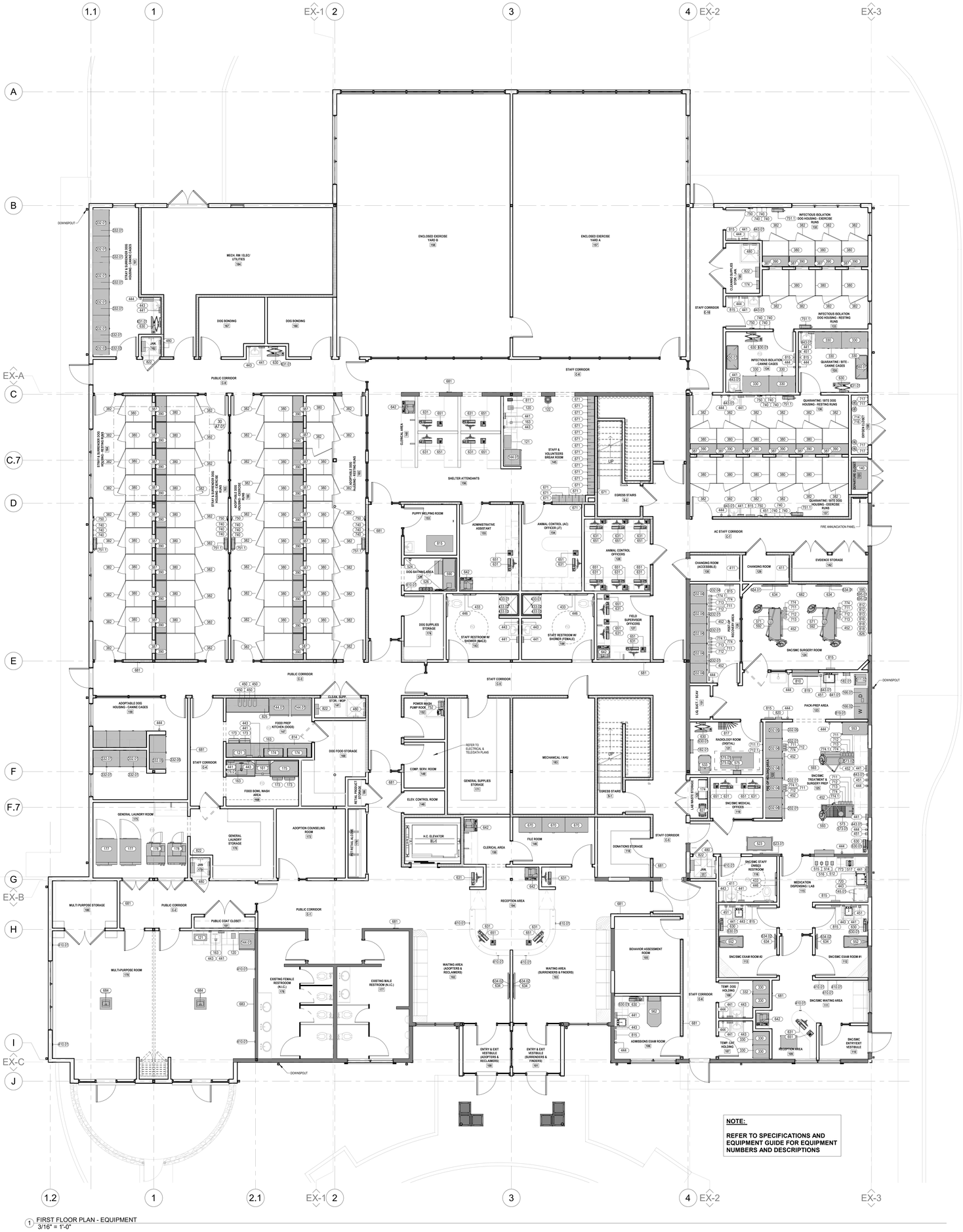
1.1
1
EX-1
2
3
4
EX-2
EX-3
A
B
C
C.7
D
E
F
F.7
G
H
I
J
EX-A
EX-B
EX-C
1.2
2.1
DOWNSPOUT
ENCLOSED EXERCISE YARD B 198
ENCLOSED EXERCISE YARD A 197
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DOG BONDING 186
JAN 182
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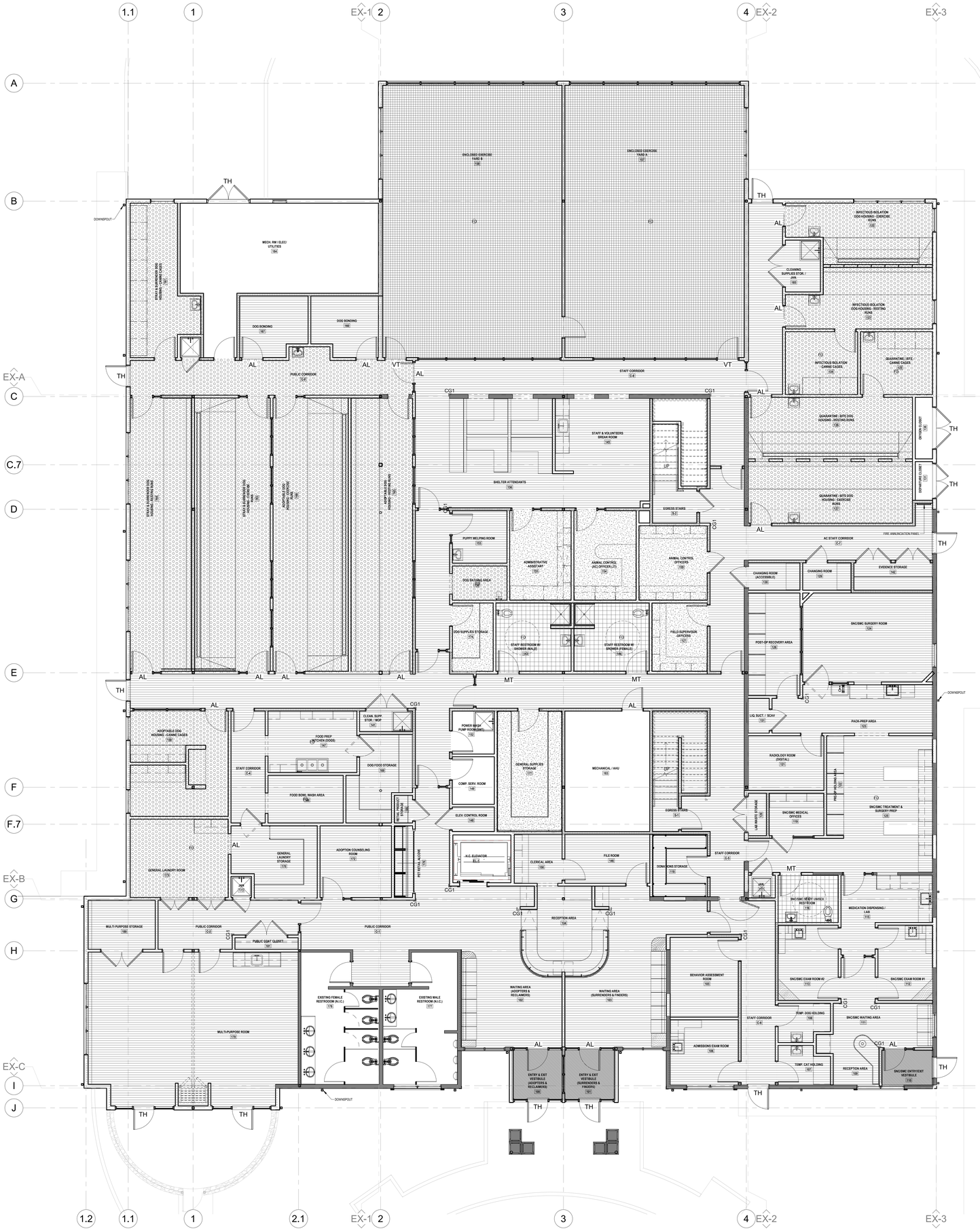
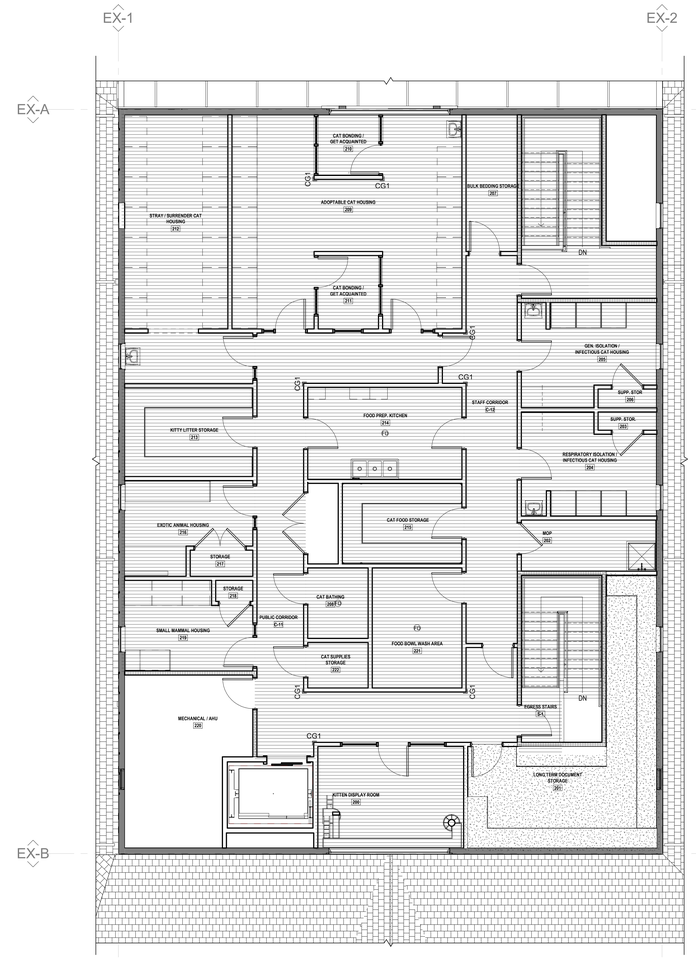
STAFF CORRIDOR C-6
STAFF CORRIDOR C-5
STAFF CORRIDOR C-4
PUBLIC CORRIDOR C-3
PUBLIC CORRIDOR C-2
STAFF CORRIDOR C-1
STAFF CORRIDOR C-7
STAFF CORRIDOR C-8
STAFF CORRIDOR C-9
STAFF CORRIDOR C-10
STAFF CORRIDOR C-11
STAFF CORRIDOR C-12
STAFF CORRIDOR C-13
STAFF CORRIDOR C-14
STAFF CORRIDOR C-15
STAFF CORRIDOR C-16
STAFF CORRIDOR C-17
STAFF CORRIDOR C-18
STAFF CORRIDOR C-19
STAFF CORRIDOR



1 FIRST FLOOR PLAN - FINISHES
3/16" = 1'-0"



2 SECOND FLOOR PLAN - FINISHES
3/16" = 1'-0"

FINISH LEGEND

- CONCRETE (SEALED)
- EFM-1 (ENTRANCE MAT)
- PT-1 (PORCELAIN TILE)
- KG-1 (K9 GRASS)
- RS-1 (RESINOUS EPOXY)
- SV-1 (SHEET VINYL)
- VCT-1 (VINYL COMPOSITION TILE)

- MT — MARBLE THRESHOLD (TOILET ROOM)
- TH — ALUMINUM THRESHOLD (OUTSIDE TRANSITION)
- AL — ALUMINUM EDGE
- VT — VINYL THRESHOLD
- ⌐C.G. — CORNER GUARD

N PROJECT NORTH
TRUE NORTH

NO.	DESCRIPTION	DATE

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

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PROJECT NO: 1723

CONSTRUCTION SET ☐
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FLOOR PLANS - FINISHES

A1.05

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REFLECTED CEILING PLAN LEGEND

- ACT 1 (2 x 2)
- ACT 2 - WET AREAS 2X2
- WOOD CEILING
- FLAT G.W.B.
- SLOPED G.W.B.
- G.W.B. CEILING ADDITION
- C1 — 2X2 LED LIGHT FIXTURE
- C2 — 2X4 LED LIGHT FIXTURE
- C3 — 1X4 LED LIGHT FIXTURE
- A1 — RECESSED LED
- B1 — 48" LED LINEAR PENDANT LIGHT - MTD HT. VARIES SEE INTERIOR ELEVATIONS
- B2 — 48" SUSPENDED STRIP LIGHT
- F1 — 4" LINEAR SURFACE OR WALL MTD FIXTURE - SEE RCP
- D1 — EXTERIOR UP/DOWN LED SCONCE LIGHT FIXTURE
- U — UNDER CABINET LIGHT
- OPERATING LIGHT FIXTURE - DOUBLE
- OPERATING LIGHT FIXTURE - SINGLE
- CEILING MOUNTED EQUIPMENT (SEE EQUIPMENT PLAN / SCHEDULE)
- IV TRACK
- T1 — SPOT TRACK LIGHT
- E — ILLUMINATED EXIT SIGN DIRECTION ARROW WHERE REQ'D
- EXD — EXISTING LIGHT TO BE DEMOLISHED; INFILL CEILING
- ETR — EXISTING LIGHT LOCATION TO BE REPLACED W/ NEW LED; LAMP ONLY

ACT-2 FOR WET AREA - SEE

REPLACE CEILING TILES ONLY. AREA N.I.C.

NOTE: LOCATIONS OF EXISTING LIGHT FIXTURES ARE APPROXIMATE; G.C. TO VERIFY IN FIELD

1 FIRST FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"

NOTE: PROVIDE ALLOWANCE TO RELAMP ALL EXISTING LIGHT FIXTURES WITH LED LAMP

PORTION OF EXISTING CEILING TO BE REMOVED TO ACCOMMODATE NEW ELEVATOR & MECHANICAL ROOM

5 SECOND FLOOR - RCP - DEMOLITION
3/16" = 1'-0"

NO CEILING. RATE WALLS AT 1 HR TO UNDERSIDE OF DECK

G.W.B SOFFIT OVER ELEVATOR

2 SECOND FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"

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PROJECT NO.	1723		

FLOOR PLANS - REFLECTED CEILING

A1.06

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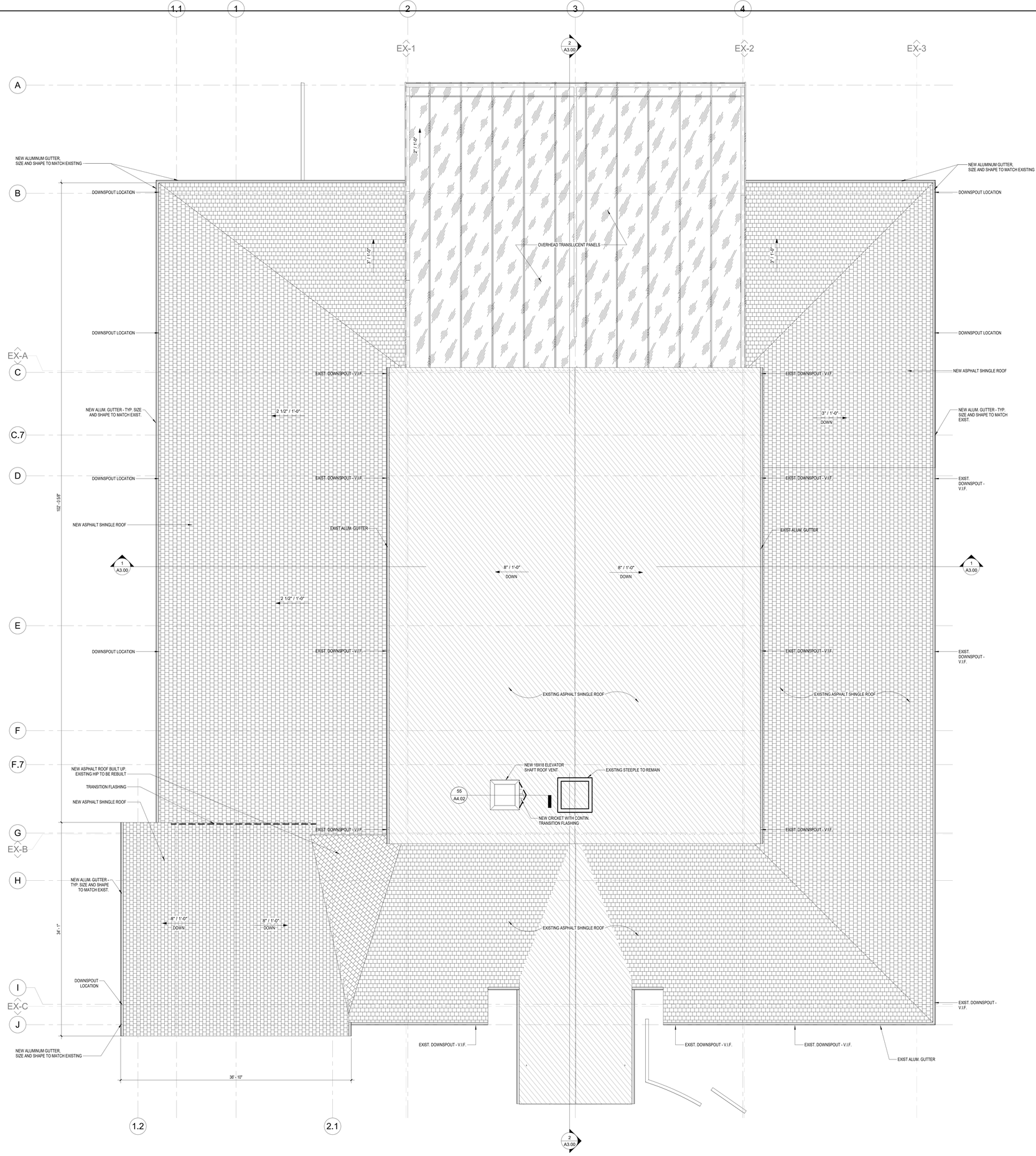

1 ROOF PLAN
3/16" = 1'-0"

NOTE:
WHERE NEW ASPHALT SHINGLE ROOFING INTERSECTS IN SAME PLANE AS EXISTING ASPHALT SHINGLE ROOFING - PROVIDE MIN 24" OVERLAP OF ROOFING FELT / UNDERLAYMENT AND 36" OVERLAP FOR SHINGLES

ROOF LEGEND

- EXISTING ASPHALT SHINGLE ROOF
- NEW ROOF - ASPHALT (SLOPED)
- NEW ROOF - EPDM (FLAT)
- NEW ROOF - INSULATED TRANSLUCENT PANEL (SLOPED)
- ICE & WATER DAM FLASHING

PROJECT NORTH
TRUE NORTH

NO.	DESCRIPTION	DATE
	REVISION	

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ROOF PLAN

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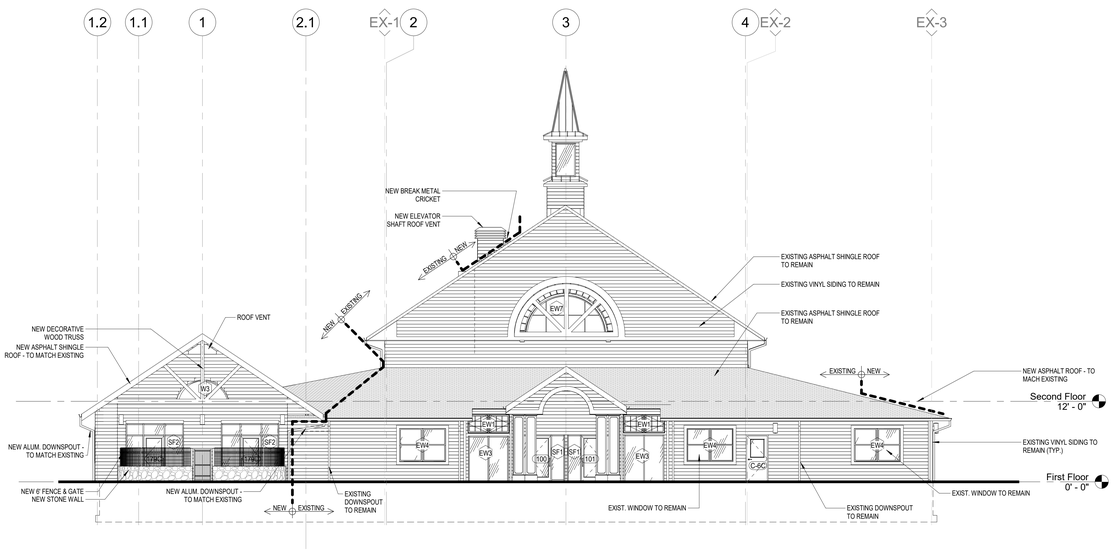
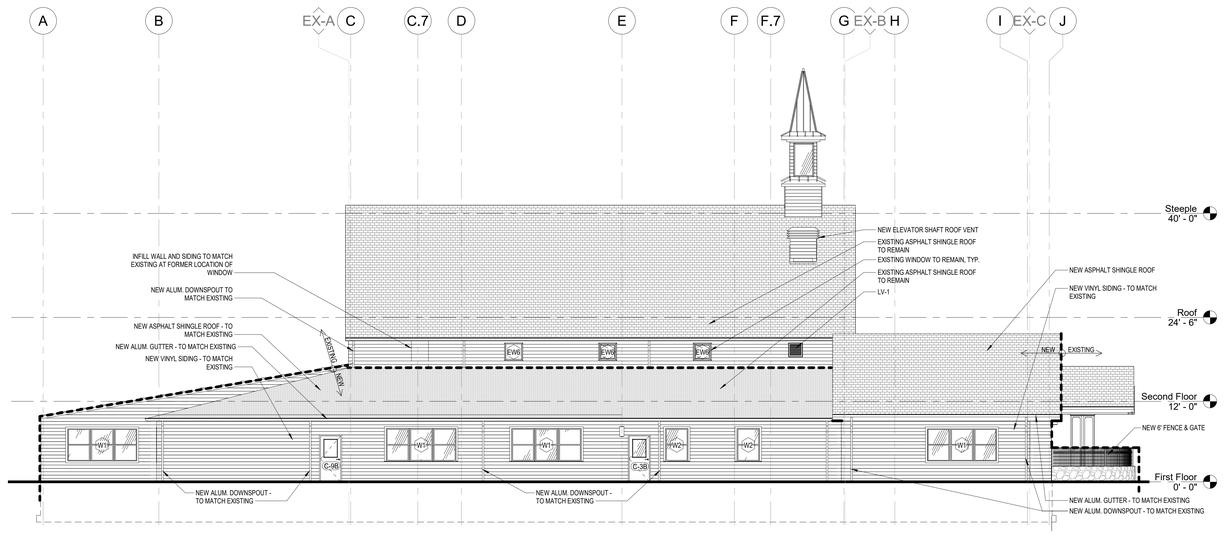
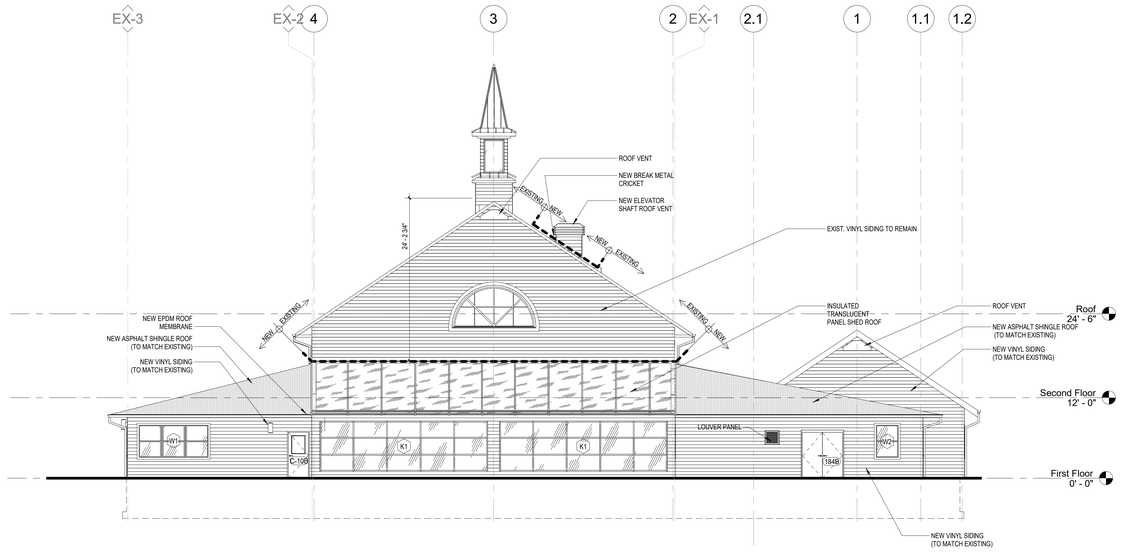
A1.07



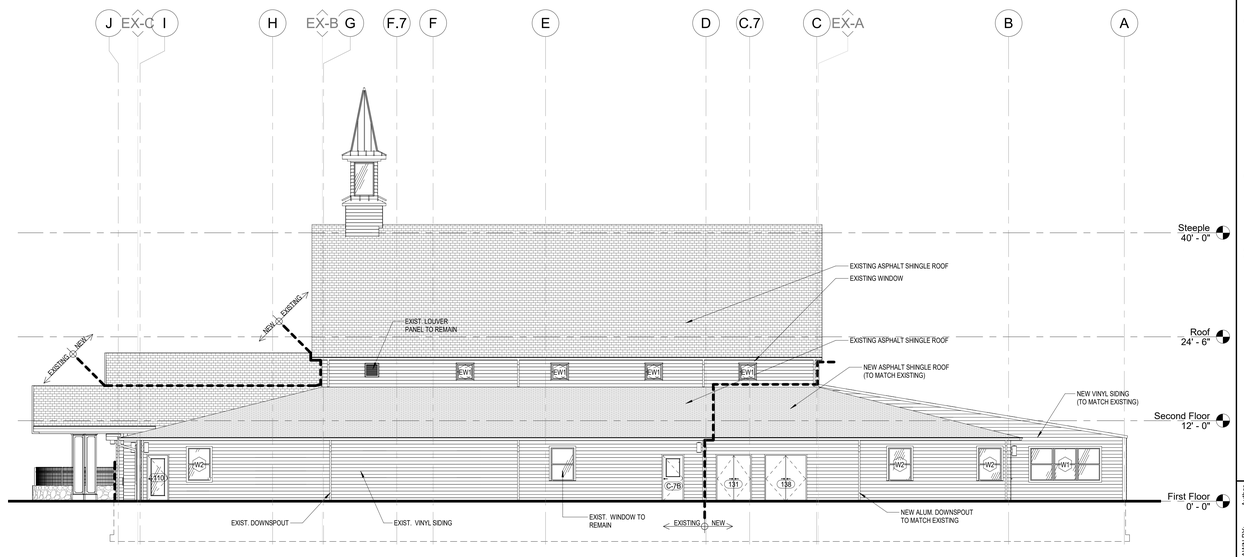
1 SOUTH (FRONT ENTRANCE) ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



3 NORTH (BACK) ELEVATION
1/8" = 1'-0"



4 EAST ELEVATION
1/8" = 1'-0"

BID OPTION: REPLACE ALL EXISTING SIDING AND PROVIDE NEW

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY: Author
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PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

BUILDING ELEVATIONS

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A2.00

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PROGRESS SET ☐	BID SET ■	PERMIT SET ☐	CONSTRUCTION SET ☐	DRAWN BY: Author	PROJECT NO: 1723	A2.01
AXONOMETRICS				CHECKED BY: Checker	DATE: 15 MAR 19	
					SCALE:	

Jefferson County Animal Care Facility

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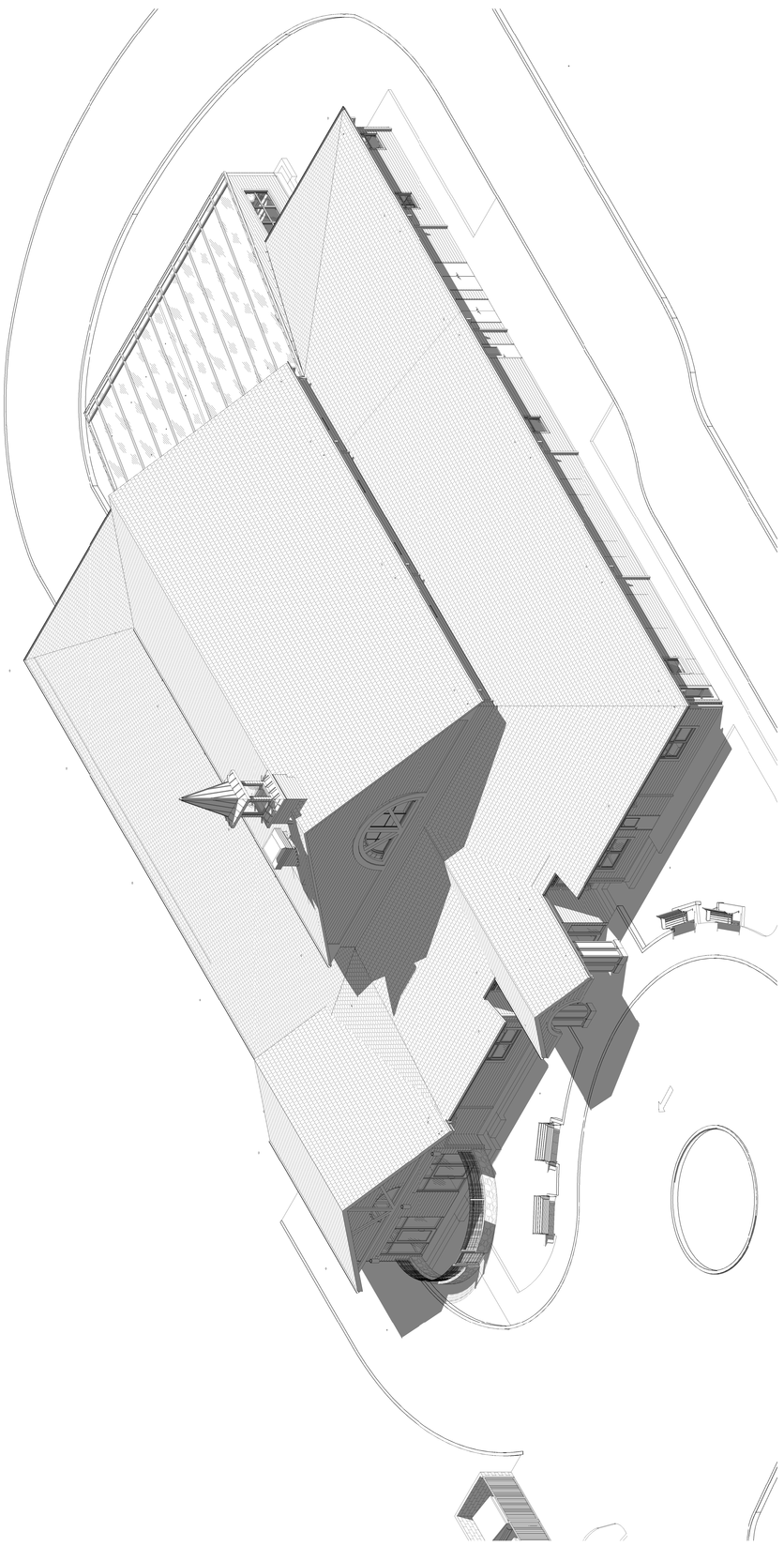
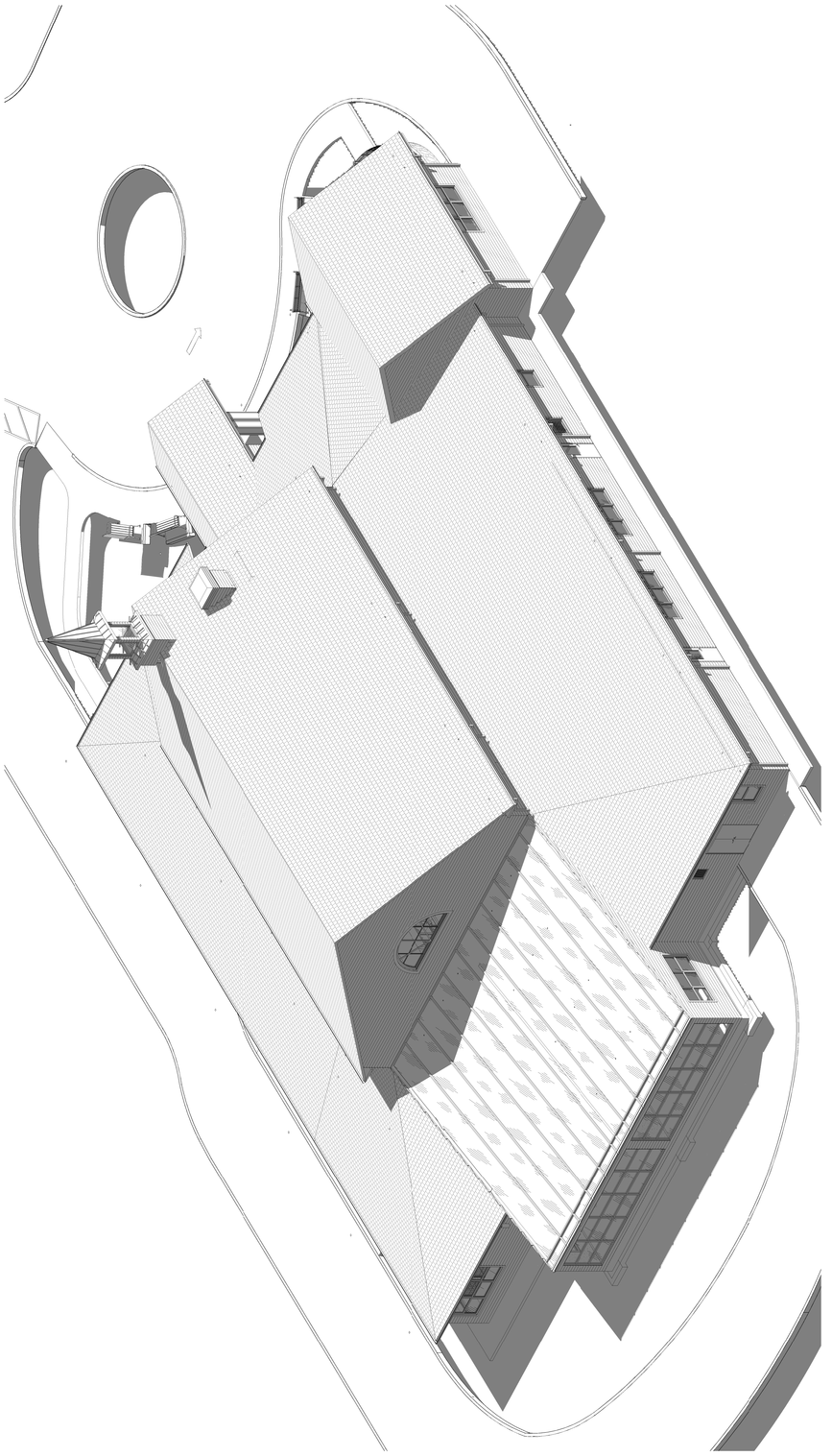
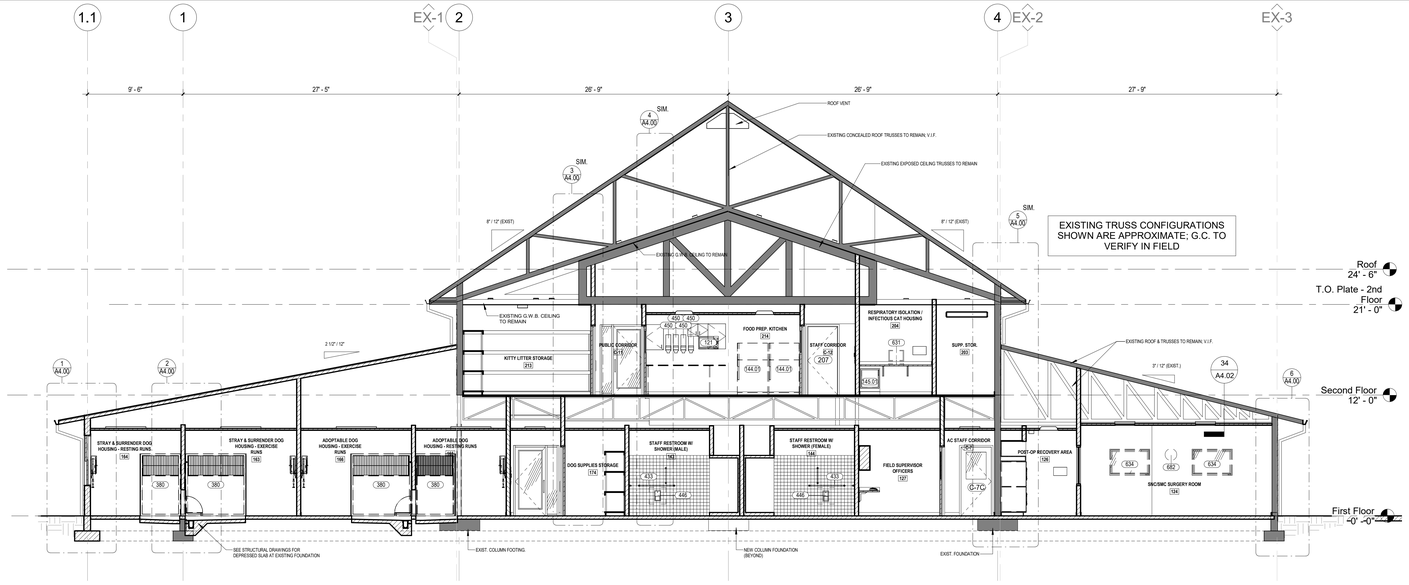


1 AXONOMETRIC - NORTH & WEST



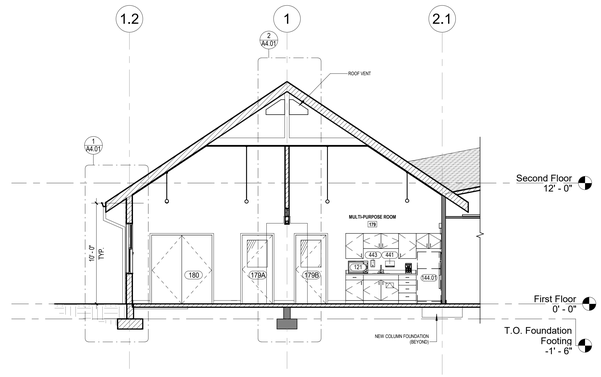
2 AXONOMETRIC - SOUTH & EAST



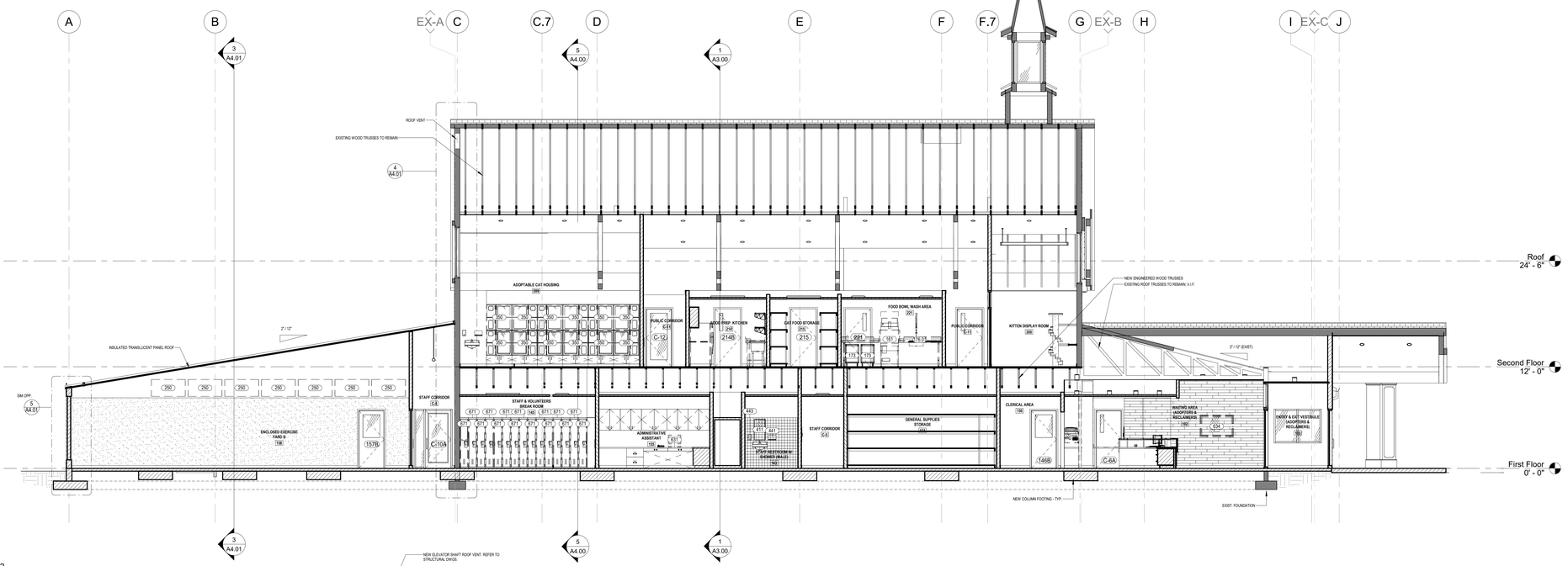
1 BUILDING SECTION 1
3/16" = 1'-0"

SECTION KEY

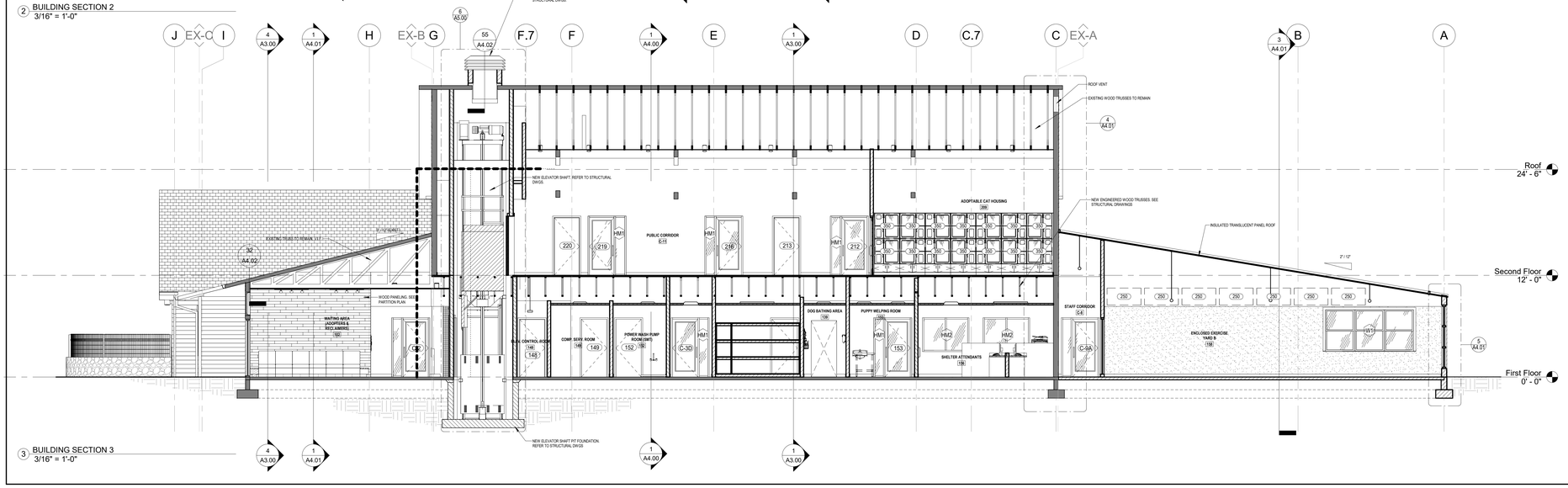
- EXISTING ELEMENTS TO REMAIN (CUT)
- NEW ELEMENTS (CUT)



4 BUILDING SECTION 4
3/16" = 1'-0"



2 BUILDING SECTION 2
3/16" = 1'-0"



3 BUILDING SECTION 3
3/16" = 1'-0"

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

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BID SET ■
PROGRESS SET ☐

BUILDING SECTIONS

A3.00

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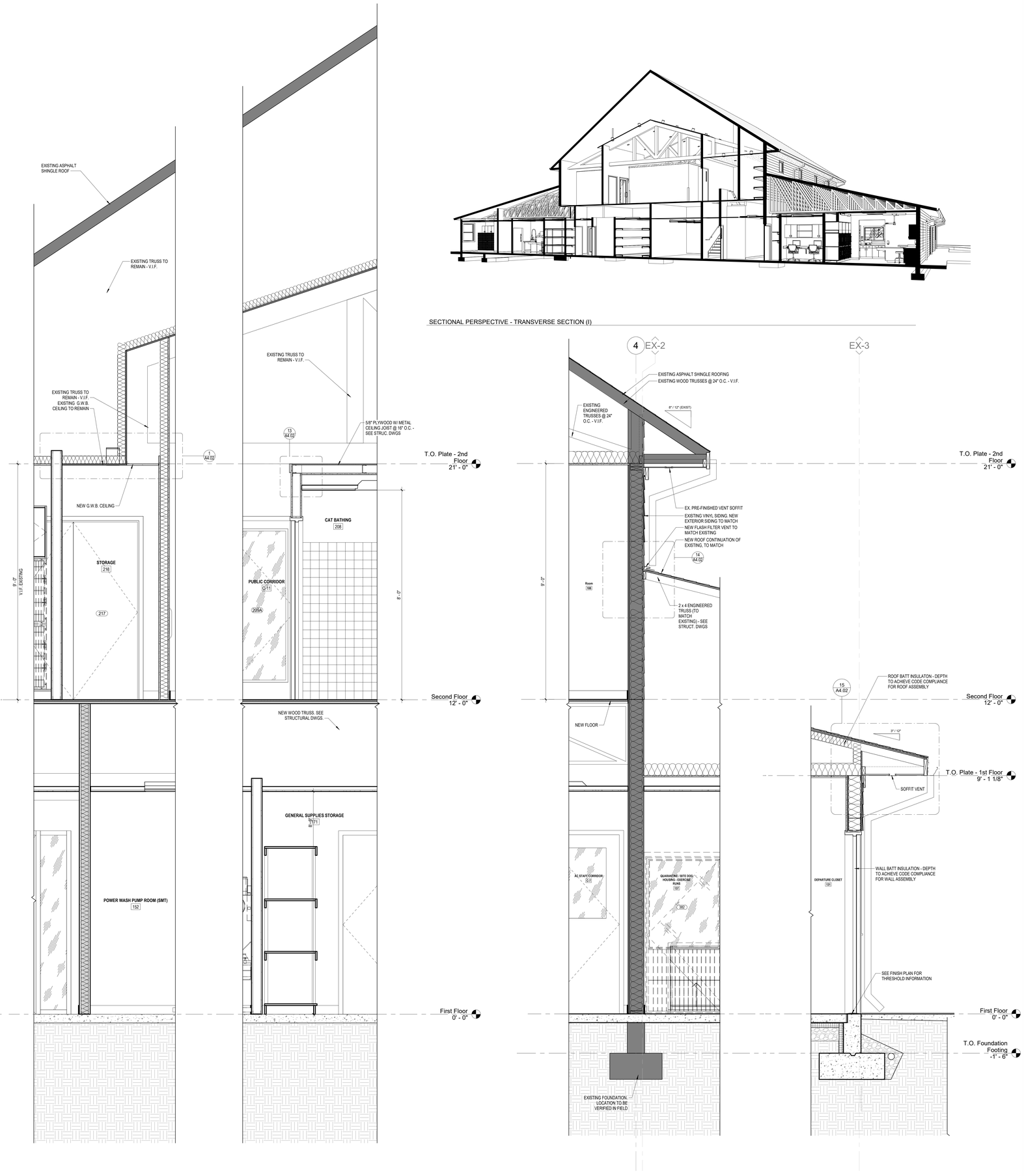
GENERAL NOTE:

EXISTING FOUNDATION LOCATIONS TO BE VERIFIED IN FIELD. EXISTING LOCATIONS TO BE COORDINATED WITH NEW DEPRESSED SLABS AND DRAINS.

