MOORE ANIMAL SHELTER

100% CONSTRUCTION DOCUMENTS

1316 SW 34TH STREET
MOORE, OK 73160

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06/07/2022
SEAL

Barrett L. Williamson
ARCHITECTS
- Architecture
- Historic Preservation
- Master Planning
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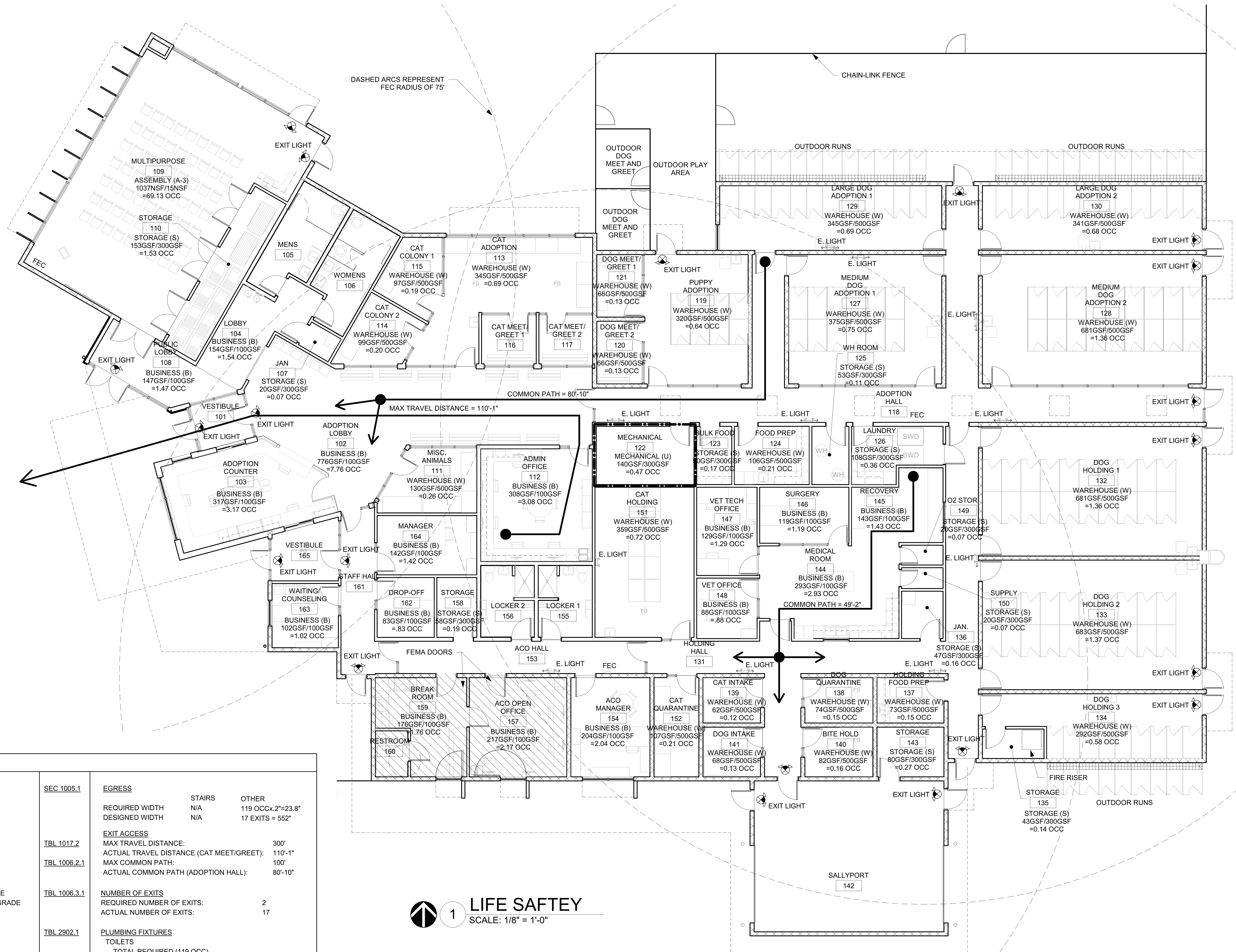
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/07/2022
REVISION DATES

SHEET TITLE
COVER

SHEET NUMBER
G001



1 LIFE SAFTEY

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

IBC 2015	CODE INFORMATION:		
CHAPTER 3	USE & SQUARE FOOTAGE BUSINESS B 3,583 SF ASSEMBLY A-3 1,037 SF STORAGE S 652 SF WAREHOUSE W 5,682 SF UNOCCUPIED U 2,777 SF TOTAL 13,731 SF	SEC 1005.1	EGRESS STAIRS / OTHER REQUIRED WIDTH N/A 119 OCCx.2"=23.8" DESIGNED WIDTH N/A 17 EXITS = 552"
TBL 503	HEIGHTS & AREAS ALLOWABLE AREA (BUSINESS): 23,000 SF (W/O INCREASE) ACTUAL AREA: 15,042 SF ALLOWABLE HEIGHT (BUSINESS): 3 STORIES, 55' ABOVE GRADE ACTUAL HEIGHT: 1 STORY, 26'-10" +/- ABOVE GRADE	TBL 1017.2 TBL 1006.2.1	EXIT ACCESS MAX TRAVEL DISTANCE: 300' ACTUAL TRAVEL DISTANCE (CAT MEET/GREET): 110'-1" MAX COMMON PATH: 100' ACTUAL COMMON PATH (ADOPTION HALL): 80'-10"
		TBL 1006.3.1	NUMBER OF EXITS REQUIRED NUMBER OF EXITS: 2 ACTUAL NUMBER OF EXITS: 17
TBL 601 FRAME: FLOOR: ROOF:	CONSTRUCTION TYPE TYPE II-B LOAD-BARING CMU, METAL STUD, STEEL BEAM AND JOIST W/ METAL DECK CONCRETE SLAB ON GRADE STANDING METAL SEAM, SINGLE-PLY MEMBRANE ROOFING	TBL 2902.1	PLUMBING FIXTURES TOILETS TOTAL REQUIRED (119 OCC) 1 PER 25 FOR FIRST 50, 1 PER 50 FOR REMAINDER= 4 TOTAL PROVIDED: = 7(3 MALE,3 FEMALE, 1 UNISEX) LAVATORIES TOTAL REQUIRED (119 OCC) 1 PER 40 FOR FIRST 80, 1 PER 80 FOR REMAINDER = 3 TOTAL PROVIDED: = 7(3 MALE,3 FEMALE, 1 UNISEX) DRINKING FOUNTAINS TOTAL REQUIRED (119 OCC) 1 PER 100 = 2 TOTAL PROVIDED: = 2 SERVICE SINK TOTAL REQUIRED: = 1 TOTAL PROVIDED: = 2
TBL 803.9	FINISH REQUIREMENTS BY OCCUPANCY OCCUPANCY B, INTERIOR EXIT STAIRS: B, CORRIDORS FOR EXITS: B, ROOMS: C		
SEC 903.2.1.3	SPRINKLER SYSTEM NFPA 13 SYSTEM		
SEC 907.2.2	FIRE ALARM & DETECTION SYSTEM FIRE ALARM PROVIDED		
TBL 1004.1.1	OCCUPANT LOAD BUSINESS 3,583 SF @ 100 GSF/OCC= 35.83 OCC ASSEMBLY 1,037 SF @ 15 NSF/OCC= 69.13 OCC STORAGE/MECHANICAL 652 SF @ 300 GSF/OCC= 2.17 OCC WAREHOUSE 5,682 SF @ 500 GSF/OCC= 11.36 OCC TOTAL 118.49 (119) OCC		NOTE: REFERENCE ELECECTRICAL LIGHTING PLAN FOR EMERGENCY LIGHTING

FIRE RESISTIVE CONSTRUCTION LEGEND	
— · — · —	1 HOUR FIRE BARRIER

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LIFE SAFTEY

SHEET NUMBER
G002

ABBREVIATIONS

ABV	ABOVE
A.F.F.	ABOVE FINISH FLOOR
ACOUS	ACOUSTICAL
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
A.B.	ANCHOR BOLT
L	ANGLE
@	AT
APPROX	APPROXIMATE
ARCH	ARCHITECTURE (URAL)
A.D.	AREA DRAIN
A.C.	ASPHALT CONCRETE
ASPH	ASPHALT
ALWD	ALUMINUM CLAD WOOD
BM	BEAM
BLW	BELOW
B.G.	BELOW GRADE
B.M.	BENCH MARK
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
B.O.B.	BOTTOM OF BEAM
BOT	BOTTOM
BLDG	BUILDING
B.U.R.	BUILT-UP ROOFING
CAB	CABINET
CRPT	CARPET
CSMT	CASEMENT
CLG	CEILING
CTR	CENTER
CL	CENTER LINE
CEM	CEMENT
CLR	CLEAR
CLO	CLOSET
C.O.	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS (ATION)
CONTR	CONTRACTOR
C.J.	CONTROL JOINT
CORR	CORRUGATED
C.S.	COUNTERSINK
CFT	CUBIC FOOT
CYD	CUBIC YARD
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DR	DOOR
DBL	DOUBLE
DN	DOWN
D.S.	DOWN SPOUT
DWR	DRAWER
DWG	DRAWING
D	DRAIN
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL (AL)
ELEV	ELEVATOR
ENCL	ENCLOSE (URE)
E.N.	END NAILING
ENG	ENGINEER (ING)
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT	EXTERIOR
F.O.C.	FACE OF CONCRETE (CURB)
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUB
FGLS	FIBERGLASS
F.N.	FIELD NAILING
FIN	FINISH
F.G.	FINISH GRADE
F.F.	FINISH FLOOR
F.F.E.	FINISH FLOOR ELEVATION
F.A.	FIRE ALARM
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
FLASH	FLASHING
FLR	FLOOR (ING)
FLCO	FLOOR CLEANOUT
F.D.	FLOOR DRAIN
FLUOR	FLUORESCENT
FT	FOOT OR FEET
FTG	FOOTING
FDN	FOUNDATION
GALV	GALVANIZED
GA	GAUGE
G.C.	GENERAL CONTRACTOR
GLS	GLASS
GLS BLK	GLASS BLOCK
GLB	GLUE LAM BEAM
G.B.	GRAB BAR
GR	GRADE, GRADING
GND	GROUND
GYP BD	GYPSUM BOARD
HC	HANDICAPPED
HDW	HARDWARE
HDR	HEADER
HVAC	HEATING/VENTILATION/ AIR CONDITIONING
H.D.	HEAVY DUTY
HGT	HEIGHT
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ	HORIZONTAL
HPDL	HIGH PRESSURE DECORATIVE LAMINATE
H.B.	HOSE BIBB
HR	HOUR
INCL	INCLUDE
INFO	INFORMATION
I.D.	INSIDE DIAMETER
INSUL	INSULATE, INSULATION
INT	INTERIOR
INSTALL	INSTALLATION
JST	JOIST
J	JOINT
KO	KNOCKOUT
KPLT	KICKPLATE
LB.	LAG BOLT
LAM	LAMINATE
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE
LVR	LOUVER
MATL	MATERIAL
MGMT	MANAGEMENT
MFG	MANUFACTURER
MAS	MASONRY
M.O.	MASONRY OPENING
MAT	MATERIAL
MH	MANHOLE
MAX	MAXIMUM
MECH	MECHANICAL
MBR	MEMBER
MEMB	MEMBRANE
MTL	METAL
MTR	METER
MIN	MINIMUM
MISC	MISCELLANEOUS
(N)	NEW
NOM	NOMINAL
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
OPAQ	OPAQUE
OPNG	OPENING
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
O/HANG	OVERHANG
OPP.	OPPOSITE HAND
PR	PAIR
PKG	PARKING
d	PENNY
P.C.F.	PER CUBIC FOOT
P.L.F.	PER LINEAL FOOT
P.S.F.	PER SQUARE FOOT
P.S.I.	PER SQUARE INCH
P	PLATE
PL	PLASTIC LAMINATE
PGLS	PLATE GLASS
PLYWD	PLYWOOD
PP	POWER POLE
P.V.C.	POLYVINYL CHLORIDE
P.C.C.	PRE-CAST CONCRETE
PFAB	PREFABRICATED
PFSM	PREFINISHED SHEET METAL
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PL	PROPERTY LINE
Q.T.	QUARRY TILE
RAD	RADIUS
REDWD	REDWOOD
REF	REFERENCE
REINF	REINFORCE (D) (ING)
RA	RETURN AIR
REV	REVISION
REQD	REQUIRED (ING)
ROT.	ROTATED
R.O.W.	RIGHT OF WAY
R	RISER
RF	ROOF
RFG	ROOFING
RD	ROOF DRAIN
RFH	ROOF HATCH
RM	ROOM
R.O.	ROUGH OPENING
R.V.	ROOF VENTS
SCH	SCHEDULE
SEC	SECTION
SHTG	SHEATHING
SHT	SHEET
S.M.	SHEET METAL
SIM	SIMILAR
SL	SKYLIGHT
SCWD	SOLID CORE
S	SOUTH
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
SD	STORM DRAIN
STRUCT	STRUCTURAL
SUS	SUSPENDED
S.C.	SUBCONTRACTOR
SYS	SYSTEM
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
T & G	TONGUE AND GROOVE
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB
T.O.L.	TOP OF LEDGER
T.O.P.	TOP OF PARAPET
T.O.P.	TOP OF PAVEMENT
T.O.PL.	TOP OF PLATE
T.O.S.	TOP OF SLAB
T.O.T.	TOP OF TRUSS
T.O.W.	TOP OF WALL
	TREAD
TYP	TYPICAL
U.G.	UNDERGROUND
UNF	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITIES
V.B.	VAPOR BARRIER
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
VEST	VESTIBULE
VIN.	VINYL
V.B.	VINYL BASE
W.H.	WALL HUNG
W TO W	WALL TO WALL
W/C	WATER CLOSET
W/H	WATER HEATER
WP	WATERPROOF
W.R.	WATER RESISTANT
WT	WEIGHT
W.W.M.	WELDED WIRE MESH
W	WEST
WDW	WINDOW
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WD	WOOD
W.B.	WOOD BASE
W.I.	WROUGHT IRON

REFERENCE LEGEND

	NORTH ARROW
X / A208 — DETAIL NUMBER / DRAWING NUMBER	ENLARGED AREA TAG
X / A208 — DETAIL NUMBER / DRAWING NUMBER	ELEVATION REFERENCE
X / A208 — DETAIL NUMBER / DRAWING NUMBER	BUILDING SECTION
X / A208 — DETAIL NUMBER / DRAWING NUMBER	WALL SECTION
X/XXXX / X/XXXX	ELEVATION REFERENCE AND MINOR SECTIONS
ROOM NAME / XXX / ROOM NUMBER	ROOM TAG
XX	DOOR TAG
F	WINDOW TAG
X	PARTITION TAG
X	EQUIPMENT TAG
X	REVISION REFERENCE
1 TITLE — SCALE: X" = 1'-0"	DRAWING TITLE

ARCHITECTURAL GENERAL NOTES

1. DO NOT SCALE THE DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF CONDITIONS.
2. THE ARCHITECT DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHALL NOT BE DISTRIBUTED AND UTILIZED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUBCONTRACTORS, TRADES, AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS.
3. THE SPECIFICATIONS AND ALL CONSULTANT DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY OF THE CONSULTANTS WORK AND TO BRING ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECTS ATTENTION FOR CLARIFICATION. IMPROPERLY INSTALLED WORK SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS EXPENSE AND AT NO EXPENSE TO THE ARCHITECT, HIS CONSULTANTS OR THE OWNER.
4. THE ARCH DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCH DRAWINGS. THE ARCH DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.

   EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE: SPECIFICALLY AND INDIVIDUALLY INDICATED

   A. BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS. OCCURRING WITHIN A ROOM OR OTHER.

   B. IDENTIFIED SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE THE CEILINGS (INCLUDING BUT NOT LIMITED TO: STRUCTURAL MEMBERS AND FIREPROOFING, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEMS, LIGHT FIXTURES, CEILING SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE.
6. THE ARCH FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, AND ELEVATIONS SHOW THE EXACT LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. FOR ITEMS NOT LOCATED EXACTLY, APPLY THE RULES INDICATED BY THIS SHEET "TYPICAL RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATION" TO DETERMINE THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK.
7. ACCESS PANELS, WHERE REQUIRED BY BUILDING CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECHANICAL OR ELECTRICAL EQUIPMENT, SHALL BE PROVIDED AND INSTALLED. CONTRACTOR SHALL COORDINATE SIZE, LOCATION AND TYPE OF ACCESS PANEL WITH OTHER CONTRACTORS WORK AND RECEIVE APPROVAL OF THE ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL SHALL BE AS SPECIFIED.
8. ALL DIMENSIONS ON FLOOR PLANS ARE NOMINAL TO FINISH FACE OF CMU, CONCRETE, MASONRY, BRICK AND FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
   EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
9. CONTRACTOR SHALL VERIFY ALL COLUMN COORDINATES AND CHECK THEM AGAINST DIMENSIONS SHOWN ON PLANS AND DETAILS. ARCHITECT SHOULD BE NOTIFIED OF ANY DISCREPANCY DURING STAKING.
10. SIZES OF HOUSEKEEPING PADS AND BASES FOR MECHANICAL EQUIPMENT ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATION AND REQUIRED SIZE OF ALL CONCRETE PADS AND BASES WITH EQUIPMENT MANUFACTURERS BEFORE POURING.

ARCHITECTURAL GENERAL NOTES

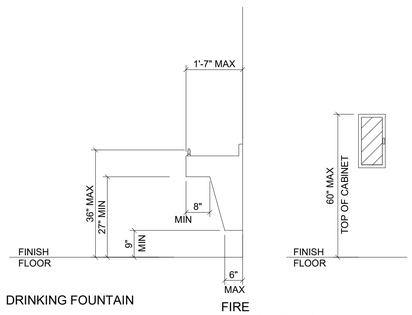
11. N/A
12. WHERE INSTALLATION OF ONE PART OF THE WORK IS DEPENDENT ON INSTALLATION OF OTHER COMPONENTS, EITHER BEFORE OR AFTER ITS OWN INSTALLATION, SCHEDULE CONSTRUCTION ACTIVITIES IN THE SEQUENCE REQUIRED TO GET THE BEST RESULT.
13. WHERE AVAILABILITY OF SPACE IS LIMITED, COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ASSURE MAXIMUM ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE OR REPAIR.
14. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
15. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS.
16. INSPECT MATERIALS OR EQUIPMENT IMMEDIATELY UPON DELIVERY AND AGAIN PRIOR TO INSTALLATION.
    REJECT DAMAGED AND DEFECTIVE ITEMS.
17. RECHECK MEASUREMENTS AND DIMENSIONS BEFORE EACH INSTALLATION.
18. PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS NECESSARY FOR SECURING THE WORK.
    SECURE WORK TRUE TO LINE LEVEL. ALLOW FOR EXPANSION AND BUILDING MOVEMENT.
19. DURING HANDLING AND INSTALLATION, CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION AT SUBSTANTIAL COMPLETION.
20. CLEAN AND MAINTAIN COMPLETED CONSTRUCTION AS FREQUENTLY AS NECESSARY THROUGH THE REMAINDER OF THE CONSTRUCTION PERIOD. ADJUST AND LUBRICATE COMPONENTS TO ENSURE OPERABILITY WITHOUT DAMAGING EFFECTS.
21. SUPERVISE CONSTRUCTION ACTIVITIES TO ENSURE THAT NO PART OF THE CONSTRUCTION, COMPLETED OR IN PROGRESS, IS SUBJECT TO HARMFUL, DANGEROUS, DAMAGING, OR OTHERWISE DELETERIOUS EXPOSURE DURING THE CONSTRUCTION PERIOD.
    WHERE APPLICABLE, SUCH EXPOSURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
    1. EXCESSIVE STATIC OR DYNAMIC LOADING
    2. EXCESSIVE INTERNAL OR EXTERNAL PRESSURES.
    3. EXCESSIVELY HIGH OR LOW TEMPERATURES.
    4. THERMAL SHOCK.
    5. EXCESSIVELY HIGH OR LOW HUMIDITY.
    6. AIR CONTAMINATION OR POLLUTION.
    7. WATER OR ICE.
    8. SOLVENTS.
    9. CHEMICALS.
    10. LIGHT.
    11. RADIATION.
    12. PUNCTURE.
    13. ABRASION.
    14. HEAVY TRAFFIC.
    15. SOILING, STAINING AND CORROSION.
    16. BACTERIA.
    17. RODENT AND INSECT INFESTATION.
    18. COMBUSTION.
    19. ELECTRICAL CURRENT.
    20. HIGH SPEED OPERATION.
    21. IMPROPER LUBRICATION.
    22. UNUSUAL WEAR OR MISUSE.
    23. CONTACT BETWEEN INCOMPATIBLE MATERIALS.
    24. DESTRUCTIVE TESTING.
    25. MISALIGNMENT.
    26. EXCESSIVE WEATHERING.
    27. UNPROTECTED STORAGE.
    28. IMPROPER SHIPPING OR HANDLING.
    29. THEFT.
    30. VANDALISM.
22. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT SUPPLIER FOR INSTALLATION OF EQUIPMENT SHOWN ON THE DRAWINGS. THE GENERAL CONTRACTOR SHALL VERIFY EQUIPMENT LOCATIONS WITH THE KITCHEN EQUIPMENT SUPPLIER AND/OR MANUFACTURER FOR PROPER SIZE AND LOCATION OF BLOCKING, BACKING AND UTILITY CONNECTIONS.

ARCHITECTURAL GENERAL NOTES

23. FOR CLARIFICATIONS THAT DO NOT AFFECT PROJECT COST OR TIME, THE ARCHITECT WILL ISSUE AN ARCHITECT'S SUPPLEMENTARY INSTRUCTION (ASI).
24. ELECTRONICALLY SUBMIT REQUESTS FOR INFORMATION (RFI)
    TO: jl@blwarchitects.com AND blw@blwarchitects.com.
    THE FOLLOWING INFORMATION IS REQUIRED FOR THE RFI TO BE REVIEWED:
    -PROJECT NAME
    -RFI NAME
    -RFI NUMBER
    -INITIATION DATE
    -SUBJECT
    -DISCIPLINE AFFECTED
    -SUBMITTED BY: (NAME, COMPANY, TELEPHONE NUMBER)
    -SUBMITTED TO: (NAME, COMPANY, TELEPHONE NUMBER)
    -COPIES TO: OWNER
    -REFERENCED DRAWING AND SPECIFICATION SECTION
    -GENERAL CONTRACTOR
    -IMPACT:
    -COST IMPACT: (YES/NO AND DOLLAR AMOUNT)
    -SCHEDULE IMPACT: (YES/NO AND NUMBER OF DAYS)
    -DRAWING IMPACT: (YES/NO)
    -CHANGE ORDER REQUIRED: (YES/NO)
    -INFORMATION REQUESTED
    -DATE REQUIRED
    -PROPOSED SOLUTION (IF APPLICABLE) FROM PARTY MAKING THE REQUEST AND COST FOR THE PROPOSED SOLUTION
    -RESPONSE FROM ARCHITECT/ENGINEER
    -ANSWERED BY: (NAME AND COMPANY)
    -DATE ANSWERED
25. ELECTRONICALLY SUBMIT PROPOSED CHANGE ORDER (PCO)
    TO: jl@blwarchitects.com AND blw@blwarchitects.com
    THE FOLLOWING INFORMATION IS REQUIRED FOR THE PCO TO BE REVIEWED:
    -PROJECT NAME
    -PROPOSED CHANGE ORDER NAME
    -PROPOSED CHANGE ORDER NUMBER
    -DISCIPLINE AFFECTED
    -THE RFI
    -THE ARCHITECTS RESPONSE TO THE RFI
    -WRITTEN DOCUMENTATION FROM SUBCONTRACTORS
    -COMPLETE DESCRIPTION OF THE SCOPE OF WORK
    -PRICE QUOTE BREAKDOWN FOR UNIT PRICES
    -PRICE QUOTE BREAKDOWN FOR EXTENDED PRICES
    -FEES
    -OVERHEAD AND PROFIT
    -PROVIDE A PRICE QUOTE BREAKDOWN FOR ANY CREDIT DUE TO THE PROJECT OWNER FOR LABOR AND/OR MATERIALS THAT WILL NO LONGER BE REQUIRED BY THE PROPOSED CHANGE ORDER'S SCOPE OF WORK
    -TIME REQUESTED TO BE ADDED TO THE PROJECT TO COMPLETE THE PROPOSED SCOPE OF WORK

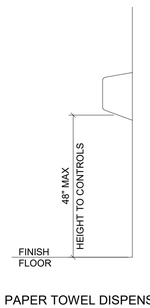
BID ALTERNATES

ALLOWANCES

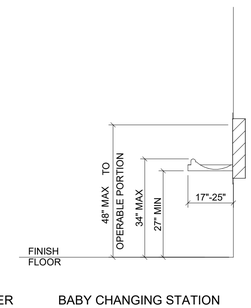


DRINKING FOUNTAIN

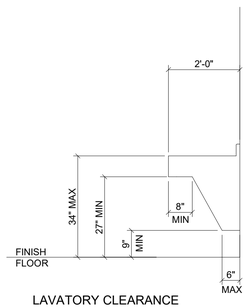
FIRE EXTINGUISHER CABINET



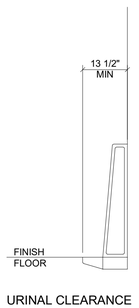
PAPER TOWEL DISPENSER



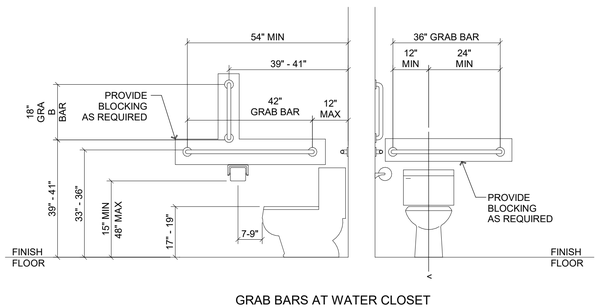
BABY CHANGING STATION



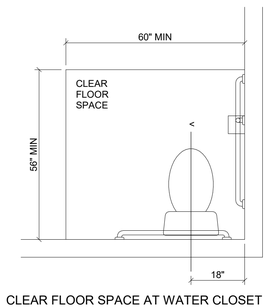
LAVATORY CLEARANCE



URINAL CLEARANCE



GRAB BARS AT WATER CLOSET



CLEAR FLOOR SPACE AT WATER CLOSET

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

STATE OF OKLAHOMA — No. 9433 — NORMAN, OKLA. — LICENSED ARCHITECT
06/07/2022
SEAL

Barrett L. Williamson
ARCHITECTS
- Architecture
- Historic Preservation
- Master Planning
- Interior Design

219 W. Boyd, Suite 203
Norman, Oklahoma
73069
tel: 405.360.1566
fax: 405.364.1567
OK CA No. 01771
06-30-23

PROJECT NUMBER
M31114

ISSUE DATE
6/07/2022

REVISION DATES

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
G003

GENERAL:

CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS,STREETS,WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEPT ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.

THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.

ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.

UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CITY OF MOORE STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS AND OKLAHOMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND/OR THE APPROPRIATE LOCAL AUTHORITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, AND TAP FEES, ETC.

ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.

RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.

NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

OKIE:

ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS AND HOLIDAYS) AND CALL "OKIE" AT 1-800-522-6543.

EXISTING UTILITY LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

SITE WORK AND GRADING:

ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS AND CURB RAMPS SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, AND THE INTERIM FINAL RULES FOR PUBLIC RIGHT-OF-WAY, PUBLISHED IN THE FEDERAL REGISTER, SEPTEMBER 2010. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR, WRITTEN PERMISSION FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

- CROSS SLOPES FOR SIDEWALKS SHALL NOT EXCEED 1:50
- RAMP SLOPES SHALL NOT EXCEED 1:12
- GRADES EXCEEDING 5% WILL BE TREATED AS A RAMP SLOPE

FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.05 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATIONS AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISHED DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION.

GEOTECHNICAL:

SEE GEOTECHNICAL REPORT PREPARED BY COMPREHENSIVE ENGINEERING SERVICES, INC EST PROJECT NO: 6010697), DATED 12.31.2020.

SURVEY:

EXISTING TOPOGRAPHY IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY LEMKE LAND SURVEYING , DATED 03.23.2020.

EROSION CONTROL NOTES:

ALL EROSION CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND CITY OF MOORE STANDARDS AND SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, AND FOR CLEANING OF VEHICLE WHEELS IN ACCORDANCE WITH THE CITY OF MOORE STANDARDS AND SPECIFICATIONS.

SILT FENCES: PLACEMENT OF SILT FENCES SHALL BE AS SHOWN ON THE DEMOLITION & EROSION CONTROL PLAN. FENCING WHICH BECOMES DAMAGED SHALL BE REPLACED PROMPTLY. DEPOSITS OF SILT WHICH BUILD UP BEHIND DIKES MAY BE DISKED INTO THE SITE BEFORE PLACEMENT OF TEMPORARY COVER. AFTER TEMPORARY COVER IS PLACED OR AFTER LANDSCAPING COMMENCES, SILT SHALL BE REMOVED AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

TEMPORARY EROSION CONTROL:

ALL DISTURBED EARTH SURFACES WHICH ARE NOT PAVED OR BUILDING PADS SHALL BE LANDSCAPED OR REVEGETATED IMMEDIATELY IF CONSTRUCTION CEASES FOR 14 DAYS WITH A TEMPORARY COVER, DEPENDING ON THE PLANTING SEASON, AS OUTLINED BELOW.

PLANT TYPE	PER ACRE	PER 1000 SQ. FT.	PLANTING DATE	DEPTH OF SEEDING
ANNUAL RYEGRASS	40 LBS.	0.9 LBS.	09/05-11/30	¼ INCH
ELBON RYE	2 BU.	3.0 LBS.	08/15-11/30	2 INCH
WHEAT	2 BU.	3.0 LBS.	08/15-11/30	2 INCH
OATS	3 BU.	2.5 LBS.	08/15-11/30	2 INCH
SORGHUMS	60 LBS.	1.4 LBS.	03/01-09/15	2 INCH
SUDAN GRASS	60 LBS.	1.4 LBS.	04/01-09/15	2 INCH

PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SHALL BE INSTALLED.

THE SUBGRADE SHALL BE LOOSENED EVENLY TO A DEPTH OF 2 TO 3 INCHES AND 10-20-10 FERTILIZER (10 LBS. PER 1000 SQ. FT. OR 450 LBS. PER ACRE) SHALL BE MIXED WITH THE LOOSENED SOIL BY DISKING OR OTHER SUITABLE MEANS.

SOIL SHALL BE TESTED AND LIME TREATED IF REQUIRED BY TESTING FIRM.

SEEDS MAY BE DRILLED OR BROADCAST UNIFORMLY.

SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE SLOPE TO MINIMIZE EROSION.

MULCH SHALL BE USED ON ALL SLOPES GREATER THAN 5 PERCENT OR AS NEEDED.

THE AREA SHALL BE WATERED DAILY OR AS OFTEN AS NECESSARY TO MAINTAIN ADEQUATE SOIL MOISTURE UNTIL THE PLANTS EXCEED 1 INCH IN HEIGHT.

PERMANENT EROSION CONTROL PRACTICES:

BERMUDA GRASS SOLID SLAB SOD OR SEEDING SHALL BE USED ON THIS PROJECT IN ALL DISTURBED AREAS.

LAWN AREAS SHALL BE FERTILIZED ACCORDING TO TIME OF INSTALLATION

MAY 1 - AUGUST 31: APPLY 16-8-8 FERTILIZER AT A RATE OF SIX (6) POUNDS PER 1000 SQ FT TO LAWN AREAS

SEPTEMBER 1 - APRIL 30: APPLY 10-20-10 FERTILIZER AT A RATE OF TEN (10) POUNDS PER 1000 SQ FT TO LAWN AREAS

SOIL SHALL BE LOOSENED EVENLY TO A DEPTH OF 2 TO 3 INCHES AND FERTILIZER SHALL BE MIXED WITH THE LOOSENED SURFACE SOIL BY DISKING OR OTHER SUITABLE MEANS.

SOIL SHALL BE TESTED FOR pH AND SHALL BE TREATED WITH LIME AS REQUIRED.

THE AREA SHALL BE WATERED DAILY OR AS OFTEN AS NECESSARY TO MAINTAIN ADEQUATE SOIL MOISTURE UNTIL FINAL ACCEPTANCE OR ONE MONTH.

SODDED AND SEEDED AREAS SHALL BE PREPARED AND PLACED IN ACCORDANCE WITH CITY OF MOORE SPECIFICATIONS. SEED SLOPES LESS THAN 5%. SOD SLOPES BETWEEN 5% AND 4:1. STAKE SOD ON SLOPES GREATER THAN 4:1.

AS-BUILTS:

THE CONTRACTOR SHALL KEEP ON SITE A CURRENT SET OF THE APPROVED CONSTRUCTION WORKING DRAWINGS AT ALL TIMES. THE CONTRACTOR SHALL MARK (IN RED INK) ALL APPROVED CHANGES INCURRED FOLLOWING ISSUANCE OF THE INITIAL DRAWINGS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS OR CHANGES MADE BY THE DESIGN ENGINEER. EXCEPT FOR MINOR FIELD ADJUSTMENTS, ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE DESIGN ENGINEER PRIOR TO FINAL APPROVAL OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE ENGINEER OF RECORD (DESIGN ENGINEER) AFTER FINAL INSPECTION OF PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF RECORD DRAWINGS.

LEGEND

660 — EXISTING MAJOR CONTOUR	BM — BENCH MARK
662 — EXISTING MINOR CONTOUR	CO — CLEANOUT
660 — NEW MAJOR CONTOUR	DOWN GUY
662 — NEW MINOR CONTOUR	EP — EMERGENCY PHONE
x — FENCE	FO — FIBER OPTIC MANHOLE
T — TELEPHONE OVERHEAD	FDC — FIRE DEPT CONNECTION
OE — POWER LINE OVERHEAD	FH — FIRE HYDRANT
G — GAS LINE	GAS / OIL WELL
O — OIL LINE	GM — GAS METER
E — ELECTRIC UNDERGROUND	LP — LIGHT POLE
UT — TELEPHONE UNDERGROUND	P — POWER MANHOLE
TVUG — TV UNDERGROUND	POWER POLE
W — WATER LINE	PB — PULL BOX
SS — SANITARY SEWER LINE	SS — SANITARY MANHOLE
S — STORM SEWER LINE	ST — STEAM MANHOLE
FLOW LINE DITCH	S — STORM MANHOLE
SF — SILT FENCE	T — TELEPHONE MANHOLE
	TPED — TELEPHONE PEDESTAL
	XFMR — TRANSFORMER PAD
	VALVE
	WH — WATER HYDRANT
	WM — WATER METER
	WATER WELL

PLANNING AND ZONING:

CITY HALL
301 N. BROADWAY
MOORE, OKLAHOMA
405.793.5053

BUILDING PERMITS AND INSPECTIONS:

CITY OF MOORE
PLANNING & DEVELOPMENT
ATTN: ELIZABETH WEITMAN
301 N. BROADWAY AVE.
MOORE, OKLAHOMA
EWEITMAN@CITYOFMOORE.COM
405.793.5053

WATER:

CITY OF MOORE
PLANNING & DEVELOPMENT
ATTN: ELIZABETH WEITMAN
301 N. BROADWAY AVE.
MOORE, OKLAHOMA
EWEITMAN@CITYOFMOORE.COM
405.793.5053

SANITARY SEWER:

CITY OF MOORE
PLANNING & DEVELOPMENT
ATTN: ELIZABETH WEITMAN
301 N. BROADWAY AVE.
MOORE, OKLAHOMA
EWEITMAN@CITYOFMOORE.COM
405.793.5053

STORMWATER:

CITY OF MOORE
ENVIORNMENTAL SERVICES
ATTN: MARK HARLAN
220 N. TELEPHONE RD.
MOORE, OKLAHOMA
MHARLAN@CITYOFMOORE.COM
405.793.5089

ELECTRIC:

OKLAHOMA GAS AND ELECTRIC COMPANY
ATTN: KEN LUCAS
P.O. BOX 391
OKLAHOMA CITY, OKLAHOMA

TELEPHONE:

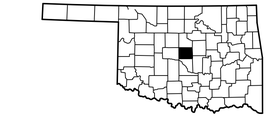
AT&T
TELEPHONE COMPANY
ATTN: ANITA COOPER
7001 NW 23RD STREET, RM 335
BETHANY, OKLAHOMA 73008
405.291-3103
ATTENG@ATT.COM

GAS:

OKLAHOMA NATURAL GAS COMPANY
ATTN: DENNA NEELY
321 HARVEY AVE
OKLAHOMA CITY, OKLAHOMA 74136
OFFICE: 405.530.2584
DENNA.NEELY@ONEOK.COM

CABLE:

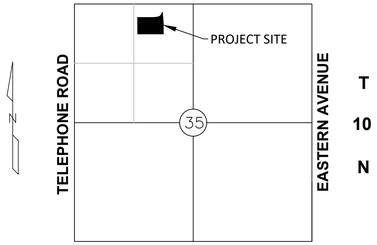
COX COMMUNICATIONS, INC,
ATTN: MARK BOWLING
715 NE 122ND ST
OKLAHOMA CITY, OKLAHOMA 73114
OFFICE: 405.417.4064
MARK.BOWLING@COX.COM



OKLAHOMA COUNTY
OKLAHOMA

R 3 W

S.W. 34TH STREET



T 10 N

INDIAN HILLS ROAD

LOCATION MAP

SCALE: NTS

SHEET INDEX

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
410 north walnut avenue, suite 200
oklahoma city, oklahoma 73104
405.234.5858 · 800.364.5858
wallace.design
ok coa 1460
EXP DATE: 06.30.23

CAUTION

NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

MOORE ANIMAL SHELTER
1316 SE 34TH STREET,
MOORE, OK 73160

PROFESSIONAL ENGINEER
A. MILI ANGIER
32385
OKLAHOMA
6/07/22

SEAL

Barrett L. Williamson
ARCHITECTS

- Architecture
- Historic Preservation
- Master Planning
- Interior Design

219 W. Boyd, Suite 203
Norman, Oklahoma
73069
tel: 405.360.1566
fax: 405.364.1567
OK CA No. 01771
06-30-23

PROJECT NUMBER
M31114

ISSUE DATE
06/07/2022

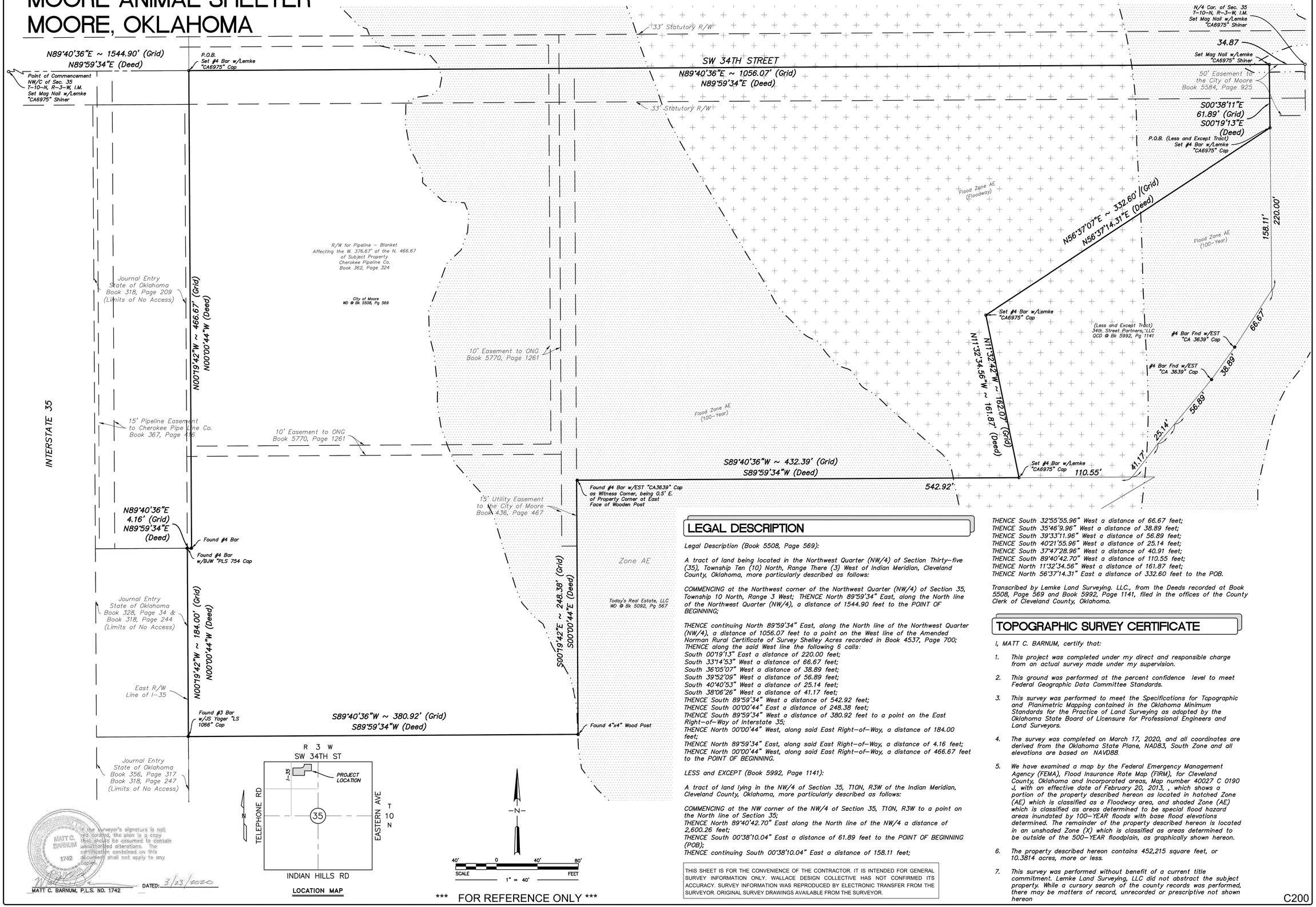
REVISION DATES

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
C100

TOPOGRAPHIC SURVEY FOR

MOORE ANIMAL SHELTER
MOORE, OKLAHOMA



LOCATION MAP

LEGAL DESCRIPTION

Legal Description (Book 5508, Page 569):

A tract of land being located in the Northwest Quarter (NW/4) of Section Thirty-five (35), Township Ten (10) North, Range There (3) West of Indian Meridian, Cleveland County, Oklahoma, more particularly described as follows:

COMMENCING at the Northwest corner of the Northwest Quarter (NW/4) of Section 35, Township 10 North, Range 3 West; THENCE North 89°59'34" East, along the North line of the Northwest Quarter (NW/4), a distance of 1544.90 feet to the POINT OF BEGINNING;

THENCE continuing North 89°59'34" East, along the North line of the Northwest Quarter (NW/4), a distance of 1056.07 feet to a point on the West line of the Amended Norman Rural Certificate of Survey Shelley Acres recorded in Book 4537, Page 700;
THENCE along the said West line the following 6 calls:
South 00°19'1.3" East a distance of 220.00 feet;
South 33°14'53" West a distance of 66.67 feet;
South 36°05'07" West a distance of 38.89 feet;
South 39°52'09" West a distance of 56.89 feet;
South 40°40'53" West a distance of 25.14 feet;
South 38°06'26" West a distance of 41.17 feet;
THENCE South 89°59'34" West a distance of 542.92 feet;
THENCE South 00°00'44" East a distance of 248.38 feet;
THENCE South 89°59'34" West a distance of 380.92 feet to a point on the East Right-of-Way of Interstate 35;
THENCE North 00°00'44" West, along said East Right-of-Way, a distance of 184.00 feet;
THENCE North 89°59'34" East, along said East Right-of-Way, a distance of 4.16 feet;
THENCE North 00°00'44" West, along said East Right-of-Way, a distance of 466.67 feet to the POINT OF BEGINNING.

LESS and EXCEPT (Book 5992, Page 1141):

A tract of land lying in the NW/4 of Section 35, T10N, R3W of the Indian Meridian, Cleveland County, Oklahoma, more particularly described as follows:

COMMENCING at the NW corner of the NW/4 of Section 35, T10N, R3W to a point on the North line of Section 35;
THENCE North 89°40'42.70" East along the North line of the NW/4 a distance of 2,600.26 feet;
THENCE South 00°38'10.04" East a distance of 61.89 feet to the POINT OF BEGINNING (POB);
THENCE continuing South 00°38'10.04" East a distance of 158.11 feet;
THENCE South 32°55'55.96" West a distance of 66.67 feet;
THENCE South 35°46'9.96" West a distance of 38.89 feet;
THENCE South 39°33'11.96" West a distance of 56.89 feet;
THENCE South 40°21'55.96" West a distance of 25.14 feet;
THENCE South 37°47'28.96" West a distance of 40.91 feet;
THENCE South 89°40'42.70" West a distance of 110.55 feet;
THENCE North 11°32'34.56" West a distance of 161.87 feet;
THENCE North 56°37'14.31" East a distance of 332.60 feet to the POB.

Transcribed by Lemke Land Surveying. LLC., from the Deeds recorded at Book 5508, Page 569 and Book 5992, Page 1141, filed in the offices of the County Clerk of Cleveland County, Oklahoma.

TOPOGRAPHIC SURVEY CERTIFICATE

I, MATT C. BARNUM, certify that:

1. *This project was completed under my direct and responsible charge from an actual survey made under my supervision.*
2. *This ground was performed at the percent confidence level to meet Federal Geographic Data Committee Standards.*
3. *This survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.*
4. *The survey was completed on March 17, 2020, and all coordinates are derived from the Oklahoma State Plane, NAD83, South Zone and all elevations are based on NAVD88.*
5. *We have examined a map by the Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM), for Cleveland County, Oklahoma and Incorporated areas, Map number 40027 C 0190 J, with an effective date of February 20, 2013, , which shows a portion of the property described hereon as located in hatched Zone (AE) which is classified as a Floodway area, and shaded Zone (AE) which is classified as areas determined to be special flood hazard areas inundated by 100-YEAR floods with base flood elevations determined. The remainder of the property described hereon is located in an unshaded Zone (X) which is classified as areas determined to be outside of the 500-YEAR floodplain, as graphically shown hereon.*
6. *The property described hereon contains 452,215 square feet, or 10.3814 acres, more or less.*
7. *This survey was performed without benefit of a current title commitment. Lemke Land Surveying, LLC did not abstract the subject property. While a cursory search of the county records was performed, there may be matters of record, unrecorded or prescriptive not shown hereon*

If the surveyor's signature is not red colored, the plan is a copy that should be assumed to contain unauthorized alterations. The certification contained on this document shall not apply to any copies.

MATT C. BARNUM 1742

MATT C. BARNUM, P.L.S. NO. 1742 DATED: 3/23/2020

THIS SHEET IS FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS INTENDED FOR GENERAL SURVEY INFORMATION ONLY. WALLACE DESIGN COLLECTIVE HAS NOT CONFIRMED ITS ACCURACY. SURVEY INFORMATION WAS REPRODUCED BY ELECTRONIC TRANSFER FROM THE SURVEYOR. ORIGINAL SURVEY DRAWINGS AVAILABLE FROM THE SURVEYOR.

*** FOR REFERENCE ONLY ***

LEMKE LAND SURVEYING, LLC
3220 BART CONNER DRIVE,
NORMAN, OK 73072
PH:(405)366-8541 FAX(405)366-8540
CA # 6975 http://www.lemke-la.com

Mark	Description	Date	Appr.

Surveyed By: PR/TC/RO
Drawn By: SA
Approved By: MB
Date: 3/23/2019
Scale: 1" = 40'
Project No: 20527

Project: TOPOGRAPHIC SURVEY FOR MOORE ANIMAL SHELTER
Project Location: PART OF THE NW/4 OF SEC. 35, T-10-N, R-3-W, I.M. MOORE, CLEVELAND COUNTY, OKLAHOMA
Client: CITY OF MOORE 301 N. BROADWAY, MOORE, OKLAHOMA

Sheet Number 1

C200

Sheet 1 of 2

G:\Projects\20527\Draft\Final\05_20527-Moore Shelter_C3D2018.dwg 3/23/2020 1:47:14 PM

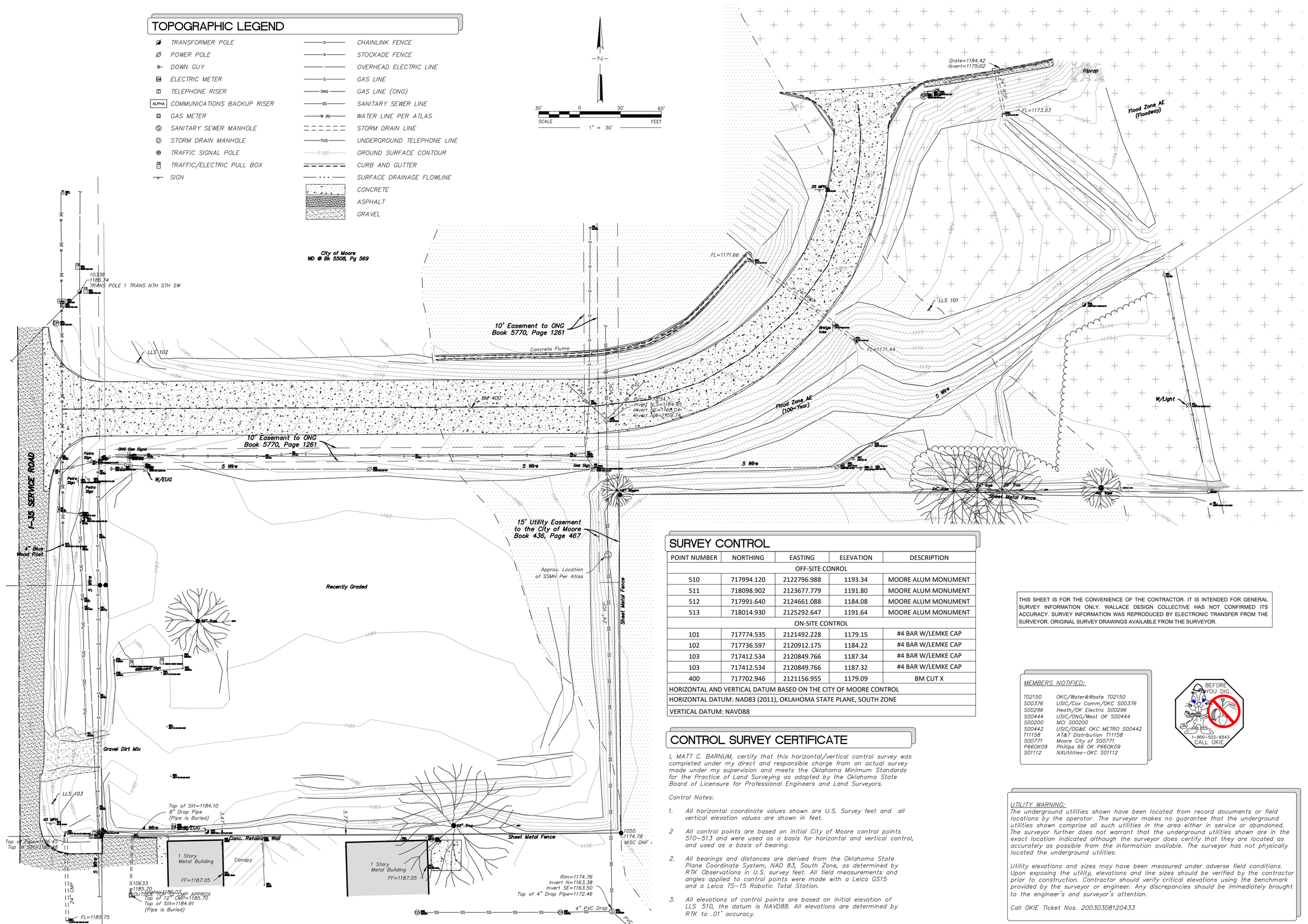
TOPOGRAPHIC LEGEND

- TRANSFORMER POLE
- POWER POLE
- DOWN GUY
- ELECTRIC METER
- TELEPHONE RISER
- COMMUNICATIONS BACKUP RISER (ALPHA)
- GAS METER
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- TRAFFIC SIGNAL POLE
- TRAFFIC/ELECTRIC PULL BOX
- SIGN
- CHAINLINK FENCE
- STOCKADE FENCE
- OVERHEAD ELECTRIC LINE
- GAS LINE
- GAS LINE (ONG)
- SANITARY SEWER LINE
- WATER LINE PER ATLAS
- STORM DRAIN LINE
- UNDERGROUND TELEPHONE LINE
- GROUND SURFACE CONTOUR (1185)
- CURB AND GUTTER
- SURFACE DRAINAGE FLOWLINE
- CONCRETE
- ASPHALT
- GRAVEL

N

30' 0 30' 60'

SCALE 1" = 30' FEET



SURVEY CONTROL

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
OFF-SITE CONROL				
510	717994.120	2122796.988	1193.34	MOORE ALUM MONUMENT
511	718098.902	2123677.779	1191.80	MOORE ALUM MONUMENT
512	717991.640	2124661.088	1184.08	MOORE ALUM MONUMENT
513	718014.930	2125292.647	1191.64	MOORE ALUM MONUMENT
ON-SITE CONTROL				
101	717774.535	2121492.228	1179.15	#4 BAR W/LEMKE CAP
102	717736.597	2120912.175	1184.22	#4 BAR W/LEMKE CAP
103	717412.534	2120849.766	1187.34	#4 BAR W/LEMKE CAP
103	717412.534	2120849.766	1187.32	#4 BAR W/LEMKE CAP
400	717702.946	2121156.955	1179.09	BM CUT X
HORIZONTAL AND VERTICAL DATUM BASED ON THE CITY OF MOORE CONTROL				
HORIZONTAL DATUM: NAD83 (2011), OKLAHOMA STATE PLANE, SOUTH ZONE				
VERTICAL DATUM: NAVD88				

CONTROL SURVEY CERTIFICATE

I, MATT C. BARNUM, certify that this horizontal/vertical control survey was completed under my direct and responsible charge from an actual survey made under my supervision and meets the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

Control Notes:

1. *All horizontal coordinate values shown are U.S. Survey feet and all vertical elevation values are shown in feet.*
2. *All control points are based on initial City of Moore control points 510–513 and were used as a basis for horizontal and vertical control, and used as a basis of bearing.*
3. *All bearings and distances are derived from the Oklahoma State Plane Coordinate System, NAD 83, South Zone, as determined by RTK Observations in U.S. survey feet. All field measurements and angles applied to control points were made with a Leica GS15 and a Leica TS–15 Robotic Total Station.*
4. *All elevations of control points are based on initial elevation of LLS 510, the datum is NAVD88. All elevations are determined by RTK to .01' accuracy.*
5. *All on–site control points were observed on March 6, 2020.*

THIS SHEET IS FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS INTENDED FOR GENERAL SURVEY INFORMATION ONLY. WALLACE DESIGN COLLECTIVE HAS NOT CONFIRMED ITS ACCURACY. SURVEY INFORMATION WAS REPRODUCED BY ELECTRONIC TRANSFER FROM THE SURVEYOR. ORIGINAL SURVEY DRAWINGS AVAILABLE FROM THE SURVEYOR.

MEMBERS NOTIFIED:

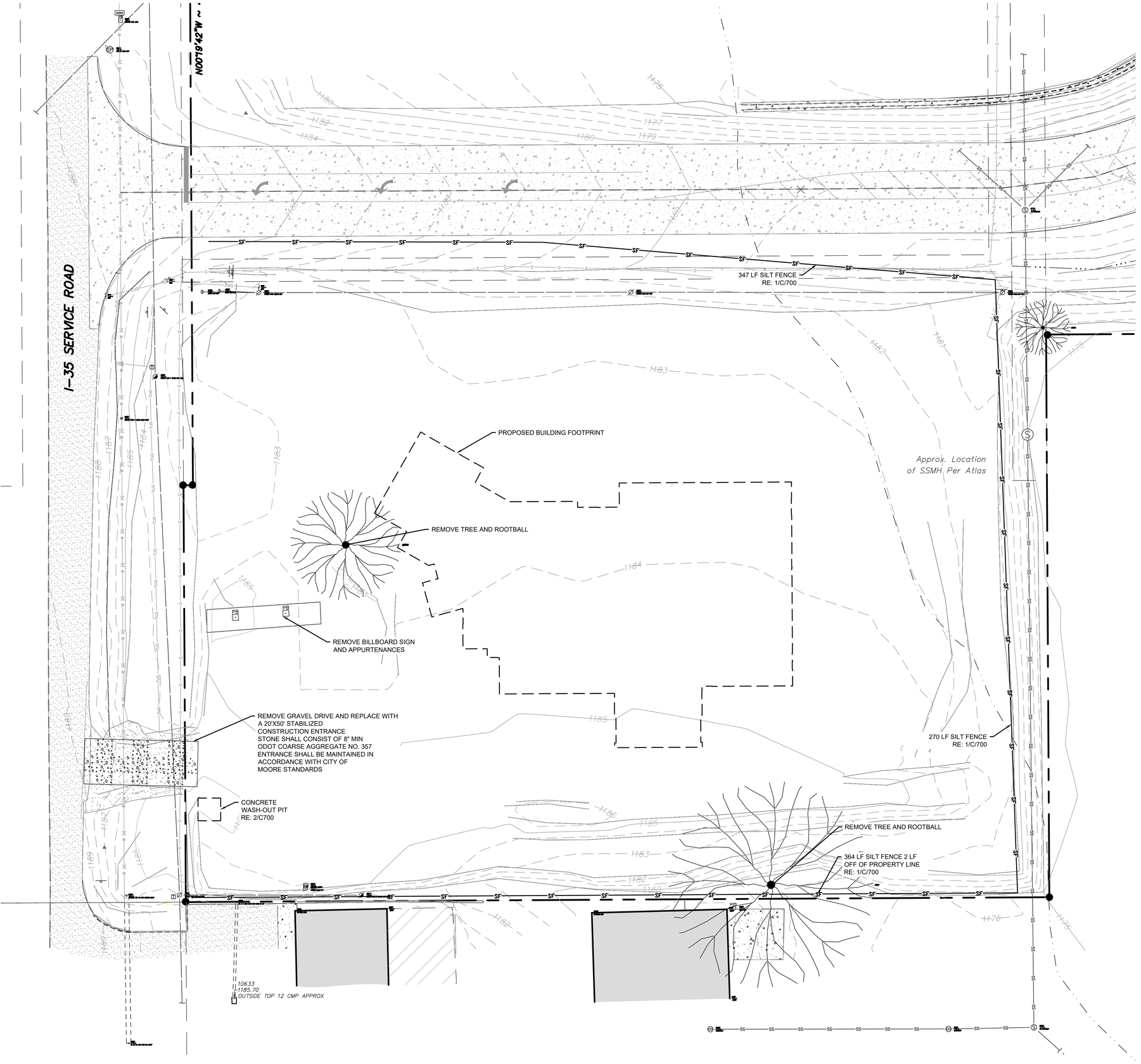
T02150	OKC/Water&Waste T02150
S00376	USIC/Cox Comm/OKC S00376
S00296	Heath/OK Electric S00296
S00444	USIC/ONG/West OK S00444
S00200	MCI S00200
S00442	USIC/OG&E OKC METRO S00442
T11158	AT&T Distribution T11158
S00771	Moore City of S00771
P660K09	Phillips 66 OK P660K09
S01112	NXUtilities–OKC S01112

UTILITY WARNING:
The underground utilities shown have been located from record documents or field locations by the operator. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from the information available. The surveyor has not physically located the underground utilities.

Utility elevations and sizes may have been measured under adverse field conditions. Upon exposing the utility, elevations and line sizes should be verified by the contractor prior to construction. Contractor should verify critical elevations using the benchmark provided by the surveyor or engineer. Any discrepancies should be immediately brought to the engineer's and surveyor's attention.

Call OKIE Ticket Nos. 20030308120433

*** FOR REFERENCE ONLY ***



20 0 10 20
1" =20

GENERAL DEMOLITION NOTES

1. ALL CONCRETE AND ASPHALT NOTED FOR REMOVAL SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE.

2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.

3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.

4. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. ALL COST SHALL BE INCLUDED IN BASE BID.

5. WITH PRIOR APPROVAL, CONTRACTOR MAY ESTABLISH AN ON-SITE STAGING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING STAGING AREA TO ITS ORIGINAL CONDITION. SECURITY OF STAGING AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ARCHITECT.

7. CONTRACTOR SHALL PROTECT ALL ABOVE GROUND UTILITY FEATURES NOT BEING REMOVED INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVES, AND INLETS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

8. SIX (6) FOOT CHAINLINK CONSTRUCTION FENCE SHALL BE MAINTAINED AND SECURED AROUND PERIMETER OF CONSTRUCTION SITE FOR DURATION OF PROJECT.

9.TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE, WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH PER SPECIFICATIONS ON THE GENERAL NOTES AND STORMWATER POLLUTION PREVENTION PLAN.

10.PRIOR TO UTILITY DEMOLITION COORDINATE WITH AUTHORITY HAVING JURISDICTION.

11.CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LANE CLOSURES, DETOURS, ETC. BOTH VEHICULAR AND PEDESTRIAN.

12.UTILITIES BEING REMOVED OR RELOCATED SHALL BE ISOLATED AND SERVICE DISCONNECTED PRIOR TO ANY DEMOLITION.

13.NO UTILITY INTERRUPTIONS WILL BE ALLOWED WITHOUT CONSENT OF THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT A MINIMUM OF FOUR WORKING DAYS PRIOR TO THE REQUESTED SHUT DOWN.

14.CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY SERVICE IF REQUIRED.

15.CONTRACTOR SHALL ENSURE CONSTRUCTION SITE HAS POSITIVE DRAINAGE THROUGHOUT THE DURATION OF CONSTRUCTION.

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wdcok.design
ok coa 1460
EXP. DATE: 06.30.23

CAUTION

NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

BEFORE YOU DIG 811 OKIE CALL OKIE

MOORE ANIMAL SHELTER
1316 SE 34TH STREET,
MOORE, OK 73160

LICENSED PROFESSIONAL ENGINEER
A. MILI ANGIER
32385
OKLAHOMA
6/07/22
SEAL

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- Master Planning
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Norman, Oklahoma
73069
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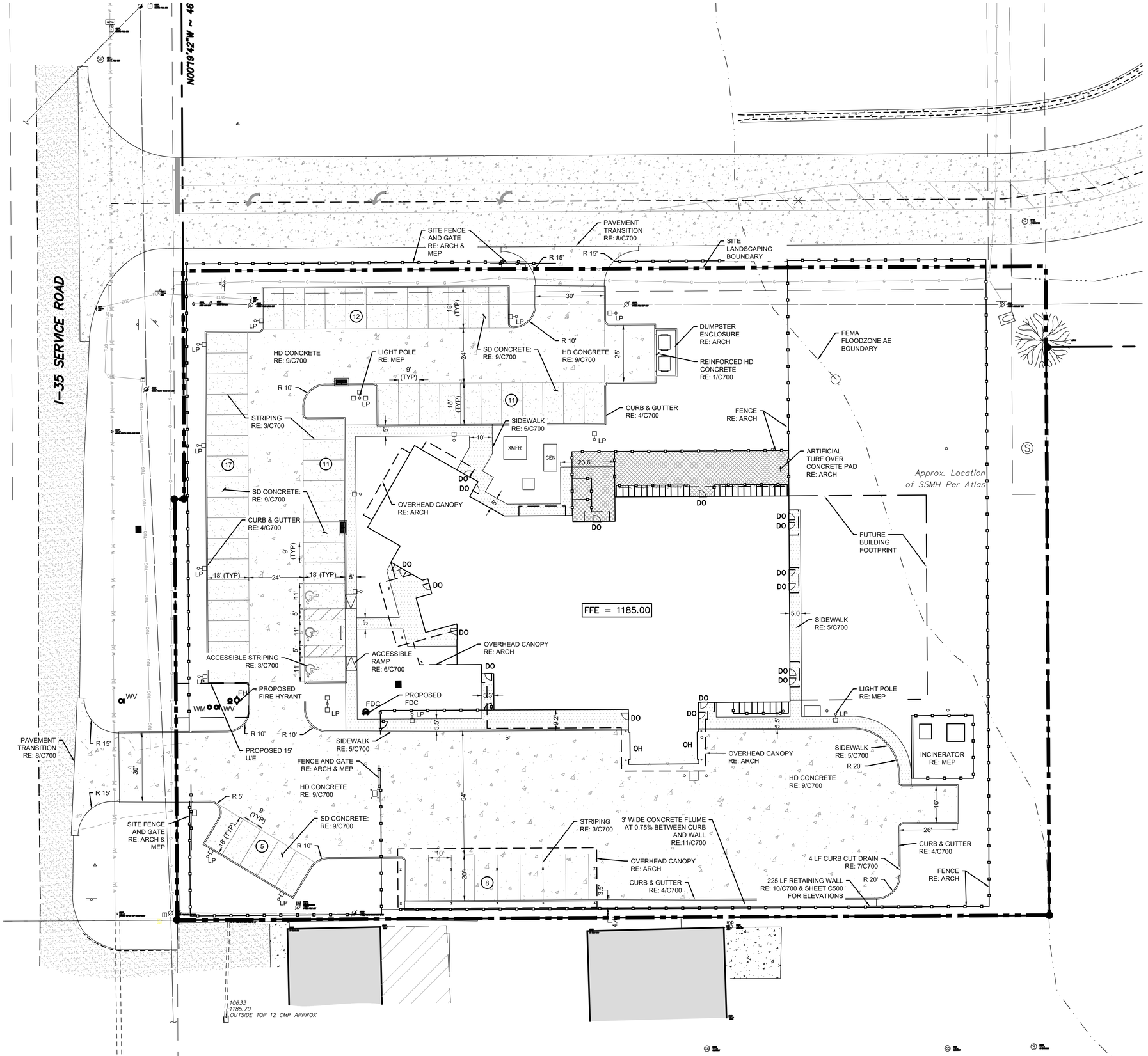
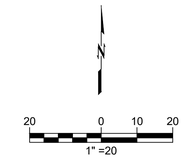
fax: 405.364.1567
OK CA No. 01771
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
06/07/2022
REVISION DATES

SHEET TITLE
DEMOLITION AND EROSION CONTROL PLAN
SHEET NUMBER
C300





GENERAL SITE NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL MUNICIPAL AND STATE REGULATIONS AND CODES, WHICHEVER IS MORE STRINGENT.

2. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.

4. ALL DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB UNLESS SHOWN OTHERWISE.

5. RADII = 2'-00" U.N.O.

6. BUILDING COORDINATES ARE TO OUTSIDE FACE OF WALL.

LEGEND

- STANDARD DUTY (SD) CONCRETE
- HEAVY DUTY (HD) CONCRETE
- SIDEWALK
- ARTIFICIAL TURF
- LANDSCAPE BOUNDARY LINE

PARKING SUMMARY

ACCESSIBLE	3
STANDARD PARKING	61
TOTAL PARKING	64

CAUTION

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EXP DATE: 06.30.23

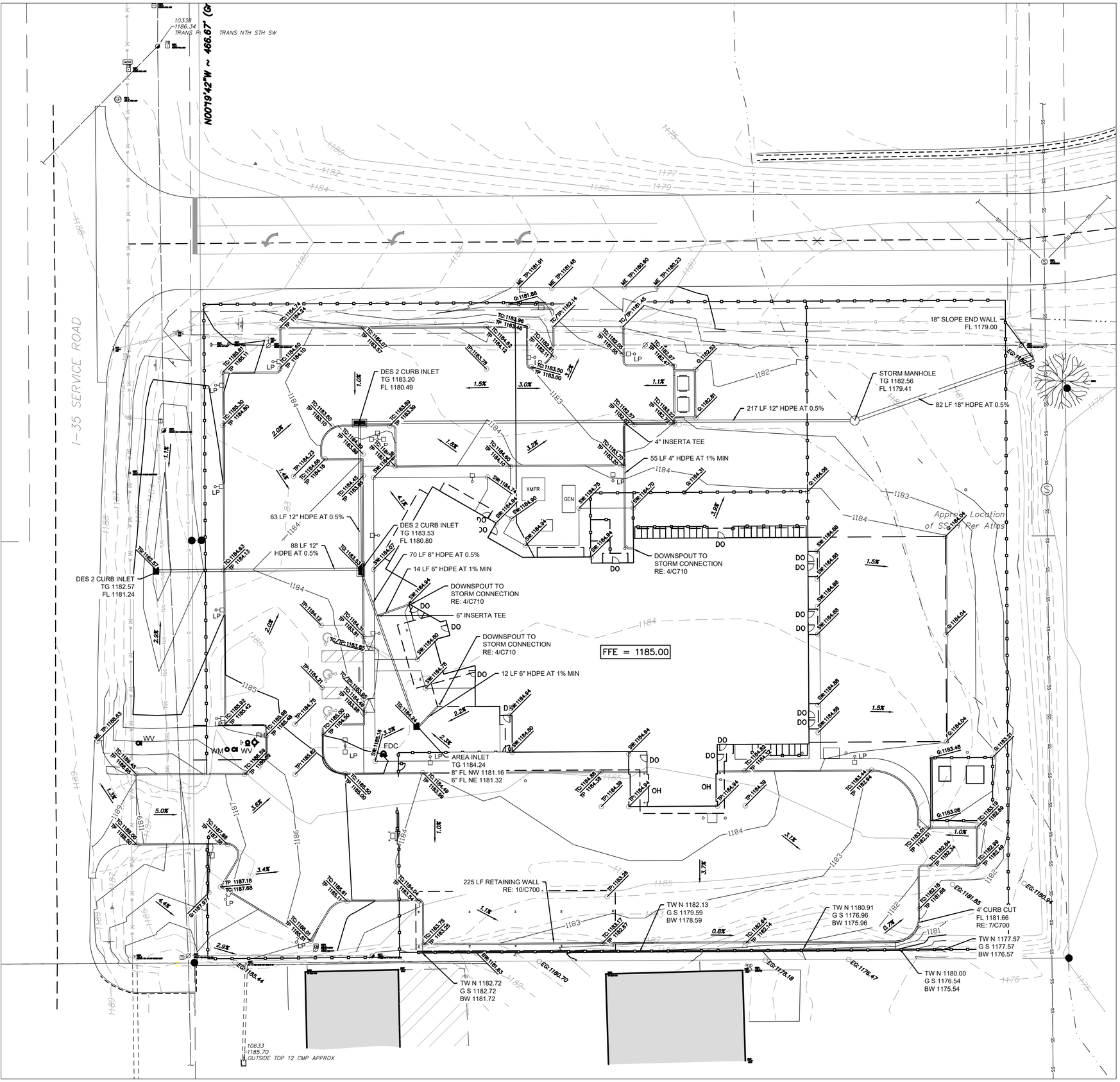
PROJECT NUMBER
M31114

ISSUE DATE
06/07/2022

REVISION DATES

SHEET TITLE
SITE PLAN

SHEET NUMBER
C400



20 0 10 20
1" =20

GENERAL GRADING NOTES

1. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED & INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

3. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

4. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

5. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.

6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS.

7. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO THE SAME.

8. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.

9. SIDEWALKS SHALL HAVE MAX 2% CROSS SLOPE.

GRADING LEGEND

BC	BACK OF CURB
BW	BOTTOM OF WALL
ME	MATCH EXISTING
G	FINISH GRADE
SW	SIDEWALK
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TR	TOP OF RIM
TW	TOP OF WALL

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BEFORE YOU DIG 1-800-522-OKIE CALL OKIE

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MOORE, OK 73160

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ok:ca 1460
EXP DATE: 06.30.23

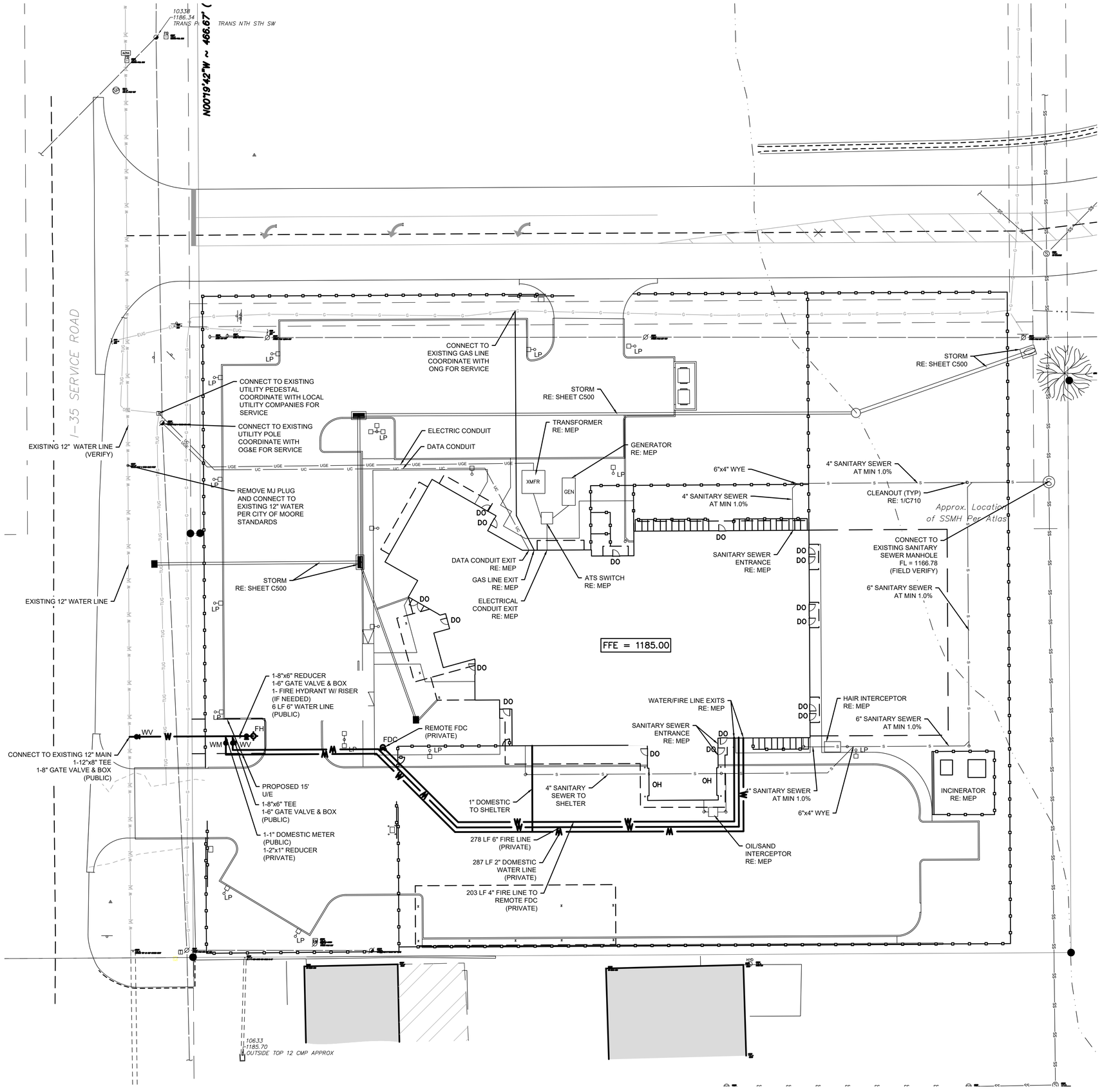
PROJECT NUMBER
M31114

ISSUE DATE
06/07/2022

REVISION DATES

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C500



N

20 0 10 20

1" =20

GENERAL UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE.

2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.

3. RESTRAINED JOINTS SHALL BE PROVIDED ON 4" AND LARGER WATER LINES AT ALL BENDS TEES AND FIRE HYDRANTS FOR A MINIMUM 2 JOINTS BOTH SIDES OF FITTING PER AWWA MINIMUM STANDARDS.

4. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.

5. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.

6. REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL.

7. ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE.

8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.

9. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.

10.CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.

11.UTILITY TRENCH DETAIL RE: 2/C710. STORM TRENCH DETAIL RE: 3/C710.

12.REFER TO MEP FOR CONTINUATION OF UTILITIES AT BUILDING.

13.PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).

14.CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOILS OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.

15. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

16. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.

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PROJECT NUMBER
M31114

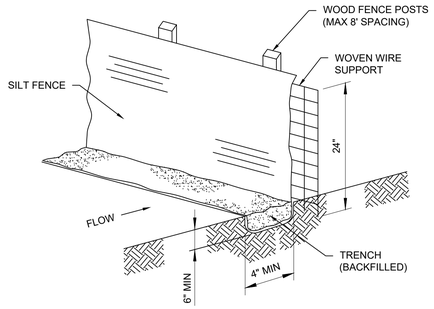
ISSUE DATE
06/07/2022

REVISION DATES

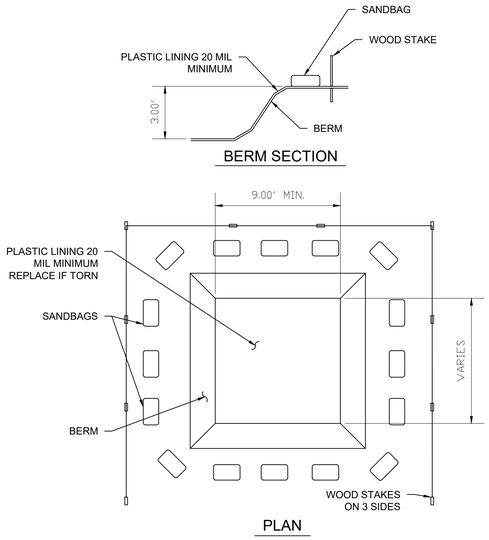
SHEET TITLE
UTILITY PLAN

SHEET NUMBER
C600

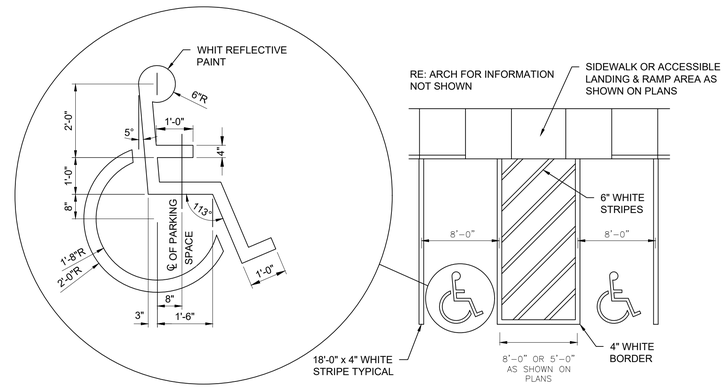
THE DRAWINGS AND OTHER INFORMATION CONTAINED ON THIS SHEET ARE TO BE USED ONLY IN CONNECTION WITH THE PROJECT LOCATED AT THE PROJECT ADDRESS SHOWN IN THE TITLE BLOCK



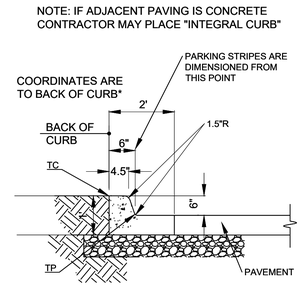
1 SILT FENCE
SCALE: NTS



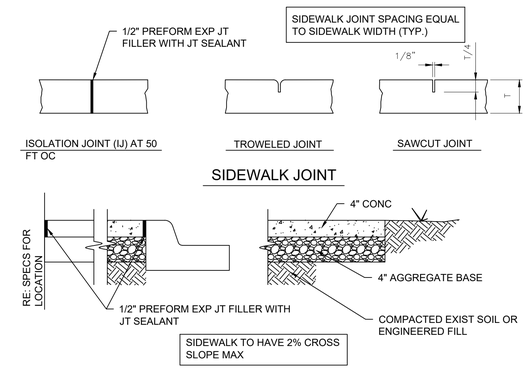
2 CONCRETE WASHOUT PIT
SCALE: NTS



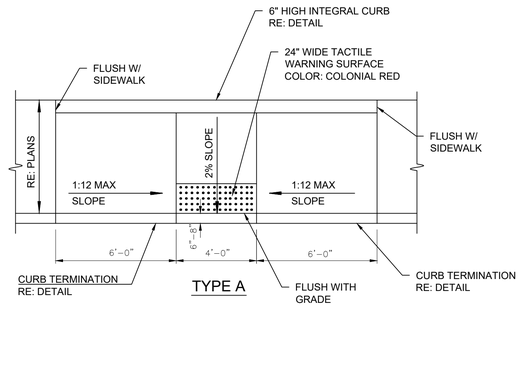
3 ACCESSIBLE STRIPING
SCALE: NTS



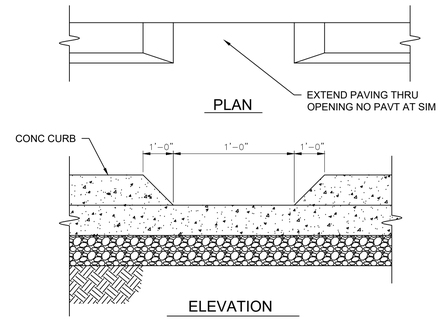
4 CURB AND GUTTER (BARRIER)
SCALE: NTS



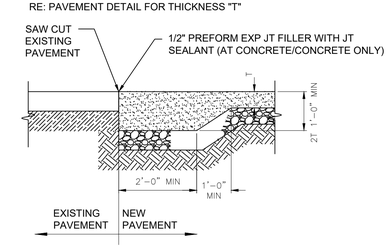
5 SIDEWALK
SCALE: NTS



6 ACCESSIBLE RAMP DETAIL
SCALE: NTS



7 CURB CUT DRAIN
SCALE: NTS

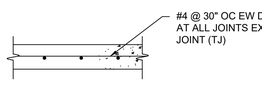


8 CONCRETE TRANSITION
SCALE: NTS

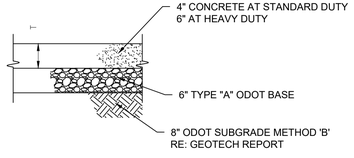
ALL PAVEMENT IS STANARD DUTY
UNLESS NOTED ON PLANS

IF EXIST PAVING THICKNESS
IS GREATER THAN SHOWN
MATCH EXISTING

NOTE: FOR REINFORCED CONCRETE PAVEMENT USE
EVAPORATION REDUCER (MONOMOLECULAR FILM) RE:
SPECS



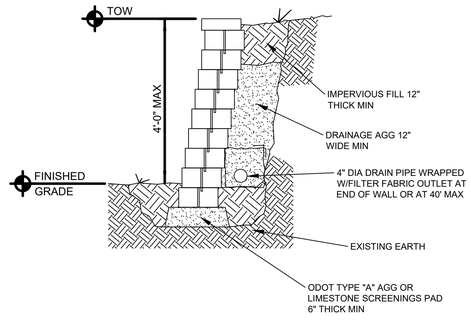
REINFORCED CONCRETE PAVEMENT



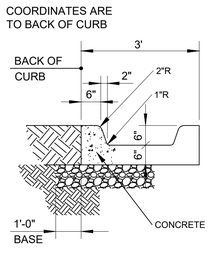
CONCRETE PAVEMENT

9 PAVEMENT DETAIL
SCALE: NTS

NOTE: MODULAR BLOCK RETAINING WALL SHALL BE DESIGNED BY
MANUFACTURER VERSALOK OR APPROVED EQUAL.
(DETAIL SHOWN FOR INFORMATION ONLY)
RETAINING WALL SHALL BE DESIGNED, SIGNED AND SEALED BY A
REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF OKLAHOMA



10 NON-REINFORCED MODULAR BLOCK RETAINING WALL
SCALE: NTS



11 CURBED CONCRETE FLUME
SCALE: NTS

MOORE ANIMAL SHELTER
1316 SE 34TH STREET,
MOORE, OK 73160

LICENSED PROFESSIONAL ENGINEER
A. MILI ANGIER
32385
OKLAHOMA
SEAL
6/07/22

Barrett L. Williamson
ARCHITECTS

- Architecture
- Historic Preservation
- Master Planning
- Interior Design

219 W. Boyd, Suite 203
Norman, Oklahoma
73069
tel: 405.360.1566
fax: 405.364.1567
OK CA No. 01771
06-30-21

06-30-23

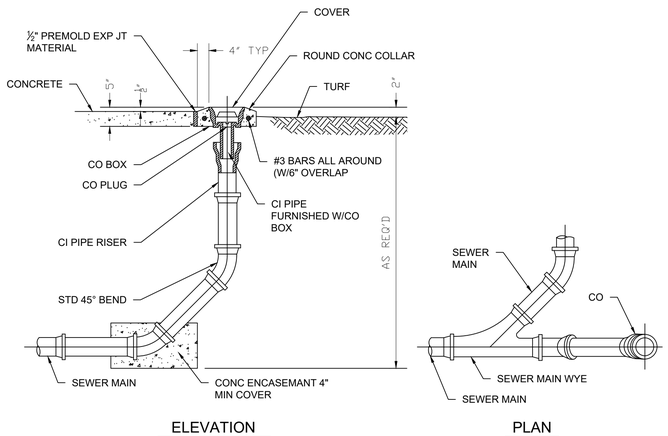
PROJECT NUMBER
M31114

ISSUE DATE
06/07/2022

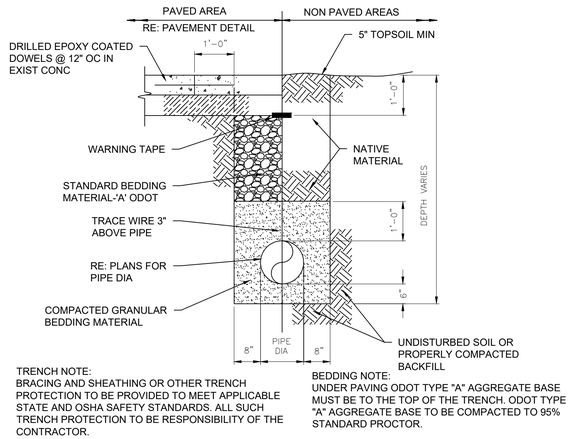
REVISION DATES

SHEET TITLE
DETAILS

SHEET NUMBER
C700



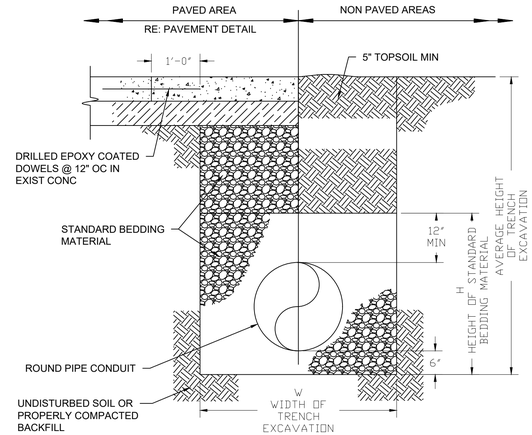
1 CLEANOUT
SCALE: NTS



TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING NOTE:
UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

2 PIPE TRENCH-ALL PIPES EXCEPT STORM SEWER
SCALE: NTS



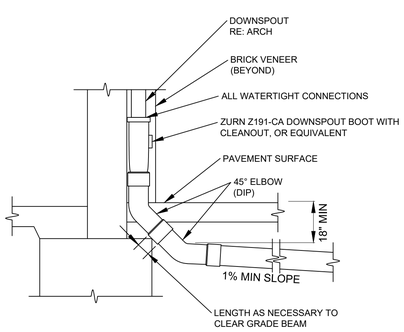
LIMITS OF STANDARD BEDDING MATERIAL QUANTITIES FOR BEDDING MATERIAL DO NOT INCLUDE THE SPACE WITHIN AND BOUNDED BY THE OUTER SURFACE OF THE PIPE CONDUIT.

TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING NOTE:
STANDARD BEDDING MUST BE ODOT TYPE "A" AGGREGATE BASE.
UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

PIPE SIZE, IN.	TRENCH WIDTH, FT.
ID < 24"	OD + 2'
24" > ID < 36"	OD + 2.5'
36" > ID < 60"	OD + 3.5'
ID > 60"	OD + 4'

3 STANDARD PIPE BEDDING DETAIL FOR STORM SEWER
SCALE: NTS



4 DOWNSPOUT TO STORMDRAIN CONNECTION
SCALE: NTS

CAUTION
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

MOORE ANIMAL SHELTER
1316 SE 34TH STREET,
MOORE, OK 73160

SEAL

Barrett L. Williamson
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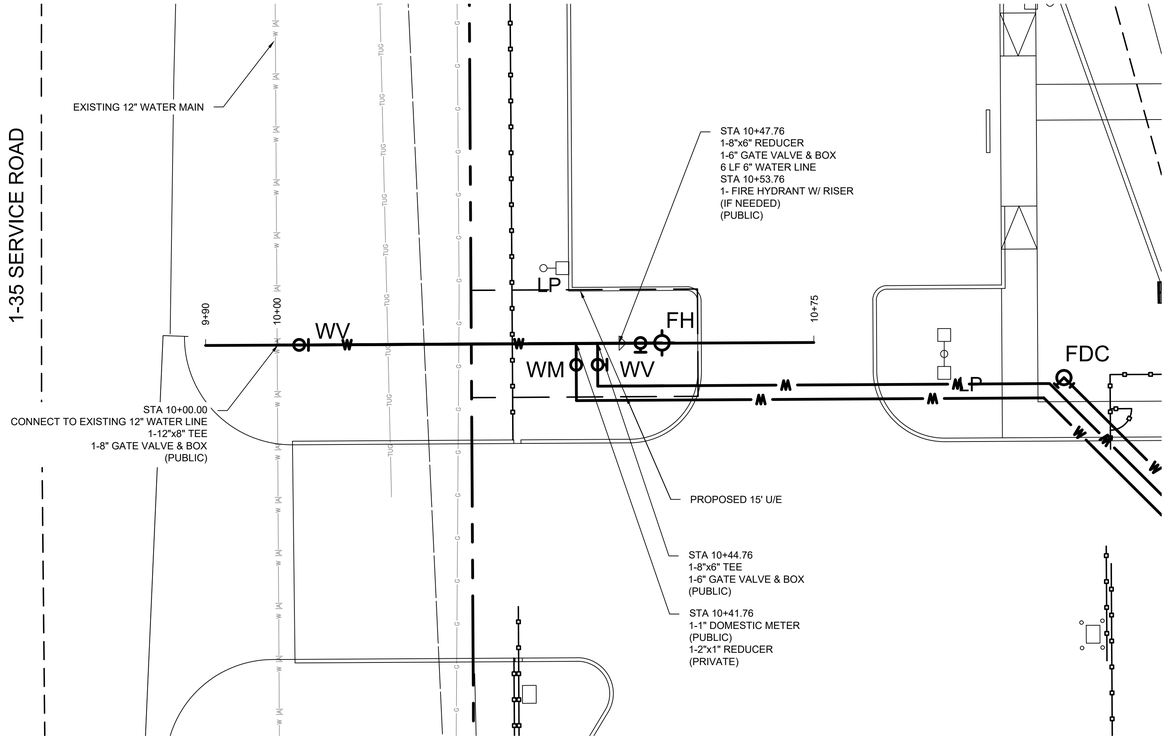
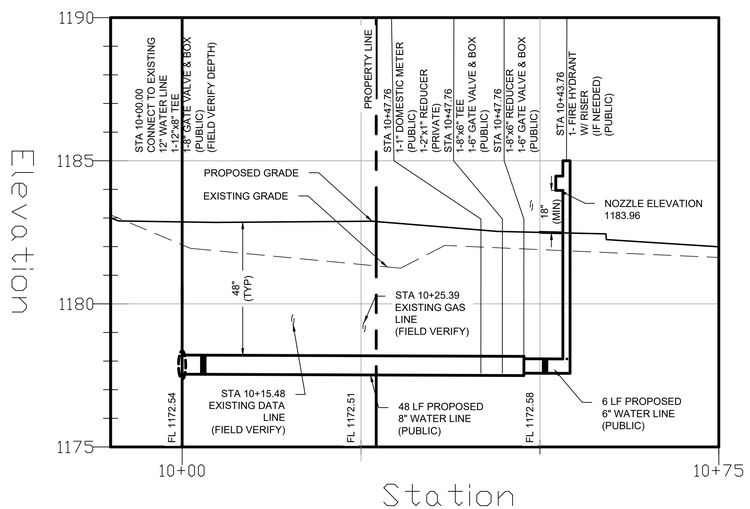
OK CA No. 01771
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
06/07/2022
REVISION DATES

SHEET TITLE
DETAILS

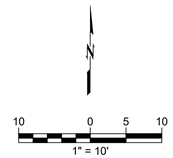
SHEET NUMBER
C710





8" WATER LINE PROFILE

SCALE
HORIZ 1" = 10'
VERT 1" = 2.5'



MOORE ANIMAL SHELTER
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LICENSED PROFESSIONAL ENGINEER
A. MILI ANGIER
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OKLAHOMA
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OK CA No. 01771
06-30-23

wallace design collective

wallace design collective, pc
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wallace.design
ok ca 1460
EXP. DATE: 06.30.23

PROJECT NUMBER
M31114

ISSUE DATE
06/07/2022

REVISION DATES

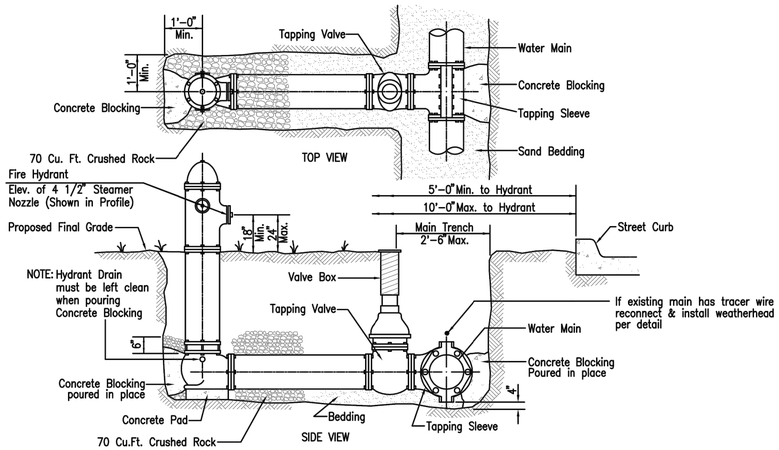
SHEET TITLE
WATER LINE PLAN AND PROFILE

SHEET NUMBER
C800

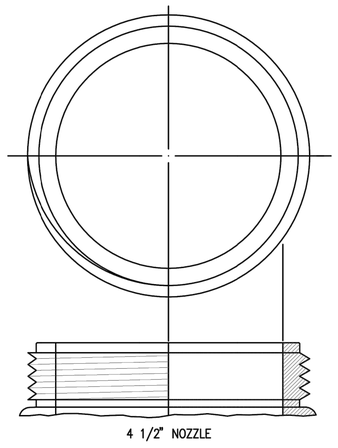
THE DRAWINGS AND OTHER INFORMATION CONTAINED ON THIS SHEET ARE TO BE USED ONLY IN CONNECTION WITH THE PROJECT LOCATED AT THE PROJECT ADDRESS SHOWN IN THE TITLE BLOCK.

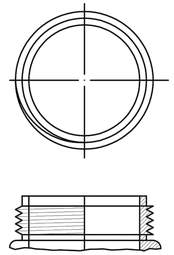
CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES



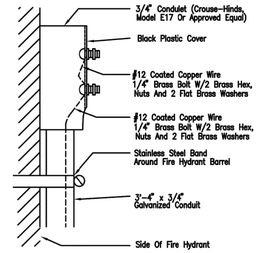
INSTALLATION OF FIRE HYDRANT ON EXISTING MAIN



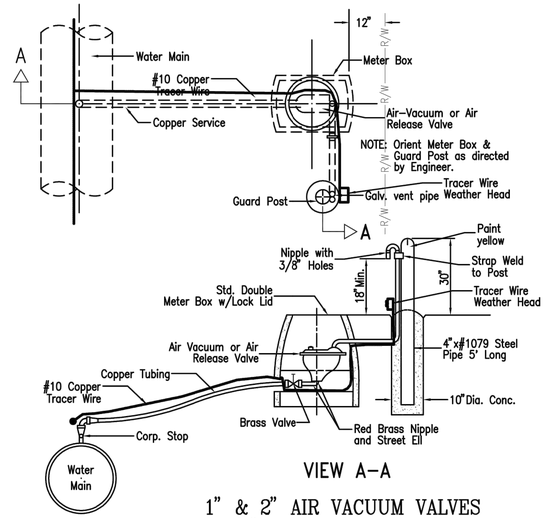


Threads Shall be National Standard Threads

FIRE HYDRANT NOZZLE THREADS

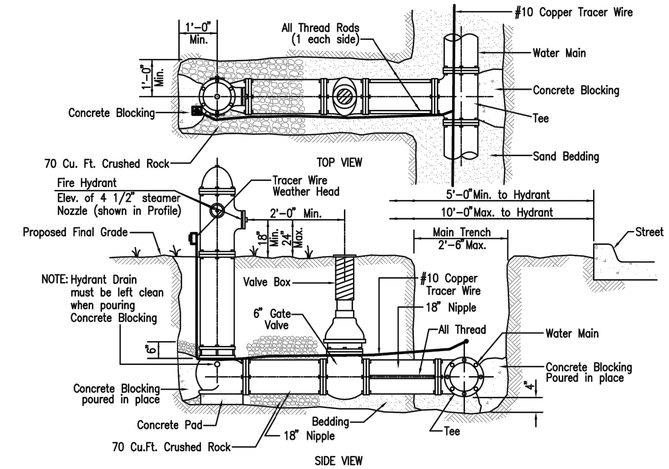


TRACER WIRE WEATHER-HEAD DETAIL

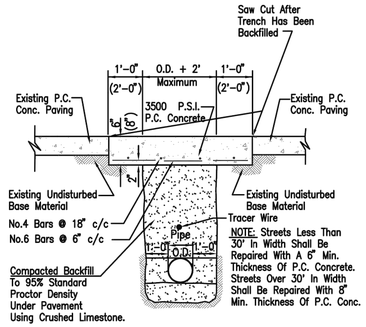


VIEW A-A

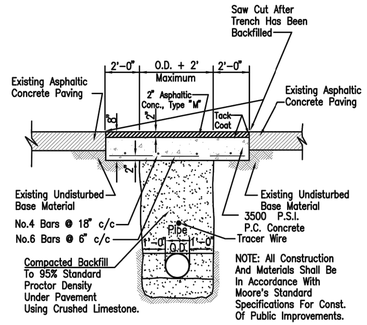
1" & 2" AIR VACUUM VALVES
3/4" AIR RELEASE VALVES



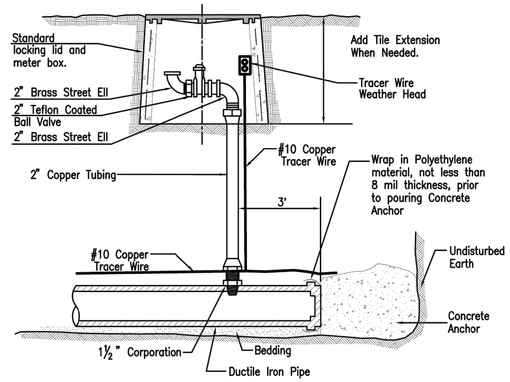
INSTALLATION OF FIRE HYDRANT ON NEW MAIN



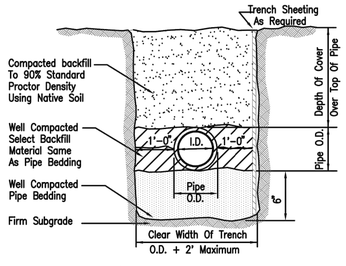
TYPICAL PERMANENT REPAIR FOR P.C. CONCRETE PAVING



TYPICAL PERMANENT REPAIR FOR ASPHALTIC CONCRETE PAVING



2" BLOW OFF



1) Pipe Bedding And Select Backfill Shall Be Well Graded Crushed Stone Or Crushed Gravel 1/4" To 1/2".

2) The Pipe Bedding And Select Backfill Shall Be Compacted To 90% Standard Proctor Density. Compaction Shall Be Done By Power Tamping.

TYPICAL BEDDING & TRENCH DETAILS

Standard Notes Water

Note 1 All Fire Hydrants & Valve Boxes to be set to proposed final grade with 4 1/2" steamer nozzle a minimum at 18" & a Maximum of 24" above ground level. All fire hydrants to have ductile iron leads.

Note 2 All existing water mains being abandoned by this project are to remain the property of the City of Moore and shall be salvaged by the Water/Wastewater Department at their discretion. However, items in the way of construction may be removed and delivered to the Water Department Warehouse.

Note 3 Concrete encase Sanitary Sewer or install Cast Iron Pipe 10 feet either side of water main, to be measured at right angles, in accordance with Oklahoma Department of Environmental Quality Standards.

Note 4 When crossing streets, driveways subject to heavy traffic, alleys and structures, etc., pipe shall be installed with special backfill, see detail this sheet. All other pipe to be installed in accordance with manufacturers recommendations or City specification.

Note 5 Set end of main stubs in Cul-de-sacs at a point 5.0' off property line. This point being in line with side property line.

Note 6 In instances where flow lines are not indicated on the drawings, main shall be constructed with a minimum of 4' cover or as directed by the Field Engineer.

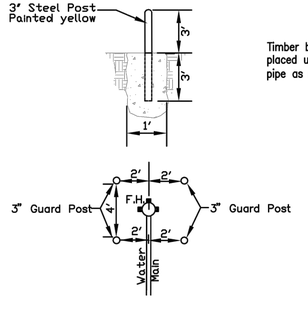
Note 7 All staking for alignment and grade will be done under the supervision of a Registered Professional Engineer or a Registered Land Surveyor. Grade stakes will be marked and cut sheets will be furnished to the City Inspector on the project prior to construction.

Note 8 Unless specifically authorized, all Gate Valves are to be located at P.C. or P.T. of street curb. When Fire Hydrants are required they shall be located within 5' of Gate Valves.

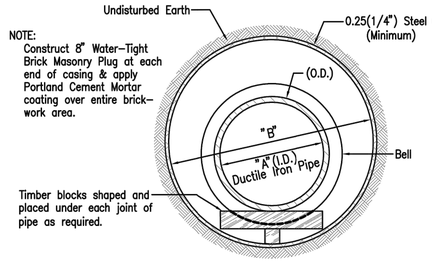
Note 9 Poly wrap all cast or ductile steel fittings prior to backfilling or placing concrete blocking.

General Note

All construction to be in accordance with current City Standards and Specifications



GUARD POST DETAIL
TYPICAL ALL HYDRANTS LOCATED IN TRAFFIC AREAS



TYPICAL SECTION FOR BORING PUBLIC STREETS
Water Main Installations

PIPE & STEEL CASING SCHEDULE	
PIPE DIAMETER "A"	CASING DIAMETER "B"
4	10"
6	12"
8	14" or 16"
10	18"
12	20"
16	24"
18	26"
20	30"
24	33"

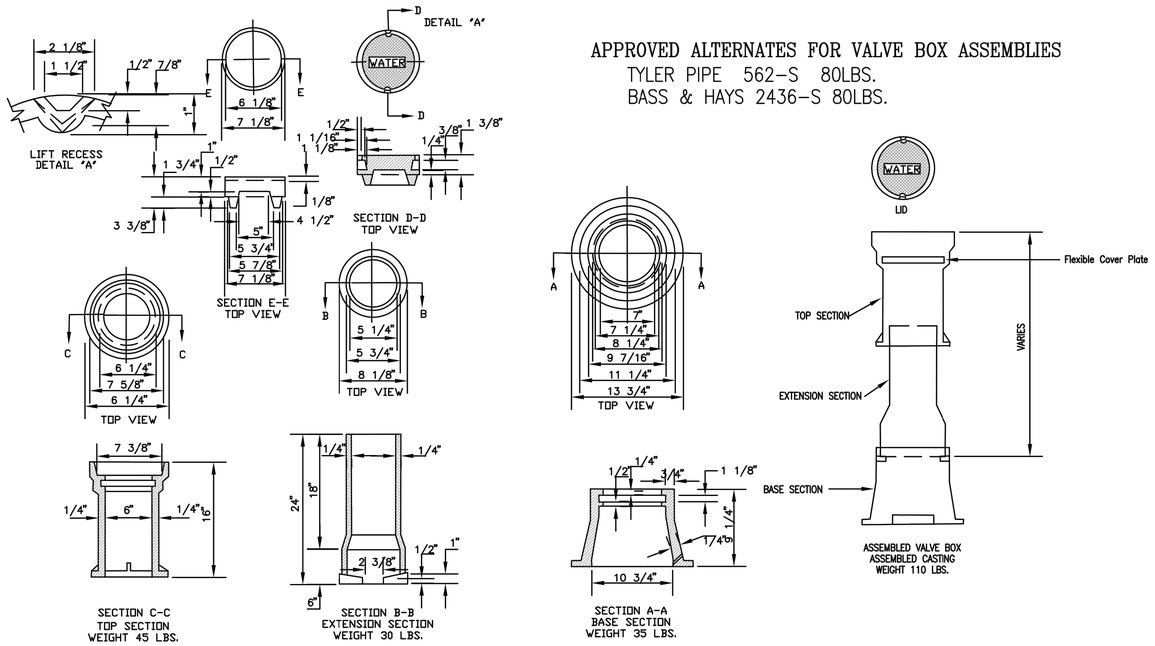
The City of MOORE Oklahoma

Water Standard Details No. 101

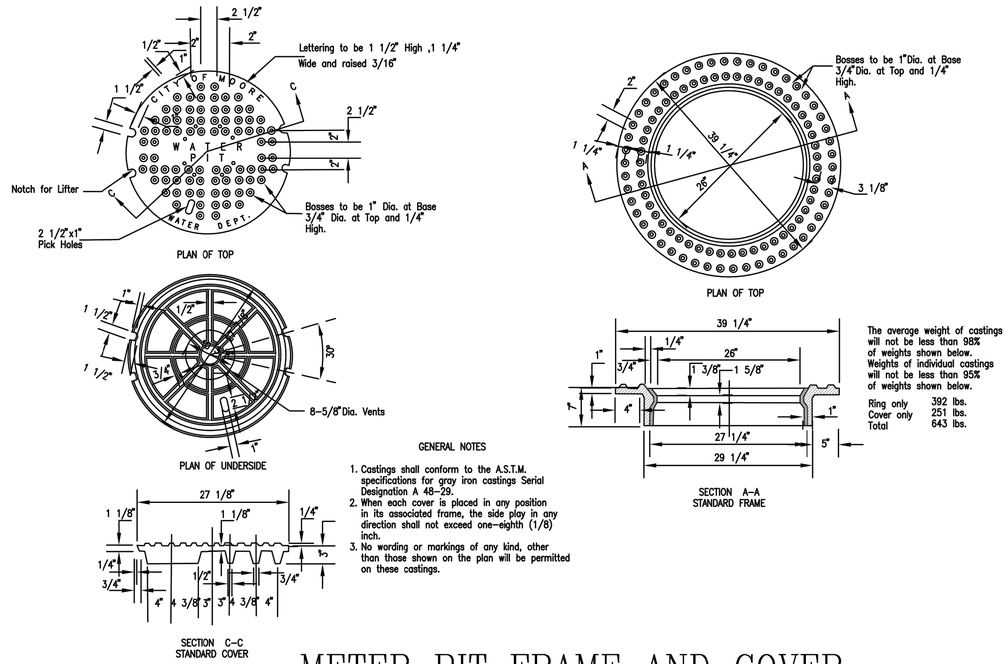
APPROVED BY: Donald Vick DONALD VICK, P.E. CITY ENGINEER DATE 03/06/2008

REVISED: 03/05/2008

APPROVED ALTERNATES FOR VALVE BOX ASSEMBLIES
TYLER PIPE 562-S 80LBS.
BASS & HAYS 2436-S 80LBS.



CAST IRON VALVE BOX AND LID



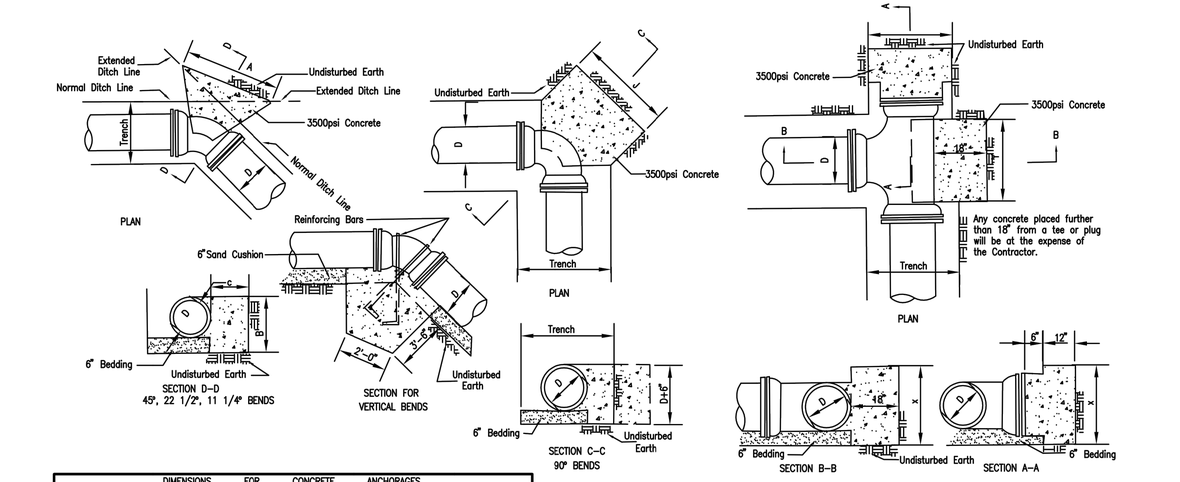
GENERAL NOTES

1. Castings shall conform to the A.S.T.M. specifications for gray iron castings Serial Designation A 48-29.
2. When each cover is placed in any position in its associated frame, the side play in any direction shall not exceed one-eighth (1/8) inch.
3. No wording or markings of any kind, other than those shown on the plan will be permitted on these castings.

The average weight of castings will not be less than 98% of weights shown below. Weights of individual castings will not be less than 95% of weights shown below.

Ring only	392 lbs.
Cover only	251 lbs.
Total	643 lbs.

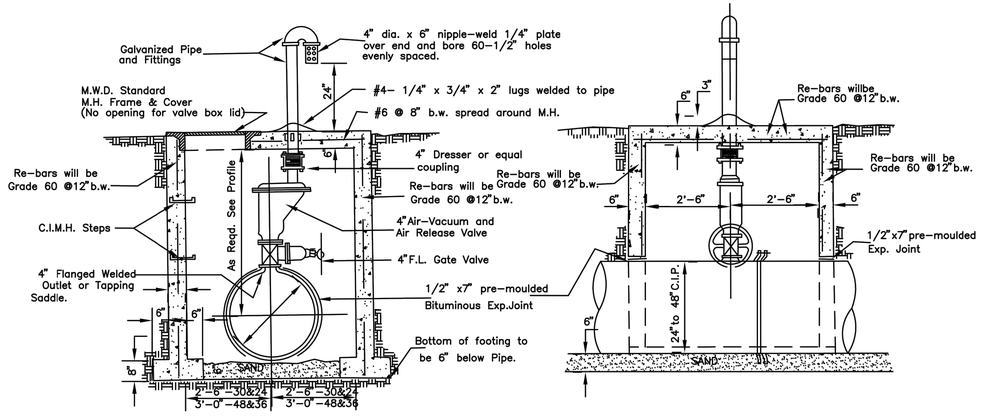
METER PIT FRAME AND COVER



PIPE DIA.	TRENCH WIDTH	DIMENSIONS FOR CONCRETE ANCHORAGES											
		45° BEND			22 1/2° BEND			11 1/4° BEND			TEE OR PLUG		
		A	B	C	A	B	C	A	B	C	X	Y	J
36	60	7'-0"	3'-0"	2'-6"	6'-0"	3'-0"	2'-6"	6'-0"	3'-0"	2'-6"	4'-0"	3'-4"	6'-5"
30	54	5'-6"	2'-6"	2'-0"	4'-6"	2'-6"	2'-0"	4'-6"	2'-6"	2'-0"	3'-6"	3'-0"	5'-8"
24	44	3'-9"	2'-6"	1'-10"	2'-6"	2'-6"	1'-1"	2'-0"	2'-6"	1'-0"	3'-3"	3'-0"	4'-9"
20	39	2'-9"	2'-2"	1'-8"	2'-0"	2'-2"	1'-1"	2'-0"	2'-2"	11"	3'-0"	2'-0"	4'-1"
18	37	2'-3"	2'-0"	1'-6"	2'-0"	2'-0"	1'-1"	2'-0"	2'-0"	11"	2'-3"	2'-0"	3'-9"
16	35	2'-0"	1'-10"	1'-5"	2'-0"	1'-10"	1'-1"	2'-0"	1'-10"	11"	1'-6"	2'-0"	3'-6"
12	30	2'-0"	1'-6"	1'-4"	2'-0"	1'-6"	1'-0"	2'-0"	1'-6"	11"	1'-0"	2'-0"	3'-0"
10	28	2'-0"	1'-4"	1'-4"	2'-0"	1'-4"	1'-0"	1'-10"	1'-4"	11"	1'-0"	1'-0"	2'-8"
8	26	2'-0"	1'-2"	1'-4"	1'-10"	1'-2"	1'-0"	1'-8"	1'-2"	11"	10"	1'-6"	2'-4"
6	24	2'-0"	1'-1"	1'-4"	1'-8"	1'-1"	1'-0"	1'-6"	1'-1"	11"	8"	1'-4"	2'-1"

HORIZONTAL - CONCRETE ANCHORAGES

NOTE: ALL VERTICAL BENDS SHALL ALSO BE SECURED WITH MEGA LUG FITTINGS



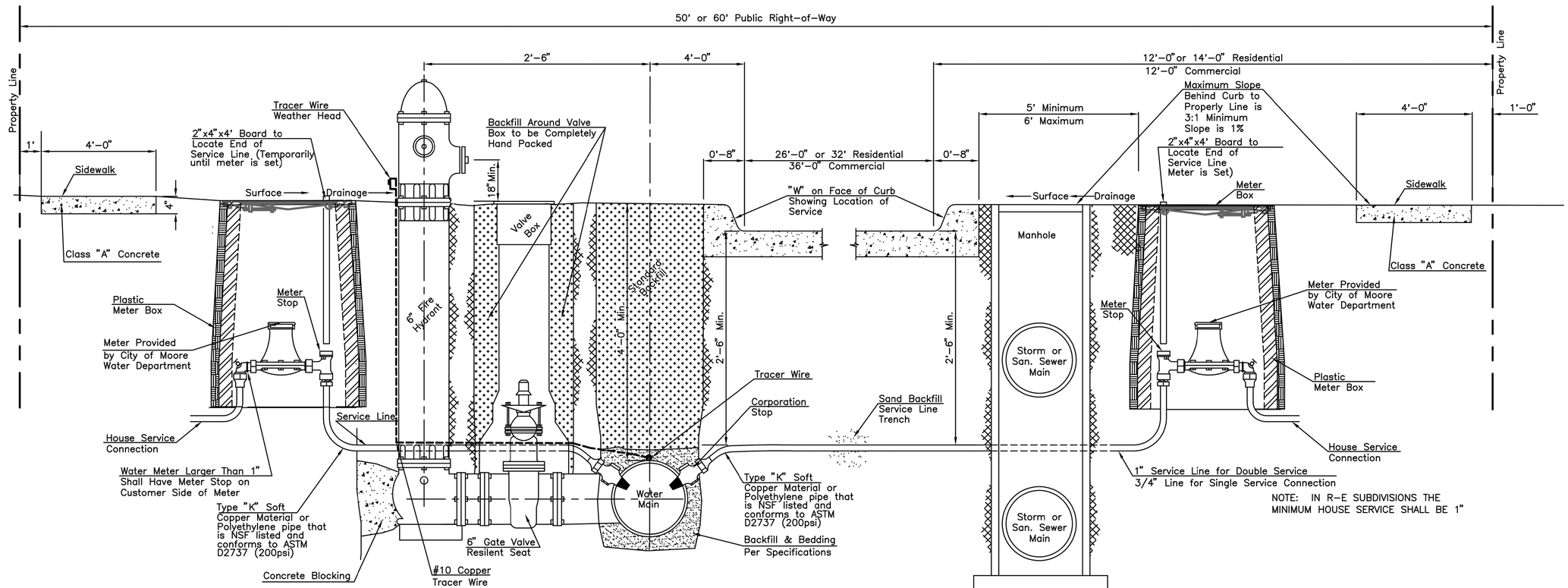
DETAIL OF 4" AIR VACUUM AND AIR RELEASE VALVE

The City of MOORE Oklahoma

Water Standard Details No. 102

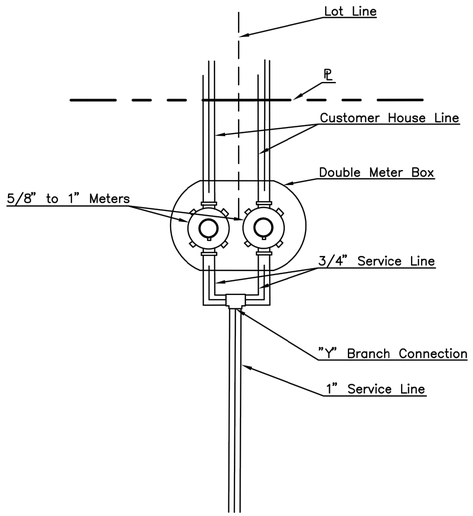
APPROVED BY: Donald Vick DATE 03/06/2008
DONALD VICK, P.E.
CITY ENGINEER

REVISED: 03/05/2008



UTILITY LOCATION STANDARD

N.T.S.



TYPICAL METER SETTING

N.T.S.

Notes:

1. Taps for Corporation Stops are to be made horizontally or at an angle of 45° with the horizontal (never vertically). Multiple Taps (two or more) are to be staggered around the Pipe Circumference and be at least 12" inches apart. All Taps are to be made in those Sections of Mains not under pavement. Particular attention will be given to their location around Cul-de-sacs, Eyebrows, Etc.

2. Water meters and boxes shall not be installed until all the earthwork between the curb and right-of-way line has been completed and approved by the City Inspector.

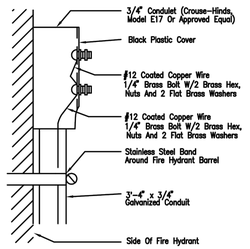
3. All PVC waterline shall have A #10 copper tracer wire installed with the pipe.

4. All PVC waterline shall be C-900 DR14.

5. Fire hydrants shall not exceed 500' in separation based on hose laying distance or 300 feet in commercial or high density area.

6. The distance from the fire department connection of a sprinkler system to a fire hydrant shall not exceed 100'.

7. If polyethylene pipe is used for service lines, then insert stiffeners shall be installed in the ends of the poly pipe before installing the FORD pack joint coupling.



TRACER WIRE WEATHER-HEAD DETAIL

The City of MOORE Oklahoma

Water Standard Details No. 103

APPROVED BY: Donald Vick DATE 03/06/2008
DONALD VICK, P.E.
CITY ENGINEER

REVISED: 03/05/2008

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DESIGN PARAMETERS (MAIN BUILDING)

REFER TO SHEET S601 FOR STORM SHELTER PARAMETERS

1. DESIGN CODES AND STANDARDS

A. BUILDING CODE: IBC 2015 WITH CITY OF MOORE LOCAL AMENDMENTS	
RISK CATEGORY	II

B. MATERIAL CODES AND STANDARDS
DESIGN LOADS:
ASCE 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
CONCRETE:
ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
MASONRY:
ACI 530-13 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
STEEL:
AISC 360-10 - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
AISC 341-10 - SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS

2. GRAVITY LOADS

A. ROOF DEAD LOADS	
ROOFING AND INSULATION	2 PSF
METAL DECK	2 PSF
MECH., ELEC. AND PLUMBING [AND SPRINKLERS]	4 PSF
CEILINGS	2 PSF
MISCELLANEOUS	2 PSF
TOTAL SUPERIMPOSED ROOF DEAD LOAD	12 PSF
ROOF STRUCTURE	ACTUAL WEIGHT
MINIMUM ROOF DEAD LOAD (TO BE USED WITH GROSS UPLIFT)	7 PSF
C. LIVE LOADS (UNIFORM/CONCENTRATED)	
ROOF	20 PSF / 300 LB

3. ROOF SNOW LOAD

A. GROUND SNOW LOAD, Pg	10.0 PSF
B. FLAT ROOF SNOW LOAD, Pf	7.0 PSF
C. SNOW EXPOSURE FACTOR, Ce	1.0
D. SNOW LOAD IMPORTANCE FACTOR, I	1.0
E. THERMAL FACTOR, Ct	1.0
F. RAIN ON SNOW	5.0 PSF

4. WIND DESIGN DATA

A. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), Vult	115 MPH
NOMINAL DESIGN WIND SPEED (3 SECOND GUST), Vasd	90 MPH
B. WIND EXPOSURE CATEGORY	C
C. INTERNAL PRESSURE COEFFICIENT, GCpi	+/- 0.18
D. DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING	

ROOF PRESSURES (1.0W)		
	EFFECTIVE TRIBUTARY AREA	
	≤10 SQ. FT.	≥100 SQ. FT.
ZONE 1	-26.4 PSF	-24 PSF
ZONE 2	46 PSF	-33.8 PSF
ZONE 3	-68 PSF	-53.3 PSF
ZONE 1, 2 & 3	16.6 PSF	16 PSF

WALL PRESSURES (1.0W)		
	EFFECTIVE TRIBUTARY AREA	
	≤10 SQ. FT.	≥500 SQ. FT.
ZONE 4	-28.6 PSF	-22 PSF
ZONE 5	-35.2 PSF	-22 PSF
ZONE 4 & 5	26.4 PSF	19.8 PSF

NOTES:
1. RE: ASCE 7-10 FIGURES 30.4-1 AND 30.4-2A
2. REFER TO CODE FOR EFFECTIVE TRIBUTARY AREAS NOT LISTED
3. POSITIVE VALUES SIGNIFY PRESSURES ACTING TOWARD THE NOTED SURFACE AND NEGATIVE VALUES SIGNIFY PRESSURES ACTING AWAY FOR THE NOTED SURFACE

E. WIDTH OF END ZONE	5.5 FT

5. EARTHQUAKE DESIGN DATA

A. SEISMIC IMPORTANCE FACTOR, Ie	1.0
B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss	27.3%
C. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1	7.9%
D. SITE CLASS	D
E. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sds	0.288
F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sd1	0.126
G. SEISMIC DESIGN CATEGORY	B
H. STRUCTURAL SYSTEM (CONTROLLING LOAD)	--
1.) VERTICAL ELEMENT TYPE	BUILDING FRAME SYSTEM
2.) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE	STEEL ORDINARY CONCENTRICALLY BRACED FRAMES
3.) RESPONSE MODIFICATION FACTOR, R	3.25
4.) SEISMIC RESPONSE COEFFICIENT, Cs	0.089
5.) DESIGN BASE SHEAR, 1.0E	0.089 W
J. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSFER EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGN AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE CONTRACT DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT AND THE ENGINEER-OF-RECORD.
5. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
6. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (A.W.S) SPECIFICATIONS.
7. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND THE ENGINEER-OF-RECORD. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
9. ASSUME EQUAL SPACING IF NOT INDICATED IN CONTRACT DOCUMENTS.
10. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.
11. REFERENCE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITION FRAMING. CONNECTION OF NON-LOAD BEARING PARTITION FRAMING TO THE PRIMARY STRUCTURE SHALL ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF THE FLOOR AND ROOF FRAMING.
12. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.

GENERAL NOTES

FOUNDATIONS

1. FOUNDATION DESIGNS, SUBGRADE PREPARATION NOTES, AND STRUCTURAL EARTH MOVING SPECIFICATION ARE BASED ON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT NUMBER 6010697, BY: EST, INC. DATED: DECEMBER 31, 2020.
2. FOOTING DESIGNS ARE BASED ON A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. FOOTINGS SHALL BEAR IN NATIVE SOILS AS NOTED IN THE GEOTECHNICAL REPORT.
3. CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE STRUCTURAL EARTH MOVING SPECIFICATION.
4. A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND ENGINEER-OF-RECORD OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.
5. USE ONLY STRUCTURAL FILL MATERIAL AS NOTED IN THE STRUCTURAL EARTH MOVING SPECIFICATION FOR FILL BELOW BUILDING AND FIVE FEET BEYOND THE EDGES OF THE BUILDING.
6. EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS 24 INCHES BELOW ADJACENT FINISHED GRADE. THICKENED SLAB EDGE FOR STOOPS, CANOPIES, ETC. SHALL EXTEND 16 INCHES BELOW GRADE UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
7. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
8. FOOTINGS SHALL BEAR ON UNDISTURBED OR PROPERLY PLACED SOIL, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
9. AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

A. FOOTINGS	3000 PSI
B. FOUNDATION WALLS AND PEDESTALS	4000 PSI
C. INTERIOR SLABS-ON-GRADE	4000 PSI
D. SLABS ON COMPOSITE DECK [SUSPENDED SLABS]	4000 PSI
E. EXTERIOR STRUCTURAL CONCRETE	4000 PSI

REFERENCE SPECIFICATIONS FOR MAXIMUM WATER/CEMENT RATIOS, MINIMUM CEMENT CONTENTS AND OTHER MIX DESIGN REQUIREMENTS. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.

2. EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL BE AIR-ENTRAINED. REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR AIR CONTENT.
3. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.
4. REINFORCING STEEL SHALL MEET THE FOLLOWING:

	ASTM SPECIFICATION
A. DEFORMED BARS	A615, GRADE 60
B. WELDABLE DEFORMED BARS	A706, GRADE 60
C. WELDED WIRE REINFORCEMENT	A1064
D. STEEL FIBERS	A820

5. PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT PER ACI 318, UNLESS NOTED OTHERWISE.
6. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE AND ANSI / AWS D1.4 "STRUCTURAL WELDING CODE FOR REINFORCING STEEL" LATEST REVISION. ELECTRODES FOR DEFORMED BAR ANCHORS SHALL BE 90 KSI, LOW HYDROGEN.
7. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
8. "C.J." INDICATES SAW CUT CONTRACTION JOINT OR DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR ACCEPTED SAW CUT METHODS. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER-OF-RECORD.
9. PROVIDE CORNER BARS THAT MATCH AND LAP CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.
10. PROVIDE #3 Z-BAR SPACERS AT 24 INCHES ON CENTER EACH WAY FOR CONCRETE WALLS HAVING REINFORCING STEEL IN BOTH FACES.
11. ANCHOR BOLTS AND EMBED PLATES SHALL BE TIED INTO THE REINFORCING STEEL CAGE AND HELD IN PLACE WITH A RIGID TEMPLATE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

MASONRY

1. CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C90, WITH A MINIMUM UNIT COMPRESSIVE STRENGTH = 2800 PSI. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY ASSEMBLY (f'm) SHALL BE 2000 PSI.
2. MORTAR SHALL BE A PREBLENDED DRY MIX CONFORMING TO ASTM C1714 AND MEETING THE PROPERTY SPECIFICATIONS OF ASTM C270 TYPE "S" MORTAR. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.
3. GROUT SHALL MEET ASTM SPECIFICTION C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. SOLID GROUT HOLLOW MASONRY CELLS AS NOTED ON STRUCTURAL DRAWINGS. USE GROUT METHOD OF CONSTRUCTION CONFORMING TO REQUIREMENTS OF CURRENT MSJC. GROUT SPACE DIMENSIONS AND MAXIMUM POUR HEIGHTS SHALL COMPLY WITH MSJC.

   A. LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 12'-8" OR THE DISTANCE BETWEEN BOND BEAMS, WHICHEVER IS LESS. PROVIDE CLEANOUTS AT THE GROUT LIFTS THAT EXCEED 5'-4" IN HEIGHT.

   B. PROVIDE CLEANOUTS AT THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR OVER 5'-4" IN HEIGHT. PROVIDE CLEANOUTS AT 32 INCHES ON CENTER ALONG THE BOTTOM COURSE OF THE GROUT LIFTS IN FULLY GROUTED MASONRY. USE CLEANOUTS TO REMOVE ALL MORTAR DROPPINGS AND DEBRIS AND ENSURE PROPER PLACEMENT OF REINFORCEMENT.

