CFPD Station 3 Addition / Remodel For:

Cottleville Fire Protection District

6310 Weldon Spring Road
Weldon Spring, Missouri

- **LCS, LLC**
  Design/Builder
- **SE/Coady Architects, LLC**
  Architects
- **Crockett Engineering Consultants**
  Civil/Structural Engineers
- **Jarrell Mechanical Contractors**
  MP Design/Builder
- **Warren County Electric**
  Electrical Design/Builder

PLAN REVIEW INFORMATION

CODE INFORMATION:

- 2015 ICC INTERNATIONAL BUILDING CODES
- 2015 ICC INTERNATIONAL EXISTING BUILDING CODE
- 2015 ICC INTERNATIONAL FIRE CODE
- 2015 ICC INTERNATIONAL MECHANICAL CODE
- 2015 ICC INTERNATIONAL PLUMBING CODE
- 2014 NFPA 70 NATIONAL ELECTRICAL CODE W/ AMENDMENTS
- 2015 ICC INTERNATIONAL ENERGY CONSERVATION CODE W/ AMENDMENTS
- 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
- 2012 NFPA 101

NAME OF PROJECT: CFPD STATION 2 REMODEL
STREET ADDRESS: 4065 SOUTH OLD HIGHWAY 94, ST. CHARLES, MO

1. TYPE OF PROJECT: FIREHOUSE REMODEL

EXISTING BUILDING
FIRST FLOOR:
2,919 S.F. EXISTING FIREHOUSE
3,109 S.F. EXISTING APPARATUS BAY
6,109 S.F. EXISTING BUILDING

PARTIAL EXISTING LOWER LEVEL:
2,784 S.F. EXISTING LOWER LEVEL

BUILDING DEMOLITION AREAS:
2,784 S.F. FIRST FLOOR FIREHOUSE DEMOLITION
2,784 S.F. LOWER LEVEL DEMOLITION

BUILDING WITH NEW ADDITION:
3,325 S.F. EXISTING BUILDING
6,460 S.F. ADDITION
9,785 S.F. TOTAL NEW BUILDING

SQUARE FOOTAGE BY OCCUPANCY:
FIREHOUSE: 6,595 S.F. (R-2)
APPARATUS BAY: 3,190 S.F. (S-2)

2. HEIGHT / AREA (CHAPTER 5):

USE GROUP: MIXED USE R-2 RESIDENTIAL / S-2 STORAGE
TYPE OF CONSTRUCTION: 5B

3. HEIGHT AND AREA (CHAPTER 5):
ALLOWABLE AREA: (TYPE VB / SPRINKLERED)
R-2: 28,000 S.F. / 3 STORIES
S-2: 54,000 S.F. / 3 STORIES

3. FIRE SUPPRESSION (CHAPTER 9):
THROUGHOUT (OCCUPANCY REQUIREMENT) (903.2.1 THROUGH 903.2.11): GROUP R - REQUIRED THROUGHOUT BUILDING
THROUGHOUT (BUILDING AREA OR HEIGHT INCREASE) (504.3 AND 506.3): N/A
THROUGHOUT (HIGH RISE, UNDERGROUND, SPECIAL AMUSEMENT, AIRCRAFT HANGERS AND UNLIMITED AREA BUILDINGS) (403.3, 405.3, 411.4, 412.4.6, 507): N/A
PARTIAL (INCIDENTAL USE AREAS (508.2.5), STORIES W/O OPENINGS (903.2.11.1), RUBBISH AND LINEN CHUTES (903.2.11.2), BUILDINGS OVER 55' TO HIGHEST FLOOR (903.2.11.3), AS LISTED IN TABLE 903.2.11.6
OR KITCHEN EXHAUST HOOD (904.2))
1-5 HEADS - DOMESTIC (IPC 890.1130D)1): N/A
>5-20 HEADS (UP TO 40 IF MULTIPLE SYSTEMS) HEADS - LIMITED AREA (903.4): N/A
>20 HEADS (903.1): N/A

4. INCIDENTAL ACCESSORY OCCUPANCIES (TABLE 509)
FURNACE ROOM WITH SINGLE PIECE OF EQUIP. 400 K BTUH INPUT: N/A
BOILER ROOM WITH SINGLE PIECE OF EQUIP. 15 PSI & 10 HP: N/A
LAUNDRY ROOMS OVER 100 SQUARE FEET: AUTOMATIC SPRINKLER SYSTEM PROVIDED
OTHER THAN AMBULATORY CARE FACILITIES OR GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS OVER 100 S.F.: N/A
STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS FOR FLOODED LEAD-ACID, NICKEL CADMIUM OR VRLA, OR MORE THAN 1000 POUNDS FOR LITHIUM-ION AND LITHIUM METAL POLYMER USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES: N/A

5. MIXED USE OPTIONS: (SPECIFY ONE)
NON-SEPARATED USES (508.3) ALLOWABLE AREA/HEIGHT CONTROLLED BY MOST RESTRICTIVE USE: R-2 / S-2
SEPARATED USES (508.4) ALLOWABLE HEIGHT CONTROLLED BY EACH USE. ALLOWABLE AREA CONTROLLED BY RATIO OF ACTUAL AREAS/ALLOWABLE AREAS
(ACT./ALLOW.+ACT./ALLOW. + ETC. <1): N/A
SEPARATE BUILDING / FIRE WALLS/ NOTE OPEN PERIMETER AREA INCREASE INDEPENDENT FOR EACH BUILDING: N/A
ENCLOSED PARKING STRUCTURES UNDER OCCUPANCIES A, B, M OR R (510.7): N/A

6. TABLE 601 - FIRE RATINGS OF STRUCTURAL FRAME:
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS AND TRUSSES: 0
BEARING WALLS
EXTERIOR: 0 HR
INTERIOR: 0 HR
NON-BEARING WALLS
EXTERIOR: 0 HR
INTERIOR: 0 HR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS: N/A
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS: N/A
SEE SECTION 704 FOR REQUIREMENTS FOR PROTECTION OF STRUCTURAL MEMBERS

7. TABLE 602- FIRE RATING OF EXTERIOR WALLS BASED UPON SEPARATION DISTANCE:

	(<5')	(5'TO<10')	(10'TO<30') (30' OR MORE)
LOAD BRG.	N/A	N/A	0 HR N/A
NON-LOAD BRG.	N/A	N/A	0 HR N/A

8. OTHER FIRE RESISTIVE ASSEMBLIES:
FIRE WALLS (706 - SEPARATING BUILDINGS): N/A
FIRE BARRIERS (707):
VERTICAL EXIT ENCLOSURES (1023): N/A
EXIT PASSAGEWAYS (1024): N/A
HORIZONTAL EXITS (1026): N/A
ACCESSORY USE AREAS (508.2) N/A
MIXED OCCUPANCY (508): R-2 / S-2 = 1 HR (TABLE 508.4 AND 406.3.4)
SHAFT AND VERTICAL EXIT ENCLOSURES (707, 712 AND 713):
MECHANICAL SHAFTS (713.4): LESS THAN 4 STORIES-N/A, 4 STORIES OR MORE: N/A
REFUSE AND LAUNDRY CHUTES (713.13): N/A
ELEVATOR AND DUMBWAITER SHAFTS (713.14): N/A
FIRE PARTITIONS (708):
SEPARATION WALLS AS REQUIRED BY SECTION 420.2 FOR GROUPS I-1, R-1, R-2 AND R-3 (708.1): 1/2 HOUR RATING SEPARATING R-2 SLEEPING ROOMS.
WALLS SEPARATING TENANT SPACES IN COVERED AND OPEN MALL BUILDINGS REQUIRED BY SECTION 402.4.2.1 (708.1): N/A
CORRIDOR WALLS AS REQUIRED BY SECTION 1020.1 (708.1): 1/2 HR
ELEVATOR LOBBY SEPARATION AS REQUIRED BY SECTION 3006.2 (708.1): N/A
EGRESS BALCONIES AS REQUIRED BY SECTION 1019.2.: N/A
SMOKE BARRIERS (709): N/A
FLOOR AND ROOF ASSEMBLIES (711): SEE ITEM 6 ABOVE AND FIRE BARRIERS ABOVE: N/A
FIRE AREAS (903): SEE FIRE WALL, FIRE BARRIERS AND HORIZONTAL ASSEMBLIES ABOVE: N/A.

9. OPENINGS, PENETRATIONS AND JOINTS:

PENETRATIONS (714) BY METAL CONDUITS AND PIPE, PLASTIC PIPE, DUCTWORK:
VERTICAL AND HORIZONTAL FIRE RESISTANCE RATED ASSEMBLIES (714.3 AND 714.4): SAME AS ASSEMBLY RATING.
NON-FIRE RESISTANCE RATED ASSEMBLIES (CONNECTING >2 STORIES) (714.5): SAME AS SHAFT ENCLOSURE.

JOINTS (715) WHERE WALLS MEET WALLS, WALLS MEET FLOORS OR WALLS MEET ROOF ASSEMBLIES TESTED IN ACCORDANCE WITH UL 2079: SAME AS ASSEMBLY RATING.

