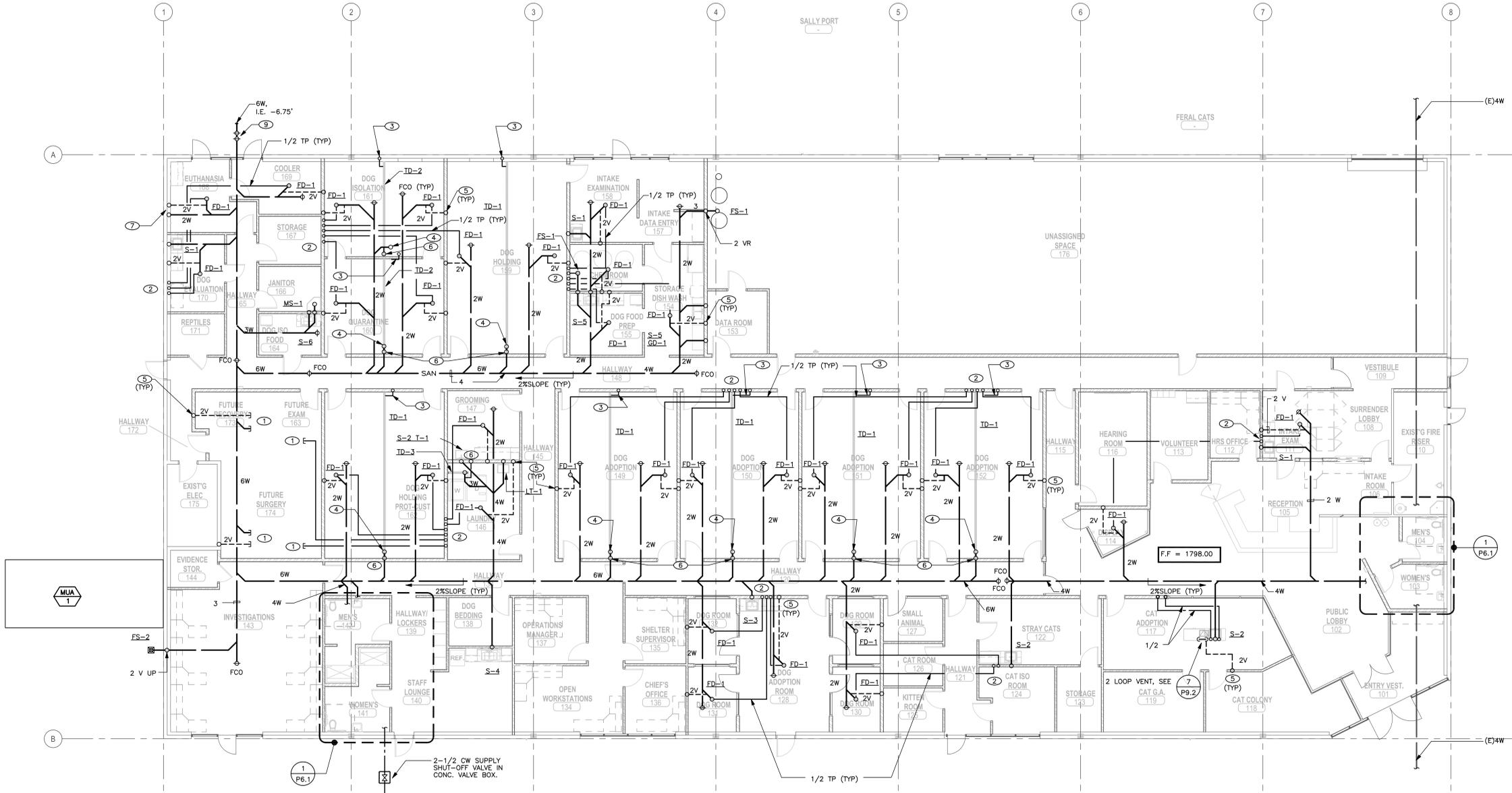
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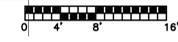
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1 PLUMBING UNDERSLAB FLOOR PLAN- WASTE AND VENT

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



SHEET NOTES

- A. CLEANOUTS AND FLOOR DRAIN WASTE PIPING SHALL BE SET AT A MINIMUM OF 18 BELOW FINISHED FLOOR.
- B. SLOPE ALL WASTE PIPING AT 2%.

KEYED NOTES

- 1. PLUG 2 WASTE, CAP 1/2 TP AND CAP 2 VENT UNDER THE SLAB, TERMINATE INSIDE THE SPACE FOR FUTURE CONNECTION.
- 2. 1/2 TP PIPING FROM TRAP PRIMER VALVE. FOR CONTINUATION REFER TO SHEET P2.2.
- 3. 1 CW SUPPLY FOR TRENCH DRAIN (TD) WASH DOWN, SEE DETAILS 1&2/P9.3.
- 4. 6 TRAPPED AND VENTED TRENCH DRAIN (TD) WASTE CONNECTION, SEE DETAIL 1&2/9.3.
- 5. 2 VR, DN.
- 6. 3 VR, DN.
- 7. PROVIDE 2 WASTE AND 2 VENT ROUGH-IN FOR OWNER FURNISHED WET TABLE.
- 8. 2-WAY CLEANOUT TO GRADE, X/P9.1.

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SHEET CONTENTS:

PLUMBING UNDER SLAB WASTE AND VENT

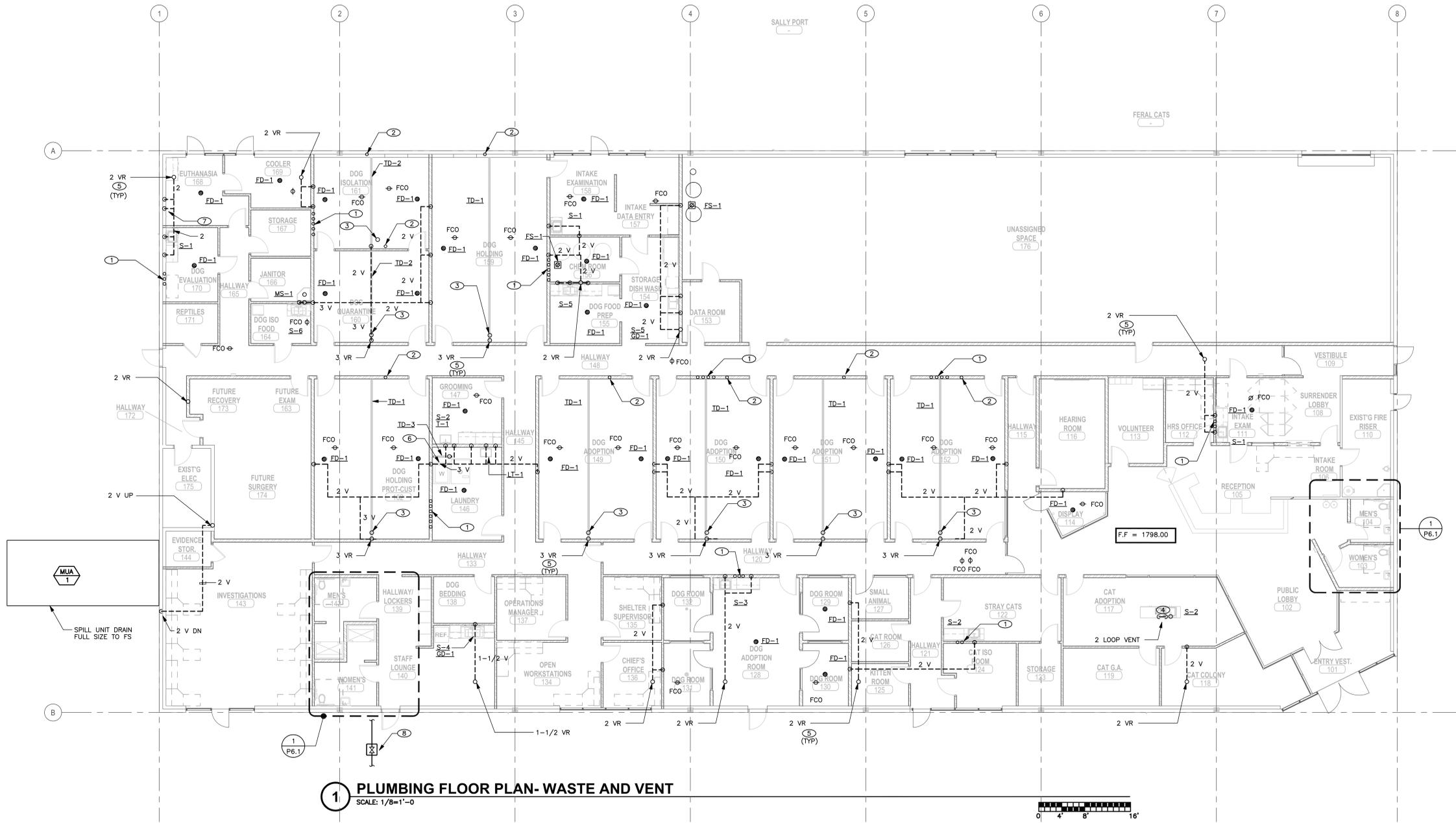


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1 PLUMBING FLOOR PLAN- WASTE AND VENT
 SCALE: 1/8"=1'-0"

KEYED NOTES

- 1/2 TRAP PRIMER, DN FROM TRAP PRIMER VALVE IN WALL. SEE DETAIL 7/P9.1 AND PLUMBING PLAN P2.2
- 1 COLD WATER, DN FROM VALVE ABOVE. SEE DETAIL S1&2/P9.3 AND PLUMBING PLAN P2.2
- 6 SANITARY SEWER DROP FROM TRENCH DRAIN (TD) SEE DETAILS 1&2/P9.3
- 2 LOOP VENT. SEE DETAIL 7/P9.2.
- COORDINATE VENT RISERS THROUGH ROOF WITH MECHANICAL UNITS ON ROOF. MAINTAIN MINIMUM 10'-0" FROM UNIT FRESH AIR INTAKES.
- SPILL WASHER DRAIN TO TD-3 PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- PROVIDE ROUGH-IN FOR OWNER FURNISHED WET TABLE.
- 2-1/2 CW SUPPLY SHUT-OFF VALVE IN CONC. VALVE BOX.



REVISIONS

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PLUMBING FLOOR PLAN WASTE AND VENT

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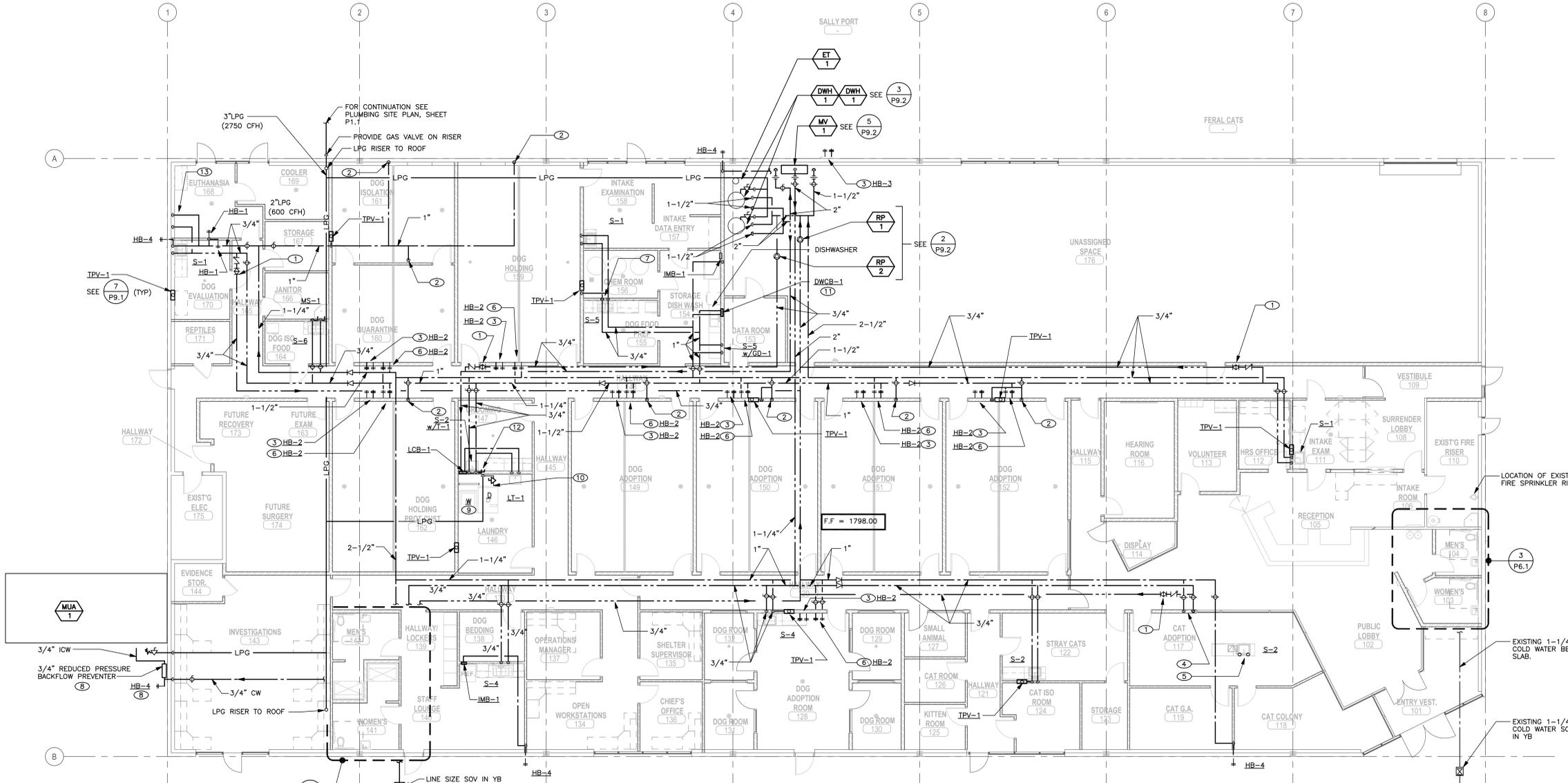


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1 PLUMBING FLOOR PLAN
 SCALE: 1/8"=1'-0"

SHEET NOTES

A. FOR PROPANE PIPING REFER TO PIPING DIAGRAM ON SHEET P4.1.

KEYED NOTES

1. SET HOT WATER RETURN BALANCING VALVE AT 1 GPM.
2. 1" COLD WATER SUPPLY DROP TO WALL MOUNTED COLD WATER BALL VALVE FOR TRENCH FLUSHING. SEE DETAIL 1&2/P9.3.
3. PROVIDE 3/4" WALL MOUNTED HOSE BIB FOR KENNEL SPACE CHEMICAL CLEANING SYSTEM. SYSTEM AND PIPING BY OTHERS. MOUNT HOSE BIBS AT 42" ABOVE FIN. FLOOR.
4. 3/4" HOT AND COLD WATER DROPS TO BELOW SLAB FOR SINK S-2.
5. 3/4" HOT AND COLD WATER RISERS FROM BELOW SLAB FOR SINK S-2.
6. PROVIDE 3/4" WALL MOUNTED HOSE BIB FOR KENNEL NON-CHEMICAL CLEANING. CONNECT HOSE BIBS TO DOMESTIC HOT AND COLD WATER ABOVE CEILING. MOUNT HOSE BIBS AT 42" ABOVE FIN. FLOOR. PROVIDE BALL VALVE ABOVE CORRIDOR CEILING.
7. EXTEND 1" HOT AND COLD WATER FROM SINK S-5 ROUGH-IN PIPING FOR CONNECTION TO CHEMICAL CLEANING SYSTEM. TERMINATE 1" HOT AND COLD WATER INSIDE CHEM. ROOM 156 WITH BALL VALVE AND CAP. MOUNT VALVES INSIDE SHEET METAL VALVE BOX AND MOUNT VALVE BOX AT 54" ABOVE FINISHED FLOOR.
8. PROVIDE CAPPED DRAIN LINE ON BACKFLOW PREVENTOR AND HOSE BIB PIPING. HEAT-TRACE ALL EXPOSED EXTERIOR COLD WATER PIPING.
9. CONNECT HOT AND COLD WATER TO OWNER FURNISHED CLOTHES WASHER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
10. CONNECT PROPANE SERVICE TO OWNER FURNISHED CLOTHES DRYER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. CONNECT HOT AND COLD WATER TO OWNER FURNISHED CLOTHES DRYER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
12. PROVIDE 1/2" HOT AND COLD WATER ROUGH-IN FOR OWNER FURNISHED GROOMING TUB.
13. PROVIDE 1/2" HOT AND COLD WATER ROUGH-IN FOR OWNER FURNISHED WET TABLE.

#	REVISIONS

SHEET CONTENTS	
GLUMAC PROJECT #:	03.13.00602
CHECKED BY:	RM
DRAWN BY:	DV
DATE:	12/3/13

**PLUMBING FLOOR PLAN
 HOT WATER, COLD WATER
 AND GAS**

CONSTRUCTION DOCUMENTS SET

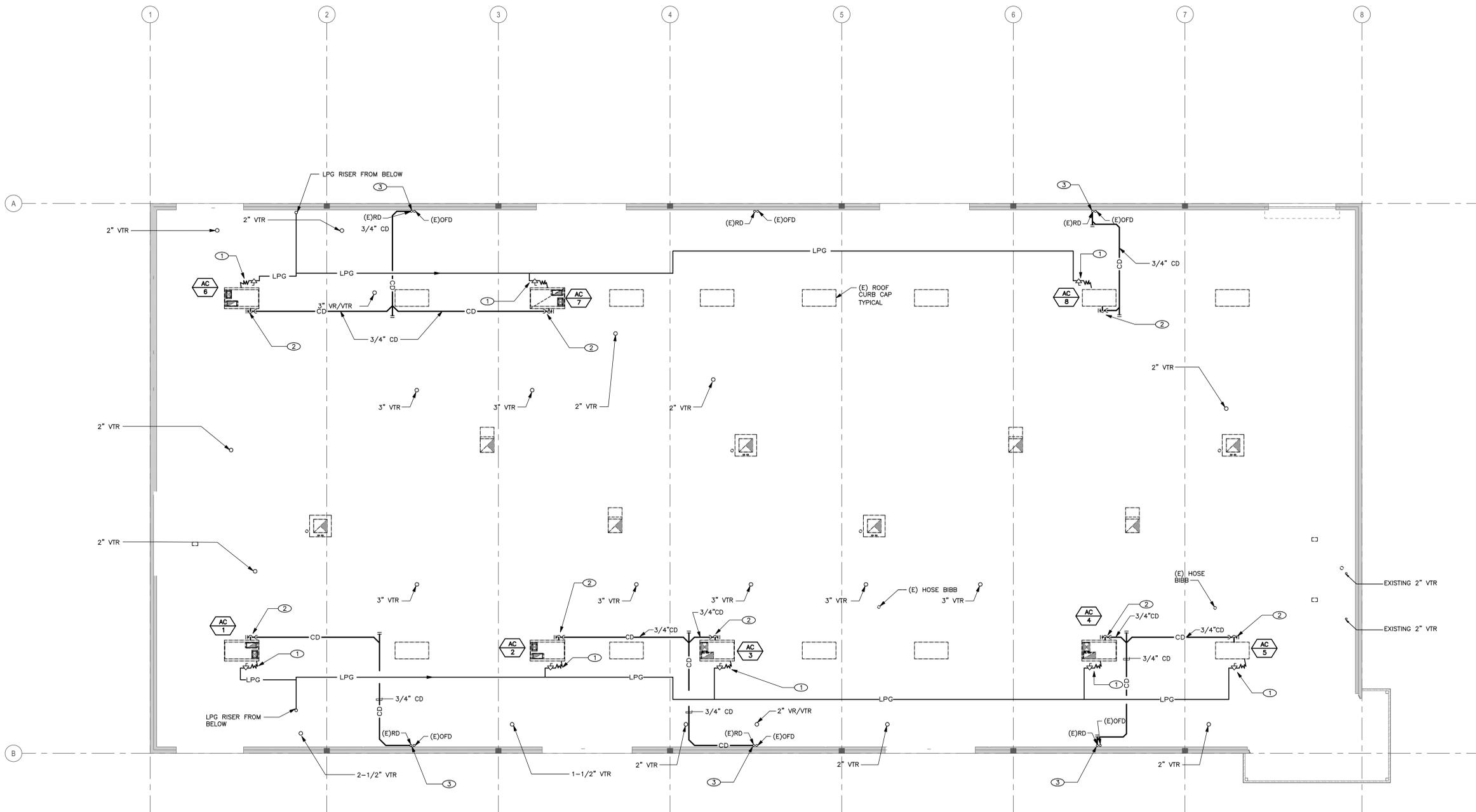


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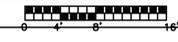
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**EL DORADO COUNTY
 ANIMAL SHELTER FACILITY**
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA



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



SHEET NOTES

A. FOR PROPANE PIPING REFER TO PIPING DIAGRAM ON SHEET P4.1.

SHEET NOTES

- FOR LPG PIPING CONNECTION TO MECHANICAL UNIT, SEE 1 PG.2
- FOR CONDENSATE PIPING CONNECTION TO MECHANICAL UNIT, SEE 8 PG.1
- SPILL CONDENSATE TO ROOF DRAIN.
- COORDINATE VENT RISERS THRU ROOF WITH MECHANICAL UNITS ON ROOF. MAINTAIN MINIMUM 10'-0" FROM MECHANICAL UNIT FRESH AIR INTAKES.