   C. DO NOT PLACE GROUT UNTIL HEIGHT OF MASONRY TO BE GROUTED HAS ATTAINED ENOUGH STRENGTH TO RESIST GROUT PRESSURE. ALLOW MASONRY TO CURE A MINIMUM OF 4 HOURS PRIOR TO PLACING GROUT FOR LIFTS BETWEEN 5'-4" AND 12'-8. INCREASE CURING TIME TO A MINIMUM OF 8 HOURS IN COLD OR DRY WEATHER CONDITIONS.. THE GROUT SLUMP SHALL BE MAINTAINED BETWEEN 10 AND 11 INCHES FOR GROUT LIFTS BETWEEN 5'-4" AND 12'-8".

   D. GROUTING SHALL BE A CONTINUOUS PROCEDURE FOR EACH LIFT. DO NOT ALLOW HORIZONTAL CONSTRUCTION JOINT TO FORM BY DISCONTINUING GROUTING.

   E. VERTICAL GROUT POUR EXCEEDING 12 INCHES SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4 INCH DIAMETER HEAD.
5. CONTRACTOR SHALL CLEAN THE GROUT SPACES SUCH THAT THEY ARE FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATES AND ANY MATERIAL THAT WOULD PREVENT CONTINUITY OF THE GROUT.
6. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE. JOINT REINFORCEMENT SHALL BE SPACED AT 8 INCHES ON CENTER BELOW FINISHED FLOOR AND IN PARAPETS, AND 16 INCHES ON CENTER ABOVE FINISHED FLOOR.
7. CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND.
8. CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL THE CELLS FULLY GROUTED. CONCRETE MASONRY ABOVE FINISHED FLOOR SHALL BE NORMAL WEIGHT AND IS TO BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE. ALL CELLS WITH REINFORCING OR EMBEDDED ITEMS SHALL BE GROUTED SOLID.
9. REFERENCE WALL SECTIONS AND DETAILS FOR MISCELLANEOUS BOND BEAM LOCATIONS AND EMBEDDED ITEMS. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.
10. REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A615, GRADE 60. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
11. PROVIDE TEMPORARY BRACING FOR WALLS, LINTELS, AND OTHER MASONRY DURING ERECTION. BRACING SHALL BE DESIGNED IN ACCORDANCE WITH THE MASON CONTRACTORS ASSOCIATION OF AMERICA STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION. DESIGN SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. BRACING SHALL REMAIN UNTIL ROOFING AND OTHER STRUCTURAL ELEMENTS ARE COMPLETE AND PROVIDE PERMANENT STABILITY.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (Fy):

	YIELD	ASTM SPECIFICATION
A. W, WT SHAPES:	50 KSI	A992
B. BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C. SQUARE, RECTANGULAR HSS:	46 KSI	A500, GRADE B
D. ROUND HSS:	42 KSI	A500, GRADE B
E. STRUCTURAL STEEL PIPE:	35 KSI	A53, GRADE B
F. ANCHOR RODS:	36 KSI, WELDABLE	F1554
G. ALL-THREAD RODS:	36 KSI	A36
H. HEADED STUD ANCHORS:	65 KSI TENSILE STRESS	A108, GRADES 1010-1020

GENERAL NOTES

2. BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4-INCH DIAMETER (MIN.) ASTM F3125, GRADE A325-N HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
3. ALL BOLTED JOINTS SHALL BE SNUG TIGHT UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS . FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF INSTALLATION SHALL BE TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F3125, GRADE F1852), OR DIRECT TENSION INDICATORS (ASTM F959).
4. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.
5. WELDS NOT SPECIFICALLY SIZED ON THE STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE PER THE LATEST AWS D1.1.
6. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. USE 2 1/2 INCH NON-SHRINK GROUT WHEN COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR LARGER. NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
7. LEDGER ANGLES AND LINTELS IN EXTERIOR WALL SYSTEMS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
8. ALL CONNECTIONS NOT FULLY DETAILED IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONNECTION DESIGN ENGINEER SHALL BE EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL SHOWN IN THE CONTRACT DOCUMENTS. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, MISCELLANEOUS STEEL ITEMS SHOWN ON THE STRUCTURAL, ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS.
10. AT ALL GALVANIZED OR PAINTED STEEL MEMBERS WITH FIELD WELDED CONNECTIONS, REMOVE GALVANIZING, PAINT OR PRIMER PRIOR TO FIELD WELDING AS REQUIRED. AFTER WELDING IS COMPLETE AND INSPECTOR APPROVED, PREPARE AND REPAINT THE FRAMING SURFACES.

STEEL JOISTS

A. JOISTS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY (AS SPECIFIED IN THE SJI STANDARD LOAD TABLES) IN ADDITION TO THE CONCENTRATED LOADS SHOWN IN THE CONTRACT DOCUMENTS.

B. JOISTS THAT SUPPORT CONCENTRATED LOADS SHALL HAVE THEIR CHORDS DESIGNED TO WITHSTAND ALL BENDING STRESSES, OR THE LOADS SHALL OCCUR WITHIN 3 INCHES OF JOIST PANEL POINTS, OR THE JOIST SHALL BE REINFORCED PER THE "JOIST REINFORCING DETAIL" SHOWN HEREIN. CONCENTRATED LOADS SHALL BE CENTERED ON JOISTS AND NOT ATTACHED TO THE EDGE OF CHORD ANGLES.

C. JOISTS SHALL RESIST THE UPLIFT PRESSURE AS INDICATED IN THE DESIGN PARAMETERS FOR "DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING". AN ALLOWABLE STRESS INCREASE IS NOT PERMITTED.

D. FOR ALL MEMBERS THAT REQUIRE SPECIFIC ORIENTATION, PROVIDE TAG AT ONE END AND DEFINE LOCATION OF TAGGED END ON ERECTION DRAWINGS.

E. JOIST MANUFACTURER SHALL DETERMINE THE SEAT DEPTH AND WIDTH OF BEARING AND COORDINATE THE SAME WITH THE STEEL FABRICATOR. THE FOLLOWING SEAT DEPTHS ARE ASSUMED IN THE CONTRACT DOCUMENTS: 2 1/2 INCH FOR K-SERIES JOISTS UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

2 JOISTS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SJI SPECIFICATIONS, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. BOLT JOIST TO SUPPORTING MEMBER IN CONFORMANCE WITH THE OCCUPATIONAL SAFETY AND HAZARD ADMINISTRATION (OSHA) AND SJI REQUIREMENTS. BOLTS SHALL REMAIN AFTER INSTALLATION.

3. JOIST BRIDGING AND ERECTION STABILITY SHALL BE PROVIDED IN ACCORDANCE WITH OSHA AND THE SPECIFICATIONS OF SJI.
4. STEEL JOIST MANUFACTURER SHALL COORDINATE MECHANICAL DUCT LOCATIONS TO AVOID CONFLICT WITH BRIDGING.
5. JOIST MANUFACTURER SHALL DESIGN THE COMPRESSION CHORD OF ALL JOISTS SUPPORTING ROOF TOP UNITS, SKY LIGHTS, AND OTHER STRUCTURES FOR AN UNBRACED LENGTH APPLICABLE TO THE CONDITIONS AT THE PROJECT WHERE THE UNBRACED LENGTH IS GREATER THAN THE SJI MAXIMUM. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR JOIST SUPPORTED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
6. DESIGN JOISTS FOR INTERNAL ROOF DRAIN LINE LOCATIONS, IF REQUIRED. ADD DRAIN LINE WEIGHT OF 50 PLF FOR 8 INCH DIAMETER AND SMALLER, ADD 75 PLF FOR 10 INCH DIAMETER, ADD 102 PLF FOR 12 INCH DIAMETER, ADD 122 PLF FOR 14 INCH DIAMETER, ADD 200 PLF FOR 18 INCH DIAMETER. REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION.
7. JOIST DESIGNS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE JOIST DESIGN ENGINEER SHALL BE EMPLOYED OR RETAINED BY THE JOIST MANUFACTURER.
8. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT AND THE ENGINEER-OF-RECORD PRIOR TO JOIST FABRICATION.
9. JOIST TOP CHORD EXTENSIONS SHALL BE DESIGNED FOR THE LOADS SHOWN ON THE STRUCTURAL DOCUMENTS. THE ASSUMED DEPTH OF THE EXTENSIONS ARE NOTED ON THE STRUCTURAL DRAWINGS. THE JOIST MANUFACTURER SHALL NOTIFY THE STRUCTURAL ENGINEER IF THE ASSUMED DEPTH IS INADEQUATE FOR THE LOADING SHOWN.

STEEL DECK

1. STEEL DECK AND ITS ANCHORAGE SHALL BE MANUFACTURED AND ERECTED PER THE STEEL DECK INSTITUTE (SDI) MANUALS FOR "ROOF DECK DESIGN", "FLOOR DECK DESIGN" AND "DIAPHRAGM DESIGN", CURRENT EDITION.
2. STEEL ROOF DECK

   A. STEEL ROOF DECK SHALL BE GALVANIZED TYPE "B" UNLESS NOTED OTHERWISE. DEPTH SHALL BE AS SHOWN IN THE CONTRACT DOCUMENTS.

   B. ROOF DECK IS REQUIRED TO ACT AS A DIAPHRAGM. CONNECTIONS SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS. REFER TO THE ROOF DIAPHRAGM CONNECTION DIAGRAM FOR ATTACHMENT.

   C. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. DECK SPLICES ARE TO BE OVER SUPPORTS.

   D. NO HANGING LOADS SHALL BE ATTACHED TO ROOF DECK.
3. COMPOSITE STEEL FLOOR DECK

   A. FLOOR DECK SHALL BE GALVANIZED COMPOSITE STEEL FLOOR DECK. DEPTH SHALL BE AS SHOWN IN THE CONTRACT DOCUMENTS.

   B. CONNECTIONS SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS AND AS FOLLOWS:

   1) PERPENDICULAR ATTACHMENT TO SUPPORTS - (4) - 5/8 INCH DIAMETER PUDDLE WELDS PER SHEET (1) WELD AT EACH LOW RIB

   2) PARALLEL ATTACHMENT TO SUPPORTS - 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER.

   3) SIDELAPS - BUTTON PUNCHED AT 12 INCHES ON CENTER UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

   4) DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

COLD FORMED METAL FRAMING

1. COLD FORMED METAL FRAMING AND THE CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
2. ALL COLD FORMED METAL FRAMING SHALL HAVE A MINIMUM THICKNESS OF 33 MILS (20 GA) AND SHALL BE SPACED AT A MAXIMUM OF 16 INCHES ON CENTER UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS AND SHALL MEET THE MINIMUM STRUCTURAL PROPERTIES FROM THE AMERICAN IRON AND STEEL INSTITUTE - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING LATEST EDITION. MINIMUM FLANGE WIDTH OF FRAMING MEMBERS SHALL BE 1 5/8 INCH AND THE LIP LENGTH OF THE C-SHAPE PORTION SHALL BE A MINIMUM OF 1/2 INCH.
3. WALL STUDS AS BACKING TO MASONRY VENEER SHALL SHALL HAVE A MINIMUM THICKNESS OF 43 MILS (18 GA).
4. COLD FORM METAL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE:

	ASTM SPECIFICATION
A. 54 MILS (16 GA) AND HEAVIER	A1003, GRADE 50 TYPE H (ST50H)
B. 43 MILS (18 GA) AND LIGHTER	A1003, GRADE 33 TYPE H (ST33H)
C. ACCESSORIES, TRACK AND OTHER MEMBERS	A1003, GRADE 33 TYPE H (ST33H), MINIMUM

5. DO NOT WELD 33 MILS (20 GA) AND LIGHTER FRAMING, UNLESS SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS.
6. COLD FORMED METAL FRAMING AND BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.
7. HORIZONTAL BRACING FOR WALL STUDS SHALL BE PLACED AT 48 INCHES ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 48 INCHES ON CENTER. HORIZONTAL BRIDGING FOR JOISTS SHALL BE PLACED AT 8'-0" ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 8'-0" ON CENTER. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
8. ALL AXIALLY LOADED WALL STUDS SHALL HAVE FULL FLANGE BEARING AGAINST UPPER AND LOWER TRACK WEB PRIOR TO ATTACHMENT TO TRACK. SPLICES IN AXIALLY LOADED WALL STUDS ARE NOT ALLOWED.
9. TRACK SHALL BE 54 MILS (16 GA) MINIMUM FOR WALL STUDS 54 MILS (16 GA) OR LIGHTER. TRACK SHALL MATCH WALL STUD THICKNESS FOR WALL STUDS 68 MILS (14 GA) AND HEAVIER. TRACKS SHALL BE ANCHORED AS FOLLOWS:

GENERAL NOTES

TO STEEL - HILTI X-U (ESR-2269), 0.157 INCH DIAMETER KNURLED SHANK FASTENERS AT [16] INCHES ON CENTER OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

TO CONCRETE - HILTI X-U (ESR-2269), 0.157 INCH DIAMETER KNURLED SHANK FASTENERS AT [16] INCHES ON CENTER WITH 1 1/2 INCH EMBEDMENT OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

10. CONNECTIONS SHALL CONSIST OF ANY OF THE FOLLOWING AS NOTED IN THE CONTRACT DOCUMENTS:

    A. SELF-DRILLING SCREWS OF TYPE AND SIZE AS SHOWN IN THE CONTRACT DOCUMENTS.

    B. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF AWS D1.3, SHEET METAL.
11. REFER TO 4/S402 FOR REQUIREMENTS FOR PREFABRICATED COLD FORMED METAL TRUSSES.

POST INSTALLED ANCHORS

1. ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMPLETION OF WORK.
2. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED ICC ES OR ESR REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING CODE.
4. ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON-SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.
5. THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED INTO THE HOLE PER MANUFACTURER'S SPECIFICATIONS.
6. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.
7. CONTRACTOR SHALL FOLLOW THE LATEST VERSION OF MANUFACTURER'S SPECIFICATION DURING INSTALLATION OF ANCHORS.
8. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

DEFERRED STRUCTURAL SUBMITTALS (IBC 2015 SECTION 107.3.4.1)

1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

   A. STRUCTURAL STEEL CONNECTIONS OF FRAMING AND BRACING ELEMENTS.

   B. STEEL JOISTS.

   C. COLD FORMED METAL WALL FRAMING AND LIGHT GAGE TRUSSES AND ATTACHMENTS TO STRUCTURE.
2. DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER-OF-RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED FOR DESIGN LOADS AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN CRITERIA OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.O.R.	ARCHITECT OF RECORD
A.R.	ANCHOR RODS
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ARCH.	ARCHITECTURAL
B.L.	BLOCK LINTEL
B.O.D.	BOTTOM OF DECK
B.O.S.	BOTTOM OF STEEL
B.P.	BASE PLATE
BAL.	BALANCE
BLDG.	BUILDING
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CFMF	COLD FORMED METAL FRAMING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
D.B.E.	DECK BEARING ELEVATION
DIA.	DIAMETER
DTL.	DETAIL
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.R.	ENGINEER OF RECORD
E.O.S.	EDGE OF SLAB
E.W.	EACH WAY
EA.	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
F.F.E.	FINISHED FLOOR ELEVATION
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FDN.	FOUNDATION
FT.	FOOT/FEET
FTG.	FOOTING
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GA.	GAGE
GALV.	GALVANIZED
H.S.A.	HEADED STUD ANCHOR
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
IN.	INCH/INCHES
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
J.C.E.	JOIST CHORD EXTENSION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH

ABBREVIATIONS

LBS.	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSL	LONG SLOT
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OPPOSITE FACE
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
P.A.F.	POWER/POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB.	PLUMBING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.O.	ROUGH OPENING
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
RTU	ROOF TOP UNIT
S.D.S.	SELF-DRILLING SCREWS
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SIM.	SIMILAR
SP.	SPACE/SPACING
SPECS.	SPECIFICATIONS
SSL	SHORT SLOT
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
W.S.	WATERSTOP
W.W.R.	WELDED WIRE REINFORCEMENT
WT.	WEIGHT

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GENERAL
NOTES

SHEET NUMBER
S001

SPECIAL INSPECTION REQUIREMENTS (2015)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2015 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.

IBC 2015 REQUIRED SPECIAL INSPECTIONS

			CONTINUOUS	PERIODIC
		STEEL CONSTRUCTION - STRUCTURAL STEEL (IBC SECTION 1705.2.1)		
1.		SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.		
		STEEL CONSTRUCTION - COLD FORMED STEEL DECK (IBC SECTION 1705.2.2)		
1.		SPECIAL INSPECTION AND QUALIFICATIONS OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI. QA/QC.		
		STEEL CONSTRUCTION - OPEN-WEB STEEL JOISTS (IBC TABLE 1705.2.3)		
1.		INSTALLATION OF OPEN-WEB STEEL JOISTS		
	A.	END CONNECTIONS - WELDING OR BOLTED	---	X
	B.	BRIDGING - HORIZONTAL OR DIAGONAL		
		1. STANDARD BRIDGING	---	X
		2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	---	X
		STEEL CONSTRUCTION - COLD-FORMED STEEL TRUSSES (IBC SECTION 1705.2.4)		
1.		VERIFICATION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE AT COLD-FORMED STEEL TRUSSES.	---	X
		CONCRETE CONSTRUCTION (IBC TABLE 1705.3)		
1.		INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X
2.		INSPECTION OF REINFORCING BAR WELDING IN ACCORDANCE WITH TABLE 1705.3 ITEM 2.	X	---
3.		INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	X	---
5.		VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.		INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---
8.		VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
9.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		SOILS (IBC TABLE 1705.6)		
1.		VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2.		VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3.		PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4.		VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5.		PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X
	*	CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
	*	PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

AISC 360-10 SPECIAL INSPECTION REQUIREMENTS

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS. NONDESTRUCTIVE TESTIING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE.
3. NONDESTRUCTIVE TESTIING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE (QA).
4. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT.
5. QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE.
6. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
7. FOR WORK PERFORMED BY APPROVED FABRICATORS AND ERECTORS:

   A. QA INSPECTIONS, EXCEPT NDT, MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA.

   B. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.

   C. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

   D. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

AISC 360-10, CHAPTER N SPECIAL INSPECTION REQUIREMENTS

			FREQUENCY OF INSPECTION PERFORM	OBSERVE
N5.4 - INSPECTION OF WELDING				
		AISC 360-10, TABLE N5.4-1 - INSPECTION TASKS PRIOR TO WELDING		
1.		WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X	---
2.		MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	---
3.		MATERIAL IDENTIFICATION (TYPE/GRADE)	---	X
4.		WELDER IDENTIFICATION SYSTEM (a)	---	X
5.		FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		
	A.	JOINT PREPARATION	---	X
	B.	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	---	X
	C.	CLEANLINESS (CONDITION OF STEEL SURFACES)	---	X
	D.	TACKING (TACK WELD QUALITY AND LOCATION)	---	X
	E.	BACKING TYPE AND FIT (IF APPLICABLE)	---	X
6.		CONFIGURATION AND FINISH OF ACCESS HOLES	---	X
7.		FIT-UP OF FILLET WELDS		
	A.	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	---	X
	B.	CLEANLINESS (CONDITION OF STEEL SURFACES)	---	X
	C.	TACKING (TACK WELD QUALITY AND LOCATION)	---	X
		AISC 360-10, TABLE N5.4-2 - INSPECTIONS DURING WELDING		
1.		USE OF QUALIFIED WELDERS	---	X
2.		CONTROL AND HANDLING OF WELDING CONSUMABLES		
	A.	PACKAGING	---	X
	B.	EXPOSURE CONTROL	---	X
3.		NO WELDING OVER CRACKED TACK WELDS	---	X
4.		ENVIRONMENTAL CONDITIONS		
	A.	WIND SPEED WITHIN LIMITS	---	X
	B.	PRECIPITATION AND TEMPERATURE	---	X
5.		WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED		
	A.	SETTINGS ON WELDING EQUIPMENT	---	X
	B.	TRAVEL SPEED	---	X
	C.	SELECTED WELDING MATERIALS	---	X
	D.	SHIELDING GAS TYPE / FLOW RATE	---	X
	E.	PREHEAT APPLIED	---	X
	F.	INTERPASS TEMPERTURE MAINTAINED (MIN./MAX.)	---	X
	G.	PROPER POSITION (F, V, H, OH)	---	X
6.		WELDING TECHNIQUES		
	A.	INTERPASS AND FINAL CLEANING	---	X
	B.	EACH PASS WITHIN PROFILE LIMITATIONS	---	X
	C.	EACH PASS MEETS QUALITY REQUIREMENTS	---	X
		AISC 360-10, TABLE N5.4-3 - INSPECTIONS AFTER WELDING		
1.		WELDS CLEANED	---	X
2.		SIZE, LENGTH AND LOCATION OF WELDS	X	---
3.		WELDS MEET VISUAL ACCEPTANCE CRITERIA		
	A.	CRACK PROHIBITION	X	---
	B.	WELD/BASE-METAL FUSION	X	---
	C.	CRATER CROSS SECTION	X	---
	D.	WELD PROFILES	X	---
	E.	WELD SIZE	X	---
	F.	UNDERCUT	X	---
	G.	POROSITY	X	---
4.		ARC STRIKES	X	---
5.		k-AREA (b)	X	---
6.		BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	---
7.		REPAIR ACTIVITIES	X	---
8.		DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	---
9.		ULTRASONIC TESTING (UT) ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 INCH THICK OR GREATER (b) (required in Risk Catgory II)	---	X
10.		THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING (MT) OR PENETRANT TESTING (PT), WHEN FLANGE THICKNESS EXCEEDS 2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 INCHES FOR BUILT-UP SHAPES (b)	X	---
	(a)	THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE.		
	(b)	WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.		
		** PERFORM - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.		
		** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		
N5.6 - INSPECTION OF HIGH-STRENGTH BOLTS				
		AISC 360-10, TABLE N5.6-1 - INSPECTION TASKS PRIOR TO BOLTING		
1.		MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X (QAI)	X (QCI)
2.		FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	---	X
3.		PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH)	---	X
4.		PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL	---	X
5.		CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	---	X
6.		PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED (a)	X	X
7.		PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	---	X
		AISC 360-10, TABLE N5.6-2 - INSPECTIONS DURING BOLTING		
1.		FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	---	X
2.		JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	---	X
3.		FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING (b)	---	X
4.		FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES (b)	---	X
		AISC 360-10, TABLE N5.6-3 - INSPECTIONS AFTER BOLTING		
1.		DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	---
	(a)	NOT APPLICABLE FOR SNUG TIGHT JOINTS.		
	(b)	FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS.		
		** PERFORM - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.		
		** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		
N5.7 - OTHER INSPECTION TASKS				
1.		INSPECT THE STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION	X	---
2.		INSPECT THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE	X	---
		** PERFORM - PERFORM THESE TASKS FOR EACH CONNECTION.		
N6 - INSPECTION OF COMPOSITE CONSTRUCTION				
		INSPECTIONS OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT (AISC 360-10, TABLE N6.1)		
1.		PLACEMENT AND INSTALLATION OF STEEL DECK	X	---
2.		PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	---
3.		DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X	---
		** PERFORM - PERFORM THESE TASKS FOR EACH STEEL ELEMENT,		

SDI QA/QC - 2011 SPECIAL INSPECTION REQUIREMENTS

1. QUALITY CONTROL (QC) AS SPECIFIED IN THE STANDARD SHALL BE PROVIDED BY THE INSTALLER.
2. QUALITY ASSURANCE (QA) AS SPECIFIED IN THE STANDARD SHALL BE PROVIDED BY OTHERS.
3. THE QUALITY ASSURANCE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE AHJ AND SATISFY THE QUALIFICATIONS NOTED IN SECTION 3.2 OF THE STANDARD.

SDI QA/QC - 2011 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK

			FREQUENCY OF INSPECTION PERFORM	OBSERVE
		TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT		
A.		VERIFY COMPLIANCE OF MATERIALS(DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	X	---
B.		DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X	---
		TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT		
A.		VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	X	---
B.		VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	X	---
C.		DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X	---
		TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING		
A.		WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	---	X
B.		MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	---	X
C.		MATERIAL IDENTIFICATION (TYPE/GRADE)	---	X
D.		CHECK WELDING EQUIPMENT	---	X
		TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING		
A.		USE OF QUALIFIED WELDERS	---	X
B.		CONTROL AND HANDLING OF WELDING CONSUMABLES	---	X
C.		ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE	---	X
D.		WPS FOLLOWED	---	X
		TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING		
A.		VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	X	---
B.		WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	---
C.		VERIFY REPAIR ACTIVITIES	X	---
D.		DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X	---
		TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING		
A.		MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	---	X
B.		PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	---	X
C.		PROPER STORAGE FOR MECHANICAL FASTENERS	---	X
		TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING		
A.		FASTENERS ARE POSITIONED AS REQUIRED	---	X
B.		FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	---	X
		TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING		
A.		CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	X	---
B.		CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	X	---
C.		CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	X	---
D.		VERIFY REPAIR ACTIVITIES	X	---
E.		DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X	---
		** PERFORM - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.		
		** OBSERVE - INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.		

ACI 530/ACI 530.1 SPECIAL INSPECTION REQUIREMENTS

			CONTINUOUS	PERIODIC
		MASONRY CONSTRUCTION - LEVEL A QUALITY ASSURANCE (ACI 530 TABLE 3.1.1)		
1.		PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.		
		MASONRY CONSTRUCTION - LEVEL B QUALITY ASSURANCE (ACI 530 TABLE 3.1.2 - RISK CATEGORY I, II OR III)		
1.		VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5B.1.b.3 FOR SELF-CONSOLIDATING GROUT.		
2.		VERIFICATION OF f'm AND f'aac IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.		
3.		VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	---	X
4.		AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
	A.	PROPORTIONS OF SITE-PREPARED MORTAR.	---	X
	B.	CONSTRUCTION OF MORTAR JOINTS.	---	X
	C.	GRADE AND SIZE OF ANCHORAGES	---	X
	D.	LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES.	---	X
5.		PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
	A.	GROUT SPACE	---	X
	B.	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGE.	---	X
	C.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES.	---	X
	D.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	---	X
	E.	CONSTRUCTION OF MORTAR JOINTS.	---	X
6.		VERIFY DURING CONSTRUCTION:		
	A.	SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X
	B.	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	---	X
	C.	WELDING OF REINFORCEMENT.	X	---
	D.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG. F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG. F.)	---	X
7.		OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	---	X
		SPECIAL INSPECTION REQUIREMENTS		
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

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SHEET TITLE
STRUCTURAL SPECIAL INSPECTIONS

SHEET NUMBER
S010

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FOUNDATION PLAN LEGEND

NOTE: ITEMS IN LEGEND NOT OCCUR ON ALL PLANS

- F# — SPOT FOOTING, RE: 7/S301
- C# — STEEL COLUMN, RE: 8/S301
- C.J. — SLAB CONTROL JOINT, RE: 3/S301
- WF# — CONTINUOUS FOOTING, RE: 7/S301
- M.C.J., RE: 1/S302
- INDICATES START OF SLAB SLOPE LINE SLOPE SLAB 1/8"/FT. TOWARDS TRENCH DRAIN

4" SLAB-ON-GRADE REINFORCED WITH #3 AT 16" O.C. E.W. PLACED AT MID-SLAB A 15 MIL. VAPOR BARRIER OVER 4" CLEAN CRUSHED STONE GRANULAR MAT. RE: GEOTECHNICAL REPORT FOR SLAB SUB BASE PREPARATION
F.F.E. = (VARIES AT TRENCH DRAINS)

SLAB C.J. SPACING NOT TO EXCEED 12'-0" MAX., TYP.

6" SLAB-ON-GRADE REINFORCED WITH #4 AT 16" O.C. E.W. PLACED AT MID-SLAB A 15 MIL. VAPOR BARRIER OVER 4" CLEAN CRUSHED STONE GRANULAR MAT. RE: GEOTECHNICAL REPORT FOR SLAB SUB BASE PREPARATION
F.F.E. = VARIES, SLOPE TO TRENCH DRAIN

FOUNDATION PLAN NOTES

1. RE: ARCH FOR INTERIOR WALL LAYOUT AND INTERIOR OPENINGS.
2. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF SLAB PENETRATIONS.
3. THICKEN SLAB AT FLOOR BOXES AND CONDUIT TO MAINTAIN A MINIMUM 4" SLAB THICKNESS. RE: ELECTRICAL FOR LOCATION OF PADS.
4. RE: COLD-FORMED METAL FRAMING NOTES ON SHEET S001 FOR ADDITIONAL INFO.
5. RE: 1/S301 FOR REINFORCING LAP SCHEDULE.
6. PROVIDE (2)-#4x4'-0" BARS MID SLAB AT ALL RE-ENTRANT CORNERS AS INDICATED ON PLAN.
7. PROVIDE CORNER BARS IN ALL CONT. FOOTINGS PER DETAIL 2/S301.
8. RE: 6/S301 FOR TYPICAL SLAB DETAIL AT FLOOR DRAINS, RE: MEP FOR LOCATIONS.
9. RE: 9/S303 FOR TYPICAL SLAB STEP AT SLAB DEPRESSIONS, RE: ARCH. AND MEP FOR LOCATION.
10. RE: 10/S303 FOR TYPICAL EQUIPMENT PAD DETAIL, RE: MEP FOR REQUIRED LOCATIONS.
11. RE: 5/S301 FOR RUNNING PIPES BELOW CONTINUOUS FOOTING DETAIL, NOTIFY E.O.R. IF PIPE ELEVATION DOES NOT ALLOW FOR DETAIL TO BE CONSTRUCTED AS SHOWN.
12. xxxxx
13. RE: 4/S301 FOR TYPICAL FOOTING STEP DETAIL (USE AS REQD. FOR STEPPING AT MECH. PENETRATIONS).
14. PROVIDE M.C.J. PER 1/S302 AT CORNERS OF STORM SHELTER WALLS.
15. PROVIDE 3/8" MIN. RECESS IN SLAB TO SEAT ROLL SEAL DOOR BASE.
16. EXTEND 2'-0" WIDE SECTION OF FTG. TO RECEIVE CURB SECTION, RE: 11/S301.

1 FOUNDATION PLAN AND SLAB PLAN

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

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FOUNDATION AND SLAB PLAN

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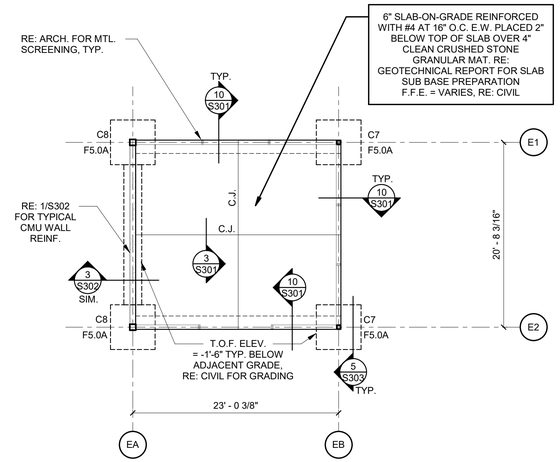
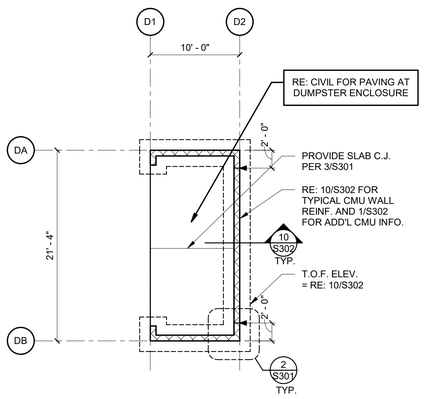
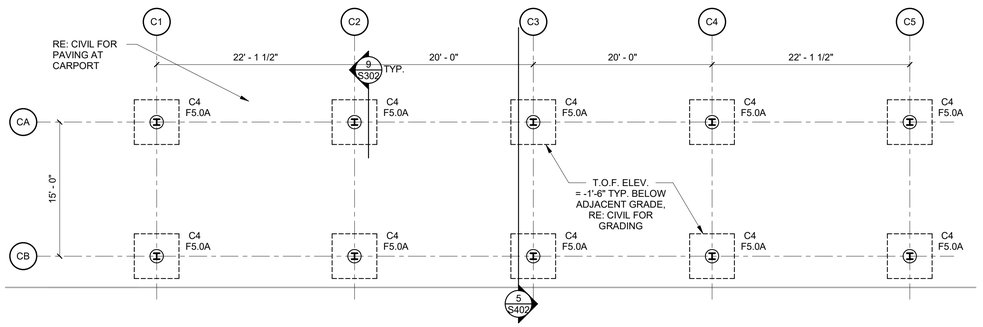


3 FOUNDATION PLAN AND SLAB PLAN - INCINERATOR
SCALE: 1/8" = 1'-0"



2 FOUNDATION PLAN AND SLAB PLAN - DUMPSTER
SCALE: 1/8" = 1'-0"



1 FOUNDATION PLAN - CARPORT
SCALE: 1/8" = 1'-0"

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MISC FOUNDATION PLANS

SHEET NUMBER
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ROOF FRAMING PLAN LEGEND

- INDICATES BOTTOM FLANGE BRACE, RE: 1/S401
- INDICATES SERVICE LEVEL CONCENTRATED LOAD AT STEEL JOIST TOP CHORD, U.N.O. LOAD MAY OCCUR UP TO 1'-0" AWAY FROM LOCATION SHOWN. RE: RTU LOAD SCHEDULE
- INDICATES CMU CONTROL JOINT. REFERENCE CMU WALL REINFORCING DIAGRAM AND FOUNDATION PLAN FOR DIMENSIONS
- W=X.XK INDICATES AXIAL WIND/SEISMIC LOAD ON JOIST TOP CHORD

ROOF FRAMING PLAN NOTES

1. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS.
2. REFERENCE FOUNADTION PLAN AND 8/S301 FOR COLUMN SCHEDULE.
3. REFERENCE 3/S401 FOR JOIST REINFORCING DETAIL AT ALL LOCATIONS WHERE CONCENTRATED LOADS DO NOT OCCUR AT JOIST PANEL POINTS.
4. VERIFY AND COORDINATE ROOF TOP EQUIPMENT WITH MEP DRAWINGS FOR EXACT SIZE AND LOCATION. CONTACT ARCHITECT AND E.O.R. IF DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND MEP DRAWINGS AND INFORMATION SHOWN ON STRUCTURAL PLANS.
5. REFERENCE 5/S401 FOR ROOF DRAIN ROOF HATCH AND EXHAUST FAN SUPPORT FRAMING. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR ROOF DRAIN LOCATIONS. REFER TO 7/S401 FOR OPENING BETWEEN 10" TO 6".
6. STEEL FABRICATOR SHALL DESIGN BEAM CONNECTIONS TO COLUMNS OR BEAMS FOR THE TOTAL LOADS SHOWN ON DETAIL 8/S401. LOADS INDICATED ARE FACTORED REACTIONS FOR USE WITH ASD DESIGN METHOD. IF NO LOAD IS SHOWN ON THE PLANS, DESIGN FOR A MINIMUM VERTICAL REACTION OF 15 KIPS.
7. REFERENCE SHEET S302 FOR MASONRY WALL SCHEDULES.
8. "B.L." DENOTES CMU BLOCK LINTEL. REFERENCE x/Sxx FOR LINTEL AND JAMB SIZE AND REINFORCEMENT.
9. LOW CANOPY ROOF STUDS ARE 600S162-54 AT 24" O.C., RE: XXXX. REMAINDER NOT SHOWN FOR CLARITY. B.O. STEEL = 109'-2".
10. REFER TO ARCH AND FDN PLAN FOR KENNEL DOOR OPENINGS BELOW UPPER WINDOW OPENINGS. ALIGN OPENING EDGES TO ALLOW WINDOW JAMBS TO EXTEND FULL HEIGHT, RE: 2/S302 FOR ADD'L INFO.
11. REFER TO MECH AND 1/S402 FOR SUSPENDED PIPE LAYOUT AND CONNECTION/SUSPENSION DETAILS.
12. RE: 2/S401 FOR TYPICAL ROOF DECK DIAPHRAGM CONNECTION DIAGRAM AND STEEL DECK NOTES ON S001 FOR ADDITIONAL INFORMATION.
13. IN HATCH AREA, REFER TO DETAILS 9 AND 10/S403 FOR ELEVATED ROOF AND LIGHT GAGE FRAMING.
14. COORDINATE JOIST BRIDGING DETAILING WITH JOIST MFR. AND DETAIL 2/S402.

1 ROOF FRAMING PLAN

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

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SHEET TITLE
ROOF FRAMING PLAN

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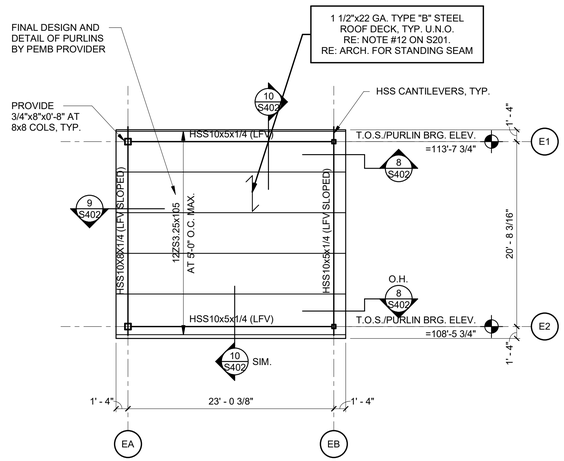
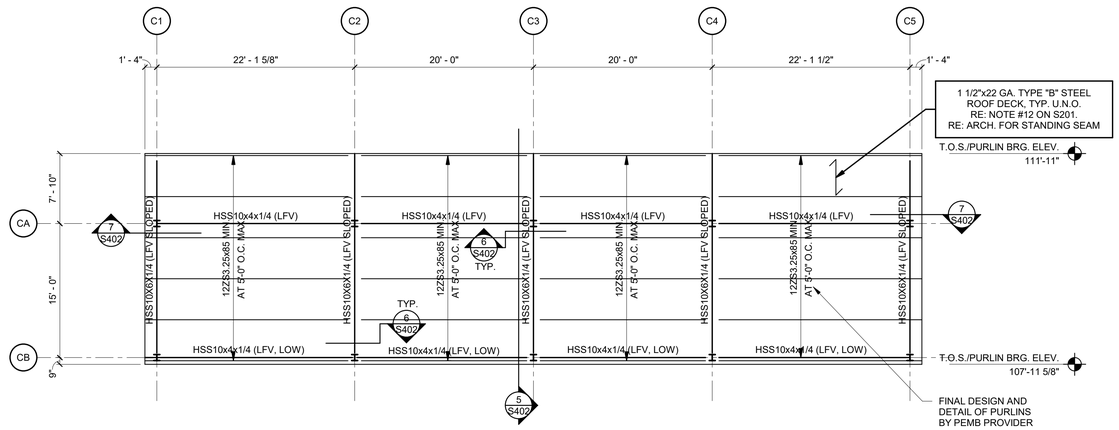


2 ROOF FRAMING PLAN - INCINERATOR

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



1 ROOF FRAMING PLAN - CARPORT

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

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SHEET TITLE
MISC ROOF FRAMING PLANS

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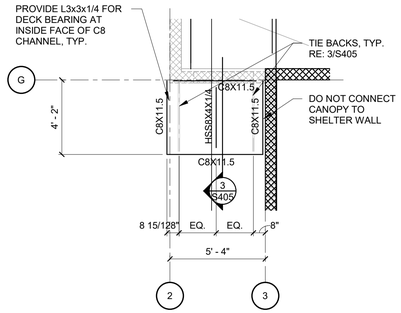
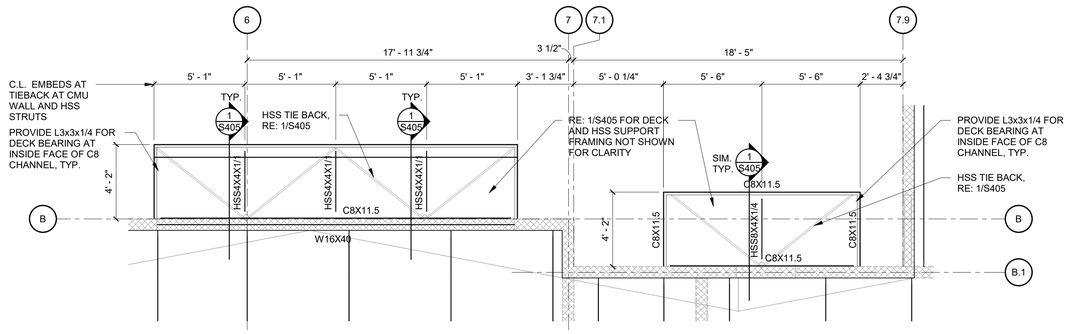
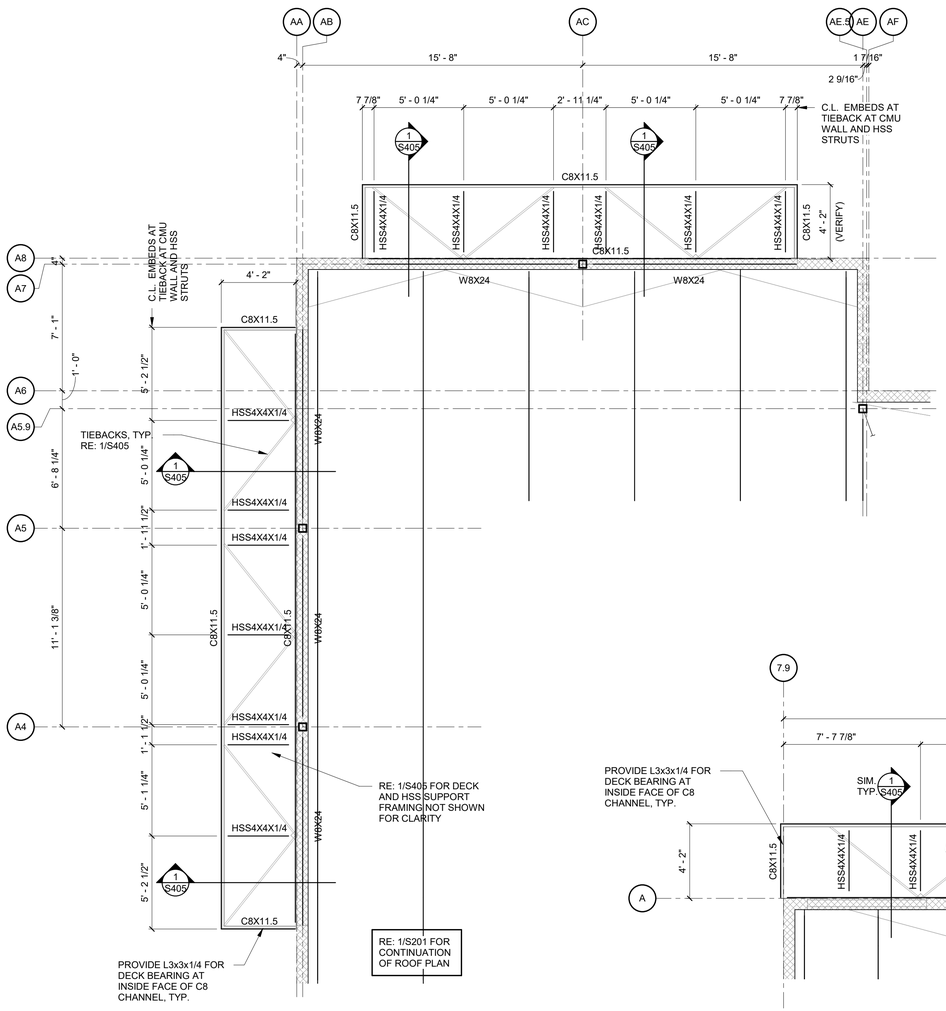


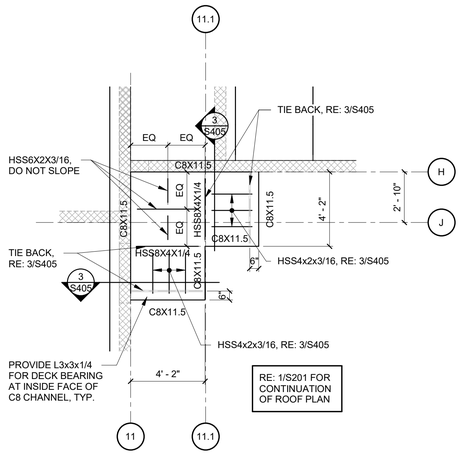
7 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"



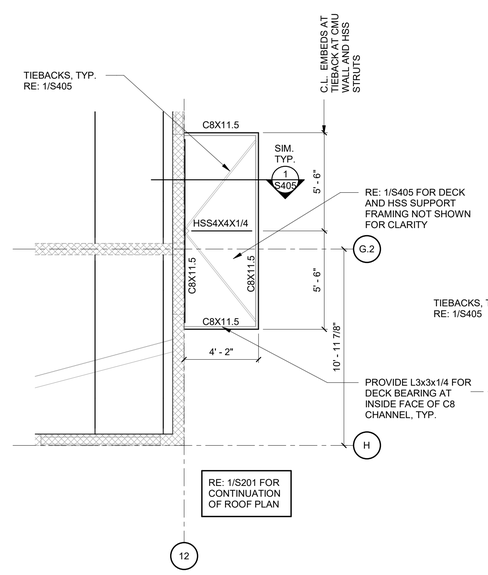
6 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"



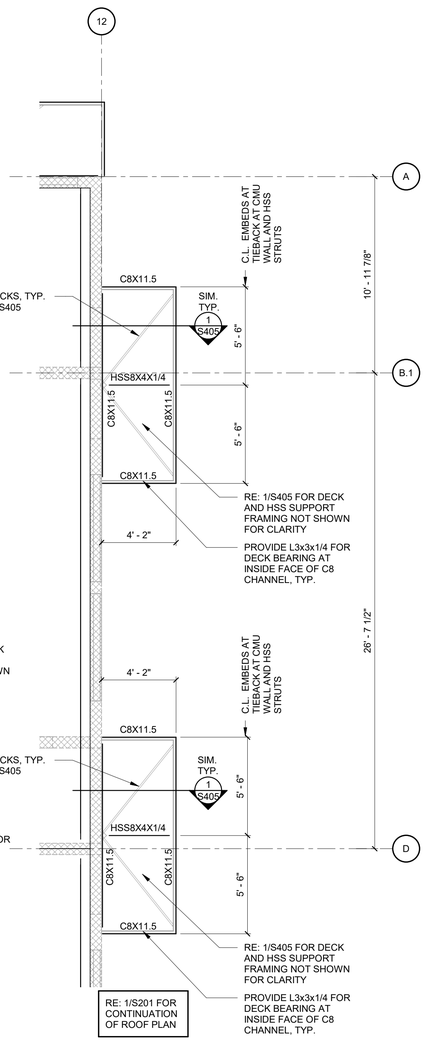
2 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"



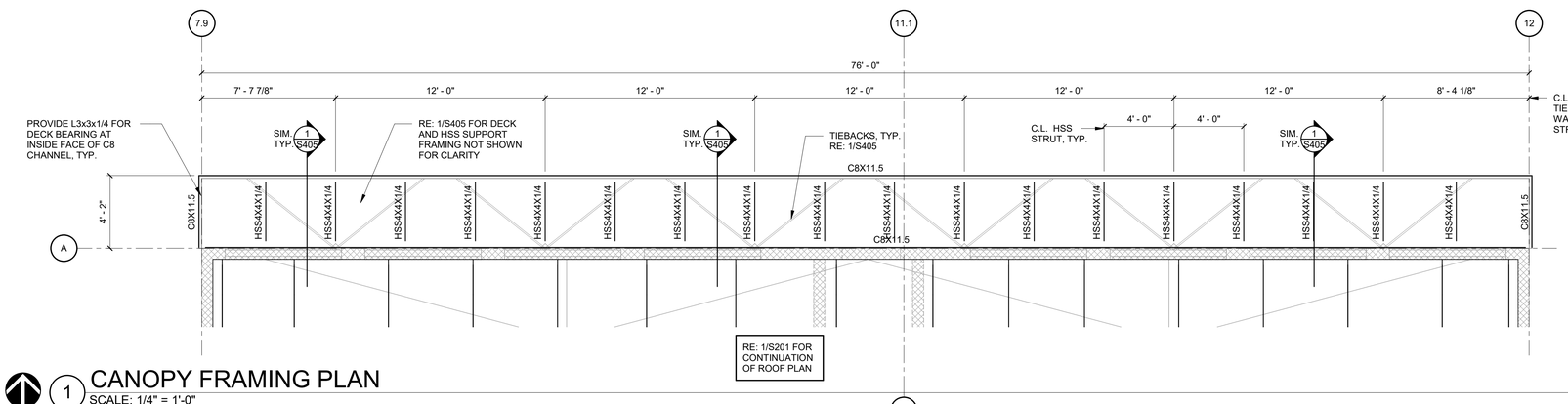
5 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"



4 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"



3 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"



1 CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"

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CANOPY FRAMING PLANS

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S203

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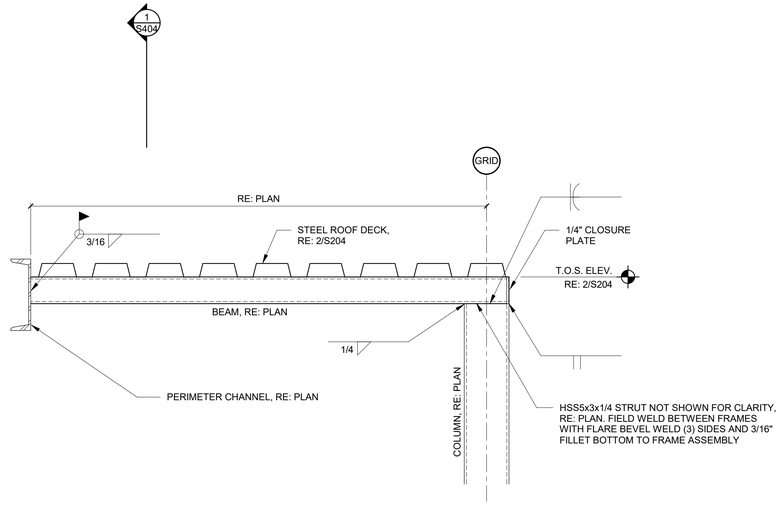
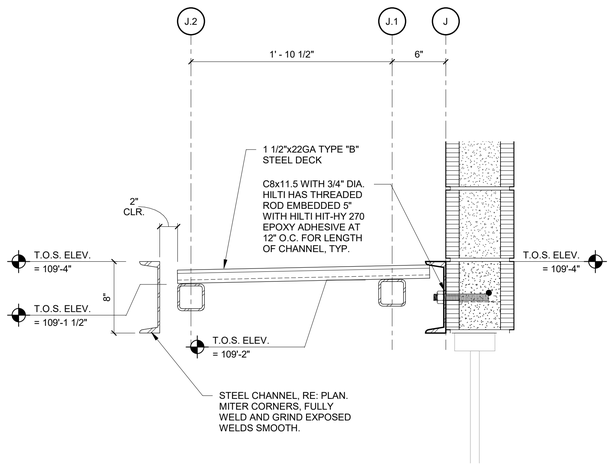
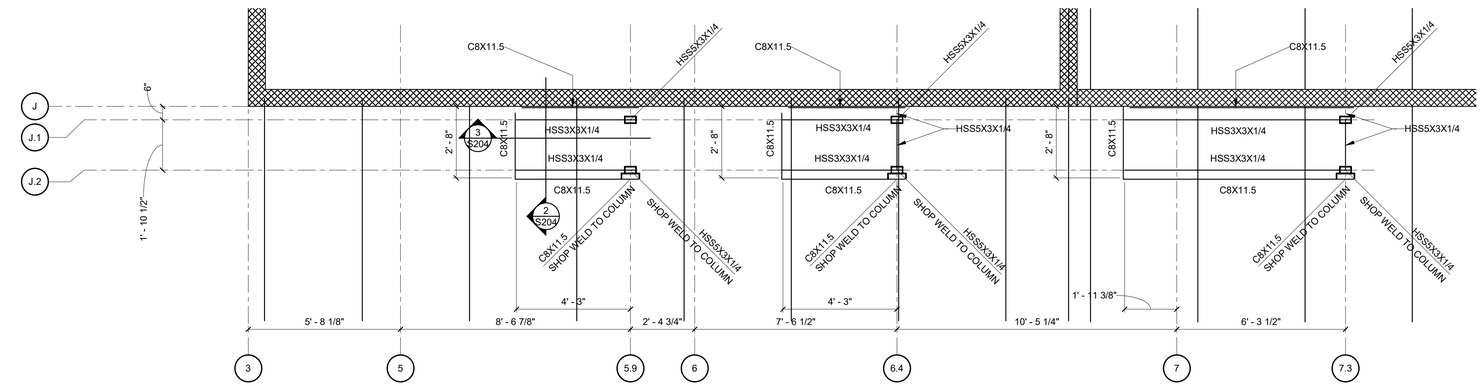


3 SCREEN FRAMING SECTION
SCALE: 1 1/2" = 1'-0"



2 SCREEN FRAMING SECTION
SCALE: 1 1/2" = 1'-0"



1 CANOPY FRAMING PLAN
SCALE: 3/8" = 1'-0"

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6.7.22

oklahoma c.a. #1460, exp. 06/30/23
SEAL

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06-30-23

PROJECT NUMBER
M31114

ISSUE DATE
6/07/2022

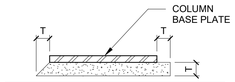
REVISION DATES

SHEET TITLE
SCREEN FRAMING PLAN AND DETAILS

SHEET NUMBER
S204

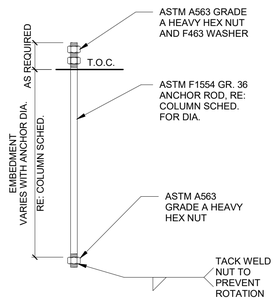
wallace design collective

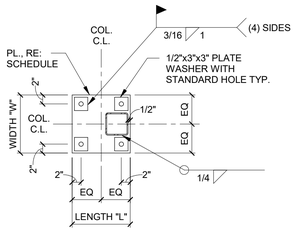
wallace design collective, pc
structural · civil · landscape · survey
470 north walnut avenue, suite 200
oklahoma city, oklahoma 73104
405.236.5858 800.364.5858



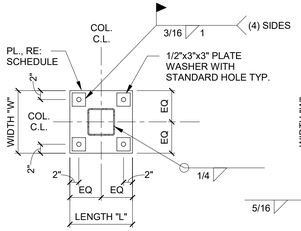
GROUT MAY BE BEVELED OR FORMED BUT SHALL EXTEND A MIN OF "T" BEYOND FACE OF BASE PLATE. "T" = 1 1/2" FOR ANCHOR BOLT DIA UP TO 1" AND 2 1/2" FOR 1 1/4" DIA OR GREATER ANCHOR BOLT.

GROUT PLACEMENT

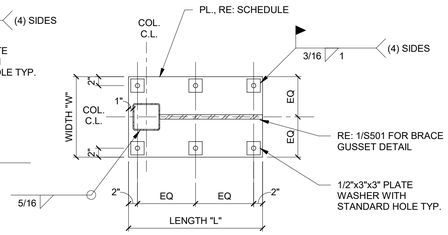




BASE PLATE TYPE 3

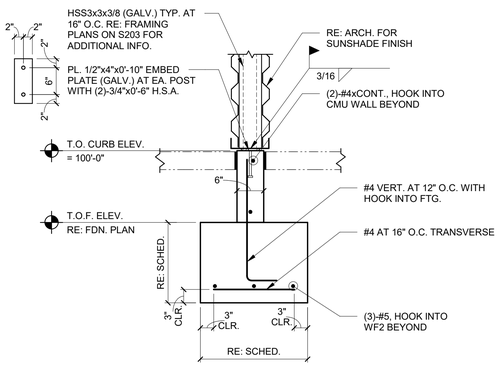


BASE PLATE TYPE 1

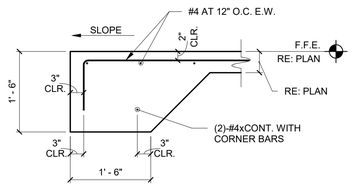


BASE PLATE TYPE 2

9 ANCHOR ROD AND BASEPLATE DIAGRAM
SCALE: 3/4" = 1'-0"



11 SCREEN WALL FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



10 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"

COLUMN AND BASE PLATE SCHEDULE					
MARK	SIZE	BASE PLATE TYPE	BASE PLATE DIMENSIONS	ANCHOR BOLTS	EMBEDMENT
C1	H.S.S.4x4x1/4	TYPE 1	3/4"x12"x1'-0"	(4)-3/4" DIA.	12"
C2	H.S.S.5x5x1/4	TYPE 1	3/4"x13"x1'-1"	(4)-3/4" DIA.	12"
C3	H.S.S.8x6x1/2	TYPE 1	1"x16"x1'-2"	(4)-1" DIA.	12"
C4	W8x31	TYPE 1	3/4"x16"x1'-4"	(4)-1" DIA.	12"
C5	W12x40	TYPE 1	1"x20"x1'-4"	(4)-1" DIA.	16"
C6	HSS5x5x3/8	TYPE 2	1 1/2"x14"x1'-8"	(6)-1" DIA.	16"
C7	HSS5x5x3/8	TYPE 1	1 1/2"x13"x1'-1"	(4)-1" DIA.	16"
C8	HSS8x8x1/4	TYPE 1	3/4"x15"x1'-3"	(4)-3/4" DIA.	12"
C9	HSS5x5x1/4	TYPE 3	3/4"x13"x1'-1"	(4)-3/4" DIA.	12"

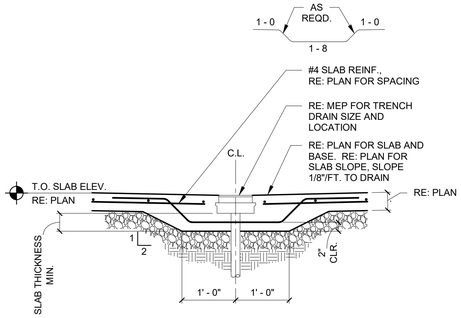
NOTES:
1. RE: 9/S301 FOR BASE PL. AND ANCHOR BOLT DETAILS.

8 COLUMN AND BASE PLATE SCHEDULE
SCALE: 3/4" = 1'-0"

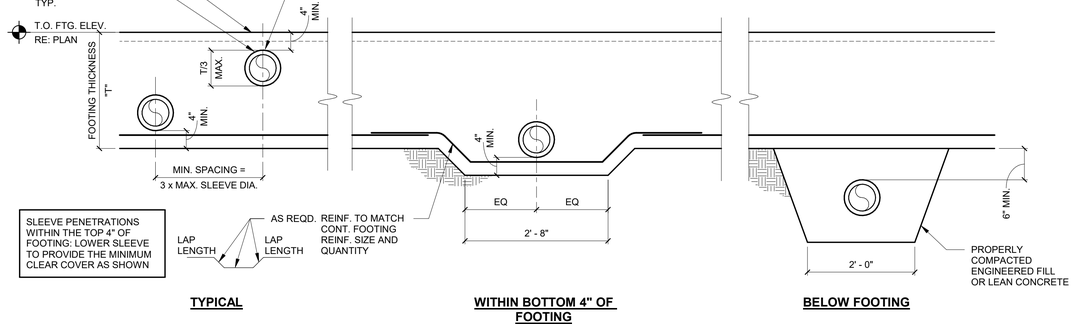
FOUNDATION SCHEDULE		
MARK	SIZE (LXWXT)	REINF.
WF1	CONT.x2'-6"x1'-4"	(3)-#5xCONT. & #4 TRANS AT 18" O.C.
WF2	CONT.x3'-6"x1'-6"	#6 AT 12" O.C. E.W. TOP & BOT.
WF3	CONT.x2'-0"x1'-4"	(3)-#5xCONT. & #4 TRANS AT 18" O.C.
F4.0	4'-0"x4'-0"x1'-4"	(4)-#6 E.W. BOT.
F5.0	5'-0"x5'-0"x1'-4"	(5)-#6 E.W. BOT.
F5.0A	5'-0"x5'-0"x2'-0"	#7 AT 12" O.C. MAX. E.W. TOP & BOT.
F6.0	6'-0"x6'-0"x1'-8"	(6)-#7 E.W. BOT.
F6.0A	6'-0"x6'-0"x2'-0"	#7 AT 12" O.C. MAX. E.W. TOP & BOT.

NOTES:
1. PROVIDE PREPARED SUBGRADE PER THE GEOTECHNICAL REPORT BELOW ALL FOOTINGS INDICATED ON THE FOUNDATION PLAN.

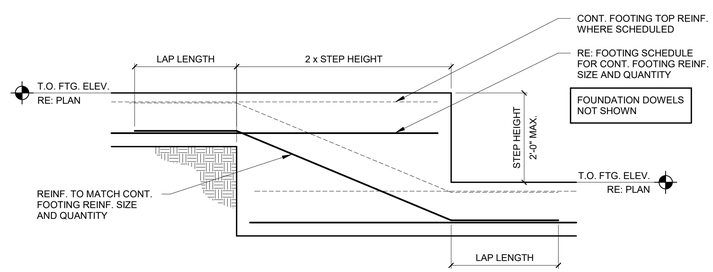
7 FOUNDATION SCHEDULE
SCALE: 3/4" = 1'-0"



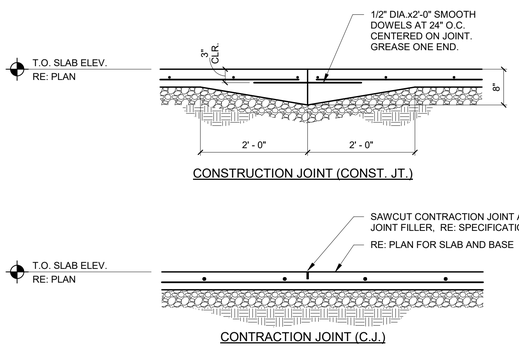
6 TYPICAL SLAB AT FLOOR DRAIN
SCALE: 3/4" = 1'-0"



5 TYPICAL PENETRATION THROUGH FOOTING
SCALE: 3/4" = 1'-0"



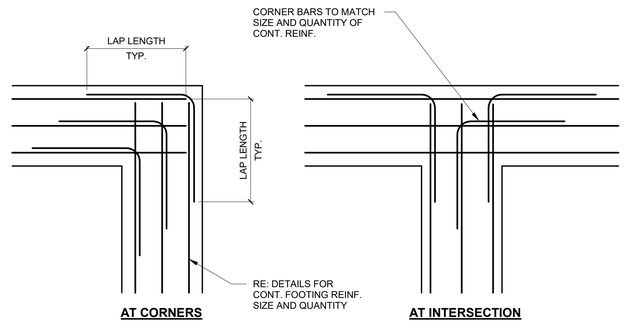
4 TYPICAL FOOTING STEP DETAIL
SCALE: 3/4" = 1'-0"



CONSTRUCTION JOINT (CONST. JT.)

CONTRACTION JOINT (C.J.)

3 TYPICAL SLAB JOINT DETAILS
SCALE: 3/4" = 1'-0"



2 TYPICAL CORNER BAR DETAIL
SCALE: 3/4" = 1'-0"

CONCRETE REINFORCING LAP LENGTH SCHEDULE						
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f'c)					
	3000psi		4000psi		4500psi	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"
#4	38"	29"	33"	25"	31"	24"
#5	47"	36"	41"	31"	38"	30"
#6	56"	43"	49"	37"	46"	35"
#7	81"	63"	71"	54"	67"	51"
#8	93"	72"	81"	62"	76"	59"
#9	105"	81"	91"	70"	86"	66"
#10	118"	91"	102"	79"	96"	74"

NOTES:
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.

1 CONCRETE REINFORCING LAP SCHEDULE
SCALE: 3/4" = 1'-0"

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MOORE, OK 73160

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FOUNDATION DETAILS

SHEET NUMBER
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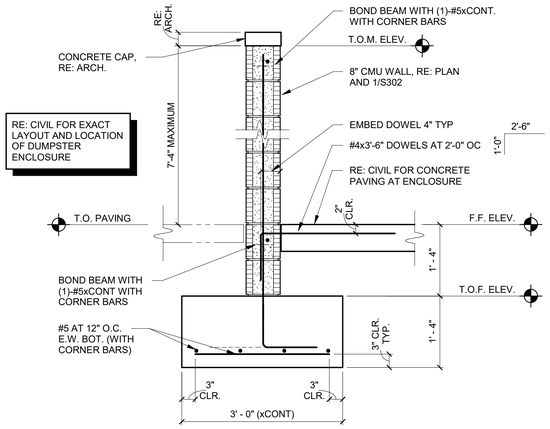
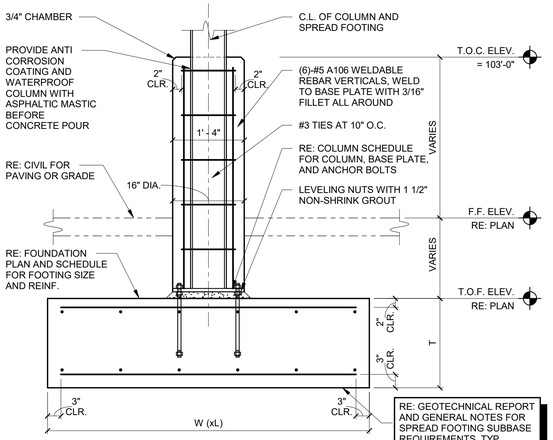
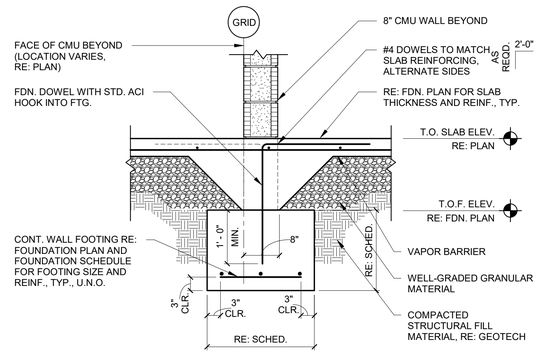


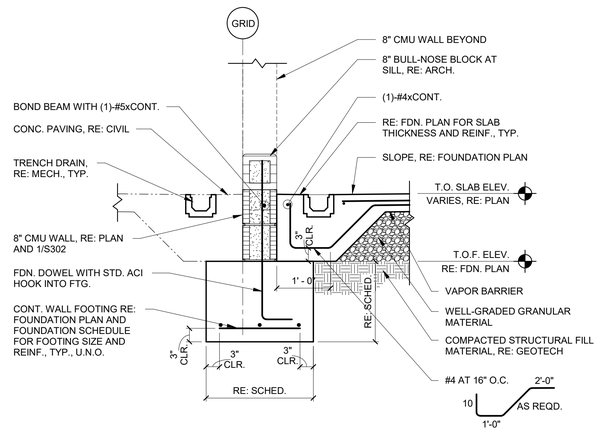
10 CMU SCREEN WALL AT ENCLOSURE
SCALE: 3/4" = 1'-0"



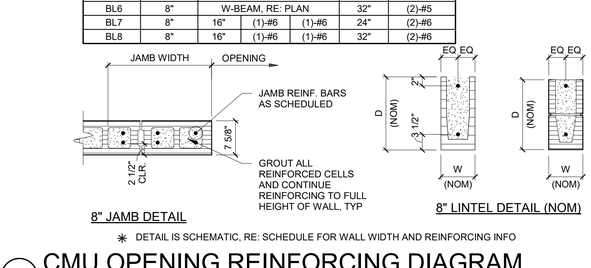
9 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



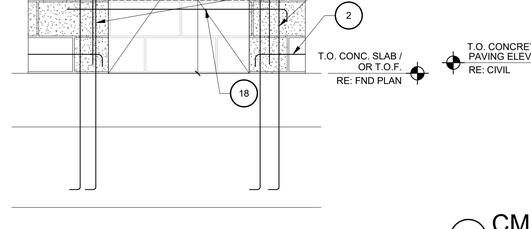
8 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



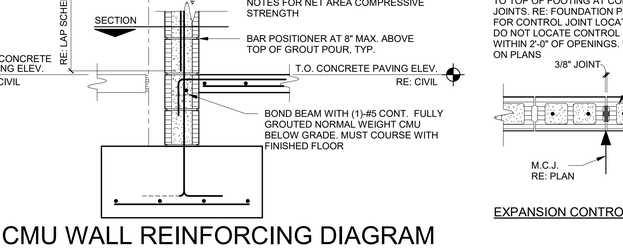
7 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



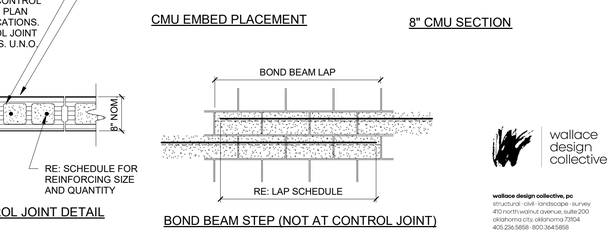
6 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



5 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



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



3 FOUNDATION DETAIL AT EXTERIOR WALL
SCALE: 3/4" = 1'-0"

NOTES:
1. REFER CMU REINFORCING LAP SCHEDULE FOR SPLICES IN VERTICAL REINFORCING.
2. BOND BEAM.
3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINFORCEMENT AND 1'-4" FOR HOOKED LINTEL, UNO REINFORCEMENT WITH STANDARD ACI HOOK. AT CORNER WALL CONDITIONS, LAP LINTEL REINF. PER CORNER DETAIL ON 1/S302.
4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS.
5. CONTINUE VERTICAL REINFORCING INTO LINTEL BEAM WITH STANDARD ACI HOOK.
6. PROVIDE DOWELS TO MATCH ALL VERTICAL REINFORCING LOCATIONS. LAP PER SCHEDULE ON 1/S302
7. ALL VERTICAL BARS AT JAMBS AND PILASTERS SHALL EXTEND FROM THE BOND BEAM BELOW THE OPENING TO THE BOND BEAM AT THE TOP OF WALL.
8. CONTINUE HORIZONTAL REINFORCING INTO JAMB AND PROVIDE STANDARD ACI HOOK INTO END CELL.
9. BOND BEAM AT TOP OF WALL.
10. GROUT SOLID ALL REINFORCED CELLS. GROUT ENTIRE WALL SOLID AT STORM SHELTER.
11. USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE TROUGH-TYPE BLOCKS AT BOND BEAMS.
12. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNO.
13. ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
14. REFER TO DETAILS FOR LOCATIONS OF ADDITIONAL BOND BEAMS.
15. HORIZ. JOINT REINFORCING SHALL BE GALV. LADDER TYPE SPACED AT 16" OC ABOVE GRADE AND 8" O.C. BELOW GRADE.
16. MASONRY REQUIRES SPECIAL INSPECTION. RE: S010
17. REFER TO MASONRY GENERAL NOTES SECTION ON S001 FOR ADDITIONAL NOTES AND REQUIREMENTS FOR CMU CONSTRUCTION.
18. PROVIDE (1)-#5 AT BOTTOM OF ALL OPENINGS ABOVE FINISHED FLOOR. EXTEND A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT REINFORCEMENT AND 1'-4" FOR HOOKED REINFORCEMENT WITH STANDARD ACI HOOK.

CMU LINTEL AND JAMB SCHEDULE

MARK	WALL WIDTH	DEPTH (D)	BOTTOM REINF.	TOP REINF.	JAMB WIDTH	JAMB REINF PER CELL
BL1	8"	16"	(1)-#5	---	8"	(2)-#5
BL2	8"	24"	(1)-#5	(1)-#5	8"	(2)-#5
BL3	8"	24"	(1)-#5	(1)-#5	16"	(2)-#5
BL4	8"	32"	(1)-#5	(1)-#5	24"	(2)-#5
BL5	8"	W-BEAM, RE: PLAN			24"	(2)-#5
BL6	8"	W-BEAM, RE: PLAN			32"	(2)-#5
BL7	8"	16"	(1)-#6	(1)-#6	24"	(2)-#6
BL8	8"	16"	(1)-#6	(1)-#6	32"	(2)-#6

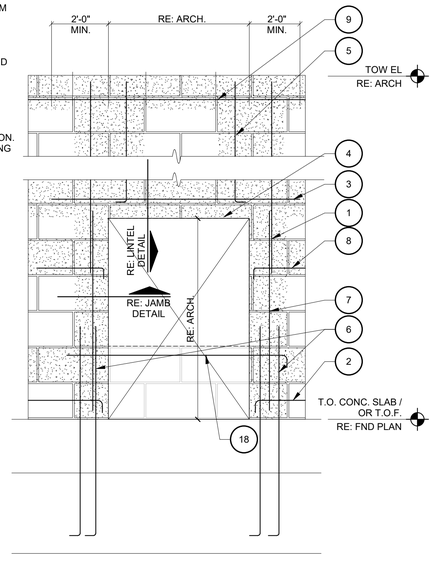
8" JAMB DETAIL

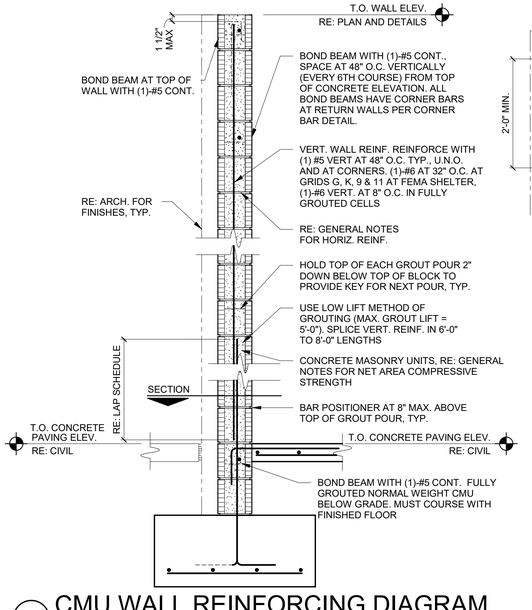
8" LINTEL DETAIL (NOM)

✱ DETAIL IS SCHEMATIC, RE: SCHEDULE FOR WALL WIDTH AND REINFORCING INFO

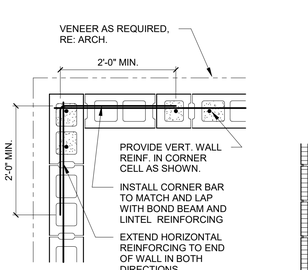
2 CMU OPENING REINFORCING DIAGRAM
SCALE: 3/4" = 1'-0"

STORM SHELTER LOUVER OPENINGS: RE: ARCH./MECH. FOR LOCATIONS, PROTECTION REQUIREMENT AND FEMA RATINGS FOR VENTILATION OPENINGS IN THE STORM SHELTER WALLS.

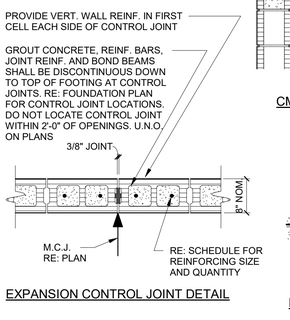




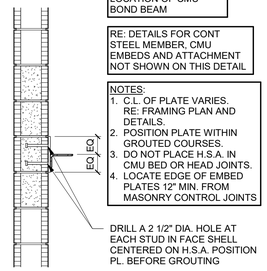
1 CMU WALL REINFORCING DIAGRAM
SCALE: 3/4" = 1'-0"



CORNER BAR DETAIL



EXPANSION CONTROL JOINT DETAIL

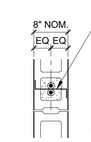


CMU EMBED PLACEMENT

BOND BEAM STEP (NOT AT CONTROL JOINT)

MASONRY REINFORCING LAP SCHEDULE
(ACI 530-11) (IBC 2015)

BAR SIZE	8" BLOCK	
	SINGLE REINF.	DOUBLE REINF.
#3	18"	13"
#4	24"	24"
#5	30"	40"
#6	36"	79"
#7	42"	115"
#8	48"	186"



REFERENCE FOUNDATION PLAN AND FRAMING PLANS FOR FOUNDATION AND FRAMING INFORMATION NOT SHOWN

8" CMU SECTION

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TYPICAL CMU WALL AND FOUNDATION DETAILS

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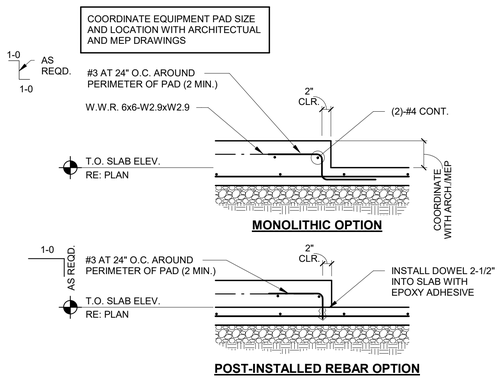
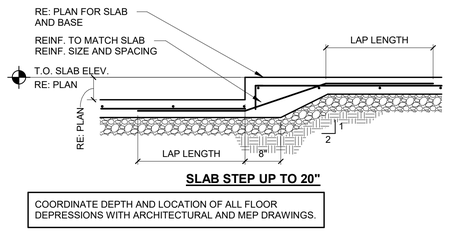
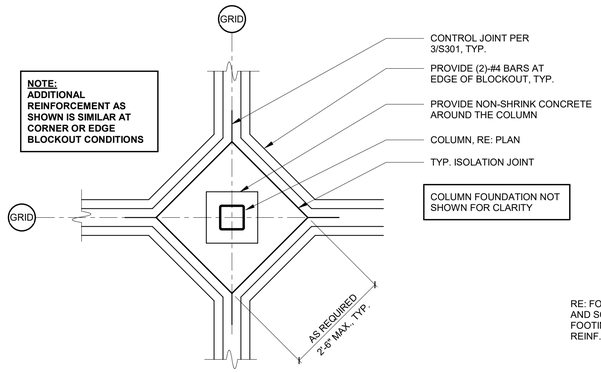


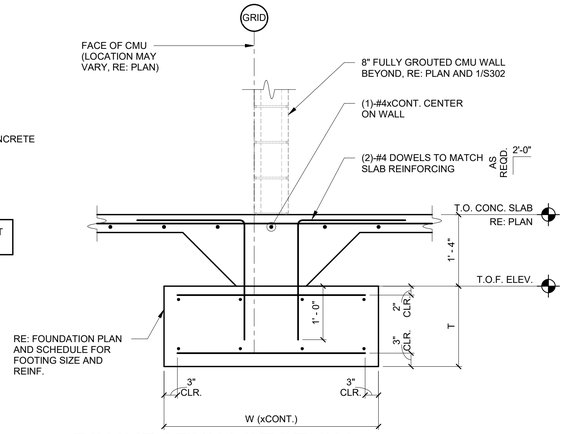
10 TYPICAL EQUIPMENT PAD DETAIL
SCALE: 3/4" = 1'-0"



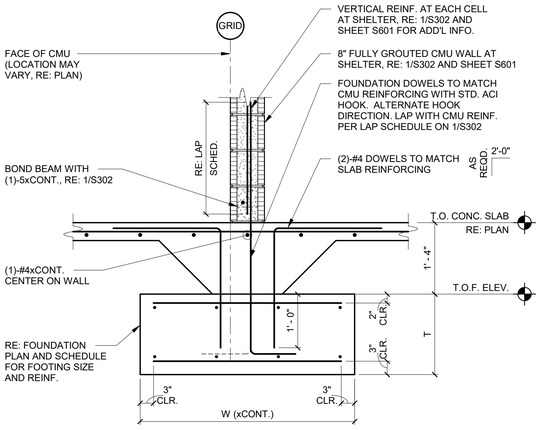
9 TYPICAL SLAB STEP DETAIL
SCALE: 3/4" = 1'-0"



8 FNDN-COLUMN BLOCKOUT DETAIL
SCALE: 3/4" = 1'-0"



7 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



6 FOUNDATION SECTION
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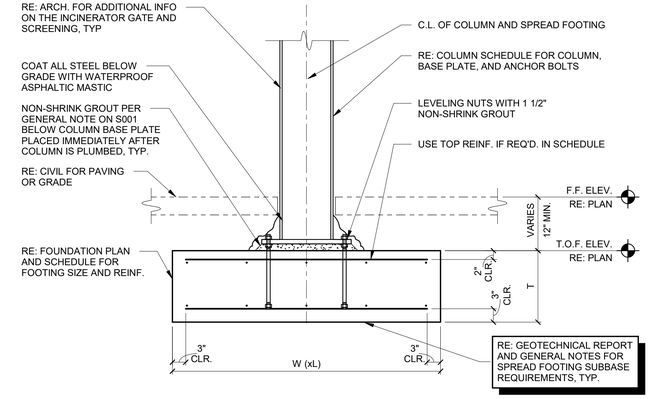
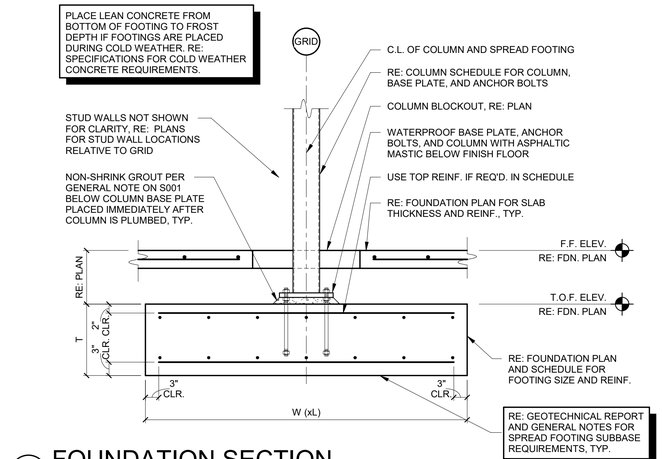


5 EXTERIOR COLUMN FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



4 FOUNDATION SECTION
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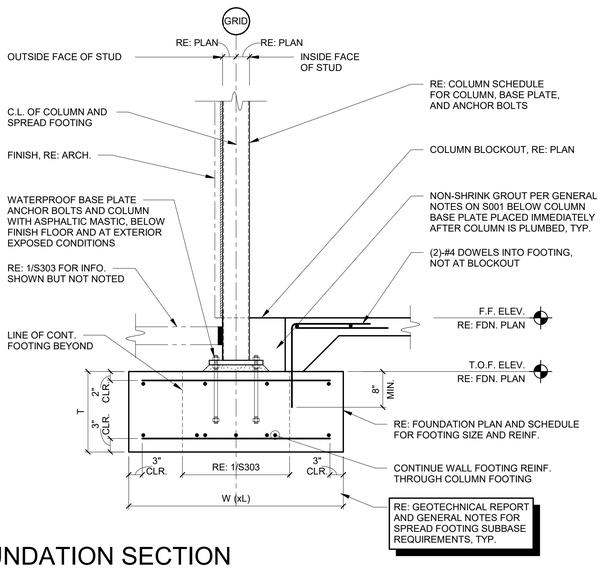

3 FOUNDATION SECTION
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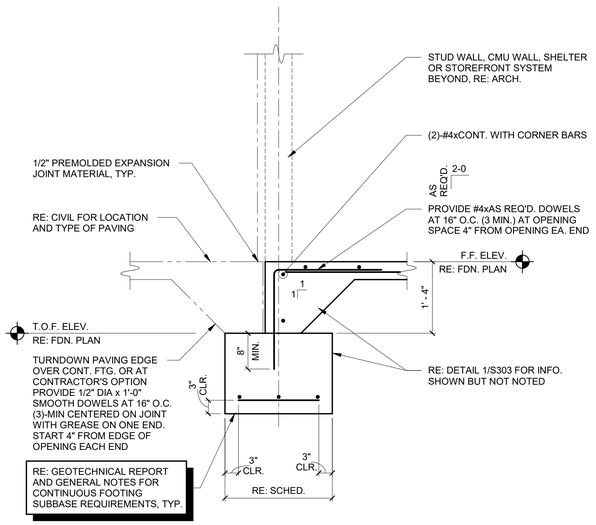

2 FOUNDATION SECTION
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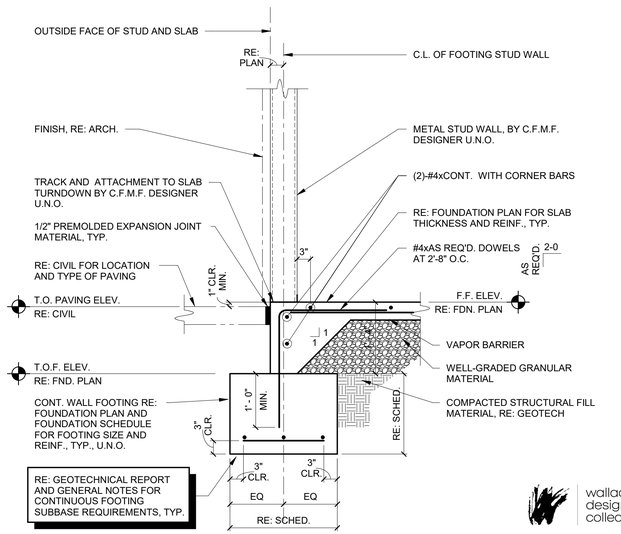

1 FOUNDATION SECTION
SCALE: 3/4" = 1'-0"

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SHEET TITLE
FOUNDATION DETAILS

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S303

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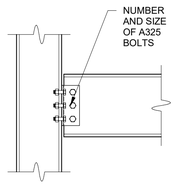
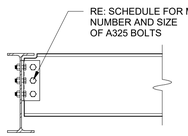
STEEL BEAM MINIMUM CONNECTION SCHEDULE

BEAM	MINIMUM BOLT DIA.	MINIMUM NUMBER OF BOLTS	MINIMUM LRFD FACTORED END REACTION (KIPS)	NOTE
W8	3/4"	2	24	1,2,3,4
W10	3/4"	2	24	1,2,3,4
W12	3/4"	3	38	1,2,3,4
W14	3/4"	3	38	1,3,4
W16	3/4"	4	52	1,3,4
W18	3/4"	4	52	1,3,4
W21	3/4"	5	64	1,3,4
W24	3/4"	5	64	1,3,4

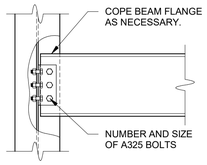
BEAM MINIMUM CONNECTION SCHEDULE NOTES:
1. UNLESS INDICATED ON FRAMING PLAN AND CORRESPONDING DETAILS OR NOTES BELOW, SCHEDULE INDICATES THE MINIMUM NUMBER OF BOLTS ALLOWED FOR BEAM CONNECTIONS.
2. MINIMUM BOLT SCHEDULE APPLIES TO CHANNEL SECTIONS OF SAME NOMINAL DEPTHS, U.N.O.
3. CONNECTIONS SHALL BE DESIGNED FOR LRFD FACTORED END REACTIONS SHOWN ON PLANS. IF NO REACTION IS SHOWN ON PLAN, DESIGN FOR REACTION IN SCHEDULE.
4. RE: PLAN FOR REQUIRED MOMENT CONNECTION LOCATIONS INDICATED BY " ◁▷ " ON PLAN.



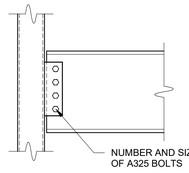
BEAM TO FLANGE CONNECTION



BEAM TO BEAM CONNECTION

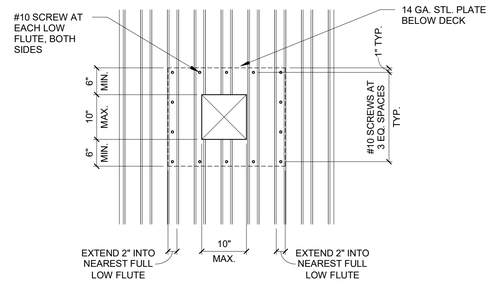


BEAM TO WEB CONNECTION

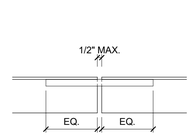


BEAM TO HSS

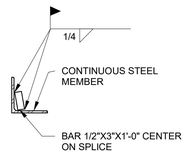
THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS. RE: PLANS AND SCHEDULE FOR LRFD FACTORED LOADS, AND RE: STEEL BEAM MINIMUM CONNECTION SCHEDULE FOR MINIMUM CONNECTION REQUIRED.



NOTES:
1. PLATE MAY BE LOCATED ABOVE DECK AT CONTRACTOR'S OPTION
2. PLATE IS NOT REQUIRED IF OPENING IS 6" OR LESS. IF TWO OR MORE OPENINGS THAT ARE 6" OR LESS ARE CUT IN THE SAME DECK FLUTE AND ARE LOCATED WITHIN THE SAME SPAN OF DECK BETWEEN SUPPORT POINTS THEN THE PLATE IS REQUIRED.

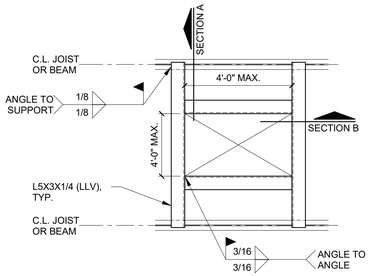


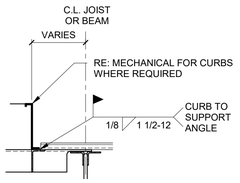
TYPICAL SPLICE PLAN



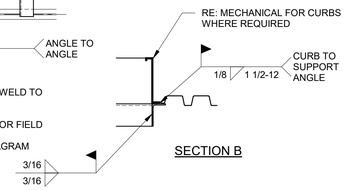
TYPICAL SPLICE SECTION

8 TYPICAL BEAM CONNECTION DETAIL
SCALE: 3/4" = 1'-0"





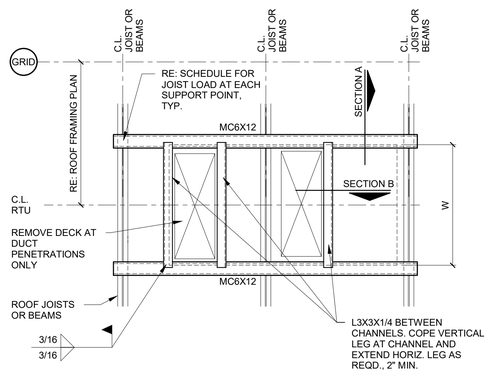
SECTION A



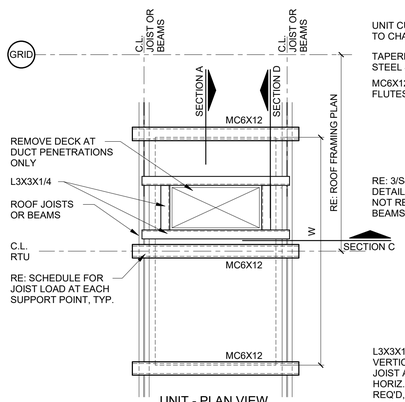
SECTION B

NOTES:
1. INSTALL CURBS, HEADERS, AND FRAMES AND WELD TO SUPPORT STEEL BEFORE DECK IS PLACED
2. DO NOT INSTALL CURBS ON TOP OF DECK
3. STEEL SUPPLIER TO FURNISH STOCK ANGLE FOR FIELD FABRICATED FRAMES
4. RE: ROOF DECK DIAPHRAGM CONNECTION DIAGRAM FOR DECK ATTACHMENT TO SUPPORT ANGLE

7 TYPICAL OPENING IN DECK LESS THAN 10"x10"
SCALE: 3/4" = 1'-0"



UNIT - PLAN VIEW
N.T.S.

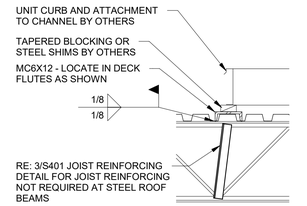


UNIT - PLAN VIEW
N.T.S.

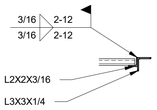
RTU SUPPORT LOAD SCHEDULE	
UNIT SIZE	JOIST POINT LOAD
RTU 1-4	400 LBS
DOAS	700 LBS

RTU SUPPORT NOTES:
1. INSTALL MC6X12'S AFTER DECK PLACEMENT.
2. POSITION CURB OVER CHANNELS AND LOCATE REQUIRED DUCT PENETRATIONS THRU ROOF. RE: MECHANICAL DRAWINGS FOR EXACT SIZES.
3. REMOVE DECK AT DUCT PENETRATION LOCATIONS AS REQUIRED. FIELD WELD NEW DECK SUPPORT ANGLES BETWEEN CHANNELS. DECK SUPPORT ANGLE MAY BE OMITTED IF EDGE OF PENETRATION IS WITHIN 6 INCHES OF A JOIST.
4. THE DIMENSIONS SHOWN AT EACH ROOF TOP UNIT ARE FOR THE JOIST MANUFACTURER TO USE TO LOCATE CONCENTRATED LOADS AND ARE NOT INTENDED TO PROVIDE EXACT LOCATIONS OF STEEL FRAMING FOR SUPPORT OF THE UNIT CURBS. LOCATION OF STEEL FRAMING SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR.

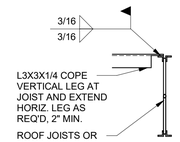
6 ANGLE SPLICE DETAIL
SCALE: 1 1/2" = 1'-0"



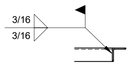
SECTION A



SECTION B



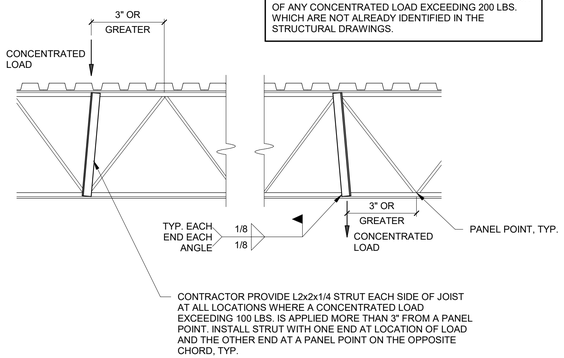
SECTION C



SECTION D

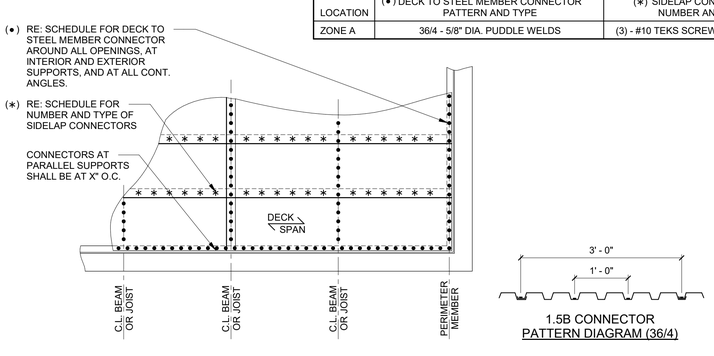
5 TYPICAL OPENING IN ROOF DECK LARGER THAN 10"x10"
SCALE:NTS

NOTIFY THE ENGINEER OF RECORD FOR VERIFICATION OF ANY CONCENTRATED LOAD EXCEEDING 200 LBS. WHICH ARE NOT ALREADY IDENTIFIED IN THE STRUCTURAL DRAWINGS.

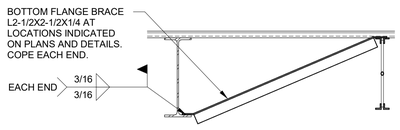


4 TYPICAL ROOF TOP UNIT AND DECK SUPPORT
SCALE: 3/4" = 1'-0"

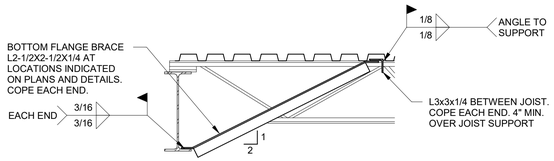
DECK DIAPHRAGM CONNECTION SCHEDULE		
LOCATION	(•) DECK TO STEEL MEMBER CONNECTOR PATTERN AND TYPE	(∗) SIDELAP CONNECTOR NUMBER AND TYPE
ZONE A	36/4 - 5/8" DIA. PUDDLE WELDS	(3) - #10 TEKS SCREWS PER SPAN



1.5B CONNECTOR PATTERN DIAGRAM (36/4)



JOIST PARALLEL TO BEAM



JOIST PERPENDICULAR TO BEAM

3 JOIST REINFORCING DETAIL
SCALE: 3/4" = 1'-0"

2 ROOF DECK DIAPHRAGM CONNECTION DIAGRAM
SCALE: 3/4" = 1'-0"

1 TYPICAL BOTTOM FLANGE BRACE CONNECTION
SCALE: 3/4" = 1'-0"

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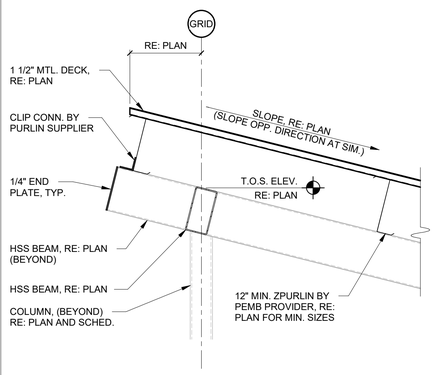
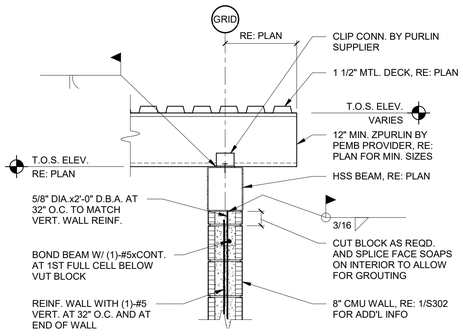
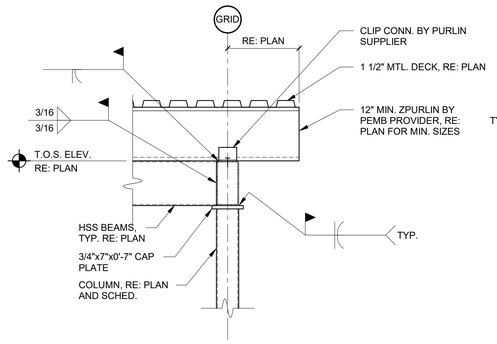
THE DRAWINGS AND OTHER INFORMATION CONTAINED ON THIS SHEET ARE TO BE USED ONLY IN CONNECTION WITH THE PROJECT LOCATED AT THE PROJECT ADDRESS SHOWN IN THE TITLE BLOCK.



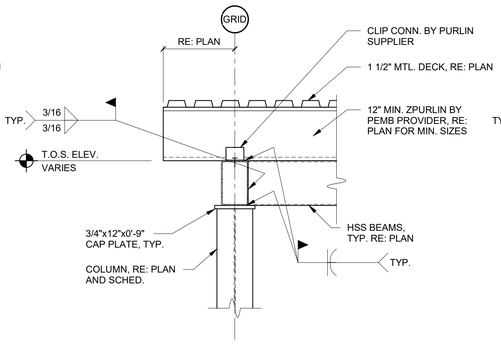
10 FRAMING SECTION
SCALE: 3/4" = 1'-0"



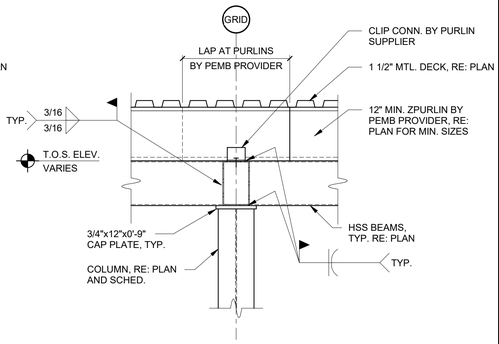
9 FRAMING SECTION
SCALE: 3/4" = 1'-0"



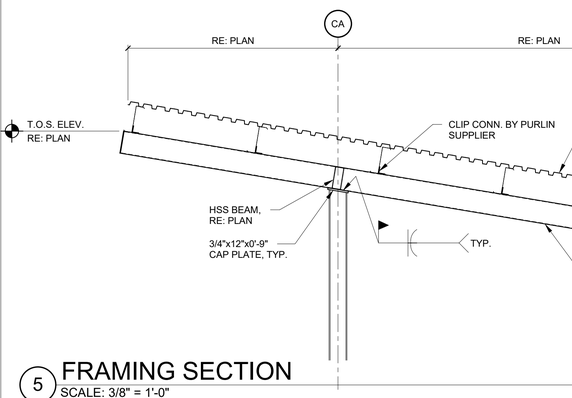
8 FRAMING SECTION
SCALE: 3/4" = 1'-0"



7 FRAMING SECTION
SCALE: 3/4" = 1'-0"



6 FRAMING SECTION
SCALE: 3/4" = 1'-0"



5 FRAMING SECTION
SCALE: 3/8" = 1'-0"

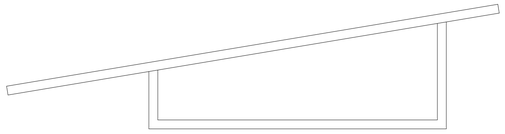
NOTES:
1. ROOF TRUSS LOADING, UNO. (LOADS ARE UNFACTORED, ASD, UNO)

TOP CHORD:---------- LL=20 PSF
---------- DL=15 PSF
BOTTOM CHORD:---------- DL=10 PSF

SELF WEIGHT OF THE TRUSSES SHALL BE ADDED TO THE ABOVE LOADS.

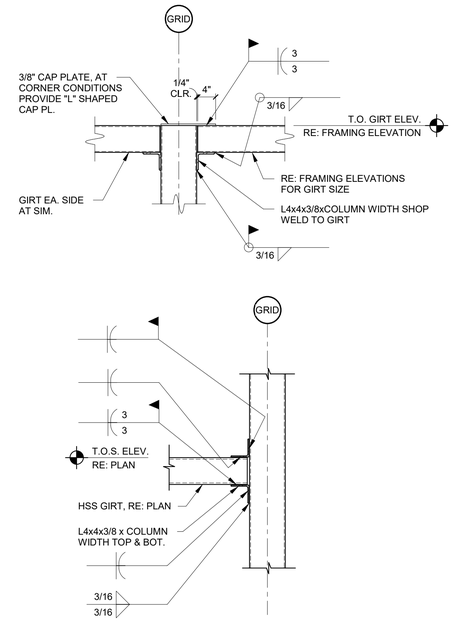
DEFLECTION LIMITS---------- L/240(TL)
---------- L/360(LL)

2. REFERENCE PLANS AND DETAILS FOR ADDITIONAL DESIGN LOADS OR SHEAR TRUSS/ BLOCKING REQUIRMENTS
3 ALL TRUSS TOP CHORDS SHALL BE MINIMUM, 16 GAGE STEEL FRAMING.
4. RE: ARCH FOR ROOF SLOPES AND PROFILES.
5. TRUSS MANUFACTURER TO SUPPLY ROOF TIES AT TRUSS SUPPORT LOCATIONS TO RESIST NET UPLIFT.
6. TRUSS MANUFACTURER TO DESIGN TRUSSES FOR DESIGN LOADS (UNFACTORED) ABOVE AND WIND/SNOW LOADS AS INDICATED ON GENERAL NOTES S0.0.
7. FRAMING PLANS INDICATE THE REQUIRED BASIC TRUSS LAYOUT. SIGNIFICANT DEVIATIONS FROM THESE PLANS SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
8. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY FASTENED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL BRACING SHALL BE DESIGNED BY MANUFACTURER AND INDICATED ON SHOP DRAWINGS.

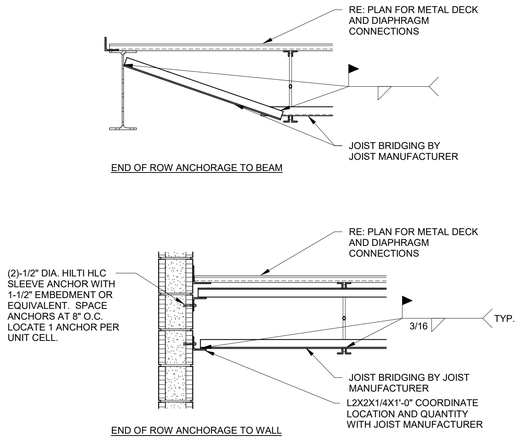


NOTE:
- TRUSS PROFILES DEPICT TYPICAL PROFILES. TRUSS MANUFACTURER SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF PITCHES, PROFILES, ANGLES, AND CEILING ELEVATIONS WHICH MAY REQUIRE PROFILE VARIANCE.
- REFERENCE ARCHITECTURAL DRAWINGS FOR TRUSS END DEPTH REQUIREMENTS.

4 PRE-ENGINEERED LIGHT GAGE TRUSS PROFILES AND NOTES
SCALE: 1" = 1'-0"



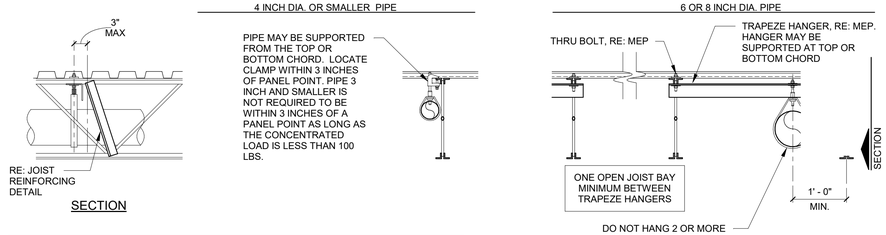
3 TYPICAL HSS BM TO COLUMN CONN.
SCALE: 3/4" = 1'-0"



2 TYPICAL BRIDGING CONNECTION
SCALE: 3/4" = 1'-0"

NOTES:
1. UTILIZE THESE HANGING METHODS FOR ALL PIPING. SPACE HANGERS IN ACCORDANCE WITH SCHEDULE. LOCATE HANGERS WITHIN 3 INCHES OF JOIST PANEL POINTS IF HANGER CAN NOT BE LOCATED WITHIN 3" OF PANEL POINT PROVIDE JOIST REINFORCEMENT PER THE JOIST REINFORCING DETAIL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PIPE SUPPORTS AND CONNECTIONS UNLESS SPECIFICALLY DESIGNED AND DETAILED BY OTHER DISCIPLINES.

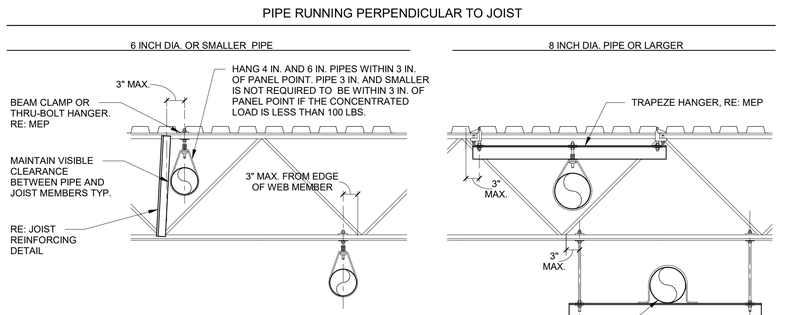
PIPE RUNNING PARALLEL TO JOIST



MAXIMUM HANGER SPACING FOR PIPING PARALLEL TO JOISTS		
4" DIA. PIPE	6" DIA. PIPE	8" DIA. PIPE
BEAM CLAMP: 12'-0" MAX	TRAPEZE: 12'-0" MAX	TRAPEZE: 6'-0" MAX

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

PIPE RUNNING PERPENDICULAR TO JOIST



MAXIMUM HANGER SPACING FOR PIPING PERPENDICULAR TO JOISTS		
4" DIA. PIPE	6" DIA. PIPE	8" DIA. PIPE OR LARGER
BEAM CLAMP OR THRU BOLT HANGER: 12'-0" MAX OR EVERY OTHER JOIST	BEAM CLAMP: 6'-0" MAX OR EVERY JOIST THRU BOLT HANGER: 12'-0" MAX OR EVERY OTHER JOIST	BEAM CLAMP OR THRU BOLT HANGER: 6'-0" MAX OR EVERY JOIST

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S402

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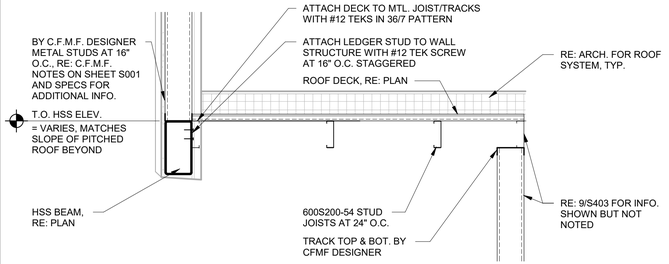

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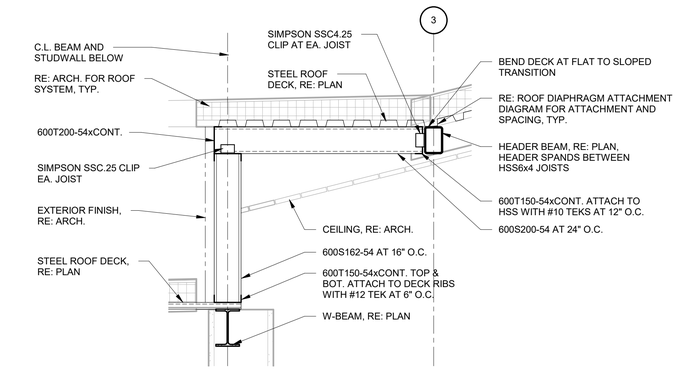

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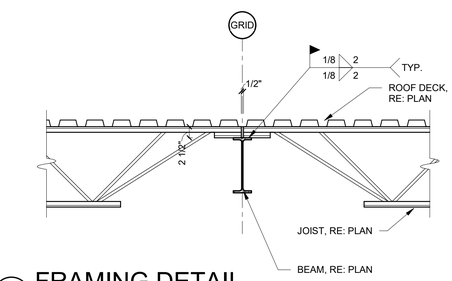

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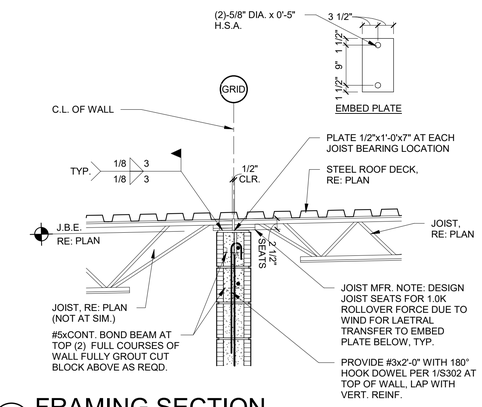

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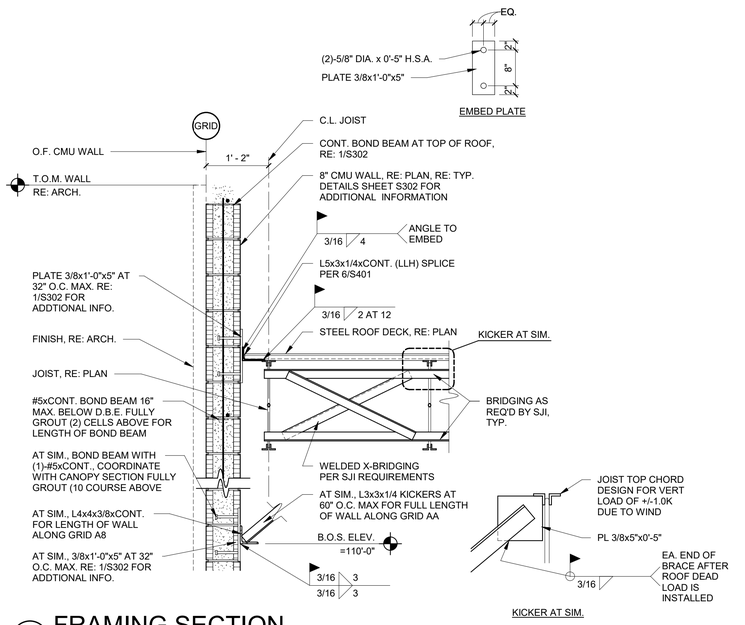

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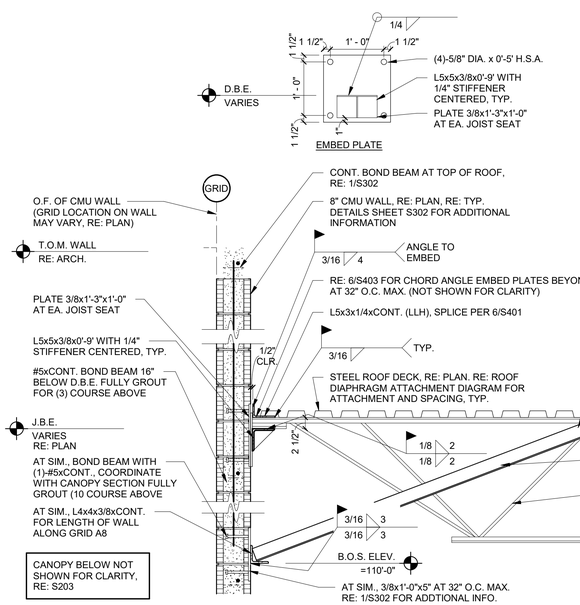

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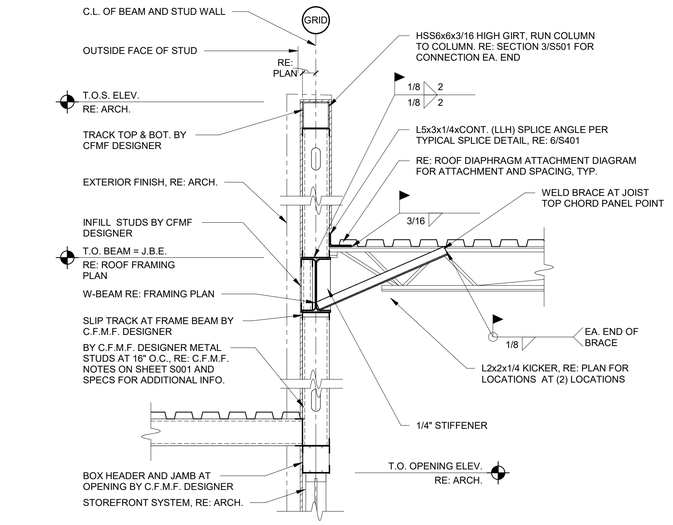

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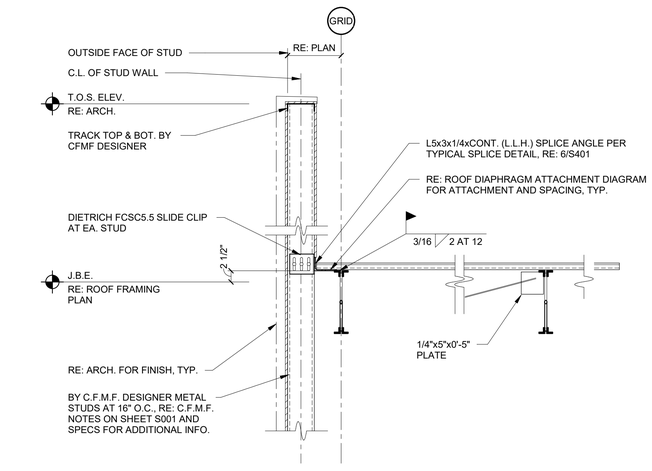

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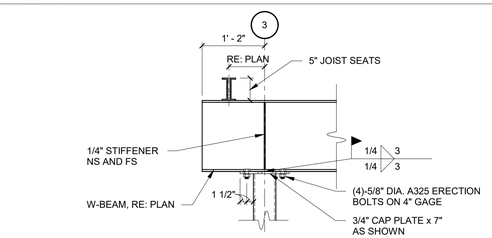

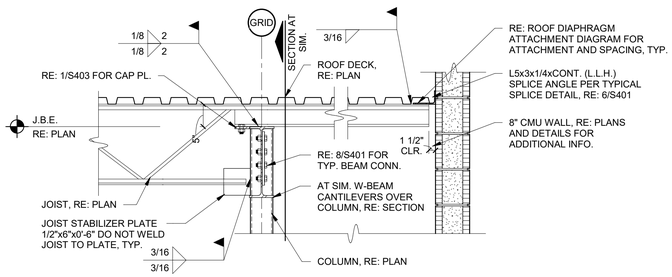

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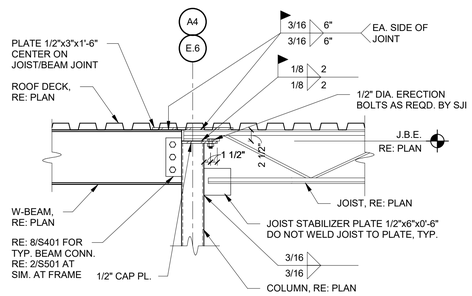

1 FRAMING SECTION
SCALE: 3/4" = 1'-0"

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06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/07/2022
REVISION DATES

SHEET TITLE
FRAMING DETAILS

SHEET NUMBER
S403

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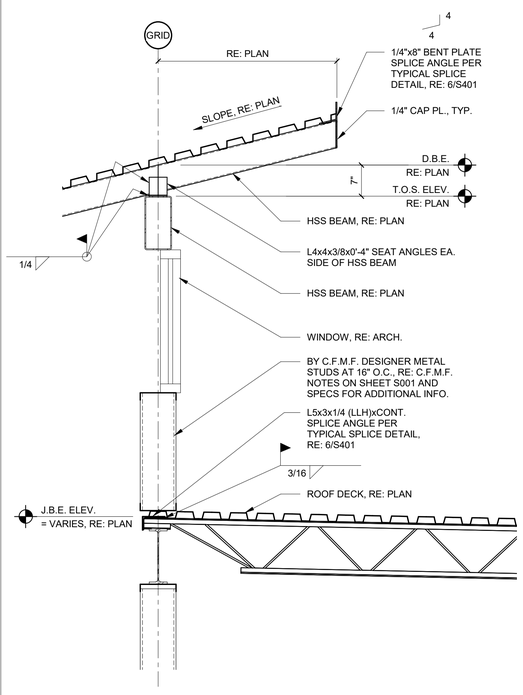

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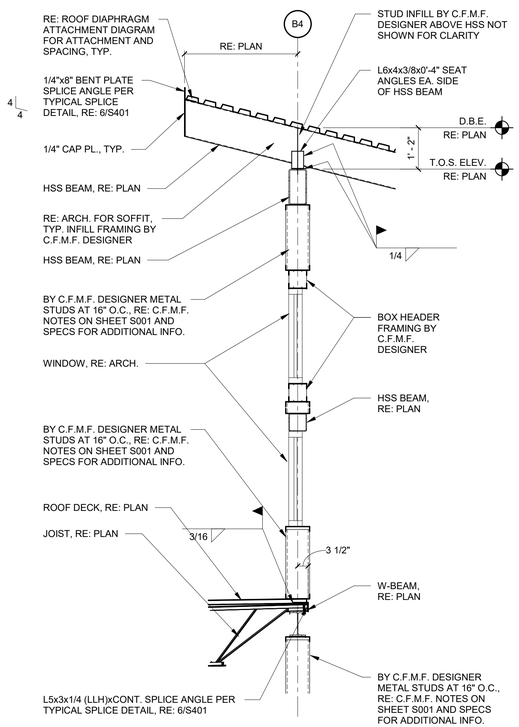

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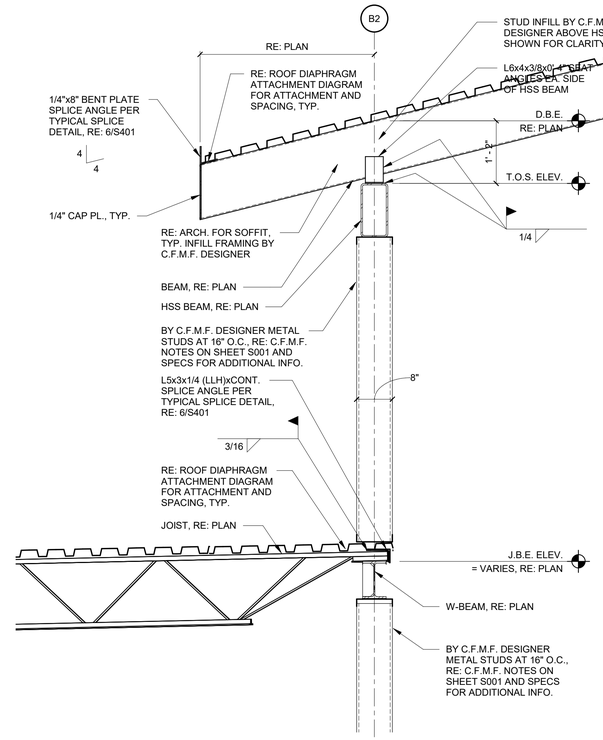

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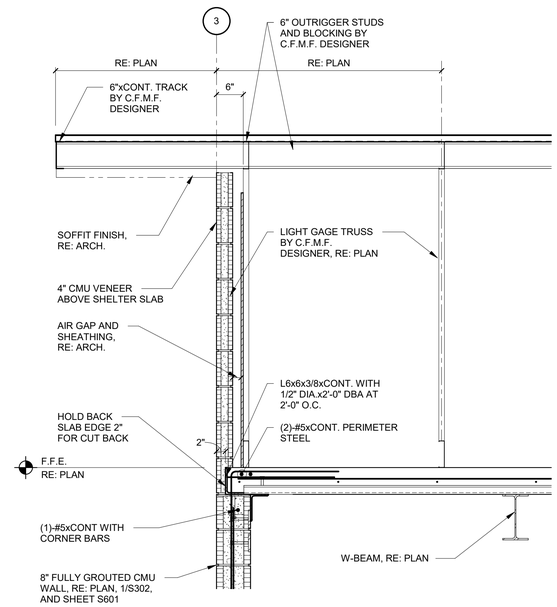

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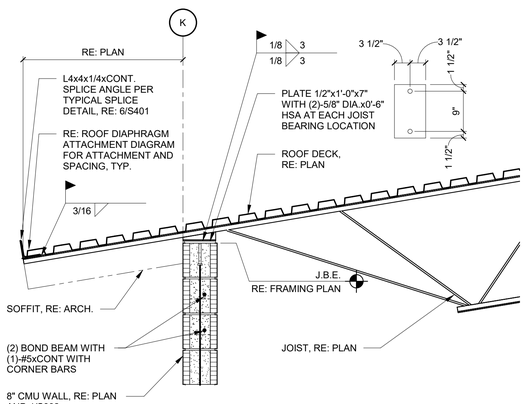

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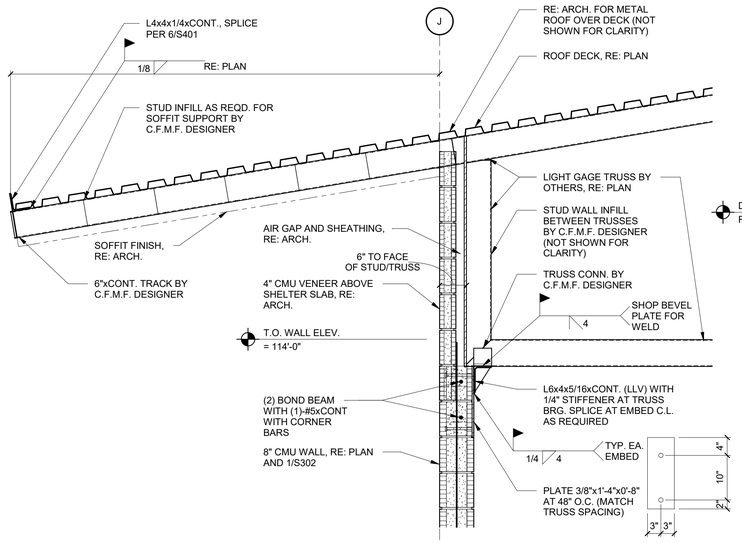

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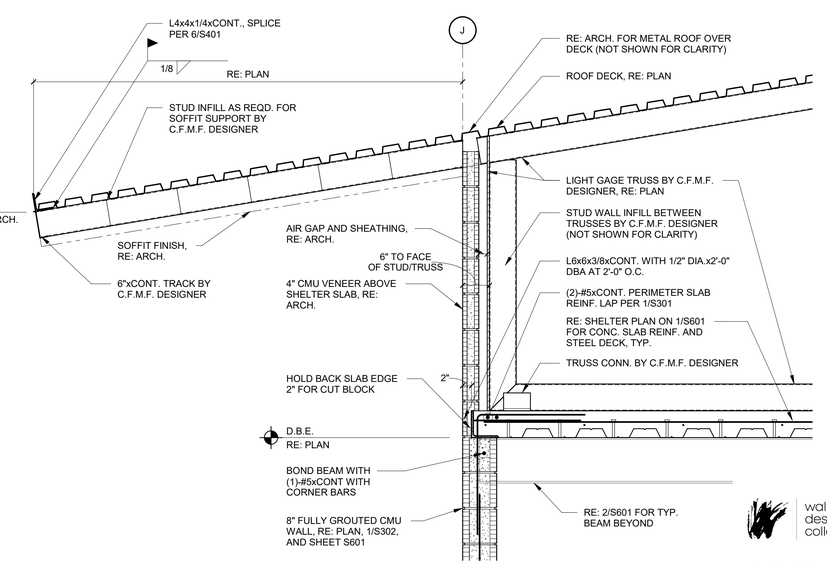

1 FRAMING SECTION
SCALE: 3/4" = 1'-0"

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S404

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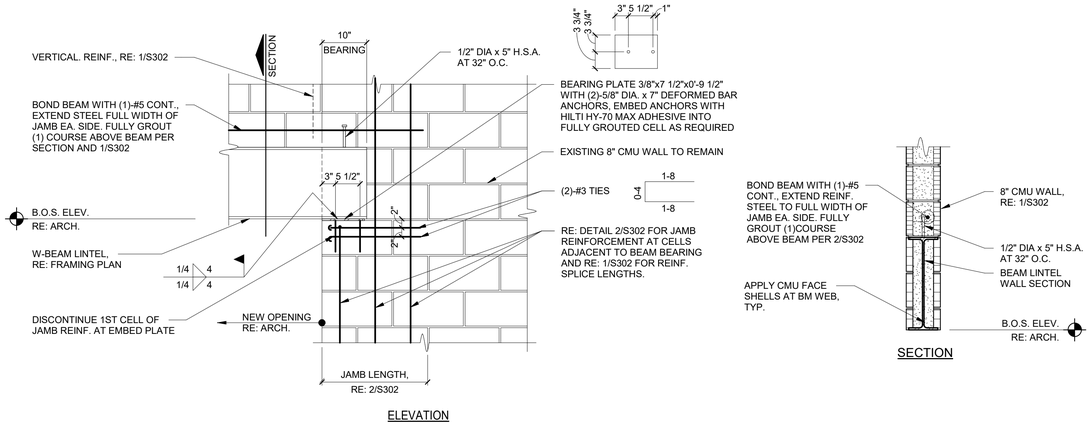

ELEVATION

SECTION

4 BEAM LINTEL SECTION
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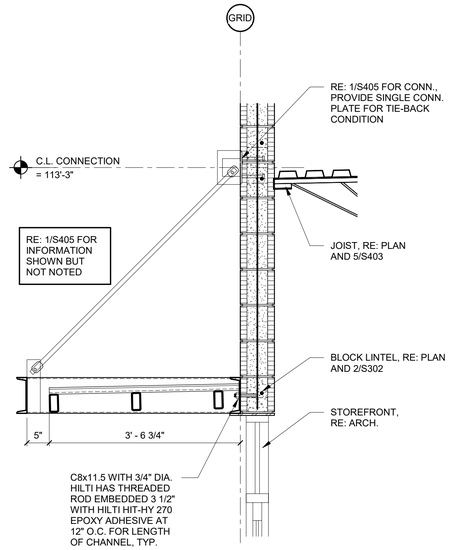

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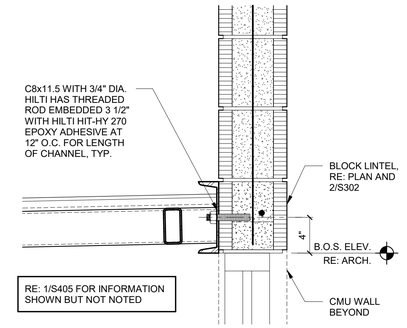

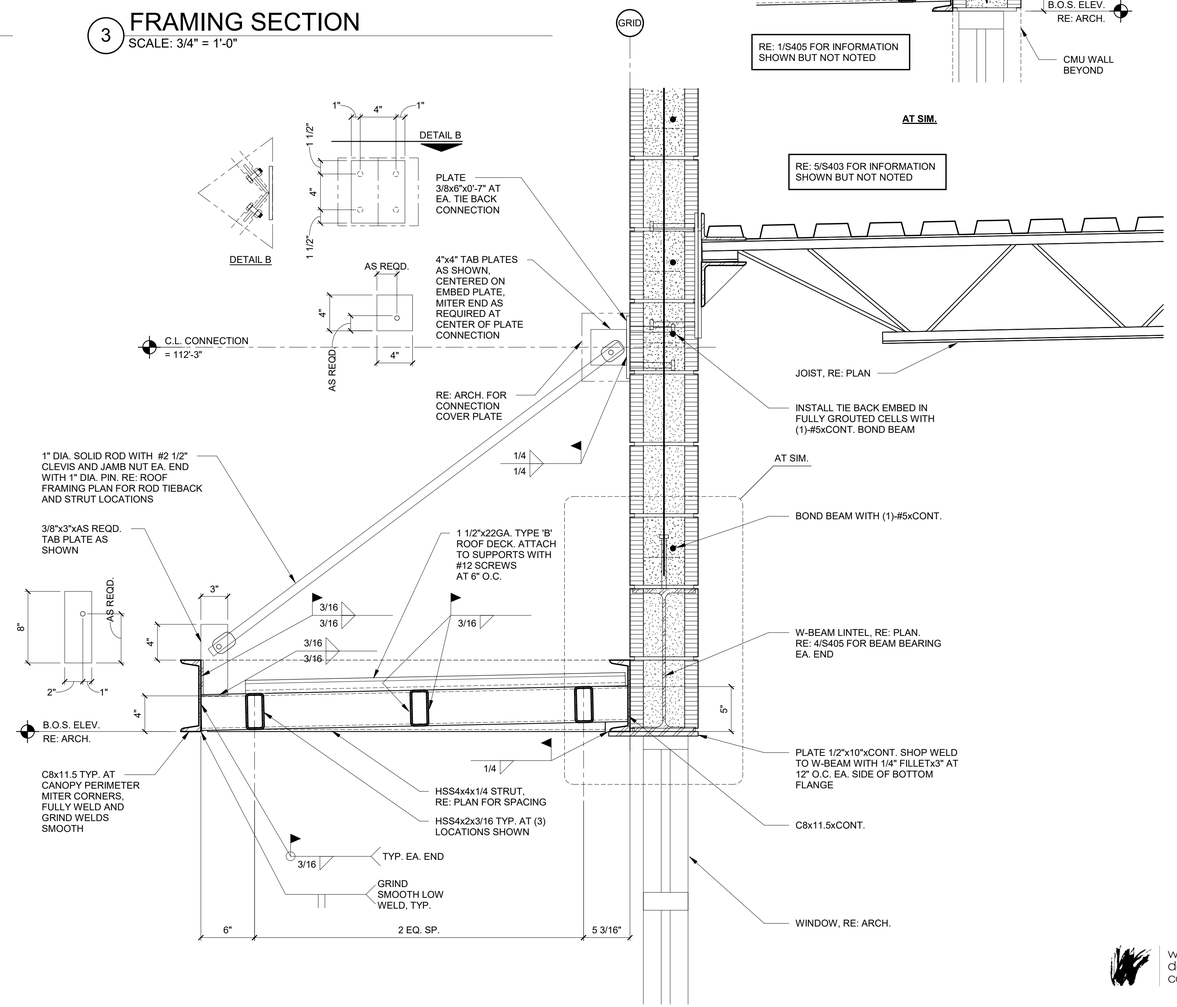

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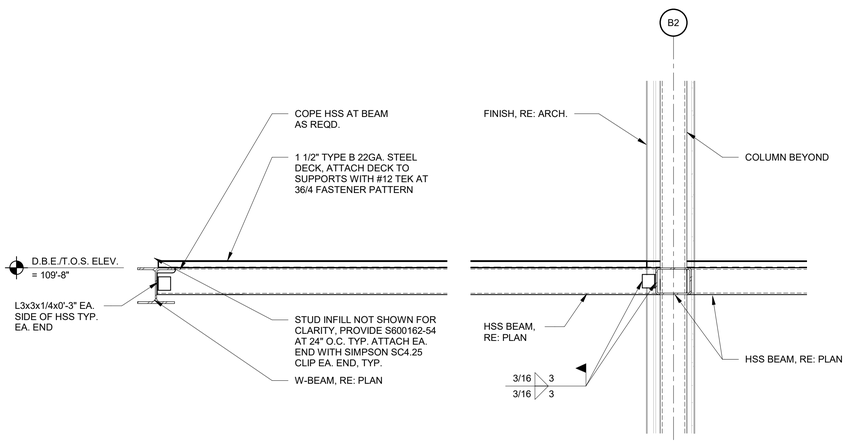

2 FRAMING SECTION
SCALE: 3/4" = 1'-0"

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PROJECT NUMBER
M31114
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SHEET TITLE
FRAMING SECTIONS

SHEET NUMBER
S405

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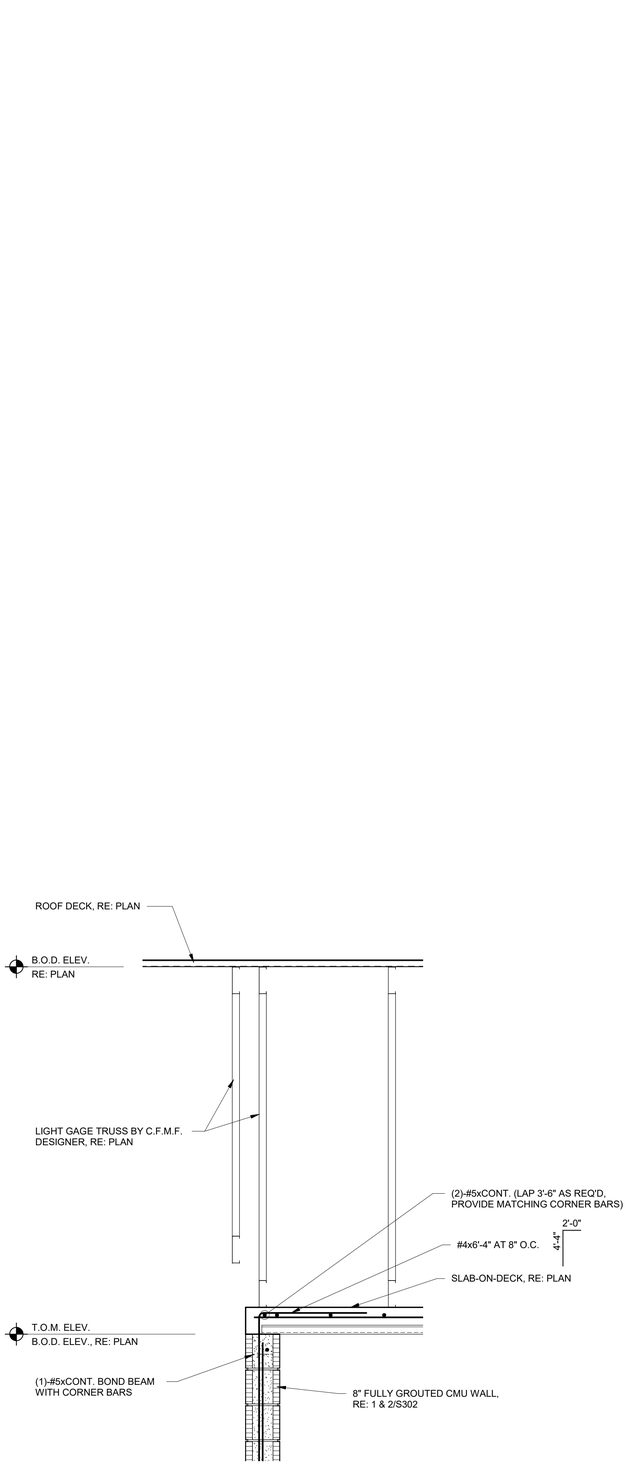

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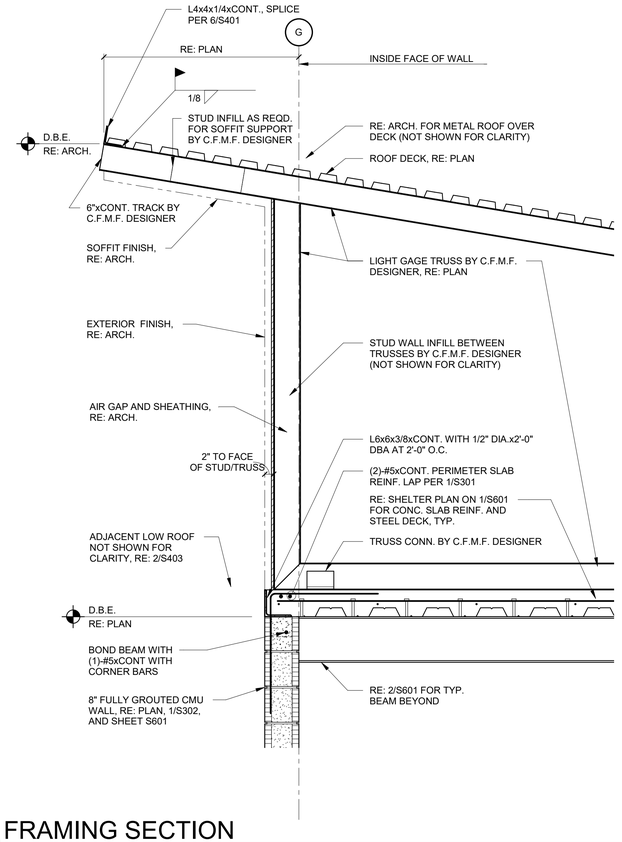

1 FRAMING SECTION
SCALE: 3/4" = 1'-0"

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1316 SW 34TH STREET,
MOORE, OK 73160

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SHEET TITLE
FRAMING
DETAILS

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S406

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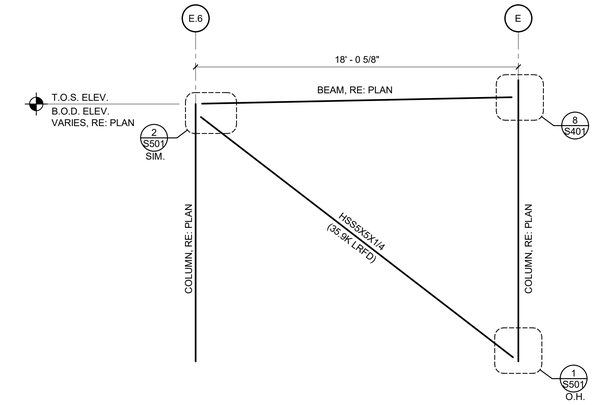

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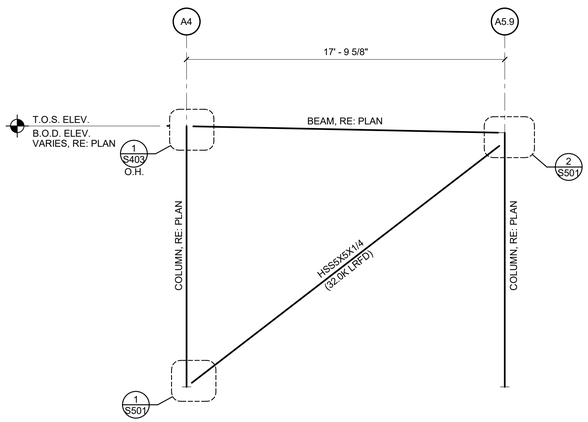

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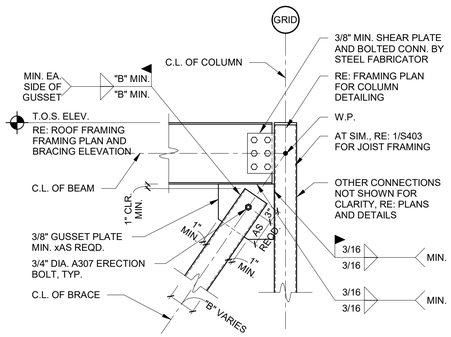

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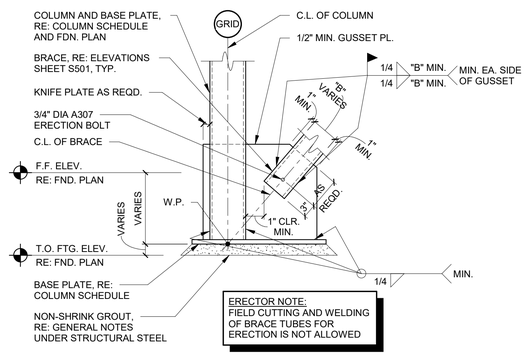

1 BRACING AT BASEPLATE
SCALE: 3/4" = 1'-0"

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FRAME ELEVATIONS AND DETAILS

SHEET NUMBER
S501

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TORNADO SAFE ROOM DESIGN PARAMETERS

1.	BUILDING CODE	2015 INTERNATIONAL BUILDING CODE
	OCCUPANCY CATEGORY	III
	GOVERNING CODE:	
	ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS	ICC/NSSA 500-2014
2.	LIVE LOADS	
	A. ROOF	100 PSF
	B. IMPACT LOAD (ROOF DEAD LOAD)	30 PSF
3.	WIND DESIGN DATA	
	A. BASIC WIND SPEED (3 SECOND GUST), V	250 MPH
	B. WIND EXPOSURE CATEGORY	C
	C. TOPOGRAPHIC Kzt	1.0
	D. DIRECTIONALITY FACTOR, Kd	1.0
	E. INTERNAL PRESSURE COEFFICIENT, GCpi	±0.55
	F. MFRS WIND PRESSURES ON PRIMARY STRUCTURE	
	1.) (WINDWARD + LEEWARD) (1.0W)	150.3 PSF
	G. DESIGN UPLIFT PRESSURES ON ROOF (Ae=85 SF)	
	1.) CORNER ZONE (1.0W)	240.7 PSF
	2.) END ZONE (1.0W)	231.1 PSF
	3.) INTERIOR ZONE (1.0W)	198.2 PSF
	H. WIDTH OF END ZONE	3.0 FT
4.	RAIN LOADS	60.0 PSF
5.	HYDROSTATIC PRESSURE LOADS	N/A
6.	EARTHQUAKE DESIGN DATA	
	A. SEISMIC IMPORTANCE FACTOR, I	1.25
	B. MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	0.276
	C. MAPPED SPECTRAL RESPONSE ACCELERATION, S1	0.077
	D. SITE CLASS	C
	E. SPECTRAL RESPONSE COEFFICIENT, Sds	0.221
	F. SPECTRAL RESPONSE COEFFICIENT, Sd1	0.087
	G. SEISMIC DESIGN CATEGORY	B
	H. STRUCTURAL SYSTEM	
	1.) BASIC SEISMIC FORCE-RESISTING SYSTEM	BEARING WALL SYSTEMS
	2.) VERTICAL ELEMENT TYPE	ORDINARY REINFORCED MASONRY SHEAR WALLS
	3.) SEISMIC RESPONSE COEFFICIENT, Cs (1.0E)	0.139W
	4.) RESPONSE MODIFICATION FACTOR	2.0
	J. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

TORNADO SAFE ROOM STRUCTURAL GENERAL NOTES:

1. PRIOR TO CONSTRUCTION A PRE-CONSTRUCTUION MEETING SHALL BE HELD WITH THE ARCHITECT, ENGINEER OF RECORD, GENERAL CONTRACTOR, THE FOREMEN FROM EACH RELATED SUB-CONTRACTOR, AND AWARDED TESTING AGENCY. THE AGENDA IS TO INCLUDE A DISCUSSION OF SAFE ROOM CONSTRUCTION QUALITY ASSURANCE PLAN IN ACCORDANCE WITH ICC 500-2014 SECTION 107.3.1 AND 107.3.2.
2. IN ACCORDANCE WITH SECTION 107.3.3 OF THE ICC 500-2014 , CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF THE SAFE ROOM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, ENGINEER OF RECORD, AND OWNER PRIOR TO THE COMMENCEMENT OF WORK.
3. IN ACCORDANCE ICC 500-2014 SECTION SECTION 107.3.3, CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF THE STORM SHELTER SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY, FOR REVIEW, TO THE AUTHORITY HAVING JURISDICTION, ENGINEER OF RECORD, AND OWNER PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN:
   1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIALREQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
   3. PROCEDURES FOR EXERCICING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATIONS, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
   4. INDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
4. DURING CONSTRUCTION OF THE SAFE ROOM, THE OWNER SHALL EMPLOY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OKLAHOMA TO CONDUCT VISUAL OBSERVATIONS OF THE CONSTRUCTION OF STRUCTURAL SYSTEMS FOR CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE CONSTRUCTION OF STRUCTURAL SYSTEMS. THE REGISTERED DESIGN ENGINEER WHO MADE THE STRUCTURAL OBSERVATIONS SHALL SUBMIT A WRITTEN LETTER STATING THE SITE VISITS HAVE BEEN MADE AND REPORTING ALL OUTSTANDING DEFICIENCIES PER ICC/NSS 500-2014 SECTION 106.4. SIGNIFICANT STAGES OF CONSTRUCTION ARE AS FOLLOWS:

A. INSTALLATION OF FOUNDATION REINFORCING PRIOR TO POURING OF CONCRETE.
B. INSTALLATION OF CMU REINFORCING PRIOR TO ANY GROUT POUR ABOVE GRADE OBSERVATION IS REQUIRED AT EACH LIFT PRIOR TO ANY GROUT POUR.
C. PLACEMENT OF BEAM BEARING EMBED PLATES PRIOR TO GROUTING.
D. BEAM WELDING AT BEARING EMBED PLATES PRIOR TO PLACEMENT OF THE METAL DECK.
E. METAL DECK FASTENING, H.S.A. INSTALLATION AND DECK SLAB REINFORCING PRIOR TO POURING CONCRETE.