OPENINGS (716)	ASSEMBLY TYPE	ASSEMBLY RATING	OPENING RATING
	DOORS AND SHUTTERS	N/A	N/A
	FIRE WALL/FIRE BARRIER>1 HR	N/A	N/A
	SHAFT/EXIT ENCLOSURE	N/A	N/A
	HORIZONTAL EXITS IN FIRE WALLS	N/A	N/A
	1 HR FIRE BARRIERS	1 HR	1 HR
	OTHER FIRE BARRIERS	N/A	N/A
	FIRE PARTITIONS: CORRIDOR WALLS	.5	1/3
	OTHER FIRE PARTITIONS	.5	1/3
	SMOKE BARRIERS	N/A	N/A
	EXTERIOR WALLS	N/A	N/A

GLAZING (716.6) ASSEMBLY RATING N/A MAXIMUM GLAZING SIZE N/A

10. DRAFTSTOPPING IN ATTICS:

718.4.2 / 718.4.3 - NOT REQUIRED IN BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1.1.

INTERIOR FINISHES (T803.11):

	SPRINKLERED	UNSPRINKLERED
VERTICAL EXITS AND EXIT PASSAGEWAYS	CLASS B	N/A
EXIT ACCESS CORRIDORS AND OTHER EXITWAYS	CLASS B	N/A
ROOMS/ENCLOSED SPACES	CLASS C	N/A

11. FIRE ALARM AND DETECTION SYSTEMS (907): REQUIRED NOT REQUIRED PROVIDED
MANUAL FIRE ALARM X
AUTOMATIC FIRE DETECTION X
SINGLE/MULTIPLE STATION .....

12. OCCUPANT LOAD (1004):
R-2 = 6,595/200 = 33 PEOPLE
S-2 = 3,190/300 = 11 PEOPLE
TOTAL: 44 PEOPLE (ACTUAL: 4 PER SHIFT)

13. EGRESS WIDTH (PER FLOOR): STAIRWAYS DOORS TOTAL @ LEVEL OF EXIT DISCHARGE
CALCULATED (T1005.1): .....N/A.....(.2) x44=8.8 in.....34 x 5 = 170".....

14. NUMBER OF EXITS:
SPACES WITH 1 EXIT (T1006.2.1) : N/A

15. STORIES WITH ONE EXIT (1006.3.2(2) # OF STORIES: N/A # OF OCC'S.: N/A TRAVEL DIST.: N/A
>1 EXIT REQUIRED (1006.2.1): OCCUPANT LOAD: 44 NUMBER OF EXITS REQUIRED: 2
NUMBER OF EXITS PROVIDED: 4

15. EXIT TRAVEL DISTANCE (1017):
ACTUAL: 100'
ALLOWED (T1017.2): 250' (with a sprinkler system)

16. ATTIC AND UNDERFLOOR VENTILATION (1203.2 AND 1203.3): N/A
AREA(S) OF ATTIC IN NEW ADMIN ADDITION: N/A, VENTILATION NFA: N/A
AREA(S) OF UNDERFLOOR: N/A VENTILATION NFA: N/A

17. ROOF COVERING CLASS (1505): CLASS C.

18. RESTROOMS:

TYPE OF BUILDING:	MIN. # REQUIRED FIXTURES MALE	FEMALE
WATER CLOSETS:		
R-2	1/10	1/10
S-2	1/100	1/100

ACTUAL NUMBER PROVIDED: 4 OCCUPANTS PER SHIFT - 4 WATER CLOSETS PROVIDED

LAVATORIES:		
R-2	1/10	1/10
S-2	1/100	1/100

ACTUAL NUMBER PROVIDED: 4 OCCUPANTS PER SHIFT - 4 WATER CLOSETS PROVIDED

SERVICE SINK: 1 REQ'D. 1 PROVIDED

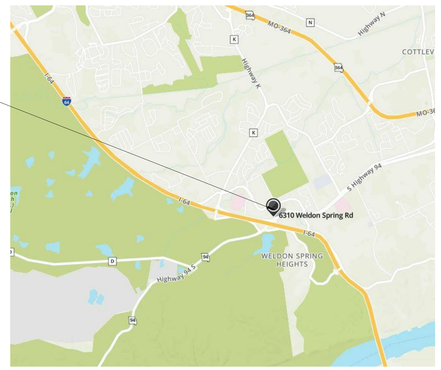
DRINKING FOUNTAINS: REQUIRED: 1 1 PROVIDED

SHEET INDEX

G001	TITLE SHEET WITH CODE REVIEW	STRUCTURAL	
G002	GENERAL INFORMATION	S100	COVER/GENERAL STRUCTUAL DATA
CIVIL		S101	STORM SHELTER STRUCTURAL DATA
CE0	CIVIL NOTES	S200	FOUNDATION PLAN
CE1	CIVIL DEMOLITION PLAN	S210	FOUNDATION DETAILS
CE2	SITE PLAN	S300	ROOF FRAMING PLAN
CE3	GRADING PLAN	S310	ROOF FRAMING DETAILS
CE4	SITE CONSTRUCTION DETAILS	PLUMBING	
ARCHITECTURAL		P201	BELOW SLAB PLUMBING PLAN
LS101	LIFE SAFETY PLAN	P301	PLUMBING FLOOR PLAN
AD101	DEMOLITION FLOOR PLANS	P401	PLUMBING DETAILS
AD121	DEMOLITION REFLECTED CEILING PLANS	P501	PLUMBING SCHEDULES
AD141	DEMOLITION ROOF PLAN	MECHANICAL	
AD201	DEMOLITION ELEVATIONS	M101	MECHANICAL DUCTWORK FLOOR PLAN
AD202	DEMOLITION ELEVATIONS	M201	MECHANICAL PIPING FLOOR PLAN
A101	FIRST FLOOR PLAN	M401	MECHANICAL DETAILS
A121	REFLECTED CEILING PLAN	M402	MECHANICAL DETAILS
A141	ROOF PLAN	M403	MECHANICAL DETAILS
A201	EXTERIOR ELEVATIONS	M501	MECHANICAL SCHEDULES
A202	EXTERIOR ELEVATIONS	ELECTRICAL	
A221	INTERIOR ELEVATIONS	E000	ELECTRICAL SYMBOLS AND ABBREVIATIONS
A301	BUILDING SECTIONS	E100	SITE PLAN - ELECTRICAL
A321	WALL SECTIONS	ED200	BASEMENT DEMOLITION PLAN
A541	SECTION DETAILS	ED201	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
A601	SCHEDULES	E201	FIRST FLOOR PLAN - POWER & SYSTEMS
A602	EQUIPMENT PLAN AND SCHEDULE	E301	FIRST FLOOR CEILING PLAN - LIGHTING
A961	GENERAL FINISH NOTES AND MATERIAL SELECTIONS	E500	ELECTRICAL RISER DIAGRAM
.		E502	ELECTRICAL SCHEDULES AND DETAILS

SITE LOCATION MAP

SITE LOCATION



ISSUE FOR PERMIT - 2022-07-26 (1)

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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

Sheet Info:

TITLE SHEET WITH CODE REVIEW

Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

G001

7/26/2022 6:37:26 PM

STANDARD ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACOUS	ACOUSTICAL
ADJ	ADJUST/ADJACENT
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ANCH	ANCHOR
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BM	BEAM
B.M.	BENCH MARK
BRG	BEARING
BTM	BOTTOM
CAB	CABINET
CB	CHALK BOARD
CEM PL	CEMENT PLASTER
CIPC	CAST-IN-PLACE CONCRETE
CJ	CONTROL/CONSTRUCTION JOINT
CLG	CEILING
CLR	CLEAR
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT

COL	COLUMN
COMP	COMPRESSIBLE/COMPACTED
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED
CPT	CARPET
CR	COLD ROLLED
CT	CERAMIC TILE
CTR FLSH	COUNTER FLASHING
CTR SK	COUNTER SINK
CUH	CABINET UNIT HEATER
CUV	CABINET UNIT VENTILATOR
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DNSP	DOWNSPOUT
DR	DOOR
DTL	DETAIL
DW	DRYWALL
DWG	DRAWING
DWL	DOWEL
EA	EACH
ED	ELECTRIC DRYER
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EMER	EMERGENCY
EP	EPOXY
EPDM	ETHYLENE PROPYLENE DIENE MONOMER

EQ	EQUAL
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPANSION/EXPOSED
EXT	EXTERIOR
FBO	FURNISHED BY OWNER/OTHERS
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FLSH	FLASHING
FRT	FIRE RETARDANT TREATED
FUR CH	FURRING CHANNEL
FURN	FURNACE
FTG	FOOTING
GA	GAUGE
GALV	GALVENIZED
GC	GENERAL CONTRACTOR
GD	GAS DRYER
GL	GLASS
GMU	GLAZED (CONCRETE) MASONRY UNIT
GT	GLAZED TILE UNITS
GWB	GYPSUM WALL BOARD
GWH	GAS WATER HEATER
GYP PL	GYPSUM PLASTER
HB	HOSE BIB
HDNR	HARDENER

HD WD	HARD WOOD
HDWRE	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HTG	HEATING
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HWH	HOT WATER HEATER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JT	JOINT
KD	KNOCK DOWN
KO	KNOCK OUT (PANEL)
LAM	LAMINATED
LAV	LAVATORY
LH	LEFT HANDED
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LEVEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
MARB	MARBLE
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MAN HOLE