REVISIONS

GLUMAC PROJECT #: 03.13.00602
 CHECKED BY: RM
 DRAWN BY: DV
 DATE: 12/3/13

SHEET CONTENTS:
**PLUMBING
 ROOF PLAN**

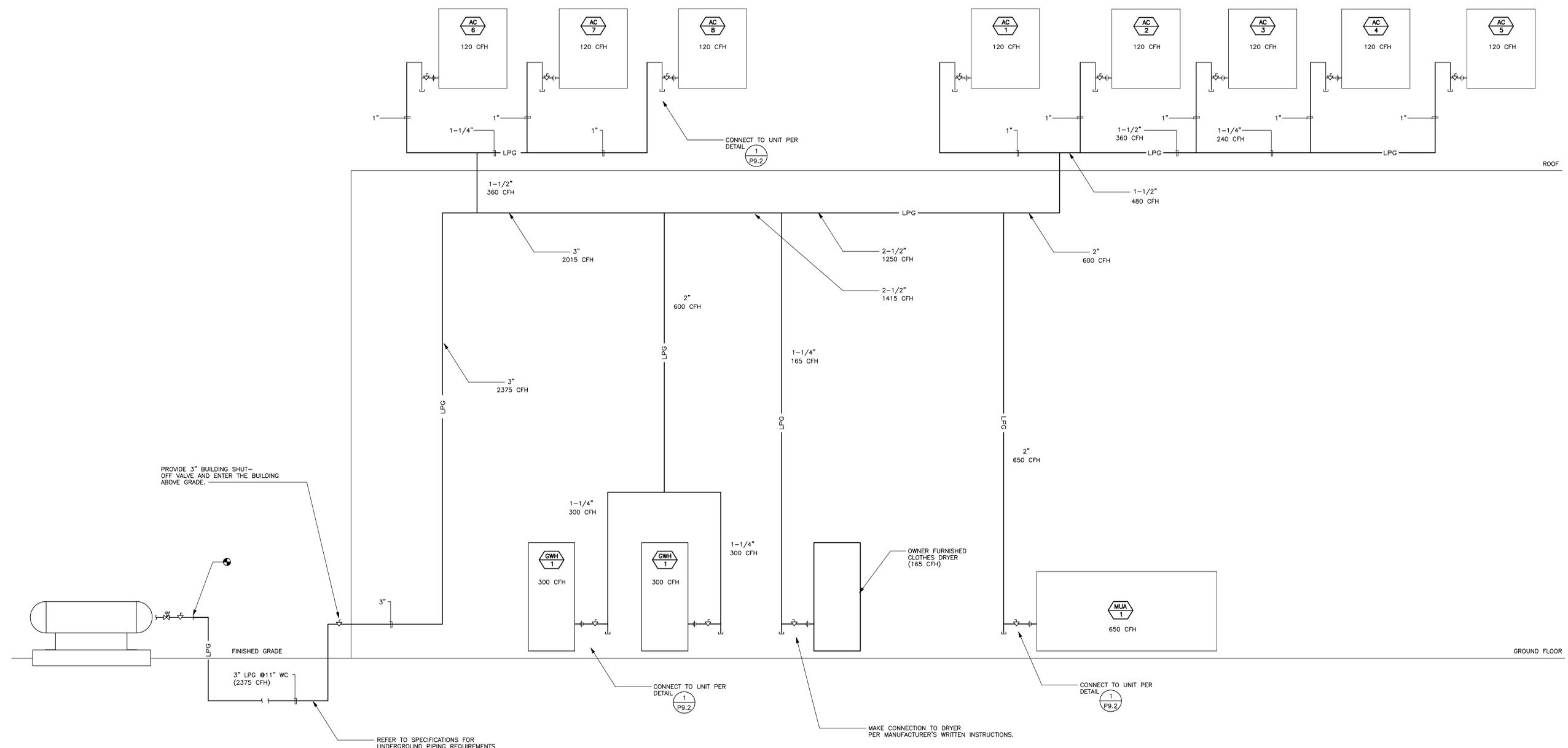
CONSTRUCTION DOCUMENTS SET



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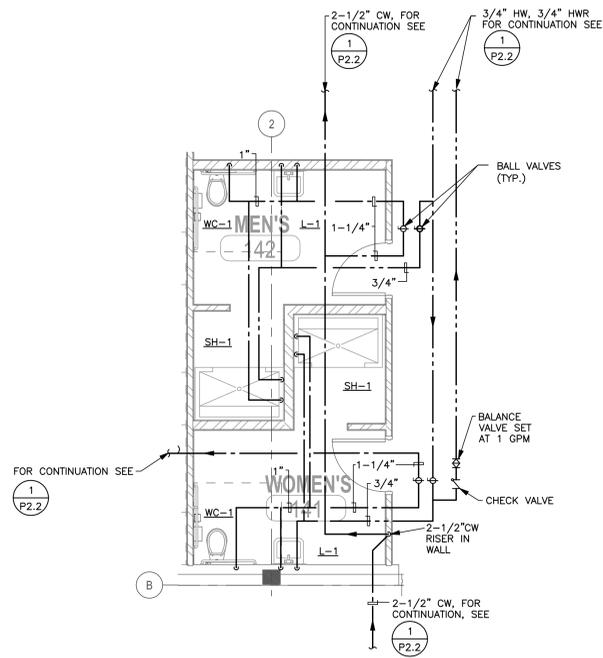
1 PROPANE PIPING DIAGRAM
 SCALE: NONE

NOTE:
 TOTAL DEVELOPED LENGTH = 450'

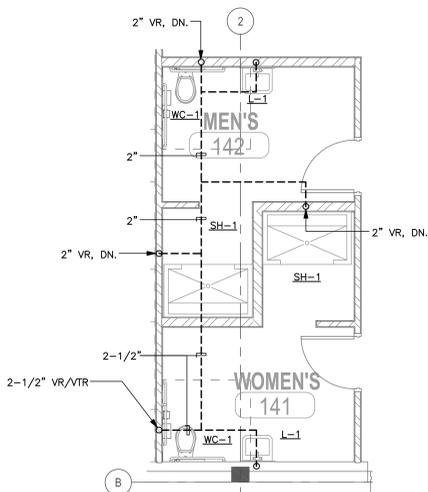
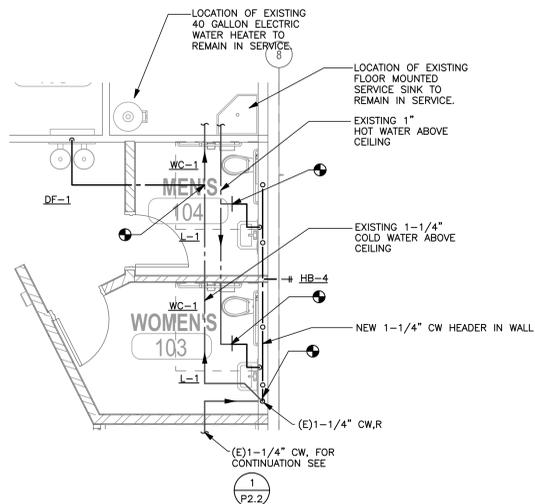
#	REVISIONS

SHEET CONTENTS:
PLUMBING GAS PIPING DIAGRAM

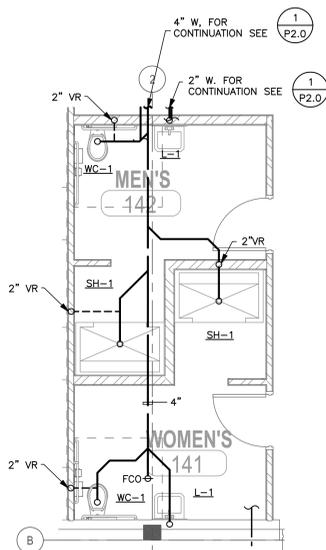
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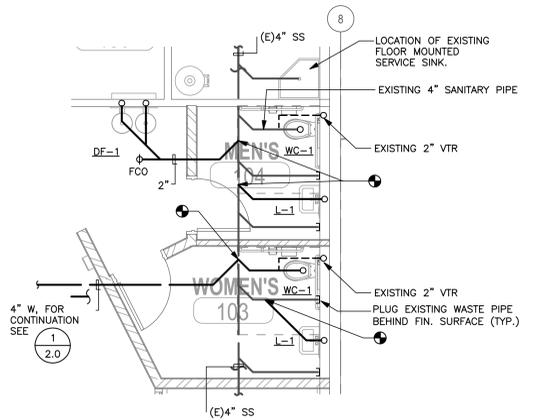
3 PLUMBING ENLARGED FLOOR PLAN
SCALE: 1/4"=1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - WASTE AND VENT
SCALE: 1/4"=1'-0"



1 PLUMBING ENLARGED UNDERSLAB FLOOR PLAN - WASTE AND VENT
SCALE: 1/4"=1'-0"



NOTE: REUSE EXISTING UNDERSLAB WASTE PIPING WHERE PRACTICAL.



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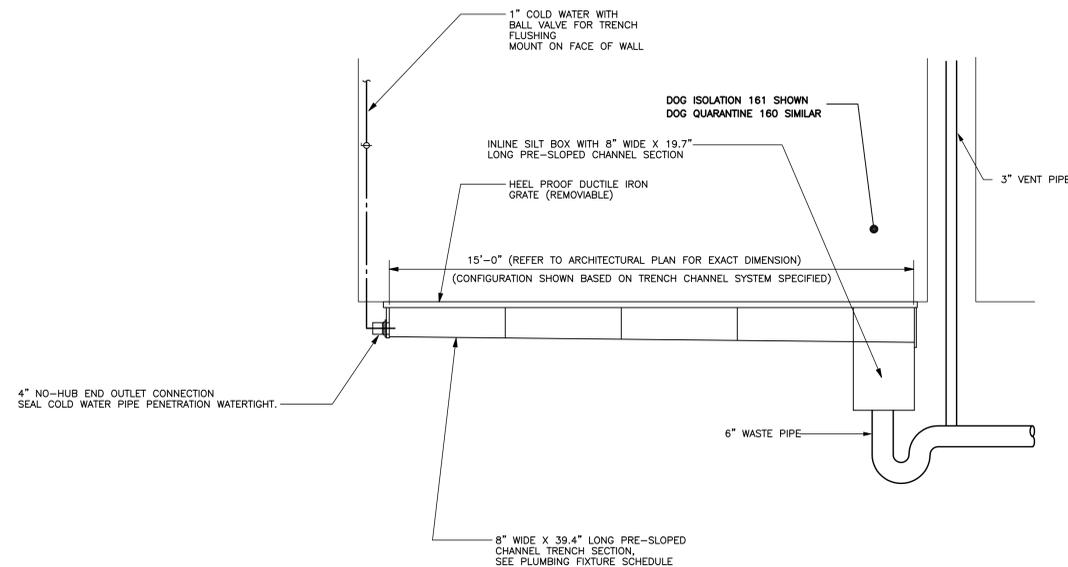
GLUMAC PROJECT #: 03.13.00602
CHECKED BY: RM
DRAWN BY: DV
DATE: 12/3/13

SHEET CONTENTS:
ENLARGED PLUMBING FLOOR PLANS

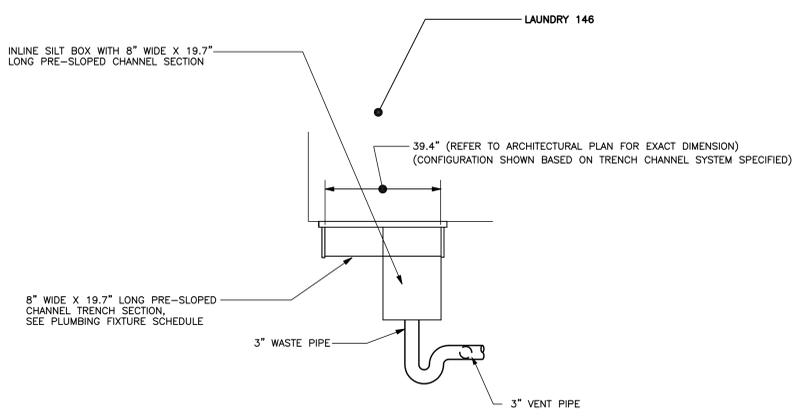
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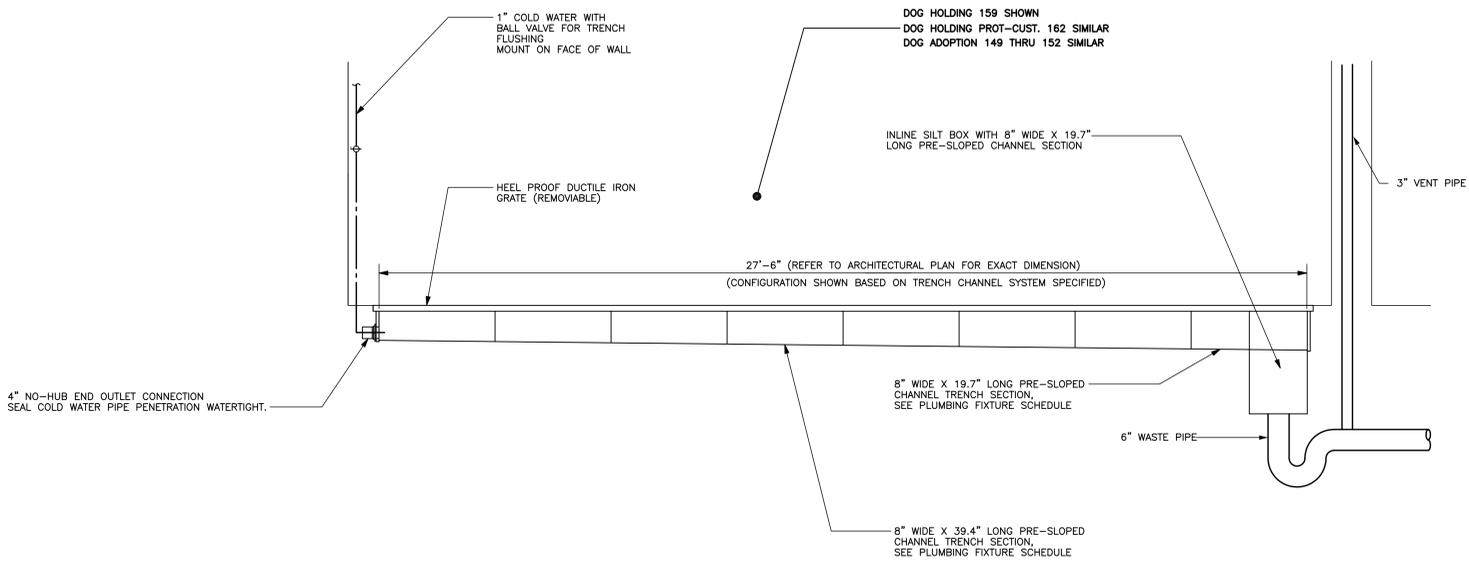
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2 TRENCH DRAIN TD-2 DETAIL
 SCALE: NONE



3 TRENCH DRAIN TD-3 DETAIL
 SCALE: NONE



1 TRENCH DRAIN TD-1 DETAIL
 SCALE: NONE

**EL DORADO COUNTY
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#	REVISIONS

SHEET CONTENTS:
PLUMBING ENLARGED TRENCH DETAIL

CONSTRUCTION DOCUMENTS SET

HVAC DRAWING LIST

SHEET NO.	DESCRIPTION
M0.0	MECHANICAL LEGENDS, ABBREVIATIONS AND SHEET INDEX
M0.1	MECHANICAL BASIS OF DESIGN
M0.2	MECHANICAL SCHEDULES
M0.3	MECHANICAL TITLE-24
M0.4	MECHANICAL TITLE-24
M2.0	MECHANICAL ROOF DEMOLITION PLAN
M2.1	MECHANICAL FLOOR PLAN
M2.2	MECHANICAL ROOF PLAN
M3.1	MECHANICAL ZONING PLAN
M5.1	MECHANICAL ELEVATIONS
M9.1	MECHANICAL DETAILS

HVAC LEGEND

GENERAL		VALVES & GAUGES		DUCTWORK	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL (DOUBLE LINE)	DESCRIPTION
(N)	NEW WORK		BALL VALVE		ACCESS DOOR / ACCESS PANEL
(E)	EXISTING WORK TO REMAIN		SOLENOID CONTROL VALVE		FLEXIBLE CONNECTION
	EXISTING WORK TO BE REMOVED		PRESSURE AND TEMP. RELIEF VALVE		FLEXIBLE DUCT RUNOUT TO DIFFUSER
	CENTER LINE		BUTTERFLY VALVE		RECTANGULAR DUCT SIZE (WIDTH x DEPTH IN INCHES)
	POINT OF CONNECTION OR POINT OF DISCONNECTION		MOTORIZED BUTTERFLY VALVE		ROUND DUCT SIZE (DIAMETER IN INCHES)
	DETAIL 1, DRAWING M-1		GATE VALVE		OVAL DUCT SIZE (WIDTH x DEPTH IN INCHES)
	SECTION A, DRAWING M-1		BALANCING VALVE		DUCT THROUGH BEAM PENETRATION
	ELEVATION 1, DRAWING M-1		ANGLE GATE VALVE		DUCT OFFSET (RISE OR DROP)
	RISER IDENTIFICATION EXHAUST #1		GLOBE VALVE		VOLUME DAMPER OR REMOTE VOLUME DAMPER
	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1		ANGLE GLOBE VALVE		FIRE, SMOKE OR FIRE/SMOKE DAMPER
	KITCHEN EQUIPMENT TAG		CHECK VALVE		SUPPLY DUCT UP
	KEYED NOTE REFERENCE TAG		2-WAY CONTROL VALVE		SUPPLY DUCT DOWN
			3-WAY CONTROL VALVE		EXHAUST DUCT UP
			NON-SLAM WAFER CHECK VALVE		EXHAUST DUCT DOWN
			PRESSURE REDUCING VALVE (PRV)		RETURN DUCT UP
			DIAPHRAM VALVE		RETURN DUCT DOWN
			LOCK SHIELD VALVE		CROSS SECTION OF SUPPLY DUCT
			NEEDLE VALVE		CROSS SECTION OF EXHAUST AIR DUCT
			QUICK OPENING VALVE		CROSS SECTION OF RETURN AIR DUCT
			VENTURI FLOW METER		CROSS SECTION OF ROUND DUCT
			PRESS. GAUGE WITH COCK AND SNUBBER		DUCT ELBOW WITH TURNING VANES
			THERMOMETER		SMOOTH RADIUS DUCT ELBOW WITHOUT TURNING VANES
					CONICAL OR LO-LOSS TEE BRANCH FITTING
					WYE BRANCH FITTING
					ACOUSTICAL LINING DUCT DIMENSION IS INSIDE DIMENSION
					MOTORIZED DAMPER INSIDE DUCT
					TRANSFER DUCT (WITH LINER)
					INDICATES 8" TO 11" TO BOTTOM OF DUCT
					RECTANGULAR OR ROUND SUPPLY DIFFUSER (SEE SCHEDULE). 4-WAY THROW UNLESS INDICATED OTHERWISE.
					RECTANGULAR OR ROUND EXHAUST REGISTER (SEE SCHEDULE)
					RECTANGULAR OR ROUND RETURN REGISTER (SEE SCHEDULE)
					RECTANGULAR OR ROUND RETURN GRILLE (SEE SCHEDULE)
					RECTANGULAR OR ROUND RETURN GRILLE (SEE SCHEDULE)
					RECTANGULAR OR ROUND RETURN GRILLE (SEE SCHEDULE)
					WALL SUPPLY REGISTER (SEE SCHEDULE)
					WALL RETURN REGISTER (SEE SCHEDULE)
					LINEAR SLOT DIFFUSER (SEE SCHEDULE)