SECTIONAL PERSPECTIVE - TRANSVERSE SECTION (I)



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

2 Wall Section 2
3/4" = 1'-0"

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

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

5 Wall Section 5
3/4" = 1'-0"

6 Wall Section 6
3/4" = 1'-0"

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BID SET ■
PROGRESS SET ☐

WALL SECTIONS

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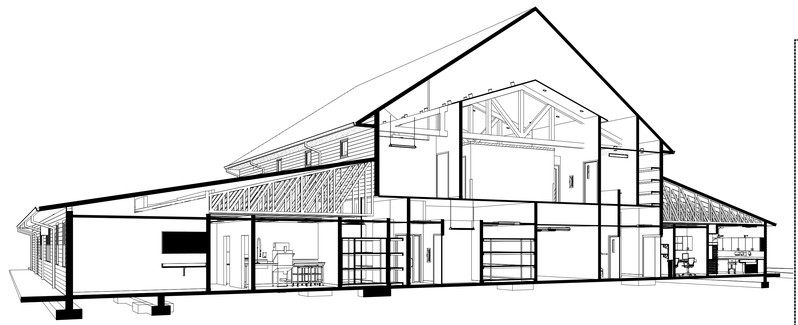
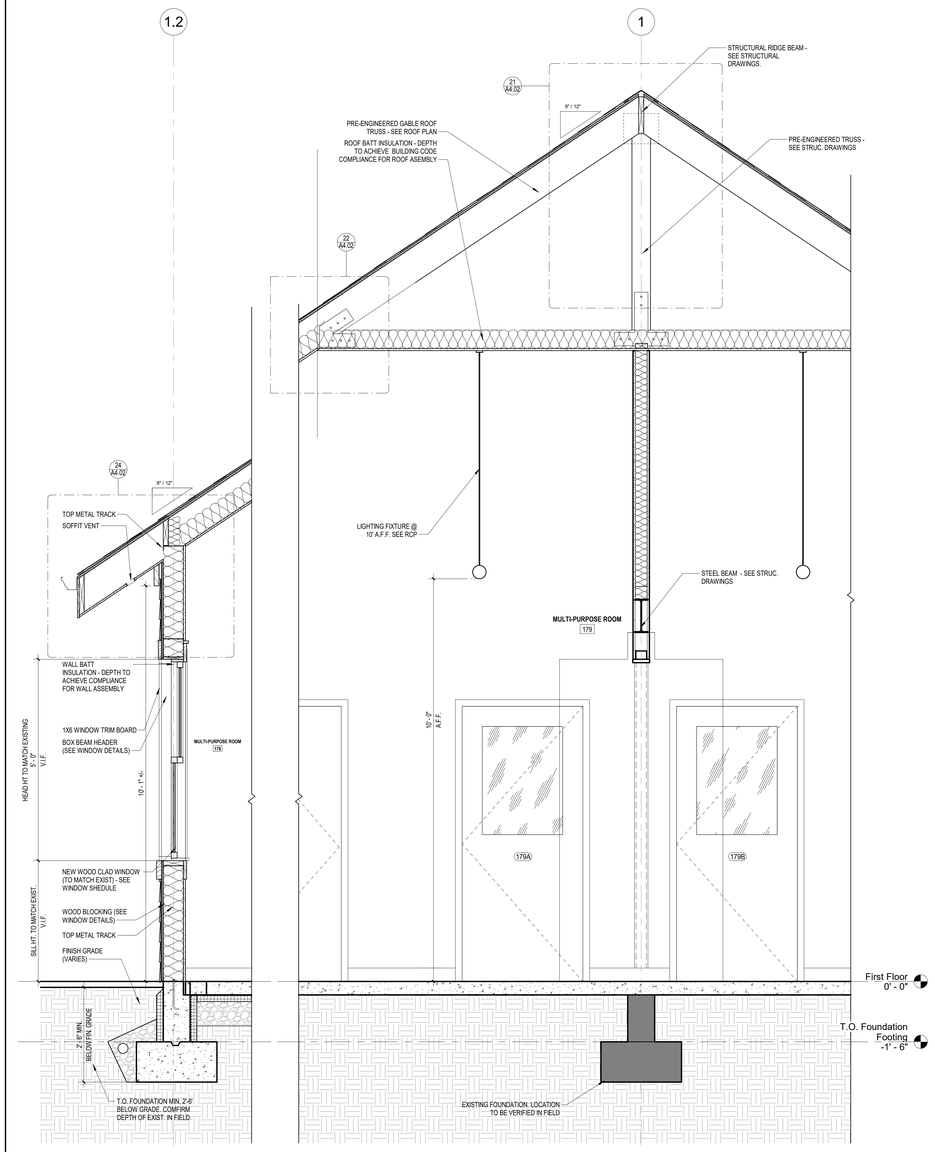
A4.00

SECTIONAL PERSPECTIVE - LONGITUDINAL SECTION (II)

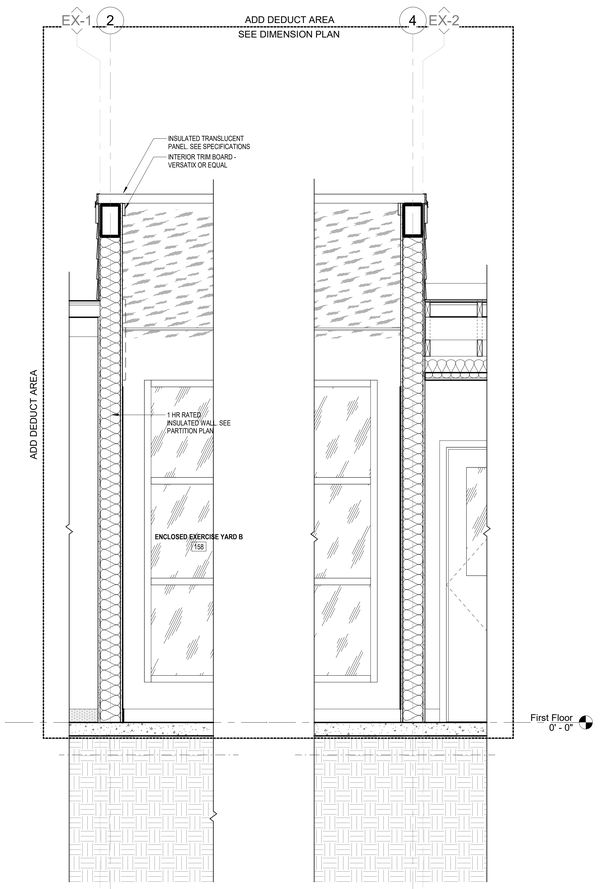


SECTIONAL PERSPECTIVE - TRANSVERSE SECTION (II)

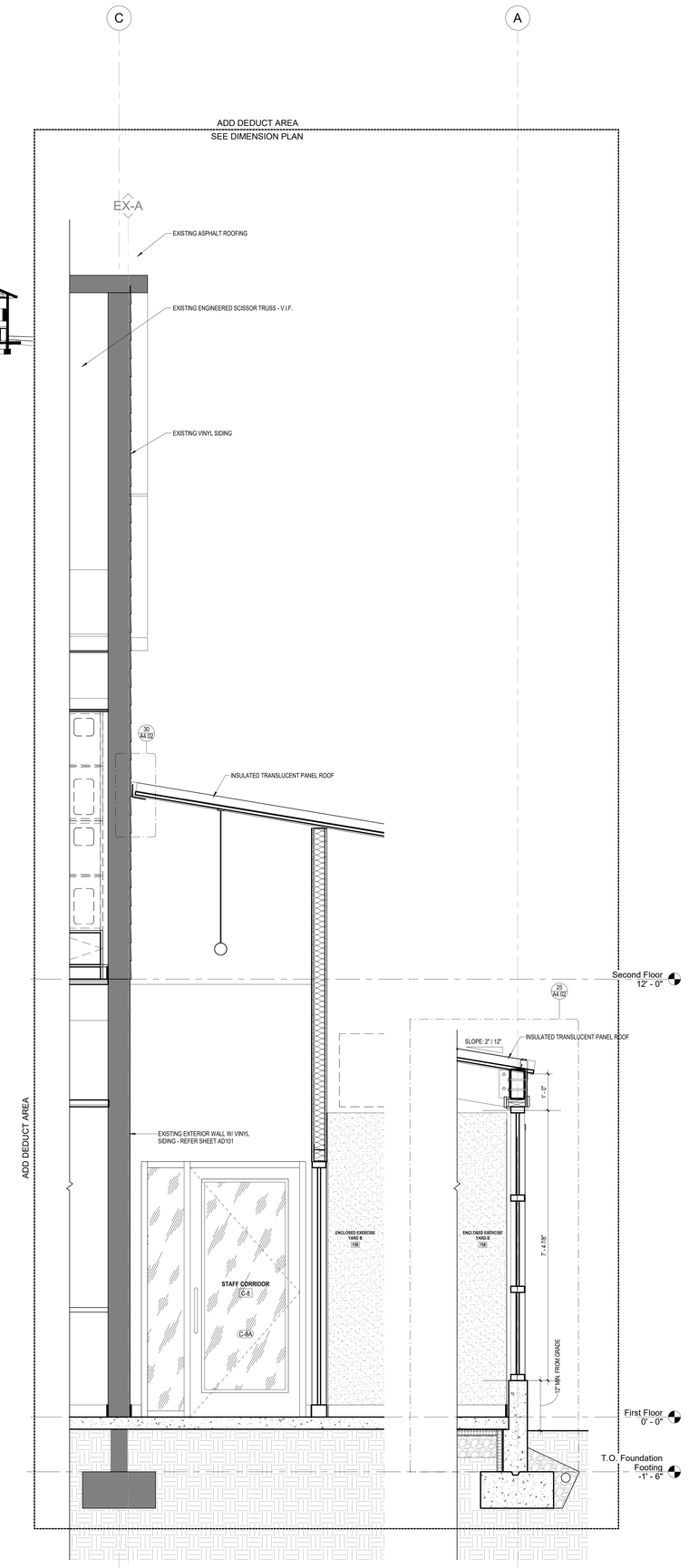


1 Wall Section 7
3/4" = 1'-0"

2 Wall Section 8
3/4" = 1'-0"



3 Wall Section 9
3/4" = 1'-0"



4 Wall Section 10
3/4" = 1'-0"

5 Wall Section 11
3/4" = 1'-0"

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WALL SECTIONS

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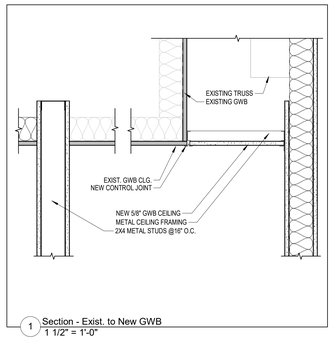
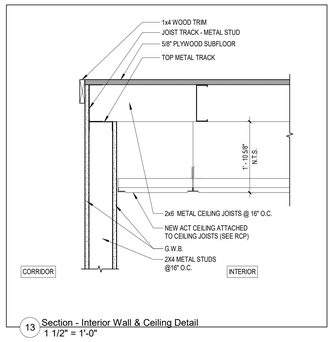
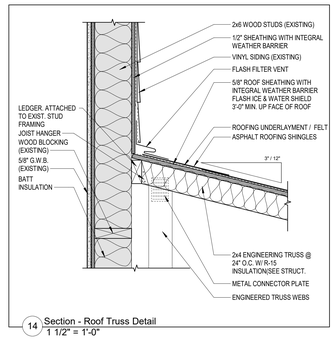


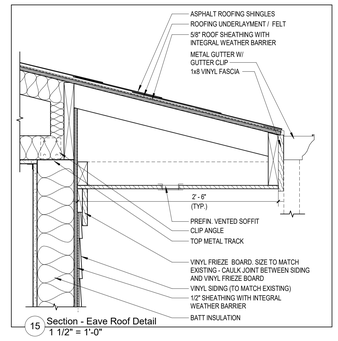
1 Section - Exist. to New GWB
1 1/2" = 1'-0"



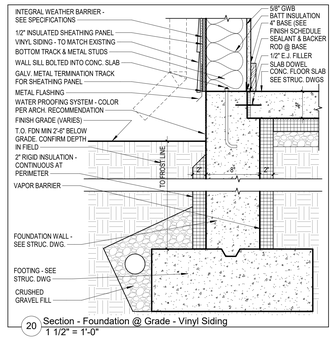
13 Section - Interior Wall & Ceiling Detail
1 1/2" = 1'-0"



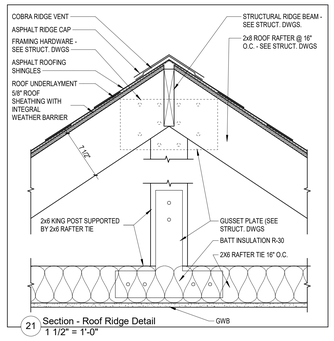
14 Section - Roof Truss Detail
1 1/2" = 1'-0"



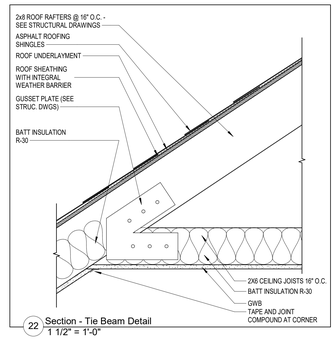
15 Section - Eave Roof Detail
1 1/2" = 1'-0"



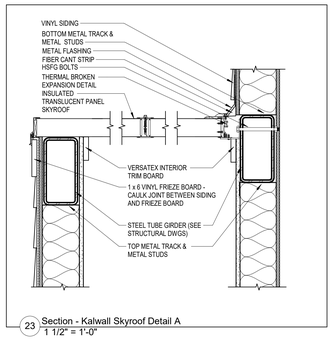
20 Section - Foundation @ Grade - Vinyl Siding
1 1/2" = 1'-0"



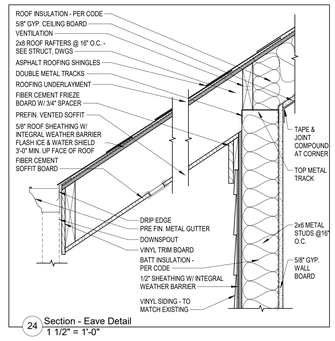
21 Section - Roof Ridge Detail
1 1/2" = 1'-0"



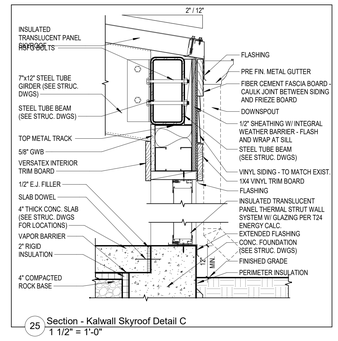
22 Section - Tie Beam Detail
1 1/2" = 1'-0"



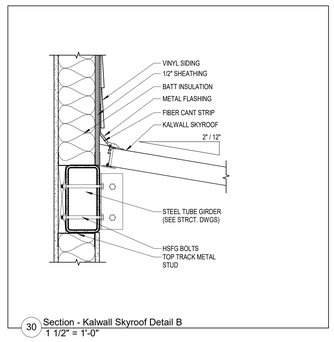
23 Section - Kalwall Skyroof Detail A
1 1/2" = 1'-0"



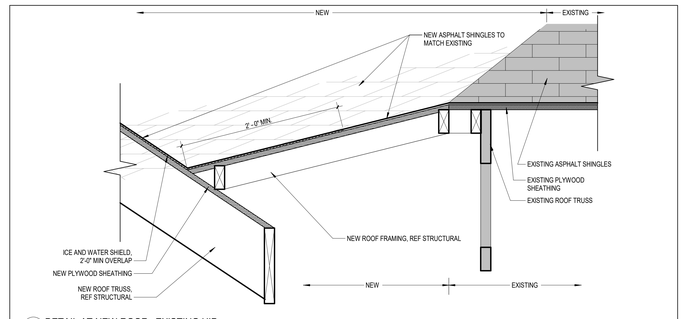
24 Section - Eave Detail
1 1/2" = 1'-0"



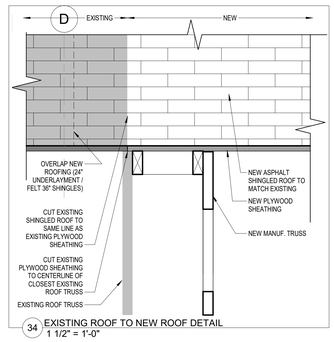
25 Section - Kalwall Skyroof Detail C
1 1/2" = 1'-0"



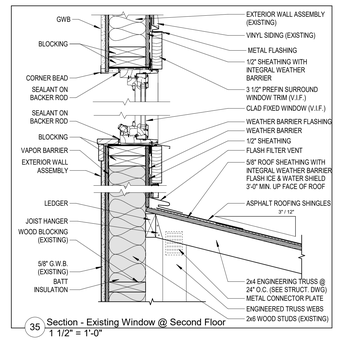
30 Section - Kalwall Skyroof Detail B
1 1/2" = 1'-0"



32 DETAIL AT NEW ROOF - EXISTING HIP
1 1/2" = 1'-0"

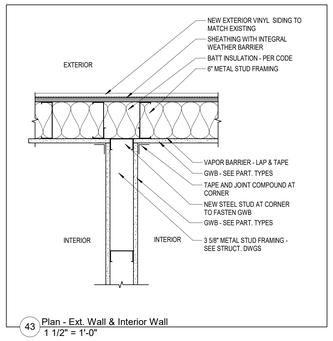


34 EXISTING ROOF TO NEW ROOF DETAIL
1 1/2" = 1'-0"

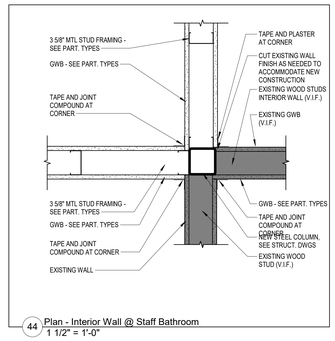


35 Section - Existing Window @ Second Floor
1 1/2" = 1'-0"

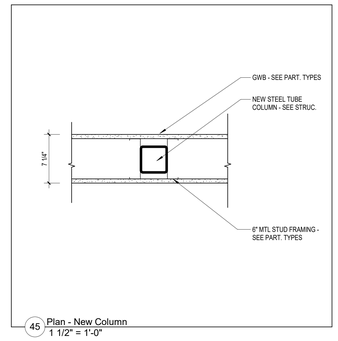
42 Plan - Corner Wall @ Multi-Purpose Room
1 1/2" = 1'-0"



43 Plan - Ext. Wall & Interior Wall
1 1/2" = 1'-0"

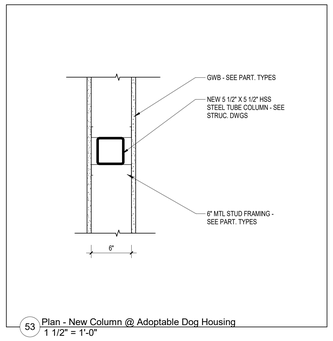


44 Plan - Interior Wall @ Staff Bathroom
1 1/2" = 1'-0"

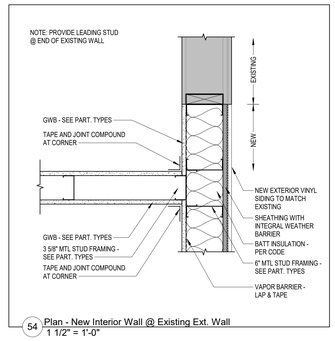


45 Plan - New Column
1 1/2" = 1'-0"

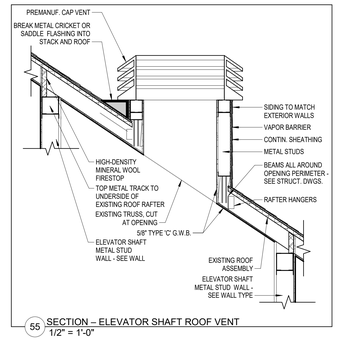
52 DETAIL AT NEW COLUMN - EXISTING WALL
1 1/2" = 1'-0"



53 Plan - New Column @ Adoptable Dog Housing
1 1/2" = 1'-0"



54 Plan - New Interior Wall @ Existing Ext. Wall
1 1/2" = 1'-0"



55 SECTION – ELEVATOR SHAFT ROOF VENT
1/2" = 1'-0"

NO.	REVISION	DATE

ARCHITECTS SEAL

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Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO.	1723

DETAILS - EXTERIOR & INTERIOR BUILDING

CONSTRUCTION SET ☐ PERMIT SET ☐ BID SET ■ PROGRESS SET ☐

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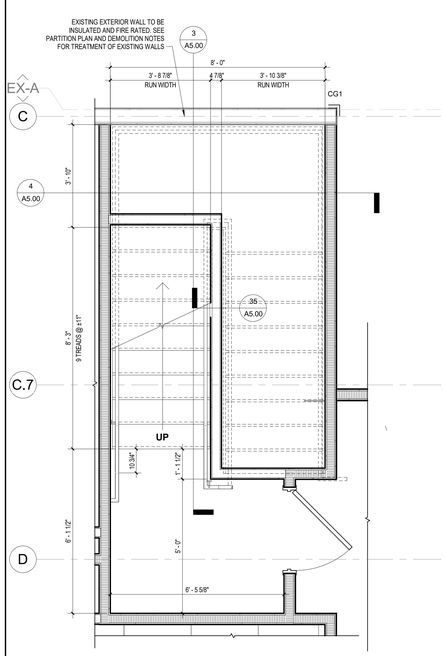
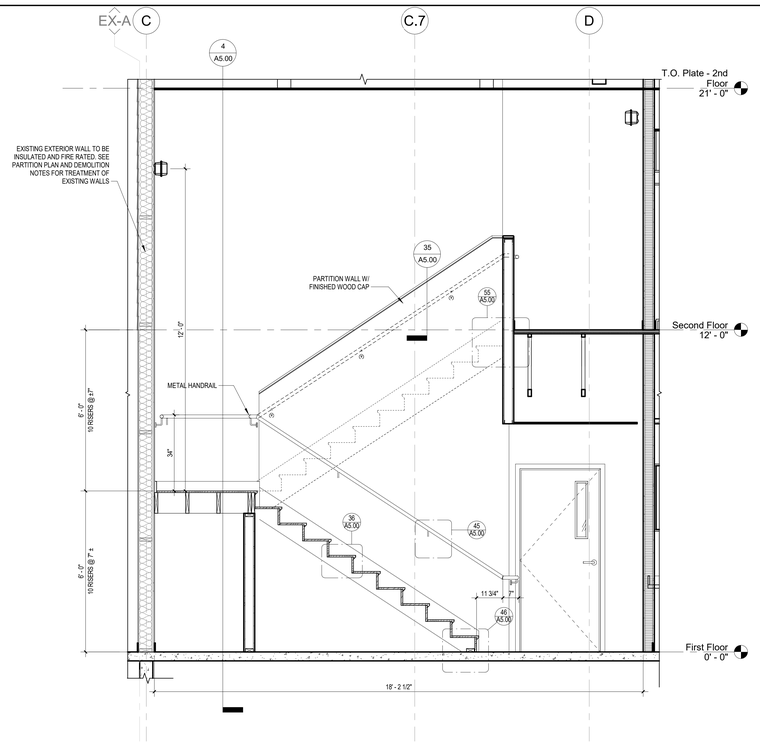
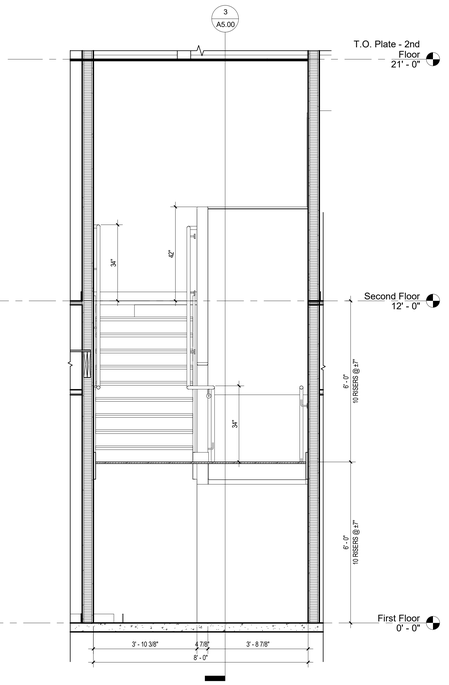
A4.02



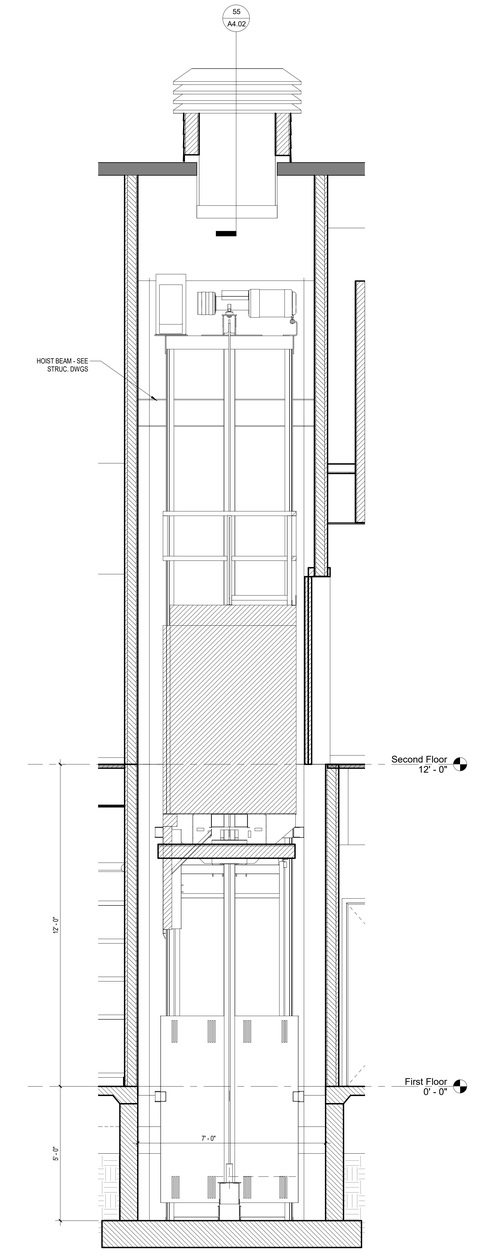
1 EGRESS STAIR - FIRST FLOOR
1/2" = 1'-0"



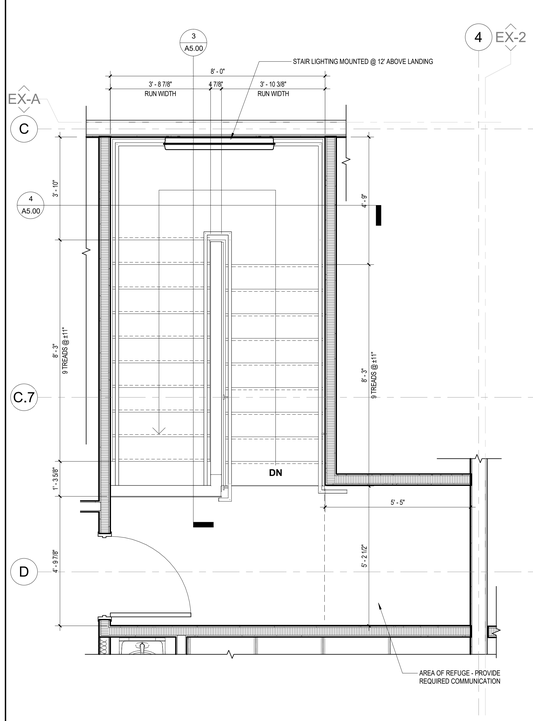
3 EGRESS STAIRS - SECTION 1
1/2" = 1'-0"



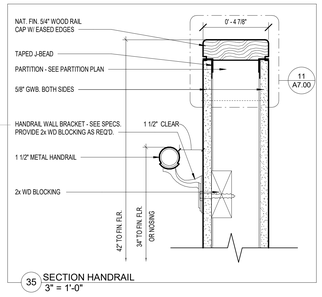
4 EGRESS STAIR - SECTION 2
1/2" = 1'-0"



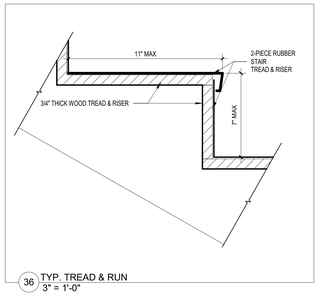
6 ELEVATOR SECTION
1/2" = 1'-0"



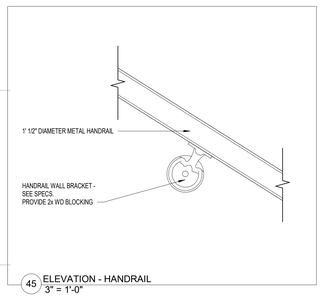
2 EGRESS STAIR - SECOND FLOOR
1/2" = 1'-0"



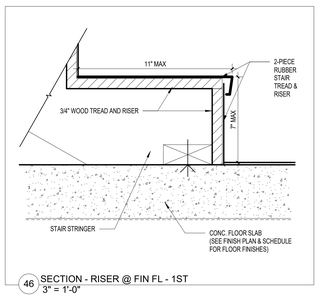
35 SECTION HANDRAIL
3" = 1'-0"



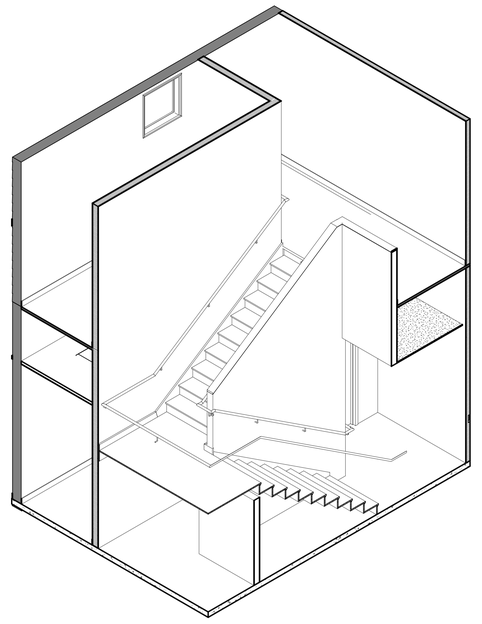
36 TYP. TREAD & RUN
3" = 1'-0"



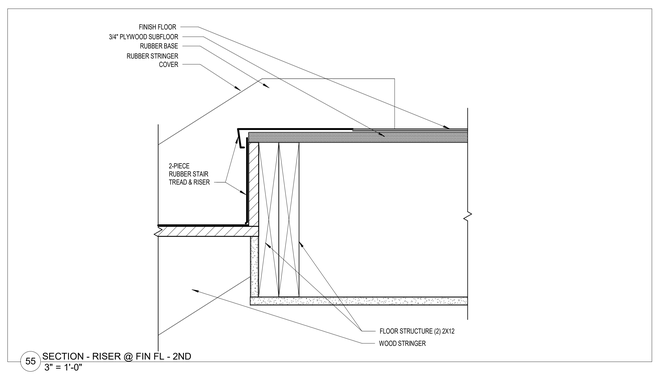
45 ELEVATION - HANDRAIL
3" = 1'-0"



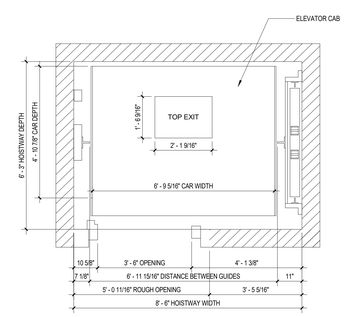
46 SECTION - RISER @ FIN FL - 1ST
3" = 1'-0"



5 AXONOMETRIC - EGRESS STAIR #1



55 SECTION - RISER @ FIN FL - 2ND
3" = 1'-0"



10 ELEVATOR - FIRST FLOOR
1/2" = 1'-0"

NO.	REVISION	DATE
	DESCRIPTION	

ARCHITECTS SEAL

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Jefferson County Animal Care Facility
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County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO.	1723

CONSTRUCTION SET ☐ PERMIT SET ☐ BID SET ■ PROGRESS SET ☐

VERTICAL CIRCULATION

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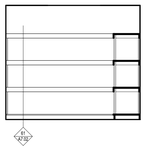
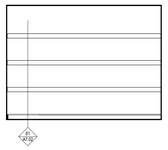
A5.00

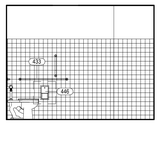
INTERIOR PERSPECTIVE - BREAK ROOM



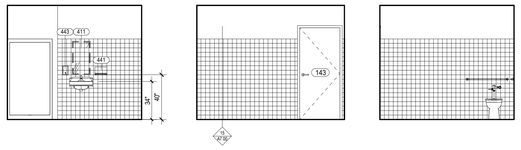
25 174 - DOG SUPPLIES STORAGE - E
1/4" = 1'-0"



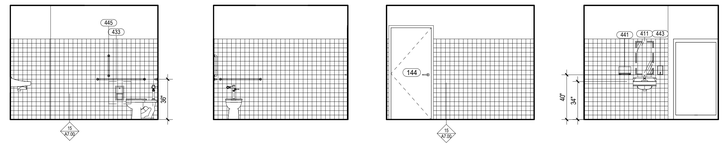
24S 142 - EVIDENCE STORAGE - S
1/4" = 1'-0"



23N 143 - STAFF RESTROOM W/ SHOWER (M) - N
1/4" = 1'-0"

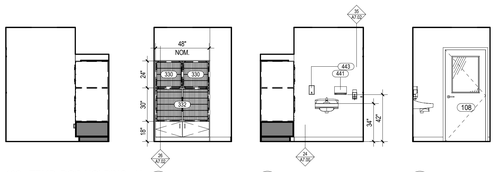


23E 23S 23W



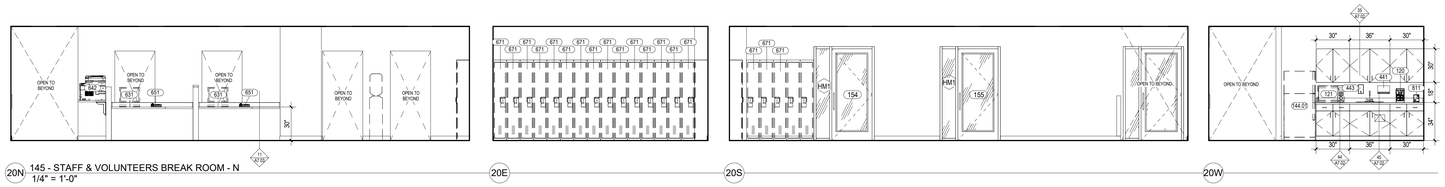
22N 144 - STAFF RESTROOM W/ SHOWER (F) - N
1/4" = 1'-0"

22E 22S 22W



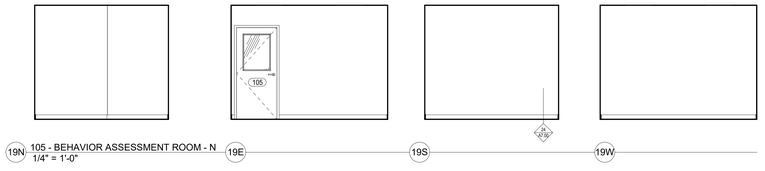
21N 108 - TEMP. DOG HOLDING - N
1/4" = 1'-0"

21E 21S 21W



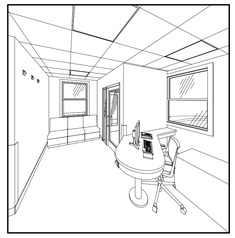
20N 145 - STAFF & VOLUNTEERS BREAK ROOM - N
1/4" = 1'-0"

20E 20S 20W

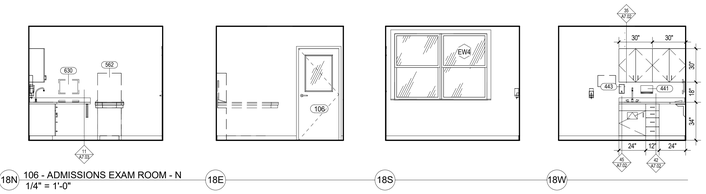


19N 105 - BEHAVIOR ASSESSMENT ROOM - N
1/4" = 1'-0"

19E 19S 19W

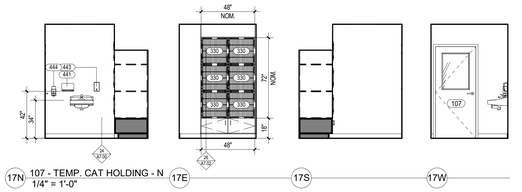


INT. PERS. - SMC / SNC RECEPTION AREA



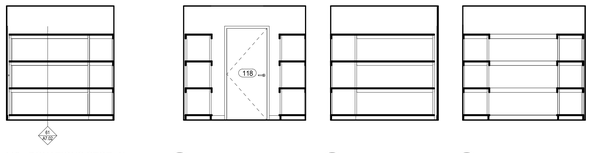
18N 106 - ADMISSIONS EXAM ROOM - N
1/4" = 1'-0"

18E 18S 18W



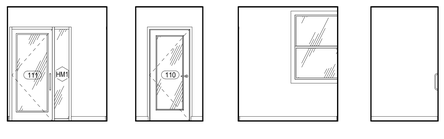
17N 107 - TEMP. CAT HOLDING - N
1/4" = 1'-0"

17E 17S 17W



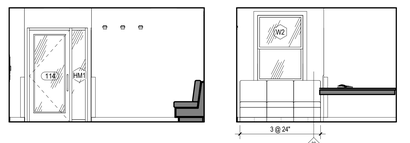
25N 118 - DONATIONS STOR -N
1/4" = 1'-0"

25E 25S 25W



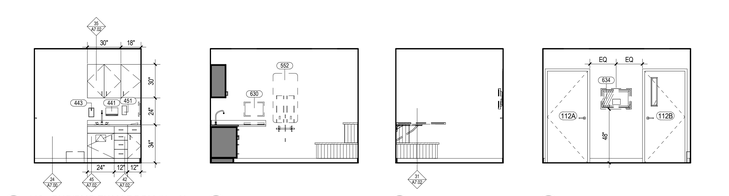
15N 110 - SNC/SMC ENTRY /EXIT VESTIBULE - N
1/4" = 1'-0"

15E 15S 15W



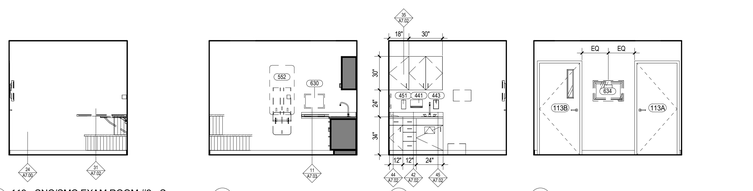
14N 111 - SNC/SMC WAITING AREA - N
1/4" = 1'-0"

14E 14S 14W



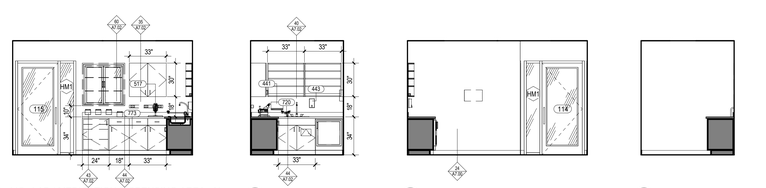
13N 112 - SNC/SMC EXAM ROOM #1 - N
1/4" = 1'-0"

13E 13S 13W



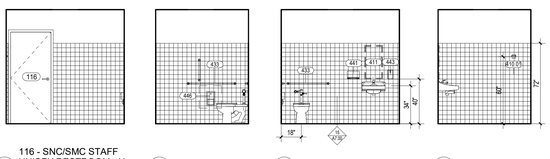
12S 113 - SNC/SMC EXAM ROOM #2 -S
1/4" = 1'-0"

12W 12N 12E



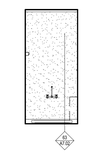
11N 115 - LAB / MEDICATION DISPENSING AREA - N
1/4" = 1'-0"

11E 11S 11W

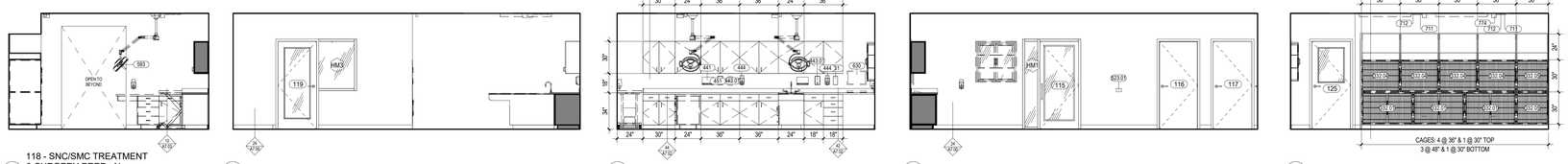


10N 116 - SNC/SMC STAFF UNISEX RESTROOM - N
1/4" = 1'-0"

10E 10S 10W

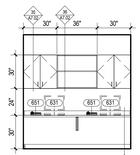


9S 117 - JAN - S
1/4" = 1'-0"



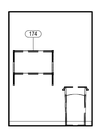
8N 118 - SNC/SMC TREATMENT & SURGERY PREP - N
1/4" = 1'-0"

8N1 8E 8S 8W

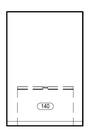


7N 119 - SNC/SMC MEDICAL OFFICES - N
1/4" = 1'-0"

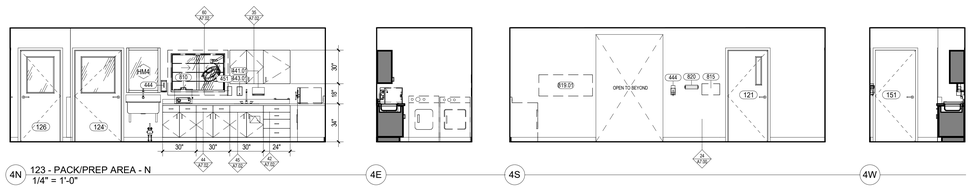
7E 7S 7W



6E 120 - LAB WASTE STOR.
1/4" = 1'-0"

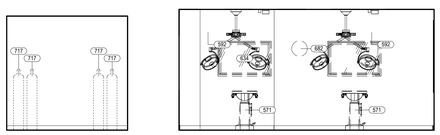


5W 131 - DEPARTURE CLOSET - W
1/4" = 1'-0"



4N 123 - PACK/PREP AREA - N
1/4" = 1'-0"

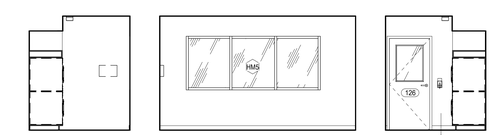
4E 4S 4W



3W 138 - OXY. CLOSET - W
1/4" = 1'-0"

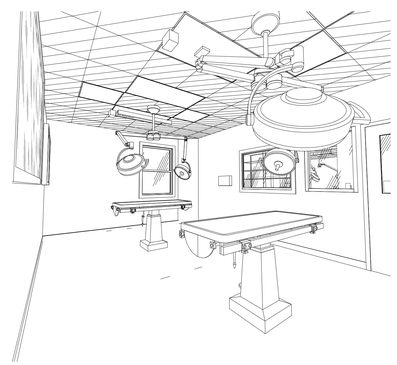
2N 124 - SNC/SMC SURGERY ROOM - N
1/4" = 1'-0"

2E 2S 2W



1N 126 - POST-OP RECOVERY AREA - N
1/4" = 1'-0"

1E 1S 1W



INTERIOR PERSPECTIVE - SURGERY

NO.	DESCRIPTION	DATE
	REVISION	

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Jefferson County Animal Care Facility

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County Project # PW19B035BLD

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SCALE:	
DATE:	15 MAR 19
PROJECT NO.	1723

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BID SET ■
PROGRESS SET ☐

INTERIOR ELEVATIONS

A6.00

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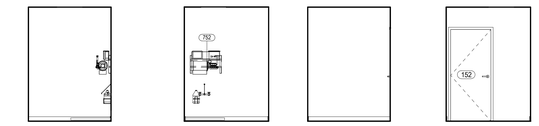
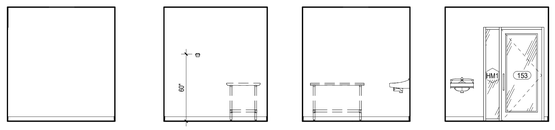
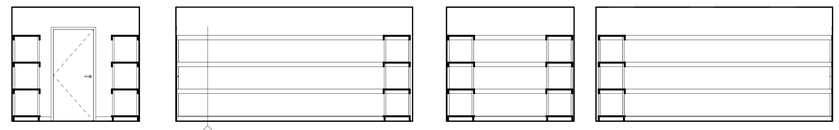


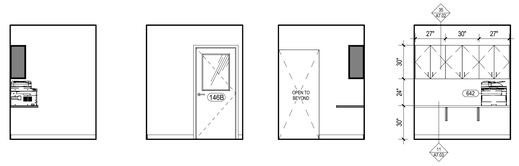
20N 168 - POWER WASH PUMP ROOM (SMT) - N
1/4" = 1'-0"
20E 20S 20W



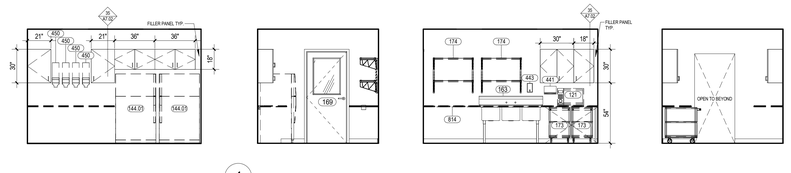
19N 153 - PUPPY WELPING ROOM - N
1/4" = 1'-0"
19E 19S 19W



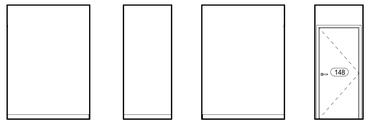
18N 171 - GEN. SUPP. STOR. - N
1/4" = 1'-0"
18E 18S 18W



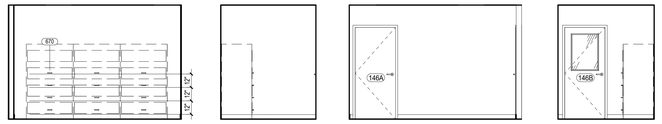
17N 150 - CLERICAL AREA - N
1/4" = 1'-0"
17E 17S 17W



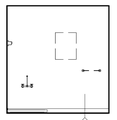
16N 147 - FOOD PREP KITCHEN (DOGS) - N
1/4" = 1'-0"
16E 16S 16W



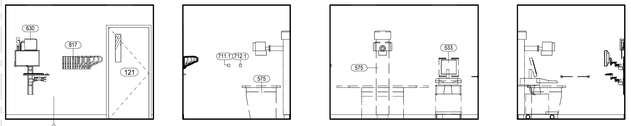
15N 148 - ELEV. CONTROL ROOM - N
1/4" = 1'-0"
15E 15S 15W



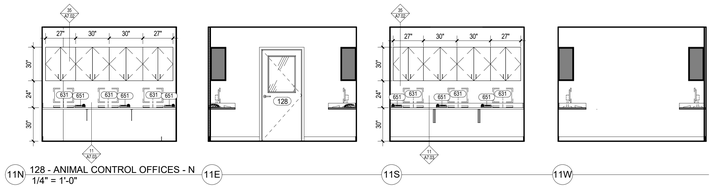
14N 146 - FILE ROOM - S
1/4" = 1'-0"
14E 14S 14W



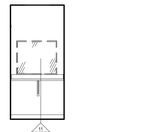
13E 185 - CLEANING SUPPLIES STOR. / JAN - E
1/4" = 1'-0"



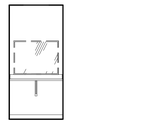
12N 121 - RADIOLOGY ROOM (DIGITAL) - N
1/4" = 1'-0"
12E 12S 12W



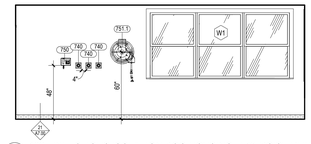
11N 128 - ANIMAL CONTROL OFFICES - N
1/4" = 1'-0"
11E 11S 11W



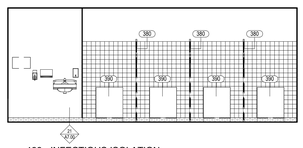
10E 129 - CHANGING ROOM - E
1/4" = 1'-0"



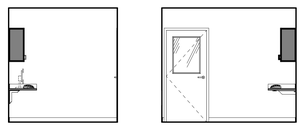
9E 130 - CHANGING ROOM (ACCESSIBLE) - E
1/4" = 1'-0"



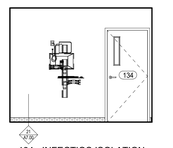
8N 132 - INFECTIOUS ISOLATION DOG HOUSING - EXERCISE RUNS - N
1/4" = 1'-0"
8E 8S 8W



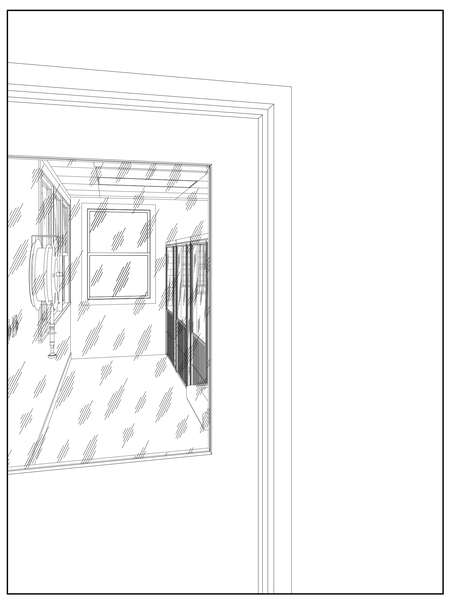
7N 133 - INFECTIOUS ISOLATION DOG HOUSING - RESTING RUNS - N
1/4" = 1'-0"
7E 7S 7W



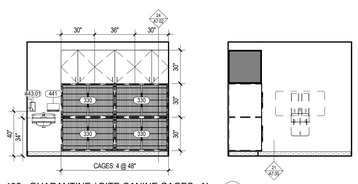
6N 130 - FIELD SUPERVISOR OFFICES - N
1/4" = 1'-0"
6E 6S 6W



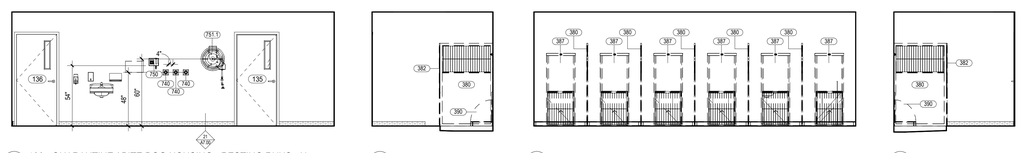
5N 134 - INFECTIOS ISOLATION CANINE CAGES - N
1/4" = 1'-0"
5E 5S 5W



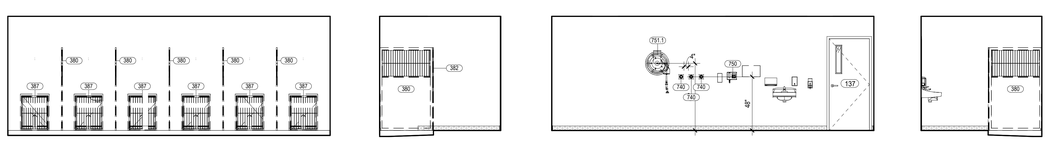
INTERIOR PERSPECTIVE - QUARANTINE HOUSING AREA



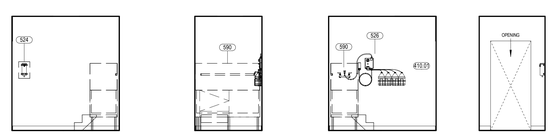
4N 135 - QUARANTINE / BITE CANINE CAGES - N
1/4" = 1'-0"
4E 4S 4W



3N 136 - QUARANTINE / BITE DOG HOUSING - RESTING RUNS - N
1/4" = 1'-0"
3E 3S 3W



2N 137 - QUARINTNE / BITE DOG HOUSING - EXERCISE RUNS - N
1/4" = 1'-0"
2E 2S 2W



1N 139 - DOG BATHING AREA - N
1/4" = 1'-0"
1E 1S 1W

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO.	1723

CONSTRUCTION SET ☐
PERMIT SET ☐
BID SET ■
PROGRESS SET ☐

INTERIOR ELEVATIONS

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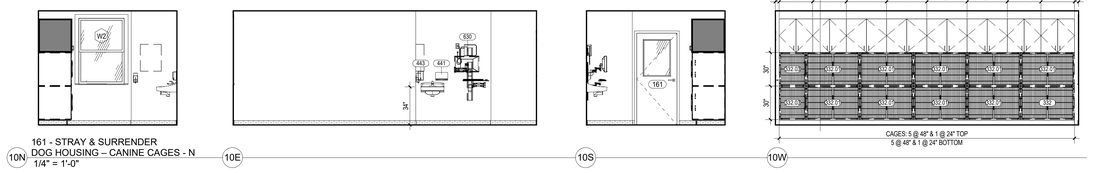


10N 161 - STRAY & SURRENDER DOG HOUSING – CANINE CAGES - N
1/4" = 1'-0"

10E 10S 10W

9N 168 - FOOD BOWL WASH AREA - N
1/4" = 1'-0"

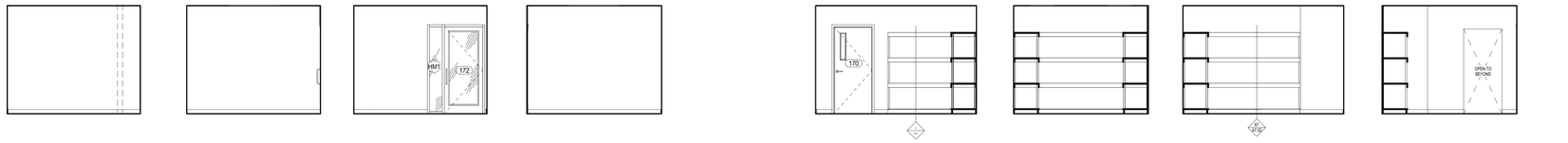
9E 9S 9W

8N 192 - GENERAL LAUNDRY ROOM - S
1/4" = 1'-0"

8E 8S 8W

7N 169 - DOG FOOD STORAGE - N
1/4" = 1'-0"

7E 7S 7W

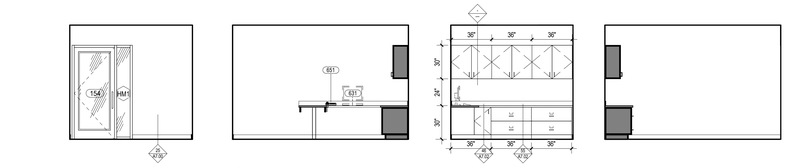


6N 172 - ADOPTION COUNSELING ROOM - N
1/4" = 1'-0"

6E 6S 6W

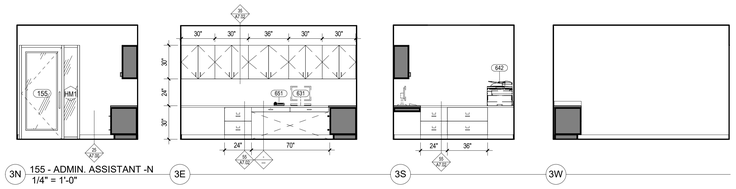
5N 170 - GENERAL LAUNDRY STORAGE - N
1/4" = 1'-0"