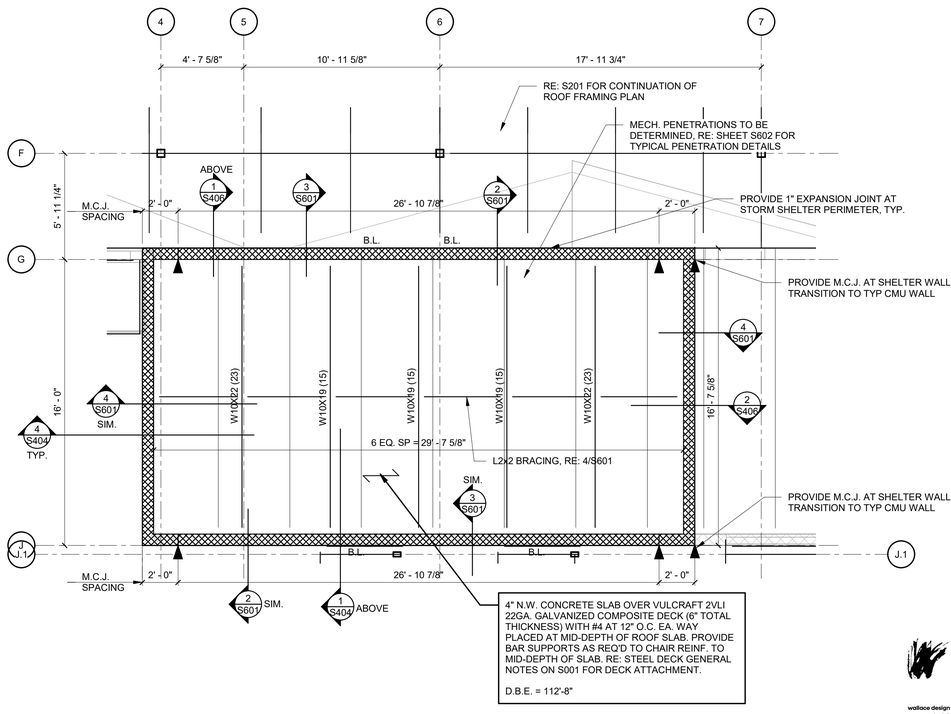
REINFORCING OBSERVATIONS ARE TO REVIEW ITEMS LISTED HEREIN BUT ARE NOT LIMITED TO: REINFORCMENT SIZES AND QUANTITIES, REINFORCING LAP LENGTHS AND LOCATIONS, BAR POSITIONERS AND PROPER BAR LOCATIONS INCLUDING JAMB REINFORCING.

STRUCTURAL OBSERVATIONS ARE IN ADDITIONAL TO SPECIAL INSPECTIONS CONDUCTED BY THE AWARDED TESTING AGENCY. STRUCTURAL OBSERVATIONS DO NOT SERVE AS OR ELIMINATE THE REQUIREMENT FOR SPECIAL INSPECTIONS AS SUMMARIZED IN THE GENERAL NOTES AND REQUIRED BY IBC 2015.

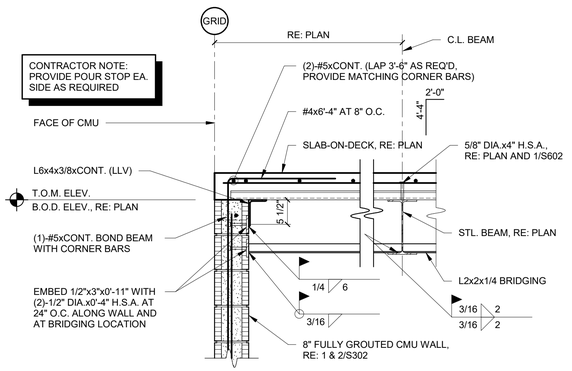
5. ALL OPENINGS IN ROOF AND WALLS ARE PROTECTED BY STEEL SHROUDS OR CONRETE BARRIERS THAT MEET THE WIND PRESSURE AND PROJECTILE REQUIREMENTS OF THE ICC 500-2014.

SAFE ROOM PLAN NOTES:

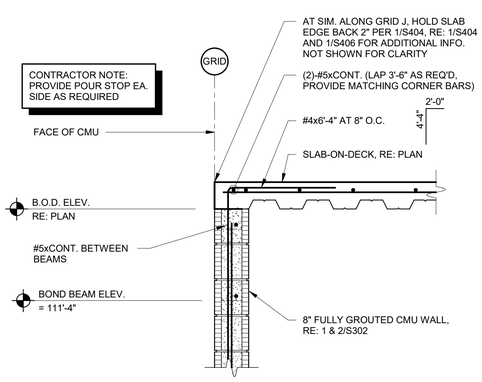
1. VERIFY ALL OPENINGS AND INTERIOR WALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. LOCATE CMU CONTROL JOINTS AS INDICATED ON PLAN BY MCJ. RE: 1/S302 FOR ADDITIONAL INFO.
3. RE: SHEET S602 AND MECH. DWGS. FOR SHROUD ATTACHMENT IN ACCORDANCE WITH FEMA 361-2014 IN SHELTER ROOF SLAB.
4. RE: MECH. DWGS. FOR LOUVER OPENING SIZES, LOCATIONS, AND ELEVATIONS.
5. ALL 8" CMU CELLS SHALL BE FULLY GROUTED.
6. RE: 1/S602 FOR COMPOSITE BEAM FRAMING DETAIL AND NOTES.



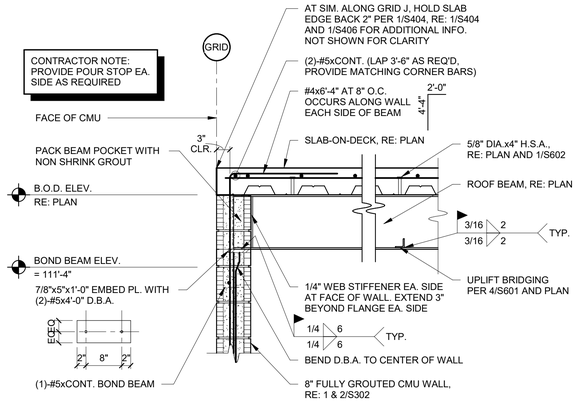
1 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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



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



2 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

MOORE ANIMAL SHELTER
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PROJECT NUMBER
M31114
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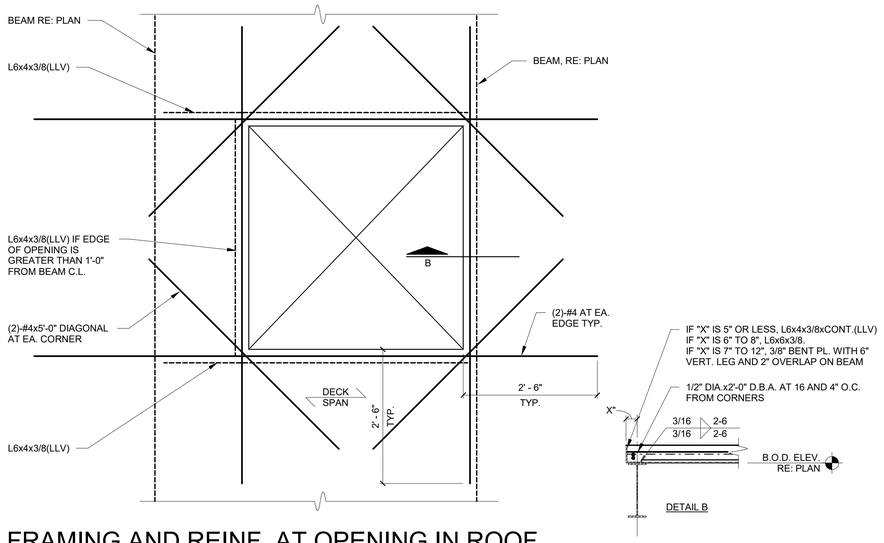
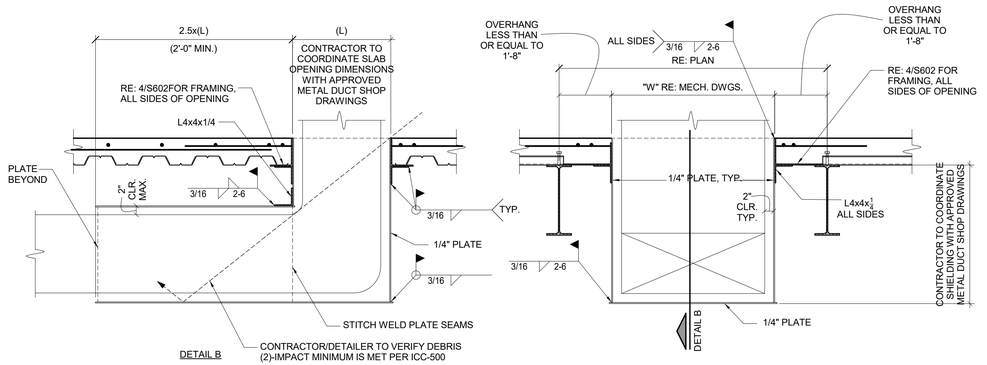
SHEET TITLE
SAFE ROOM FRAMING PLAN AND DETAILS

SHEET NUMBER
S601

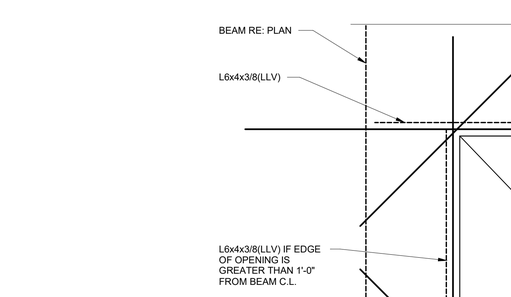
wallace design collective
wallace design collective, pc
structural · civil · landscape · survey
410 north walnut avenue, suite 200
oklahoma city, oklahoma 73104
405.236.5858 800.364.5858



4 FRAMING AND REINF. AT OPENING IN ROOF
SCALE: 3/4" = 1'-0"

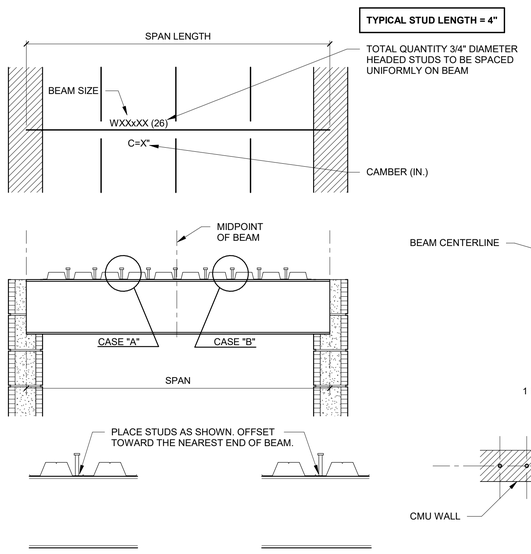


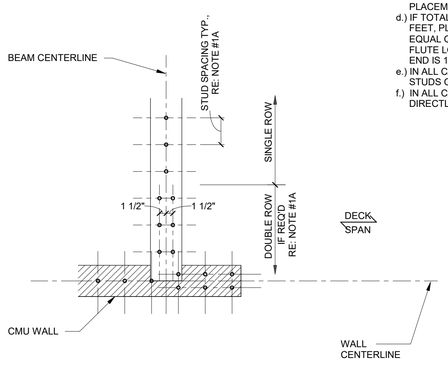
3 MEP OPENING SHIELDING DETAIL
SCALE: 3/4" = 1'-0"



ELEVATION

2 DUCT WITH CMU PENETRATION
SCALE: 3/4" = 1'-0"





DETAIL "C"

COMPOSITE FRAMING NOTES
1. STUD PLACEMENT:
   A.) FOR BEAMS WITH DECK SPAN PERPENDICULAR TO THE BEAM.
      a.) REFER TO STUD LAYOUT AND POSITIONING DIAGRAMS AT LEFT.
      b.) LAYOUT STUDS ALONG BEAM LENGTH PRIOR TO STUD ATTACHMENT.
      c.) IF TOTAL QUANTITY OF STUDS EXCEEDS SPAN LENGTH IN FEET, LAYOUT A SINGLE ROW OF STUDS AT 12" O.C. AND LAYOUT REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF BEAM AT 12" O.C. IN A DOUBLE ROW OF STUDS. CENTER DOUBLE STUD ROW ABOUT CENTERLINE OF BEAM. REFER TO DETAIL "C" FOR STUD PLACEMENT
      d.) IF TOTAL QUANTITY OF STUDS IS LESS THAN THE SPAN LENGTH IN FEET, PLACE STUDS AT 24" O.C. AND PLACE REMAINING STUDS IN EQUAL QUANTITIES FROM EACH END OF BEAM AT VACANT DECK FLUTE LOCATIONS AT 24" O.C. SUCH THAT THE STUD SPACING AT END IS 12" O.C.
      e.) IN ALL CASES, THERE SHALL BE AN EQUAL NUMBER OF SHEAR STUDS ON EACH SIDE OF THE MIDPOINT OF BEAM.
      f.) IN ALL CASES, A SINGLE ROW OF SHEAR STUDS MUST BE PLACED DIRECTLY OVER BEAM CENTERLINE.

1 COMPOSITE BEAM DIAGRAMS AND COMPOSITE FRAMING NOTES
SCALE:N.T.S.

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SHEET TITLE
SAFE ROOM DETAILS

SHEET NUMBER
S602

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oklahoma city, oklahoma 73104
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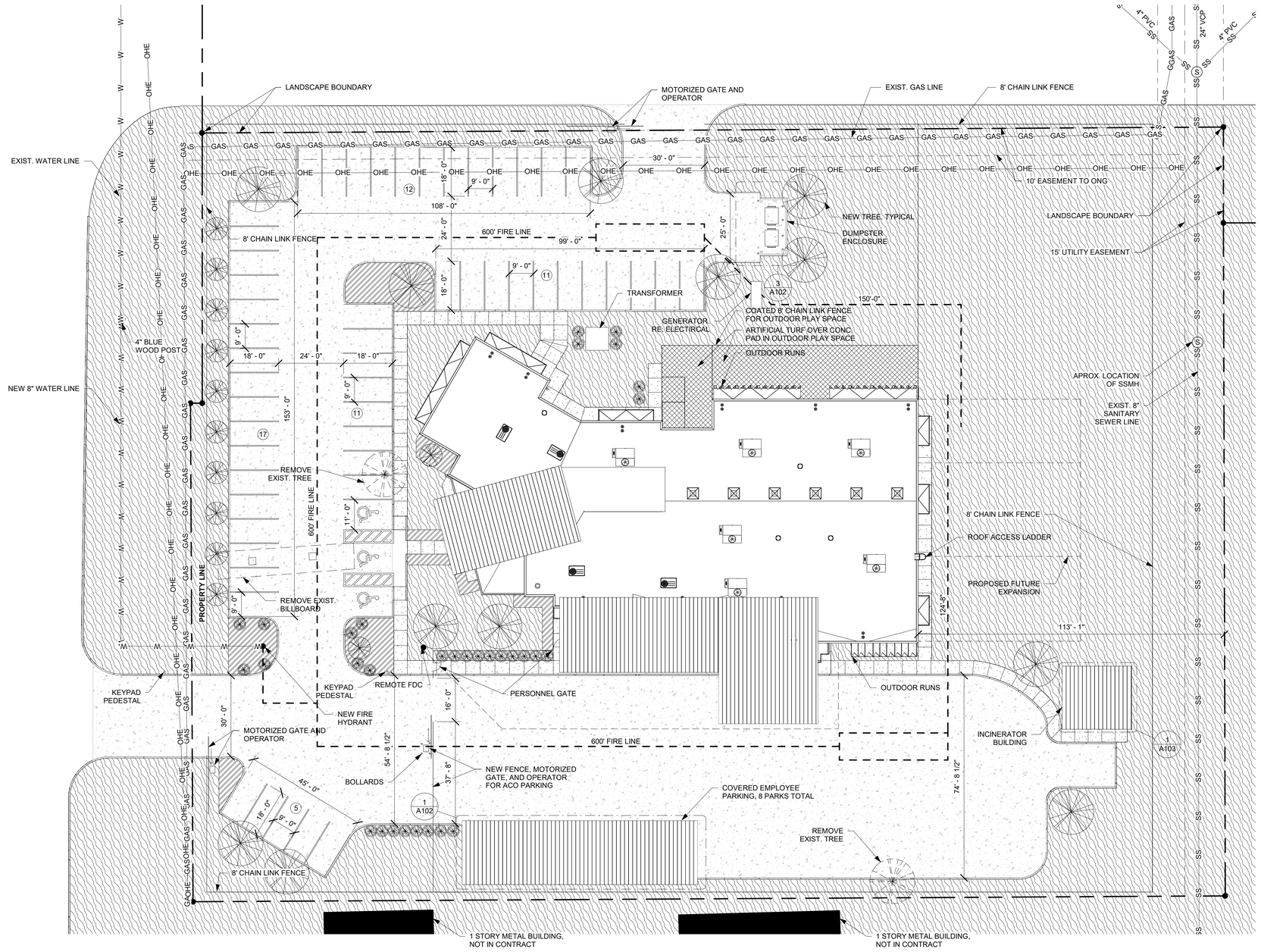

1 SITE PLAN
SCALE: 1" = 20'-0"

PARKING REQUIREMENTS: CITY OF MOORE PARKING REQUIREMENTS

CHAPTER 2, ARTICLE 3, SECTION 12-400

GROSS BUILDING SQUARE FOOTAGE:	15,253 SF
GROSS LEASABLE BUILDING SQUARE FOOTAGE:	9798 SF
1 SPACE PER 150 SF FOR THE FIRST 5,000 SF	= 34
1 SPACE PER 200 SF FOR 5,001-12,000 SF	= 24
TOTAL ACCESSIBLE PARKS REQUIRED	**= 3**
TOTAL ACCESSIBLE PARKS PROVIDED	**= 3**
TOTAL PARKS REQUIRED	**= 58**
TOTAL PARKS PROVIDED	**= 64**

LANDSCAPING NOTES

5% MIN. FOR OPEN, LANDSCAPED OR NATURAL SPACE

TOTAL AREA = 107,732 SF @ 5%	= 5,387 SF
TOTAL AREA PROVIDED	= 47,629 SF

ONE TREE AND TWO SHRUBS PER 400 SF REQUIRED

TREES REQUIRED	= 14
SHRUBS REQUIRED	= 28

ONE TREE PER 7 PARKING SPACES PROVIDED

TREES REQUIRED	= 10
TOTAL TREES REQUIRED	=24
TOTAL SHRUBS REQUIRED	=28

REFERENCE SHEET A104 FOR PLANT LIST AND SPECIES

ZONING

CURRENT CLASSIFICATION: I2, MEDIUM INDUSTRIAL DISTRICT

PROPOSED CLASSIFICATION: C3, GENERAL COMMERCIAL DISTRICT

GENERAL NOTES

1. PROVIDE SOD 10' AROUND ALL DISTURBED AREAS
2. LANDSCAPE BOUNDARY PROPERTY CORNERS/LINES ARE FOR THE PURPOSE OF LANDSCAPE CALCULATIONS ONLY.

- NEW CONC. PARKING
- NEW SIDEWALK
- GRASS
- ARTIFICIAL TURF OVER CONCRETE PAD
- LANDSCAPE PLANTER BED

MOORE ANIMAL SHELTER
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MOORE, OK 73160

STATE OF OKLAHOMA — BARRETT L. WILLIAMSON — No. 9433 — NORMAN, OKLA. — REGISTERED ARCHITECT
06/07/2022
SEAL

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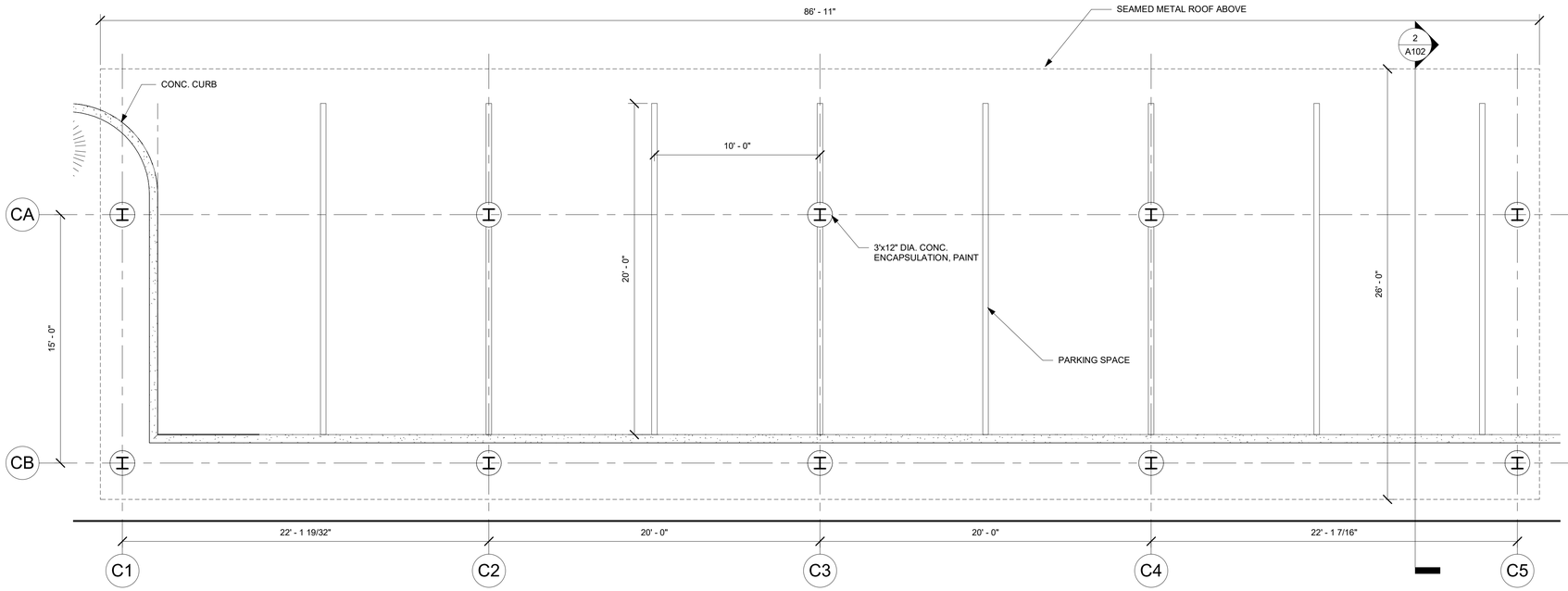
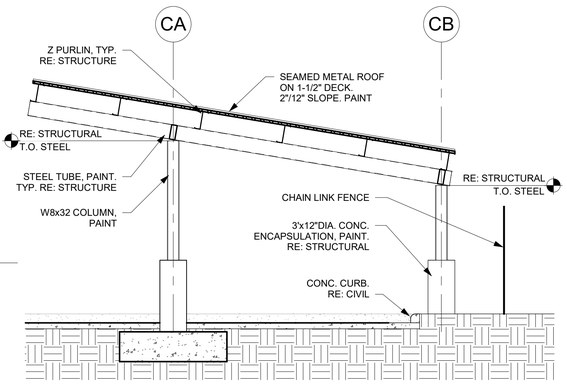
SHEET TITLE
SITE PLAN

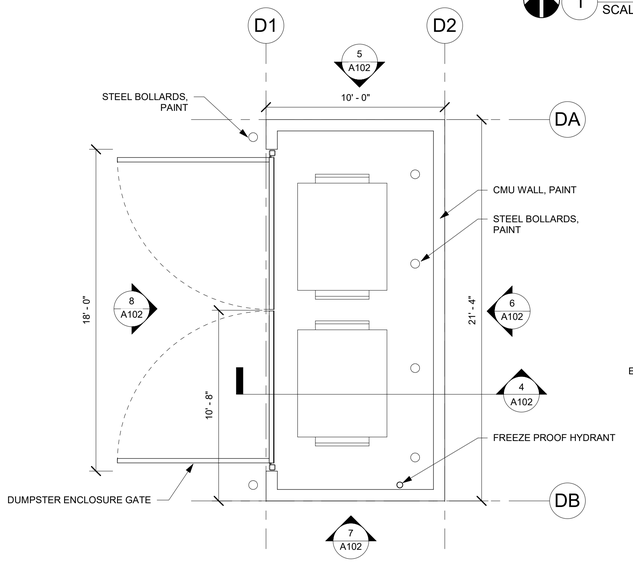
SHEET NUMBER
A101



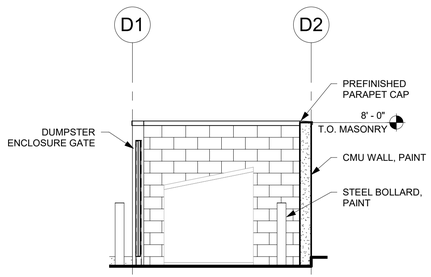
1 ENLARGED COVERED PARKING PLAN
SCALE: 1/4" = 1'-0"



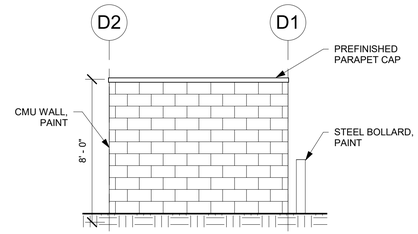
2 COVERED PARKING SECTION
SCALE: 1/4" = 1'-0"



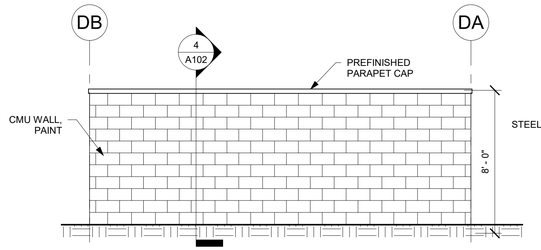
3 DUMPSTER ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



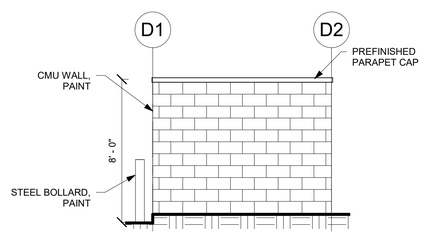
4 DUMPSTER ENCLOSURE SECTION
SCALE: 1/4" = 1'-0"



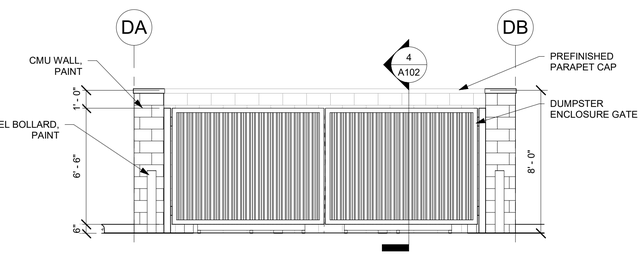
5 DUMPSTER ENCLOSURE- NORTH
SCALE: 1/4" = 1'-0"



6 DUMPSTER ENCLOSURE- EAST
SCALE: 1/4" = 1'-0"



7 DUMPSTER ENCLOSURE- SOUTH
SCALE: 1/4" = 1'-0"



8 DUMPSTER ENCLOSURE- WEST
SCALE: 1/4" = 1'-0"

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STATE OF OKLAHOMA
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PROJECT NUMBER
M31114
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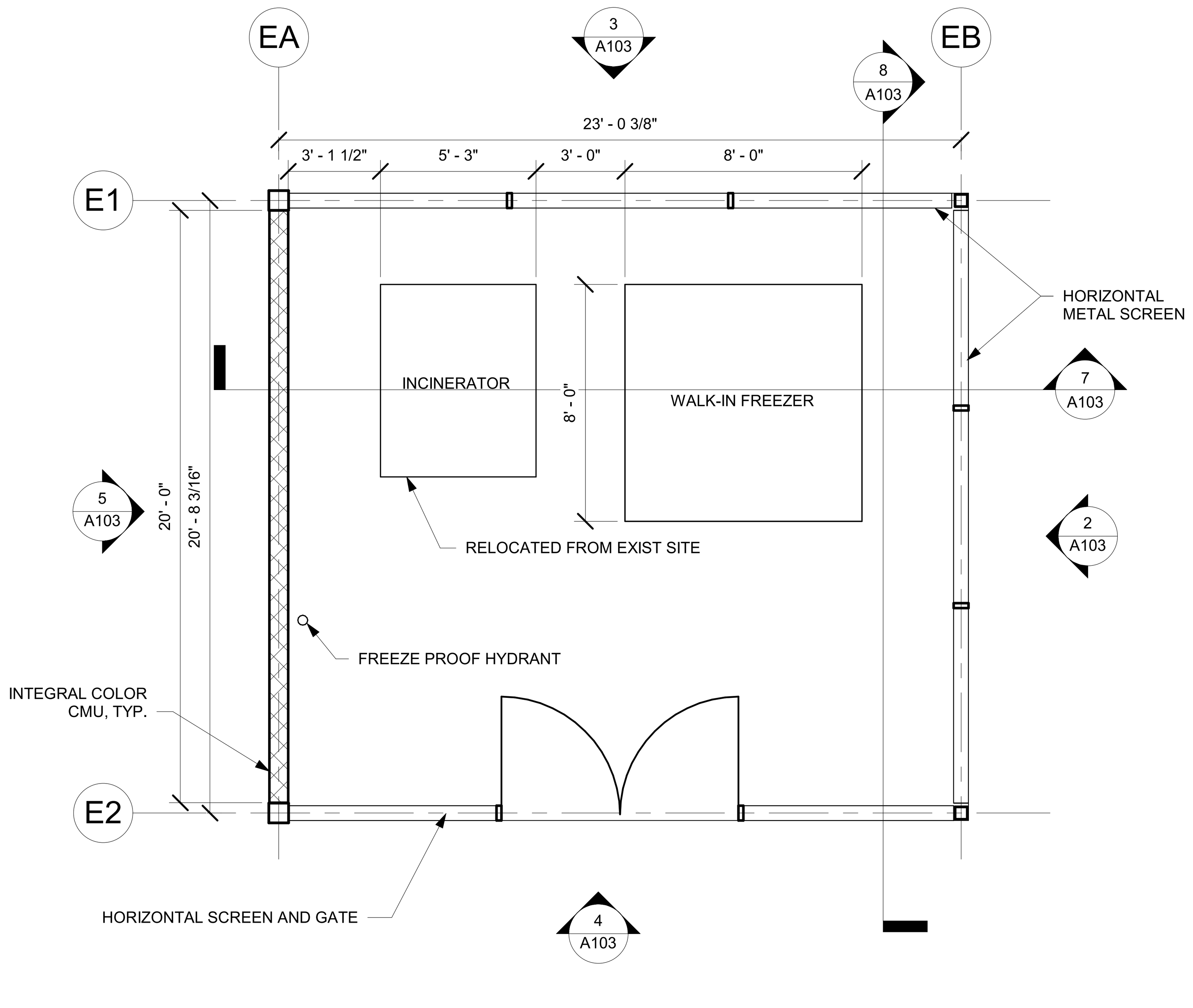
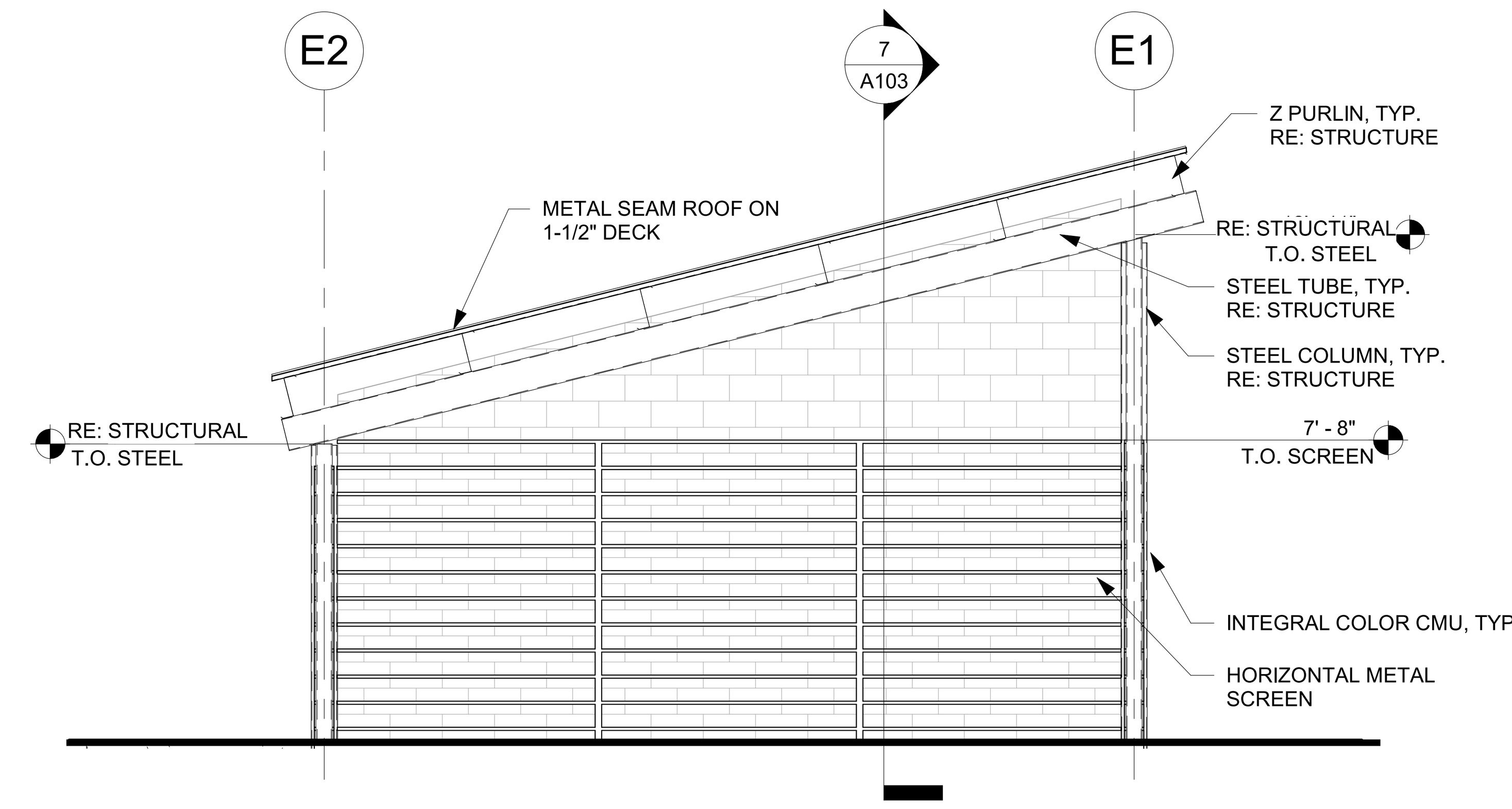
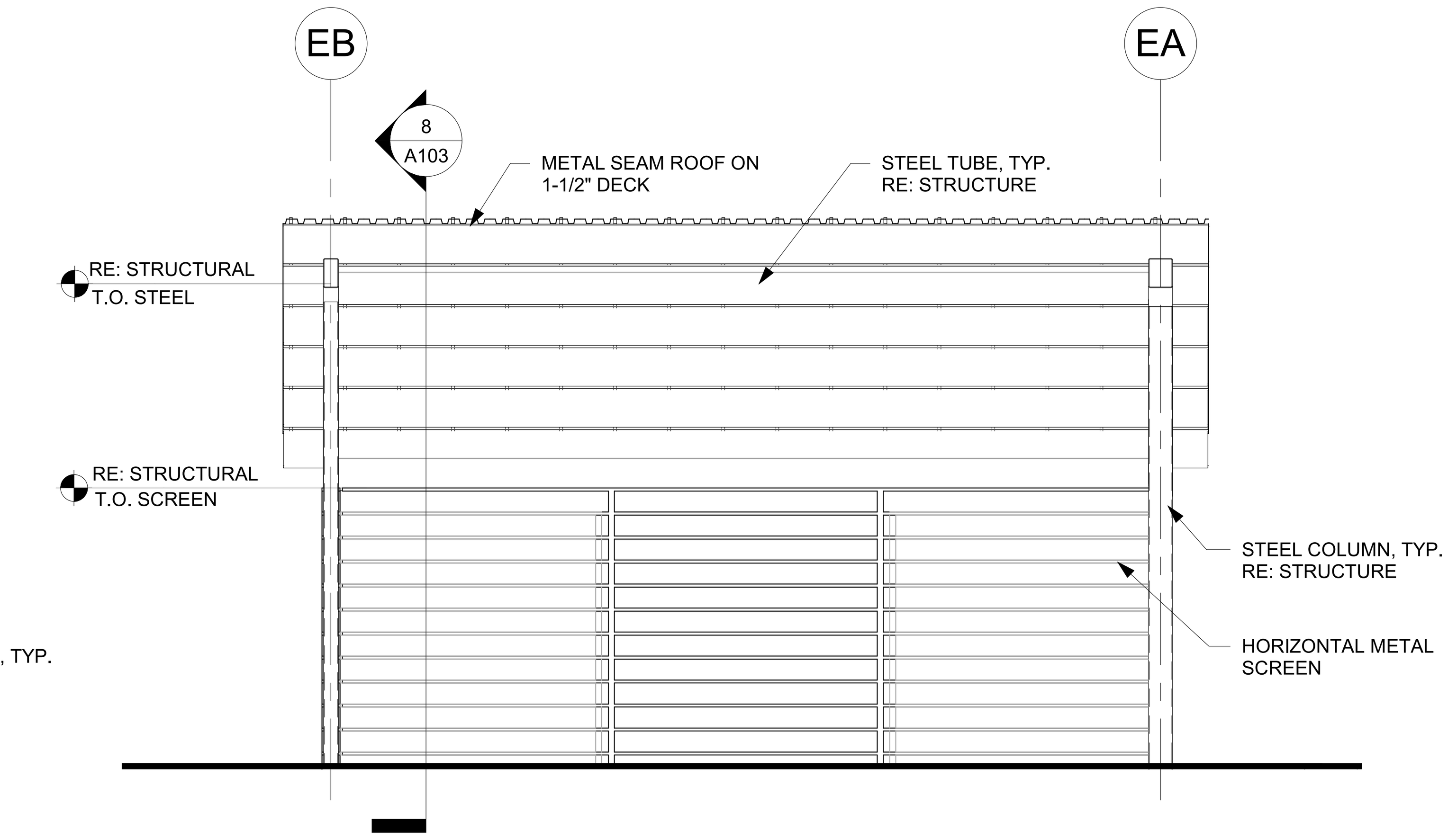
SHEET TITLE
COVERED PARKING AND DUMPSTER ENCLOSURE
SHEET NUMBER
A102



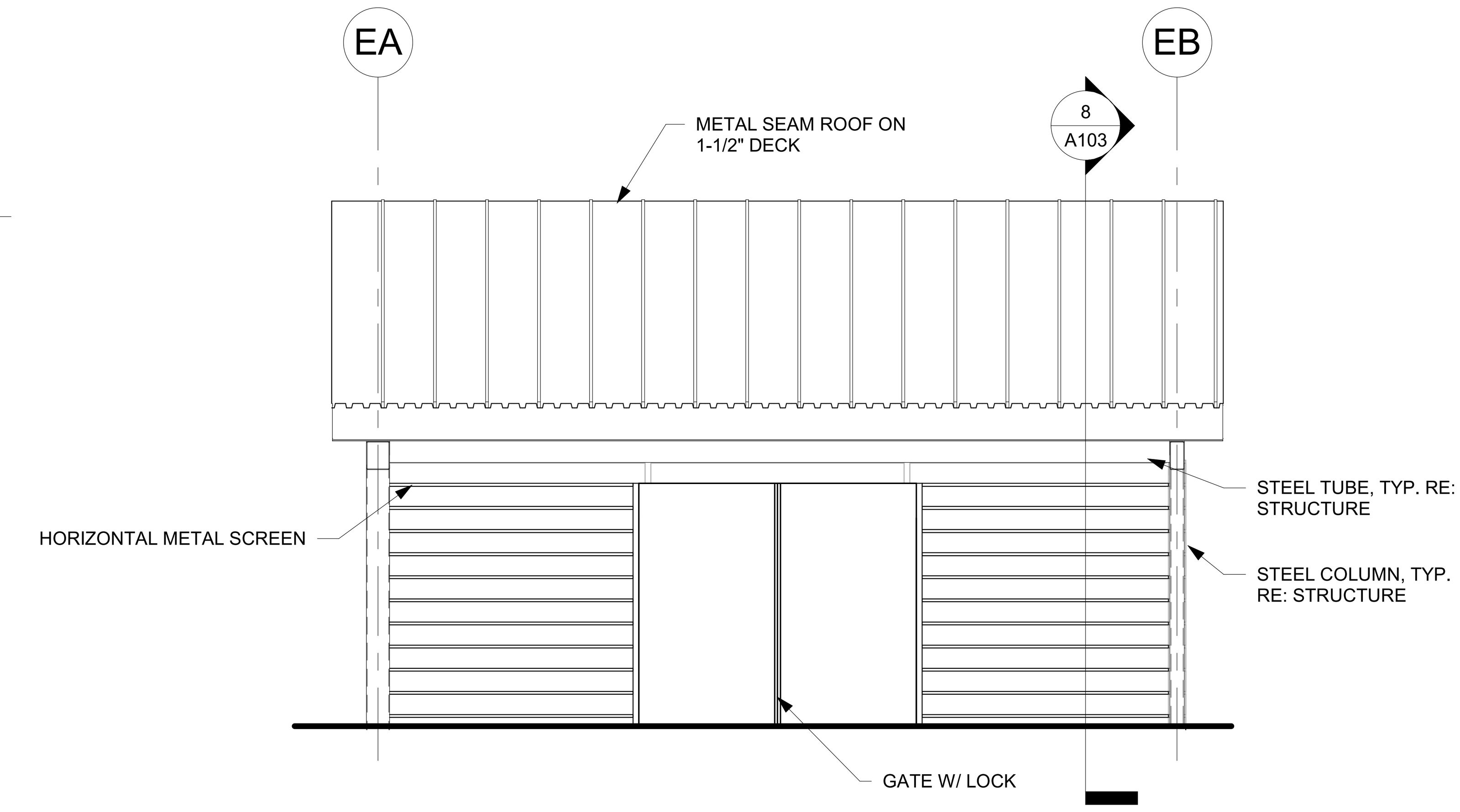
1 INCINERATOR BUILDING PLAN
SCALE: 1/4" = 1'-0"



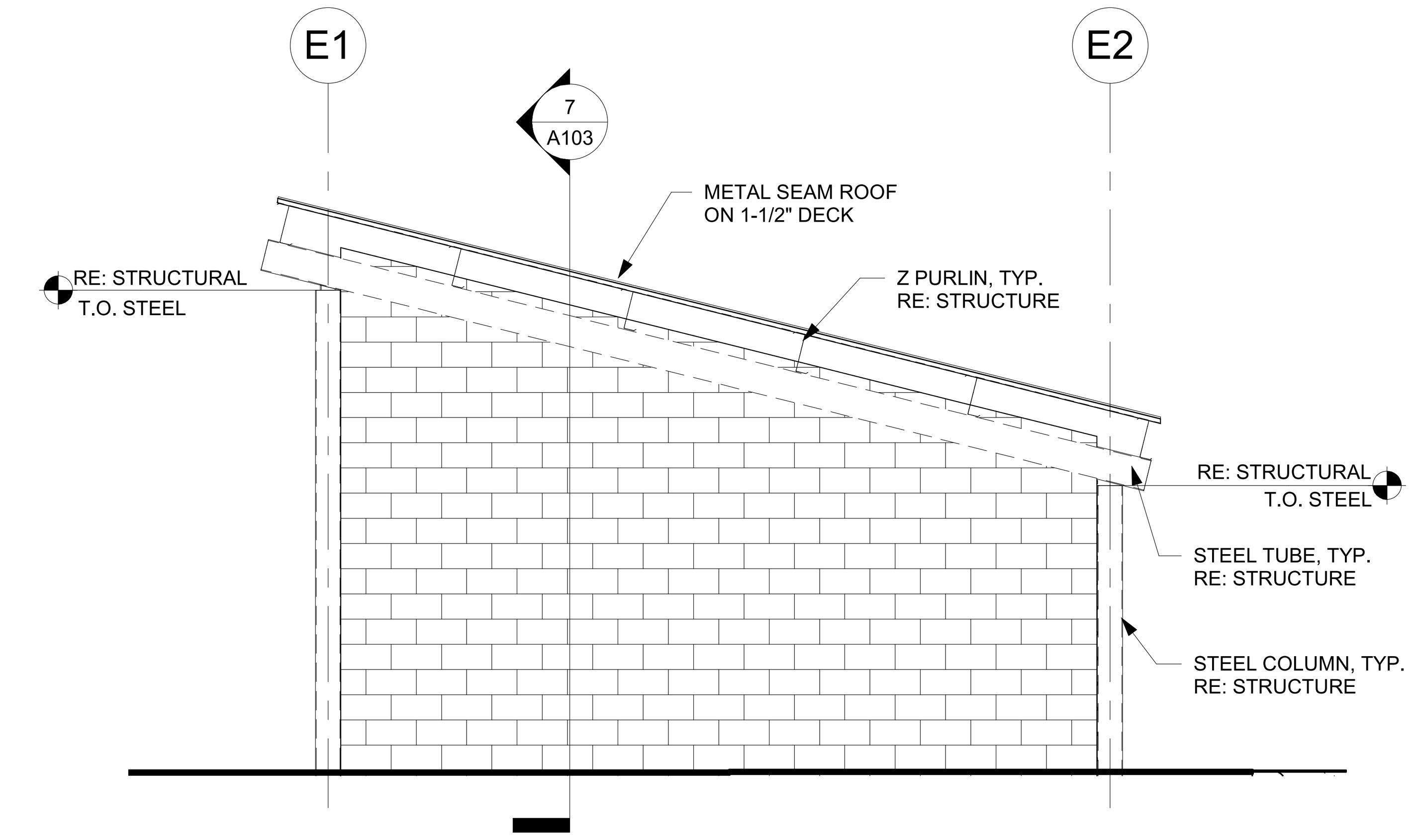
2 INCINERATOR BUILDING EAST ELEVATION
SCALE: 1/4" = 1'-0"



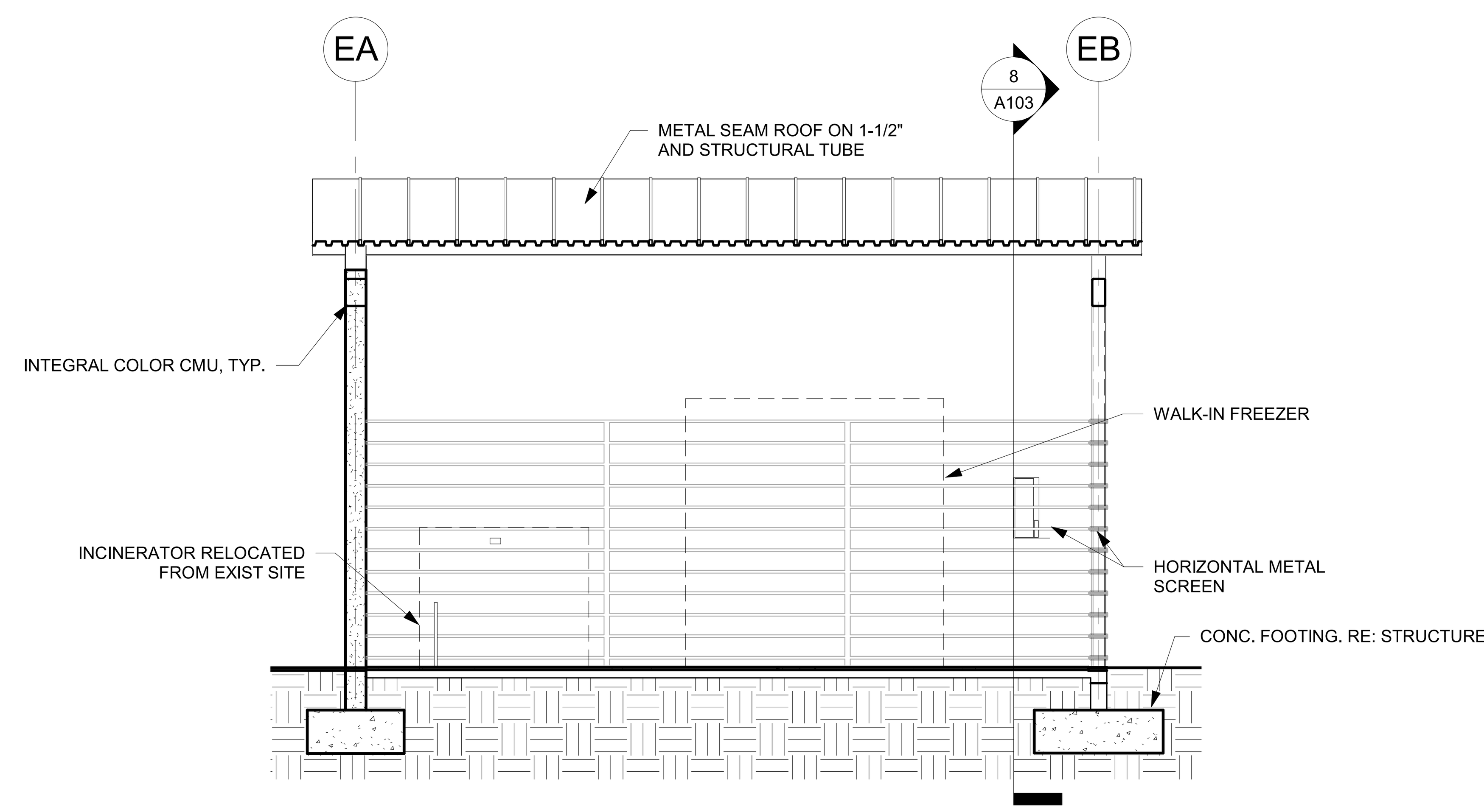
3 INCINERATOR BUILDING NORTH ELEVATION
SCALE: 1/4" = 1'-0"



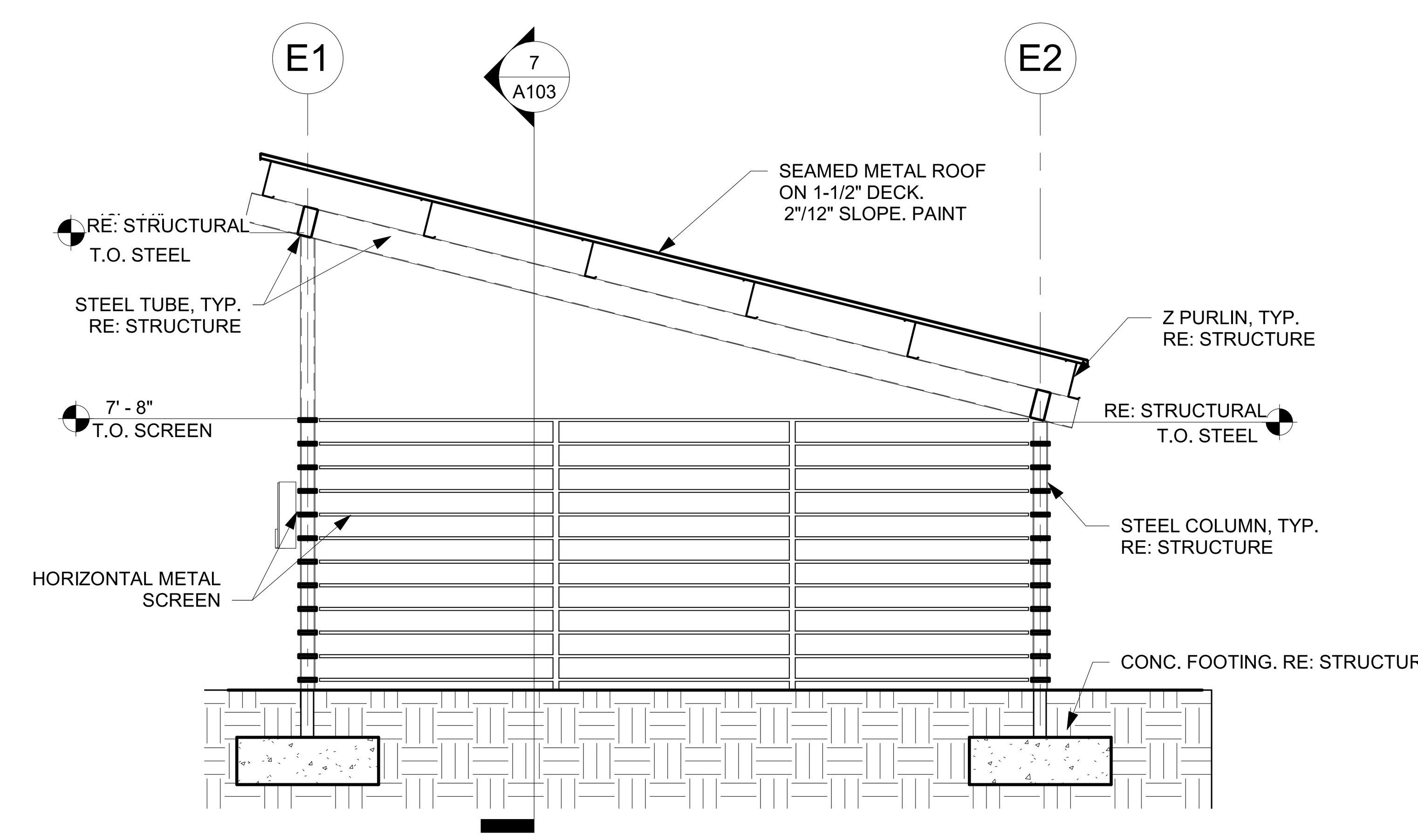
4 INCINERATOR BUILDING SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



5 INCINERATOR BUILDING WEST ELEVATION
SCALE: 1/4" = 1'-0"



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



8 INCINCERATOR BUIDLING SECTION 2
SCALE: 1/4" = 1'-0"

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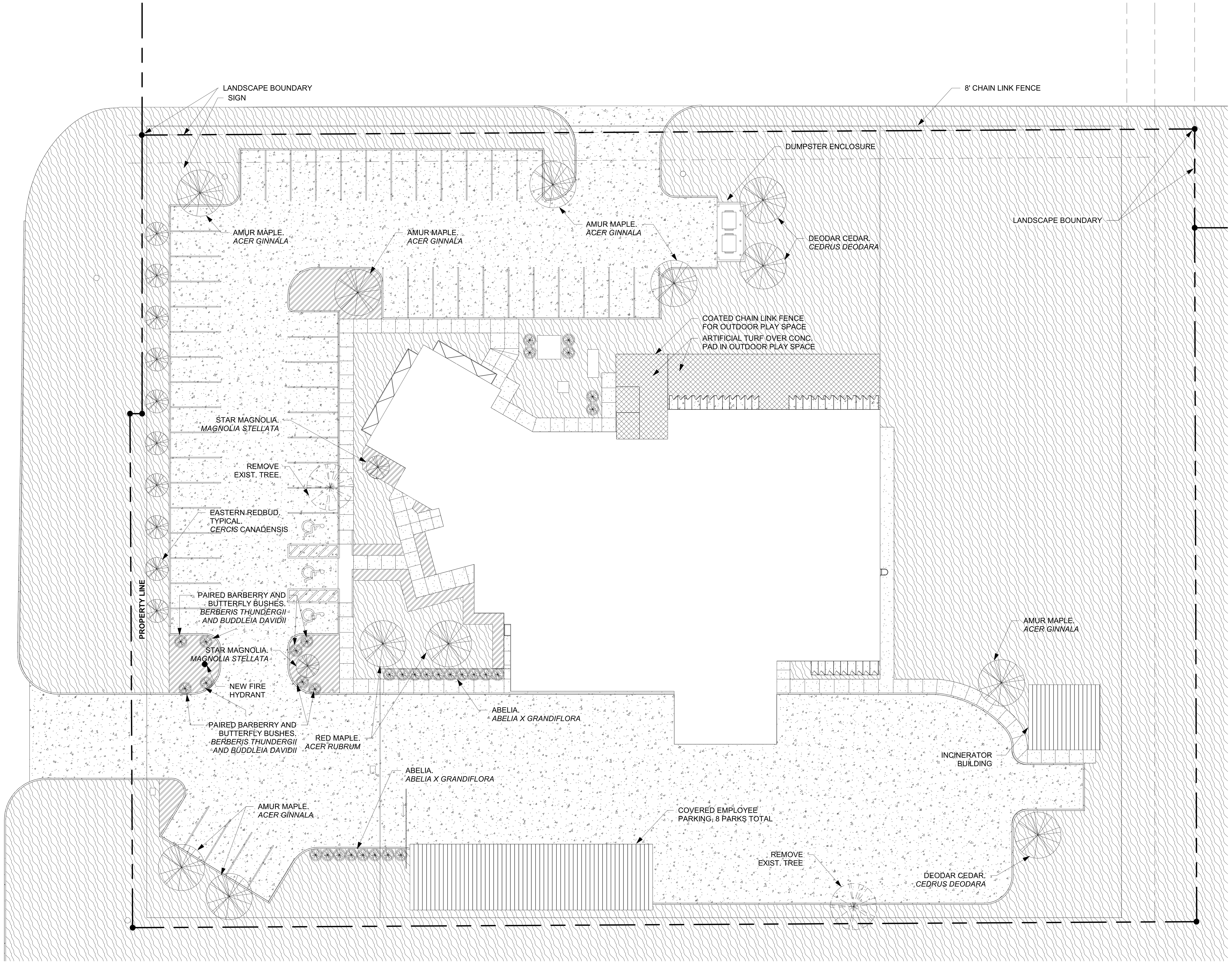
SHEET TITLE
INCINERATOR BUILDING

SHEET NUMBER
A103



LANDSCAPE LEGEND
NEW CONC. PAVING
NEW CONC. SIDEWALK
GRASS
LANDSCAPE PLANTER BED
ARTIFICIAL TURF OVER CONCRETE PAD
SHRUB
SMALL TREE
MEDIUM TREE

NOTE: PLANTING BEDS TO CONSIST OF VARYING COMBINATIONS OF:
50% ORNAMENTAL GRASSES, LIRIOPE GRASS, AND GUARA PLANTS
35% BLUE PHLOX, BLUE DAYLILIES, AND VARIOUS SLAVIA
15% CONE FLOWERS, SHASTA DAISIES, AND AUTUMN SAGE

1 LANDSCAPE PLAN
SCALE: 1" = 20'-0"

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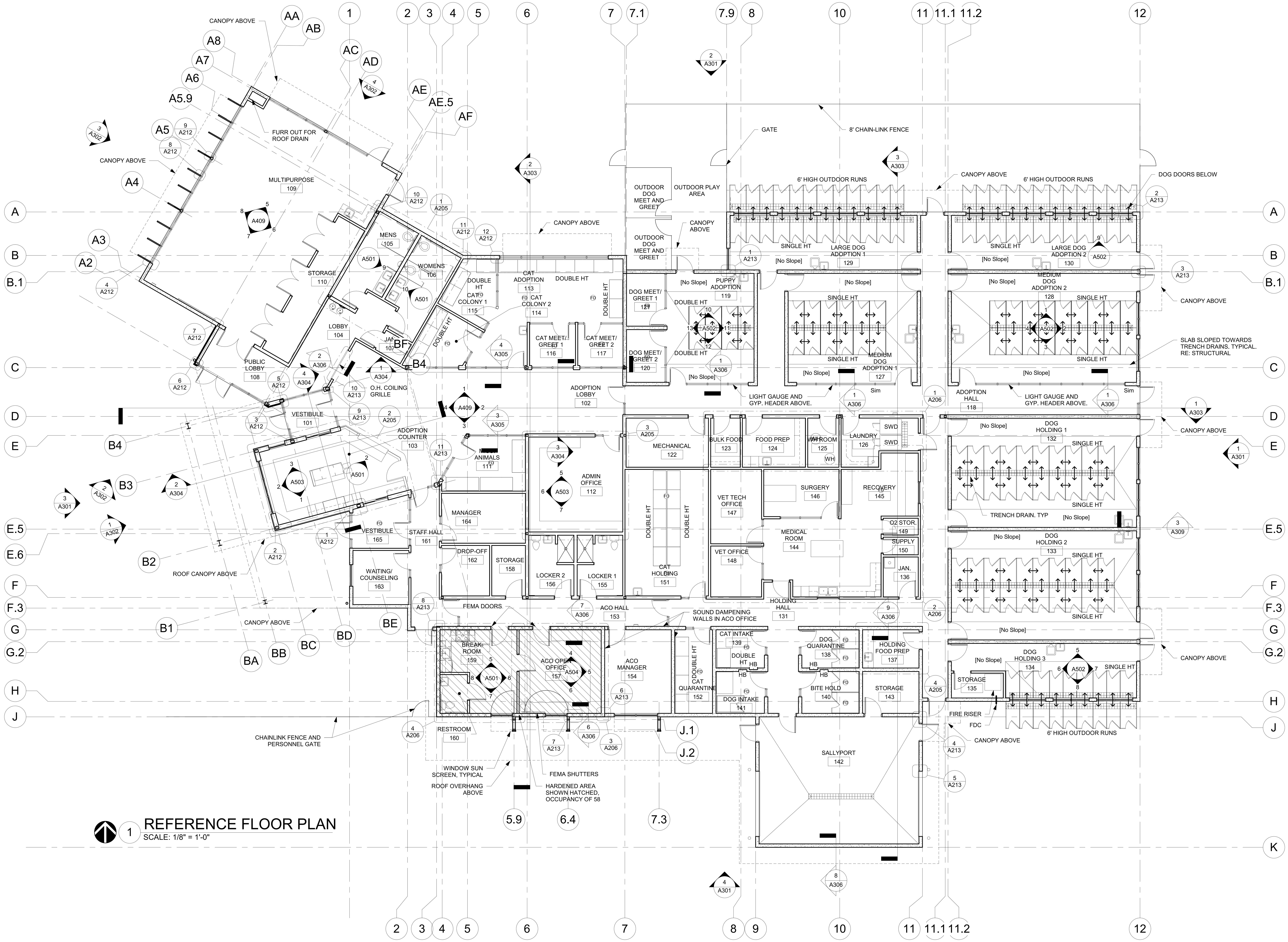
SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
A104



REFERENCE FLOOR PLAN

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

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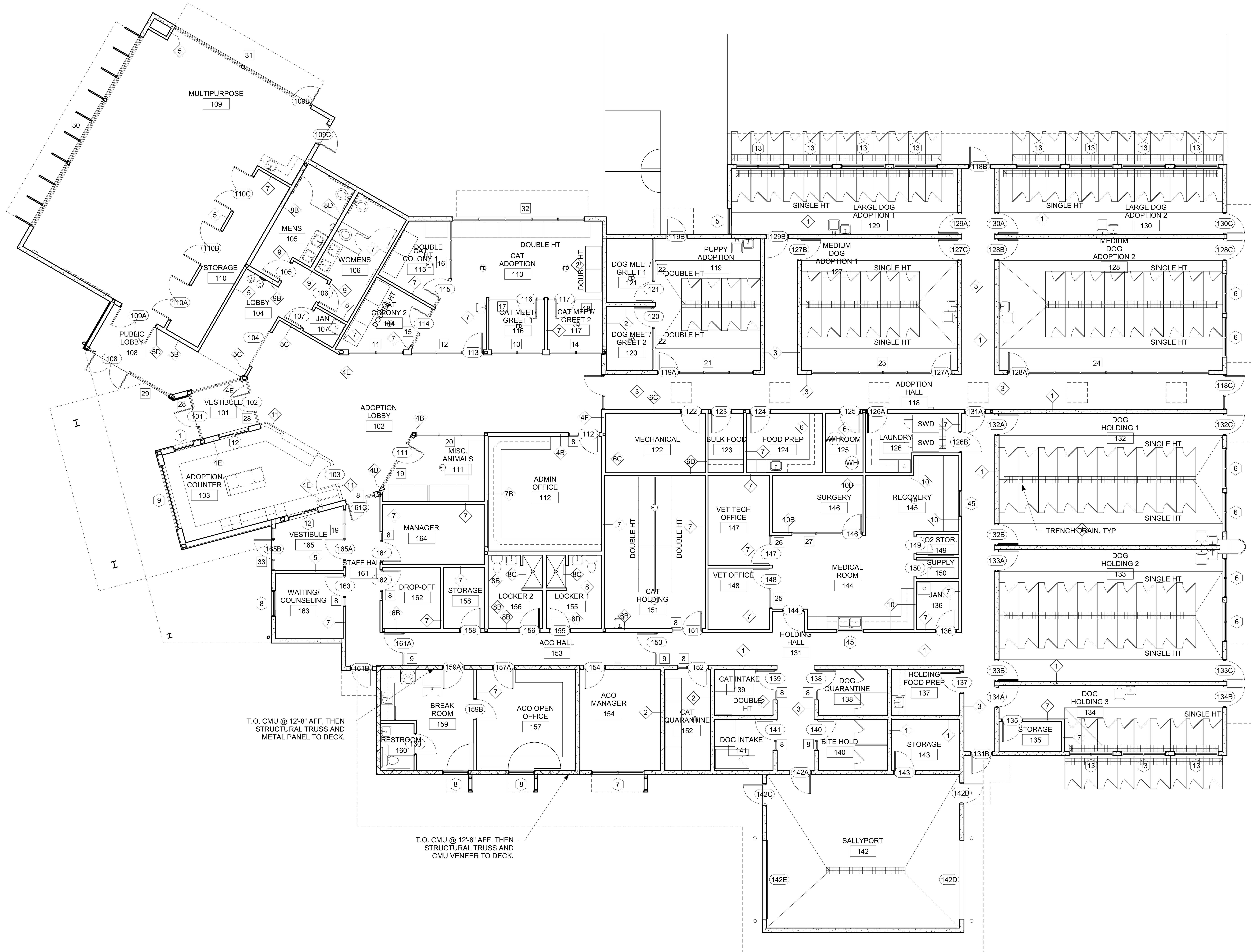
SHEET TITLE
REFERENCE PLAN

SHEET NUMBER
A201



1 DOOR, WINDOW, WALL TYPES PLAN

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

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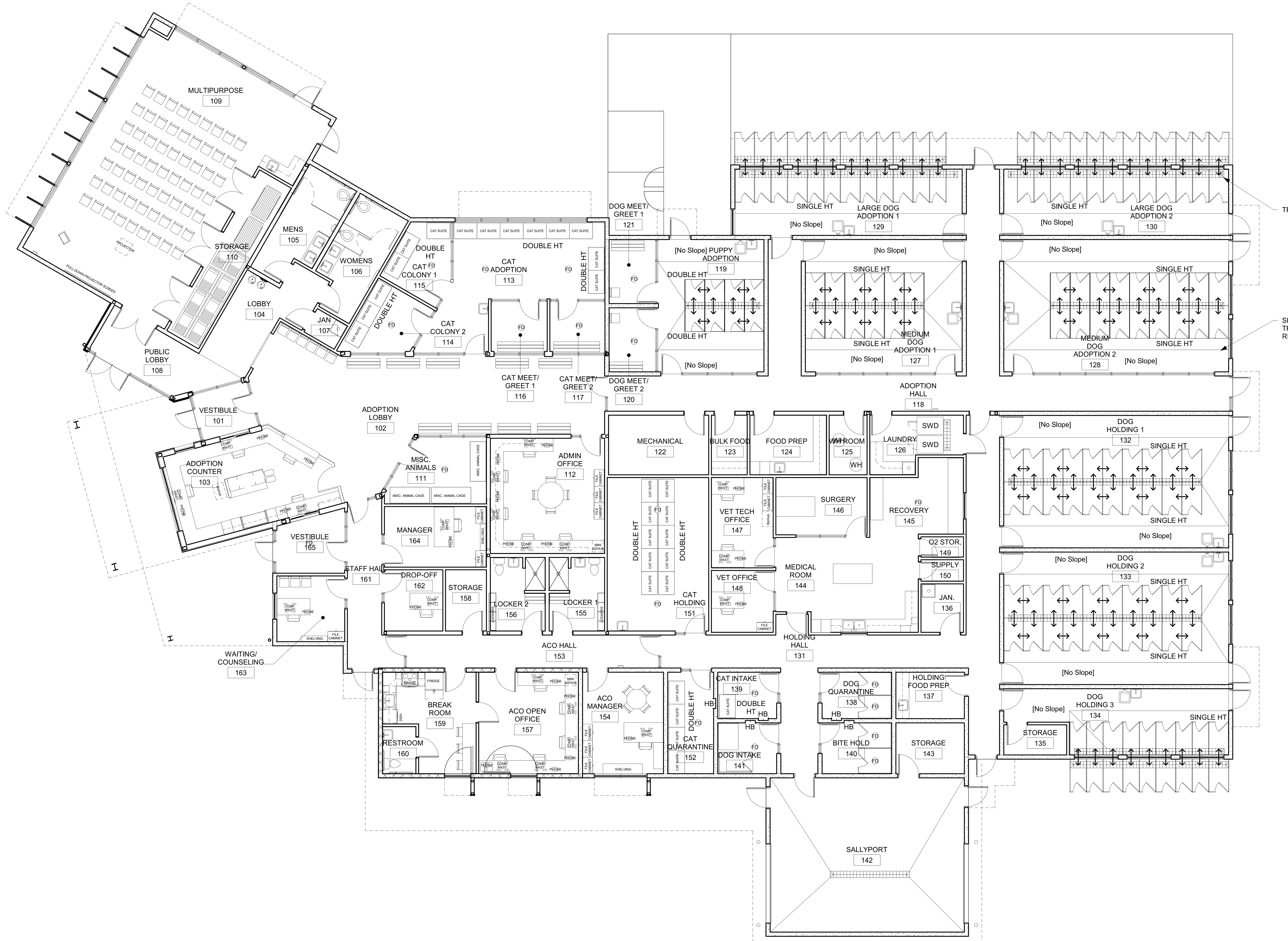
SHEET TITLE
DOOR, WINDOW, WALL TYPES PLAN

SHEET NUMBER
A202



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

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MOORE, OK 73160

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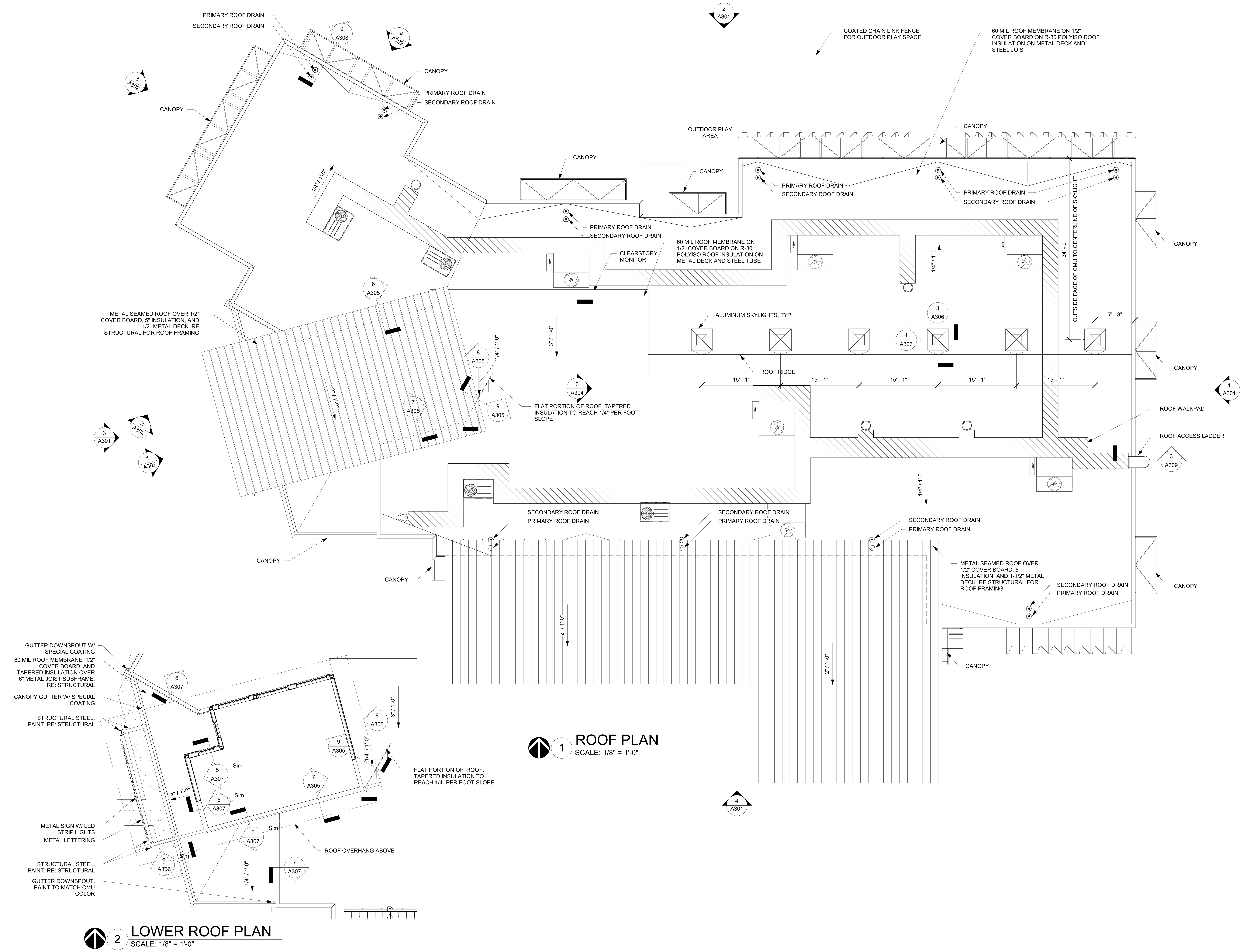
SHEET TITLE
EQUIPMENT PLAN

SHEET NUMBER
A203



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

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

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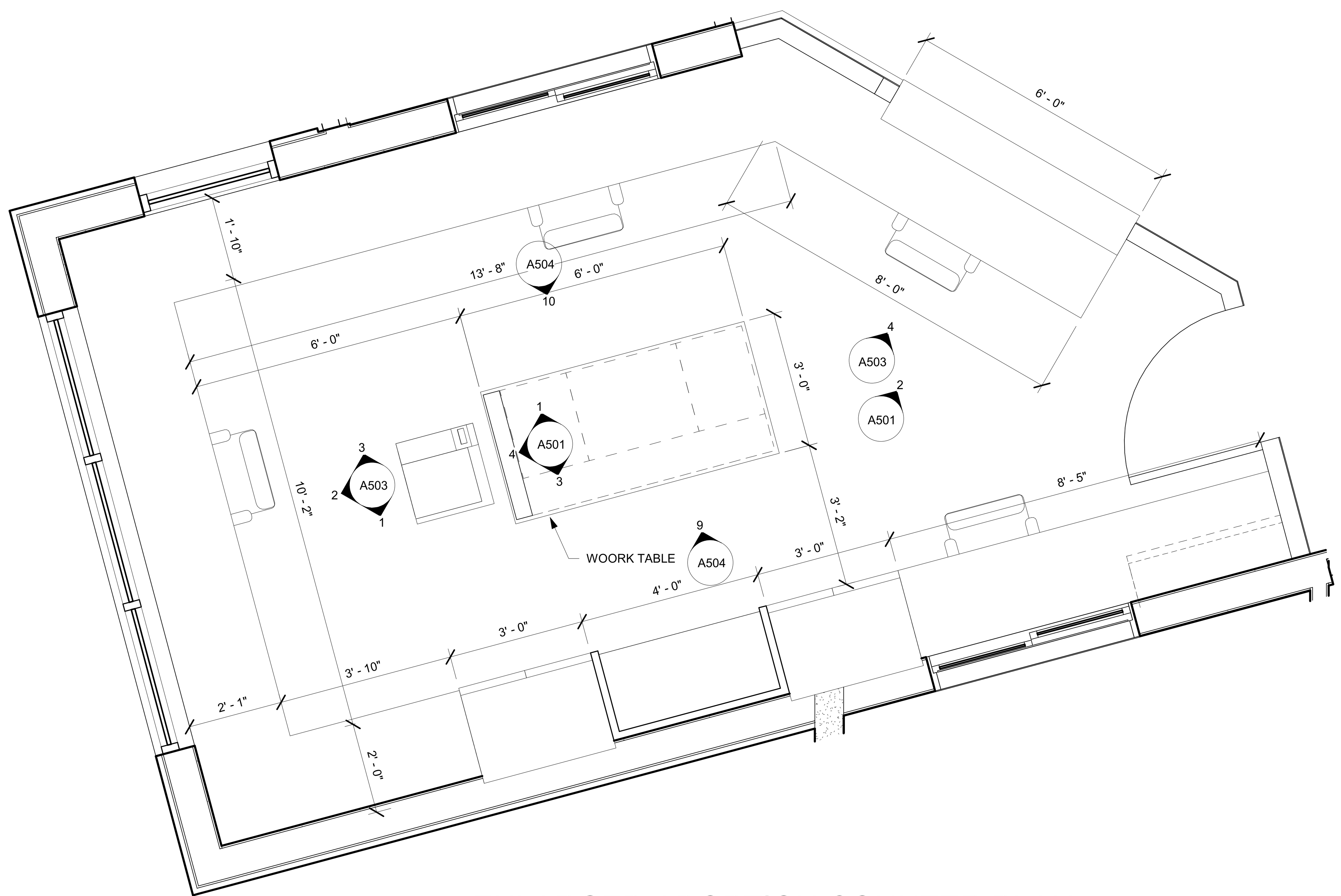
SHEET TITLE
ROOF PLAN

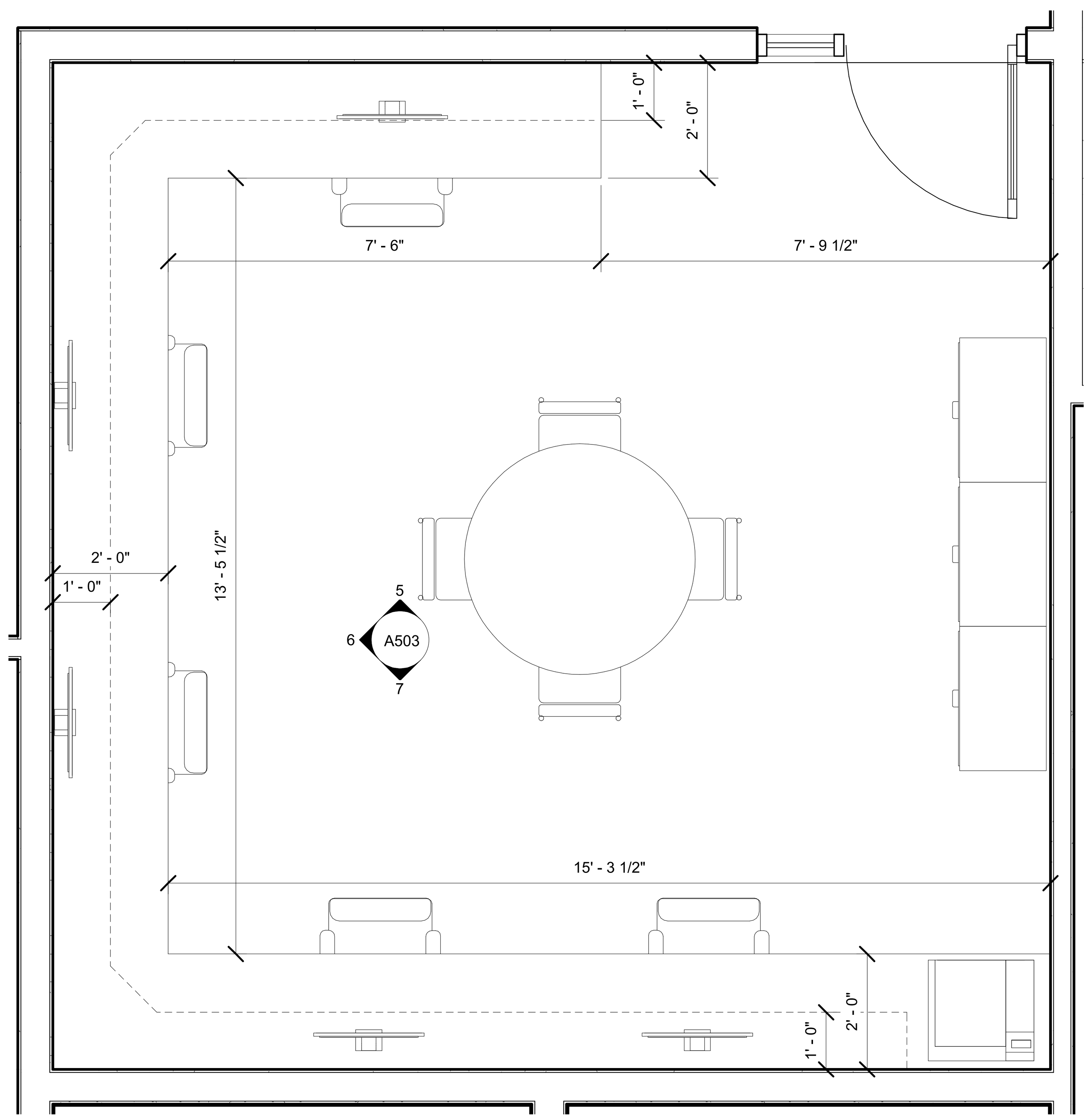
SHEET NUMBER
A204

SHEET NOTE: ALL MILLWORK, CLEARANCES, AND BATHROOM DISTANCES ARE DIMENSIONED TO THE FACE OF WALL FINISH

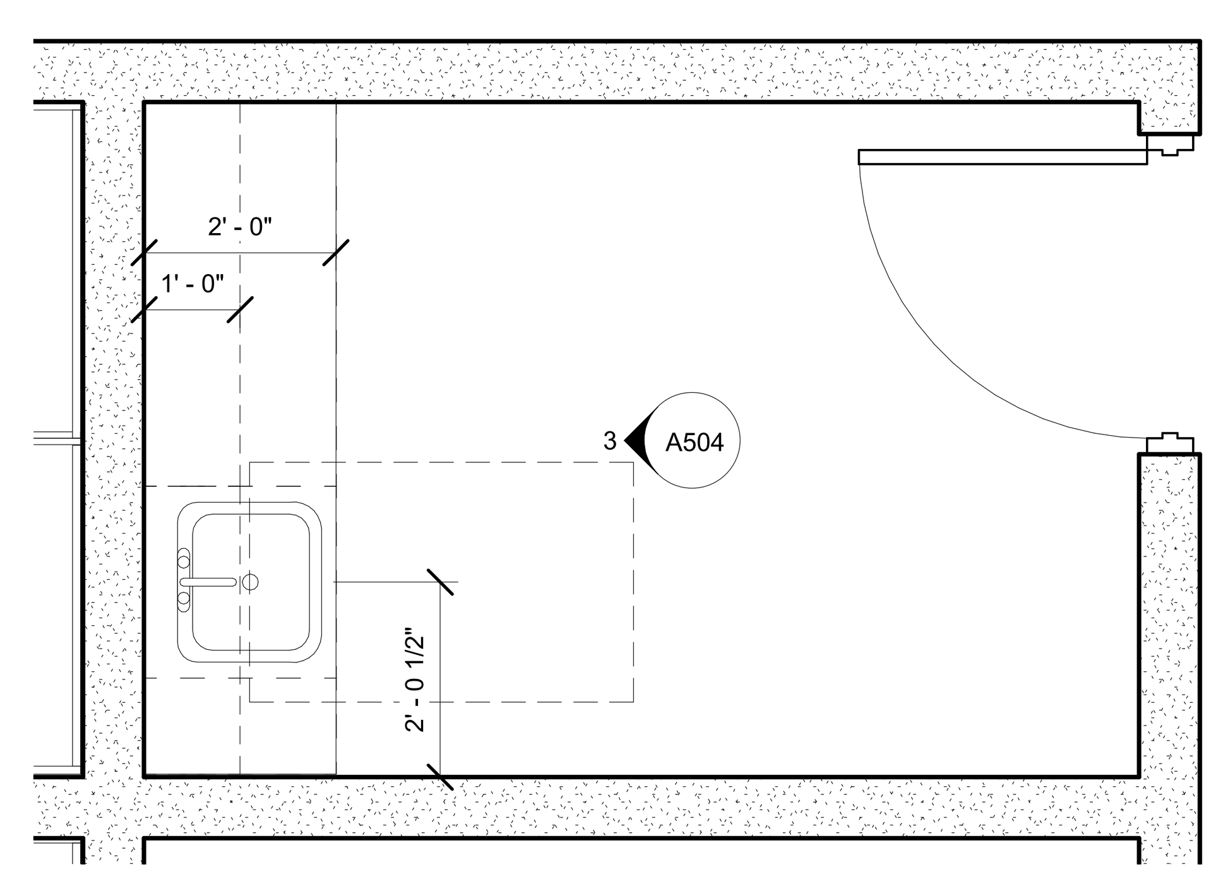


2 ENLARGED ADOPTION COUNTER PLAN
SCALE: 1/2" = 1'-0"

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



3 ENLARGED ADOPTION OFFICE PLAN
SCALE: 1/2" = 1'-0"



4 ENLARGED ACO FOOD PREP
SCALE: 1/2" = 1'-0"

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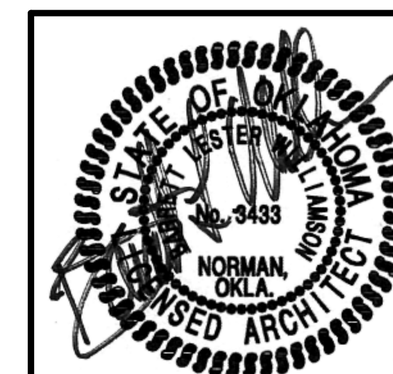
1316 SW 34TH STREET,
MOORE, OK 73160



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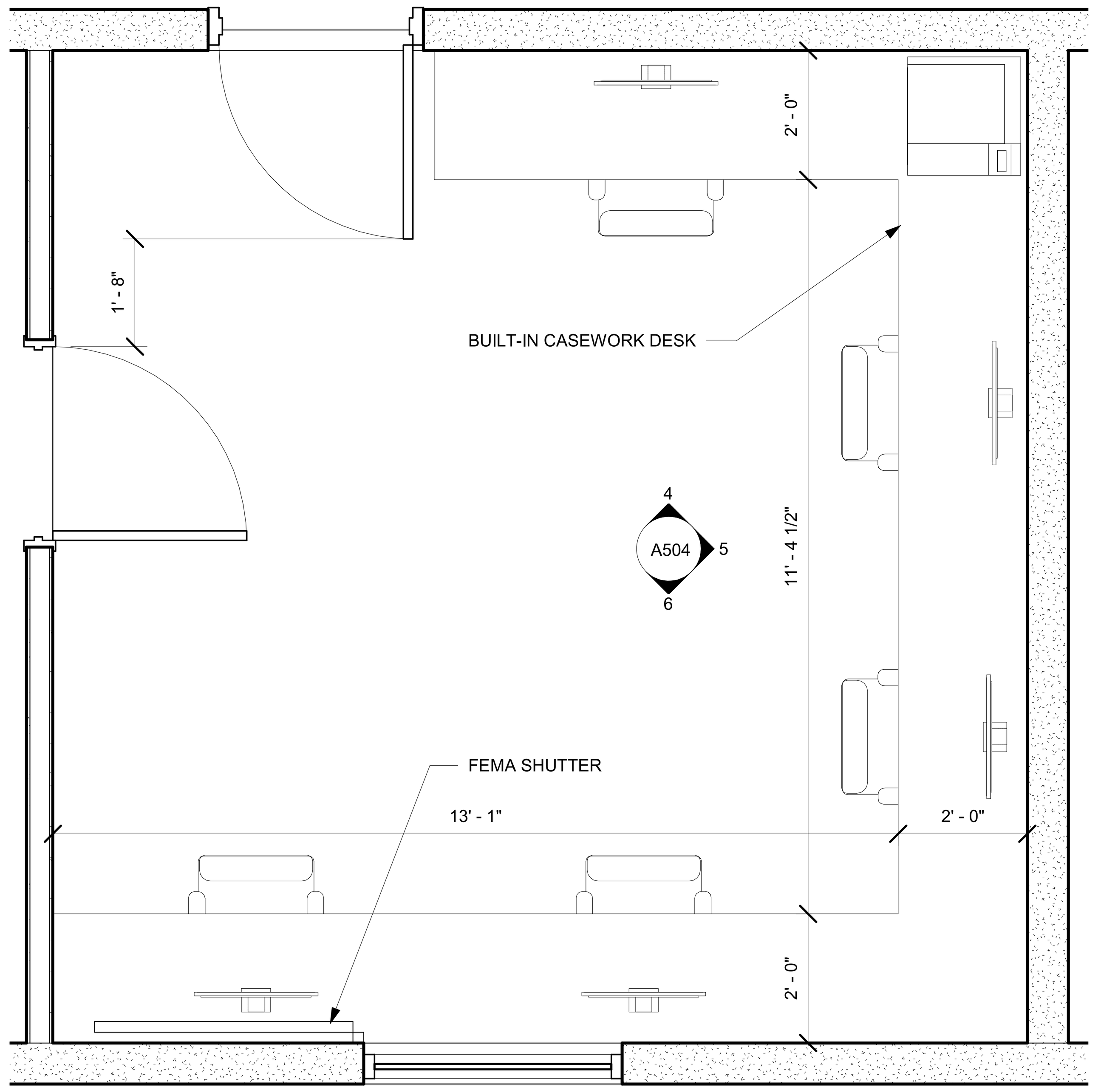
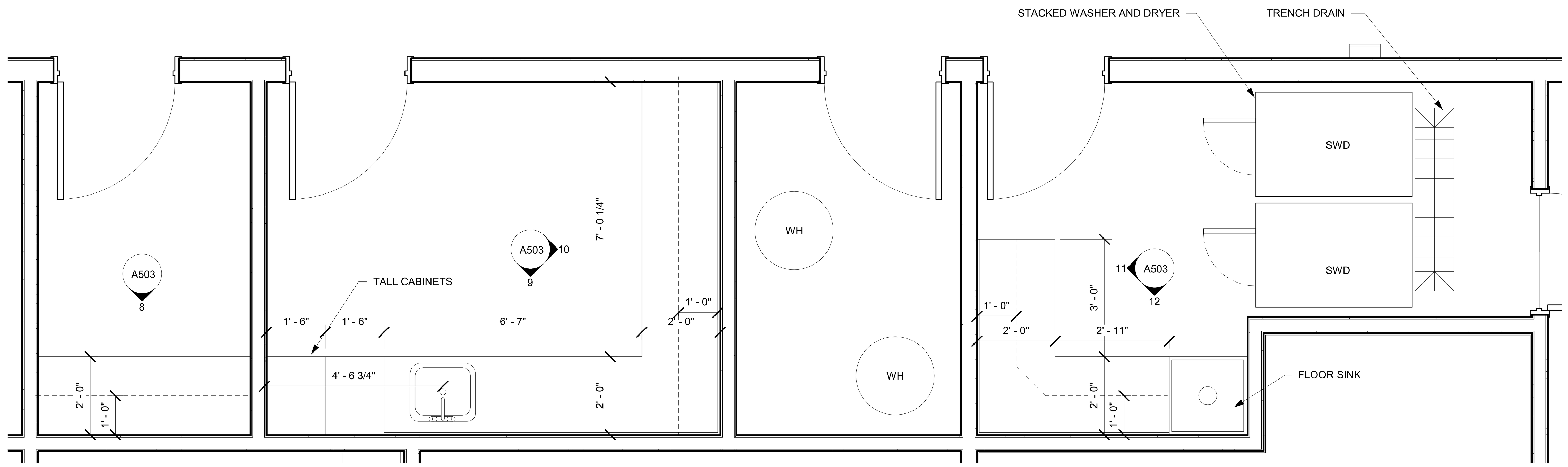
SHEET TITLE
ENLARGED PLANS

SHEET NUMBER
A205

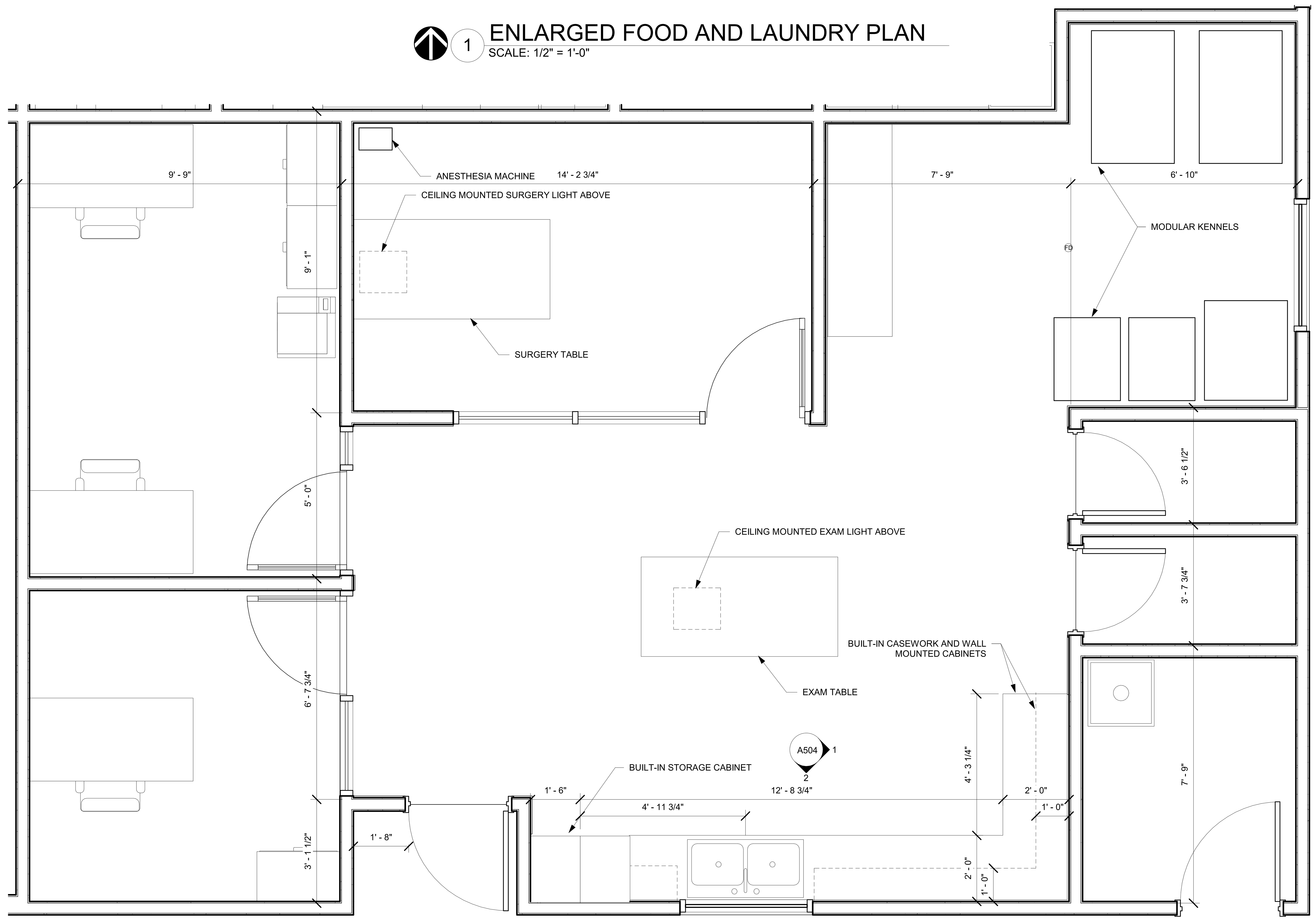
SHEET NOTE: ALL MILLWORK, CLEARANCES, AND BATHROOM DISTANCES ARE DIMENSIONED TO THE FACE OF WALL FINISH

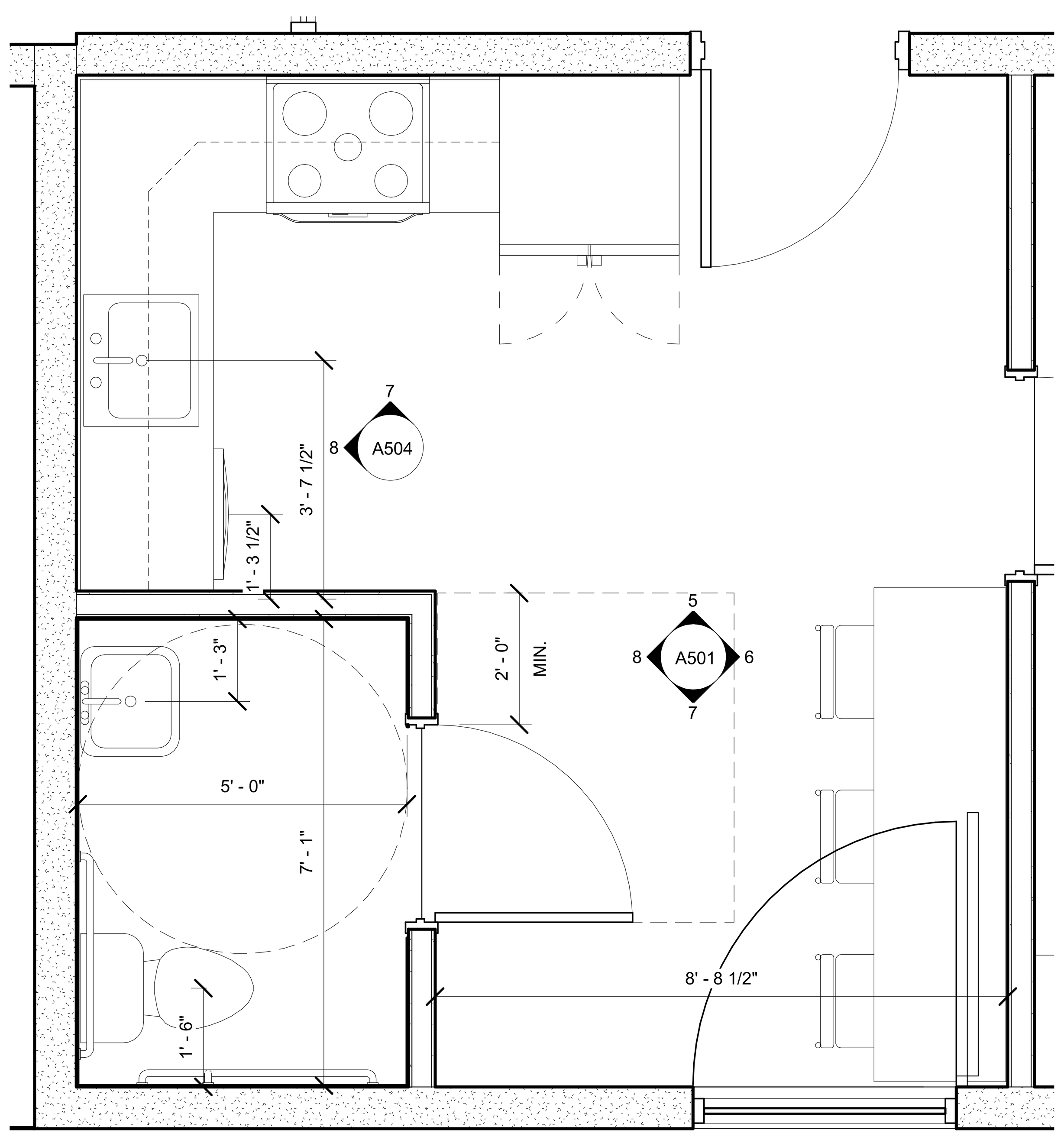


3 ENLARGED ACO OFFICE PLAN
SCALE: 1/2" = 1'-0"



1 ENLARGED FOOD AND LAUNDRY PLAN
SCALE: 1/2" = 1'-0"





4 ENLARGED BREAKROOM PLAN
SCALE: 1/2" = 1'-0"

2 ENLARGED MEDICAL ROOM
SCALE: 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

06/07/2022
SEAL

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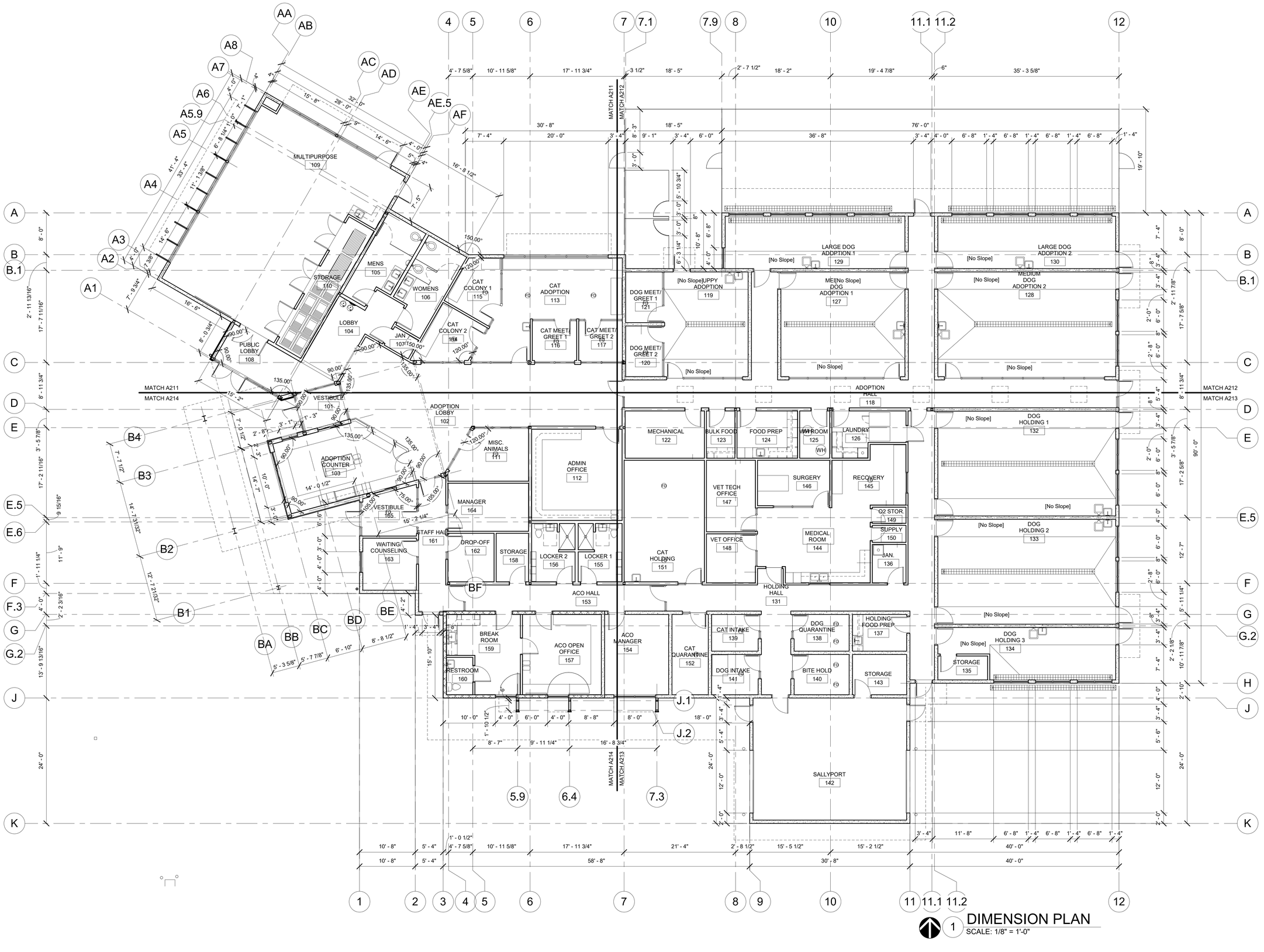
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/07/2022
REVISION DATES

SHEET TITLE
ENLARGED PLANS

SHEET NUMBER
A206



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

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

STATE OF OKLAHOMA
BARRETT L. WILLIAMSON
No. 9433
NORMAN, OKLA.
REGISTERED ARCHITECT

06/07/2022
SEAL

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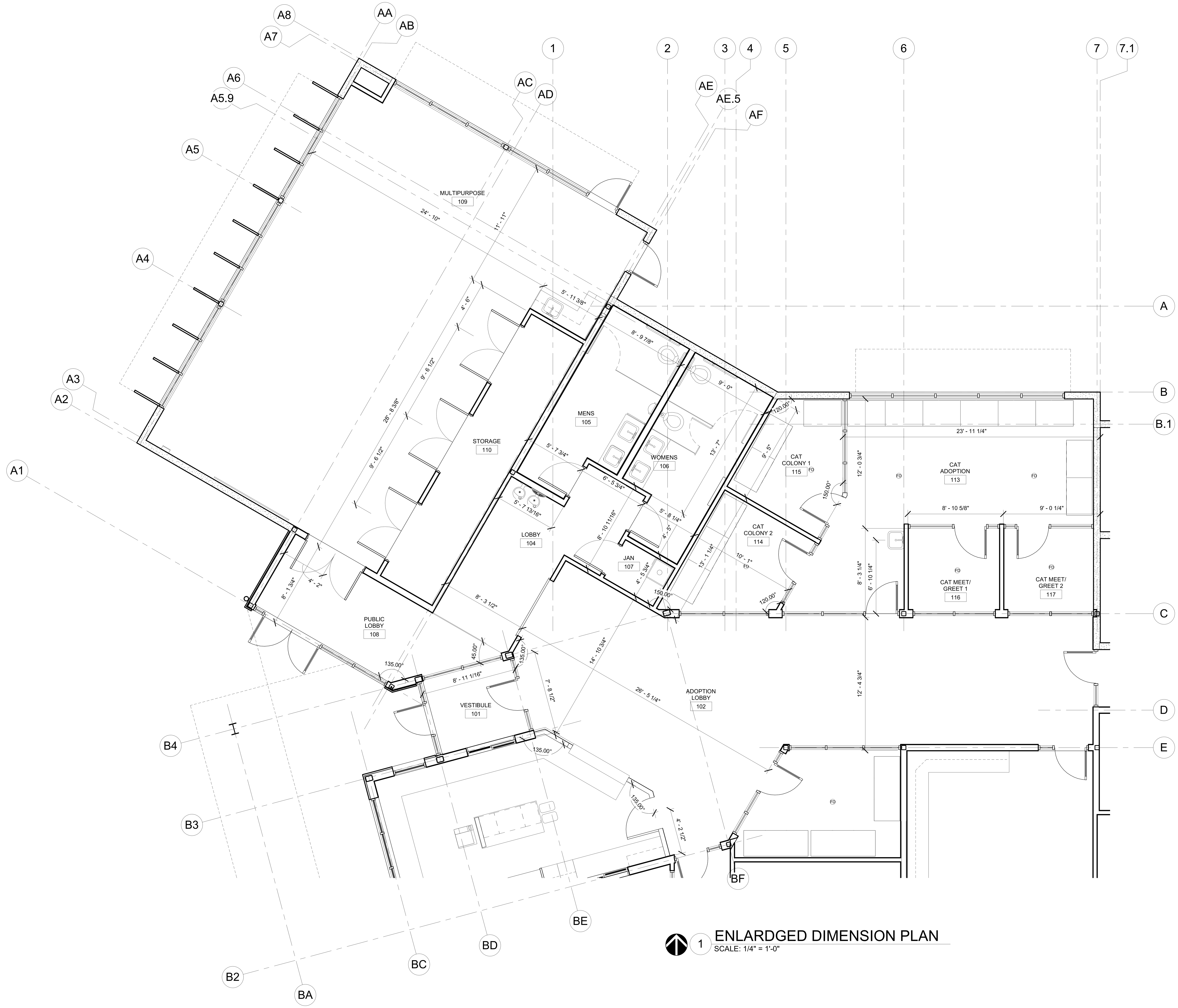
SHEET TITLE
DIMENSION PLAN

SHEET NUMBER
A207



1 ENLARDGED DIMENSION PLAN
SCALE: 1/4" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

06/07/2022
SEAL

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M31114

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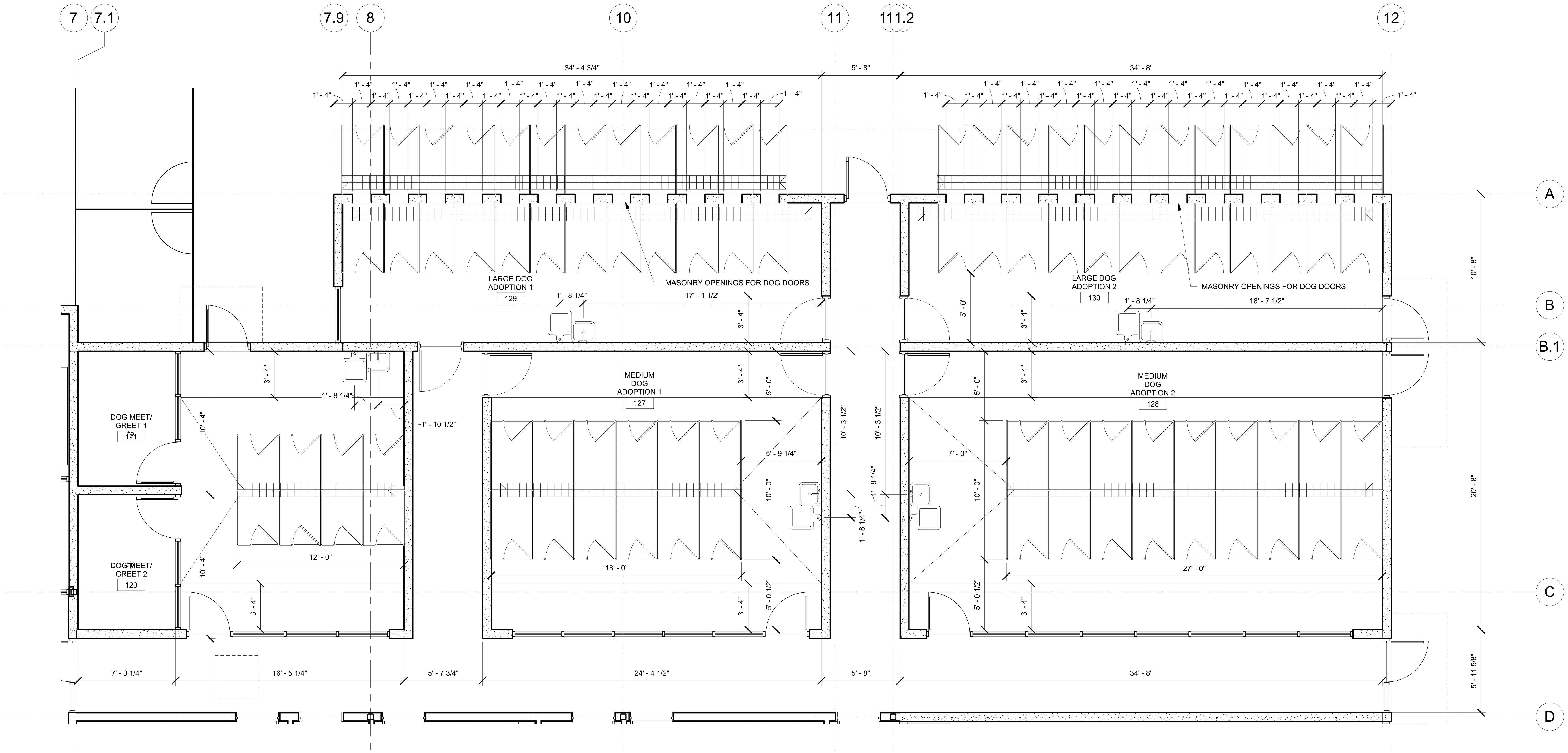
SHEET TITLE
ENLARGED DIMENSION PLANS