PIPING

SYMBOL	DESCRIPTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP
	PIPE DOWN
	PIPE DROP/PIPE RISE
	TOP CONNECTION - BRANCH LINE
	RETURN AIR DAMPER
	BOTTOM CONNECTION - BRANCH LINE
	PIPE ANCHOR
	TEE UP
	TEE DOWN
	STRAINER
	STRAINER WITH BLOW OFF HOSE BIBB
	INLINE PUMP
	BASE MOUNTED PUMP
	TEST TAP (PETE'S PLUG)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	VACUUM BREAKER
	VENT THRU ROOF
	PIPE GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	UNION
	CAPPED OR PLUGGED TEE
	BLIND FLANGE, CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION LOOP
	VALVE ON RISE
	PIPE SIZE (DIAMETER IN INCHES)

CONTROLS

SYMBOL	DESCRIPTION
	TEMPERATURE SENSOR
	THERMOSTAT OR THERMOMETER
	CARBON DIOXIDE SENSOR
	HUMIDITY SENSOR OR HUMIDISTAT
	STATIC PRESSURE SENSOR
	REFRIGERATION SENSOR
	CARBON MONOXIDE SENSOR
	HYDROGEN SENSOR
	DUCT SMOKE DETECTOR
	TEMPERATURE SENSOR
	STATIC PRESSURE SENSOR
	PRESSURE SENSOR OR SWITCH
	DIFFERENTIAL PRESSURE SENSOR
	AIR FLOW MONITORING STATION
	HUMIDITY SENSOR
	FLOW SENSOR OR SWITCH
	FLOW METER
	CURRENT SENSOR
	MOTOR
	ACTUATOR
	HYDROGEN MONITOR
	REFRIGERATION MONITOR
	ANALOG INPUT
	ANALOG OUTPUT
	DIGITAL INPUT
	DIGITAL OUTPUT
	BUILDING AUTOMATION SYSTEM

MISCELLANEOUS

SYMBOL	DESCRIPTION
	REFRIGERANT LIQUID/DISCHARGE
	REFRIGERANT SUCTION
	PNEUMATIC CONTROL VALVE
	AIR LINE
	SOUND TRAP
	COOLING COIL
	HEATING COIL
	RADIANT HEATER
	BASEBOARD HEATER
	CHILLED BEAM
	THRUST BLOCK

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	JB	JUNCTION BOX
ABV	ABOVE	MA	MIXED AIR
AC	AIR CONDITIONING	MA	MIXED AIR DAMPER
ACCEPT	ACCEPTANCE	MAD	MAXIMUM
ACU	AIR CONDITIONING UNIT	MAX	MAXIMUM
ADD	ACCESS DOOR	MBH	THOUSAND BTU PER HOUR
AD	ADDITION	MC	MECHANICAL CONTRACTOR
AF	AFTER FILTER	MCA	MINIMUM CIRCUIT AMPACITY
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFMS	AIR FLOW MEASURING STATION	MD	MECHANICAL
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MECH	MECHANICAL
AG	AIR GAP	MERV	MINIMUM EFFICIENCY RATING VALUE
AHJ	AUTHORITY HAVING JURISDICTION	MFR	MANUFACTURER
AHU	AIR HANDLING UNIT	MFR	MINIMUM
AMB	AMBIENT	MOC	MAXIMUM OVER CURRENT PROTECTION
AMP	AMPERE	MPC	MEDIUM PRESSURE CONDENSATE
AP	ACCESS PANEL	MPS	MEDIUM PRESSURE STEAM
APPROX	APPROXIMATELY	MV	MANUAL AIR VENT
ARCH	ARCHITECT	(N)	NEW
ARI	AMERICAN REFRIGERATION INSTITUTE	N/A	NOT APPLICABLE
AS	AIR SEPARATOR	NC	NORMALLY CLOSED
AUTO	AUTOMATIC	NO	NOT IN CONTRACT
AUX	AUXILIARY	NOM	NOMINAL
B	BOILER	NP	NET POSITIVE SUCTION HEAD
BAS	BUILDING MANAGEMENT SYSTEM	NTS	NOT TO SCALE
BDD	BACKDRAFT DAMPER	OA	OUTSIDE AIR
BEL	BELOW	OAD	OUTSIDE AIR DAMPER
BHP	BRAKE HORSEPOWER	OAT	OUTSIDE AIR TEMPERATURE
BOD	BOTTOM OF DUCT	OBD	OPPOSED BLADE DAMPER
BOP	BOTTOM OF PIPE	OC	ON CENTER
BPP	BACKFLOW PREVENTER	OD	OUTSIDE DIAMETER
BSMT	BASEMENT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BTU	BRITISH THERMAL UNIT	OFOW	OWNER FURNISHED OWNER INSTALLED
BTU/H	BTU PER HOUR	OPER	OPERATING
BV	BALL VALVE OR BALANCING VALVE	OV	OUTLET VELOCITY
BYV	BUTTERFLY VALVE	P	PUMP OR PRESSURE OR POLE
C	COMMON, CONDENSATE OR CONDUIT	PC	PUMPED CONDENSATE
CA	CONTROL AIR	PD	PRESSURE DROP
CAP	CAPACITY	PF	PREFILTER
CAV	CONSTANT AIR VOLUME	PH	PHASE (ELECTRICAL)
CB	CHILLED BEAM	PHC	PREHEAT COIL
CC	COOLING COIL OR CONTROLS CONTRACTOR	PLBG	PLUMBING
CEG	CEILING EXHAUST GRILLE	POC	POINT OF CONNECTION
CER	CEILING EXHAUST REGISTER	POD	POINT OF DISCONNECTION
CF	CAP FOR FUTURE	PPRES	PRESSURE
CEG	CEILING EXHAUST GRILLE	PRV	PRESSURE REDUCING VALVE
CFS	CUBIC FEET PER SECOND	PS	PRESSURE SENSOR
CHWP	CHILLED WATER PUMP	PSI	POUNDS PER SQUARE INCH
CHWS	CHILLED WATER SUPPLY	PSIA	PSI ABSOLUTE
CH	CHILLER	PSIG	PSI GAUGE
CHV	CHECK VALVE	PTH	PACKAGED TERMINAL HEAT PUMP
CL	CENTRALINE	R	RISERS, RELOCATE OR RISE
CLG	CLEANOUT	RA	RETURN AIR
COL	COLUMN	RD	REFRIGERANT DISCHARGE OR ROOF DRAIN
COMP	COMPRESSOR	REF	REFRIGERANT EXHAUST FAN
CONC	CONCRETE	REJ	REJECTION
COND	CONDENSATE	REQ'D	REQUIRED
CONN	CONNECTION	REV	REVISE, REVISION OR REVOLUTIONS
CONT	CONTINUATION	RF	RETURN FAN
CONTR	CONTRACTOR	RH	RELATIVE HUMIDITY
COF	COEFFICIENT OF PERFORMANCE	RHC	REHEAT COIL
CP	CONTROL PANEL OR CONDENSATE PUMP	RHT	RADIANT HEATER
CR	CONDENSATE RETURN	RM	ROOM
CRR	CEILING RETURN REGISTER	RPM	REVOLUTIONS PER MINUTE
CRG	CEILING RETURN GRILLE	RS	REFRIGERANT SUCTION
CSD	CEILING SUPPLY DIFFUSER	RTU	ROOFTOP UNIT
CNT	CONNECT TO EXISTING	S	SUPPLY OR SLOPE
CU FT	CUBIC FEET	SA	STANDARD CONDITIONS
CU IN	CUBIC INCH	SCFM	SCFM, STANDARD CONDITIONS
CW	COLD WATER	SD	SEASONAL ENERGY EFFICIENCY RATING
CWP	CONDENSER WATER PUMP	SEER	SENSIBLE
CWR	CONDENSER WATER RETURN	SF	SUPPLY FAN OR SQUARE FEET
CWS	CONDENSER WATER SUPPLY	SHC	SQUARE HEAD COOK
D	DROP OR DRAIN	SIU	SPLIT INDOOR UNIT
DBT	DRY BULB TEMPERATURE	SOU	SPLIT OUTDOOR UNIT
DDC	DIRECT DIGITAL CONTROL	SP	STATIC PRESSURE
DEFL	DEFLECTION	SPD	SPLITTER DAMPER
DA	DIAMETER	SPEC	SPECIFICATIONS
DIFF	DIFFERENCE	SO IN	STANDARD SQUARE INCH
DN	DOWN	ST	STRAINER OR SOUND TRAP
DP	DIFFERENTIAL PRESSURE	STD	STANDARD
DPT	DEW POINT TEMPERATURE	STRUCT	STRUCTURAL
DSD	DUCT SMOKE DETECTOR	SV	STEAM VENT
DI	DIAPHRAM VALVE	T	THERMOSTAT OR THERMOMETER
DWG(S)	DRAWING(S)	TOP	TEMPERATURE CONTROL PANEL
DX	DIRECT EXPANSION	TDH	TOTAL DYNAMIC HEAD
(E)	EXISTING	TEMP	TEMPERATURE
EA	EXHAUST AIR OR EACH	TF	TRANSFER FAN
EAD	EXHAUST AIR DAMPER	TI	TENANT IMPROVEMENT
EAT	ENTERING AIR TEMPERATURE	TRG	TRANSFER GRILLE
EC	ELECTRICAL CONTRACTOR	TS	TEMPERATURE SENSOR
ECON	ECONOMIZER	TSP	TOTAL STATIC PRESSURE
EDB	ENTERING DRY BULB TEMPERATURE	TI	TEST TAP OR TEST TEE
EER	ENERGY EFFICIENCY RATING	TMAC	THROUGH WALL AIR CONDITIONING
EF	EXHAUST FAN	TXV	THERMAL EXPANSION VALVE
EJ	EFFICIENCY	(TYP)	TYPICAL
EJ	EXPANSION JOINT	U	HEAT TRANSFER COEFFICIENT
EL	ELEVATION	UC	UNDER CUT DOOR
ELEC	ELECTRICAL	UG	UNDERGROUND
EQUIP	EQUIPMENT	UH	UNIT HEATER
ESP	EXTERNAL STATIC PRESSURE	UN	UNLESS OTHERWISE NOTED
ET	EXPANSION TANK	V	VENT OR VOLT OR VELOCITY
EWB	ENTERING WET BULB TEMPERATURE	VAV	VARIABLE AIR VOLUME
EW	ENTERING WATER TEMPERATURE	VB	VACUUM BREAKER
EXH	EXHAUST	VD	VOLUME DAMPER
EXT	EXTERNAL	VEL	VELOCITY
F	FAHRENHEIT OR FILTER	VERT	VERTICAL
FPB	FAN POWERED BOX	VFD	VARIABLE FREQUENCY DRIVE
FC	FLEXIBLE CONNECTION OR FAIL CLOSED	VFM	VENTURI FLOW METER
FCU	FAN COIL UNIT	VOL	VOLUME
FD	FIRE DAMPER	VTR	VENT THROUGH ROOF
FF	FINAL FILTER OR FINISHED FLOOR	W	WASTE OR WIDTH OR WATTS
FLR	FLOOR	W/	WITH
FR	FAIL OPEN	W/O	WITHOUT
FRI	FINS PER INCH	WB	WET BULB TEMPERATURE
FFM	FEET PER MINUTE	WC	WATER COLUMN
FPS	FEET PER SECOND	WEG	WALL EXHAUST GRILLE
FSD	FIRE/SMOKE DAMPER	WG	WATER GAUGE
FT	FOOT OR FEET	WP	WORKING PRESSURE
G	GAS	WPD	WATER PRESSURE DROP
GA	GAUGE, GAGE	WRR	WALL RETURN REGISTER
GAL	GALLONS	WSHP	WATER-SOURCE HEAT PUMP
GALV	GALVANIZED	WSR	WALL SUPPLY REGISTER
GC	GAS COOK OR GENERAL CONTRACTOR	WT	WEIGHT
GLV	GLOBE VALVE	XFMR	TRANSFORMER
GN	GENERAL NOTE	Z	ZONE
GPM	GALLONS PER MINUTE	ZD	ZONE DAMPER
GND	GROUND		
GV			

MECHANICAL BASIS OF DESIGN

- A. THE SUBJECT BUILDING IS AN EXISTING 21,000 SQUARE FOOT SINGLE-STORY CONCRETE TILT-UP STRUCTURE THAT WAS ORIGINALLY CONSTRUCTED IN 2000 AND IS BEING RE-PURPOSED TO SERVE AS A COUNTY ANIMAL SHELTER FACILITY. THE PROJECT INCLUDES 18,000 SQUARE FEET WITH THE REMAINDER UNIMPROVED FOR FUTURE.
- B. CODES AND STANDARDS
1. AMERICANS WITH DISABILITIES ACT (ADA)
 2. ASHRAE 2009 HANDBOOK, FUNDAMENTALS
 3. ASHRAE 2010 HANDBOOK, REFRIGERATION
 4. ASHRAE 2011 HANDBOOK, HVAC APPLICATIONS
 5. ASHRAE 2012 HANDBOOK, HVAC SYSTEMS AND APPLICATIONS
 6. 2010 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (BASED ON THE 2009 INTERNATIONAL BUILDING CODE WITH STATE AMENDMENTS).
 7. 2010 CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 4 (BASED ON 2009 UNIFORM MECHANICAL CODE (UMC) WITH STATE AMENDMENTS).
 8. 2008 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD FOR NONRESIDENTIAL COMPLIANCE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6.
- C. OUTDOOR DESIGN CONDITIONS
1. SUMMER: 98°F DB/66°F WB (ASHRAE 0.5%, PLACERVILLE, CALIFORNIA)
 2. WINTER: 26°F (ASHRAE 0.2%, PLACERVILLE, CALIFORNIA)
 3. ELEVATION: 1785 FT.
 4. CALIFORNIA CLIMATE ZONE: 12
- D. INDOOR DESIGN CONDITIONS
1. PUBLIC AREAS:
 - a. COOLING: 74°F +/- 2°F
 - b. HEATING: 70°F +/- 2°F
 - c. PRESSURIZATION: POSITIVE TO OUTDOORS
 2. OFFICES AREAS:
 - a. COOLING: 74°F +/- 2°F
 - b. HEATING: 70°F +/- 2°F
 - c. PRESSURIZATION: POSITIVE TO OUTDOORS
 3. ANIMAL HOLDING AND PROCEDURE AREAS:
 - a. COOLING: 79°F +/- 4°F
 - b. HEATING: 67°F +/- 3°F
 - c. PRESSURIZATION: NEGATIVE TO ADJACENT AREAS
 4. EXCEPTIONS:
 - a. ELEC. ROOMS: 90°F +/- 2°F MAXIMUM
 - DATA/TELECOM ROOMS: COOLING ONLY, 78°F +/- 2°F (MAXIMUM)
 5. HUMIDITY CONTROL
 - a. NONE
- E. VENTILATION CRITERIA:
1. ANIMAL HOLDING AREAS: 10 AIR CHANGES PER HOUR.
 2. PUBLIC AREAS: 6 AIR CHANGES PER HOUR (PARTIAL RECIRCULATION)
 3. ALL OTHER OCCUPIED AREAS: 15 CFM/PERSON OR 0.15 CFM/SQ.FT. MINIMUM, WHICHEVER IS GREATER.
 4. COMPLY WITH CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD.
 5. COMPLY WITH CHAPTER 4 OF CMC OR ASHRAE 62.1.
- F. EXHAUST TO OUTDOORS (MINIMUM RATES)
1. ANIMAL HOLDING AREAS: 12 AIR CHANGES PER HOUR MINIMUM.
 2. ISOLATION, INFECTION AND EUTHANASIA AREAS: 20 AIR CHANGES PER HOUR MINIMUM
 3. TOILET ROOMS: 12 AIR CHANGES PER HOUR OR 75 CFM/FIXTURE, WHICHEVER IS GREATER.
 4. JANITOR CLOSET: 100 CFM OR 10 AIR CHANGES PER HOUR, WHICHEVER IS GREATER.
 5. LOCKER ROOMS: 12 AIR CHANGES PER HOUR
 6. SHOWER ROOMS: 12 AIR CHANGES PER HOUR
- G. BUILDING ENVELOPE
1. GLAZING: GLASS/FRAME COMBINATION
 - a. TYPICAL VERTICAL:
 - 1) DESCRIPTION: DOUBLE PANE, LOW-E
 - 2) U = 0.43 (GLASS ONLY)
 - 3) U = 0.49 (WITH FRAME)
 - 4) SOLAR HEAT GAIN FACTOR (SHADING COEFFICIENT) = 0.72
 2. WALL CONSTRUCTION:
 - a. 8" CONCRETE
 - b. INSULATION: R-19 BATT INSULATION
 - c. OVERALL U-VALUE = 0.050
 3. ROOF CONSTRUCTION:
 - a. 2X6 @ 16" WOOD FRAMING
 - b. ROOFING: WHITE ONE-PLY WHITE; MULTI-LAYER BUILT-UP ROOFING WITH REFLECTIVE COATING
 - c. INSULATION: R-30 FIBERGLASS BATTS
 - d. OVERALL U-VALUE = 0.031