5E 5S 5W



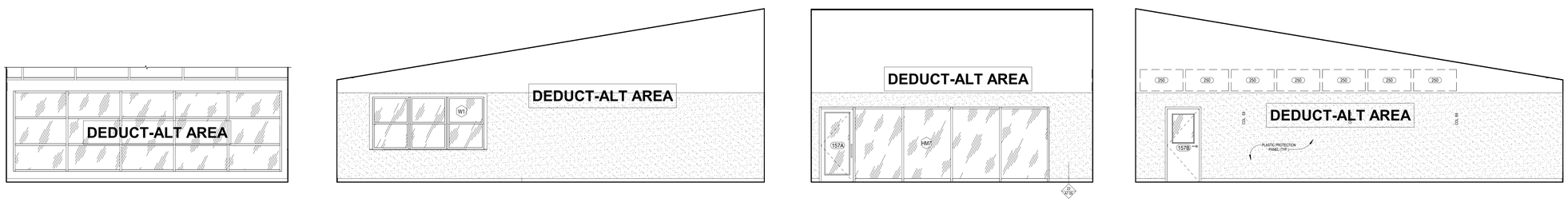
4N 154 - ANIMAL CONTROL OFFICER (JT) - N
1/4" = 1'-0"

4E 4S 4W



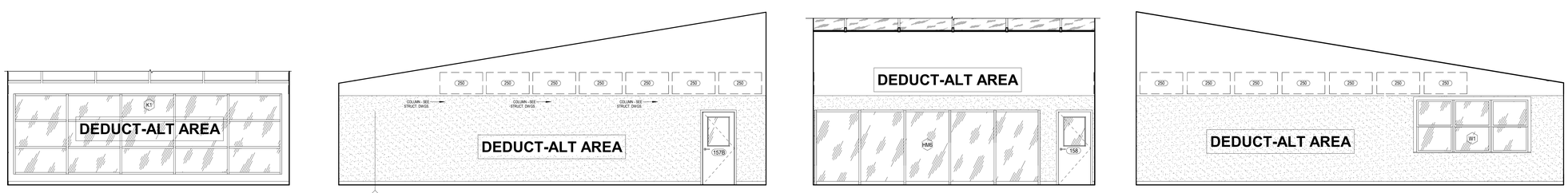
3N 155 - ADMIN. ASSISTANT -N
1/4" = 1'-0"

3E 3S 3W



2N 157 - ENCLOSED EXERCISE YARD A - N
1/4" = 1'-0"

2E 2S 2W



1N 158 - ENCLOSED EXERCISE YARD B - N
1/4" = 1'-0"

1E 1S 1W

REVISION

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INTERIOR ELEVATIONS

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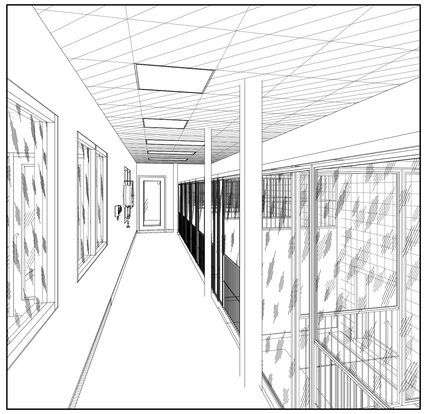
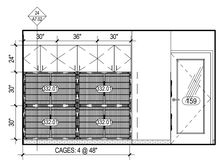
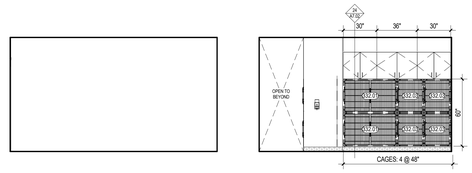


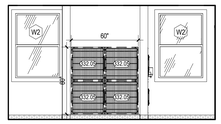
INTERIOR PERSPECTIVE - DOG HOUSING AREA



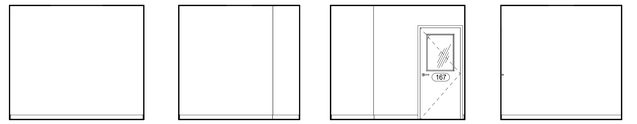
12N 159 - ADOPTABLE DOG HOUSING - CANINE CAGES - N
1/4" = 1'-0"



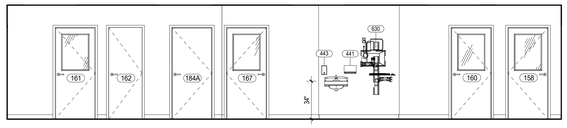
12E 12S 12W



11N 167 - DOG BONDING - N
1/4" = 1'-0"

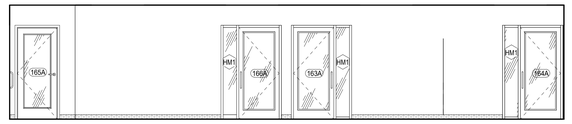


11E 11S 11W

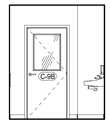


10N C-9 - PUBLIC CORRIDOR - N
1/4" = 1'-0"

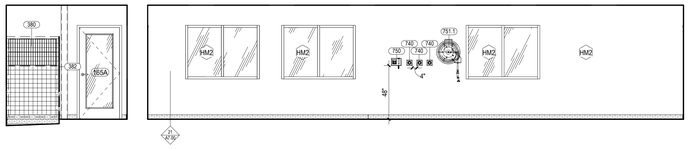
10E



10S



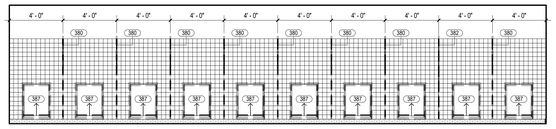
10W



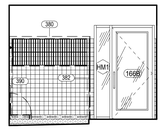
9N 166 - ADOPTABLE DOG HOUSING - EXERCISE RUNS - N
1/4" = 1'-0"

9E

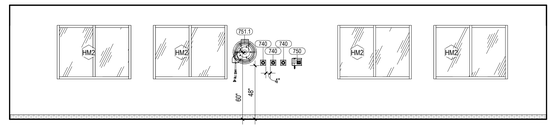
9S



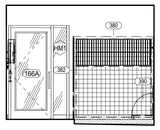
9W

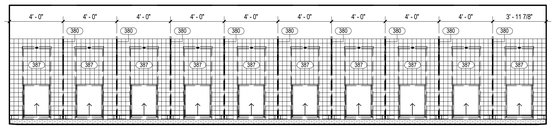


8S



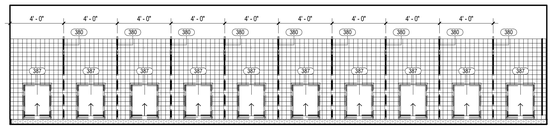
8W





8N 165 - ADOPTABLE DOG HOUSING - RESTING RUNS - N
1/4" = 1'-0"

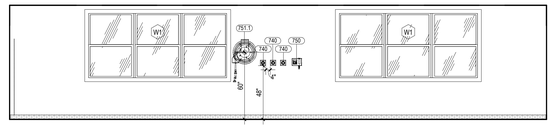
8E



7N 163 - STRAY & SURRENDER DOG HOUSING - EXERCISE RUNS - N
1/4" = 1'-0"

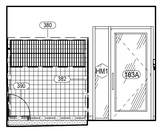
7E

7S



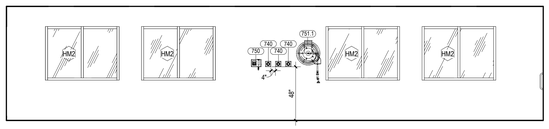
7W

INTERIOR PERSPECTIVE - FRONT DESK

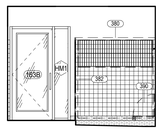


6N 164 - STRAY & SURRENDER DOG HOUSING - RESTING RUNS - N
1/4" = 1'-0"

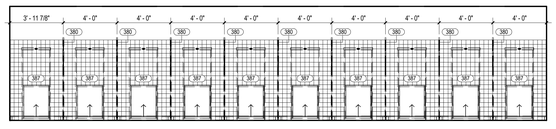
6E

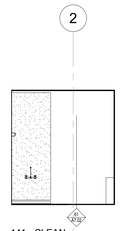


6S



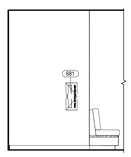
6W

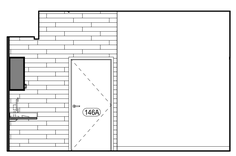




5S 141 - CLEAN. SUPP. STOR. / MOP - S
1/4" = 1'-0"

G



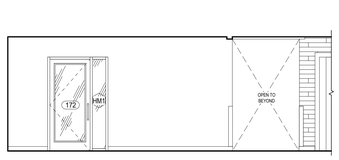


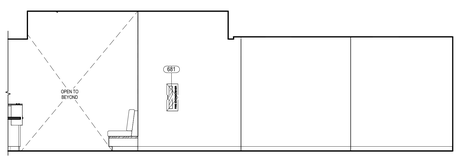
4S RECEPTION AREA S2
1/4" = 1'-0"

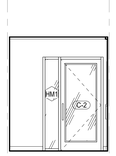
4N

4E

H G



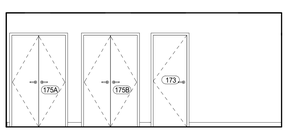


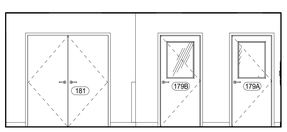


3N C-1 PUBLIC CORRIDOR – N
1/4" = 1'-0"

3S

3W



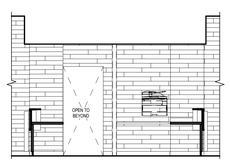


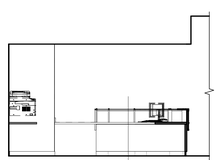
2N C-2 PUBLIC CORRIDOR - N
1/4" = 1'-0"

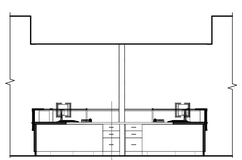
2E

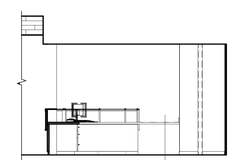
2S

2W









1N 104 - RECEPTION AREA - N
1/4" = 1'-0"

1E

1S

1W

NO.	REVISION DESCRIPTION	DATE

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO:	1723

CONSTRUCTION SET ☐
PERMIT SET ☐
BID SET ■
PROGRESS SET ☐

INTERIOR ELEVATIONS

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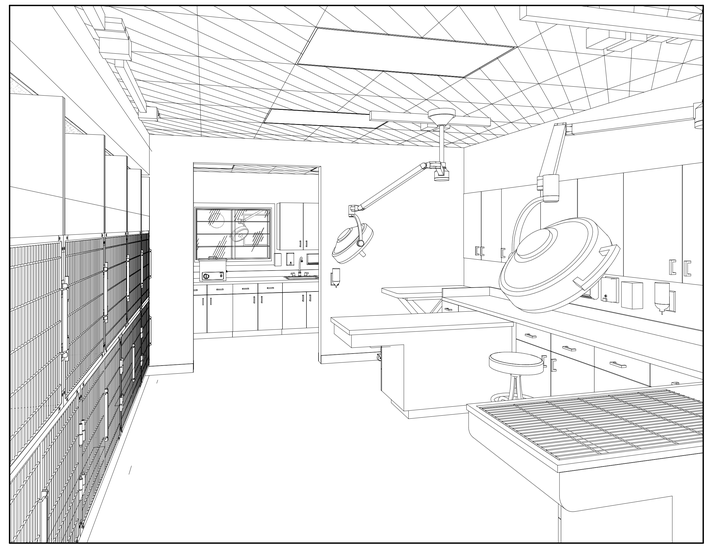
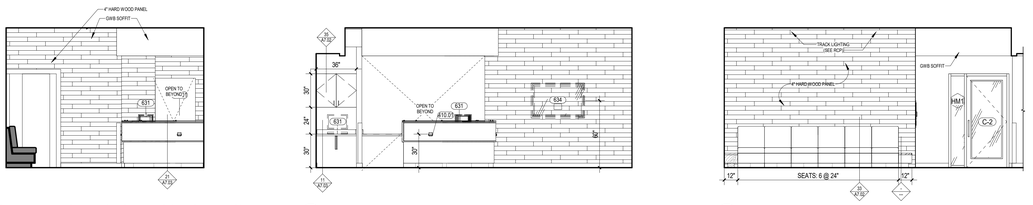
A6.03

RECEPTION AREA

MULTI PURPOSE ROOM



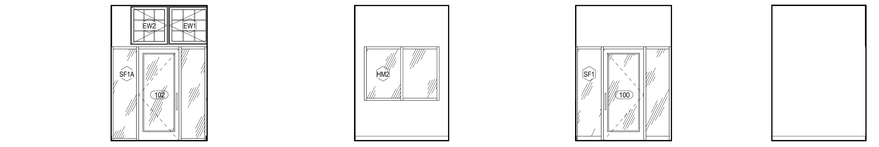
INTERIOR PERSPECTIVE - SURGERY PREP & TREATMENT AREA



8N 102 - WAITING AREA (ADODPTERS & RECLAIMERS)- N
1/4" = 1'-0"

8E

8W

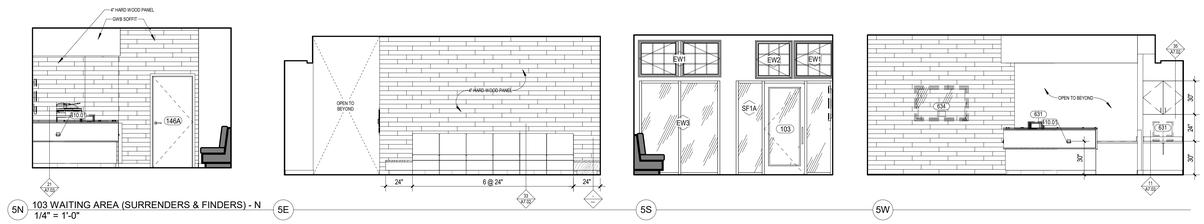


7N 100 - ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS) - N
1/4" = 1'-0"

6E

6S

6W

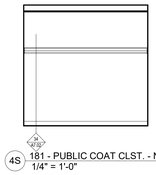


5N 103 WAITING AREA (SURRENDERS & FINDERS) - N
1/4" = 1'-0"

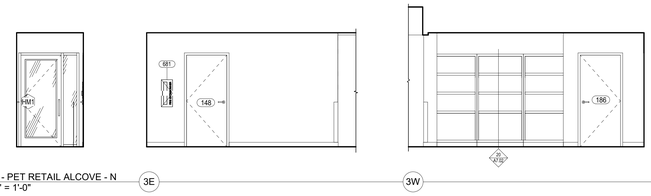
5E

5S

5W



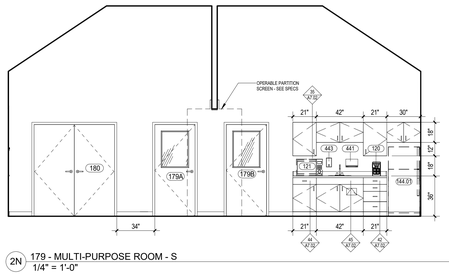
4S 181 - PUBLIC COAT CLST. - N
1/4" = 1'-0"



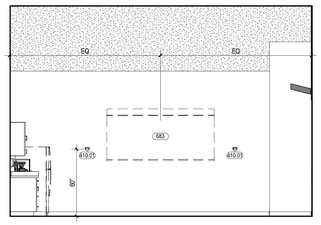
3N 176 - PET RETAIL ALCOVE - N
1/4" = 1'-0"

3E

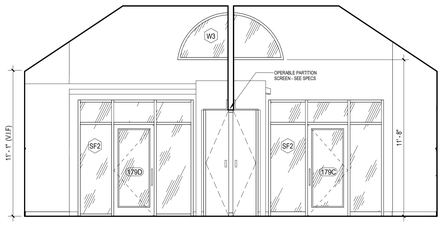
3W



2N 179 - MULTI-PURPOSE ROOM - S
1/4" = 1'-0"

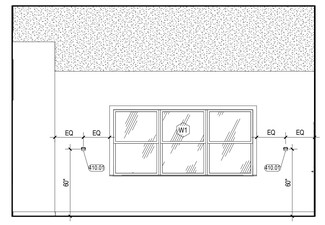


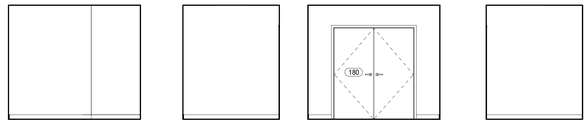
2E



2S

2W





1N 180 - MULTI-PURPOSE STORAGE - N
1/4" = 1'-0"

1E

1S

1W

NO.	REVISION DESCRIPTION	DATE

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO.	1723

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

INTERIOR ELEVATIONS

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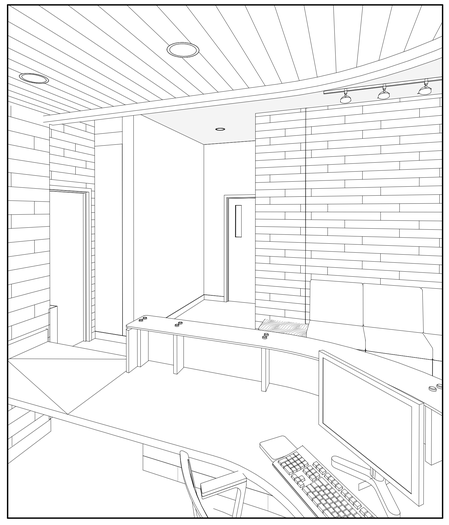
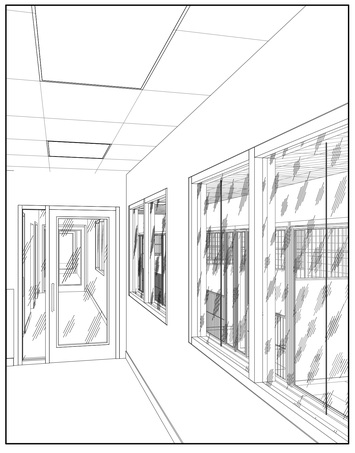
A6.04

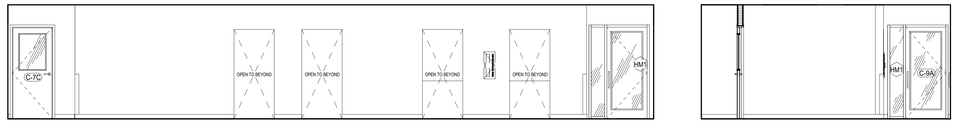
INTERIOR PERSPECTIVE - MAIN CORRIDOR



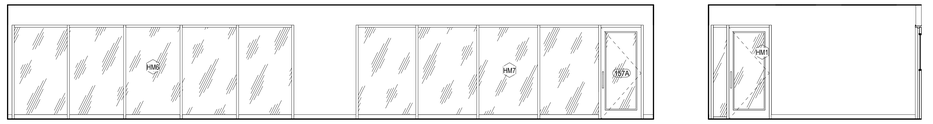
INTERIOR PERSPECTIVE - MAIN CORRIDOR (II)



INTERIOR PERSPECTIVE - CORRIDOR C-5

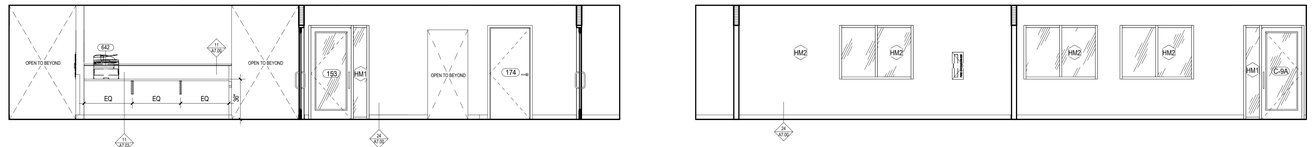


8S — 8W

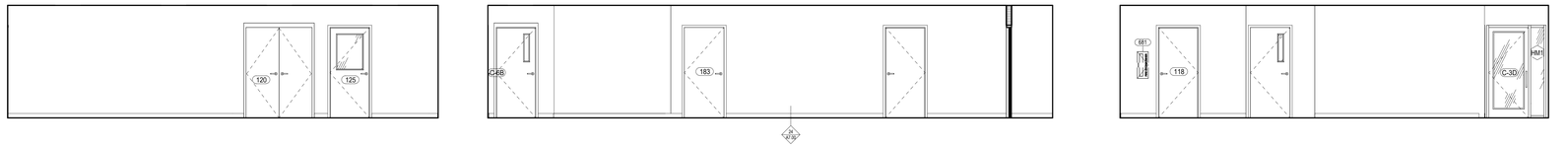


8N C-6 STAFF CORRIDOR - N
1/4" = 1'-0"

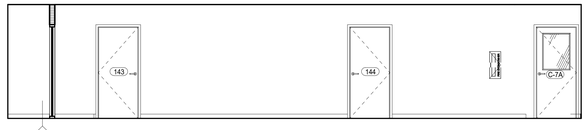
8E



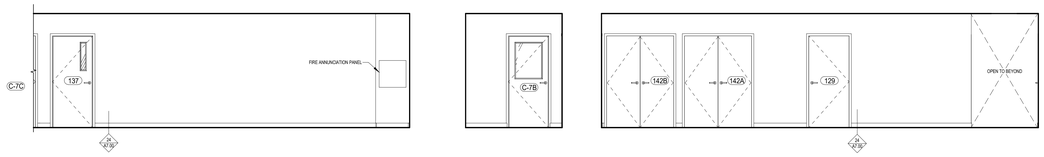
6E — 6W



5E — 5S — 5W

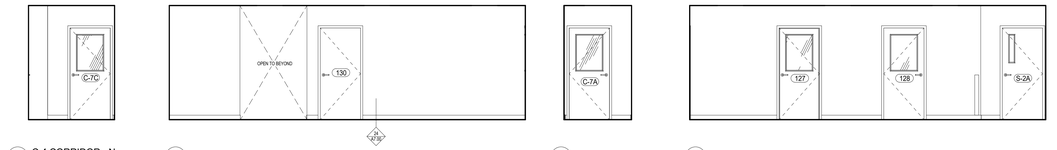


5N C-5 STAFF CORRIDOR - N
1/4" = 1'-0"



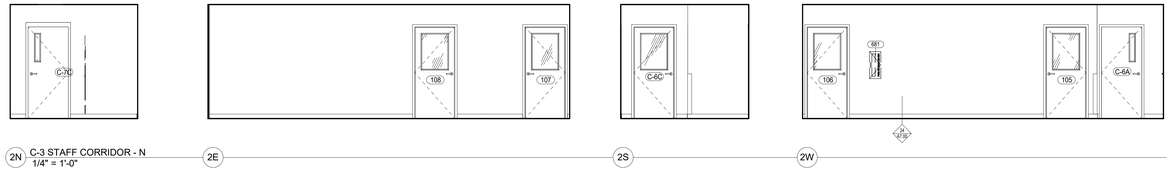
4N C-4 CORRIDOR - N1
1/4" = 1'-0"

4E — 4S



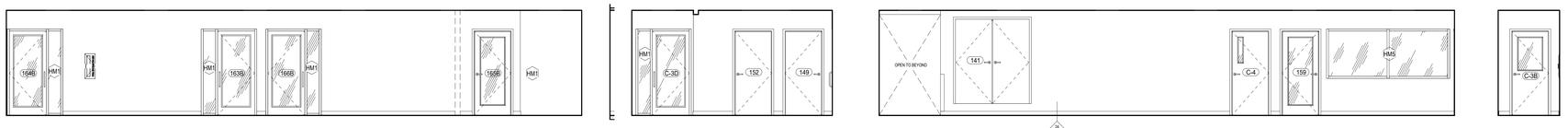
3N C-4 CORRIDOR - N
1/4" = 1'-0"

3E — 3S — 3W



2N C-3 STAFF CORRIDOR - N
1/4" = 1'-0"

2E — 2S — 2W



1N C-3 PUBLIC CORRIDOR - N
1/4" = 1'-0"

1E — 1S — 1W

REVISION

NO.	DESCRIPTION	DATE

ARCHITECTS SEAL

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY: Author
CHECKED BY: Checker
SCALE:
DATE: 15 MAR 19
PROJECT NO. 1723

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

INTERIOR ELEVATIONS

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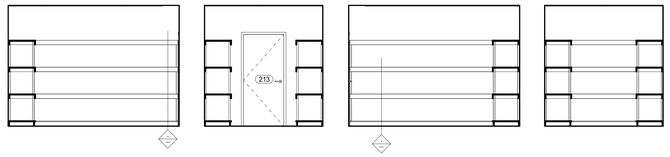
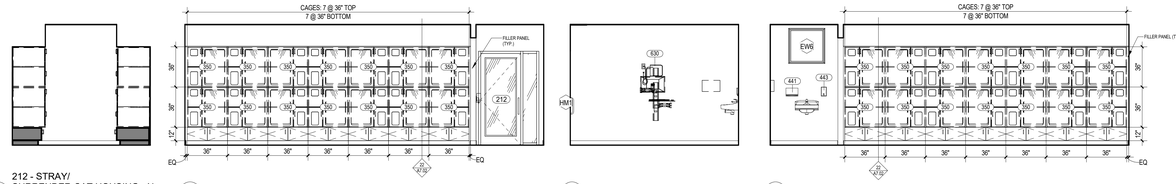
INTERIOR PERSPECTIVE - ADOPTABLE CAT HOUSING



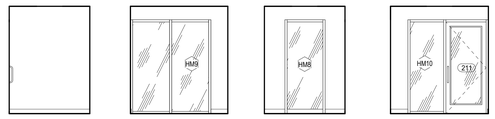
12N 213 - KITTY LITTER STORAGE - N
1/4" = 1'-0"

12E 12S 12W



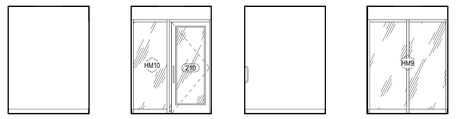
11N 212 - STRAY/
SURRENDER CAT HOUSING - N
1/4" = 1'-0"

11E 11S 11W



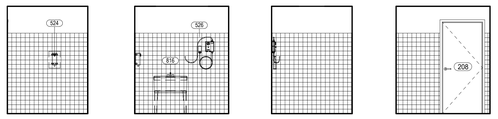
10N 211 - CAT BONDING
/ GET ACQUAINTED - N
1/4" = 1'-0"

10E 10S 10W



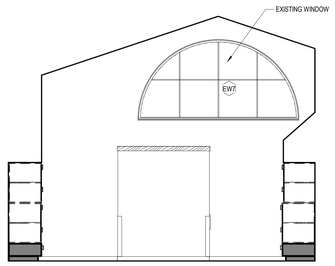
9N 210 - CAT BONDING
/ GET ACQUAINTED - N
1/4" = 1'-0"

9E 9S 9W

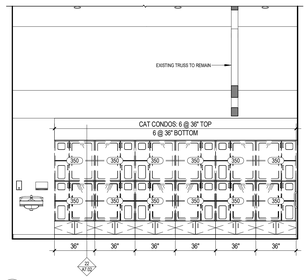


8N 208 - CAT BATHING - N
1/4" = 1'-0"

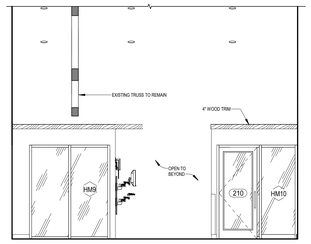
8E 8S 8W



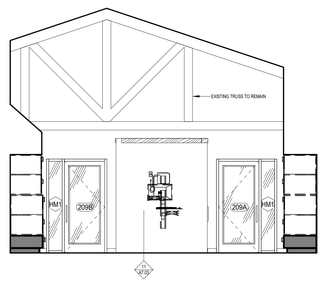
7N 209 - ADOPTABLE CAT HOUSING - N
1/4" = 1'-0"



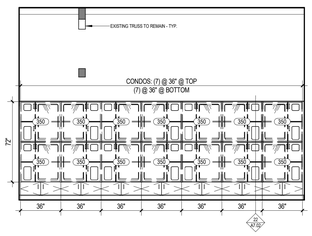
7E1



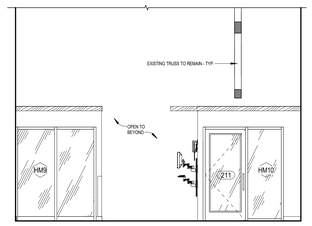
7W2



7S

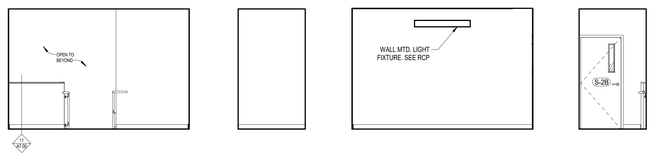


7W1



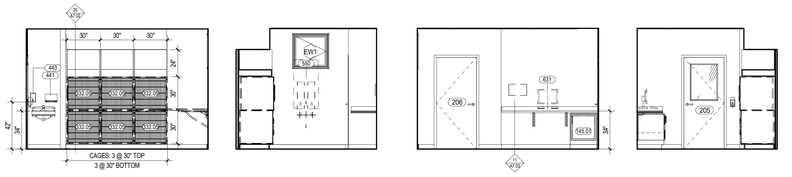
7E2

INTERIOR PERSPECTIVE - STRAY / SURRENDER CAT HOUSING



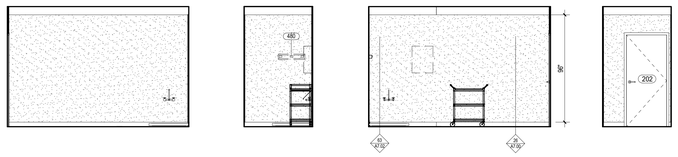
6N S-2 - EGRESS STAIR - N
1/4" = 1'-0"

6E 6S 6W



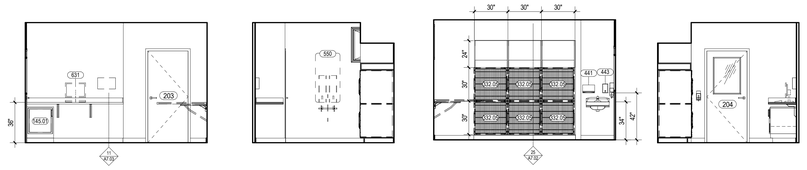
5N 205 - GENERAL ISOLATION
/ INFECTIOUS CAT HOUSING - N
1/4" = 1'-0"

5E 5S 5W



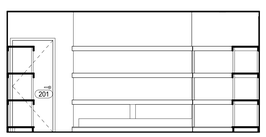
4N 202 - MOP - N
1/4" = 1'-0"

4E 4S 4W

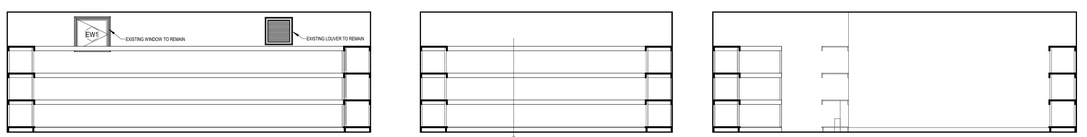


3N 204 - RESPIRATORY ISOLATION
/ INFECTIOUS CAT HOUSING - N
1/4" = 1'-0"

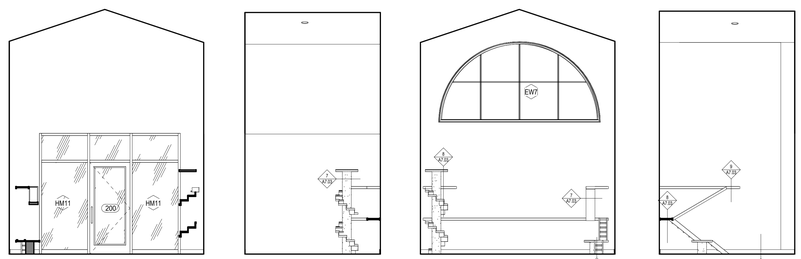
3E 3S 3W



2N 201 - LONG TERM DOCUMENT STORAGE - N
1/4" = 1'-0"



2E 2S 2W



1N 200 - KITTEN DISPLAY ROOM - N
1/4" = 1'-0"

1E 1S 1W

NO.	REVISION	DATE
	DESCRIPTION	

ARCHITECTS SEAL

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B0355BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO:	1723

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

INTERIOR ELEVATIONS

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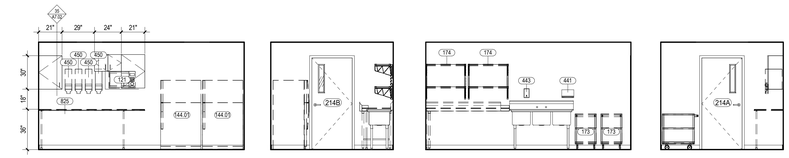
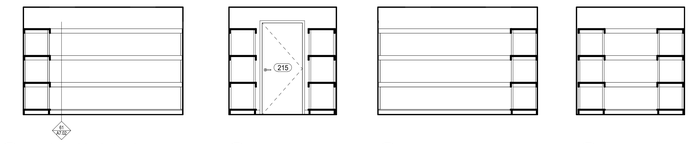
A6.06



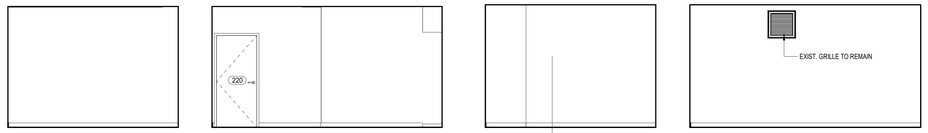
9N 214 - FOOD PREP KITCHEN - N
1/4" = 1'-0"

9E 9S 9W



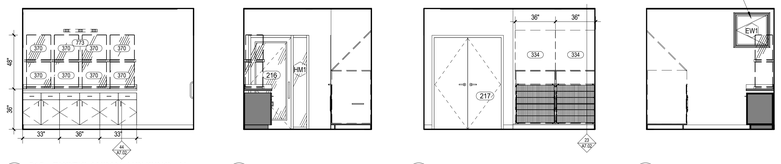
8N 215 - CAT FOOD STORAGE - N
1/4" = 1'-0"

8E 8S 8W



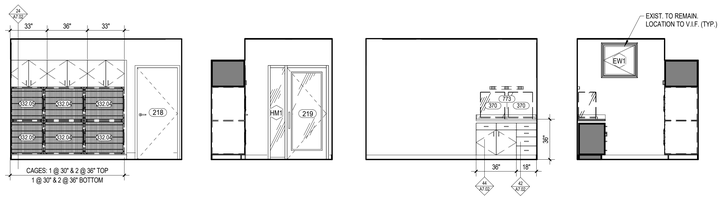
7N 220 - MECHANICAL - N
1/4" = 1'-0"

7E 7S 7W



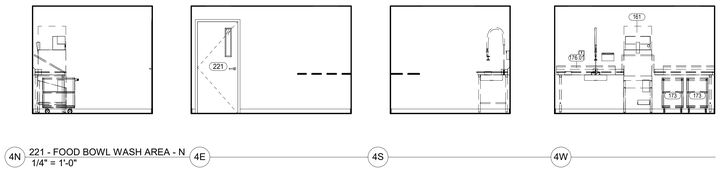
6N 216 - EXOTIC ANIMAL HOUSING - N
1/4" = 1'-0"

6E 6S 6W



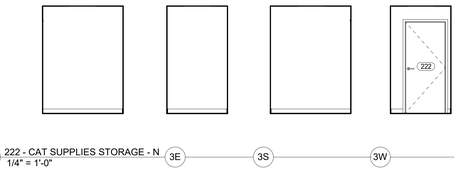
5N 219 - SMALL MAMMAL HOUSING - N
1/4" = 1'-0"

5E 5S 5W



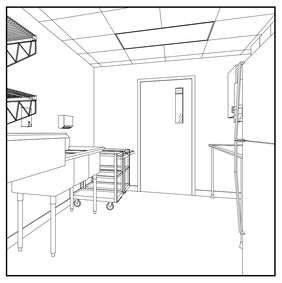
4N 221 - FOOD BOWL WASH AREA - N
1/4" = 1'-0"

4E 4S 4W

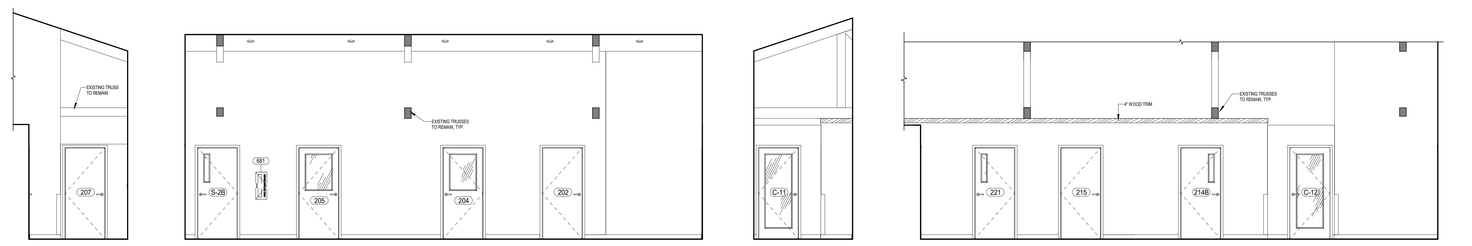


3N 222 - CAT SUPPLIES STORAGE - N
1/4" = 1'-0"

3E 3S 3W

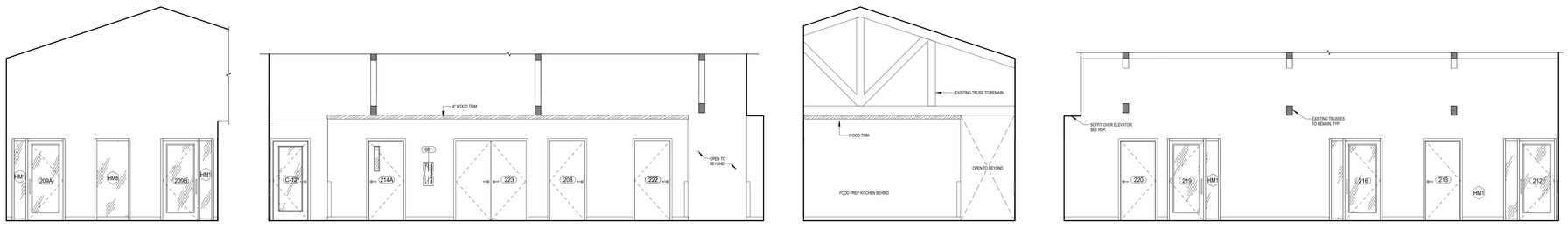


INTERIOR PERSPECTIVE - FOOD PREP



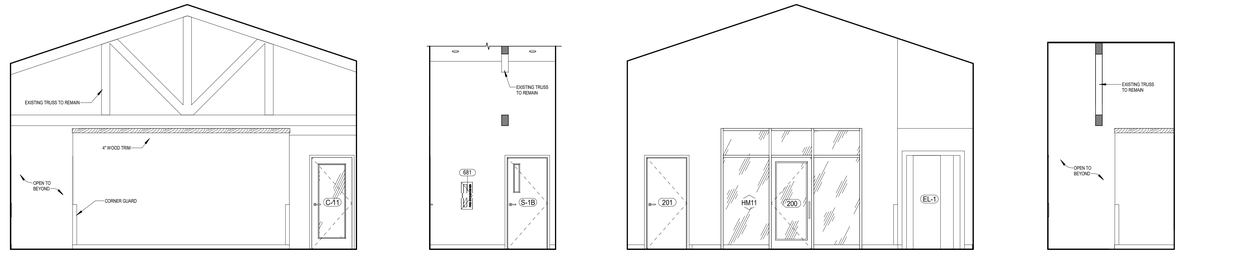
2N C-12 - STAFF CORRIDOR - N
1/4" = 1'-0"

2E 2S 2W



1N2 C-14 PUBLIC CORRIDOR - N2
1/4" = 1'-0"

1E2 1S2 1W2



1N1 C-11 - PUBLIC CORRIDOR - N1
1/4" = 1'-0"

1E1 1S1 1W1

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ARCHITECTS SEAL

NO.	DESCRIPTION	DATE
	REVISION	

Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY: Author
CHECKED BY: Checker
SCALE:
DATE: 15 MAR 19
PROJECT NO. 1723

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

INTERIOR ELEVATIONS

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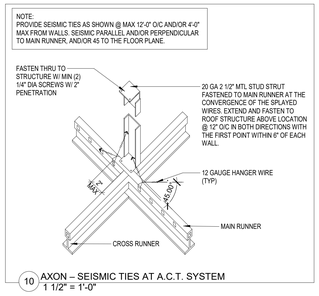
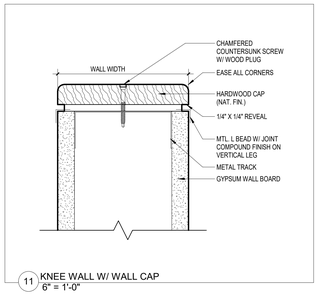
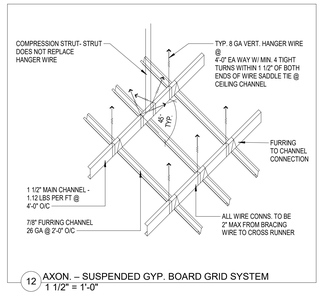


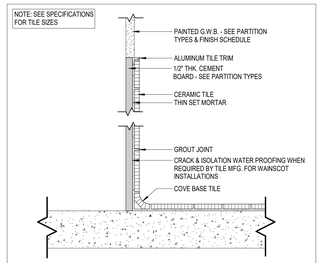
10 AXON – SEISMIC TIES AT A.C.T. SYSTEM
1 1/2" = 1'-0"



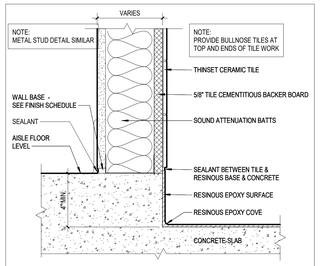
11 KNEE WALL W/ WALL CAP
6" = 1'-0"



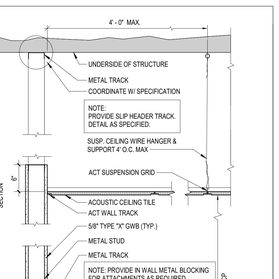
12 AXON. – SUSPENDED GYP. BOARD GRID SYSTEM
1 1/2" = 1'-0"



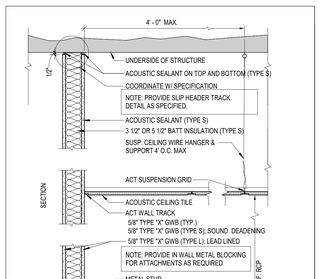
15 SECTION - COVE TILE DETAIL
3" = 1'-0"



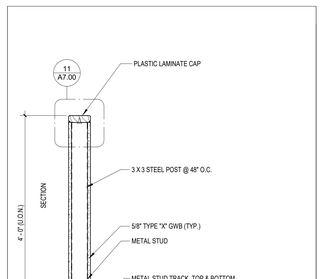
16 RESINOUS EPOXY & TILE BASE DETAIL @ DEPRESSED SLAB
3" = 1'-0"



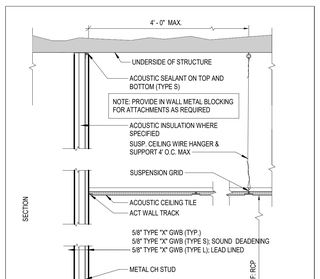
20 SECTION - INTEGRAL RUBBER FLOORING @ GWB
3" = 1'-0"



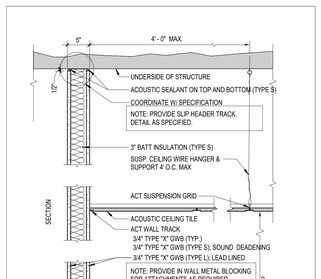
21 SECTION - EPOXY COVE BASE @ GWB
3" = 1'-0"



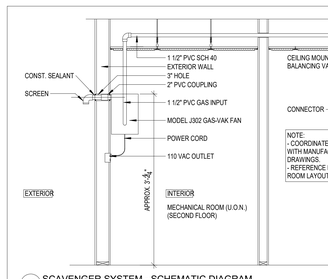
22 SECTION - EPOXY COVE BASE @ VPP
3" = 1'-0"



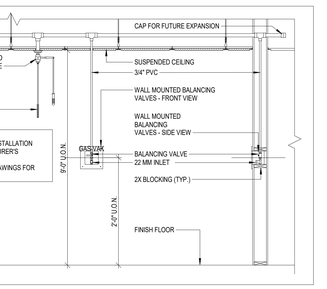
23 SECTION - PLASTIC PANEL WAINSCOTTING @ SEAMLESS RUBBER FLOORING
3" = 1'-0"



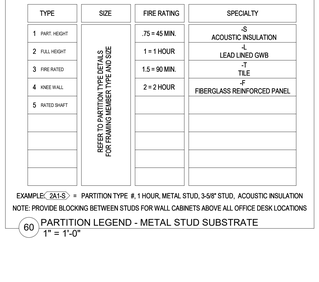
24 SECTION - INTEGRAL SHEET VINYL COVE BASE
3" = 1'-0"



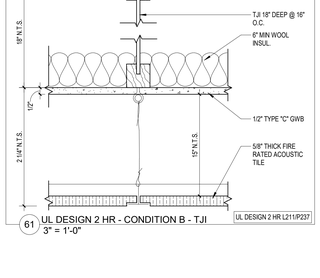
25 SECTION - VINYL FLOORING @ RUBBER COVE BASE
3" = 1'-0"



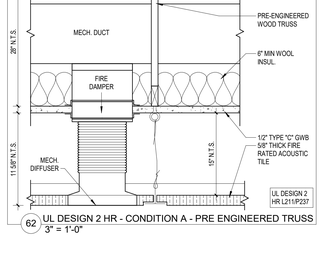
26 SECTION - PLASTIC PROTECTION PANEL @ INTEGRAL SHEET VINYL COVE BASE
3" = 1'-0"



30 SECTION - SHEET VINYL TO RUBBER FLOORING
3" = 1'-0"



31 SECTION - THRESHOLD @ EXTERIOR PAVE.
3" = 1'-0"

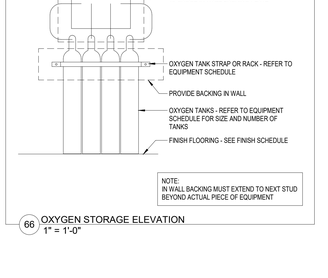


32 SECTION - EPOXY TO VINYL/TILE TRANSITION
6" = 1'-0"

33 SECTION - SHEET VINYL TO VINYL TILE TRANSITION
6" = 1'-0"

34 SECTION - MARBLE THRESHOLD (MT)
3" = 1'-0"

35 INTEGRAL VINYL FLOOR @ OUTSIDE CORNER
3" = 1'-0"



36 INTEGRAL VINYL FLOOR CORNER
3" = 1'-0"

TYPE	DESCRIPTION	STC	RATING	UL#	WIDTH
1A	3 5/8" METAL STUD PARTITION	-	-	-	4 7/8"
1B	6" METAL STUD PARTITION	-	-	-	6 3/4"
1C	OTHER SIZE STUD PARTITION AS NOTED	-	-	-	-
-S	PARTITION INDICATED WITH SOUND CONTROL	-	-	-	-
-L	PARTITION INDICATED WITH LEAD LINED GWB	-	-	-	VARIES
-T	PARTITION TYPE INDICATED WITH TILE	-	-	-	VARIES
-F	PARTITION TYPE INDICATED WITH FIBERGLASS REINFORCED PANEL	-	-	-	VARIES

50 PARTITION TYPE 1 - PARTIAL HEIGHT
1" = 1'-0"

TYPE	DESCRIPTION	STC	RATING	UL#	WIDTH
2A	3 5/8" METAL STUD PARTITION	40	-	U419	4 7/8"
2B	4 1/2" METAL STUD PARTITION	40	-	U419	5 3/4"
2C	6" METAL STUD PARTITION	40	-	U419	7 1/8"
-S	PARTITION TYPE INDICATED WITH SOUND CONTROL	-	-	-	-
-L	PARTITION TYPE INDICATED WITH LEAD LINED GWB	-	-	-	-
-T	PARTITION TYPE INDICATED WITH TILE	-	-	-	-
-F	PARTITION TYPE INDICATED WITH FIBERGLASS REINFORCED PANEL	-	-	-	-

51 PARTITION TYPE 2 - FULL HEIGHT
1" = 1'-0"

TYPE	DESCRIPTION	STC	RATING	UL#	WIDTH
3A	3 5/8" METAL STUD PARTITION	-	-	-	4 7/8"
3B	OTHER SIZE STUD PARTITION AS NOTED	-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-

52 PARTITION TYPE 3 - KNEE WALL
1" = 1'-0"

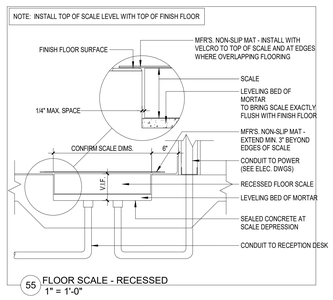
TYPE	DESCRIPTION	STC	RATING	UL#	WIDTH
4A	4" CH STUD SHAFT PARTITION	39	2HR	U415	5.5/8"

53 PARTITION TYPE 4 - RATED SHAFT
1" = 1'-0"

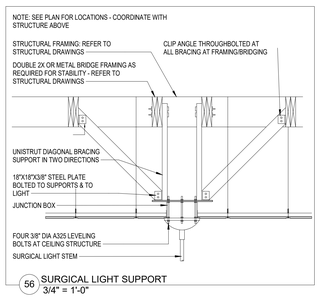
TYPE	DESCRIPTION	STC	RATING	UL#	WIDTH
5A	3 1/2" 25 GAUGE METAL STUD PARTITION @ 24" O.C.	50	2 HR	U419	5"
-S	PARTITION TYPE INDICATED WITH SOUND CONTROL				
-T	PARTITION TYPE INDICATED WITH TILE				
-F	PARTITION TYPE INDICATED WITH FIBERGLASS REINFORCED PANEL				

54 PARTITION TYPE 5 - FIRE RATED ASSEMBLY
1" = 1'-0"

45 SCAVENGER SYSTEM - SCHEMATIC DIAGRAM
1" = 1'-0"



55 FLOOR SCALE - RECESSED
1" = 1'-0"



56 SURGICAL LIGHT SUPPORT
3/4" = 1'-0"

PARTITION TYPE LEGEND

METAL STUD SUBSTRATE

TYPE	SIZE	FIRE RATING	SPECIALTY
1 PART. HEIGHT	REFER TO PARTITION TYPE DETAIL & FOR FRAMING MEMBER TYPE AND SIZE	.75 = 45 MIN.	S ACOUSTIC INSULATION
2 FULL HEIGHT		1 = 1 HOUR	L LEAD LINED GWB
3 FIRE RATED		1.5 = 90 MIN.	T TILE
4 KNEE WALL		2 = 2 HOUR	F FIBERGLASS REINFORCED PANEL
5 RATED SHAFT			