SHEET NUMBER
A208



1 ENLARDGED DIMENSION PLAN
SCALE: 1/4" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
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06/07/2022
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M31114

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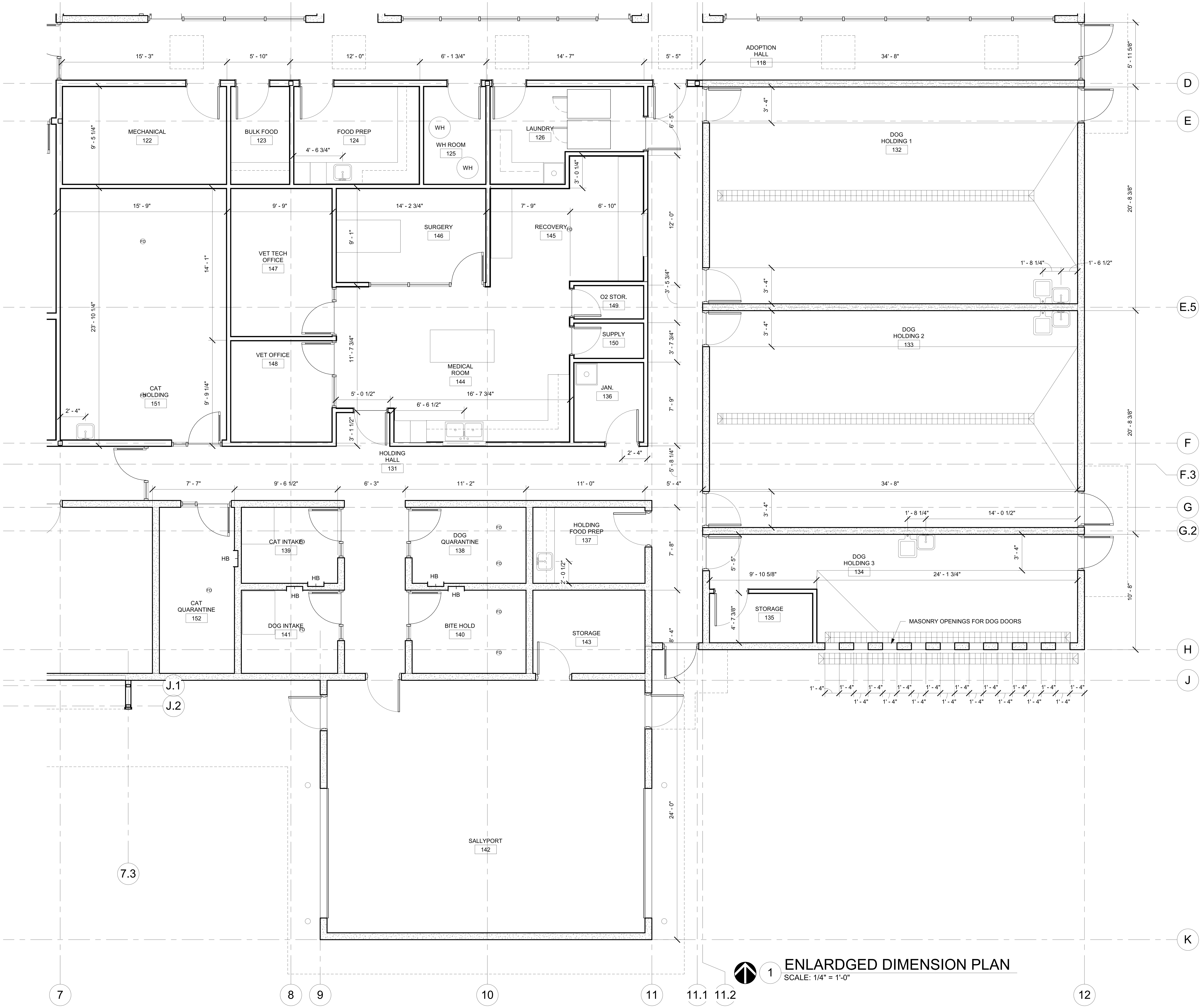
SHEET TITLE
ENLARGED
DIMENSION
PLANS

SHEET NUMBER
A209



1 ENLARDGED DIMENSION PLAN
SCALE: 1/4" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

06/07/2022
SEAL

BLW
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06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/07/2022
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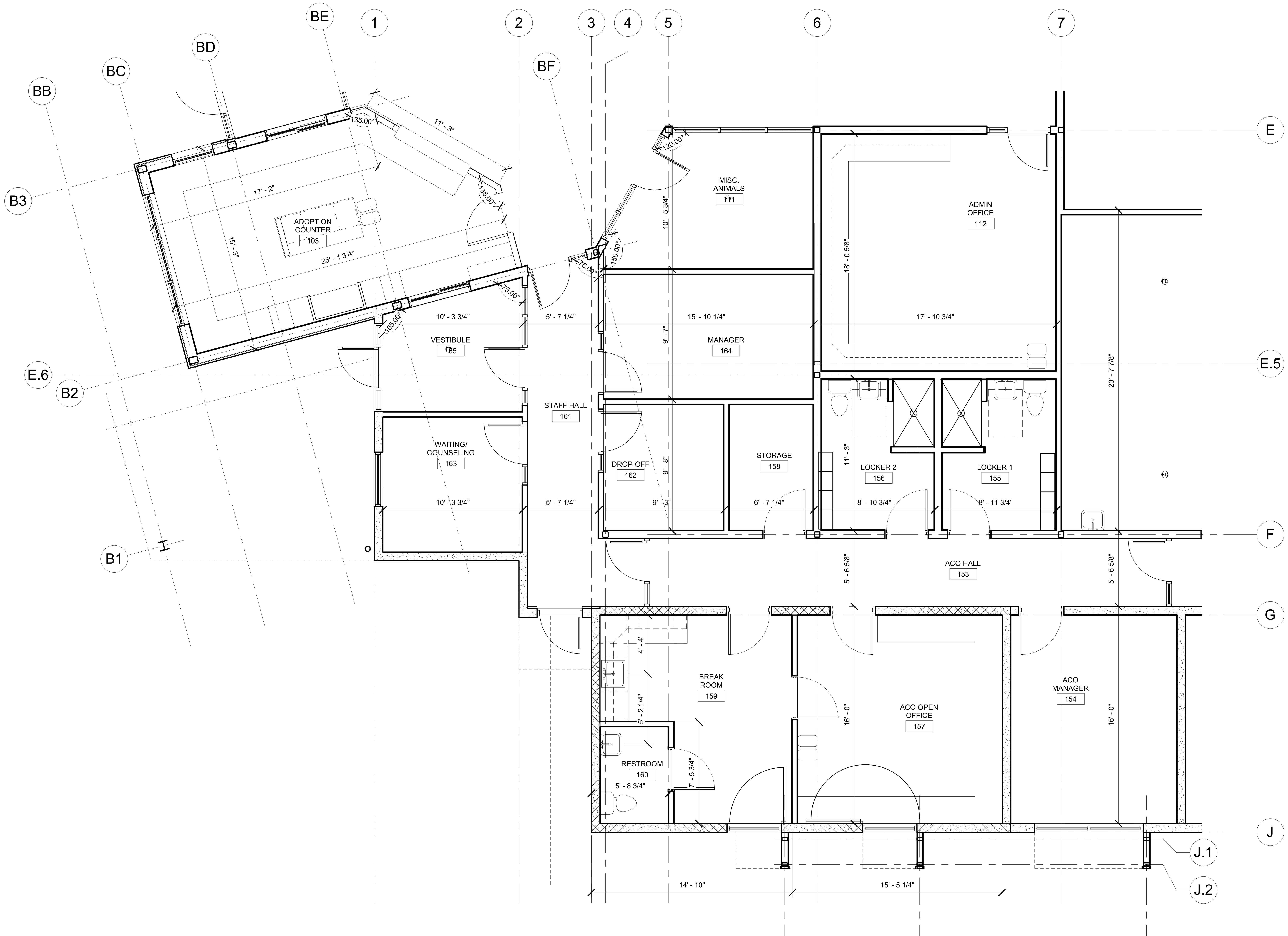
SHEET TITLE
ENLARGED DIMENSION PLAN
SHEET NUMBER
A210



1 ENLARDGED DIMENSION PLAN

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

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
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06/07/2022
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M31114

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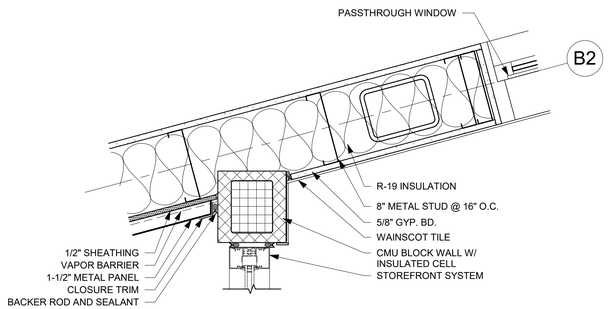
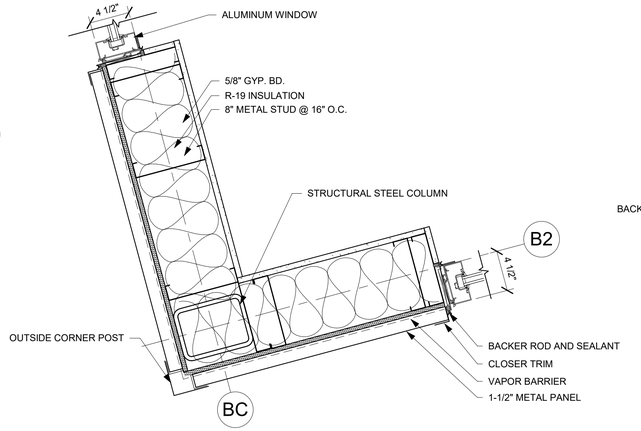
SHEET TITLE
ENLARGED DIMENSION PLAN

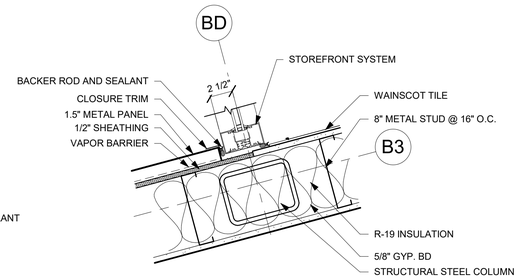
SHEET NUMBER
A211



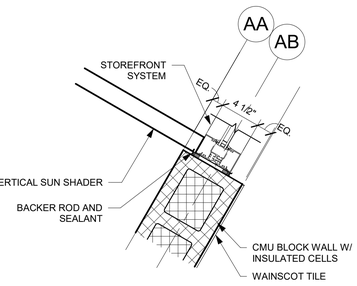
1 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



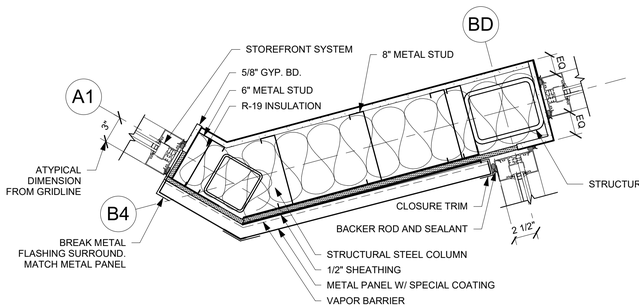
2 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



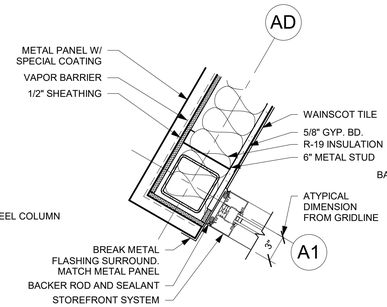
3 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



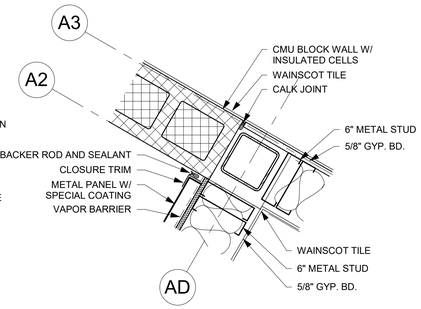
4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



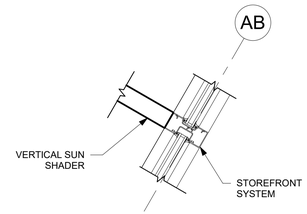
5 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



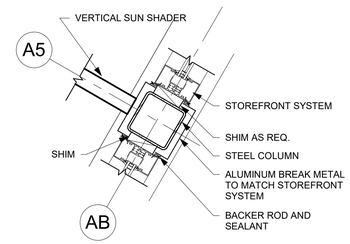
6 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



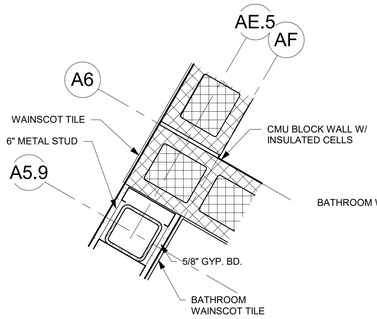
7 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



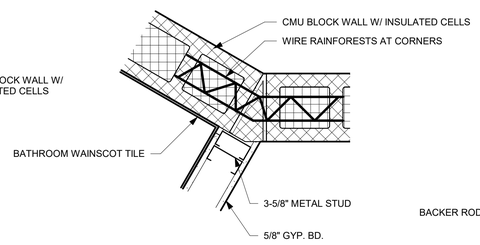
8 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



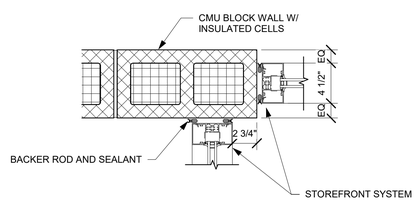
9 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



10 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



11 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



12 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

STATE OF OKLAHOMA
REGISTERED
No. 9433
NORMAN, OKLA.
LICENSED ARCHITECT

06/07/2022
SEAL

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06-30-23

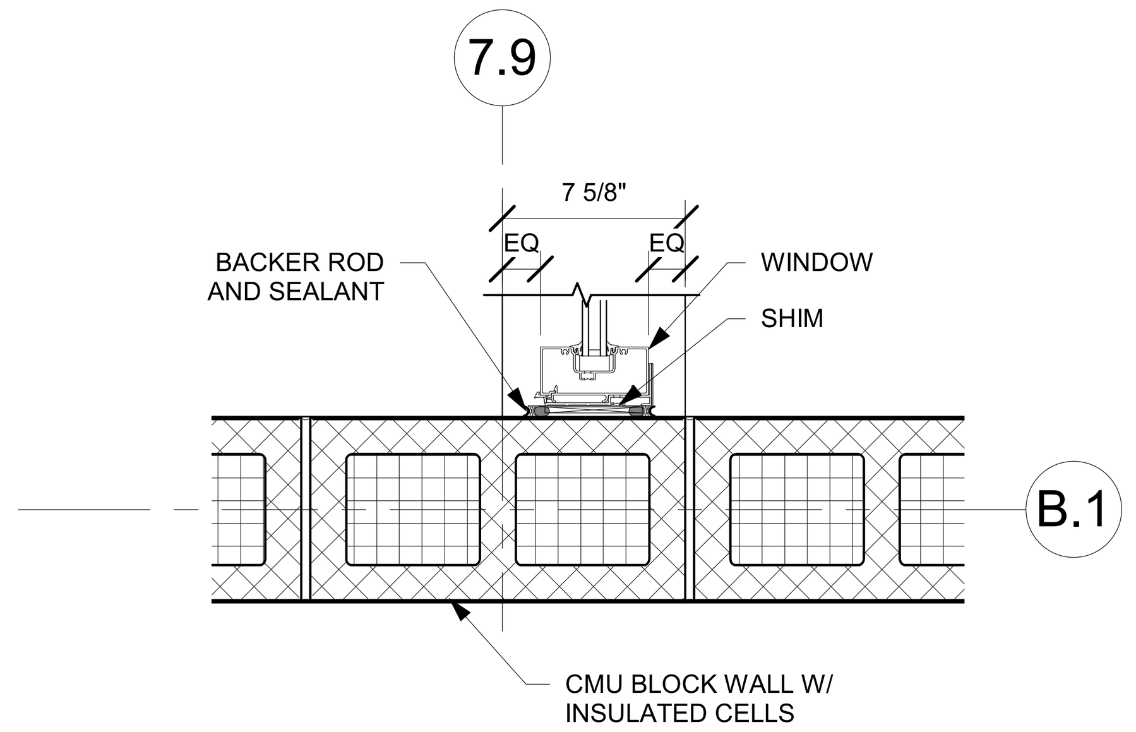
PROJECT NUMBER
M31114

ISSUE DATE
6/07/2022

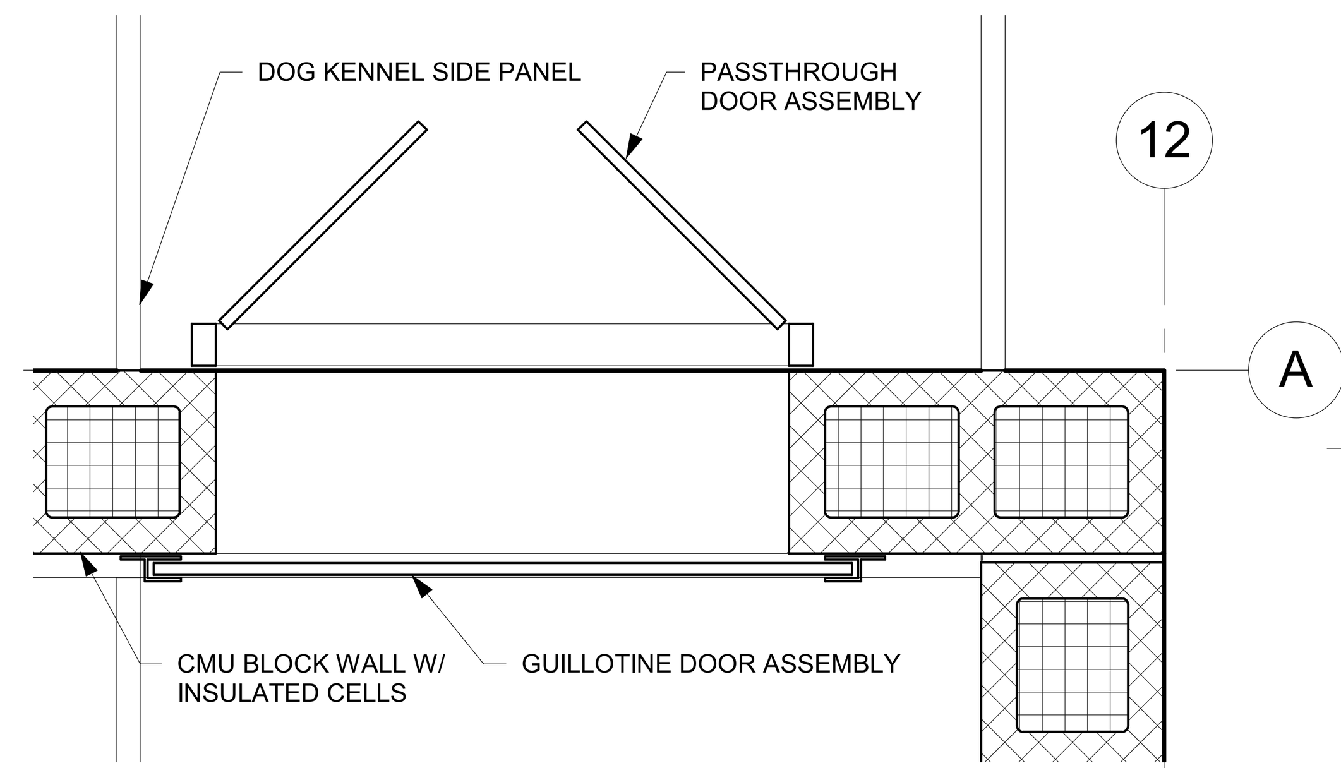
REVISION DATES

SHEET TITLE
PLAN DETAILS

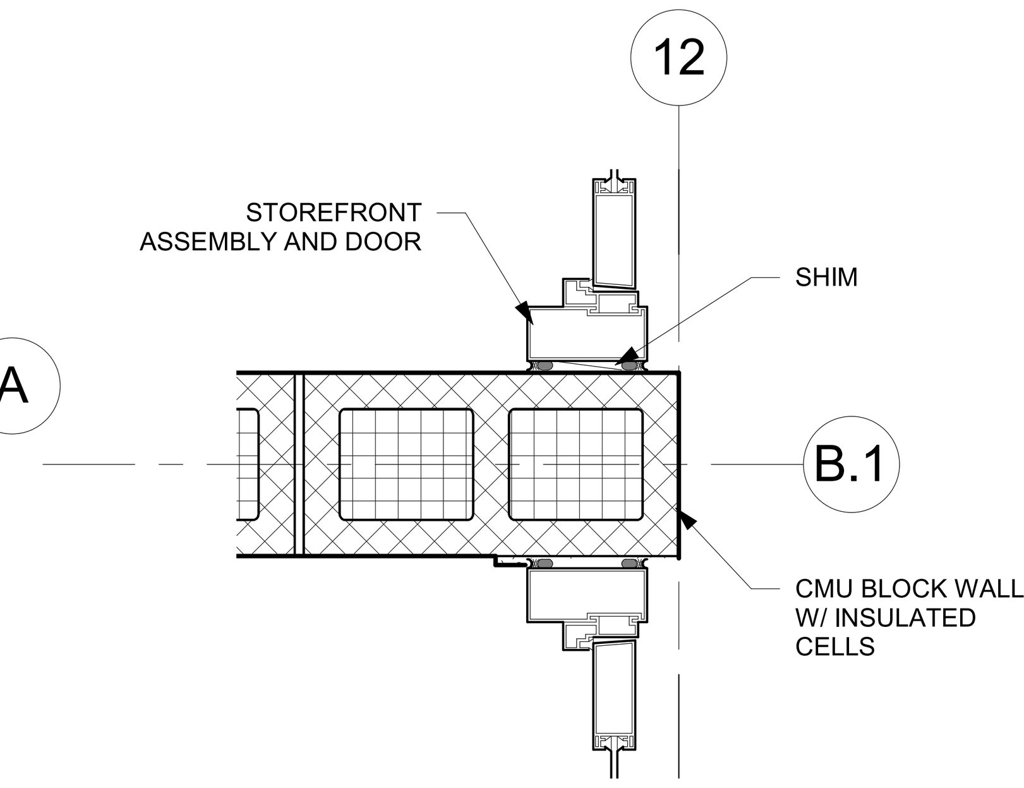
SHEET NUMBER
A212



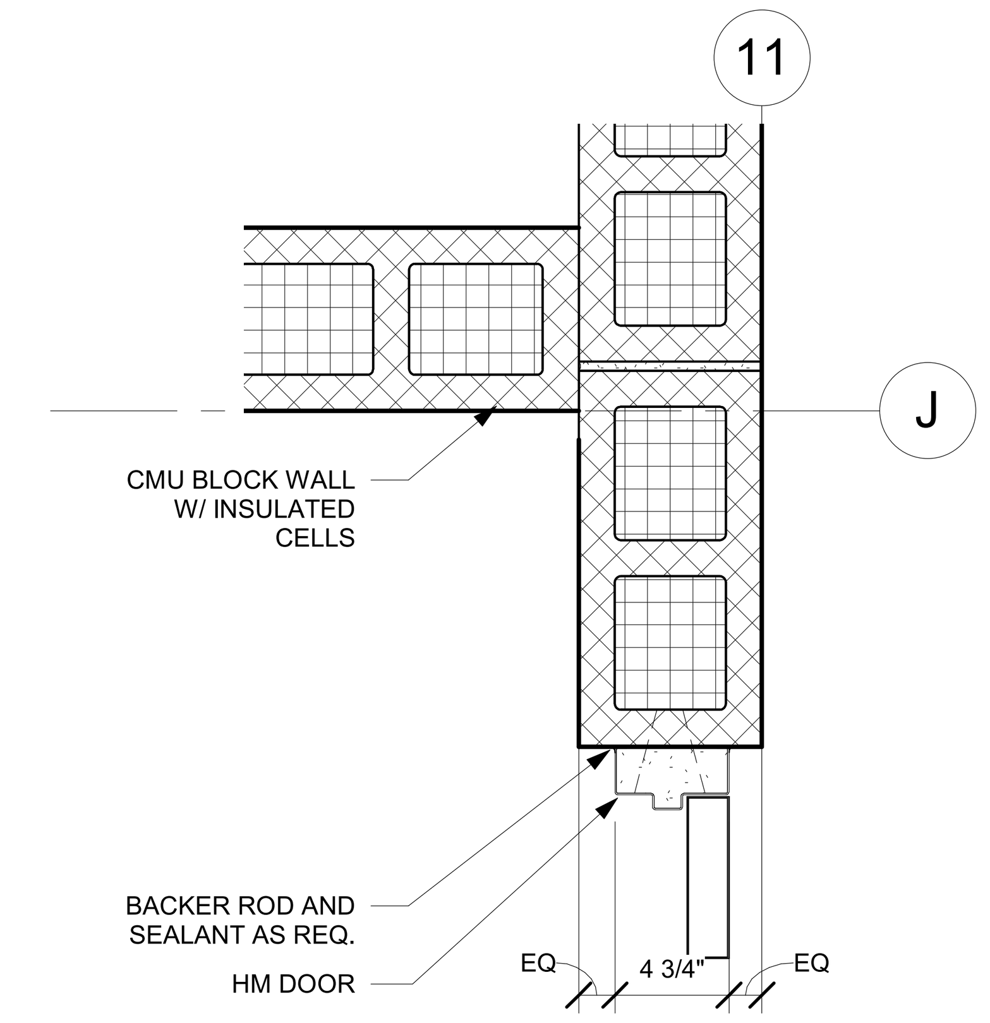
1 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



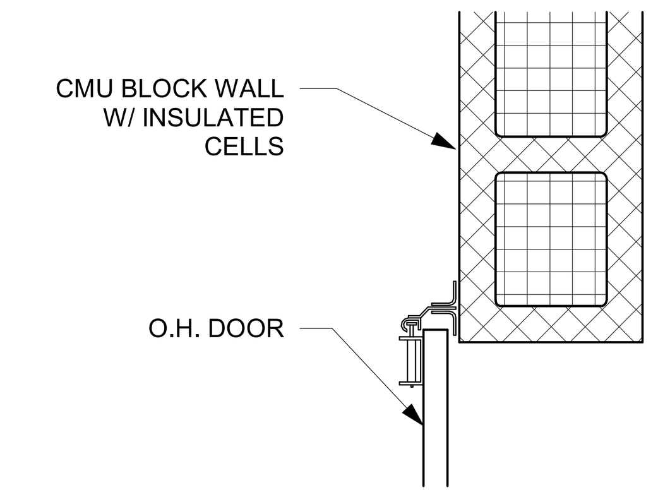
2 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



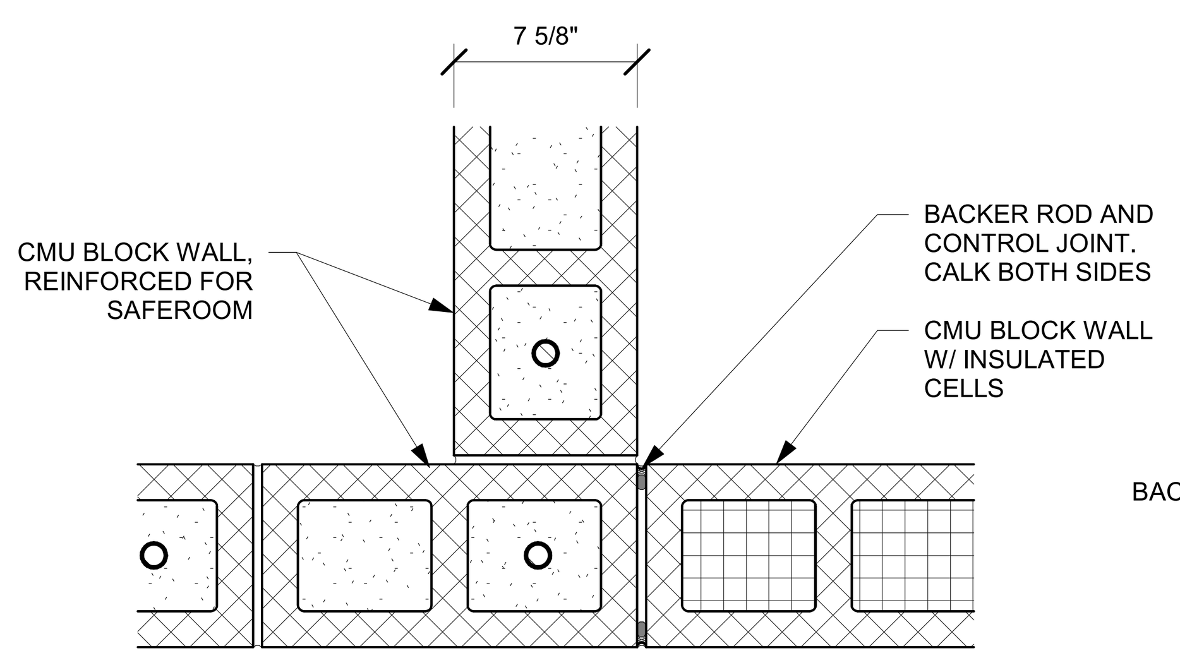
3 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



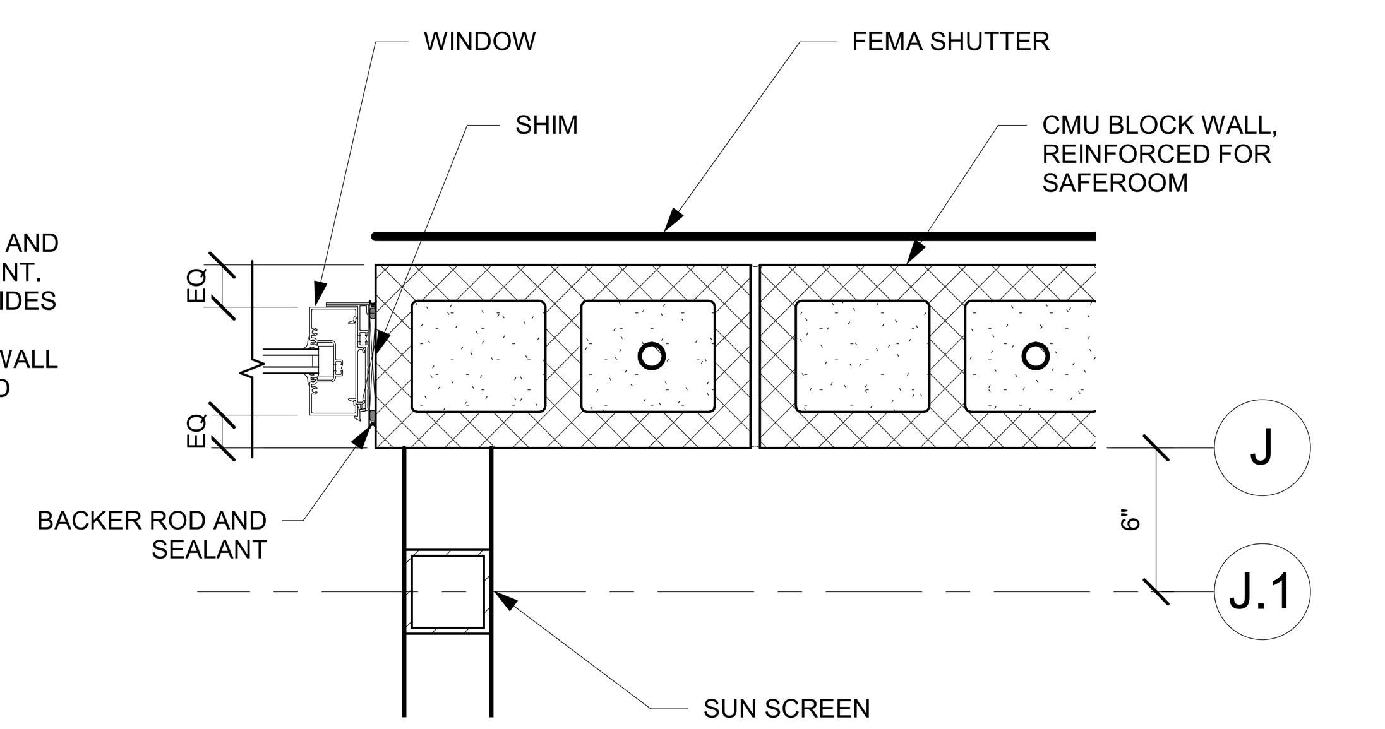
4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



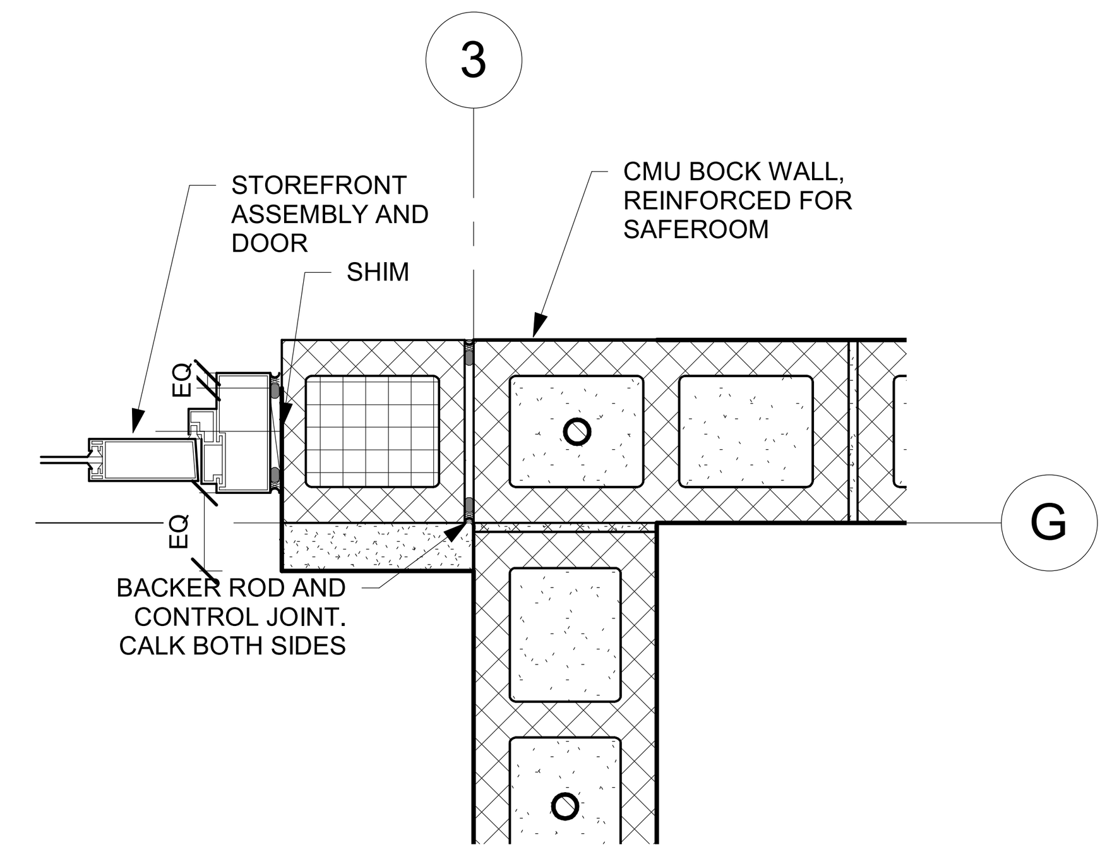
5 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



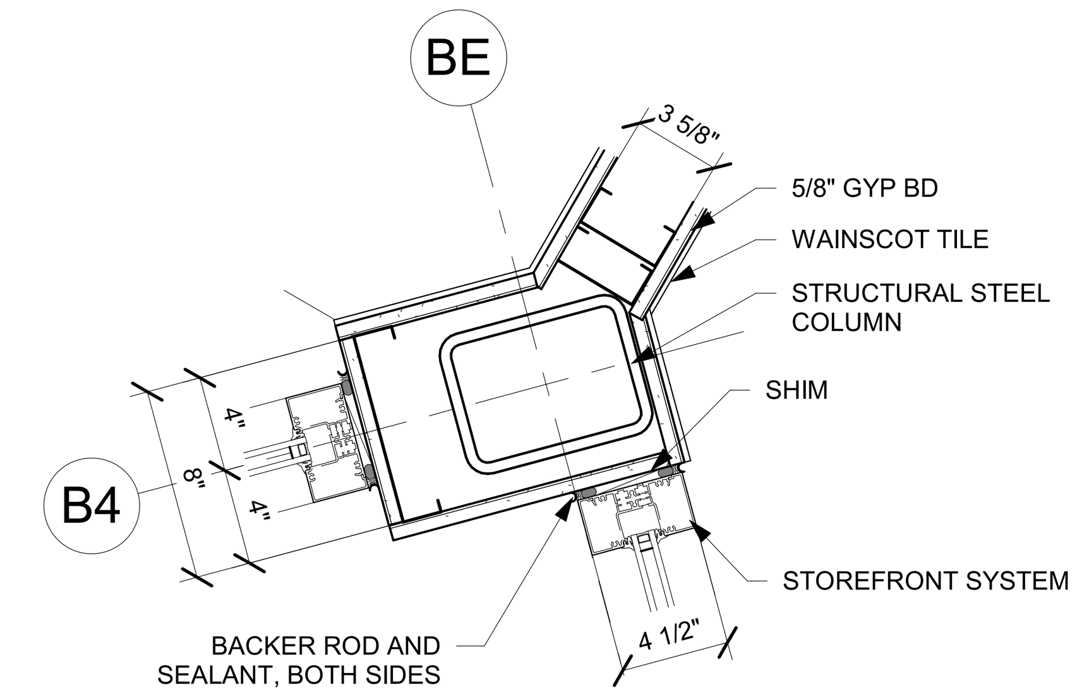
6 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



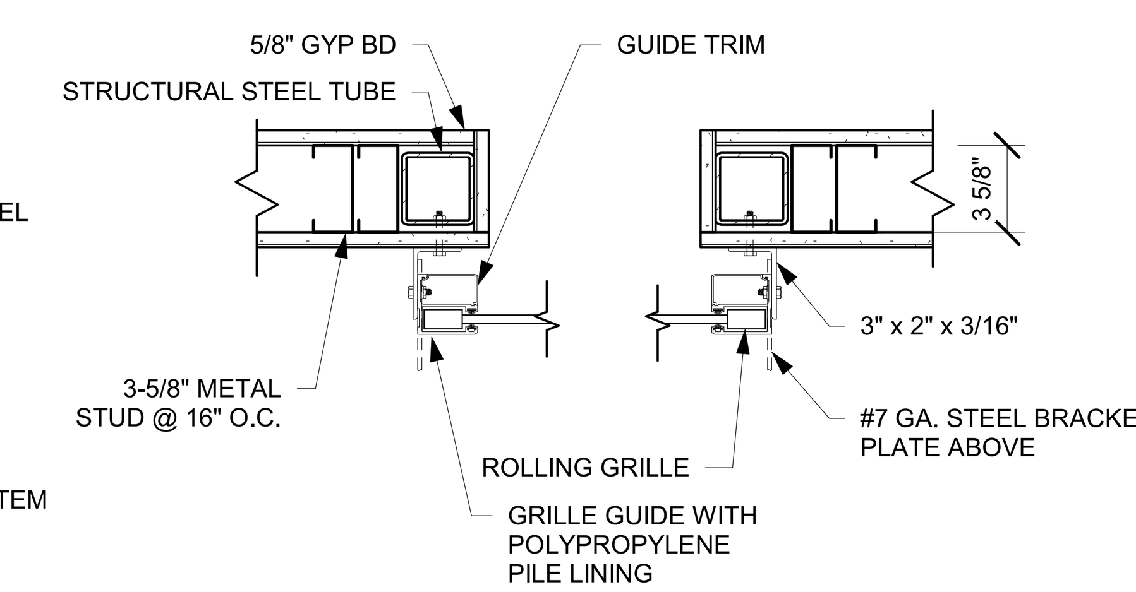
7 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



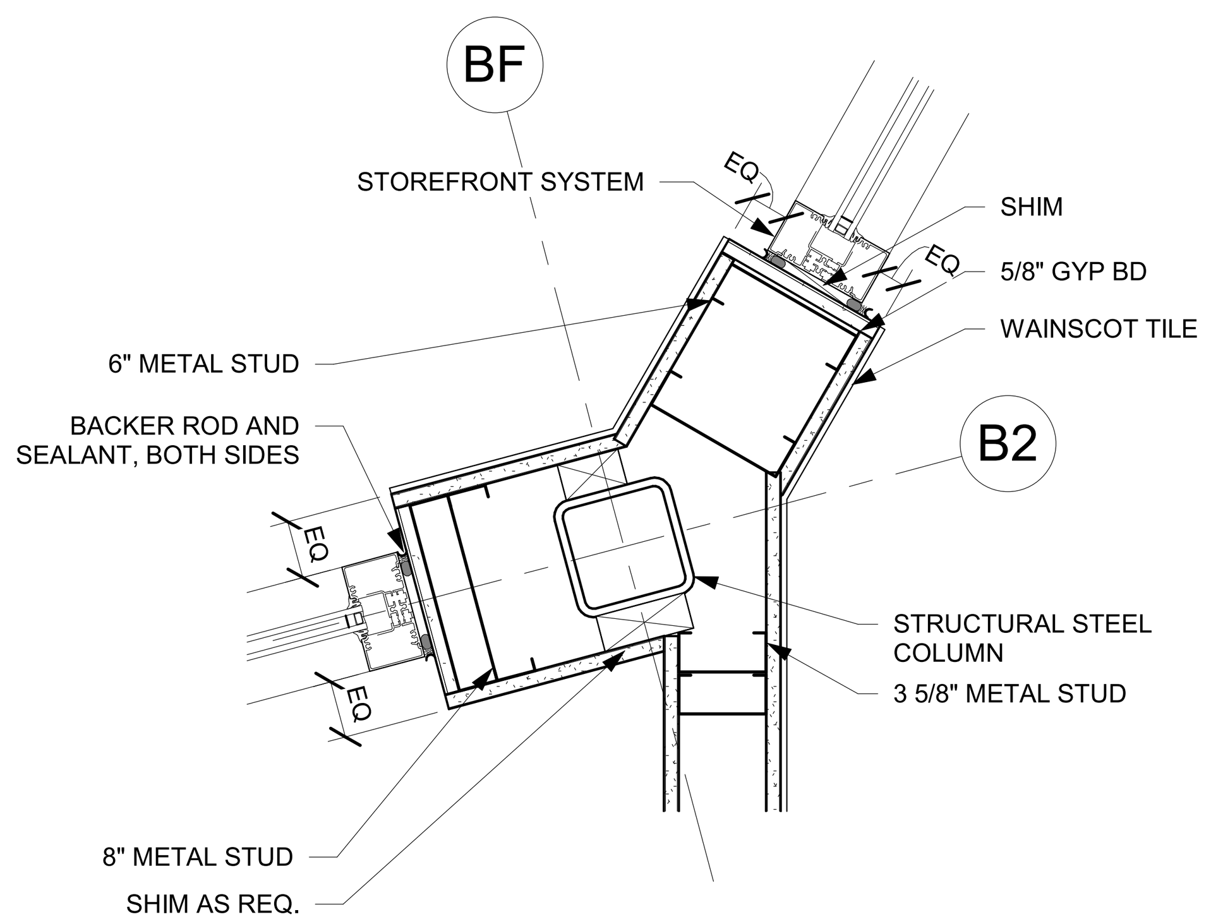
8 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



9 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



10 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



11 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
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06/07/2022
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06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
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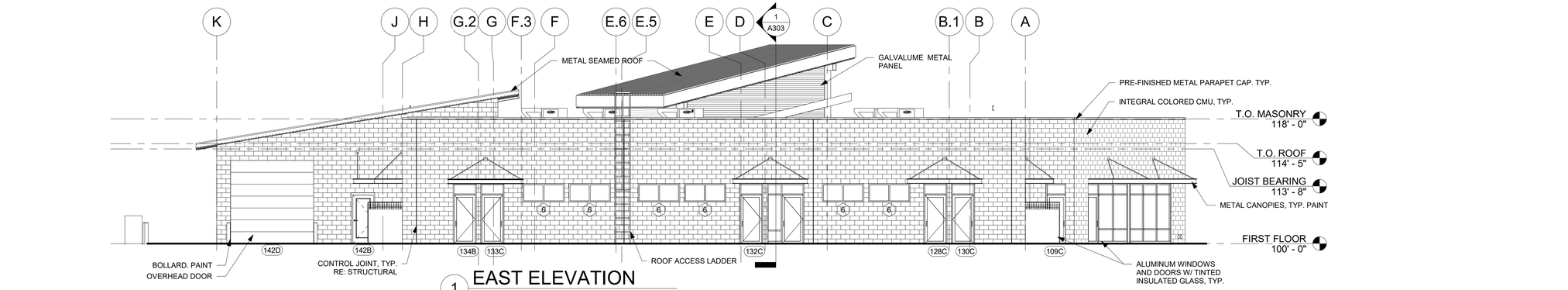
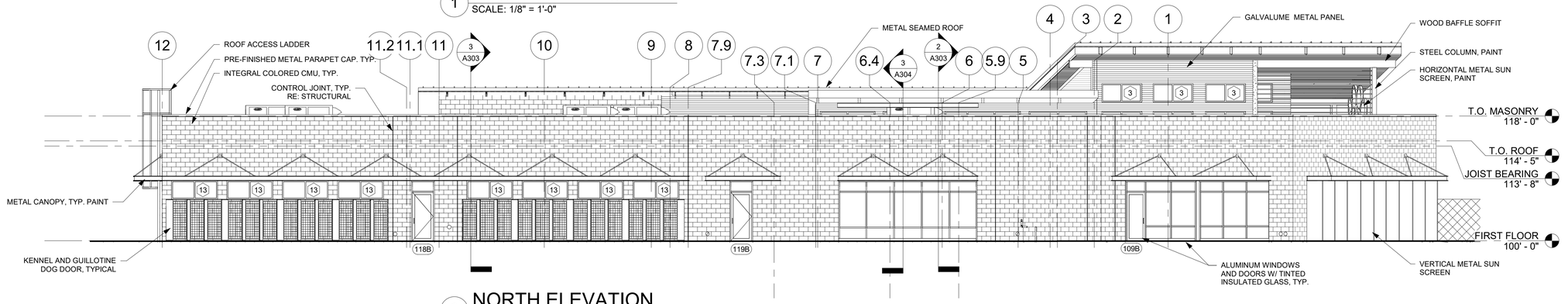
REVISION DATES

SHEET TITLE
PLAN DETAILS

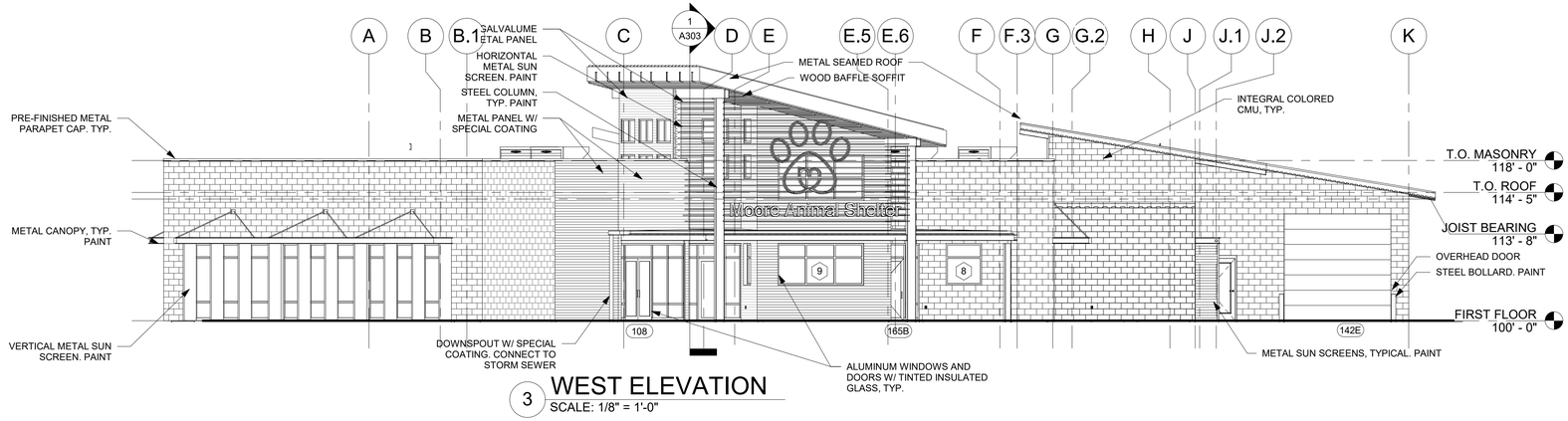
SHEET NUMBER
A213



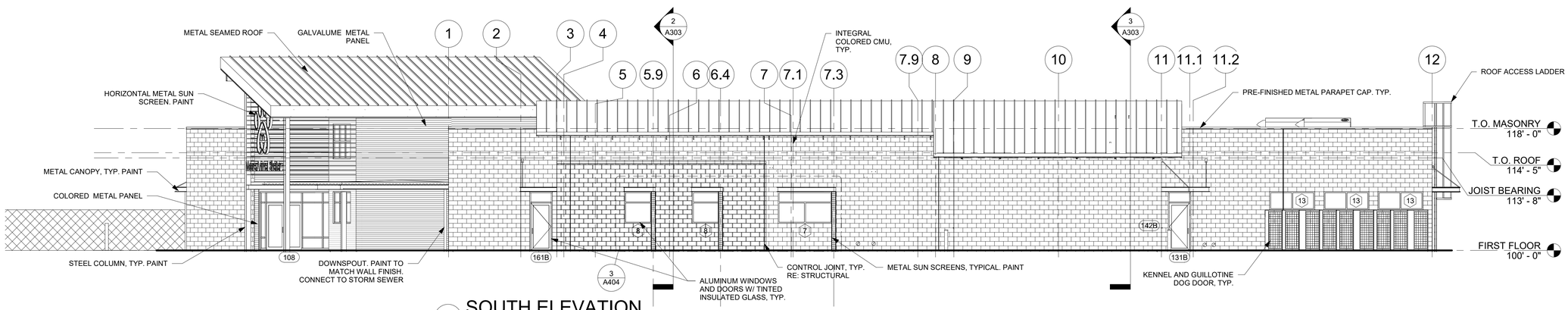
1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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



4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
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STATE OF OKLAHOMA
WESTON
WILLIAMSON
No. 9433
NORMAN, OKLA.
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06/07/2022
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M31114

ISSUE DATE
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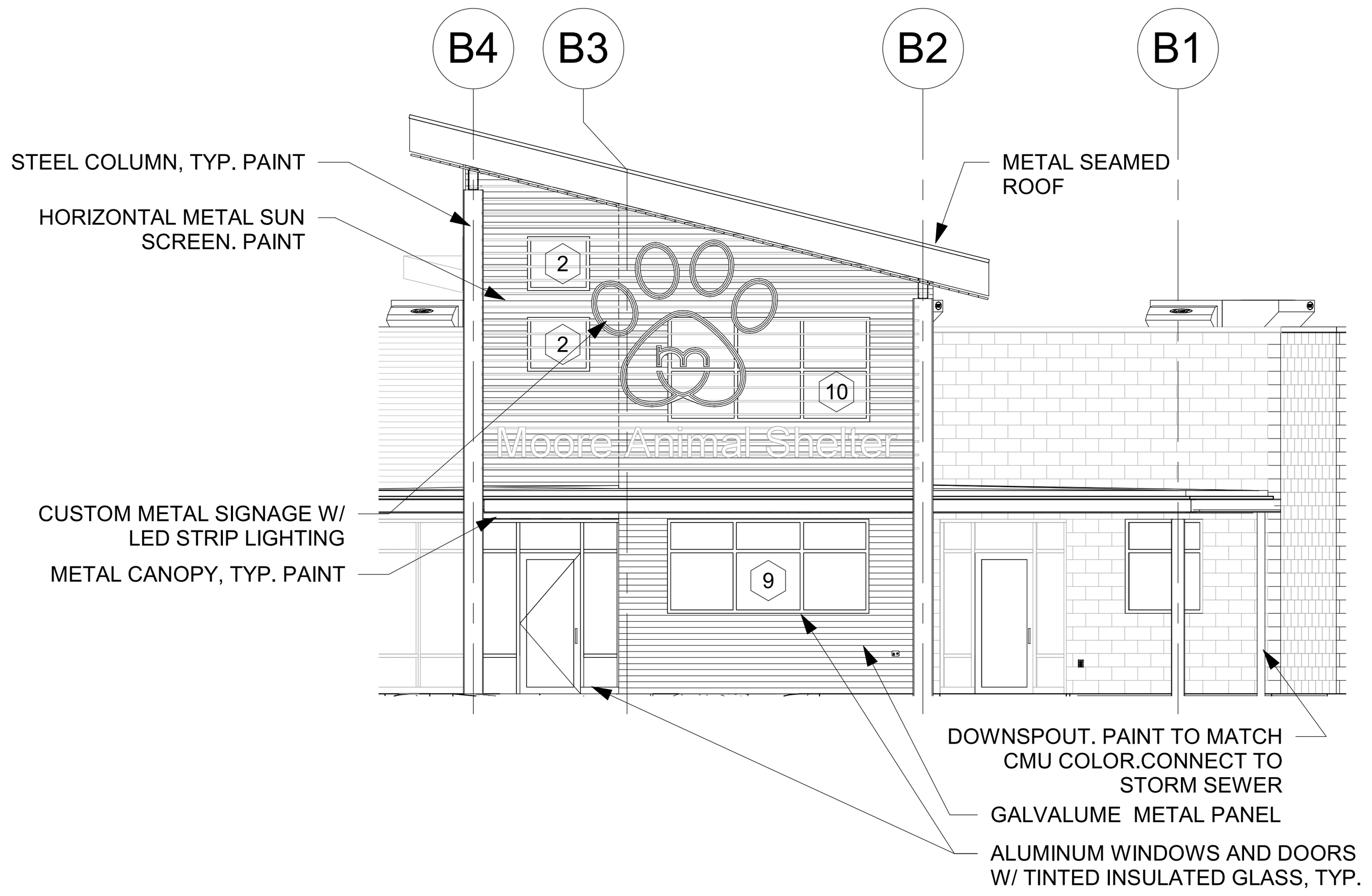
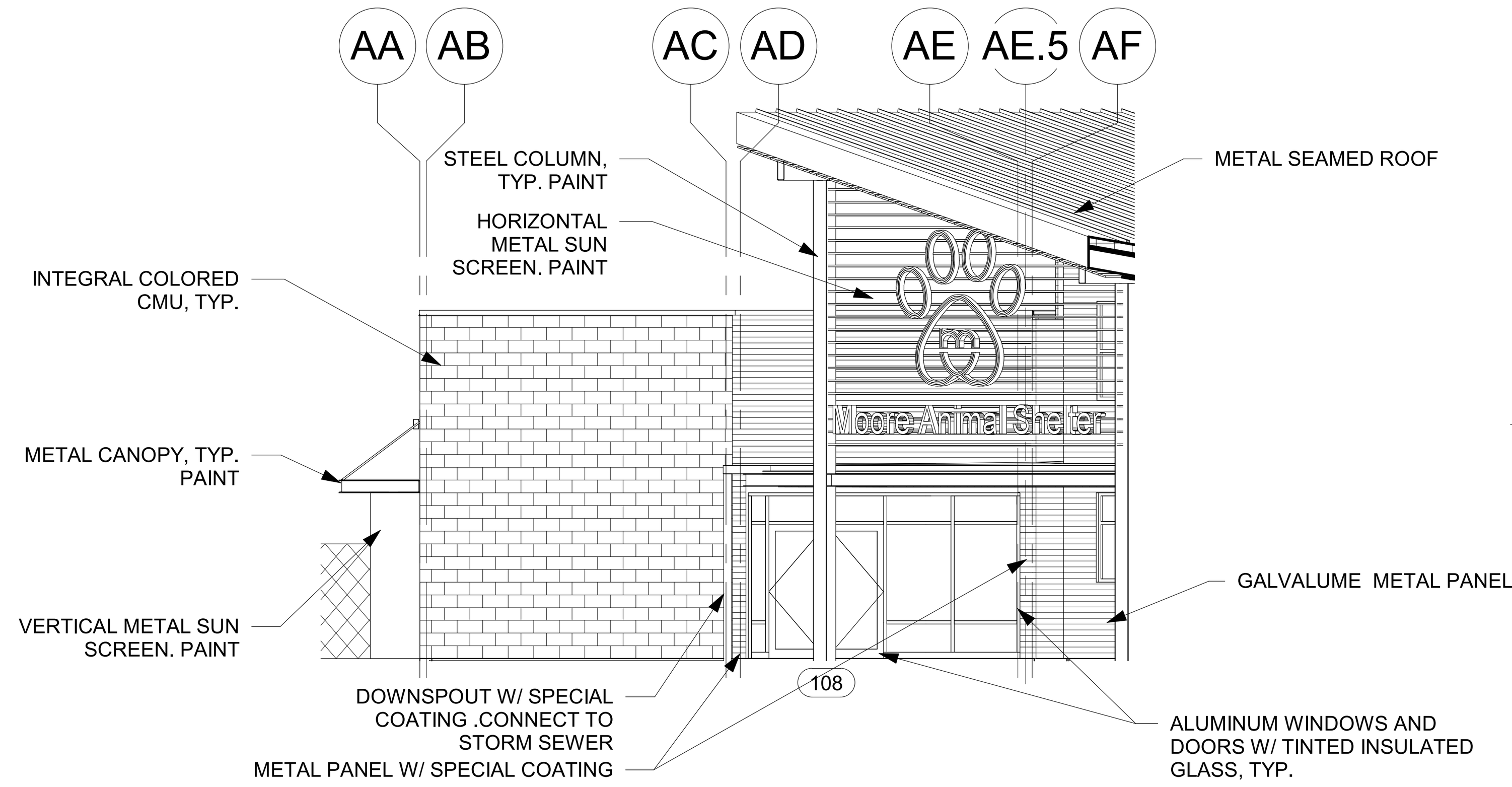
DESIGN DEVELOPMENT PROGRESS SET

SHEET TITLE
BUILDING ELEVATIONS

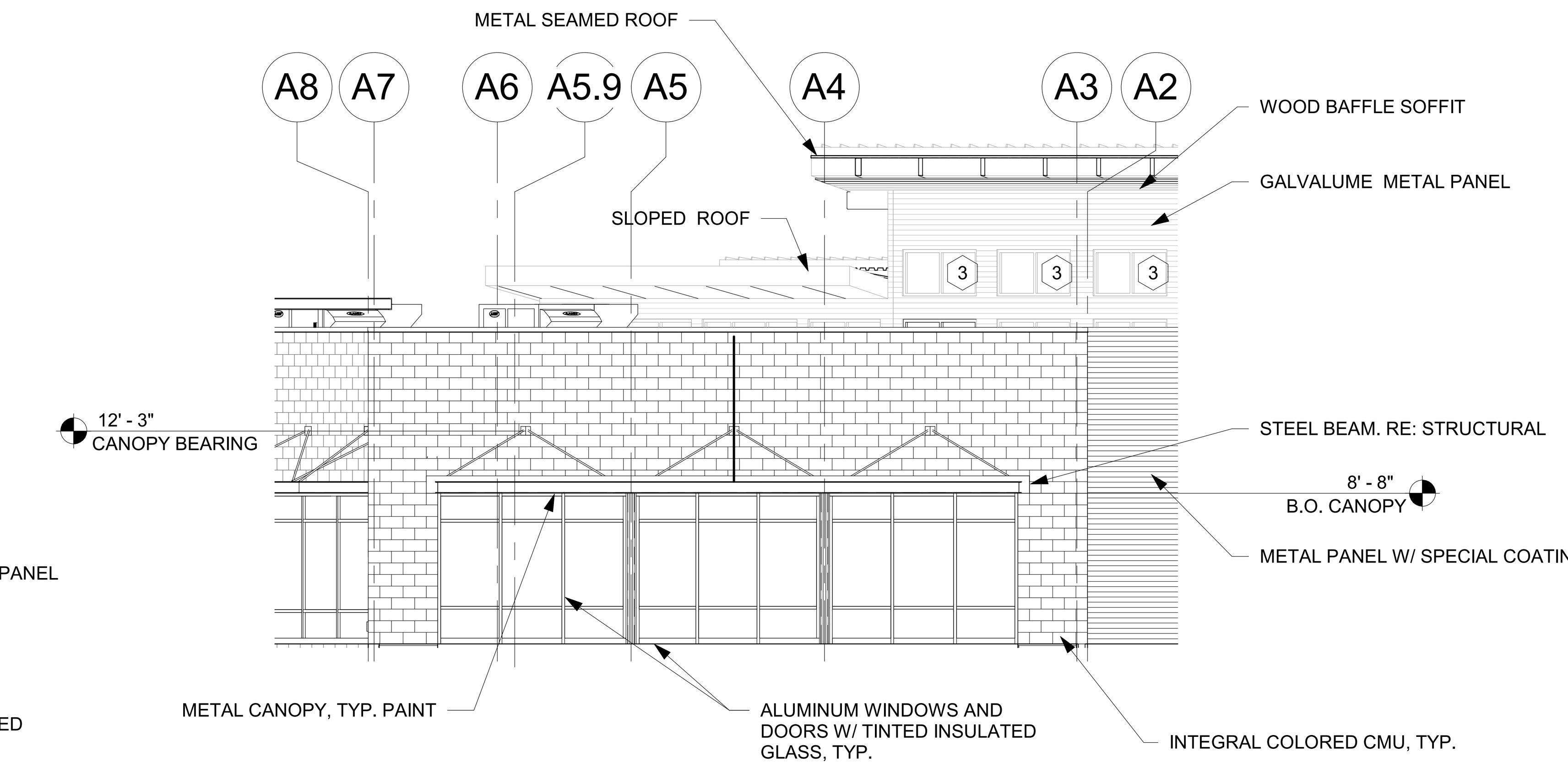
SHEET NUMBER
A301



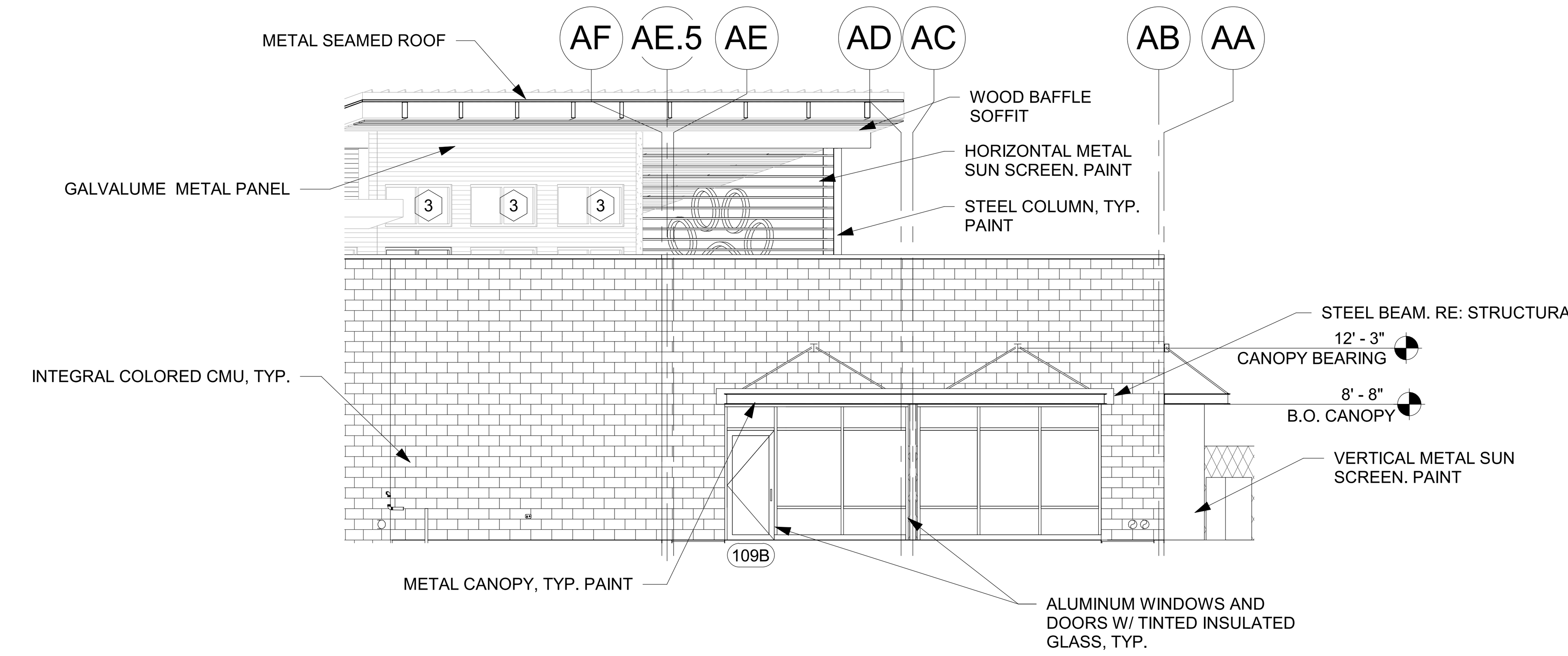
1 ELEVATION - ENTRY
SCALE: 1/8" = 1'-0"



2 ELEVATION - MULTIPURPOSE ENTRY
SCALE: 1/8" = 1'-0"



3 ELEVATION - MULTIPURPOSE WINDOW
SCALE: 1/8" = 1'-0"



4 ELEVATION - MULTIPURPOSE BACK ENTRY
SCALE: 1/8" = 1'-0"

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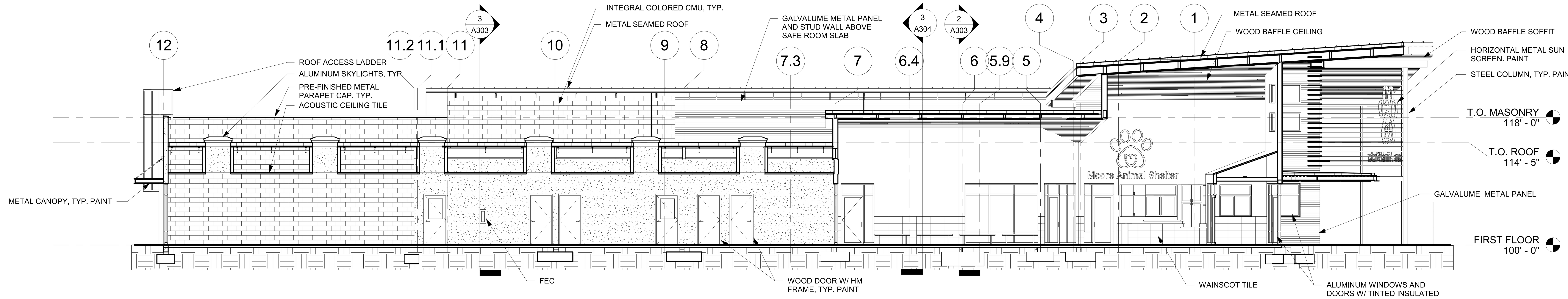
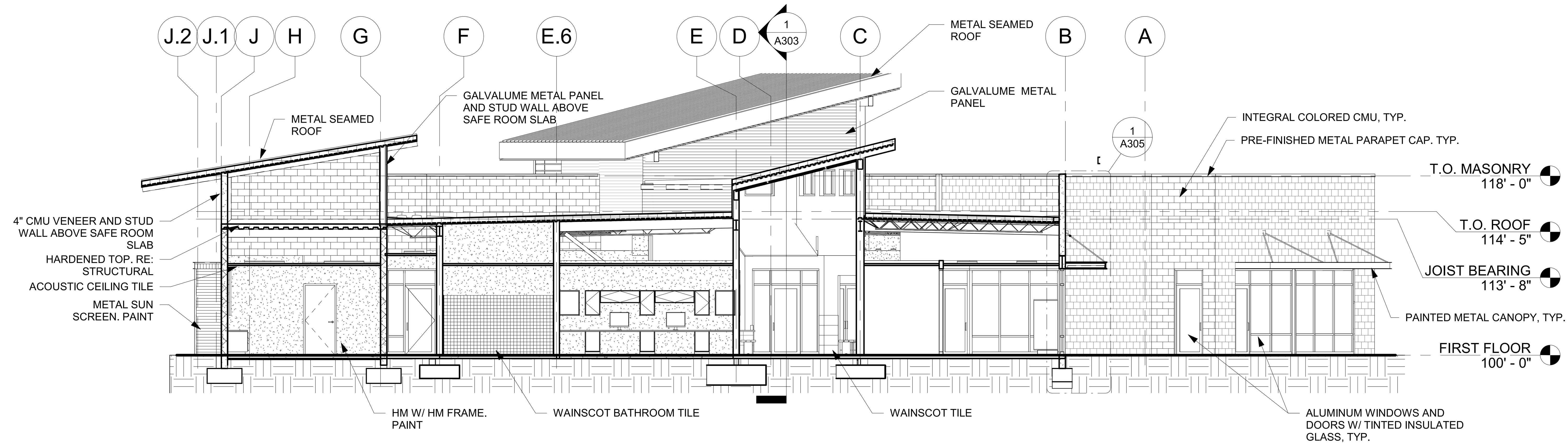
DESIGN DEVELOPMENT PROGRESS SET

SHEET TITLE
PARTIAL BUILDING ELEVATIONS

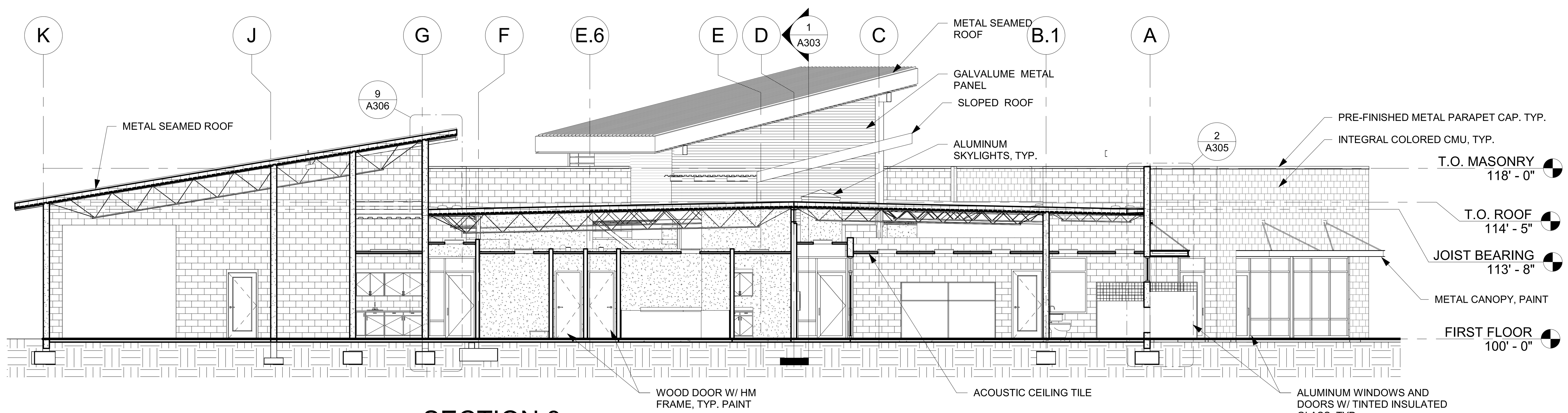
SHEET NUMBER
A302



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



2 SECTION 2
SCALE: 1/8" = 1'-0"



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

MOORE ANIMAL SHELTER
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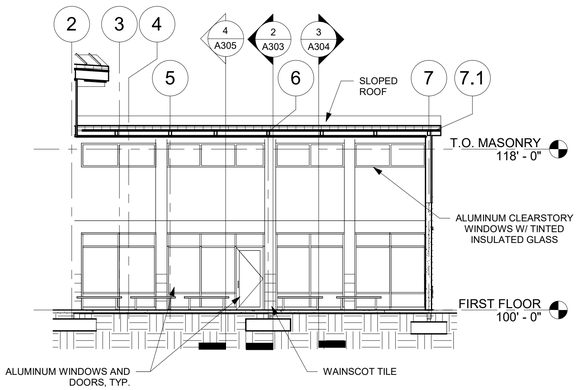
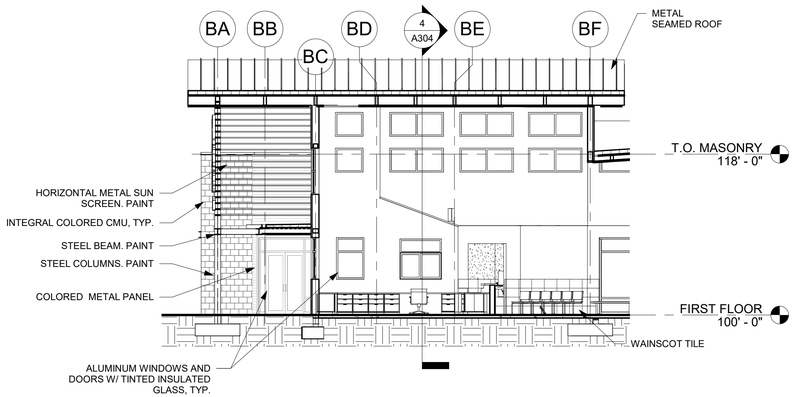
SHEET TITLE
BUILDING SECTIONS

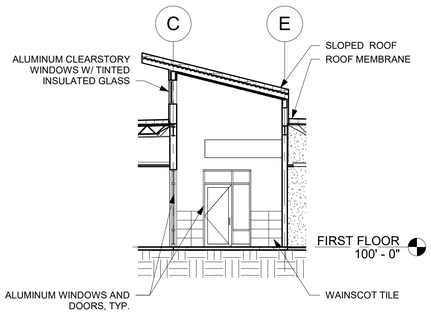
SHEET NUMBER
A303



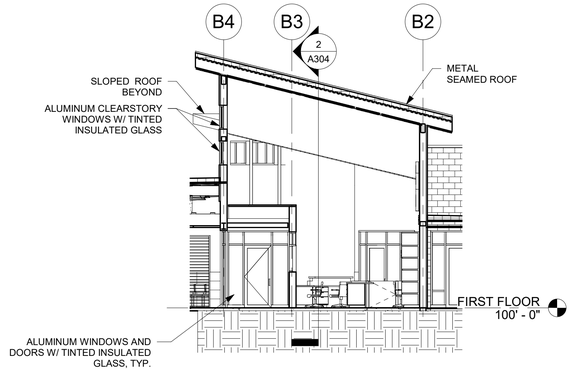
1 SECTION 4
SCALE: 1/8" = 1'-0"



2 SECTION 5
SCALE: 1/8" = 1'-0"



3 SECTION 6
SCALE: 1/8" = 1'-0"



4 SECTION 7
SCALE: 1/8" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

06/07/2022
SEAL

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PROJECT NUMBER
M31114

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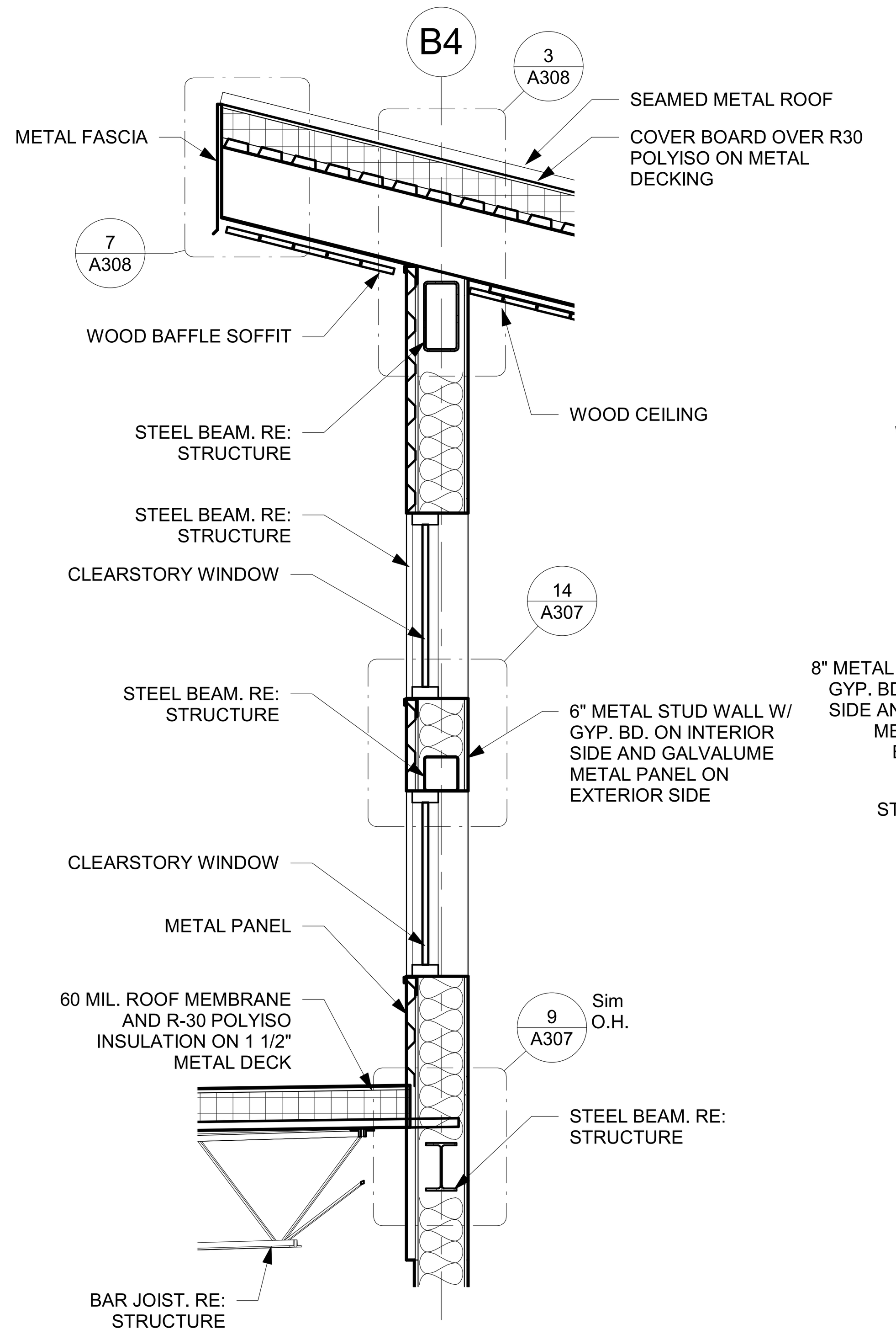
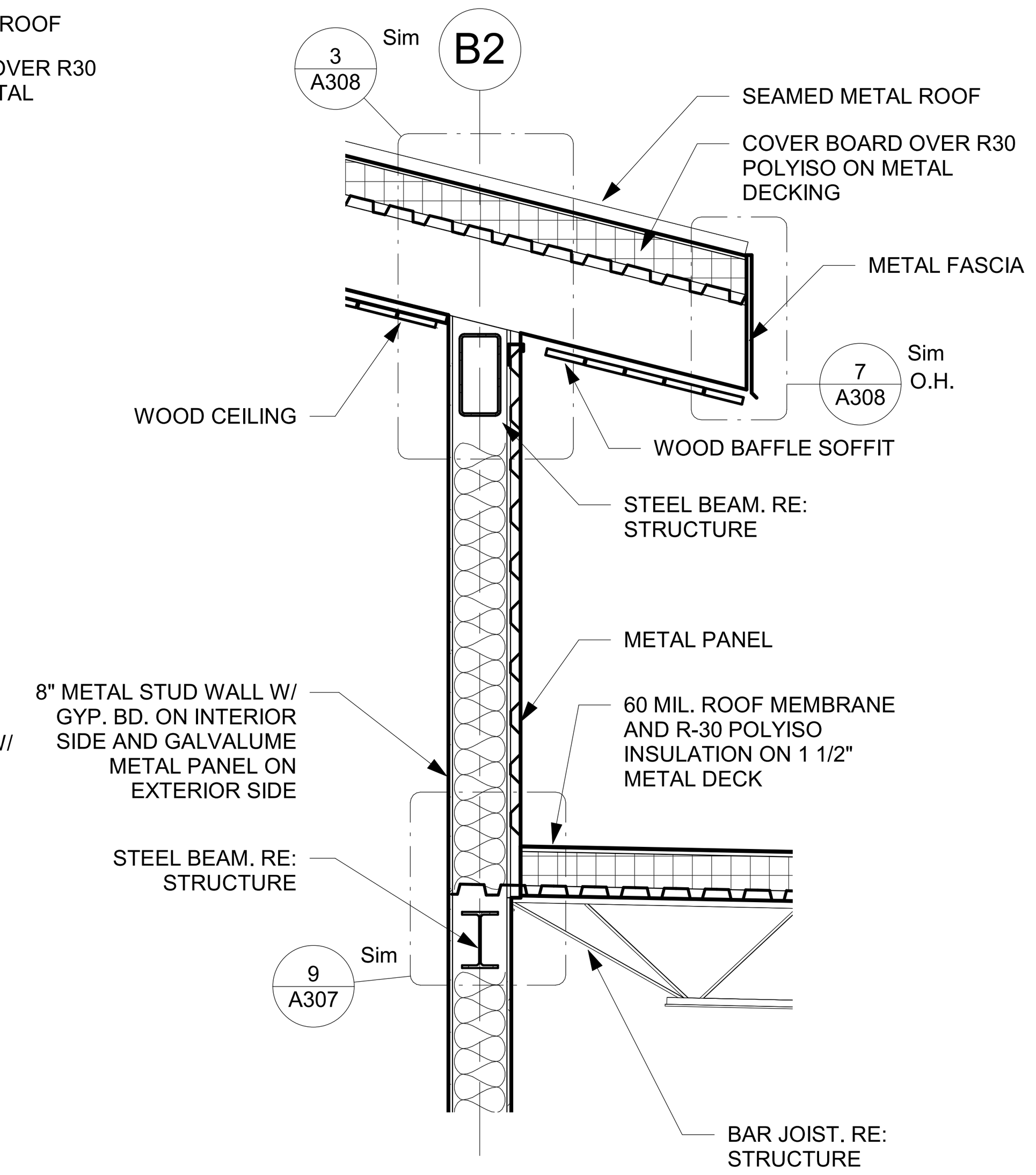
SHEET TITLE
PARTIAL BUILDING SECTIONS

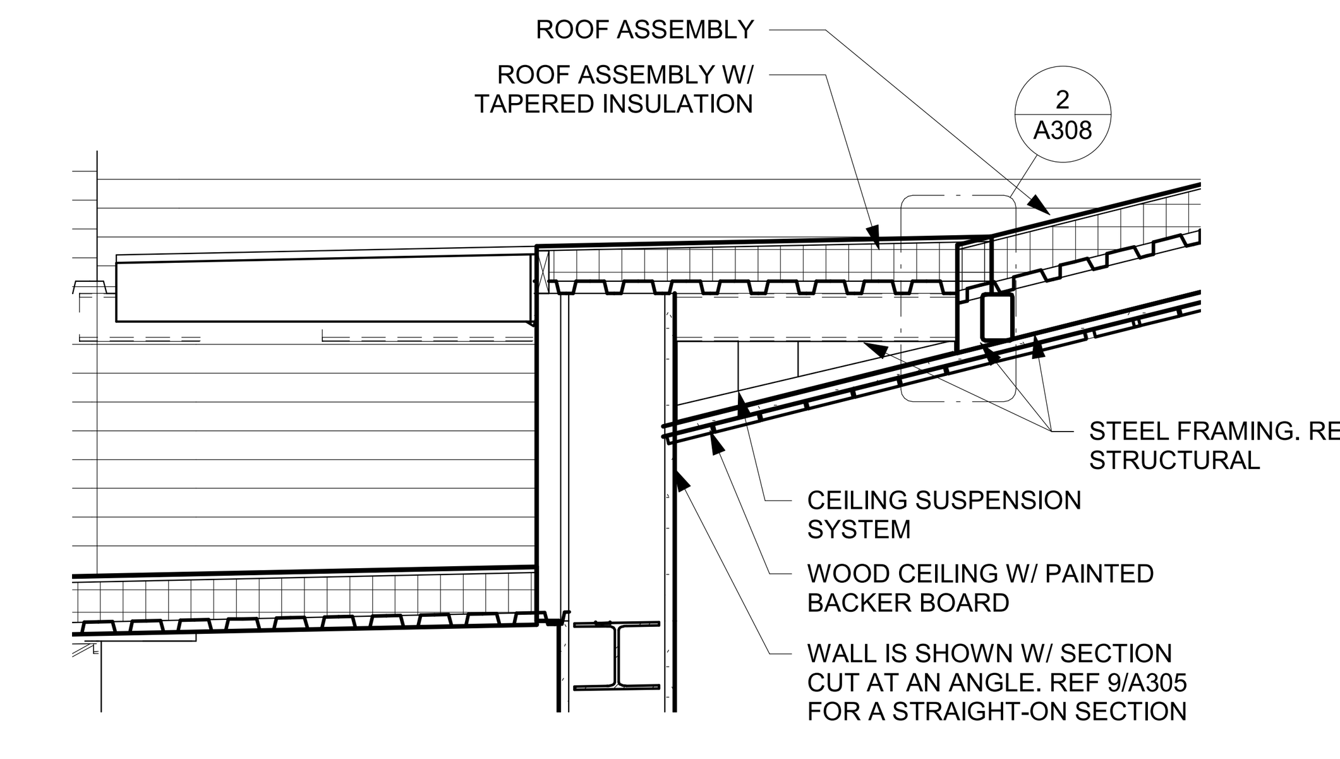
SHEET NUMBER
A304



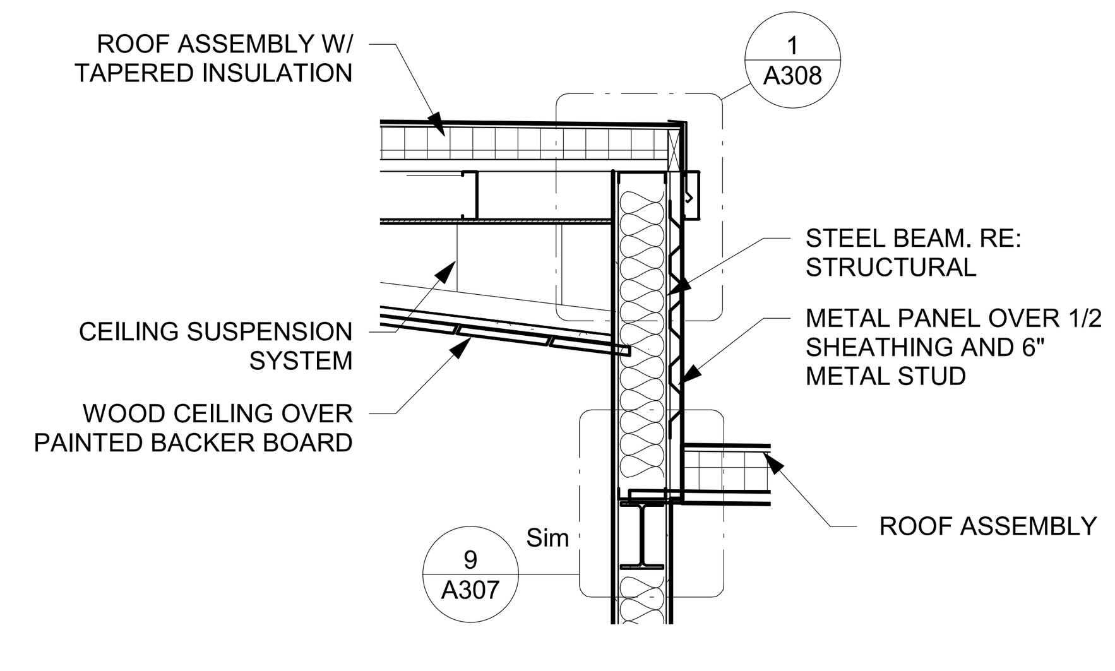
6 ROOF SECTION 1
SCALE: 1/2" = 1'-0"



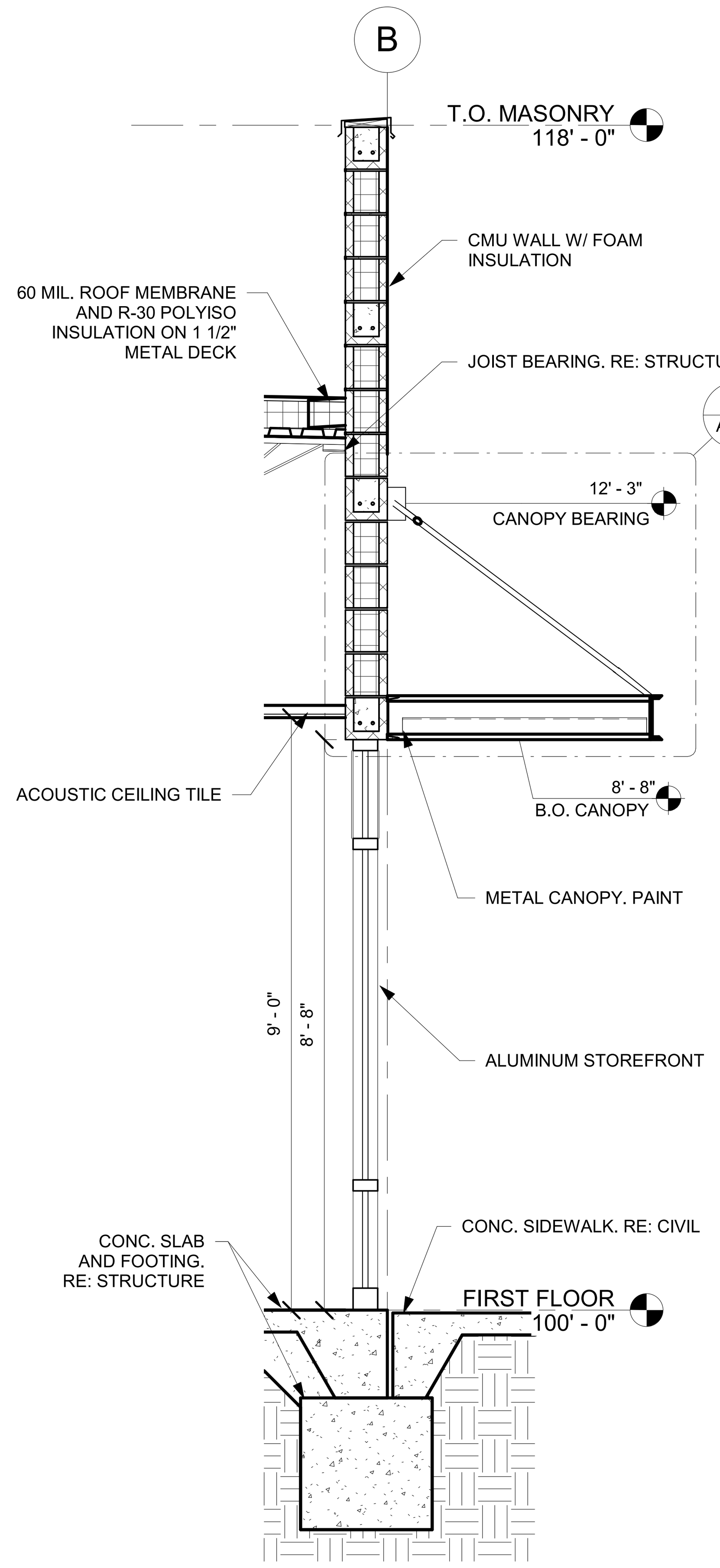
7 ROOF SECTION 2
SCALE: 1/2" = 1'-0"



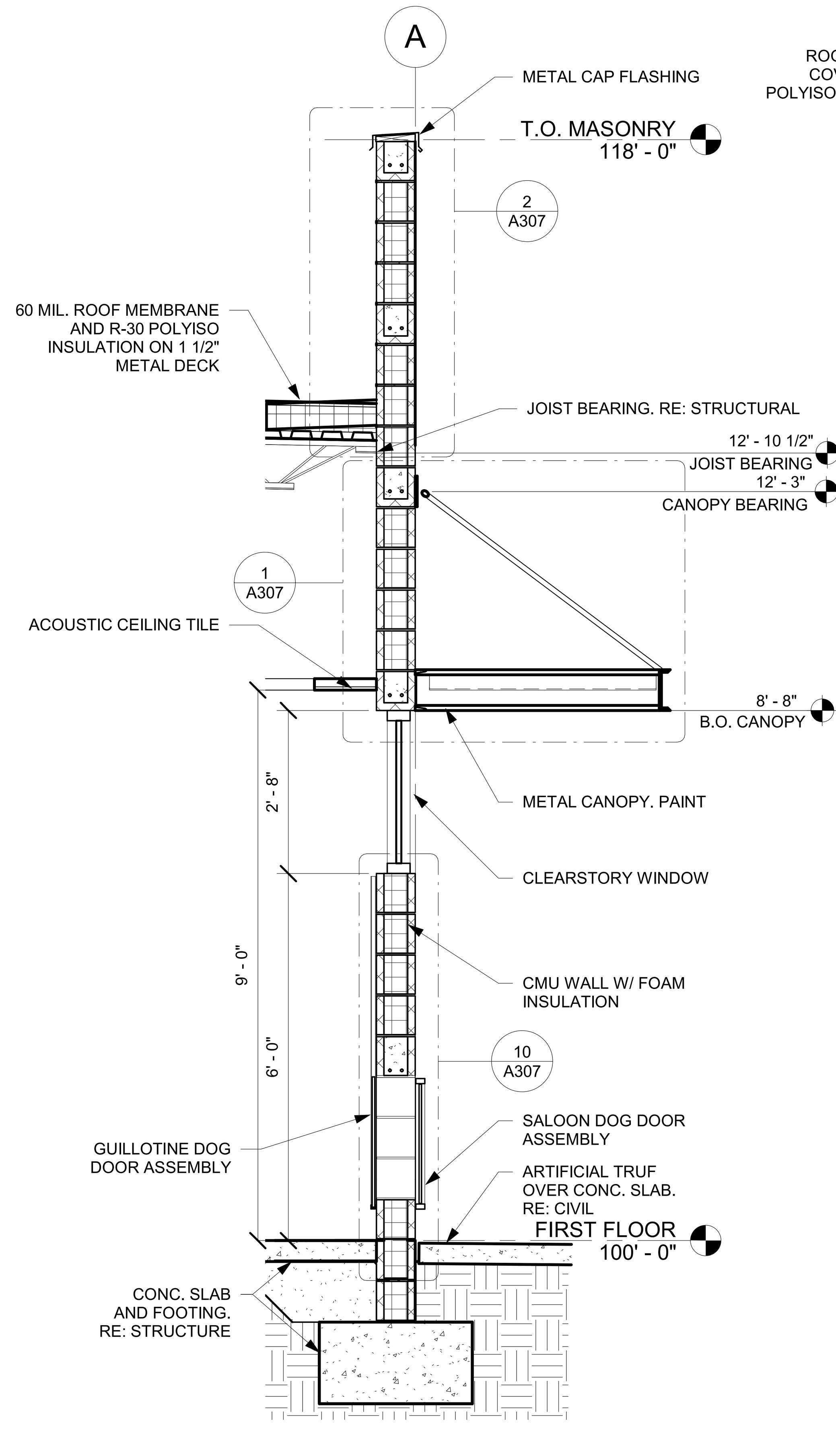
8 ROOF SECTION 3
SCALE: 1/2" = 1'-0"



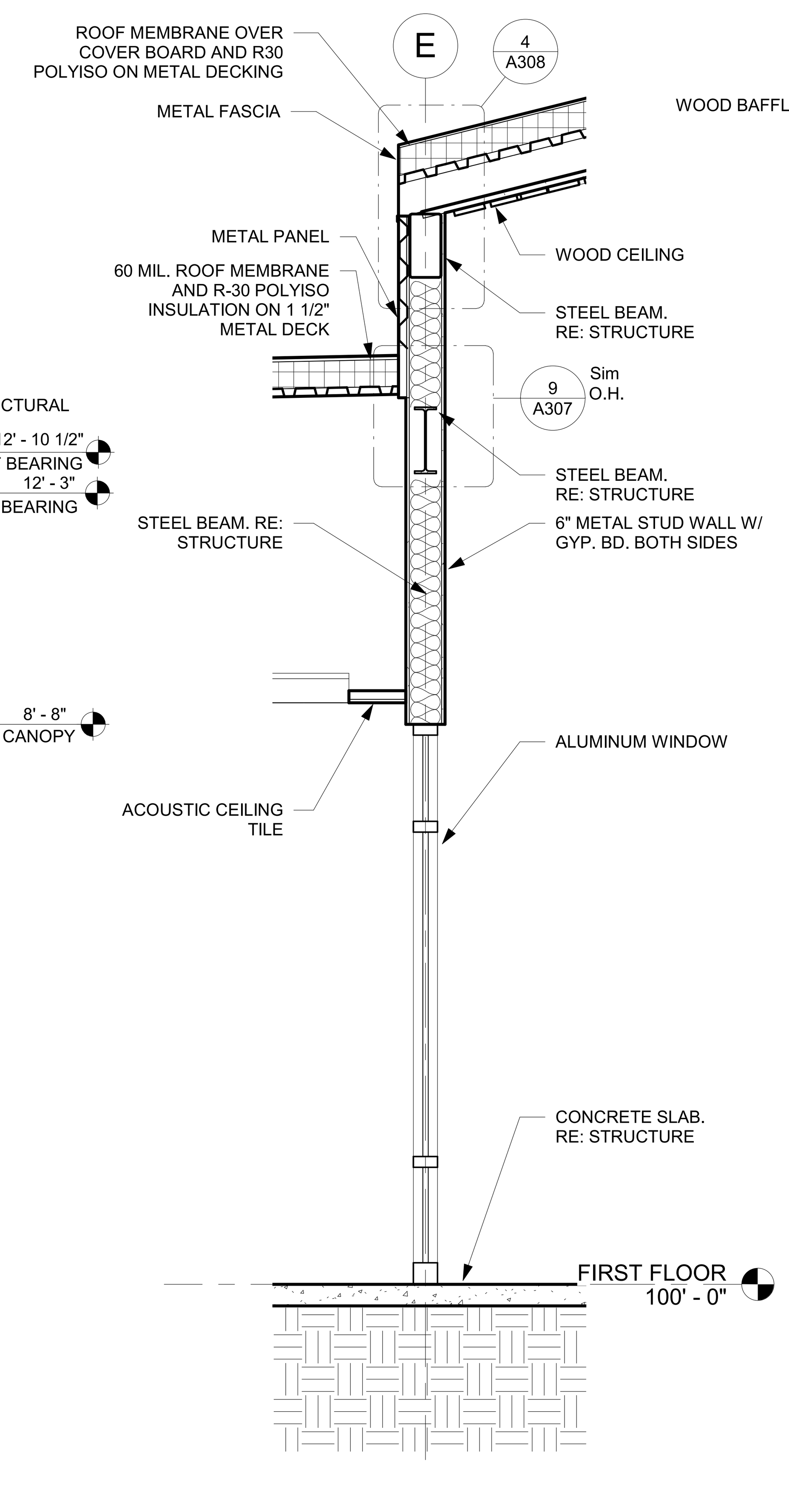
9 ROOF SECTION 4
SCALE: 1/2" = 1'-0"



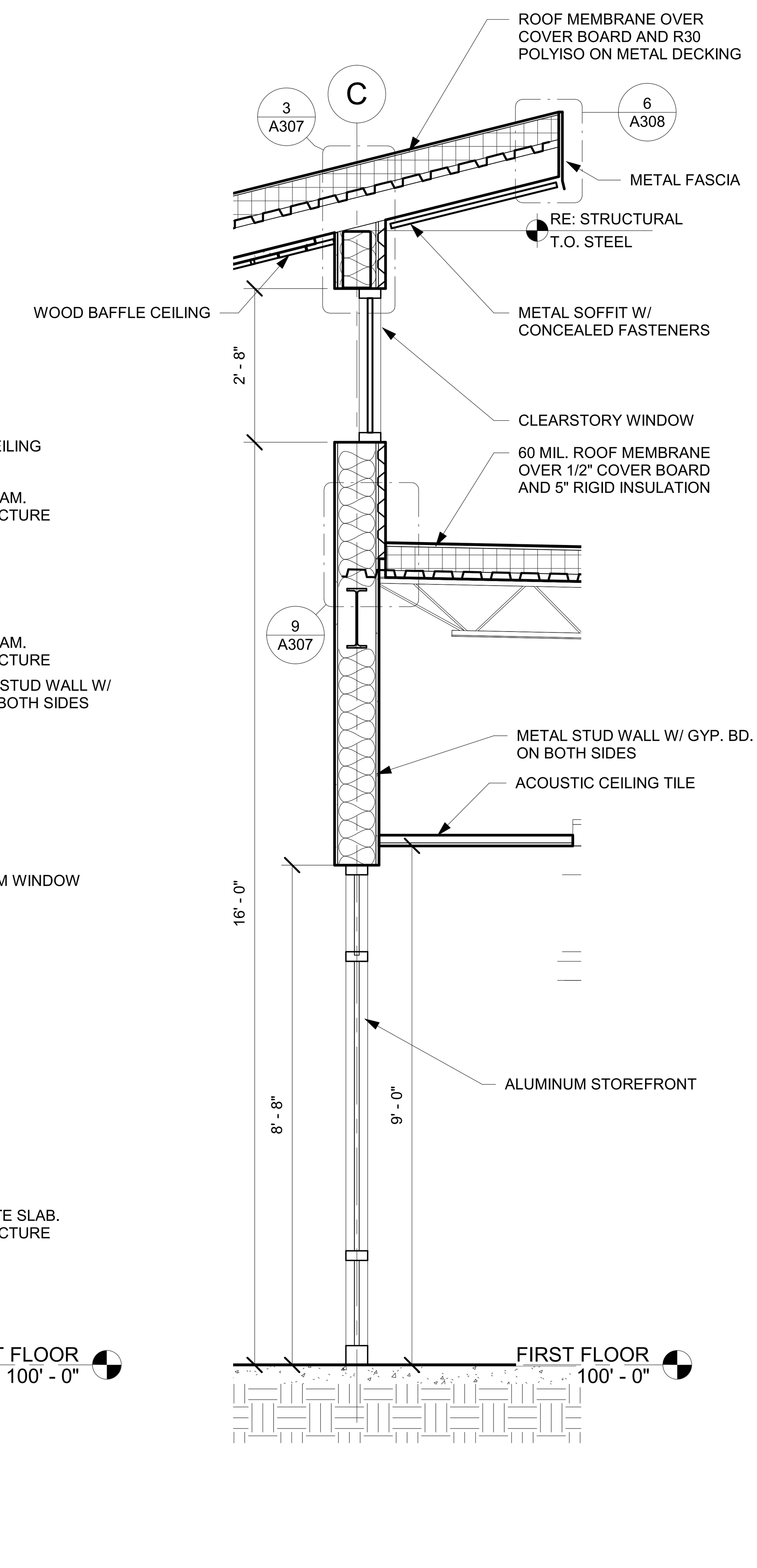
1 WALL SECTION 1
SCALE: 1/2" = 1'-0"



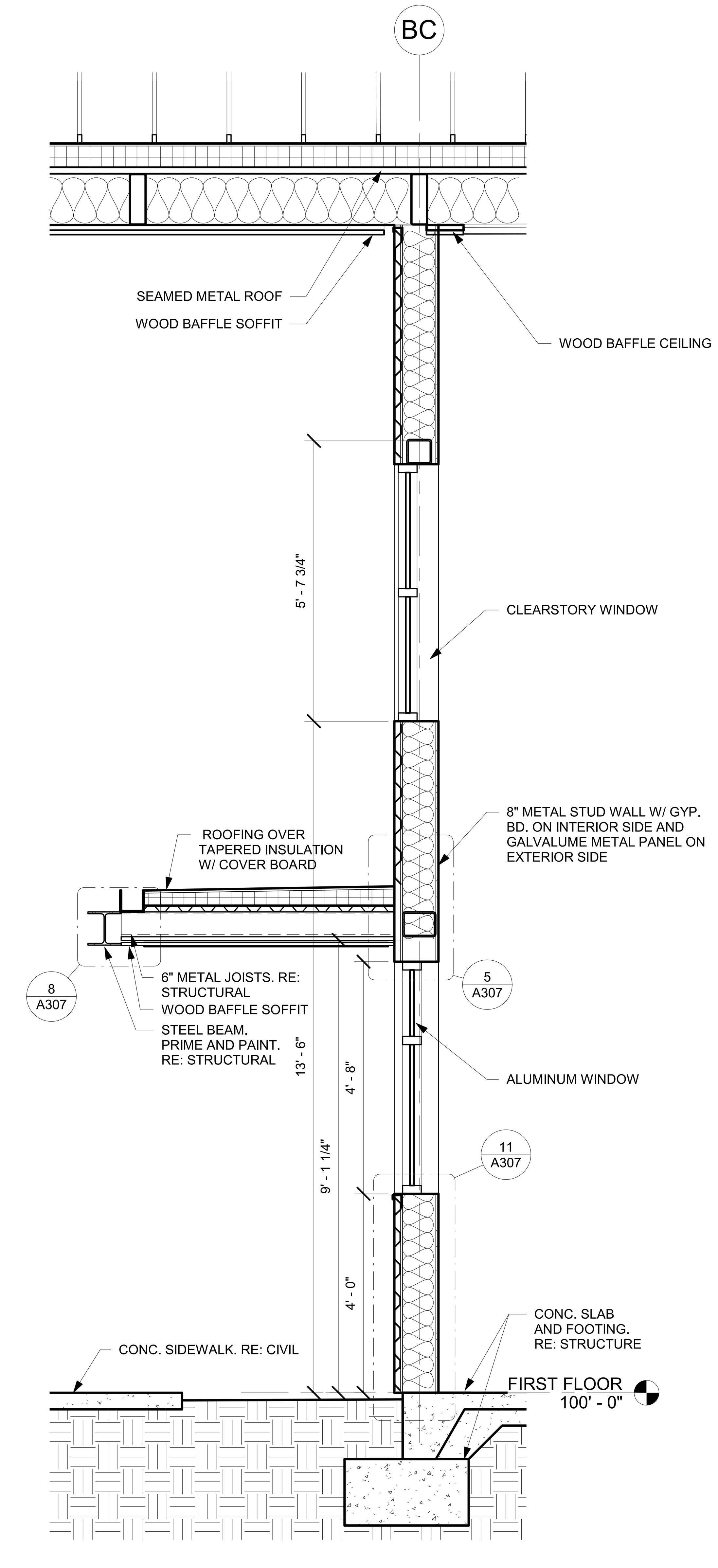
2 WALL SECTION 2
SCALE: 1/2" = 1'-0"



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

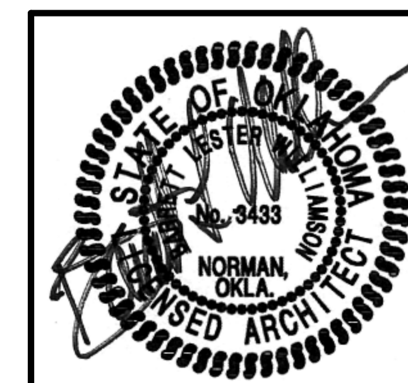


4 WALL SECTION 4
SCALE: 1/2" = 1'-0"



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

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



06/07/2022
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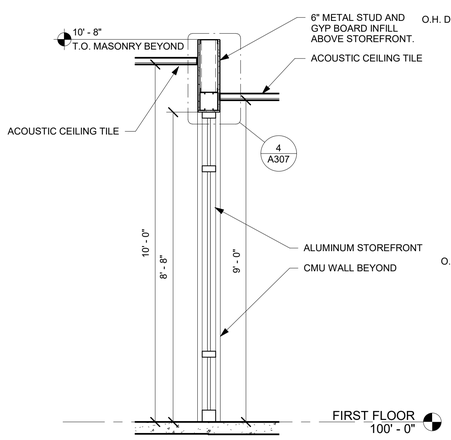
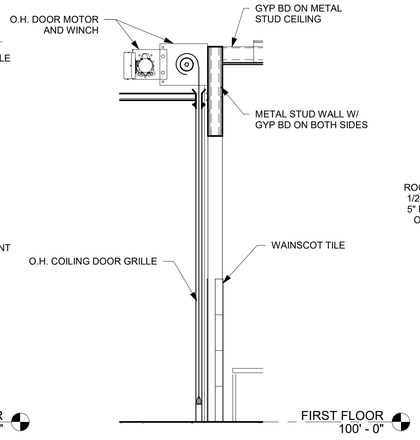
SHEET TITLE
WALL SECTIONS

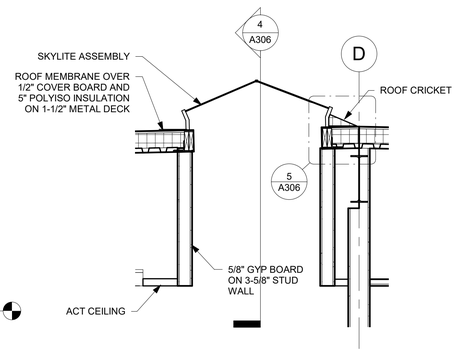
SHEET NUMBER
A305



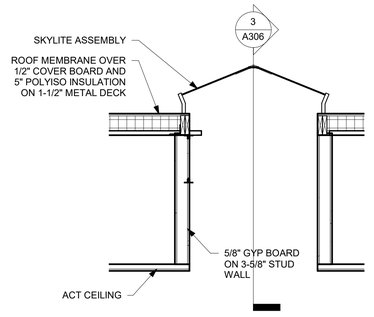
1 INTERIOR WALL SECTION 1
SCALE: 1/2" = 1'-0"



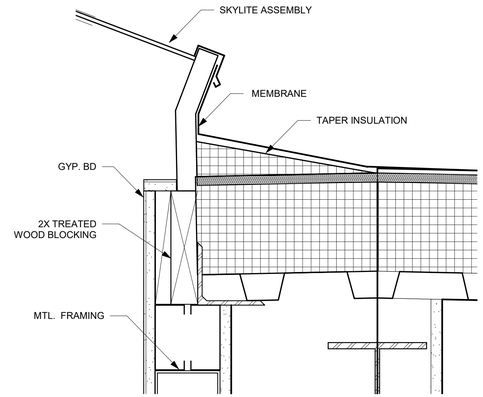
2 INTERIOR WALL SECTION 2
SCALE: 1/2" = 1'-0"



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



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



5 SKYLIGHT DETAIL
SCALE: 3" = 1'-0"

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

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

8 WALL SECTION 8
SCALE: 1/2" = 1'-0"

9 WALL SECTION 9
SCALE: 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

STATE OF OKLAHOMA
BARRETT L. WILLIAMSON
No. 9433
NORMAN, OKLA.
REGISTERED ARCHITECT

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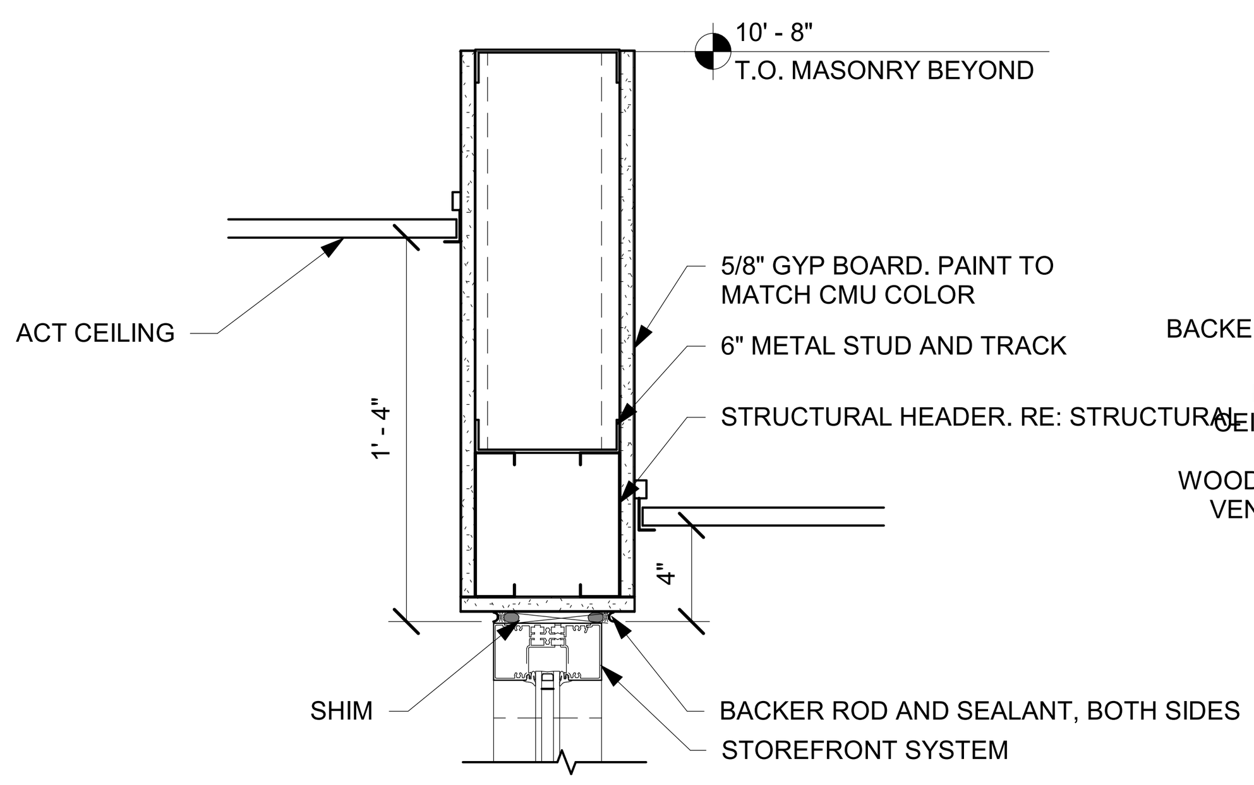
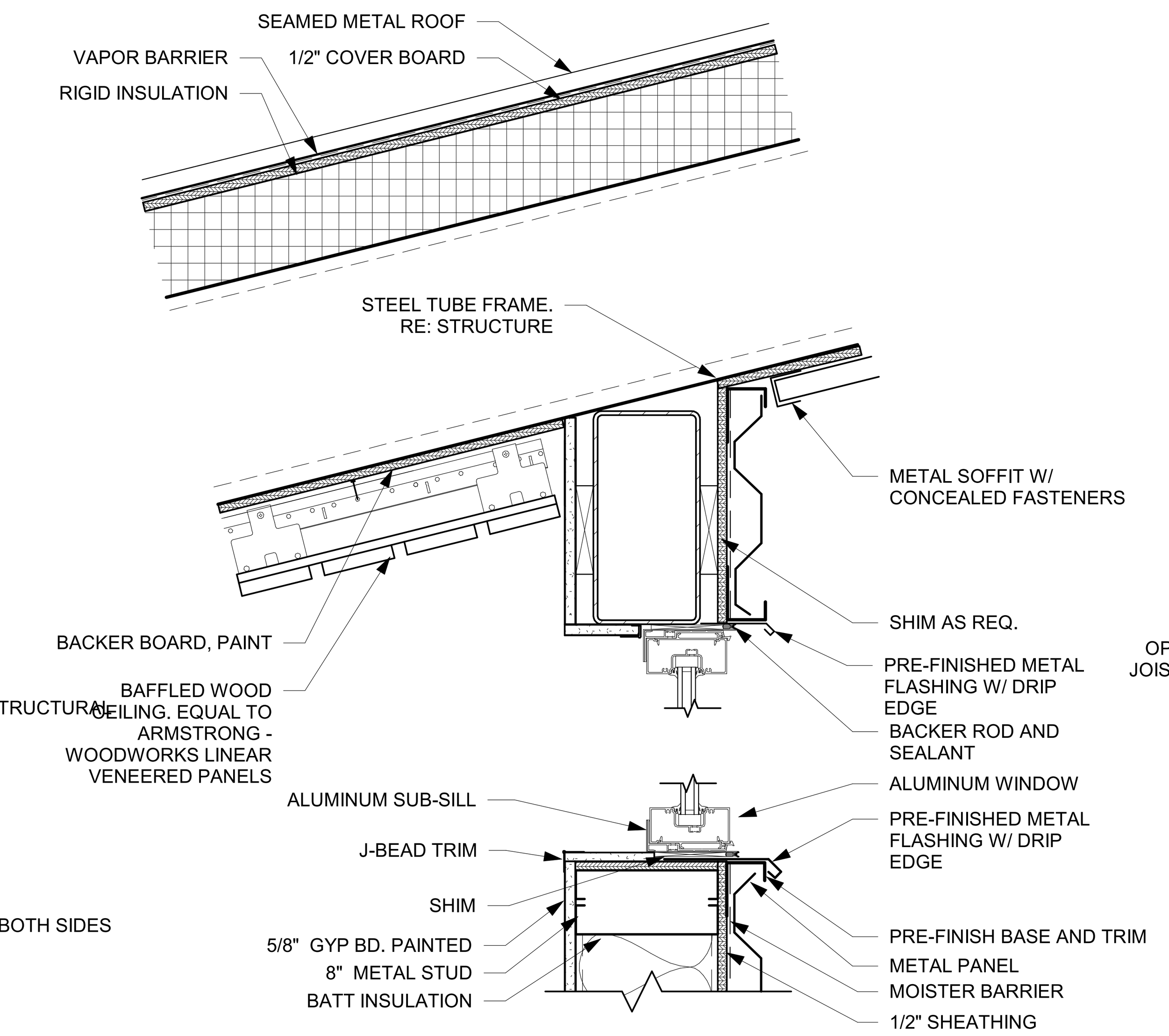
SHEET TITLE
WALL SECTIONS

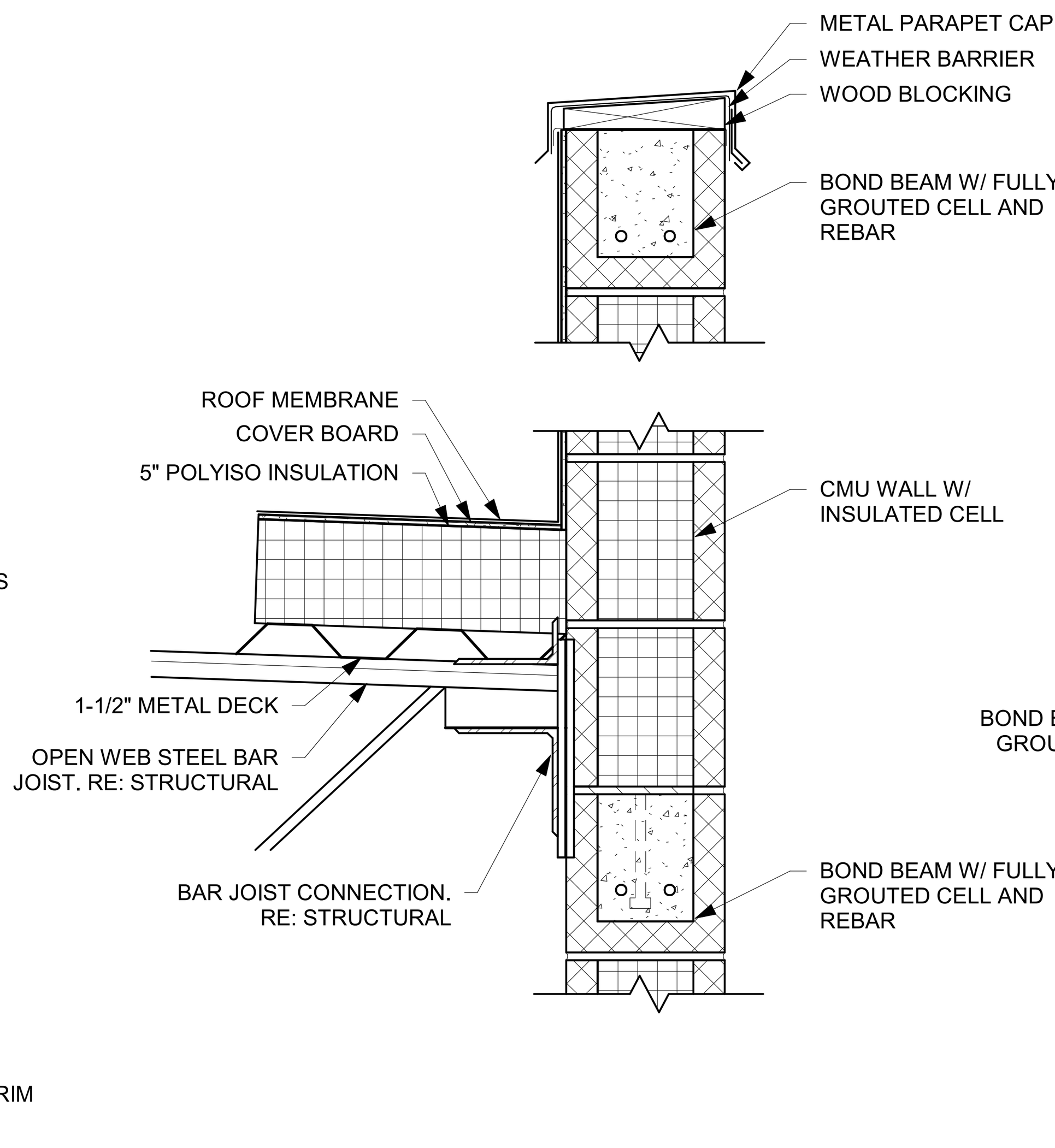
SHEET NUMBER
A306



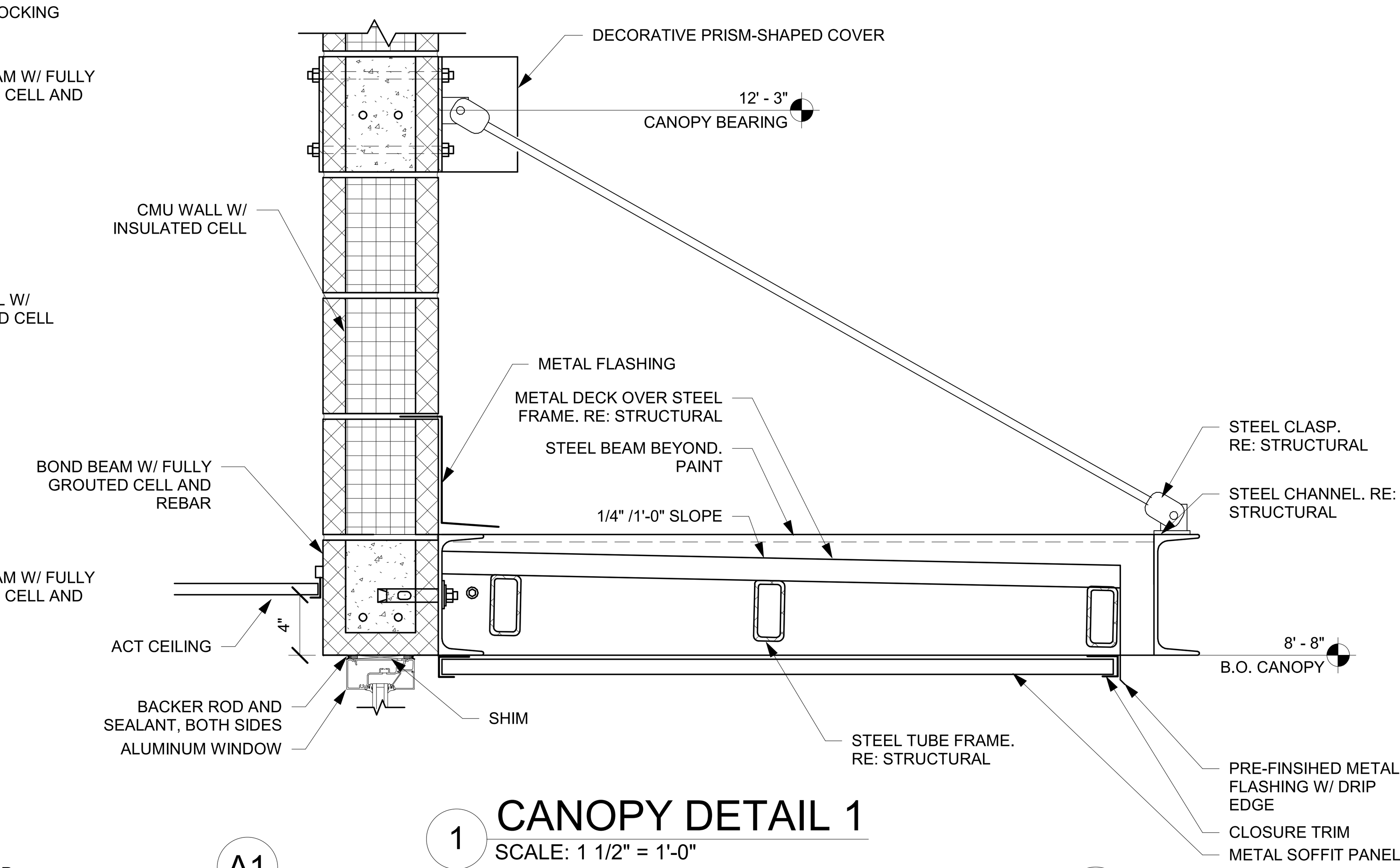
4 CORRIDOR CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



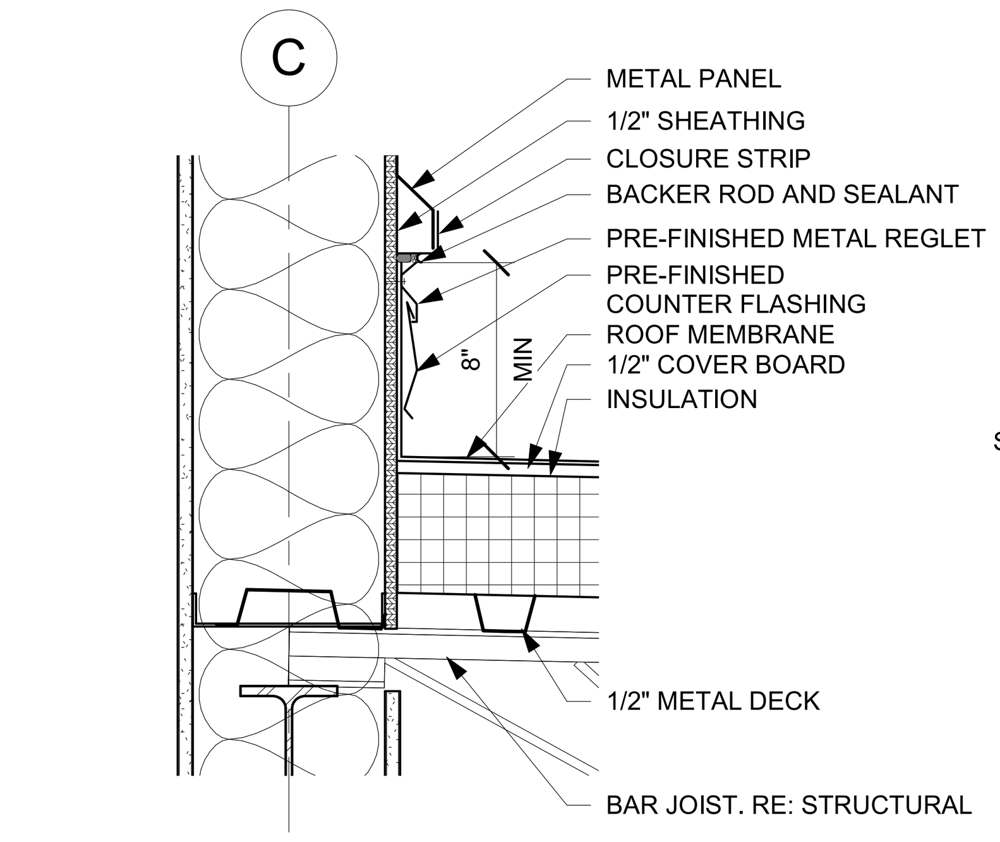
3 STUD WALL-ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