MECHANICAL BASIS OF DESIGN

- H. INTERNAL HEAT GAINS
1. LIGHTING:
 - a. OFFICE: 1.1 W/SQ.FT.
 - b. CONFERENCE ROOM: 1.3 W/SQ.FT.
 - c. LOBBY: 1.1 W/SQ.FT.
 - d. CORRIDOR & RESTROOM: 0.6 W/SQ.FT.
 - e. ANIMAL HOLDING AND PROCEDURE AREAS: 1.0 W/SQ.FT.
 2. RECEPTACLE POWER IN OFFICES AREAS: 1.2 W/SQ.FT.
 3. DATA ROOMS: 40 W/SQ.FT.
 4. OCCUPANCY CRITERIA:
 - a. OFFICE OCCUPANT: 255 BTUH SENSIBLE/245 BTUH LATENT
 - b. OPEN OFFICE: 1 PERSON/100 SQ.FT.
 - c. ENCLOSED OFFICE: 1 PERSON
 - d. CONFERENCE ROOM: 1 PERSON/15 SQ.FT.
 - e. PROCEDURE ROOM: 1 PERSON/50 SQ.FT.
 5. ZONING CRITERIA:
 - a. PRIVATE OFFICES: ONE ZONE (TEMPERATURE SENSOR) PER FOUR (MAXIMUM) PRIVATE OFFICES.
 - b. OPEN OFFICE SPACES: ONE ZONE (TEMPERATURE SENSOR) PER 1,000 SQUARE FEET OR AS INDICATED ON THE DRAWINGS.
 - c. CONFERENCE ROOMS: ONE ZONE (TEMPERATURE SENSOR) PER ROOM
 - d. LOBBY: ONE ZONE (TEMPERATURE SENSOR)
 - e. DATA/TELECOM: ONE ZONE (TEMPERATURE SENSOR) PER ROOM
 - f. ANIMAL HOLDING AREAS: ONE SINGLE COMBINED ZONE, ONE ZONE (TEMPERATURE SENSOR)
- I. DUCTWORK DESIGN CRITERIA (MAXIMUM ALLOWABLE VALUES). AIR VELOCITIES ABOVE THESE MAXIMUM VALUES REQUIRE ACOUSTICAL TREATMENT.
1. SUPPLY DUCTS:
 - a. EXPOSED IN OCCUPIED SPACES: 0.08" WG/100 FT AND 1500 FT/MIN VELOCITY
 - b. ABOVE CEILING IN OCCUPIED SPACES: 0.08" WG/100 FT AND 1800 FT/MIN VELOCITY
 2. RETURN/EXHAUST DUCTS:
 - a. EXPOSED IN OCCUPIED SPACES: 0.06" WG/100 FT AND 1000 FT/MIN VELOCITY
 - b. ABOVE CEILING IN OCCUPIED SPACES: 0.06" WG/100 FT AND 1500 FT/MIN VELOCITY
 3. GENERAL BUILDING/TOILET EXHAUST DUCTS: 0.10" WG/100 FT AND 1500 FT/MIN VELOCITY
- J. ACOUSTICAL
1. THE FOLLOWING NOISE NC/RC CRITERIA LEVELS WILL BE ACHIEVED AND AS DEFINED IN THE ASHRAE HVAC APPLICATIONS HANDBOOK. THESE LEVELS ADDRESS THE MECHANICAL SYSTEMS ONLY. ACTUAL SOUND PERFORMANCE REQUIREMENTS FOR EACH SPACE MUST BE VERIFIED WITH ACOUSTICAL CONSULTANT.
 - a. OPEN OFFICES: 30 TO 40
 - b. CONFERENCE ROOMS: 25 TO 30
 - c. PRIVATE OFFICES: 25 TO 30
 - d. CORRIDORS AND LOBBIES: 30 TO 40
 - e. ANIMAL HOLDING AREAS: 40 TO 50
- K. SEISMIC:
1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.
- L. THE HVAC SYSTEM INCLUDES THE FOLLOWING SUSTAINABLE AND PROJECT SPECIFIC DESIGN FEATURES:
1. NO CFC BASED REFRIGERANTS ARE USED IN THE EIGHT INDIVIDUAL BUILDING HVAC SYSTEMS
 2. SELECT REFRIGERANTS AND HVAC EQUIPMENT THAT MINIMIZE AND ELIMINATE THE EMISSIONS OF COMPOUNDS THAT CONTRIBUTE TO OZONE DEPLETION.
 3. ALL DUCTWORK IS SEALED PER SMACNA SEAL CLASS A WITH MAXIMUM 5% LEAKAGE RATE AT 1.5X THE OPERATING PRESSURE OF THE SUPPLY FANS.
 4. ONE NEW GRADE MOUNTED 100% OUTSIDE AIR INDIRECT EVAPORATIVE COOLING FOR ANIMAL HOLDING AND PROCEDURE AREAS, ALSO KNOWN AS AN IDEC UNIT.
 5. EXHAUSTED AIR FROM ANIMAL HOLDING AREAS WILL BE USED TO TEMPER THE INCOMING OUTSIDE AIR, ALSO KNOWN AS HEAT RECOVERY.
 6. EXISTING HVAC ROOF CURBS AND ELECTRICAL CONNECTIONS WILL BE RE-USED WHERE POSSIBLE.
 7. SUPPLY AIR IS CONSTANT VOLUME AND DISTRIBUTED TO EACH UNIQUE THERMAL ZONE VIA LOW PRESSURE DUCTWORK. THE RETURN OR EXHAUST AIR IS FULLY DUCTED AND EVERY ATTEMPT WILL BE MADE TO RE-USE EXISTING GRILLES, REGISTERS AND DIFFUSERS.
 8. ALL PACKAGE GAS-ELECTRIC UNITS AND THE IDEC UNIT INCLUDE A GAS FIRED FURNACE, GAS SHALL BE LIQUEFIED PROPANE GAS SUPPLIED FROM AN ON-SITE STORAGE TANK.
 9. IDEC UNIT TO HAVE N+1 REDUNDANCY ON THE EXHAUST (HEAT RECOVERY) FANS AND THE SUPPLY FANS. ALL FOUR FANS WILL HAVE VARIABLE FREQUENCY DRIVES.



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**EL DORADO COUNTY
 EDC ANIMAL SHELTER FACILITY**
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA

#	REVISIONS

GLUMAC PROJECT #: 03.13.00602
 CHECKED BY: RM
 DRAWN BY: DVH
 DATE: 12/3/13

SHEET CONTENTS:
MECHANICAL BASIS OF DESIGN

M0.1

CONSTRUCTION DOCUMENTS SET

PACKAGED ROOFTOP AC UNIT SCHEDULE - WITH GAS HEAT

TAG	MANUFACTURER	MODEL NUMBER	NOMINAL CAPACITY (TONS)	SUPPLY							VFD (Y/N)	AIR ECONOMIZER (Y/N)	POWER EXHAUST (HP)	ELECTRICAL			EMERG POWER (Y/N)	TOTAL (MBH)	SENS (MBH)	COOLING (AT 95°F AMBIENT)				SEER	REFRIG TYPE	REFRIG (LBS.)	HEATING		FILTER		UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
				AIRFLOW (CFM)	MIN OSA (CFM)	ESP (IN.WG.)	TSP (IN.WG.)	DRIVE	BHP	HP				V/PH	MCA (A)	MOCF (A)				EAT DB/WB (°F)	LAT DB/WB (°F)	EER	INPUT (MBH)				OUTPUT (MBH)	AFUE (%)	TYPE	MERV			
AC-1	CARRIER	48TCDA04A1A6	3	900	170	0.6	-	BELT	0.32	0.50	N	N	N/A	460/3	11.0	15	N	30.6	21.6	80 / 67	57.9 / 54.1	11.0	13.0	410-A	5.5	115	89	80	DISPOSABLE	13	74"x46"x34"	485	1,4,6,7,8,9,10
AC-2	CARRIER	48TCDA04A1A6	3	900	270	0.6	-	BELT	0.32	0.50	N	N	N/A	460/3	11.0	15	N	30.6	21.6	80 / 67	57.9 / 54.1	11.0	13.0	410-A	5.5	115	89	80	DISPOSABLE	13	74"x46"x34"	485	1,4,6,7,8,9,10
AC-3	CARRIER	48TCDA05A1A6	4	1600	290	0.6	-	BELT	0.73	0.75	N	N	N/A	460/3	12.0	15	N	45.1	33.2	80 / 67	59.8 / 57.3	11.0	13.0	410-A	8.5	115	90	81	DISPOSABLE	13	74"x46"x34"	540	1,4,6,7,8,9,10
AC-4	CARRIER	48TCDA06A1A6	5	2000	2000	0.6	-	BELT	1.20	1.50	N	N	N/A	460/3	17.3	25	N	56.1	43.2	80 / 67	59.8 / 57.3	11.0	13.0	410-A	8.5	115	90	81	DISPOSABLE	13	74"x46"x34"	540	1,4,6,7,8,9,10,11
AC-5	CARRIER	48TCDA04A1A6	3	900	215	0.6	-	BELT	0.32	0.50	N	N	N/A	460/3	11.0	15	N	30.6	21.6	80 / 67	57.9 / 54.1	11.0	13.0	410-A	5.5	115	89	80	DISPOSABLE	13	74"x46"x34"	485	1,4,6,7,8,9,10
AC-6	CARRIER	48TCDA04A1A6	3	900	900	0.6	-	BELT	0.32	0.50	N	N	N/A	460/3	11.0	15	N	30.6	21.6	80 / 67	57.9 / 54.1	11.0	13.0	410-A	5.5	115	89	80	DISPOSABLE	13	74"x46"x34"	485	1,4,6,7,8,9,10,11
AC-7	CARRIER	48TCDA04A1A6	3	900	215	0.6	-	BELT	0.32	0.50	N	N	N/A	460/3	11.0	15	N	30.6	21.6	80 / 67	57.9 / 54.1	11.0	13.0	410-A	5.5	115	89	80	DISPOSABLE	13	74"x46"x34"	485	1,4,6,7,8,9,10
AC-8	CARRIER	48TCDA04A1A6	3	900	275	0.6	-	BELT	0.32	0.50	N	N	N/A	460/3	11.0	15	N	30.6	21.6	80 / 67	57.9 / 54.1	11.0	13.0	410-A	5.5	115	89	80	DISPOSABLE	13	74"x46"x34"	485	1,4,6,7,8,9,10

- NOTES
- FUSED DISCONNECT PROVIDED BY ELECTRICAL.
 - PROVIDE INVERTER READY NEMA PREMIUM EFFICIENCY MOTOR WITH SHAFT GROUNDING SYSTEM.
 - PROVIDE 100% MODULATING TEMPERATURE CONTROLLED ECONOMIZER.
 - PROVIDE CURB ADAPTER TO FIT EXISTING ROOF CURB.
 - UNIT TO HAVE VERTICAL DISCHARGE FOR SUPPLY AND RETURN
 - PROVIDE PROPANE GAS HEATING AT 11" WG.
 - PROVIDE SMOKE DETECTOR IN SUPPLY AIR FOR AUTOMATIC UNIT SHUTDOWN ABOVE 2000 CFM.
 - PROVIDE NEMA PREMIUM EFFICIENCY MOTORS ON ALL FANS.
 - PROVIDE FULLY MODULATING BURNER.
 - PROVIDE PROGRAMMABLE THERMOSTAT WITH SWITCHING SUBBASE.
 - UNIT TO OPERATE 24/7.
 - PROVIDE CONDENSER COIL GUARD.

MAKE-UP AIR UNIT SCHEDULE - GAS HEAT

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SUPPLY			ELECTRICAL			GAS HEAT					FILTER		UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES			
				AIRFLOW (CFM)	ESP (IN.WG.)	TSP (IN.WG.)	BHP	HP	V/PH	MCA (A)	VFD (Y/N)	EMERG POWER (Y/N)	INPUT (BTUH)	OUTPUT (BTUH)	AFUE (%)	EAT (°F)				LAT (°F)	TYPE	MERV
MAU-1	WESTERN AIRE	WTS-120	WEST FACE	11,210	1.8	3.8	10.1	15.0	460/3	-	Y	N	800,000	640,000	80	47	85	2" PLEATED	8	198"x126"x80"	10,800	1,2,3,4,5,6,7,8,9

- NOTES
- STARTER AND FUSED DISCONNECT PROVIDED BY ELECTRICAL.
 - PROVIDE INVERTER READY NEMA PREMIUM EFFICIENCY MOTOR WITH SHAFT GROUNDING SYSTEM.
 - PROVIDE FACTORY INSTALLED 115V/1PH GFCI OUTLET.
 - PROVIDE FACTORY INSTALLED SMOKE DETECTOR IN SUPPLY ABOVE 2000 CFM.
 - UNIT TO OPERATE 24/7.
 - PROVIDE FACTORY INSTALLED CONTROLS PACKAGE.
 - PROVIDE INDIRECT GAS FIRED MODULATING BURNER WITH MAXITROL OR EQUIVALENT GAS CONTROLS.
 - PROVIDE 2" ALUMINUM MESH INLET FILTERS.
 - PROVIDE OSA INLET WITH WEATHER HOOD AND MOTORIZED DAMPERS. SPRING RETURN TO CLOSE ON POWER FAILURE.
 - PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION.

FAN SCHEDULE

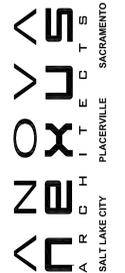
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	AREA SERVED	DISCH	TYPE	DRIVE	AIR FLOW (CFM)	SP (IN.WG.)	MIN. EFF. (%)	FAN RPM	MTR RPM	ELECTRICAL					UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
													BHP	HP	V/PH	VFD (Y/N)	EMERG POWER (Y/N)			
EF-1	GREENHECK	CUBE 360HP-75	MUA-1	ANIMAL HOLDING	UPBLAST	CENTRIFUGAL	BELT	11,640	1.80	-	805	1750	6.58	7.50	460/3	YES	NO	59"x59"x41"	350	2,3,4,5,13
EF-2	GREENHECK	CUBE 360HP-75	MUA-1	ANIMAL HOLDING	UPBLAST	CENTRIFUGAL	BELT	11,640	1.80	-	805	1750	6.58	7.50	460/3	YES	NO	59"x59"x41"	350	2,3,4,5
EF-3	GREENHECK	SWB-110-4	ROOF	EUTHANASIA SUITE	VERTICAL	CENTRIFUGAL	BELT	1035	0.50	-	1586	1750	0.24	1/4	120/1	NO	NO	17"x28"x28"	140	1,3,4,6,7,11,13
EF-4	GREENHECK	GB-091-4	ROOF	GENERAL EXHAUST	ROOFTOP	CENTRIFUGAL	BELT	660	0.50	-	1297	1750	0.14	1/4	120/1	NO	NO	19"x19"x24"	60	1,3,4,7,9,10
EF-5	GREENHECK	GB-081-6	ROOF	GENERAL EXHAUST	ROOFTOP	CENTRIFUGAL	BELT	375	0.45	-	1177	1750	0.08	1/6	120/1	NO	NO	19"x19"x24"	55	1,3,4,7,8,10
TF-1	GREENHECK	CSP-A710	DATA CLOSET	DATA CLOSET	HORIZONTAL	CENTRIFUGAL	BELT	435	0.35	-	1080	1750	-	325 W	120/1	NO	NO	20"x18"x14"	55	1,3,4,7,14

- NOTES
- STARTER AND FUSED DISCONNECT PROVIDED BY ELECTRICAL.
 - VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY MECHANICAL. WIRED BY ELECTRICAL.
 - PROVIDE NEMA PREMIUM EFFICIENCY MOTOR.
 - PROVIDE NON-OVERLOADING MOTOR.
 - PROVIDE INVERTER READY MOTOR WITH SHAFT GROUNDING SYSTEM.
 - PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT PER SPECIFICATIONS.
 - PROVIDE BACKDRAFT DAMPER.
 - INTERLOCK WITH AC-5 SUPPLY FAN.
 - INTERLOCK WITH AC-7 SUPPLY FAN.
 - PROVIDE FACTORY STANDARD ROOF CURB AND CURB SEAL.
 - PROVIDE OSHA BELT AND MOTOR GUARD.
 - PROVIDE OSHA INLET / OUTLET GUARD.
 - FAN TO OPERATE 24/7.
 - FAN TO OPERATE VIA WALL MOUNTED LINE VOLTAGE THERMOSTAT.

DIFFUSER AND GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FACE TYPE	FACE SIZE (INCHES)	COLOR (NOTE #1)	MATERIAL	NOTES
SA	TITUS	MCD	SQUARE CEILING SUPPLY	MODULAR CORE	24 x 24	WHITE	STEEL	2,3,4,5,6,7.
SB	TITUS	MCD	SQUARE CEILING SUPPLY	MODULAR CORE	SEE PLANS	WHITE	STEEL	2,3,4,5,6,7
SC	TITUS	TMS	SQUARE CEILING SUPPLY	LOUVERED	24 x 24	WHITE	STEEL	1,2,3,4,5,6,7
SD	TITUS	TMRA	ROUND CEILING SUPPLY	LOUVERED	SEE PLANS	WHITE	STEEL	2,3,4,5,6,7
RA	TITUS	PAR	SQUARE CEILING RETURN	PERFORATED	24 x 24	WHITE	STEEL	2,3,4,5,6,7
RB	TITUS	350 RL	BAR FACE GRILLE	3/4" SPACING, 35° DEFLECTION	SEE PLANS	WHITE	STEEL	2,3,4,5,6,7
RC	TITUS	PAR	SQUARE CEILING RETURN	PERFORATED	24 x 24	WHITE	STEEL	1,2,3,4,5,6,7
TA	TITUS	PAR	SQUARE CEILING TRANSFER	PERFORATED	24 x 24	WHITE	STEEL	2,3,4,5,6,7
TB	TITUS	350 RL	BAR FACE GRILLE	3/4" SPACING, 35° DEFLECTION	SEE PLANS	WHITE	STEEL	2,3,4,5,6,7
TC	TITUS	PAR	SQUARE CEILING TRANSFER	PERFORATED	24 x 24	WHITE	STEEL	1,2,3,4,5,6,7
EA	TITUS	PAR	SQUARE CEILING EXHAUST	PERFORATED	24 x 24	WHITE	STEEL	2,3,4,5,6,7
EB	TITUS	350 RL	BAR FACE GRILLE	3/4" SPACING, 35° DEFLECTION	SEE PLANS	WHITE	STEEL	2,3,4,5,6,7
EC	TITUS	PAR	SQUARE CEILING EXHAUST	PERFORATED	24 x 24	WHITE	STEEL	1,2,3,4,5,6,7

- NOTES
- EXISTING DIFFUSER TO BE RE-USED.
 - MAXIMUM TOTAL PRESSURE DROP SHALL NOT EXCEED 0.15" WG WITH DUCT TRANSITION.
 - MAXIMUM NC LEVEL SHALL BE NC-30.
 - ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.
 - COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.
 - NECK SIZE AND CFM SHOWN ARE ON PLANS (EXAMPLE: SA12x12-400 REFERS TO TAG "SA" WITH 12x12 NECK AND 400 CFM).
 - PROVIDE RECTANGULAR/SQUARE TO ROUND TRANSITION AS REQUIRED AND SIZED FOR MAXIMUM 0.01" WG TOTAL PRESSURE DROP.



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**EL DORADO COUNTY
 EDC ANIMAL SHELTER FACILITY**
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA

#	REVISIONS

CONSTRUCTION DOCUMENTS SET

GLUMAC PROJECT #: 03.13.00602
 CHECKED BY: RM
 DRAWN BY: DVH
 DATE: 12/3/13

SHEET CONTENTS:
MECHANICAL SCHEDULES

M0.2

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 5) **MECH-1C**

Project Name: *El Dorado County Animal Shelter* Date: *12/2/2013*
 Project Address: *6435 Capital Ave. Diamond Springs* Climate Zone: *12* Total Cond. Floor Area: *14,551* Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: Nonresidential High-Rise Residential Hotel/Motel Guest Room
 Schools (Public School) Relocatable Public School Bldg. Conditioned Spaces Unconditioned Spaces (affidavit)
 Phase of Construction: New Construction Addition Alteration
 Approach of Compliance: Component Overall Envelope TDV Energy Unconditioned (file affidavit)
 Front Orientation: N, E, S, W or in Degrees: *135 deg*

Equipment ²	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Pass	Fail - Describe Reason ³
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>AC-1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type ³	<i>Packaged DX</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity ¹	<i>2,803 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency ¹	<i>81% AFUE</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity ¹	<i>25.162 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency ¹	<i>13.0 SEER / 11.0 EER</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins. vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

Equipment ²	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Pass	Fail - Describe Reason ³
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>AC-2</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type ³	<i>Packaged DX</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity ¹	<i>12,300 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency ¹	<i>81% AFUE</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity ¹	<i>47,226 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency ¹	<i>13.0 SEER / 11.0 EER</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins. vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
 2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
 3. Indicate Equipment Type: Gas (Pkg or Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.
 EnergyPro 5.1 by EnergySoft User Number: 3124 RunCode: 2013-12-02T11:02:23 ID: 03.13.00602 Page 3 of 26

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 5) **MECH-1C**

Project Name: *El Dorado County Animal Shelter* Date: *12/2/2013*
 Project Address: *6435 Capital Ave. Diamond Springs* Climate Zone: *12* Total Cond. Floor Area: *14,551* Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: Nonresidential High-Rise Residential Hotel/Motel Guest Room
 Schools (Public School) Relocatable Public School Bldg. Conditioned Spaces Unconditioned Spaces (affidavit)
 Phase of Construction: New Construction Addition Alteration
 Approach of Compliance: Component Overall Envelope TDV Energy Unconditioned (file affidavit)
 Front Orientation: N, E, S, W or in Degrees: *135 deg*

Equipment ²	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Pass	Fail - Describe Reason ³
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>AC-3</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type ³	<i>Packaged DX</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity ¹	<i>9,264 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency ¹	<i>81% AFUE</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity ¹	<i>40.191 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency ¹	<i>13.0 SEER / 11.0 EER</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins. vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

Equipment ²	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Pass	Fail - Describe Reason ³
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>AC-4</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type ³	<i>Packaged DX</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity ¹	<i>11,252 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency ¹	<i>81% AFUE</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity ¹	<i>44,800 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency ¹	<i>13.0 SEER / 11.0 EER</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins. vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
 2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
 3. Indicate Equipment Type: Gas (Pkg or Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.
 EnergyPro 5.1 by EnergySoft User Number: 3124 RunCode: 2013-12-02T11:02:23 ID: 03.13.00602 Page 4 of 26

CERTIFICATE OF COMPLIANCE (Part 5 of 5) **MECH-1C**

Project Name: *El Dorado County Animal Shelter* Date: *12/3/2013*

Documentation Author's Declaration Statement

I certify that this Certificate of Compliance documentation is accurate and complete.
 Name: *Dave Huhn* Signature: *[Signature]*
 Company: *GLUMAC* Date: *12/3/2013*
 Address: *910 Glenn Dr.* CEA # *CEPE #*
 City/State/Zip: *Folsom, CA 95630* Phone: *(916) 934-5103*

The Principal Mechanical Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the mechanical design.
- This Certificate of Compliance identifies the mechanical features and performance specifications required for compliance with Title-24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: *Dave Huhn, P.E.* Signature: *[Signature]*
 Company: *Glumac* Date: *12/3/2013*
 Address: *910 Glenn Dr.* License # *M32545*
 City/State/Zip: *Folsom, CA 95630* Phone: *(916) 934-5103*

Mandatory Measures
 Indicate location on building plans of Note Block for Mandatory Measures.