EXAMPLE: 2A1.5 = PARTITION TYPE 2, 1 HOUR, METAL STUD, 3-5/8" STUD, ACOUSTIC INSULATION

NOTE: PROVIDE BLOCKING BETWEEN STUDS FOR WALL CABINETS ABOVE ALL OFFICE DESK LOCATIONS

60 PARTITION LEGEND - METAL STUD SUBSTRATE
1" = 1'-0"

61 UL DESIGN 2 HR - CONDITION B - TJI
3" = 1'-0"

62 UL DESIGN 2 HR - CONDITION A - PRE ENGINEERED TRUSS
3" = 1'-0"

66 OXYGEN STORAGE ELEVATION
1" = 1'-0"

NO.	DESCRIPTION	DATE
	REVISION	

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	16 MAR 19
PROJECT NO:	1723

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

PARTITION TYPES & INTERIOR DETAILS

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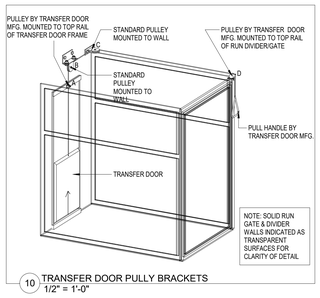
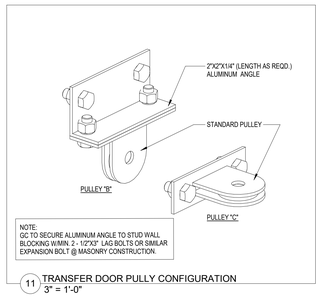
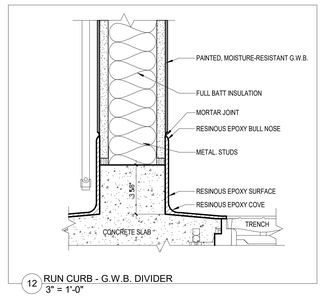
A7.00



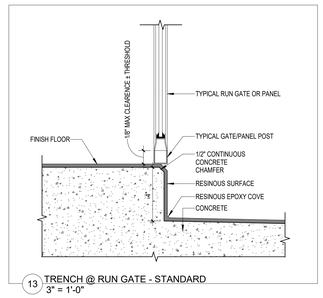
10 TRANSFER DOOR PULLY BRACKETS
1/2" = 1'-0"



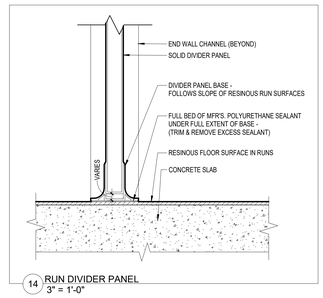
11 TRANSFER DOOR PULLY CONFIGURATION
3" = 1'-0"



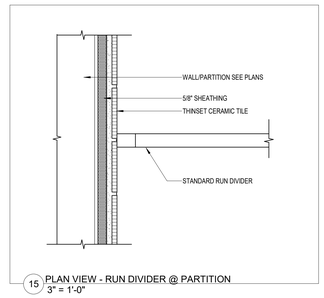
12 RUN CURB - G.W.B. DIVIDER
3" = 1'-0"



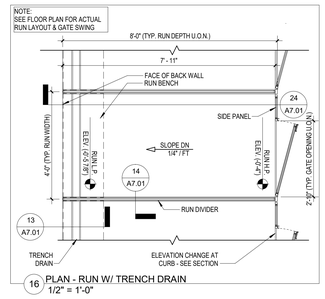
13 TRENCH @ RUN GATE - STANDARD
3" = 1'-0"



14 RUN DIVIDER PANEL
3" = 1'-0"



15 PLAN VIEW - RUN DIVIDER @ PARTITION
3" = 1'-0"



16 PLAN - RUN W/ TRENCH DRAIN
1/2" = 1'-0"

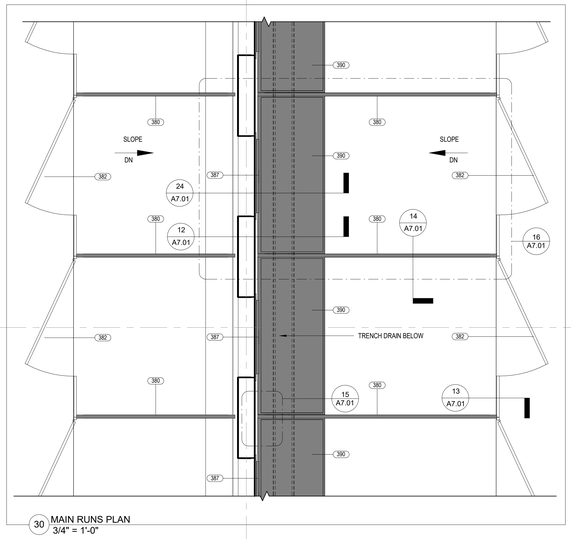
20 SECTION - TRENCH DRAIN – STRONGWELL
6" = 1'-0"

21 TRENCH DRAIN - CATCH BASIN
1" = 1'-0"

22 TRENCH DRAIN - CONFIGURATION
1" = 1'-0"

24 SECTION - RUN @ DOOR
1/2" = 1'-0"

25 ELEVATION - RUN GATE @ RUN DIVIDER PANEL
1/2" = 1'-0"



30 MAIN RUNS PLAN
3/4" = 1'-0"

C.7

GENERAL NOTE: DETAILS ARE GUIDELINES AND WILL VARY BY MANUFACTURER

NO.	DESCRIPTION	DATE
	REVISION	

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RUN DETAILS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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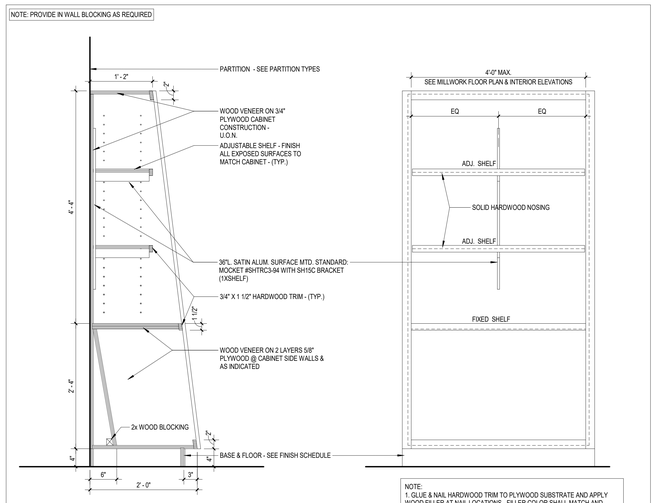
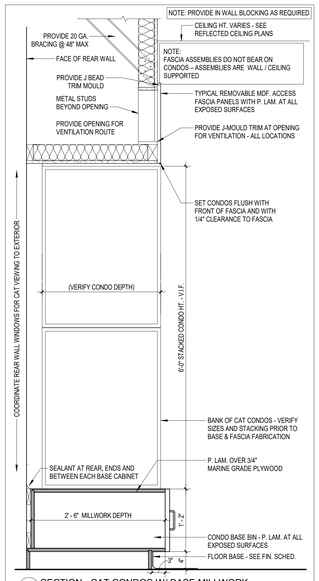
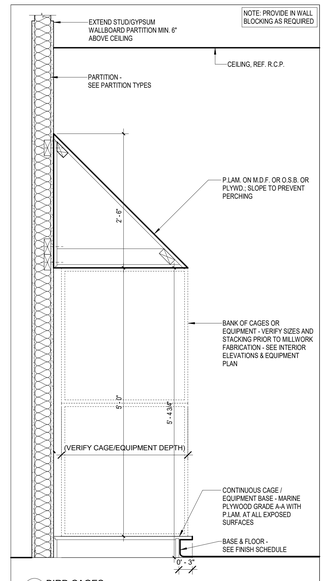


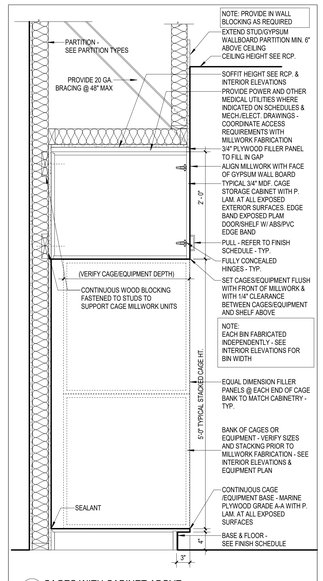
20 RETAIL DISPLAY SHELVING - SECTION & ELEVATION
1" = 1'-0"



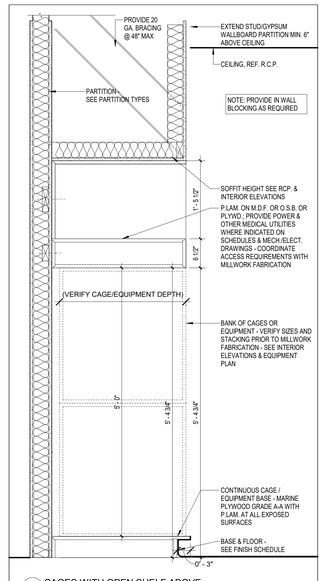
22 SECTION - CAT CONDOS W/ BASE MILLWORK
1" = 1'-0"



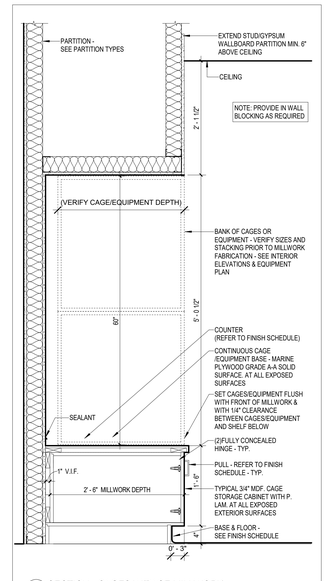
23 BIRD CAGES
1" = 1'-0"



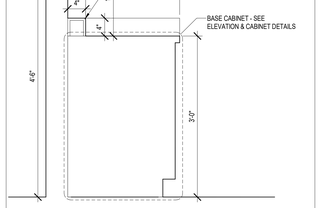
24 CAGES WITH CABINET ABOVE
1" = 1'-0"



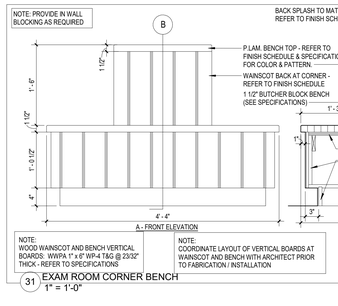
25 CAGES WITH OPEN SHELF ABOVE
1" = 1'-0"



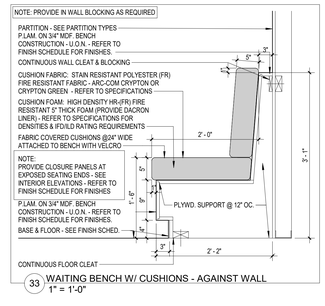
26 SECTION - CAGES W/BASE MILLWORK
1" = 1'-0"



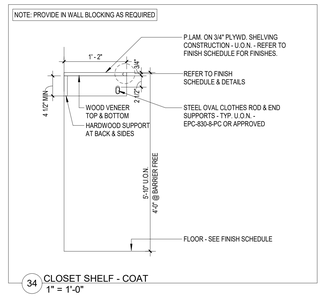
40 PHARMACY SHELVES AT BASE CABINET
1" = 1'-0"



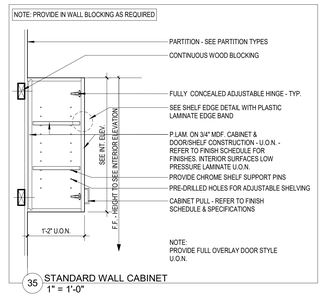
31 EXAM ROOM CORNER BENCH
1" = 1'-0"



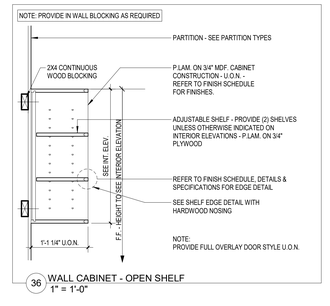
33 WAITING BENCH W/ CUSHIONS - AGAINST WALL
1" = 1'-0"



34 CLOSET SHELF - COAT
1" = 1'-0"

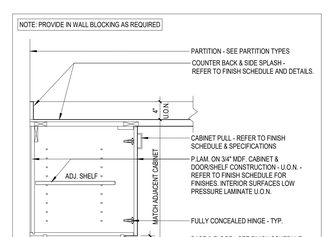


35 STANDARD WALL CABINET
1" = 1'-0"

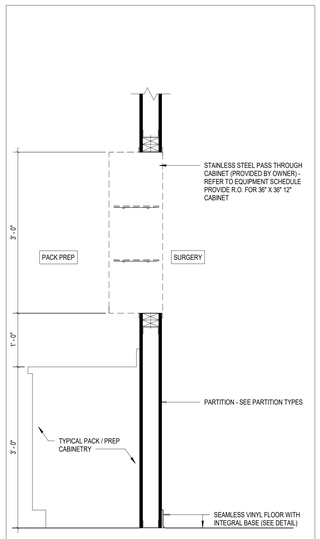


36 WALL CABINET - OPEN SHELF
1" = 1'-0"

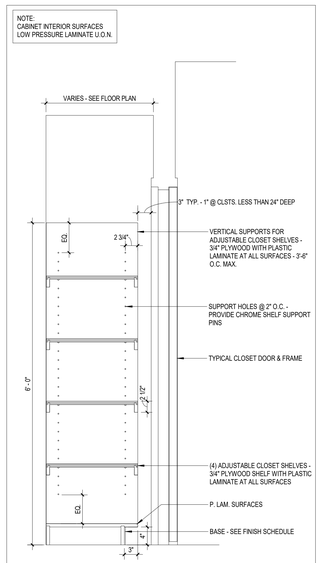
45 SINK BASE CABINET W/ FLIPPER DOOR
1" = 1'-0"



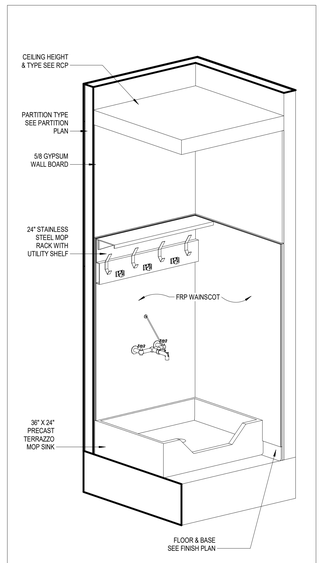
46 CORNER BASE CABINET
1" = 1'-0"



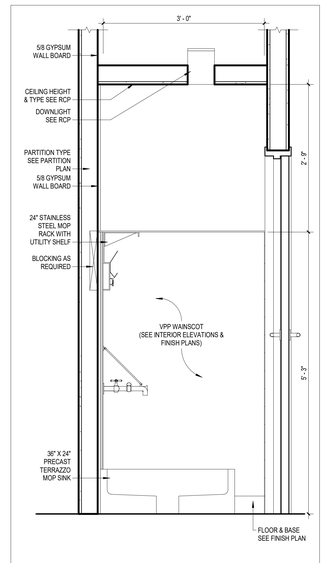
60 PASS THROUGH AT PACK PREP & SURGERY
1" = 1'-0"



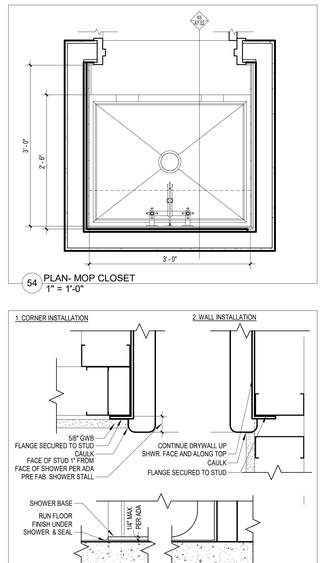
61 STORAGE - ADJUSTABLE SHELVES
1" = 1'-0"



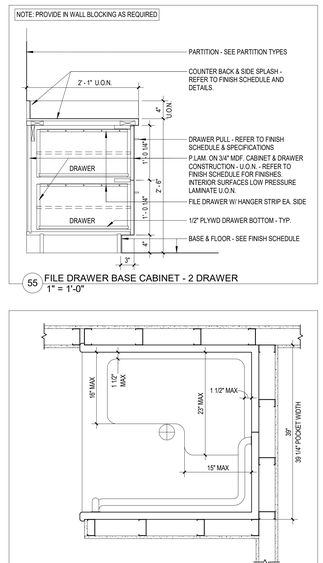
62 AXON - MOP CLOSET
1" = 1'-0"



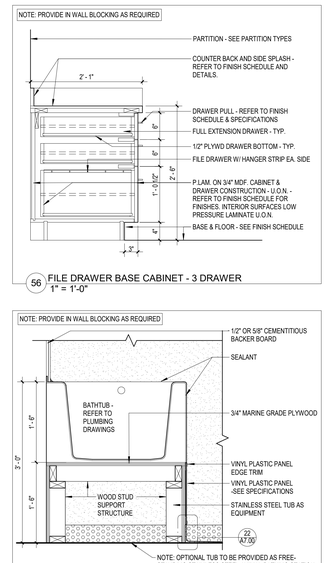
63 SECTION - MOP CLOSET
1" = 1'-0"



54 PLAN- MOP CLOSET
1" = 1'-0"



55 FILE DRAWER BASE CABINET - 2 DRAWER
1" = 1'-0"



56 FILE DRAWER BASE CABINET - 3 DRAWER
1" = 1'-0"

64 PLAN - ADA SHOWER STALL INSTALLATION
3" = 1'-0"

65 PLAN - ADA SHOWER STALL
1" = 1'-0"

66 SECTION - RAISED BATH TUB RM 150
1" = 1'-0"

NO.	REVISION DESCRIPTION	DATE

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Jefferson County Animal Care Facility
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DRAWN BY: Author
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DATE: 16 MAR 19
PROJECT NO: 1723

CONSTRUCTION SET ☐
PERMIT SET ☐
BID SET ■
PROGRESS SET ☐

INTERIOR DETAILS - CAGES, MILLWORK, & SPECIALTY

A7.02

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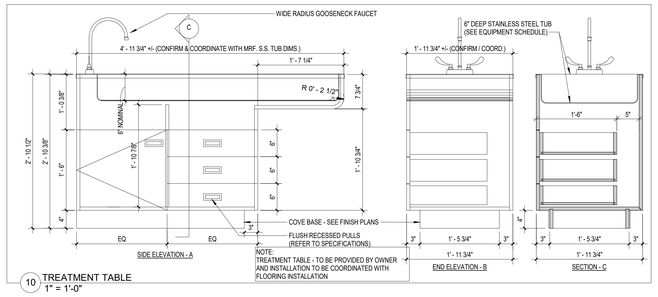
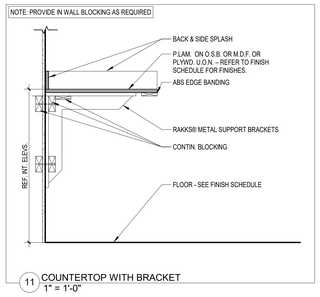
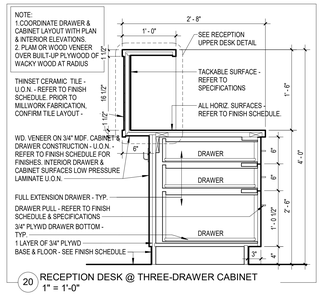


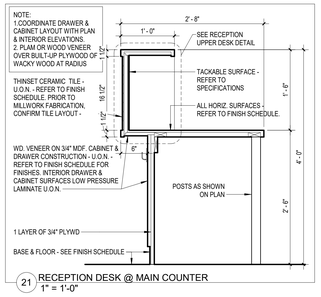
10 TREATMENT TABLE
1" = 1'-0"



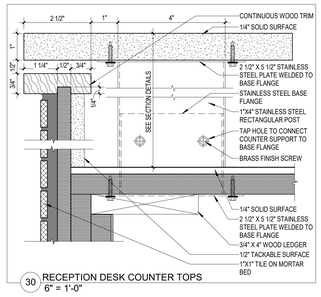
11 COUNTERTOP WITH BRACKET
1" = 1'-0"



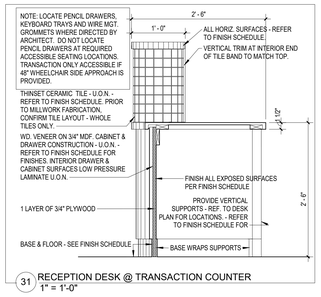
20 RECEPTION DESK @ THREE-DRAWER CABINET
1" = 1'-0"



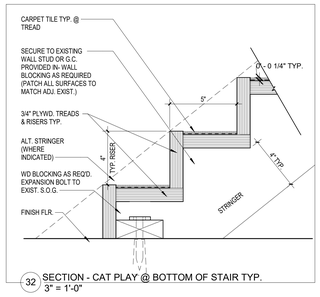
21 RECEPTION DESK @ MAIN COUNTER
1" = 1'-0"



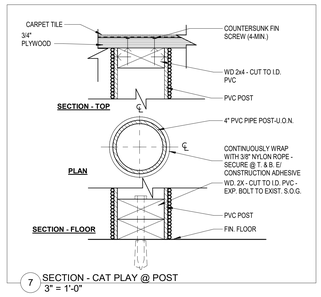
30 RECEPTION DESK COUNTER TOPS
6" = 1'-0"



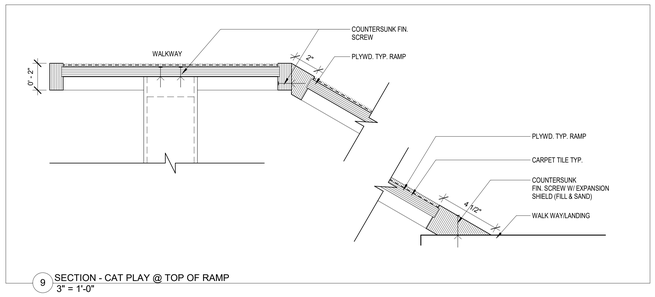
31 RECEPTION DESK @ TRANSACTION COUNTER
1" = 1'-0"



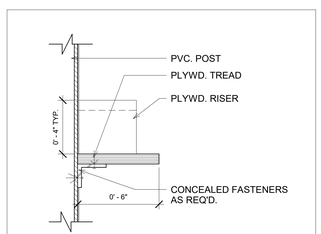
32 SECTION - CAT PLAY @ BOTTOM OF STAIR TYP.
3" = 1'-0"



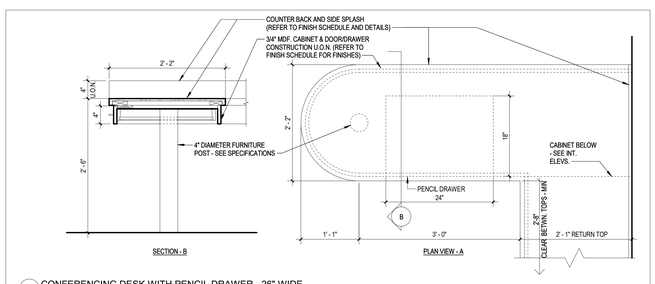
7 SECTION - CAT PLAY @ POST
3" = 1'-0"



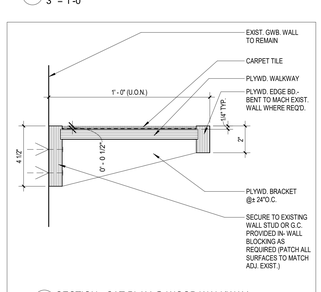
9 SECTION - CAT PLAY @ TOP OF RAMP
3" = 1'-0"



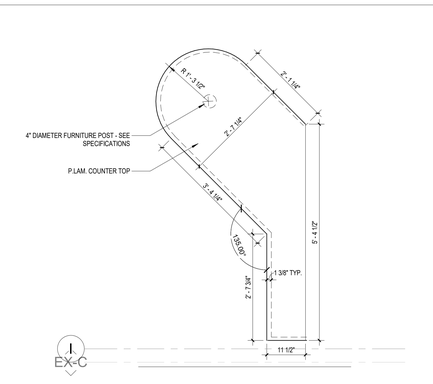
8 SECTION - CAT PLAY @ SPIRAL STAIR
3" = 1'-0"



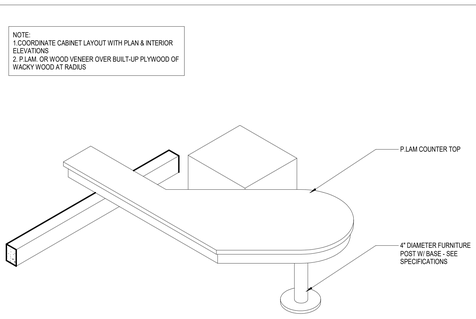
40 CONFERENCING DESK WITH PENCIL DRAWER - 26" WIDE
1" = 1'-0"



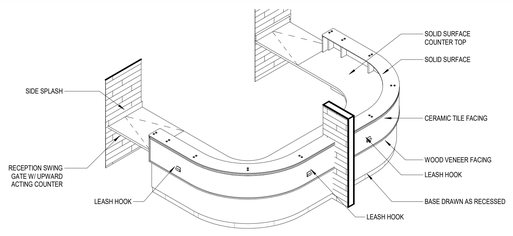
12 SECTION - CAT PLAY @ WOOD WALKWAY
3" = 1'-0"



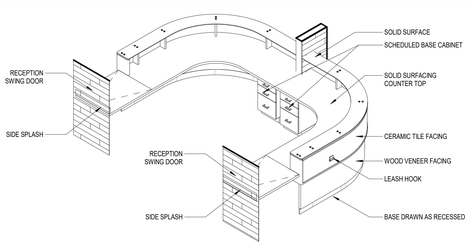
1 PLAN – SNC / SMC RECEPTION DESK
3/4" = 1'-0"



2 AXON - SNC / SMC RECEPTION DESK

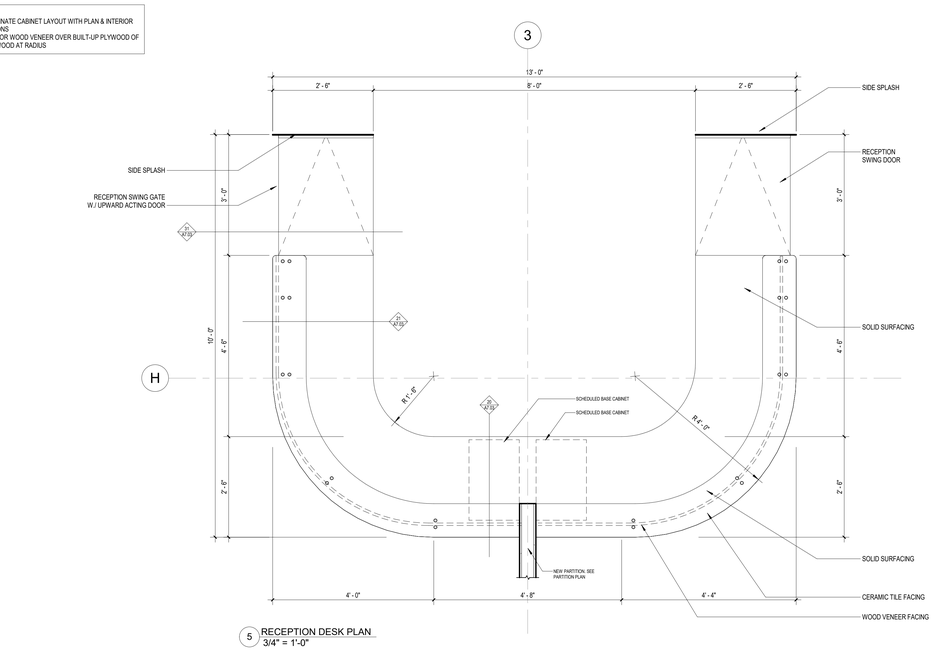


3 AXONOMETRIC - RECEPTION DESK - 1



4 AXONOMETRIC - RECEPTION DESK - 2

NOTE:
1.COORDINATE CABINET LAYOUT WITH PLAN & INTERIOR ELEVATIONS
2. P.LAM. OR WOOD VENEER OVER BUILT-UP PLYWOOD OF WACKY WOOD AT RADIUS



5 RECEPTION DESK PLAN
3/4" = 1'-0"

NO.	REVISION	DATE

ARCHITECTS SEAL

East Coast Office
97 Broadway
Bay Head, NJ 08742
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Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO.	1723

INTERIOR DETAILS - MILLWORK & SPECIALTY

PROGRESS SET ☐ | BID SET ■ | PERMIT SET ☐ | CONSTRUCTION SET ☐

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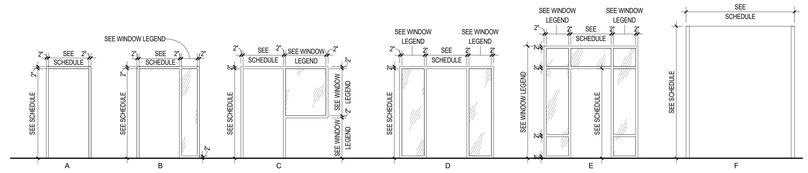
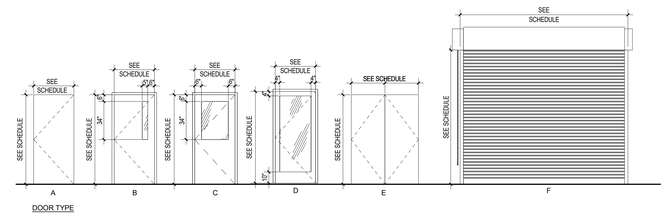
A7.03

DOOR SCHEDULE

Tag	Name	Rooms: Size Width	Size Height	Size Depth	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Head	Jamb Detail	Threshold Detail	Threshold Material	Associated Glazing Type	Associated Opening Rating	Hardware Set	Notes
100	ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS)	3' - 0"	6' - 10"	0' - 1 3/4"	D	AL/GL	ADZ	D	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
101	ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)	3' - 0"	6' - 10"	0' - 1 3/4"	D	AL/GL	ADZ	D	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
102	WAITING AREA (ADOPTERS & RECLAIMERS)	3' - 0"	6' - 10"	0' - 1 3/4"	D	AL/GL	ADZ	D	AL	ADZ	X	X	X	AL	TEMP			
103	ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)	3' - 0"	6' - 10"	0' - 1 3/4"	D	AL/GL	ADZ	D	AL	ADZ	X	X	X	AL	TEMP			
105	BEHAVIOR ASSESSMENT ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
106	ADMISSIONS EXAM ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
107	TEMP. CAT HOLDING	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	.75 HR		
108	TEMP. DOG HOLDING	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	.75 HR		
110	SNC/SMC ENTRY/EXIT VESTIBULE	3' - 0"	6' - 10"	0' - 1 3/4"	C	AL/GL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
111	SNC/SMC WAITING AREA	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00			TEMP			
112A	SNC/SMC EXAM ROOM #1	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
112B	SNC/SMC EXAM ROOM #1	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
113A	SNC/SMC EXAM ROOM #2	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
113B	SNC/SMC EXAM ROOM #2	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
114	MEDICATION DISPENSING / LAB	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
115	SNC/SMC TREATMENT & SURGERY PREP	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
116	SNC/SMC STAFF UNISEX RESTROOM	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	34/A7.00	-	-			
117	JAN.	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
118	DONATIONS STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	1.5 HR		
119	SNC/SMC TREATMENT & SURGERY PREP	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	C	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
120	LAB WASTE STORAGE	5' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	.75 HR		
121	RADIOLOGY ROOM (DIGITAL)	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			LEAD LINED
124	SNC/SMC SURGERY ROOM	3' - 6"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
125	SNC/SMC TREATMENT & SURGERY PREP	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	.75 HR		
126	POST-OP RECOVERY AREA	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
127	FIELD SUPERVISOR OFFICERS	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	TEMP	1.5 HR		
128	ANIMAL CONTROL OFFICERS	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	TEMP	1.5 HR		
129	CHANGING ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	1.5 HR		
130	CHANGING ROOM (ACCESSIBLE)	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	1.5 HR		
131	DEPARTURE CLOSET	5' - 0"	6' - 10"	0' - 1 3/4"	E	AL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	-			
132	INFECTIOUS ISOLATION DOG HOUSING - EXERCISE RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP			
133	INFECTIOUS ISOLATION DOG HOUSING - RESTING RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP			
134	INFECTIOUS ISOLATION - CANINE CAGES	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
135	QUARANTINE / BITE - CANINE CAGES	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
136	QUARANTINE / BITE DOG HOUSING - RESTING RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP			
137	QUARANTINE / BITE DOG HOUSING - EXERCISE RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP	1.5 HR		
138	OXYGEN CLOSET	6' - 0"	6' - 10"	0' - 1 3/4"	E	AL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL				
141	CLEAN. SUPP. STOR. / MOP	6' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	1.5 HR		
142A	EVIDENCE STORAGE	5' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	1.5 HR		
142B	AC STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
143	STAFF RESTROOM W/ SHOWER (MALE)	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	34/A7.00	-	-			
144	STAFF RESTROOM W/ SHOWER (FEMALE)	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	34/A7.00	-	-			
146A	FILE ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
146B	FILE ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
148	ELEV. CONTROL ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
149	COMP. SERV. ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	1.5 HR		
151	LIQ. SUCT. / SCAV	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
152	POWER WASH PUMP ROOM (SMT)	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
153	PUPPY WELPING ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
154	ANIMAL CONTROL (AC) OFFICER (JT)	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	33/A7.00			1.5 HR		
155	ADMINISTRATIVE ASSISTANT	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	33/A7.00			1.5 HR		
156	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
157A	ENCLOSED EXERCISE YARD A	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	C	HM	PTD	35/A8.00	45/A8.00	30/A7.00	AL				
157B	ENCLOSED EXERCISE YARD A	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
158	ENCLOSED EXERCISE YARD B	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	XX	XX	TEMP			
159	ADOPTABLE DOG HOUSING - CANINE CAGES	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP	1.5 HR		
160	DOG BONDING	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP			
161	STRAY & SURRENDER DOG HOUSING – CANINE CAGES	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
162	JAN.	2' - 6"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
163A	STRAY & SURRENDER DOG HOUSING - EXERCISE RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
163B	STRAY & SURRENDER DOG HOUSING - EXERCISE RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP	1.5 HR		
164A	STRAY & SURRENDER DOG HOUSING - RESTING RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
164B	STRAY & SURRENDER DOG HOUSING - RESTING RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP	1.5 HR		
165A	ADOPTABLE DOG HOUSING - RESTING RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
165B	ADOPTABLE DOG HOUSING - RESTING RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP	1.5 HR		
166A	ADOPTABLE DOG HOUSING - EXERCISE RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
166B	ADOPTABLE DOG HOUSING - EXERCISE RUNS	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP	1.5 HR		
167	DOG BONDING	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP			
169	FOOD PREP KITCHEN (DOGS)	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	TEMP			BI-SWING
170	GENERAL LAUNDRY STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00					
171	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD				AL	-			
172	ADOPTION COUNSELING ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	-			
173	JAN	2' - 6"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
174	DOG SUPPLIES STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	-			
175A	PUBLIC CORRIDOR	4' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD			30/A7.00	VINYL				
175B	PUBLIC CORRIDOR	4' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD			30/A7.00	VINYL				
176	PET RETAIL ALCOVE	9' - 6"	9' - 6"	0' - 1 3/4"	F	SC	PLAM	F	HM	PTD	35/A8.00	45/A8.00	-	-	-			
177	EXISTING MALE RESTROOM (N.I.C.)	3' - 0"	7' - 0"	0' - 1 3/8"														EXISTING
178	EXISTING FEMALE RESTROOM (N.I.C.)	3' - 0"	7' - 0"	0' - 1 3/8"														EXISTING
179A	MULTI-PURPOSE ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
179B	MULTI-PURPOSE ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
179C	MULTI-PURPOSE ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	D	AL/GL	ADZ	E	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
179D	MULTI-PURPOSE ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	D	AL/GL	ADZ	E	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
180	MULTI PURPOSE STORAGE	6' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
181	PUBLIC COAT CLOSET	6' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	-			
183	MECHANICAL / AHU	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	-	1.5 HR		
184A	MECH. RM / ELEC/ UTILITIES	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	.75 HR		
184B	MECH. RM / ELEC/ UTILITIES	6' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	36/A8.00	46/A8.00	31/A7.00	AL				
185	CLEANING SUPPLIES STOR. / JAN.	6' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-				
186	RETAIL PRODUCT STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
200	KITTEN DISPLAY ROOM	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	E	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
201	LONG TERM DOCUMENT STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	AL	-			
202	MOP	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
203	SUPP. STOR.	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
204	RESPIRATORY ISOLATION / INFECTIOUS CAT HOUSING	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
205	GEN. ISOLATION / INFECTIOUS CAT HOUSING	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
206	SUPP. STOR	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
207	BULK BEDDING STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
208	CAT BATHING	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
209A	ADOPTABLE CAT HOUSING	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
209B	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
210	CAT BONDING / GET ACQUAINTED	2' - 10 1/32"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
211	ADOPTABLE CAT HOUSING	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
212	STRAY / SURRENDER CAT HOUSING	2' - 11 3/4"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	-			
213	KITTY LITTER STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
214A	FOOD PREP. KITCHEN	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
214B	FOOD PREP. KITCHEN	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
215	CAT FOOD STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	33/A7.00	-	-			
216	EXOTIC ANIMAL HOUSING	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	-			
217	STORAGE	5' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
218	STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
219	PUBLIC CORRIDOR	2' - 11"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	-			
220	MECHANICAL / AHU	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
221	FOOD BOWL WASH AREA	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
222	CAT SUPPLIES STORAGE	3' - 0"	6' - 10"	0' - 1 3/4"	A	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
223	TEL. DATA CLOSET	6' - 0"	6' - 10"	0' - 1 3/4"	E	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
C-2	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
C-3A	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
C-3B	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	AL/GL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
C-3C	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
C-3D	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
C-4	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
C-6A	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
C-6B	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	.75 HR		
C-6C	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	AL/GL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
C-7A	AC STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-	.75 HR		
C-7B	AC STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	AL/GL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
C-7C	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	.75 HR		
C-8A	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	B	HM	PTD	35/A8.00	45/A8.00	32/A7.00	AL	TEMP			
C-9B	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	AL/GL	ADZ		AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
C-10A	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"														
C-10B	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	C	AL/GL	ADZ	A	AL	ADZ	36/A8.00	46/A8.00	31/A7.00	AL	TEMP/INS			
C-11	PUBLIC CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
C-12	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	D	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP			
EL-1	H.C. ELEVATOR	4' - 0"	7' - 0"			SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
EL-1	H.C. ELEVATOR	4' - 0"	7' - 0"			SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	-			
S-1A	STAFF CORRIDOR	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
S-1B	EGRESS STAIRS	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
S-2A	EGRESS STAIRS	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		
S-2B	EGRESS STAIRS	3' - 0"	6' - 10"	0' - 1 3/4"	B	SC	PLAM	A	HM	PTD	35/A8.00	45/A8.00	-	-	TEMP	1.5 HR		



DOOR FRAME TYPE



DOOR TYPE

DOOR TYPE LEGEND
1/4" = 1'-0"

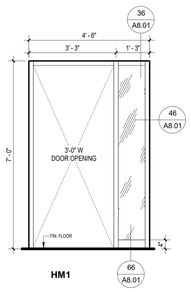
DOOR LEGEND NOTES

NOTE: REFER TO THE ELEVATIONS/SECTIONS FOR DOOR GLAZING CONFIGURATIONS.
THE INTERIOR ELEVATIONS/SECTIONS TAKE PRECEDENCE OVER THE DOOR TYPES SHOWN IN THE SCHEDULE.
* SEE FRAME TYPES ON A-800, 8.02 & 8.03 DETAILS FOR FRAMES AS REFERENCED IN THE DOOR SCHEDULE ABOVE.

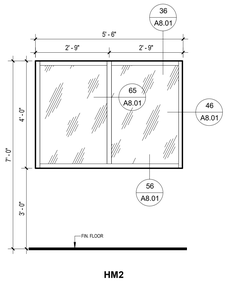
1. FIRE DOORS MUST HAVE LABEL ATTACHED.
2. FIRE DOOR FRAMES MUST HAVE EITHER AN ATTACHED OR EMBOSSED LABEL.
3. FIRE DOORS MUST BE SELF-LATCHING WITH A LABELED AUTOMATIC LATCHING DEVICE TO ENGAGE THE STRIKE.
4. FIRE DOOR MUST BE SELF-CLOSING.
5. IF A FIRE DOOR IS TO BE HELD OPEN, IT MUST BE EQUIPPED WITH A LISTED ELECTROMAGNETIC RELEASE DEVICE ACTIVATED BY ELECTRONIC DETECTORS THAT SENSE SMOKE AND/OR THE PRODUCTS OF COMBUSTION.
6. FIRE DOORS MUST BE FREE OF ANY OBSTRUCTIONS WHICH COULD PREVENT THE DOOR FROM OPERATING PROPERLY, i.e. WEDGE DOOR STOPS, CHAINS, HOOK BACKS ETC.
7. ONLY LISTED FIRE DOOR HARDWARE SHALL BE USED. DOOR LABELING SHALL SPECIFICALLY STATE THAT THE DOOR HAS BEEN PROPERLY REINFORCED FOR FIRE EXIT DEVICES. STANDARD FIRE TESTING AND PANIC LOAD TESTING SHALL APPLY.
8. FIRE DOORS MUST HAVE STEEL BEARING-TYPE HINGES. (EXCEPTION: NON-BEARING PLAIN STEEL)
9. ALL DOORS TO BE PROVIDED W/ PNEUMATIC CLOSURE. REFERENCE SPECIFICATION SECTION FOR HARDWARE ALLOWANCE

LEGEND

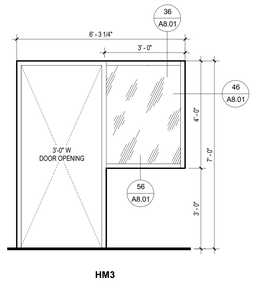
MATERIALS	FINISH TYPE	GLAZING TYPE
AL - ALUMINUM	ADZ - ANODIZED	FBR - FIBER GLASS
GL - GLASS LIGHT	NAT - NATURAL	FRST - FROSTED GLASS
FBRGL - FIBERGLASS	PTD - PAINTED	F.R. - FIRE RATED
S.C. - SOLID CORE	F.R. - FIRE RATED	WR - WIRE
S.S. - STAINLESS STEEL	WR - WIRE	INS. - INSULATED GLAZING
STF. - STORE FRONT		IR - IMPACT RESIST. TEMP.
HM - HOLLOW METAL		TEMPLL - LEAD LINED TEMP.
WD - WOOD		TEMP. - TEMPERED GLASS
CLWD - CLAD - WOOD		
LLW - LEAD LINED WD		
LPDL - LOW PRES



HM1



HM2



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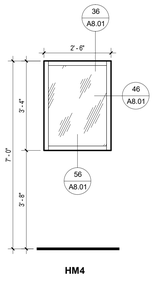

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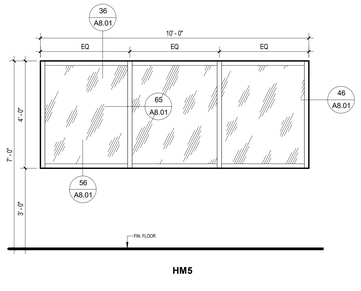

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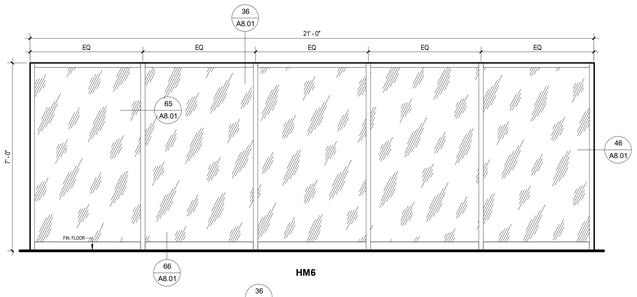

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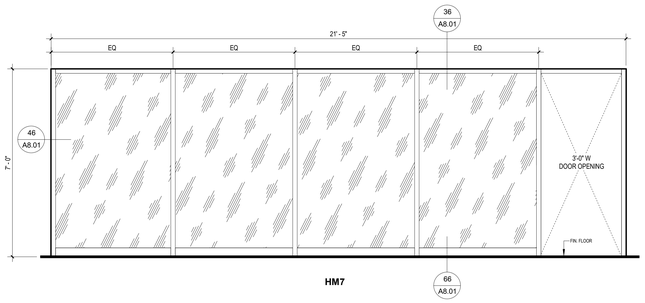

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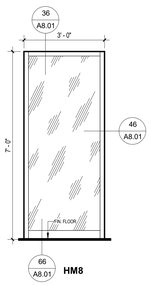

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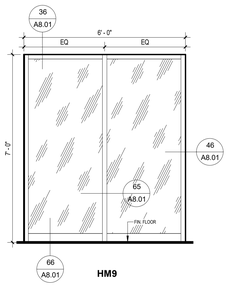

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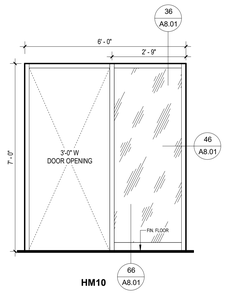
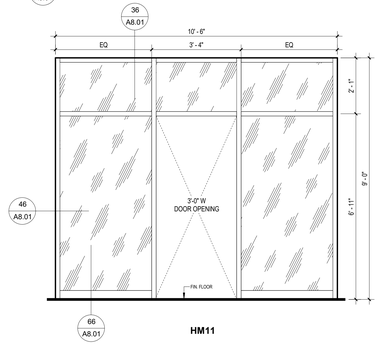
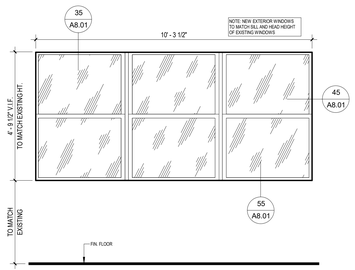


HM10

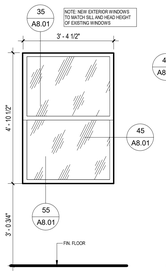


HM11

HOLLOW METAL TYPES



W1



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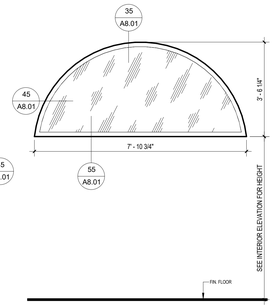

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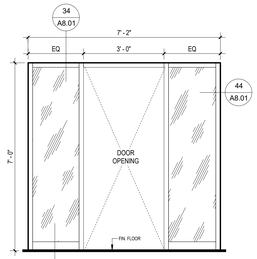
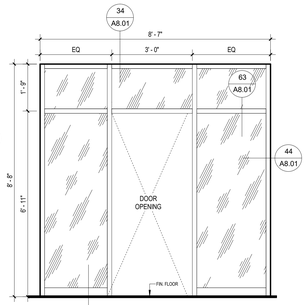
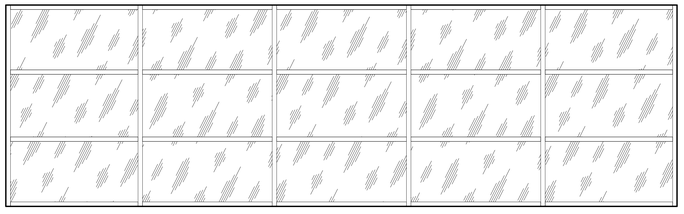


SF1



SF2

W1



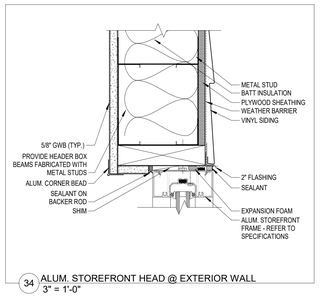
K1

KALWALL TYPES

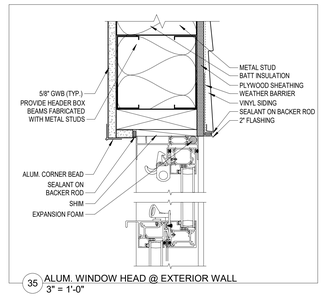
STOREFFRONT TYPES

WINDOW SCHEDULE

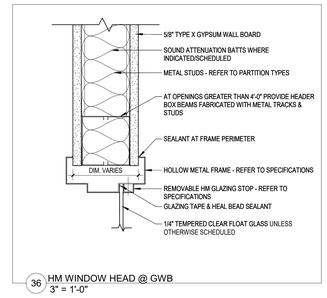
TAG	LOCATION	WINDOW MFG	WINDOW MODEL	HEIGHT	WIDTH	FRAME & FINISH MATRL.	Detail HEAD	Detail JAMB	Detail SILL	GLAZING TYPE	RATING	NOTES
EW1	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
EW2	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
EW3	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
EW4	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
EW5	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
EW6	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
EW7	EXTERIOR	-	-	-	-	-	-	-	-	-	-	EXISTING
HM1	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
HM2	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	56/A8.01	TEMP		
HM3	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	56/A8.01	TEMP		
HM4	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	56/A8.01	TEMP		
HM5	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	56/A8.01	TEMP		
HM6	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
HM7	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
HM8	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
HM9	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
HM10	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
HM11	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	66/A8.01	TEMP		
K1	EXTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	HM	36/A8.01	46/A8.01	56/A8.01	TEMP/INS		
SF1	EXTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	ALUM STOREFRONT	34/A8.01	44/A8.01	54/A8.01	TEMP/INS		
SF1A	INTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	ALUM STOREFRONT	34/A8.01	44/A8.01	53/A8.01	TEMP/INS		
SF2	EXTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	ALUM STOREFRONT	34/A8.01	44/A8.01	54/A8.01	TEMP/INS		
W1	EXTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	ALUM	35/A8.01	45/A8.01	53/A8.01	TEMP/INS		
W2	EXTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	ALUM	35/A8.01	45/A8.01	53/A8.01	TEMP/INS		
W3	EXTERIOR	R.T.S.	R.T.S.	SEE LEGEND	SEE LEGEND	ALUM	35/A8.01	45/A8.01	53/A8.01	TEMP/INS		



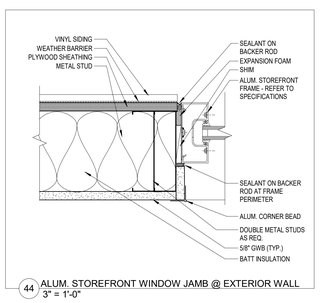
34 ALUM. STOREFRONT HEAD @ EXTERIOR WALL
3" = 1'-0"



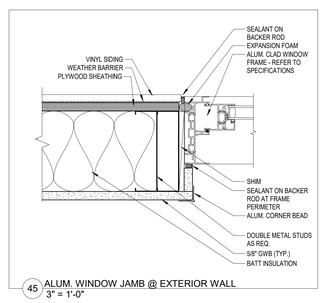
35 ALUM. WINDOW HEAD @ EXTERIOR WALL
3" = 1'-0"



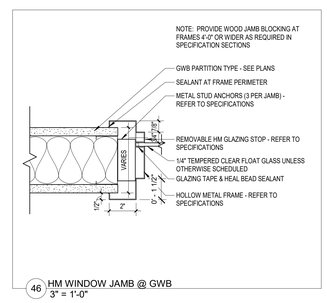
36 HM WINDOW HEAD @ GWB
3" = 1'-0"



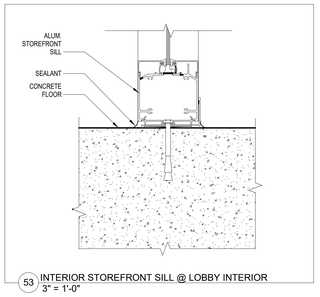
44 ALUM. STOREFRONT WINDOW JAMB @ EXTERIOR WALL
3" = 1'-0"



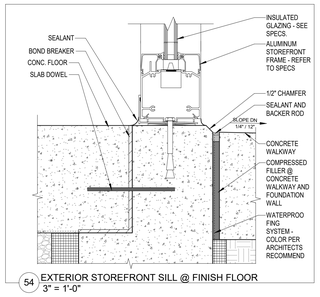
45 ALUM. WINDOW JAMB @ EXTERIOR WALL
3" = 1'-0"



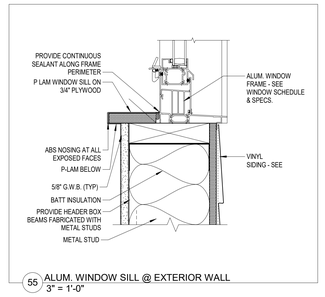
46 HM WINDOW JAMB @ GWB
3" = 1'-0"