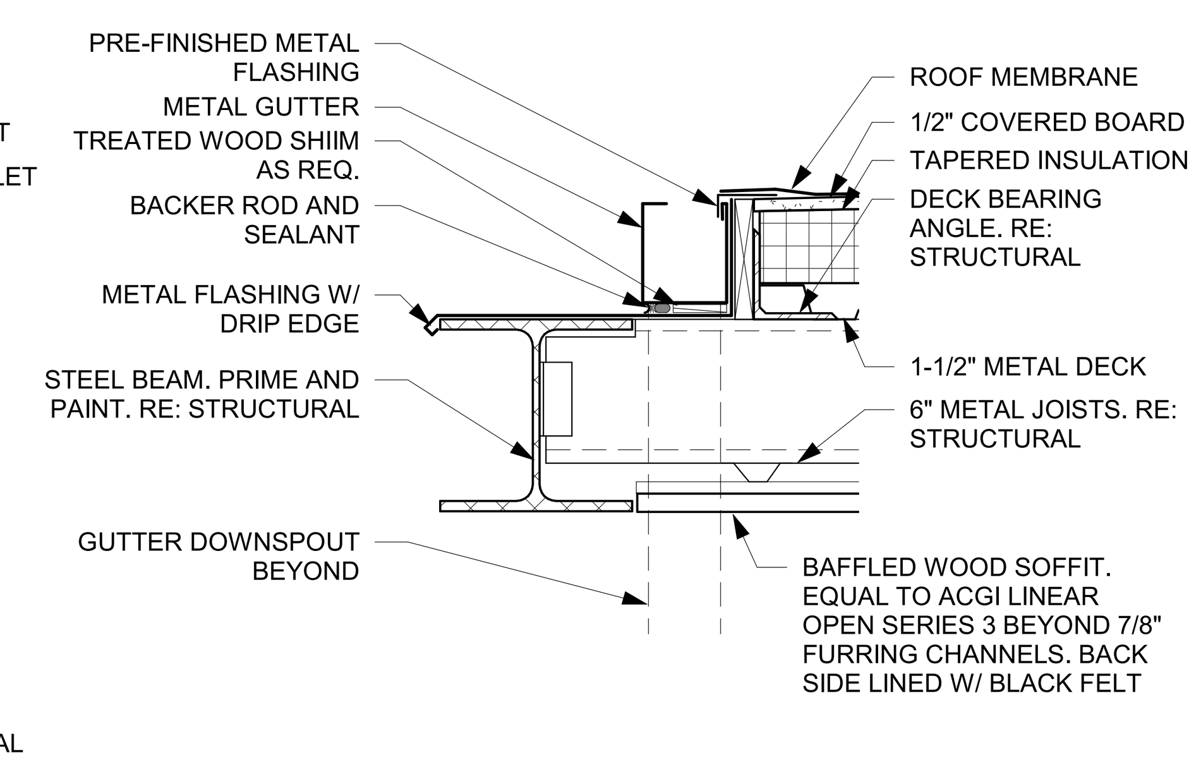
2 PARAPET DETIAL
SCALE: 1 1/2" = 1'-0"



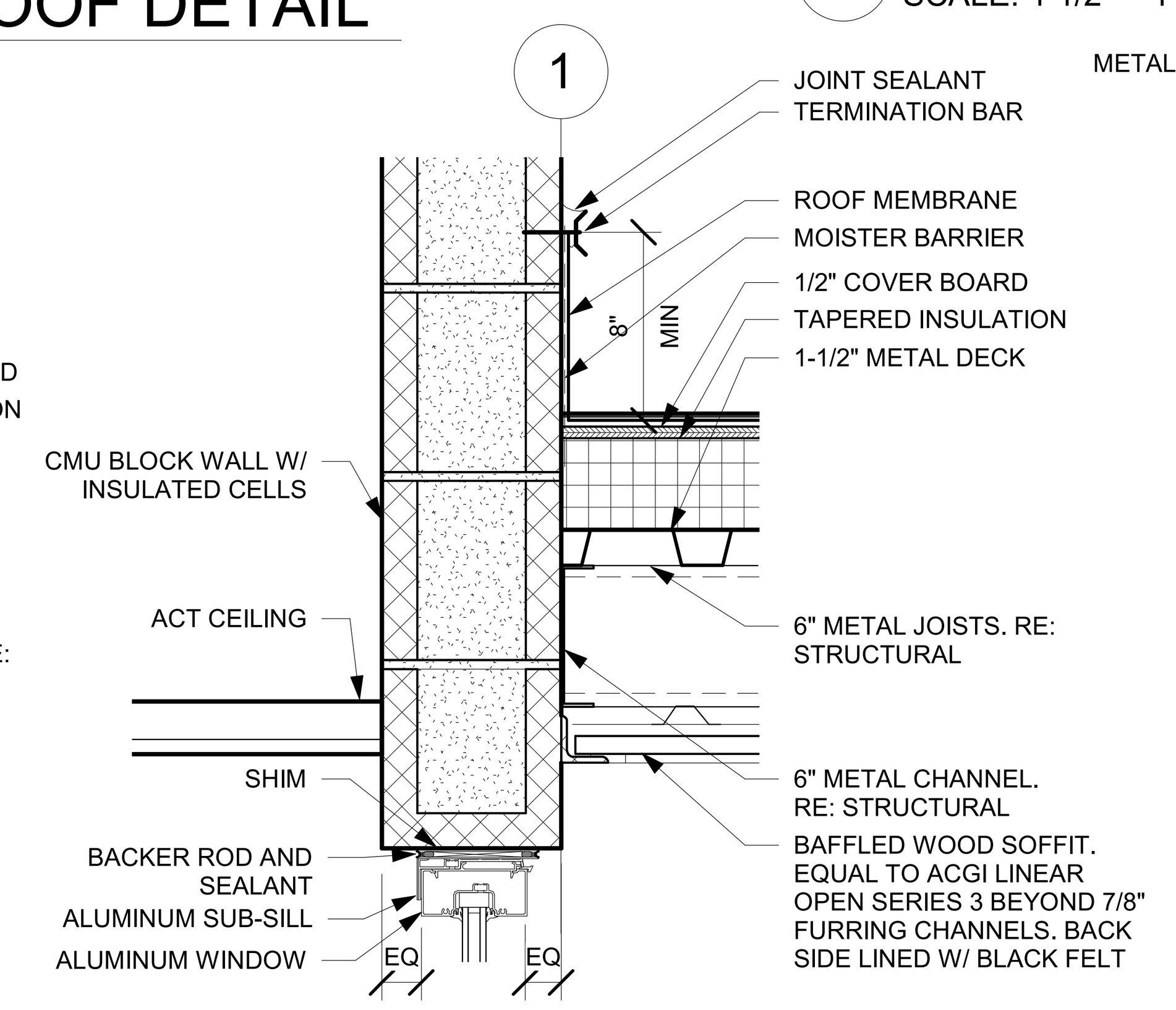
1 CANOPY DETAIL 1
SCALE: 1 1/2" = 1'-0"



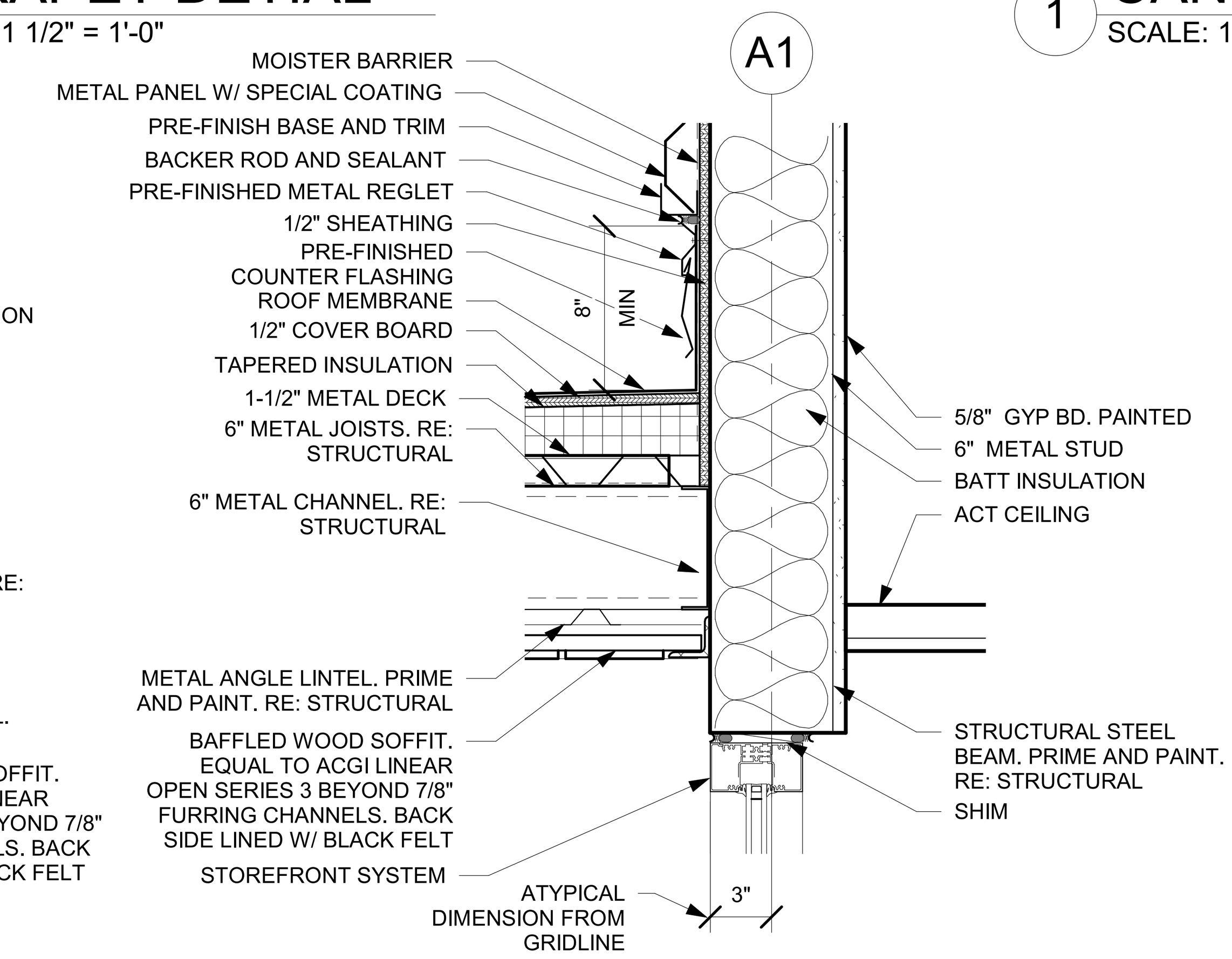
9 METAL PANEL @ ROOF
SCALE: 1 1/2" = 1'-0"



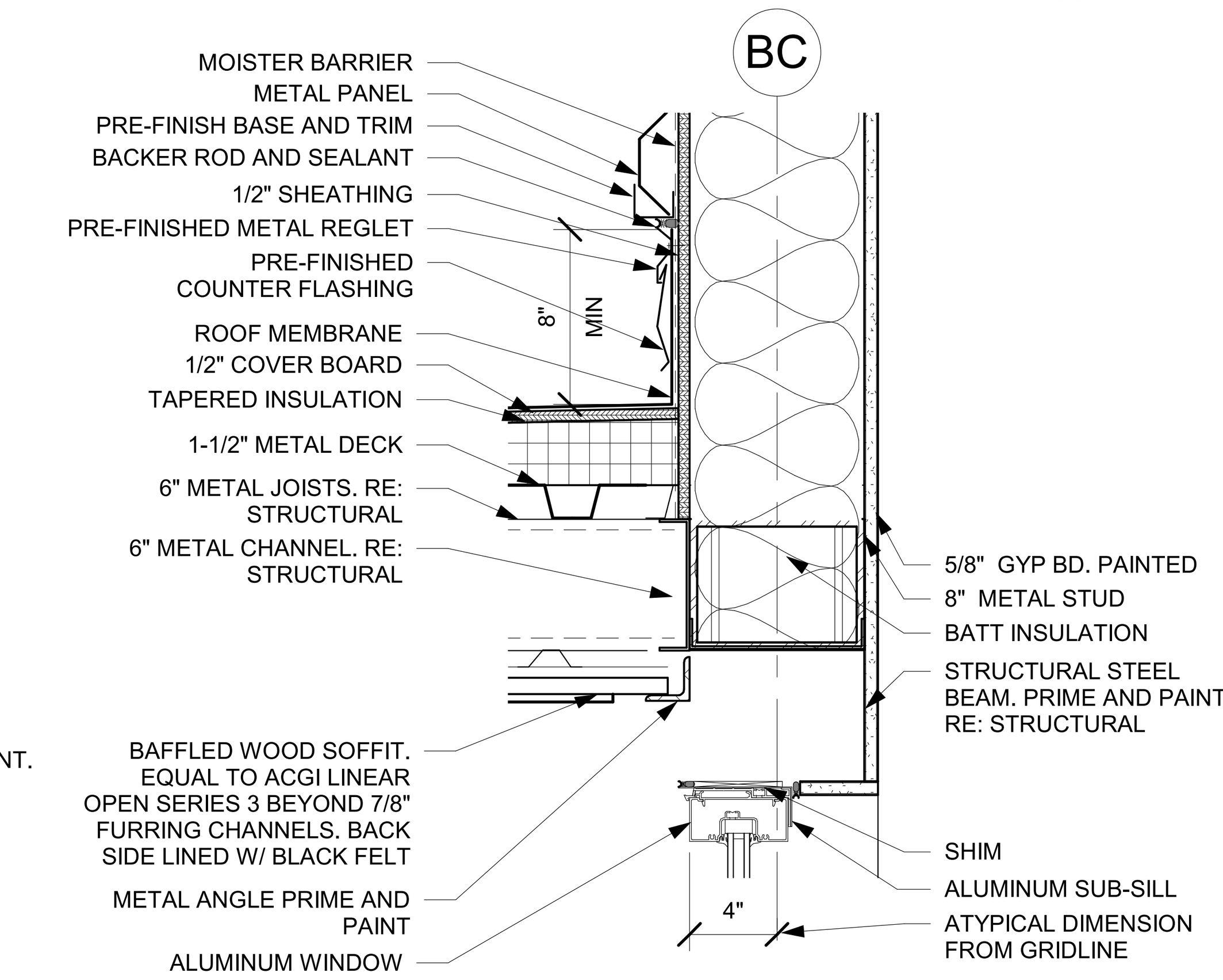
8 ENTRY CANOPY DETAIL @ EDGE
SCALE: 1 1/2" = 1'-0"



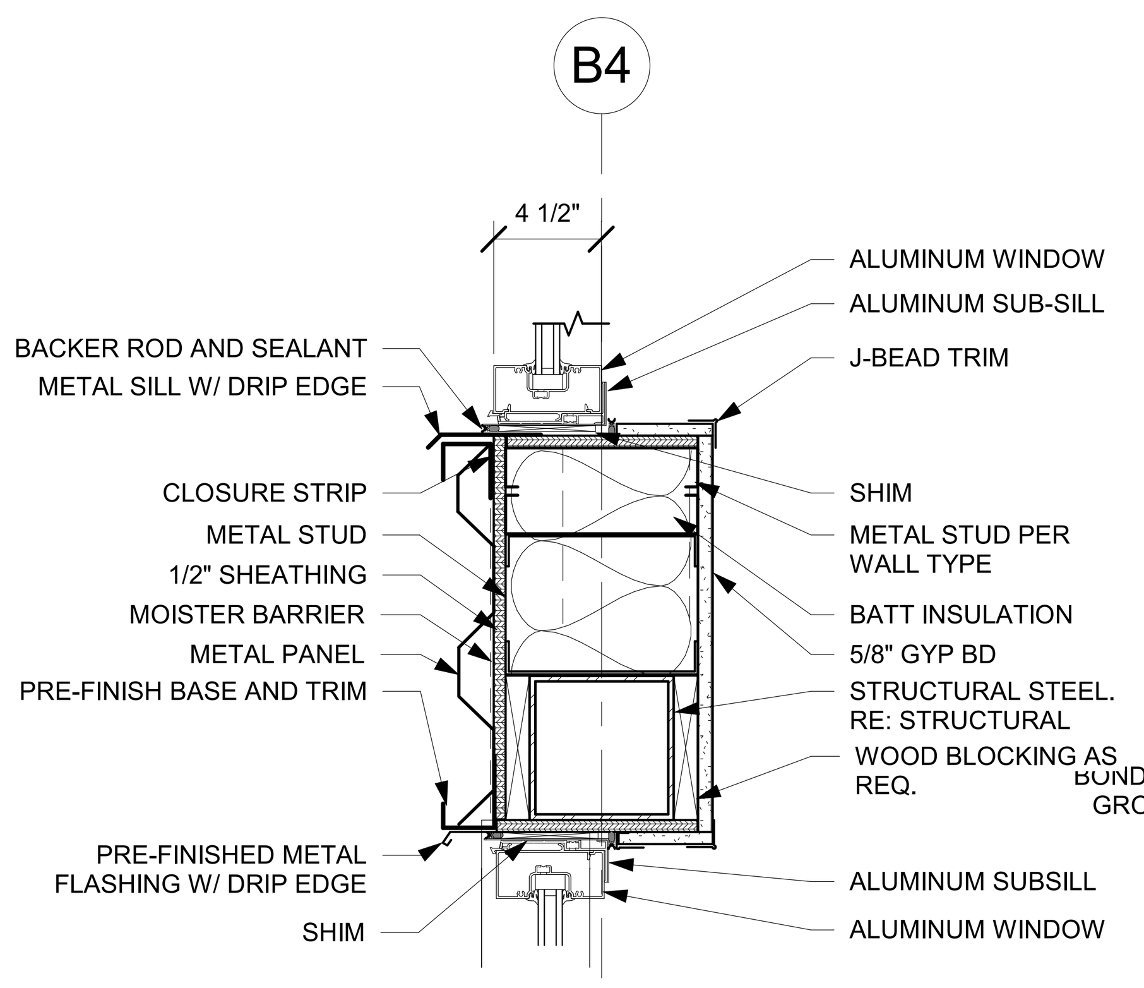
7 ENTRY CANOPY DETAIL 3
SCALE: 1 1/2" = 1'-0"



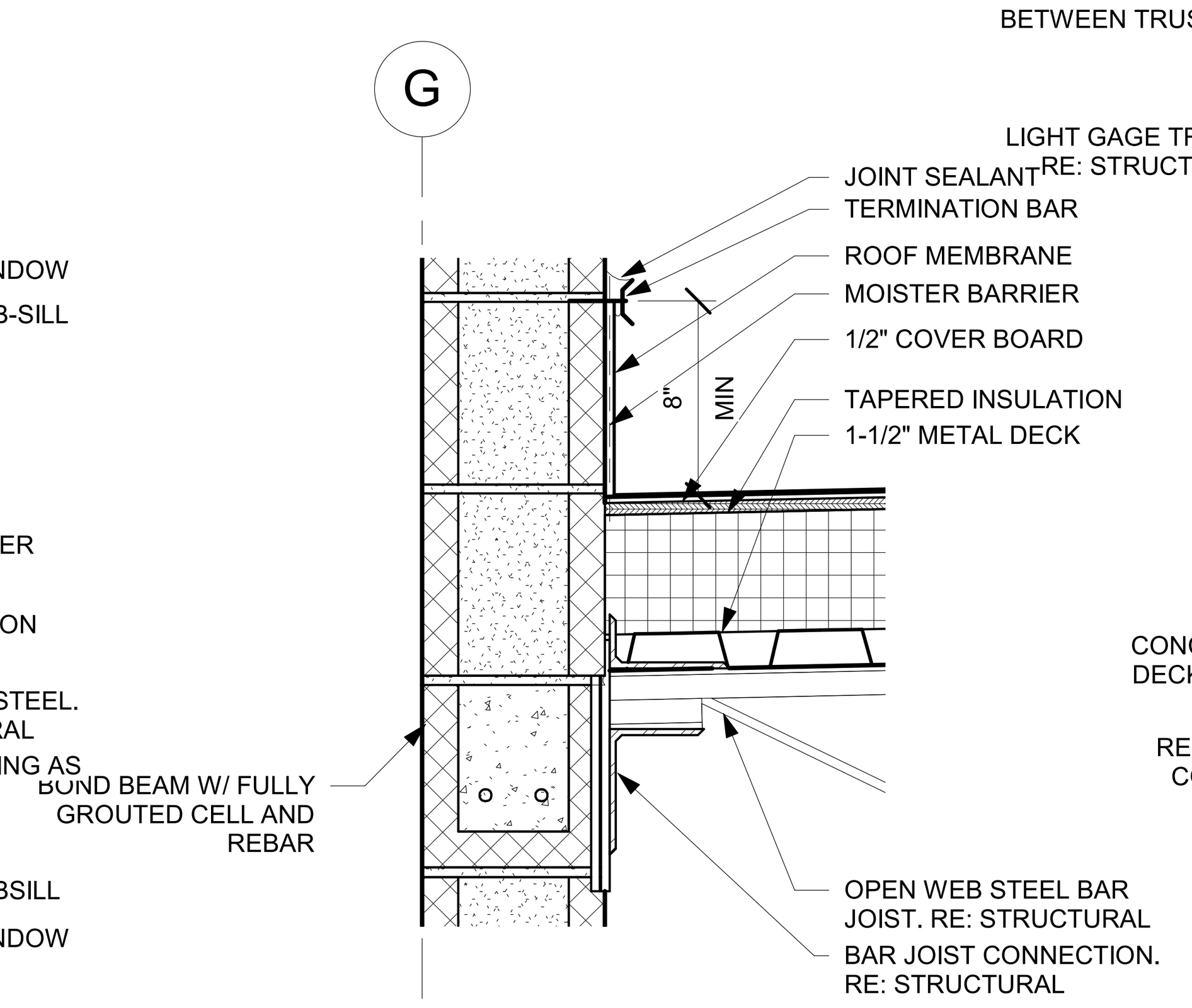
6 ENTRY CANOPY DETAIL 2
SCALE: 1 1/2" = 1'-0"



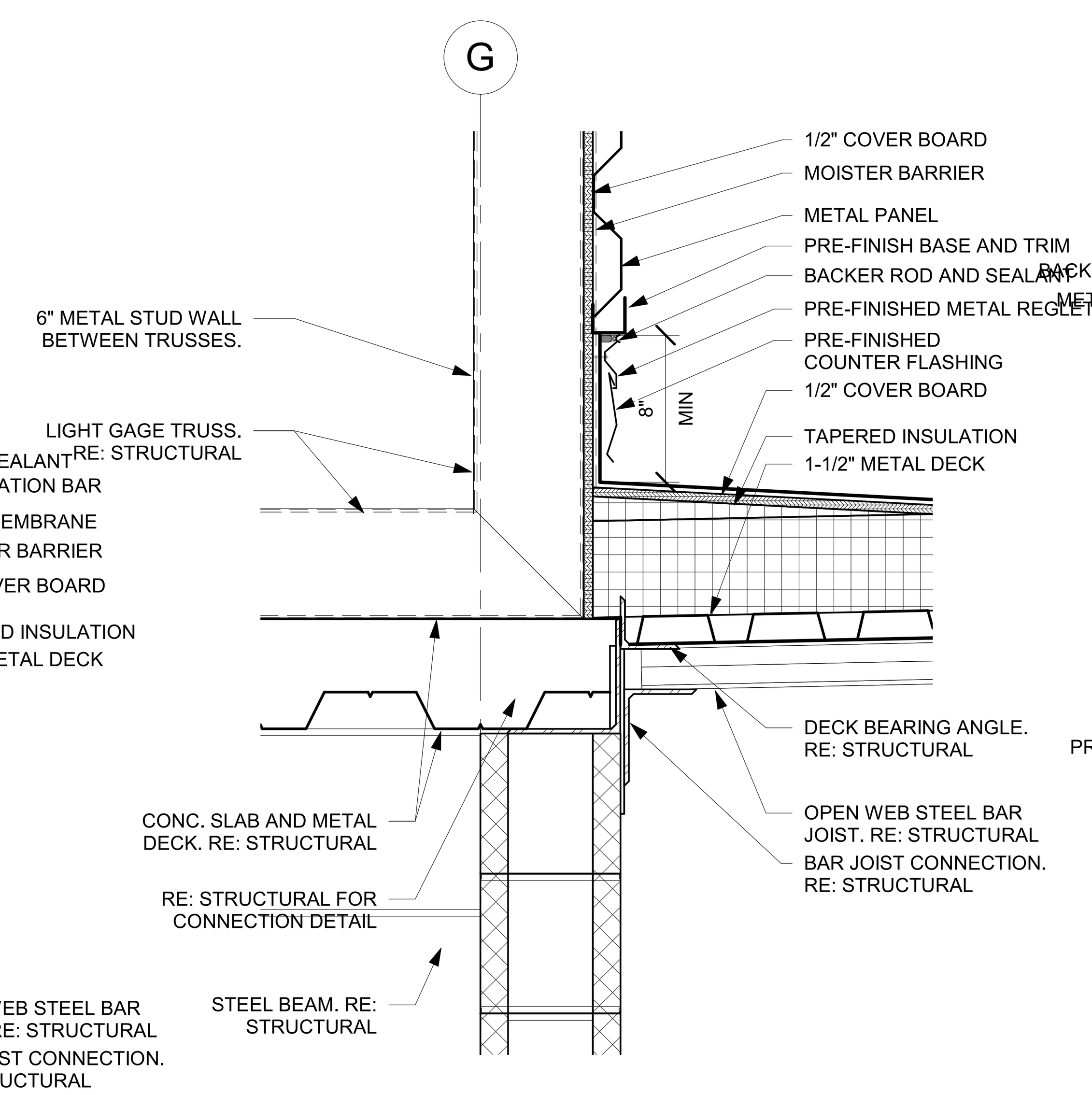
5 ENTRY CANOPY DETAIL 1
SCALE: 1 1/2" = 1'-0"



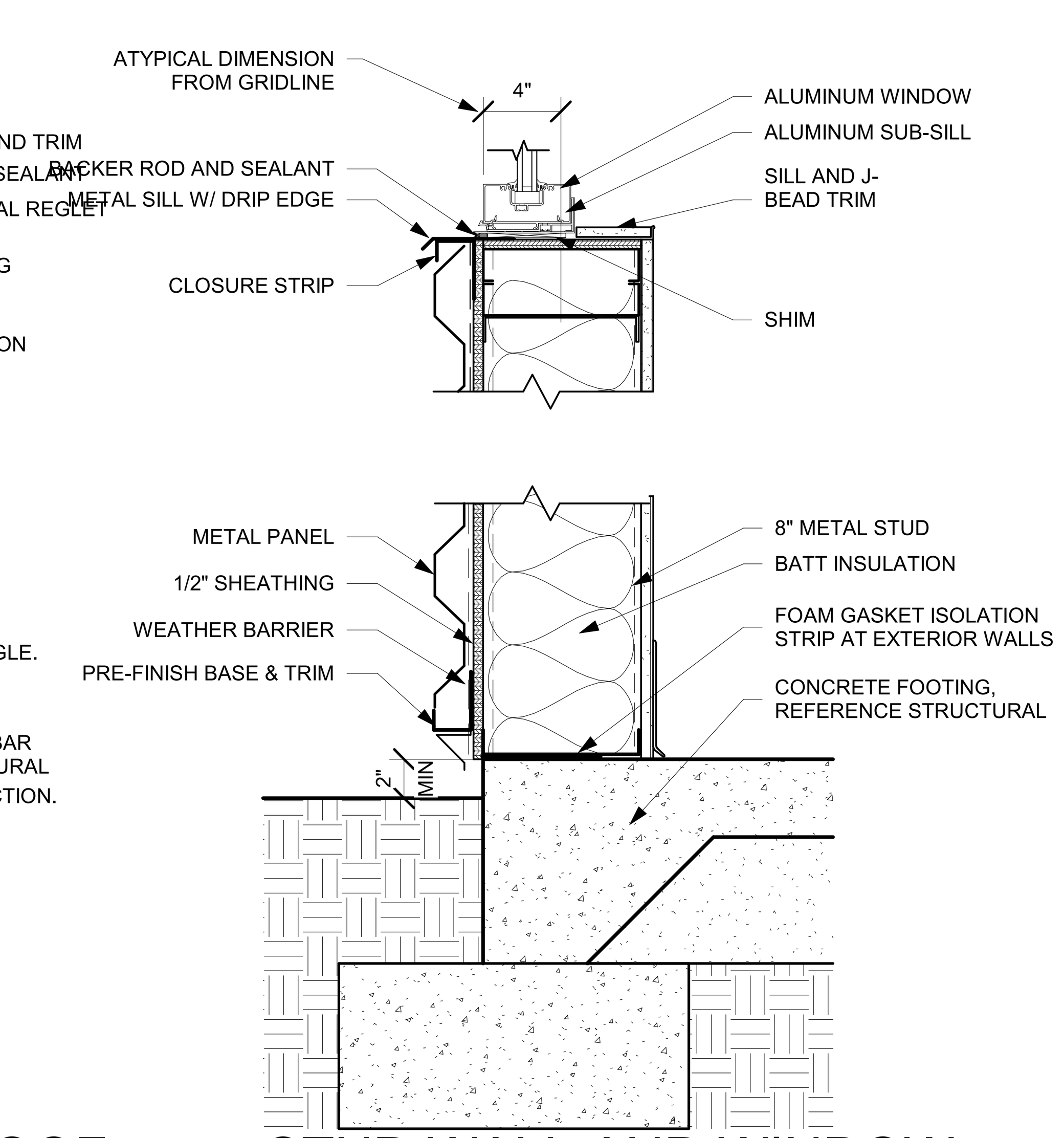
14 CLEARSTORY WDW DETAIL
SCALE: 1 1/2" = 1'-0"



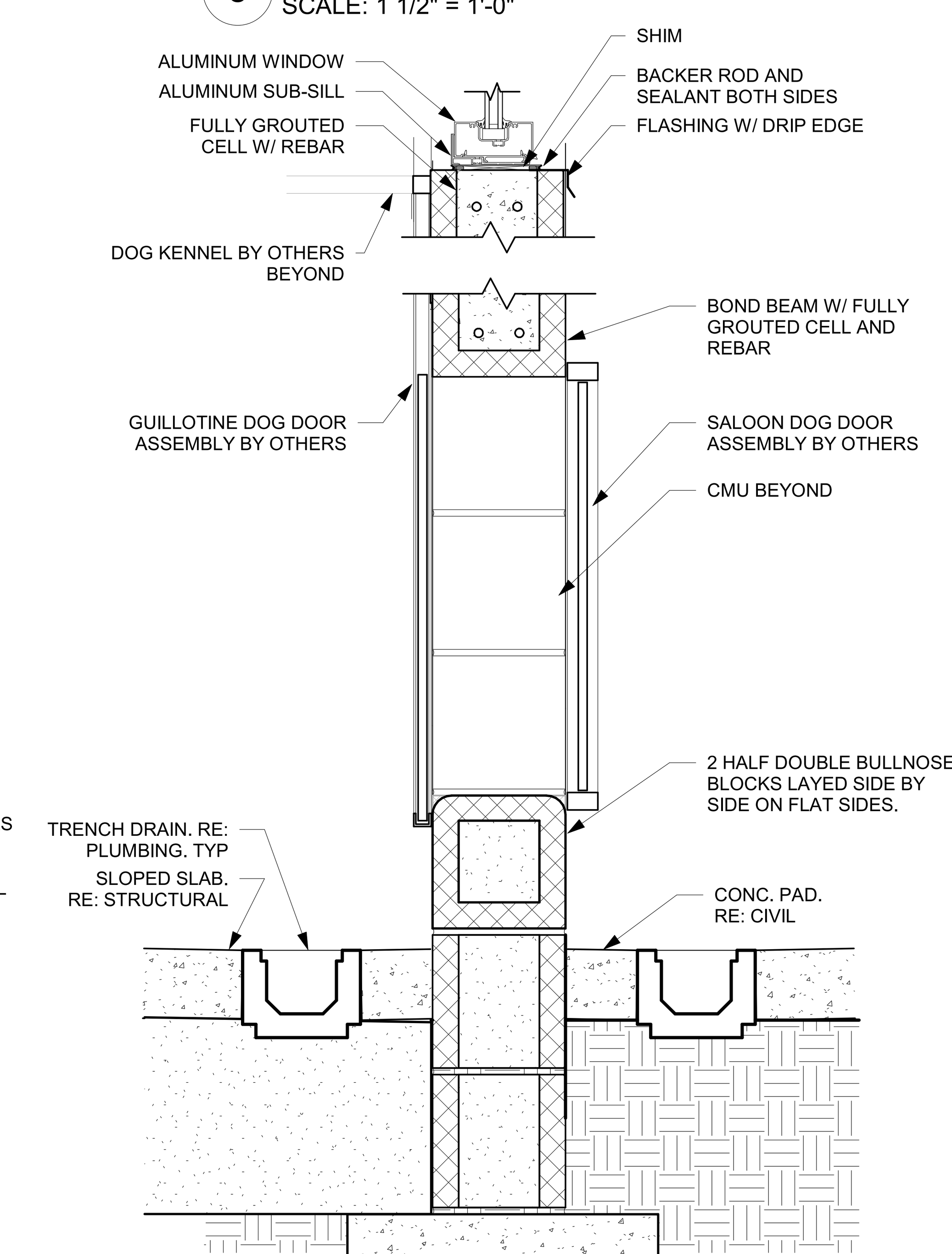
13 CMU @ ROOF
SCALE: 1 1/2" = 1'-0"



12 STORM SHELTER METAL PANEL @ ROOF
SCALE: 1 1/2" = 1'-0"

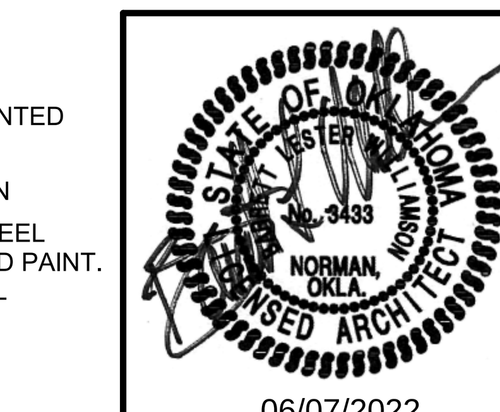


11 STUD WALL AND WINDOW
SCALE: 1 1/2" = 1'-0"



10 GULLOTINE DOOR DETAIL
SCALE: 1 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



06/07/2022
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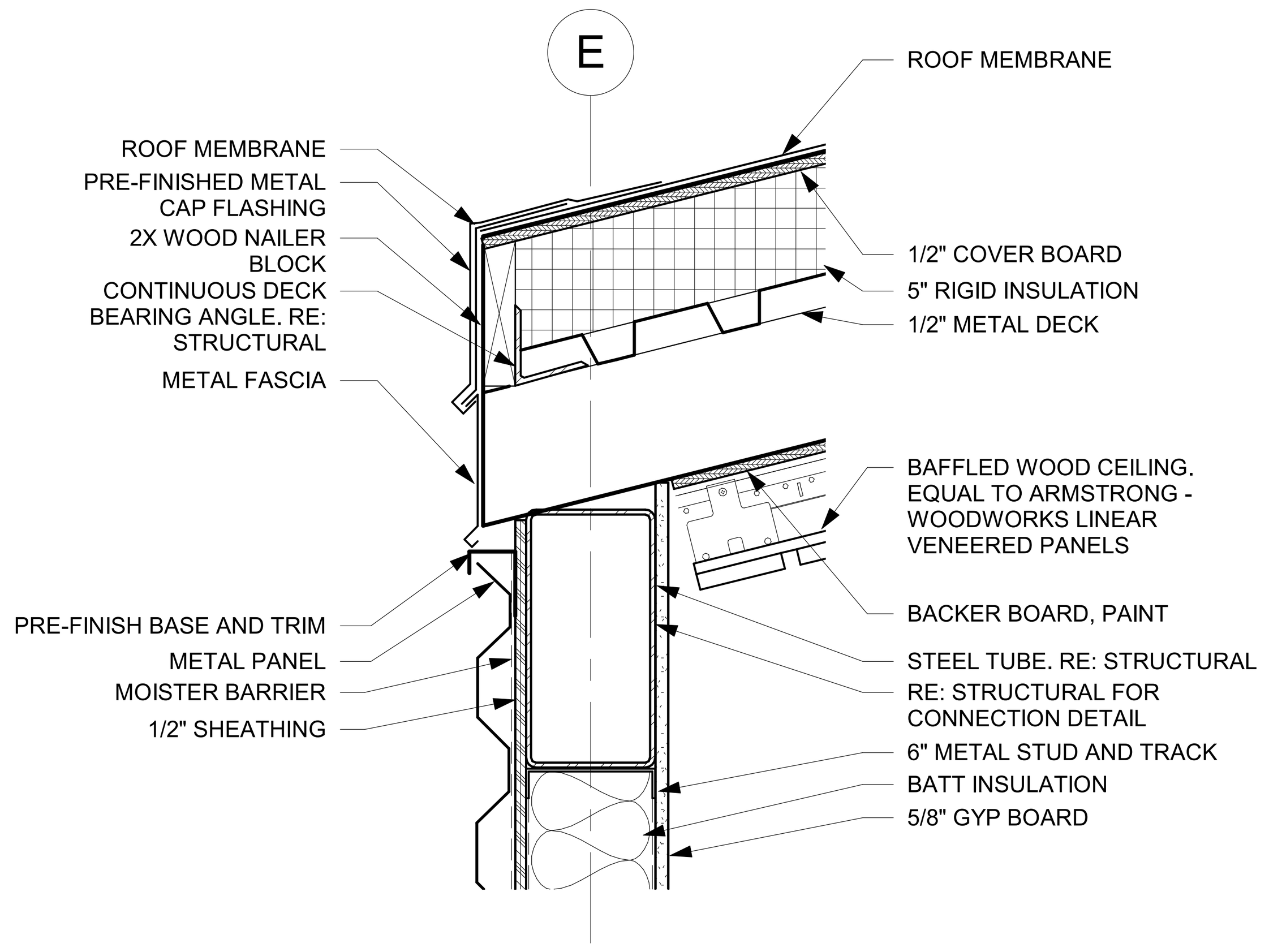
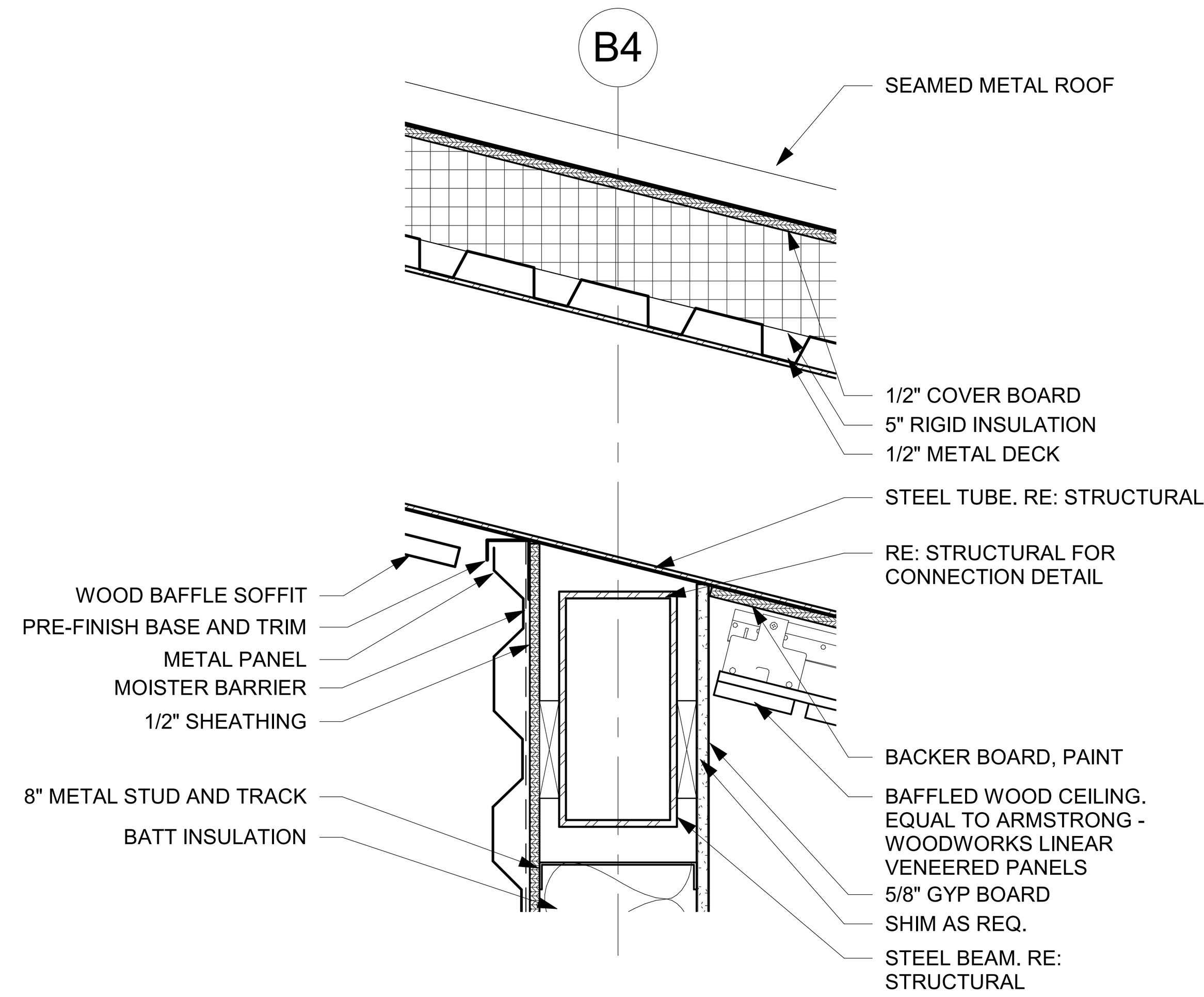
SECTION DETAILS

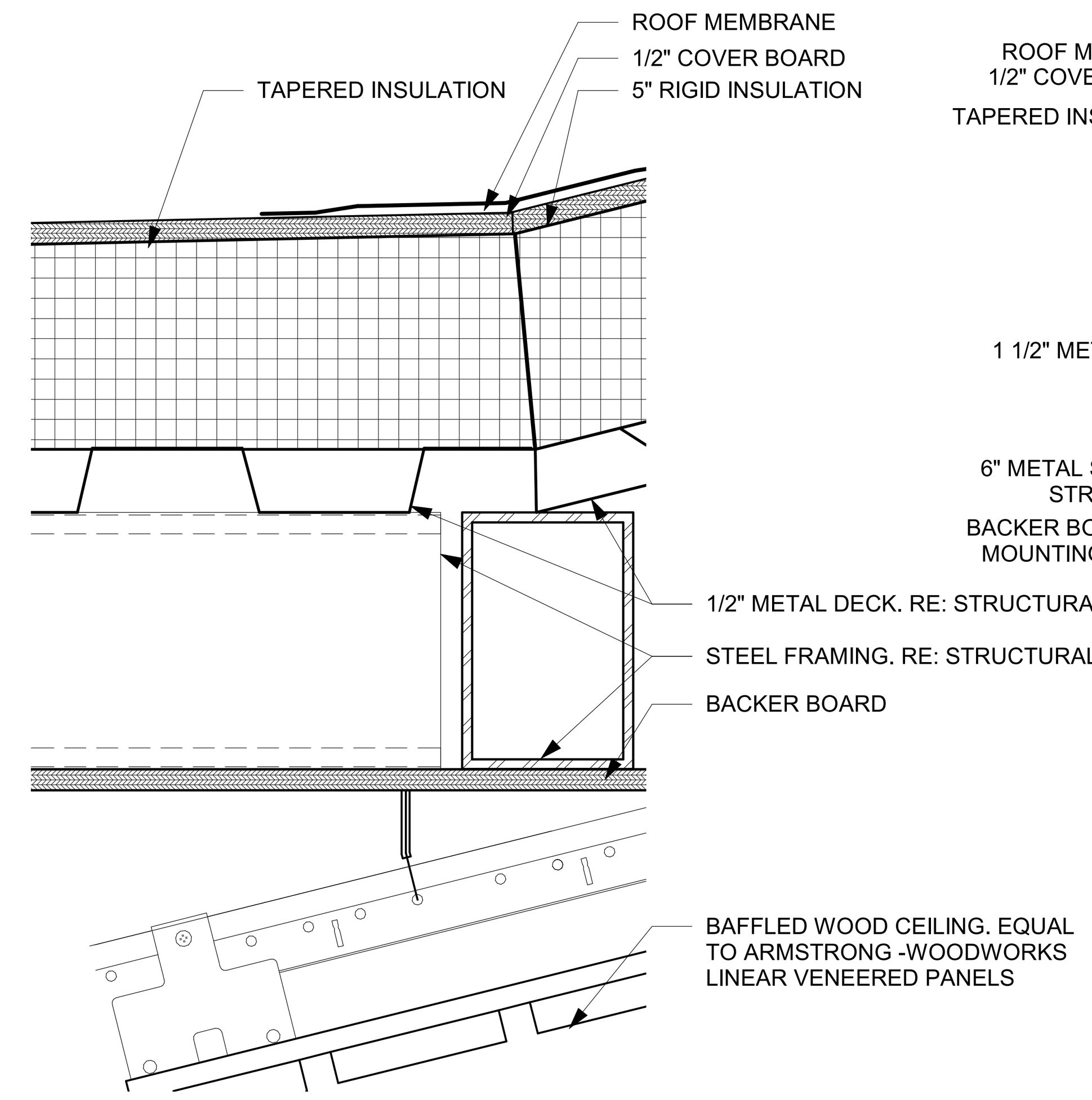
SHEET NUMBER
A307



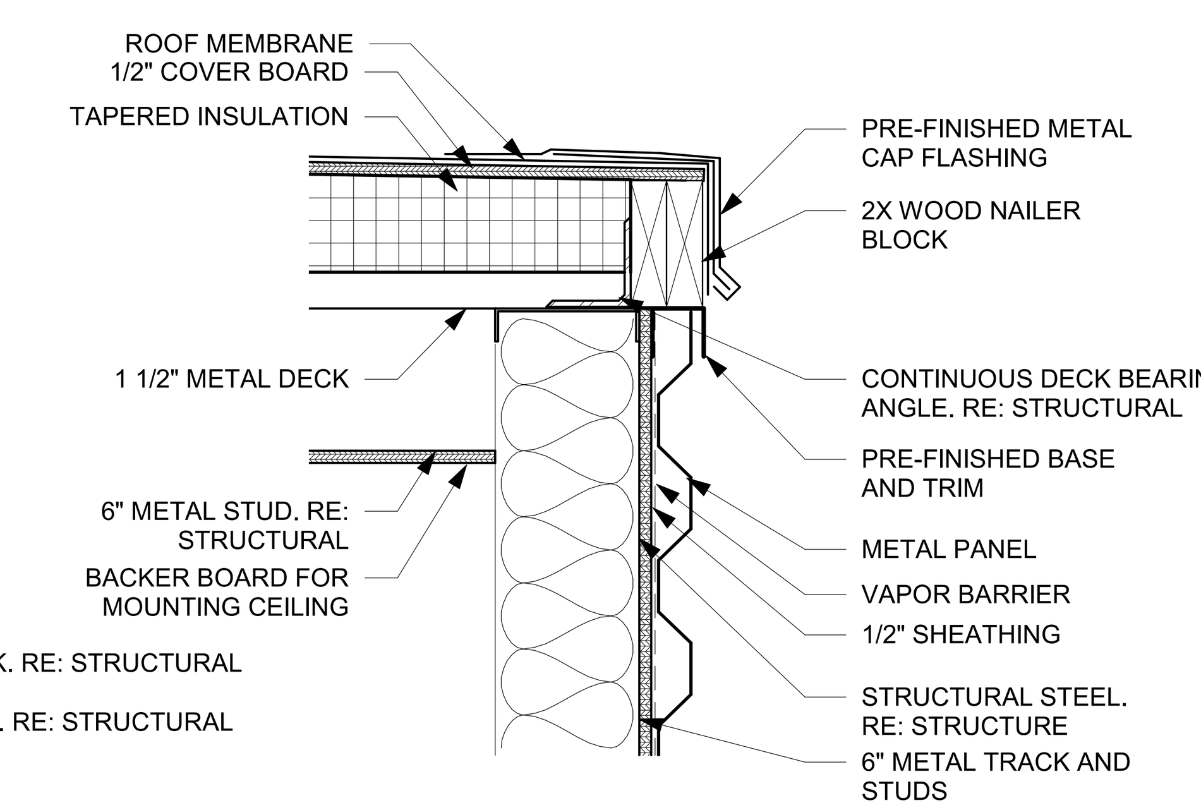
4 TPO ROOF CONNECTION 1
SCALE: 1 1/2" = 1'-0"



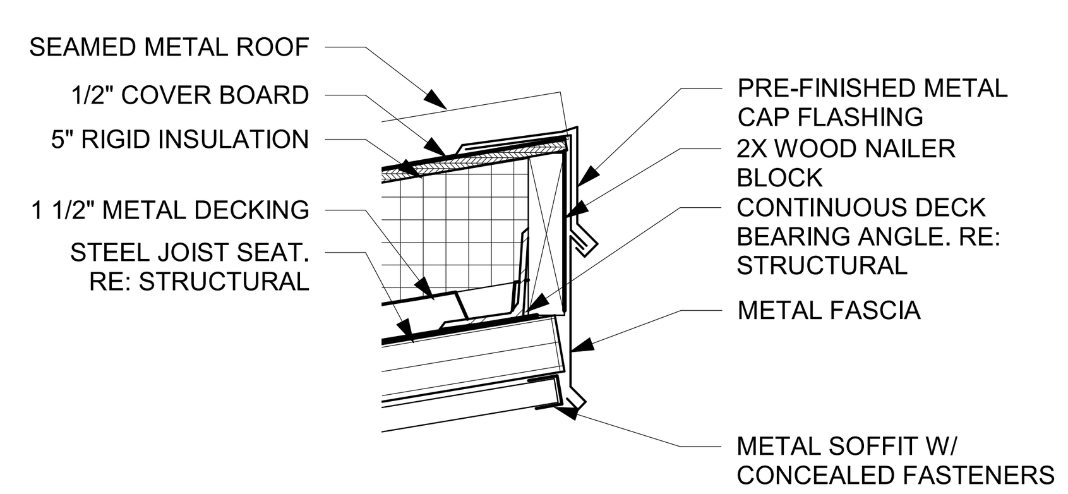
3 ROOF CONNECTION DETAIL @ METAL PANEL
SCALE: 1 1/2" = 1'-0"



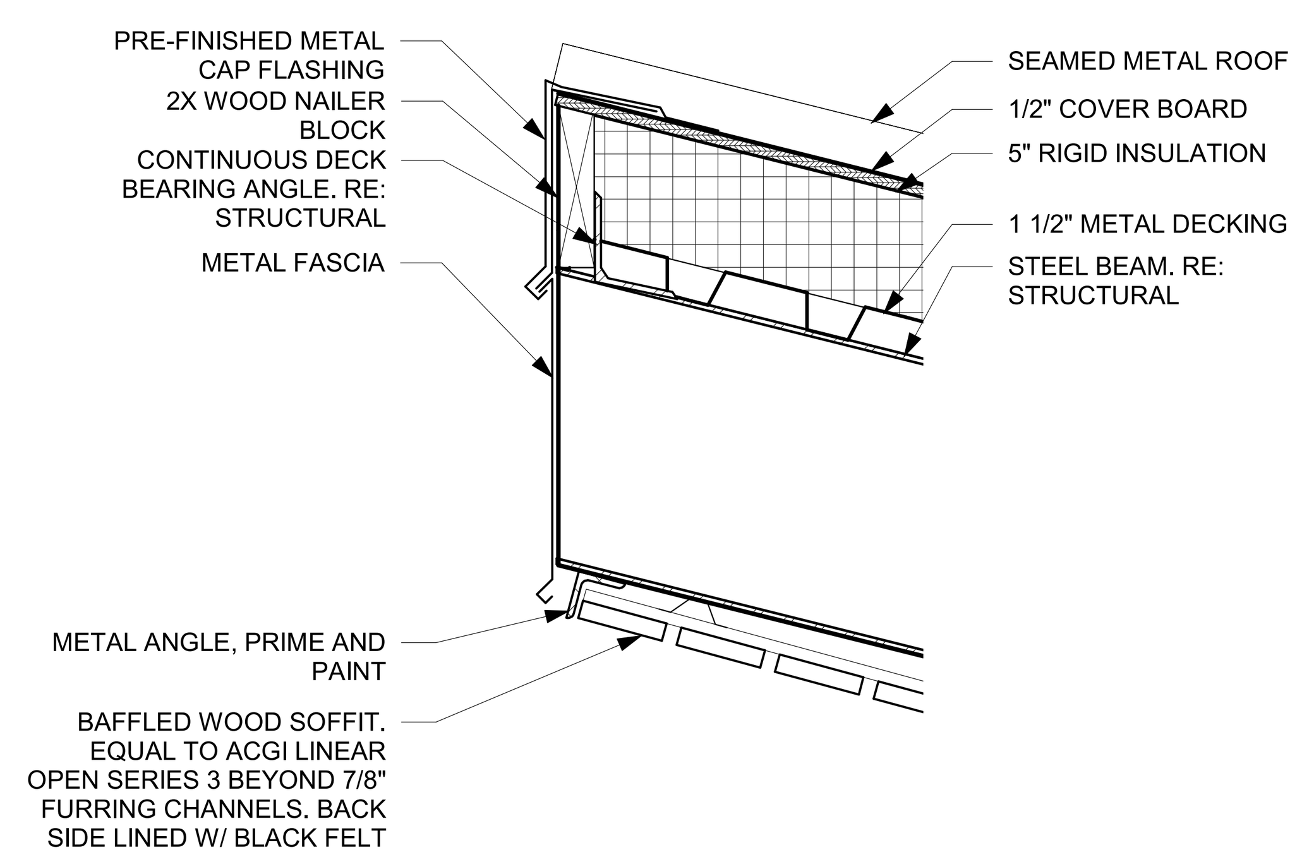
2 ROOF DETAIL CALLOUT
SCALE: 3" = 1'-0"



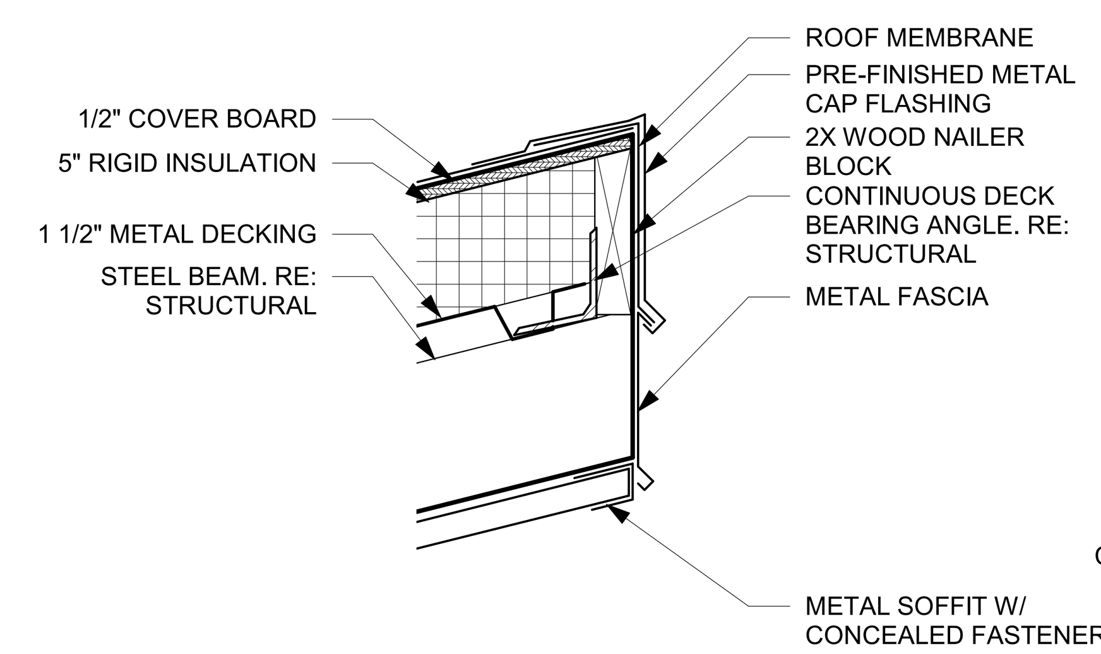
1 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



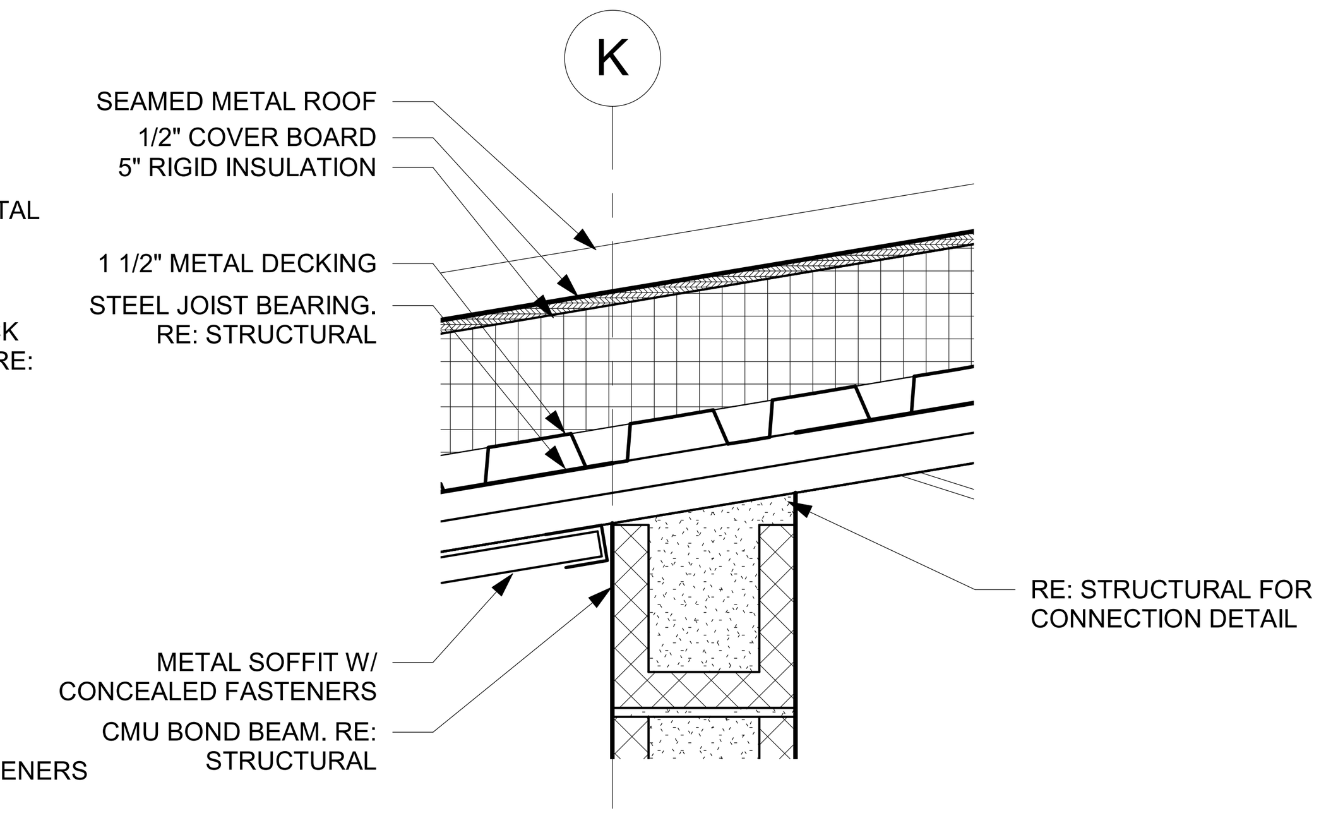
8 SEAMED METAL FASCIA DETAIL 2
SCALE: 1 1/2" = 1'-0"



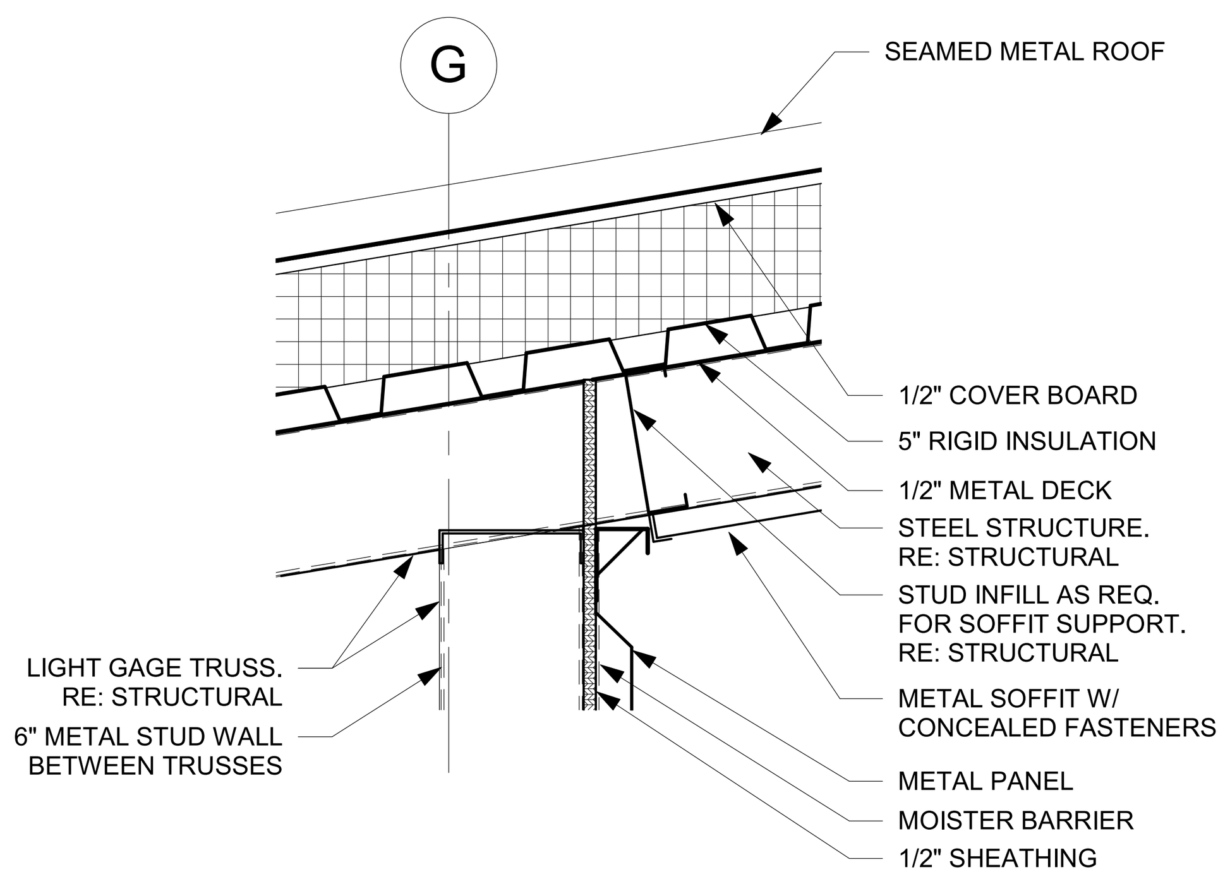
7 SEAMED METAL FASICA DETAIL
SCALE: 1 1/2" = 1'-0"



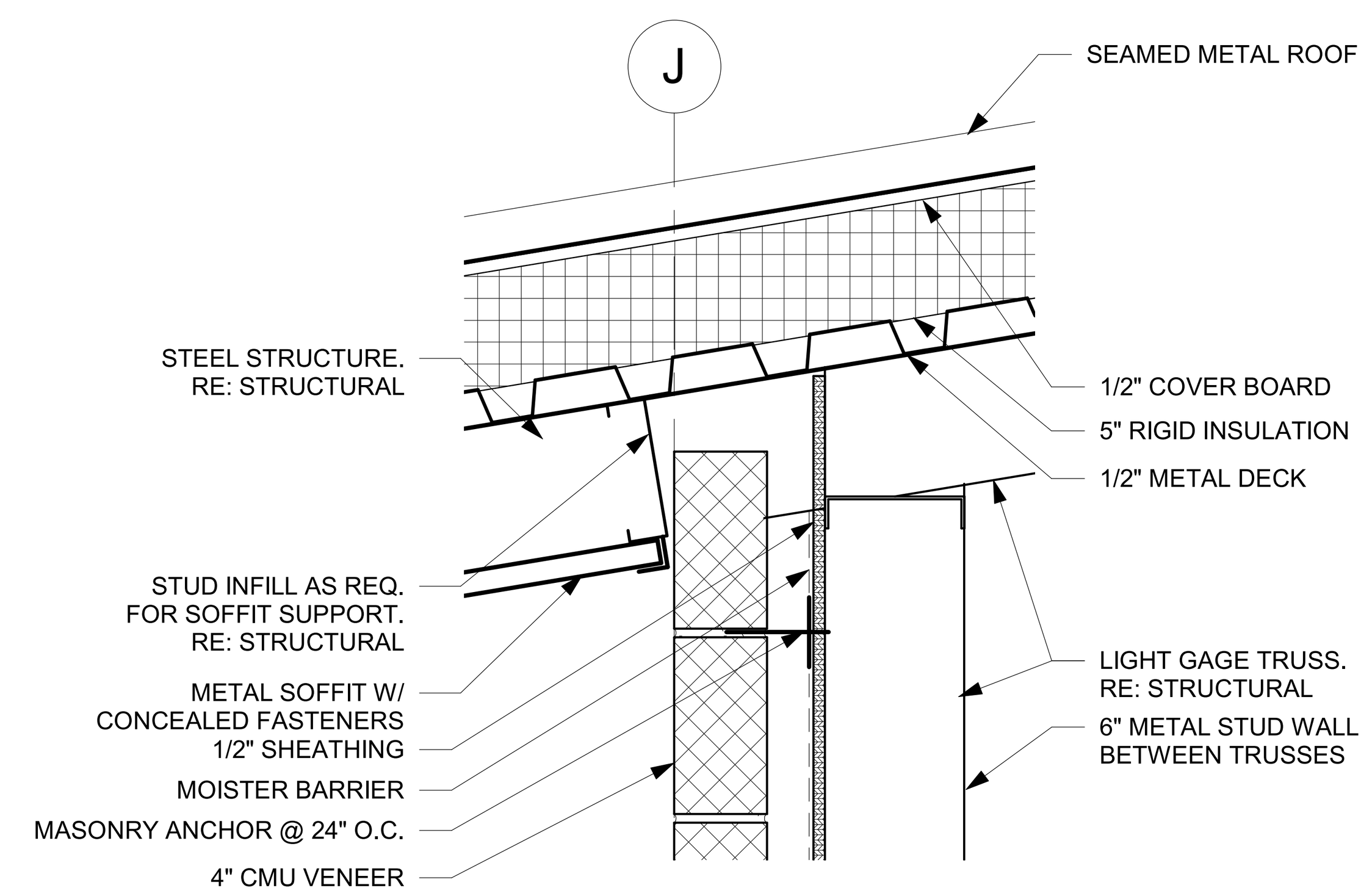
6 TPO FASCIA DETAIL
SCALE: 1 1/2" = 1'-0"



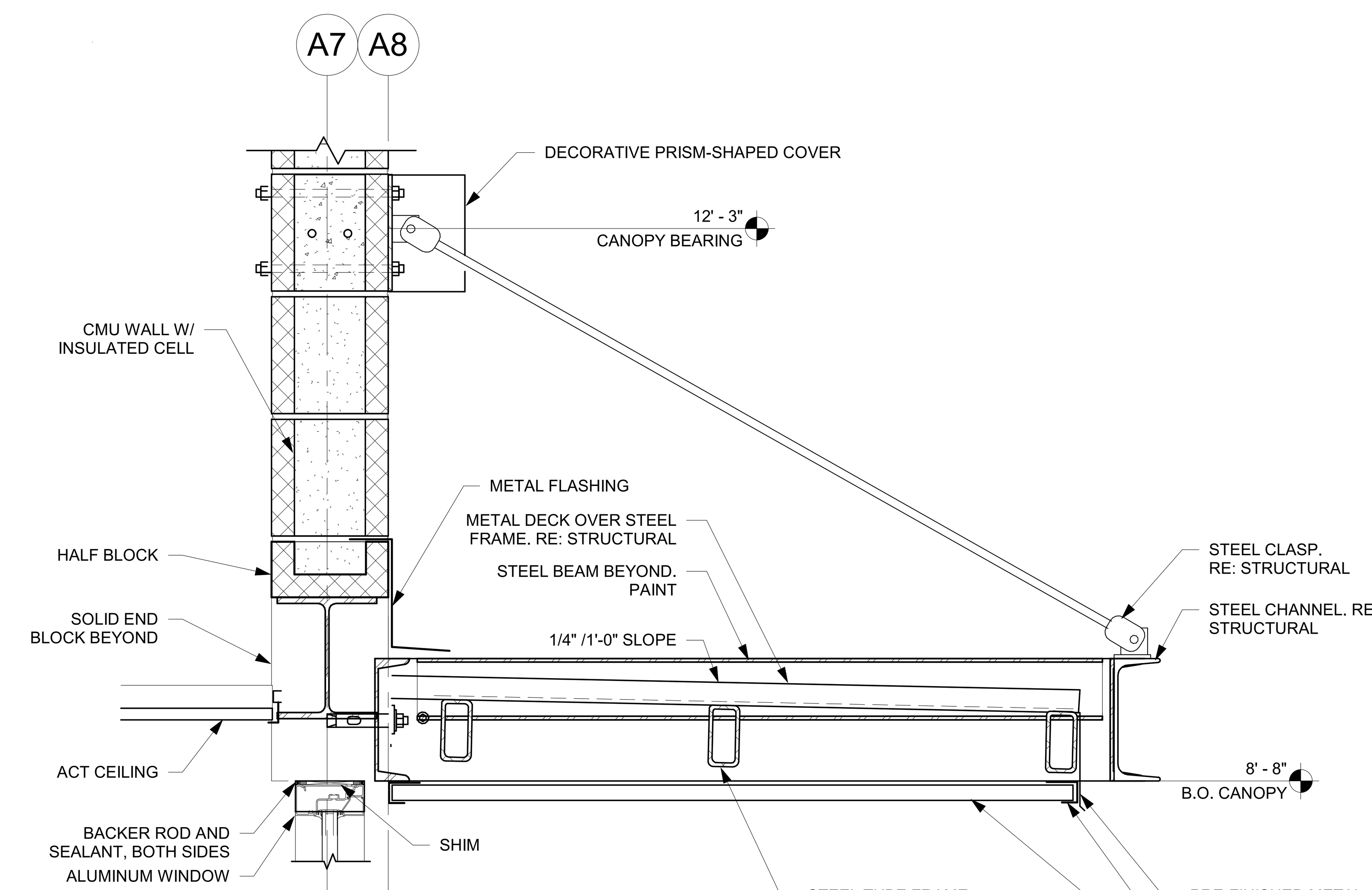
5 CMU - METAL ROOF CONNECTION
SCALE: 1 1/2" = 1'-0"



11 STORM SHELTER ROOF CONNECTION @ METAL PANEL
SCALE: 1 1/2" = 1'-0"

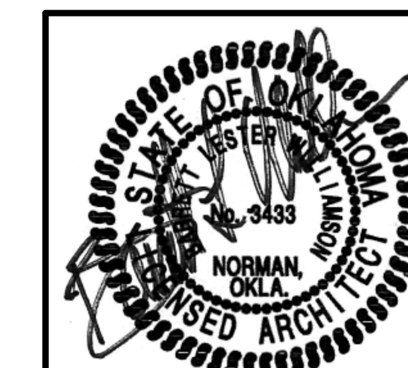


10 ROOF CONNECTION @ CMU VENEER
SCALE: 1 1/2" = 1'-0"



9 CANOPY DETAIL 2
SCALE: 1 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



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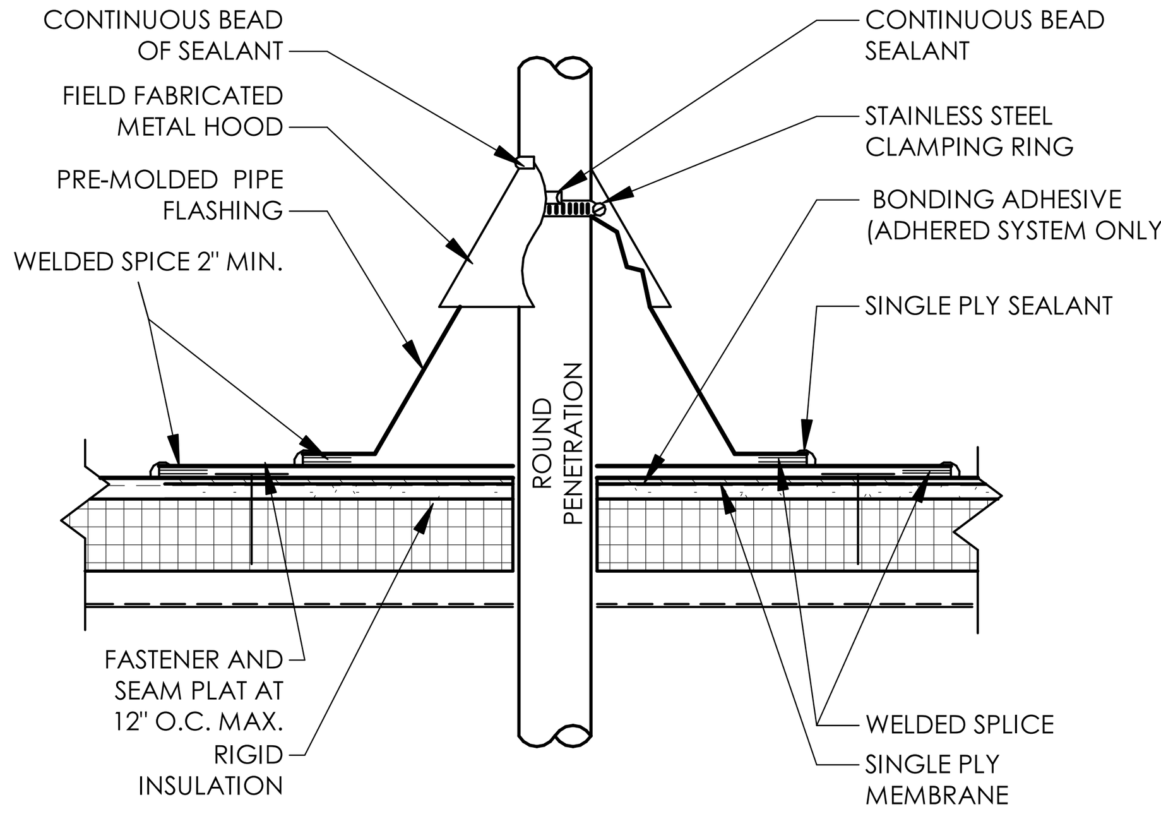
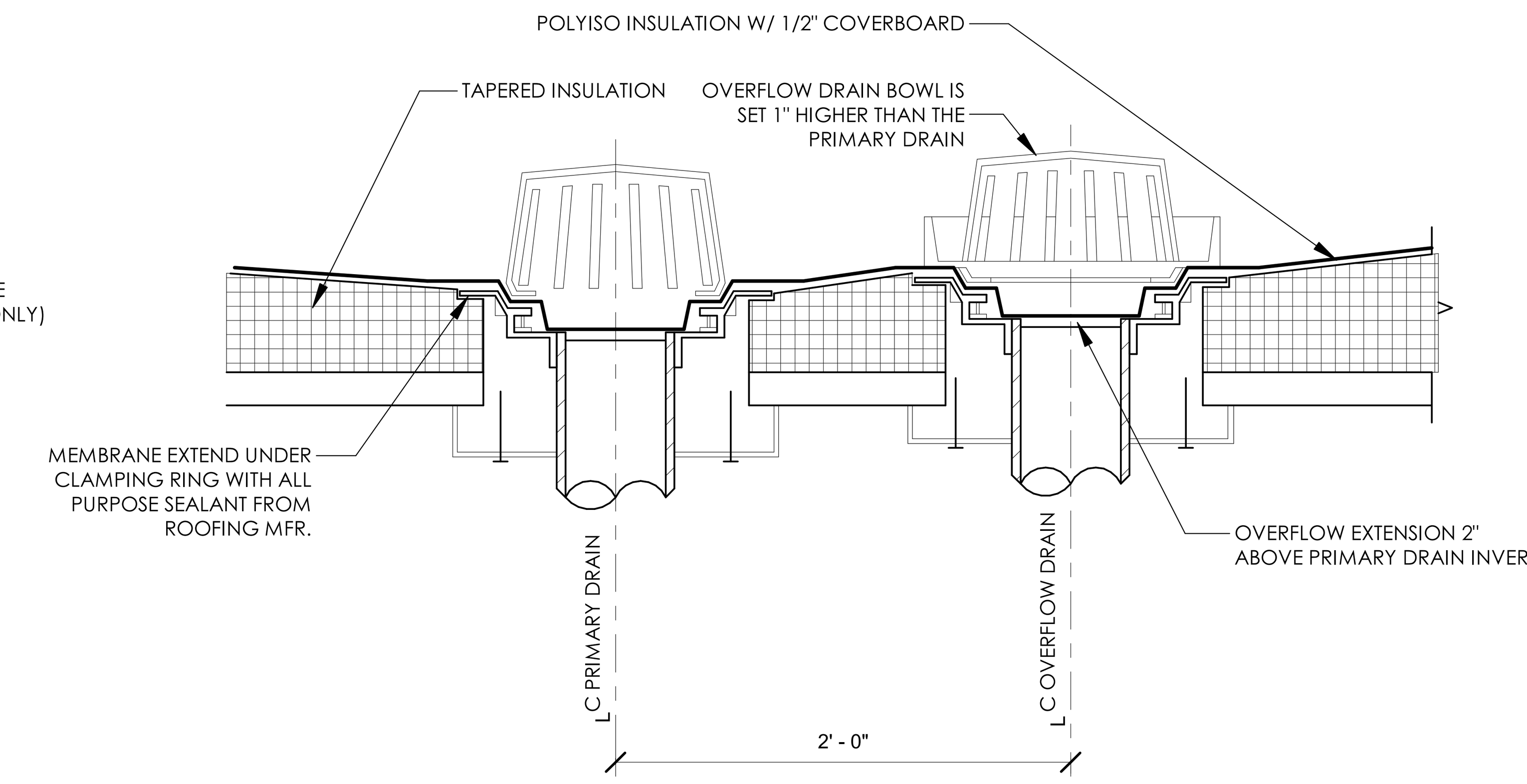
SHEET TITLE
SECTION DETAILS

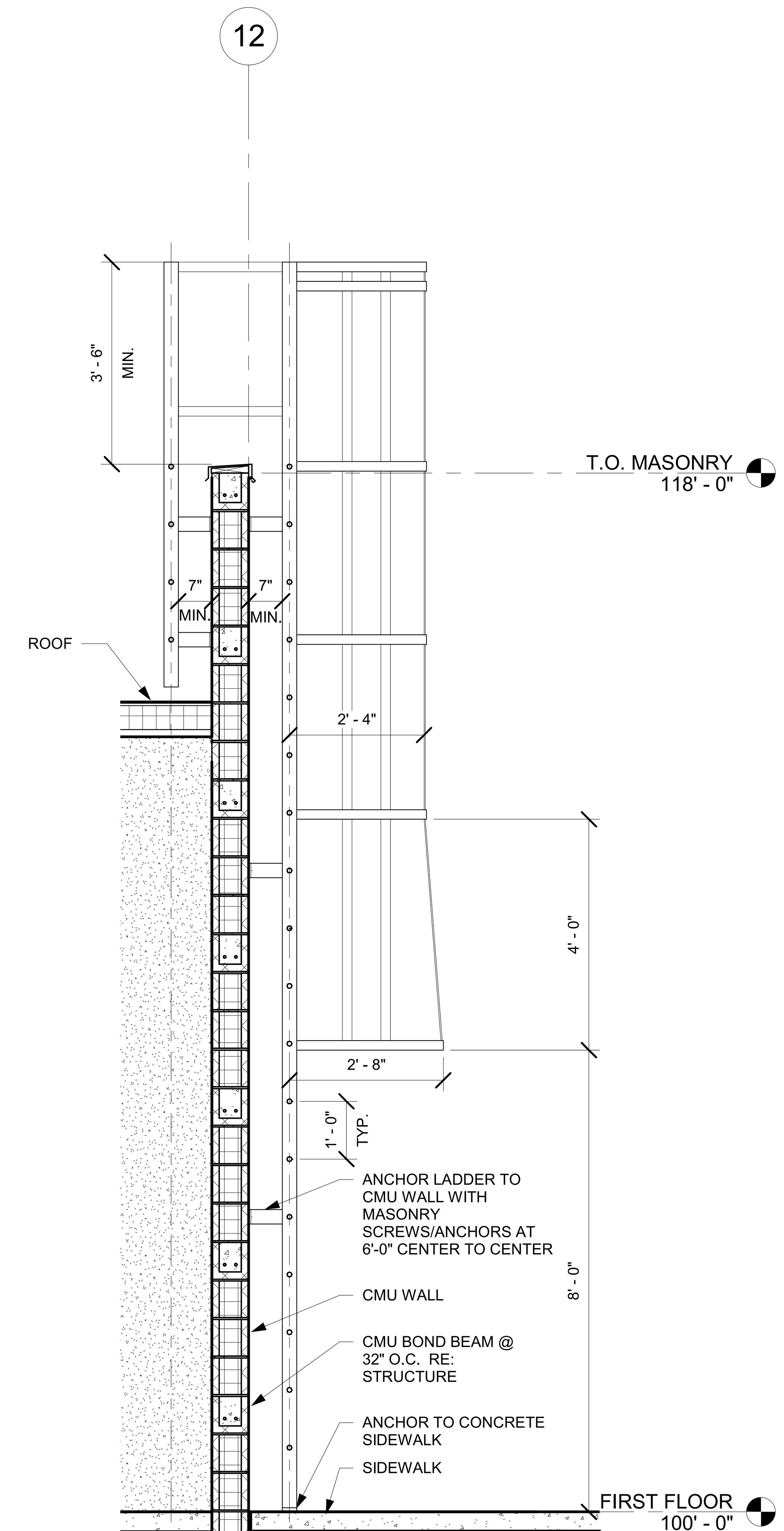
SHEET NUMBER
A308



2 ROOF PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0"

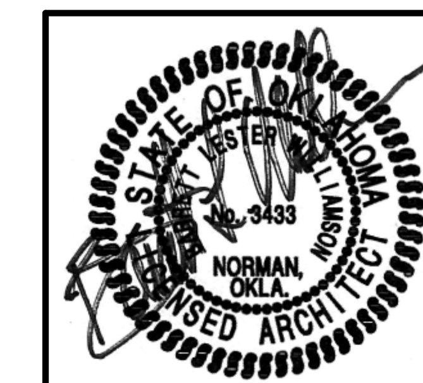


1 ROOF DRAIN W/ OVERFLOW
SCALE: 1 1/2" = 1'-0"



3 ROOF LADDER SECTION
SCALE: 1/2" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



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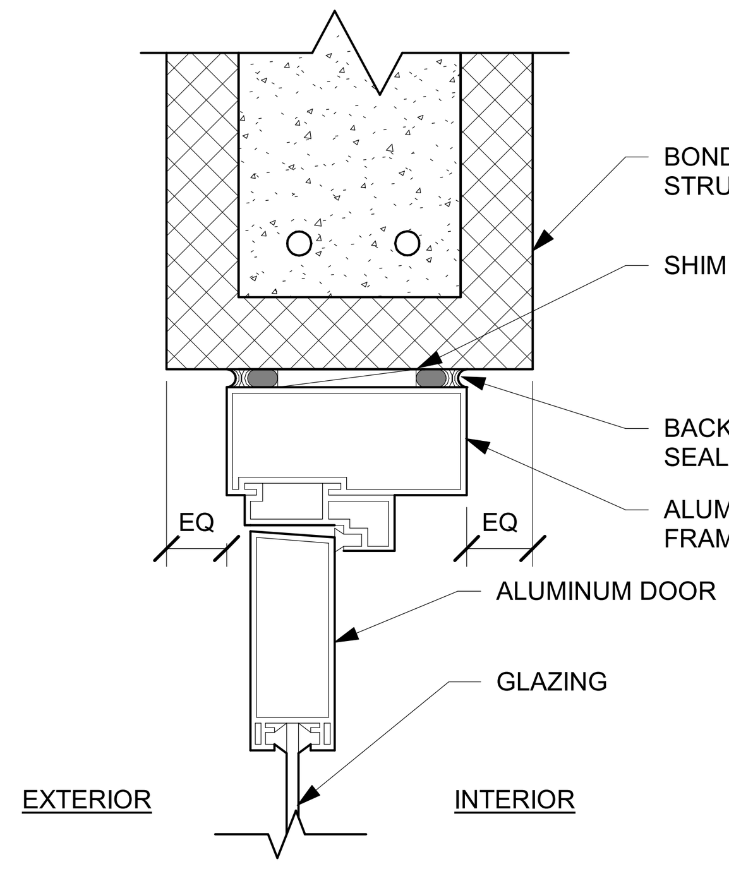
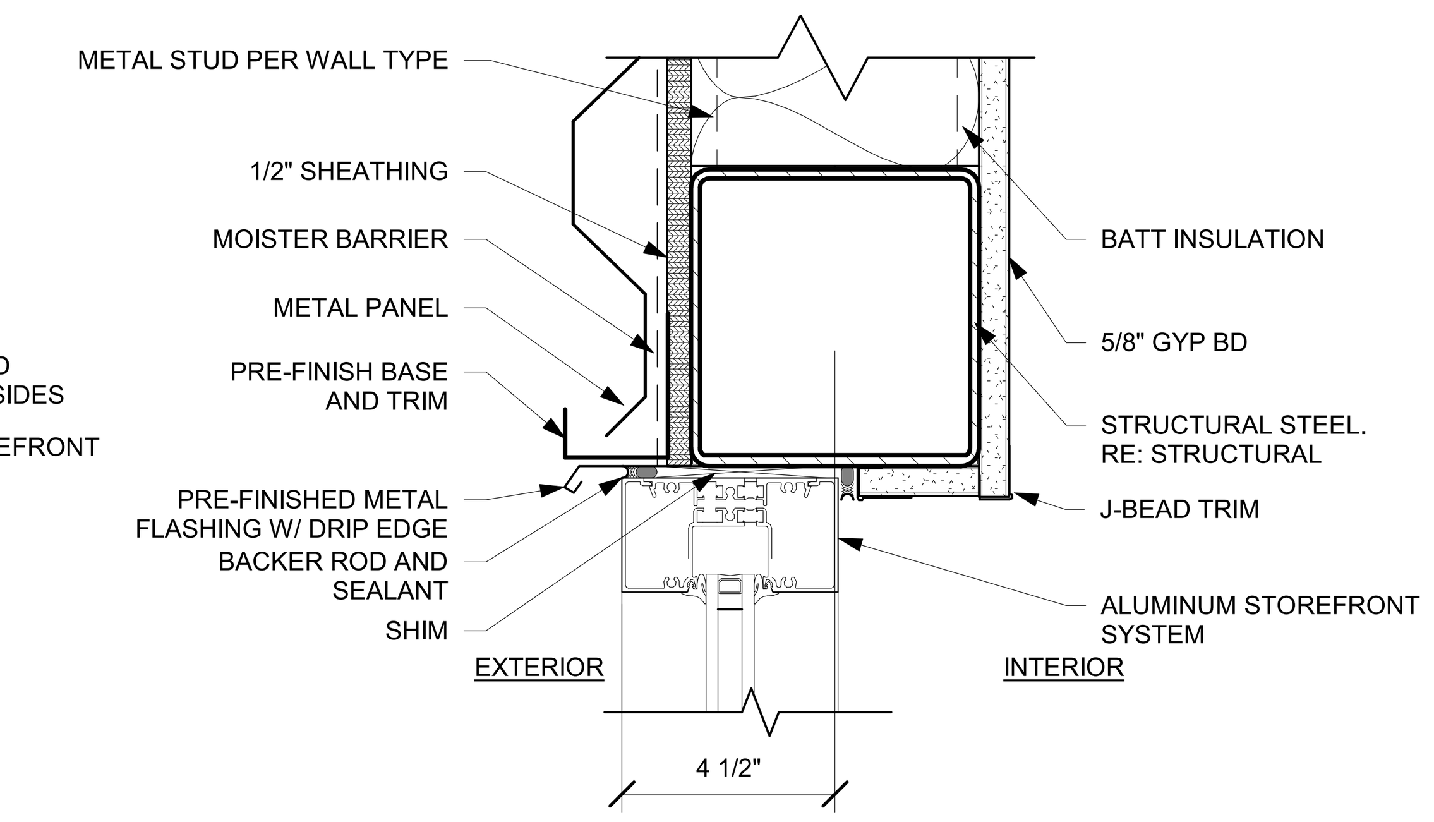
SHEET TITLE
ROOF DETAILS

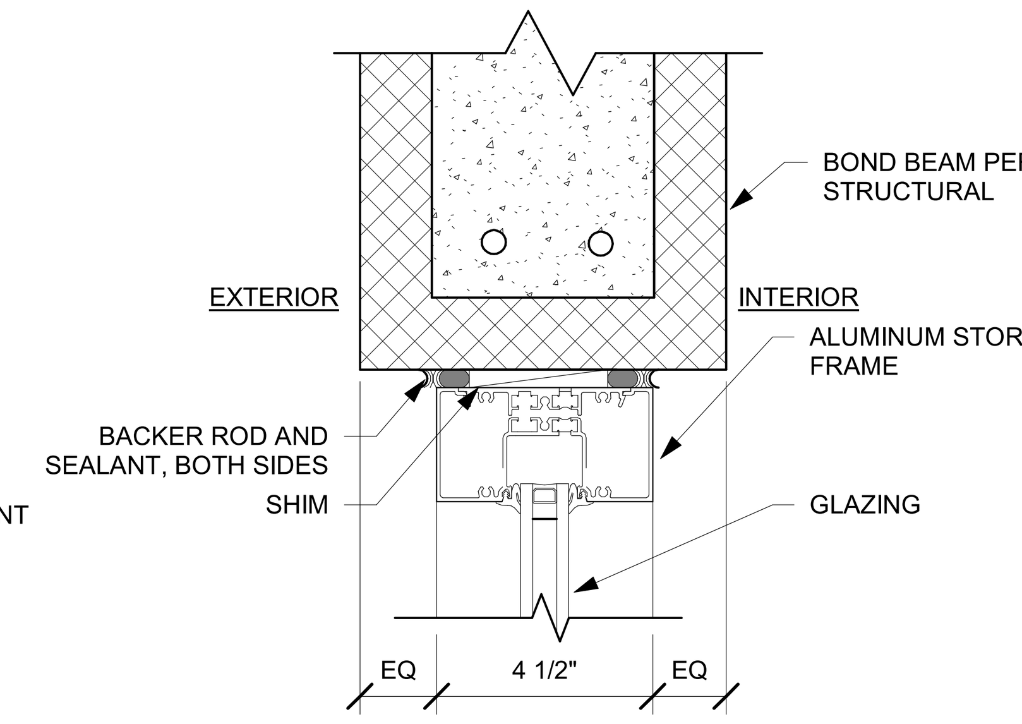
SHEET NUMBER
A309



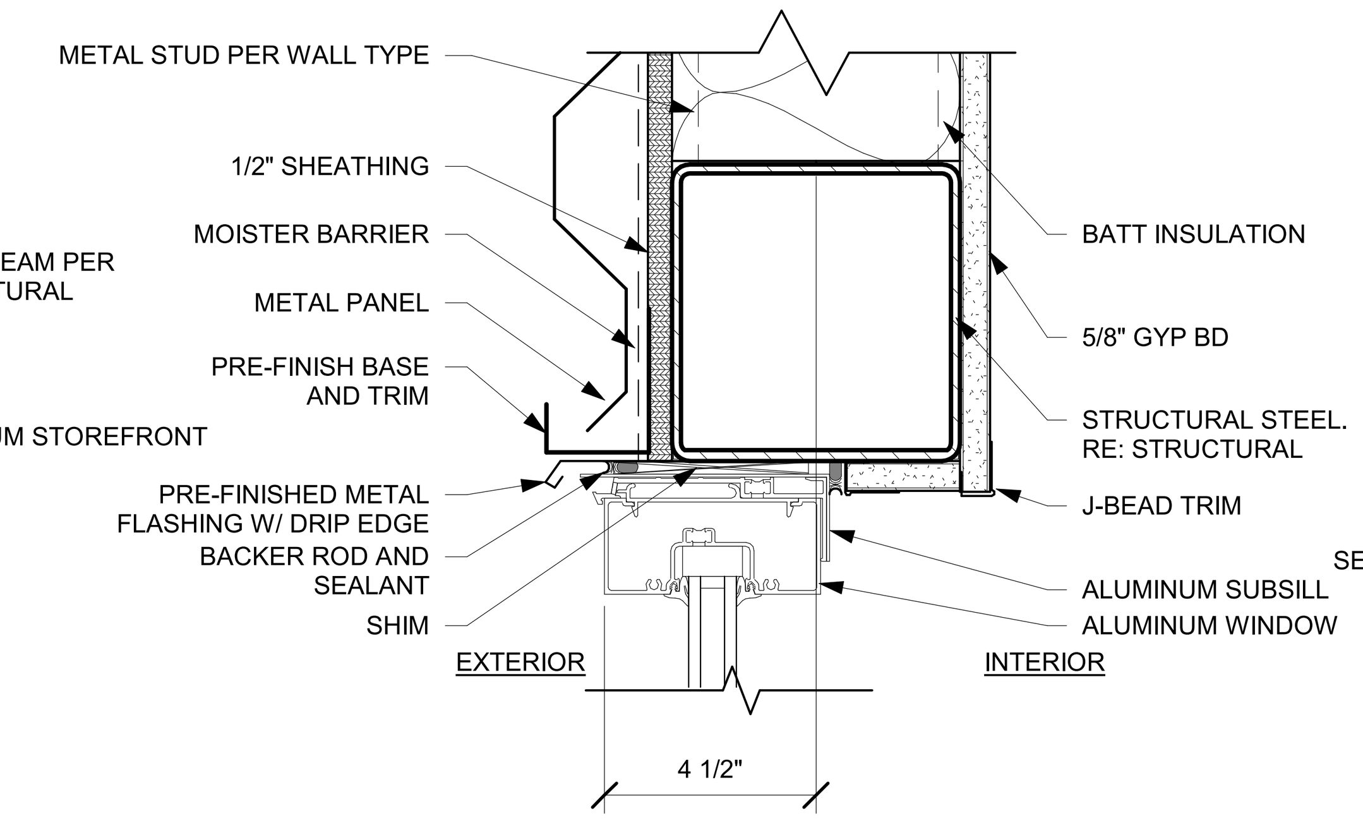
1 ALUM. DOOR HEAD @ CMU
SCALE: 3" = 1'-0"



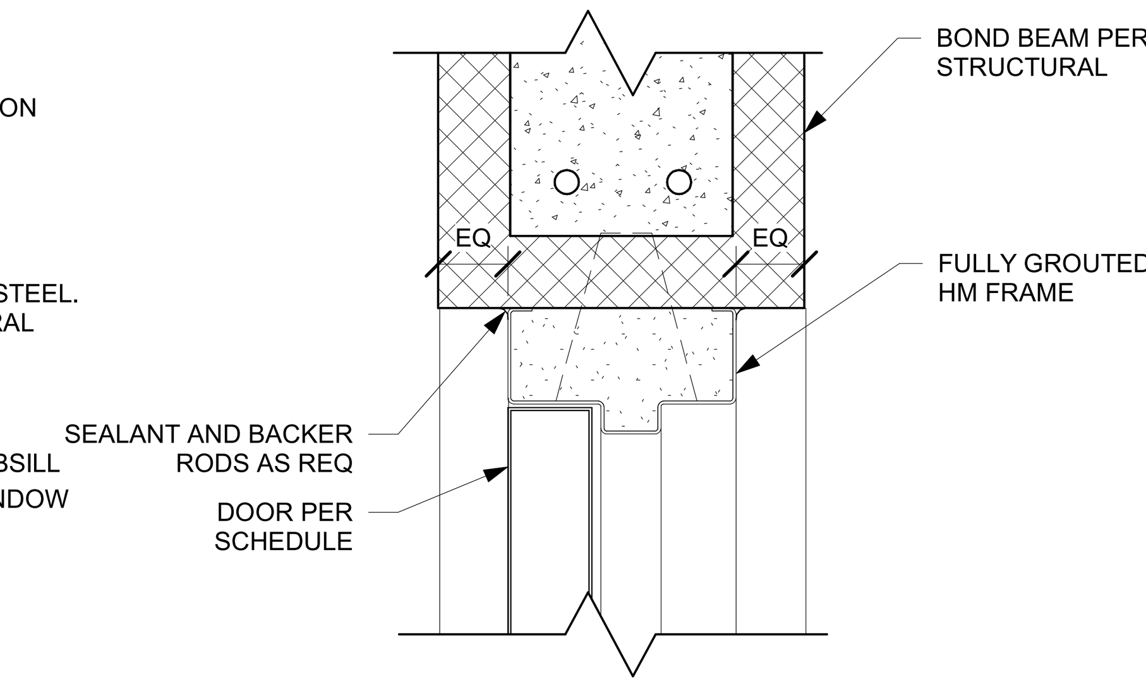
2 ALUM SF HEAD @ METAL PANEL
SCALE: 3" = 1'-0"



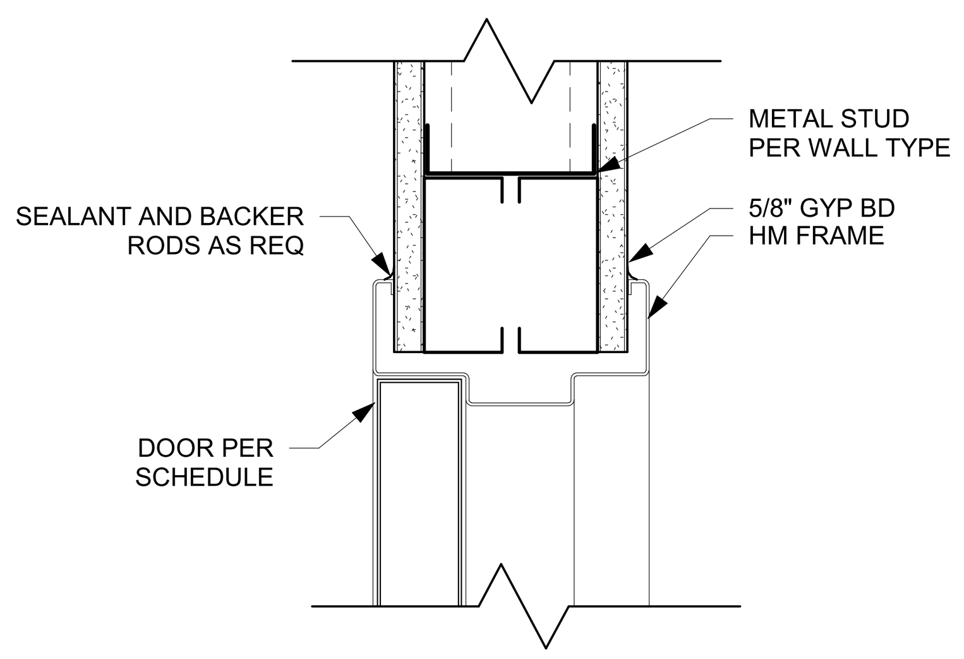
3 ALUM SF HEAD @ CMU
SCALE: 3" = 1'-0"



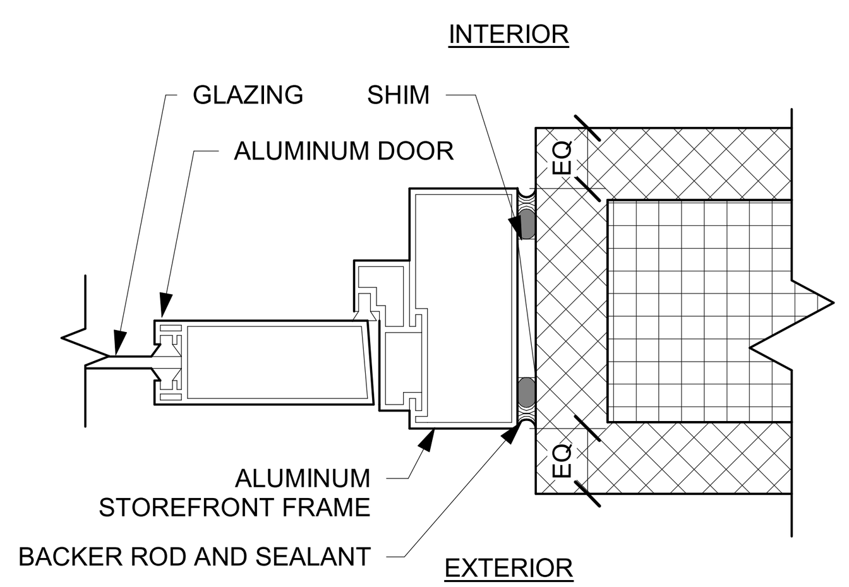
4 ALUM WDW HEAD @ METAL PANEL
SCALE: 3" = 1'-0"



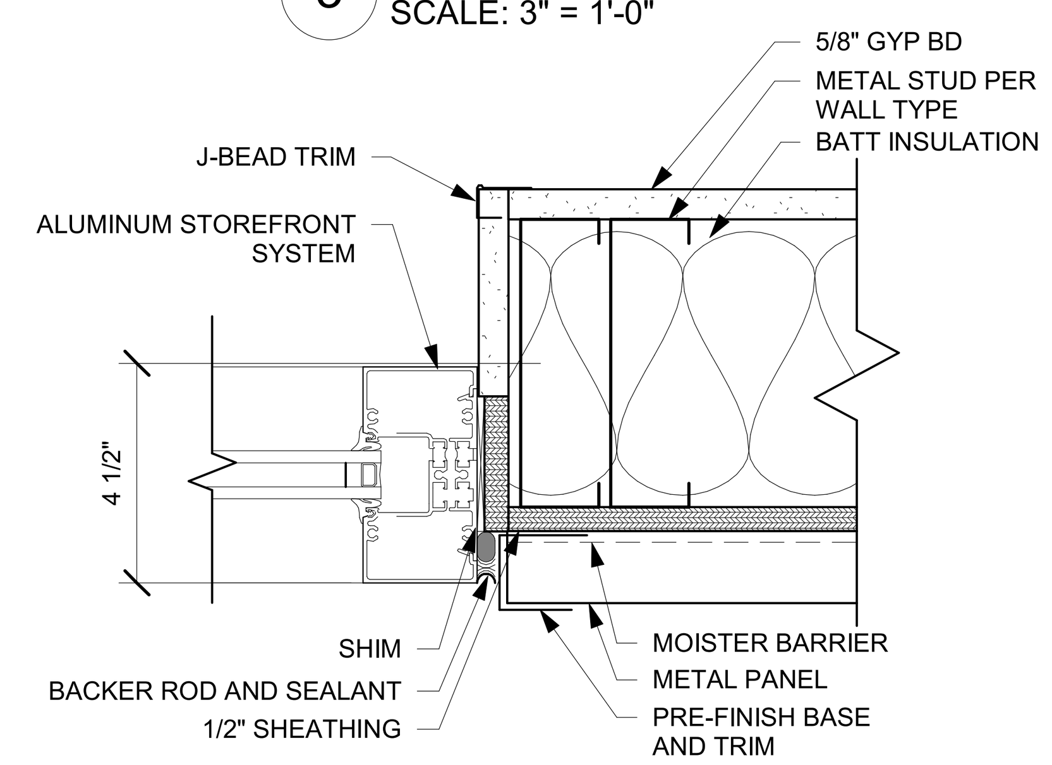
5 HM HEAD @ CMU
SCALE: 3" = 1'-0"



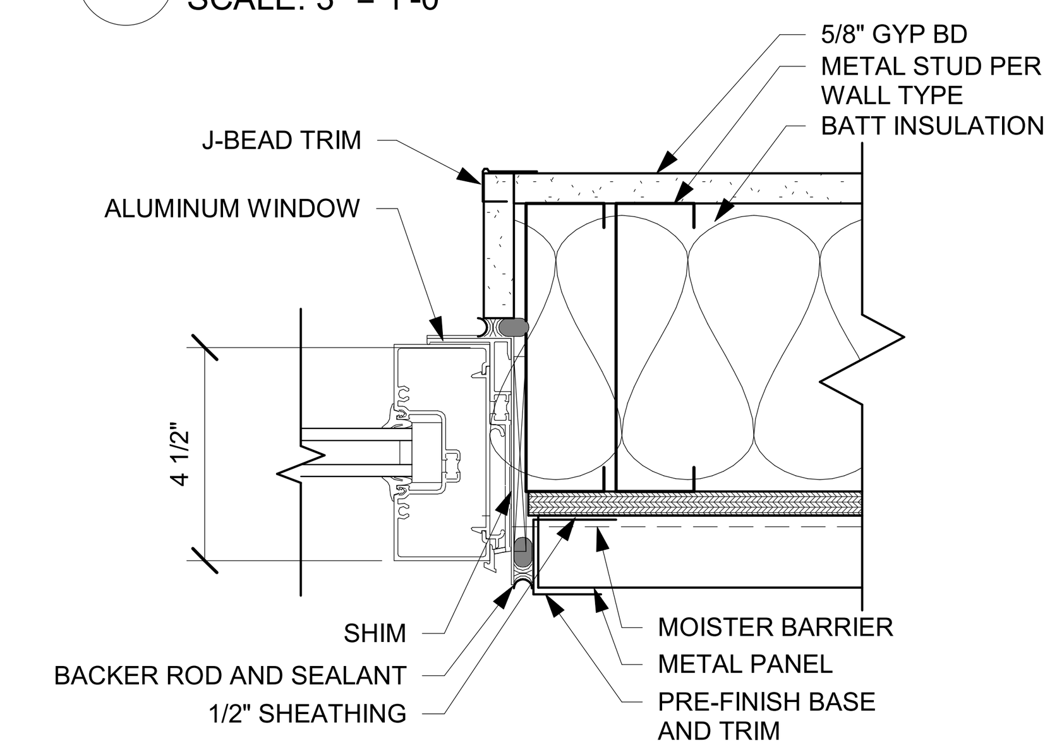
6 HM HEAD @ STUD WALL
SCALE: 3" = 1'-0"



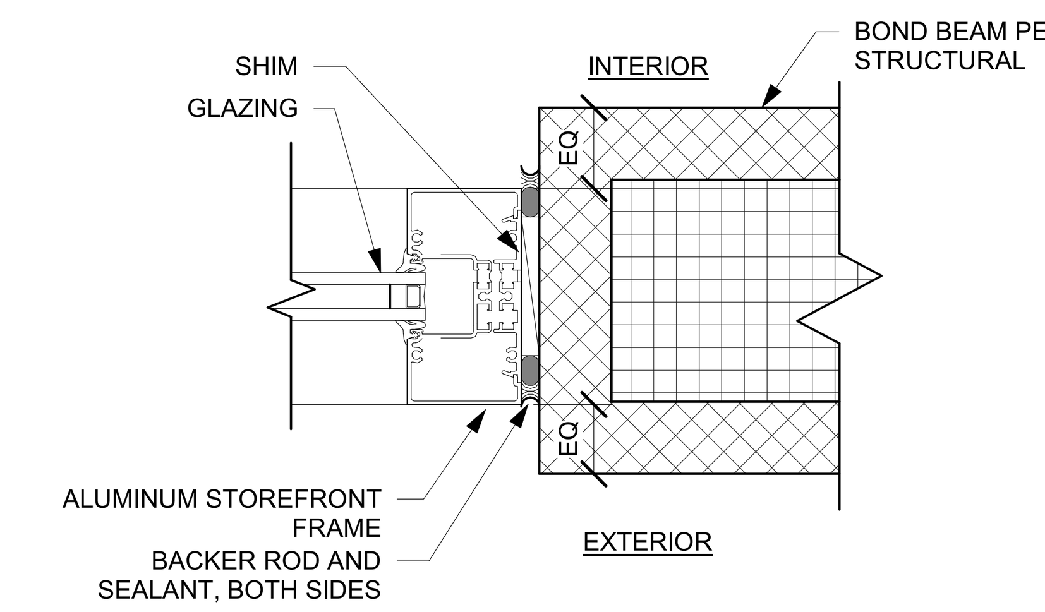
7 ALUM DOOR JAMB @ CMU
SCALE: 3" = 1'-0"



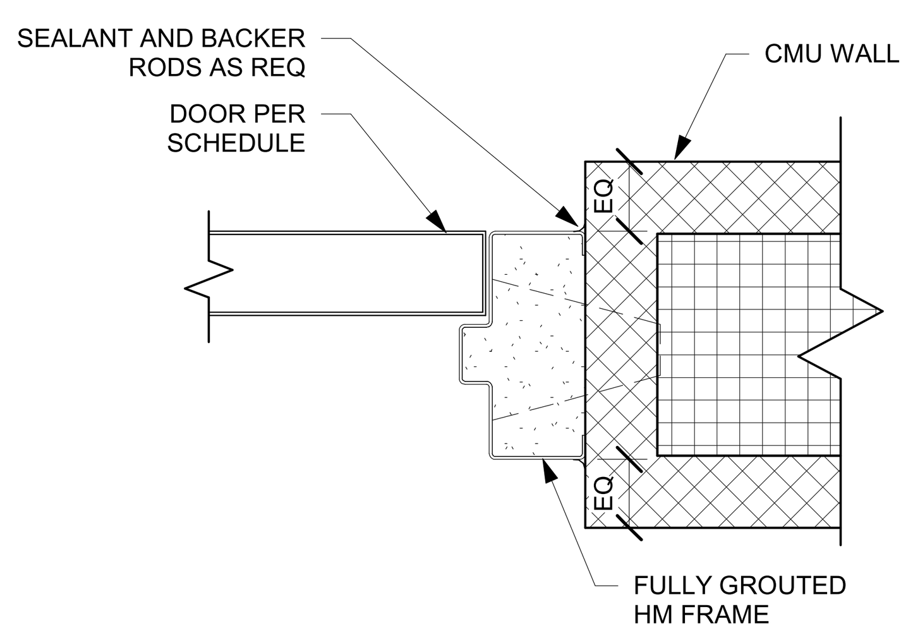
8 ALUM SF JAMB @ METAL PANEL
SCALE: 3" = 1'-0"



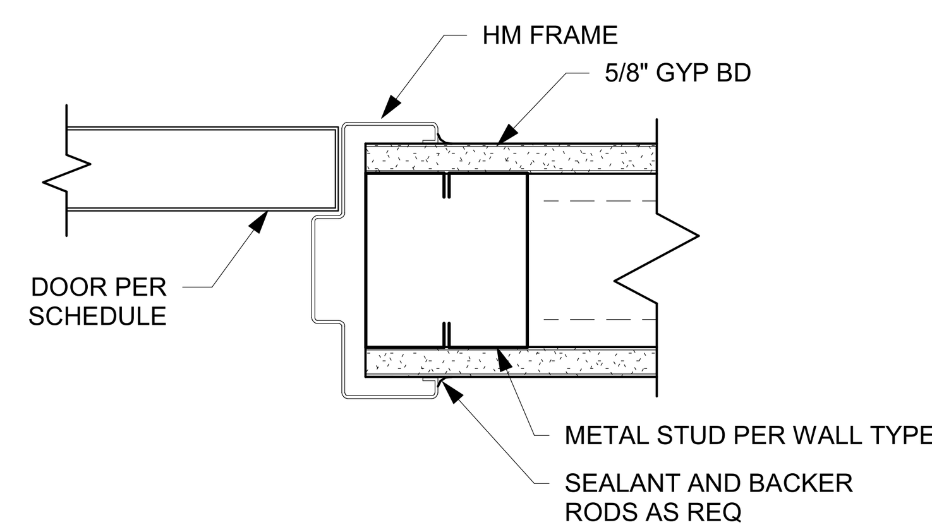
9 ALUM WDW JAMB @ METAL PANEL
SCALE: 3" = 1'-0"



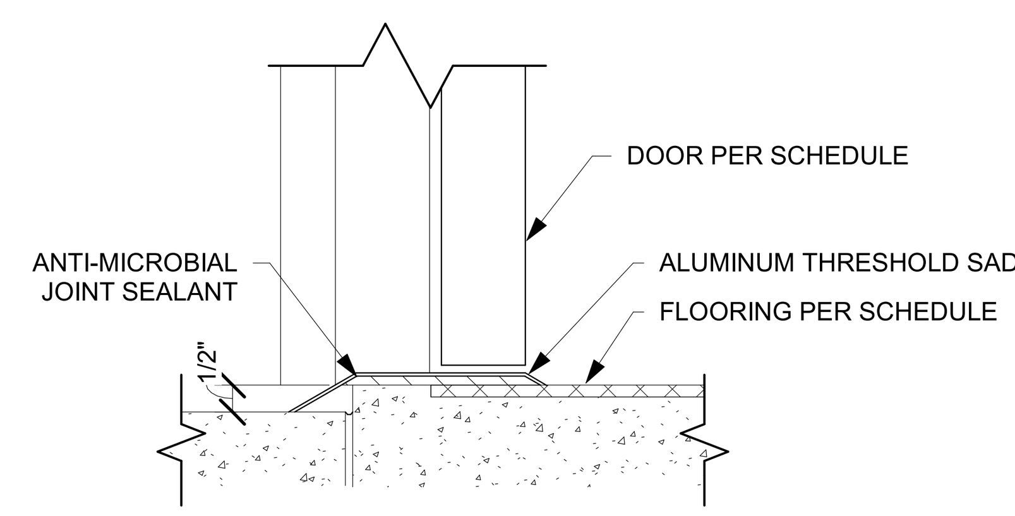
10 ALUM SF JAMB @ CMU
SCALE: 3" = 1'-0"



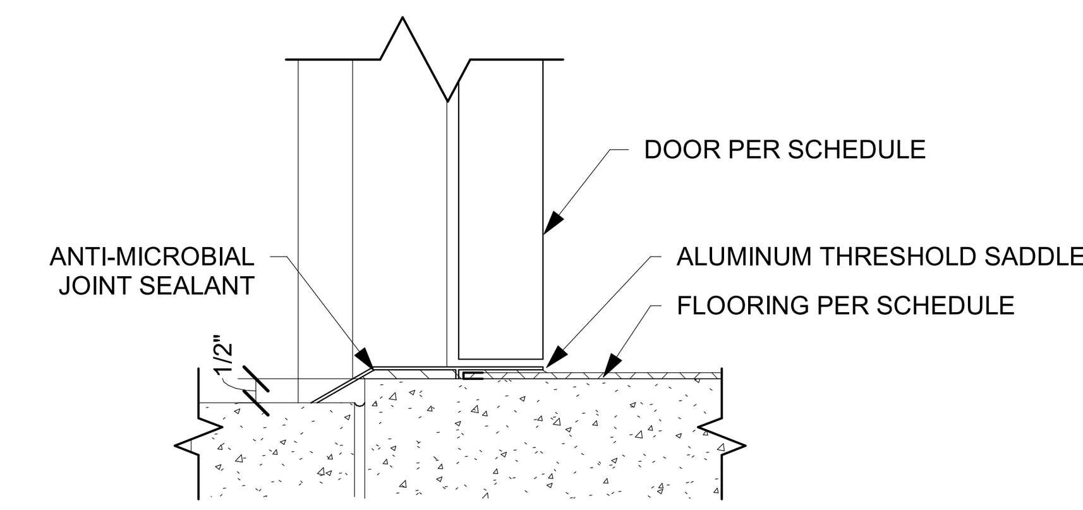
11 HM JAMB @ CMU
SCALE: 3" = 1'-0"



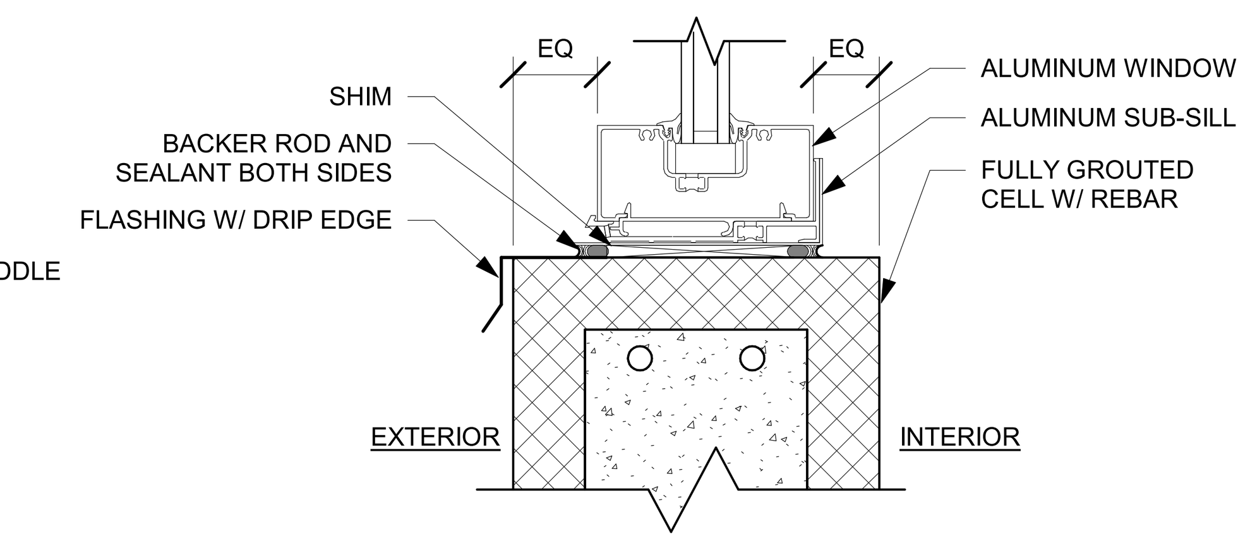
12 HM JAMB @ STUD WALL
SCALE: 3" = 1'-0"



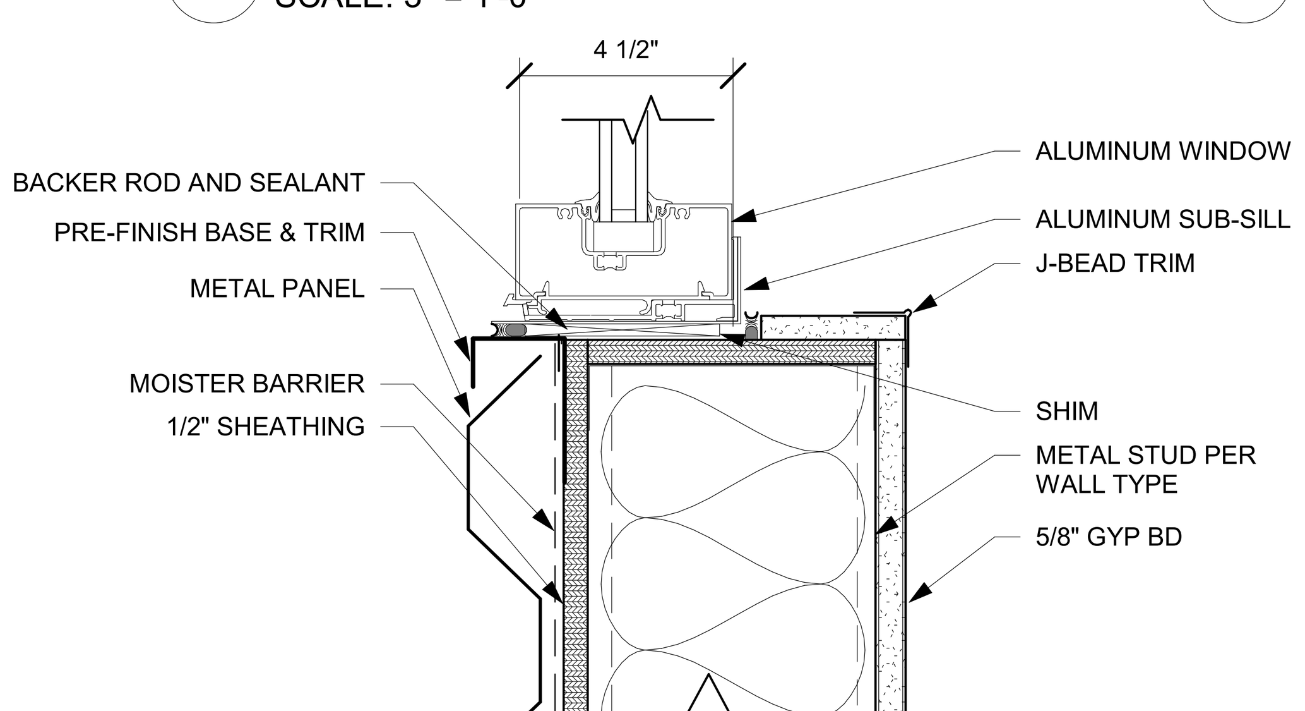
13 FULL SADDLE THRESHOLD
SCALE: 3" = 1'-0"



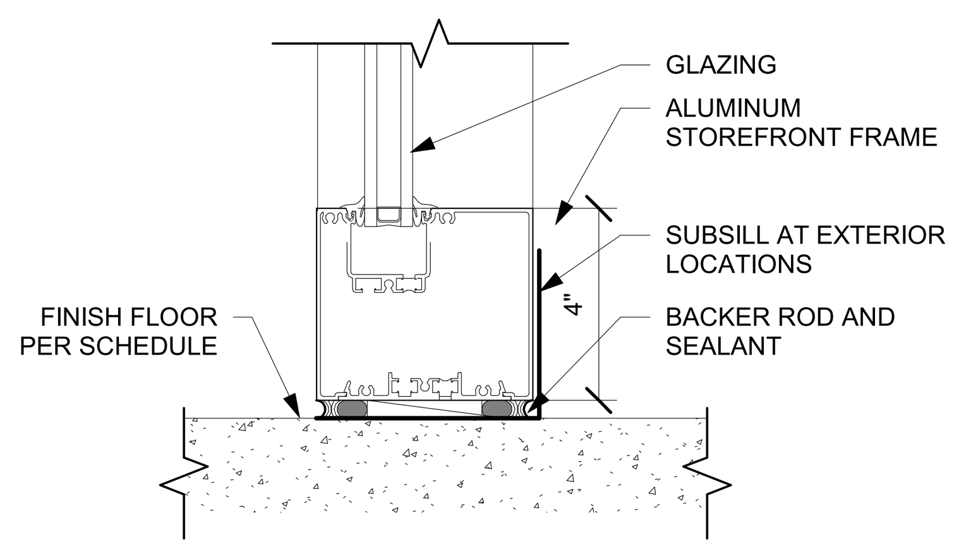
14 HALF SADDLE THRESHOLD
SCALE: 3" = 1'-0"



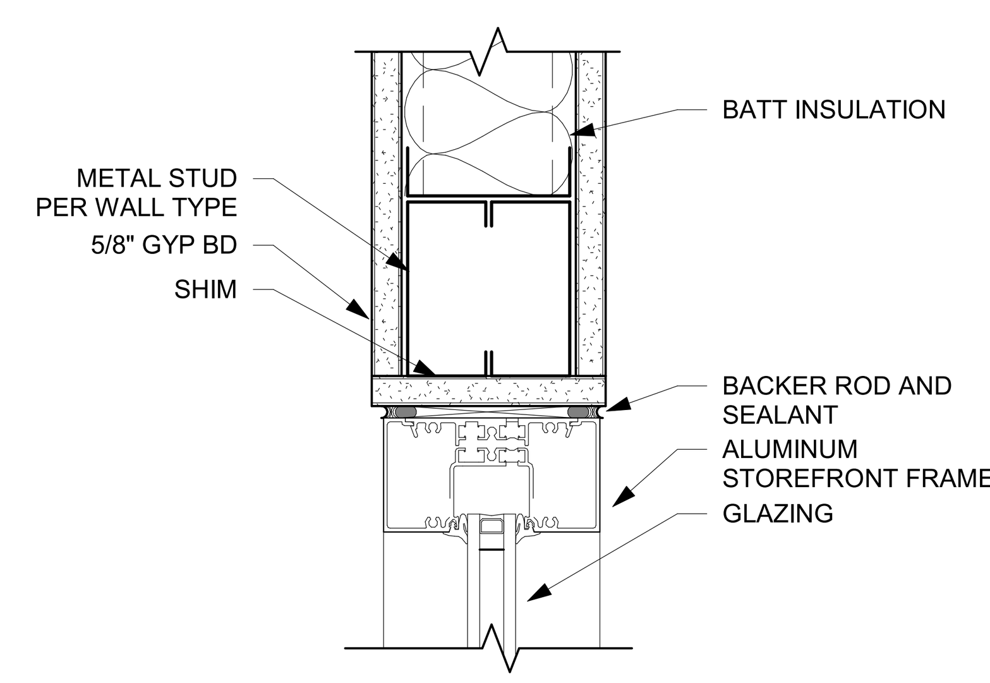
15 ALUM WDW SILL @ CMU
SCALE: 3" = 1'-0"



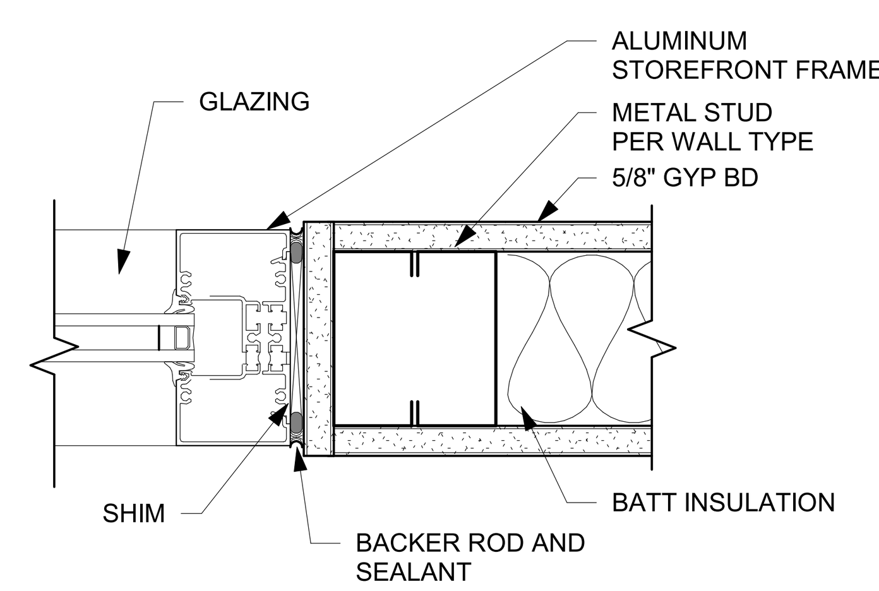
16 ALUM WDW SILL @ METAL PANEL
SCALE: 3" = 1'-0"



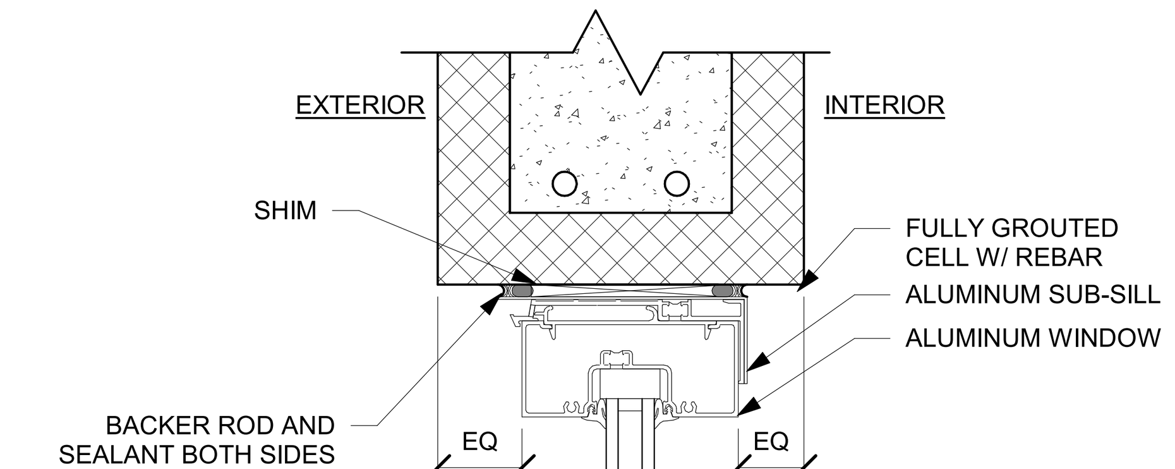
17 ALUM SF SILL @ FLOOR
SCALE: 3" = 1'-0"



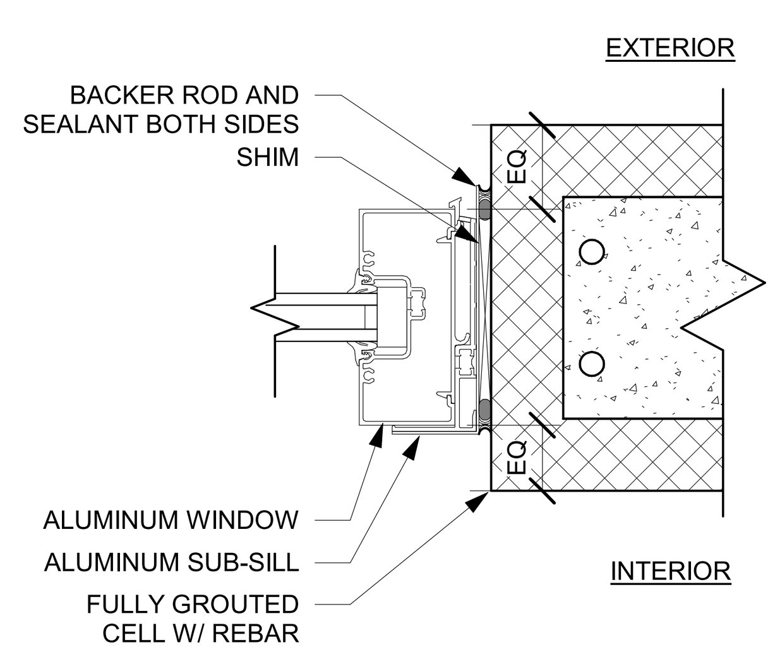
18 ALUM SF HEAD @ STUD WALL
SCALE: 3" = 1'-0"



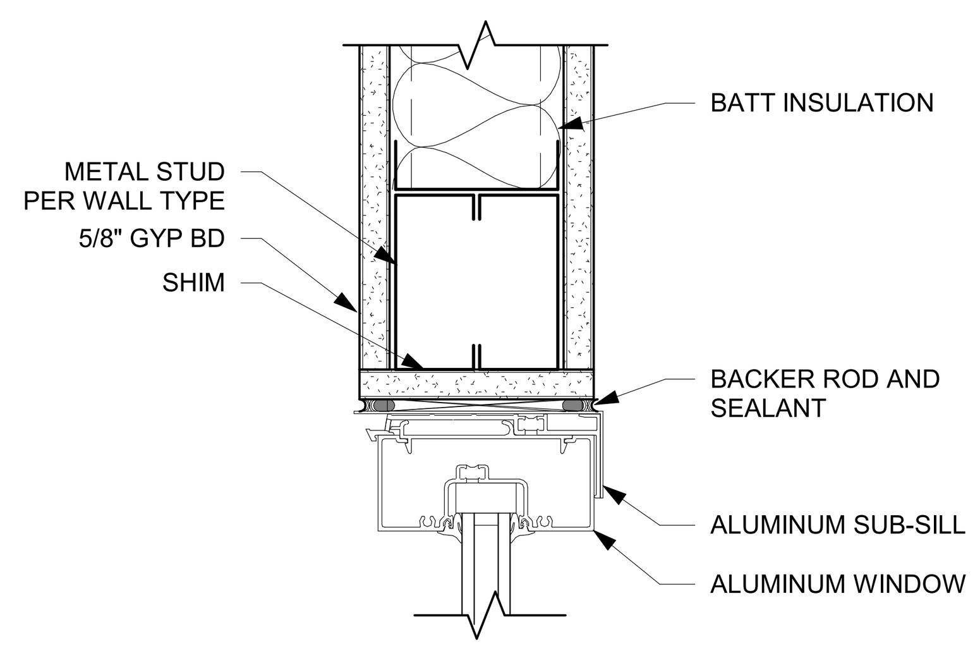
19 ALUM SF JAMB @ STUD WALL
SCALE: 3" = 1'-0"



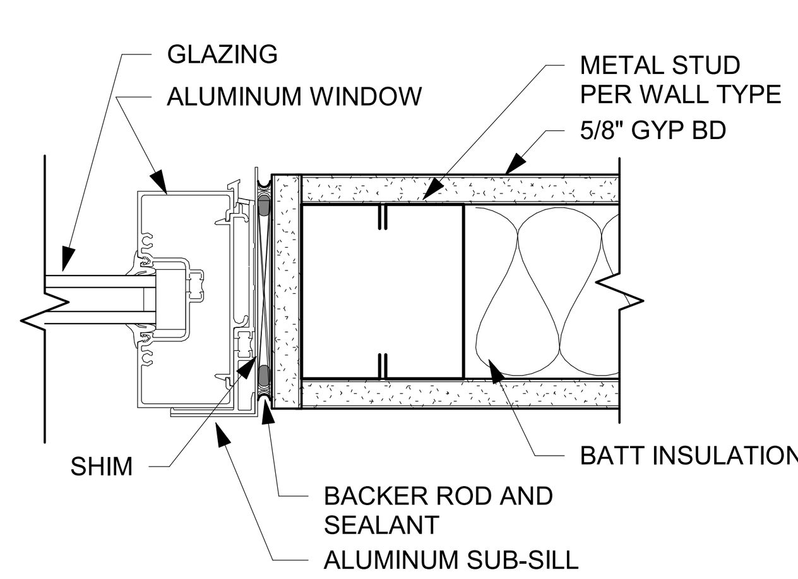
20 ALUM WDW HEAD@ CMU
SCALE: 3" = 1'-0"



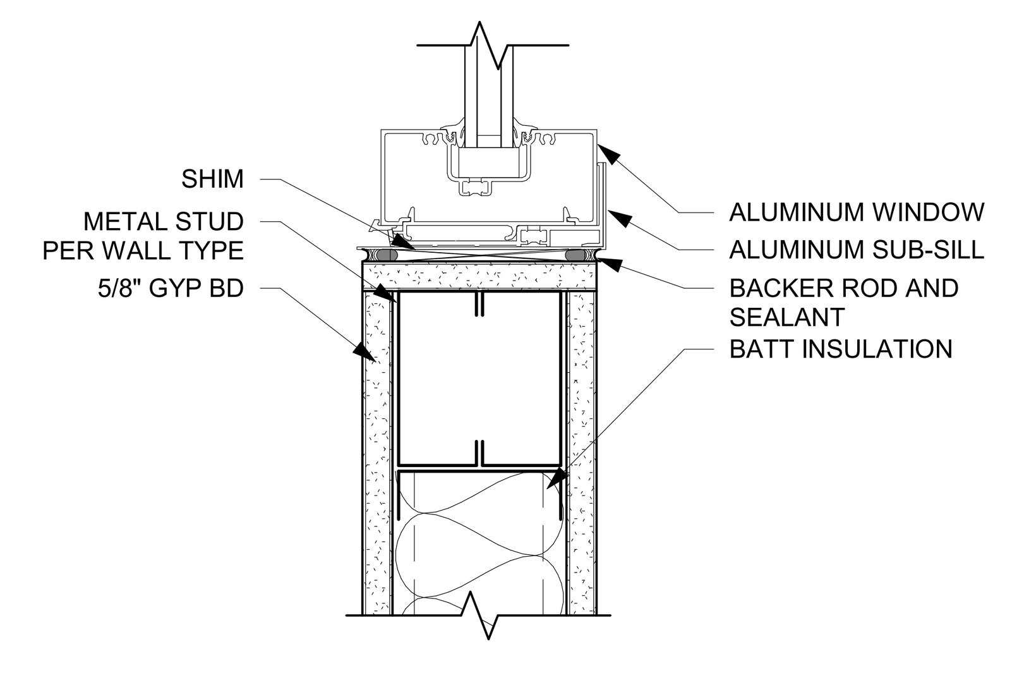
21 ALUM WDW JAMB @CMU
SCALE: 3" = 1'-0"



22 ALUM WDW HEAD @ STUD WALL
SCALE: 3" = 1'-0"



23 ALUM WDW JAMB @ STUD WALL
SCALE: 3" = 1'-0"



24 ALUM WDW SILL @ STUD WALL
SCALE: 3" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

06/07/2022
SEAL

BLW
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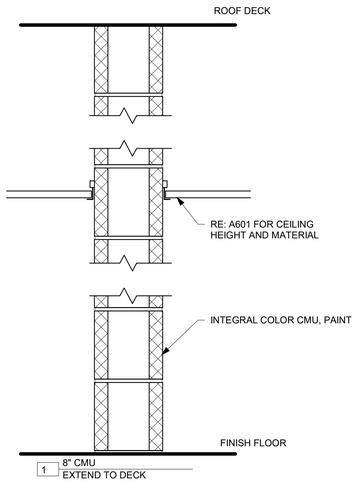
06-30-23

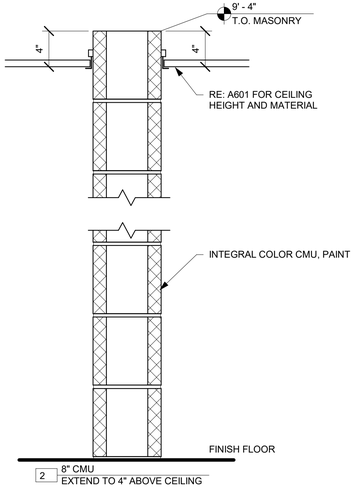
PROJECT NUMBER
M31114
ISSUE DATE
6/07/2022
REVISION DATES

SHEET TITLE
DOOR AND WINDOW DETAILS

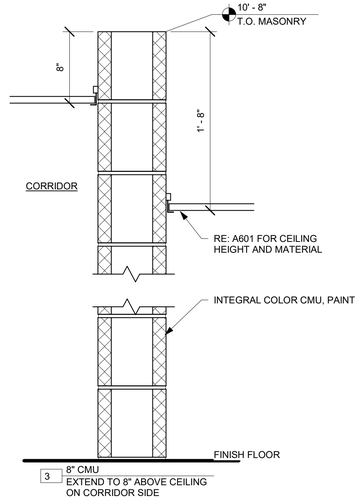
SHEET NUMBER
A310



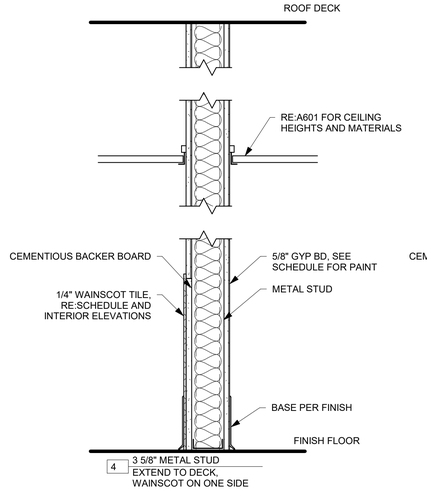
1 8" CMU
EXTEND TO DECK



2 8" CMU
EXTEND TO 4" ABOVE CEILING



3 8" CMU
EXTEND TO 8" ABOVE CEILING
ON CORRIDOR SIDE



4 3 5/8" METAL STUD
EXTEND TO DECK, WAINSCOT ON ONE SIDE

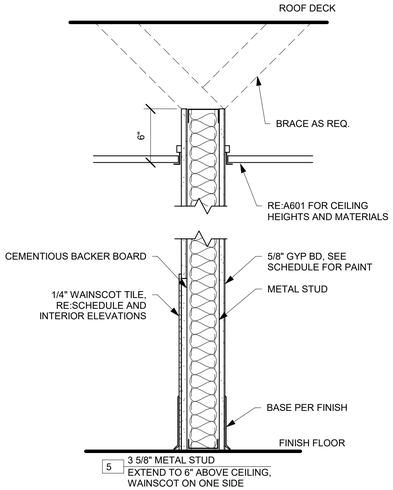
4.B 6" METAL STUD
EXTEND TO DECK, WAINSCOT ON ONE SIDE

4.C 3 5/8" METAL STUD
EXTEND TO DECK, WAINSCOT ON BOTH SIDES

4.D 6" METAL STUD
EXTEND TO DECK, WAINSCOT ON BOTH SIDES

4.E 6" METAL STUD
EXTEND TO DECK, WAINSCOT ON ONE SIDE

4.F 6" METAL STUD
EXTEND TO DECK, WAINSCOT ON ONE SIDE, TYPE X GYP BOARD. 1 HR FIRE RATING

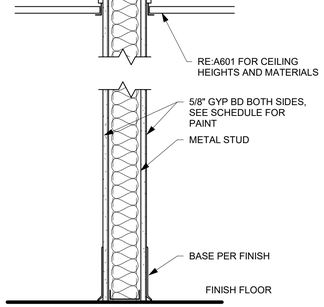


5 3 5/8" METAL STUD
EXTEND TO 6" ABOVE CEILING, WAINSCOT ON ONE SIDE

5.B 6" METAL STUD
EXTEND TO 6" ABOVE CEILING, WAINSCOT ON ONE SIDE

5.C 3 5/8" METAL STUD
EXTEND TO DECK, WAINSCOT ON BOTH SIDES

5.D 6" METAL STUD
EXTEND TO DECK, WAINSCOT ON BOTH SIDES

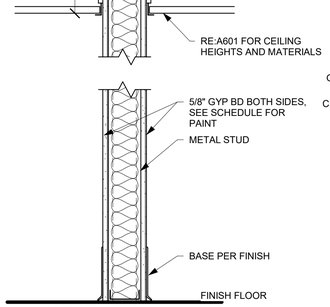


6 3 5/8" METAL STUD
EXTEND TO DECK

6B 6" METAL STUD
EXTEND TO DECK

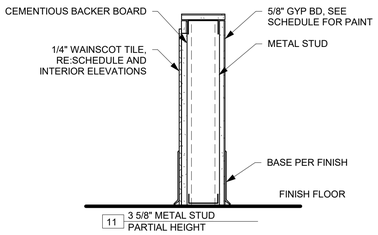
6C 6" METAL STUD
EXTEND TO DECK. TYPE X GYP BOARD. 1 HR FIRE RATING

6D 3-5/8" METAL STUD
EXTEND TO DECK. TYPE X GYP BOARD. 1 HR FIRE RATING

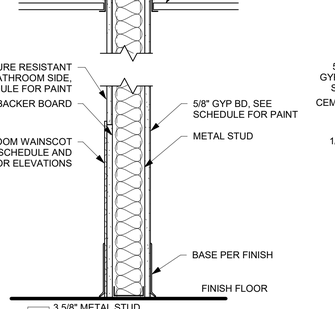


7 3 5/8" METAL STUD
EXTEND TO 6" ABOVE CEILING

7B 6" METAL STUD
EXTEND TO 6" ABOVE CEILING



11 3 5/8" METAL STUD
PARTIAL HEIGHT

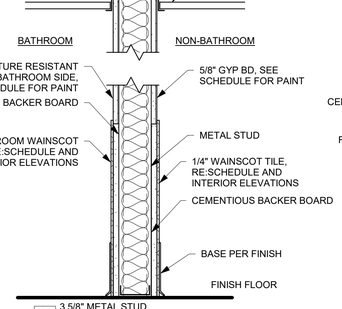


8 3 5/8" METAL STUD
EXTEND TO DECK. WAINSCOT AND MOISTER RESISTANT GYP ON ONE SIDES

8.B 6" METAL STUD
EXTEND TO DECK. WAINSCOT AND MOISTER RESISTANT GYP ON ONE SIDES

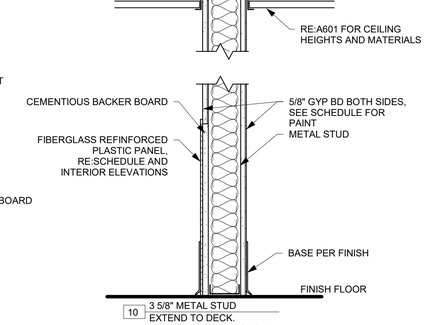
8.C 3 5/8" METAL STUD
EXTEND TO DECK. WAINSCOT AND MOISTER RESISTANT GYP ON BOTH SIDES

8.D 6" METAL STUD
EXTEND TO DECK. WAINSCOT AND MOISTER RESISTANT GYP ON BOTH SIDES



9 3 5/8" METAL STUD
EXTEND TO DECK.