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

MECH-1C Certificate of Compliance. Required on plans for all submittals.
 MECH-2C Mechanical Equipment Summary is required for all submittals.
 MECH-3C Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation.
 MECH-4C Fan Power Consumption is required for all prescriptive submittals.

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the 2008 Nonresidential Manual. Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.
 EnergyPro 5.1 by EnergySoft User Number: 3124 RunCode: 2013-12-03T08:07:42 ID: 03.13.00602 Page 11 of 26

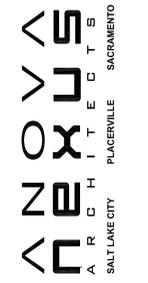
AIR SYSTEM REQUIREMENTS (Part 1 of 2) **MECH-2C**

Project Name: *El Dorado County Animal Shelter* Date: *12/2/2013*

Item or System Tags (i.e. AC-1, RTU-1, HP-1)	Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...)		
	AC-1	AC-2	AC-3
Number of Systems	1	1	1
Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)			
MANDATORY MEASURES			
T-24 Sections			
Heating Equipment Efficiency	112(a) 81% AFUE	81% AFUE	81% AFUE
Cooling Equipment Efficiency	112(a) 13.0 SEER / 11.0 EER	13.0 SEER / 11.0 EER	13.0 SEER / 11.0 EER
HVAC Heat Pump Thermostat	112(b), 112(c) n/a	n/a	n/a
Furnace Controls/Thermostat	112(c), 115(a) Required	Required	Required
Natural Ventilation	121(b) No	No	No
Mechanical Ventilation	121(b) 112 cfm	244 cfm	202 cfm
VAV Minimum Position Control	121(c) No	No	No
Demand Control Ventilation	121(c) No	No	No
Time Control	122(a) Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(a) Setback Required	Setback Required	Setback Required
Outdoor Damper Control	122(f) Auto	Auto	Auto
Isolation Zones	122(g) n/a	n/a	n/a
Pipe Insulation	123		
Duct Location/ R-Value	124 Attic, Ceiling Ins. vented / 8.0	Attic, Ceiling Ins. vented / 8.0	Attic, Ceiling Ins. vented / 8.0

Equipment ²	FIELD INSPECTION ENERGY CHECKLIST		
	Pass	Fail - Describe Reason ³	Fail - Describe Reason ³
Calculated Design Heating Load	144(a & b) 2,803 Btu/hr	12,300 Btu/hr	9,264 Btu/hr
Proposed Heating Capacity	144(a & b) 90,000 Btu/hr	90,000 Btu/hr	90,000 Btu/hr
Calculated Design Cooling Load	144(a & b) 17,627 Btu/hr	33,060 Btu/hr	28,134 Btu/hr
Proposed Cooling Capacity	144(a & b) 47,369 Btu/hr	48,302 Btu/hr	48,118 Btu/hr
Fan Control	144(c) Constant Volume	Constant Volume	Constant Volume
DP Sensor Location	144(c)		
Supply Pressure Reset (DDC only)	144(c) No	No	No
Simultaneous Heat/Cool	144(d) No	No	No
Economizer	144(e) No Economizer	No Economizer	No Economizer
Heat Air Supply Reset	144(f) Constant Temp	Constant Temp	Constant Temp
Cool Air Supply Reset	144(f) Constant Temp	Constant Temp	Constant Temp
Electric Resistance Heating ¹	144(g)		
Air Cooled Chiller Limitation	144(h)		
Duct Leakage Sealing: If Yes, a MECH-4-A must be submitted	144(k) No	No	No

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.
 EnergyPro 5.1 by EnergySoft User Number: 3124 RunCode: 2013-12-02T11:02:23 ID: 03.13.00602 Page 12 of 26



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GLUMAC PROJECT #: 03.13.00602
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SHEET CONTENTS:
MECHANICAL TITLE-24



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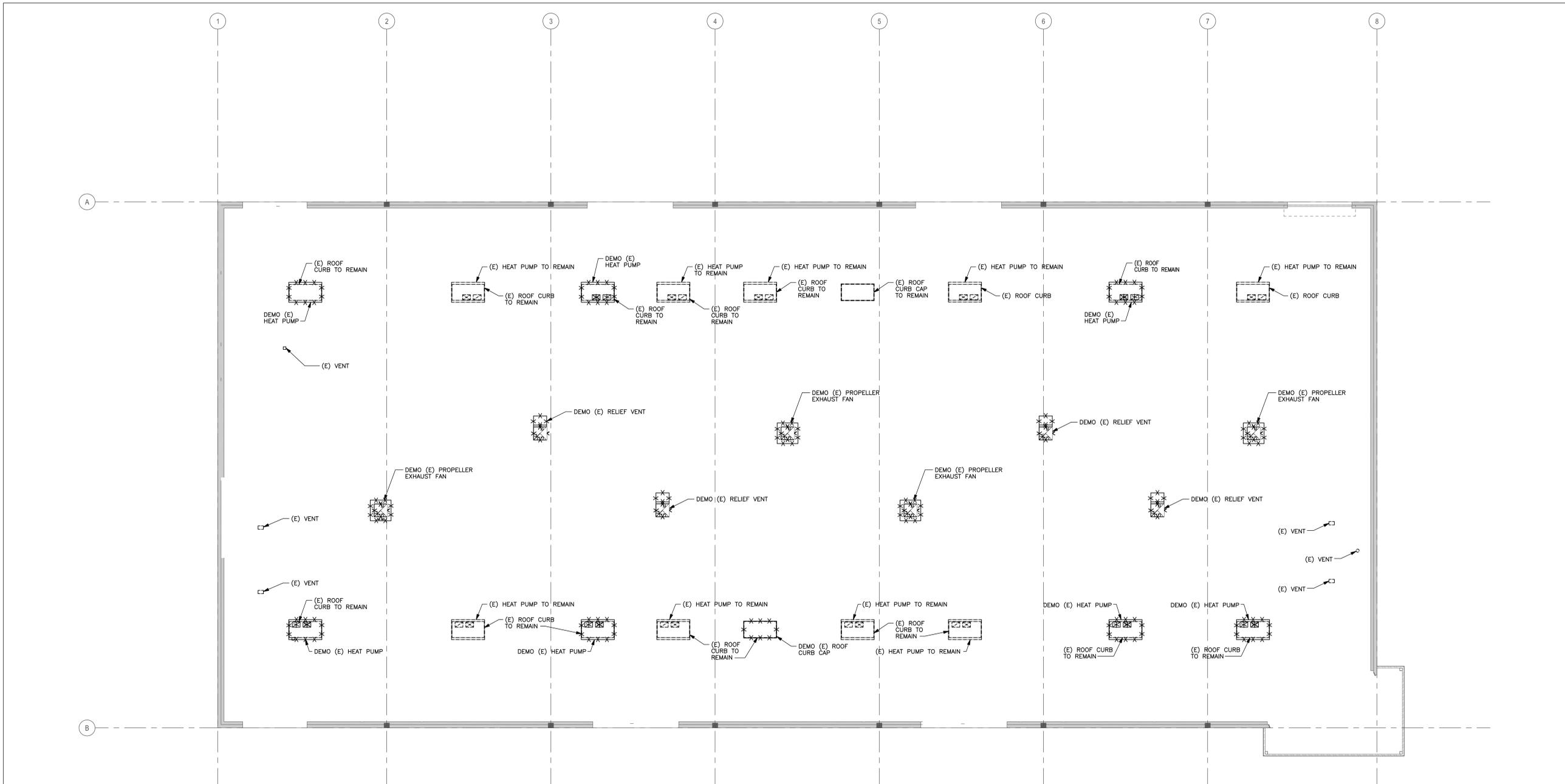
 DRAWN BY: DVH

 DATE: 12/3/13

 SHEET CONTENTS:

**MECHANICAL
 ROOF DEMOLITION
 PLAN**

M2.0



1 MECHANICAL ROOF DEMOLITION PLAN

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



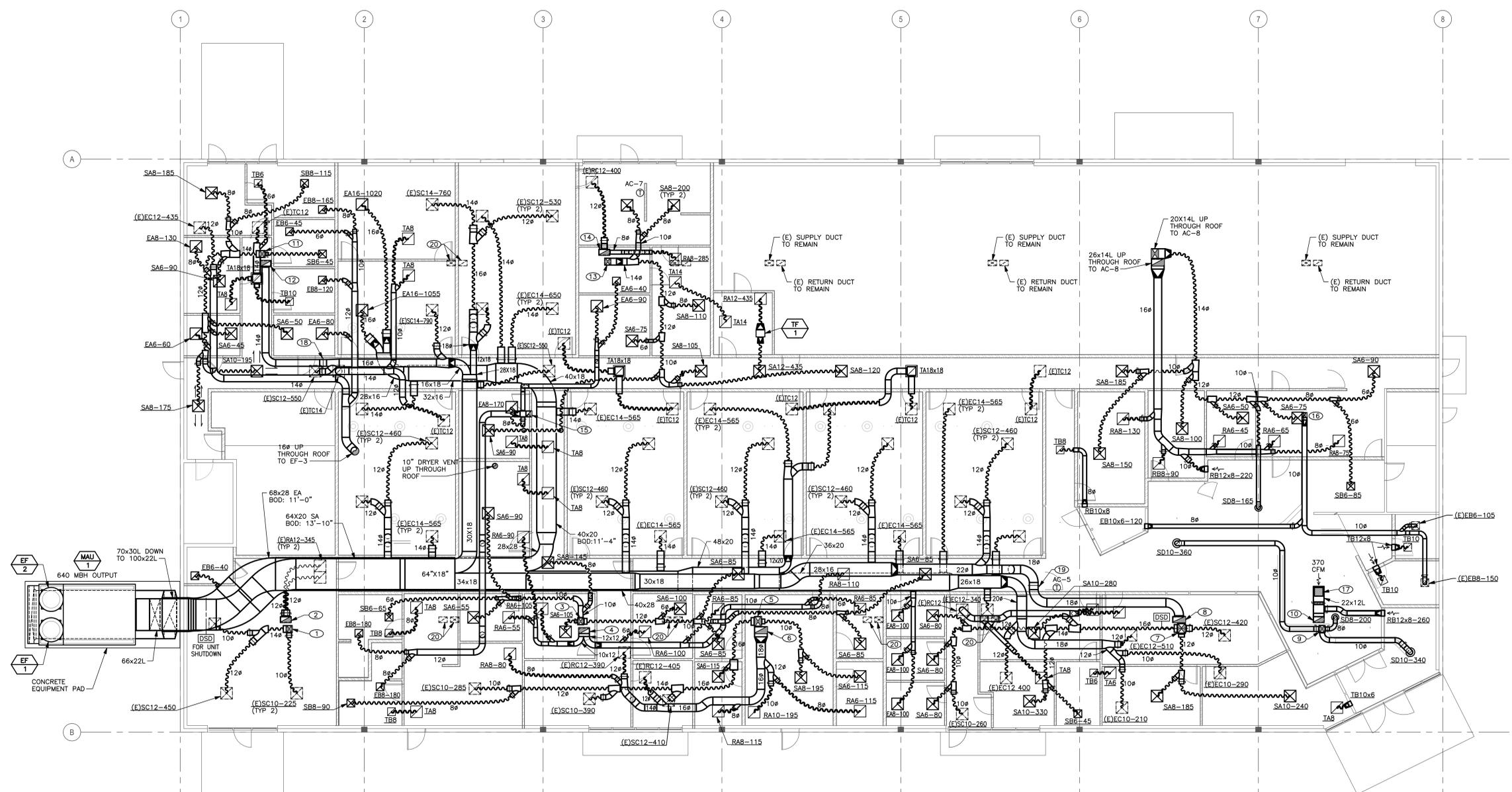


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1 MECHANICAL FLOOR PLAN
 SCALE: 1/8"=1'-0"



KEYED NOTES

1. 12X14L SUPPLY DUCT UP THROUGH ROOF TO AC-1
2. 12X22L RETURN DUCT UP THROUGH ROOF TO AC-1
3. 12X14L SUPPLY DUCT UP THROUGH ROOF TO AC-2
4. 12X22L RETURN DUCT UP THROUGH ROOF TO AC-2
5. 14X20L SUPPLY DUCT UP THROUGH ROOF TO AC-3
6. 14X26L RETURN DUCT UP THROUGH ROOF TO AC-3
7. 20X16L SUPPLY DUCT UP THROUGH ROOF TO AC-4
8. 26X12L RETURN DUCT UP THROUGH ROOF TO AC-4
9. 12X14L SUPPLY DUCT UP THROUGH ROOF TO AC-5
10. 12X22L RETURN DUCT UP THROUGH ROOF TO AC-5
11. 12X14L SUPPLY DUCT UP THROUGH ROOF TO AC-6
12. 12X22L RETURN DUCT UP THROUGH ROOF TO AC-6
13. 12X14L SUPPLY DUCT UP THROUGH ROOF TO AC-7
14. 12X22L RETURN DUCT UP THROUGH ROOF TO AC-7
15. 12X12 UP THROUGH ROOF TO EF-3
16. 10X10 UP THROUGH ROOF TO EF-5
17. 18X18 SCREENED OPENING ON TOP OF PLENUM
18. SET TO 900 CFM
19. SET TO 2000 CFM
20. CAP EXISTING DUCT



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SHEET CONTENTS:
MECHANICAL FLOOR PLAN

M2.1



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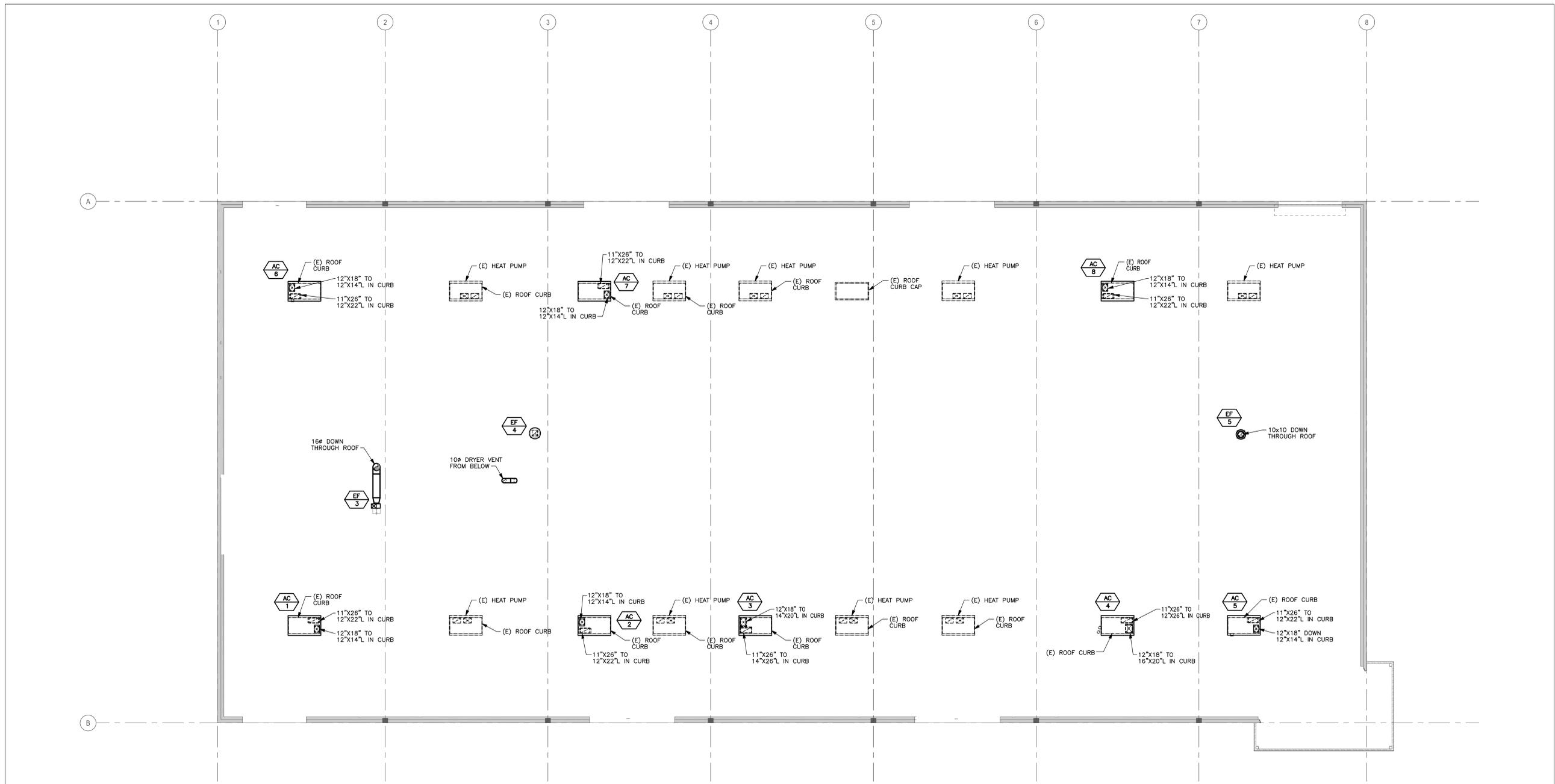
REVISIONS

#	REVISIONS

SHEET CONTENTS:
 MECHANICAL
 ROOF PLAN

M2.2

CONSTRUCTION DOCUMENTS SET



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

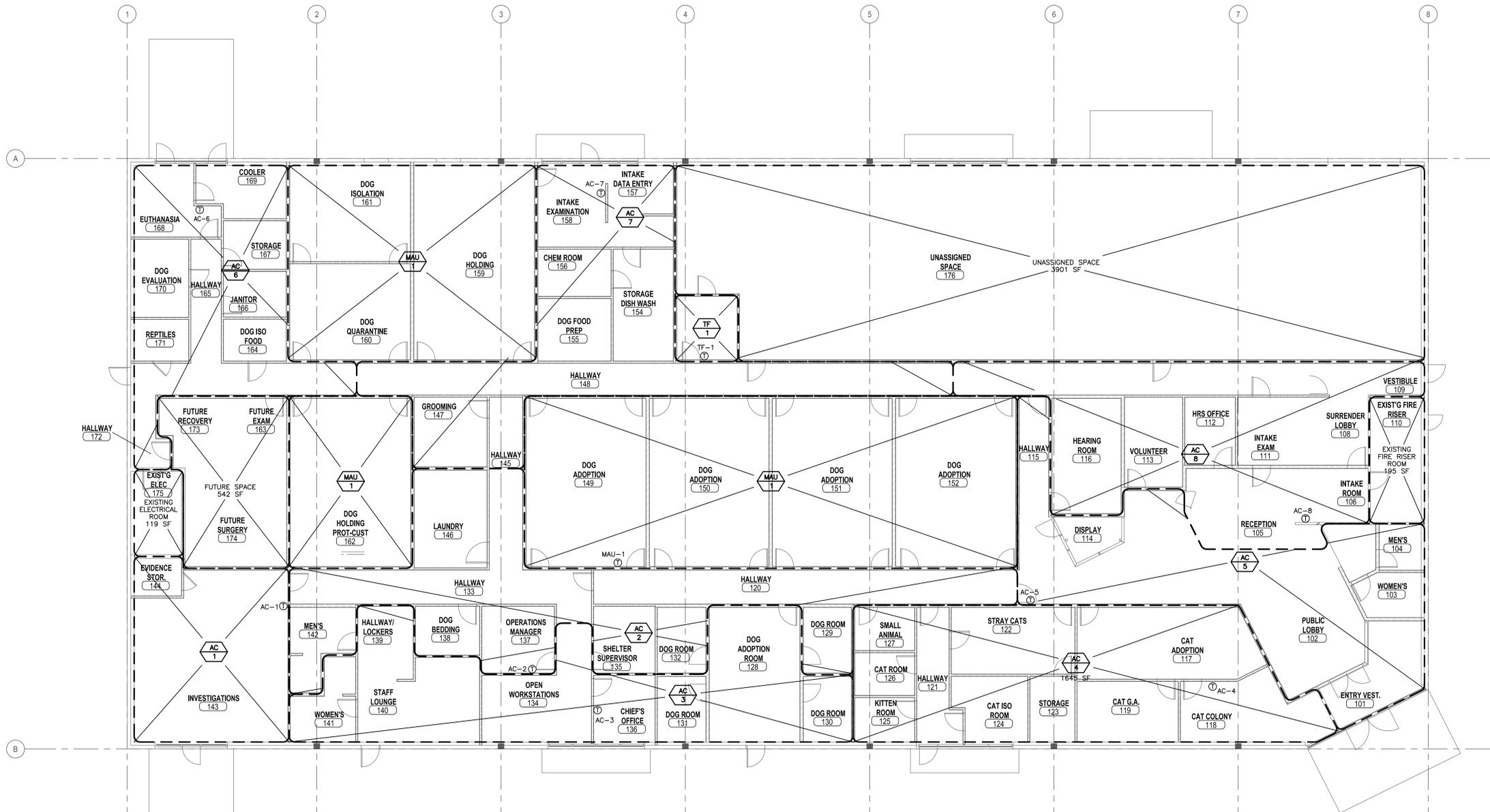


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1 MECHANICAL ZONING PLAN
 SCALE: 1/8"=1'-0"