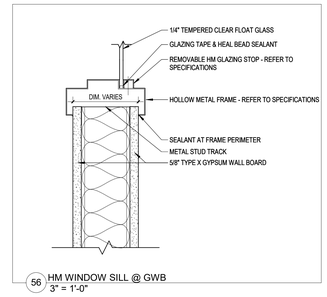
53 INTERIOR STOREFRONT SILL @ LOBBY INTERIOR
3" = 1'-0"



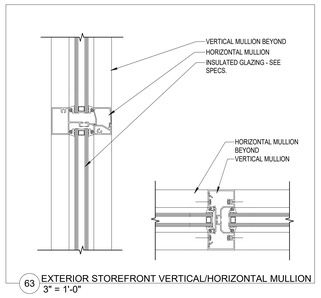
54 EXTERIOR STOREFRONT SILL @ FINISH FLOOR
3" = 1'-0"



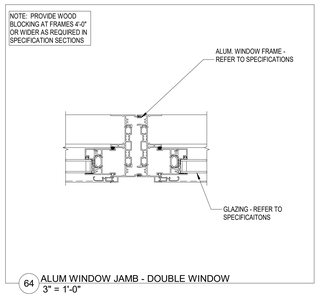
55 ALUM. WINDOW SILL @ EXTERIOR WALL
3" = 1'-0"



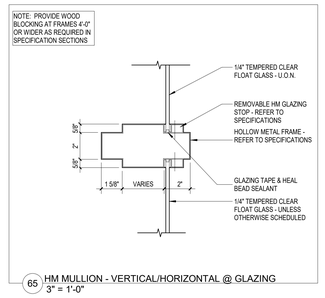
56 HM WINDOW SILL @ GWB
3" = 1'-0"



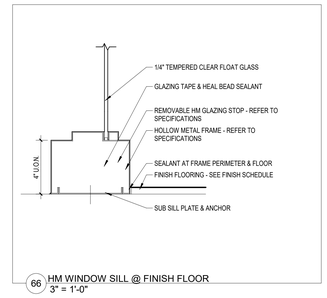
63 EXTERIOR STOREFRONT VERTICAL/HORIZONTAL MULLION
3" = 1'-0"



64 ALUM WINDOW JAMB - DOUBLE WINDOW
3" = 1'-0"



65 HM MULLION - VERTICAL/HORIZONTAL @ GLAZING
3" = 1'-0"



66 HM WINDOW SILL @ FINISH FLOOR
3" = 1'-0"

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23101 Moulton Pkwy #106
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F: 949.716.9959

NO.	REVISION DESCRIPTION	DATE

ARCHITECTS SEAL

Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

WINDOW SCHEDULE AND DETAILS

DRAWN BY: Author
CHECKED BY: Checker
SCALE:
DATE: 15 MAR 19
PROJECT NO. 1723

CONSTRUCTION SET ☐
PERMIT SET ☐
BID SET ■
PROGRESS SET ☐

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A8.01

FINISH SCHEDULE

No.	Room Name	Floor	Base	Wainscot		Trim	Wall Finish				Millwork			Ceiling		Notes
				Material	Height		North	South	East	West	Cabt	C. Top	Pull	Material	Height	
100	ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS)	EFM-1	VB-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
101	ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)	EFM-1	VB-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
102	WAITING AREA (ADOPTERS & RECLAIMERS)	SV-1	VB-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
103	WAITING AREA (SURRENDERS & FINDERS)	SV-1	VB-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
104	RECEPTION AREA	SV-1	VB-2				P-1	P-1	P-1	P-1	PL-1	PL-6	WIRE	WC-1	REF. RCP	
105	BEHAVIOR ASSESSMENT ROOM	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-1			ACT-1	REF. RCP	
106	ADMISSIONS EXAM ROOM	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
107	TEMP. CAT HOLDING	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
108	TEMP. DOG HOLDING	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
109	RECEPTION AREA	SV-1	VB-2				P-1	P-1	P-1	P-1				WC-1	REF. RCP	
110	SNC/SMC ENTRY/EXIT VESTIBULE	EFM-1	VB-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
111	SNC/SMC WAITING AREA	SV-1	VB-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
112	SNC/SMC EXAM ROOM #1	SV-1	VB-2				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
113	SNC/SMC EXAM ROOM #2	SV-1	VB-2				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
115	MEDICATION DISPENSING / LAB	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
116	SNC/SMC STAFF UNISEX RESTROOM	PT-1	CT-2				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
117	JAN.	SV-1		FRP-1	6'-0"		P-2	P-2	P-2	P-2				P-3	REF. RCP	
118	DONATIONS STORAGE	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
119	SNC/SMC MEDICAL OFFICES	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
120	LAB WASTE STORAGE	SV-1	VB-1				P-2	P-2	P-2	P-2				P-3	REF. RCP	
121	RADIOLOGY ROOM (DIGITAL)	SV-1	VB-1				P-1	P-1	P-1	P-1				ACT-1	REF. RCP	
122	PRE-OP HOLDING AREA	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
123	PACK-PREP AREA	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
124	SNC/SMC SURGERY ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
125	SNC/SMC TREATMENT & SURGERY PREP	SV-1	VB-1				P-1	P-1	P-1	P-1	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
126	POST-OP RECOVERY AREA	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
127	FIELD SUPERVISOR OFFICERS	VCT-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
128	ANIMAL CONTROL OFFICERS	VCT-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
129	CHANGING ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
130	CHANGING ROOM (ACCESSIBLE)	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
131	DEPARTURE CLOSET	CONC.	–				P-2	P-2	P-2	P-2				P-3	REF. RCP	
132	INFECTIOUS ISOLATION DOG HOUSING - EXERCISE RUNS	RS-1	RS-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
133	INFECTIOUS ISOLATION DOG HOUSING - RESTING RUNS	RS-1	RS-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
134	INFECTIOUS ISOLATION - CANINE CAGES	RS-1	RS-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
135	QUARANTINE / BITE - CANINE CAGES	RS-1	RS-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
136	QUARANTINE / BITE DOG HOUSING - RESTING RUNS	RS-1	RS-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
137	QUARANTINE / BITE DOG HOUSING - EXERCISE RUNS	RS-1	RS-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
138	OXYGEN CLOSET	CONC.	–				P-2	P-2	P-2	P-2				P-3	REF. RCP	
139	DOG BATHING AREA	RS-1	RS-1	CT-3	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
140	CLERICAL AREA	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
141	CLEAN. SUPP. STOR. / MOP	SV-1	–	FRP-1	6'-0"		P-2	P-2	P-2	P-2		PL-2		ACT-1	REF. RCP	
142	EVIDENCE STORAGE	SV-1	VB-1				P-2	P-2	P-2	P-2				P-3	REF. RCP	
143	STAFF RESTROOM W/ SHOWER (MALE)	PT-1		CT-2	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
144	STAFF RESTROOM W/ SHOWER (FEMALE)	PT-1		CT-2	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
145	STAFF & VOLUNTEERS BREAK ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
146	FILE ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
147	FOOD PREP KITCHEN (DOGS)	SV-1	-	FRP-1	6'-0"		P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
148	ELEV. CONTROL ROOM	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
149	COMP. SERV. ROOM	CONC.	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
150	CLERICAL AREA	SV-1	SV-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
151	LIQ. SUCT. / SCAV	SV-1	VB-1				P-2	P-2	P-2	P-2				P-3	REF. RCP	
152	POWER WASH PUMP ROOM (SMT)	CONC.	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
153	PUPPY WELPING ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
154	ANIMAL CONTROL (AC) OFFICER (JT)	VCT-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
155	ADMINISTRATIVE ASSISTANT	VCT-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
156	SHELTER ATTENDANTS	SV-1	SV-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
157	ENCLOSED EXERCISE YARD A	R-1	VB-3				P-2	P-2	P-2	P-2				GL. FIBER	REF. RCP	
158	ENCLOSED EXERCISE YARD B	R-1	VB-3				P-2	P-2	P-2	P-2				GL. FIBER	REF. RCP	
159	ADOPTABLE DOG HOUSING - CANINE CAGES	RS-1	RS-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
160	DOG BONDING	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
161	STRAY & SURRENDER DOG HOUSING – CANINE CAGES	RS-1	RS-1				P-2	P-2	P-2	P-2				GL. FIBER	REF. RCP	
162	JAN.	CONC.	-	FRP-1	6'-0"		P-2	P-2	P-2	P-2				P-3	REF. RCP	
163	STRAY & SURRENDER DOG HOUSING - EXERCISE RUNS	RS-1	RS-1	CT-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
164	STRAY & SURRENDER DOG HOUSING - RESTING RUNS	RS-1	RS-1	CT-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
165	ADOPTABLE DOG HOUSING - RESTING RUNS	RS-1	RS-1	CT-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
166	ADOPTABLE DOG HOUSING - EXERCISE RUNS	RS-1	RS-1	CT-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
167	DOG BONDING	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
168	FOOD BOWL WASH AREA	SV-1	VB-1	FRP-1	6'-0"		P-2	P-2	P-2	P-2				P-3	REF. RCP	
169	DOG FOOD STORAGE	SV-1	–				P-2	P-2	P-2	P-2				P-3	REF. RCP	
170	GENERAL LAUNDRY STORAGE	SV-1	–				P-2	P-2	P-2	P-2				P-3	REF. RCP	
171	GENERAL SUPPLIES STORAGE	VCT-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
172	ADOPTION COUNSELING ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
173	JAN	CONC.	VB-1	FRP-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
174	DOG SUPPLIES STORAGE	VCT-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
175	GENERAL LAUNDRY ROOM	RS-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
176	PET RETAIL ALCOVE	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
177	EXISTING MALE RESTROOM (N.I.C.)	CONC.	CT-2	CT-2	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
178	EXISTING FEMALE RESTROOM (N.I.C.)	CONC.	CT-2	CT-2	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
179	MULTI-PURPOSE ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
180	MULTI PURPOSE STORAGE	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
181	PUBLIC COAT CLOSET	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
182	EQUIPMENT AREA	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
183	MECHANICAL / AHU	CONC.	VB-1				P-2	P-2	P-2	P-2				P-3	REF. RCP	
184	MECH. RM / ELEC/ UTILITIES	CONC.	–				P-2	P-2	P-2	P-2				-	-	
185	CLEANING SUPPLIES STOR. / JAN.	SV-1	SV-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
186	RETAIL PRODUCT STORAGE	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
188	Room	SV-1														
200	KITTEN DISPLAY ROOM	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
201	LONG TERM DOCUMENT STORAGE	VCT-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
202	MOP	SV-1	VB-1	FRP-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
203	SUPP. STOR.	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
204	RESPIRATORY ISOLATION / INFECTIOUS CAT HOUSING	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
205	GEN. ISOLATION / INFECTIOUS CAT HOUSING	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
206	SUPP. STOR	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
207	BULK BEDDING STORAGE	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
208	CAT BATHING	SV-1	CT-3	CT-3	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
209	ADOPTABLE CAT HOUSING	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
210	CAT BONDING / GET ACQUAINTED	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
211	CAT BONDING / GET ACQUAINTED	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
212	STRAY / SURRENDER CAT HOUSING	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
213	KITTY LITTER STORAGE	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
214	FOOD PREP. KITCHEN	SV-1	VB-1	FRP-1	6'-0"		P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
215	CAT FOOD STORAGE	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
216	EXOTIC ANIMAL HOUSING	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
217	STORAGE	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
218	STORAGE	SV-1	–				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
219	SMALL MAMMAL HOUSING	SV-1	VB-1				P-2	P-2	P-2	P-2	PL-4	PL-2	WIRE	ACT-1	REF. RCP	
220	MECHANICAL / AHU	CONC.	–				P-2	P-2	P-2	P-2				-	-	
221	FOOD BOWL WASH AREA	SV-1	VB-1	FRP-1	6'-0"		P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
222	CAT SUPPLIES STORAGE	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
223	TEL. DATA CLOSET	CONC.	VB-1				P-2	P-2	P-2	P-2				P-3	REF. RCP	
C-1	PUBLIC CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-2	PUBLIC CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-3	PUBLIC CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-3A	PUBLIC CORRIDOR	SV-1														
C-4	STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-5	STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-6	STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-7	AC STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-8	STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-9	PUBLIC CORRIDOR	RS-1	RS-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-10	STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-11	PUBLIC CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-12	STAFF CORRIDOR	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
C-14	Room	SV-1														
C-15	Room	SV-1														
EL-1	H.C. ELEVATOR	CONC.	–													
S-1	EGRESS STAIRS	SV-1	VB-1				P-2	P-2	P-2	P-2				ACT-1	REF. RCP	
S-2	EGRESS STAIRS	SV-1	VB-1				P-2	P-2	P-2	P-2				P-3	REF. RCP	

FINISH LEGEND

FINISH LEGEND

No.	GENERAL CATEGORY	MANUFACTURER	PRODUCT NUMBER	COLOR	MATERIAL DESCRIPTION	PHONE
	FLOORING					
	CARPET					
CPT-1	STAFF	SPEC # 096800	T.B.S.B.C.	T.B.S.B.C.	PROVIDE MATERIAL ALLOWANCE (PER SPEC.)	
CPT-2	DOCTORS	SPEC # 096800	T.B.S.B.C.	T.B.S.B.C.	PROVIDE MATERIAL ALLOWANCE (PER SPEC.)	
	PORCELAIN TILE (FLOORS)					
PT-1	WAITING/RECEPTION/RETAIL AREA	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.		
PT-2	BATHROOM	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.		
PT-3	OFFICE/STAFF LOUNGE	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.		
	RECESSED FLOOR MAT					
EFM-1	ENTRY AREA	SPEC # 124810	T.B.S.B.C.	T.B.S.B.C.		
	ROOF PAVERS					
RP-1	ROOF PAVER	SPEC # 077100	T.B.S.B.C.	T.B.S.B.C.		
	RESINOUS EPOXY FLOORING					
RS-1	FLOOR & BASE	SPEC # 096723	T.B.S.B.C.	T.B.S.B.C.		
RS-2	WALLS	SPEC # 096723	T.B.S.B.C.	T.B.S.B.C.		
	RUBBER FLOORING					
R-1	INPATIENT	SPEC # 096523	T.B.S.B.C.	T.B.S.B.C.	HARMONY	
R-2	OUTPATIENT	SPEC # 096523	T.B.S.B.C.	T.B.S.B.C.	HARMONY	
R-3	EGRESS STAIR	SPEC # 096523	T.B.S.B.C.	T.B.S.B.C.	RUBBER FLOORING	
R-4						
	VINYL COMPOSITION TILE FLOORING					
VCT-1	INPATIENT & GENERAL USE	SPEC # 096520	T.B.S.B.C.	T.B.S.B.C.	ADHESIVE & PVC MOLDINGS AS REQ'D	
	SHEET VINYL (WELDED)					
SV-1	INPATIENT & GENERAL USE	SPEC # 096520	T.B.S.B.C.	T.B.S.B.C.	ADHESIVE & PVC MOLDINGS AS REQ'D	
SV-2	OUTPATIENT (BOARDING)	SPEC # 096520	T.B.S.B.C.	T.B.S.B.C.	ADHESIVE & PVC MOLDINGS AS REQ'D	
SV-3	INPATIENT (ACCENT COLOR)	SPEC # 096520	T.B.S.B.C.	T.B.S.B.C.	ADHESIVE & PVC MOLDINGS AS REQ'D	
	WALL BASE					
	VINYL BASE					
VB-1	INTEGRAL W/ VINYL FLOOR	SPEC # 095613	T.B.S.B.C.	T.B.S.B.C.	PROVIDE PRE-FORMED OUTSIDE CORNER	
VB-2	STRAIGHT - EDGE VINYL BASE	SPEC # 095600	T.B.S.B.C.	T.B.S.B.C.	PROVIDE PRE-FORMED OUTSIDE CORNER	
VB-3	GENERAL W/ RUBBER FLOOR	SPEC # 096523	T.B.S.B.C.	T.B.S.B.C.	PROVIDE PRE-FORMED OUTSIDE CORNER	
VB-4	GENERAL W/ RUBBER SHEET FLOOR	SPEC # 096523	T.B.S.B.C.	T.B.S.B.C.		
	WALLS					
	CERAMIC TILE (WALLS)					
CT-1	RUNS	SPEC # 093013	T.B.S.B.C.	WHITE	4" x 4"	
CT-2	BATHROOM	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.	4" x 4"	
CT-3	BATHING	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.		
	FIBERGLASS REINFORCED PLASTIC PANEL					
FRP-1	WET LOCATIONS	SPEC #	T.B.S.B.C.	T.B.S.B.C.		
	PAINT					
P-1	OUTPATIENT / DRYWALL	SPEC # 099100	T.B.S.B.C.	T.B.S.B.C.	LATEX-INTERIOR	
P-2	INPATIENT / DRYWALL	SPEC # 099100	T.B.S.B.C.	T.B.S.B.C.	LATEX-INTERIOR	
P-4	INPATIENT - EPOXY	SPEC # 099100	T.B.S.B.C.	T.B.S.B.C.	EPOXY	
P-5	EXTERIOR - WOOD CLEAR COAT FINISH	SPEC # 099100	T.B.S.B.C.	T.B.S.B.C.	LATEX-EXTERIOR	
P-6	OUTPATIENT / DRYWALL	SPEC # 099100	T.B.S.B.C.	T.B.S.B.C.	LATEX-INTERIOR	
	STONE					
ST-1	WAINSCOT	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.		
	WALL PANELING					
WP-1	WAINSCOT	SPEC # 062000	T.B.S.B.C.	T.B.S.B.C.		
WP-2	INPATIENT	SPEC # 062000	T.B.S.B.C.	T.B.S.B.C.		
	CEILING					
	ACOUSTICAL TILE					
ACT-1	DRY	SPEC # 095100	T.B.S.B.C.	T.B.S.B.C.	FORMED MINERAL FIBER (2'x2')	
ACT-2	DRY	SPEC # 095100	T.B.S.B.C.	T.B.S.B.C.	FORMED MINERAL FIBER (2'x4')	
ACT-3	WET	SPEC # 095100	T.B.S.B.C.	T.B.S.B.C.	WET - FORMED MINERAL FIBER (2'x2')	
ACT-4						
	PAINT					
P-3	INPATIENT - CEILING	SPEC # 099100	T.B.S.B.C.	T.B.S.B.C.	LATEX-EXTERIOR	
	WOOD CEILING					
WC-1	WAITING/RECEPTION/RETAIL AREA	SPEC # 062000	T.B.S.B.C.	T.B.S.B.C.		
WC-2	BATHROOM	SPEC # 062000	T.B.S.B.C.	T.B.S.B.C.		
PVC-1	INT. PVC (FAUX WOOD) CEILING	SPEC #	T.B.S.B.C.	T.B.S.B.C.		
	METAL PANEL CEILING (ELEVATOR CABINET)					
MPC-1	STANDARD ELEVATOR FINISH	SPEC # 142424	T.B.S.B.C.	T.B.S.B.C.	SELECTED FROM A STANDARD ELEVATOR MANUFACTURER FINISH	
	INTERIOR SURFACES STONE					
ST-2	COUNTERTOP	SPEC # 093013	T.B.S.B.C.	T.B.S.B.C.		
	PLASTIC LAMINATE					
PL-1	COUNTERTOP - OUTPATIENT	SPEC # 066116	T.B.S.B.C.	T.B.S.B.C.	NONE	
PL-2	COUNTERTOP - INPATIENT	SPEC # 066116	T.B.S.B.C.	T.B.S.B.C.	NONE	
PL-3	CABINET - OUTPATIENT	SPEC # 064000	T.B.S.B.C.	T.B.S.B.C.	NONE	
PL-4	CABINET - INPATIENT	SPEC # 064000	T.B.S.B.C.	T.B.S.B.C.	NONE	
PL-5	ELEVATOR INTERIOR CABINET	SPEC # 142424	T.B.S.B.C.	T.B.S.B.C.	WOOD WITH P. LAM CAP	
PL-6	RECEPTION - OUTPATIENT	SPEC # 066116	T.B.S.B.C.	T.B.S.B.C.		

NOTE:

T.B.S.B.C. = TO BE SELECTED BY COUNTY
U.O.N. = UNLESS OTHERWISE NOTED
CS = SEALED CONCRETE
MR = MOLDED RUBBER
CP = CONCRETE PAVERS
A.N. = AS NOTED
BC = BRUSHED CHROME
WD = WOOD
GWB = GYPSUM DRYWALL BOARD
SSUR = SOLID SURFACE
BP = BIRCH PLYWOOD

REVISION

NO.	DESCRIPTION	DATE

ARCHITECTS SEAL

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY: Author
CHECKED BY: Checker
SCALE:
DATE: 15 MAR 19
PROJECT NO: 1723

FINISH SCHEDULE, LEGEND

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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A9.01

GENERAL PROJECT REQUIREMENTS

A. CODE COMPLIANCE:

1. THE CONTRACTOR SHALL COMPLY WITH THE LAWS, ORDINANCES, RULES, AND REGULATIONS OF CODE OF MASSACHUSETTS REGULATIONS, ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION, THE NATIONAL FIRE PROTECTION ASSOCIATION, THE NATIONAL ELECTRICAL CODE, AND THE PUBLIC UTILITIES HAVING JURISDICTION OVER ANY OF THE SYSTEMS HEREIN SPECIFIED.

B. PERMIT FEES:

1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, AND APPROVALS TO COMPLETE THE PROJECT WORK. ALL CERTIFICATES SHALL BE IN DUPLICATE AND BE DELIVERED TO THE OWNER'S REPRESENTATIVE.

C. DEFINITIONS:

1. "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.
2. "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.
3. "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.
4. "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACTED DOCUMENTS.

D. SCOPE OF WORK:

1. PROVIDE ALL WORK INDICATED IN THE CONTRACT DOCUMENTS.

E. CONTRACT DOCUMENTS:

1. THE CONTRACT DOCUMENTS SHALL BE CONSIDERED FOR DIAGRAMMATIC PURPOSES ONLY. ATTENTION IS CALLED TO THE FACT THAT WHILE THE DOCUMENTS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD.
2. THE DRAWINGS ARE NOT TO BE CONSIDERED AS CONSTRUCTION SHOP DRAWINGS. THE DRAWINGS DO NOT INDICATE EVERY FITTING, ELBOW, OFFSET, VALVE, PULL BOX OR SIMILAR COMPONENTS REQUIRED TO COMPLETE THE PROJECT WORK. PREPARE FIELD COORDINATION DRAWINGS TO ENSURE PROPER INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS TO INSTALL THE SYSTEMS AS DIAGRAMMED AT NO ADDITIONAL COST.

G. EQUIPMENT AND MATERIALS:

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS INDICATED OTHERWISE, AND THE CURRENT MODEL FOR WHICH REPLACEMENT PARTS ARE AVAILABLE. SUBSTITUTIONS SHALL ONLY BE ACCEPTED AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE OR THE ENGINEER.
2. THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND UNLESS OTHERWISE INDICATED SHALL FOLLOW THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND RECOMMENDATIONS.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS FOR A COMPLETE. SYSTEM.
4. ALL EQUIPMENT SHALL BE MOUNTED VIBRATION FREE.

I. COORDINATION:

1. THE CONTRACTOR SHALL INSTALL ALL DUCTWORK, PIPING, RACEWAYS, CIRCUITRY, CONDUIT, ETC., AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM. RUN PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS IN A NEAT WORKMANLIKE MANNER. AVOID CONFLICT WITH NEW EQUIPMENT, LIGHTS, CABLE TRAYS, ETC. IF CONFLICT WITH DOES OCCUR, THE CONTRACTOR SHALL REROUTE CONFLICTING PROJECT WORK AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
2. THE CONTRACTOR SHALL PROVIDE COMPLETE COORDINATION DRAWINGS FOR EACH LEVEL. SHOW ALL RELEVANT TRADES AND AVAILABLE CEILING PLENUM HEIGHT.
3. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY FOR THIS WORK AND ASSURE RESPONSIBILITY FOR THEIR ACCURACY. THE DRAWINGS AS SHOWN ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR MECHANICAL FIXTURES, AND TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ARCHITECT/ENGINEER.
4. SHOULD ANY STRUCTURAL IMPEDIMENTS (I.E. BEAMS, SLAB FOLDS, POST-TENSIONED SLABS, COLUMNS, SHEAR WALLS, ETC.) PREVENT THE SETTING OF CABINETS, PANELBOARDS, EQUIPMENT, FEEDER CONDUITS, ETC. AT THE LOCATION INDICATED ON THE PLANS, THE CONTRACTOR SHALL MAKE ANY NECESSARY DEVIATIONS, AS COORDINATED WITH THE ARCHITECT/ENGINEER AND IMPLEMENT AT NO ADDITIONAL COST.
5. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL ITEMS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS IN CIRCUITRY AND OTHER ITEMS REQUIRED TO INSTALL THE WORK WITHOUT INTERFERENCES.
6. COORDINATE WITH THE WORK OF OTHER SECTIONS AND TRADES, WITH EQUIPMENT FURNISHED BY OTHERS, AND WITHIN THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

K. PARTITIONS AND DUCTWORK:

1. THE CONTRACTOR SHALL REPAIR ALL OPENINGS IN WALLS, CEILINGS, FLOORS, ROOF, ETC., WHICH ARE CREATED BY DEMOLITION AND/OR NEW PROJECT WORK. THE REPAIRS SHALL BE WITH MATERIALS AND FINISH TO MATCH EXISTING. OPENINGS AND PENETRATIONS IN FIRE RATED PARTITIONS OR DUCTWORK SHALL BE SEALED PER U.L. APPROVED FIRE ASSEMBLY TO MAINTAIN FIRE RESISTANT INTEGRITY. DUCTWORK AND PIPING SHALL BE CAPPED, SEALED AIR AND WATERTIGHT, AND INSULATED TO MATCH EXISTING.
2. WHERE IT IS NECESSARY TO CUT WALLS, FLOORS OR CEILINGS FOR THE INSTALLATION OF ANY MECHANICAL WORK, SUCH CUTTING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ALL AFFECTED AREAS SHALL BE PATCHED BY THE CONTRACTOR TO MATCH THE ORIGINAL CONDITION, RATING AND APPEARANCE. BEFORE CUTTING TAKES PLACE, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT AND/OR BUILDING MANAGEMENT.
3. WHERE IT IS NECESSARY TO CORE DRILL THE FLOORS FOR INSTALLATION OF SPECIFIED WORK, THE CONTRACTOR SHALL HAVE THE AREA TO BE CORE DRILLED X-RAYED TO ENSURE THE STRUCTURAL SYSTEM WILL NOT BE COMPROMISED. DO NOT CORE DRILL, PENETRATE OR CUT EXISTING CONCRETE FLOOR SLABS WITHOUT CONSULTING WITH THE BASE BUILDINGS STRUCTURAL ENGINEER OF RECORD, AND/OR A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER. DO NOT PROCEED WITH WORK WITHOUT WRITTEN PERMISSION FROM THE ABOVE PROFESSIONALS. ARRANGE MOBILIZATION AND PAYMENT FOR X-RAY EQUIPMENT, IF NECESSARY, TO INVESTIGATE ALL POTENTIAL STRUCTURAL IMPEDIMENTS.
4. ALL NEW FLOOR OPENINGS, AND OPENINGS IN SLAB-TO-SLAB WALLS SHALL BE PATCHED BY THE CONTRACTOR OR TRADE WHOSE WORK REQUIRES PATCHING TO MATCH ORIGINAL CONDITION, APPEARANCE AND FIRE RATING.
5. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE
6. FIRE STOPPING SHALL BE UL APPROVED AND COMPLIANT WITH ALL LOCAL AND FEDERAL CODES AND REGULATIONS. CONTRACTOR SHALL ENGAGE THE SERVICES OF TECHNICIAN'S TRAINED AND CERTIFIED IN THE APPLICATION OF FIRE STOP MATERIALS. WHERE REQUIRED BY LOCAL CODES, THE TECHNICIAN SHALL BE LICENSED.

L. SITE CLEANUP:

1. THE CONTRACTOR SHALL CLEAN UP THE JOBSITE DAILY. THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC. SHALL BE BROOM CLEANED AND MATERIALS, TOOLS, ETC. SHALL BE LEFT IN AN ORDERLY MANNER.
2. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO WASHING AND/OR REPAIRING GLASS, REMOVING SPOTS AND STAINS, CLEANING ALL FIXTURES AND WASHING ALL FLOORS, WALLS AND CEILINGS IF APPROPRIATE.

M. GUARANTEES:

1. THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER'S REPRESENTATIVE ITS PROPER OPERATION(S). ALL NEW EQUIPMENT SHALL BE MOUNTED VIBRATION FREE. THE CONTRACTOR SHALL PROVIDE ALL LABOR AS REQUIRED DURING COMMISSIONING AND INSTRUCTION OF OWNERS PERSONNEL PROCESSES.
2. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTIVE OR INOPERATIVE EQUIPMENT AND COMPONENTS FURNISHED BY THE CLIENT AT NO COST TO THE CLIENT.
3. THE CONTRACTOR'S GUARANTEE SHALL INCLUDE ALL EQUIPMENT SUPPLIED BY THE CONTRACTOR OR CLIENT.

N. RECORD DRAWINGS:

1. THE CONTRACTOR SHALL MAINTAIN THREE (3) SETS OF ALL RECORD DOCUMENTS, FOR DISTRIBUTION TO THE CLIENT. THESE DOCUMENTS SHALL INCLUDE: CONTRACT DRAWINGS AND SPECIFICATIONS, APPROVED SIGNED-OFF PERMIT DRAWINGS AND BUILDING PERMITS, ADDENDA(S), AND APPROVED SHOP DRAWINGS. THESE DOCUMENTS SHALL BE MARKED AS REQUIRED TO RECORD ALL CHANGES DURING CONSTRUCTION. THESE DRAWINGS SHALL BE DELIVERED TO THE OWNER, IN GOOD CONDITION AND ORDER TO THE FOLLOWING PARTIES: THE ORIGINAL DOCUMENTS TO THE TENANT, ONE (1) COPY TO THE BUILDING MANAGEMENT AND ONE COPY TO THE ARCHITECT.

O. BUILDING SMOKE/FIRE ALARM SYSTEM:

1. PROTECT THE BUILDING SMOKE/FIRE ALARM DETECTION SYSTEM AS REQUIRED TO PREVENT FALSE ALARMS WITHIN THE PROJECT CONSTRUCTION AREA.

P. EQUIPMENT SERVICE ACCESS:

1. PROVIDE ACCESS DOORS IN DRYWALL CEILINGS AND PARTITIONS TO SERVICE EQUIPMENT, BALANCE DIFFUSERS, AND EXPOSE JUNCTION BOXES. COORDINATE THE EXACT LOCATIONS AND STYLE OF FLANGELESS ACCESS DOORS WITH THE ENGINEER.

Q. JOB RESPONSIBILITY:

1. PROVIDE ADEQUATE STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING THE PROGRESS OF THE WORK.
2. BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIAL AND EQUIPMENT EMPLOYED IN THE INSTALLATION UNTIL FINAL ACCEPTANCE BY THE OWNER. PROTECT SAME FROM ANY CAUSE WHATSOEVER.
3. BE RESPONSIBLE FOR THE REPLACEMENT OF ALL DAMAGED OR DEFECTIVE WORK, MATERIALS EQUIPMENT. DO NOT INSTALL SENSITIVE OR DELICATE EQUIPMENT UNTIL MAJOR CONSTRUCTION WORK IS COMPLETED.
4. OBSERVE AND CONFORM TO APPLICABLE SAFETY REGULATIONS, INCLUDING THOSE REQUIRED BY THE OWNER'S REPRESENTATIVE.
5. ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS FOR THE PROTECTION OF OCCUPANTS, TRANSIENTS AND WORKMEN FROM DANGER DUE TO WORK PERFORMED BY THE CONTRACTOR.
6. MAKE GOOD ANY DAMAGE TO THE WORK CAUSED BY FLOODS, STORMS, ACCIDENTS, ACTS OF NEGLIGENCE, STRIKES, VIOLENCE OR THEFT UP TO THE TIME OF FINAL ACCEPTANCE BY THE OWNER.
7. BE RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLECT OR ANY OTHER CAUSES ON THE PART OF THE EMPLOYEES.
8. DO NOT LEAVE ANY WORK IN A HAZARDOUS CONDITION, EVEN TEMPORARILY.
9. ERECT, MAINTAIN AND FINALLY REMOVE ALL SCAFFOLDING, STAGING, FORMS, PLATFORMS AND LADDERS REQUIRED FOR THE INSTALLATION.
10. DO NOT INSTALL WORK FOR WHICH AN EXTRA CHARGE IS TO BE MADE WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE AND THE OWNER. A WRITTEN REQUEST FOR EXTRA WORK SHALL STATE THE NATURE OF THE WORK, BY WHOM REQUESTED, AND THE PRICE TO BE CHARGED.
11. CONTRACTOR SHALL SUBMIT A COPY OF THEIR SAFETY TRAINING PROGRAM AND QUALITY CONTROL PROGRAM FOR REVIEW AND ACCEPTANCE.
12. CONTRACTOR SHALL ACCEPT ALL OWNER SUPPLIED EQUIPMENT AND PROVIDE ON OR OFF SITE STORAGE, RIGGING, AND HANDLING AS NEEDED.

Project Name: Jefferson County Animal Care | Unit Total Supply Air: 2000 cfm
Date: 02/19/19 | Unit Total Outdoor Air: 150 cfm
Unit Designation: AHU-1

Room Number	Description	Area (ft²) (As)	Area Outdoor Air Rate per IMC Table 403.3 (Ra)	Area Outdoor Air (RaAs)	Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C x P/1000 (Ps)	Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	Occupant Outdoor Air (RpPs)	Breathing Zone Outdoor Air (Vbz = RpPs + RaAs)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vps)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vps)
100 Entry/Exit	CORRIDOR	49	0.06	3	0	0	0	0	3	0.8	4	80		0.050
101 Entry/Exit	CORRIDOR	49	0.06	3	0	0	0	0	3	0.8	4	80		0.050
102 Waiting Area	MAIN LOBBY	190	0.06	11	10	2	5	10	21	0.8	27	290		0.093
103 Waiting Area	MAIN LOBBY	290	0.06	17	10	3	5	15	32	0.8	40	430		0.093
104 Reception	OFFICE	168	0.06	10	5	1	5	5	15	0.8	19	250		0.076
148 File Room	OFFICE	88	0.06	5	5	1	5	5	10	0.8	13	100		0.130
88 Elev. Control Rm		24	0	0	0	0	0	0	0	0.8	0	50		0.000
150 Clerical Area 1	OFFICE	49	0.06	3	5	1	5	5	8	0.8	10	70		0.143
C-1 Corridor	CORRIDOR	422	0.06	25	0	0	0	0	25	0.8	32	450		0.071
107 Male Restroom		190	0	0	0	0	0	0	0	0.8	0	150		0.000
78 Female Restroom		190	0	0	0	0	0	0	0	0.8	0	100		0.000
Totals		1707		77		8		40	117		149	2000	0	0.143

Project Name: Jefferson County Animal Care | Unit Total Supply Air: 1400 cfm
Date: 02/19/19 | Unit Total Outdoor Air: 320 cfm
Unit Designation: AHU-2

Room Number	Description	Area (ft²) (As)	Area Outdoor Air Rate per IMC Table 403.3 (Ra)	Area Outdoor Air (RaAs)	Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C x P/1000 (Ps)	Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	Occupant Outdoor Air (RpPs)	Breathing Zone Outdoor Air (Vbz = RpPs + RaAs)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vps)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vps)
105 Behave Assess	PET SHOP	115	0.18	21	10	1	7.5	7.5	28.5	0.8	36	170		0.211
106 Admiss Exam	PET SHOP	96	0.18	17	10	1	7.5	7.5	24.5	0.8	31	140		0.221
107 Temp Cat	PET SHOP	48	0.18	9	10	1	7.5	7.5	16.5	0.8	21	80		0.263
108 Temp Dog	PET SHOP	48	0.18	9	10	1	7.5	7.5	16.5	0.8	21	80		0.263
109 Reception	OFFICE	50	0.06	3	5	1	5	5	8	0.8	10	80		0.125
110 Entry/Exit	CORRIDOR	38	0.06	2	0	0	0	0	2	0.8	3	50		0.060
111 Waiting	WAITING RM	117	0.06	7	50	6	5	30	37	0.8	46	170		0.362
112 Exam Rm	PET SHOP	88	0.18	16	10	1	7.5	7.5	23.5	0.8	30	130		0.231
113 Exam Rm	PET SHOP	88	0.18	16	10	1	7.5	7.5	23.5	0.8	30	130		0.231
115 Med Disp/Lab	PET SHOP	116	0.18	21	10	1	7.5	15	36	0.8	45	170		0.265
C-6 Corridor	CORRIDOR	160	0.06	10	0	0	0	0	10	0.8	13	200		0.065
			0	0		0		0	0	0.8	0	0		0.000
			0	0		0		0	0	0.8	0	0		0.000
Totals		964		131		16		117.5	248.5		314	1400	0	0.362

Project Name: Jefferson County Animal Care | Unit Total Supply Air: 1200 cfm
Date: 02/19/19 | Unit Total Outdoor Air: 240 cfm
Unit Designation: AHU-3

Room Number	Description	Area (ft²) (As)	Area Outdoor Air Rate per IMC Table 403.3 (Ra)	Area Outdoor Air (RaAs)	Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C x P/1000 (Ps)	Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	Occupant Outdoor Air (RpPs)	Breathing Zone Outdoor Air (Vbz = RpPs + RaAs)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vps)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vps)
179 Multi Purpose	PET SHOP	670	0.18	121	10	7	7.5	52.5	173.5	0.8	217	1000		0.217
180 Multi Pur Stor	STORAGE RM	70	0.12	8	0	0	0	0	8	0.8	10	70		0.143
C-2 Corridor	CORRIDOR	148	0.06	9	0	0	0	0	9	0.8	12	130		0.092
			0	0		0		0	0	0.8	0	0		0.000
			0	0		0		0	0	0.8	0	0		0.000
Totals		888		138		7		52.5	190.5		239	1200	0	0.217

Project Name: Jefferson County Animal Care | Unit Total Supply Air: 2000 cfm
Date: 02/19/19 | Unit Total Outdoor Air: 290 cfm
Unit Designation: AHU-4

Room Number	Description	Area (ft²) (As)	Area Outdoor Air Rate per IMC Table 403.3 (Ra)	Area Outdoor Air (RaAs)	Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C x P/1000 (Ps)	Occupant Outdoor Air Rate per IMC Table 403.3 (Rp)	Occupant Outdoor Air (RpPs)	Breathing Zone Outdoor Air (Vbz = RpPs + RaAs)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vps)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vps)
147 Food Prep	PET SHOP	117	0.18	21	10	2	7.5	15	36	0.8	45	180		0.250
149 Comp Serv	STORAGE	42	0	0	0	0	0	0	0	0.8	0	50		0.000
152 Power Wash	STORAGE	36	0	0	0	0	0	0	0	0.8	0	50		0.000
159 Adoptable Dog	PET SHOP	225	0.18	41	10	3	7.5	22.5	63.5	0.8	80	340		0.235
68 Food Bowl Wash	PET SHOP	77	0.18	14	10	1	7.5	7.5	21.5	0.8	27	120		0.225
169 Dog Food Stor	STORAGE	102	0	0	0	0	0	0	0	0.8	0	140		0.000
170 Laundry Stor	STORAGE	120	0	0	0	0	0	0	0	0.8	0	170		0.000
175 Laundry Rm	COMMERCIAL LAUNDRY	180	0	0	10	2	25	50	50	0.8	63	270		0.233
172 Adopt Counsel	PET SHOP	110	0.18	20	10	2	7.5	15	35	0.8	44	180		0.275
C-3 Corridor	CORRIDOR	290	0.06	17	0	0	0	0	17	0.8	22	410		0.054
C-4 Corridor	CORRIDOR	83	0.06	5	0	0	0	0	5	0.8	6	90		0.067
			0	0		0		0	0	0.8	0	0		0.000
			0	0		0		0	0	0.8	0	0		0.000
Totals		1382		118		10		110	228		288	2000	0	0.275

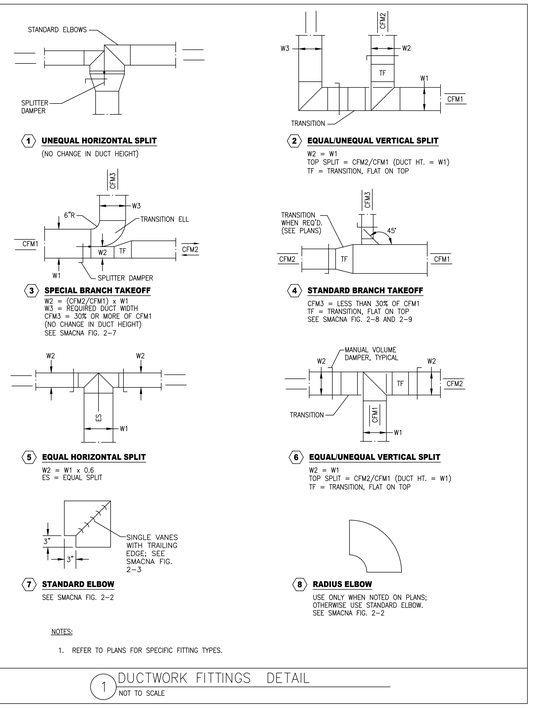
MECHANICAL SPECIFICATIONS:

A. GENERAL

1. THE DRAWINGS PREPARED FOR THIS PROJECT ARE AN OUTLINE TO SHOW WHERE PIPES, DUCTS AND APPARATUSES MUST GO IN ORDER TO HARMONIZE WITH THE BUILDING AND INSTALLATION OF THE VARIOUS TRADES. WORK MUST BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AS MUCH AS POSSIBLE. DRAWINGS SHALL BE CAREFULLY CHECKED DURING THE COURSE OF CONSTRUCTION. IF DISCREPANCIES, ERRORS OR OMISSIONS ARE DISCOVERED PRIOR TO OR DURING CONSTRUCTION PHASE, NOTIFY THE ENGINEER IMMEDIATELY FOR INTERPRETATION OR CORRECTION. TAKE NECESSARY MEASUREMENTS AND RESPONSIBILITY FOR SAME, INCLUDING CLEARANCES FOR EQUIPMENT THAT ARE TO BE FURNISHED. THE ARCHITECT /ENGINEER RESERVE THE RIGHT TO MAKE MINOR LOCATION CHANGES OF PIPING AND EQUIPMENT WHERE SUCH ADJUSTMENTS ARE DEEMED DESIRABLE FROM AN APPEARANCE OR OPERATIONAL STANDPOINT. SUCH CHANGES WILL BE ANTICIPATED SUFFICIENTLY IN ADVANCE TO AVOID EXTRA WORK OR DELAY THE PROGRESS OF THE PROJECT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION. THE CONTRACT DOCUMENTS INDICATE APPROXIMATE LOCATIONS OF DUCTWORK AND PIPING AND ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND ROUTING OF THE EXISTING PIPING AND NEW DUCTWORK.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK, INCLUDING OFFSETS, AT NO ADDITIONAL COST TO THE OWNER.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. PROVIDE HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES.
5. ALL PERMITS, FEES, LICENSES, APPROVALS, AND OTHER ARRANGEMENTS FOR THE WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
6. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP. PROVIDE AN ADDITIONAL FOUR (4) YEAR WARRANTY (TOTAL OF 5 YEARS) ON ALL REFRIGERATION COMPRESSORS. DELIVER ALL WARRANTY CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE AND BUILDING TURNOVER.
7. PROVIDE ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH THE EQUIPMENT CUT SHEETS AND CONTROL WIRING DIAGRAMS.
8. THE MECHANICAL DRAWINGS INDICATE THE GENERAL ROUTING AND LOCATION OF DUCTWORK, PIPING, EQUIPMENT, FIXTURES, TERMINAL DEVICES, ETC. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION FROM ACTUAL FIELD MEASUREMENTS AT THE JOB SITE. ALL DUCTWORK AND PIPING SHALL BE COORDINATED WITH LIGHT FIXTURES, STRUCTURAL SYSTEM, CEILING GRID, SUPPORTS, PLUMBING, SPRINKLER PIPING, AND ARCHITECTURAL FEATURES OF THE BUILDING PRIOR TO FABRICATION OR INSTALLATION. NO EXTRAS WILL BE ALLOWED FOR DUCTWORK OR PIPING WHICH IS FABRICATED AND THEN FOUND UNABLE TO FIT IN THE INTENDED SPACE. ALL EQUIPMENT SHALL BE LOCATED TO ALLOW FOR CLEANING, INSPECTION AND SERVICE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CEILING TYPE AND DIFFUSER & GRILLE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLANS. DIFFUSER AND GRILLE LOCATION ON SHOP DRAWINGS ARE SUBJECT TO APPROVAL BY ARCHITECT.
10. PROVIDE ACCESS PANELS FOR ANY PIECE OF EQUIPMENT LOCATED ABOVE NON-ACCESSIBLE CEILINGS. NO EQUIPMENT SHALL BE LOCATED ABOVE WALLS.
11. WHEREVER DUCTWORK OR OTHER ITEMS PASS THROUGH FIRE-RATED WALLS AND FLOORS, THE CONTRACTOR SHALL ADEQUATELY FIRE STOP THE SPACE BETWEEN ITEMS AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND THE SLEEVE. FIRE STOP SHALL BE A NON-COMBUSTIBLE, NON-MELTING, APPROVED MATERIAL.
12. THE DRAWINGS INDICATE GENERAL CHARACTER AND LOCATION OF WORK INCLUDED, BUT MAY HAVE MINOR SPECIALTIES OMITTED THAT SHALL BE PROVIDED WITHOUT EXTRA COST.
13. CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED TO INSTALL IN THE NEW SYSTEMS AND EQUIPMENT. PROVIDE CUTTING AND PATCHING OF WALLS, PARTITIONS, CEILINGS AND FLOORS, AS REQUIRED. PATCH TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLANS FOR FINISHES. SLEEVE ALL PIPE PENETRATIONS AND SEAL ALL OPENINGS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL REQUIREMENTS.
14. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PENETRATIONS TO THE INTERIOR OR EXTERIOR OF THE BUILDING AS A RESULT OF HIS WORK, IN SUCH A MANNER THAT THE DESIGN FIRE RATING IS MAINTAINED. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS REQUIRED FOR NECESSARY PENETRATIONS. IN THE ABSENCE OF ARCHITECTURAL SPECIFICATIONS, USE A TWO (2) HOUR FIRE RATING.
15. CONTRACTOR SHALL FURNISH ALL PIPING, VALVES AND FITTINGS AT A PRESSURE RATING OF NO LESS THAN 125 PSI, OR AS REQUIRED BY LOCAL CODES AND REGULATIONS. WHERE LOCAL JURISDICTIONS ALLOW FOR A LOWER PRESSURE RATING THAN THAT SPECIFIED ABOVE, THE ABOVE SPECIFIED PRESSURE RATING SHALL DICTATE.
16. IN CASES WHERE MANUFACTURER PROVIDES INTERNAL MAXIMUM OVERCURRENT PROTECTION (MOCP) DEVICES IN THE EQUIPMENT, THE MANUFACTURER SHALL SUPPLY LABELING STATING SUCH ON THE EQUIPMENT SERVED. OTHERWISE CONTRACTOR TO SHALL SUPPLY EXTERNAL FUSED DISCONNECT SIZED TO PROVIDE MOCP.
17. CONDENSATE PIPING SHALL BE TYPE "L" COPPER OR SCHEDULE 40 PVC. CONDENSATE PUMP WITH FLEX TUBING TO EXTERIOR IS ACCEPTABLE – AS REQUIRED BY SITE CONDITIONS.

B. INSULATION

1. DUCTWORK
   a. SIZES INDICATED ARE FREE INSIDE AREA, I.E. SIZES DO NOT INCLUDE INSULATION OR LINING THICKNESS.
   b. INSULATION SHALL BE WRAPPED ON DUCTS WITH 1/2" OUTWARD CLINCHING STAPLES ON 4" CENTERS. STAPLES AND SEAMS SHALL BE SEALED WITH A BRUSH COAT OF VAPOR BARRIER MASTIC.
   c. INSULATION SHALL BE FACED WITH FIRE RESISTANT VAPOR BARRIER JACKET WITH A 2" TAB ON ONE EDGE.
   d. SUPPLY, RELIEF AND EXHAUST DUCTWORK INSULATION SHALL BE A 1-1/2" THICK 3/4 LB. DENSITY FLEXIBLE FIBERGLASS BLANKET.
   e. OUTDOOR AIR DUCTWORK AND SUPPLY, RETURN AND OUTDOOR AIR PLENUM INSULATION SHALL BE A 1-1/2" THICK 2 LB. DENSITY RIGID FIBERGLASS BOARD.
   f. EXHAUST AND RELIEF DUCTWORK SHALL BE INSULATED FROM POINT OF EXHAUST FROM THE BUILDING TO THE BACKDRAFT DAMPER OR SHUT-OFF DAMPER CLOSEST TO THE EXIT FROM THE BUILDING.
   g. EXPOSED DUCTWORK SHALL BE EITHER INTERNALLY LINED OR COVERED W/ RIGID FIBERGLASS INSULATION OF SIMILAR THICKNESS AND PERFORMANCE.
   h. INTERNAL LINING OF SIMILAR THICKNESS AND PERFORMANCE MAY BE USED IN LIEU OF WRAPPING THE DUCTWORK WITH INSULATION.
   i. ALL DUCTWORK LOCATED IN



NOTES:

1. REFER TO PLANS FOR SPECIFIC FITTING TYPES.

1 DUCTWORK FITTINGS DETAIL
NOT TO SCALE

SPLIT SYSTEM GAS FURNACE/AC SCHEDULE

UNIT DESIGNATION		INDOOR UNIT												OUTDOOR UNIT								
INDOOR	OUTDOOR	TOTAL CFM	MIN. O.A. CFM	NOMINAL TONS	FAN HP (BHP)	E.S.P. IN. W.C.	V/PH/HZ	MCA	MOCP	WEIGHT (LBS)	GAS HEATER EFF.	GAS HTR INPUT (BTUH)	GAS HTR OUTPUT (BTUH)	BASIS OF DESIGN	TOTAL MBH	SENS MBH	OA DB DEG F	SEER AT ARI	V/PH/HZ	MCA	MOCP	WEIGHT LBS	BASIS OF DESIGN	NOTES
AHU-1, AHU-4, AHU-11	C-1, C-4, C-11, C-12	2000	SEE O/A TABLES	5.0	3/4	0.5	120/1/60	12.9	20	185	95.0%	97,000	92,150	TRANE TUH1D100A9601	53.5	42.9	95	14.0	208~230/1/60	32	50	327	TRANE 4TTR6060J1	1~11
AHU-2, AHU-5, AHU-7, AHU-13, AHU-14, AHU-15	C-2, C-5, C-7, C-9, C-13, C-14, C-15	1600	SEE O/A TABLES	4.0	3/4	0.5	120/1/60	12.9	20	185	95.0%	97,000	92,150	TRANE TUH1D100A9601	44.8	35.1	95	14.0	208~230/1/60	24	40	256	TRANE 4TTR6048J1	1~11
AHU-6, AHU-8	C-6, C-8	1400	SEE O/A TABLES	3.5	3/4	0.5	120/1/60	13.5	20	160	95.0%	80,000	76,000	TRANE TUH1C080A9601	39.5	30.9	95	14.0	208~230/1/60	21	35	252	TRANE 4TTR6042J1	1~11
AHU-3, AHU-10A, AHU-10B	C-3, C-10A, C-10B	1200	SEE O/A TABLES	3.0	3/4	0.5	120/1/60	13.5	20	160	95.0%	80,000	76,000	TRANE TUH1C080A9601	33.4	27.7	95	14.0	208~230/1/60	18	30	212	TRANE 4TTR6036J1	1~11
AHU-9	C-5	1000	SEE O/A TABLES	2.5	1/2	0.5	120/1/60	9.2	15	140	95.0%	60,000	57,000	TRANE S9V2B040	29.8	23.4	95	14.0	208~230/1/60	17	25	184	TRANE 4TTR6030J1	

NOTES:

1. INDOOR AHU AND CONDENSING UNIT SHALL BE CERTIFIED FOR USE WITH EACH OTHER.
2. INDOOR AHU: CONDENSATE DRAIN TRAP KIT: ALSO SEE NOTE 8.
3. INDOOR AND OUTDOOR UNITS SHALL BE PROVIDED WITH UNIT DISCONNECT SWITCH.
4. INDOOR UNITS SHALL BE PROVIDED WITH A MINIMUM MERV 8 DISPOSABLE FILTER. SPARE SET TO OWNER
5. PROVIDE TWINNING KIT FOR AHU-10A & AHU-10B
6. AIRFLOW THROUGH COOLING COIL SHALL NOT EXCEED 550 FPM.
7. PROGRAMMABLE THERMOSTAT WITH PROGRAMMABLE FAN CYCLE & DEHUMIDIFICATION CAPABILITY.
8. PROVIDE AUTOMATIC CONTROLS TO SHUT DOWN UNIT IN CASE OF OVERFLOW INTO SECONDARY CONDENSATE PAN. UPON SENSING IMPROPER CONDITIONS, WATER LEVEL DETECTOR SHALL STOP THE FAN AND DE-ENERGIZE THE COOLING CYCLE. PROVIDE REMOTE INDICATOR FOR WATER LEVEL DETECTOR ON CEILING OR WALL NEAR UNIT LOCATION.
9. COORDINATE WITH OWNER FOR EQUIPMENT SPECIFICATION AND ACCESSORIES.
10. R-410A REFRIGERANT
11. PROVIDE EVAPORATOR DEFROST CONTROL WITH TXV FOR LOW AMBIENT COOLING DOWN TO 30F.