9.B 6" METAL STUD
EXTEND TO DECK.



10 3 5/8" METAL STUD
EXTEND TO DECK. FIBERGLASS REINFORCED PLASTIC PANEL ON ONE SIDE

10B 3 5/8" METAL STUD
EXTEND TO DECK. FIBERGLASS REINFORCED PLASTIC PANEL ON BOTH SIDES

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

STATE OF OKLAHOMA
LICENSED ARCHITECT
No. 9433
NORMAN, OKLA.
06/07/2022
SEAL

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- Architecture
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- Master Planning
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06-30-23

PROJECT NUMBER
M31114

ISSUE DATE
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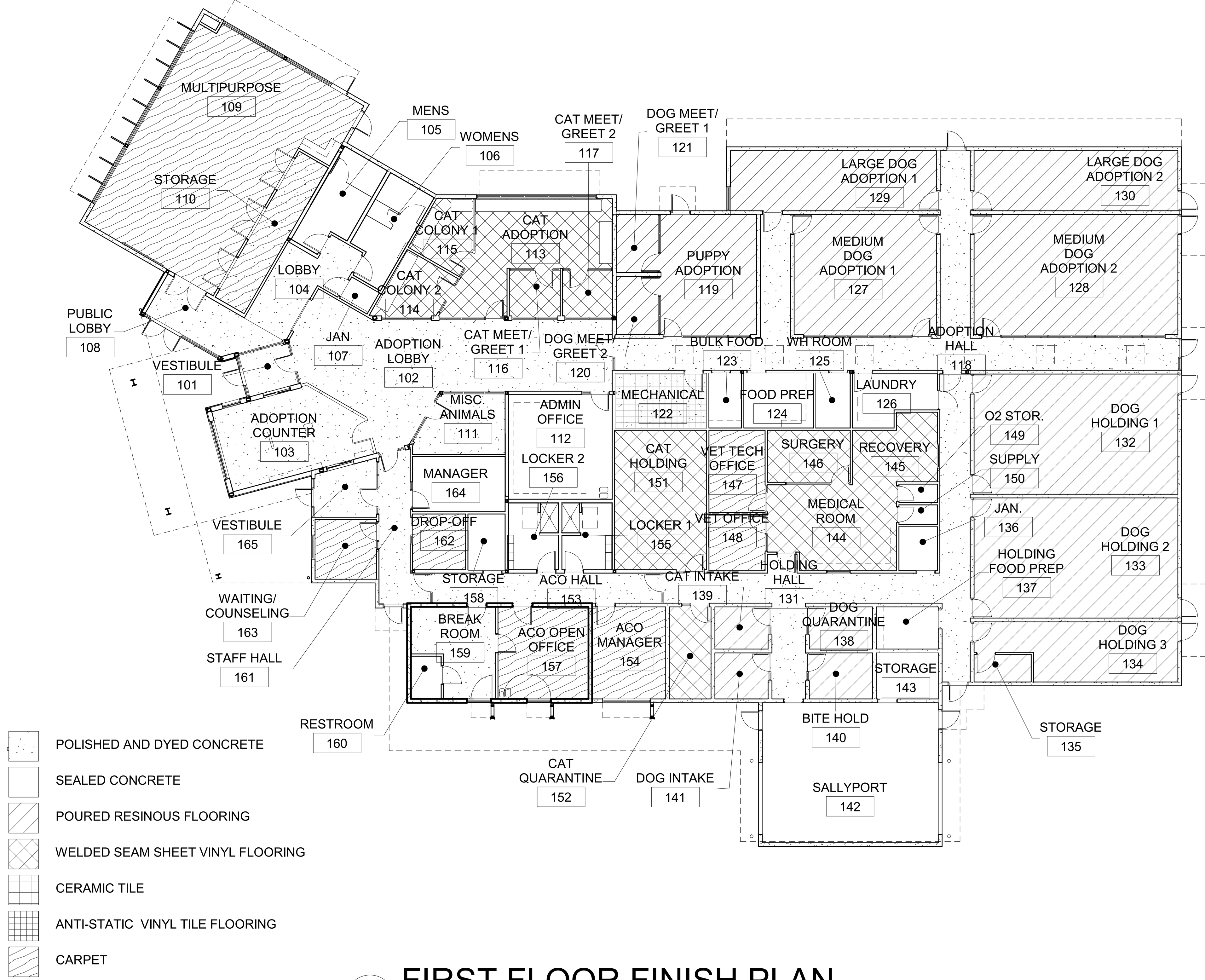
REVISION DATES

SHEET TITLE
WALL TYPES

SHEET NUMBER
A311



1 FIRST FLOOR FINISH PLAN

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

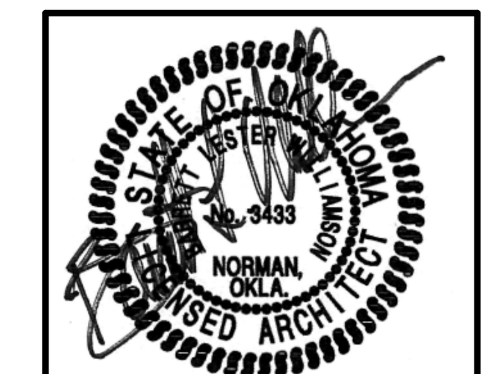
FINISH LEGEND	
FLOOR MATERIAL:	
CONC	CONCRETE
SC	SEALED CONCRETE
PC	POLISHED AND DYED CONCRETE
CT	CERAMIC TILE
VCT	ANTI-STATIC VINYL COMPOSITION TILE
PRF	POURED RESINOUS FLOORING
WSV	WELDED SEAM SHEET VINYL FLOORING
CP	CARPET
BASE MATERIAL:	
RB	RESILIENT BASE
EB	EPOXY RESINOUS INTEGRAL COVE BASE
SV	SHEET VINYL INTEGRAL COVE BASE
WALL MATERIAL:	
GWB	GYPSUM WALL BOARD
CMU	CONCRETE MASONRY UNIT
TILE	CERAMIC WAINSCOT TILE
TILE 2	CERAMIC BATHROOM WAINSCOT TILE
FRP	FIBERGLASS REINFORCED PLASTIC PANEL
WALL FINISH:	
PNT 1	BLUE
PNT 2	YELLOW
PNT 3	GREEN
PNT 4	OFF-WHITE
CEILING MATERIAL:	
ACT1	2' x 2' ACOUSTIC CEILING TILE
ACT 2	2' x 2' WASHABLE ACOUSTIC CEILING TILE
ACT 3	2' x 2' HIGH CAC ACOUSTIC CEILING TILE
WD BAFFLE	WOOD BAFFLE CEILING SYSTEM
GWB	GYPSUM WALL BOARD CEILING

NOTE: PAINT EXPOSED CEILING

ROOM FINISH SCHEDULE

		FLOOR		BASE		WALLS								CEILINGS			
						NORTH		EAST		SOUTH		WEST					
NUMBER	NAME	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	HEIGHT	REMARKS
101	VESTIBULE	CONC	PC	---	---	TILE/GWB		TILE/GWB		TILE/GWB		TILE/GWB		GWB	---	9' - 0"	
102	ADOPTION LOBBY	CONC	PC	---	---	TILE/GWB	PNT 1	TILE/GWB	PNT 2, PNT 3	TILE/GWB	PNT 1	TILE/GWB	PNT 3	WD BAFFLE/GWB	---		SEE ELEVATIONS FOR PAINT SPECIFICS
103	ADOPTION COUNTER	CONC	PC	RB	---	GWB	PNT 1	GWB	PNT 3	GWB	PNT 1	GWB	PNT 3	WD BAFFLE	---		
104	LOBBY	CONC	PC	---	---	TILE/GWB	PNT 2	TILE/GWB	PNT 2	TILE/GWB	PNT 2	TILE/GWB	PNT 2	ACT 1	---	9' - 0"	
105	MENS	CT		---	---	TILE 2/CMU		TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	ACT 1	---	9' - 0"	
106	WOMENS	CT		---	---	TILE 2/CMU		TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	ACT 1	---	9' - 0"	
107	JAN	CONC	SC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---		
108	PUBLIC LOBBY	CONC	PC	---	---	TILE/GWB	PNT 1	TILE/GWB	PNT 3	TILE/GWB	PNT 1	TILE/GWB	PNT 3	ACT 1	---	9' - 0"	
109	MULTIPURPOSE	CP	PC	---	---	TILE/CMU		TILE/CMU/GWB	PNT 4	TILE/CMU/GWB	PNT 4	TILE/CMU		ACT 1	---	9' - 0"	SEE ELEVATIONS FOR PAINT SPECIFICS
110	STORAGE	CONC	PC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---		
111	MISC. ANIMALS	CONC	PC	---	---	---		GWB	PNT 2	GWB	PNT 2	---		ACT 1	---	9' - 0"	
112	ADMIN OFFICE	CP	PC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
113	CAT ADOPTION	WSV		RB	---	CMU		CMU/GWB	PNT 2	GWB	PNT 2	GWB	PNT 2	ACT 1	---	9' - 0"	
114	CAT COLONY 2	WSV		RB	---	GWB	PNT 2	GWB	PNT 2	GWB	PNT 2	GWB	PNT 2	ACT 1	---	9' - 0"	
115	CAT COLONY 1	WSV		RB	---	CMU		GWB	PNT 2	GWB	PNT 2	GWB	PNT 2	ACT 1	---	9' - 0"	
116	CAT MEET/ GREET 1	WSV		RB	---	GWB	PNT 2	GWB	PNT 2	GWB	PNT 2	GWB	PNT 2	ACT 1	---	9' - 0"	
117	CAT MEET/ GREET 2	WSV		RB	---	GWB	PNT 2	CMU		GWB	PNT 2	GWB	PNT 2	ACT 1	---	9' - 0"	
118	ADOPTION HALL	CONC	PC	RB	---	CMU		CMU		CMU/GWB	PNT 3	CMU		ACT 1	---	10' - 0"	
119	PUPPY ADOPTION	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
120	DOG MEET/ GREET 2	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
121	DOG MEET/ GREET 1	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
122	MECHANICAL	VCT		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	---	---		ANTI-STATIC VCT
123	BULK FOOD	CONC	SC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
124	FOOD PREP	CONC	SC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
125	WH ROOM	CONC	SC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	---	---		
126	LAUNDRY	CT		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
127	MEDIUM DOG ADOPTION 1	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
128	MEDIUM DOG ADOPTION 2	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
129	LARGE DOG ADOPTION 1	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
130	LARGE DOG ADOPTION 2	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
131	HOLDING HALL	CONC	PC	RB	---	GWB		CMU		CMU		CMU		ACT 1	---	10' - 0"	
132	DOG HOLDING 1	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
133	DOG HOLDING 2	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
134	DOG HOLDING 3	PRF		EB	---	CMU		CMU		CMU/GWB	PNT 4	CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
135	STORAGE	PRF		EB	---	GWB	PNT 4	GWB	PNT 4	CMU		CMU		ACT 1	---		INTEGRAL COVE BASE
136	JAN.	CONC	SC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---		
137	HOLDING FOOD PREP	CONC	SC	RB	---	CMU		CMU		CMU		CMU		ACT 1	---	9' - 0"	
138	DOG QUARANTINE	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
139	CAT INTAKE	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
140	BITE HOLD	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
141	DOG INTAKE	PRF		EB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	INTEGRAL COVE BASE
142	SALLYPORT	CONC	SC	---	---	CMU		CMU		CMU		CMU		---	---		
143	STORAGE	CONC	SC	RB	---	CMU		CMU		CMU		CMU		---	---	9' - 0"	
144	MEDICAL ROOM	WSV		SV	---	FRP/GWB	PNT 4	FRP/GWB	PNT 4	FRP/GWB	PNT 4	FRP/GWB	PNT 4	ACT 1	---	9' - 0"	INTEGRAL COVE BASE
145	RECOVERY	WSV		SV	---	FRP/GWB	PNT 4	FRP/GWB	PNT 4	FRP/GWB	PNT 4	FRP/GWB	PNT 4	ACT 1	---	9' - 0"	INTEGRAL COVE BASE
146	SURGERY	WSV		SV	---	FRP/GWB	PNT 4	FRP/GWB	PNT 4	FRP/GWB	PNT 4	FRP/GWB	PNT 4	ACT 1	---	9' - 0"	INTEGRAL COVE BASE
147	VET TECH OFFICE	CP		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
148	VET OFFICE	CP		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
149	O2 STOR.	WSV		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---		
150	SUPPLY	WSV		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---		
151	CAT HOLDING	WSV		RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
152	CAT QUARANTINE	WSV		RB	---	CMU		CMU		CMU		CMU		ACT 2	---	9' - 0"	
153	ACO HALL	CONC	PC	RB	---	GWB	PNT 4	GWB	PNT 4	CMU		GWB	PNT 4	ACT 2	---	10' - 0"	
154	ACO MANAGER	CP	PC	RB	---	GWB	PNT 4	CMU		CMU		CMU		ACT 3	---	9' - 0"	HIGH CAC CEILING TI.LE
155	LOCKER 1	CT		---	---	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	ACT 1	---	9' - 0"	
156	LOCKER 2	CT		---	---	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	ACT 1	---	9' - 0"	
157	ACO OPEN OFFICE	CP	PC	RB	---	GWB	PNT 4	CMU		CMU		GWB	PNT 4	ACT 1	---	9' - 0"	
158	STORAGE	CONC	SC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
159	BREAK ROOM	CONC	PC	RB	---	CMU		GWB	PNT 4	CMU/GWB	PNT 4	CMU/GWB	PNT 4	ACT 1	---	9' - 0"	
160	RESTROOM	CT		---	---	TILE 2/GWB	PNT 4	TILE 2/GWB	PNT 4	TILE 2/CMU		TILE 2/CMU		ACT 1	---	9' - 0"	
161	STAFF HALL	CONC	PC	RB	---	GWB	PNT 4	GWB	PNT 4	CMU		GWB	PNT 4	ACT 1	---	10' - 0"	
162	DROP-OFF	CP	PC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
163	WAITING/ COUNSELING	CP	PC	RB	---	GWB	PNT 4	GWB	PNT 4	CMU		CMU		ACT 1	---	9' - 0"	
164	MANAGER	CP	PC	RB	---	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	GWB	PNT 4	ACT 1	---	9' - 0"	
165	VESTIBULE	PRF	PC	EB	---	TILE/GWB	PNT 4	TILE/GWB	PNT 4	TILE/GWB	PNT 4	TILE/GWB	PNT 4	ACT 1	---	9' - 0"	INTEGRAL COVE BASE

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



06/07/2022
SEAL

Barrett L. Williamson
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- Architecture
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- Master Planning
- Interior Design

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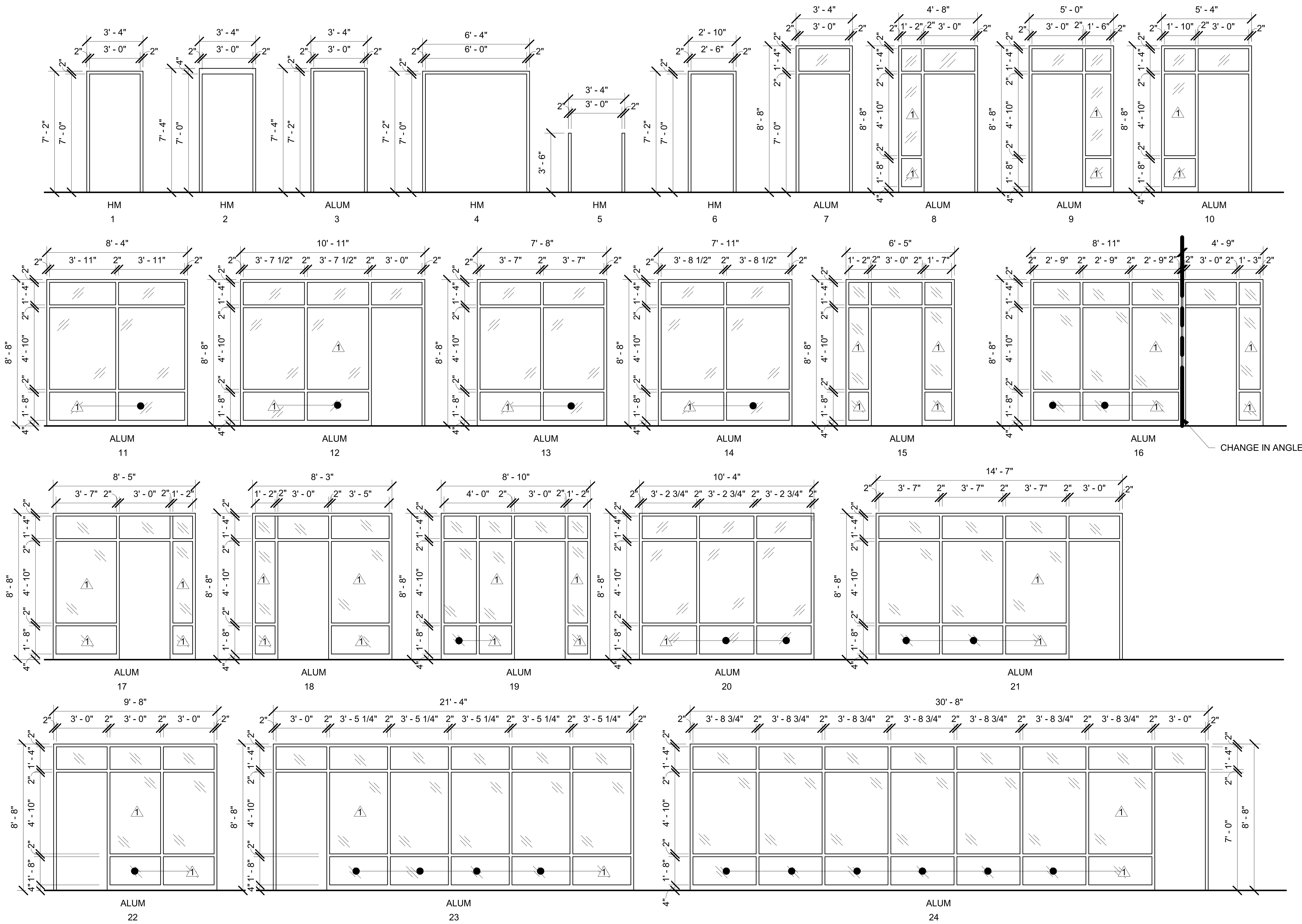
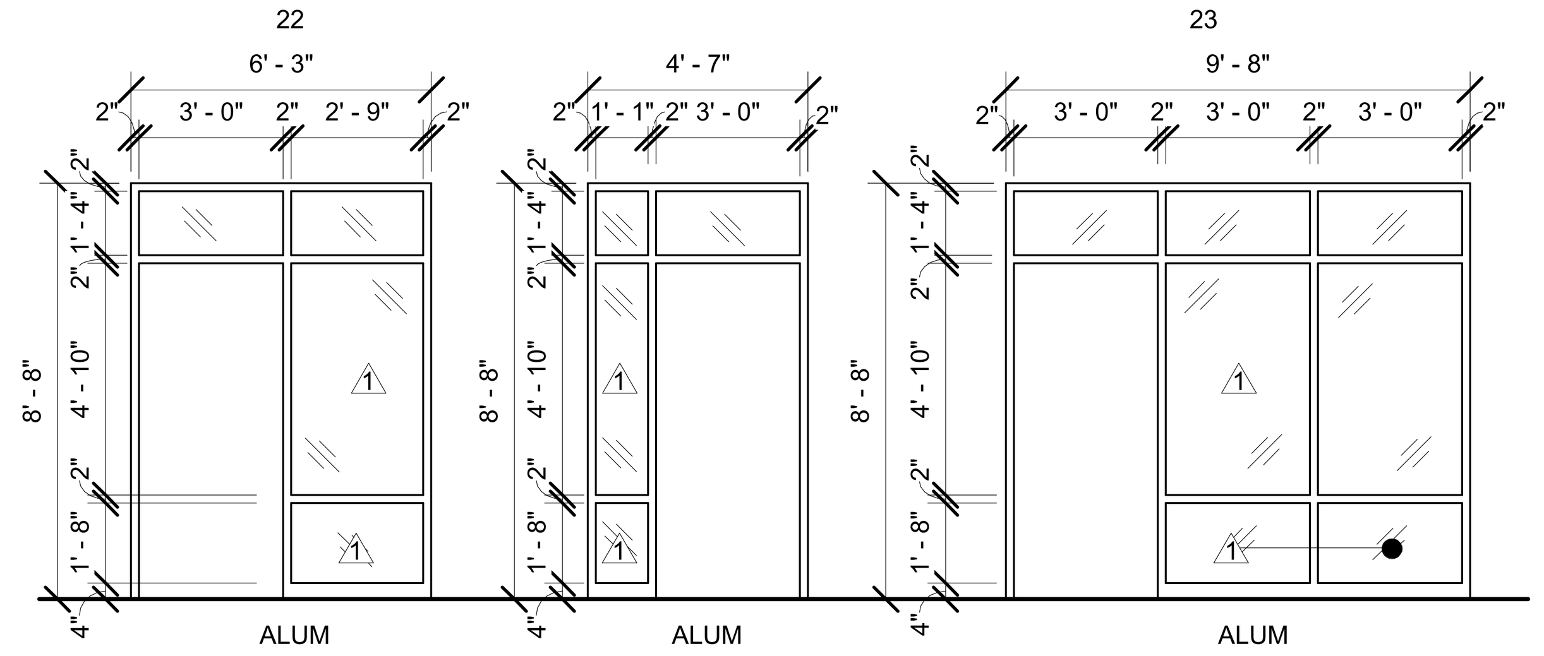
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/07/2022
REVISION DATES

SHEET TITLE
ROOM FINISH SCHEDULE

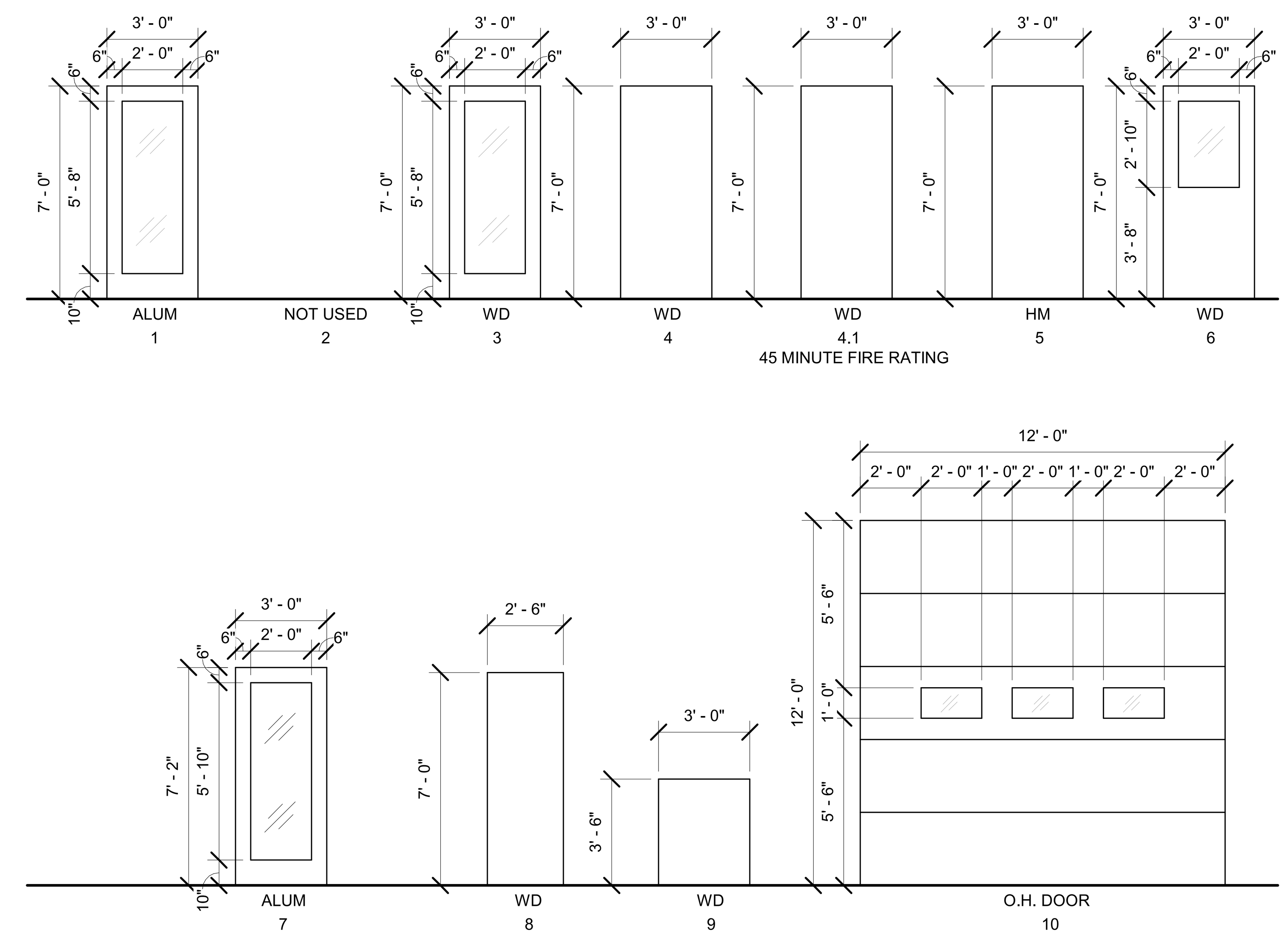
SHEET NUMBER
A401



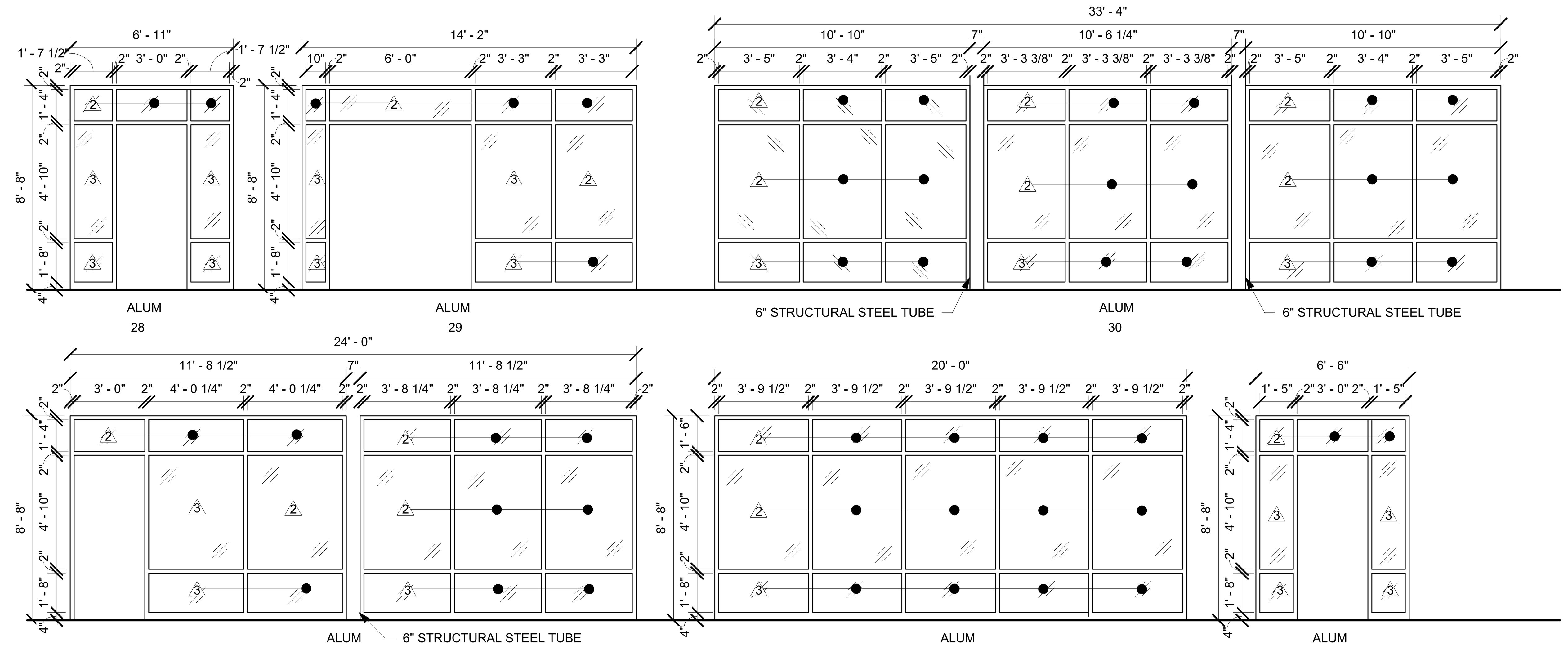


GLAZING TYPES
1 TEMPERED INSULATED GLAZING
2 TINTED INSULATED GLAZING
3 TINTED AND TEMPERED INSULATED GLAZING

1 INTERIOR FRAME TYPES
SCALE: 1/4" = 1'-0"

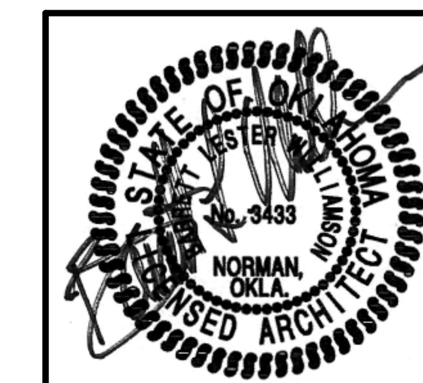


3 DOOR TYPES
SCALE: 1/4" = 1'-0"



2 EXTERIOR FRAME TYPES
SCALE: 1/4" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



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SHEET TITLE
DOOR AND FRAME TYPES

SHEET NUMBER
A402

DOOR SCHEDULE													
	DOOR								FRAME				
	LOCATION					NOMINAL SIZE						HARDWARE SET	
MARK	FROM	TO	TYPE	MAT'L	FINISH	WIDTH	HEIGHT	THICK	TYPE	MAT'L	FINISH		REMARKS
101	EXT	101	1	ALUM		3' - 0"	7' - 0"	1 3/4"	28	ALUM		3.1	PANIC DEVICE, CLOSER, HOLD OPEN
102	101	102	1	ALUM		3' - 0"	7' - 0"	1 3/4"	28	ALUM		6	PANIC DEVICE, CLOSER, PUSH BUTTON
103	102	103	9	WD		3' - 0"	3' - 0"	1 3/4"	5	HM		22	GATE DOOR
104	102	104	---	ALUM		6' - 0"	8' - 0"		---	---	---	26	O.H. COILING DOOR
105	104	105	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		23	CLOSER, HOLD OPEN, SILENCER
106	104	106	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		23	CLOSER, HOLD OPEN, SILENCER
107	104	107	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
108	EXT	108	1	ALUM		6' - 0"	7' - 0"	1 3/4"	29	ALUM		1	PAIR, CLOSER, HOLD OPEN
109A	108	109	4	WD		6' - 0"	7' - 0"	1 3/4"	4	HM		13	PAIR, CLOSER, HOLD OPEN, SILENCER
109B	EXT	109	1	ALUM		3' - 0"	7' - 0"	1 3/4"	31	ALUM		3	PANIC DEVICE, CLOSER, HOLD OPEN
109C	EXT	109	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		3	PANIC DEVICE, CLOSER, HOLD OPEN
110A	109	110	4	WD		6' - 0"	7' - 0"	1 3/4"	4	HM		12	PAIR
110B	109	110	4	WD		6' - 0"	7' - 0"	1 3/4"	4	HM		12	PAIR
110C	109	110	4	WD		6' - 0"	7' - 0"	1 3/4"	4	HM		12	PAIR
111	102	111	1	ALUM		3' - 0"	7' - 0"	1 3/4"	19	ALUM		10	HOLD OPEN
112	102	112	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8	ALUM		17	HOLD OPEN, SILENCER
113	102	113	1	ALUM		3' - 0"	7' - 0"	1 3/4"	12	ALUM		11	CLOSER, HOLD OPEN
114	113	114	1	ALUM		3' - 0"	7' - 0"	1 3/4"	15	ALUM		11	CLOSER, HOLD OPEN
115	113	115	1	ALUM		3' - 0"	7' - 0"	1 3/4"	16	ALUM		11	CLOSER, HOLD OPEN
116	113	116	1	ALUM		3' - 0"	7' - 0"	1 3/4"	17	ALUM		11	CLOSER, HOLD OPEN
117	113	117	1	ALUM		3' - 0"	7' - 0"	1 3/4"	18	ALUM		11	CLOSER, HOLD OPEN
118A	102	118	1	ALUM		3' - 0"	7' - 0"	1 3/4"	10	ALUM		11	CLOSER, HOLD OPEN
118B	EXT	118	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		3	PANIC DEVICE, CLOSER, HOLD OPEN
118C	EXT	118	1	ALUM		3' - 0"	7' - 0"	1 3/4"	10	ALUM		3	PANIC DEVICE, CLOSER, HOLD OPEN
119A	118	119	1	ALUM		3' - 0"	7' - 0"	1 3/4"	21	ALUM		11	CLOSER, HOLD OPEN
119B	EXT	119	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		2	CLOSER
120	119	120	1	ALUM		3' - 0"	7' - 0"	1 3/4"	22	ALUM		11	CLOSER, HOLD OPEN
121	119	121	1	ALUM		3' - 0"	7' - 0"	1 3/4"	22 OH	ALUM		11	CLOSER, HOLD OPEN
122	118	122	4.1	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		15	45 MINUTE FIRE RATING, CLOSER, HOLD OPEN, SILENCER
123	118	123	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
124	118	124	6	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
125	118	125	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
126A	118	126	4	WD		3' - 0"	7' - 0"	1 3/4"	2	HM		16	HOLD OPEN, SILENCER
126B	131	123	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		15	CLOSER, HOLD OPEN, SILENCER
127A	118	127	1	ALUM		3' - 0"	7' - 0"	1 3/4"	23	ALUM		11	CLOSER, HOLD OPEN
127B	118	127	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
127C	118	127	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
128A	118	128	1	ALUM		3' - 0"	7' - 0"	1 3/4"	24	ALUM		11	CLOSER, HOLD OPEN
128B	118	128	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
128C	EXT	128	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		2	CLOSER
129A	118	129	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
129B	118	129	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
130A	118	130	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
130C	EXT	130	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		2	CLOSER
131A	118	131	6	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		14	CLOSER, HOLD OPEN, SILENCER
131B	EXT	131	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		3	PANIC DEVICE, CLOSER, HOLD OPEN
132A	131	132	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN

DOOR SCHEDULE													
	DOOR								FRAME				
	LOCATION					NOMINAL SIZE						HARDWARE SET	
MARK	FROM	TO	TYPE	MAT'L	FINISH	WIDTH	HEIGHT	THICK	TYPE	MAT'L	FINISH		REMARKS
132B	131	132	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
132C	EXT	132	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		2	CLOSER
133A	131	133	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
133B	131	133	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
133C	EXT	133	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		2	CLOSER
134A	131	134	7	ALUM		3' - 0"	7' - 2"	1 3/4"	3	ALUM		11	CLOSER, HOLD OPEN
134B	EXT	134	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		2	CLOSER
135	134	135	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
136	131	136	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
137	131	137	6	WD		3' - 0"	7' - 0"	1 3/4"	2	HM		16	HOLD OPEN, SILENCER
138	131	138	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8	ALUM		11	CLOSER, HOLD OPEN
139	131	139	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8 OH	ALUM		11	CLOSER, HOLD OPEN
140	131	140	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8	ALUM		11	CLOSER, HOLD OPEN
141	131	141	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8 OH	ALUM		11	CLOSER, HOLD OPEN
142A	131	142	5	HM		3' - 0"	7' - 0"	1 3/4"	2	HM		18	CLOSER, HOLD OPEN, SILENCER
142B	EXT	142	5	HM		3' - 0"	7' - 0"	1 3/4"	2	HM		4	CLOSER, HOLD OPEN
142C	EXT	142	5	HM		3' - 0"	7' - 0"	1 3/4"	2	HM		4	CLOSER, HOLD OPEN
142D	EXT	142	10			12' - 0"	12' - 0"	1 1/2"	7			26	O.H. GARAGE DOOR
142E	EXT	142	10			12' - 0"	12' - 0"	1 1/2"	7			26	O.H. GARAGE DOOR
143	142	143	5	HM		3' - 0"	7' - 0"	1 3/4"	2	HM		16	HOLD OPEN
144	131	144	6	HM		3' - 0"	7' - 0"	1 3/4"	1	HM		8	CLOSER, HOLD OPEN
146	144	146	1	ALUM		3' - 0"	7' - 0"	1 3/4"	28	ALUM		21	CLOSER, HOLD OPEN
147	144	147	1	ALUM		3' - 0"	7' - 0"	1 3/4"	27	ALUM		17	HOLD OPEN, SILENCER
148	144	148	1	ALUM		3' - 0"	7' - 0"	1 3/4"	26	ALUM		17	HOLD OPEN, SILENCER
149	144	149	8	WD		2' - 6"	7' - 0"	1 3/4"	6	HM		16	HOLD OPEN, SILENCER
150	144	150	8	WD		2' - 6"	7' - 0"	1 3/4"	6	HM		16	HOLD OPEN, SILENCER
151	131	151	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8	ALUM		11	CLOSER, HOLD OPEN
152	131	152	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8	ALUM		11	CLOSER, HOLD OPEN
153	131	153	1	ALUM		3' - 0"	7' - 0"	1 3/4"	9	ALUM		19	CLOSER, HOLD OPEN, SILENCER
154	153	154	3	WD		3' - 0"	7' - 0"	1 3/4"	2	HM		17	HOLD OPEN, SILENCER
155	153	155	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		20	CLOSER, HOLD OPEN, SILENCER
156	153	156	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		20	CLOSER, HOLD OPEN, SILENCER
157A	153	157	5	HM		3' - 0"	7' - 0"	1 3/4"	2	HM		24	FEMA DOOR, WALL STOP, SILENCER
157B						4' - 0"	4' - 8"	1 3/4"				25	FEMA SHUTTER
158	153	158	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		16	HOLD OPEN, SILENCER
159A	153	159	5	HM		3' - 0"	7' - 0"	1 3/4"	2	HM		24	FEMA DOOR, WALL STOP, SILENCER
159B	157	159	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		17	HOLD OPEN, SILENCER
159C						4' - 0"	4' - 8"	1 3/4"				25	FEMA SHUTTER
160	159	160	4	WD		3' - 0"	7' - 0"	1 3/4"	1	HM		20	CLOSER, HOLD OPEN, SILENCER
161A	153	161	1	ALUM		3' - 0"	7' - 0"	1 3/4"	9	ALUM		7	PANIC DEVICE, CLOSER, HOLD OPEN
161B	EXT	161	1	ALUM		3' - 0"	7' - 0"	1 3/4"	7	ALUM		3	PANIC DEVICE, CLOSER, HOLD OPEN
161C	102	161	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8 OH	ALUM		5	CLOSER, HOLD OPEN
162	161	162	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8	ALUM		17	HOLD OPEN, SILENCER
163	161	163	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8 OH	ALUM		17	HOLD OPEN, SILENCER
164	161	164	1	ALUM		3' - 0"	7' - 0"	1 3/4"	8 OH	ALUM		17	HOLD OPEN, SILENCER
165A	161	165	1	ALUM		3' - 0"	7' - 0"	1 3/4"	19	ALUM		6	PANIC DEVICE, CLOSER, PUSH BUTTON
165B	EXT	165	1	ALUM		3' - 0"	7' - 0"	1 3/4"	33	ALUM		3.1	PANIC DEVICE, CLOSER, HOLD OPEN

MOORE ANIMAL SHELTER
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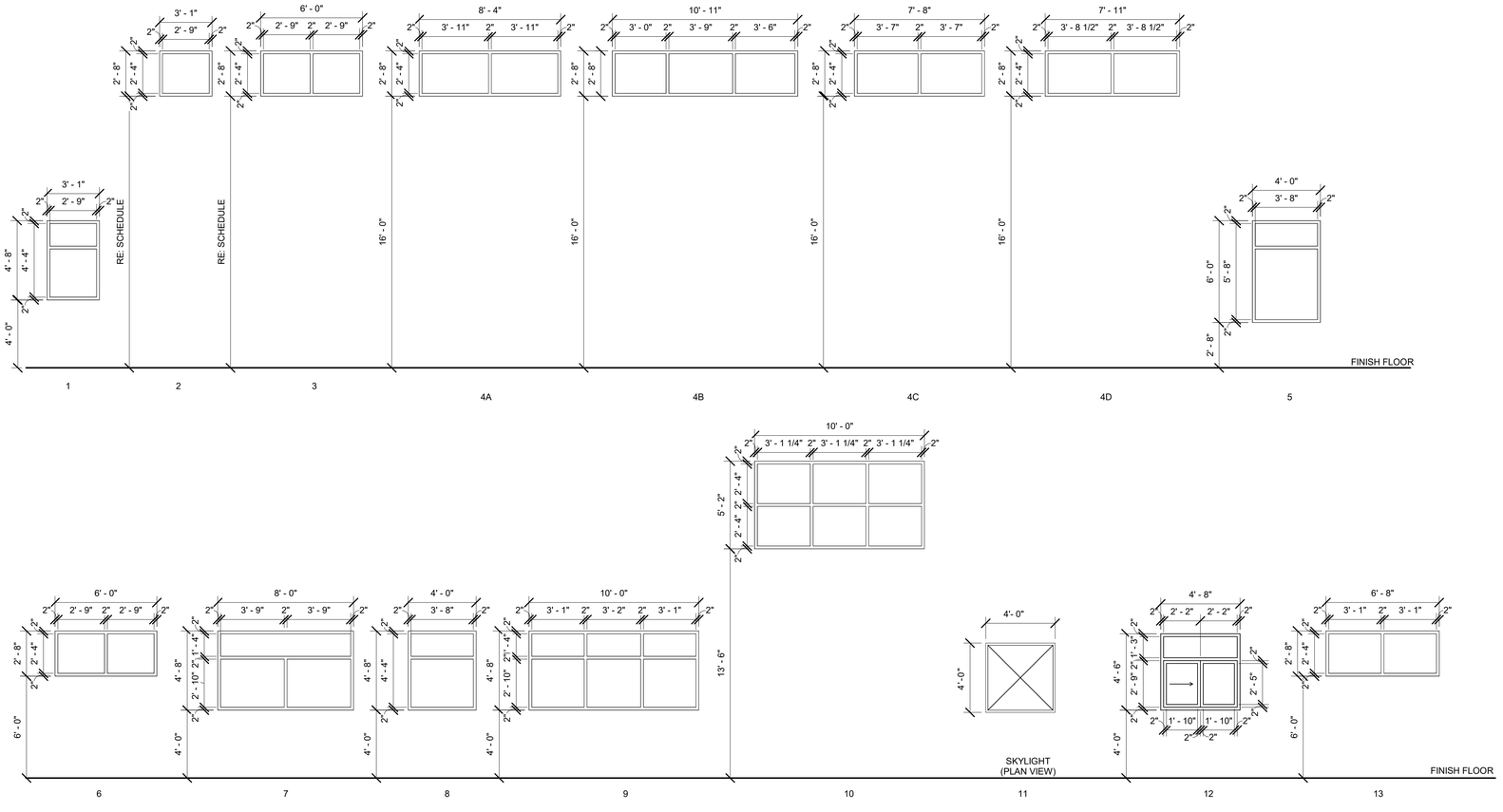
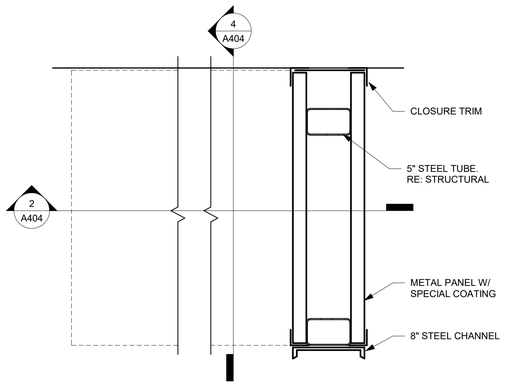
SHEET TITLE
DOOR SCHEDULE

SHEET NUMBER
A403

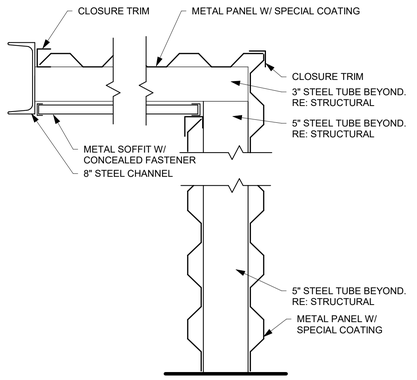


5 WINDOW TYPES
SCALE: 1/4" = 1'-0"

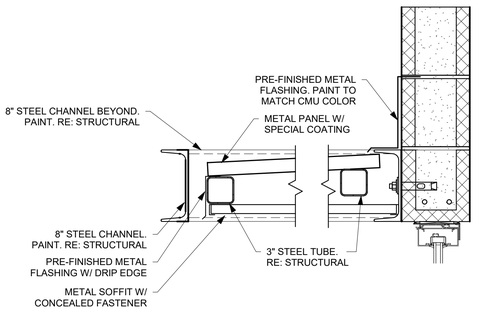
WINDOW SCHEDULE								
Mark	Type Mark	Height	Width	Sill Height	HEAD	JAMB	SILL	Comments
101	1	4' - 8"	3' - 1"	4' - 0"	4/A308	9/A308	16/A308	
102	2	2' - 8"	3' - 1"	16' - 0"	4/A308	9/A308	16/A308	
103	2	2' - 8"	3' - 1"	20' - 0"	4/A308	9/A308	16/A308	
104	2	2' - 8"	3' - 1"	16' - 0"	4/A308	9/A308	16/A308	
105	2	2' - 8"	3' - 1"	20' - 0"	4/A308	9/A308	16/A308	
106	3	2' - 8"	6' - 0"	16' - 0"	4/A308	9/A308	16/A308	
107	3	2' - 8"	6' - 0"	20' - 0"	4/A308	9/A308	16/A308	
108	3	2' - 8"	6' - 0"	16' - 0"	4/A308	9/A308	16/A308	
109	3	2' - 8"	6' - 0"	20' - 0"	4/A308	9/A308	16/A308	
110	3	2' - 8"	6' - 0"	1' - 7"	4/A308	9/A308	16/A308	
111	3	2' - 8"	6' - 0"	20' - 0"	4/A308	9/A308	16/A308	
112	4A	2' - 8"	8' - 4"	16' - 0"	4/A308	9/A308	16/A308	
113	4B	2' - 8"	10' - 11"	16' - 0"	4/A308	9/A308	16/A308	
114	4C	2' - 8"	7' - 8"	16' - 0"	4/A308	9/A308	16/A308	
115	4D	2' - 8"	7' - 11"	16' - 0"	4/A308	9/A308	16/A308	
116	5	6' - 0"	4' - 0"	2' - 8"	20/A308	21/A308	15/A308	
117	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
118	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
119	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
120	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
121	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
122	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
123	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
124	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
125	6	2' - 8"	6' - 0"	6' - 0"	20/A308	21/A308	15/A308	
126	6	2' - 8"	6' - 0"	6' - 0"	20/A308	21/A308	15/A308	
127	6	2' - 8"	6' - 0"	6' - 0"	20/A308	21/A308	15/A308	
128	6	2' - 8"	6' - 0"	6' - 0"	20/A308	21/A308	15/A308	
129	6	2' - 8"	6' - 0"	6' - 0"	20/A308	21/A308	15/A308	
130	6	2' - 8"	6' - 0"	6' - 0"	20/A308	21/A308	15/A308	
131	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
132	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
133	13	2' - 8"	6' - 8"	6' - 0"	20/A308	21/A308	15/A308	
134	7	4' - 8"	8' - 0"	4' - 0"	20/A308	21/A308	15/A308	
135	8	4' - 8"	4' - 0"	4' - 0"	20/A308	21/A308	15/A308	
136	8	4' - 8"	4' - 0"	4' - 0"	20/A308	21/A308	15/A308	
137	8	4' - 8"	4' - 0"	4' - 0"	20/A308	21/A308	15/A308	
138	9	4' - 8"	10' - 0"	4' - 0"	4/A308	9/A308	16/A308	
139	10	5' - 2"	10' - 0"	13' - 6"	4/A308	9/A308	16/A308	
140	11	4' - 0"	4' - 0"					SKYLIGHT
141	11	4' - 0"	4' - 0"					SKYLIGHT
142	11	4' - 0"	4' - 0"					SKYLIGHT
143	11	4' - 0"	4' - 0"					SKYLIGHT
144	11	4' - 0"	4' - 0"					SKYLIGHT
145	11	4' - 0"	4' - 0"					SKYLIGHT
146	12	3' - 0"	4' - 8"	4' - 0"	22/A308	23/A308	24/A308	
147	12	3' - 0"	4' - 8"	4' - 0"	22/A308	23/A308	24/A308	
148	45	3' - 0"	4' - 0"	4' - 0"	22/A308	23/A308	24/A308	
149	45	3' - 0"	4' - 0"	4' - 0"	22/A308	23/A308	24/A308	



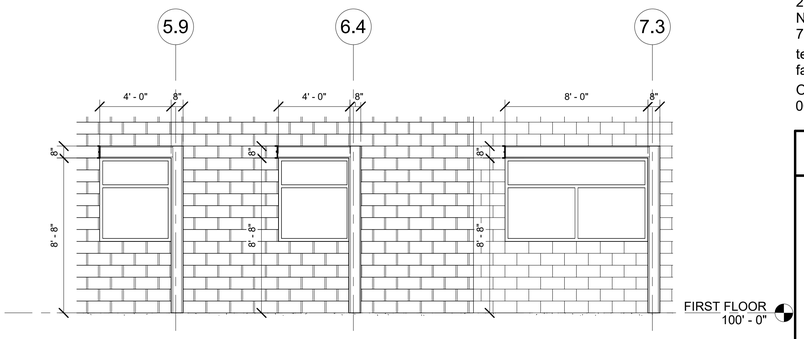
1 WINDOW SUN SCREEN PLAN
SCALE: 1 1/2" = 1'-0"



2 WINDOW SUN SCREEN SECTION 1
SCALE: 1 1/2" = 1'-0"



4 WINDOW SUN SCREEN SECTION 2
SCALE: 1 1/2" = 1'-0"



3 WINDOW SUN SCREEN ELEVATION
SCALE: 1/4" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160

STATE OF OKLAHOMA
No. 9433
REGISTERED
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SHEET TITLE
WINDOW
SCHEDULE
AND TYPES

SHEET NUMBER
A404

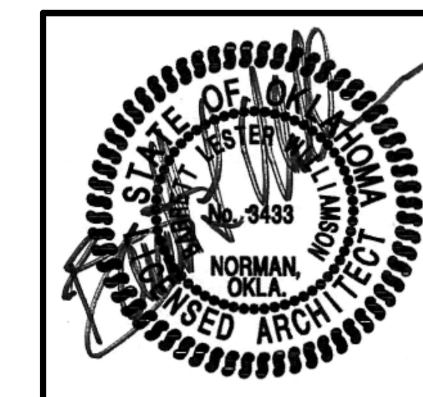
MEDICAL EQUIPMENT SCHEDULE												
ITEM NAME		5' LONG STAINLESS STEEL CABINET	ECONOMY DECK MOUNTED FAUCET	STAINLESS STEEL EXAM TOP FOR 5' TUBS	FLAT TOP HYDRAULIC	PURELINE CEILING MOUNTED LED EXAM LIGHT	PURELINE CEILING MOUNTED LED SURGERY LIGHT	PURELINE M6000 ANESTHESIA MACHINE	VAPORIZER FOR ANESTHESIA MACHINE	30"WX30"H STAINLESS STEEL MODULAR KENNEL	36"WX30"H STAINLESS STEEL MODULAR KENNEL	48"WX30"H STAINLESS STEEL MODULAR DOUBLE DOOR KENNEL
DESCRIPTION		-1 DOOR AND 3 DRAWERS -RIGHT HAND KNEE SPACE	-8' STAINLESS STEEL HOSE -ALUMINUM SPRAY HEAD					-INCLUDE O2 CONCENTRATOR	-CAGE MOUNTED	-CASTER W/ BREAKS	-CASTER W/ BREAKS	-48" PLATFORM -CASTER W/ BREAKS
NO.	ROOM NAME	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI
145	RECOVERY	---	---	---	---	---	---	---	---	2	1	2
146	SURGERY	1	1	1	1	1	1	1	1	---	---	---

MEDICAL EQUIPMENT SCHEDULE
SCALE: 1/4" = 1'-0"

HOLDING EQUIPMENT SCHEDULE															
		ITEM NAME	6' STAINLESS STEEL CAGE ASSEMBLY, OPTION A	STAINLESS STEEL 3.5' CAT SUITE, PLAIN BACK	STAINLESS STEEL 3.5' CAT SUITE, CLEAR BACK	"T-KENNEL" QUAD KENNEL	SHOR-LINR FRONT-TO-BACK KENNEL, ADOPTION	SHOR-LINE SINGLE KENNEL W/ EXTERIOR RUN, ADOPTION	SHOR-LINE EXTERIOR SINGLE RUN	SHOR-LINE FRONT-TO-BACK KENNEL, HOLDING	SHOR-LINE SINGLE KENNEL W/ EXTERIOR RUN, HOLDING	STAINLESS STEEL 3.5' CAT SUITE, HOLDING	SHOR-LINE SINGLE KENNEL, QUARANTINE	3.5' STAINLESS STEEL CAT SUITE, QUARANTINE	48"WX30"H MODULAR DOUBLE DOOR KENNEL
		DESCRIPTION	-3 24"WX30"H CAGES ON TOP -2 36"WX30"H CAGES ON BOTTOM -MOBILE PLATFORM	- 2 24"WX30"HX28.75"D MAIN SUITE W/ CLEAR POLYCARBONATE DOOR W/ VENTILATION, PLAIN BACK. - 2 18"WX30"HX28.75"D LITTER W/ PASSTHROUGH. - 1 DECK/CASTER - SEE PLANS AND ELEVATIONS	- 2 24"WX30"HX28.75"D MAIN SUITE W/ CLEAR POLYCARBONATE DOOR W/ VENTILATION, CLEAR BACK. - 2 18"WX30"HX28.75"D LITTER W/ PASSTHROUGH. - 1 DECK/CASTER - SEE PLANS AND ELEVATIONS	-DOUBLE-TIER BACK-TO-BACK KENNEL. STAINLESS STEEL FRAME W/ PVC PANEL, AND CLEAR TOP SIDE PANELS. -TEMPERED GLASS DOOR -REAR TRANSFER DOOR IN LOWER UNITS -SEE PLANS AND ELEVATIONS	-BACK-TO-BACK KENNEL. STAINLESS STEEL FRAME W/ STAINLESS STEEL PANEL, AND CLEAR TOP SIDE PANELS. -SIDE-TO-SIDE TRANSFER PANELS ON EVERY SECOND KENNEL -TEMPERED GLASS DOOR -REAR TRANSFER DOOR -GALV. FRAME TOP PANEL -SEE PLANS AND ELEVATIONS	-SINGLE KENNEL. STAINLESS STEEL FRAME W/ STAINLESS STEEL PANEL, AND CLEAR TOP SIDE PANELS. NO BACK PANEL. -TEMPERED GLASS DOOR -PVC ISOLATION PANELS -SIDE-TO-SIDE TRANSFER PANELS ON EVERY SECOND KENNEL -GUILLOTINE DOOR ASSEMBLY ON REAR WALL -DOOR BITE GUARD, ACCESS DOOR PASSAGE OPENING -GALV. FRAME TOP PANEL -SEE PLANS AND ELEVATIONS	-SINGLE KENNEL. GALV. FRAME W/ PVC PANEL, AND WIRE MESH TOP SIDE PANELS. NO BACK PANEL. -WIRE MESH DOOR -PVC ISOLATION PANELS -GALV. FRAME TOP PANEL -SEE PLANS AND ELEVATIONS	-BACK-TO-BACK KENNEL. GALV. FRAME W/ PVC PANEL, AND CLEAR TOP SIDE PANELS. (WIRE MESH TOP SIDE PANELS AS BUDGET OPTION) -SIDE-TO-SIDE TRANSFER PANELS ON EVERY SECOND KENNEL -TEMPERED GLASS DOOR (WIRE MESH DOOR AS BUDGET OPTION) -REAR TRANSFER DOOR -GALV. FRAME TOP PANEL -SEE PLANS AND ELEVATIONS	-SINGLE KENNEL. GALV. FRAME W/ PVC PANEL, AND CLEAR TOP SIDE PANELS (WIRE MESH TOP SIDE PANELS AS BUDGET OPTION) NO BACK PANEL. -SIDE-TO-SIDE TRANSFER PANELS ON EVERY SECOND KENNEL -TEMPERED GLASS DOOR -PVC ISOLATION PANELS -GUILLOTINE DOOR ASSEMBLY ON REAR WALL -DOOR BITE GUARD, ACCESS DOOR PASSAGE OPENING -GALV. FRAME TOP PANEL -SEE PLANS AND ELEVATIONS	- 2 24"WX30"HX28.75"D MAIN SUITE W/ FULL GRILL WIRE DOOR, PLAIN BACK. - 2 18"WX30"HX28.75"D LITTER W/ PASSTHROUGH. - 1 DECK/CASTER - SEE PLANS AND ELEVATIONS	-SINGLE KENNEL. STAINLESS STEEL FRAME W/ STAINLESS STEEL ISOLATION DIVIDER PANELS -PVC/WIRE ISOLATION DOOR -GALV. FRAME TOP PANEL -SEE PLANS AND ELEVATIONS	-42"WX30"HX28.75"D MAIN SUITE W/ FULL GRILL STAINLESS STEEL DOOR AND LITTER AREA. -STAINLESS STEEL MOBILE PLATFORM -CASTER W/ BRAKES - SEE PLANS AND ELEVATIONS	-SINGLE KENNEL. STAINLESS STEEL FRAME W/ STAINLESS STEEL ISOLATION DIVIDER PANELS -PVC/WIRE ISOLATION DOOR -GALV. FRAME TOP PANEL -STAINLESS STEEL PLATFORM -CASTER W/ BREAKS -SEE PLANS AND ELEVATIONS
NO.	ROOM NAME	TOTAL HOLDING	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI	OPCI
111	MISC. ANIMALS	3 BANKS (15 ANIMALS)	3 (5 ANIMALS PER ASSEMBLY)	---	---	---	---	---	---	---	---	---	---	---	---
113	CAT ADOPTION	8 SUITES (16 CATS)	---	2 (2 CATS PER SUITE)	6 (2 CATS PER SUITE)	---	---	---	---	---	---	---	---	---	---
114	CAT COLONY 1	3 SUITES (6 CATS)	---	3 (2 CATS PER SUITE)	---	---	---	---	---	---	---	---	---	---	---
115	CAT COLONY 2	3 SUITES (6 CATS)	---	3 (2 CATS PER SUITE)	---	---	---	---	---	---	---	---	---	---	---
119	PUPPY ADOPTION	4 KENNELS (8 DOGS)	---	---	---	4 (2 DOGS PER KENNEL)	---	---	---	---	---	---	---	---	---
127	MEDIUM DOG ADOPTION 1	6 KENNELS (6 DOGS)	---	---	---	---	6 (1 DOG PER KENNEL)	---	---	---	---	---	---	---	---
128	MEDIUM DOG ADOPTION 2	9 KENNELS (9 DOGS)	---	---	---	---	9 (1 DOG PER KENNEL)	---	---	---	---	---	---	---	---
129	LARGE DOG ADOPTION 1	12 KENNELS (12 DOGS)	---	---	---	---	---	12 (1 DOG PER KENNEL)	12	---	---	---	---	---	---
130	LARGE DOG ADOPTION 2	12 KENNELS (12 DOGS)	---	---	---	---	---	12 (1 DOG PER KENNEL)	12	---	---	---	---	---	---
132	DOG HOLDING 1	10 KENNELS (10 DOGS)	---	---	---	---	---	---	---	10 (1 DOG PER KENNEL)	---	---	---	---	---
133	DOG HOLDING 2	10 KENNELS (10 DOGS)	---	---	---	---	---	---	---	10 (1 DOG PER KENNEL)	---	---	---	---	---
134	DOG HOLDING 3	9 KENNELS (9 DOGS)	---	---	---	---	---	---	9	---	9 (1 DOG PER KENNEL)	---	---	---	---
138	DOG QUARANTINE	2 KENNELS (2 DOGS)	---	---	---	---	---	---	---	---	---	---	2 (1 DOG PER KENNEL)	---	---
139	CAT INTAKE	2 SUITES (2 CATS)	---	---	---	---	---	---	---	---	---	---	---	2 (1 CAT PER SUITE)	---
140	BITE HOLDING	2 KENNELS (2 DOGS)	---	---	---	---	---	---	---	---	---	---	2 (1 DOG PER KENNEL)	---	---
141	DOG INTAKE	6 KENNELS (6 DOGS)	---	---	---	---	---	---	---	---	---	---	---	---	2 (1 DOG PER KENNEL)
151	CAT HOLDING	10 SUITES (20 CATS)	---	---	---	---	---	---	---	---	---	10 (2 CATS PER SUITE)	---	---	---
152	CAT QUARANTINE	8 SUITES (8 CATS)	---	---	---	---	---	---	---	---	---	---	---	8 (1 CAT PER SUITE)	---

HOLDING EQUIPMENT SCHEDULE
SCALE: 1/4" = 1'-0"

MOORE ANIMAL SHELTER
1316 SW 34TH STREET,
MOORE, OK 73160



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Barrett L. Williamson
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OK CA No. 01771
06-30-23

PROJECT NUMBER
M31114

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SHEET TITLE
EQUIPMENT SCHEDULE

SHEET NUMBER
A405

FFE SCHEDULE

NO.	ROOM NAME	DESCRIPTION	QUANTITY	MANUFACTURER	LOCATION	NOTES
102	ADOPTION LOBBY	STACKABLE CHAIR	6	---	FLOOR	---
		60" x 18" BENCH	9	---	FLOOR	---
103	ADOPTION COUNTER	COMPUTER CHAIR	4	---	FLOOR	---
		COMPUTER WORK STATION	3	---	COUNTER/ DESKTOP	---
		PHONE SET	4	---	COUNTER/ DESKTOP	---
		SCANNER/PRINTER	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
104	LOBBY	HIGH/LOW DRINKING FOUNTAIN AND BOTTLE FILLER	1	---	WALL MOUNTED	---
109	MULTIPURPOSE ROOM	STACKABLE CHAIR	63	---	FLOOR	CAN BE STORED ON CADDIES IN ROOM 110
		72" x 30" FOLDING TABLE	15	---	FLOOR	CAN BE STORED ON CADDIES IN ROOM 110
		LECTERN PODIUM	1	---	FLOOR	---
		PULL-DOWN PROJECTOR SCREEN	1	---	CEILING MOUNTED	---
		DIGITAL PROJECTOR	1	---	CEILING MOUNTED	---
110	STORAGE	CHAIR CADDY	8	---	FLOOR	USED TO STORE CHAIRS FOR ROOM 109
		TABLE CADDY	2	---	FLOOR	USED TO STORE TABLES FOR ROOM 109
112	ADMIN OFFICE	COMPUTER CHAIR	5	---	FLOOR	---
		COMPUTER WORK STATION	5	---	COUNTER/ DESKTOP	---
		PHONE SET	5	---	COUNTER/ DESKTOP	---
		SCANNER/PRINTER	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
		48" CIRCULAR TABLE	1	---	FLOOR	---
		STACKABLE CHAIR	4	---	FLOOR	---
		30" x 15" 3-DRAWER LATERAL FILE CABINET	3	---	FLOOR	---
116	CAT MEET/GREET 1	84" x 18" BENCH	1	---	FLOOR	---
117	CAT MEET/GREET 2	84" x 18" BENCH	1	---	FLOOR	---
120	DOG MEET/GREET 1	36" x 18" BENCH	1	---	FLOOR	---
		STACKABLE CHAIR	1	---	FLOOR	---
121	DOG MEET/GREET 2	36" x 18" BENCH	1	---	FLOOR	---
		STACKABLE CHAIR	1	---	FLOOR	---
126	LAUNDRY	STACKED WASHER/DRYER COMBO	2	---	FLOOR	---
147	VET TECH OFFICE	COMPUTER CHAIR	2	---	FLOOR	---
		COMPUTER WORK STATION	2	---	COUNTER/ DESKTOP	---
		PHONE SET	2	---	COUNTER/ DESKTOP	---
		60" x 30" DESK	2	---	FLOOR	---
		SCANNER/PRINTER	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
		30" x 15" 3-DRAWER LATERAL FILE CABINET	2	---	FLOOR	---
148	VET OFFICE	COMPUTER CHAIR	1	---	FLOOR	---
		COMPUTER WORK STATION	1	---	COUNTER/ DESKTOP	---
		PHONE SET	1	---	COUNTER/ DESKTOP	---
		60" x 30" DESK	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
		30" x 15" 3-DRAWER LATERAL FILE CABINET	1	---	FLOOR	---

NO.	ROOM NAME	DESCRIPTION	QUANTITY	MANUFACTURER	LOCATION	NOTES
154	ACO MANAGER	COMPUTER CHAIR	1	---	FLOOR	---
		COMPUTER WORK STATION	1	---	COUNTER/ DESKTOP	---
		PHONE SET	1	---	COUNTER/ DESKTOP	---
		60" x 30" DESK W/ SIDE TABLE	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
		30" x 15" 3-DRAWER LATERAL FILE CABINET	3	---	FLOOR	---
		36" CIRCULAR TABLE	1	---	FLOOR	---
		STACKABLE CHAIR	4	---	FLOOR	---
		72" x 18" SHELVING UNIT	1	---	FLOOR	---
155	LOCKER 1	LOCKER	4	---	FLOOR	---
		36" x 18" BENCH	1	---	FLOOR	---
156	LOCKER 2	LOCKER	4	---	FLOOR	---
		36" x 18" BENCH	1	---	FLOOR	---
157	ACO OPEN OFFICE	COMPUTER CHAIR	5	---	FLOOR	---
		COMPUTER WORK STATION	5	---	COUNTER/ DESKTOP	---
		PHONE SET	5	---	COUNTER/ DESKTOP	---
		SCANNER/PRINTER	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
159	BREAK ROOM	33" REFRIGERATOR	1	---	FLOOR	---
		30" STOVETOP AND OVEN RANGE	1	---	FLOOR	---
		24" DISHWASHER	1	---	FLOOR	---
		90" x 24" TABLE	1	---	FLOOR	---
		STACKABLE CHAIR	3	---	FLOOR	---
162	DROP OFF	COMPUTER CHAIR	1	---	FLOOR	---
		COMPUTER WORK STATION	1	---	COUNTER/ DESKTOP	---
		PHONE SET	1	---	COUNTER/ DESKTOP	---
		60" x 30" DESK	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
163	WAITING/COUNSELING	COMPUTER CHAIR	1	---	FLOOR	---
		COMPUTER WORK STATION	1	---	COUNTER/ DESKTOP	---
		PHONE SET	1	---	COUNTER/ DESKTOP	---
		60" x 30" DESK	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
		STACKABLE CHAIR	3	---	FLOOR	---
		30" x 15" 3-DRAWER LATERAL FILE CABINET	1	---	FLOOR	---
		48" x 10" SHELVING UNIT	1	---	FLOOR	---
164	MANAGER OFFICE	COMPUTER CHAIR	1	---	FLOOR	---
		COMPUTER WORK STATION	1	---	COUNTER/ DESKTOP	---
		PHONE SET	1	---	COUNTER/ DESKTOP	---
		60" x 30" DESK	1	---	FLOOR	---
		TRASH CONTAINER	1	---	FLOOR	---
		RECYCLING BIN	1	---	FLOOR	---
		30" x 15" 3-DRAWER LATERAL FILE CABINET	2	---	FLOOR	---
		48" x 10" SHELVING UNIT	1	---	FLOOR	---

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No. 9433
NORMAN, OKLA.
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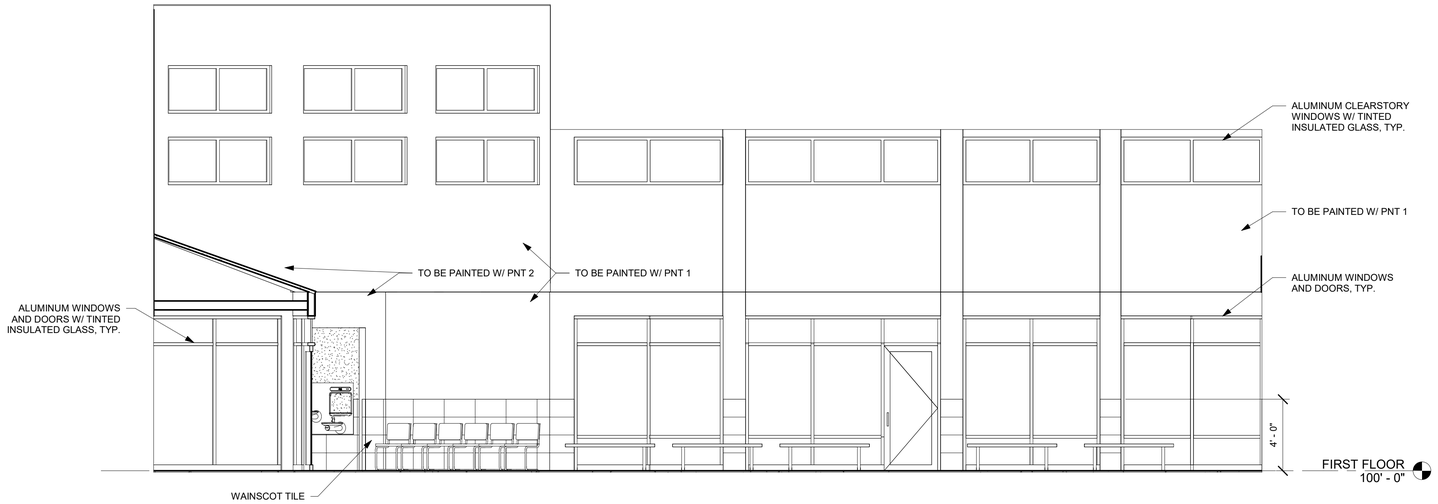
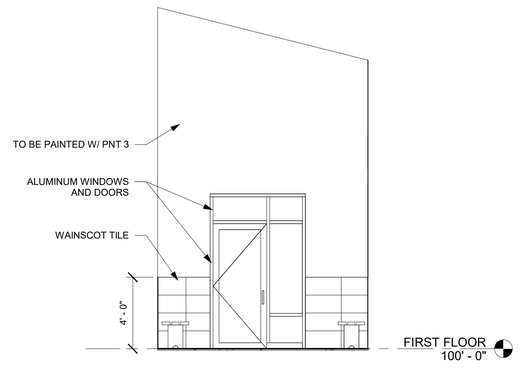
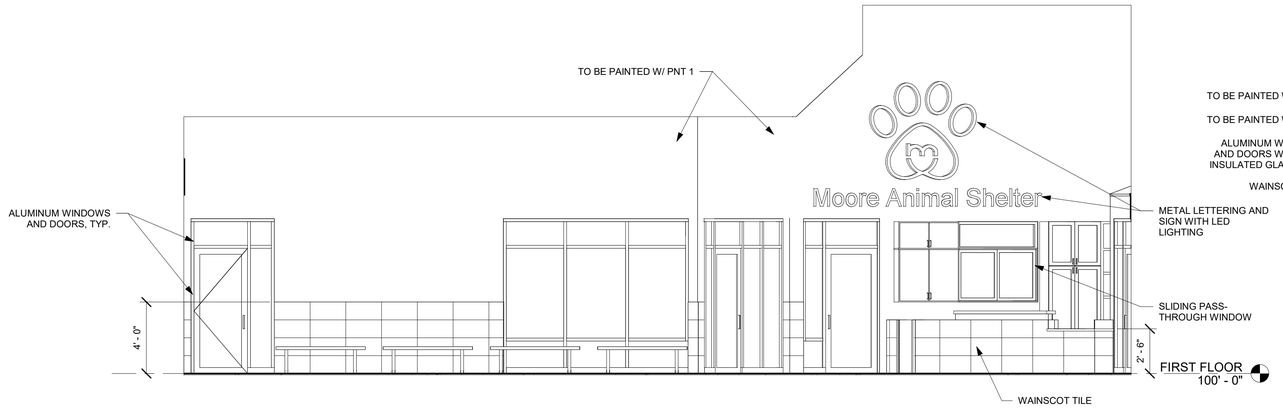
A406



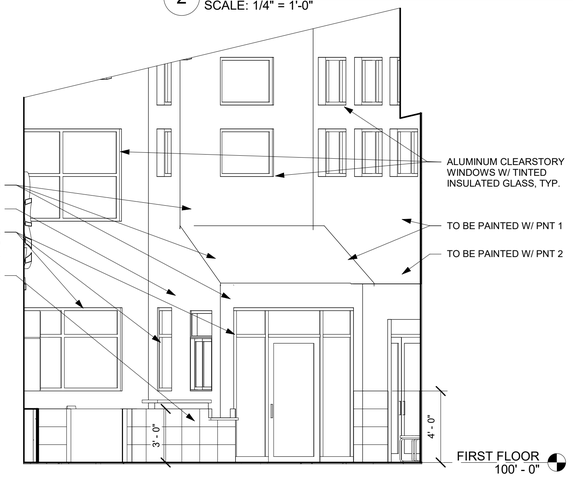
1 INTERIOR ELEVATION 1 - NORTH
SCALE: 1/4" = 1'-0"



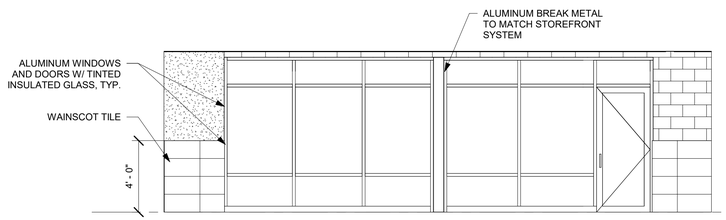
2 INTERIOR ELEVATION 1 - EAST
SCALE: 1/4" = 1'-0"



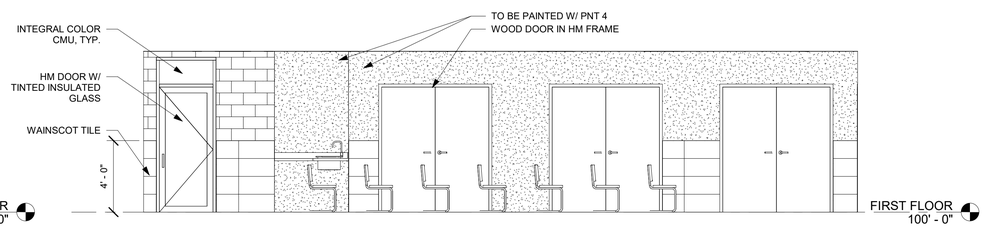
3 INTERIOR ELEVATION 1 - SOUTH
SCALE: 1/4" = 1'-0"



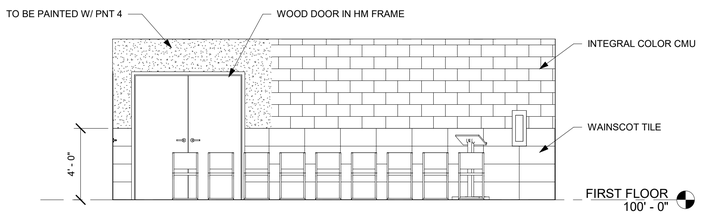
4 INTERIOR ELEVATION 1 - WEST
SCALE: 1/4" = 1'-0"



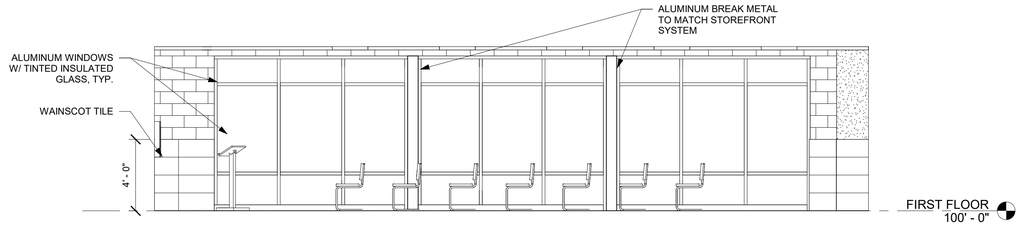
5 INTERIOR ELEVATION 2 - NORTH
SCALE: 1/4" = 1'-0"



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



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



8 INTERIOR ELEVATION 2 - WEST
SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS

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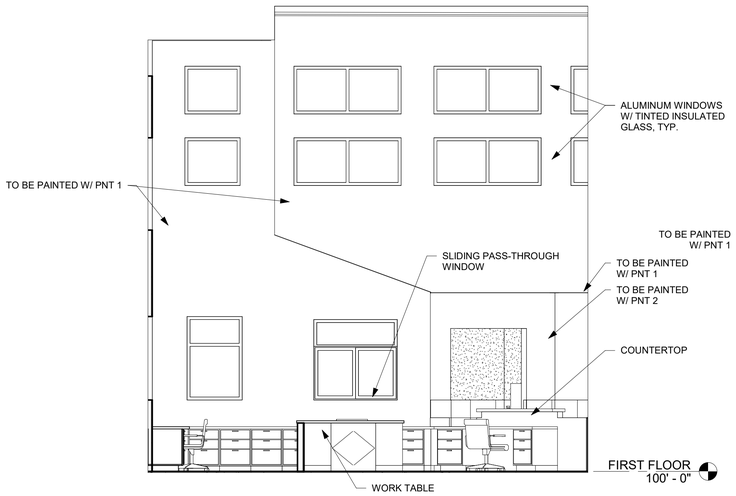
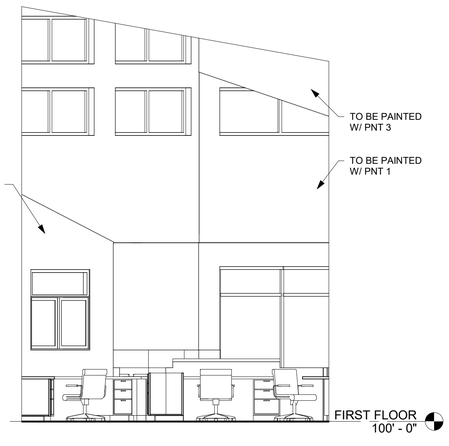
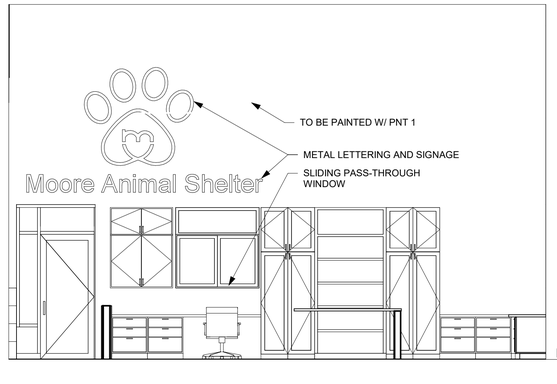
A501



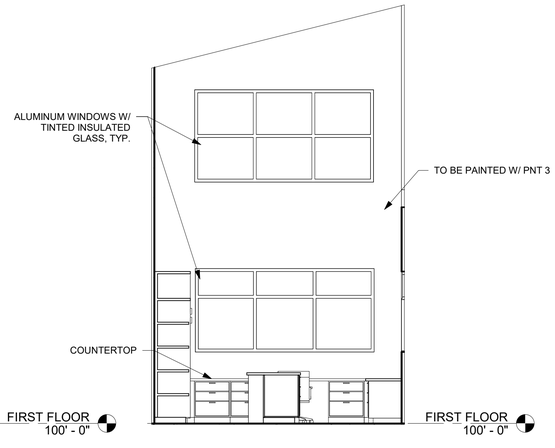
1 INTERIOR ELEVATION 3 - NORTH
SCALE: 1/4" = 1'-0"



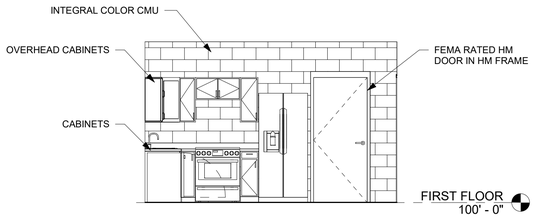
2 INTERIOR ELEVATION 3 - EAST
SCALE: 1/4" = 1'-0"



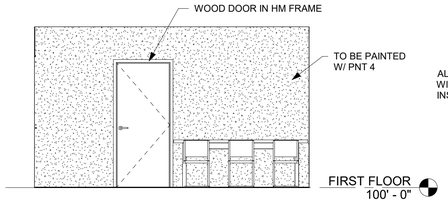
3 INTERIOR ELEVATION 3 - SOUTH
SCALE: 1/4" = 1'-0"



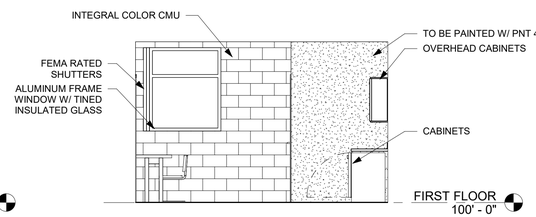
4 INTERIOR ELEVATION 3 - WEST
SCALE: 1/4" = 1'-0"



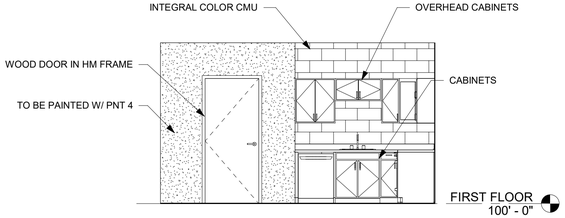
5 INTERIOR ELEVATION 4 - NORTH
SCALE: 1/4" = 1'-0"



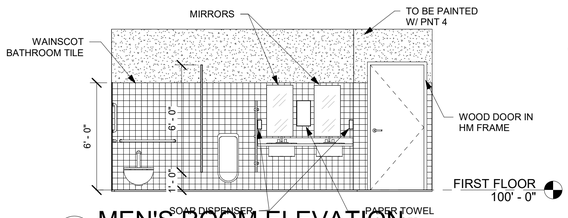
6 INTERIOR ELEVATION 4 - EAST
SCALE: 1/4" = 1'-0"



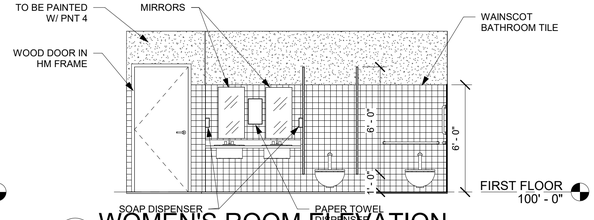
7 INTERIOR ELEVATION 4 - SOUTH
SCALE: 1/4" = 1'-0"



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



9 MEN'S ROOM ELEVATION
SCALE: 1/4" = 1'-0"



10 WOMEN'S ROOM ELEVATION
SCALE: 1/4" = 1'-0"

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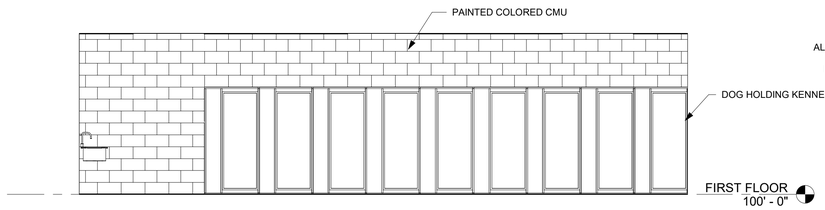
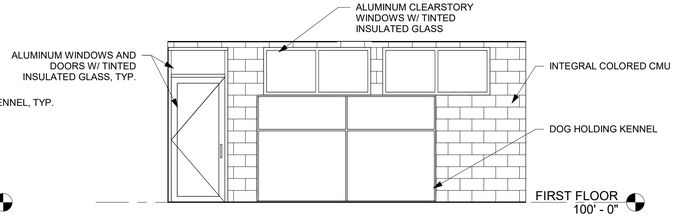
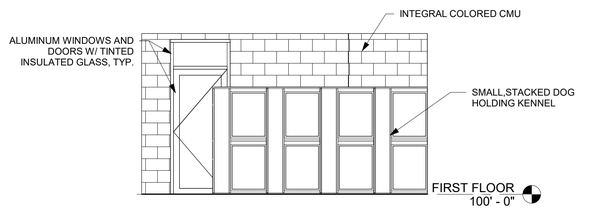


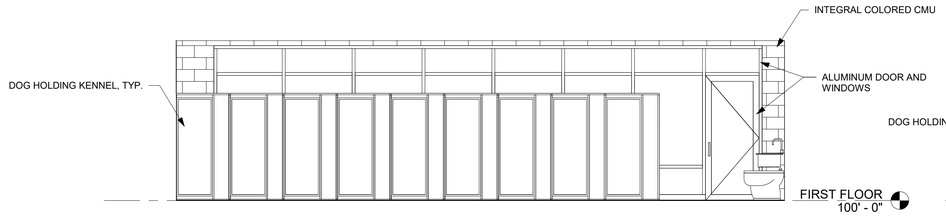
1 INTERIOR ELEVATION 5 - NORTH
SCALE: 1/4" = 1'-0"



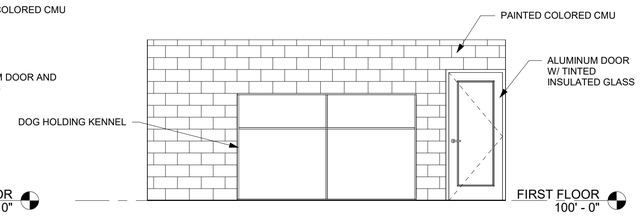
2 INTERIOR ELEVATION 5 - EAST
SCALE: 1/4" = 1'-0"



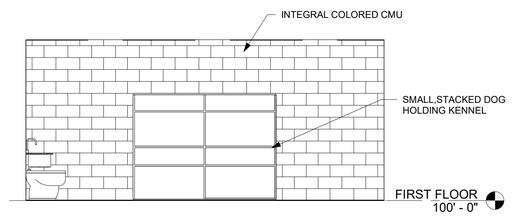
10 INTERIOR ELEVATION 8 -NORTH
SCALE: 1/4" = 1'-0"



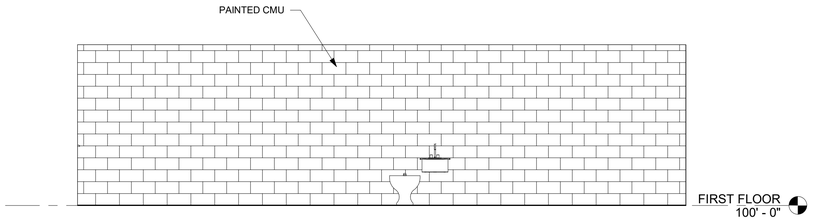
3 INTERIOR ELEVATION 5 - SOUTH
SCALE: 1/4" = 1'-0"



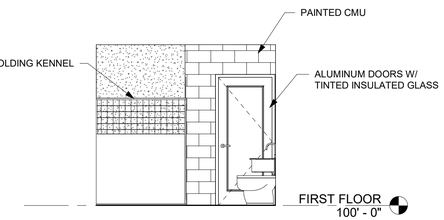
4 INTERIOR ELEVATION 5 - WEST
SCALE: 1/4" = 1'-0"



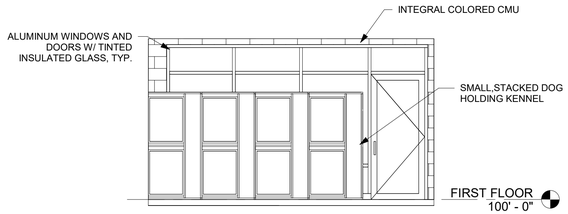
11 INTERIOR ELEVATION 8 -EAST
SCALE: 1/4" = 1'-0"



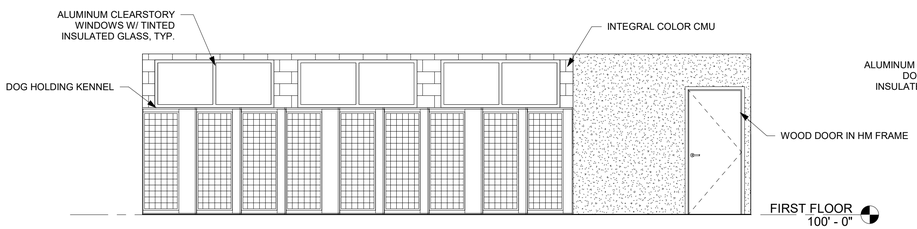
5 INTERIOR ELEVATION 6 - NORTH
SCALE: 1/4" = 1'-0"



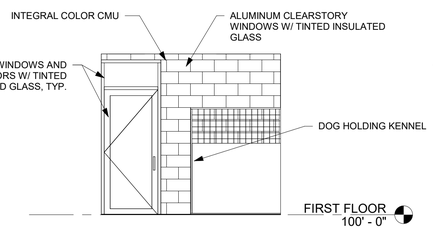
6 INTERIOR ELEVATION 6 - WEST
SCALE: 1/4" = 1'-0"



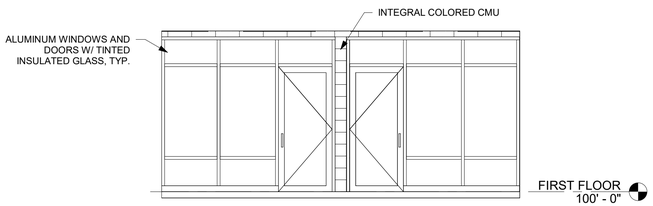
12 INTERIOR ELEVATION 8 -SOUTH
SCALE: 1/4" = 1'-0"



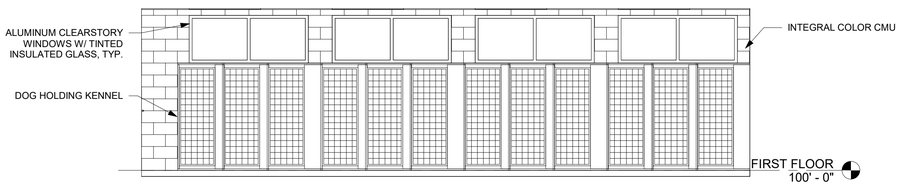
8 INTERIOR ELEVATION 6 - SOUTH
SCALE: 1/4" = 1'-0"



7 INTERIOR ELEVATION 6 - EAST
SCALE: 1/4" = 1'-0"



13 INTERIOR ELEVATION 8 -WEST
SCALE: 1/4" = 1'-0"



9 INTERIOR ELEVATION 7 - NORTH
SCALE: 1/4" = 1'-0"

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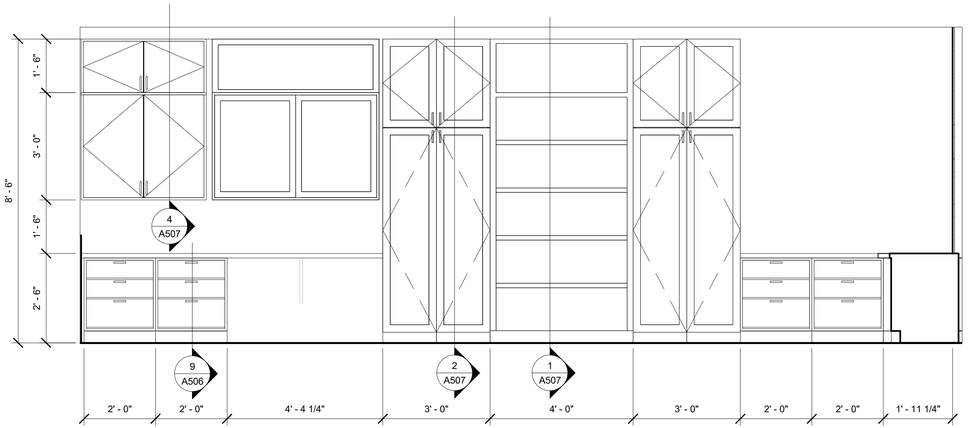
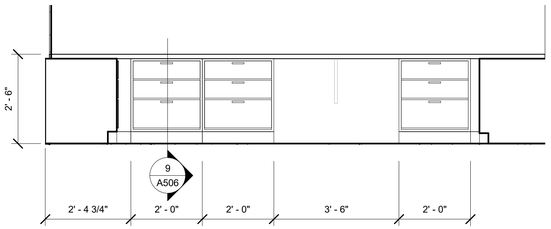


1 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



2 MILLWORK ELEVATION
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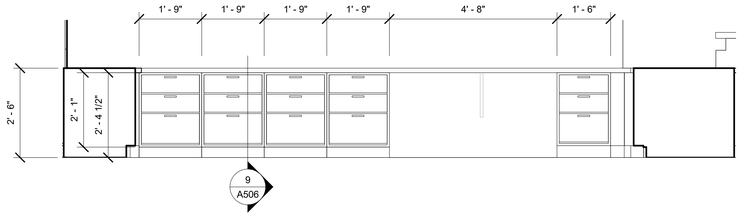
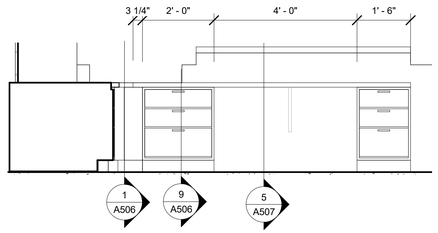
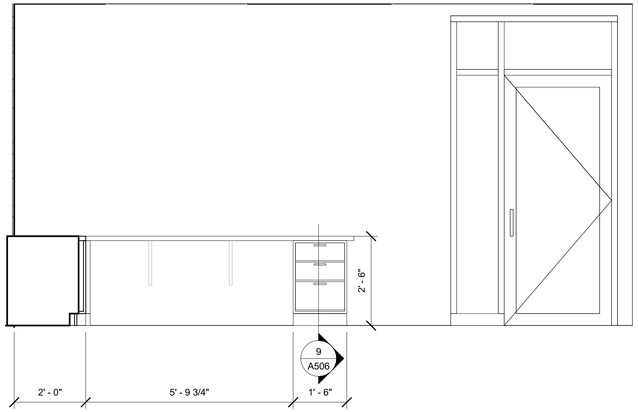


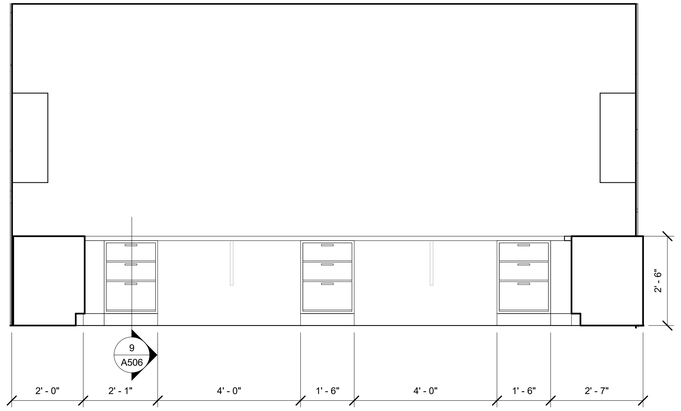
3 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



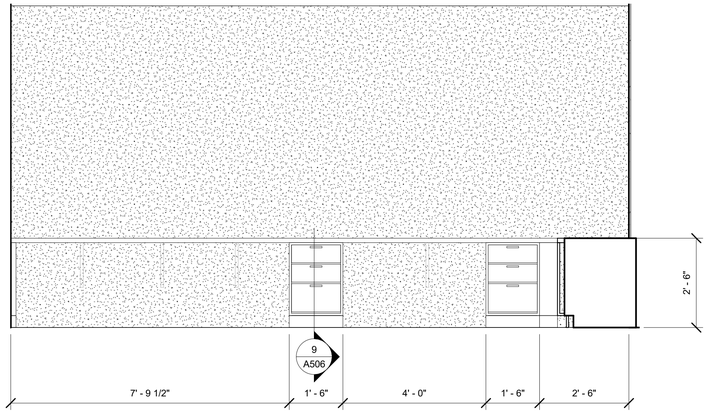
4 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



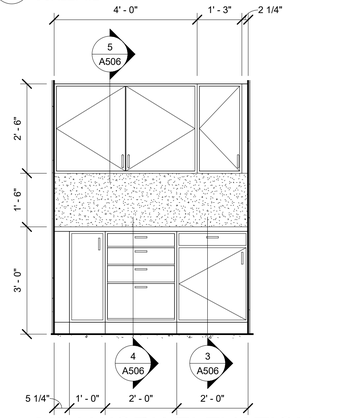
5 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



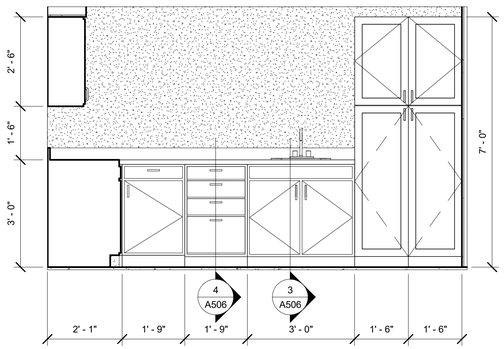
6 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



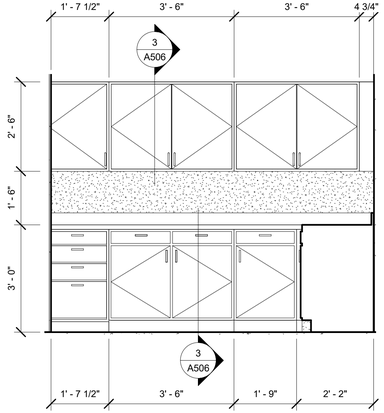
7 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



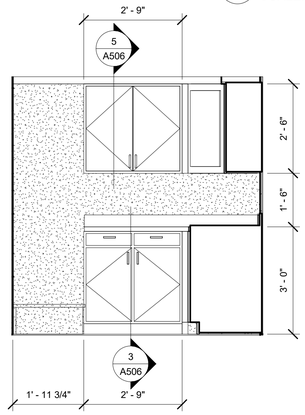
8 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



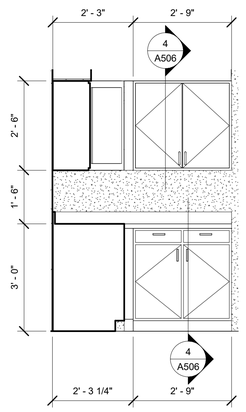
9 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



10 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



12 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



11 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"

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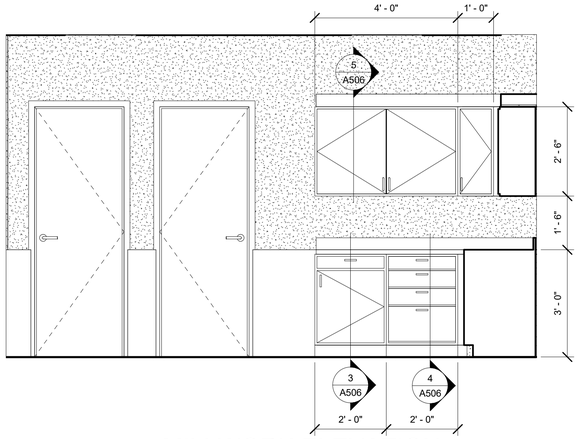
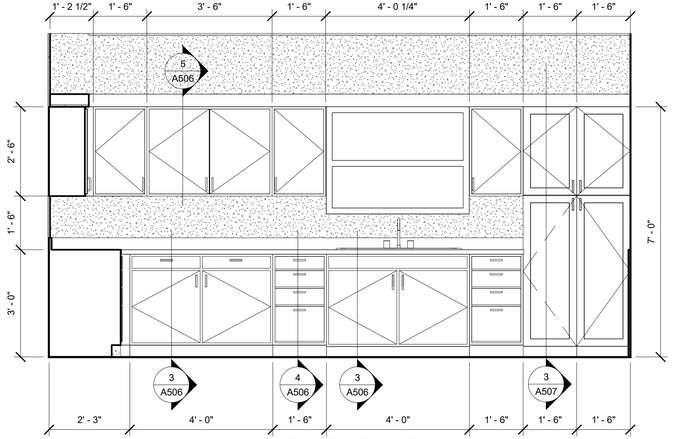
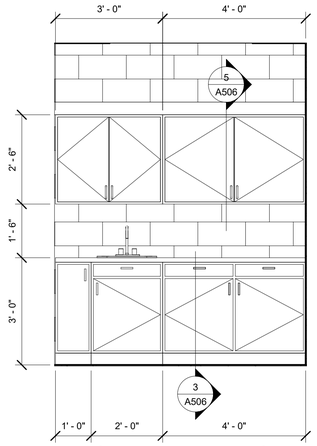


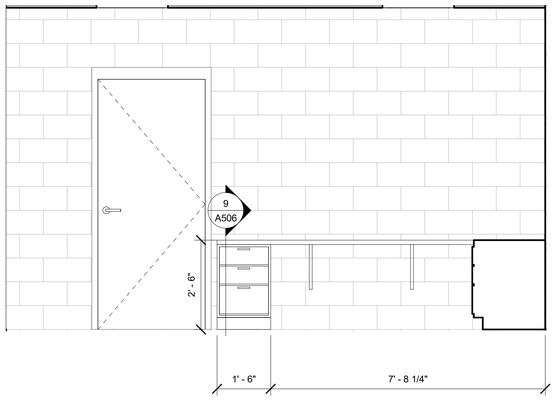
1 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



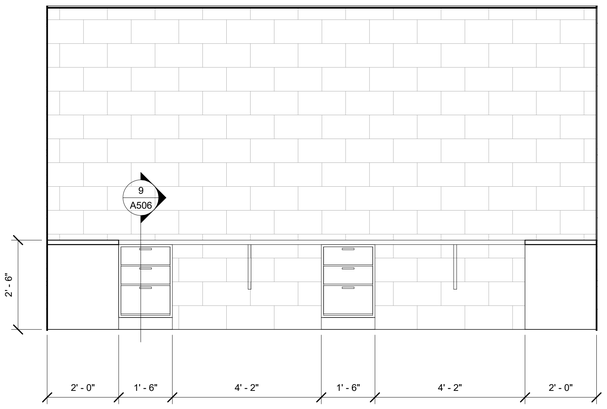
2 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



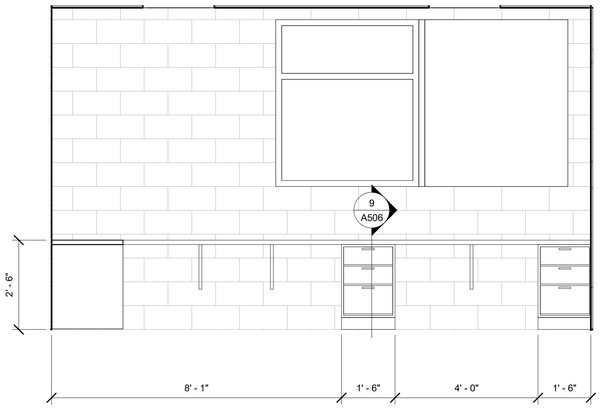
3 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



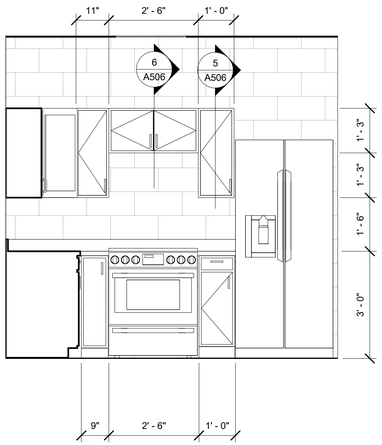
4 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



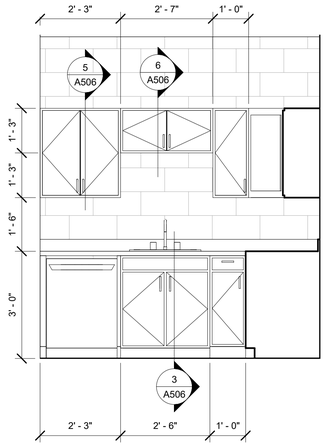
5 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



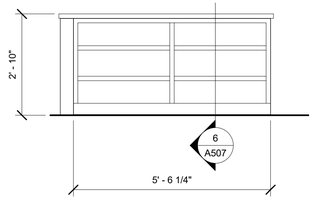
6 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



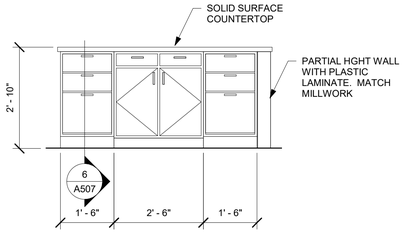
7 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



8 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



9 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"



10 MILLWORK ELEVATION
SCALE: 1/2" = 1'-0"

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INTERIOR
ELEVATIONS

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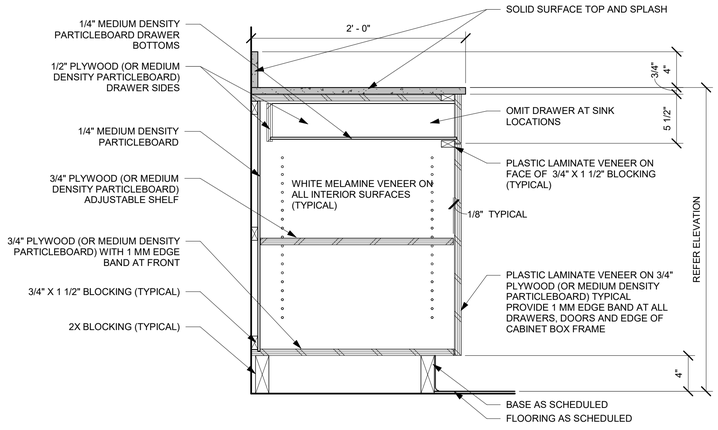
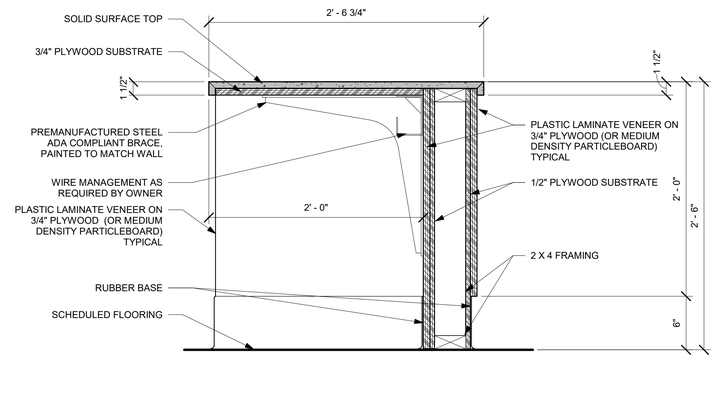
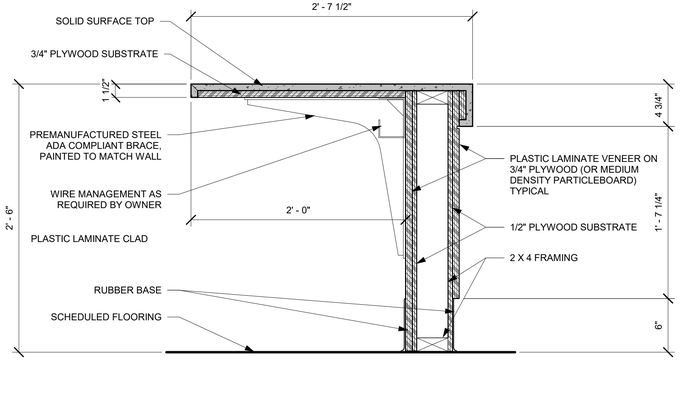


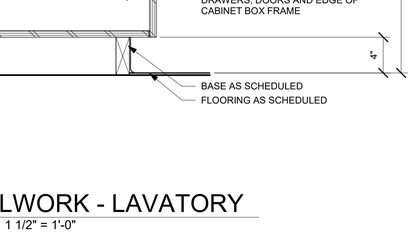
3 MILLWORK - DRAWER AND DOOR
SCALE: 1 1/2" = 1'-0"



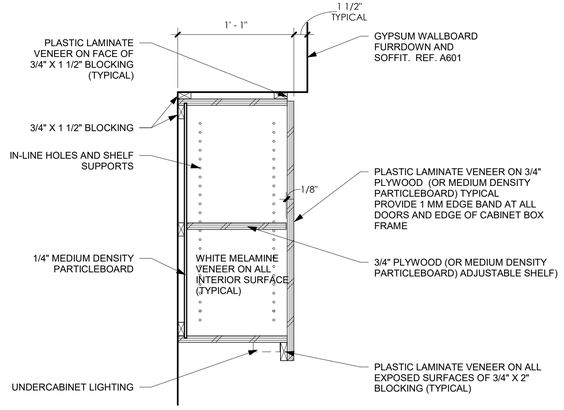
2 MILLWORK - LOW DESK
SCALE: 1 1/2" = 1'-0"



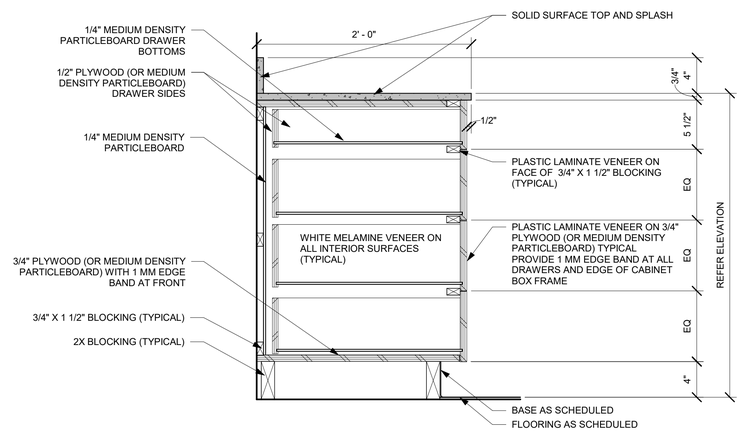
1 MILLWORK - HIGH DESK
SCALE: 1 1/2" = 1'-0"



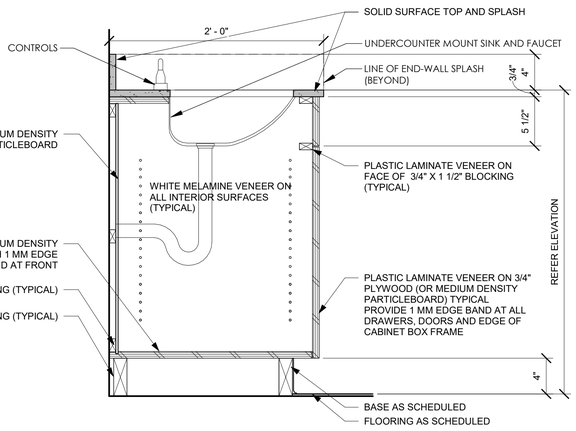
6 MILLWORK - SHORT UPPERS
SCALE: 1 1/2" = 1'-0"



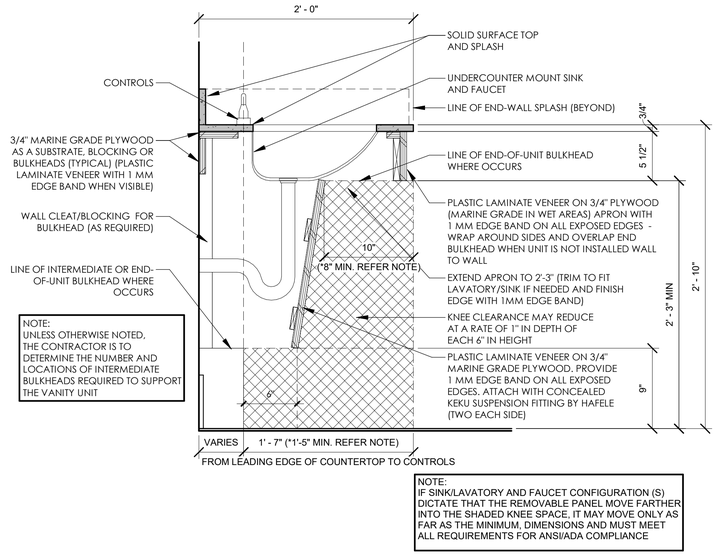
5 MILLWORK - TALL UPPERS
SCALE: 1 1/2" = 1'-0"



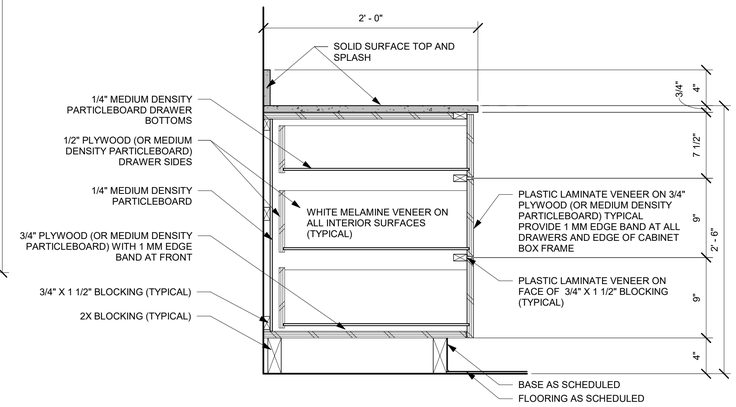
4 MILLWORK - 4 DRAWERS
SCALE: 1 1/2" = 1'-0"



8 MILLWORK - LAVATORY
SCALE: 1 1/2" = 1'-0"



7 MILLWORK - ADA LAVATORY
SCALE: 1 1/2" = 1'-0"



9 MILLWORK - 3 DRAWERS
SCALE: 1 1/2" = 1'-0"

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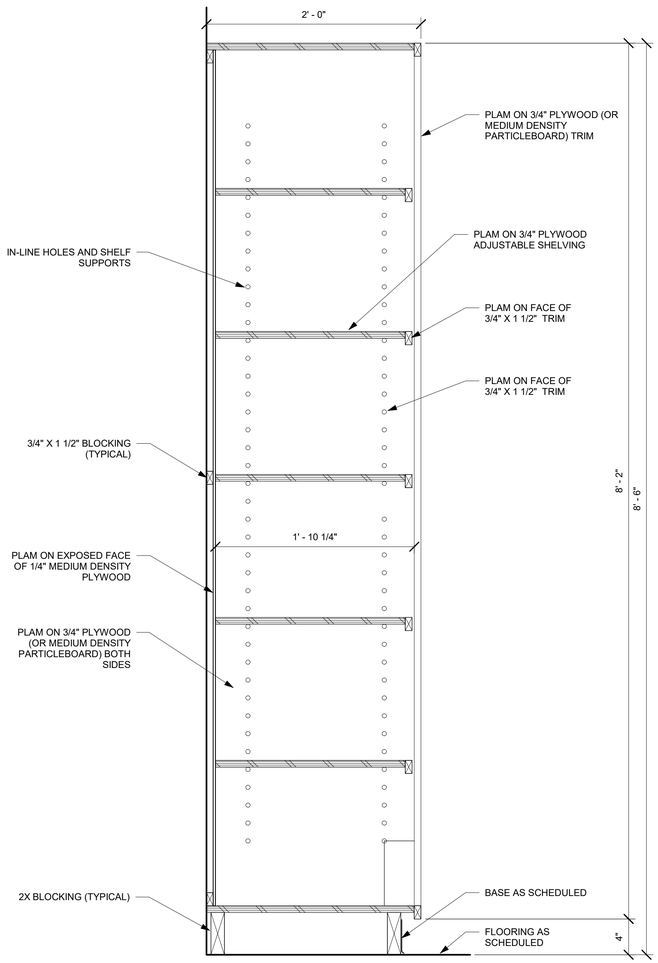
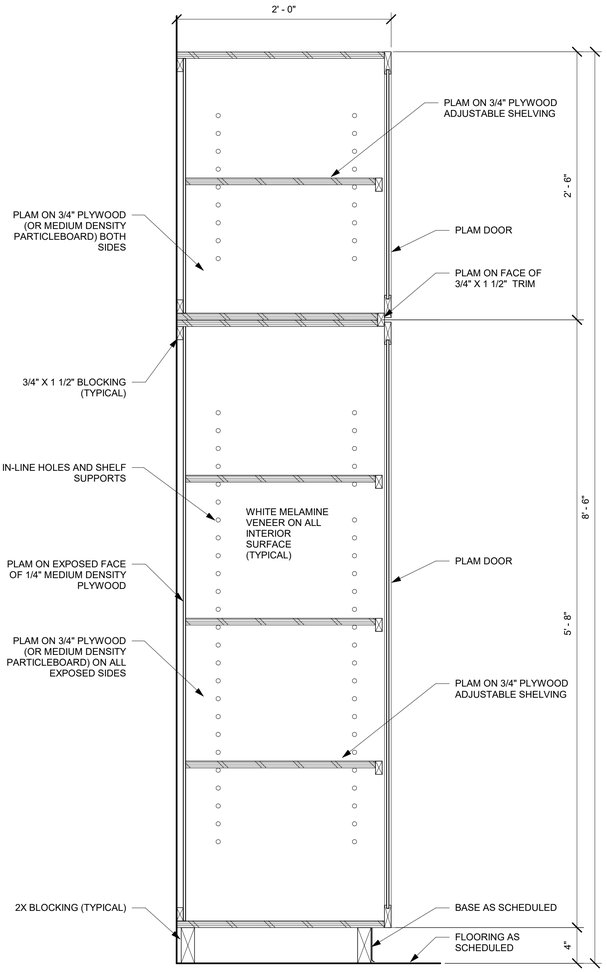
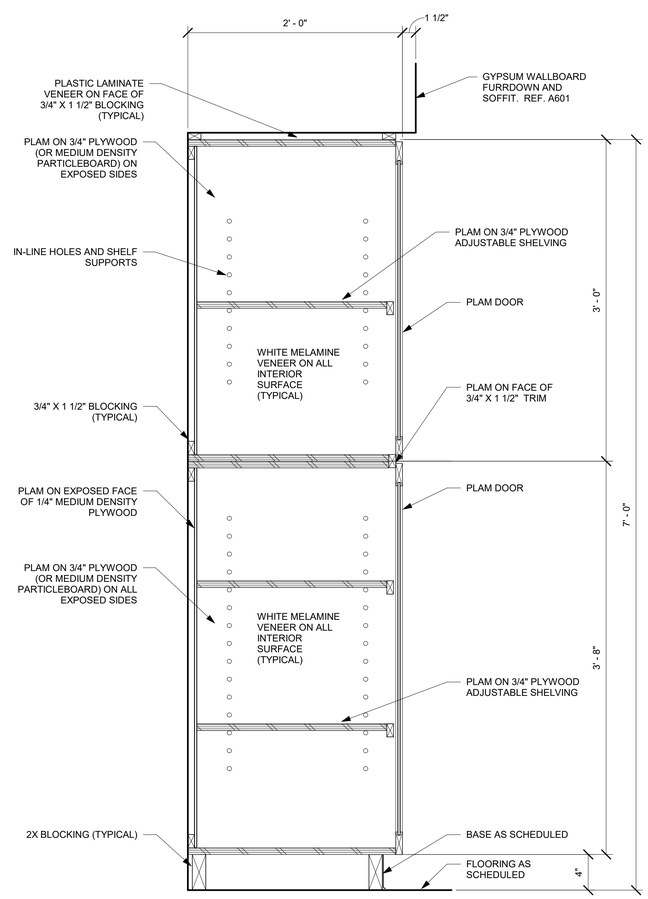


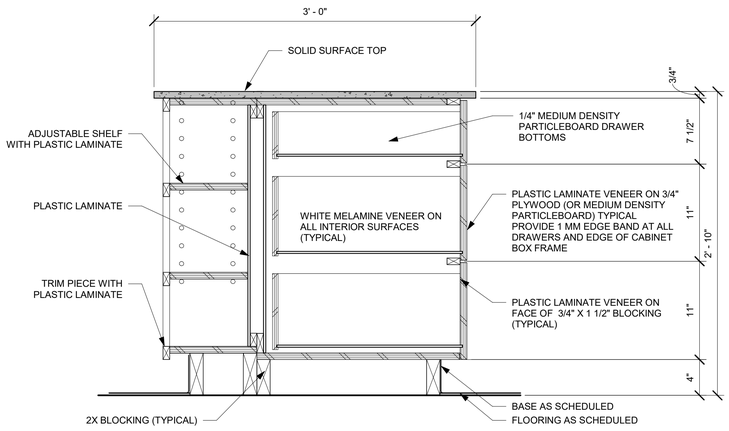
1 MILLWORK - SHELVING
SCALE: 1 1/2" = 1'-0"



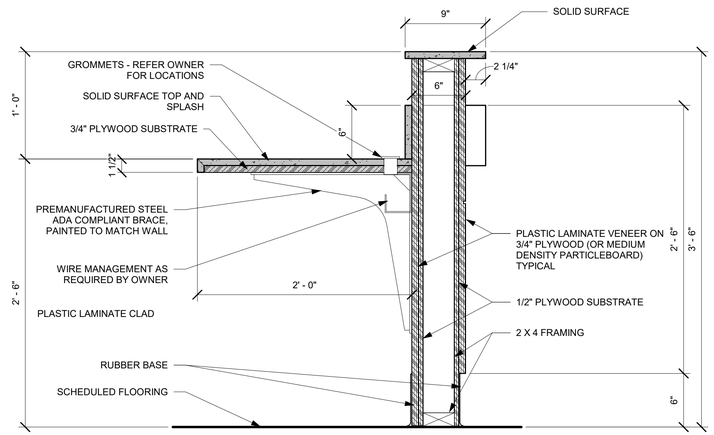
2 MILLWORK - STORAGE TALL
SCALE: 1 1/2" = 1'-0"



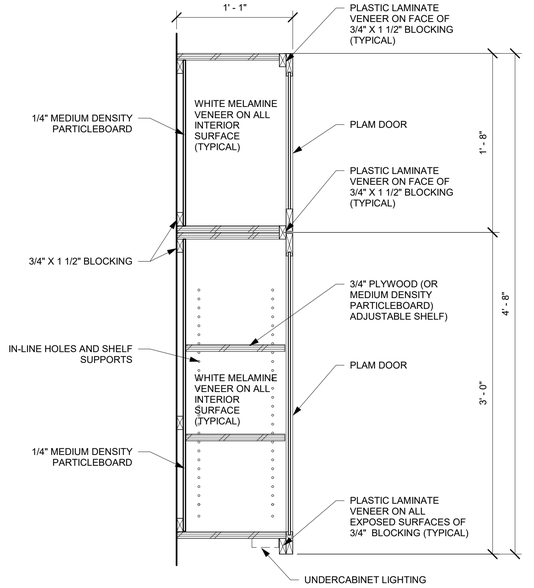
3 MILLWORK - STORAGE
SCALE: 1 1/2" = 1'-0"



6 MILLWORK - ADOPTION ISLAND
SCALE: 1 1/2" = 1'-0"



5 MILLWORK - HIGH DESK 2
SCALE: 1 1/2" = 1'-0"



4 MILLWORK - UPPERS
SCALE: 1 1/2" = 1'-0"

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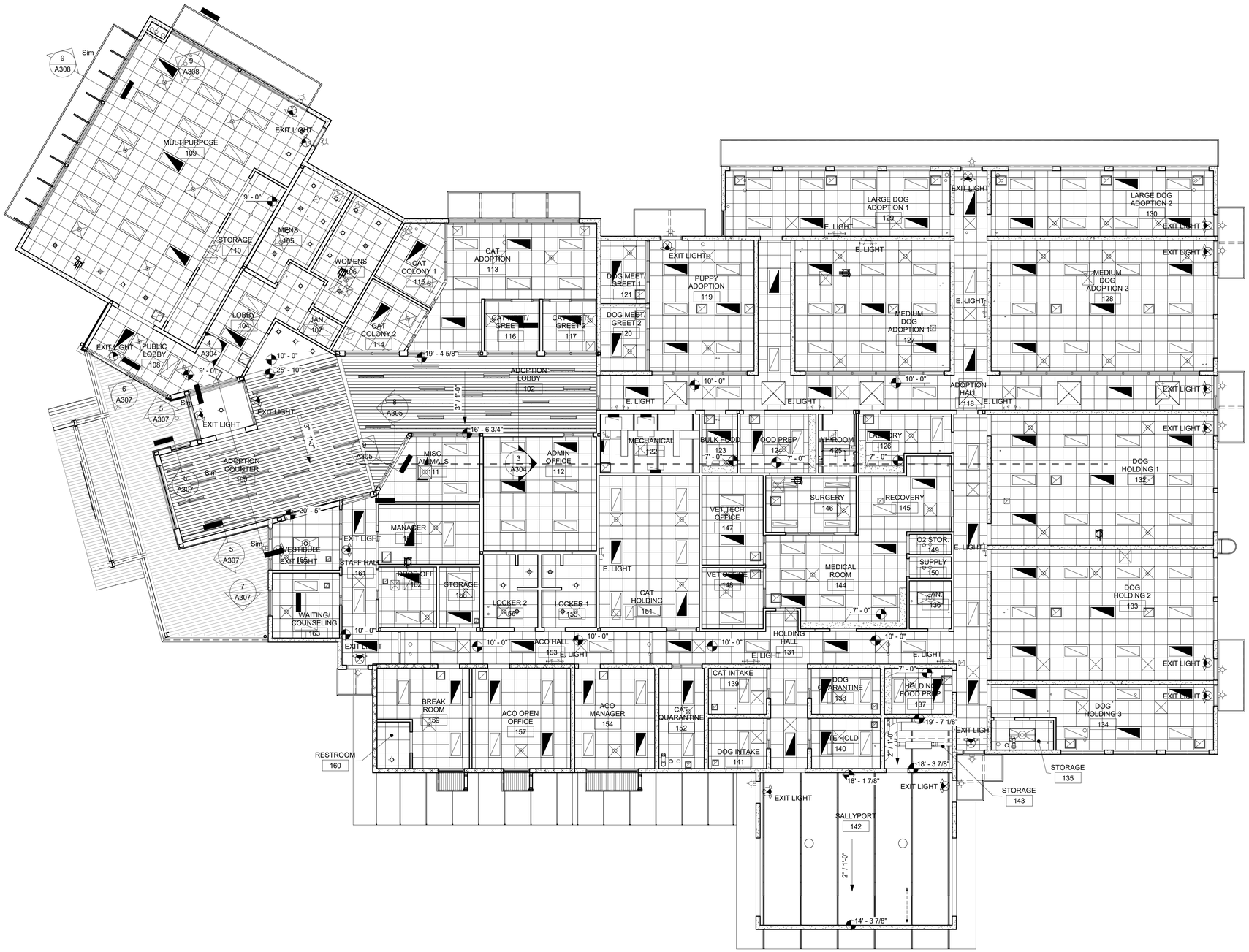

1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
	1' x 2' HANGING LIGHTING FIXTURE
	2' x 4' LIGHTING FIXTURE
	6" RECESSED LIGHTING FIXTURE
	0'- 4" x 4' LIGHTING FIXTURE
	4' x 4' ALUMINUM SKYLIGHT
	2' x 2' RETURN VENT
	2' x 2' SUPPLY VENT
	6" x 4' SLOT SUPPLY VENT
	WOOD BAFFLE CEILING
	2' x 2' ACOUSTIC CEILING TILE. SEE FINISH SCHEDULE FOR TYPES

NOTE: ALL CEILINGS ARE AT 9' - 0" UNLESS NOTED OTHERWISE

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SHEET TITLE
REFLECTED CEILING PLAN

SHEET NUMBER
A601

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2. THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
11. PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NOT LIMITED TO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPMENT SHALL STATE THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FOR THE PRIME CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL WALK THROUGH OF THE PROJECT.
12. PROVIDE 2 HOURS OF OWNER TRAINING FOR THE INSTALLED EQUIPMENT. TRAINING SHALL BE HELD ONLY AFTER ALL OF THE EQUIPMENT IS INSTALLED AND PROPER OPERATION IS VERIFIED.
13. CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PERFORMANCE INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS OF ALL EQUIPMENT GREATER THAN 1/3 H.P. WATER BALANCE MEASUREMENTS OF EACH COIL AND PUMP. AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR HANDLING UNIT SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALANCE SHALL BE WITHIN 10% OF DESIGN CONDITIONS. THE REPORT CERTIFICATION SHALL BE AS FOLLOWS:
    I (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (xx/xx/xx).
14. DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 AND SMACNA HVAC AIR DUCT LEAKAGE MANUAL 2012 FOR THE PRESSURE AND SEAL CLASS LISTED IN THE PROJECT DUCTWORK/INSULATION SCHEDULE.
15. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
16. SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK. DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
17. PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
18. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
19. ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
20. DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
21. MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
22. EXHAUST FLUE PIPE AND FITTINGS MATERIAL SHALL BE 24 GA AL 294C HEAT FAB CHIMNEY AND FLUE CONNECTIONS.
23. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
24. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
25. MECHANICAL CONTRACTOR TO INSTALL ON THE BOILERS WATER LINE FLEX CONNECTORS, MUFFLERS AND VIBRATION PADS. FLEX CONNECTORS, MUFFLERS AND VIBRATION ARE PADS PROVIDED BY THE BOILER MANUFACTURER.
26. MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
27. MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
28. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AND ENGINEER. ALL CHANGES IN PIPING AND DUCTWORK ARRANGEMENTS SHALL BE NOTED ON THE RECORD DRAWINGS.