MECHANICAL ZONING SUMMARY			
ZONE	AREA (SF)	SUPPLY AIRFLOW	NOTES
MUA-1	4244	7210 CFM	2
AC-1	770	900 CFM	
AC-2	1798	900 CFM	4
AC-3	1441	1600 CFM	4
AC-4	1645	2000 CFM	2,6
AC-5	1479	900 CFM	5
AC-6	1125	900 CFM	3,6
AC-7	1605	900 CFM	4
AC-8	1649	900 CFM	
UNASSIGNED SPACE	3901	0	
EXISTING ELECTRICAL ROOM	119	0	
EXISTING FIRE RISER ROOM	195	0	
FUTURE SPACE	542	0	

NOTES
 1. TOTAL AREA: 20,513 SQUARE FEET
 2. EXHAUST BY EF-1, EF-2
 3. EXHAUST BY EF-3
 4. EXHAUST BY EF-4
 5. EXHAUST BY EF-5
 6. UNIT IS SERVED BY MUA-1



REVISIONS

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SHEET CONTENTS:
MECHANICAL ZONING PLAN

M3.1

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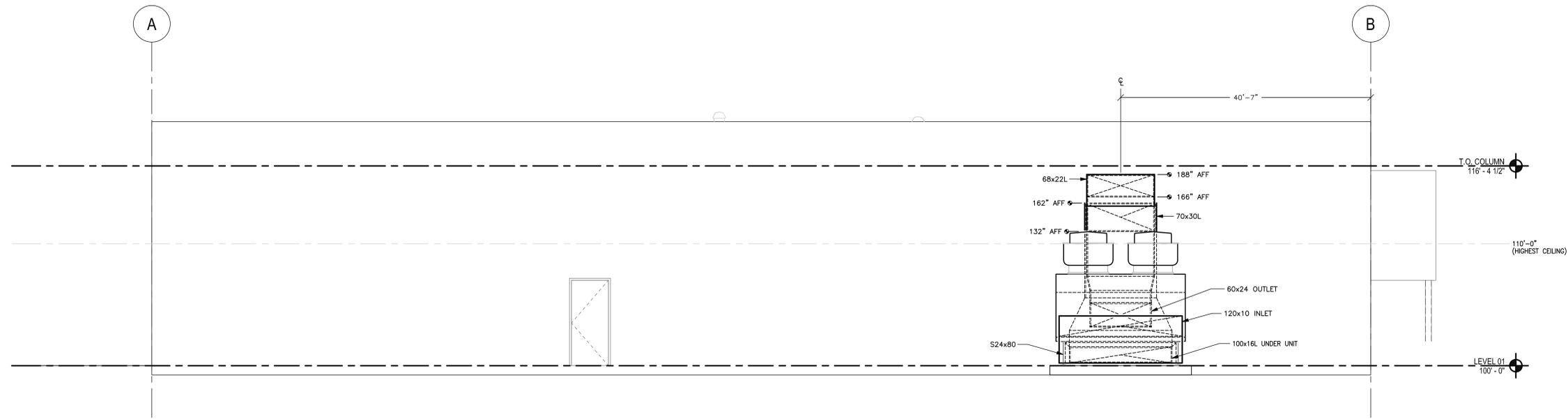
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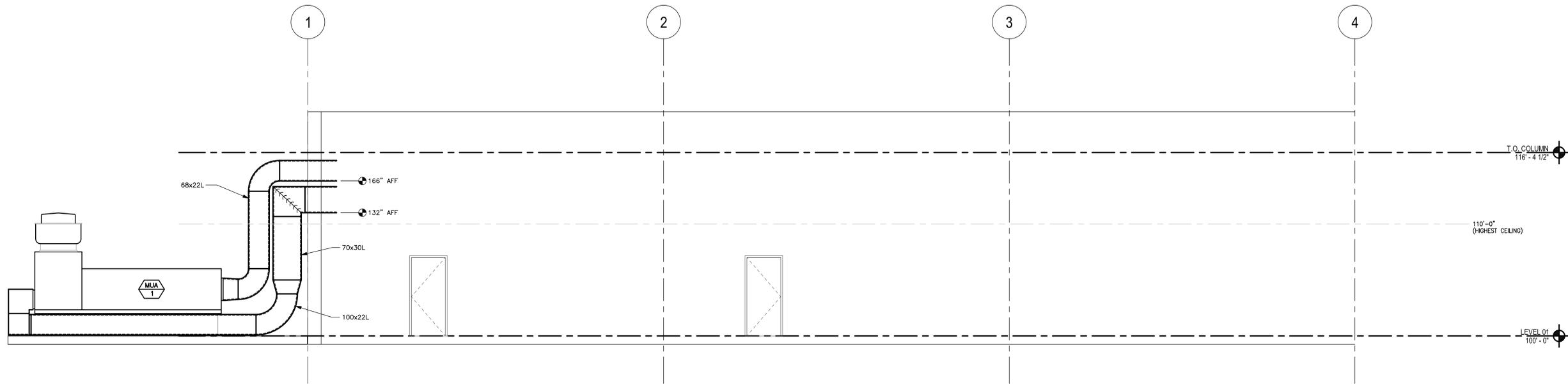
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SHEET CONTENTS:
**MECHANICAL
 ELEVATIONS**

M5.1



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



1 MECHANICAL ELEVATION
 SCALE: 1/4"=1'-0"



CONSTRUCTION DOCUMENTS SET



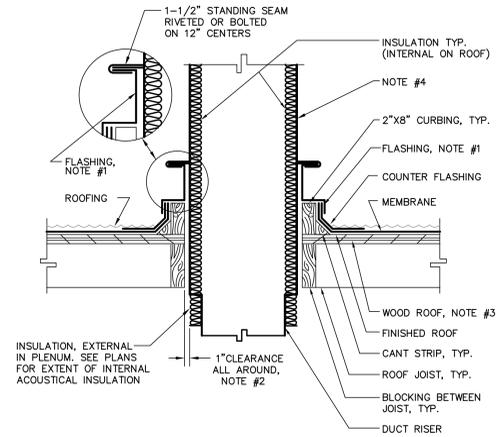
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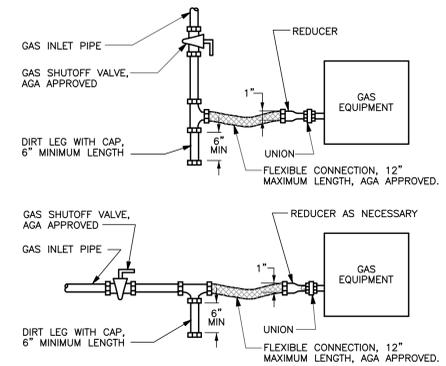


NOTE:

- COORDINATE ROOF OPENING BLOCKING, CURBING, CANT STRIP & FLASHING WITH ROOFING CONTRACTOR. ROOF PENETRATIONS SHALL NOT VOID ROOF WARRANTY.
- IF PENETRATION SHALL BE FIRE RATED, THE PACKING & SEALING MATERIALS & SYSTEM OF INSTALLATION SHALL BE APPROVED BY FIRE MARSHAL.
- COORDINATE SIZE & LOCATION OF ROOF PENETRATION WITH STRUCTURAL ENGINEER.
- SUPPLEMENTAL WIND BRACING MAY BE REQUIRED, COORDINATE WITH STRUCTURAL ENGINEER.

3 DUCT - ROOF PENETRATION

SCALE: NONE

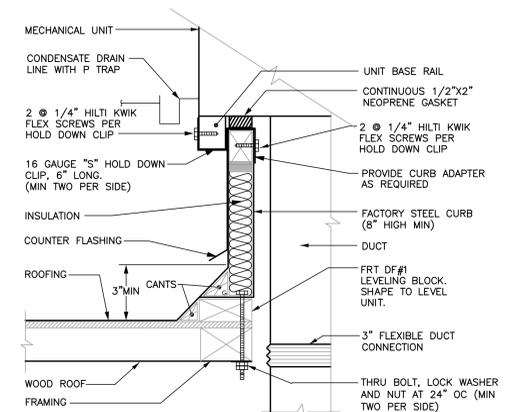


NOTES:

- PAINT ALL GAS PIPING YELLOW.
- DO NOT PAINT BRAIDED HOSE.
- BRAIDED FLEXIBLE CONNECTION NOT ALLOWED OUTDOORS.
- PROVIDE PRESSURE REGULATOR AS REQUIRED.

2 GAS EQUIPMENT PIPE CONNECTION

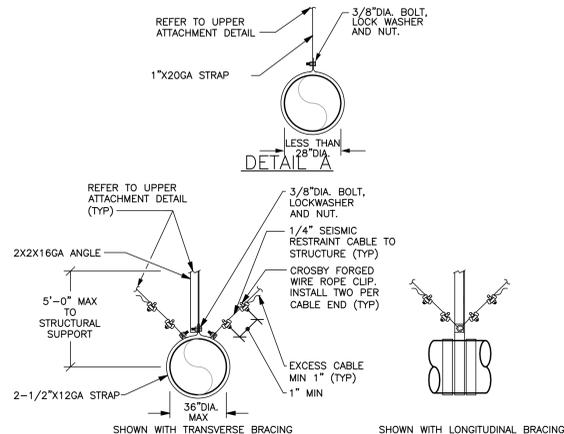
SCALE: NONE



NOTE: COORDINATE EXACT ROOF CONSTRUCTION MEANS AND METHODS WITH ARCHITECTURAL AND STRUCTURAL PLANS.

1 ROOF CURB - WOOD STRUCTURE

SCALE: NONE



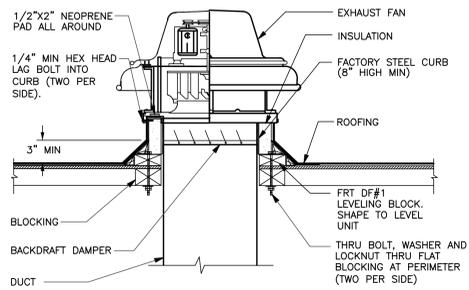
DETAIL B

NOTES:

- HANGERS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION AND NO MORE THAN 10'-0" APART.
- PROVIDE A FLEXIBLE CONNECTION BETWEEN MECHANICAL EQUIPMENT AND DUCT.
- STRAP MAY BE REDUCED TO 1"X22GA FOR DUCT 24"DIA. AND LESS IN DIAMETER.
- SEISMIC RESTRAINT CABLES MAY BE OMITTED WHERE DUCT IS SUPPORTED WITHIN 12" OF STRUCTURE AS MEASURED FROM THE TOP OF DUCT TO THE BOTTOM OF STRUCTURE.
- WHERE SEISMIC CABLE RESTRAINTS ARE REQUIRED,
 - PROVIDE SEISMIC CABLE TRANSVERSE BRACING AT 30 FT AND
 - SEISMIC CABLE LONGITUDINAL BRACING AT 60 FT.
 - SEISMIC CABLE RESTRAINTS ARE NOT REQUIRED AT EVERY HANGER LOCATION.
- VERTICAL HANGERS, DIAGONAL AND HORIZONTAL BRACES TO BE SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL TABLE 5-6.

6 ROUND DUCT SUPPORT

SCALE: NONE

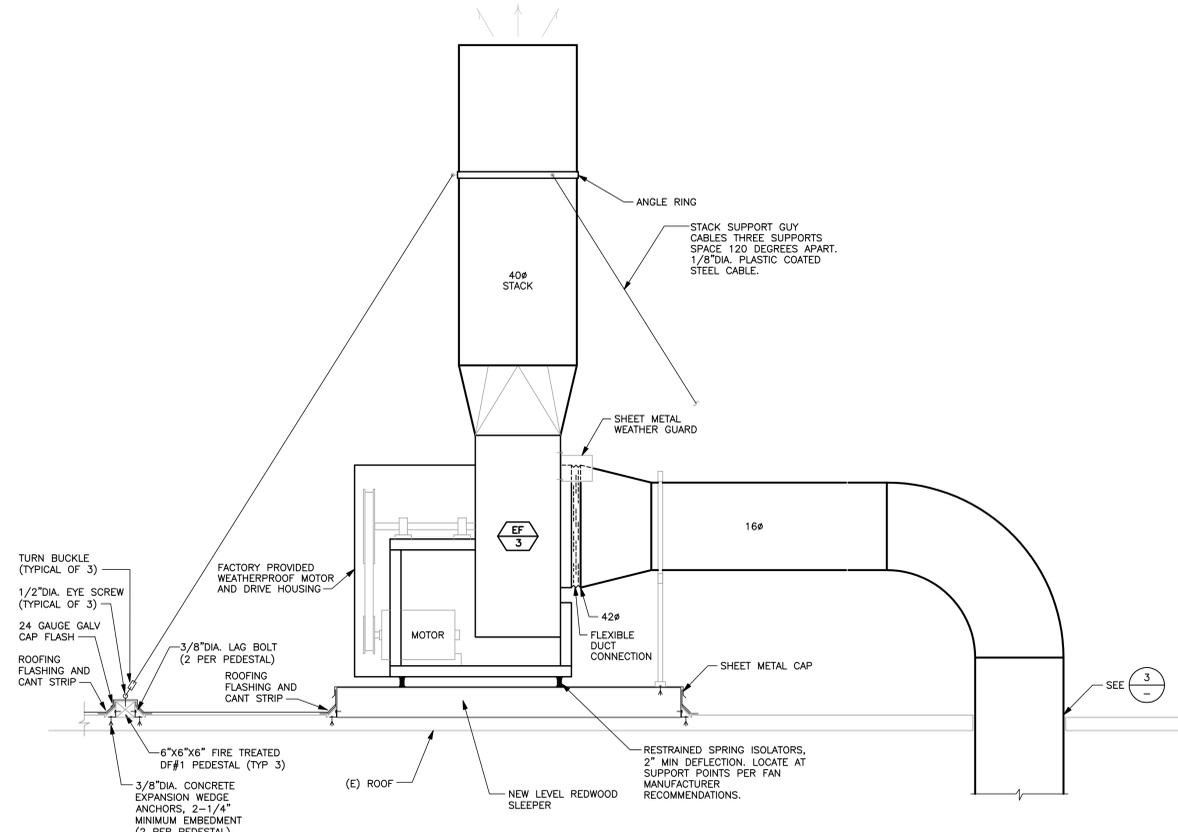


NOTES:

- COORDINATE ANCHORAGE REQUIREMENTS WITH STRUCTURAL DESIGN.

ROOF EXHAUST FAN WOOD STRUCTURE

5 SCALE: NONE



NOTE: COORDINATE EXACT ROOF CONSTRUCTION MEANS AND METHODS WITH ARCHITECTURAL AND STRUCTURAL PLANS.

4 FAN MOUNTING DETAIL

SCALE: NONE

#	REVISIONS

CONSTRUCTION DOCUMENTS SET

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SHEET CONTENTS:

MECHANICAL DETAILS



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#	REVISIONS

SHEET CONTENTS:

ELECTRICAL LEGEND

 E0.0

ELECTRICAL LEGEND

REFER TO DETAILS FOR MOUNTING HEIGHTS OF DEVICES
 NOT ALL SYMBOLS, ABBREV., ETC. ARE NECESSARILY USED ON THIS PROJECT

SYMBOL	DESCRIPTION
	RECESSED LENSED LUMINAIRE (SIZE/SHAPE VARIES)
	RECESSED PARABOLIC LUMINAIRE (SIZE/SHAPE VARIES)
	SURFACE LENSED LUMINAIRE (SIZE/SHAPE VARIES)
	SURFACE PARABOLIC LUMINAIRE (SIZE/SHAPE VARIES)
	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
	SUSPENDED LUMINAIRE (SIZE/SHAPE VARIES)
	POINT SOURCE - SURFACE, RECESSED CEILING MTD. FLOOR OR GRADE MOUNTED BOLLARD
	WALLWASH - SURFACE, RECESSED CEILING MTD. RECESSED WALL POINT SOURCE
	WRAP-AROUND TYPE FLUORESCENTS
	TRACK LIGHTING WITH HEADS AS INDICATED.
	ADJUSTABLE POINT SOURCE - SURFACE CEILING, RECESSED CEILING MOUNTED.
	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.
	WALL SCONCE
	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
	POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD
	POLE TOP MOUNTED LUMINAIRE
	DARK ROOM SAFE LIGHT (TWO COMPARTMENT SHOWN)
	*"FOOT" INDICATES WALL MOUNTED LUMINAIRE
	FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION. LENGTH AS SHOWN.
	UNDERCABINET FLUORESCENT STRIPLIGHT
	FLUSH GRADE POINT SOURCE
	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS
	LUMINAIRE MARKING CONVENTION LEGEND: PTA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE.
	3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE LETTER) THAT SERVES THE LUMINAIRE.
	3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE

SYMBOL	DESCRIPTION
	S ₁ SINGLE POLE SWITCH (SUPERSCRIPIT DENOTES SIMILARLY MARKED LUMINAIRE CONTROLLED TOGETHER), +42" UON
	S ₂ TWO POLE SWITCH, +42" UON
	S ₃ THREE WAY SWITCH, +42" UON
	S ₄ FOUR WAY SWITCH, +42" UON
	S _K KEY OPERATED SWITCH, +42" UON
	D DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD, +42" UON
	D DIMMER SWITCH UNDER SEPARATE COVERPLATE, +42"U.O.N.
	S _P SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH" IS "ON"). +42" UON
	S _{PK} SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). +42" UON
	S _T TIMER SWITCH, +42" UON
	S _{WP} WEATHERPROOF SWITCH, +42" UON
	S _Y THERMAL OVERLOAD SWITCH, +42" UON
	S _{ON} LIGHTING CONTROL OVERRIDE SWITCH, SEQ. NUMBER +42" UON
	PC PHOTOCCELL
	EQP EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY DIV. 16 UON.
	PUSHBUTTON OR PUSHBUTTONS, BY DIV. 16
	TC TIME CLOCK
	OC OCCUPANCY SENSOR - WALL MOUNTED
	T THERMOSTAT - WALL, CEILING. PROVIDED BY DIV. 15, INSTALLED AND WIRED BY DIV. 16
	EMERGENCY POWER OFF, HEAVY-DUTY, OIL-TIGHT RED MUSHROOM-HEAD PUSHBUTTON W/ GUARD.
	LCP LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V OR 277V CONTROL POWER AS REQUIRED OR AS INDICATED.

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED, 120/208V OR 277/480V, DASHED EQUIP. =FUTURE
	MOTOR CONTROL CENTER W/ CODE CLEARANCES SHOWN, DASHED EQUIP. =FUTURE
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CLEARANCES SHOWN
	CONNECTION TO MOTOR PROVIDED BY OTHERS
	CONNECTION TO DIV. 15 FURNISHED VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT DIV. 16 TO INSTALL VFD EQUIPMENT
	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
	BUILDING GROUND BUS. SEE DETAILS.