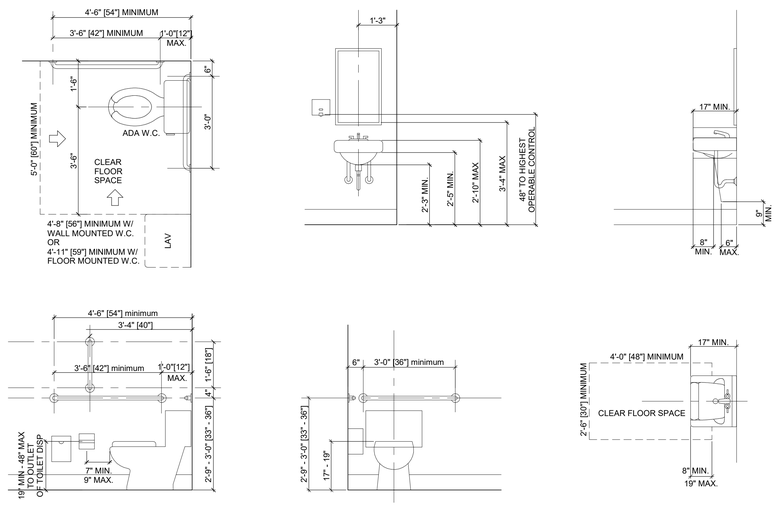
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULAR
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHEAD
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
PAV	PAVEMENT
PCC	PRECAST CONCRETE
PERM	PERMANENT
PL	PLASTIC
PL LAM	PLASTIC LAMINATE
PLMB	PLUMBING
PLT	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PPT	PRESSURE PRESERVATIVE TREATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
RAD	RADIUS
RB	RUBBER BASE
RD	ROOF DRAIN

REF	REFERENCE
REINF	REINFORCING
REQ	REQUIRED
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RMF	RUBBER MAT FLOORING (REMOVABLE)
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RTF	RUBBER TILE FLOORING
RTU	ROOF TOP UNIT
SC	SEALED CONCRETE
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SI	SQUARE INCH
SIM	SIMILAR
SK	SINK
SLNT	SEALANT
SOG	SLAB ON GRADE
SPC	SPACING
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SPMR	SINGLE PLY MEMBRANE ROOFING
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STD WGT	STANDARD WEIGHT
STL	STEEL
STN	STAIN

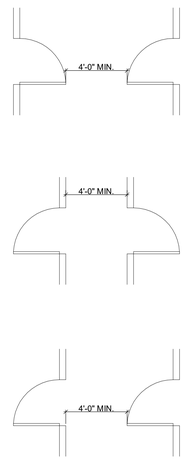
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SVF	SHEET VINLY FLOORING
SYM	SYMMETRICAL
SYN	SYNTHETIC
TB	TACK BOARD
TERR	TERRAZZO
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOFW	TOP OF FOUNDATION WALL
TOM	TOP OF MASONRY
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VARN	VARNISH
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VEN PL	VENEER PLASTER
VERT	VERTICAL
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WGT	WEIGHT
WP	WATERPROOF
WWF	WELDED WIRE FABRIC

ACCESSIBILITY STANDARDS

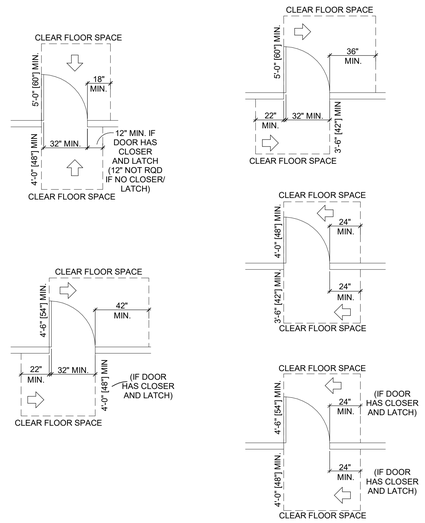
2018 ACCESSIBILITY CODE, SECTION 400, APPENDEX A, ILLUSTRATION B, PAGES 126 - 157



WATER CLOSETS / LAVATORIES



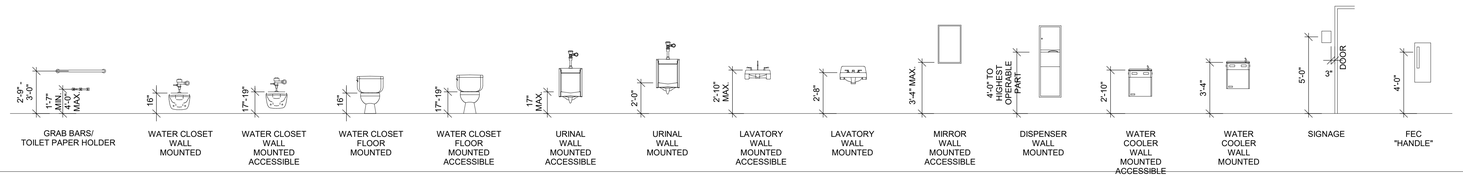
DOORS IN SEQUENCE



DOOR APPROACHES

TYPICAL MOUNTING HEIGHTS

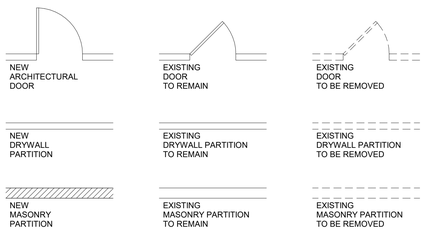
FIXTURE	HEIGHTS FROM FINISH FLOOR
LIGHT SWITCHES	44" TO CENTER (SEE ADJACENT)
ELECTRIC RECEPTACLES	15" TO BOTTOM (4" ABOVE BACKSPLASH WHEN LOCATED ABOVE COUNTERTOP)
FIRE ALARM PULL	44" TO CENTER (SEE ADJACENT)
FIRE ALARM BELL	84" TO CENTER
TOWEL DISPENSER	SEE ELEVATION BELOW
FIRE EXTINGUISHER CABINET	48" MAXIMUM TO HANDLE - MAX. 4" PROJECTION FROM WALL
DRINKING FOUNTAIN	40" TO SPOUT (STANDARD HEIGHT) / 36" TO SPOUT (ACCESSIBLE HEIGHT)
THERMOSTAT	44" TO CENTER
WALL-MOUNTED TELEPHONE	44" TO CENTER
STROBE LIGHT	80" TO TOP (OR 6" BELOW CEILING WHICHEVER IS LOWER)
GRAB BARS/HANDRAILS	33" - 36" TO CENTERLINE
TOILET PAPER DISPENSER	19" A.F.F. MIN. - 48" A.F.F. MAX. TO OUTLET OF DISPENSER
MIRROR	40" (LOWEST REFLECTIVE SURFACE)



GRAPHICAL SYMBOLS

ELEVATION / LEVEL LINE DESIGNATION	TOP OF FLOOR EL (+)1'-0"	ELEVATION HEIGHT DESCRIPTION
BUILDING SECTION	A501	BUILDING SECTION NUMBER DRAWING NUMBER
WALL SECTION	1 A501	WALL SECTION NUMBER DRAWING NUMBER
EXTERIOR ELEVATION	1 A501	EXTERIOR ELEVATION NUMBER DRAWING NUMBER
INTERIOR ELEVATION	1 4 A501 2 3	INTERIOR ELEVATION NUMBER(S) DRAWING NUMBER
DETAIL DESIGNATION	1 A501	DETAIL NUMBER DRAWING NUMBER
ROOM DESIGNATION	ROOM NAME 100	ROOM/SPACE NAME ROOM/SPACE NUMBER
DOOR DESIGNATION	100	DOOR NUMBER IS ASSIGNED TO THE ROOM IT SWINGS INTO
WINDOW DESIGNATION	W1	WINDOW NUMBER
KEY NOTE DESIGNATION	1	NOTE NUMBER
PARTITION WALL DESIGNATION	P1	PARTITION WALL TYPE NUMBER
REVISION DESIGNATION	1	REVISION NUMBER
COLUMN LINE DESIGNATION	1	COLUMN LINE IDENTIFICATION (NUMERICAL OR ALPHABETICAL)

DRAWING LEGEND



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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:

Sheet Info:

GENERAL INFORMATION

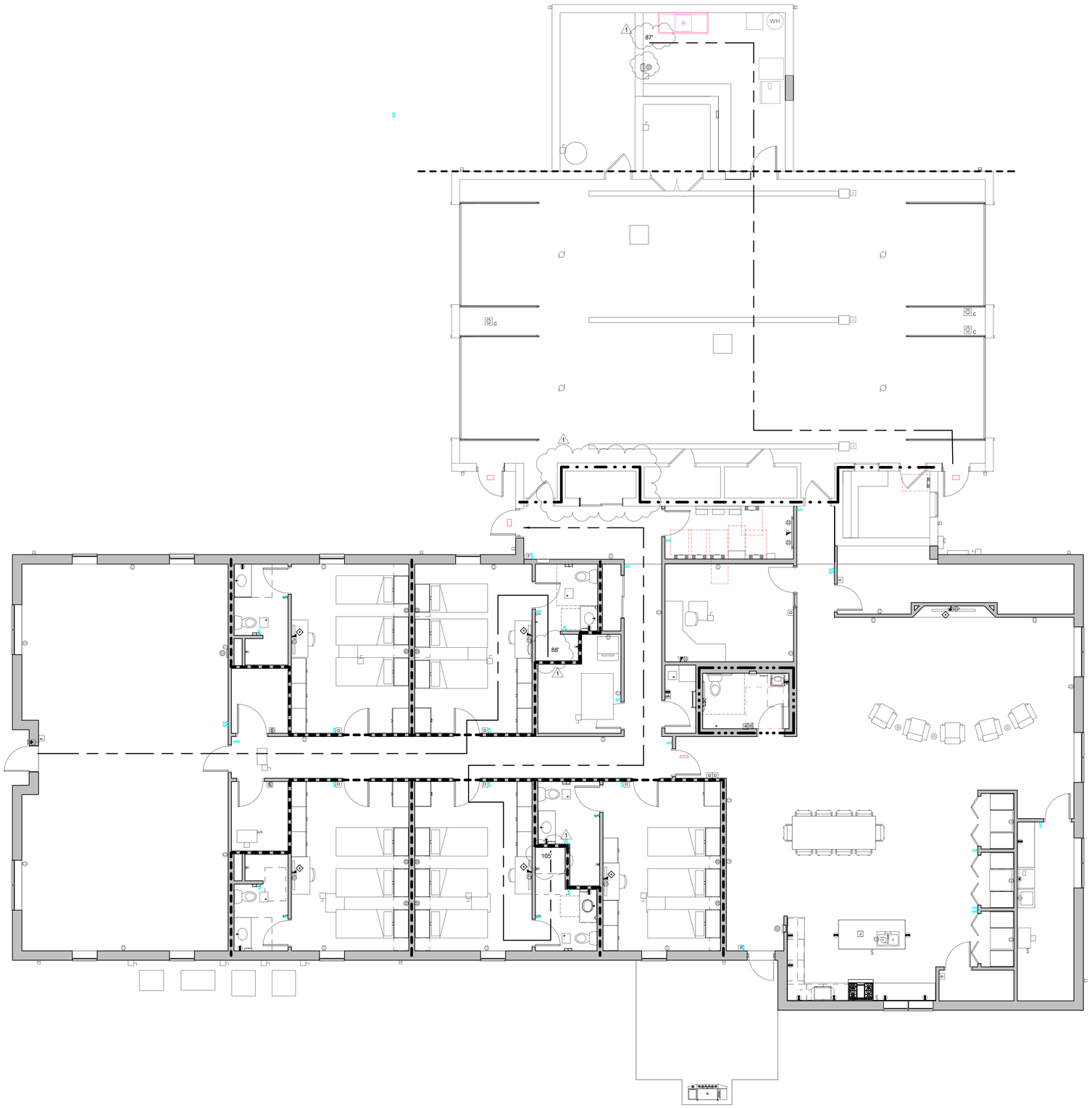
Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

G002

7/26/2022 8:37:27 PM

LIFE SAFETY PLAN LEGEND

	2 HR RATED WALL (EXISTING)
	1 HR RATED WALL (EXISTING)
	1 HR RATED WALL (EXISTING)
	1/2 HR RATED WALL
	TRAVEL DISTANCE
	FIRE EXTINGUISHER



1 LS101 FIRST FLOOR LIFE SAFETY PLAN
3/16" = 1'-0"

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OFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

Sheet Info:

LIFE SAFETY PLAN

Drawn By:	SW
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

LS101

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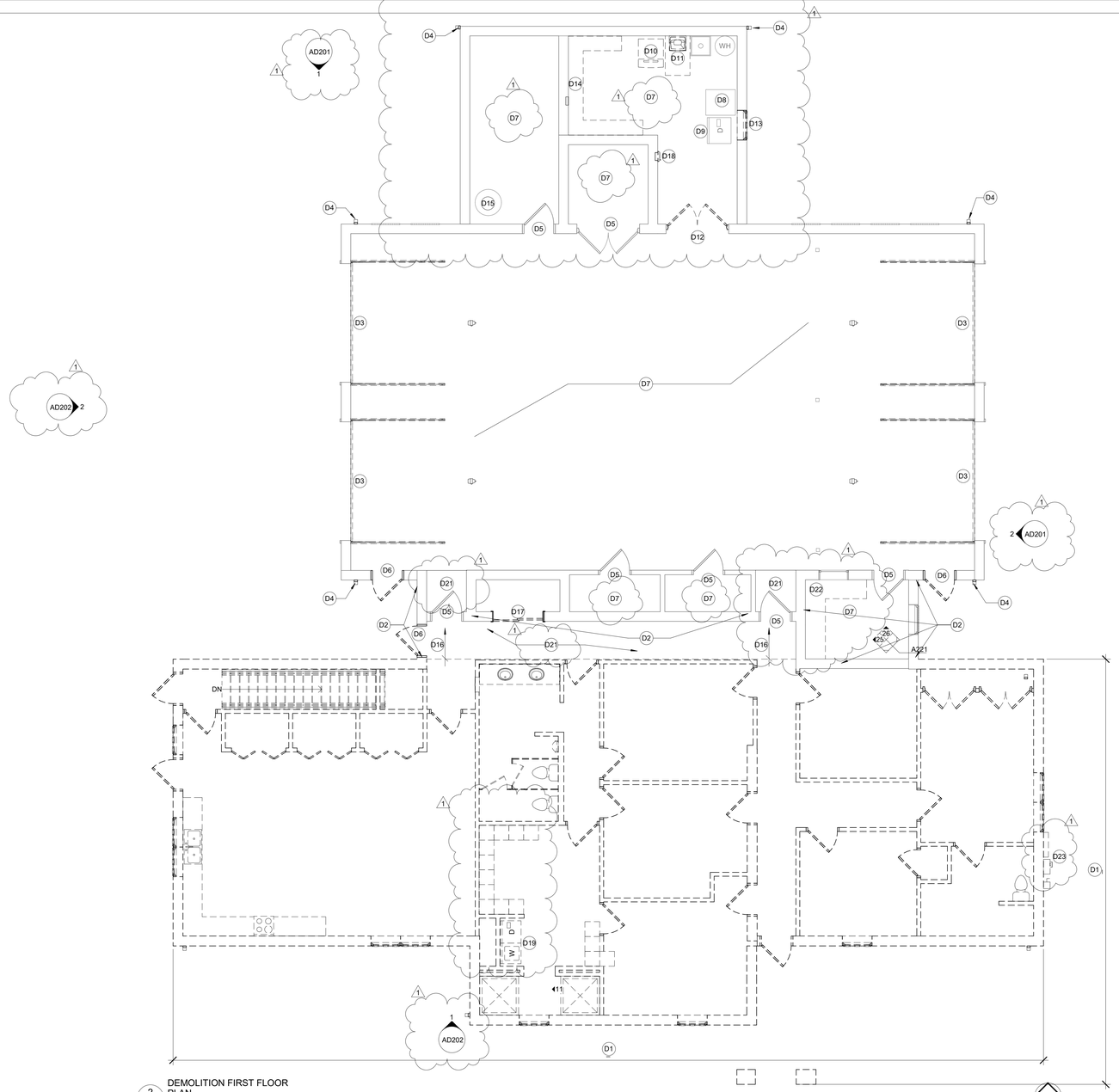
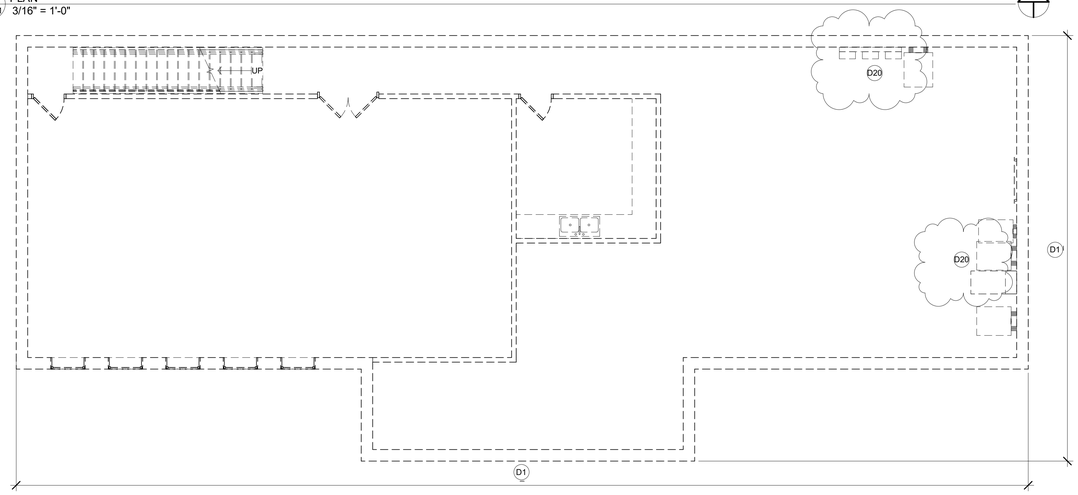