FAN SCHEDULE

		PERFORMANCE DATA			CONSTRUCTION DATA		ELECTRICAL DATA					
MARK	AREA / SERVICE	CFM	SP (IN. W.G.)	RPM	TYPE	DRIVE	WATTS (HP)	VOLT	PH	MAX WEIGHT LBS.	MANUFACTURER	NOTES
EF-1	RESTROOMS/MOP CL. BATHING/POWER WASH MAMMAL/EXOTIC HOU. MULTIPUR/ADOPT DOG	80	0.3	935	CEILING MOUNTED	DIRECT	6	115	1	12	GREENHECK SP~80~VG	1,2,5,6,8,9
EF-2	RESTROOMS SURGERY	350	0.3	1003	CEILING MOUNTED	DIRECT	155	115	1	31	GREENHECK SP~A510~VG	1,2,5,6,11
EF-3	STRAY/SURR DOG ISO/QUANT DOG	500	0.50	1599	ROOF MOUNTED	DIRECT	(1/10)	115	1	25	GREENHECK G~090~VG	3,4,5,7,10
EF-4	ADOPT. DOG HOUSE	400	0.50	1586	ROOF MOUNTED	DIRECT	(1/10)	115	1	26	GREENHECK G~90~VG	3,4,5,7
EF-5	STRAY/SURR. CAT ADOPTABLE CAT	340	0.50	1725	ROOF MOUNTED	DIRECT	(1/10)	115	1	24	GREENHECK G~080~VG	3,4,5,7
EF-6	KITTEN DISPLAY	90	0.30	1557	ROOF MOUNTED	DIRECT	(1/15)	115	1	18	GREENHECK G~060~VG	2,5,7

NOTES:

1. FANS IN RESTROOMS SHALL SWITCH WITH LIGHT
2. FANS IN BATHING/MOP CLOSETS/MULTIPURPOSE/ADOPTABLE DOG/MAMMAL/EXOTICS/ KITTEN DISPLAY/EVIDENCE STORAGE/FOOD BOWL SHALL ENERGIZE WITH WALL SWITCH.
3. STRAY/SURR DOG/CAT, ADOPT. DOG/CAT, SHALL HAVE PROGRAMMABLE TIMERS. FANS SHALL RUN CONTINUOUS DURING OCCUPIED HRS. & INTERLOCK TO LOCAL AHU AND O/A DAMPER (10% OPEN)
4. PROVIDE ALL ASSOCIATED CONTACTS, RELAYS AND TRANSFORMERS TO ENERGIZE LOCAL AHU & OPEN O/A DAMPER FOR MAKE-UP AIR.
5. STANDARD PREWIRED DISCONNECT SWITCH
6. VIBRATION ISOLATORS AND BRACKETS
7. ROOF CURBS & FLASHING
8. OXYGEN GENERATOR ROOM EXHAUST FAN SHALL RUN CONTINUOUS.
9. ISOLATION/INFECTIOUS CAT ROOM EXHAUST FANS SHALL RUN CONTINUOUS.
10. ISOLATION/QUARNTINE DOG ROOMS SHALL BE EXHAUSTED CONTINUOUS & & INTERLOCK TO LOCAL AHU AND O/A DAMPER (10% OPEN)
11. SURGERY SHALL BE ENERGIZED WITH WALL SWITCH & INTERLOCK TO LOCAL AHU AND O/A DAMPER (OPEN TO O/A TABLE CFM)

ELECTRIC HEATER SCHEDULE

			CONSTRUCTION DATA	ELECTRICAL DATA					
MARK	AREA / SERVICE	CFM	TYPE	KW	VOLT	PH	AMPS	MANUFACTURER	NOTES
EH-1	ENTRY/EXIT VESTIBULES	245	WALL MOUNTED	2	208/230	1	9.6/8.3	MARKEL (F/H)3422T	1,2
EH-2	ENTRY/EXIT VESTIBULES	245	WALL MOUNTED	4	208/230	1	19.2/16.7	MARKEL (F/H)3424T	1,2

NOTES:

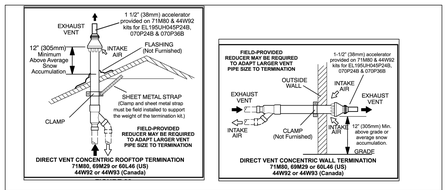
1. ELECTRICAL CORD SHALL BE CONCEALED W/ CASING.
2. BUILT IN CONTROLLABLE THERMOSTAT

DIFFUSER, REGISTER AND GRILLE SCHEDULE

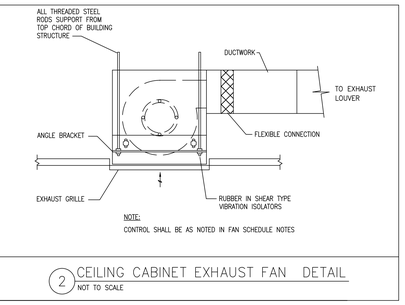
TYPE	SERVICE	CFM RANGE	FACE DIMENSION	NECK DIMENSION	FINISH	BASIS OF DESIGN	NOTES
1	SUPPLY AIR DIFFUSER	0 ~ 125	24"x24"	6"ø	WHITE	TUTTLE & BAILEY: 1300	1,2,3,4,5,6
		126 ~ 250		8"ø			
		251 ~ 400		10"ø			
2	SUPPLY AIR DIFFUSER	0 ~ 125	12"x12"	6"ø	WHITE	TUTTLE & BAILEY: 1300	1,2,3,4,6
		126 ~ 250		8"ø			
3	SUPPLY AIR DIFFUSER	401 ~ 600	18"x8	12"ø	WHITE	TUTTLE & BAILEY: T54D	1,2,4,6
4	SUPPLY AIR DIFFUSER	126 ~ 250	10"X6"	8"ø	WHITE	TUTTLE & BAILEY: T54D	1,2,4,6
5	SUPPLY AIR DIFFUSER	0 ~ 125	6"x6"	6"ø	WHITE	TUTTLE & BAILEY: T54D	1,2,4,6
1	RETURN AIR DIFFUSER	0 ~ 125	24"x24"	6"ø	WHITE	TUTTLE & BAILEY: PR	1,2,5,7
		126 ~ 250		8"ø			
		251 ~ 400		10"ø			
		401 ~ 600		12"ø			
		601 ~ 850		14"ø			
		851 ~ 1000		16"ø			
2	RETURN AIR DIFFUSER	0 ~ 125	12"x12"	6"ø	WHITE	TUTTLE & BAILEY: PR	1,2,7
		126 ~ 250		8"ø			
3	RETURN AIR DIFFUSER	1751 ~ 2000	36"X18"	18"ø	WHITE	TUTTLE & BAILEY: T70D	1,2
4	RETURN AIR DIFFUSER	601 ~ 850	18"X10"	14"ø	WHITE	TUTTLE & BAILEY: T70D	1,2
5	RETURN AIR DIFFUSER	401 ~ 600	18"X10"	12"ø	WHITE	TUTTLE & BAILEY: T70D	1,2
6	RETURN AIR DIFFUSER	126 ~ 250	12"X6"	8"ø	WHITE	TUTTLE & BAILEY: T70D	1,2
1	EXHAUST AIR GRILLE	0 ~ 125	24"x24"	6"ø	WHITE	TUTTLE & BAILEY: PR	1,2,7
		126 ~ 250		8"ø			
2	EXHAUST AIR GRILLE	126 ~ 250	12"X12"	8"ø	WHITE	TUTTLE & BAILEY: PR	1,2,7
3	EXHAUST AIR GRILLE	126 ~ 250	12"X8"	8"ø	WHITE	TUTTLE & BAILEY: T70D	1,2,4,7
4	EXHAUST AIR GRILLE	0 ~ 100	6"X6"	6"ø	WHITE	TUTTLE & BAILEY: T70D	1,2,7
5	DOOR TRANSFER GRILLE	0 ~ 100	10"X10"	N/A	WHITE	TUTTLE & BAILEY: DXFR	1,2

NOTES:

1. COORDINATE WITH OWNER COLOR & FINISH.
2. CONTRACTOR SHALL CONFIRM ACTUAL FINAL DIFFUSER DIMENSIONS WITH VENDOR, AND COORDINATE WITH CEILING/DOOR TYPE AS NECESSARY.
3. 4 WAY THROW PATTERN.
4. PROVIDE WITH OPPOSED BLADE DAMPER.
5. ---
6. PROVIDE INSULATED BACKPANS WHEN INSTALLED ABOVE CEILINGS, UNCONDITIONED, AND/OR PARTIALLY CONDITIONED SPACE.
7. PERFORATED PATTERN

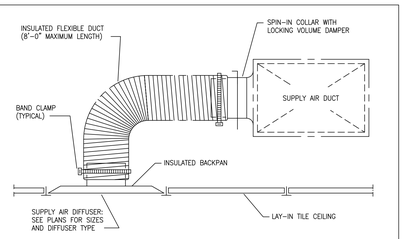


9 CONCENTRIC VENT DETAILS
NOT TO SCALE



NOTE:
CONTROL SHALL BE AS NOTED IN FAN SCHEDULE NOTES

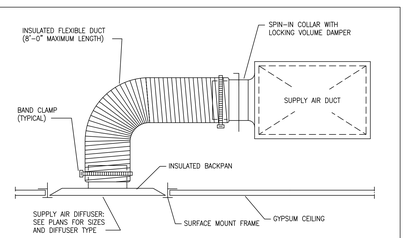
2 CEILING CABINET EXHAUST FAN DETAIL
NOT TO SCALE



NOTE:

1. FLEXIBLE DUCT SHALL BE SUPPORTED FROM STRUCTURE ABOVE TO PREVENT SAGGING.

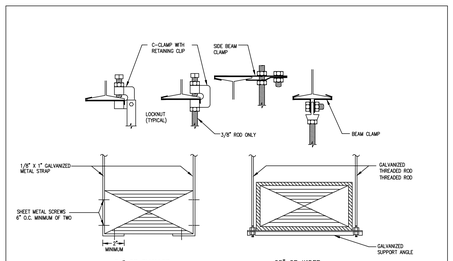
3 SUPPLY AIR DIFFUSER IN ACOUSTICAL CEILING
NOT TO SCALE



NOTE:

1. FLEXIBLE DUCT SHALL BE SUPPORTED FROM STRUCTURE ABOVE TO PREVENT SAGGING.

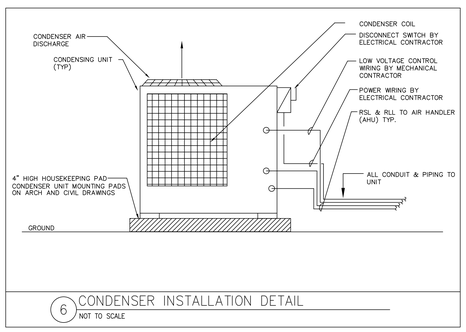
4 SUPPLY AIR DIFFUSER IN GYPSUM CEILING
NOT TO SCALE



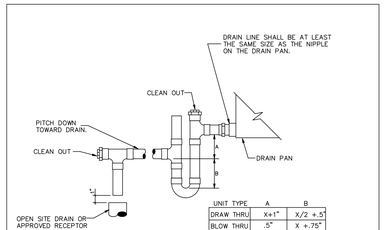
DUCT WIDTH	ROD DIA.	SUPPORT ANGLE OR EQUIV. CHANNEL	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 30"	3/8"	1 1/2" X 1 1/2" X 1/8"	8'-0" O.C.	4 SQ. FT.
31" TO 42"	3/8"	1 1/2" X 1 1/2" X 1/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1/2"	1 1/2" X 1 1/2" X 1/8"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	1/2"	2" X 2" X 1/4"	4'-0" O.C.	-------
85" AND UP	1/2"	2" X 2" X 1/4"	4'-0" O.C.	-------

* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

5 DUCT SUPPORT DETAIL
NOT TO SCALE



6 CONDENSER INSTALLATION DETAIL
NOT TO SCALE

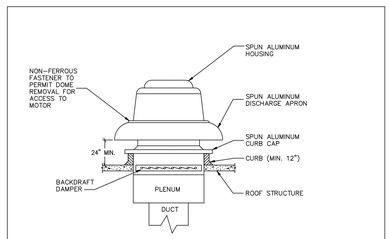


UNIT TYPE	A	B
DRAW THRU	X+1"	X/2 +.5"
BLOW THRU	.5"	X +.75"

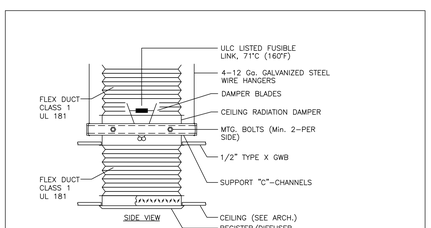
WHERE X = STATIC PRESS. IN PAN

NOTES:
1. COIL MUST BE MOUNTED HIGH ENOUGH TO PERMIT TRAP TO BE INSTALLED.
2. PROVIDE SHIMS OR STRUCTURAL PLATFORMS REQUIRED TO ELEVATE FACTORY PACKAGED AIR HANDLING UNITS TO OBTAIN REQUIRED TRAP HEIGHT.

7 AHU DRAIN TRAP DETAIL
NOT TO SCALE



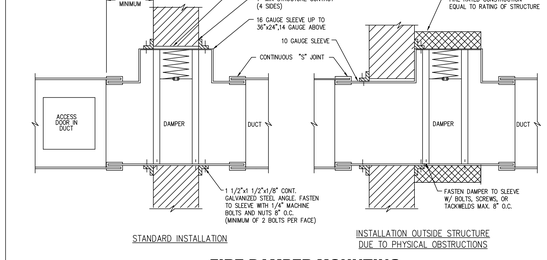
8 ROOF EXHAUST FAN DETAIL
NOT TO SCALE



NOTES ~

1. ATTACH SUPPORT "C"~CHANNELS, DUCT DROP, & FIRE STOP FLAP WITH 12mm (1/2") STEEL BOLTS, Min. 150mm (6") O.C. (MINIMUM 2~BOLTS PER CHANNEL). BOLTS SHALL NOT INTERFERE WITH THE CLOSING OF THE CEILING FIRE DAMPER.
2. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, N.B.C., & SPECIFICATIONS. ACCEPTABLE PRODUCT: "NAILOR~HART INDUSTRIES INC." OR APPROVED EQUIVALENT. CEILING DAMPER ASSEMBLY SHALL BE ULC LABELLED c/w 71C (160F) FUSIBLE LINK.

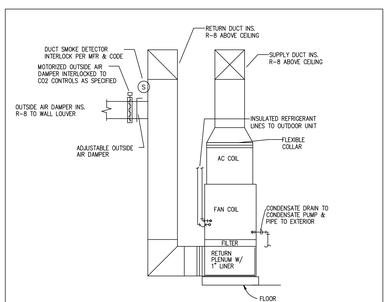
12 RATED CEILING RADIATION DAMPER
NOT TO SCALE



FIRE DAMPER MOUNTING
NO SCALE

NOTE: PROVIDE ACCESS DOOR FOR FINISHED SURFACE

10 RATED WALL OPENING FIRE DAMPER
NOT TO SCALE



11 AIR HANDLING INDOOR UNIT
NOT TO SCALE

Project Name: Jefferson County Animal Care	Unit Total Supply Air: 1600 cfm
Date: 02/18/19	Unit Total Outdoor Air: 180 cfm
Unit Designation: AHU-13	

A Room Number	B Description	C Area (ft²) (Af)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C a F1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Ra)	I Occupant Outdoor Air (RaPz)	J Breathing Zone Outdoor Air (Vbz = RaPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)	M Supply Air Design (Vps)	N Secondary Recirculated Air	O Outdoor Air Fraction (Zp = Voz / Vps)
208 Cat Bathing	PET SHOP	42	0.18	8	10	1	7.5	7.5	15.5	0.8	20	50		0.400
214 Food Prep	PET SHOP	130	0.18	24	10	2	7.5	15	39	0.8	49	200		0.245
215 Cat Food Stor	STORAGE RM	96	0.12	12	0	0	0	0	12	0.8	15	140		0.107
221 Cat Bathing	PET SHOP	42	0.18	8	10	1	7.5	7.5	15.5	0.8	20	50		0.400
222 Cat Supp Stor	STORAGE RM	27	0.12	3	0	0	0	0	3	0.8	4	50		0.080
C-11 Corridor	CORRIDOR	300	0.06	23	0	0	0	0	23	0.8	29	600		0.048
C-12 Corridor	CORRIDOR	204	0.06	12	0	0	0	0	12	0.8	15	400		0.038
			0	0	0	0	0	0	0	0.8	0	0		0.000
			0	0			0	0	0	0.8	0	0		0.000
Totals		1002		101		5		37.5	136.5		175	1600	0	0.400

Project Name: Jefferson County Animal Care	Unit Total Supply Air: 1600 cfm
Date: 02/18/19	Unit Total Outdoor Air: 250 cfm
Unit Designation: AHU-14	

A Room Number	B Description	C Area (ft²) (Af)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C a F1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Ra)	I Occupant Outdoor Air (RaPz)	J Breathing Zone Outdoor Air (Vbz = RaPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)	M Supply Air Design (Vps)	N Secondary Recirculated Air	O Outdoor Air Fraction (Zp = Voz / Vps)
200 Kitten Dep Rm	PET SHOP	145	0.18	26	10	2	7.5	15	41	0.8	52	340		0.153
201 Long Term Stor	STORAGE RM	280	0.12	34	0	0	0	0	34	0.8	43	300		0.143
202 Mop	STORAGE RM	68	0.12	8	0	0	0	0	8	0.8	10	100		0.100
204 Isol/Infect Cat	PET SHOP	190	0.18	34	10	2	7.5	15	49	0.8	62	280		0.221
205 Isol/Infect Cat	PET SHOP	190	0.18	34	10	2	7.5	15	49	0.8	62	280		0.221
207 Bulk Storage	STORAGE RM	68	0.12	8	0	0	0	0	8	0.8	10	100		0.100
B~1 Stairs	CORRIDOR	144	0.06	9	0	0	0	0	9	0.8	12	200		0.060
			0	0	0	0	0	0	0	0.8	0	0		0.000
			0	0			0	0	0	0.8	0	0		0.000
Totals		1085		153		6		45	198		251	1600	0	0.221

Project Name: Jefferson County Animal Care	Unit Total Supply Air: 1600 cfm
Date: 02/18/19	Unit Total Outdoor Air: 370 cfm
Unit Designation: AHU-15	

A Room Number	B Description	C Area (ft²) (Af)	D Area Outdoor Air Rate per IMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per IMC Table 403.3 (People/ 1000 ft2)	G Occupancy C a F1000 (Pz)	H Occupant Outdoor Air Rate per IMC Table 403.3 (Ra)	I Occupant Outdoor Air (RaPz)	J Breathing Zone Outdoor Air (Vbz = RaPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)	M Supply Air Design (Vps)	N Secondary Recirculated Air	O Outdoor Air Fraction (Zp = Voz / Vps)
209 Adopt Cat	PET SHOP	390	0.18	70	10	4	7.5	30	100	0.8	125	600		0.208
210 Cat Bonding	PET SHOP	36	0.18	6	10	1	7.5	7.5	13.5	0.8	17	50		0.340
211 Cat Bonding	PET SHOP	45	0.18	8	10	1	7.5	7.5	15.5	0.8	20	50		0.400
212 Stray/Surr Cat	PET SHOP	262	0.18	51	10	3	7.5	22.5	73.5	0.8	92	420		0.219
213 Kitten Litter Stor	STORAGE RM	117	0.12	14	0	0	0	0	14	0.8	18	130		0.138
216 Exotic Animal	PET SHOP	120	0.18	22	10	2	7.5	15	37	0.8	47	180		0.261
219 Small Mammal	PET SHOP	115	0.18	21	10	2	7.5	15	36	0.8	45	170		0.265
			0	0	0	0	0	0	0	0.8	0	0		0.000
			0	0			0	0	0	0.8	0	0		0.000
Totals		1105		192		13		97.5	289.5		364	1600	0	0.400

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Comfort Design Inc.
Mechanical & Electrical Engineers
Job # E1910

M1.01

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REVISION NO.	DESCRIPTION	DATE

Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO 63051
County Project # PW19B035BLD

MECHANICAL SCHEDULES & DETAILS

DRAWN BY:	JLC
CHECKED BY:	CRS
SCALE:	NO SCALE
DATE:	15 MAR 19
PROJECT NO:	1723

PROGRESS SET ☐ BID SET ☐ PERMIT SET ■ CONSTRUCTION SET ☐

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FIRST FLOOR
MECHANICAL PLAN

M2.01

PROGRESS SET ☐	BID SET ☐	PERMIT SET ■	CONSTRUCTION SET ☐	DRAWN BY:	JLC
				CHECKED BY:	CRS
SCALE:	1/4" = 1'-0"				
DATE:	15 MAR 19				
PROJECT NO:	1723				

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

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	REVISION	

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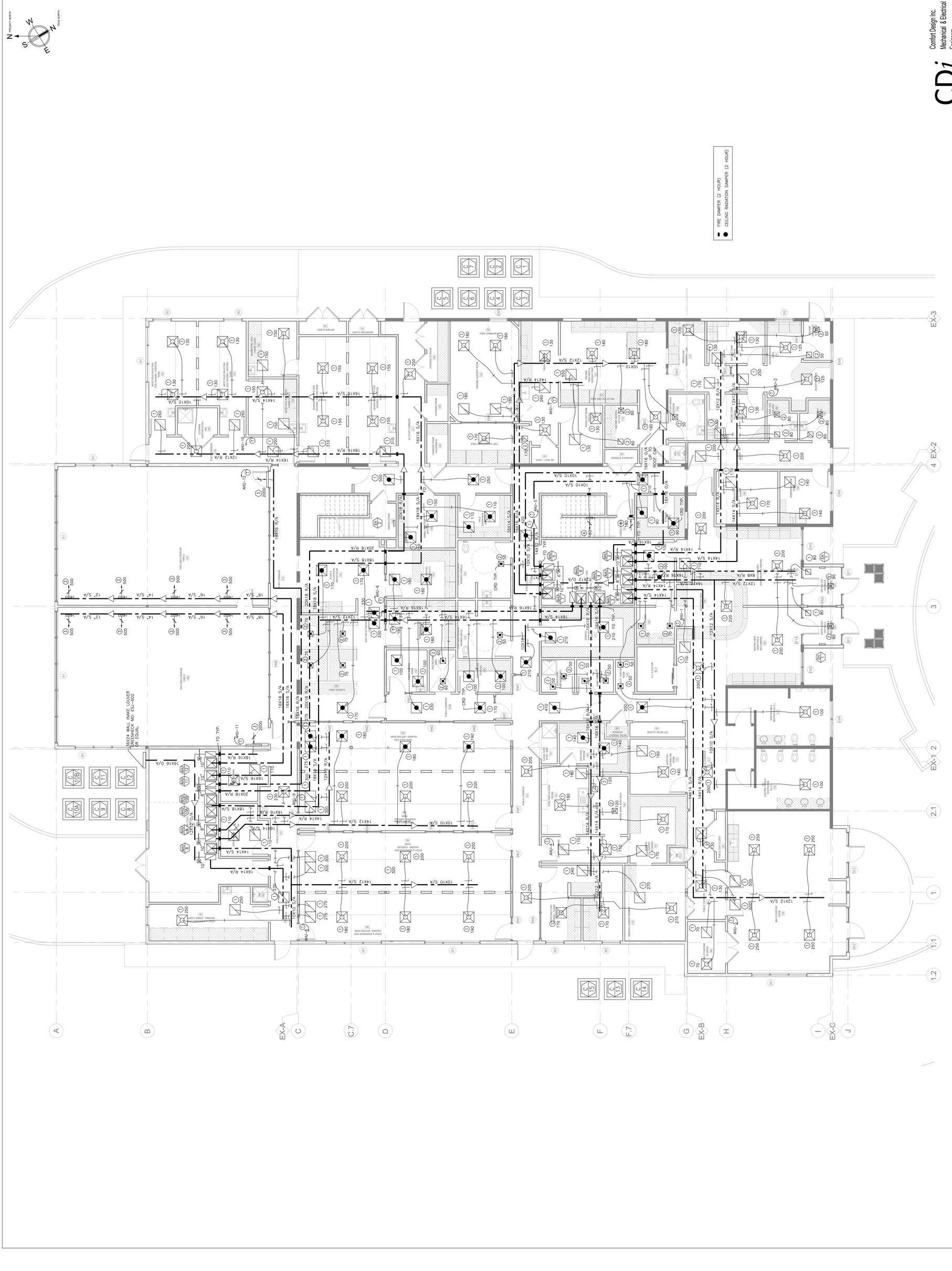
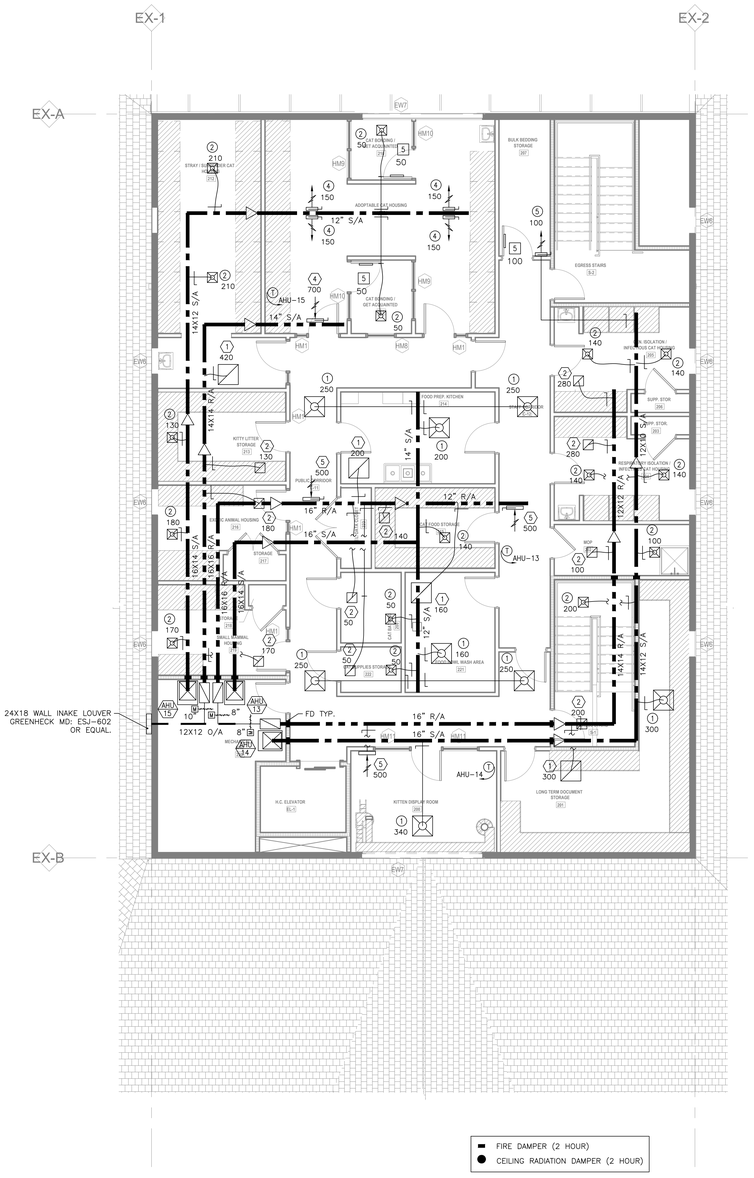
Job # E1910

FIRE DAMPER (2 HOUR)
CEILING RADIATION DAMPER (2 HOUR)





1 SECOND FLOOR MECHANICAL PLAN
3/16" = 1'-0"

2 SECOND FLOOR EXHAUST PLAN
3/16" = 1'-0"

PROJECT NORTH
TRUE NORTH

NO.	REVISION DESCRIPTION	DATE

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B035BLD

DRAWN BY: JLC
CHECKED BY: CRS
SCALE: 1/4" = 1'-0"
DATE: 15 MAR 19
PROJECT NO. 1723

PROGRESS SET ☐ BID SET ☐ PERMIT SET ■ CONSTRUCTION SET ☐

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SECOND FLOOR MECHANICAL PLAN

M2.02

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1 ROOF MECHANICAL/EXHAUST AIR PLAN
3/16" = 1'-0"

PROJECT NORTH
TRUE NORTH

NO.	REVISION DESCRIPTION	DATE

ARCHITECTS SEAL OF MISSOURI

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Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

County Project # PW19B0035BLD

ROOF MECHANICAL & EXHAUST AIR PLAN

DRAWN BY:	JLC
CHECKED BY:	CRS
SCALE:	1/4" = 1'-0"
DATE:	15 MAR 19
PROJECT NO.	1723

PROGRESS SET ☐ BID SET ☐ PERMIT SET ■ CONSTRUCTION SET ☐

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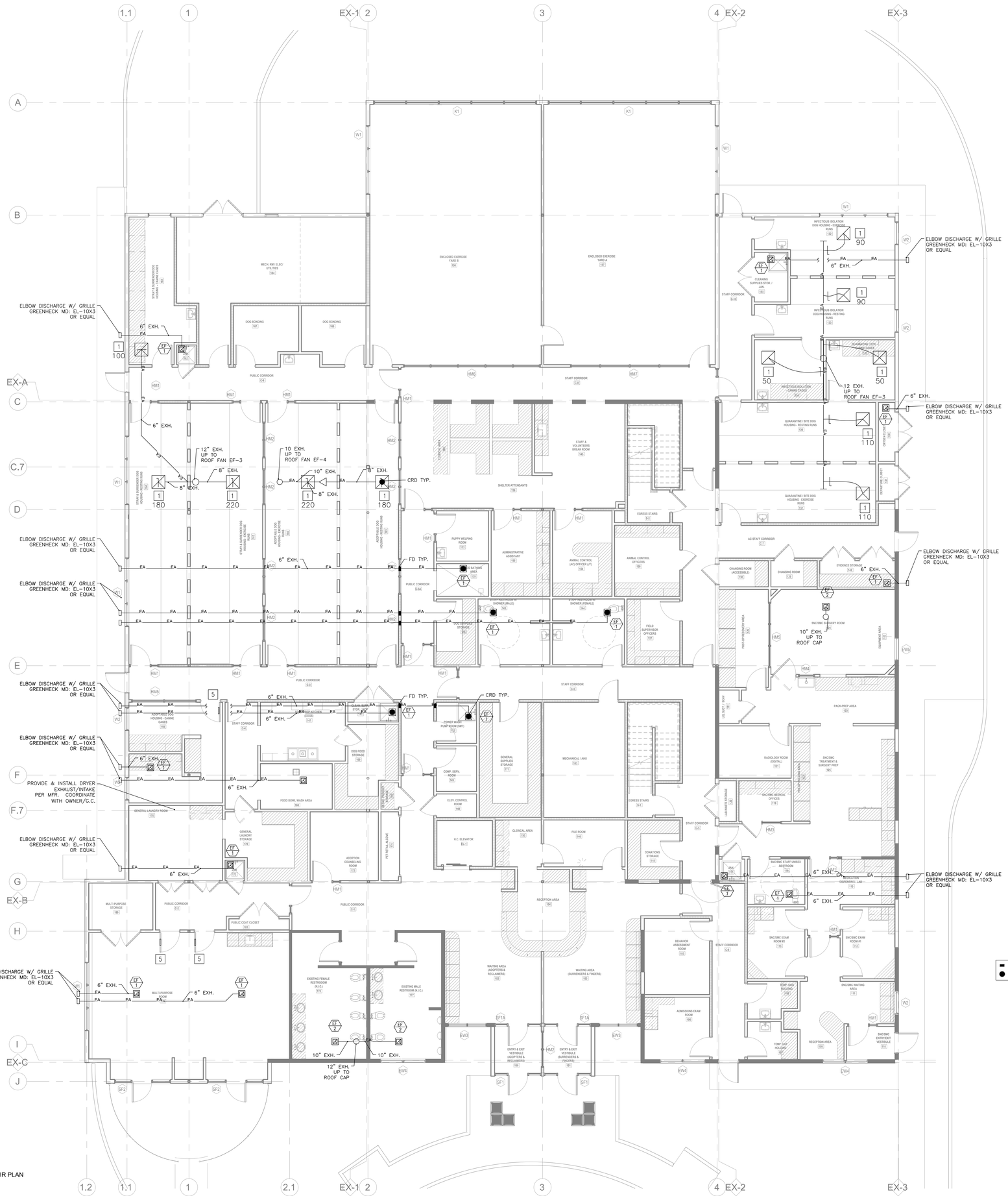

1 FIRST FLOOR EXHAUST AIR PLAN
3/16" = 1'-0"

REVISION NO.	DESCRIPTION	DATE

ARCHITECTS SEAL OF MISSOURI REGISTERED ARCHITECT

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Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

DRAWN BY:	JLC
CHECKED BY:	CRS
SCALE:	1/4" = 1'-0"
DATE:	15 MAR 19
PROJECT NO:	1723

FIRST FLOOR EXHAUST PLAN

PROGRESS SET ☐ BID SET ☐ PERMIT SET ■ CONSTRUCTION SET ☐

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DIVISION 16050 – BASIC MATERIALS AND METHODS

1.0 NAMEPLATES

1.1 GENERAL: FURNISH AND MOUNT ON EACH PANEL BOARD/SWITCHBOARD (INCLUDING BRANCH SWITCHES), LARGE JUNCTION BOX, SAFETY SWITCH, STARTER, REMOTE CONTROL, PUSHBUTTON STATION, AND ALL SIMILAR CONTROLS A NAMEPLATE DESCRIPTIVE OF THE EQUIPMENT OR EQUIPMENT CONTROLLED.

1.2 PROVIDE BLACK AND WHITE NAMEPLATES CONSTRUCTED FROM LAMINATED PHENOLIC WITH A WHITE CENTER CORE. LETTERS SHALL BE ENGRAVED IN THE PHENOLIC TO FORM WHITE LETTERS 3/8" HIGH. FASTEN THE NAMEPLATES WITH SCREWS AND ADHESIVE FASTENER.

2.0 MOUNTING ACCESSORIES

2.1 THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLE IRON, CHANNEL IRON, RODS, SUPPORTS, HANGERS, CONCRETE OR PLYWOOD REQUIRED TO INSTALL, MOUNT AND SUPPORT ANY ELECTRICAL EQUIPMENT OR DEVICE CALLED FOR ON THE PLANS.

2.2 SUPPORTING MATERIAL SHALL BE COMPLETE WITH HANGERS, CONNECTORS, BOLTS, CLAMPS, AND NECESSARY ACCESSORIES TO MAKE A COMPLETE INSTALLATION. SUPPORTING MATERIAL SHALL BE GALVANIZED, PAINTED OR OTHERWISE SUITABLY FINISHED. PRODUCTS BY BINKLEY, STEEL CITY OR RACO WILL BE ACCEPTABLE.

2.3 ALL SURFACE–MOUNTED EQUIPMENT ON BLOCK WALLS SHALL BE MOUNTED ON 3/4" PLYWOOD BACKBOARD. ALL FLOOR–MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" HIGH CONCRETE PAD.

3.0 EXECUTION

3.1 THE ELECTRICAL WORK FOR CONSTRUCTION PURPOSES SHALL CONFORM TO ALL FEDERAL (OSHA), STATE, ALL SPECIFIC SAFETY REQUIREMENTS AND THE CURRENT EDITION OF THE N.E.C.

3.2 CHECK THE HVAC AND PLUMBING SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND INCLUDE THE SAME IN THE CONTRACT COST.

3.3 EQUIPMENT CONNECTIONS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS AND PUSH–BUTTON STATIONS FOR THE EQUIPMENT FURNISHED BY THE OWNER OR UNDER A SEPARATE CONTRACT SHALL BE INSTALLED AND CONNECTED UNDER THIS DIVISION, AS INDICATED ON THE CONTRACT DRAWINGS.

3.4 ALL CUTTING, PATCHING, EXCAVATING, BACK FILLING AND CONCRETE WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROVIDING THE SLEEVES, CHASES AND OPENINGS NECESSARY FOR THE ELECTRICAL INSTALLATION AND FOR THEIR REPAIR IN AN ACCEPTABLE MANNER, AS DETERMINED BY THE ARCHITECT. ALL HOLES SHALL BE CORE–DRILLED. PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE–RATED WALLS, FLOORS, OR CEILINGS.

3.5 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ACCESS PANELS NECESSARY FOR HIS WORK, COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

4.0 MATERIALS AND WORKMANSHIP

4.1 ALL WORK SHALL BE INSTALLED IN A PRACTICAL WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE SEVERAL TRADES NECESSARY

4.2 ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND SHALL BE THE BEST OF THEIR SEVERAL KINDS UNLESS SPECIFIED OR INDICATED ON THE DRAWINGS TO THE CONTRARY.

4.3 DURING EACH PHASE AND AT THE COMPLETION OF THE CONSTRUCTION, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS CAUSED BY HIS WORK. HE SHALL LEAVE THE AREA OF OPERATION BROOM CLEAN.

4.4 ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OR ETL LABEL.

4.5 THIS CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL (LAMPS EXCEPTED) FOR A PERIOD OF ONE YEAR FROM THE DATE OF BUILDING OPENING AND LEAVE HIS WORK IN PERFECT ORDER AT THE COMPLETION. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL, UPON NOTICE OF THE SAME, REMEDY THE DEFECTS AND HAVE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE REPAIRS CORRECTED AT HIS EXPENSE TO THE CONDITION BEFORE SUCH DAMAGE.

5.0 SCOPE OF WORK

5.1 THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, STORAGE, UNPACKING AND PLACEMENT; FULL INTERIOR BUILDING SCOPE BETWEEN LANDLORD CONTRACTOR, TENANT CONTRACTOR TO INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

5.1a EMERGENCY LIGHTING AND POWER

5.1b COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEM INCLUDING ALL TRANSFORMERS AND FEEDERS

5.1c COMPLETE BRANCH CIRCUIT WIRING SYSTEM.

5.1d COMPLETE POWER WIRING FOR ALL AIR CONDITIONING EQUIPMENT, PLUMBING SYSTEM, HEATING EQUIPMENT, VENTILATING AND EXHAUST EQUIPMENT.

5.1e COMPLETE LIGHTING FIXTURE INSTALLATION, INCLUDING ALL INCANDESCENT, FLUORESCENT AND HID LAMPS.

5.1f COMPLETE COMMUNICATIONS CONDUIT AND WIRING SYSTEM INCLUDING BOXES, PLATES, JACKS, ETC., AS SPECIFIED, SHOWN ON THE DRAWINGS AND REQUIRED BY THE TENANT.

5.1g TEMPORARY ELECTRICAL POWER AND LIGHTING AS REQUIRED FOR CONSTRUCTION.

5.1h TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.

5.1i EXIT LIGHT SYSTEM.

5.1j WIRING DEVICES AND FLOOR BOXES.

5.1k LIGHTING CONTROLS.

5.1l GROUNDING OF THE ELECTRICAL SYSTEM.

5.1m FIRE SUPERVISORY ALARM SYSTEM (AS REQUIRED PER JURISDICTION).

5.1n TELEPHONE AND ELECTRIC SERVICES

5.1o SOUND SYSTEM COMPONENTS, CONDUIT SYSTEM & WIRING

5.1p COMPLETE CONDUIT SYSTEM FOR SECURITY DEVICES, INCLUDING PULL STRING.

DIVISION 16060 – GROUNDING AND BONDING

1.0 GROUNDING AND BONDING

1.1 GROUND ALL EQUIPMENT PER N.E.C.

1.2 GROUND ALL DRY TYPE TRANSFORMERS AS PER DRAWINGS AND N.E.C.

1.3 ALL CONDUITS SHALL CONTAIN A CODE–SIZED GROUND WIRE SIZE PER N.E.C. IN ADDITION TO THE CONDUCTORS SHOWN ON THE PLANS. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP, THE GROUND WIRE SIZE SHALL BE INCREASE PROPORTIONATELY.

1.4 WHERE AN ISOLATED, INSULATED GROUND IS REQUIRED A SEPARATE GREEN GROUND SHALL BE RUN FROM THE PANEL GROUND BUS TO THE ISOLATED GROUND CONNECTION OF THE DEVICE SERVED. IN NO CASE SHALL THE SYSTEM GROUND (WIRE AND ASSOCIATED OUTLET BOXES, CONDUIT AND BUILDING STEEL) BE ALLOWED TO CONTACT THE ISOLATED GROUND (GREEN WIRE AND DEVICE GROUND).

DIVISION 16120 – WIRE AND CABLE

1.0 WIRE AND CABLE

1.1 COLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION CONDUCTORS) AS FOLLOWS:

	120/208	277/480
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GREY
GROUND	GREEN	GREEN

1.1a #12 AND #10 CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR, AS LISTED ABOVE.

1.1b CONDUCTORS LARGER THAN ABOVE, WHICH DO NOT HAVE CONTINUOUS INSULATION COLOR SHALL BE COLOR CODED BY APPLICATION OF AT LEAST TWO LAPS OF COLORED TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES. COLOR TAPE SHALL BE THE EQUAL OF 3M PRODUCTS SCOTCH #35.

1.1c CONDUCTORS SHALL BE SOFT ANNEALED COPPER INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE. ALUMINUM CONDUCTORS ARE NOT ALLOWED ON THIS PROJECT.

1.2 INSULATION TYPE SHALL BE TYPE THW FOR WIRE SIZES #8 AWG AND LARGER AND THHN OR THWN FOR #10AWG AND SMALLER. THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS.

1.3 PROVIDE WIRE AND RACEWAY SYSTEM AS DESCRIBED HEREIN AND AS INDICATED ON THE DRAWINGS. METAL–CLAD (MC.) ARMORED CABLE (AC) AND NON–METALLIC SHEATHED CABLE (NMC) SHALL NOT BE PERMITTED UNLESS NOTED SPECIFICALLY OTHERWISE AND APPROVED PRIOR TO BIDDING.

1.4 PROVIDE MINIMUM #12 CONDUCTORS, UNLESS OTHERWISE INDICATED.

1.4a CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR N.E.C. CLASS 1 AND #16 FOR N.E.C. CLASS 2.

1.5 CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.

1.6 CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID

1.7 INSTALL ALL WIRING IN CONDUIT.

1.8 CONNECT #10 AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS, "SCOTCHLOK" BY 3M OR B–CAP BY BUCHANAN.

1.9 CONNECT #8 AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES AS MANUFACTURED BY BURNDY OR T&B.

1.10 INSULATE SPLICING CONNECTORS TO AT LEAST 200% OF THE WIRE INSULATION. USE PRE–STRETCHED TUBING CONNECTOR INSULATORS. 3M PST FOR #2 AND LARGER CONDUCTORS.

1.11 PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AS LEAST 6" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS.

1.11a CLEAN OUT EACH CONDUIT SYSTEM BEFORE PULLING WIRE.

1.12 FORM AND TIE ALL WIRING IN PANEL BOARDS.

1.13 THERE SHALL BE NO WIRE NUT JOINTS OR SPLICES MADE INSIDE SWITCHBOARDS/ PANEL BOARDS.

1.14 BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3%.

1.15 WIRE SIZES SHALL BE BASED ON THE 60°C. AMPACITIES FOR WIRE SIZES NO. 14–1 A.W.G., AND 75°C. AMPACITIES FOR WIRE SIZES #1/0 A.W.G. AND LARGER.

1.16 CIRCUITS MAY BE MULTI–PLEXED IN CONDUIT PROVIDED WIRE IS PROPERLY DERATED AND CONDUIT SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN (9) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT.

1.17 PROVIDE WIRE AND RACEWAY SYSTEMS AS DESCRIBED HEREIN AND INDICATED ON DRAWINGS. METAL–CLAD (MC), ARMORED CABLE (AC), AND NON–METALLIC SHEATED CABLE (NMC) SHALL NOT BE PERMITTED, UNLESS NOTED SPECIFICALLY OTHERWISE AND APPROVED PRIOR TO BIDDING.

DIVISION 16130 – RACEWAYS AND BOXES

1.0 RACEWAYS

1.1 ALL WIRE SHALL BE RUN IN ACCORDANCE WITH CODE IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (E.M.T.) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.

1.1a CONDUIT IN EXTERIOR WALLS, BELOW FLOOR SLAB, OR UNDERGROUND SHALL BE RIGID THREADED, GALVANIZED, HEAVY WALL TYPE.

1.1b CARLON PVC TYPE 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED BELOW FLOOR SLAB OR UNDERGROUND IN LIEU SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.

1.1c CONDUIT RUN EXPOSED TO THE WEATHER SHALL BE HEAVY WALL, METAL THREADED TYPE.

1.2 CONDUIT SIZE SHALL BE 3/4" MINIMUM.

1.3 CONDUIT SHALL BE SECURELY FASTENED IN PLACE.

1.4 ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOOR AND CEILINGS WHEREVER POSSIBLE. EXPOSED CONDUIT IN FINISHED AREAS WILL NOT BE PERMITTED. EXPOSED CONDUIT WILL BE PERMITTED IN UNFINISHED AREAS WITH THE SPECIFIC APPROVAL OF THE ARCHITECT.

1.5 USE FLEXIBLE CONDUIT FOR THE CONNECTION TO RECESSED OR SEMI–RECESSED LIGHTING FIXTURES (6' LENGTH MAXIMUM). USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO MOISTURE.

1.6 USE WATERTIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUIT OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BURIED IN EARTH SHALL BE PAINTED (TWO COATS) WITH HEAVY ASPHALTUM PAINT.

1.7 SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE (N.E.C).

1.8 INSTALL EXPOSED RUNS OF CONDUIT AND CONDUIT ABOVE LAY–IN CEILING PARALLEL OR PERPENDICULAR TO THE WALLS, STRUCTURAL MEMBERS OF INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. PROVIDE RIGHT ANGLE TURNS USING FITTINGS OR SYMMETRICAL BENDS. SUPPORT CONDUITS WITHIN 1" OF ALL CHANGES IN DIRECTION.

1.9 IF A CONDUIT IS SUSPENDED, IT SHALL BE SUPPORTED ON TRAPEZE HANGERS WHICH USE "ALL–THREAD" RODS FROM THE STRUCTURAL STEEL. THE USE OF CEILING SUPPORT WIRE OR SIMILAR MATERIAL WILL NOT BE ACCEPTED.

1.10 INSTALL EMPTY CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL ROPE, JUNCTION/OUTLET BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.

1.11 PROVIDE PITCH POCKETS WHERE CONDUITS PENETRATE THE ROOF.

1.12 THREAD LUBRICATION/SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.

1.13 INSTALL FIRE SEAL FITTINGS WHERE CONDUITS PENETRATE CONCRETE FLOOR SLABS OR MASONRY WALLS REQUIRED TO BE FIRE RATED.

1.14 HORIZONTAL PORTION OF CONDUIT EXPOSED ON THE ROOF AND FEEDING EQUIPMENT SHALL NOT BE MORE THAN 5'–0" UNLESS THE WRITTEN APPROVAL FROM ARCHITECT OR ENGINEER IS OBTAINED.

2.0 PULL AND JUNCTION BOXES

2.1 INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS, AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH N.E.C UNLESS LARGER BOXES ARE INDICATED.

2.2 PROVIDE STEEL BOXES AND REMOVABLE COVERS OF CODE GAGE, HOT ROLLED SHEET STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, FOR ABOVE GROUND WORK. FURNISH WEATHERPROOF BOXES WHEN INSTALLED ABOVE GROUND OUTSIDE.

2.3 PROVIDE CAST IRON BOXES, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE WHERE SHOWN ON THE DRAWINGS. FURNISH REMOVABLE COVERS WITH GASKETS AND STAINLESS STEEL, BRASS OR BRONZE SCREWS.

2.4 PROVIDE CONCRETE BOXES FOR UNDERGROUND WORK UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FURNISH STEEL FRAMES AND COVERS WITH THE COVER ATTACHED TO THE FRAME WITH HEXAGON HEAD, BRASS OR BRONZE CAP SCREWS, 3/8" IN DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.

3.0 OUTLET BOXES

3.1 USE SHEET STEEL BOXES, ZINC COATED OR CADMIUM PLATED, FOR CONCEALED INTERIOR WORK.

3.2 USE CAST BOXES, ZINC–CADMIUM FINISH MALLEABLE IRON, FOR EXPOSED INTERIOR WORK, AND FOR EXPOSED OR CONCEALED WORK IN WET, DAMP OR EXTERIOR LOCATIONS. CAST BOXES SHALL BE SERIES FD BY CROUSE HINDS OR APPLETON.

3.3 WALL BOX SIZES (MINIMUM) SHALL BE 4" SQUARE X 2–1/2" DEEP WHERE WALL CONSTRUCTION PERMITS. WHERE WALL CONSTRUCTION DICTATES, THE WIDTH MAY BE REDUCED TO 2–1/8" OR 1–1/2" UNDER SPECIAL CONDITIONS.

3.4 FIXTURE OUTLETS IN CEILINGS (MINIMUM) SHALL BE 4" OCTAGONAL X 1–1/2" DEEP (4–11/16" OCTAGONAL X 2–1/2" DEEP WHERE REQUIRED TO ACCOMMODATE LARGER CONDUIT OR LARGER NUMBER OF WIRES).

3.5 GANG BOXES SHALL BE ONE PIECE (MINIMUM), 2–1/8" DEEP.

3.6 PROVIDE FLUSH FLOOR BOX SERIES 880 BY WIRE MOLD WITH DUPLEX RECEPTACLE FOR WOOD PLATFORM AT DISPLAY SHOW WINDOWS, BOX WITH COVER PLATE FLANGE: CAT. #880W1–B17TCAL AND BRUSHED ALUMINUM COVER PLATE: CAT. #828R–TCAL WITH FLIP LID TO PROTECT RECEPTACLE WHEN NOT IN USE. BOTH FLANGE AND COVER PLATE SHALL HAVE BRUSHED ALUMINUM FINISH. UL SCRUB LISTED.

3.7 FLUSH MOUNT BOXES IN ALL FINISHED WALLS, INSTALL THE PLASTER RINGS IN DRY WALLED PLASTERED WALLS AND RAISED COVERS AS REQUIRED IN WALLS WITH OTHER FINISHES SO THAT THE COVER PLATES FIT TIGHTLY AGAINST BOXES OR RINGS. 3/16" MAXIMUM GAPS ARE ALLOWED FOR NONCOMBUSTIBLE WALLS.