SYMBOL	DESCRIPTION
	HAND/OFF/AUTO SWITCH TO ATS SWITCH
	OVERLOADS
	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS
	NORMALLY OPEN CONTACTOR OR RELAY CONTACTS
	BUS DUCT
	BUS BAR
	BATTERY GENERAL
	PIPE GROUND
	CONTACTOR COIL
	RELAY COIL
	LIGHTNING SURGE ARRESTER D =DISTRIBUTION CLASS 1 =INTERMEDIATE CLASS
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	NORMALLY OPEN PUSH BUTTON
	NORMALLY CLOSED PUSH BUTTON
	METER: POWER FACTOR
	METER: KILOWATT HOUR
	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE =REMOTE MOUNTED
	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
	TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR CONDUCTOR INSTALLED.
	LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G=GREEN, B=BLUE, Y=YELLOW, W=WHITE
	DELTA CONNECTION
	GROUNDING WYE CONNECTION
	CONNECTION TO GROUND
	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
	GROUND FAULT TRIP UNIT
	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
	MONITORING COMMUNICATION MODULE
	INTEGRAL AMMETER DISPLAY
	KEY INTERLOCK
	FUSE, HOLDER & PULLER

SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE-WALL, CEILING, +18" UON
	DUPLEX RECEPTACLE-WALL, CEILING, +18" UON
	DOUBLE DUPLEX RECEPTACLE-WALL, CLG. +18" UON
	SPECIAL PURPOSE RECEPTACLE-WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED, +18" UON
	RECEPTACLE TYPE SHOWN-WALL-ABOVE COUNTER BACKSPASH. SEE ARCHITECTURAL DRAWINGS.
	DUPLEX RECEPTACLE-WALL-HALF SWITCHED, +18" UON
	COMBINATION SWITCH/DUPLEX RECEPTACLE, +18" UON
	DUPLEX RECEPTACLE-WALL-WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER, +18" UON
	RECEPT. TYPE SHOWN W/ WEATHERPROOF COVER, +18" UON
	RECEPT. TYPE SHOWN AT SPECIAL HEIGHT
	WALL MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 ISOLATED GROUND) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.
	CLOCK HANGER RECEPTACLE
	FLUSH FLOOR BOX DEVICE-DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE-DEVICE TYPE PER SYMBOLS ABOVE
	COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND TELEPHONE OUTLET-FLUSH, PEDESTAL MOUNTED
	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR-SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.
	POKE THRU UNIT WITH JUNCTION BOX. RACEWAY COMPONENTS RC-700 SERIES.
	TELE/POWER POLE, POWER POLE
	TELE/POWER POLE WITH WHIP CONNECTION TO ELECTRIFIED FURNITURE
	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.

SYMBOL	DESCRIPTION
	TERMINAL/MOUNTING BOARD, 8" HIGH X WIDTH AS SHOWN, FIRE TREATED.
	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED-SURFACE, RECESSED MOUNTED
	COMBO TELEPHONE/DATA OUTLET-WALL, +18" UON. PROVIDE 4-11/16" DEEP BOX AND SINGLE GANG RING WITH A 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
	DATA OUTLET-WALL, +18" UON. PROVIDE 4-11/16" DEEP BOX AND SINGLE GANG RING WITH A 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
	SPEAKER-WALL, CEILING
	VOLUME CONTROL-WALL, +42" UON
	RF COAX CABLE OUTLET (TV, VCR, ETC.)
	COMBINATION DATA AND RF COAX CABLE OUTLET
	PUSHBUTTON OR PUSHBUTTONS, +42" UON

SYMBOL	DESCRIPTION
	SHEET NOTE REFERENCE
	BRANCH CIRCUIT OR FEEDER NOMINAL AMPACITY & TYPE; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULES FOR WIRE AND CONDUIT SIZES & QTY.
	REFER TO DETAIL NO. ON DRAWING INDICATED NOT ALL DETAIL REFERENCES ARE SHOWN, ALL DETAILS APPLY TO ALL APPLICABLE SITUATIONS, UON.
	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED
	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED
	KITCHEN EQUIPMENT REFERENCE, REFER TO KITCHEN EQUIPMENT SCHEDULE
	MECHANICAL EQUIPMENT IDENTIFICATION TAG
	EQUIPMENT BY OTHERS IDENTIFICATION TAG

SYMBOL	DESCRIPTION
	WIRING CONCEALED IN CEILING OR WALL. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING EXPOSED. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	EXISTING WIRING TO BE REMOVED
	TELEPHONE SYSTEM CONDUIT
	MEDIUM VOLTAGE CONDUIT
	GROUNDING GRID OR CONDUCTORS
	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
	GROUND, ISOLATED
	HOT NEUTRAL
	HOME RUN WIRING TO INDICATED DESTINATION, 3/4" C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	RACEWAY STUBBED OUT FOR FUTURE CONTINUATION; CAP, MARK AND RECORD LOCATION.
	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
	CABLE TRAY-HORIZONTAL, VERTICAL PLAN VIEW
	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN. LARGER IF REQUIRED
	WIRING EXTENSION POINT-CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILING AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED-ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
	PULL BOX, MIN. SIZE PER NEC., UON.
	UNDERFLOOR RACEWAY
	FLEXIBLE CONDUIT CONNECTION
	GROUND ROD CONNECTION
	GROUND ROD CONNECTION WITH TEST WELL BOX

SYMBOL	DESCRIPTION
	ELECTRICAL CODES
1.	CALIFORNIA ELECTRICAL CODE: 2010 EDITION
2.	CALIFORNIA FIRE CODE: 2010 EDITION WITH NFPA 72, 2008 EDITION
3.	CALIFORNIA BUILDING CODE: 2010 EDITION
4.	AMERICANS WITH DISABILITIES ACT (ADA)

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED.
	FIRE ALARM SYSTEM ANNUNCIATOR
	FIRE ALARM SYSTEM MANUAL PULL STATION, WALL MOUNTED
	ALARM BELL OR GONG
	SPEAKER-CEILING, WALL MOUNTED
	STROBE LIGHT, WALL MOUNTED (# = CANDELA RATING)
	COMBINATION SPEAKER/STROBE, WALL MOUNTED (# = CANDELA RATING)
	HORN-CEILING, WALL MOUNTED
	MINI HORN-CEILING, WALL MOUNTED
	COMBINATION HORN/STROBE, WALL MOUNTED (# = CANDELA RATING)
	SPRINKLER VALVE TAMPER SWITCH CONNECTION
	SPRINKLER FLOW SWITCH CONNECTION
	LIGHT BEAM TYPE SMOKE DETECTOR, BR=BEAM RECEIVER, BT=BEAM TRANSMITTER.
	SMOKE DETECTOR, DUCT MOUNTED, WITH FULL WIDTH SAMPLING TUBES. PHOTOELECTRIC TYPE UON.
	SMOKE DETECTOR, CEILING OR PLENUM, WALL MOUNTED. MULTI-SENSOR TYPE UON.
	ELECTROMAGNETIC DOOR HOLDER-WALL, FLOOR MOUNTED. 24VDC AND PROVIDED BY DIV. 8 UON.
	ADDRESSABLE CONTROL MODULE
	ADDRESSABLE MONITOR MODULE
	END OF LINE RESISTOR (NOT SHOWN ON PLANS)
	DUCT OR AREA SMOKE DETECTOR, AS REQUIRED, UON. SERVING DIV. 15 FIRE/SMOKE DAMPER, WIDTH OF SYMBOL WILL VARY WITH DUCT WIDTH REFER TO FSD CONNECTION DETAIL FOR CONTROL.
	FLAME DETECTOR (FLICKER DETECTOR)
	LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
	HEAT DETECTOR, CEILING MOUNTED. RATE OF RISE AND FIXED TEMPERATURE TYPE, UON.
	FIRE ALARM OUTPUT OR RELEASE ABORT PUSHBUTTON, REFER TO SPECIFICATIONS AND DETAILS

SHEET NO.	DESCRIPTION
E0.0	ELECTRICAL LEGEND
E0.1	ELECTRICAL BASIS OF DESIGN
E0.2	LIGHTING FIXTURE SCHEDULES
E0.3	LIGHTING TITLE 24
E2.1	LIGHTING PLAN
E3.1	POWER PLAN
E5.1	SINGLE LINE DIAGRAM
E5.2	ELECTRICAL PANEL SCHEDULES
E7.1	ENLARGED ELECTRICAL ROOM
E9.1	ELECTRICAL DETAILS

ABBREVIATIONS	
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE REMOVED
AB	ABOVE COUNTER BACKSPASH
ACU	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
A AMP	AMPERES
AF	AMPERE (RATED) FUSE OR CB FRAME
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM (ALLOY)
ALC	AUTOMATIC LIGHTING CONTROL
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BC	BELOW GRADE
C	CONDUIT (CIRCULAR RACEWAY)
CAB	CABINET
CB	CIRCUIT BREAKER
CC	CIRCUIT
CLG	CEILING
CLD	CONDUIT ONLY
CO	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DRAWING	DRAWING
E.EMERG	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRIC METALLIC TUBING
ENCL	ENCLOSURE
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FA	FIRE ALARM
FC	FOOT CANDLES
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FPB	FAN POWERED BOX
FSD	FIRE/SMOKE DAMPER
FU	FUSE
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRAP	GENERATOR REMOTE ANNUNCIATOR PNL
GRC	GALVANIZED RIGID STEEL CONDUIT
HLO	HANDLE LOCK-ON (OFF)
HP	HORSEPOWER
HFF	HIGH POWER FACTOR
HTR	HEATER
HZ	HERTZ (CYCLES PER SECOND)
IN	INCH
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KEY	KEY OPERATED
KCMIL	THOUSAND CIRCULAR MILS
KO	KNOCK OUT
KW	KILOWATT
KVA	KILOVOLT-AMPERES
LTC	LIGHTING CONTROL PANEL
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPERES
MAN	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MNL	MANUAL OPERATOR
MO	

ELECTRICAL BASIS OF DESIGN

ELECTRICAL BASIS OF DESIGN

A. CODES AND STANDARDS

1. AMERICANS WITH DISABILITIES ACT, (ADA)
2. NFPA 101, LIFE SAFETY CODE; 2012 EDITION
Note to Editor - Delete the state code references that do not apply.
3. CALIFORNIA BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
 - a. 2010 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (BASED ON THE 2009 INTERNATIONAL BUILDING CODE WITH STATE AMENDMENTS).
 - b. 2010 CALIFORNIA FIRE CODE (CFC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 9 (BASED ON 2009 UNIFORM FIRE CODE WITH STATE AMENDMENTS).
 - c. 2010 CALIFORNIA ELECTRIC CODE (CEC), BASED ON THE 2008 NATIONAL ELECTRICAL CODE WITH STATE AMENDMENTS

B. LIGHTING DESIGN

1. THE EXISTING SPACE CURRENTLY HAS 2X4, 3-LAMP, TANDEM WIRED, TROFFER FIXTURES THAT WILL BE REUSED WHERE POSSIBLE IN THE NEW SPACE. FIXTURES WILL BE RETROFITTED TO 2-LAMP FIXTURES WHERE APPLICABLE. OWNER WILL REMOVE THE FIXTURES AND STORE THEM ON SITE BEFORE THE PROJECT IS BID. EXISTING FIXTURES WILL BE RE-LAMPED AND CLEANED PRIOR TO THE INSTALLATION.
2. OFFICE AREAS WILL BE PROVIDED WITH NEW DIRECT/INDIRECT 2X4 FIXTURES.
3. DOG ADOPTION AREAS WILL BE PROVIDED WITH NEW WET LOCATION 2X4 FIXTURES.
4. LOBBY AREA WILL BE PROVIDED WITH DECORATIVE LED PENDANTS.
5. THE FUTURE SURGERY AREA WILL BE PROVIDED WITH STRIP FIXTURES FOR MINIMAL LIGHTING.

C. LIGHTING DESIGN CRITERIA USED, BASED ON RECOMMENDED LEVELS BY ILLUMINATING ENGINEERING SOCIETY (IES) Note to Editor - Fill in blanks or delete unnecessary information.

1. HALLWAYS	- 15 FC
2. OFFICES	- 30 FC
3. LOBBY	- 20 FC
4. RESTROOMS	- 20 FC
5. EXAM ROOMS	- 30 FC
6. HOLDING ROOMS	- 20 FC
7. LAUNDRY	- 20 FC

D. LIGHTING CONTROLS:

1. OCCUPANCY SENSORS IN CONFERENCE ROOMS, STORAGE ROOMS, RESTROOMS AND SMALL OFFICES.
2. THE PUBLIC LOBBY WILL BE CONTROLLED BY TIME CLOCK ON/OFF WITH MANUAL OVERRIDE.
3. ANIMAL HOLDING ROOMS AND SUPPORT AREAS THAT FUNCTION 24/7 WILL ONLY HAVE LOCAL MANUAL SWITCHING.

E. LOW VOLTAGE

1. RACEWAYS ONLY WILL BE PROVIDED FOR THE TELECOMMUNICATIONS CABLING. GLUMAC WILL COORDINATE WITH A COUNTY IT REPRESENTATIVE FOR REQUIREMENTS.

F. FIRE ALARM MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM WILL NOT BE INCLUDED IN THE DESIGN, OWNER TO MAKE NECESSARY MODIFICATIONS. G. POWER DESIGN

1. EXISTING UTILITY SERVICE ENTRANCE, INCLUDING METER/MAIN WILL REMAIN IN PLACE.
2. EXISTING DISTRIBUTION EQUIPMENT WILL BE REUSED WHERE POSSIBLE. THE EXISTING PANELS LOCATED IN THE SPACE OUTSIDE OF THE ELECTRICAL ROOMS WILL NOT BE REUSED AND WILL BE REMOVED BY THE OWNER.
AN EXTERIOR MOUNTED GENERATOR TAP BOX WILL BE PROVIDED AT THE NORTH WEST SIDE OF THE BUILDING TO ALLOW THE CONNECTION OF A PORTABLE TEMPORARY GENERATOR. A MANUAL TRANSFER SWITCH (MTS) WILL SWITCH THE BUILDING LOADS FROM THE UTILITY POWER SOURCE TO THE PORTABLE GENERATOR.
3. A MAXIMUM OF (6) SIX GENERAL PURPOSE RECEPTACLES WILL BE PLACED ON A 20 AMPERE CIRCUIT.
4. A MAXIMUM OF (4) FOUR RECEPTACLES FOR COMPUTER USE WILL BE PLACED ON A 20 AMPERE CIRCUIT.



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**EL DORADO COUNTY
EDC ANIMAL SHELTER FACILITY
6435 CAPITAL AVE.
DIAMOND SPRINGS, CA**



#	REVISIONS

CONSTRUCTION DOCUMENTS SET

GLUMAC PROJECT #: 03.13.00602
CHECKED BY: RC
DRAWN BY: HF
DATE: 12/3/13

SHEET CONTENTS:
**ELECTRICAL
BASIS OF DESIGN**

E0.1



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 CHECKED BY: RC

 DRAWN BY: HF

 DATE: 12/3/13

SHEET CONTENTS:

**LUMINAIRE SCHEDULE
 AND CONTROLS**

E0.2

KEYED NOTES

- EXISTING FIXTURE REMOVED AND STORED ONSITE BY OWNER. CONTRACTOR TO CLEAN, RE-LAMP, RE-WIRE AND INSTALL LIGHT FIXTURE.
- PROVIDE NEW EM BATTERY BALLAST AND INSTALL IN EXISTING FIXTURE.

(E) 'LCP' RELAY SCHEDULE

RELAY	CIRCUIT SERVED	CONTROL	DESCRIPTION
1	HA-3	TCO, TCF	HALLWAY 120, 121
2	HA-1	TCO, TCF	HALLWAY 133, 145
3	HA-7	TCO, TCF	HALLWAY 172, 148,
4	HA-5	TCO, TCF	HALLWAY 115, PUBLIC LOBBY, DISPLAY
5	HA-11	TCO, TCF	VESTIBULE, SURRENDER
6	HA-13	PO,PF	(F)EXTERIOR LTG
7			
8			
9			
10			
11			
12			
13			
14			

TCO: TIMECLOCK ON PO: PHOTOCCELL ON
 TCF: TIMECLOCK OFF PF: PHOTOCCELL OFF
 (E) LCP LOCATED ELEC ROOM 175

NOTE: Reuse all lighting control relays where possible. Contractor to verify where relays are located and use the closest relays where possible.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	WATTS	VOLTS	LAMP	MOUNTING	REMARKS
① A1	LITHONIA	OWNER PROVIDED LIGHT FIXTURE	FLUOR 2X4 RECESSED, LENSED TANDEM WIRED	186	277	(6) 32W T8 4100K	RECESSED GRID	
① A1.1	LITHONIA	OWNER PROVIDED LIGHT FIXTURE RETROFITTED TO 2 LAMPS INSTEAD OF 3 LAMPS	FLUOR 2X4 RECESSED, LENSED TANDEM WIRED	124	277	(4) 32W T8 4100K	RECESSED GRID	FIXTURE RETROFITTED FROM 3 TO 2 LAMP. REMOVE 1 LAMP, 1 2LAMP BALLAST, AND TOMBSTONES
① ② A1EM	LITHONIA	OWNER PROVIDED LIGHT FIXTURE	FLUOR 2X4 RECESSED, LENSED, EM BALLAST	93	277	(3) 32W T8 4100K	RECESSED GRID	
① ② A1.1EM	LITHONIA	OWNER PROVIDED LIGHT FIXTURE RETROFITTED TO 2 LAMPS INSTEAD OF 3 LAMPS	FLUOR 2X4 RECESSED, LENSED, EM BALLAST	62	277	(2) 32W T8 4100K	RECESSED GRID	FIXTURE RETROFITTED FROM 3 TO 2 LAMP. REMOVE 1 LAMP, 1 2LAMP BALLAST, AND TOMBSTONES
A2	LITHONIA	2WRT-G-3-32-A-12125-MVOLT-1/3-GEB10RS	FLUOR 2X4 RECESSED, LENSED, WET LOCATION	89	277	(3) 32W T8 4100K	RECESSED GRID	
A2EM	LITHONIA	2WRT-G-3-32-A-12125-MVOLT-1/3-GEB10RS	FLUOR 2X4 RECESSED, LENSED, WET LOCATION, EM BALLAST	89	277	(3) 32W T8 4100K	RECESSED GRID	
A3	LITHONIA	#RTBS-2-32-MVOLT-GEB10IS-L835HT8	FLUOR 2X4 RECESSED, INDIRECT/DIRECT	62	277	(3) 32W T8 4100K	RECESSED GRID	
① A4	LITHONIA	OWNER PROVIDED LIGHT FIXTURE	FLUOR 2X4 RECESSED, LENSED TANDEM WIRED	62	277	(2) 32W T8 4100K	RECESSED GRID	FIXTURE RETROFITTED FROM 3 TO 2 LAMP. REMOVE 1 LAMP AND TOMBSTONES
B1	LITHONIA	#2SP8-G-2-17-A12-277	FLUOR 2X2 RECESSED, LENSED	33	277	(2) 17W T8 4100K	RECESSED GRID	
C1	LITHONIA	DOM6-900L-	6" DIA RECESSED LED DOWNLIGHT	15	277	LED	RECESSED	
C2	LITHONIA	L7X26T-277-7LD1	6" DIA RECESSED DOWNLIGHT	32	277	26W TRT	RECESSED	
F1	PEERLESS	IAMB-3-32-12'-R12--277-GEB10-DCT-LP841-F1A/18"C100	8' LINEAR FLUOR. INDIRECT/DIRECT	267	277	(9) 32W T8 4100K	SUSPENDED	
G1	PRUDENTIAL	#WAL14-WFA-2T8-04'-TMW-SC-277-WM PROGRAM START BALLAST	4' LINEAR FLUOR VANITY	62	277	(2) 32W T8 4100K	SURFACE WALL	
H1	DELRAY	SONAR #7702L50-W35-2	14" DIA. PENDENT	50	277	50W LED	SUSPENDED	
H2	DELRAY	#4740.0.2 1-32	DECORATIVE GLASS CYLINDER PENDENT	36	277	32W TT CFL	SUSPENDED	
J1	PEERLESS	#TLMA-1-32-SSB-8"-R8-277-GEB10-SCT-LP841-F2/24-C100-ACG	8' LINEAR FLUOR SUSPENDED WALL WASH	30	277	32W T8 4100K	SUSPENDED	
K1	LITHONIA	L-2-32-MVOLT-GEB10IS	4' STRIP FIXTURE	62	277	(2) 32W T8 4100K	CHAIN/SURFACE	
X1	LITHONIA	#LQM-S-W-3-G-120/277-EL N-SD	LED EXIT SIGN	5	277	LED	UNIVERSAL	PROVIDE STEM KIT AS REQUIRED