2 AD101 DEMOLITION FIRST FLOOR PLAN
3/16" = 1'-0"



1 AD101 LOWER LEVEL DEMOLITION FLOOR PLAN
3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. DEMOLISH EXISTING WALLS/FLOORS/CEILINGS AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR ADDITIONAL INFORMATION
3. REMOVE EXISTING CONSTRUCTION SHOWN IN HEAVY DASHED LINEWORK.
4. INFORMATION SHOWN IN LIGHT LINE WORK IS EXISTING CONSTRUCTION TO REMAIN.
5. THE DRAWING GENERALLY INDICATES THE EXTENT AND CHARACTERISTICS OF EXISTING MATERIALS AND SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
6. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORTS, FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENTS, HARDWARE AND RELATED DEVICES CONNECTED WITH WORK TO BE REMOVED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICE AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
7. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRICAL PANELS, AND ANY OTHER MISC. EQUIPMENT NOT REQUIRED FOR THE NEW WORK. REMOVE ALL RECESSED FLOOR BOXES, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
8. CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXECUTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
9. UNLESS NOTED OTHERWISE, ALL DEMOLISHED MATERIAL AND EQUIPMENT IS TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A SAFE AND LEGAL MANNER. NO ON SITE SALE OF MATERIAL IS ALLOWED.
10. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED, RECONDITIONED, AND PLACED IN PROPER OPERATION IN ALL MODES WITH THE ORIGINAL SYSTEMS.
11. IF INTERRUPTION OF ANY UTILITY SERVICE OCCURS DURING CONSTRUCTION OR DEMOLITION THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING (7) DAYS PRIOR TO THE WORK. THE CONTRACTOR SHALL SCHEDULE THIS WORK TO BE COMPLETED IN A TIMELY MANNER.
12. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS TO REMAIN IN SERVICE AND TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
13. ALL ABANDONED UTILITY LINES SHALL BE CAPPED IN A LEGAL MANNER BELOW THE FLOOR SLAB, ABOVE THE CEILING, OR IN AN EXISTING WALL TO REMAIN.
THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
15. PREPARE EXISTING SUB-FLOOR TO RECEIVE NEW FLOOR FINISH. PATCH ALL HOLES AS REQUIRED TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FLOOR FINISH.

FLOOR PLAN DEMOLITION KEYED NOTES

D1	COMPLETELY REMOVE EXISTING LIVING QUARTERS WING. REFER TO DEMOLITION FLOOR PLANS. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION AND FOR EXISTING FOUNDATION WALL LOCATIONS TO REMAIN. COORDINATE WITH MEP AND CIVIL DOCUMENTS.
D2	EXISTING WALL CONSTRUCTION TO REMAIN.
D3	REMOVE AND REPLACE EXISTING OVERHEAD DOOR, MOTOR, WEATHERSTRIPPING, ETC (KEEP PULL CORDS). (ALTERNATE BID NO. 1)
D4	REMOVE AND REPLACE EXISTNG GUTTER AND DOWNSPOUT (MATCH EXISTING SIZE/COLOR AT EXISTING BUILDING). EXISTING BOOT OR STORM PIPE RECEIVER TO REMAIN (IF APPLICABLE). (ALTERNATE BID NO. 2)
D5	EXISTING DOOR/FRAME/HARDWARE TO REMAIN.
D6	REMOVE EXISTING HOLLOW METAL ENTRANCE DOOR/FRAME/HARDWARE (ALTERNATE BID NO. 2). PREPARE ADJACENT SURFACES FOR INSTALLATION OF NEW DOOR/FRAME/HARDWARE.
D7	GRIND/PREPARE EXISTING FLOORING (INCLUDING MOISTURE MITIGATION) AS REQUIRED FOR INSTALLATION OF NEW EPOXY FLOOR SURFACE. (ALTERNATE BID NO. 1).
D8	EXISTING GEAR WASHER TO REMAIN.
D9	EXISTING DRYER.
D10	EXISTING ICE MAKER TO BE RELOCATED
D11	EXISTING SINK TO BE REMOVED. REFER TO PLUMBING DOCUMENTS.
D12	REMOVE EXISTING DOOR AND FRAME. PREPARE OPENING FOR NEW INFILL AND NEW DOOR AND FRAME.
D13	REMOVE EXISTING WINDOW. INFILL OPENING TO MATCH EXISTING WITH BRICK AND CMU. TOOTH BRICK IN AT JAMBS.
D14	EXISTING GEAR SHELF TO BE REMOVED. SALVAGE FOR REINSTALLATION.
D15	EXISTING COMPRESSOR TO REMAIN.
D16	EXISTING FLOOR SLAB TO REMAIN. REFER TO STRUCTURAL.
D17	REMOVE EXISTING DOOR. EXISTING FRAME TO REMAIN. REUSE EXISTING SLIDING DOOR HARDWARE.
D18	REMOVE EXISTING FIRE EXTINGUISHER CABINET. SALVAGE FOR REINSTALLATION. PATCH WALL ON PREPARATION FOR NEW FINISH.
D19	REMOVE EXISTING WASHER AND DRYER AND SALVAGE FOR REINSTALLATION.
D20	REFER TO ELECTRICAL DOCUMENTS FOR ELECTRICAL DEMOLITION.
D21	REMOVE EXISTING CERAMIC TILE AND WALL BASE. PREPARE SUB FLOOR AND WALLS AS REQUIRED FOR NEW FINISHES.
D22	REMOVE EXISTING BASE CABINETS, COUNTERTOPS AND WALL SHELF AS REQUIRED FOR NEW FLOOR WORK. (ALTERNATE BID NO. 1)
D23	REMOVE EXISTING ELECTRIC METR, DISCONNECT AND SOLAR PANEL EQUIPMENT. SALVAGE FOR RELOCATION. REFER TO THE ELECTRICAL DOCUMENTS.

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Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

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No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

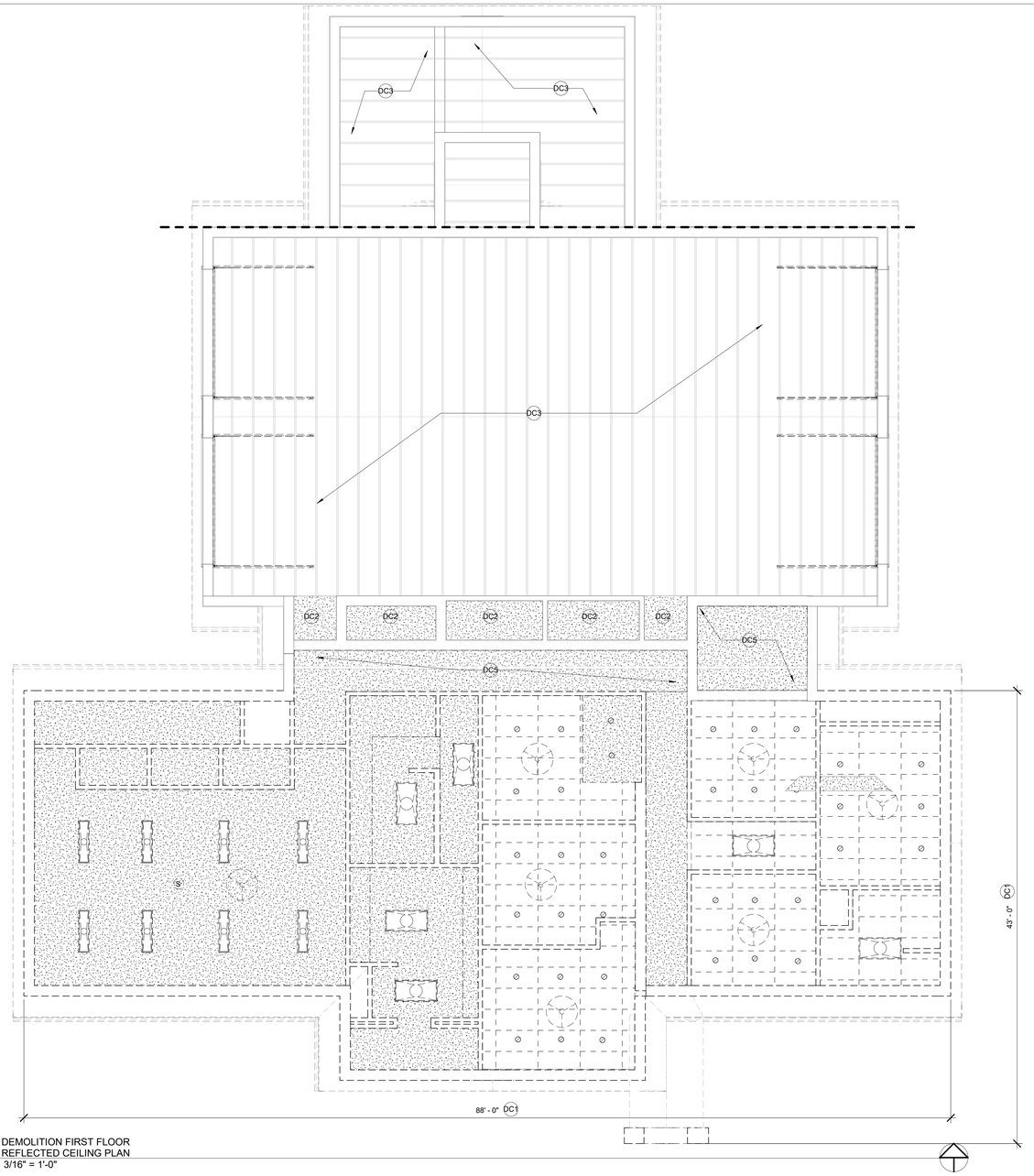
Sheet Info:

DEMOLITION FLOOR PLANS

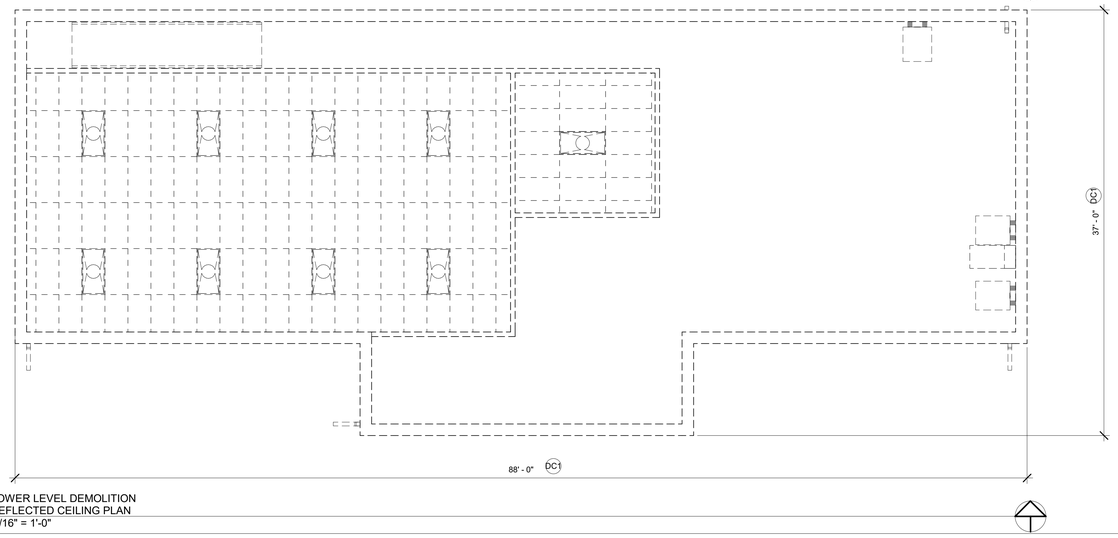
Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

AD101

7/26/2022 6:37:22 PM



2 AD121 DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"



1 AD121 LOWER LEVEL DEMOLITION REFLECTED CEILING PLAN
3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
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3. REMOVE EXISTING CONSTRUCTION SHOWN IN HEAVY DASHED LINEWORK.
4. INFORMATION SHOWN IN LIGHT LINE WORK IS EXISTING CONSTRUCTION TO REMAIN.
5. THE DRAWING GENERALLY INDICATES THE EXTENT AND CHARACTERISTICS OF EXISTING MATERIALS AND SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
6. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORTS, FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENTS, HARDWARE AND RELATED DEVICES CONNECTED WITH WORK TO BE REMOVED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICE AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
7. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRICAL PANELS, AND ANY OTHER MISC. EQUIPMENT NOT REQUIRED FOR THE NEW WORK. REMOVE ALL RECESSED FLOOR BOXES, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
8. CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXECUTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
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14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
15. PREPARE EXISTING SUB-FLOOR TO RECEIVE NEW FLOOR FINISH. PATCH ALL HOLES AS REQUIRED TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FLOOR FINISH.

DEMOLITION CEILING PLAN KEYED NOTES

DC1	COMPLETELY REMOVE EXISTING LIVING QUARTERS WING. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION. COORDINATE WITH MEP AND CIVIL DOCUMENTS.
DC2	EXISTING GWB CEILING TO REMAIN.
DC3	EXISTING EXPOSED STRUCTURE.
DC5	COMPLETELY REMOVE EXISTING GWB CEILING ASSEMBLY INCLUDING ALL HANGERS AND SUPPORTS, LIGHT, GRILLES, SPEAKERS, SMOKE DETECTORS, EXPANSION JOINTS ETC.

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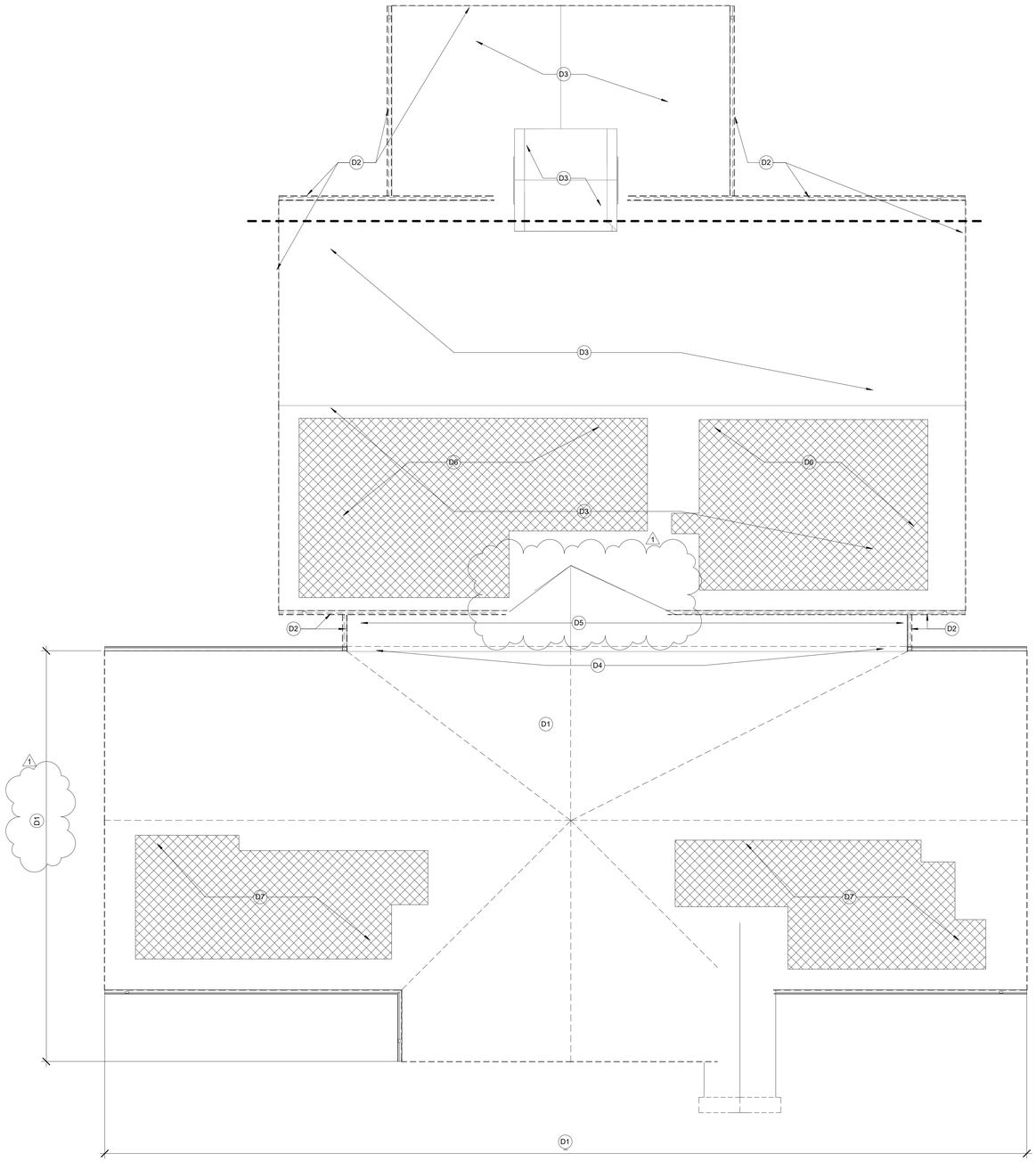
DEMOLITION REFLECTED CEILING PLANS

Drawn By:	CEC
Checked By:	Checker
Commission:	022-2036.3
Date:	2022-07-15

AD121

7/26/2022 6:37:23 PM



1 AD141 ROOF DEMOLITION PLAN
3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
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3. REMOVE EXISTING CONSTRUCTION SHOWN IN HEAVY DASHED LINEWORK.
4. INFORMATION SHOWN IN LIGHT LINE WORK IS EXISTING CONSTRUCTION TO REMAIN.
5. THE DRAWING GENERALLY INDICATES THE EXTENT AND CHARACTERISTICS OF EXISTING MATERIALS AND SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
6. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORTS, FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENTS, HARDWARE AND RELATED DEVICES CONNECTED WITH WORK TO BE REMOVED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICE AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
7. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRICAL PANELS, AND ANY OTHER MISC. EQUIPMENT NOT REQUIRED FOR THE NEW WORK. REMOVE ALL RECESSED FLOOR BOXES, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
8. CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXECUTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
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10. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED, RECONDITIONED, AND PLACED IN PROPER OPERATION IN ALL MODES WITH THE ORIGINAL SYSTEMS.
11. IF INTERRUPTION OF ANY UTILITY SERVICE OCCURS DURING CONSTRUCTION OR DEMOLITION THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING (7) DAYS PRIOR TO THE WORK. THE CONTRACTOR SHALL SCHEDULE THIS WORK TO BE COMPLETED IN A TIMELY MANNER.
12. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS TO REMAIN IN SERVICE AND TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
13. ALL ABANDONED UTILITY LINES SHALL BE CAPPED IN A LEGAL MANNER BELOW THE FLOOR SLAB, ABOVE THE CEILING, OR IN AN EXISTING WALL TO REMAIN. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
15. PREPARE EXISTING SUB-FLOOR TO RECEIVE NEW FLOOR FINISH. PATCH ALL HOLES AS REQUIRED TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FLOOR FINISH.