3.8 ADJUST LOCATION OF OUTLETS IN MASONRY OR TILE CONSTRUCTION TO OCCUR IN THE NEAREST JOINT TO THE HEIGHT SPECIFIED. HEIGHTS SHALL MEET A.D.A. REQUIREMENTS.

3.9 SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY.

3.10 CLEAN BOXES OF ALL FOREIGN MATTER PRIOR TO THE INSTALLATION OR WIRING OR DEVICES.

3.11 MOUNTING HEIGHTS ON THE DRAWINGS ARE TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.

DIVISION 16140 – WIRING DEVICES

1.0 WIRING DEVICES

1.1 WIRING DEVICE COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.

1.2 PROVIDE TOTALLY ENCLOSED, 20 AMPERE, 120/277 VOLT, QUIET A/C GENERAL USE SNAP SWITCHES.

1.3 SWITCHES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, P&S, OR LEVITON.

1.4 PROVIDE NEMA CONFIGURATION 5–20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES RATED FOR 20 AMPERES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

1.5 RECEPTACLES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, P&S OR LEVITON.

1.6 RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE DUPLEX CONVENIENCE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.

1.7 PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND WORKMANSHIP EQUAL TO THAT SPECIFIED FOR DUPLEX CONVENIENCE RECEPTACLES.

1.8 PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:

1.8a FINISHED AREAS: THERMOPLASTIC–COLOR TO MATCH DEVICE.

1.8b UNFINISHED AREAS: ZINC COATED SHEET METAL, ALUMINUM, OR CAST METAL AS APPROPRIATE FOR THE TYPE OF BOX.

1.8c EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKET, WEATHERPROOF, CROUSE–HINDS "WLRD" FOR DUPLEX RECEPTACLES AND WLRS FOR SINGLE RECEPTACLES OR EQUAL.

1.8d TELEPHONE COMMUNICATIONS, AND SIGNAL OUTLET PLATES, SHALL MATCH THOSE USED FOR RECEPTACLES AND SWITCHES. ALL OUTLET AND/OR JUNCTION BOXES SHALL BE COMPLETE WITH A COVER PLATE BY THIS CONTRACTOR.

1.8e WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVER PLATE.

1.9 LOCATE THE SWITCHES APPROXIMATELY 4'–0" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS OTHERWISE INDICATED. THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL.

1.10 LOCATE RECEPTACLES APPROXIMATELY 1'–6" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS NOTED OTHERWISE THE LONG DIMENSION OF RECEPTACLES SHALL BE VERTICAL.

DIVISION 16410 – SAFETY SWITCHES

1.0 SAFETY SWITCHES

1.1 SAFETY SWITCHES SHALL BE THE ENCLOSED HEAVY–DUTY TYPE (TYPE HD) WITH QUICK–MAKE, QUICK–BREAK MECHANISM AND EXTERNAL PAD LOCKABLE OPERATING HANDLE.

1.2 SAFETY SWITCHES SHALL BE RATED FOR 240 OR 600 VOLTS AS APPLICABLE. THEY SHALL BE HORSEPOWER RATED WHEN USED IN MOTOR CIRCUITS.

1.3 SAFETY SWITCHES SHALL BE FUSIBLE OR NON–FUSIBLE 2, 3 OR 4 POLE AS INDICATED ON THE DRAWINGS.

1.4 SAFETY SWITCHES SHALL BE SINGLE THROW UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

1.5 ENCLOSURES SHALL BE NEMA 1 INDOORS AND NEMA 3R OUTDOORS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

1.6 MANUFACTURER SHALL BE SQUARE D, SEIMENS OR CULTER–HAMMER.

1.7 MOUNT THE SAFETY SWITCHES SECURELY BETWEEN 3' X 6' LEVELS ABOVE THE FLOOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

1.8 MOUNT THE SAFETY SWITCHES SECURELY BETWEEN 3' X 6' LEVELS ABOVE THE FLOOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

1.9 SWITCHES ON BLOCK WALLS SHALL BE MOUNTED ON A 3/4" PLYWOOD BACKBOARD, WHERE LOCATED INDOORS.

DIVISION 16442 – DISTRIBUTION AND PANELBOARDS

1.0 LIGHTING CONTROL SYSTEM

1.1 GENERAL INTRODUCTION: THE WORK COVERED IN THIS SECTION IS SUBJECT TO ALL THE REQUIREMENTS IN THE GENERAL CONDITIONS OF THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE ALL OF THE WORK IN THIS SECTION WITH ALL OF THE TRADES COVERED IN OTHER SECTIONS OF THE SPECIFICATION TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

1.2 DESCRIPTION OF THE WORK:

1.2a THE EXTENT OF THE LIGHTING CONTROL SYSTEM WORK IS INDICATED BY THE DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. IT IS DEFINED TO INCLUDE, BUT NOT BY WAY OF LIMITATION:

1.2a1 PANELBOARDS CONTAINING INTEGRAL CONTACTORS.

1.2a2 CONTROL ELECTRONICS FOR CONTACTORS AND TIMECLOCKS AND MONITORING THE STATUS OF THE SYSTEM.

1.2a3 ASSOCIATED LOW AND LINE VOLTAGE OVERRIDE SWITCHES AND LIGHT SENSORS.

1.2a4 TIMECLOCKS, CONTACTORS.

1.2a5 ANY WORK STATIONS, SOFTWARE AND COMMUNICATIONS HARDWARE.

1.2b SYSTEM INSTALLATION INCLUDES THE FOLLOWING:

1.2b1 WIRING OF BRANCH CIRCUIT CONDUCTORS AND CONTACTORS

1.2b2 INSTALLATION OF EXTERNAL CONTROL DEVICES AND WIRING TO THE CONTROLLER.

1.2b3 INSTALLATION OF COMMUNICATIONS CONDUCTORS AND ASSOCIATED HARDWARE.

1.3 WARRANTY: MANUFACTURER SHALL WARRANT SPECIFIED EQUIPMENT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR AT LEAST ONE YEAR FROM THE DATE OF INSTALLATION OR EIGHTEEN MONTHS FROM DATE OF PURCHASE.

2.0 PANELBOARDS

2.1 ACCEPTABLE MANUFACTURERS: SQUARE D, CUTLER HAMMER, SEIMENS, G.E. FOR PRICING AND ORDERING INFORMATION, PROVIDE EQUIPMENT AS SPECIFIED HEREIN. NO SUBSTITUTIONS PERMITTED. CONTRACTOR SHALL CONTACT NO LATER THAN 5 DAYS AFTER JOB IS AWARDED TO ENSURE LEAD TIMES DO NOT AFFECT PROJECT SCHEDULE. PANELBOARDS SHALL BE ENCLOSED DEAD FRONT SAFETY TYPE WITH FEATURES AND RATINGS AS SCHEDULED ON THE DRAWINGS.

2.2 PANELS KNOWN AS "LOAD CENTERS" ARE UNACCEPTABLE.

2.3 MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION.

2.4 ALL BUS BARS SHALL BE RECTANGULAR, SOLID COPPER.

2.5 SPACE, WHERE SHOWN IN PANEL SCHEDULES, DESIGNATES SPACE FOR FUTURE PROTECTIVE DEVICES AND SHALL INCLUDE BUS AND SUPPORT.

2.6 INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'–6" ABOVE THE FINISHED FLOOR.

2.7 ENTRIES ON DIRECTORY CARDS SHALL BE TYPED, COMPLETE AND ACCURATE.

2.8 ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.

2.9 ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS AS NEAR AS POSSIBLE TO CIRCUIT NUMBERS ON THE DRAWINGS. AT COMPLETION OF JOB, ELECTRICAL CONTRACTOR SHALL TAKE CURRENT READING CHECKS OF RESPECTIVE PHASES. A MINIMUM OF CIRCUIT CONNECTIONS SHALL BE REARRANGED TO BALANCE AS CLOSELY AS POSSIBLE, THE LOAD IN THE PANEL.

2.10 ALL BREAKERS SHALL BE BOLT–ON TYPE.

2.11 PROVIDE (3) SPARE 1" CONDUITS INTO ACCESSIBLE CEILING SPACE WHERE PANELS ARE FLUSH–MOUNTED.

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REVISIONS

NO.	DESCRIPTION	ER. BY	DATE

PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

SEAL

STATE OF MISSOURI DARRELL L. CASE E-23303 REGISTERED PROFESSIONAL ENGINEER

DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL
SPECIFICATIONS

DRAWN BY	JVH
SCALE	3/16"=1'–0"
PROJECT NO.	REAC–01–19
ISSUE DATE	03/27/2019
SHEET	E0

GENERAL NOTES

1. WHERE MULTI-WIRE BRANCH CIRCUITS ARE USED, CONTRACTOR TO FOLLOW NEC 210.4(B) AND PROVIDE HANDLE-TIES ACROSS ALL BREAKERS WHICH SHARE THE NEUTRAL.
2. E.C. TO PROVIDE PROPER FITTINGS, ADAPTERS AND FIRE STOPPING AS REQUIRED TO MEET THE PENETRATION REQUIREMENTS AT EXPANSION JOINTS AND FIRE-RATED WALLS IF APPLICABLE.
3. AT COUNTERTOP WORK SURFACES, PROVIDE GROMMETS FOR BELOW COUNTERTOP DEVICES.
4. ALL DEVICE AND COVERPLATE FINISHES TO BE DETERMINED BY INTERIOR DESIGNER.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
6. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON MECHANICAL PLANS OR AS-BUILTS FOR RELATED DEVICE AND FEEDER SIZING.
7. COORDINATE ALL DEVICES LOCATED IN MILLWORK WITH MILLWORK CONTRACTOR AND ARCHITECT, PRIOR TO ROUGH-IN.
8. GENERAL CONTRACTOR TO COORDINATE REQUIRED SUBMITTALS TO FIRE DEPARTMENT FOR FIRE ALARM SYSTEM.
9. GENERAL CONTRACTOR TO COORDINATE REQUIRED SUBMITTALS TO FIRE DEPARTMENT FOR AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
10. EQUIPMENT SHALL BE U.L. LISTED APPROVED, OR OTHER NATIONAL RECOGNIZED TESTING AGENCY.
11. RECEPTACLES SHALL BE GROUNDED, IN ACCORDANCE TO NATIONAL ELECTRICAL CODE NEC 250-146.
12. ALL OUTLETS IN DESIGNATED KITCHEN SPACES, BATHING AREAS, MOP SINK SPACES, ETC. SHALL BE PROVIDED WITH GFCI DEVICES.
13. ALL INSTALLATIONS SHALL COMPLY PER NFPA 150 AS CLASSIFIED WITH MULTIPLE MIXED SUBCLASS FACILITIES. ALL FIRE ALARM, SUPPRESSION AND SPRINKLERS SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 150 AND ALL APPLICABLE ADDITIONAL CODES IN COORDINATION WITH ALL DISCIPLINES.
14. DATA SYSTEMS AND DATA RECEPTACLES NOT ADDRESSED PER THESE PLANS. E.C. TO COORDINATE WITH TENANT'S DATA/TELEPHONE PROVIDER FOR EXACT SCOPE OF WORK UNDER SEPARATELY DERIVED BID.
15. CONTRACTOR SHALL ENSURE BRANCH CIRCUIT VOLTAGE DROP DOES NOT EXCEED 3%, AND TOTAL CONNECTED VOLTAGE DROP TO PRIMARY SERVICE DOES NOT EXCEED 5%. ALL WIRE SIZES GIVEN SHALL BE EXPRESSED AS MINIMUM HOME-RUN WIRE SIZE NOT TO BE REDUCED, AND INCREASED AS NECESSARY.
16. ALL CIRCUITS AND CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY. E.C. SHALL CONNECT TO EXISTING SPARES MADE AVAILABLE BY DEMOLITION. IF ADDITIONAL CIRCUIT BREAKERS ARE REQUIRED, E.C. SHALL FURNISH AND INSTALL AS REQUIRED.
17. ALL OUTLETS IN DESIGNATED ANIMAL HOUSING SPACES, EXERCISE YARDS, AND SPACES DESIGNATED FOR USE WITH POWER WASHING EQUIPMENT SHALL BE GFCI TYPE AND PROVIDED WITH WATERPROOF HOUSING.

KEYED NOTES

1. PROVIDE WIREMOLD 4000 SERIES RACEWAY WITH POWER AND DATA OUTLETS LOCATED 24" ON CENTER. INSTALL RACEWAY 6" ABOVE COUNTER WITH LENGTH AS REQUIRED TO FOLLOW COUNTER. VERIFY REQUIREMENTS AND CIRCUITING PRIOR TO ROUGH-IN.
2. E.C. TO PROVIDE FLUSH MOUNTED IN-FLOOR DEVICES. COORDINATE EXACT SPECIFICATIONS AND REQUIREMENTS WITH TENANT.

1 FIRST FLOOR PLAN - POWER LAYOUT
3/16" = 1'-0"

REINHOLD ELECTRIC
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REVISIONS

NO.	DESCRIPTION	ER. BY	DATE

PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

SEAL

STATE OF MISSOURI DARRELL L. CASE NUMBER PE-2004019736 PROFESSIONAL ENGINEER

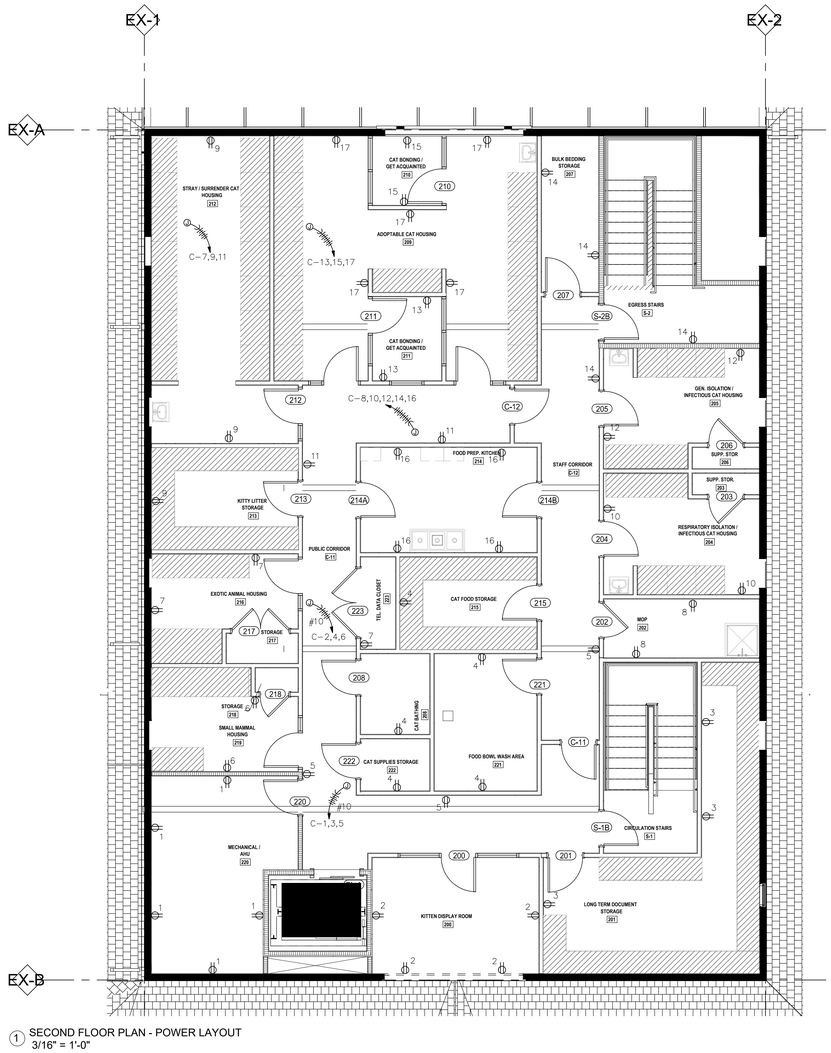
DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL POWER PLAN - 1ST FLOOR

DRAWN BY	SHEET
JVH	E1.1
SCALE	
3/16"=1'-0"	
PROJECTNO.	
REAC-01-19	
ISSUE DATE	
03/27/2019	

GENERAL NOTES

1. WHERE MULTI-WIRE BRANCH CIRCUITS ARE USED, CONTRACTOR TO FOLLOW NEC 210.4(B) AND PROVIDE HANDLE-TIES ACROSS ALL BREAKERS WHICH SHARE THE NEUTRAL.
2. E.C. TO PROVIDE PROPER FITTINGS, ADAPTERS AND FIRE STOPPING AS REQUIRED TO MEET THE PENETRATION REQUIREMENTS AT EXPANSION JOINTS AND FIRE-RATED WALLS IF APPLICABLE.
3. AT COUNTERTOP WORK SURFACES, PROVIDE GROMMETS FOR BELOW COUNTERTOP DEVICES.
4. ALL DEVICE AND COVERPLATE FINISHES TO BE DETERMINED BY INTERIOR DESIGNER.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
6. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON MECHANICAL PLANS OR AS-BUILTS FOR RELATED DEVICE AND FEEDER SIZING.
7. COORDINATE ALL DEVICES LOCATED IN MILLWORK WITH MILLWORK CONTRACTOR AND ARCHITECT, PRIOR TO ROUGH-IN.
8. GENERAL CONTRACTOR TO COORDINATE REQUIRED SUBMITTALS TO FIRE DEPARTMENT FOR FIRE ALARM SYSTEM.
9. GENERAL CONTRACTOR TO COORDINATE REQUIRED SUBMITTALS TO FIRE DEPARTMENT FOR AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
10. EQUIPMENT SHALL BE U.L. LISTED APPROVED, OR OTHER NATIONAL RECOGNIZED TESTING AGENCY.
11. RECEPTACLES SHALL BE GROUNDED, IN ACCORDANCE TO NATIONAL ELECTRICAL CODE NEC 250-146.
12. ALL OUTLETS IN DESIGNATED KITCHEN SPACES, BATHING AREAS, MOP SINK SPACES, ETC. SHALL BE PROVIDED WITH GFCI DEVICES.
13. ALL INSTALLATIONS SHALL COMPLY PER NFPA 150 AS CLASSIFIED WITH MULTIPLE MIXED SUBCLASS FACILITIES. ALL FIRE ALARM, SUPPRESSION AND SPRINKLERS SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 150 AND ALL APPLICABLE ADDITIONAL CODES IN COORDINATION WITH ALL DISCIPLINES.
14. DATA SYSTEMS AND DATA RECEPTACLES NOT ADDRESSED PER THESE PLANS. E.C. TO COORDINATE WITH TENANT'S DATA/TELEPHONE PROVIDER FOR EXACT SCOPE OF WORK UNDER SEPARATELY DERIVED BID.
15. CONTRACTOR SHALL ENSURE BRANCH CIRCUIT VOLTAGE DROP DOES NOT EXCEED 3%, AND TOTAL CONNECTED VOLTAGE DROP TO PRIMARY SERVICE DOES NOT EXCEED 5%. ALL WIRE SIZES GIVEN SHALL BE EXPRESSED AS MINIMUM HOME-RUN WIRE SIZE NOT TO BE REDUCED, AND INCREASED AS NECESSARY.
16. ALL CIRCUITS AND CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY. E.C. SHALL CONNECT TO EXISTING SPARES MADE AVAILABLE BY DEMOLITION. IF ADDITIONAL CIRCUIT BREAKERS ARE REQUIRED, E.C. SHALL FURNISH AND INSTALL AS REQUIRED.
17. ALL OUTLETS IN DESIGNATED ANIMAL HOUSING SPACES, EXERCISE YARDS, AND SPACES DESIGNATED FOR USE WITH POWER WASHING EQUIPMENT SHALL BE GFCI TYPE AND PROVIDED WITH WATERPROOF HOUSING.



1 SECOND FLOOR PLAN - POWER LAYOUT
3/16" = 1'-0"

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PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

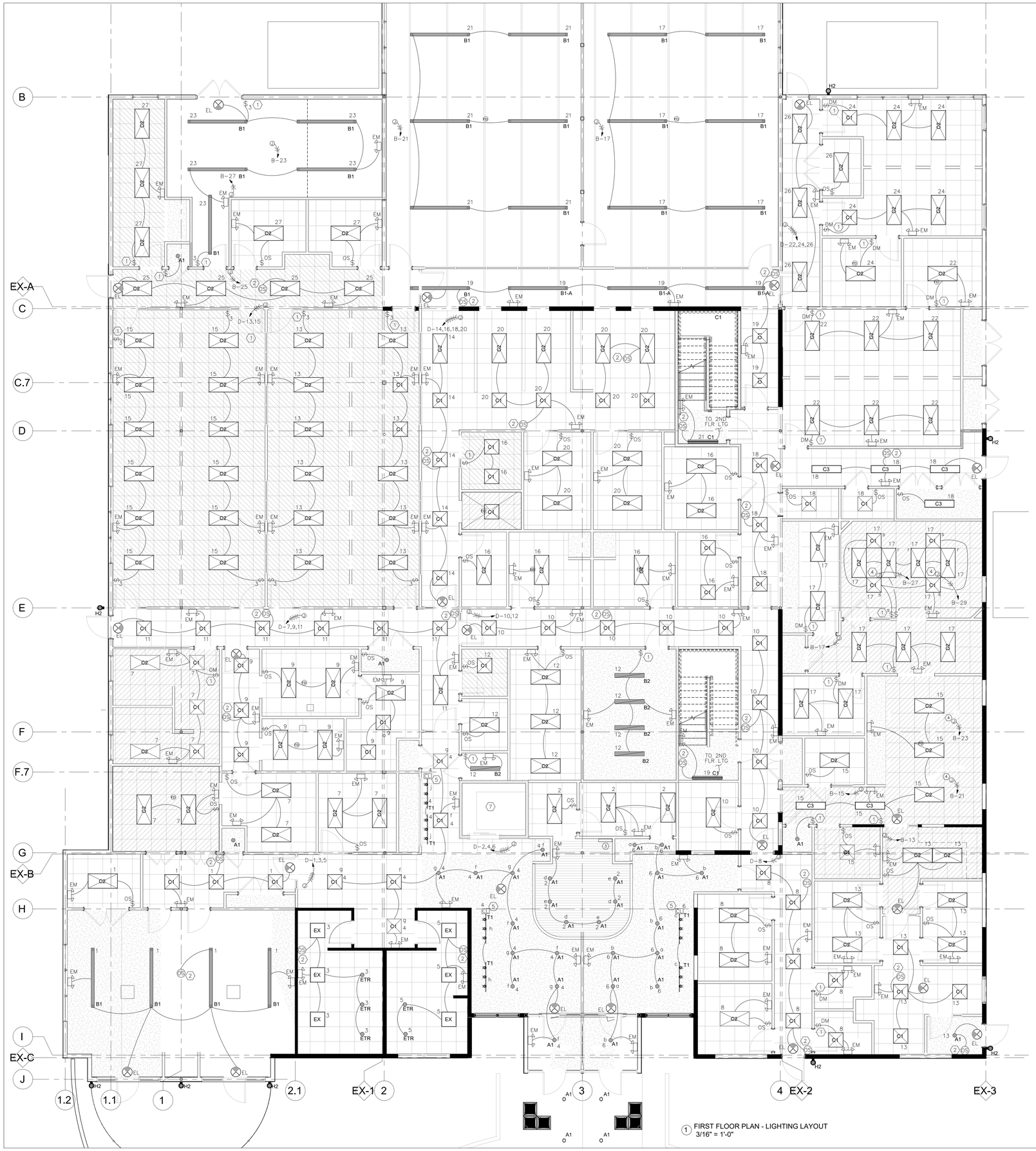
SEAL

STATE OF MISSOURI * ENGINEER * NUMBER PE-2009019964 CASE, DARRELL

DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL POWER PLAN - 2NDFLOOR

DRAWN BY	JVH
SCALE	3/16"=1'-0"
PROJECTNO.	REAC-01-19
ISSUE DATE	03/27/2019
SHEET	E1.2



1 FIRST FLOOR PLAN - LIGHTING LAYOUT
3/16" = 1'-0"

GENERAL NOTES

1. ALL LIGHTING INSTALLATIONS SHALL BE INSTALLED PER THE 2008 N.E.C. CODE, 2015 I.E.C.C. CODE AND ALL APPLICABLE CODES AND REGULATIONS.
2. ALL SPACES WHERE ANIMAL CARE IS DIRECTLY PROVIDED AND/OR ANIMAL HOLDING, SPACES WHERE FLOOR SPACE IS COMPLETELY OCCUPIED BY EQUIPMENT, AND ALL MECHANICAL AND/OR ELECTRICAL ROOMS, SHALL BE EXEMPT FROM AUTOMATIC TIME SWITCH CONTROLS OR AUTOMATIC OCCUPANCY BASED CONTROLS AS MEETING I.E.C.C. C405.2.2 EXCEPTION 2 / EXCEPTION 3. SEE KEYED NOTE 1 FOR REFERENCE.
3. ALL LIGHTING IN KITCHEN SPACES, BATHING AREAS, AND SHOWERING / WASHING SPACES FOR HUMANS OR ANIMALS SHALL BE PROVIDED WITH WATER AND VAPOR PROOF LENSES. LIGHTING CONTROLS IN BATHING, SHOWER/WASH SPACES FOR HUMANS OR ANIMALS SHALL BE RATED FOR WET/DAMP LOCATIONS AS NECESSARY.
4. ALL SPACES NOT PROVIDED AUTOMATIC OCCUPANCY LIGHTING CONTROL SWITCHING AS DETERMINED BY I.E.C.C. 2015, OR WHERE NOT PERMITTED FOR MANUAL-ONLY CONTROLS, SHALL BE CONTROLLED VIA AUTOMATIC TIMECLOCK AS SPECIFIED BY TENANT. OUTDOOR LIGHTING SHALL BE CONTROLLED IN COORDINATION WITH DAYLIGHT SENSOR CONTROLS.
5. ALL FIXTURES INCLUDING MODEL, LENS, COLOR, FINISH, ETC. ARE SPECIFIED BY TENANT OR APPROVED LIGHTING DESIGNER. ANY SUBSTITUTIONS, RELOCATIONS, OR ALTERATIONS FROM PLANS SHALL BE COORDINATED WITH RESPONSIBLE ALL RESPONSIBLE PARTIES INCLUDING ENGINEER OF RECORD.
6. SPACE EXEMPT FROM GENERAL DAYLIGHTING REQUIREMENTS IN ALL ANIMAL CARE AND HOLDING LOCATIONS PER I.E.C.C. C405.2.3 EXCEPTIONS.
7. EMERGENCY LIGHTING IS TO MEET ALL APPLICABLE CODES AND REGULATIONS. EMERGENCY EGRESS LIGHTING SHALL MEET A MINIMUM AVERAGE OF 1 FOOT-CANDLE AND MINIMUM ALLOWABLE OF 0.1 FOOT-CANDLE ALONG PATHWAY OF EGRESS. ALL EMERGENCY LIGHTING IS REQUIRED TO BE OPERABLE CONTINUOUSLY FOR MINIMUM OF 90 MINUTES. FIXTURE LOCATIONS SPECIFIED PER THESE PLANS. FIXTURE SPECIFICATIONS SHALL BE SPECIFIED BY TENANT'S LIGHTING DESIGNER WHERE MEETING THESE MINIMUM REQUIREMENTS. SPACES AND HOLDING CELLS WHERE ANIMALS ARE KEPT SHALL BE ILLUMINATED SUCH AS NECESSARY FOR SAFE EVACUATION.
8. ALL INDOOR LIGHTING PROVIDED AUTOMATIC TIMECLOCK CONTROLS SHALL BE PROVIDED WITH MANUAL OVERRIDE CONTROLS AND DIMMING SWITCHES MEETING ALL APPLICABLE CODES AND REQUIREMENTS.
9. EMERGENCY LIGHT FIXTURES ALONG EGRESS HALLWAYS DESIGNED PER LAYOUT OF NO GREATER THAN 20'-0" CENTERS WITH AN INTENDED DISTRIBUTION RANGE OF 15'-0" FROM CENTER. REVISE LAYOUT AS NECESSARY BASED ON EQUIPMENT SPECIFICATIONS.

KEYED NOTES

1. PER GENERAL DESIGN NOTE 2, SPACE SHALL BE PROVIDED MANUAL LIGHTING CONTROLS MEETING ALL REQUIREMENTS PER I.E.C.C. 2015. ROOMS USING MANUAL CONTROLS SHALL HAVE MANUAL DIMMING CONTROLS WHERE INDICATED.
2. E.C. TO PROVIDE OVERHEAD OCCUPANCY SENSOR FOR CONTROL OF LIGHTS AS INDICATED. COORDINATE LOCATION IN FIELD WITH MECHANICAL CONTRACTOR AND ENSURE SUFFICIENT COVERAGE OF SPACE. PROVIDE ADDITIONAL SENSORS AS NECESSARY. COORDINATE MODEL WITH TENANT. DEVICES LAID OUT PER MINIMUM 20FT RADIUS SENSING RANGE AT 8FT MOUNTING HEIGHT.
3. PROPOSED SWITCHBANK LOCATION FOR LOBBY / RECEPTION AREA LIGHTING. PROVIDE 2-HOUR MANUAL OVERRIDE AND DIMMING SWITCHES FOR CONTROL OF AREA LIGHTING AS SHOWN. COORDINATE WITH TENANT FOR FINAL LOCATION OF SWITCHBANK AND ASSOCIATED AUTOMATIC TIMECLOCK. SWITCHES SHALL BE INSTALLED IN ROWS OF (5) SWITCHES PER ROW AND TOP-MOUNTED NO GREATER THAN 48" A.F.F. DO NOT CUT STUDS TO ACCOMMODATE SWITCHES. SEE SWITCHBANK DETAIL FOR CONTROL INFORMATION.
4. E.C. TO INSTALL OVERHEAD ARM-MOUNTED EXAMINATION / SURGERY LIGHTING. PROVIDE JUNCTION BOX FOR MOUNTING OF EQUIPMENT AND INSTALL PER ALL MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS. PROVIDE LOCAL CONTROL SWITCH IF NOT EXISTING ON EQUIPMENT.
5. E.C. TO PROVIDE 1AMP END-FEED TRACK CURRENT LIMITING DEVICE FOR USE WITH TRACK LIGHTING AS SHOWN.
6. E.C. TO PROVIDE WP JUNCTION BOX AS SHOWN. COORDINATE HEIGHT WITH EXISTING STRUCTURE. PROVIDE CONDUIT W/ PULL STRING BACK TO TIMECLOCK SERVING LOBBY. SIGN INSTALLATION SHALL BE PROVIDED UNDER SEPARATE BID.
7. ELEVATOR SPACE EXISTING TO REMAIN. E.C. TO CLEAN AND RE-LAMP EXISTING FIXTURES AS NECESSARY.

LOBBY/RECEPTION SWITCHBANK DETAIL (3)

a	b	c	d	e
SURRENDER GEN. LTG	SURRENDER GEN. LTG	SURRENDER TRACK	RECEPTION REC. CANS	RECEPTION REC. CANS
f	**g**	**h**	**j**	**--**
ADOPTION GEN. LTG	ADOPTION GEN. LTG	ADOPTION TRACK LTG	HALLWAY TRACK LTG	FUTURE SPARE

LIGHTING SCHEDULE

FIXTURE NAME	QUANTITY	MODEL NO.	WATTAGE	DESCRIPTION	MANUFACTURER
A1	45	LDN6 40_10 L06AR LSS	12.8	6" REC. CAN	LITHONIA
B1	25	CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI	66.5	8' LINEAR LED STRIP LIGHT	LITHONIA
B2	8	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI	34.8	4' LINEAR LED STRIP LIGHT	LITHONIA
C1	75	EPANL 22 34L 40K	31.4	2'X2' LED PANEL	LITHONIA
C2	115	EPANL 24 40L 40K	39.4	2'X4' LED PANEL	LITHONIA
C3	11	EPANL 14 40L 40K	38.0	1'X4' LED PANEL	LITHONIA
T1	18	R600L 40K 80CRI FL	10.1	LED TRACK HEAD	JUNO
S1	5	BLWP4 48L ADSM LP840	39.8	4' LINEAR LED STRIP LIGHT	LITHONIA
H2	7	TO BE SPECIFIED BY TENANT	--	EXTERIOR WALL SCONCE	--
EL	--	TO BE SPECIFIED BY TENANT.	--	EMERGENCY EXIT SIGN, OPT. REMOTE HEAD	--
EM	--	TO BE SPECIFIED BY TENANT	--	EMERGENCY EGRESS FIXTURE	--

NOTES:

1) ALL GENERAL LIGHTING FIXTURES SPECIFIED BY TENANT, TENANT'S LIGHTING VENDOR.
2) QUANTITIES PROVIDED PER WHOLE BUILDING ENVELOPE AND NOT PER SPACE OR PER FLOOR. E.C. TO VERIFY ALL QUANTITIES PRIOR TO PURCHASING.
3) ALL SUBSTITUTIONS AND CHANGES SHALL BE CONFIRMED BY TENANT PRIOR TO ANY ALTERATIONS.
4) CONTRACTOR SHALL VERIFY FIXTURE QUANTITIES, FIXTURE MODELS PRIOR TO ORDERING WITH LIGHTING VENDOR.
5) EXTERIOR LIGHTING FIXTURES TO BE CONNECTED TO EXISTING BUILDING EXTERIOR LIGHTING CIRCUITS AND CONTROLS. FIELD VERIFY EXISTING CONDITIONS.
6) EMERGENCY LIGHTING FIXTURES 'EM' AND 'EL' LAID OUT PER GENERAL NOTE 9. E.C. TO PROVIDE ADDITIONAL FIXTURES AND/OR RELOCATE FIXTURES CALLED OUT AS NECESSARY TO MEET EGRESS LIGHTING REQUIREMENTS. COORDINATE AS NECESSARY WITH ANY EMERGENCY SYSTEMS.
7) FIXTURES DESIGNATED 'ETR' OR 'EX' ARE EXISTING TO REMAIN. FIXTURES TO BE CLEANED AND RE-LAMPED AS NECESSARY. NEW CONTROLS SHALL BE PROVIDED TO MEET PLANS.
8) E.C. IS TO VERIFY ALL MOUNTING HEIGHTS AND METHODS OF ALL FIXTURES PRIOR TO ANY INSTALLATION.

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PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

SEAL

STATE OF MISSOURI · NUMBER PE-2009019850 · DARRELL L. CASE · PROFESSIONAL ENGINEER

DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL LIGHTING PLAN - 1ST FLOOR

DRAWN BY	JVH
SCALE	3/16"=1'-0"
PROJECTNO.	REAC-01-19
ISSUE DATE	03/27/2019

SHEET
E2.1

GENERAL NOTES

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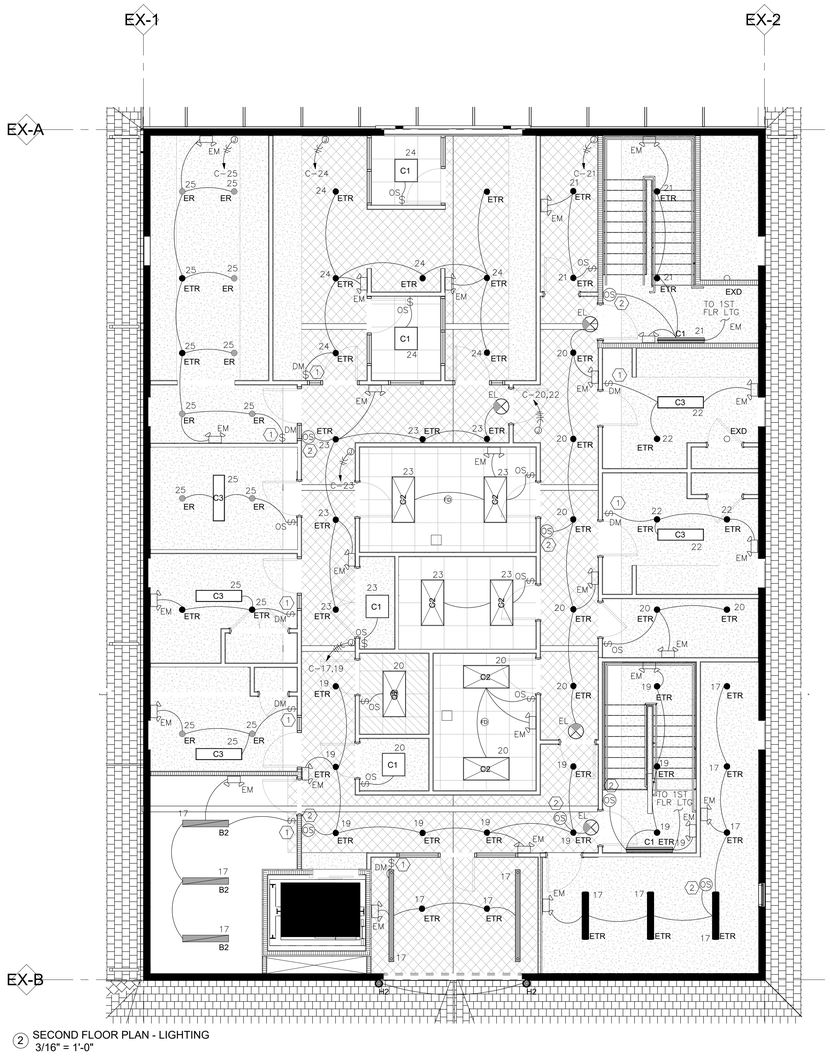

② SECOND FLOOR PLAN - LIGHTING
3/16" = 1'-0"

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JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

SEAL

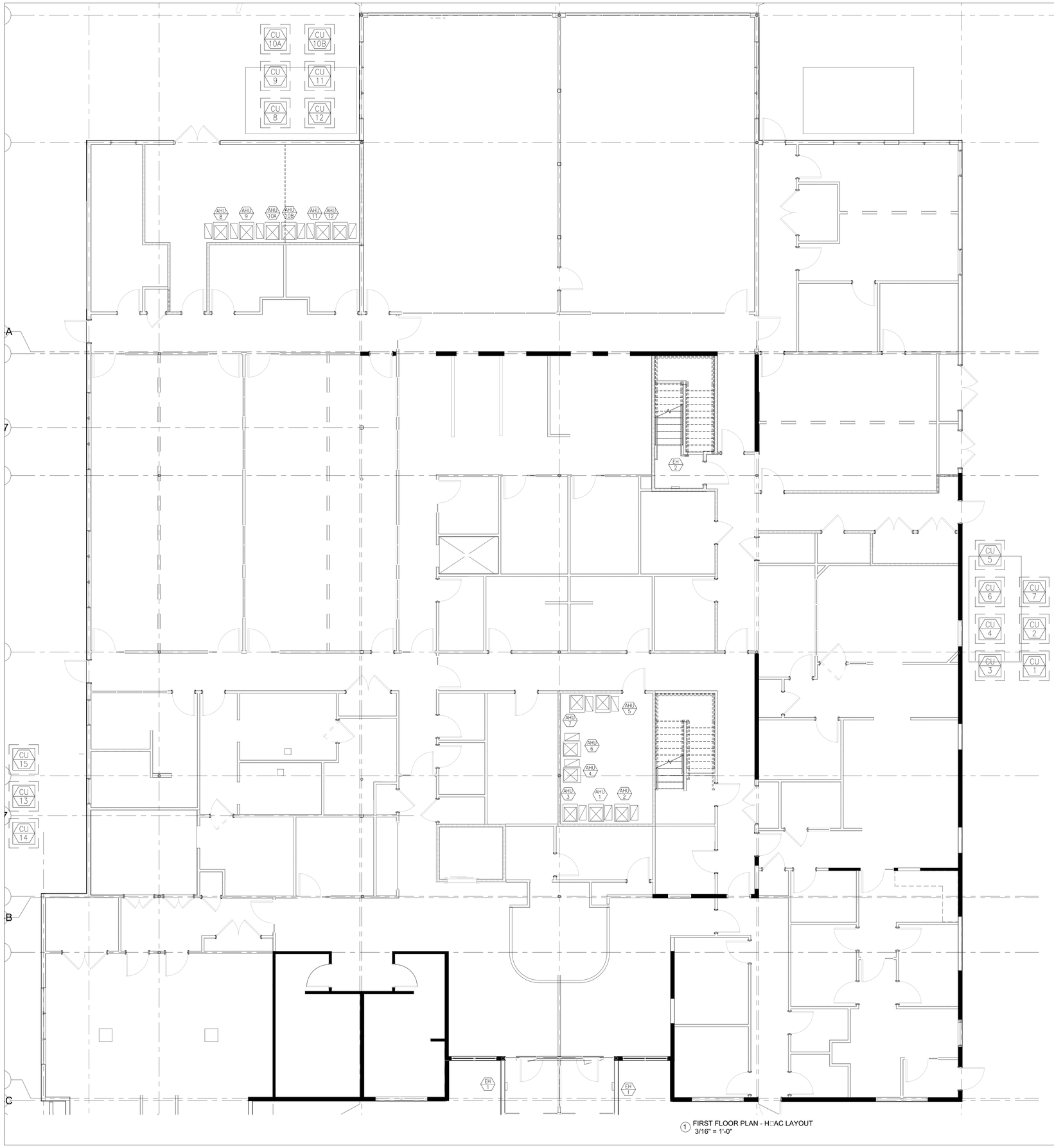
STATE OF MISSOURI * DARRELL L. CASE * NUMBER PE-2004 * REGISTERED PROFESSIONAL ENGINEER

DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL LIGHTING PLAN - 2ND FLOOR

DRAWN BY	JVH
SCALE	3/16"=1'-0"
PROJECT NO.	REAC-01-19
ISSUE DATE	03/27/2019

SHEET
E2.2



1 FIRST FLOOR PLAN - HVAC LAYOUT
3/16" = 1'-0"

MECHANICAL UNIT DEVICE SCHEDULE

UNIT NAME	MCA/MOCP	VOLT/PHASE/HZ	MAX LOAD KW DEMAND	N.F. DISC.	PANELBOARD CIRCUIT	MIN. WIRE SIZE + GROUND WIRE
AHU-1	12.9/20	120/1/60	1.55 KW	30A	ME1-1	#12 + #12GND
CU-1	32/50	208-230/1/60	6.66 KW	60A	ME1-2,4	#8 + #10GND
AHU-2	13.5/20	120/1/60	1.62 KW	30A	ME1-6	#12 + #12GND
CU-2	21/35	208-230/1/60	4.37 KW	60A	ME1-3,5	#8 + #10GND
AHU-3	13.5/20	120/1/60	1.62 KW	30A	ME1-7	#12 + #12GND
CU-3	18/30	208-230/1/60	3.74 KW	30A	ME1-8,10	#10 + #10GND
AHU-4	12.9/20	120/1/60	1.55 KW	30A	ME1-12	#12 + #12GND
CU-4	32/50	208-230/1/60	6.66 KW	60A	ME1-9,11	#8 + #10GND
AHU-5	12.9/20	120/1/60	1.10 KW	30A	ME1-13	#12 + #12GND
CU-5	17/25	208-230/1/60	3.54KW	30A	ME1-18,20	#10 + #10GND
AHU-6	12.9/20	120/1/60	1.55 KW	30A	ME1-14	#12 + #12GND
CU-6	24/40	208-230/1/60	4.99 KW	60A	ME1-15,17	#8 + #10GND
AHU-7	12.9/20	120/1/60	1.55 KW	30A	ME1-19	#12 + #12GND
CU-7	24/40	208-230/1/60	4.99 KW	60A	ME1-21,23	#8 + #10GND
AHU-8	13.5/20	120/1/60	1.62 KW	30A	MCB-1	#12 + #12GND
CU-8	21/35	208-230/1/60	4.37 KW	60A	MCB-2,4	#8 + #10GND
AHU-9	12.9/20	120/1/60	1.55 KW	30A	MCB-6	#12 + #12GND
CU-9	24/40	208-230/1/60	4.99 KW	60A	MCB-3,5	#8 + #10GND
AHU-10A	13.5/20	120/1/60	1.62 KW	30A	MCB-7	#12 + #12GND
CU-10A	18/30	208-230/1/60	3.74 KW	30A	MCB-8,10	#10 + #10GND
AHU-10B	13.5/20	120/1/60	1.62 KW	30A	MCB-12	#12 + #12GND
CU-10B	18/30	208-230/1/60	3.74 KW	30A	MCB-9,11	#10 + #10GND
AHU-11	12.9/20	120/1/60	1.55 KW	30A	MCB-13	#12 + #12GND
CU-11	32/50	208-230/1/60	6.66 KW	60A	MCB-18,20	#8 + #10GND
AHU-12	12.9/20	120/1/60	1.55 KW	30A	MCB-14	#12 + #12GND
CU-12	32/50	208-230/1/60	6.66 KW	60A	MCB-15,17	#8 + #10GND
AHU-13	12.9/20	120/1/60	1.55 KW	30A	ME2-1	#12 + #12GND
CU-13	24/40	208-230/1/60	4.99 KW	60A	ME2-2,4	#8 + #10GND
AHU-14	12.9/20	120/1/60	1.55 KW	30A	ME2-3	#12 + #12GND
CU-14	24/40	208-230/1/60	4.99 KW	60A	ME2-6,8	#8 + #10GND
AHU-15	12.9/20	120/1/60	1.55 KW	30A	ME2-5	#12 + #12GND
CU-15	24/40	208-230/1/60	4.99 KW	60A	ME2-10,12	#8 + #10GND
EH-1	9.6/20	208-230/1/60	2.0 KW	30A	ME1-24,26 ME1-25,27	#12 + #12GND
EH-2	19.8/25	208-230/1/60	4.0 KW	30A	MDP-22,24	#8 + #10GND

NOTES:

1) WHERE MEETING N.E.C. REQUIREMENTS, A PANELBOARD BREAKER SWITCH, WHERE A MECHANICAL UNIT IS CONTROLLED BY A PANELBOARD IN THE SAME LOCATION, SHALL BE PERMITTED TO SERVE AS THE MAIN DISCONNECTING MEANS IN PLACE OF A DISCONNECT SWITCH.

2) DISCONNECTS, CONNECTIONS, CONDUIT, ETC. WHERE LOCATED OUTDOORS OR IN WET/DAMP LOCATIONS SHALL BE RATED NEMA 3R AND MADE WATER-RESISTANT.

3) ALL WORK SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR. VERIFY CONNECTION REQUIREMENTS, EQUIPMENT LOCATION, NECESSARY CLEARANCE, AND ENSURE BRANCH CIRCUIT VOLTAGE DROP DOES NOT EXCEED 3%.

4) EXHAUST FANS SHALL BE CIRCUITED TO AREA LIGHTING CIRCUIT SERVING SPACE. REFER TO MECHANICAL PLANS FOR INTERLOCKING REQUIREMENTS AND PROVIDE SINGLE PHASE DISCONNECTING MEANS AS REQUIRED PER N.E.C.

REINHOLD ELECTRIC
2511 Le[illegible]y Ferry Rd
St. Lou[illegible], MO 63125

Ædifica|case engineering
Ædifica Case Engineering
St. Louis, MO 63125
CERTIFICATE OF AUTHORITY NO. E-2000155315-D

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REVISIONS

NO.	DESCRIPTION	VER. BY	DATE

PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

SEAL

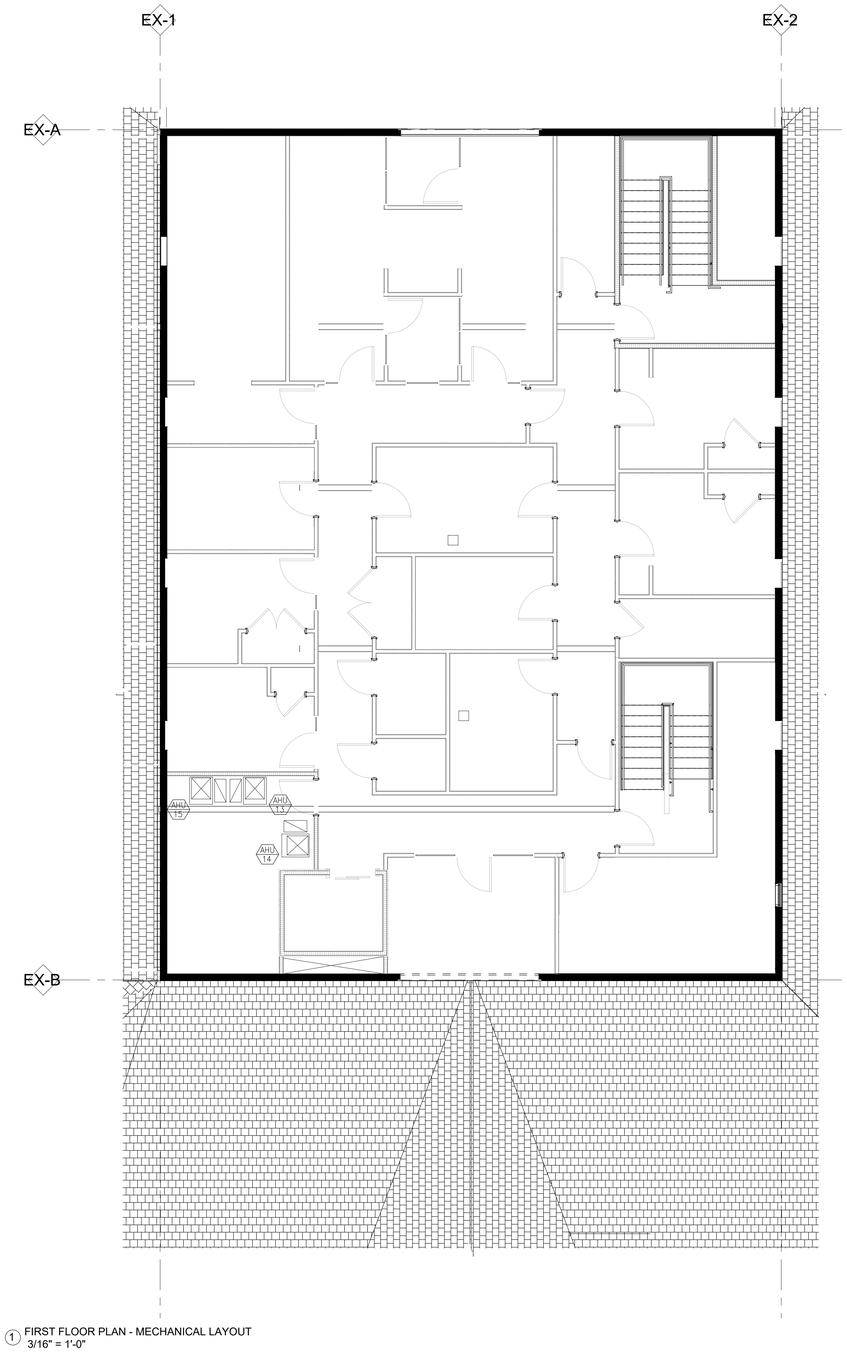
STATE OF MISSOURI * ENGINEER * DARRELL L. CASE NUMBER PE-2010019966 PROFESSIONAL

DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL HVAC PLAN - 1ST FLOOR

DRAWN BY	JVH
SCALE	3/16"=1'-0"
PROJECT NO.	REAC-01-19
ISSUE DATE	03/27/2019

SHEET
E3.1



1 FIRST FLOOR PLAN - MECHANICAL LAYOUT
3/16" = 1'-0"

MECHANICAL UNIT DE□ICE SCHEDULE

UNIT NAME	MCA/MOCP	VOLT/PHASE/HZ	MAX LOAD KW DEMAND	N.F. DISC.	PANELBOARD CIRCUIT	MIN. WIRE SIZE + GROUND WIRE
AHU-1	12.9/20	120/1/60	1.55 KW	30A	ME1-1	#12 + #12GND
CU-1	32/50	208-230/1/60	6.66 KW	60A	ME1-2,4	#8 + #10GND
AHU-2	13.5/20	120/1/60	1.62 KW	30A	ME1-6	#12 + #12GND
CU-2	21/35	208-230/1/60	4.37 KW	60A	ME1-3,5	#8 + #10GND
AHU-3	13.5/20	120/1/60	1.62 KW	30A	ME1-7	#12 + #12GND
CU-3	18/30	208-230/1/60	3.74 KW	30A	ME1-8,10	#10 + #10GND
AHU-4	12.9/20	120/1/60	1.55 KW	30A	ME1-12	#12 + #12GND
CU-4	32/50	208-230/1/60	6.66 KW	60A	ME1-9,11	#8 + #10GND
AHU-5	12.9/20	120/1/60	1.10 KW	30A	ME1-13	#12 + #12GND
CU-5	17/25	208-230/1/60	3.54KW	30A	ME1-18,20	#10 + #10GND
AHU-6	12.9/20	120/1/60	1.55 KW	30A	ME1-14	#12 + #12GND
CU-6	24/40	208-230/1/60	4.99 KW	60A	ME1-15,17	#8 + #10GND
AHU-7	12.9/20	120/1/60	1.55 KW	30A	ME1-19	#12 + #12GND
CU-7	24/40	208-230/1/60	4.99 KW	60A	ME1-21,23	#8 + #10GND
AHU-8	13.5/20	120/1/60	1.62 KW	30A	MCB-1	#12 + #12GND
CU-8	21/35	208-230/1/60	4.37 KW	60A	MCB-2,4	#8 + #10GND
AHU-9	12.9/20	120/1/60	1.55 KW	30A	MCB-6	#12 + #12GND
CU-9	24/40	208-230/1/60	4.99 KW	60A	MCB-3,5	#8 + #10GND
AHU-10A	13.5/20	120/1/60	1.62 KW	30A	MCB-7	#12 + #12GND
CU-10A	18/30	208-230/1/60	3.74 KW	30A	MCB-8,10	#10 + #10GND
AHU-10B	13.5/20	120/1/60	1.62 KW	30A	MCB-12	#12 + #12GND
CU-10B	18/30	208-230/1/60	3.74 KW	30A	MCB-9,11	#10 + #10GND
AHU-11	12.9/20	120/1/60	1.55 KW	30A	MCB-13	#12 + #12GND
CU-11	32/50	208-230/1/60	6.66 KW	60A	MCB-18,20	#8 + #10GND
AHU-12	12.9/20	120/1/60	1.55 KW	30A	MCB-14	#12 + #12GND
CU-12	32/50	208-230/1/60	6.66 KW	60A	MCB-15,17	#8 + #10GND
AHU-13	12.9/20	120/1/60	1.55 KW	30A	ME2-1	#12 + #12GND
CU-13	24/40	208-230/1/60	4.99 KW	60A	ME2-2,4	#8 + #10GND
AHU-14	12.9/20	120/1/60	1.55 KW	30A	ME2-3	#12 + #12GND
CU-14	24/40	208-230/1/60	4.99 KW	60A	ME2-6,8	#8 + #10GND
AHU-15	12.9/20	120/1/60	1.55 KW	30A	ME2-5	#12 + #12GND
CU-15	24/40	208-230/1/60	4.99 KW	60A	ME2-10,12	#8 + #10GND
EH-1	9.6/20	208-230/1/60	2.0 KW	30A	ME1-24,26 ME1-25,27	#12 + #12GND
EH-2	19.8/25	208-230/1/60	4.0 KW	30A	MDP-22,24	#8 + #10GND

NOTES:

1) WHERE MEETING N.E.C. REQUIREMENTS, A PANELBOARD BREAKER SWITCH, WHERE A MECHANICAL UNIT IS CONTROLLED BY A PANELBOARD IN THE SAME LOCATION, SHALL BE PERMITTED TO SERVE AS THE MAIN DISCONNECTING MEANS IN PLACE OF A DISCONNECT SWITCH.