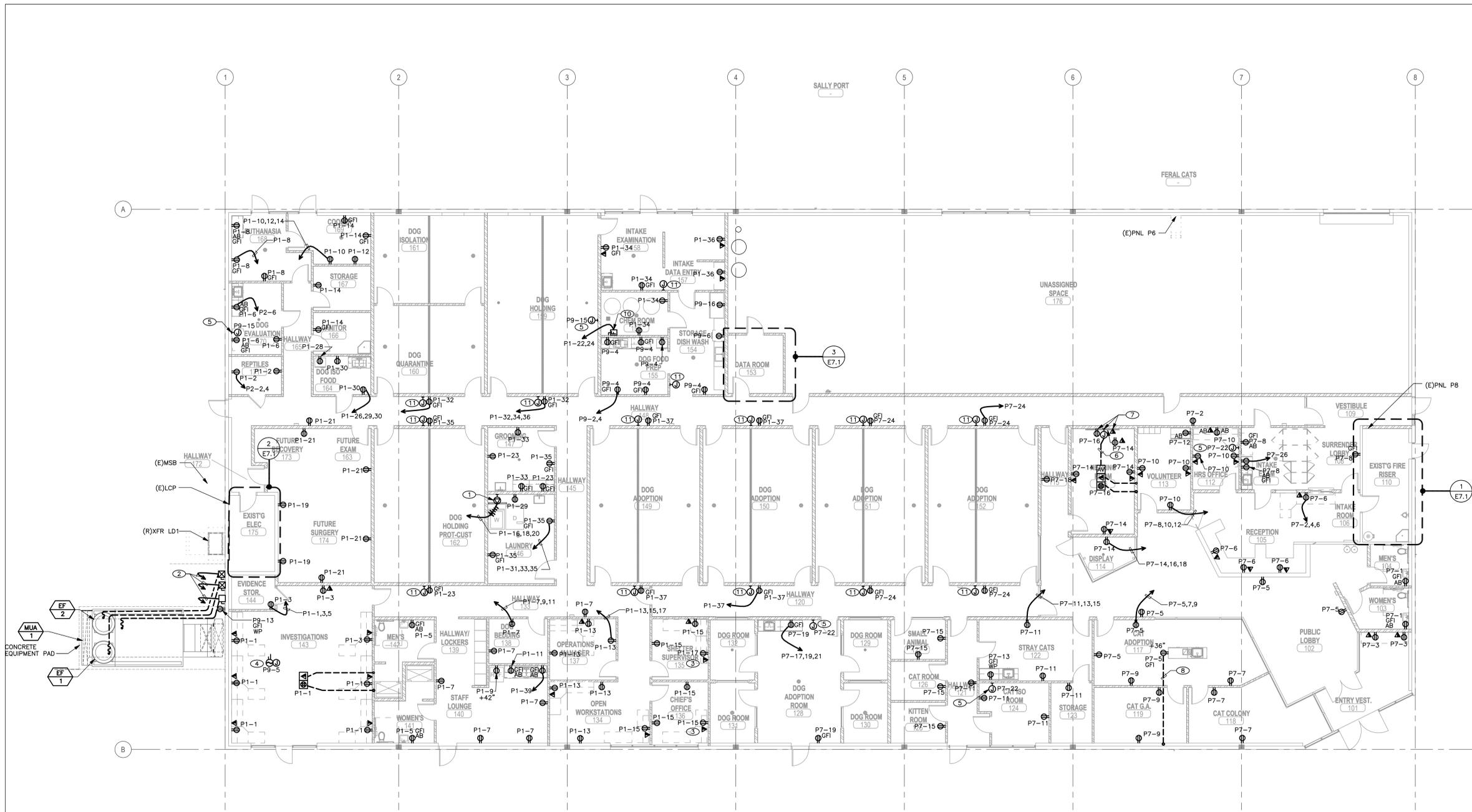


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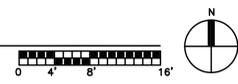
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 www.glumac.com Job No. 03.13.00602

**EL DORADO COUNTY
 EDC ANIMAL SHELTER FACILITY**
 6435 CAPITAL AVE.
 DIAMOND SPRINGS, CA



1 ELECTRICAL POWER PLAN
 SCALE: 1/8"=1'-0"



KEYED NOTES

- VERIFY RECEPTACLE CONFIGURATION AND CIRCUIT BREAKER SIZE WITH WASHER MACHINE NAME PLATE DATA.
- SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FEEDERS SIZE AND ADDITIONAL INFORMATION.
- EXHAUST FAN CONTROLLED BY OCCUPANCY SENSOR.
- PROVIDE J-BOX AND 120V CIRCUIT FOR DUCT SMOKE DETECTOR FOR MAU-1 SHUT DOWN. COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND REQUIREMENTS. FIRE ALARM IS DEFERRED APPROVAL.
- PROVIDE 120V POWER FOR ELECTRICAL TRAP PRIMER BOX.
- PROVIDE A 1-1/4" CONDUIT ONLY FOR AV CABLING.
- COORDINATE HEIGHT OF RECEPTACLE, DATA OUTLET AND AV JUNCTION BOX WITH A/V INSTALLER.
- ROUTE CONDUIT IN TRENCH WITH PLUMBING. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
- PROVIDE POWER TO POWER WASHER MOTOR. COORDINATE LOCATION WITH INSTALLER.
- PROVIDE BACK BOX WITH 2" CO STUB TO ACCESSIBLE CEILING SPACE FOR POWER WASHER CONTROLS. VERIFY EXACT LOCATION WITH WASHER INSTALLER.

SHEET NOTES

- COORDINATE WITH OWNER/ARCHITECT PRIOR TO PERFORMED WORK.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL TELE/DATA OUTLET LOCATION AND REQUIREMENTS AS REQUIRED PRIOR TO ROUGH-IN.

CONSTRUCTION DOCUMENTS SET



REVISIONS

GLUMAC PROJECT #: 03.13.00602
 CHECKED BY: RC
 DRAWN BY: HF
 DATE: 12/3/13

SHEET CONTENTS:
ELECTRICAL POWER PLAN

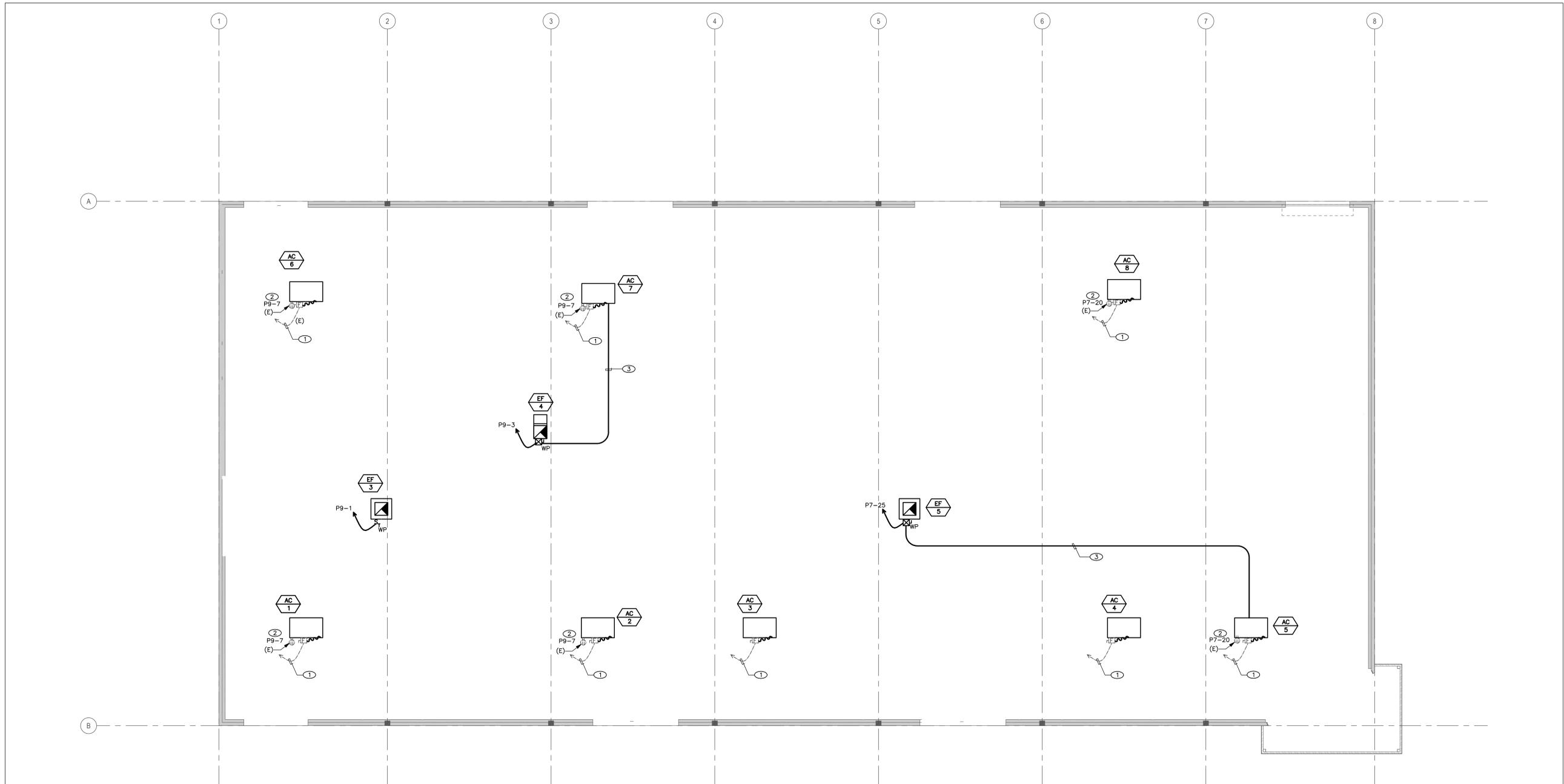


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EL DORADO COUNTY ANIMAL SHELTER
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1 ROOF ELECTRICAL PLAN
 SCALE: 1/8"=1'-0"

KEYED NOTES

1. REUSE EXISTING CONDUIT FROM DEMOLISHED AC UNIT. REMOUNT EXISTING FUSED DISCONNECT AND PROVIDE NEW FLEXIBLE CONDUIT/CONDUCTORS AS REQUIRED. REFER TO SINGLE LINE DIAGRAM ON SHEET E5.1 FOR ADDITIONAL INFORMATION.
2. EXISTING RECEPTACLES ON ROOF SHALL BE CONNECTED TO NEW CIRCUIT AS SHOWN.
3. PROVIDE CONDUIT AND CONDUCTORS FOR INTERLOCK OF EXHAUST FAN WITH AC UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIREMENTS.



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SHEET CONTENTS:
ROOF ELECTRICAL PLAN

E3.2



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SHEET CONTENTS:

ENLARGED PLANS

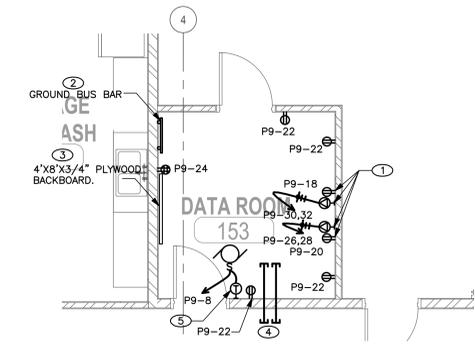
E7.1

SHEET NOTES

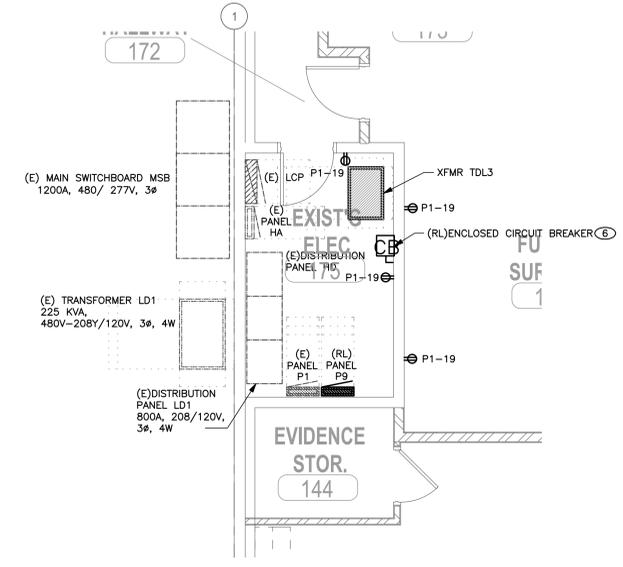
- A. COORDINATE WITH OWNER/ARCHITECT PRIOR TO PERFORMED WORK.
- B. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL TELE/DATA OUTLET LOCATION AND REQUIREMENTS AS REQUIRED PRIOR TO ROUGH-IN.

KEYED NOTES

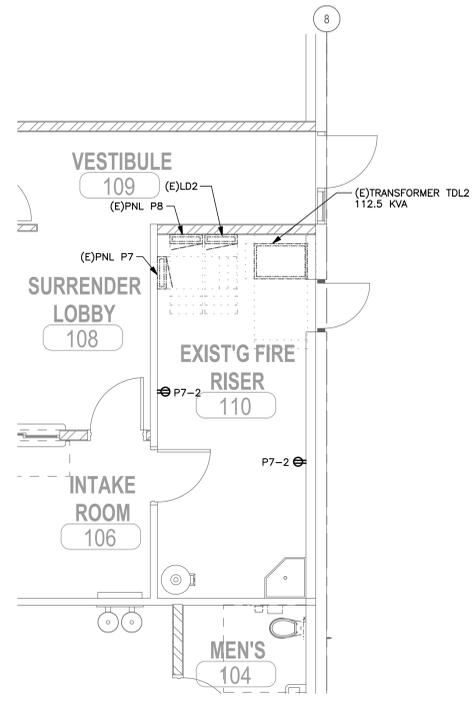
- 1. COORDINATE LOCATION OF RECEPTACLES AND CONFIGURATION IN DATA ROOM WITH COUNTY IT REPRESENTATIVE PRIOR TO ROUGH-IN.
- 2. 24" TMGB SECURED TO WALL AT +60" AFF. PROVIDE #3/0 COPPER INSULATED CONDUCTOR AND CONNECT TO EXISTING GROUND TERMINAL LOCATED IN ELECTRICAL ROOM 175.
- 3. 3/4" FIRE RETARDANT PLYWOOD BACKBOARD MOUNTED AT +6" AFF TO +8"-6" AFF.
- 4. 2-4" CONDUITS/SLEEVES TO ACCESSIBLE CEILING SPACE.
- 5. LINE VOLTAGE THERMOSTAT SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL.
- 6. REPOSITION EXISTING ENCLOSED CIRCUIT BREAKER AND GUTTER TO ACCOMMODATE INSTALLATION OF NEW TRANSFORMER. EXISTING ENCLOSED CIRCUIT BREAKER TO SERVE NEW TRANSFORMER, REFER TO SINGLE LINE ES.1.



3 ENLARGED DATA ROOM
 SCALE: 1/4"=1'-0"



2 ELECTRICAL UNIT PLAN - TYPICAL
 SCALE: 1/4"=1'-0"



1 ELECTRICAL UNIT PLAN - TYPICAL
 SCALE: 1/4"=1'-0"



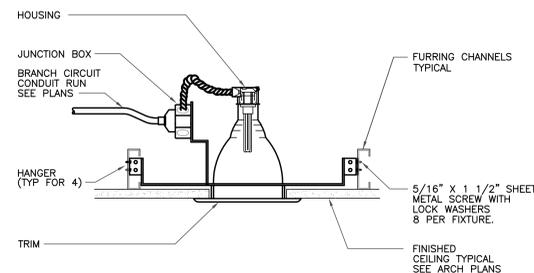
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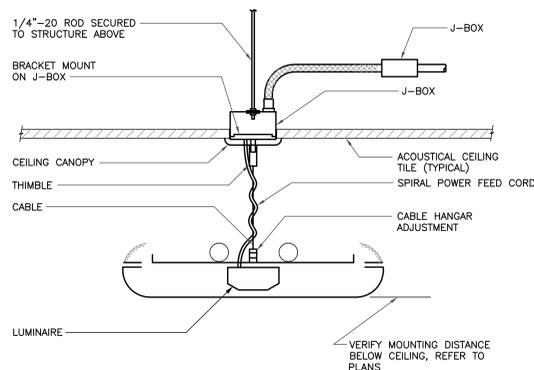
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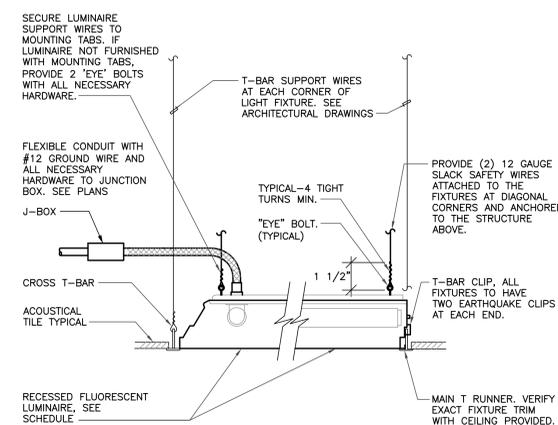
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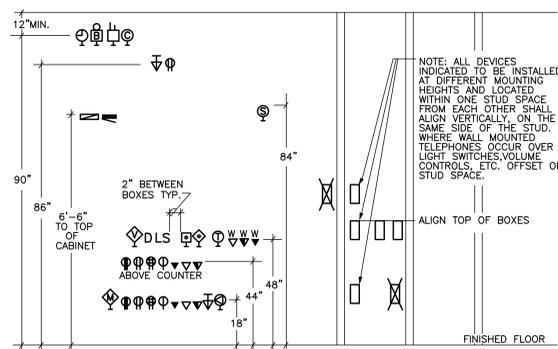
3 RECESSED FLUORESCENT DOWNLIGHT GYP CEILING, METAL JOIST MOUNTING
 SCALE: NONE



5 INDIRECT FLUORESCENT LUMINAIRE SUSPENDED CEILING MOUNTING
 SCALE: NONE

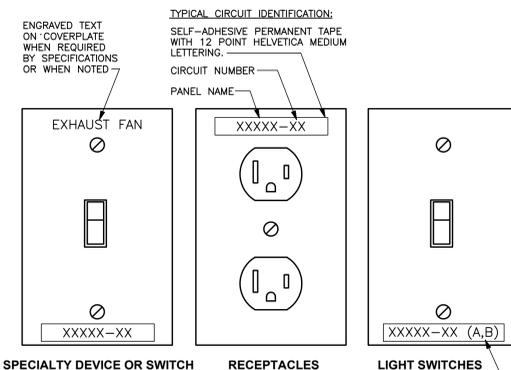


2 RECESSED FLUORESCENT TROFFER LAY-IN CEILING MOUNTING
 SCALE: NONE



- NOTES**
- HEIGHTS SHOWN ARE TYPICAL TO TOP OF BOX, UNLESS OTHERWISE NOTED.
 - WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED VERTICALLY BETWEEN TOP OF DOOR TRIM AND CEILING LINE AND CENTERED HORIZONTALLY ON DOOR OPENING, UNLESS OTHERWISE NOTED.
 - MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE. CONTRACTOR SHALL ALWAYS REFER TO ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING J-BOXES AND BACKBOXES. INFORM ENGINEER AND ARCHITECT OF CONFLICTS.
 - DO NOT MOUNT THERMOSTATS OR TEMPERATURE SENSORS ABOVE DIMMERS. INFORM ENGINEER OF CONFLICTS.

4 ELECTRICAL, TELECOM & SIGNAL SYS. DEVICE MOUNTING HEIGHTS & ALIGN.
 SCALE: NONE



- NOTES**
- TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED AS MATCH INSTALLATION.
 - LABEL DEVICES IN SURFACE METAL RACEWAYS, POWER POLES, FLOOR BOXES, CONCEALED MULTI-SERVICE POWER BOXES, ETC. SIMILARLY.
 - WHERE MULTIPLE SWITCHES ARE GROUPED UNDER COMMON COVERPLATE AND ARE SERVED FROM SAME CIRCUIT, PROVIDE ONLY ONE LABEL FOR MIDDLE SWITCH. PROVIDE MULTIPLE LABELS IF DIFFERENT CIRCUITS ARE USED.

1 DEVICE & SWITCH LABELING
 SCALE: NONE

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SHEET CONTENTS:
ELECTRICAL DETAILS