DEMOLITION ROOF KEYED NOTES

D1	COMPLETELY REMOVE EXISTING LIVING QUARTERS WING. REFER TO DEMOLITION FLOOR PLANS. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION AND FOR EXISTING FOUNDATION WALL LOCATIONS TO REMAIN. COORDINATE WITH MEP AND CIVIL DOCUMENTS.
D2	REFER TO SHEETS AD201 AND AD202 FOR DEMOLITION OF EXISTING GUTTERS, DOWNSPOUST, SOFFIT, AND FASCIA. (ALTERNATE BID NO. 2)
D3	REMOVE EXISTING ROOFING SINGLES, UNDERLAYMENT, ETC. (ALTERNATE BID NO. 2).
D4	REMOVE EXISTING ROOF AND ROOF FRAMING AS REQUIRED TO ALLOW FOR NEW ADDITION. REFER TO STRUCTURAL.
D5	REMOVE EXISTING ROOFING SINGLES, UNDERLAYMENT, ETC. PREPARE FOR NEW ROOFING.
D6	EXISTING SOLAR PANELS TO BE REMOVED AND REINSTALLED AS REQUIRED BY ALTERNATE BID NO. 2 ROOF REPLACEMENT.
D7	EXISTING SOLAR PANELS TO BE REMOVED AND REINSTALLED ON NEW ADDITION.

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1	2022-07-26	ADD 2 / Permit

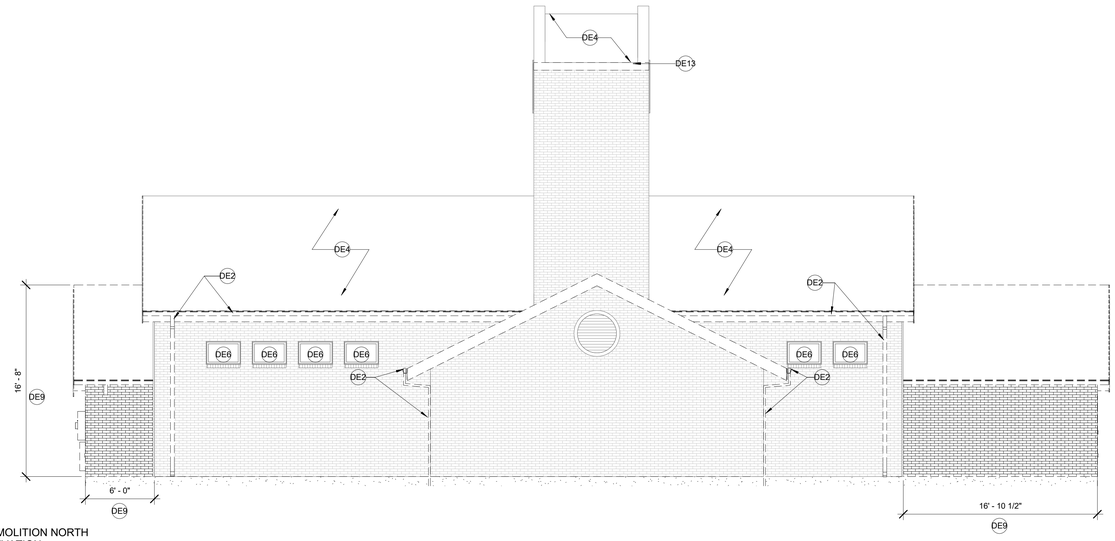
Sheet Info:

DEMOLITION ROOF PLAN

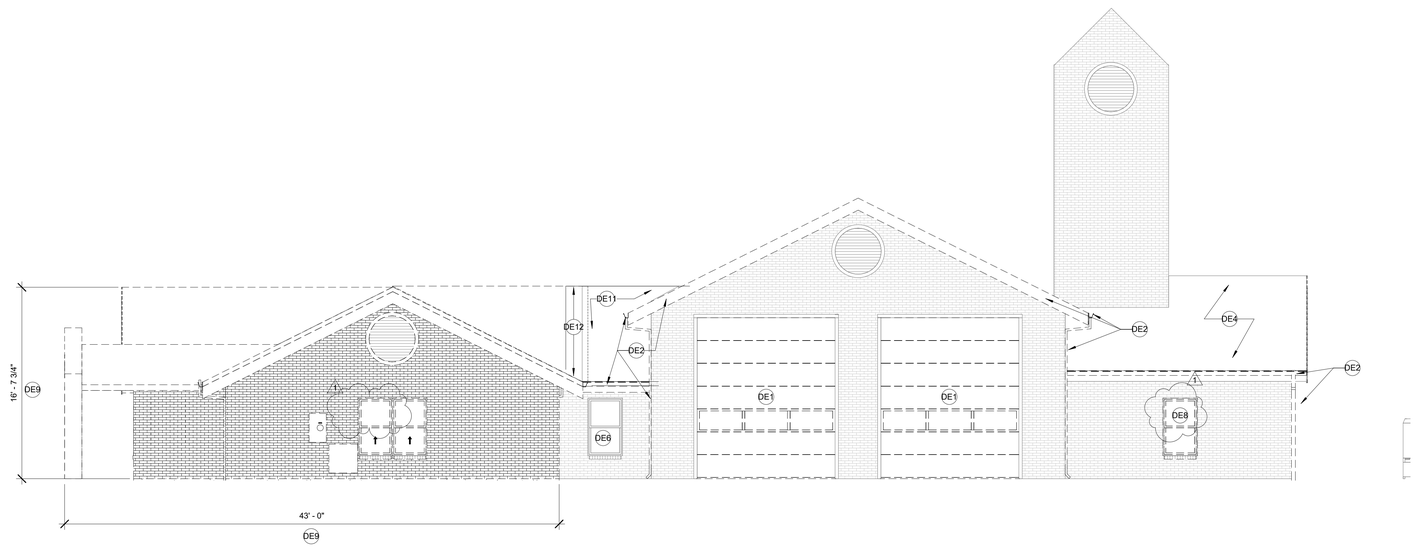
Drawn By:	CEC
Checked By:	Checker
Commission:	022-2036.3
Date:	2022-07-15

AD141

7/26/2022 6:37:24 PM



1 AD201 DEMOLITION NORTH ELEVATION
3/16" = 1'-0"



2 AD201 DEMOLITION EAST ELEVATION
3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. DEMOLISH EXISTING WALLS/FLOORS/CEILINGS AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR ADDITIONAL INFORMATION
3. REMOVE EXISTING CONSTRUCTION SHOWN IN HEAVY DASHED LINEWORK.
4. INFORMATION SHOWN IN LIGHT LINE WORK IS EXISTING CONSTRUCTION TO REMAIN.
5. THE DRAWING GENERALLY INDICATES THE EXTENT AND CHARACTERISTICS OF EXISTING MATERIALS AND SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
6. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORTS, FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENTS, HARDWARE AND RELATED DEVICES CONNECTED WITH WORK TO BE REMOVED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICE AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
7. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRICAL PANELS, AND ANY OTHER MISC. EQUIPMENT NOT REQUIRED FOR THE NEW WORK. REMOVE ALL RECESSED FLOOR BOXES, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
8. CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXECUTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
9. UNLESS NOTED OTHERWISE, ALL DEMOLISHED MATERIAL AND EQUIPMENT IS TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A SAFE AND LEGAL MANNER. NO ON SITE SALE OF MATERIAL IS ALLOWED.
10. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED, RECONDITIONED, AND PLACED IN PROPER OPERATION IN ALL MODES WITH THE ORIGINAL SYSTEMS.
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12. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS TO REMAIN IN SERVICE AND TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
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14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
15. PREPARE EXISTING SUB-FLOOR TO RECEIVE NEW FLOOR FINISH. PATCH ALL HOLES AS REQUIRED TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FLOOR FINISH.

DEMOLITION EXTERIOR ELEVATION...