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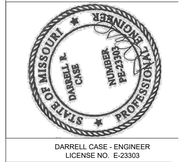
RE□ISIONS

NO.	DESCRIPTION	□ER. BY	DATE

PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

SEAL



DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL H□AC PLAN - 2ND FLOOR

DRAWN BY	JVH
SCALE	3/16"=1'-0"
PROJECTNO.	REAC-01-19
ISSUE DATE	03/27/2019

SHEET
E3.2

PANEL BOARD 'A'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 100 AMP. BUS -- A.I.C. RATED

100 AMP. MAIN LUGS ONLY FED FROM ---

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	RECEPTACLES	720			WASHER(?)	1	20	2
3	20	1	RECEPTACLES	1080	540		DRYER(?)	1	20	4
5	20	1	OUTDOOR RECEPTACLES		1500	180				6
7	20	1	RECEPTACLES	360		1500	RECEPTACLES	1	20	8
9	20	1	RECEPTACLES	900	540		RECEPTACLES	1	20	10
11	20	1	RECEPTACLES		720	720	RECEPTACLES	1	20	12
13	20	1	RECEPTACLES	720		900	RECEPTACLES	1	20	14
15	20	1	RECEPTACLES	540	540		RECEPTACLES	1	20	16
17	20	1	RECEPTACLES		540	540	RECEPTACLES	1	20	18
19	20	1	RECEPTACLES	540		360	RECEPTACLES	1	20	20
21	20	1	RECEPTACLES	540	900		RECEPTACLES	1	20	22
23	20	1	RECEPTACLES		540	720	RECEPTACLES	1	20	24
25	20	1	RECEPTACLES	540		540	RECEPTACLES	1	20	26
27	20	1	RECEPTACLES	540	720		RECEPTACLES	1	20	28
29	20	1	RECEPTACLES		900	720	RECEPTACLES	1	20	30
31	20	1	RECEPTACLES	720		360	RECEPTACLES	1	20	32
33	20	1	RECEPTACLES	720	540		RECEPTACLES	1	20	34
35	20	1	RECEPTACLES		720	540	RECEPTACLES	1	20	36
37	20	1	RECEPTACLES	540		1080	RECEPTACLES	1	20	38
39	20	1	RECEPTACLES	540	540		RECEPTACLES	1	20	40
41	20	1	RECEPTACLES		540	360	RECEPTACLES	1	20	42
43	20	1	SPARE	--		900	RECEPTACLES	1	20	44
45	20	1	SPARE	--	--	720	SPARE	1	20	46
47	20	1	SPARE		--	--	SPARE	1	20	48
49	20	1	SPARE	--		--	SPARE	1	20	50
51	20	1	SPARE		--	--	SPARE	1	20	52
53	20	1	SPARE	--		--	SPARE	1	20	54
55	20	1	SPARE	--	--		SPARE	1	20	56
57	20	1	SPARE		--	--	SPARE	1	20	58
59	20	1	SPARE	--		--	SPARE	1	20	60
61	20	1	SPARE	--	--		SPARE	1	20	62
63	20	1	SPARE		--	--	SPARE	1	20	64
65	20	1	SPARE	--		--	SPARE	1	20	66
				8920	9600	9780				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	--	--
RECEPTACLES	N.E.C.	24120	17060
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	4000	4000
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	--	--
	TOTAL–	28120	21060

PANELBOARD LOAD = 21060 V.A.
FULL LOAD AMPS = 58.5 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

PANEL BOARD 'MDP'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 600 AMP. BUS -- A.I.C. RATED

600 AMP. MAIN BREAKER FED FROM METER

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	AHU–8	1620			CU–8	2	35	2
3	40	2	CU–9	2184	2496					4
5					2184	2496	AHU–9	1	20	6
7	20	1	AHU–10A	1620		1548	CU–10A	2	30	8
9	30	2	CU–10B	1874	1874					10
11					1874	1874	AHU–10B	1	20	12
13	20	1	AHU–11	1548		1620	AHU–12	1	20	14
15	30	2	CU–12	1548	3328					16
17					--	3328	CU–11	2	30	18
19	20	1	SPARE	--		3328				20
21	20	1	SPARE		2000	--	EH–2	2	25	22
23	20	1	SPARE			2000				24
25	20	1	SPARE				SPARE	1	20	26
27	20	1	SPARE				SPARE	1	20	28
29	20	1	SPARE				SPARE	1	20	30
31	20	1	PANELBOARD 'A'	8920			PANELBOARD 'B'	1	20	32
33				5700	9600					34
35					4340	9780				36
37	20	1	PANELBOARD 'C'	4547		4620	PANELBOARD 'D'	1	20	38
39				2987	3532					40
41					4340	3255				42
43	200	3	PANELBOARD 'ME1'	16336		2396	PANELBOARD 'ME2'	3	100	44
45				6540	16704					46
47					6540	16440				48
				58752	58812	59225				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	12188	15235
RECEPTACLES	N.E.C.	39600	24800
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	12000	12000
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	112772	112772
	TOTAL–	176560	164807

PANELBOARD LOAD = 164807 V.A.
FULL LOAD AMPS = 458.8 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

PANEL BOARD 'B'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 100 AMP. BUS -- A.I.C. RATED

100 AMP. MAIN LUGS ONLY FED FROM ---

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	RECEPTACLES	540			RECEPTACLES	1	20	2
3	20	1	RECEPTACLES	720	360		RECEPTACLES	1	20	4
5	20	1	RECEPTACLES		720	540	RECEPTACLES	1	20	6
7	20	1	RECEPTACLES	360		720	RECEPTACLES	1	20	8
9	20	1	RECEPTACLES	720	540		RECEPTACLES	1	20	10
11	20	1	RECEPTACLES		540	360	RECEPTACLES	2	20	12
13	20	1	LIGHTING	375		360				14
15	20	1	LIGHTING	1000	265		RECEPTACLES	2	20	16
17	20	1	LIGHTING		1000	480				18
19	20	1	SPARE	--		1000	RECEPTACLES	2	20	20
21	20	1	EXAMINATION LIGHT		150	1000				22
23	20	1	EXAMINATION LIGHT	--	1000	150	RECEPTACLES	2	20	24
25	20	1	SPARE	1000		1000				26
27	20	1	SURGERY LIGHT		150		SPARE	1	20	28
29	20	1	SURGERY LIGHT		1000	150	SPARE	1	20	30
31	20	1	SPARE	--		--	SPARE	1	20	32
33	20	1	SPARE	--	--		SPARE	1	20	34
35	20	1	SPARE		--	--	SPARE	1	20	36
37	20	1	SPARE	--		--	SPARE	1	20	38
39	20	1	SPARE		--	--	SPARE	1	20	40
41	20	1	SPARE	--		--	SPARE	1	20	42
				5700	4340	4620				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	1720	2150
RECEPTACLES	N.E.C.	6300	6300
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	8000	8000
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	--	--
	TOTAL–	16020	16450

PANELBOARD LOAD = 16450 V.A.
FULL LOAD AMPS = 45.7 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

PANEL BOARD 'ME1'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 200 AMP. BUS -- A.I.C. RATED

200 AMP. MAIN LUGS ONLY FED FROM ---

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	AHU–1	1548			CU–1	2	50	2
3	20	2	CU–2	3328	2184					4
5					3328	2184	AHU–2	1	20	6
7	20	1	AHU–3	1620		1620	CU–3	2	30	8
9	50	2	CU–4	1872	3328					10
11					1872	3328	AHU–4	1	20	12
13	15	1	AHU–5	1104		1548	AHU–6	1	20	14
15	40	2	CU–6	1548	2496		SPARE	1	20	16
17					--	2496	CU–5	2	25	18
19	15	1	AHU–7	1548		1768				20
21	40	2	CU–7	1768	2496		SPARE	1	20	22
23					--	2496	EH–1	2	20	24
25	20	2	EH–1	1000		1000				26
27				1000	1000		SPARE	1	20	28
29	20	1	SPARE		--	--	SPARE	1	20	30
				16336	16704	16440				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	--	--
RECEPTACLES	N.E.C.	--	--
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	--	--
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	49480	49480
	TOTAL–	49480	49480

PANELBOARD LOAD = 49480 V.A.
FULL LOAD AMPS = 137.4 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

PANEL BOARD 'ME2'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 100 AMP. BUS -- A.I.C. RATED

100 AMP. MAIN LUGS ONLY FED FROM ---

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	AHU–13	1548			CU–13	2	40	2
3	20	1	AHU–14	2496	1548					4
5	20	1	AHU–15		2496	1548	CU–14	2	40	6
7	20	1	SPARE	--		2496				8
9	20	1	SPARE	2496	--		CU–15	2	40	10
11	20	1	SPARE		2496	--				12
				6540	6540	6540				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	--	--
RECEPTACLES	N.E.C.	--	--
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	--	--
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	19620	19620
	TOTAL–	19620	19620

PANELBOARD LOAD = 19620 V.A.
FULL LOAD AMPS = 54.5 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

PANEL BOARD 'C'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 60 AMP. BUS -- A.I.C. RATED

60 AMP. MAIN LUGS ONLY FED FROM ---

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	RECEPTACLES	900			RECEPTACLES	1	20	2
3	20	1	RECEPTACLES	720	540		RECEPTACLES	1	20	4
5	20	1	RECEPTACLES		720	540	RECEPTACLES	1	20	6
7	20	1	RECEPTACLES	540		360	RECEPTACLES	1	20	8
9	20	1	RECEPTACLES	360	540		RECEPTACLES	1	20	10
11	20	1	RECEPTACLES		360	360	RECEPTACLES	1	20	12
13	20	1	RECEPTACLES	360		720	RECEPTACLES	1	20	14
15	20	1	RECEPTACLES	720	360		RECEPTACLES	1	20	16
17	20	1	RECEPTACLES		720	720	LIGHTING	1	20	18
19	20	1	LIGHTING	263		423	LIGHTING	1	20	20
21	20	1	LIGHTING	290	156		LIGHTING	1	20	22
23	20	1	LIGHTING		136	289	LIGHTING	1	20	24
25	20	1	LIGHTING	394		203	SPARE	1	20	26
27	20	1	SPARE	--	--		SPARE	1	20	28
29	20	1	SPARE		--	--	SPARE	1	20	30
31	20	1	SPARE	--		--	SPARE	1	20	32
33	20	1	SPARE	--	--		SPARE	1	20	34
35	20	1	SPARE		--	--	SPARE	1	20	36
37	20	1	SPARE	--		--	SPARE	1	20	38
39	20	1	SPARE		--	--	SPARE	1	20	40
41	20	1	SPARE	--		--	SPARE	1	20	42
				4547	3532	3255				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	2154	2693
RECEPTACLES	N.E.C.	9180	9180
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	--	--
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	--	--
	TOTAL–	--	11873

PANELBOARD LOAD = 11873 V.A.
FULL LOAD AMPS = 33.0 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

PANEL BOARD 'D'

SURFACE MOUNTED

120/208 VOLTS 3 PHASE 4 WIRE 60 AMP. BUS -- A.I.C. RATED

60 AMP. MAIN LUGS ONLY FED FROM ---

CKT NO.	TRIP AMPS	NO. POLE	LOAD SERVED	LOAD– V. A. Aø	Bø	Cø	LOAD SERVED	NO. POLE	TRIP AMPS	CKT NO.
1	20	1	LIGHTING	400			LIGHTING	1	20	2
3	20	1	LIGHTING	195	250		LIGHTING	1	20	4
5	20	1	LIGHTING		405	250	LIGHTING	1	20	6
7	20	1	LIGHTING	409		248	LIGHTING	1	20	8
9	20	1	LIGHTING	275	346		LIGHTING	1	20	10
11	20	1	LIGHTING		322	228	LIGHTING	1	20	12
13	20	1	LIGHTING	457		363	LIGHTING	1	20	14
15	20	1	LIGHTING	165	473		LIGHTING	1	20	16
17	20	1	LIGHTING		323	339	LIGHTING	1	20	18
19	20	1	LIGHTING	329		309	LIGHTING	1	20	20
21	20	1	LIGHTING	441	339		LIGHTING	1	20	22
23	20	1	LIGHTING		276	399	LIGHTING	1	20	24
25	20	1	LIGHTING	158		260	LIGHTING	1	20	26
27	20	1	LIGHTING	158	197		SPARE	1	20	28
29	20	1	SPARE		--	--	SPARE	1	20	30
31	20	1	SPARE	--		--	SPARE	1	20	32
33	20	1	SPARE	--	--		SPARE	1	20	34
35	20	1	SPARE		--	--	SPARE	1	20	36
37	20	1	SPARE	--		--	SPARE	1	20	38
39	20	1	SPARE		--	--	SPARE	1	20	40
41	20	1	SPARE	--		--	SPARE	1	20	42
				2987	2931	2396				

LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	DEMAND
LIGHTING	1.25	8314	10393
RECEPTACLES	N.E.C.	--	--
MOTORS	N.E.C.	--	--
MISC. EQUIPMENT	1.00	--	--
KITCHEN EQUIPMENT	0.65	--	--
*HVAC EQUIPMENT	1.00	--	--
	TOTAL–	8314	10393

PANELBOARD LOAD = 10393 V.A.
FULL LOAD AMPS = 28.9 A.

LO PROVIDE LOCK–ON DEVICE TS CIRCUIT VIA TIMESWITCH
* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR
CL VIA TRACK CURRENT LIMITER (SEE LIGHT FIXTURE SCHEDULE)

REINHOLD ELECTRIC
2511 Le□ y Ferry Rd
St. Lou□ MO 63125

Ædifica case engineering
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St. Louis, MO 63125
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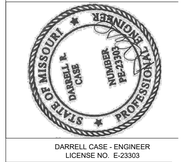
REVISIONS

NO.	DESCRIPTION	ER. BY	DATE

PROJECT
JEFFERSON COUNTY ANIMAL CARE FACILITY
4848 STATE ROUTE 30
HOUSE SPRINGS, MO

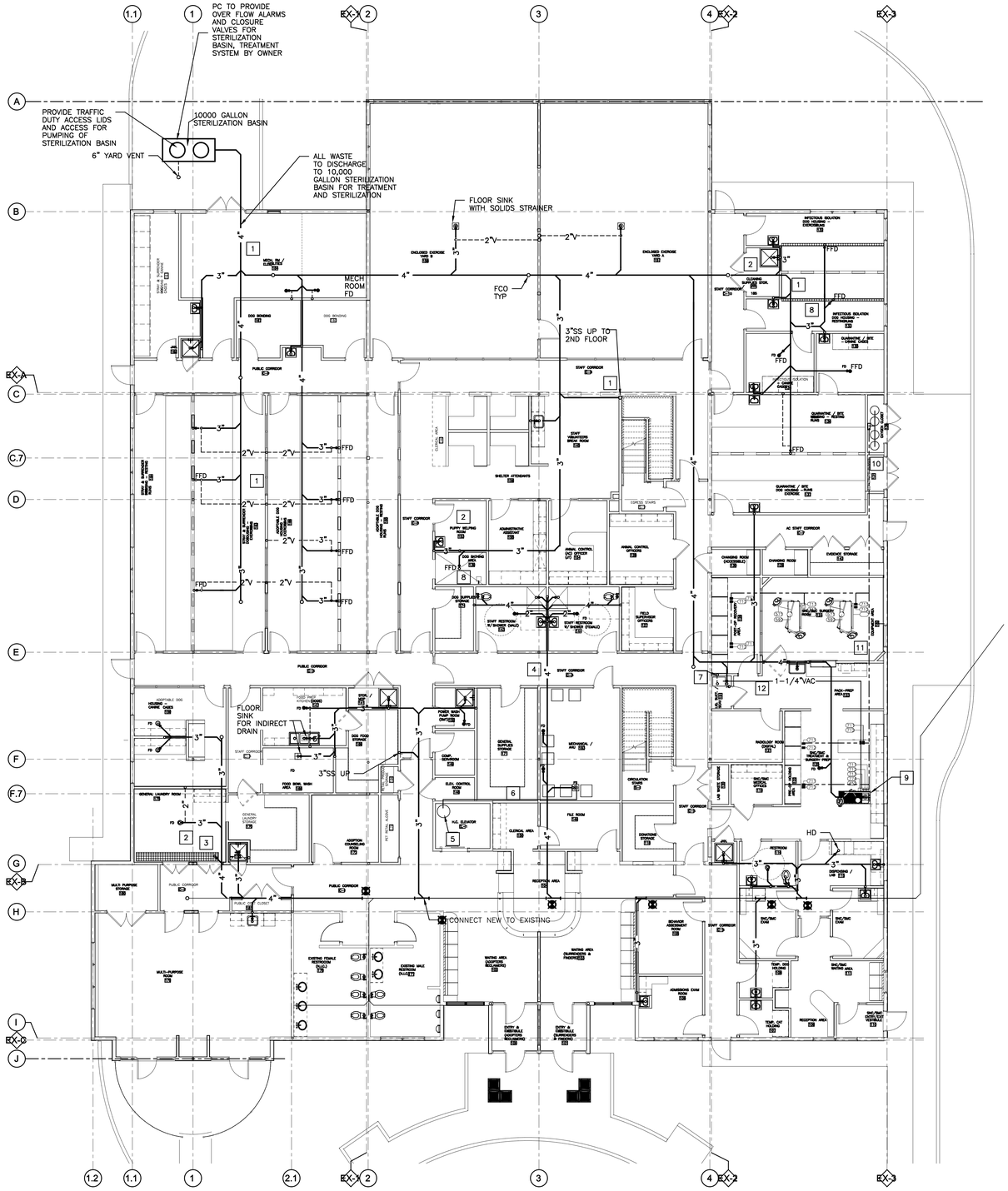
SEAL



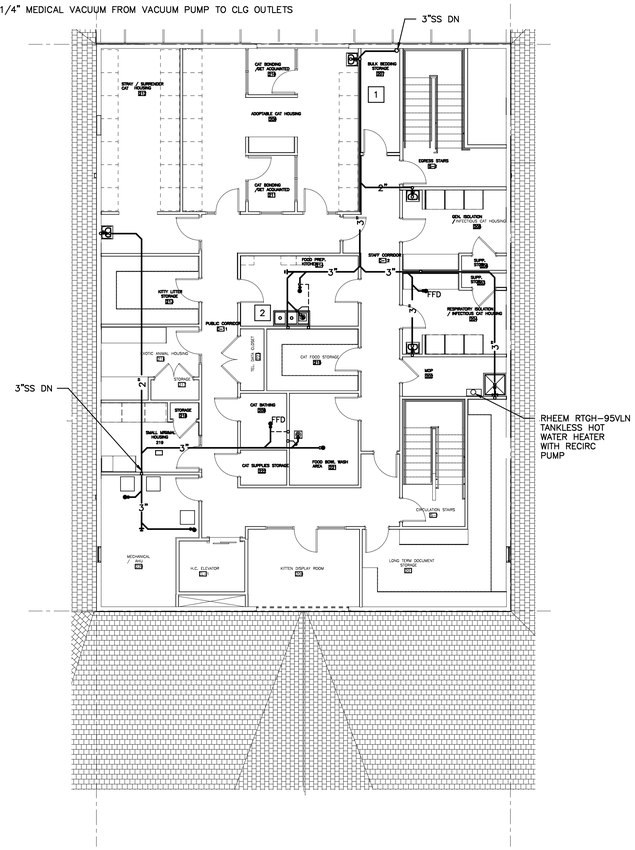
DARRELL CASE - ENGINEER
LICENSE NO. E-23303

DRAWING
ELECTRICAL
PANELBOARD SHEDULES

DRAWN BY	SHEET
JVH	E4
SCALE 3/16"=1'-0"	
PROJECT NO. REAC–01–19	
ISSUE DATE 03/27/2019	



1 P1.0 GROUND FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"



2 P1.0 SECOND FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"

GENERAL PLUMBING NOTES

1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
3. ALL PLUMBING SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
4. ALL WORK SHALL CONFORM TO CODE, IN CASE OF CONFLICTS WITH CODES, DRAWINGS, OR SPECIFICATIONS, THE MOST STRINGENT SHALL PREVAIL.
5. VENTS THRU ROOF SHALL BE INSTALLED 10'-0" FROM OR TERMINATED 3'-0" ABOVE ANY FRESH AIR INTAKES.
6. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.
7. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTION AND SHALL MAKE APPLICATION FOR SERVICE AND PERMITS IN THE NAME OF THE OWNER AND SHALL PAY ALL FEES AND CHARGES INCLUDING THE COST OF VAULTS AND METERS.
8. THE CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPES IN CONCRETE WALL OR FLOOR SHALL BE DONE BY CORE DRILLING EQUIPMENT AND PATCH TO MATCH EXISTING.
9. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO DIELECTRIC UNIONS SEPARATED BY A 12" SECTION OF RED BRASS PIPE.
10. CONTRACTOR SHALL PROVIDE ALL VALVES, GAS COCKS, BACKFLOW PREVENTION DEVICES AND INDIRECT WASTE LINES AS REQUIRED.
11. ALL LAVATORY AND SINK FAUCETS SHALL BE CERTIFIED, REQUIRING FLOW CONTROL OF 2.2 GPM.
12. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS OF EQUIPMENT, CABINETS, ETC., WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
13. THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THEY ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT MANY OFFSETS, BONDS, UNIONS, SPECIFIC FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED.
14. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BASE BID. HE SHALL INCLUDE ALL HIS SITE INFORMATION & EXISTING CONDITIONS WITHIN HIS BASE BID. HE SHALL BE RESPONSIBLE FOR COMPLETE AND FULLY FUNCTIONING PLUMBING SYSTEMS.
15. DO NOT LOCATE ANY PIPING OVER ELECTRICAL PANEL.
16. LOCATE TRAP PRIMERS HIGH ON WALL
17. PLUMBING CONTRACTOR TO VERIFY PIPE MATERIALS FOR PLUMBING SYSTEM PRIOR TO BIDDING & INSTALLATION. PVC SHALL NOT BE UTILIZED IN PLENUM AREAS. ALL PIPING, HANGERS, SUPPORTS AND FITTINGS LOCATED WITHIN THE PLENUM SHALL COMPLY WITH IMC602.2.1 2012

DRAWN BY:
DATE:

KEYED NOTES THIS SHEET

1. ALL BIOHAZARD WASTE FROM THIS FACILITY SHALL BE PIPED TO AN APPROVED STERLIZATION BASIN AS NOTED ALL BIOHAZARD WASTE TREATMENT SYSTEMS SHALL BE APPROVED AND NO WASTE SHALL BE TRANSPORTED OR OTHERWISE DISPOSED OF PRIOR TO STERILIZATION AND TREATMENT. COORDINATE WITH OWNER.
2. SEE A1.04 FOR EQUIPMENT PLAN AND FIXTURE SCHEDULE. PC TO PROVIDE ALL FIXTURES AND MAKE FINAL CONNECTIONS TO EQUIPMENT NOTED ON THE FINAL FIXTURE PLAN. COORDINATE ANY QUESTIONS REGARDING EQUIPMENT WITH THE ARCHITECT OR OWNERS REPRESENTATIVE REGARDING FIXTURE SPECIFICATIONS
3. PROVIDE TRENCH DRAIN WITH LINT SCREEN FOR WASHERS, COORDINATE FINAL LENGTH WITH GC
4. PC SHALL CAMERA EXISTING SANITARY AND DETERMINE FLOW LINE AND DEPTH FOR INVERT ELEVATIONS
5. PC SHALL PROVIDE STANCOR SUMP PUMP, PIT AND OIL MINDER CONTROLLER FOR ELEVATOR PIT
6. PC SHALL ROUTE 1-1/4" DISCHARGE PIPE FROM SUMP PUMP TO FLOOR SINK WITH 1-1/2" AIR GAP
7. PC SHALL ROUTE 2" VENT THRU ROOF FROM VACUUM PUMP
8. PC SHALL JR SMITH OR EQUAL BY ZURN FLUSHING TYPE FLOOR DRAINS, TYPICAL AS NOTED "FFD" COORDINATE ROUTING UNDERSLAB PEX TUBING TO EACH FLUSHING CONNECTION SEE DETAIL 7/P-3
9. PROVIDE DRAIN FOR WASHDOWN TABLE COORDINATE WITH EQUIPMENT VENDOR
10. PC TO PROVIDE O2 PIPING FROM CEILING STATIONS TO O2 CLOSET MANIFOLD PROVIDED BY VENDOR
11. PC TO PROVIDE 1/2" COPPER O2 PIPING TO STATIONS, PURGE AND PROVIDE ALL PIPING TERMINATIONS AS REQ'D
12. PC TO PROVIDE 1-1/4" MEDICAL VACUUM FROM VACUUM PUMP TO CLG OUTLETS

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State of MO Engineering Corp: 1999141113
State of Missouri Prof. Engineer: E-26777
Registered Discipline: Mechanical Engineer
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A BUILDING RENOVATION FOR
Jefferson County Animal Control
Jefferson County, Missouri

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PLANS ARE NOT VALID UNLESS ORIGINAL SEAL AND SIGNATURE IS PRESENT, AND DATED.

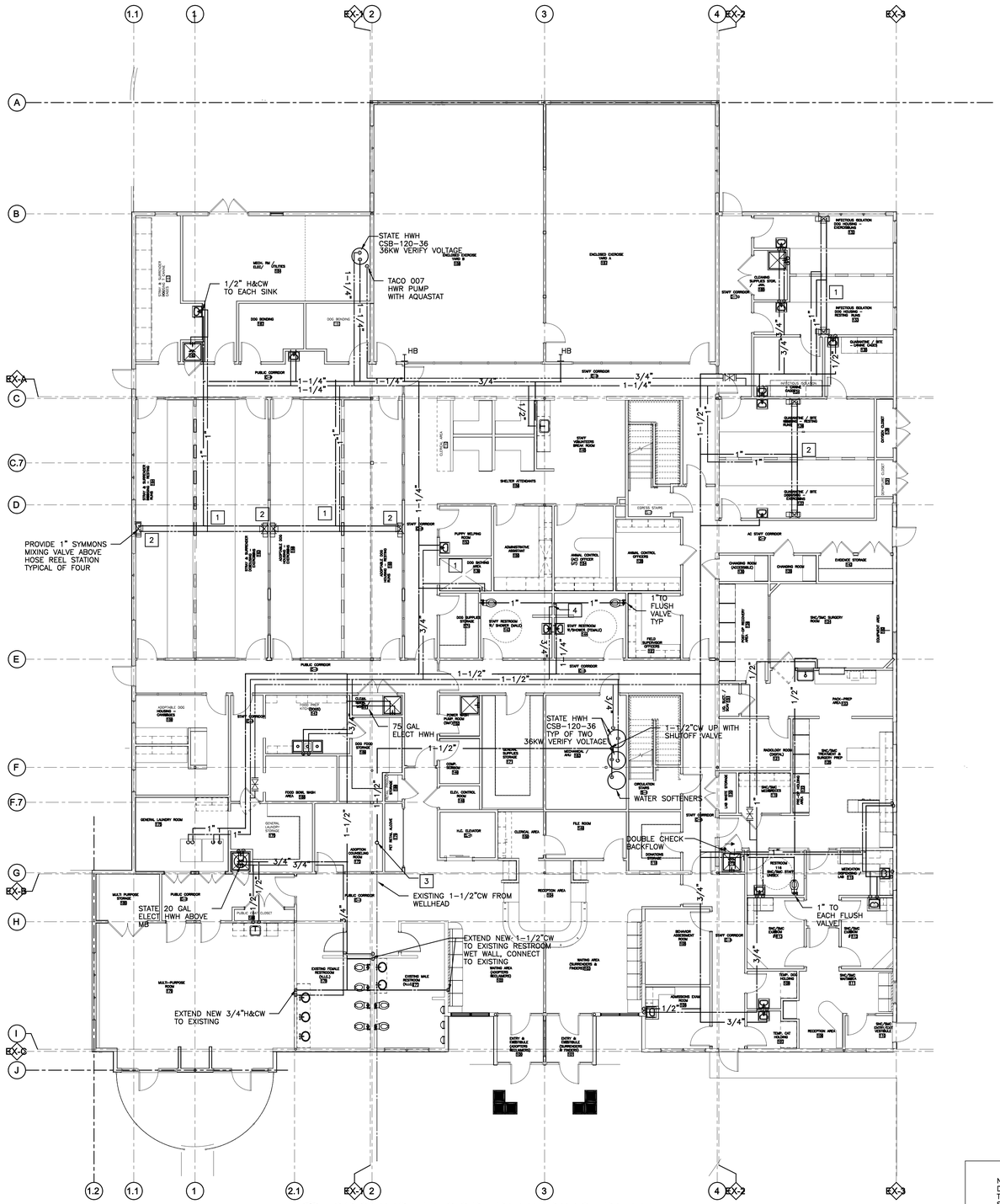
STATE OF MISSOURI
DAVID H POLLMANN
NUMBER PE-026777
PROFESSIONAL ENGINEER

DRAWN BY: D.POLLMANN
CHECKED BY: D. POLLMANN
2-4-19 | 10926

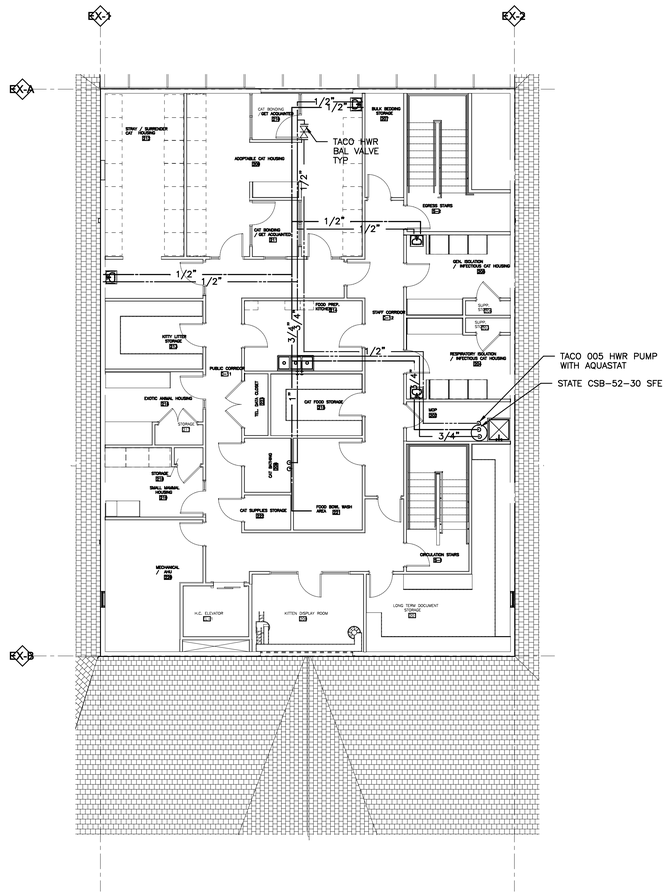
P-1
SHEET 1 OF 4

KEYED NOTES THIS SHEET

1. PC SHALL JR SMITH OR EQUAL BY ZURN FLUSHING TYPE FLOOR DRAINS, TYPICAL AS NOTED "FFD"
   COORDINATE ROUTING UNDERSLAB PEX TUBING TO EACH FLUSHING CONNECTION SEE DETAIL 7/P-3
   PIPING NOT INDICATED FOR CLARITY, COORDINATE ROUTING IN FIELD
2. PROVIDE 1" SYMMONS MAXLINE THERMOSTATIC MIXING VALVE(ACCESSIBLE FOR ADJUSTMENT) AND ROUTE MIXED WATER PIPING TO ALL HOSE REEL, AND WASHDOWN HOSES TO BE PROVIDED BY THE OWNER, ALL FINAL CONNECTIONS BY PC
3. PC TO RE-ROUTE EXISTING 1-1/2"CW MAIN, TO MECHANICAL ROOM, PROVIDE NEW BACKFLOW AND SHUTOFF VALVE. PROVIDE CONNECTIONS TO OWNER FURNISH WATER SOFTENER SYSTEM/SCALE FREE SYSTEM AS REQUIRED.
4. PROVIDE SYMMONS PRESSURE BALANCED SHOWER VALVE, AND COMBINATION HAND SHOWER MODEL 9605-PLR TYP



1 P1.0 GROUND FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"



2 P1.0 SECOND FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"

NOTES: THE OWNER SHALL COORDINATE WITH A WELL SERVICE COMPANY TO DETERMINE VIABILITY OF THE EXISTING WELL HEAD, WELL PUMP, PRESSURE TANK AND TESTING OF WATER SOURCE FOR CONTAMINATION, HARDNESS AND SUITABLITY FOR USE.

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State of Missouri Prof. Engineer: E-26777
Registered Discipline: Mechanical Engineer

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Jefferson County, Missouri

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STATE OF MISSOURI
DAVID H POLLMANN
NUMBER PE-026777
PROFESSIONAL ENGINEER

DRAWN BY: D.POLLMANN
CHECKED BY: D. POLLMANN
2-4-19 | 10926

P-2
SHEET 2 OF 4

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE DATE (SEE PLUMBING FIXTURE SCHEDULE)					CONNECTION DATA						
FIXTURE	FIX. NO.	MFG.	CAT. NO.	COLOR	SOIL SIZE	VENT SIZE	TRAP	COLD WATER	HOT WATER	ACC.	REMARKS
WATER CLOSET	WC-1				3"	2"	–	1/2"	–		2,3.
WATER CLOSET	WC-2				3"	2"	–	1/2"	–		1,2,3
LAVATORY	LAV-1				2"	1-1/2"	1-1/4"	1/2"	1/2"		2,3.
LAVATORY	LAV-2				2"	1-1/2"	1-1/4"	1/2"	1/2"		1,2,3
KITCHEN SINK	KS-1				2"	1-1/2"	2"	1/2"	1/2"		2,3.
KITCHEN SINK	KS-2				2"	1-1/2"	2"	1/2"	1/2"		1,2,3
SINK(LAUNDRY)	S-1				2"	1-1/2"	1-1/2"	1/2"	1/2"		2,3.
MOP SINK	MB				3"	1-1/2"	2"	1/2"	1/2"		2,3.
WASHER FITTINGS	WS-1				3"	2"	2"	1/2"	1/2"		2,3.
HOSE BIBB	HB				–	–	–	3/4"	–		2,3.
FLOOR DRAIN	FD				3"	2"	3"	3/8	–		2,3.
ELECTRIC WATER COOLER	EWC-1				2"	1-1/2"	1-1/2"	1/2"	–		2,3.
HUB DRAIN	HD				3"	2"	1-1/2"	–	–		2,3.
REMARKS:											

1. INSTALL IN ACCESSIBLE UNITS PER ADA REQUIREMENTS.

CRANE, KOHLER, DELTA, CHICAGO, MOEN, AMERICAN STANDARD, AQUA GLASS, CLARION FIBERGLASS MFG, WADE, JOSAM, J.R. SMITH, OASIS, HALSEY TALOR, HAWS, FEDERAL PUMPS, TACO PUMP, B&G, PEERLESS, FEBCO, ZURN, ARE APPROVED FOR BIDDING. FINAL APPROVAL IS PENDING SHOP DRAWINGS SUBMITTAL OF EQUAL EQUIPMENT AND PER REQUIREMENTS OF THE SPECIFICATIONS.

NOTES:

2: ALL PLUMBING FIXTURES AND ASSOCIATED DWV & WATER PIPING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE ADOPTED PLUMBING CODES AND ORDINANCES.

3: VERIFY ALL PLUMBING FIXTURE TYPES AND QUANTITIES WITH FIXTURES SHOWN ON ARCHITECTURAL PLANS

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE DATA	
WC-1	WATER CLOSET "AMERICAN STANDARD" MODEL NO. 211AA.104.020 RIGHT HEIGHT CHAMPION TOILET, ELONGATED BOWL SIPHON JET ACTION BOWL, CLOSE-COUPLED TANK, VITREOUS CHINA, 2 BOLT CAPS. "BEMIS EASY CLEAN QUICK CHANGE HINGES, SEAT WITH COVER. INTEGRALLY MOLDED 1/2"ANGLE SWEAT STOP WITH PIPE
LAV-1	LAVATORY AMERICAN STANDARD LUCERNE OR EQUAL ADJUSTABLE P-TRAP AND "ELKAY OR EQUAL" LK402L2 FAUCET WITH LEVER HANDLES AND POP-UP DRAIN ASSEMBLY. PROVIDE SYMMONS TEMPERING VALVE FOR ALL PUBLICLY ACCESSIBLE LAVATORIES
MB	MOP SINK "TIAT" MODEL NO. MSB-2424 MOP SINK WITH GOOSE NECK FAUCET, HOSE/BRACKET 832-AA, HANGER NO. 889-CC. PROVIDE VACUUM BREAKER AT FAUCET OUTLET
WS-1	WASHER FITTING "GUY GRAY" NO. FB200 WITH 1/2" HW & CW FAUCETS AND 2" DRAIN CONNECTION FOR WASHER.
HB	HOSE BIBB "WADE" MODEL NO. 8604L-89 FREEZE LESS WALL HYDRANT, 3/4" MALE HOSE CONNECTION. HOSE BIBBS SHALL BE SELF-DRAINING.
FD	FLOOR DRAIN SEE KEYED NOTES AND TRAP PRIMER (NPT) CONNECTION.
HD	3" PVC HUB DRAIN STUB 2" ABOVE FINISHED FLOOR.
P-1	TACO 007 120/1/60, WITH AQUASTAT
P-2	STANCOR 120/1/60 8A (ELEV. SUMP PUMP WITH OIL MINDER CONTROLLER)
F.C.O	

PLUMBING NOTES: ALL TOILETS TO HAVE QUICK RELEASE HINGES, BATH FIXTURE FINISHES TO BE BRUSHED NICKEL, OR SATIN CHROME. WHEN SETTING TOILETS, CAULKING AT BASE IS NOT PERMITTED.
PROVIDE FOLD-DOWN SEATS IN ADA UNITS ONLY.

CONTRACTOR TO PROVIDE FULL SUBMITTAL TO OWNER AND ARCHITECT FOR APPROVAL

FIXTURES NOT IN ACCESSIBLE BATHROOMS SHALL BE PROVIDED BY THE OWNER FOR INSTALL BY THE PLUMBING CONTRACTOR

PIPING MATERIALS MATRIX

TYPE OF MATERIAL	NOTES	SERVICE TYPE: BURIED BUILDINGS SANITARY & VENT	ABOVE GRADE SANITARY & VENT	DOMESTIC WATER > 2" (Schedule 80)	BURIED DOMESTIC WATER PIPING	SAN. VENT & STORM IN CLG. PLENUMS	DOMESTIC WATER LESS THAN 2"
SCHEDULE 40 SOLID WALL PVC with SOLVENT CEMENTED DRAINAGE PATTERN FITTINGS ASTM D-2665		●	●				
CPVC TUBING SYSTEM: ASTM D 2846/D 2846M, SDR 11				●			
COPPER PIPE – HARD DRAWN TYPE "L" ASTM B88				●		●	
UPONOR PEX-a DISTRIBUTION SYSTEM: ASTM F 876, TUBING WITH ASTM F 1960 EP FITTINGS						●	
STANDARD WEIGHT NO-HUB CAST IRON ASTM-888 with HEAVY DUTY TYPE 304 STAINLESS STEEL COUPLINGS					●		
COPPER PIPE – SOFT DRAWN TYPE "K" ASTM B88				●			

WASTE, VENT & WATER CONNECTION SCHEDULE

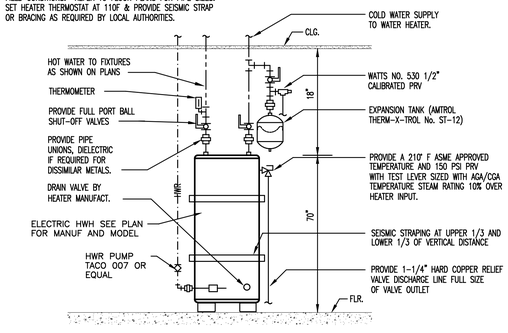
FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	NOTES
WATER CLOSETS (FLUSH VALVE)	4"	2"	1"		PROVIDE FLUSH VALVE
WATER CLOSETS (TANK TYPE)	4"	2"	½"		PROVIDE 1/4 TURN STOP
URINALS	2"	2"	3/4"		PROVIDE FLUSH VALVE
SINKS(HAND, KITCHEN, BREAKROOM)	2"	2"	½	½"	PROVIDE 1/4 TURN STOP
MOP BASINS	3"	2"	½"	½"	PROVIDE MOP FAUCET
LAVATORIES	1 ½"	1 ½"	½"	½"	PROVIDE 1/4 TURN STOP
WASHING MACHINE BOXES	2"	2"	1/2"		PROVIDE AIR ARRESTOR STOP VALVES

NOTES: PROVIDE FIXTURE SUBMITTALS TO OWNER AND ARCHITECT FOR APPROVAL

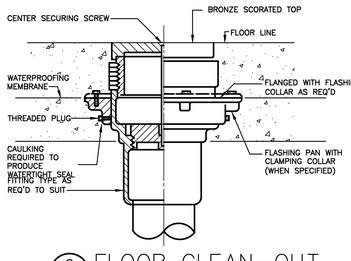
PIPING INSULATION MATRIX

TYPE OF MATERIAL	NOTES	SERVICE TYPE: HORIZONTAL STORM DRAINS	ROOF DRAIN BODY AND VERT. DROP TO HORIZ	PIPING IN UNHEATED BUILDING AREAS	PIPING EXPOSED TO CLIMATIC ELEMENTS	DOMESTIC WATER PIPING-2-1/2" & LARGER	DOMESTIC WATER PIPING-2" & SMALLER	HW & HWR PIPING IN GROUNDED HOT WATER STORM	HW & HWR PIPING ONLY BELOW GROUND DRAIN LINE FROM SWC TO STACK
1-1/2" FIBERGLASS WITH A.S.J. & 0.016 ALUMINUM JACKET, WEATHERPROOF (PIPE ELECTRICALLY TRACED PRIOR TO INSULATING)			●						
1-1/2" FIBERGLASS WITH A.S.J. (PIPE ELECTRICALLY TRACED PRIOR TO INSULATING)	PRE-FORMED FITTING COVERS			●					
1 INCH FIBERGLASS WITH ALL-SERVICE JACKET			●						
1 INCH FIBERGLASS WITH ALL-SERVICE JACKET	PRE-FORMED FITTING COVERS	●				●	●		
1/2 INCH THICK ELASTOMERIC CLOSED CELL INSULATION – ASTM E-84						●	●	●	●

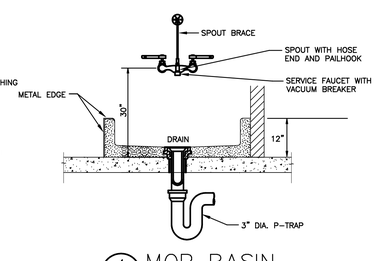
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES. SET HEATER THERMOSTAT AT 110F & PROVIDE SEISMIC STRAP OR BRACING AS REQUIRED BY LOCAL AUTHORITIES.



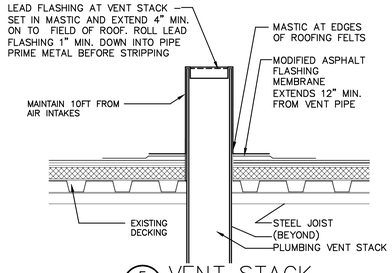
1 / P-3 HOT WATER HEATER PIPING
NTS



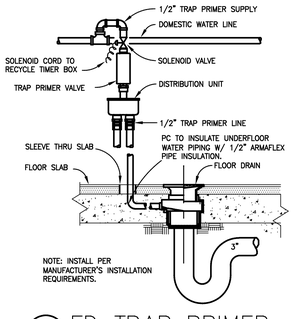
2 / P-3 FLOOR CLEAN-OUT
NTS



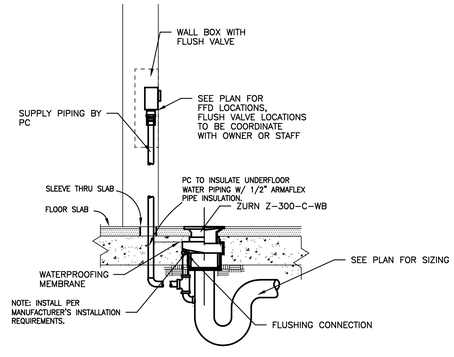
4 / P-3 MOP BASIN
NTS



5 / P-3 VENT STACK
NTS



6 / P-3 FD TRAP PRIMER
NTS



7 / P2.0 FLUSHING TYPE FLOOR DRAIN
NTS

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A BUILDING RENOVATION FOR

Jefferson County Animal Control

Jefferson County, Missouri

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DAVID H POLLMANN
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PROFESSIONAL ENGINEER

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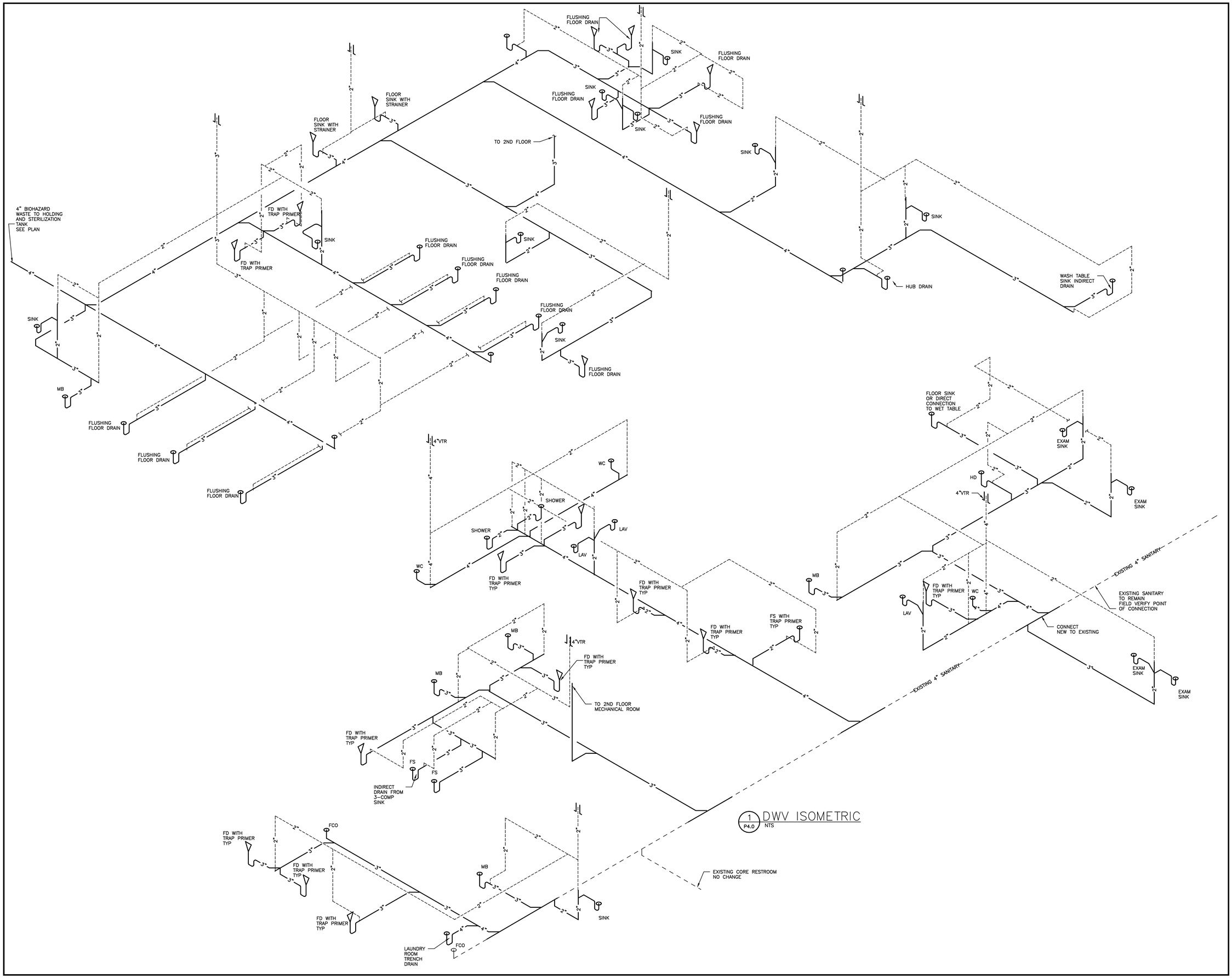
SHEET 3 OF 4



1 P4.0 DWV ISOMETRIC
NTS

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