MECHANICAL HVAC LEGEND

- EXHAUST AIR DUCT (DOWN)
- EXHAUST AIR DUCT (UP)
- RETURN AIR DUCT (DOWN)
- RETURN AIR DUCT (UP)
- OUTSIDE OR SUPPLY AIR DUCT (UP)
- OUTSIDE OR SUPPLY AIR DUCT (DOWN)
- 24x12 DUCT SIZE
- NEW DUCTWORK
- FLEX DUCT
- EXISTING DUCTWORK
- DEMOLITION LINETYPE
- SUPPLY AIR CEILING DIFFUSER
- CEILING DIFFUSER W/BLANKOFF
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE

DIFFUSER, GRILLE, AND REGISTER CALL-OUTS

CALL-OUT CFM OR CALL-OUT CFM

- MANUAL BALANCING DAMPER
- P — PIPE PENETRATION THROUGH FIRE RATED WALL
- F — FIRE DAMPER (X=F) SMOKE DAMPER (X=S) FIRE/SMOKE DAMPER (X=C)
- M — MOTORIZED DAMPER
- SCHEDULED EQUIPMENT TAG
- T — THERMOSTAT
- H — HUMIDISTAT
- S — REMOTE SENSOR
- DUCT SMOKE DETECTOR
- NEW TO EXISTING

ACC	AIR COOLED CHILLER
AD	ACCESS DOOR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
B	BOILER
BDD	BACK DRAFT DAMPER
BT	BUFFER TANK
CD	CEILING DIFFUSER
CR	CEILING REGISTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ERV	ENERGY RECOVERY VENTILATOR
ET	DIAPHRAGM EXPANSION TANK
FD	FIRE DAMPER
H	HUMIDIFIER
HX	HEAT EXCHANGER
L	LOUVER
MD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OED	OPEN END DUCT
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN AIR GRILLE
RH	HOT WATER RE-HEAT
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAT	SOUND ATTENUATORS
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
TG	TRANSFER GRILLE
UH	UNIT HEATER

ABBREVIATIONS

A	AMP
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLER UNIT
AI	ANALOG INPUT
ALT	ALTERNATE
ANNC	ANNUNCIATOR
AO	ANALOG OUTPUT
APPRX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BLDG	BUILDING
BI	BLACK IRON
BOD	BOTTOM OF DUCTWORK
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BSMT	BASEMENT
BTUH	BRITISH THERMAL UNIT PER HOUR
BTWN	BETWEEN
C	CENTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CI	CAST IRON
CIRC	CIRCUIT
CL	CENTERLINE
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
CR	CEILING REGISTER
CW	CHILLED/COLD WATER
CWR	COLD WATER RETURN
CWS	COLD WATER SUPPLY
DB	DRY BULB
DEG	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DI	DIGITAL INPUT
DIA OR Ø	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DIGITAL OUTPUT
DW	DEIONIZED WATER
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECM	ELECTRONIC CONTROL MODULE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ELT	ENTERING LIQUID TEMPERATURE
EQ	EQUAL
EQUIP	EQUIPMENT
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATE OR ESTIMATED
ET	DIAPHRAGM EXPANSION TANK
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F&T	FLOAT AND THERMOSTATIC
FA	FRESH AIR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FOOT (FEET)
FURN	FURNACE
GA	GAUGE/GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GYP	GYPSUM
HB	HOSE BIB
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
I/O	INPUT/OUTPUT
IA	INSTRUMENT AIR
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
J-BOX	JUNCTION BOX
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LLT	LEAVING LIQUID TEMPERATURE
LOC	LOCATION
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE STEAM
LV	LOW VOLTAGE
LWT	LEAVING WATER TEMPERATURE
MA	MAKE-UP AIR OR MIXED AIR
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MFR	MANUFACTURER
NC	NURSE CALL
NFC	NOT FOR CONSTRUCTION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OED	OPEN END DUCT
OPNG	OPENING
OPP	OPPOSITE
P	PUMP
PC	PLUMBING CONTRACTOR
PERP	PERPENDICULAR
PLBG	PLUMBING
PNL	PANEL
PPH	POUNDS PER HOUR
PRES	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
REV	REVERSE OR REVISION
RG	RETURN AIR GRILLE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAN	SANITARY
SCH	SCHEDULE
SECT	SECTION
SEP	SEPARATOR
SF	SQUARE FEET
SG	SUPPLY GRILLE
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STM	STEAM
T&B	TEST AND BALANCE OR TOP AND BOTTOM
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TEMP	TEMPERATURE OR TEMPORARY
TG	TRANSFER GRILLE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAR	VARIABLE OR VARIES
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VS	VENT STACK
VTR	VENT THRU ROOF
W/	WITH
W/IN	WITHIN
W/O	WITH OUT
WB	WET BULB
WC	WATER COLUMN (INCHES OF)
WCO	WALL CLEANOUT
WG	WATER GAUGE
WOG	WATER, OIL, GAS
WP	WEATHER PROOF
WP	WORKING PRESSURE
WT	WEIGHT

MECHANICAL SHEET INDEX

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

MOORE ANIMAL SHELTER
1316 SE 34TH STREET.
MOORE, OK 73160

LICENSED PROFESSIONAL ENGINEER
William Lewis Davis
29300
06/08/22
OKLAHOMA

SEAL

Barrett L. Williamson
ARCHITECTS
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- Master Planning
- Interior Design

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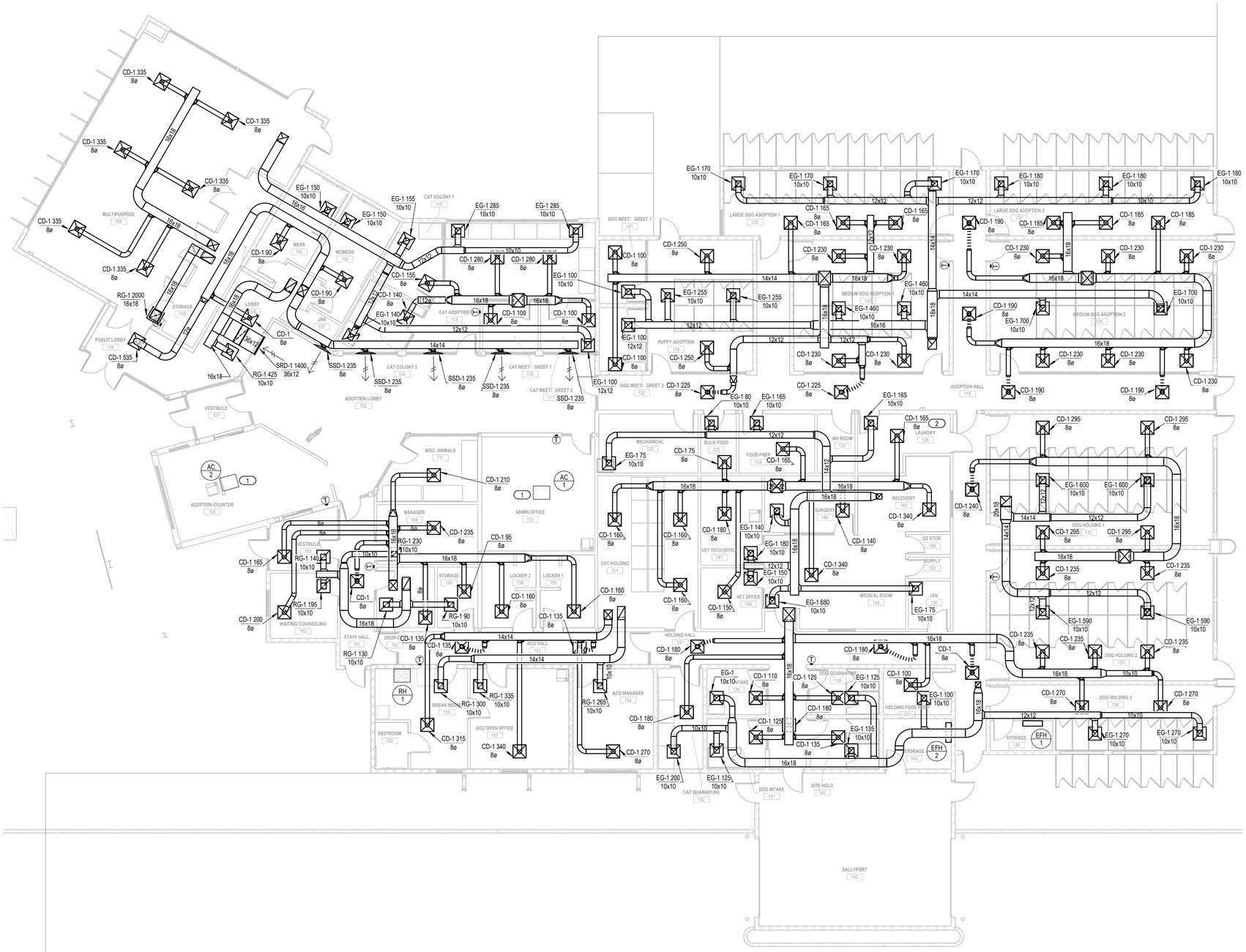
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/7/2022
REVISION DATES

SHEET TITLE
MECHANICAL NOTES, LEGENDS & ABBREVIATIONS
SHEET NUMBER
M001



1 MECHANICAL PLAN

1/8" = 1'-0"

GENERAL NOTES

1. MAINTAIN A MINIMUM 10'-0" BETWEEN ALL OUTSIDE AIR INTAKES AND ANY EXHAUST OPENINGS.
2. MAINTAIN A MINUMUM 10'-0" BETWEEN ANY MECHANICAL ROOF EQUIPMENT AND ROOF EDGE WHERE PARAPET DOES NOT EXCEED 42".
3. ROUTE ALL DOAS/RTU CONDENSATE TO NEAREAST ROOF DRAIN WITH 1" PVC. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
4. COORDINATE ALL DUCT PENETRATIONS THROUGH CMU WALLS WITH GC. MULTIPLE WALLS ARE INSTALLED TO DECK. COORDINATE WITH ARCHITECTURAL PLANS. PROVIDE FIRESTOPPING AND FIRE DAMPERS AS NOTED.

KEYED NOTES

1. PROVIDE 6" ROUND UP TO ROOF. TERMINATE WITH GREENHECK GSRI OR EQUAL. PROVIDE BALANCING DAMPER AND LOW VOLTAGE MOTORZIED DAMPER IN DUCT. CONNECT TO SIDE OF CASSETTE FOR VENTILATION. BALANCE TO 40CFM.
2. PROVIDE 6" DRYER DUCT UP TO ROOF. TERMINATE WITH GREENHECK GSRI OR EQUAL. COORDINATE EXACT DRYER LOCATION WITH OWNER/ARCHITECT.

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SHEET TITLE
MECHANICAL PLAN

SHEET NUMBER
M101

SALASO'BRIEN
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NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

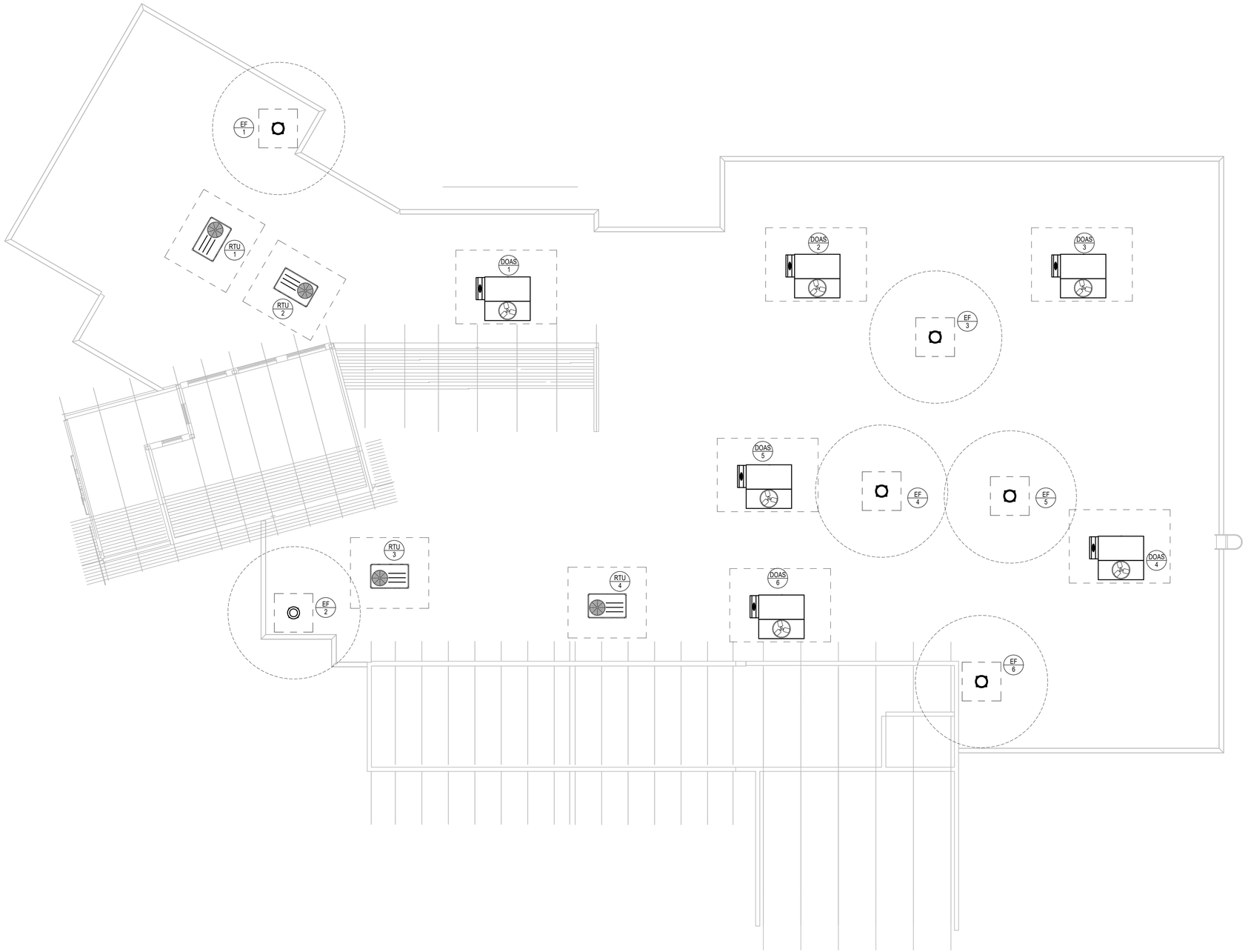
GENERAL NOTES

1. MAINTAIN A MINIMUM 10'-0" BETWEEN ALL OUTSIDE AIR INTAKES AND ANY EXHAUST OPENINGS.

2. MAINTAIN A MINUMUM 10'-0" BETWEEN ANY MECHANICAL ROOF EQUIPMENT AND ROOF EDGE WHERE PARAPET DOES NOT EXCEED 42".

3. ROUTE ALL DOAS/RTU CONDENSATE TO NEAREAST ROOF DRAIN WITH 1" PVC. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.

4. COORDINATE ALL DUCT PENETRATIONS THROUGH CMU WALLS WITH GC. MULTIPLE WALLS ARE INSTALLED TO DECK. COORDINATE WITH ARCHITECTURAL PLANS. PROVIDE FIRESTOPPING AND FIRE DAMPERS AS NOTED.



1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

SALASO'BRIEN
expect a difference
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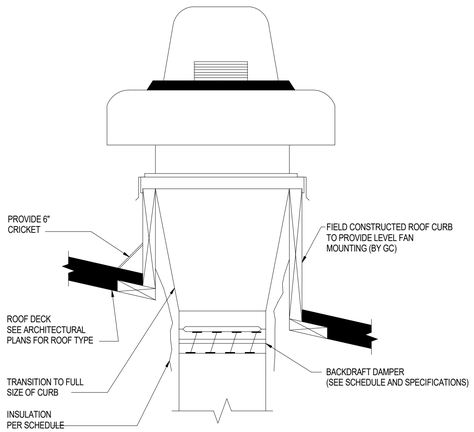
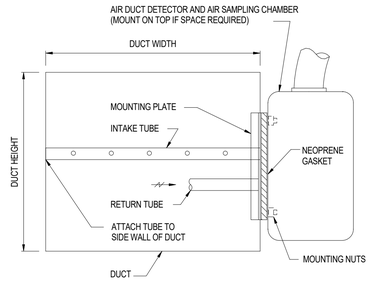
SHEET TITLE
MECHANICAL ROOF PLAN

SHEET NUMBER
M102

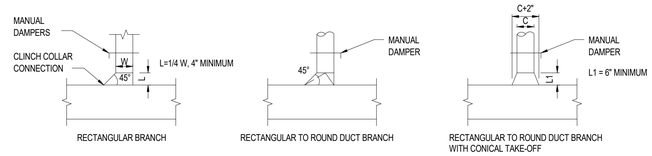


3 EXHAUST FAN DETAIL
NOT TO SCALE



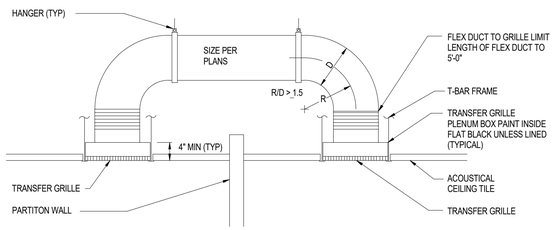
NOTES:
1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. THE TUBE SHALL BE INSTALLED PARALLEL TO LONG DIMENSION OF DUCT.
5. PRODUCT SHALL BE UL268A LISTED.
6. EC SHALL TEST ACCORDING TO UL AND CODES IN THE PRESENCE OF CODE AUTHORITY.

2 SMOKE DETECTOR MOUNTING DETAIL
NOT TO SCALE

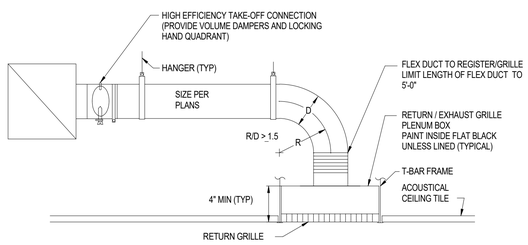


NOTE:
ALL DUCTWORK TO BE CONSTRUCTED TO MEET S.M.A.C.N.A. STANDARDS

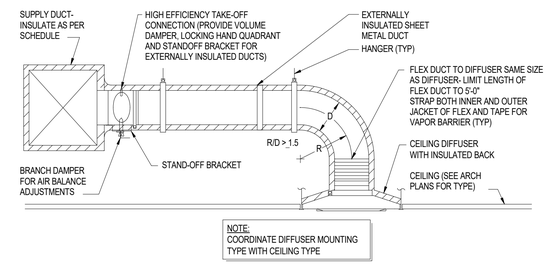
1 TYPICAL DUCTWORK DETAILS
NOT TO SCALE



6 TRANSFER GRILLE DETAIL
NOT TO SCALE

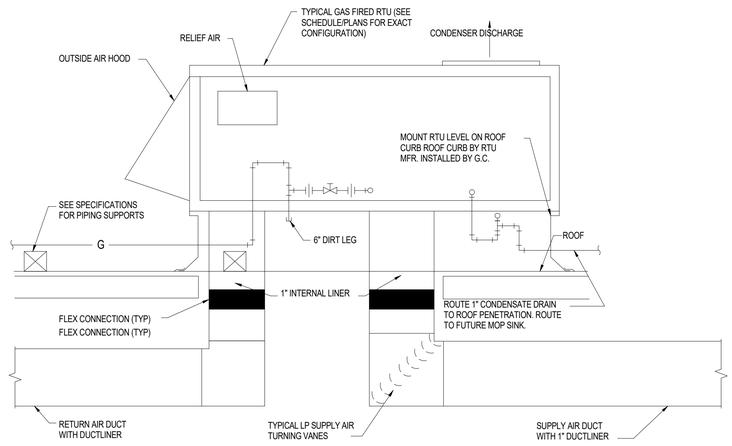


5 RETURN / EXHAUST AIR GRILLE PLENUM BOX
NOT TO SCALE

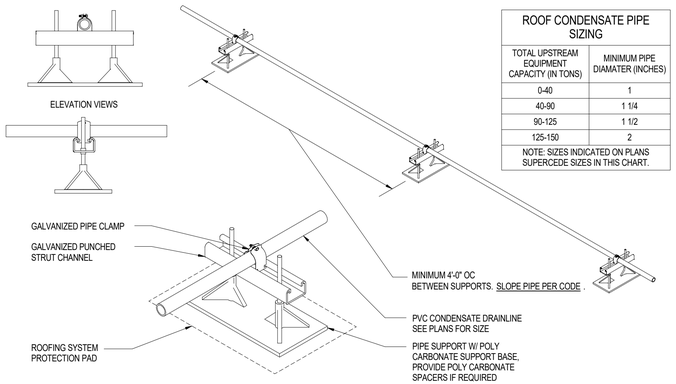


NOTE:
COORDINATE DIFFUSER MOUNTING TYPE WITH CEILING TYPE

4 CEILING DIFFUSER DETAIL
NOT TO SCALE



8 TYPICAL ROOF TOP UNIT DETAIL
NOT SCALE



ROOF CONDENSATE PIPE SIZING	
TOTAL UPSTREAM EQUIPMENT CAPACITY (IN TONS)	MINIMUM PIPE DIAMATER (INCHES)
0-40	1
40-90	1 1/4
90-125	1 1/2
125-150	2
NOTE: SIZES INDICATED ON PLANS SUPERCEDE SIZES IN THIS CHART.	

7 ROOF CONDENSATE SUPPORT DETAIL
NOT TO SCALE

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SHEET TITLE
MECHANICAL DETAILS SHEET

SHEET NUMBER
M201

PACKAGED ROOFTOP GAS/ELECTRIC UNIT SCHEDULE

RTU #	LOCATION	TOTAL CFM	INPUT MBH	OUTPUT MBH	COOLING NOMINAL TONS	EER	MIN F.A. CFM	ELEC. V / HZ / PH	MCA	MOP	WEIGHT LBS	HEATING COIL: EAT (°F)	LAT (°F)	HEAT TYPE	HEATING CAPACITY (MBH)	HEATING STAGES/ TURNDOWN	TEMP RISE (°F)	MANUFACTURER & MODEL NO.	NOTES
1	ROOF	2000	120	96	5	>11	CO2	460/3	15	20	949	-	-	-	-	-	-	TRANE YC060	ALL
2	ROOF	2400	120	96	6	>11	CO2	460/3	20	25	966	-	-	-	-	-	-	TRANE YC072	ALL
3	ROOF	1600	100	80	4	>11	CO2	460/3	14	20	848	-	-	-	-	-	-	TRANE YC048	ALL
4	ROOF	1200	80	64	3	>11	CO2	460/3	12	15	690	-	-	-	-	-	-	TRANE YC036	ALL

NOTES:
1. PROVIDE CONDENSER COIL HAIL GUARD.
2. PROVIDE FACTORY-INSTALLED UNIT DISCONNECT SWITCH.
3. PROVIDE FACTORY-INSTALLED RETURN DUCT SMOKE DETECTOR W / REMOTE TEST STATION TO BE LOCATED IN OCCUPIED SPACE. INSTALLATION OF REMOTE TEST STATION & CONNECTION TO FIRE ALARM SYSTEM BY EC.
4. PROVIDE FACTORY-INSTALLED 120V GFCI CONVENIENCE OUTLET. GFCI POWERED FROM UNIT.
5. PROVIDE ANTI-SHORT CYCLE TIMER AND LOW AMBIENT CONTROLS AND PHASE MONITOR.
6. PROVIDE MINIMUM 14" FACTORY ROOF CURB.
7. PROVIDE HINGED AND TOOL-LESS ACCESS DOORS.
8. PROVIDE FULL ENTHALPY ECONOMIZER WITH POWERED EXHAUST WITH ULTRA LOW LEAK DAMPERS.
9. PROVIDE FACTORY BACNET CARD AND WIRELESS INTERFACE FOR INTEGRATION INTO CONTROLS SYSTEM.

DEDICATED OUTSIDE AIR UNIT - GAS HEAT

DOAS #	LOCATION	TOTAL CFM	INPUT MBH	OUTPUT MBH	COOLING SENSIBLE BTUH	COOLING LATENT BTUH	EER	MIN F.A. CFM	ELEC. V / HZ / PH	MCA	MOP	WEIGHT LBS	GAS HEAT: EAT (°F)	LAT (°F)	HEAT TYPE	HEATING CAPACITY (MBH)	HEATING STAGES/ TURNDOWN	TEMP RISE (°F)	MANUFACTURER & MODEL NO.	NOTES
1	ROOF	1065	100	81	51.09	17.14	>11	100%	460/3	16	25	908	10	80	GAS	81	1	91	AAON RQ 006	ALL
2	ROOF	2800	293	234	135.7	47.04	>11	100%	460/3	39	50	1943	10	80	GAS	234	1	91	AAON RN 015	ALL
3	ROOF	2400	293	234	113.9	37.4	>11	100%	460/3	34	40	1918	10	80	GAS	234	1	91	AAON RN 013	ALL
4	ROOF	2100	250	156	195.0	29.0	>11	100%	460/3	23	30	1751	10	80	GAS	156	1	91	AAON RN 011	ALL
5	ROOF	2800	293	234	135.7	47.04	>11	100%	460/3	39	50	1943	10	80	GAS	234	1	91	AAON RN 015	ALL
6	ROOF	2100	250	156	195.0	29.0	>11	100%	460/3	23	30	1751	10	80	GAS	156	1	91	AAON RN 011	ALL

NOTES:
1. PROVIDE CONDENSER COIL HAIL GUARD.
2. PROVIDE FACTORY-INSTALLED UNIT DISCONNECT SWITCH.
3. UNIT IS 100% OUTSIDE AIR. NO RETURN
4. PROVIDE FACTORY-INSTALLED 120V GFCI CONVENIENCE OUTLET. GFCI POWERED FROM UNIT.
5. PROVIDE ANTI-SHORT CYCLE TIMER AND LOW AMBIENT CONTROLS AND PHASE MONITOR.
6. PROVIDE MINIMUM 14" FACTORY ROOF CURB.
7. PROVIDE HINGED AND TOOL-LESS ACCESS DOORS.
8. PROVIDE FULL ENTHALPY ECONOMIZER WITH POWERED EXHAUST WITH ULTRA LOW LEAK DAMPERS.
9. PROVIDE FACTORY BACNET CARD AND WIRELESS INTERFACE FOR INTEGRATION INTO CONTROLS SYSTEM.

ELECTRIC FAN FORCED HEATER SCHEDULE

EFH #	LOCATION		WALL OR							MANUFACTURER	
1	STORAGE 135	100	WALL	2	SURFACE	9.6	1	INT STAT	1400	BERKO - FRC4020	1,2,4
2	STORAGE 143	100	WALL	2	SURFACE	9.6	1	INT STAT	1400	BERKO - FRC4020	1,2,4

NOTES:
1. PROVIDE INTERNAL THERMOSTAT.
2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT.
3. PROVIDE BUILT-IN DISCONNECT.
4. SURFACE MOUNTED UNIT. PROVIDE SURFACE MOUNTING KIT.
5. PROVIDE WALL MOUNTING BRACKET.

KITCHEN HOOD SCHEDULE

RH #	LOCATION	HOOD LENGTH	HOOD MATERIAL	CONNECTED TO	EXHAUST CFM	LIGHTS	MANUFACTURER & MODEL NO.	NOTES
1	KITCHEN	36"	STEEL	N/A	276	YES	DENLAR D1036-F-NFPA101	1-4

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. M.C. SHALL PROVIDE AND INSTALL HOOD.
2. INTEGRATED FIRE SUPPRESSION SYSTEM.
3. COORDINATE ELECTRICAL CONNECTION WITH E.C.
4. PROVIDE RECIRCULATING MODEL WITH CARBON FILTERS AND ANSUL SYSTEM.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
RG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-
RG-2	HEAVY DUTY SIDEWALL GRILLED, STATIONARY DEFLECTION VANES, 3/4" O.C. FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT	PRICE 90	ALUMINUM	COLOR BY ARCHITECT	-
EG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 90	ALUMINUM	WHITE	-
CD-1	24X24 SQUARE FACE, ROUND NECK, PLAQUE TYPE CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SPQ	STEEL	WHITE	-
CD-2	24X24 SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, PLAQUE FACE	PRICE SPD	ALUMINUM	WHITE	-
SG-1	DOUBLE DEFLECTION SIDEWALL GRILLE, ADJUSTABLE DEFLECTION VANES, 3/4" O.C. FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT	PRICE 540	ALUMINUM	COLOR BY ARCHITECT	-
TG-1	12X12 SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-

NOTES:
1. COORDINATE FINAL AIR DEVICE LOCATION AND COLOR WITH ARCHITECT.

EXHAUST FAN SCHEDULE

EF #	LOCATION	SYSTEM	CFM	SP (IN)	RPM	MOTOR H.P.	ELECTRICAL V / PH	BACK DRAFT DAMPER	DRIVE	FAN TYPE	INTERLOCK/CONTROL	MANUFACTURER & MODEL NO.	NOTES
1	ROOF	ANIMAL EXHAUST	1365	0.5	ROOF	NA	120/1	YES	DIRECT	ROOF	ALWAYS ON/TSTAT	GREENHECK CUE VG	ALL
2	ROOF	EE	75	0.5	ROOF	NA	120/1	YES	DIRECT	ROOF	ALWAYS ON/TSTAT	GREENHECK G VG	ALL
3	ROOF	ANIMAL EXHAUST	4090	0.5	ROOF	NA	120/1	YES	DIRECT	ROOF	ALWAYS ON/TSTAT	GREENHECK CUE VG	ALL
4	ROOF	ANIMAL EXHAUST	1710	0.5	ROOF	NA	120/1	YES	DIRECT	ROOF	ALWAYS ON/TSTAT	GREENHECK CUE VG	ALL
5	ROOF	ANIMAL EXHAUST	2320	0.5	ROOF	NA	120/1	YES	DIRECT	ROOF	ALWAYS ON/TSTAT	GREENHECK CUE VG	ALL
6	ROOF	ANIMAL EXHAUST	1345	0.5	ROOF	NA	120/1	YES	DIRECT	ROOF	ALWAYS ON/TSTAT	GREENHECK CUE VG	ALL

NOTES:
1. PROVIDE FAN SPEED CONTROLLER.
2. PROVIDE WITH VIBRATION ISOLATION KIT.
3. PROVIDE WITH DISCONNECT SWITCH.

MINI SPLIT HEAT PUMP SCHEDULE - INDOOR & OUTDOOR UNIT

MS #	OUTDOOR UNIT: NOMINAL TON	ELEC. CHAR	SEER	MCA	MOP	COMPRESSOR TYPE	MANUFACTURER & MODEL NUMBER	INDOOR UNIT: TYPE	CFM	CONDENSATE PUMP	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
1	2	208/1	17.0	18	25	INVERTER	MITSUBISHI PUZ-A24	CLG	635-775	YES	46	MITSUBISHI PLA-A24	ALL
2	2	208/1	17.0	18	25	INVERTER	MITSUBISHI PUZ-A24	CLG	635-775	YES	46	MITSUBISHI PLA-A24	ALL

NOTES:
1. MC IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT
2. PROVIDE DISCONNECT FOR INSTALLATION BY EC
3. INDOOR UNIT POWERED FROM OUTDOOR UNIT. EC RESPONSIBLE FOR INSTALLING ELECTRICAL CONNECTION BETWEEN UNITS. COORDINATE WITH EC
4. PROVIDE AND INSTALL CONDENSATE PUMP. ROUTE CONDENSATE TO NEAREST OPEN SITE.
5. PROVIDE CONDENSER COIL HAIL GUARD.

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MECHANICAL SCHEDULES PLAN

SHEET NUMBER
M301

LIGHT FIXTURE SCHEDULE

Type	Input Wattage	Lumens	CRI	Color Temperature	DESCRIPTION	MANUFACTURER	MODEL
A	33.00 W	4291	80	4000K CCT.	2X4 LED FLAT PANEL, 0-10V DIMMING.	COLUMBIA	CFP24-LSCS
AE	33.00 W	4291	80	4000K CCT.	2X4 LED FLAT PANEL, 0-10V DIMMING, 90 MIN BACK-UP BATTERY.	COLUMBIA	CFP24-LSCS-PLDIOM
B	38.00 W	4792	80	4000K CCT.	2X4 WET LISTED LED TROFFER, 0-10V DIMMING. TRIPLE GASKETED.	COLUMBIA	LJT24-40MLG-FA-A12125F-EDU-G3-WL
BE	38.00 W	4792	80	4000K CCT.	2X4 WET LISTED LED TROFFER, 0-10V DIMMING, TRIPLE GASKETED. 90 MIN BACK-UP BATTERY.	COLUMBIA	LJT24-40MLG-FA-A12125F-EDU-G3-WL-ELL14
C	20.00 W	2134	80	4000K CCT.	6" RECESSED LED DOWNLIGHT. 0-10V DIMMING. IC RATED. WET LOCATION LISTED.	PRESCOLITE	LBRP-M-LS-ML-CS9 / LBRP-6RD-T-D / LB-4R-F-J
CE	20.00 W	2134	80	4000K CCT.	6" RECESSED LED DOWNLIGHT. 0-10V DIMMING. IC RATED. WET LOCATION LISTED. 90 MIN BATTERY BACKUP	PRESCOLITE	LBRP-M-LS-ML-CS9 / LBRP-6RD-T-D / LB-4R-F-J / L10-DC-CEC
D	85.00 W	7985	90	4000K CCT.	1X4 SURGICAL ROOM TROFFER, 0-10V DIMMING.	KENALL	M4SEDI-14-76L-40K9-DCC-277-2F-2H-SYM
DE	85.00 W	7985	90	4000K CCT.	1X4 SURGICAL ROOM TROFFER, 0-10V DIMMING, 90 MIN BACK-UP B ATTERY.	KENALL	M4SEDI-14-76L-40K9-DCC-277-2F-2H-SYM-LEL
EX	5.00 W	0	N/A	N/A	LED EXIT SIGN, BRUSHED ALUMINUM FACE WITH RED LETTERS, UNIV MTD, FIELD SELECTABLE ARROWS, 90 MIN BACKUP BATTERY.	NICOR	EXL6-10-UNV-ALBK-R-SD
F1	16.40 W	2000	80	4000K CCT.	4' LINEAR DIRECT-INDIRECT SUSPENDED, D-4.1W/FT, ID-2.5W/FT, D-500LM/FT, ID-300LM/FT, 0-10VDIMMING.	PINNACLE	CDI-BW-840-CL840300-4'-ACXXST-U-FSD-1-0-S-IB
F1E	16.40 W	2000	80	4000K CCT.	4' LINEAR DIRECT-INDIRECT SUSPENDED, D-4.1W/FT, ID-2.5W/FT, D-500LM/FT, ID-300LM/FT, 0-10VDIMMING, 90 MIN BACK-UP BATTERY.	PINNACLE	CDI-BW-840-CL840300-4'-ACXXST-U-FSD-1-IRC-S-IB
F2	24.00 W	3000	80	4000K CCT.	4' LINEAR DIRECT-INDIRECT SUSPENDED, D-6W/FT, ID-2.5W/FT, D-750LM/FT, ID-300LM/FT, 0-10VDIMMING.	PINNACLE	CDI-BW-840HO-CL840300-4'-ACXXST-U-FSD-1-0-S-IB
F2E	24.00 W	3000	80	4000K CCT.	4' LINEAR DIRECT-INDIRECT SUSPENDED, D-6W/FT, ID-2.5W/FT, D-750LM/FT, ID-300LM/FT, 0-10VDIMMING, 90 MIN BACK-UP BATTERY.	PINNACLE	CDI-BW-840HO-CL840300-4'-ACXXST-U-FSD-1-IRC-S-IB
G	32.00 W	4420	80	4000K CCT.	4' LED STRIP FIXTURE. (GENERAL USE) MULTIPLE MOUNTING TYPES, 0-10V DIMMING.	COLUMBIA	MPS4-40ML-CPW-EDU
GE	32.00 W	4420	80	4000K CCT.	4' LED STRIP FIXTURE. (GENERAL USE) MULTIPLE MOUNTING TYPES. 0-10V DIMMING, 90 MIN BATTERY BACKUP.	COLUMBIA	MPS4-40ML-CPW-EDU-ELL14
HE	101.00 W	14444	70	4000K CCT.	15" DIAMETER HIGHBAY/DIE CAST ALUMINUM HSG, 0-10V DIMMING, 90 MIN BACK-UP BATTERY.	COLUMBIA	CRN-40LX-EDU
J	15.00 W	1000	80	4000K CCT.	2' LED VANITY FIXTURE. 0-10V DIMMING.	PINNACLE	EX3D-WHE-N-840VHO-2-WA-U-OL2-1-O-XX
K	38.00 W	5800	80	4000K CCT.	4' LINEAR LED STRIP FOR USE IN COVERED PARKING, MOUNTED TO STRUCTURE, 0-10V DIMMING. CONTROLLED WITH PHOTOCELL	COLUMBIA	CVT4-LS40
P2	135.00 W	18181	70	4000K CCT.	SITE LIGHTING FIXTURE/T3 OPTIC.	HUBBELL	RAR1-160L-135-4K7-3-UNV-ASQ-BLT / SSS-H-18-40-A-1-B3-BLT-7PR-TL
P3	135.00 W	17547	70	4000K CCT.	SITE LIGHTING FIXTURE/T4 WIDE OPTIC.	HUBBELL	RAR1-160L-135-4K7-4W-UNV-ASQ-BLT / SSS-H-18-40-A-1-B3-BLT-7PR-TL
W	21.00 W	2310	70	4000K CCT.	LED EXTERIOR WALL SCONCE / FORWARD THROW OPTIC, 90 MIN BACK-UP BATTERY.	HUBBELL	SG1-20-4K7-FT-UNV-XX-E

GENERAL NOTES:

EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

RECEPTACLE LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLEMTD. 6" ABOVE COUNTER OR HGT SHOWN
	DUPLEX RECEPTACLE, CEILING MOUNTED
	GFCI DUPLEX RECEPTACLE
	GFCI DUPLEX RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	GFCI DUPLEX RECEPTACLE - WEATHERPROOF (IN COVER USE)
FB	FLOOR BOX
J	JUNCTION BOX, AS NOTED
	QUADPLEX RECEPTACLE
	QUADPLEX RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	GFCI QUADPLEX RECEPTACLE
	GFCI QUADPLEX RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	SINGLE-PLEX RECEPTACLE

SWITCH LEGEND

SYMBOL	DESCRIPTION
$	20A, 120/277V SPST SWITCH
$a	20A, 120/277V LETTER INDICATES GROUP
$3	20A, 120/277V 3-WAY
$4	20A, 120/277V 4-WAY
$D	DIMMER SWITCH
$K	KEY OPERATED SWITCH
$OS	OCCUPANCY SENSOR SWITCH

OCCUPANCY SENSOR LEGEND

SYMBOL	DESCRIPTION
OS	MULTI-TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR CAPABLE OF DISABLING AUTO ADAPTING FEATURE. PROVIDE WITH RELAY/POWER PACKS AS REQUIRED PER PLAN. (LOW VOLTAGE)
PC	PHOTOCELL

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNICIATOR	MTD	MOUNTED
CC	CONTROLS CONTRACTOR	NIC	NOT IN CONTRACT
DF	DRINKING FOUNTAIN	OCC	OCCUPANCY
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EF	EXHAUST FAN	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	∅	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVRP	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	PANEL BOARD
	DISTRIBUTION PANEL BOARD
T	TRANSFORMER
	UTILITY METER
CB	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
P	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
3. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. WHERE NEW OR EXISTING WIRING FOR INTERIOR DATA OR POWER WILL BE EXPOSED, SURFACE MOUNTED RACEWAY EQUAL TO WIREMOLD SERIES 54OO SHALL BE USED. SURFACE BOXES SHALL MATCH SURFACE RACEWAY. ALL PARTS AND ACCESSORIES SHALL BE INSTALLED FOR A COMPLETE SYSTEM. WHERE BOTH DATA AND POWER WIRING SHARE THE SAME RACEWAY, POWER WIRING SHALL BE SEPARATED FROM DATA WIRING AS PER NEC.
5. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
6. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
7. UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
8. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL SHEET INDEX

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CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

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06-30-23

PROJECT NUMBER
M31114

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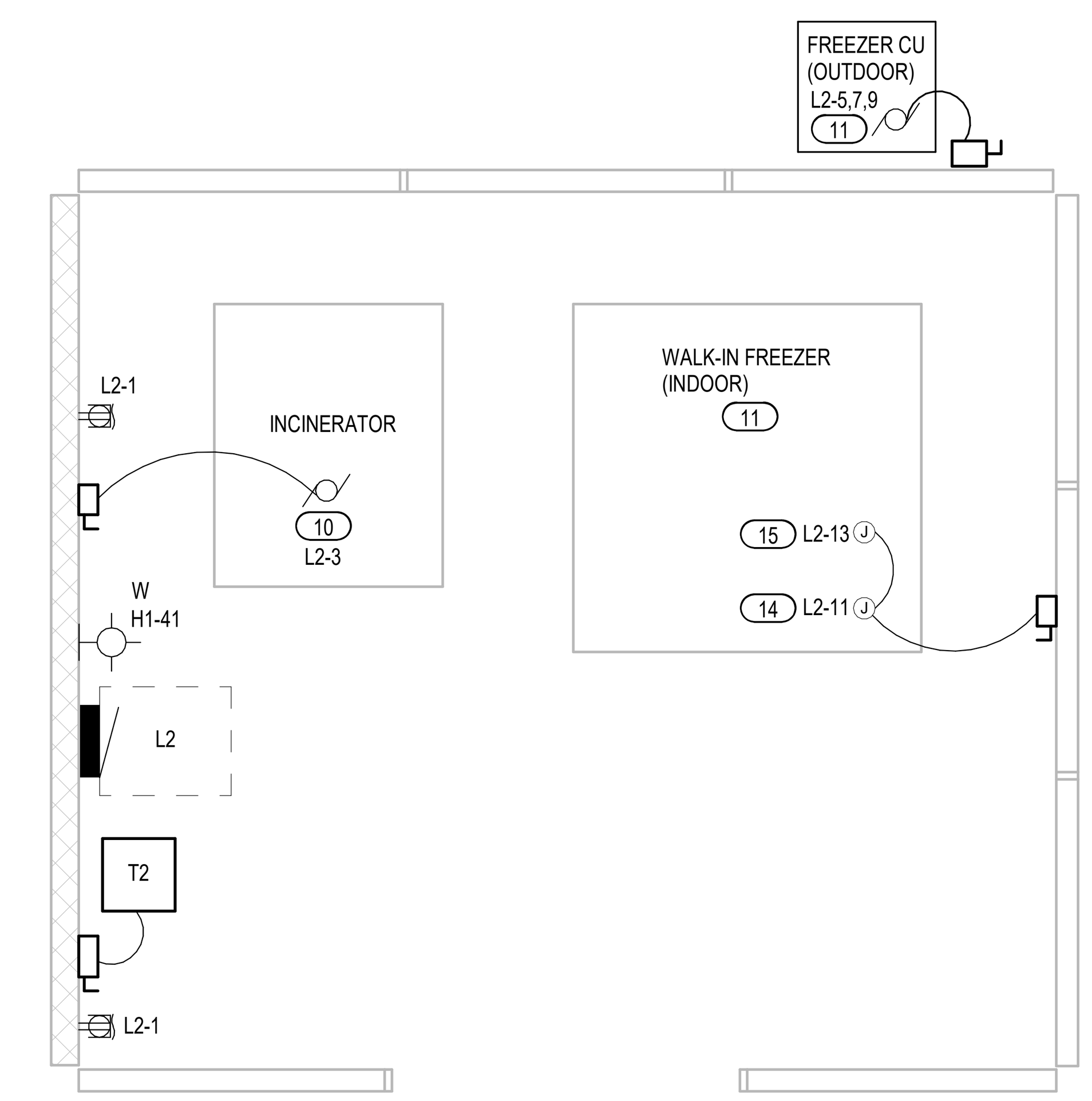
SHEET TITLE
ELECTRICAL TITLE SHEET

SHEET NUMBER
E000

1 **ELECTRICAL LIGHTING & POWER SITE PLAN**

1/16" = 1'-0"

NORTH



2 **ELECTRICAL INCINERATOR BLDG**

1/4" = 1'-0"

GENERAL NOTES

1. CONDUIT ROUTE SHOWN IS ONLY TO CONVEY DESIGN INTENT. EC SHALL DETERMINE FINAL ROUTING OF NEW CONDUIT AFTER FIELD VERIFYING EXISTING CONDITIONS AND COORDINATING WITH OTHER TRADES. SEE POWER PLAN, PANEL SCHEDULES, AND ONE LINE DIAGRAM, FOR ADDITIONAL INFORMATION.
2. PROVIDE ELECTRONIC TIMER WITH INTEGRAL ASTRONOMICAL TIME CLOCK AND PHOTO CELL INPUT. LOCATE PHOTO CELL WITH CLEAR VIEW OF NORTHERN SKY AND SHIELD FROM ARTIFICIAL LIGHT SOURCES. TIMER SHALL CONTROL EXTERIOR LIGHTING AND PARKING LOT LIGHTING.
3. PROVIDE CIRCUIT WITH #10 AWG WIRE.

KEYED NOTES

1. PROPOSED LOCATION FOR NEW UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH CIVIL, ARCHITECT AND UTILITY COMPANY PRIOR TO BEGINNING WORK. REFER TO SHEET 'E401' FOR ADDITIONAL INFORMATION.
2. PROPOSED LOCATION FOR BELOW GRADE ELECTRICAL UTILITY CONNECTION TO NEW TRANSFORMER. COORDINATE EXACT LOCATION WITH CIVIL, ARCHITECT, AND UTILITY COMPANY PRIOR TO BEGINNING WORK. REFER TO SHEET 'E401' FOR ADDITIONAL INFORMATION.
3. APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM, SHOWN FOR REFERENCE. REFER TO SHEETS 'E201' AND 'E401' FOR ADDITIONAL INFORMATION.
4. PROPOSED LOCATION FOR NEW GENERATOR. COORDINATE EXACT LOCATION WITH CIVIL, ARCHITECT, AND UTILITY COMPANY PRIOR TO BEGINNING WORK. REFER TO SHEET 'E401' FOR ADDTIONAL INFORMATION.
5. PROPOSED LOCATION FOR NEW AUTOMATIC TRANSFER SWITCH (ATS). COORDINATE EXACT LOCATION WITH CIVIL AND ARCHITECT PRIOR TO BEGINNING WORK. REFER TO SHEET 'E401' FOR ADDITIONAL INFORMATION.
6. GATE OPERATOR KEYPAD LOCATION. COORDINATE EXACT LOCATION WITH CIVIL, ARCHITECT, AND TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER AND TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
7. PROVIDE 277V CONNECTION WITH LOCAL DISCONNECT FOR EXTERIOR BUILDING MOUNTED LED SIGN. COORDINATE EXACT LOCATION WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT/OWNER AND MANUFACTURER ON EXACT CONNECTION REQUIREMENTS PRIOR TO BEGINNING WORK.
8. PROVIDE POWERED GATE CONNECTION INCUDING KEYPAD PEDESTALS AND DRIVE LOOPS FOR EXITS. COORDINATE EXACT LOCATION WITH CIVIL, ARCHITECT, AND TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER AND TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
9. PROVIDE CONDUIT FOR POWER AND LOW VOLTAGE CONNECTION AT GATE OPERATORS. COORDINATE THE EXACT ROUTE, SIZES, AND QUANTITIES WITH GATE MANUFATURER PRIOR TO ROUGH-IN.
10. PROVIDE 120V INCINERATOR CONNECTION. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER AND COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE 208V WALK-IN FREEZER CONNECTION. COORDINATE THE EXACT LOCATION WITH ARCHITECT/OWNER AND COORDINATE THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER PRIOR TO ROUGH-IN.
12. UTILITY POLE SHOWN FOR REFERENCE ONLY. REFER TO SHEET 'E401' FOR ADDITIONAL INFORMATION.
13. PROVIDE REMOTE 90 MIN BATTERY BACKUP FOR PARKING LOT FIXTURE. LOCATE BATTERY WITHIN THE MAIN ELECTRICAL ROOM.
14. PROVIDE 120V CONNECTION FOR WALK-IN FREEZER DOOR HEATER AND LIGHTS. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE ARCHITECT PRIOR TO ROUGH-IN.
15. PROVIDE 120V WALK-IN FREEZER HEAT TAPE CONNECTION. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFATURER AND THE ARCHITECT PRIOR TO ROUGH-IN.

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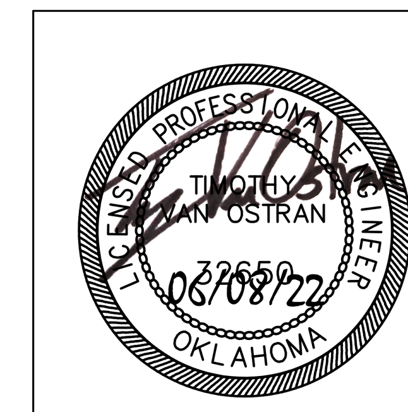

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M31114

ISSUE DATE
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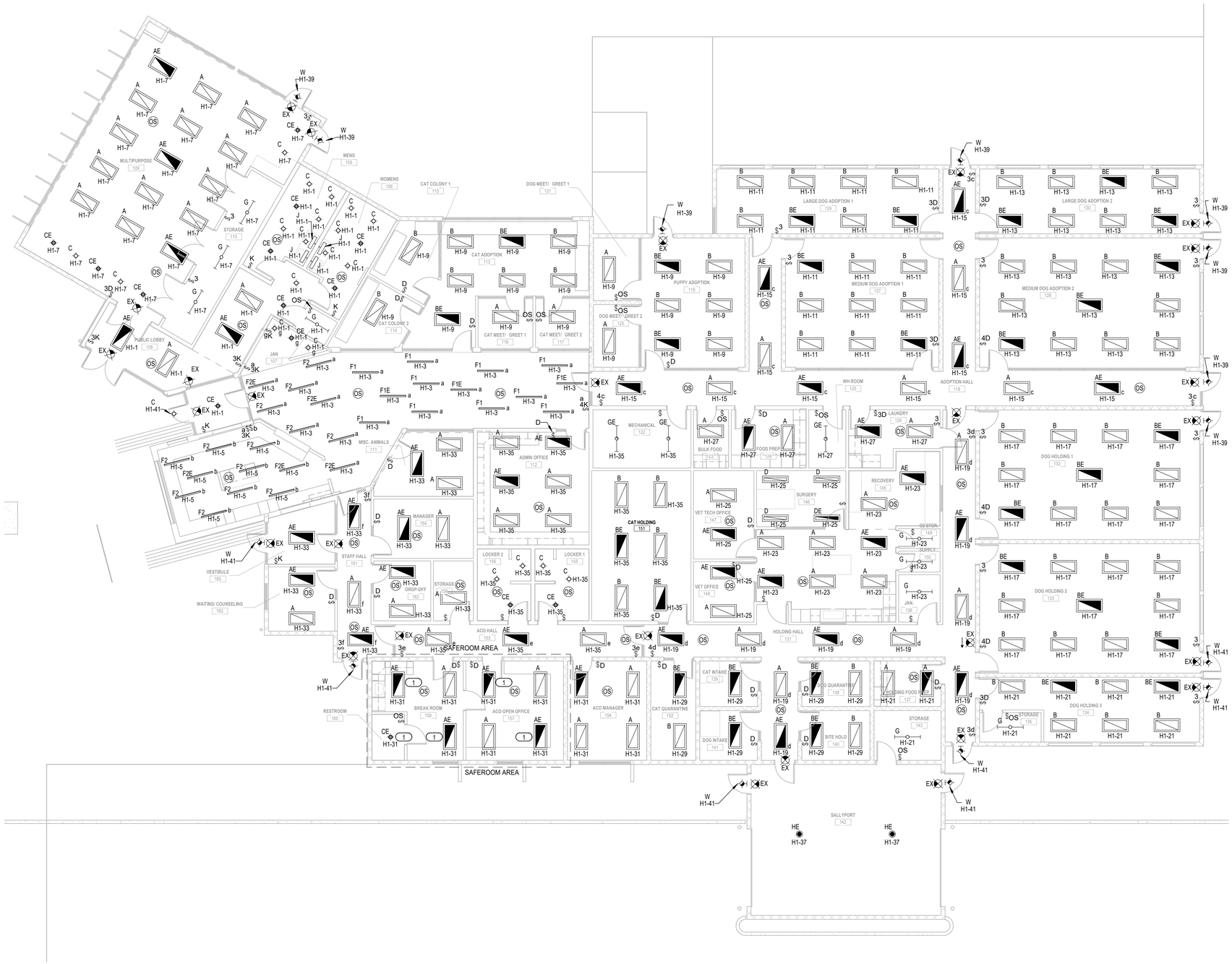
REVISION DATES

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET NUMBER
E001



1 ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

NORTH

SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

2. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.

3. PROVIDE ELECTRONIC TIMER WITH INTEGRAL ASTRONOMICAL TIME CLOCK AND PHOTO CELL INPUT. LOCATE PHOTO CELL WITH CLEAR VIEW OF NORTHERN SKY AND SHIELD FROM ARTIFICIAL LIGHT SOURCES. TIMER SHALL CONTROL EXTERIOR LIGHTING AND PARKING LOT LIGHTING.

4. VERIFY EXTERIOR FIXTURE MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

KEYED NOTES

1. PROVIDE 2-HOUR BATTERY BACKUP TO EMERGENCY LIGHT FIXTURE.

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SHEET TITLE
ELECTRICAL LIGHTING PLAN

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E101

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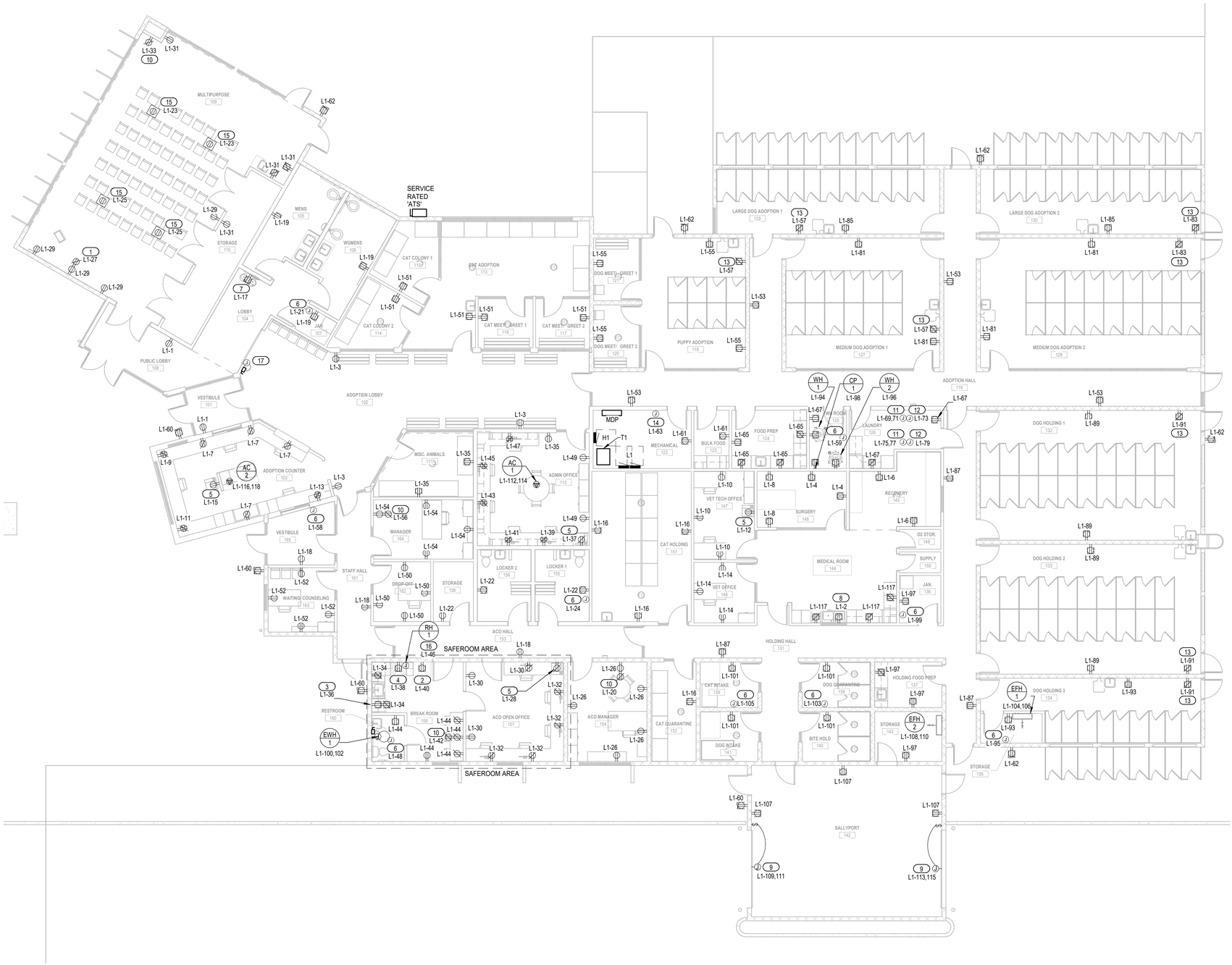

1 ELECTRICAL POWER PLAN

1/8" = 1'-0"

NORTH

SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.

2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.

3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

KEYED NOTES

1. PROVIDE 120V SMARTBOARD (BY OWNER) CONNECTION. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE ARCHITECT/OWNER AND THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. REFER TO SHEET 'E501' FOR ADDITIONAL INFORMATION.
2. PROVIDE 120V FRIDGE GFCI CONNECTION. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE 120V DISHWASHER GFCI CONNECTION. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. PROVIDE 120V OVEN GFCI CONNECTION. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE 120V PRINTER/COPIER CONNECTION. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT/OWNER AND THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE 120V TRAP PRIMER CONNECTION. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
7. PROVIDE 120V ELECTRIC WATER COOLER GFCI CONNECTION. COORDINATE THE EXACT LOCATION AND EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
8. PROVIDE 120V SINK CONNECTION. COORDINATE THE EXACT LOCATION AND EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
9. PROVIDE 208V OVERHEAD DOOR CONNECTION AND ASSOCIATED CONTROLS. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE ARCHITECT PRIOR TO ROUGH-IN.
10. PROVIDE 120V TV CONNECTION. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT/OWNER AND THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
11. PROVIDE 208V GFCI CONNECTION FOR STACKED DRYER. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
12. PROVIDE 120V GFCI CONNECTION FOR STACKED WASHER. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
13. PROVIDE 120V MIXING VALVE STATION GFCI CONNECTION AND ASSOCIATED CONTROLS. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
14. PROVIDE 120V CONNECTION FIRE ALARM CONTROL PANEL. COORDINATE THE EXACT LOCATION AND THE EXACT CONNECTION REQUIREMENTS WITH THE FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
15. PROVIDE FLOORBOX. COORDINATE THE EXACT LOCATION AND EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND THE ARCHITECT PRIOR TO ROUGH-IN. REFER TO SHEET 'E501' FOR ADDTIONAL INFORMATION.
16. PROVIDE 120V KITCHEN HOOD CONNECTION AND ASSOCIATED CONTROLS. COORDINATE THE EXACT LOCATION AND EXACT CONNECTION REQUIREMENTS WITH THE MANUFACTURER, THE ARCHITECT, AND THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
17. PROVIDE 120V CONNECTION FOR COILING DOOR OPERATOR. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN.

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SHEET TITLE
ELECTRICAL POWER PLAN

SHEET NUMBER
E201

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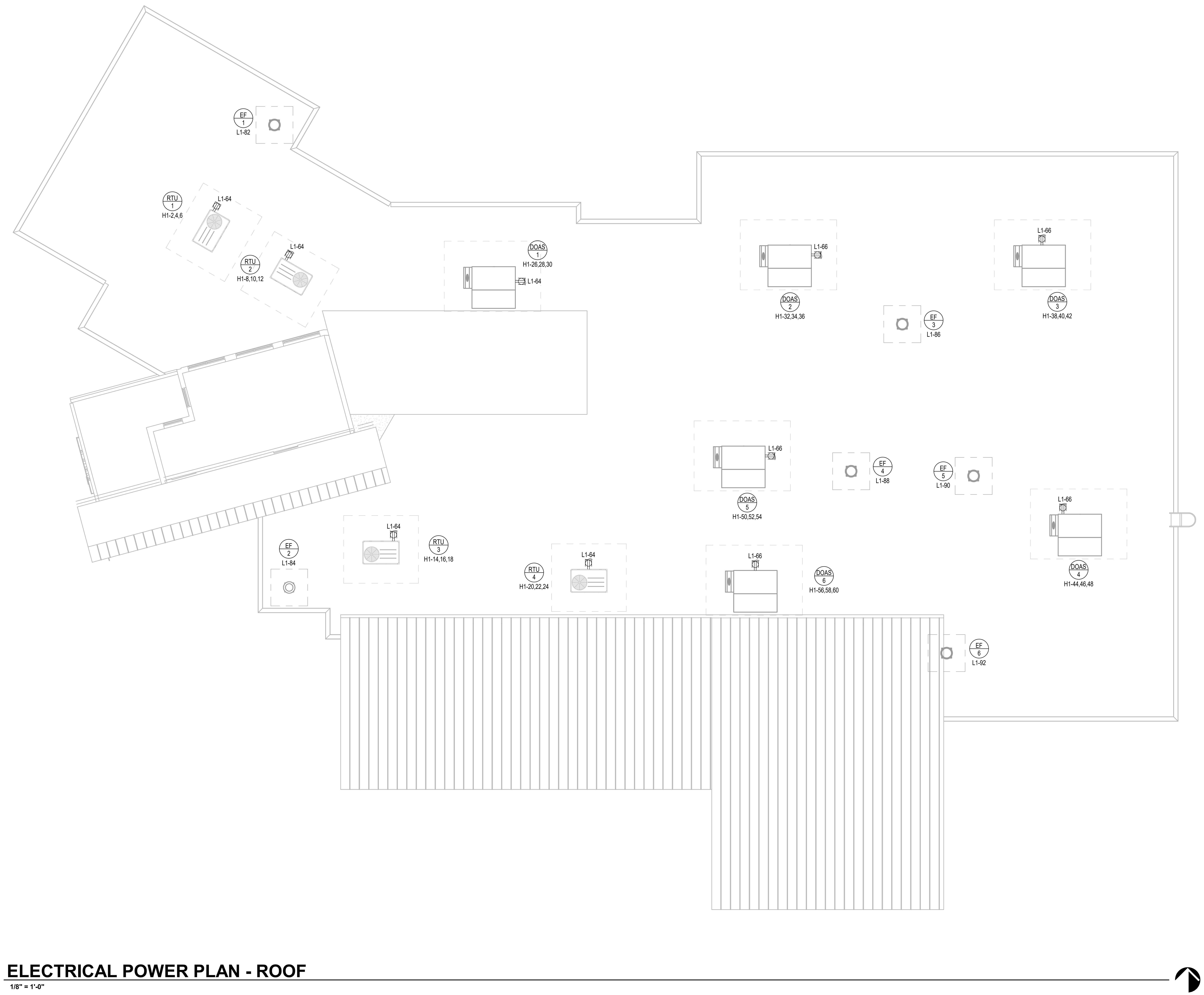
PROJECT NUMBER: 2020-61064-00

GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER DEVICES.
3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
4. FIRMLY MOUNT WEATHERPROOF 120V CONVENIENCE OUTLET ON UNISTRUT/KINDORF. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN. REDUNDANT RECEPTACLES WHETHER STAND-ALONE OR INTEGRAL TO A UNIT, MAY BE OMITTED SO LONG AS ALL OF THE REQUIREMENTS OF NEC 210.63 ARE SATISFIED.



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

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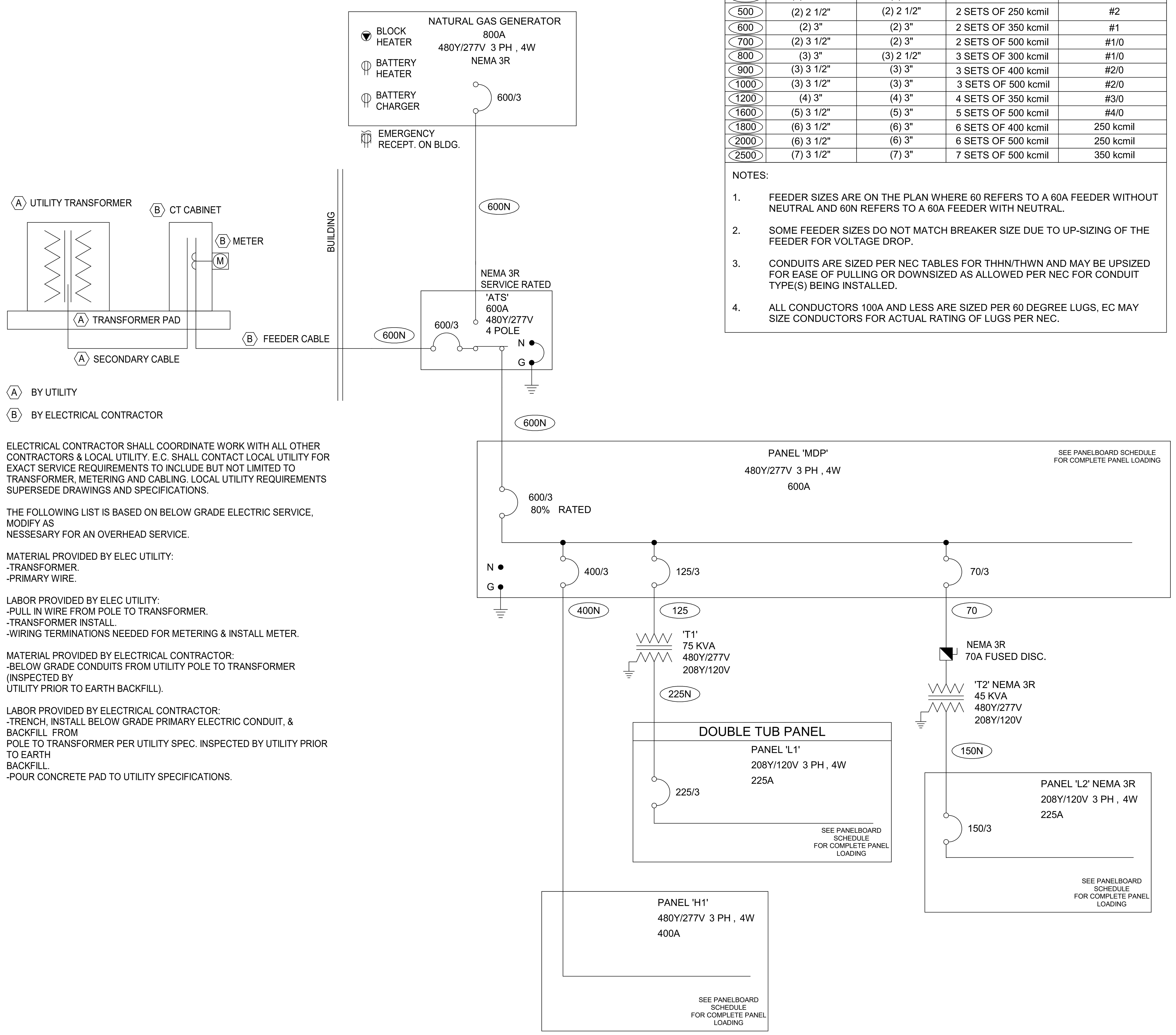
SHEET TITLE
ELECTRICAL POWER PLAN - ROOF

SHEET NUMBER
E202



ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.

THE FOLLOWING LIST IS BASED ON BELOW GRADE ELECTRIC SERVICE, MODIFY AS
NESSESARY FOR AN OVERHEAD SERVICE.

MATERIAL PROVIDED BY ELEC UTILITY:
-TRANSFORMER.
-PRIMARY WIRE.

LABOR PROVIDED BY ELEC UTILITY:
-PULL IN WIRE FROM POLE TO TRANSFORMER.
-TRANSFORMER INSTALL.
-WIRING TERMINATIONS NEEDED FOR METERING & INSTALL METER.

MATERIAL PROVIDED BY ELECTRICAL CONTRACTOR:
-BELOW GRADE CONDUITS FROM UTILITY POLE TO TRANSFORMER (INSPECTED BY
UTILITY PRIOR TO EARTH BACKFILL).

LABOR PROVIDED BY ELECTRICAL CONTRACTOR:
-TRENCH, INSTALL BELOW GRADE PRIMARY ELECTRIC CONDUIT, & BACKFILL FROM
POLE TO TRANSFORMER PER UTILITY SPEC. INSPECTED BY UTILITY PRIOR TO EARTH
BACKFILL.
-POUR CONCRETE PAD TO UTILITY SPECIFICATIONS.

1 ELECTRICAL ONE-LINE DIAGRAM

NOT TO SCALE

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

NOTES:

1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

EQUIPMENT COORDINATION SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	VA	FLA	MCA	MOCP	WIRE CALLOUT	DISCONNECT	DISCONNECT PROVIDED BY	DISCONNECT INSTALLED BY	NOTES
RTU-1	PACKAGED ROOFTOP GAS/ELECTRIC UNIT	480/3	-	9976	12	15	20	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
RTU-2	PACKAGED ROOFTOP GAS/ELECTRIC UNIT	480/3	-	13302	16	20	25	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
RTU-3	PACKAGED ROOFTOP GAS/ELECTRIC UNIT	480/3	-	9312	11.2	14	20	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
RTU-4	PACKAGED ROOFTOP GAS/ELECTRIC UNIT	480/3	-	7981	9.6	12	15	3/4"C,3#12,#12G	INTEGRAL	MFR	MFR	-
DOAS-1	OUTSIDE AIR UNIT	480/3	-	10642	12.8	16	25	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
DOAS-2	OUTSIDE AIR UNIT	480/3	-	25939	31.2	39	50	1"C,3#6,#10G	INTEGRAL	MFR	MFR	-
DOAS-3	OUTSIDE AIR UNIT	480/3	-	22612	27.2	34	40	1"C,3#8,#10G	INTEGRAL	MFR	MFR	-
DOAS-4	OUTSIDE AIR UNIT	480/3	-	15297	18.4	23	30	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
DOAS-5	OUTSIDE AIR UNIT	480/3	-	25939	31.2	39	50	1"C,3#6,#10G	INTEGRAL	MFR	MFR	-
DOAS-6	OUTSIDE AIR UNIT	480/3	-	15297	18.4	23	30	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
EF-1	EXHAUST FAN	120/1	FRAC.	600	5	6.25	15	3/4"C,3#12,#12G	MOTOR RATED SWITCH	MC	EC	-
EF-2	EXHAUST FAN	120/1	FRAC.	600	5	6.25	15	3/4"C,3#12,#12G	MOTOR RATED SWITCH	MC	EC	-
EF-3	EXHAUST FAN	120/1	FRAC.	600	5	6.25	15	3/4"C,3#12,#12G	MOTOR RATED SWITCH	MC	EC	-
EF-4	EXHAUST FAN	120/1	FRAC.	600	5	6.25	15	3/4"C,3#12,#12G	MOTOR RATED SWITCH	MC	EC	-
EF-5	EXHAUST FAN	120/1	FRAC.	600	5	6.25	15	3/4"C,3#12,#12G	MOTOR RATED SWITCH	MC	EC	-
EF-6	EXHAUST FAN	120/1	FRAC.	600	5	6.25	15	3/4"C,3#12,#12G	MOTOR RATED SWITCH	MC	EC	-
EFH-1	ELECTRIC FAN FORCED HEATER	208/1	-	1997	9.6	12	20	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
EFH-2	ELECTRIC FAN FORCED HEATER	208/1	-	1997	9.6	12	20	3/4"C,3#10,#10G	INTEGRAL	MFR	MFR	-
AC-1	MINI SPLIT A/C (OUTDOOR)	208/1	-	2995	14.4	18	25	3/4"C,3#10,#10G	MOTOR RATED SWITCH	MC	EC	-
AC-1	MINI SPLIT A/C (INDOOR)	208/1	-	-	-	-	-	-	MOTOR RATED SWITCH	MC	EC	-
AC-2	MINI SPLIT A/C (OUTDOOR)	208/1	-	2995	14.4	18	25	3/4"C,3#10,#10G	MOTOR RATED SWITCH	MC	EC	-
AC-2	MINI SPLIT A/C (INDOOR)	208/1	-	-	-	-	-	-	MOTOR RATED SWITCH	MC	EC	-
WH-1	GAS WATER HEATER	120/1	-	500	4.2	5.2	20	3/4"C,3#12,#12G	RECEPTACLE	EC	EC	-
WH-2	GAS WATER HEATER	120/1	-	500	4.2	5.2	20	3/4"C,3#12,#12G	RECEPTACLE	EC	EC	-
CP-1	CIRC PUMP	120/1	FRAC.	96	0.80	1	15	3/4"C,3#12,#12G	RECEPTACLE	EC	EC	-
EWH-1	ELECTRIC WATER HEATER	208/1	-	4500	22	27.5	30	3/4"C,3#10,#10G	NON-FUSED	EC	EC	-

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

MOORE ANIMAL SHELTER
1316 SE 34TH STREET.
MOORE, OK 73160

SEAL

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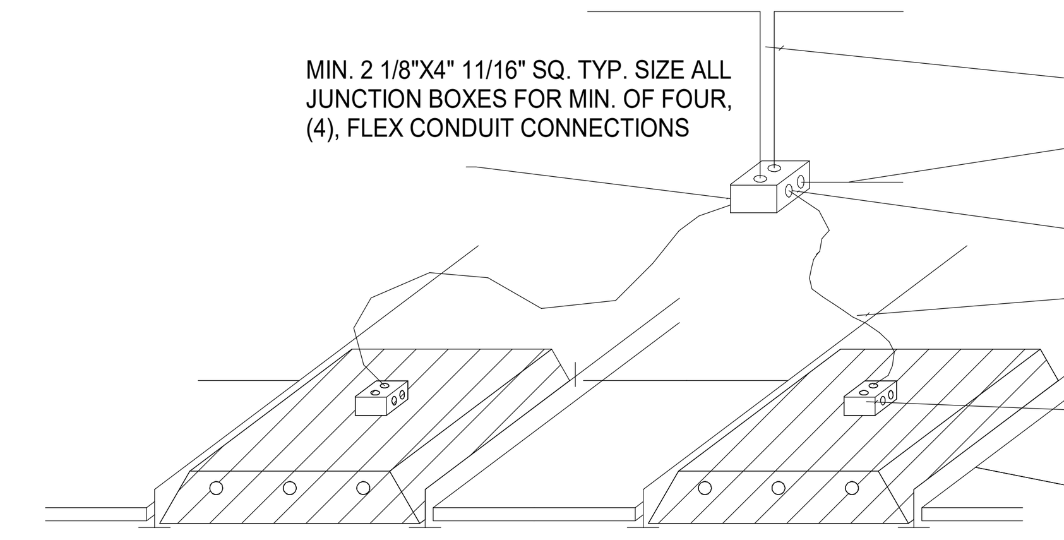
OK CA No. 01771
06-30-23

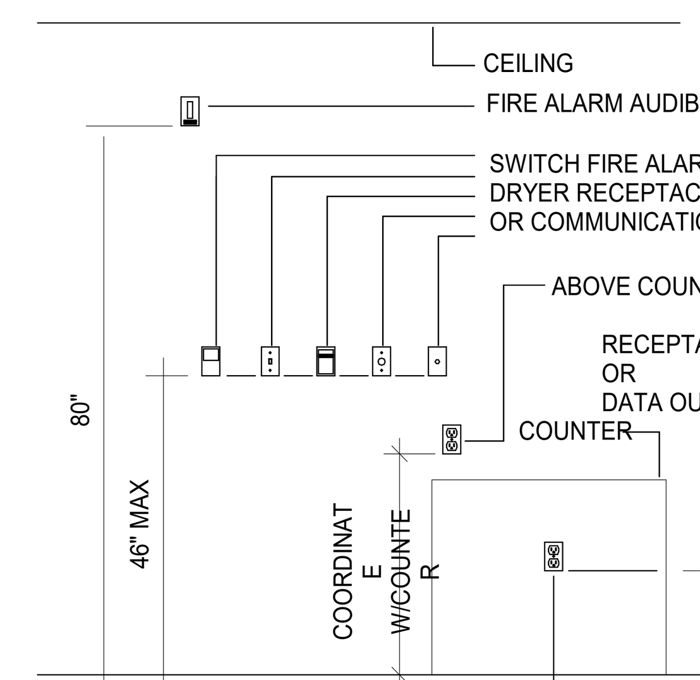
PROJECT NUMBER
M31114
ISSUE DATE
6/7/2022
REVISION DATES

SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

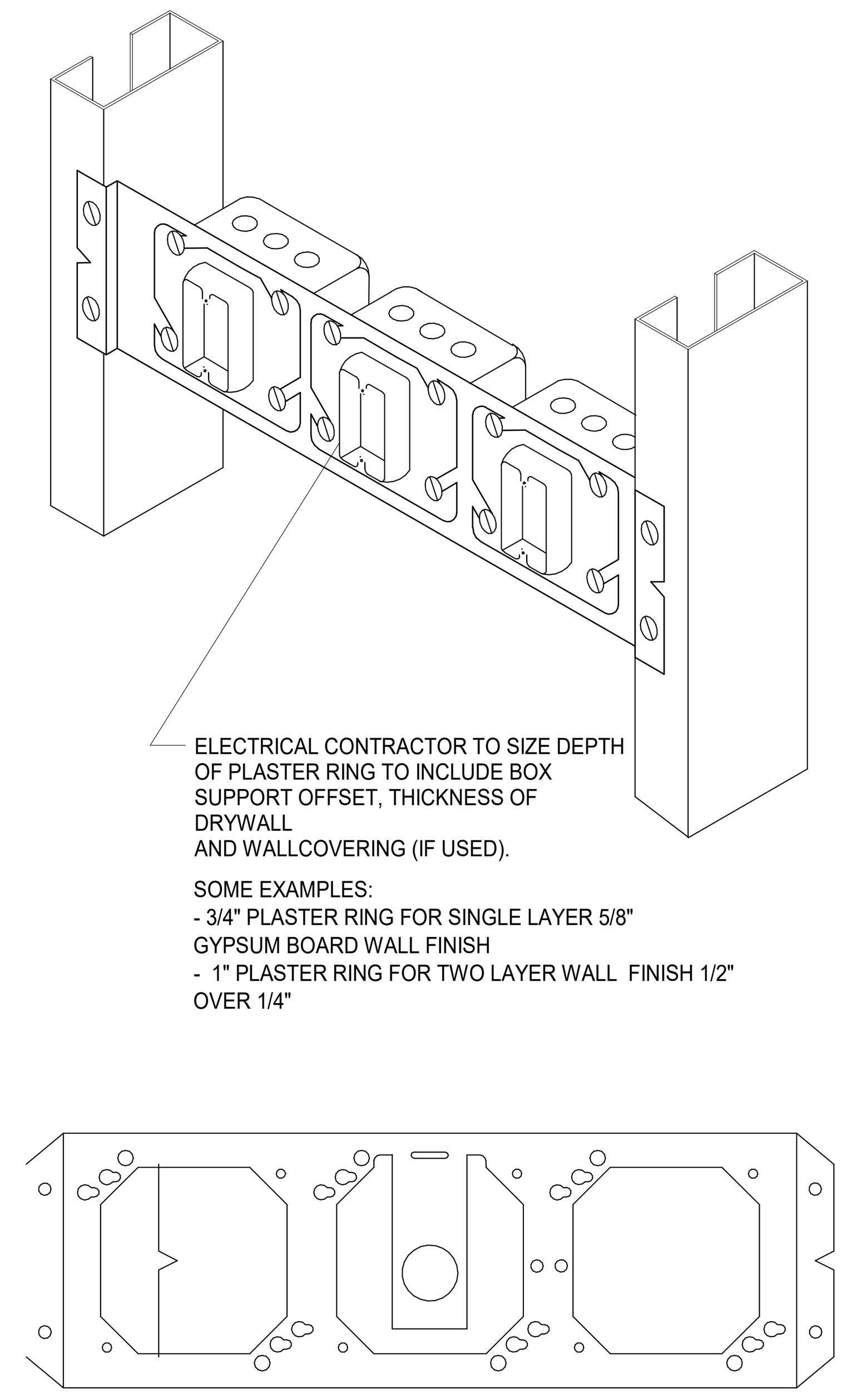
SHEET NUMBER
E401



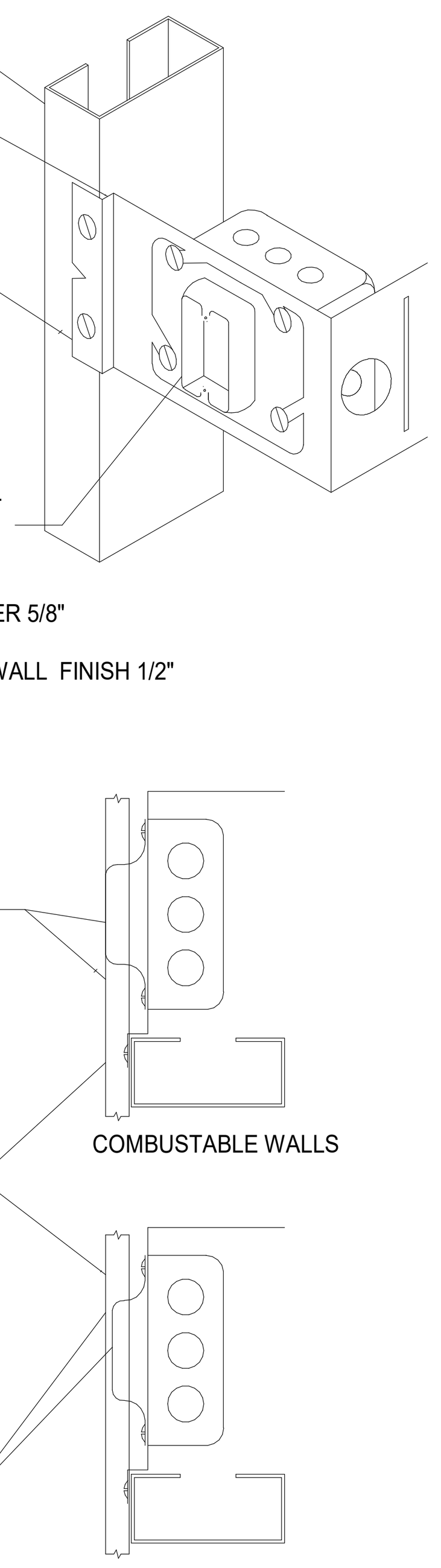
1 TYP.TROFFER POWER DETAIL
NO SCALE



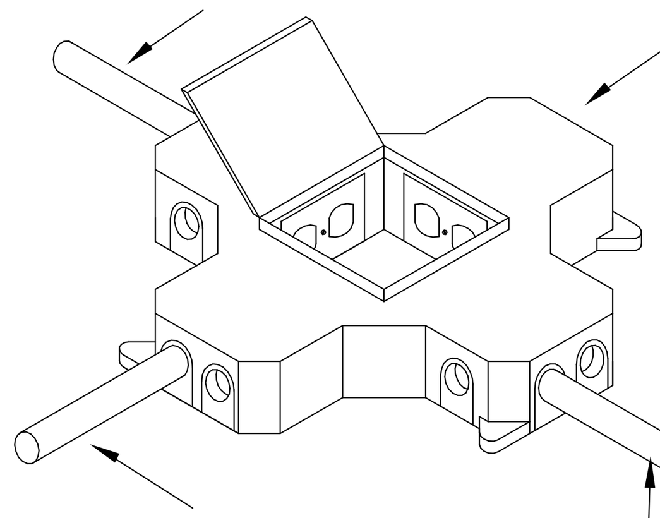
2 TYP OUTLET MOUNTING DETAIL
NO SCALE



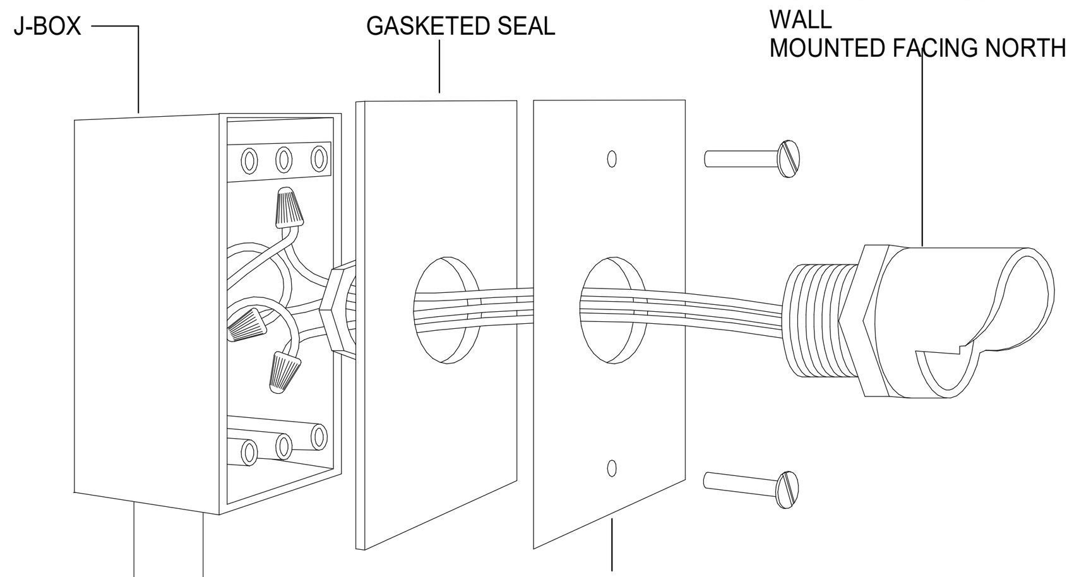
3 MULTIPLE BOX SUPPORT DETAIL
NO SCALE



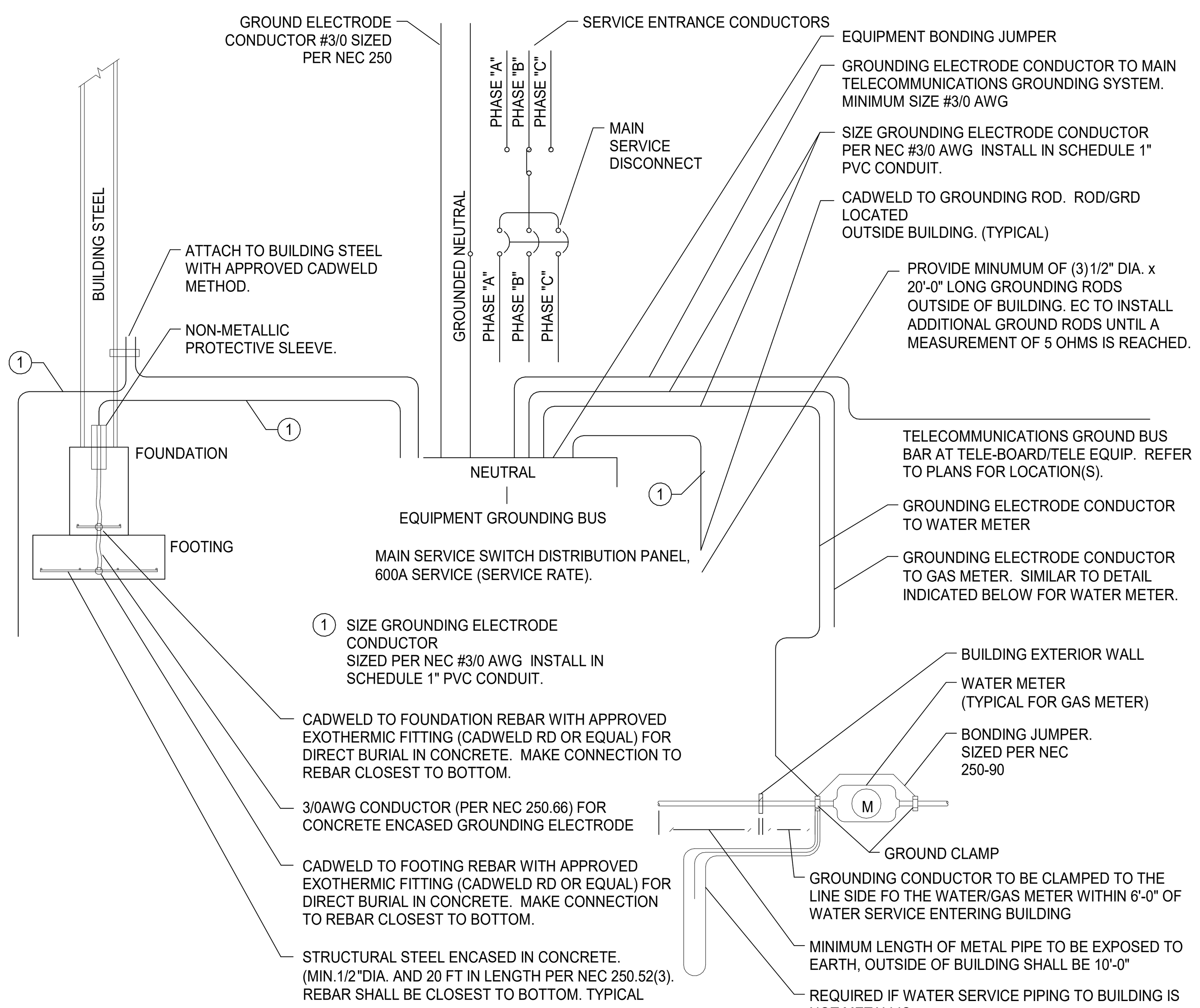
4 BOX SUPPORT DETAIL
NO SCALE



5 ELECTRICAL FLOOR BOX DETAIL
NO SCALE

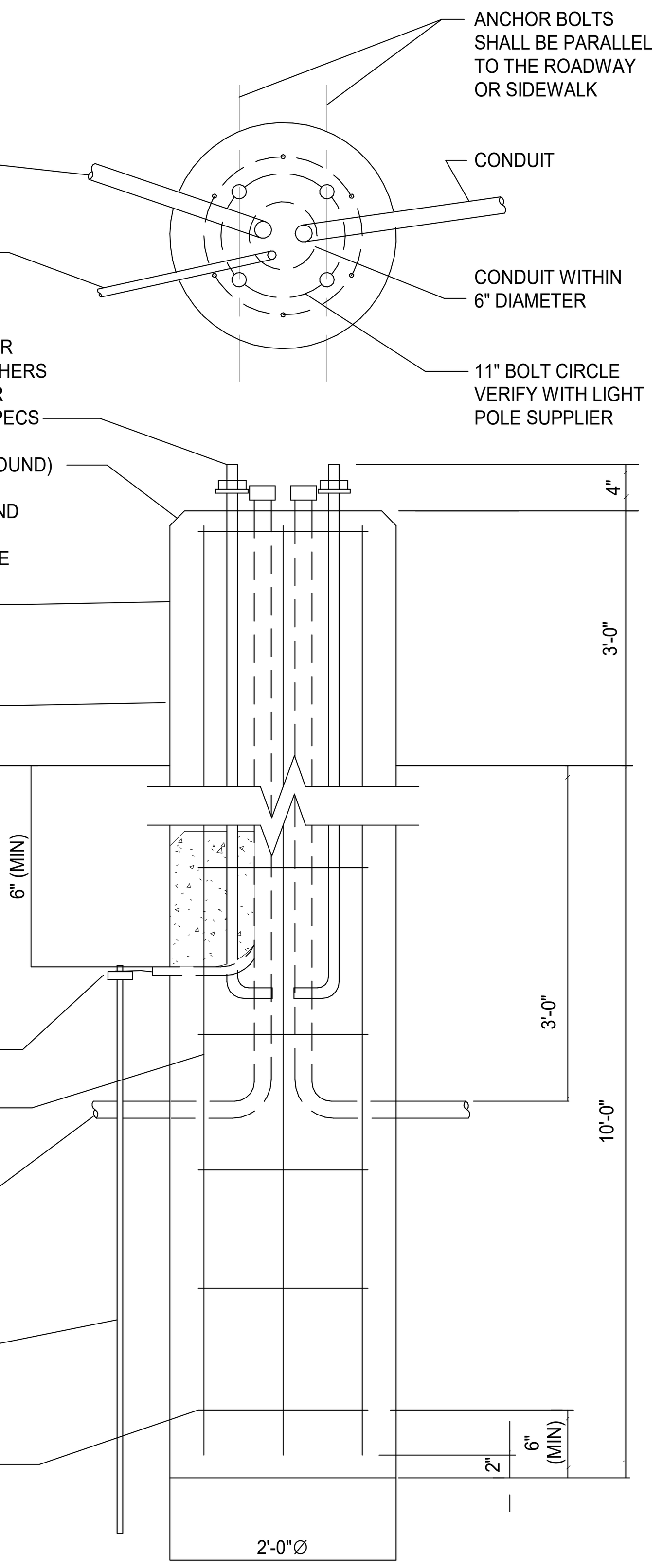


6 OUTDOOR PHOTOCELL
NO SCALE



NOTE: ALL GROUNDING TO BE PROVIDED IN ACCORDANCE WITH NEC ARTICLE 250

7 MAIN ELECTRICAL GROUNDING DETAIL
NO SCALE



8 POLE BASE DETAIL
NO SCALE

MOORE ANIMAL SHELTER
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SALAS O'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

SHEET TITLE
ELECTRICAL DETAILS SHEET

SHEET NUMBER
E501

PANELBOARD: MDP

Location: MECHANICAL 122
Supply From: ATS
Mounting: Surface

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type:
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	H1	3	400 A	400 A	168406 VA	
2	T1	3	125 A	125 A	73796 VA	
3	T2	3	70 A	70 A	20560 VA	
4						
5						
6						
7						
8						
9						
10						
				Total Conn. Load:	262730 VA	
				Total Amps:	316 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	11989 VA	125.00%	14986 VA		
Motor	18200 VA	120.60%	21950 VA	**Total Conn. Load:**	262730 VA
Miscellaneous	15492 VA	100.00%	15492 VA	**Total Est. Demand:**	250491 VA
Power	6490 VA	100.00%	6490 VA	**Total Conn. Current:**	316 A
HVAC	159897 VA	100.00%	159897 VA	**Total Est. Demand Current:**	301 A
Heating	3994 VA	100.00%	3994 VA	**Non-COincedent...**	
				Total Est. Demand - NC:	

Notes:

PANELBOARD: H1

Location: MECHANICAL 122
Supply From: MDP
Mounting: Surface

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Bus Ampacity 400 A
MLO: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
H1-1	101, 104, 105,106,107,108 LIGHTING	20 A	1	0.6	3.3					3	20 A	RTU-1	H1-2
H1-3	102 LIGHTING	20 A	1			0.4	3.3			--	--	--	H1-4
H1-5	103 LIGHTING	20 A	1					0.2	3.3	--	--	--	H1-6
H1-7	109, 110 LIGHTING	20 A	1	0.7	4.4					3	25 A	RTU-2	H1-8
H1-9	113,114,115,116,117,119,120,121 LIGHTING	20 A	1			0.7	4.4			--	--	--	H1-10
H1-11	127,129 LIGHTING	20 A	1					0.6	4.4	--	--	--	H1-12
H1-13	128, 130 LIGHTING	20 A	1	0.7	3.1					3	20 A	RTU-3	H1-14
H1-15	118 LIGHTING	20 A	1			0.4	3.1			--	--	--	H1-16
H1-17	132,133 LIGHTING	20 A	1					0.8	3.1	--	--	--	H1-18
H1-19	131 LIGHTING	20 A	1	0.3	2.7					3	15 A	RTU-4	H1-20
H1-21	134,135,137,143 LIGHTING	20 A	1			0.4	2.7			--	--	--	H1-22
H1-23	136,145,149,150 LIGHTING	20 A	1					0.4	2.7	--	--	--	H1-24
H1-25	146,147,148 LIGHTING	20 A	1	0.5	3.5					3	25 A	DOAS -1	H1-26
H1-27	123,124,125,126 LIGHTING	20 A	1			0.2	3.5			--	--	--	H1-28
H1-29	138,139,140,141,152 LIGHTING	20 A	1					0.3	3.5	--	--	--	H1-30
H1-31	154,157,159,160 LIGHTING	20 A	1	0.4	8.6					3	50 A	DOAS-2	H1-32
H1-33	111,158,161,162,163,164,165 LIGHTING	20 A	1			0.5	8.6			--	--	--	H1-34
H1-35	112,122,153,155,156, LIGHTING	20 A	1					0.7	8.6	--	--	--	H1-36
H1-37	142 LIGHTING	20 A	1	0.2	7.5					3	40 A	DOAS-3	H1-38
H1-39	EXTERIOR LIGHTING	20 A	1			0.2	7.5			--	--	--	H1-40
H1-41	EXTERIOR LIGHTING	20 A	1					0.2	7.5	--	--	--	H1-42
H1-43	EXTERIOR BLDG LED SIGN	20 A	1	0.5	5.1					3	30 A	DOAS-4	H1-44
H1-45	COVERED PARKING LIGHTING	20 A	1			0.2	5.1			--	--	--	H1-46
H1-47	SITE LIGHTING	20 A	1					1.1	5.1	--	--	--	H1-48
H1-49	SITE LIGHTING	20 A	1	1.5	8.6					3	50 A	DOAS-5	H1-50
H1-51	SITE GEN LIGHTING	20 A	1			0.2	8.6			--	--	--	H1-52
H1-53									8.6	--	--	--	H1-54
H1-55					5.1					3	30 A	DOAS-6	H1-56
H1-57							5.1			--	--	--	H1-58
H1-59									5.1	--	--	--	H1-60
H1-61													H1-62
H1-63													H1-64
H1-65													H1-66
H1-67													H1-68
H1-69													H1-70
H1-71													H1-72
		Total Load:		57.3 kVA		54.9 kVA		56.2 kVA					
		Total Amps:		208 A		198 A		204 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	11989 VA	125.00%	14986 VA		
Miscellaneous	500 VA	100.00%	500 VA	**Total Conn. Load:**	168406 VA
HVAC	156297 VA	100.00%	156297 VA	**Total Est. Demand:**	171317 VA
				Total Conn. Current:	203 A
				Total Est. Demand Current:	206 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	206 A

Notes:

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

MOORE ANIMAL SHELTER
1316 SE 34TH STREET.
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06-30-23

PROJECT NUMBER
M31114

ISSUE DATE
6/7/2022

REVISION DATES

SHEET TITLE
ELECTRICAL SCHEDULES SHEET

SHEET NUMBER
E601

PANELBOARD: L1

Location: MECHANICAL 122 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 65,000
Supply From: T1 | **Phases:** 3 | **Bus Ampacity** 225 A
Mounting: Surface | **Wires:** 4 | **MCB:** 225A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
L1-1	101, 104, 108 RCPT.	20 A	1	0.4	0.2					1	20 A	144 SINK RCPT.	L1-2
L1-3	102 RCPT.	20 A	1			0.5	0.4			1	20 A	146 RCPT.	L1-4
L1-5	102 DOOR CONNECTION	20 A	1					0.5	0.4	1	20 A	145 RCPT.	L1-6
L1-7	103 RCPT.	20 A	1	0.7	0.4					1	20 A	146 RCPT.	L1-8
L1-9	103 QUAD RCPT.	20 A	1			0.4	0.5			1	20 A	147 RCPT.	L1-10
L1-11	103 QUAD RCPT.	20 A	1					0.4	1.0	1	20 A	147 PRINTER/COPIER RCPT.	L1-12
L1-13	103 QUAD RCPT.	20 A	1	0.4	0.5					1	20 A	148 RCPT.	L1-14
L1-15	103 PRINTER/COPIER RCPT.	20 A	1			1.0	0.7			1	20 A	151, 152 RCPT.	L1-16
L1-17	104 EWC GFCI RCPT.	20 A	1					0.2	0.5	1	20 A	153,161,165 RCPT.	L1-18
L1-19	105, 106, 107 RCPT.	20 A	1	0.5	0.2					1	20 A	154 TV RCPT.	L1-20
L1-21	107 TRAP PRIMER	20 A	1			0.5	0.5			1	20 A	155,156,158 RCPT.	L1-22
L1-23	109 FB RCPT.	20 A	1					0.4	0.5	1	20 A	155 TRAP PRIMER	L1-24
L1-25	109 FB RCPT.	20 A	1	0.4	0.9					1	20 A	154 RCPT.	L1-26
L1-27	109 SMARTBOARD	20 A	1			0.2	1.0			1	20 A	157 PRINTER/COPIER RCPT.	L1-28
L1-29	109 RCPT.	20 A	1					0.7	0.5	1	20 A	157 RCPT.	L1-30
L1-31	109,110 RCPT.	20 A	1	0.7	0.7					1	20 A	157 RCPT.	L1-32
L1-33	109 TV RCPT.	20 A	1			0.2	0.4			1	20 A	159,160 RCPT.	L1-34
L1-35	111,112 RCPT.	20 A	1					0.5	0.2	1	20 A	159 DISHWASHER RCPT.	L1-36
L1-37	112 PRINTER/COPIER RCPT.	20 A	1	1.0	0.5					1	20 A	159 OVEN RCPT.	L1-38
L1-39	112 QUAD RCPT.	20 A	1			0.4	1.0			1	20 A	159 FRIDGE RCPT.	L1-40
L1-41	112 QUAD RCPT.	20 A	1					0.4	0.2	1	20 A	159 TV RCPT.	L1-42
L1-43	112 QUAD RCPT.	20 A	1	0.4	0.9					1	20 A	159, 160 RCPT.	L1-44
L1-45	112 QUAD RCPT.	20 A	1			0.4	1.0			1	20 A	159 ROOF HOOD	L1-46
L1-47	112 QUAD RCPT.	20 A	1					0.4	0.5	1	20 A	160 TRAP PRIMER	L1-48
L1-49	112 RCPT.	20 A	1	0.4	0.7					1	20 A	162 RCPT.	L1-50
L1-51	113,114,115,116,117 RPCT.	20 A	1			0.9	0.7			1	20 A	163 RCPT.	L1-52
L1-53	118 RCPT.	20 A	1					0.7	0.7	1	20 A	164 RCPT.	L1-54
L1-55	119,120,121 RCPT.	20 A	1	0.7	0.2					1	20 A	164 TV RCPT.	L1-56
L1-57	119,127, 129 MVS	20 A	1			0.5	0.5			1	20 A	165 TRAP PRIMER	L1-58
L1-59	125 TRAP PRIMER	20 A	1					0.5	0.7	1	20 A	EXTERIOR RCPT.	L1-60
L1-61	122,123, RCPT.	20 A	1	0.4	0.9					1	20 A	EXTERIOR RCPT.	L1-62
L1-63	122 FIRE ALARM CONTROL PANEL	20 A	1			0.5	0.9			1	20 A	EXTERIOR ROOF RCPT.	L1-64
L1-65	124 RCPT.	20 A	1					0.7	0.9	1	20 A	EXTERIOR ROOF RCPT.	L1-66
L1-67	125,126 RCPT.	20 A	1	0.5	1.2					1	20 A	EXTERIOR GATE	L1-68
L1-69	126 STACKED DRYER	30 A	2			0.5	1.2			1	20 A	EXTERIOR GATE	L1-70
L1-71	--	--	--					0.5	1.2	1	20 A	EXTERIOR GATE	L1-72
L1-73	126 STACKED WASHER	20 A	1	0.5	0.5					1	20 A	GEN BATTERY CHARGER	L1-74
L1-75	126 STACKED DRYER	30 A	2			0.5	0.5			1	20 A	GEN EM RCPT.	L1-76
L1-77	--	--	--					0.5	0.5	1	20 A	GEN BATTERY HEATER	L1-78
L1-79	126 STACKED WASHER	20 A	1	0.5	0.5					1	20 A	GEN BLOCK HEATER	L1-80
L1-81	127,128 RCPT.	20 A	1			0.7	0.6			1	15 A	EF-1	L1-82
L1-83	128, 130 MVS	20 A	1					0.4	0.6	1	15 A	EF-2	L1-84
L1-85	129,130 RCPT.	20 A	1	0.4	0.6					1	15 A	EF-3	L1-86
L1-87	131 RCPT.	20 A	1			0.5	0.6			1	15 A	EF-4	L1-88
L1-89	132,133 RCPT.	20 A	1					0.7	0.6	1	15 A	EF-5	L1-90
L1-91	132,133,134 MVS	20 A	1	0.5	0.6					1	15 A	EF-6	L1-92
L1-93	134,135 RCPT.	20 A	1			0.4	0.5			1	20 A	125 WH-1	L1-94
L1-95	135 TRAP PRIMER	20 A	1					0.5	0.5	1	20 A	125 WH-2	L1-96
L1-97	136,137,143 RCPT.	20 A	1	0.7	0.1					1	15 A	125 CP-1	L1-98
L1-99	136 TRAP PRIMER	20 A	1			0.5	2.3			2	30 A	160 EWH-1	L1-100
L1-101	138,139,140,141	20 A	1					0.7	2.3	--	--	--	L1-102
L1-103	138 TRAP PRIMER	20 A	1	0.5	1.0					2	20 A	135 EFH-1	L1-104
L1-105	139 TRAP PRIMER	20 A	1			0.5	1.0			--	--	--	L1-106
L1-107	142 RCPT.	20 A	1					0.5	1.0	2	20 A	143 EFH-2	L1-108
L1-109	142 OVERHEAD DOOR	20 A	2	0.5	1.0					--	--	--	L1-110
L1-111	--	--	--			0.5	1.5			2	20 A	112 AC-1	L1-112
L1-113	142 OVERHEAD DOOR	20 A	2					0.5	1.5	--	--	--	L1-114
L1-115	--	--	--	0.5	1.5					2	20 A	103 AC-2	L1-116
L1-117	144 RCPT.	20 A	1			0.5	1.5			--	--	--	L1-118
L1-119													L1-120
L1-121													L1-122
L1-123													L1-124
L1-125													L1-126
L1-127													L1-128
L1-129													L1-130
L1-131													L1-132
L1-133													L1-134
L1-135													L1-136
L1-137													L1-138
L1-139													L1-140
L1-141													L1-142
L1-143													L1-144
		Total Load:		23.1 kVA		27.0 kVA		23.6 kVA					
		Total Amps:		193 A		226 A		198 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	12992 VA	100.00%	12992 VA		
Receptacle	47445 VA	60.54%	28722 VA	**Total Conn. Load:**	73796 VA
Power	6490 VA	100.00%	6490 VA	**Total Est. Demand:**	55080 VA
HVAC	3600 VA	100.00%	3600 VA	**Total Conn. Current:**	205 A
Heating	3994 VA	100.00%	3994 VA	**Total Est. Demand Current:**	153 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	153 A

Notes:
DOUBLE TUB

PANELBOARD: L2

Location: INCINERATOR | **Volts:** 120/208 Wye | **A.I.C. Rating:** 65,000
Supply From: T2 | **Phases:** 3 | **Bus Ampacity** 225 A
Mounting: Surface | **Wires:** 4 | **MCB:** 150 A

... NEMA 3R

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
L2-1	INCINERATOR BLDG RCPT.	20 A	1	0.4									L2-2
L2-3	INCINERATOR	40 A	1			3.2							L2-4
L2-5	WALK-IN FREEZER	50 A	3					5.0					L2-6
L2-7	--	--	--	5.0									L2-8
L2-9	--	--	--			5.0							L2-10
L2-11	WALK-IN FREEZER DOOR HEATER &...	20 A	1					1.0					L2-12
L2-13	WALK-IN FREEZER HEAT TAPE	20 A	1	1.0									L2-14
L2-15													L2-16
L2-17													L2-18
L2-19													L2-20
L2-21													L2-22
L2-23													L2-24
L2-25													L2-26
L2-27													L2-28
L2-29													L2-30
		Total Load:		6.4 kVA		8.2 kVA		6.0 kVA					
		Total Amps:		53 A		69 A		50 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	2000 VA	100.00%	2000 VA		
Motor	18200 VA	120.60%	21950 VA	**Total Conn. Load:**	20560 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	24310 VA
				Total Conn. Current:	57 A
				Total Est. Demand Current:	67 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	67 A

Notes:

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06-30-23

PROJECT NUMBER
M31114

ISSUE DATE
6/7/2022

REVISION DATES

SHEET TITLE
ELECTRICAL SCHEDULES SHEET

SHEET NUMBER
E602

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

GENERAL PLUMBING NOTES

1. THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2. ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
3. VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
4. VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
6. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
8. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
9. CHANGES IN THE DIRECTION OF SANITARY DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E : USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
10. CONTRACTOR SHALL GIVE 48 HOURS HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
11. ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
12. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
13. SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON CIVIL DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES. (INC. CLEAN OUTS, INCREASES, BACKWATER VALVES, ETC.)
14. COORDINATE WITH ARCHITECT/GENERAL CONTRACTOR FOR INSTALLATION OF HOSE BIBS. HEIGHT OF INSTALLATION SHALL BE DETERMINED IN FIELD.
15. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
16. ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
17. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
18. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
19. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
20. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
21. COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
22. ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.
23. VERIFY WITH ARCHITECT ON ALL EQUIPMENT AND FIXTURES REQUIRING PLUMBING PRIOR TO BID. COORDINATE EXACT LOCATIONS AND CONNECTIONS.
24. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
25. CONTRACTOR SHALL PAY ALL FEES, PERMITS, LICENSES, ETC. NECESSARY FOR PROPER COMPLETION OF WORK.
26. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
27. PROVIDE PROSET TRAP GUARDS ON ALL FLOOR DRAINS, FLOOR SINKS AND OPEN SITES. WHERE TRAP GUARDS ARE PROHIBITED, PROVIDE WADE 2400MF TRAP PRIMER VALVE W/MANIFOLD FOR EVERY FOUR(4) FIXTURES OR EQUAL.
28. PROVIDE RIGID CONNECTION BETWEEN ALL SENSOR VALVES AND SENSOR LOCATION.
29. MOUNT ALL FIXTURE SENSORS PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING PIPING LINETYPES

LINETYPE	DESCRIPTION
– – – – – – – – – – – –	DEMOLITION
——— G ———	GAS
———————	SANITARY ABOVE GRADE
— — — — — —	SANITARY BELOW GRADE
———————	STORM ABOVE GRADE
– – – – – – – – – – – –	STORM BELOW GRADE
– – – – – – – – – – – –	VENT ABOVE GRADE
- -	VENT BELOW GRADE
——— - ———	COLD WATER
— — — — — — —	COLD WATER BELOW GRADE
——— - - ———	HOT WATER
— — — — — — —	HOT WATER BELOW GRADE
——— - - - ———	RECIRC WATER
— — — — — — —	RECIRC WATER BELOW GRADE

PLUMBING PIPING LEGEND

	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	END CAP
	NEW TO EXISTING PIPE CONNECTION
	FLOW DIRECTION ARROW
	NEW TO EXISTING POINT OF CONNECTION SYMBOL
	PIPE CONNECTION
	HAMMER ARRESTOR (PISTON TYPE)
	HAMMER ARRESTOR (BELLOWS TYPE)
	PIPING LINEWEIGHT: NEW/DEMOLITION
	PIPING LINEWEIGHT: EXISTING

PLUMBING ABBREVIATIONS

AG	ABOVE GRADE	MC	MECHANICAL CONTRACTOR
ADD	ADDENDUM	MECH	MECHANICAL
ADDL	ADDITIONAL	MIN	MINIMUM
ADJ	ADJUSTABLE	NG	NATURAL GAS
AFF	ABOVE FINISH FLOOR	NTS	NOT TO SCALE
AFG	ABOVE FINISH GRADE	NPCW	NON POTABLE COLD WATER
ALT	ALTERNATE	ORD	OVERFLOW ROOF DRAIN
BG	BELOW GRADE	OST	OVERFLOW STORM DRAIN
CO	CLEANOUT	PC	PLUMBING CONTRACTOR
COL	COLUMN	PLBG	PLUMBING
CW	COLD WATER	PRES	PRESSURE
DN	DOWN	QTY	QUANTITY
EC	ELECTRICAL CONTRACTOR	RD	ROOF DRAIN
ECO	EXTERIOR CLEANOUT	RTU	ROOFTOP UNIT
EQ	EQUAL	SAN	SANITARY
FC	FIRE CONTRCTOR	SCH	SCHEDULE
FCO	FLOOR CLEANOUT	SPEC	SPECIFICATIONS
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FDC	FIRE DEPARTMENT CONNECTION	ST	STORM DRAIN
FLR	FLOOR	TD	TRENCH DRAIN
FT	FOOT (FEET)	TEMP	TEMPERATURE
F	FURNACE	TYP	TYPICAL
GAL	GALLON	V	VENT
GC	GENERAL CONTRACTOR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W/	WITH
GW	GREASE WASTE	WCO	WALL CLEANOUT
HW	HOT WATER	WC	WATER CLOSET
HWR	HOT WATER RETURN		

PLUMBING SHEET INDEX

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00

MOORE ANIMAL SHELTER
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MOORE, OK 73160

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PROJECT NUMBER
M31114
ISSUE DATE
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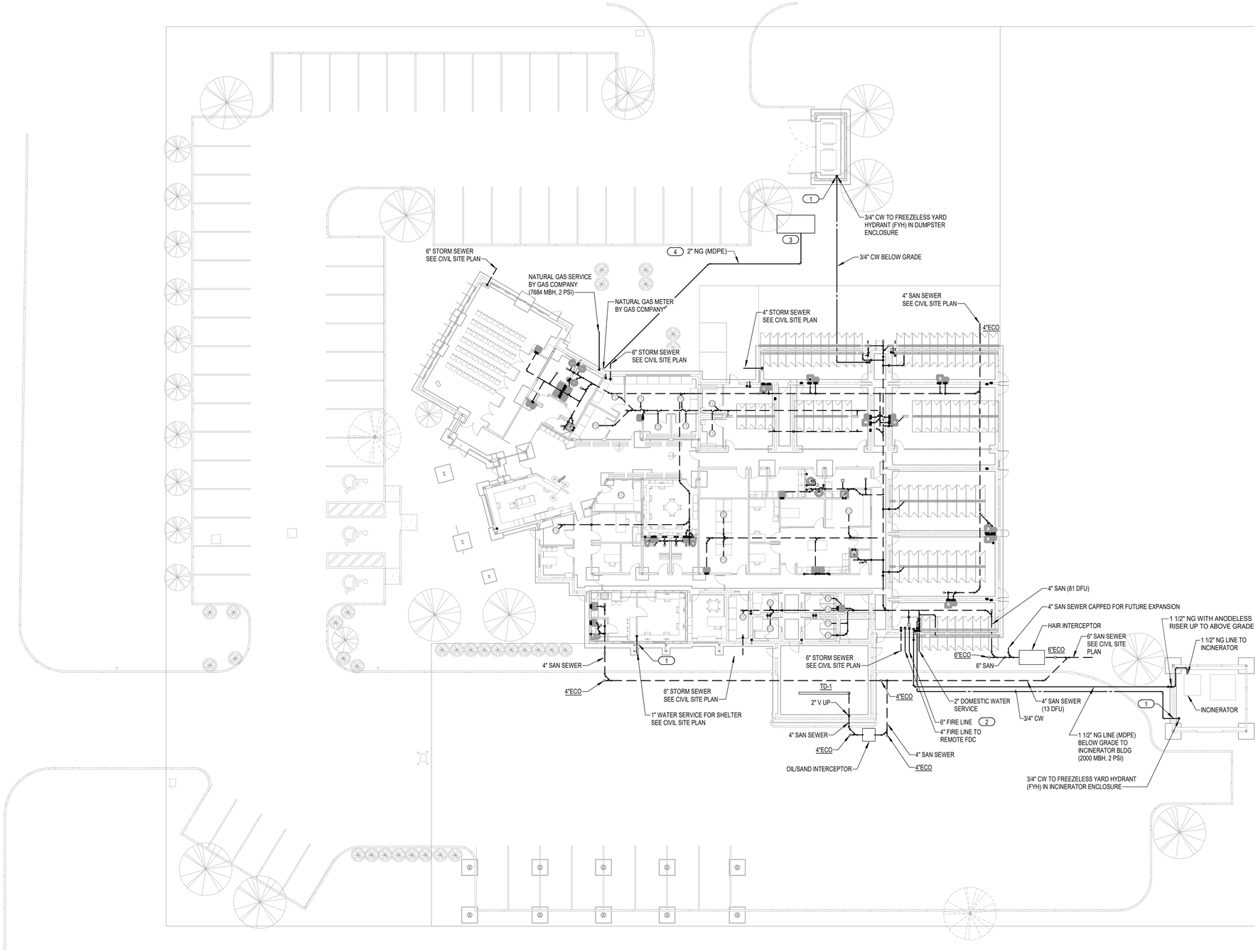
REVISION DATES

SHEET TITLE
PLUMBING LEGENDS, SYMBOLS & ABBREVIATIONS
SHEET NUMBER
P000



1 PLUMBING SITE PLAN

1/16" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL TRADES ON SITE.

KEYED NOTES

1. COORDINATE WITH STRUCTURAL FOR ROUTING WATER LINE BELOW OR ABOVE STRUCTURAL FOOTING.
2. COORDINATE WATER LINE LOCATIONS WITH CIVIL. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
3. EMERGENCY GENERATOR BY OTHERS. ROUGH-IN AND MAKE FINAL UNIT CONNECTION FOR NATURAL GAS. PROVIDE GAS PRESSURE REGULATOR PER GENERATOR REQUIREMENTS. COORDINATE WITH EQUIPMENT SUPPLIER.
4. FIELD VERIFY ROUTING OF 2" NATURAL GAS (MDPE TUBING) BELOW GRADE FROM METER OUTLET TO GENERATOR. PROVIDE ANODELESS RISER ON EACH END FOR TRANSITION FROM BELOW GRADE TO ABOVE GRADE.

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SHEET TITLE
PLUMBING
SITE PLAN

SHEET NUMBER
P001

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
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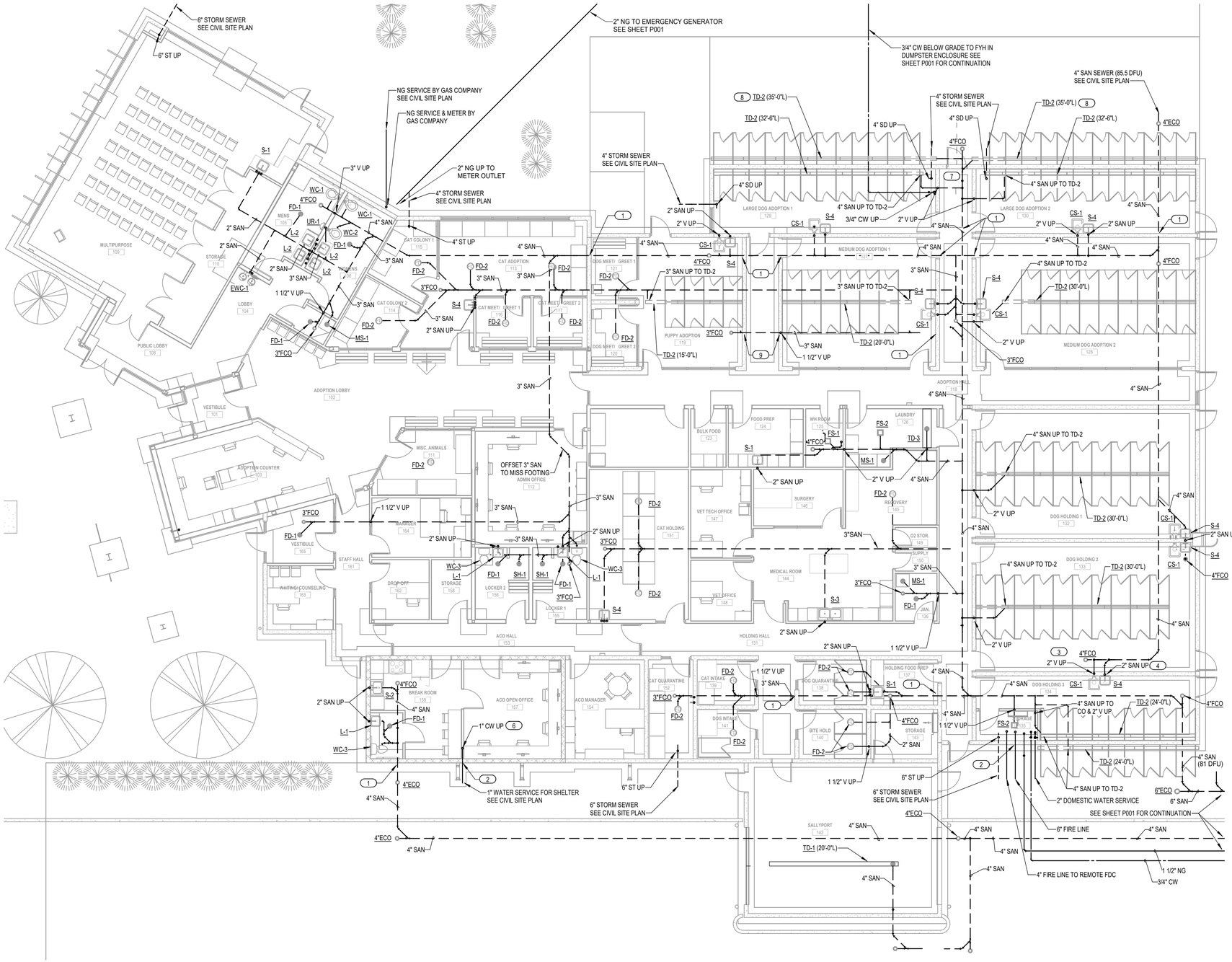

1 PLUMBING BG PLAN

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR ROUGH-IN SIZES AND ISOMETRIC SHEET P401 FOR ADDITIONAL PIPE SIZES.
4. INSULATE ALL DOMESTIC WATER AND STORM PIPES ABOVE FLOOR.
5. COORDINATE WITH STRUCTURAL FOR PIPE SLEEVES THRU OR BELOW STRUCTURAL FOOTINGS AND FOUNDATIONS.
6. INSTALL PIPE SLEEVE AT FLOOR PENETRATIONS OF DOMESTIC WATER AND FIRE LINE. INSTALL FOAM PIPE INSULATIONON PIPES IN SLEEVE. SEAL SLEEVE WATERTIGHT ON BOTH ENDS.
7. REFER TO GENERAL PLUMBING NOTES ON SHEET P000.
8. COORDINATE WITH SITE CONTRACTOR FOR WATER AND SEWER INVERT ELEVATIONS.
9. INSTALL TRAP GUARDS IN FLOOR DRAINS AND FLOOR SINKS.
10. PLUMBING FIXTURE WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE TYPE "L" WITH SUPPORT BRACKET FASTENED TO WALL STUDS.
11. INSTALL CEILING ACCESS PANEL FOR BALL VALVES ABOVE HARD CEILINGS. COORDINATE INSTALLATION WITH GC.

KEYED NOTES

1. PROVIDE CAST IRON PIPE SLEEVE FOR 4" SANITARY LINE BELOW STRUCTURAL FOOTING. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE AND SLEEVE INSTALLATION WITH STRUCTURAL.
2. PROVIDE CAST IRON PIPE SLEEVE FOR WATER LINE BELOW STRUCTURAL FOOTING. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE AND SLEEVE INSTALLATION WITH STRUCTURAL.
3. ROUTE SANITARY LINE UP INTO WALL ABOVE TO AVOID STRUCTURAL FOOTING. COORDINATE LOCATION WITH STRUCTURAL.
4. COORDINATE WITH STRUCTURAL FOR ROUTING 2" SANITARY BRANCH LINE ABOVE FOOTING AND UP INTO WALL ABOVE FOR FIXTURE.
5. PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY LINE THRU STRUCTURAL FOOTING. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE AND SLEEVE INSTALLATION WITH STRUCTURAL.
6. PROVIDE PVC PIPE SLEEVE FOR WATER LINE UP THRU CONCRETE FLOOR. STUB SLEEVE UP 2" AFF. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE AND SEAL SLEEVE OPENINGS WATERTIGHT.
7. ROUTE 4" SANITARY LINE UP ABOVE STRUCTURAL FOOTING. COORDINATE WITH STRUCTURAL. INSTALL HEAT TAPE AND INSULATE SANITARY MAIN FROM EXTERIOR CLEANOUT TO 10'-0" INSIDE BUILDING.
8. INSTALL HEAT TAPE AROUND P-TRAP, BRANCH LINE TO SANITARY MAIN AND INSULATE LINES.
9. ROUTE SANITARY LINE ABOVE STRUCTURAL FOOTING. COORDINATE ROUTING WITH STRUCTURAL.

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06-30-23

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REVISION DATES

SHEET TITLE
PLUMBING BG PLAN

SHEET NUMBER
P101

SALASO'BRIEN
expect a difference
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CA#:7058 EXPIRATION DATE: 6/30/2023
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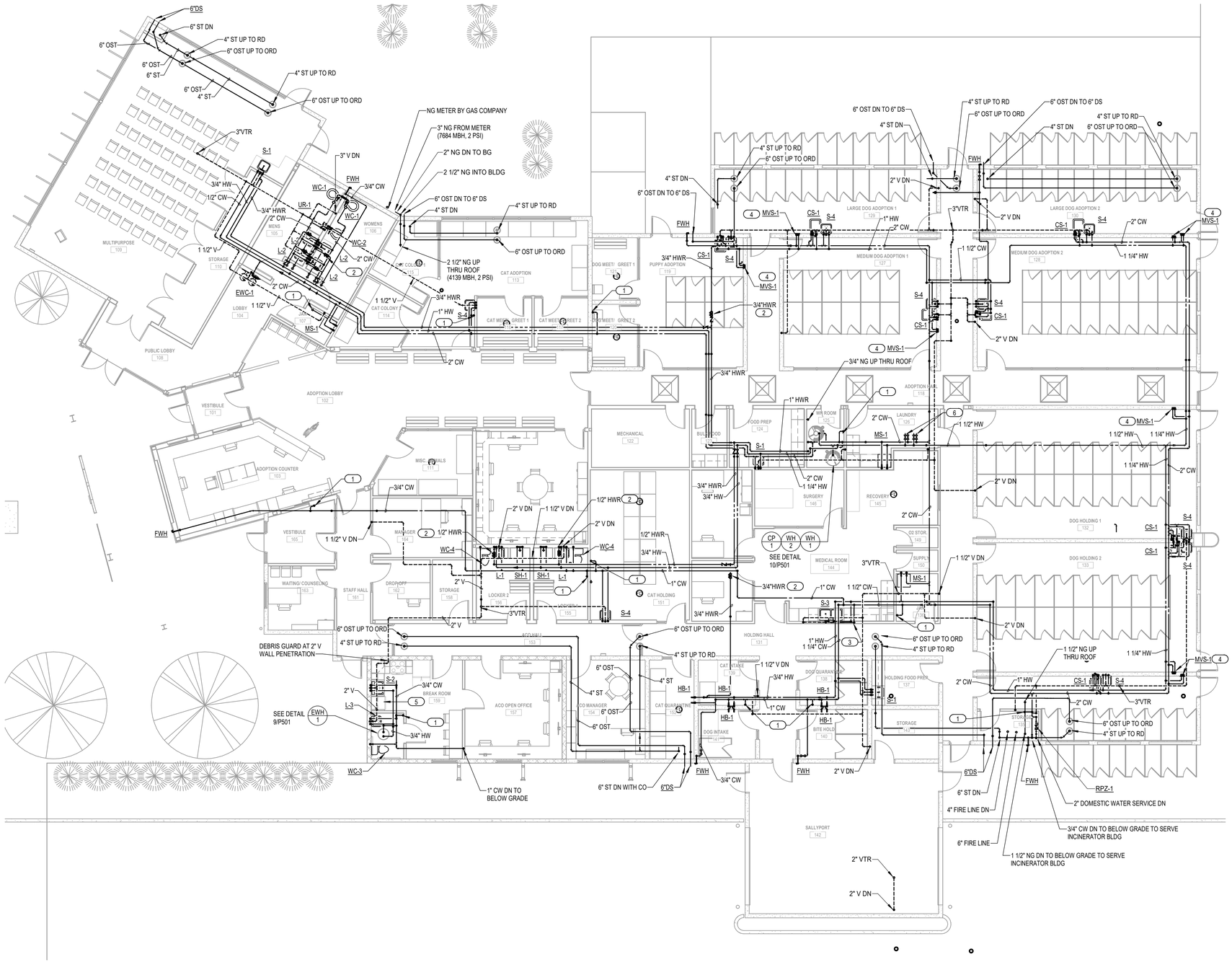

1 PLUMBING AG PLAN

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR ROUGH-IN SIZES AND ISOMETRIC SHEET P401 FOR ADDITIONAL PIPE SIZES.
4. INSULATE ALL DOMESTIC WATER AND STORM PIPES ABOVE FLOOR.
5. INSTALL PIPE SLEEVE AT FLOOR PENETRATIONS OF DOMESTIC WATER AND FIRE LINE. INSTALL FOAM PIPE INSULATIONON PIPES IN SLEEVE. SEAL SLEEVE WATERTIGHT ON BOTH ENDS.
6. REFER TO GENERAL PLUMBING NOTES ON SHEET P000.
7. PLUMBING FIXTURE WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE TYPE "L" WITH SUPPORT BRACKET FASTENED TO WALL STUDS.
8. INSTALL CEILING ACCESS PANEL FOR BALL VALVES ABOVE HARD CEILINGS. COORDINATE INSTALLATION WITH GC.

KEYED NOTES

1. ROUTE 1/2" CW TO TRAP PRIMER VALVE ASSEMBLY ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE 1/2" CW LINES FROM UNIT DOWN IN WALL TO BELOW FLOOR AND ROUTE TO FLOOR DRAINS. SEE DETAIL 1/P501.
2. INSTALL THERMOSTATIC BALANCING VALVE (TBV-1) IN 1/2" HWR LINE OR TBV-2 IN 3/4" HWR LINE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
3. DROP 1/2" CW AND 1/2" HW LINES DOWN IN WALL AND OFFSET HORIZONTALLY THRU WALL TO SINK TO AVOID WINDOW ABOVE SINK. COORDINATE ROUTING WITH ALL TRADES ON SITE TO AVOID CONFLICTS.
4. ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO MIXING VALVE STATION CABINET (MVS-1) INCLUDES THERMOSTATIC MIXING VALVE, HAMMER ARRESTOR, SOLENOID VALVE WITH TIMER, VACUUM BREAKER AND 1/2" TEMPERED WATER OUTLET. ROUTE 1/2" OUTLET LINE DOWN IN WALL TO BELOW FLOOR THEN INTO HIGH TRENCH DRAIN END CAP. SEE DETAIL 11/P501.
5. DISHWASHER FURNISHED BY OTHERS AND INSTALLED BY PC. PROVIDE 1/2" HW FROM SINK WITH BALL VALVE AND HAMMER ARRESTOR TO DISHWASHER. ROUTE DRAIN LINE TO SINK DRAIN TAILPIEICE.
6. PROVIDE 3/4" CW AND 3/4" HW BRANCH LINES WITH BALL VALVES FOR WASHING MACHINES (2 MACHINES). PROVIDE FLEXIBLE SUPPLY LINES AND WATER HAMMER ARRESTORS. COORDINATE WITH WASHING MACHINE SUPPLIER FOR FINAL UNIT CONNECTION.

MOORE ANIMAL SHELTER
1316 SE 34TH STREET.
MOORE, OK 73160

LICENSED PROFESSIONAL ENGINEER
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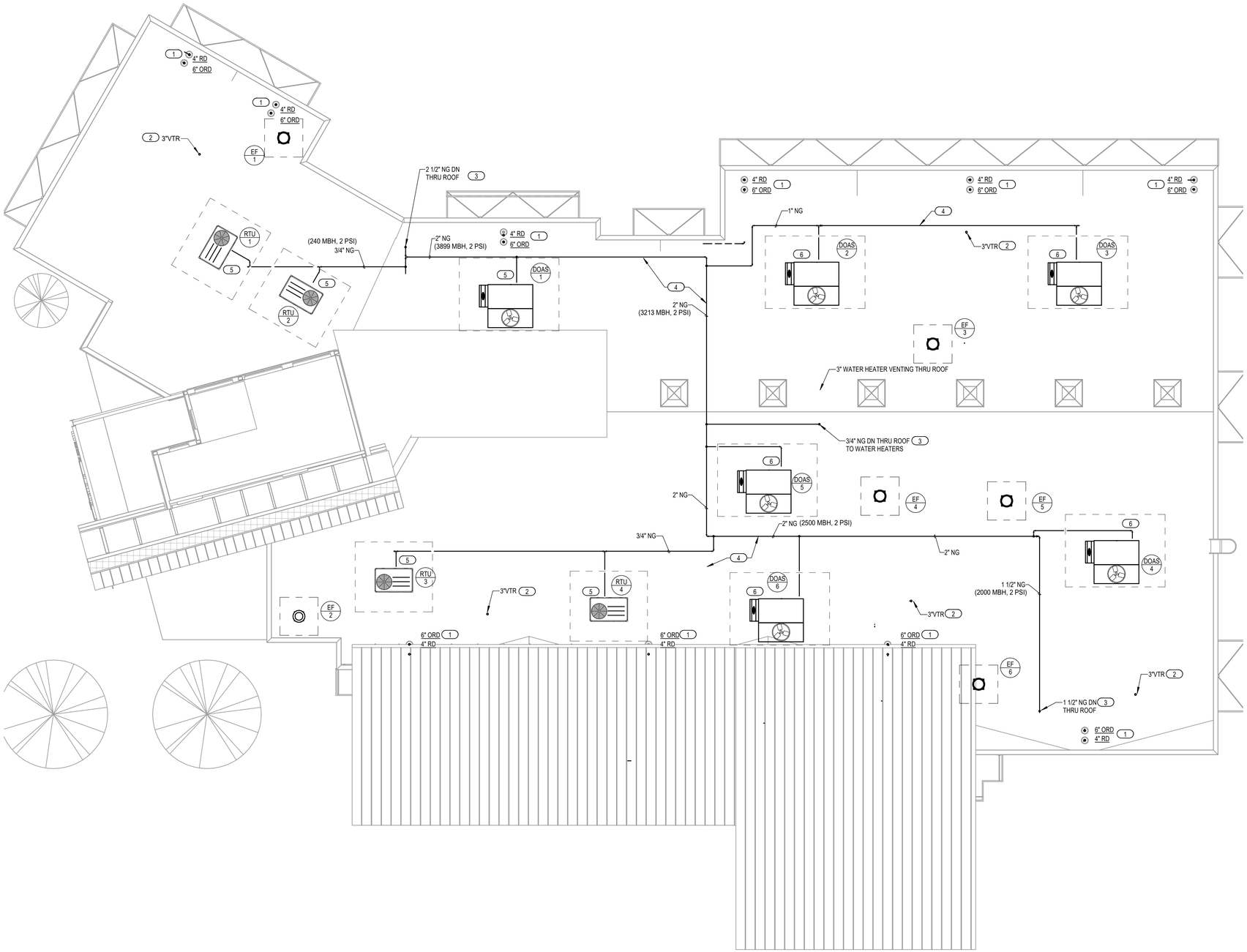
06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
6/7/2022
REVISION DATES

SHEET TITLE
PLUMBING AG PLAN

SHEET NUMBER
P201

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
PROJECT NUMBER: 2020-61064-00



1 PLUMBING ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL TRADES ON SITE.
2. ALL EXTERIOR ABOVE GRADE NATURAL GAS PIPE SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED AND PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.
3. ALL GAS PIPING SHALL COMPLY WITH INTERNATIONAL FUEL GAS CODE AND LOCAL CODES.
4. GAS PIPE IDENTIFICATION SHALL BE THE WORDS "NATURAL GAS" IN BLACK LETTERS AT 5'-0" INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.

KEYED NOTES

1. COORDINATE ROOF DRAIN INSTALLATION WITH STRUCTURAL AND ROOFING CONTRACTORS.
2. COORDINATE PLUMBING VENT THRU ROOF INSTALLATION WITH ROOFING CONTRACTOR. INSTALL VENTS A MINIMUM 10'-0" FROM ANY OPENINGS, EQUIPMENT OR OTHER VENTS.
3. COORDINATE NATURAL GAS PIPE PENETRATION THRU ROOF WITH ROOFING CONTRACTOR. PROVIDE WEATHER-PROOF BOOT JACK AT ROOF PENETRATION.
4. INSTALL NATURAL GAS PIPING ON ROOF PIPE SUPPORTS FROM MIRO INDUSTRIES MODEL 3-RAH-7 OR APPROVED EQUAL. INSTALL SUPPPORTS AT MAZIMUM OF 10'-0" ON CENTERS FOR ALL 1 1/4" OR LARGER PIPING. INSTALL AT 8'-0" ON CENTERS FOR 1" OR 3/4" PIPING. INSTALL AT 6'-0" ON CENTERS FOR 1/2" PIPING. REFER TO GENERAL NOTES FOR PAINTING GAS PIPING. SEE DETAIL X/P5.1 FOR ROOF PIPE SUPPORT.
5. ROUTE 1/2" NATURAL GAS (2 PSI) BRANCH LINE TO RTU. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR, UNION AND FINAL RTU CONNECTION. PROVIDE GAS PIPE ROOF SUPPORTS. REFER TO GAS LOAD TABLE FOR REGULATOR SIZE. COORDINATE RTU CONNECTION WITH MC. SEE DETAIL 8/P501.
6. ROUTE 3/4" NATURAL GAS (2 PSI) BRANCH LINE TO DOAS UNIT. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR, UNION AND FINAL RTU CONNECTION. PROVIDE GAS PIPE ROOF SUPPORTS. REFER TO GAS LOAD TABLE FOR REGULATOR SIZE. COORDINATE RTU CONNECTION WITH MC. SEE DETAIL 8/P501.

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PLUMBING
PLAN - ROOF

SHEET NUMBER
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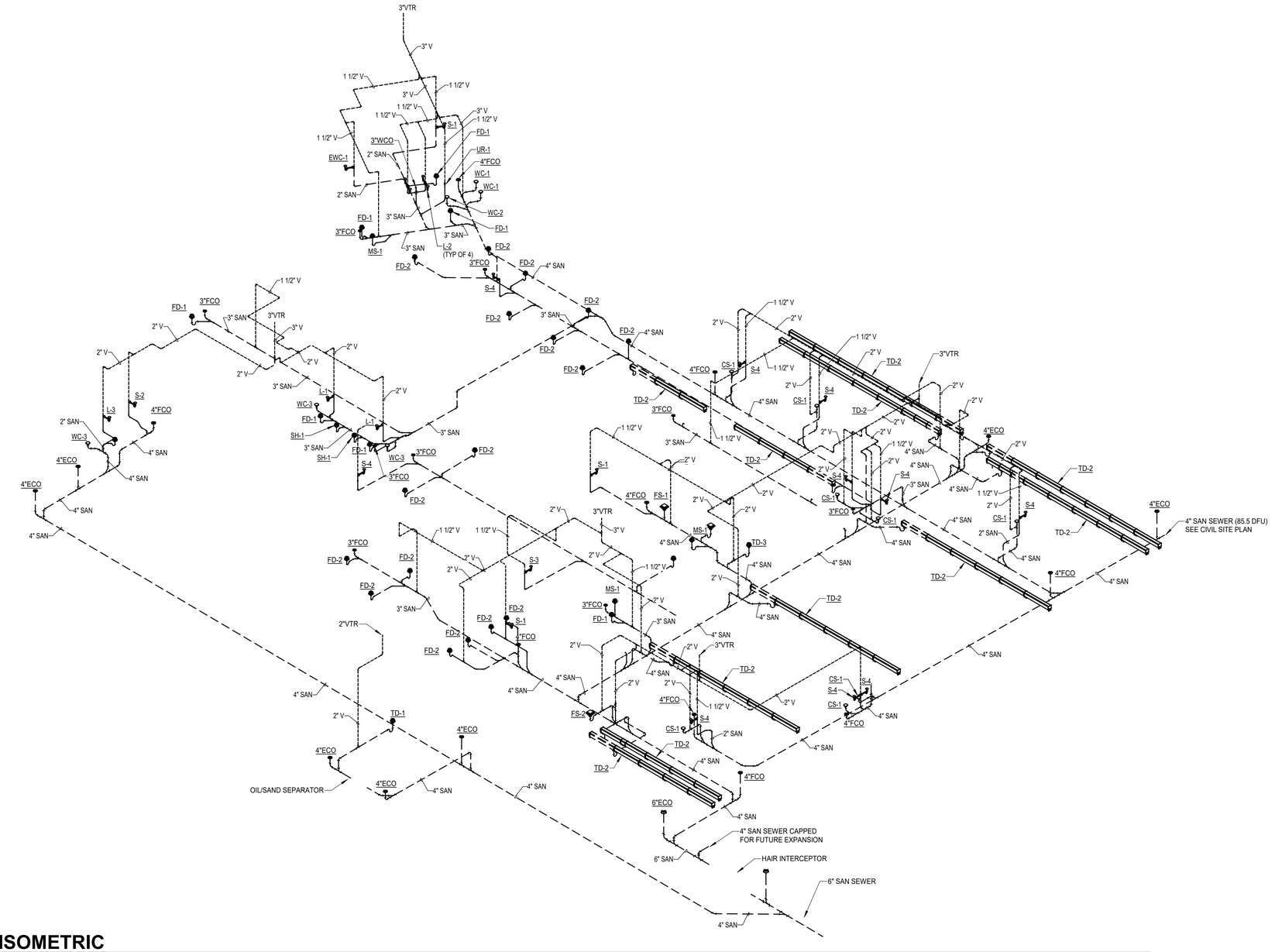

1 SANITARY PLUMBING ISOMETRIC

NOT TO SCALE

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SHEET TITLE
PLUMBING ISOMETRIC PLAN

SHEET NUMBER
P401

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expect a difference
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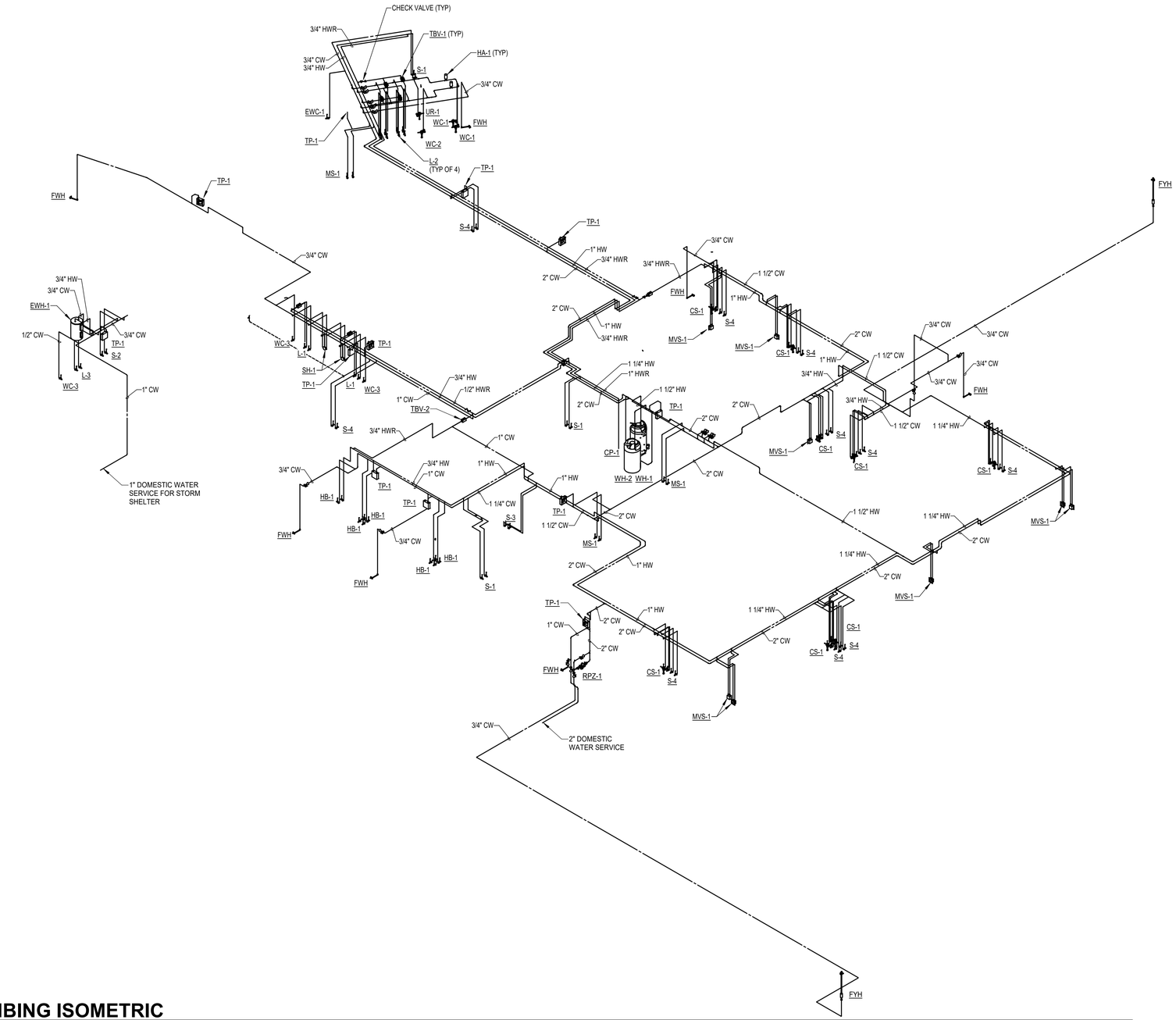

1 WATER PLUMBING ISOMETRIC

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SHEET TITLE
PLUMBING ISOMETRIC PLAN

SHEET NUMBER
P402

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CA#:7058 EXPIRATION DATE: 6/30/2023
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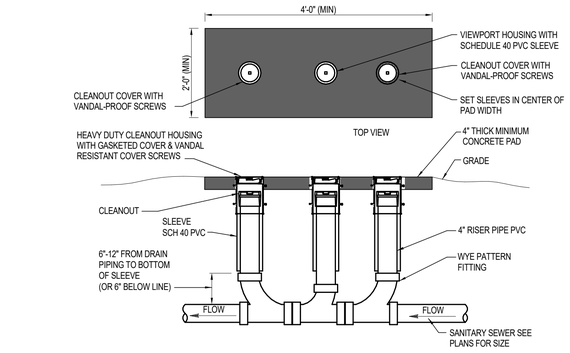
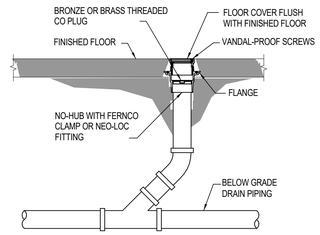
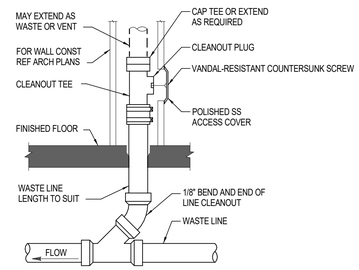


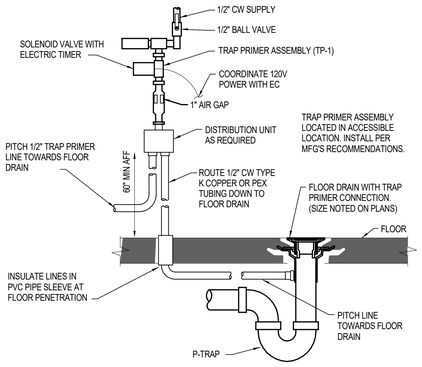
4 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



3 INTERIOR CLEANOUT DETAIL
NOT TO SCALE

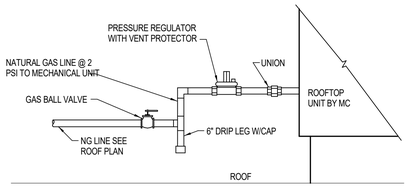


2 WALL CLEANOUT DETAIL
NOT TO SCALE



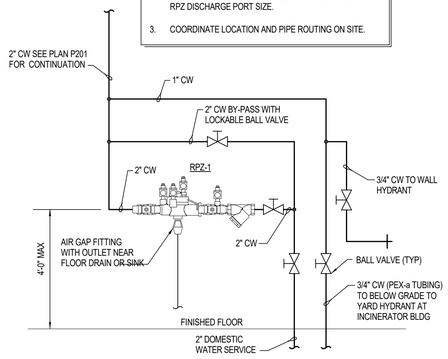
1 FLOOR DRAIN WITH TRAP PRIMER DETAIL
NOT TO SCALE

NOTES:
1. INSTALL PRESSURE REGULATOR PER MANUFACTURERS RECOMMENDATIONS. PROVIDE GAS REGULATOR VENT PROTECTOR. REFER TO GAS LOAD TABLE FOR REGULATOR SIZE.
2. PROVIDE ROOF PIPE SUPPORTS FOR NATURAL GAS PIPING.
3. PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK IRON. REFER TO SPECIFICATIONS FOR PAINTING PIPING YELLOW.
4. COORDINATE FINAL CONNECTION TO UNIT WITH MC.



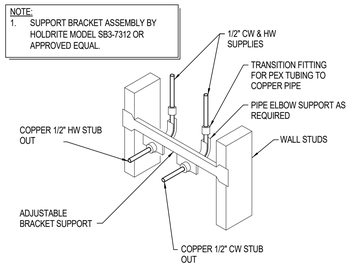
8 TYPICAL GAS CONNECTION DETAIL
NOT TO SCALE

NOTE:
1. PROVIDE ADEQUATE CLEARANCE ABOVE THE UNIT FOR THE OPERATION OF VALVES AND AROUND THE UNIT FOR REPAIR AND TESTING.
2. THE MINIMUM DRAIN PIPING SIZE SHALL BE SAME AS RPZ DISCHARGE PORT SIZE.
3. COORDINATE LOCATION AND PIPE ROUTING ON SITE.

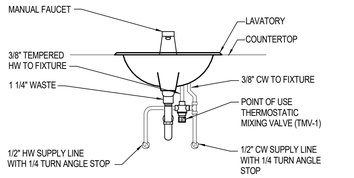


7 WATER SERVICE PIPE DETAIL
NOT TO SCALE

NOTE:
1. SUPPORT BRACKET ASSEMBLY BY HOLDRITE MODEL SB3-7312 OR APPROVED EQUAL.

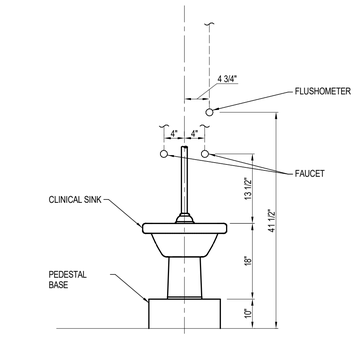


6 WATER SUPPLY STUB OUT DETAIL
NOT TO SCALE



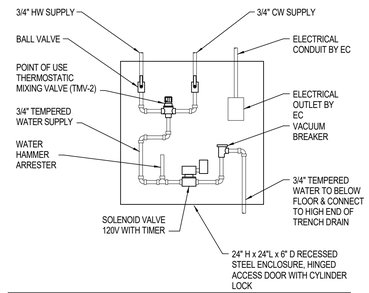
NOTE:
1. ALL EXPOSED PIPE SHALL BE POLISHED CHROME PLATED BRASS AND TRIMMED WITH POLISHED CHROME SHALLOW ESCUTCHEONS.
2. INSTALL TRUEBRO LAV GUARD2 OR EQUAL PIPING COVERS ON ALL EXPOSED PIPING.
3. WALL MOUNTED LAVATORIES ARE SIMILAR.
4. VERIFY LAVATORY HEIGHTS FOR EACH AREA WITH ARCHITECTURAL PLANS.

5 LAVATORY W/ MIXING VALVE DETAIL
NOT TO SCALE



NOTE:
FLUSH VALVE HANDLE SHALL BE INSTALLED ON WIDE SIDE ACCESS OF CLINICAL SINK (ROUGH-IN WATER ACCORDINGLY). VERIFY ALL MEASUREMENTS WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

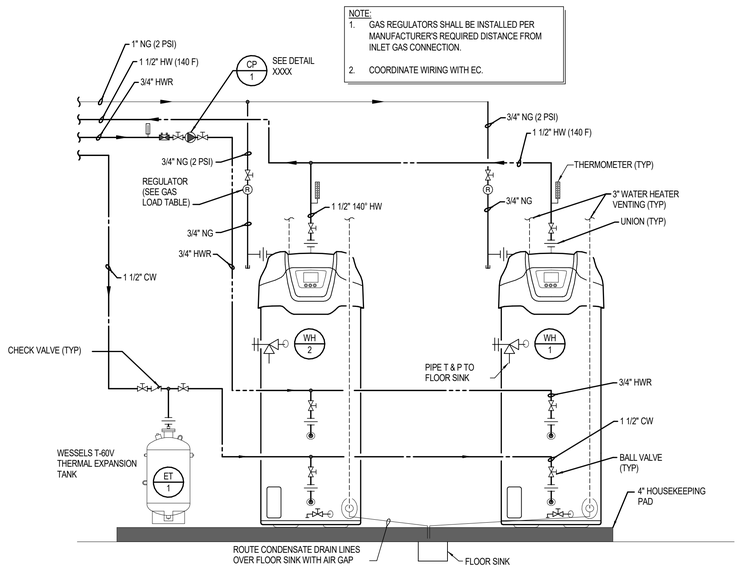
12 CLINICAL SINK DETAIL
NOT TO SCALE



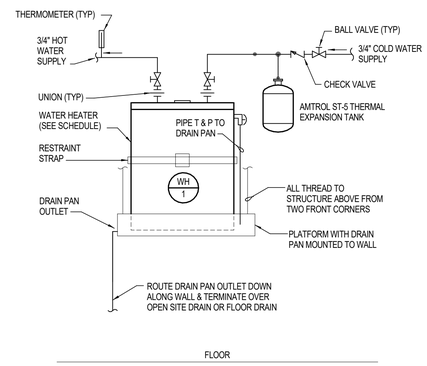
NOTE:
1. MOUNT IN WALL WITH BOTTOM AT APPROXIMATELY 48" AFF. COORDINATE LOCATION WITH GC.
2. CABINET AND ACCESS DOOR SHALL BE PAINTED WITH MARINE GRADE EPOXY PAINT TO MATCH WALL COLOR. COORDINATE PAINTING WITH GC.
3. TIMER SHALL BE SET TO OPERATE FOR 15 SECONDS EVERY 30 MINUTES. SOLENOID VALVE NORMALLY CLOSED, POWER OPEN.

11 TRENCH WASHDOWN DETAIL
NOT TO SCALE

NOTE:
1. GAS REGULATORS SHALL BE INSTALLED PER MANUFACTURER'S REQUIRED DISTANCE FROM INLET GAS CONNECTION.
2. COORDINATE WIRING WITH EC.



10 DUAL WATER HEATER DETAIL
NOT TO SCALE



9 WALL MOUNTED WATER HEATER DETAIL
NOT TO SCALE

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GAS LOAD TABLE

	INPUT(MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
WH-1	120	7"	MAXITROL 325-3L	2 PSI	1,2,7
WH-2	120	7"	MAXITROL 325-3L	2 PSI	1,2,7
RTU-1	120	7"	MAXITROL 325-3L	2 PSI	1,3,4,7
RTU-2	120	7"	MAXITROL 325-3L	2 PSI	1,3,4,7
RTU-3	100	7"	MAXITROL 325-3L	2 PSI	1,3,4,7
RTU-4	80	7"	MAXITROL 325-3L	2 PSI	1,3,4,7
DOAS-1	120	7"	MAXITROL 325-3L	2 PSI	1,3,4,7
DOAS-2	293	7"	MAXITROL 325-5L	2 PSI	1,3,4,7
DOAS-3	293	7"	MAXITROL 325-5L	2 PSI	1,3,4,7
DOAS-4	250	7"	MAXITROL 325-5L	2 PSI	1,3,4,7
DOAS-5	293	7"	MAXITROL 325-5L	2 PSI	1,3,4,7
DOAS-6	250	7"	MAXITROL 325-5L	2 PSI	1,3,4,7
INCINERATOR	2000	14"	REGULATOR FURNISHED WITH UNIT	2 PSI	1,5,7
EMERGENCY GENERATOR	3545	10"	MAXITROL 325-7AL	2 PSI	1,5,6,7
TOTAL LOAD	7684 MBH	LONGEST RUN: 450'			

NOTES:
1. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS. LOCATE REGULATOR IN ACCESSIBLE LOCATIONS.
2. PROVIDE INDOOR VENT LIMITER MAXITROL 12A09.
3. COORDINATE WITH MECHANICAL FOR REGULATOR LOCATION AND REQUIRED CONNECTION.
4. PROVIDE OUTDOOR VENT PROTECTOR MAXITROL 13A15 OR 13A15-5.
5. COORDINATE WITH UNIT PROVIDER FOR REGULATOR LOCATION AND REQUIRED CONNECTION.
6. PROVIDE OUTDOOR VENT PROTECTOR MAXITROL 13A25.
7. GAS PIPING SIZED AT INITIAL PRESSURE 2 PSI, PRESSURE DROP 1 PSI AND TOTAL LENGTH OF 450 FEET.

TRENCH DRAIN SCHEDULE

MARK	LOCATION	WIDTH	GRATE WIDTH	TRENCH MATERIAL	MANUFACTURER & MODEL NO.	GRATE TYPE	NOTES
TD-1	SALLY PORT	6"	4"	HDPE	ZURN Z886-HD-HPDE	DUCTILE IRON HEEL-PROOF	1,2,3
TD-2	KENNEL	6"	4"	STAINLESS STEEL	ZURN Z890-RPSC	S. S. PERFORATED	1,2,3,4
TD-3	WASHERS	17	12	HDPE	ZURN Z874-12-HDG-GG	FIBERGLASS	1,2,3

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE.
2. COORDINATE INSTALLATION WITH GC.
3. SEE DETAIL SHEET P501 FOR MORE INFORMATION.
4. KENNEL DRAIN: STUB TEMPERED WATER LINE THRU END CAP ON HIGH END OF TRENCH. SEAL CONNECTION WATER TIGHT.

GAS WATER HEATER SCHEDULE

MARK	LOCATION	TEMPERATURE RISE	RECOVERY GAL/HR	CAPACITY (GALLONS)	MBH INPUT MAX	AIR INTAKE	FLUE EXHAUST	MANUFACTURER & MODEL NO.
WH 1	RISER 109	90 DEG F (50F - 140F)	154	60	120	3"	3"	AO SMITH BTH-120
WH 2	RISER 109	90 DEG F (50F - 140F)	154	60	120	3"	3"	AO SMITH BTH-120

NOTES:
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATIONS. NATURAL GAS FIRED. PROVIDE CONCENTRIC VENT KIT.
2. COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. POWER SUPPLY TO UNIT 120V, 15 AMP.
3. SET TEMP AT 140° AND SUPPLY THERMOMETER ON HOT SIDE.
4. PROVIDE WESSEL TX-12 THERMAL EXPANSION TANK ON COLD WATER LINE.
5. PROVIDE HOUSEKEEPING PAD FOR WATER HEATER.
6. CIRCULATION PUMP CP-1 SERVES WATER HEATER WH-1 AND WH-2.
7. SEE DETAIL SHEET FOR MORE INFORMATION.

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	TEMPERATURE RISE	CAPACITY GALLONS	AMPS	ELEMENT KW	VOLTAGE	PHASE	MANUFACTURER & MODEL NO.	NOTES
EWH 1	ABOVE SHELTER R.R. CEILING	70 DEG @ 11 GPH	30	22	4.5	208	1	AO SMITH DEL-30	ALL

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. LOCATE ABOVE CEILING OF SHELTER RESTROOM.
2. SET OUTLET TEMPERATURE TO 120°F. VERIFY TEMPERATURE WITH OWNER.
3. PROVIDE AMTROL ST-5 THERMAL EXPANSION TANK ON COLD WATER LINE TO WATER HEATER.
4. PROVIDE HOLD RITE SUPPORT PLATFORM MODEL 50-SWHP-C AND 1/2" THREADED ROD WITH FASTENING HARDWARE.
5. COORDINATE WIRING WITH E.C.
6. SEE DETAIL SHEET P-501 FOR MORE INFORMATION.

CIRCULATION PUMP SCHEDULE

MARK	MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING TEMP (°F)	MOTOR				FLANGE SIZE (INCHES)	MATERIAL	MANUFACTURER & MODEL NO.
			ELECTRICAL CHAR	F.L. AMPS	HP	RPM			
CP 1	150 PSI	225	115/60/1	1.0	70 WATTS	VARIES	3/4"	STAINLESS STEEL	BELL & GOSSETT ECOCIRC 20-18

NOTES:
1. PROVIDE WATTS #IPF-S 3/4" FLANGE SET.
2. PROVIDE PROVIDE B & G #TC-1 TIMER KIT WITH AQUASTAT - SET TIMER PER OWNER'S REQUIREMENTS.
3. PUMP CP-1 SERVES WATER HEATER WH-1 & WH-2.
4. SEE DETAIL SHEET P501 FOR MORE INFORMATION.

HAIR/LINT INTERCEPTOR SCHEDULE

MARK	LOCATION	FLOW RATE (GPM)	LIQUID CAP. (GAL)	X CAP.(LBS)	STANDARD CONNECTION	DIMENSIONS (INCHES)			WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
						LENGTH	WIDTH	HEIGHT			
HI 1	EXTERIOR BELOW GRADE	100	500	-	4"	94	52	54	XXXX	PARK ENVIRONMENTAL LT-500	ALL

NOTES:
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE..
2. INSTALL BELOW GRADE INTERCEPTOR SO COVER IS FLUSH WITH FINISHED CONCRETE. PROVIDE EXTENSION RISER ASSEMBLIES AS REQUIRED AND HIGH WATER ANCHOR KIT. PROVIDE HEAVY DUTY ACCESS COVERS.
3. INSTALL INTERCEPTOR WITH REQUIRED CLEARANCES FOR ACCESS AND CLEANING.
4. SEE DETAIL SHEET P501 FOR MORE INFORMATION.

OIL/SAND INTERCEPTOR SCHEDULE

MARK	LOCATION	FLOW RATE (GPM)	LIQUID CAP. (GAL)	OIL CAP.(GAL)	STANDARD CONNECTION	DIMENSIONS (INCHES)			WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
						LENGTH	WIDTH	HEIGHT			
OI 1	EXTERIOR BELOW GRADE	15	150	75	4"	42	42	60	XXXX	PARK ENVIRONMENTAL CMP-150-15	ALL

NOTES:
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE..
2. INSTALL BELOW GRADE INTERCEPTOR SO COVER IS FLUSH WITH FINISHED CONCRETE. PROVIDE EXTENSION RISER ASSEMBLIES AS REQUIRED AND HIGH WATER ANCHOR KIT. PROVIDE HEAVY DUTY ACCESS COVERS.
3. INSTALL INTERCEPTOR WITH REQUIRED CLEARANCES FOR ACCESS AND CLEANING.
4. SEE DETAIL SHEET P501 FOR MORE INFORMATION.

MIXING VALVE STATION SCHEDULE

MARK	LOCATION	PIPE SIZE	MANUFACTURER & MODEL NO.	CABINET SIZE	PURPOSE
MVS-1	KENNEL WALL	3/4"	REFER TO NOTES	24"x24"x6"	KENNEL TRENCH WASH DOWN

NOTES:
1. RECESSED WALL STEEL CABINET WITH HINGED DOOR & CYLINDER LOCK. . CABINET FROM BEST ACCESS DOORS MODEL BTA-24-24 OR APPROVED EQUAL.
2. THERMOSTATIC MIXING VALVE, ASSE 1070 LISTED, LEAD-FREE BY WATTS MODEL LFMMV-M1 OR APPROVED EQUAL.
3. PISTON TYPE WATER HAMMER ARRESTOR, WATTS OR APPROVED EQUAL.
4. 120 VOLT SOLENOID VALVE WITH ELECTRIC TIMER, ASCO MODEL SC8210G095 WITH TIMER 272839-001 (NORMALLY CLOSED, POWER OPEN) OR APPROVED EQUAL. TIMER SET FOR 15 SECONDS ON & 30 MINUTES OFF.
5. VACUUM BREAKER, WATTS MODEL 288A OR APPROVED EQUAL.
6. COORDINATE WITH EC FOR 120 VOLT OUTLET MOUNTED IN CABINET.
7. INSTALL PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE.
8. COORDINATE INSTALLATION CABINET IN WALL WITH GC. COORDINATE PAINTING OF CABINET WITH GC.
9. SEE DETAIL SHEET P501 FOR MORE INFORMATION.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

MARK	LOCATION	SIZE	WATER TEMP	PRESSURE DROP	MANUFACTURER & MODEL NO.	ACCESSORIES	REMARKS
RPZ-1	STORAGE ROOM 135	2"	CW	12 PSI	WATTS 919QT-S	919AGC	MAIN WATER SERVICE
RPZ-2							

NOTES:
1. PLUMBING CONTRACTOR IS RESPONSIBLE TO CONDUCT A TEST ON VALVE PRIOR TO IT BEING PUT INTO SERVICE. PLUMBING CONTRACTOR SHALL SUBMIT REGISTRATION OF THE BACKFLOW PREVENTER TO THE CITY AFTER COMPLETION OF THE TEST.
2. INSTALL PER INTERNATIONAL PLUMBING CODE AND MANUFACTURER'S RECOMMENDATIONS.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
L-1	LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL, COLOR WHITE, 4" CENTER HOLES, PROVIDE SLOAN SENSOR FAUCET EFX-250-4-BAT-BDT-CP-0.5GPM-MLM-IR-FCT (BATTERY POWERED). MCGUIRE HD155WC OFFSET GRID STRAINER, 8902C P-TRAP & LFBV2165CCSS 1/4 TURN SUPPLY STOPS. TRUEBRO LAV GUARD2 #103 E-Z PIPE COVERS. REFER TO ARCHITECT'S PLANS FOR RIM HEIGHT.
L-2	LAVATORY (PUBLIC RESTROOM)	AMERICAN STANDARD	0476.028	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL, COLOR WHITE, 4" CENTER HOLES. PROVIDE SLOAN SENSOR FAUCET EFX-250-4-BAT-BDT-CP-0.5GPM-MLM-IR-FCT (BATTERY POWERED). MCGUIRE HD155WC OFFSET GRID STRAINER, 8902C P-TRAP & LFBV2165CCSS 1/4 TURN SUPPLY STOPS. TRUEBRO LAV GUARD2 #103 E-Z PIPE COVERS. COORDINATE COUNTERTOP OPENINGS WITH MILLWORK.
L-3	LAVATORY SHELTER RESTROOM	AMERICAN STANDARD	0355.012	WALL	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL, COLOR WHITE, 4" CENTER HOLES, PROVIDE CHICAGO FAUCET 420-ABCP MANUAL FAUCET. MCGUIRE HD155WC OFFSET GRID STRAINER, 8902C P-TRAP & LFBV2165CCSS SUPPLY STOPS W/ REMOVABLE KEY. TRUEBRO LAV GUARD2 #103 E-Z PIPE COVERS. REFER TO ARCHITECT'S PLANS FOR RIM HEIGHT.
WC-1	WATER CLOSET ADA	AMERICAN STANDARD	3461.001	FLOOR	1 1/4"	-	4"	2"	COLOR WHITE. PROVIDE SLOAN MODEL G2-8111-1.28 (1.28 GPF) BATTERY OPERATED SENSOR FLUSH VALVE. PROVIDE BEMIS SEAT MODEL 1655SSCT, OPEN FRONT ELONGATED, COLOR WHITE. ADA INSTALLATION. RIM HEIGHT 16-1/2".
WC-2	WATER CLOSET	AMERICAN STANDARD	3451.001	FLOOR	1 1/4"	-	4"	2"	COLOR WHITE. PROVIDE SLOAN MODEL G2-8111-1.28 (1.28 GPF) BATTERY OPERATED SENSOR FLUSH VALVE. PROVIDE BEMIS SEAT MODEL 1655SSCT, OPEN FRONT ELONGATED, COLOR WHITE. RIM HEIGHT 15".
WC-3	WATER CLOSET ADA TANK TYPE	AMERICAN STANDARD	215AA.105	FLOOR	1/2"	-	4"	-	RIGHT TRIP LEVER, COLOR WHITE, TANK TYPE, ELONGATED BOWL, 1.28 GPF. PROVIDE BEMIS SEAT MODEL1655SSCT, OPEN FRONT, ELONGATED, COLOR WHITE. PROVIDE WAX RING KIT. RIM HEIGHT = 16-1/2". ADA INSTALLATION.
WC-4	WATER CLOSET TANK TYPE	AMERICAN STANDARD	215CA.104	FLOOR	1/2"	-	4"	-	LEFT TRIP LEVER, COLOR WHITE, TANK TYPE, ELONGATED BOWL, 1.28 GPF. PROVIDE BEMIS SEAT MODEL1655SSCT, OPEN FRONT, ELONGATED, COLOR WHITE. PROVIDE WAX RING KIT. RIM HEIGHT = 15".
UR-1	URINAL ADA	AMERICAN STANDARD	6590.001	WALL	3/4"	-	2"	1 1/2"	COLOR WHITE. PROVIDE SLOAN G2 8186-0.5 BATTERY POWERED SENSOR FLUSH VALVE. ZURN WALL SUPPORT CARRIER Z1222. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT AND WALL TYPE. ADA INSTALLATION.
S-1	SINK	ELKAY	LRAD1919603	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL, STAINLESS STEEL, 6." DEPTH, 3 FAUCET HOLES. PROVIDE ELKAY LK35 DRAIN STRAINER. PROVIDE MOEN 8799 GOOSENECK FAUCET. PROVIDE MCGUIRE 8912 P-TRAP, LFBV2165CCSS SUPPLY STOPS. INSTALL TMV-1 BELOW FIXTURE.
S-2	SINK BREAK ROOM	ELKAY	LRAD2219654	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL, STAINLESS STEEL, 6.5" DEPTH, 4 FAUCET HOLES, PROVIDE ELKAY LK35 S.S. DRAIN BASKET. PROVIDE MOEN 8799 GOOSENECK FAUCET. PROVIDE MCGUIRE 8912 P-TRAP, LFBV2165 SERIES SUPPLY STOPS, INSTALL TMV-1 BELOW FIXTURE. PROVIDE ELKAY LK105 AIR GAP, DRAIN TAILPIECE WITH DISHWASHER CONNECTION.
S-3	SINK MEDICAL ROOM	ELKAY	LR3321	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	DOUBLE BOWL, S.S. , 8" DEPTH, 3 FAUCET HOLES (2" O.C.). PROVIDE ELKAY LK35 S.S. DRAIN BASKET. PROVIDE SLOAN FAUCET ETF-700-4-PLG-BDT-CP-2.2GPM-LAM-IR-BT-FCT. SENSOR OPERATED WITH PLUG-IN POWER. PROVIDE MCGUIRE 8912 P-TRAP & LFBV2165 SERIES 1/4 TURN SUPPLY STOPS. COORDINATE OUTLET WITH EC.
S-4	KENNEL SINK	ELKAY	ESS21182	WALL	1/2"	1/2"	1 1/2"	1 1/2"	STAINLESS STEEL SINK WITH BACKSPLASH . PROVIDE ELKAY FAUCET LK940BP03L2H, LK35 STRAINER, P-TRAP. PROVIDE MCGUIRE LFBV2165 SUPPLY STOPS. INSTALL TMV-1 BELOW FIXTURE. PROVIDE WATTS 8A BACKFLOW PREVENTER
CS-1	CLINICAL SINK	AMERICAN STANDARD	9504.999.020	FLOOR	1 1/2"	3/4"	4"	2"	COLOR WHITE. PROVIDE AMERICAN STANDARD PEDESTAL BASE 71009-201.081, FRONT & SIDE RIM GUARDS 7832504075. PROVIDE SLOAN ROYAL FLUSH VALVE 117, CHICAGO FAUCETS 815-VBCP FAUCET WITH WATTS 8A-C VACUUM BREAKER. SEE DETAIL 12/P501.
MS-1	MOP SINK	FIAT	TSB-3000 24x24x12	FLOOR	1/2"	1/2"	3"	1 1/2"	PROVIDE FIAT 832AA HOSE & BRACKET, 889-CC MOP BRACKET, MSG 2424 SS WALL GUARDS. CHICAGO FAUCET MODEL 897-CCP, PROVIDE CHECK VALVES ON HOT & COLD WATER BRANCH PIPING SERVING MOP SINK.
EWC-1	ELECTRIC WATER COOLER	ELKAY	LZSTL8WSSK	WALL	1/2"	-	1 1/2"	1 1/2"	DUAL LEVEL, STAINLESS STEEL, BOTTLE FILL STATION ON LOWER UNIT, FILTERED, REFRIGERATED, PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. PROVIDE CANE APRON LKAPREZL & WALL CARRIER ELKAY MLP200. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.
SH-1	ADA SHOWER	BRADLEY	SEE REMARKS	WALL	1/2"	1/2"	2"	—	SHOWER ENCLOSURE & GRAB BARS BY GC. PROVIDE BRADLEY SHOWER SYSTEM 1C-HD-B-A24-DV WITH SHOWER VALVE, DIVERTER VALVE, SHOWER HEAD, HAND WAND WITH BRACKET, 60" HOSE, 24" SLIDE BAR & VACUUM BREAKER. PROVIDE ZURN FLOOR DRAIN. COORDINATE TRIM & DRAIN LOCATIONS WITH GC. ADA INSTALLATION.
RD	ROOF DRAIN	ZURN	ZC100-DP-EA	ROOF	-	-	SEE PLANS	-	15" DIAMETER DRAIN, LOW SILHOUETTE, CAST IRON DOME, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ADJUSTABLE EXTENSION ASSEMBLY, UNDERDECK CLAMP, SUMP RECEIVER.
ORD	OVERFLOW ROOF DRAIN	ZURN	ZC100-DP-EA	ROOF	-	-	SEE PLANS	-	SAME AS ROOF DRAIN WITH 2" HIGH EXTERNAL WATER DAM..
DS	DOWNSPOUT	ZURN	Z199	WALL	-	-	SEE PLANS	-	NICKEL BRONZE BODY, NO-HUB INLET, DECORATIVE WALL FLANGE & OUTLET NOZZLE.
FD-1	FLOOR DRAIN	ZURN	ZN415-6BZ-P-VP	FLOOR	-	-	2"	-	6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN (STAINLESS STEEL)	ZURN	ZS415-6BZ-P-VP	FLOOR	-	-	2"	-	6" ROUND STAINLESS STEEL STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	ZURN	ZN1910-KC-2-23	FLOOR	-	-	3"	-	8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, 1/2 GRATE, SEDIMENT BUCKET, ANCHOR FLANGE. INSTALL TRAP GUARD.
FS-2	FLOOR SINK	ZURN	ZN1900-KC-23	FLOOR	-	-	4"	-	12"x12" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, FULL GRATE, SEDIMENT BUCKET, ANCHOR FLANGE. INSTALL TRAP GUARD.
FCO	FLOOR CLEANOUT	ZURN	ZN1400-SZ-K-VP	FLOOR	-	-	SEE PLANS	-	ADJUSTABLE HEIGHT, CAST IRON BODY, ANCHOR FLANGE, SCORIATED SQUARE TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS.
WCO	WALL CLEANOUT	ZURN	Z1445-VP	WALL	—	—	SEE PLANS	—	CAST IRON CLEANOUT TEE, THREADED BRASS PLUG, PROVIDE ZS1469-VP STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW .
ECO	EXTERIOR CLEANOUT	ZURN	Z1474-N-SG-VP	GRADE	—	—	SEE PLANS	—	CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURED GASKETED COVER WITH CLEANOUT FERRULE WITH BRASS PLUG. VANDAL PROOF SCREWS.
BWV	SANITARY BACKWATER VALVE	RECTORSEAL	97034	GRADE	—	—	4"	—	PVC BODY, FLAPPER WITH EXTENSION AND CAP. PROVIDE PVC SLEEVE TO FLUSH WITH FINISH GRADE. FIELD VERIFY DEPTH OF ACCESS HOUSING. ASSEMBLY MEETS IPC CODES. SEE DETAIL SHEET P501.
HA-1	HAMMER ARRESTOR	WATTS	LF15M2	PIPE	VARIES	—	-	-	LEAD-FREE CONSTRUCTION, PDI WH201 LISTED, PRE-CHARGED, PERMANENT SEALED AIR CHAMBER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
AP-1	ACCESS PANEL	ACUDOR	UF-5000 14x14 CLSS	WALL	-	-	-	-	14"x14" STEEL, 16 GAGE DOOR & FRAME, 18 GAGE FRAME. CONCEALED HINGE, CYLINDER LOCK & KEY, STAINLESS STEEL FINISH. CONCEALED FASTENING POINTS.
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFMMV-M1	BELOW FIXTURE	1/2"	1/2"	-	-	LEAD FREE MIXING VALVE WITH ADJUSTABLE TEMPERATURE SET-POINT & LOCKABLE, INTEGRAL CHECK STOPS & STRAINERS, 1/2" INLETS & OUTLET. SET OUTLET TEMP AT 105 DEGREES F. ASSE 1070 LISTED.
WB-1	WATER BOX	SIOUX CHIEF	696RG1010PF	WALL	1/2"	-	-	-	FIRE-RATED RECESSED WALL ABS BOX WITH FACE PLATE, 1/2" QUARTER TURN BALL VALVES WITH INTEGRAL WATER HAMMER ARRESTOR, 3/8" OUTLET.
LB-1	LAUNDRY BOX	SIOUX CHIEF	696RG2313PF	WALL	1/2"	1/2"	2"	1 1/2"	FIRE-RATED RECESSED WALL BOX, 1/2" QUARTER TURN BALL VALVES WITH INTEGRAL WATER HAMMER ARRESTORS, 2" WASTE OUTLET. SERVES ICE/WATER MACHINE.
TBV-1	THERMOSTATIC BALANCING VALVE	CALEFFI	116141AC	PIPE	-	1/2"	-	-	LOW LEAD BRASS BODY, ADJUSTABLE OUTLET TEMPERATURE RANGE WITH ADJUSTING KNOB, CHECK VALVE, TEMPERATURE GAUGE, PROVIDE BALL VALVES ON BOTH SIDES OF VALVE, COORDINATE HOT RETURN WATER TEMPERATURE WITH BUILDING OWNER.
TBV-2	THERMOSTATIC BALANCING VALVE	CALEFFI	116151AC	PIPE	-	3/4"	-	-	LOW LEAD BRASS BODY, ADJUSTABLE OUTLET TEMPERATURE RANGE WITH ADJUSTING KNOB, CHECK VALVE, TEMPERATURE GAUGE, PROVIDE BALL VALVES ON BOTH SIDES OF VALVE, COORDINATE HOT RETURN WATER TEMPERATURE WITH BUILDING OWNER.
TP-1	TRAP PRIMER	SIOUX CHIEF	695-ES01	PIPE	1/2"	—	-	-	CONTROL TIMER, SOLENOID VALVE, HAMMER ARRESTOR, AIR GAP, 1/2" INLET, DISTRIBUTION UNIT WITH 2 OUTLETS. ASSE 1044 LISTED. INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE 120V POWER WITH EC.
FWH	FREEZELESS WALL HYDRANT	WOODFORD	B65	WALL	3/4"	-	-	-	CONCEALED BOX TYPE WITH HINGED DOOR, CHROME FINISH, ASSE STANDARD 1019, INSTALL AT MINIMUM 18" ABOVE GRADE, GIVE HYDRANT KEY TO OWNER.
FRH	FREEZELESS ROOF HYDRANT	WOODFORD	SRH-MS	ROOF	3/4"	-	-	-	FREEZELESS HYDRANT, ROOF MOUNTING ASSEMBLY & SUPPORT, THREADED HOSE OUTLET WITH DUAL CHECK BFP ASSE 1052. NO DRAIN LINE REQUIRED. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.
HB-1	HOSE BIB	SUPER KLEAN	3600BM-B-T	WALL	3/4"	3/4"	-	-	HOSE STATION WITH 3/4" BALL VALVES, THERMOMETER, WALL MOUNT BRACKET, THREADED 3/4" OUTLET & STAINLESS STEEL HOSE HANGER. PROVIDE 3/4" NPT TO THREADED HOSE CONNECTION FITTING WITH WATTS LFN9-CD BFP (ASSE 1052).
FYH	FREEZELESS YARD HYDRANT	WOODFORD	MODEL Y2	GRADE	3/4"	-	-	-	NON-POTABLE WATER HYDRANT, THREADED HOSE OUTLET WITH DUAL CHECK BACK FLOW PREVENTER ASSE 1052. BURY DEPTH 3 FEET.

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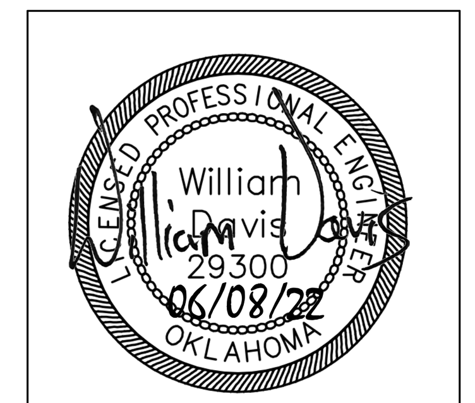
PROJECT NUMBER: 2020-61064-00

MOORE ANIMAL SHELTER
1316 SE 34TH STREET.
MOORE, OK 73160



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06-30-23

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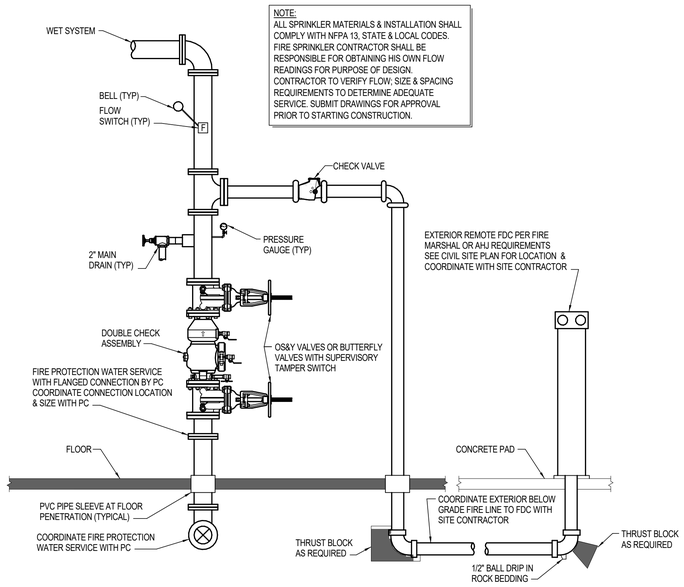
SHEET TITLE
PLUMBING SCHEDULES SHEET

SHEET NUMBER
P601



1 FIRE SPRINKLER RISER DETAIL
NOT TO SCALE

FIRE PROTECTION ABBREVIATIONS

AG	ABOVE GRADE	FT	FOOT (FEET)
ADD	ADDENDUM	GAL	GALLON
ADDL	ADDITIONAL	GC	GENERAL CONTRACTOR
ADJ	ADJUSTABLE	GPM	GALLONS PER MINUTE
AFF	ABOVE FINISH FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISH GRADE	MECH	MECHANICAL
ALT	ALTERNATE	MIN	MINIMUM
BG	BELOW GRADE	NTS	NOT TO SCALE
CI	CAST IRON	PC	PLUMBING CONTRACTOR
COL	COLUMN	PLBG	PLUMBING
CW	COLD WATER	QTY	QUANTITY
DN	DOWN	SCH	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SPEC	SPECIFICATIONS
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FDC	FIRE DEPARTMENT CONNECTION	TEMP	TEMPERATURE
FLR	FLOOR	TYP	TYPICAL
FP	FIRE PROTECTION	W/	WITH

FIRE PROTECTION SYMBOL LEGEND

	SHUTOFF VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	END CAP
	FIRE DEPARTMENT CONNECTION(FDC)
	BELL

FIRE PROTECTION PIPING LINETYPES

LINETYPE	DESCRIPTION
	NEW - ABOVE GRADE
	NEW - BELOW GRADE

FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DESIGN FOR SPRINKLER SYSTEMS FOR NEW ANIMAL SHELTER BUILDING. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE CODE PLAN, SPACE TYPES, CEILING HEIGHTS AND TYPES.
2. COORDINATE INSTALLATION OF SPRINKLER PIPING AND ALL COMPONENTS WITH OTHER TRADES, OWNER, AND GENERAL CONTRACTOR.
3. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, INSURANCE CARRIER AND ALL APPLICABLE STATE AND LOCAL CODES.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
5. PROVIDE MINIMUM 10 % SAFETY FACTOR.
6. WORKING DRAWINGS INDICATING SPRINKLER HEAD LOCATIONS AND EXPOSED AND CONCEALED PIPING ROUTING SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION FOR APPROVAL.
7. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ORGANIZING A COORDINATION MEETING WITH OTHER TRADES AND OWNER PRIOR TO INSTALLATION.
8. SYSTEM PIPING LOCATION: WET SYSTEM PIPING SHALL BE INSTALLED AT HIGHEST ELEVATION POSSIBLE. PIPING SHALL BE INSTALLED ABOVE ALL MECHANICAL EQUIPMENT, DUCTWORK, AND ALL PLUMBING SYSTEM PIPING. PROVIDE ADEQUATE CLEARANCE TO MECHANICAL UNITS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE FIRE PROTECTION PIPING PRIOR TO INSTALLATION.
9. PROPERLY TORQUE MECHANICAL TEES TO MANUFACTURER'S RECOMMENDATIONS.
10. FIRE PROTECTION PLANS ARE FOR REFERENCE ONLY. OCCUPANCIES AND AREAS OF PROTECTION NOTED ON THE PLANS SHALL BE CONFIRMED WITH NFPA 13 AND AUTHORITIES HAVING JURISDICTION. THIS CONTRACTOR SHALL COMPLY WITH ANY CODE REQUIREMENTS AS REQUIRED.
11. FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
12. STORM SHELTER - LIGHT HAZARD CLASS UNLESS NOTED BY KEYED NOTES FOR HIGHER RATING.
13. COORDINATE LOCATION OF REMOTE FIRE DEPARTMENT CONNECTION WITH FIRE MARSHAL OR AHJ AND SITE CONTRACTOR.
14. PROVIDE GUARDS FOR FULLY EXPOSED UPRIGHT SPRINKLER HEADS.
15. RECESSED OR SEMI-RECESSED PENDANT SPRINKLER HEADS SHALL HAVE WHITE FINISH.
16. EXPOSED SPRINKLER HEADS SHALL HAVE BRASS FINISH.
17. PROVIDE DRY SPRINKLER HEADS AT SALLY PORT.

FIRE PROTECTION SHEET INDEX

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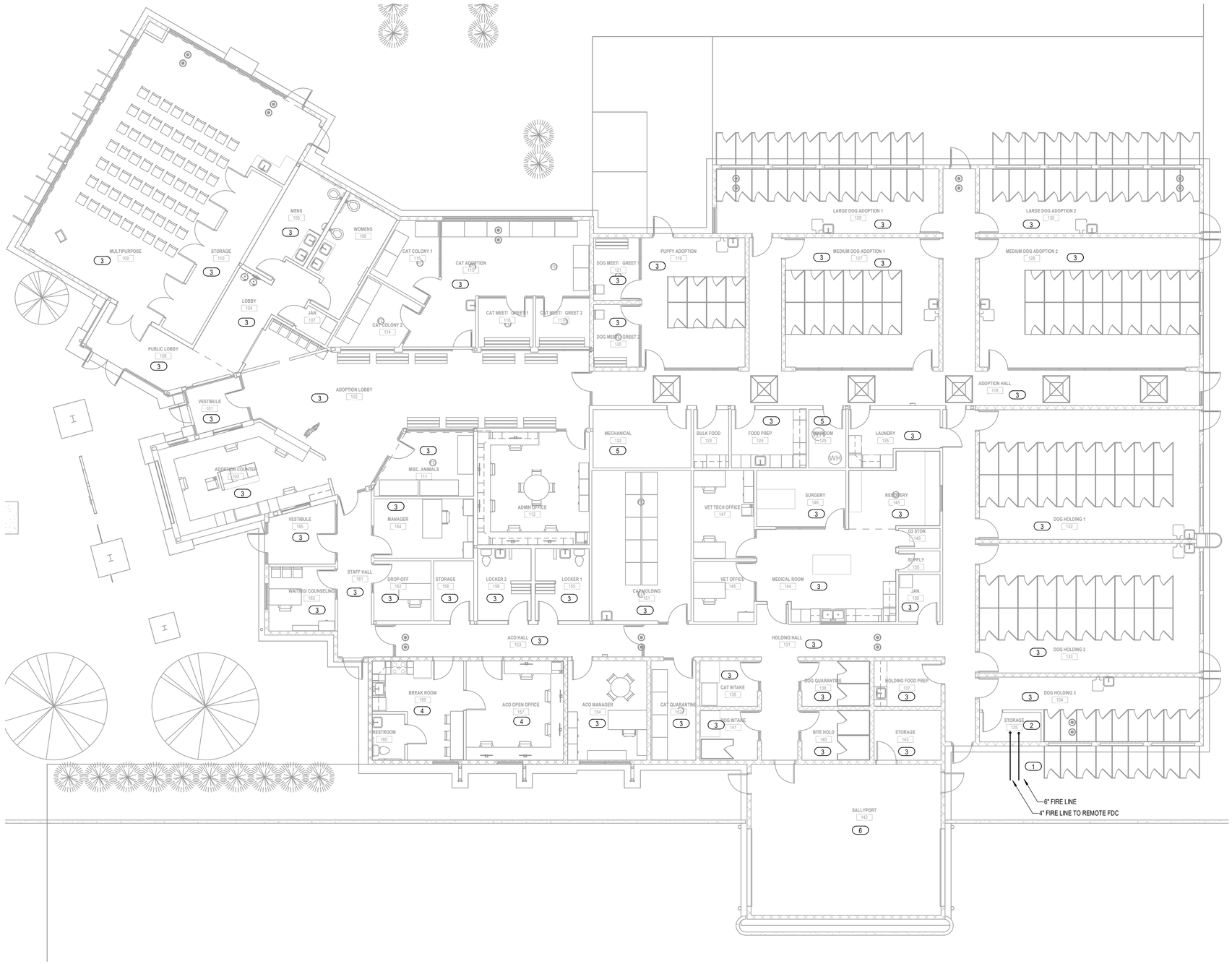
FIRE PROTECTION NOTES, LEGENDS & ABBREVIATIONS
F000



1 FIRE PROTECTION PLAN

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL TRADES ON SITE.
2. REFER TO GENERAL FIRE NOTES ON SHEET F000.
3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. STORM SHELTER - SHELTER WALL PENETRATIONS OF PIPING SHALL HAVE AN OFFSET AND BE PROTECTED WITH DEBRIS GUARD. COORDINATE DEBRIS GUARDS WITH STRUCTURAL CONTRACTOR FOR STORM SHELTER WALL PENETRATIONS OF SPRINKLER PIPING. FIRESEAL PENETRATIONS TO MAINTAIN FIRE RATING. ALL PENETRATIONS 2-1/16 INCH DIAMETER AND LARGER IN/OUT SHELTER REQUIRE FEMA SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.

KEYED NOTES

1. COORDINATE WITH SITE AND PLUMBING CONTRACTORS FOR FIRE LINES (6" AND 4") INTO BUILDING AND STUBBED UP 12" ABOVE FINISHED FLOOR WITH FLANGE.
2. FIRE SPRINKLER RISER, SEE DETAIL 1/F000.
3. LIGHT HAZARD AREA - REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS. SPRINKLER HEAD FINISH, WHITE.
4. LIGHT HAZARD AREA - STORM SHELTER - REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS. FIRE SEAL SHELTER WALL AND CEILING PENETRATIONS.
5. ORDINARY HAZARD GROUP 1 - REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS.
6. LIGHT HAZARD AREA - DRY SPRINKLER HEAD. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS. SPRINKLER HEAD WITH CHROME FINISH AND HEAD GUARD.

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SHEET TITLE
FIRE PROTECTION PLAN

SHEET NUMBER
F001

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TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
*#	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR *#	ACCESS CONTROL PROXIMITY CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
●	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'RR'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

INTERCOM GENERAL NOTES

1. THE FOLLOWING AREAS SHALL BE ZONED SEPARATELY:
   1)CAFETERIA - ZONE 1
   2)KITCHEN - ZONE 2
   3)GYMNASIUM - ZONE 3
   4)LIBRARY - ZONE 4
   5)ADMIN - MAIN OFFICE - ZONE 5
   6)EXTERIOR - ZONE 6
   7)CORRIDOR - ZONE PER AREA
   8)RESTROOM - ZONE WITH ASSOCIATED AREAS.
2. CONTRACTOR TO TAP ALL SPEAKERS WITHIN THE GYMNASIUM AND CAFETERIA AT 4 WATTS.
3. CONTRACTOR TO TAP ALL EXTERIOR SPEAKERS AT 7 WATTS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

RESPONSIBILITY MATRIX

SCOPE ITEM	RESPONSIBILITY			NOTES
COMMUNICATIONS - DIVISION 27	OFOI	CFCI	OFCI	
CATEGORY 6/6A STRUCTURED CABLING SYSTEM	✓			
VIDEO DISTRIBUTION SYSTEM - SPECIAL SPACE	✓			
AUDIO DISTRIBUTION SYSTEM - SPECIAL SPACE	✓			
PROJECTORS	✓			
PROJECTOR MOUNTS	✓			
FLAT PANEL DISPLAYS	✓			
FLAT PANEL DISPLAY MOUNTS	✓			
INTERACTIVE DISPLAYS	✓			
INTERACTIVE DISPLAY MOUNTS	✓			
DIGITAL SIGNAGE	✓			
POWERED PROJECTION SCREENS	✓			SEE NOTE 3.
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM	✓			
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT	✓			
→ VOIP TELEPHONES	✓			
→ WIRELESS ACCESS POINTS	✓			
→ UNINTERRUPTIBLE POWER SUPPLIES (UPS)	✓			
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)	✓			
INTRUSION DETECTION SYSTEM	✓			
DOOR ACCESS VIDEO INTERCOM SYSTEM	✓			
VIDEO SURVEILLANCE SYSTEM (VSS)				
→VSS SERVERS	✓			
→VSS CAMERAS	✓			
→VSS PROGRAMMING	✓			
→VSS CABLING	✓			SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		✓		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.

OFOI - OWNER FURNISHED AND OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED

RESPONSIBILITY MATRIX NOTES:
1. BY DIVISION 26.
2. BY DIVISION 27.
3. BY DIVISION 11.

TECHNOLOGY SHEET INDEX

MOORE ANIMAL SHELTER
1316 SE 34TH STREET.
MOORE, OK 73160

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06-30-23

PROJECT NUMBER
M31114
ISSUE DATE
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REVISION DATES

SHEET TITLE
TECHNOLOGY NOTES AND LEGENDS

SHEET NUMBER
T000

SALASO'BRIEN
expect a difference
2600 VAN BUREN STREET, SUITE 2635
NORMAN, OK 73072 PH: 405.364.9926
CA#:7058 EXPIRATION DATE: 6/30/2023
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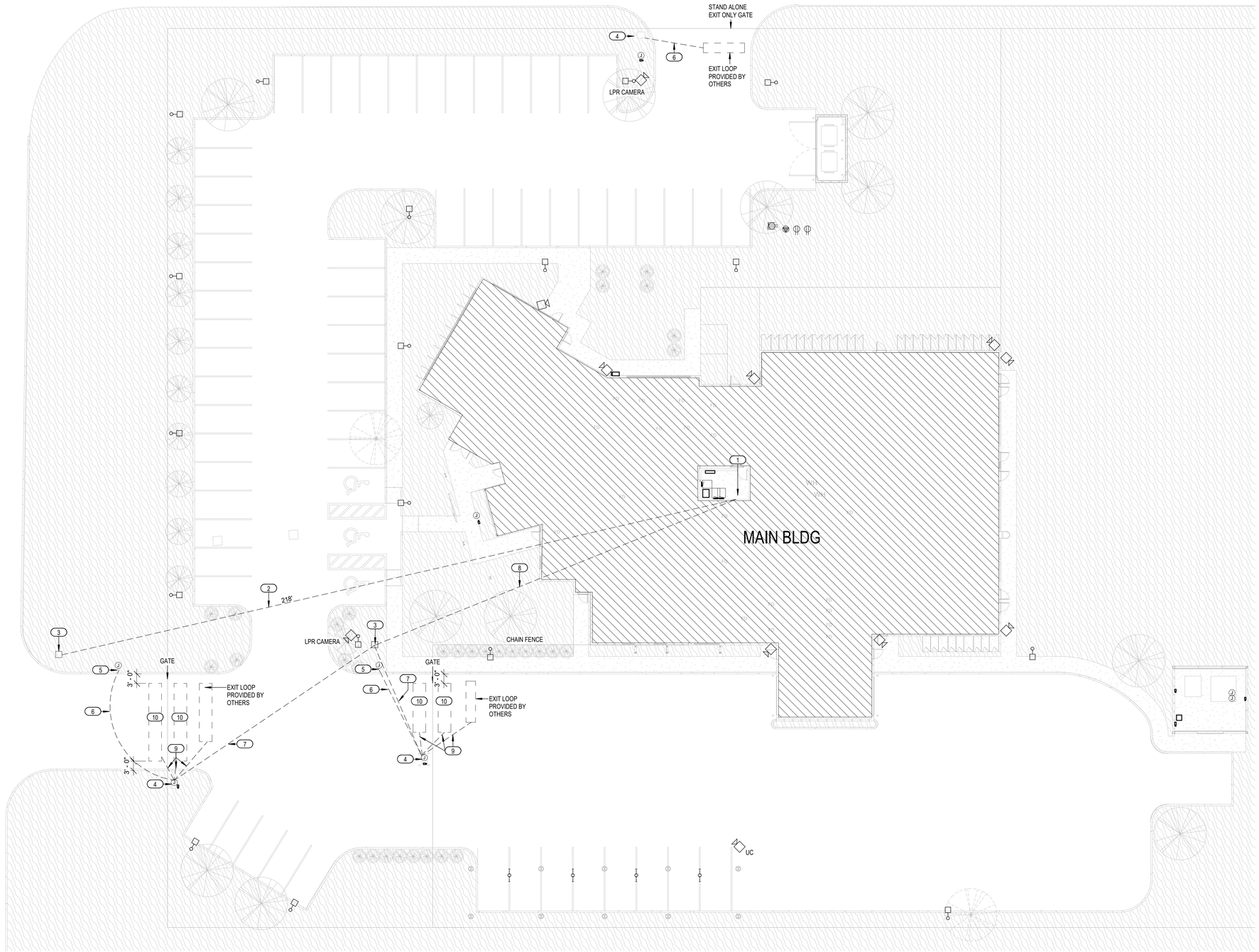

1 TECHNOLOGY SITE PLAN

1/16" = 1'-0"

TECHNOLOGY SITE PLAN GENERAL NOTES

1. CONTRACTOR TO PROVIDE PULL STRING AND SEAL BOTH ENDS OF ALL USED AND UNUSED CONDUITS
2. CONDUITS SHALL NOT EXCEED MORE THAN 180 DEGREES IN TOTAL BEND RADIUS AND/OR 250 LINEAR FEET BETWEEN PULL POINTS.
3. CONTRACTOR TO PROVIDE AND INSTALL MAXCELL FABRIC INNERDUCT PACKETS IN ALL SITE CONDUITS, EXCLUDING CONDUITS RESERVED FOR THE SERVICE PROVIDER'S USE. REFERENCE MAXCELL'S CHART AND FURNISH THE MAXIMUM SIZE AND QUANTITY RECOMMENDED BY THE MANUFACTURER. CONTRACTOR TO UTILIZE PULLING SWIVELS FOR INSTALLATION OF ALL MAXCELL INNERDUCTS.
4. CONTRACTOR SHALL PROVIDE A 20' SERVICE LOOP AT EACH PULL POINT AND A 10' SERVICE LOOP AT EACH FINAL TERMINATION END OF ALL CABLES INSTALLED.
5. CONTRACTOR TO UTILIZE INSTALLATION SWIVELS FOR INSTALLATION OF ALL FABRIC INNERDUCT AND ALL CABLE INSTALLED INSIDE FABRIC INNERDUCT.
6. CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT TO CONNECT BUILDINGS AS REQUIRED TO INSTALL FIRE ALARM CABLING. NO CABLE SHALL BE EXPOSED INDOOR OR OUTDOOR. UTILIZE EXISTING WALKWAY CANOPIES TO ROUTE BUILDING-TO-BUILDING CONNECTING CONDUITS.
7. ALL EXTERIOR CONDUITS SHALL BE RATED FOR OUTDOOR, ABOVE GROUND INSTALLATION AND SHALL BE WATER TIGHT. REFERENCE DIVISION 26 SPECIFICATION FOR CONDUIT REQUIREMENTS
8. CONTRACTOR SHALL SEAL ALL BUILDING PENETRATIONS AS REQUIRED TO ENSURE ALL PENETRATIONS ARE WEATHERPROOF.
9. EXTERIOR CAMERAS TO TERMINATE INSIDE BUILDING, ABOVE CEILING, WITH CONDUIT AND BACK BOX ROUTING OUTSIDE FOR CAMERA. PROVIDE OUTDOOR RATE PATCH CABLES TO CONNECT CAMERA TO DATA OUTLET INSIDE.
10. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR CAMERAS
11. REFERENCE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION AND COORDINATION.
12. ALL ENTRANCE CONDUITS SHALL STUB ABOVE THE FINISHED FLOOR AND STUB EVENLY AT +8" AFF. PROVIDE PROTECTIVE BUSHINGS ON ALL CONDUITS AND SEAL ALL USED AND UNUSED UPON COMPLETI0N OF THE PROJECT.

TECHNOLOGY SITE PLAN KEYED NOTES

1. INDICATES THE LOCATION OF THE BUILDING'S MDF ROOM. ALL SERVICES CONDUITS AND TELECOMMUNICATION SITE CONDUITS SHALL ORIGINATE/TERMINATE AT THIS LOCATION, UNLESS NOTED OTHERWISE. COORDINATE CONDUIT STUB UP LOCATIONS WITH THE EQUIPMENT RACKS BEING INSTALLED IN THIS ROOM. CONDUITS SHALL STUB 8" ABOVE FINISHED FLOOR. SEAL ALL USED AND UNUSED CONDUITS UPON COMPLETION OF CONSTRUCTION
2. PROVIDE AND INSTALL TWO (2) 4" CONDUITS FOR ROUTING OF COMMUNICATION SERVICES INTO THE BUILDING. CONDUITS' FINAL TERMINATION POINT SHALL BE IN THE BUILDING'S MDF. TWO (2) 4" CONDUIT SHALL HAVE THREE 1" SMOOTH WALL INNER-DUCTS AND THE REMAINING SHALL BE RESERVED FOR FUTURE USE.
3. PROVIDE AND INSTALL A ONE(1) 24"X24"X24" OR LARGER NEMA 4 ENCLOSURE PULL BOX AT THE LOCATION INDICATED. PULL BOX SHALL BE INSTALLED WITH THE TRAFFIC RATED TORSION SPRING ASSISTED COVER AT GRADE LEVEL AND CLEARLY MARKED "COMMUNICATIONS".
4. INDICATES THE LOCATION OF A VEHICLE GATE MOTOR. CONTRACTOR TO CONNECT GATE TO ACCESS CONTROL SYSTEM. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 2" CONDUIT, FROM THE NEMA 4 BOX MOUNTED AT THE POLE TO THE MDF ROOM.
5. INDICATES THE LOCATION OF A PEDESTAL INTENDED FOR MOUNTING OF ACCESS CONTROL KEYPAD. PEDESTAL AND HOUSING TO BE PROVIDE AND INSTALLED BY CONTRACTOR. PROVIDE AND INSTALL CONDUIT, FROM ASSOCIATED TELECOM/ACCESS CONTROL HUB.
6. PROVIDE AND INSTALL TWO(2) 1" CONDUIT FOR CONTROL WIRING FROM GATE KEYPAD TO GATE OPERATOR.
7. PROVIDE AND INSTALL TWO(2) 1" CONDUIT FOR GATE OPERATOR WIRING. ONE CONDUIT SHALL BE RESERVED AS SPARE.
8. PROVIDE AND INSTALL TWO (2) 1" CONDUIT FOR GATE OPERATOR WIRING BACK TO MDF ROOM FOR GATE RELEASE BUTTON.
9. PROVIDE AND INSTALL ONE(1) 1" CONDUIT FOR EXIT AND REVERSE LOOPS TO GATE OPERATOR.
10. REVERSE LOOP. PROVIDED BY OTHERS

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SHEET TITLE
TECHNOLOGY
SITE PLAN

SHEET NUMBER
T100

SALASO'BRIEN
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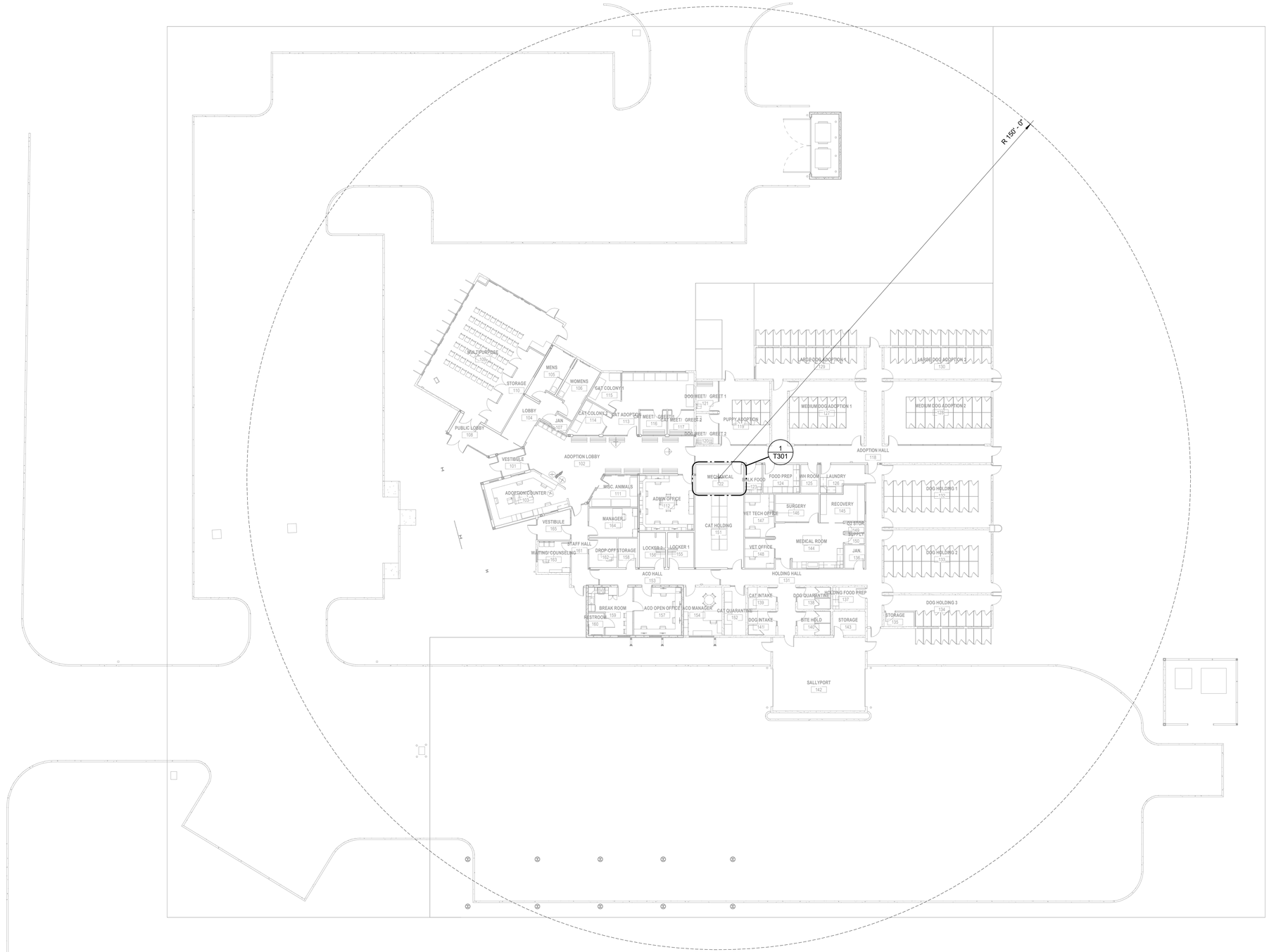

1 TECHNOLOGY COMPOSITE PLAN

1/16" = 1'-0"

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TECHNOLOGY COMPOSITE PLAN

SHEET NUMBER
T101

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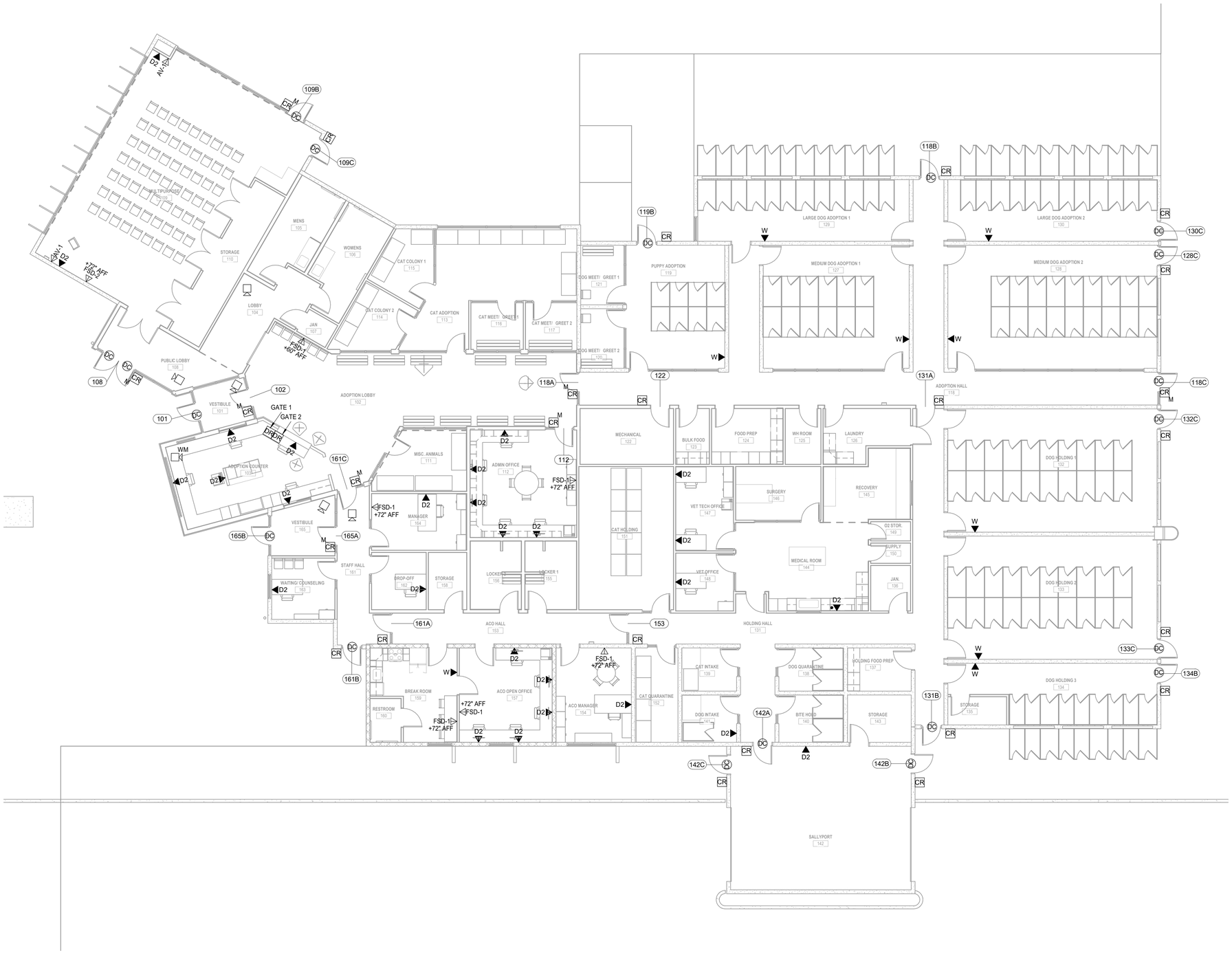
FIRE ALARM

A	FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B	A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.



1 TECHNOLOGY FLOOR PLAN

1/8" = 1'-0"

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TECHNOLOGY FLOOR PLAN

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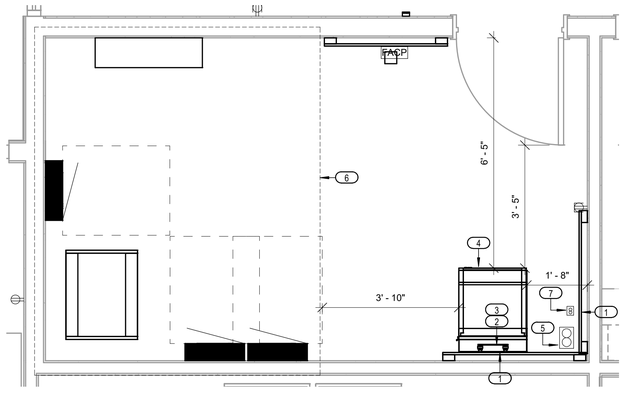

1 MECHANICAL ROOM - IDF LOCATION

1/2" = 1'-0"

TECHNOLOGY ENLARGED PLAN GENERAL NOTES

1	ALL RACK LOCATIONS SHALL BE COORDINATED WITH THE PROJECT'S TECHNOLOGY CONSULTANT AND OWNER PRIOR TO INSTALLATION. NO RACKS AND/OR ASSOCIATED CABLE TRAY SYSTEM SHALL BE PERMANENTLY INSTALLED PRIOR TO DOCUMENTED ACCEPTANCE.
2	PATCH PANEL QUANTITY SHALL BE DETERMINED BY STATION CABLE DROP COUNTS SHOWN ON TECHNOLOGY PLANS AND THE ASSOCIATED PROJECT MATRIX. ENSURE PATCH PANEL QUANTITY IS SUFFICIENT TO SUPPORT THE NUMBER OF PORTS REQUIRED BY TECHNOLOGY PLANS PLUS AN ADDITIONAL 25% FOR FUTURE GROWTH.
3	CONTRACTOR SHALL NOT MOUNT EXCEED MORE THAN A 50% RACK FILL RATIO ON ANY RACK.
4	REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS
5	ALL RACKS, LADDER TRAYS, LIGHTNING PROTECTION ENCLOSURES AND ANY OTHER DEVICES, PART OF THE STRUCTURED CABLING SYSTEM, SHALL BE GROUNDED TO A GROUND BUS BAR LOCATED IN THE TELECOMMUNICATIONS ROOM WITH A #6AWG GROUND CABLE. DAISY CHAINING WILL NOT BE ACCEPTED. ALL ITEMS SHALL HAVE A DEDICATED GROUND CABLE TO BUS BAR. GROUND CABLE SHALL BE GREEN IN COLOR.
6	ALL TECHNOLOGY EQUIPMENT IS SHOWN FOR REFERENCE AND ROUGH-IN ONLY.

TECHNOLOGY ENLARGED PLAN KEYED NOTES

1	INDICATES THE LOCATION OF A 8" TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
2	INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +93" A.F.F.
3	TGBB AND ALL REQUIRED ELECTRICAL OUTLETS SHALL BE LOCATED INSIDE THE CABINET.
4	CONTRACTOR TO PROVIDE AND INSTALL ONE (1) 40RU, FULL HEIGHT, 32" DEEP WALL MOUNTED CABINET. REFERENCE SPECIFICATIONS FOR MATERIALS AND ADDITIONAL INFORMATION.
5	INDICATES THE LOCATION WHERE ENTRANCE CONDUITS SHALL STUB ABOVE THE FINISHED FLOOR. CONDUITS SHALL STUB EVENLY AT +8" AFF. PROVIDE PROTECTIVE BUSHINGS ON ALL CONDUITS AND SEAL ALL USED AND UNUSED UPON COMPLETION OF THE PROJECT. REFERENCE TECHNOLOGY AND ELECTRICAL SITE PLANS FOR ADDITIONAL INFORMATION. (mdf and idfs above 1st floor)
6	MEP EQUIPMENT. REFERENCE MECHANICAL ELECTRICAL AND PLUMBING PLANS FOR MORE INFORMATION.
7	INDICATES STUB UP LOCATION OF CONDUITS RESERVED FOR CONNECTING GATE OPERATORS TO GATE RELEASE BUTTONS IN RECEPTION AREA.

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TECHNOLOGY ENLARGED PLAN

SHEET NUMBER
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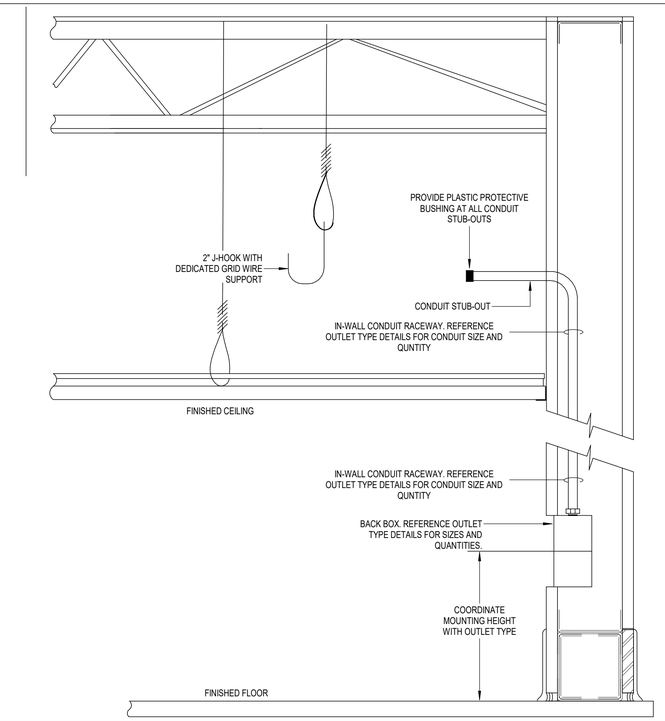
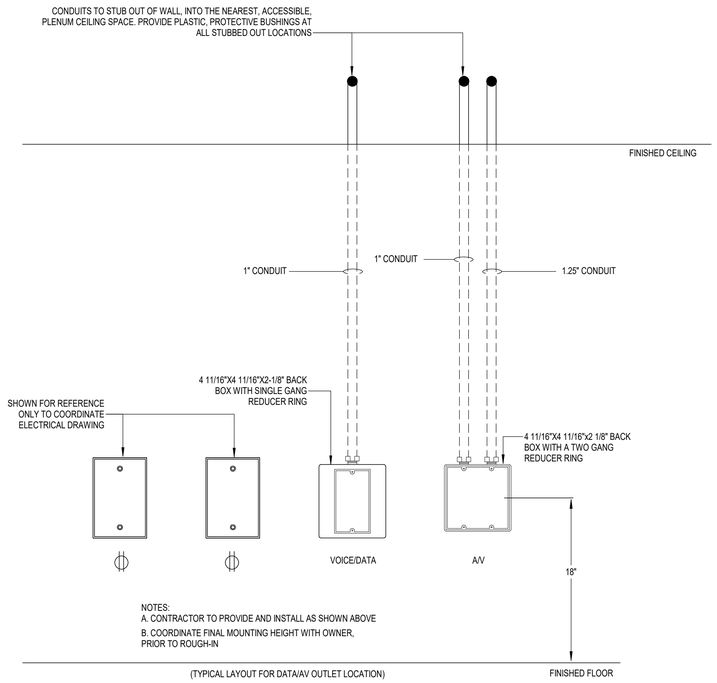
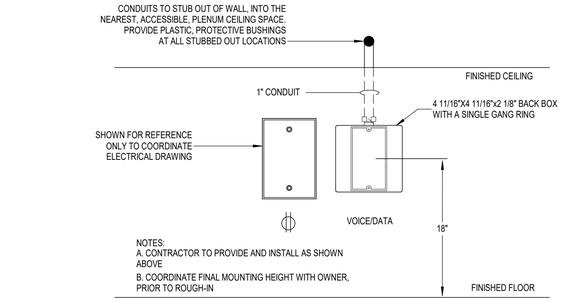


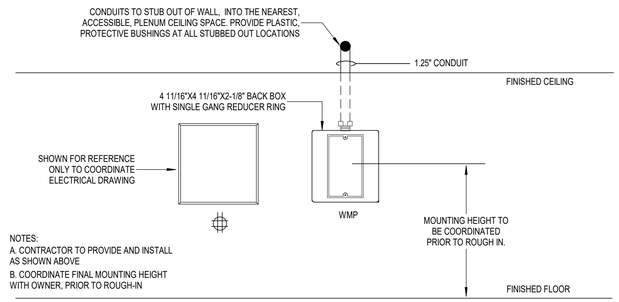
01 LOW VOLTAGE ELEVATION - IN-WALL RACEWAY NOT TO SCALE



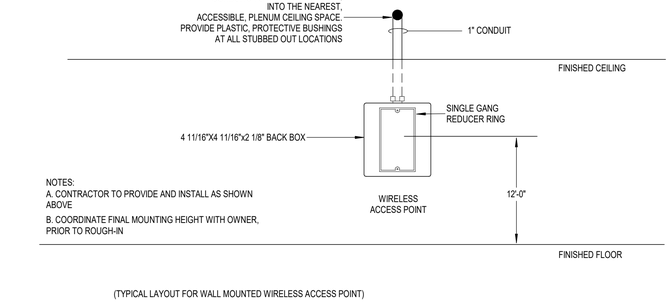
02 RACEWAY DETAIL - TYPICAL INSTRUCTORS OUTLET NOT TO SCALE



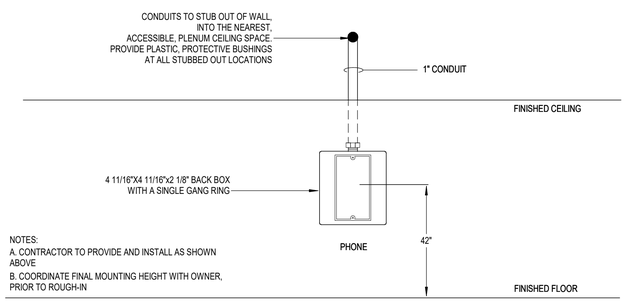
03 RACEWAY DETAIL - TYPICAL VOICE/DATA OUTLET NOT TO SCALE



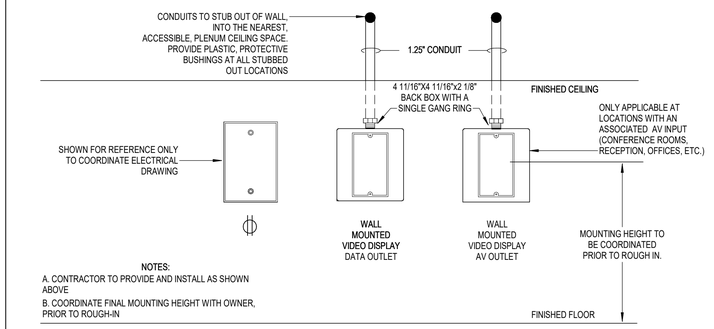
04 RACEWAY DETAIL - WALL MOUNTED PROJECTOR NOT TO SCALE



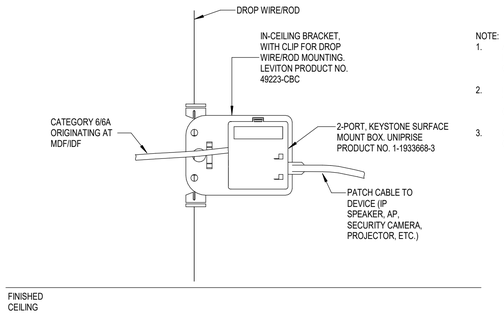
05 RACEWAY DETAIL - WALL MOUNTED WIRELESS AP NOT TO SCALE



06 RACEWAY DETAIL - WALL MOUNTED TELEPHONE NOT TO SCALE

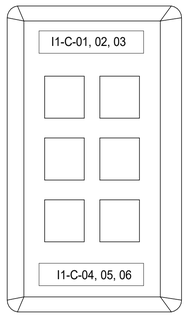


07 RACEWAY DETAIL - WALL MOUNTED DISPLAY NOT TO SCALE



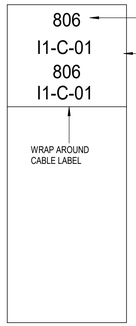
NOTE:
1. ALL ITEMS SHOWN IN THIS DETAIL SHALL BE PROVIDED AND INSTALLED BY THE STRUCTURED CABLING SYSTEM INSTALLER.
2. DROP WIRE SUPPORT SHALL BE DEDICATED TO THE OUTLET. DO NOT MOUNT TO EXISTING CEILING GRID WIRE.
3. OUTLET SHALL BE LOCATED WITHIN 3' OF THE CEILING AND WITH 5' FROM THE IP DEVICE.

08 ABOVE CEILING STAND ALONE OUTLET NOT TO SCALE



1. FACEPLATE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/4" IN HEIGHT
2. PROVIDE BLANK INSERTS FOR ANY UNUSED PORTS
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

09 FACEPLATE LABEL DETAIL NOT TO SCALE



ROOM NUMBER. (COORDINATE WITH FINAL GRAPHICS PACKAGE, NOT CONSTRUCTION NUMBERS)
T.R. IDENTIFICATION-PANEL IDENTIFICATION-PORT IDENTIFICATION
IF CABLE SERVERS BUILDING INTERCOM SYSTEM PROVIDE AN "I" BETWEEN THE TR IDENTIFIER AND THE PANEL: EXAMPLE I1-I-C-01

1. WRAP AROUND CABLE LABEL TO BE INSTALLED AT BOTH THE WORK AREA OUTLET AND CLOSET ENDS OF ALL CABLES. INSTALL LABEL 1" FROM THE END OF THE CABLE JACKET AT BOTH ENDS.
2. CABLE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/8" IN HEIGHT.
3. COORDINAE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

10 CABLE LABEL DETAIL NOT TO SCALE

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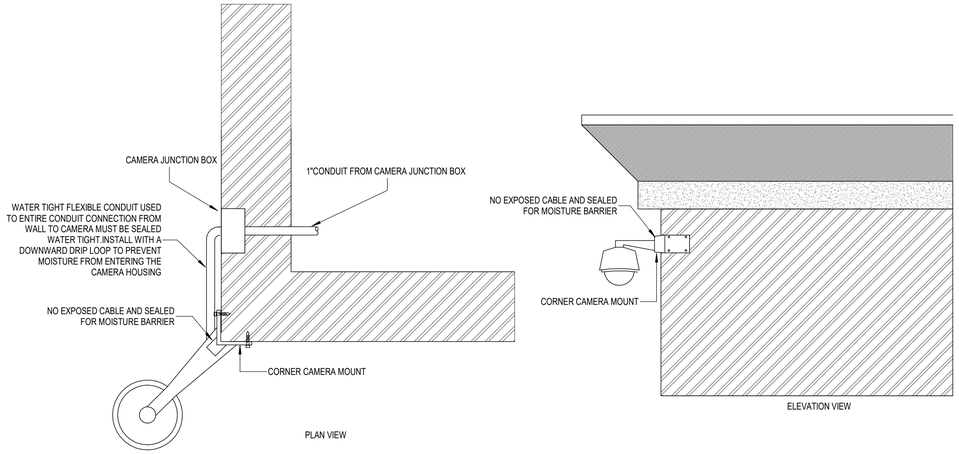
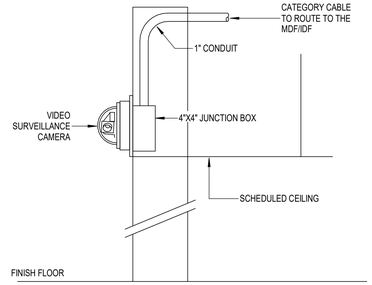


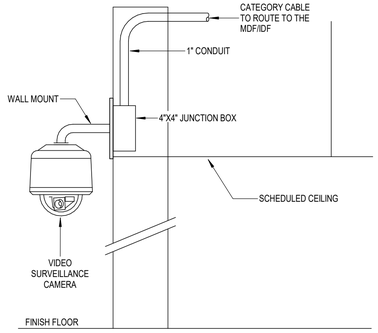
NOTE:

ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT WITH PULL STRING TO NEAREST AVAILABLE PLENUM SPACE. SECURITY CONTRACTORS SHALL PROVIDE CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

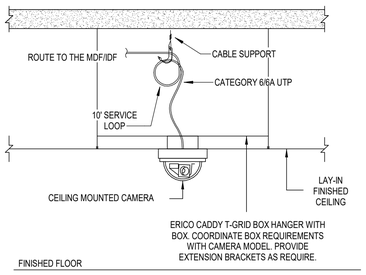
01 CORNER MOUNTING DETAIL — NOT TO SCALE



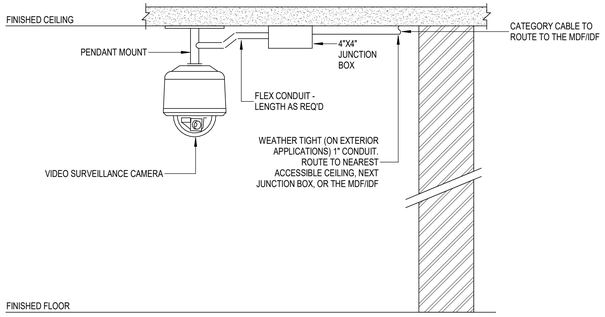
02 INTERIOR WALL MOUNT CAMERA-VERTICAL — NOT TO SCALE



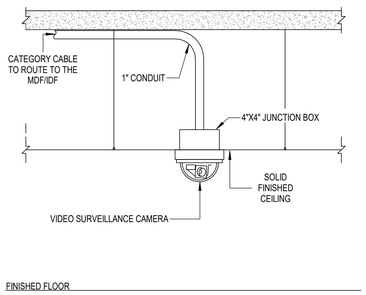
03 INTERIOR WALL MOUNTED DOME CAMERA — NOT TO SCALE



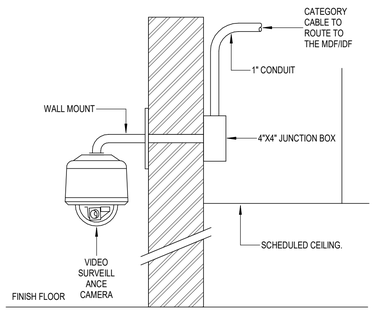
04 INTERIOR LAY-IN CEILING MOUNTED CAMERA — NOT TO SCALE



05 EXT./INT. PENDANT MOUNTED DOME CAMERA — NOT TO SCALE



06 EXTERIOR/INTERIOR SOLID CEILING MOUNT CAMERA — NOT TO SCALE



07 EXTERIOR WALL MOUNTED DOME CAMERA — NOT TO SCALE

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS AND BACK BOXES. CONDUITS SHALL ROUTE TO THE NEAREST, ACCESSIBLE PLENUM SPACE.

B. ALL WALL, CORNER, PENDANT, AND UNDER CANOPY MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE OWNER AND SECURITY CONSULTANT PRIOR TO ROUGH-IN.

C. SECURITY CONTRACTOR SHALL PROVIDE CAMERAS, MOUNTING HARDWARE, AND ANY OTHER COMPONENTS AND/OR HARDWARE REQUIRED FOR A COMPLETE INSTALLATION.

D. REFERENCE VIDEO SURVEILLANCE CAMERA SCHEDULES, FLOOR PLANS, AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

E. CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

08 NOTES — NOT TO SCALE

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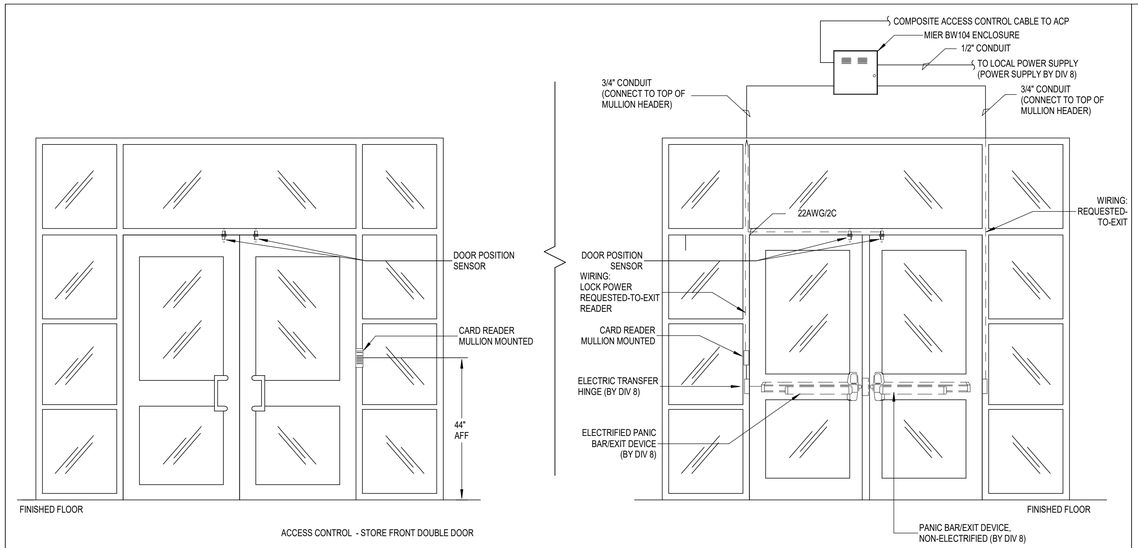
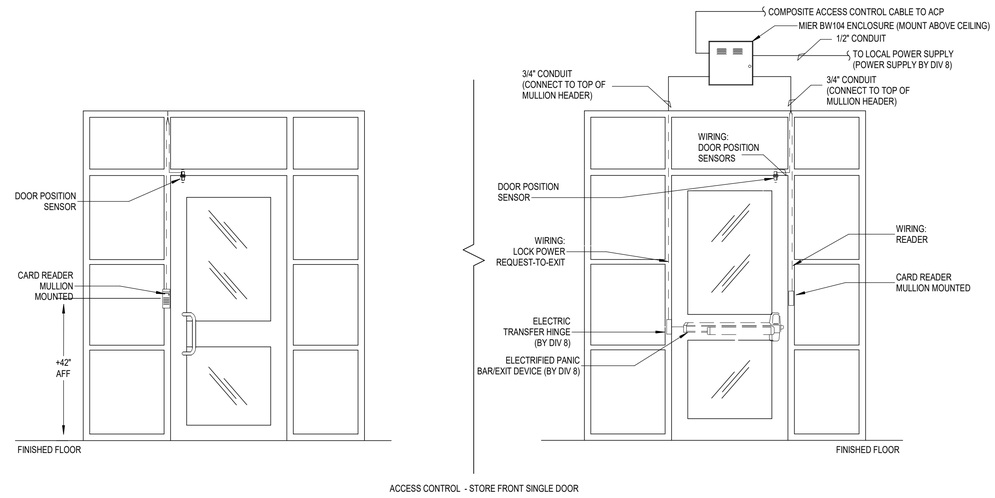
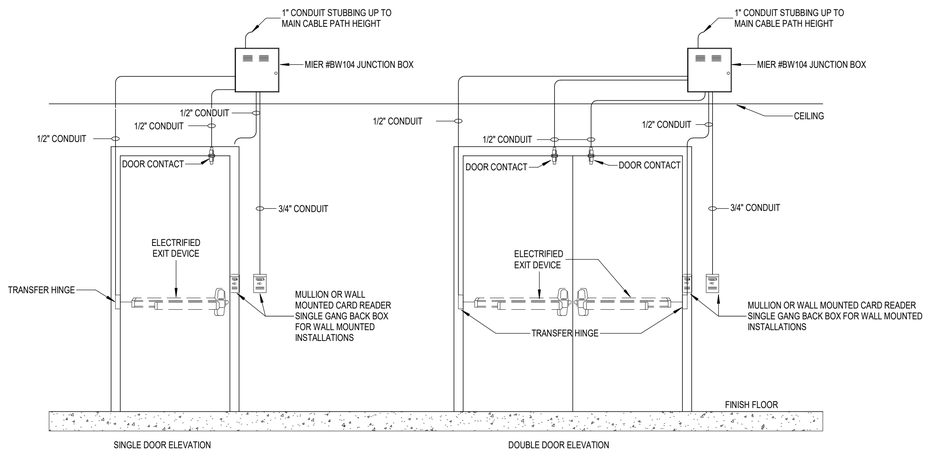


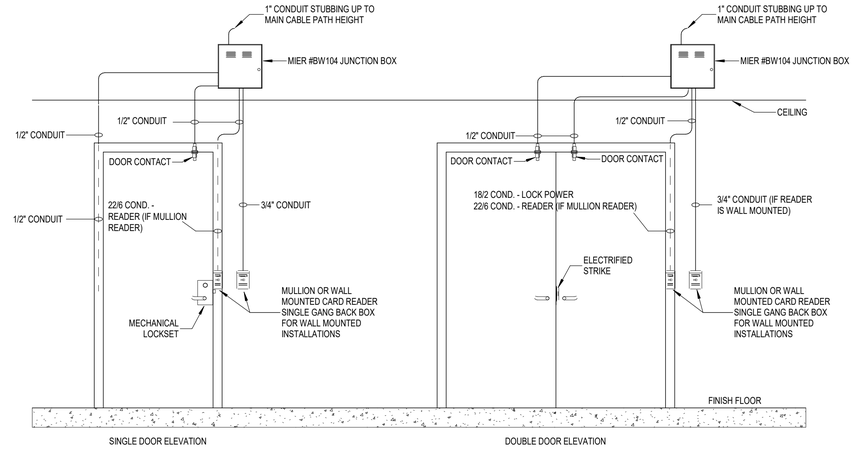
01 ACCESS CONTROL - STORE FRONT DOUBLE DOOR NOT TO SCALE



02 ACCESS CONTROL - STORE FRONT SINGLE DOOR NOT TO SCALE



03 ACCESS CONTROL - EXIT DEVICE DOOR ELEVATION NOT TO SCALE



05 ACCESS CONTROL - ELECTRIFIED STRIKE DOOR ELEVATION NOT TO SCALE

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