DE1	REMOVE AND REPLACE EXISTNG OVERHEAD DOOR, MOTOR, WEATHERSTRIPPING, ETC. (ALTERNATE BID NO. 1)
DE2	REMOVE AND REPLACE EXISTNG GUTTERS, DOWNSPOUTS, SOFFITS AND FASCIA. MATCH EXISTING SIZE/PROFILE/COLOR. EXISTING BOOT OR STORM PIPE RECEIVER TO REMAIN (IF APPLICABLE). (ALTERNATE BID NO. 2)
DE3	REMOVE EXISTING HOLLOW METAL ENTRANCE DOOR/FRAME/HARDWARE. PREPARE ADJACENT SURFACES FOR INSTALLATION OF NEW DOOR/FRAME/HARDWARE. (ALTERNATE BID NO. 2)
DE4	REMOVE EXISTING ROOFING SINGLES, UNDERLAYMENT, ETC. PREPARE FOR NEW ROOFING (ALTERNATE BID NO. 2).
DE6	EXISTING WINDOW TO REMAIN.
DE7	DEMO EXISTING ALUMINUM ENTRANCE.
DE8	EXISTING WINDOW TO BE REMOVED. EXISTING ROWLOCK SILL TO BE REMOVED. INFILL OPENING TO MATCH EXISTING CONSTRUCTION. TOOTH IN MASONRY. MAYCH EXISTING BRICK COLOR, TEXTURE AND INSTALLATION PATTERN.
DE9	COMPLETELY REMOVE EXISTING LIVING QUARTERS WING. REFER TO DEMOLITION FLOOR PLANS. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION AND FOR EXISTING FOUNDATION WALL LOCATIONS TO REMAIN. COORDINATE WITH MEP AND CIVIL DOCUMENTS.
DE10	NOT USED.
DE11	REMOVE EXISTING ROOFING SINGLES, UNDERLAYMENT, ETC. PREPARE FOR NEW ROOFING.
DE12	REMOVE EXISTING ROOF AND ROOF FRAMING AS REQUIRED TO ALLOW FOR NEW ADDITION. REFER TO STRUCTURAL.
DE13	REMOVE EXISTING FASCIA. PREPARE FOR NEW FASCIA (ALTERNATE BID NO. 2).

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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

Sheet Info:

DEMOLITION ELEVATIONS

Drawn By:	CEC
Checked By:	Checker
Commission:	022-2036.3
Date:	2022-07-15

AD201

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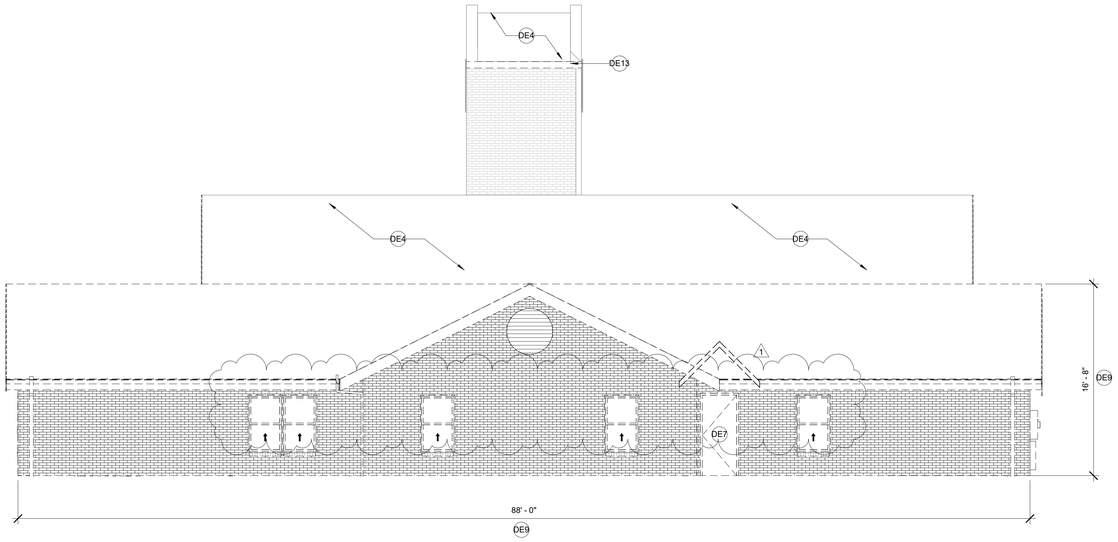
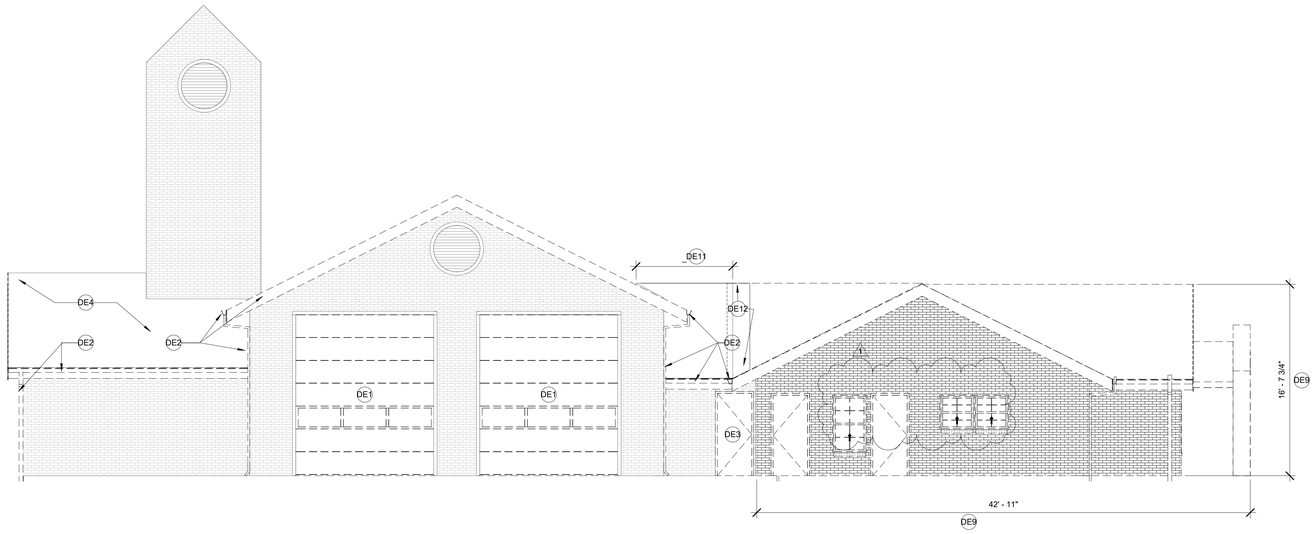


1 AD202 DEMOLITION SOUTH ELEVATION
3/16" = 1'-0"



2 AD202 DEMOLITION WEST ELEVATION
3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. DEMOLISH EXISTING WALLS/FLOORS/CEILINGS AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR ADDITIONAL INFORMATION
3. REMOVE EXISTING CONSTRUCTION SHOWN IN HEAVY DASHED LINEWORK.
4. INFORMATION SHOWN IN LIGHT LINE WORK IS EXISTING CONSTRUCTION TO REMAIN.
5. THE DRAWING GENERALLY INDICATES THE EXTENT AND CHARACTERISTICS OF EXISTING MATERIALS AND SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
6. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORTS, FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENTS, HARDWARE AND RELATED DEVICES CONNECTED WITH WORK TO BE REMOVED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICE AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
7. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRICAL PANELS, AND ANY OTHER MISC. EQUIPMENT NOT REQUIRED FOR THE NEW WORK. REMOVE ALL RECESSED FLOOR BOXES, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
8. CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXECUTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
9. UNLESS NOTED OTHERWISE, ALL DEMOLISHED MATERIAL AND EQUIPMENT IS TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A SAFE AND LEGAL MANNER. NO ON SITE SALE OF MATERIAL IS ALLOWED.
10. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED, RECONDITIONED, AND PLACED IN PROPER OPERATION IN ALL MODES WITH THE ORIGINAL SYSTEMS.
11. IF INTERRUPTION OF ANY UTILITY SERVICE OCCURS DURING CONSTRUCTION OR DEMOLITION THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING (7) DAYS PRIOR TO THE WORK. THE CONTRACTOR SHALL SCHEDULE THIS WORK TO BE COMPLETED IN A TIMELY MANNER.
12. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS TO REMAIN IN SERVICE AND TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
13. ALL ABANDONED UTILITY LINES SHALL BE CAPPED IN A LEGAL MANNER BELOW THE FLOOR SLAB, ABOVE THE CEILING, OR IN AN EXISTING WALL TO REMAIN. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DEMOLITION AND PATCHING (TO MATCH EXISTING) REQUIRED TO INSTALL NEW WORK.
15. PREPARE EXISTING SUB-FLOOR TO RECEIVE NEW FLOOR FINISH. PATCH ALL HOLES AS REQUIRED TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FLOOR FINISH.

DEMOLITION EXTERIOR ELEVATION...

DE1	REMOVE AND REPLACE EXISTNG OVERHEAD DOOR, MOTOR, WEATHERSTRIPPING, ETC. (ALTERNATE BID NO. 1)
DE2	REMOVE AND REPLACE EXISTNG GUTTERS, DOWNSPOUTS, SOFFITS AND FASCIA. MATCH EXISTING SIZE/PROFILE/COLOR. EXISTING BOOT OR STORM PIPE RECEIVER TO REMAIN (IF APPLICABLE). (ALTERNATE BID NO. 2)
DE3	REMOVE EXISTING HOLLOW METAL ENTRANCE DOOR/FRAME/HARDWARE. PREPARE ADJACENT SURFACES FOR INSTALLATION OF NEW DOOR/FRAME/HARDWARE. (ALTERNATE BID NO. 2)
DE4	REMOVE EXISTING ROOFING SINGLES, UNDERLAYMENT, ETC. PREPARE FOR NEW ROOFING (ALTERNATE BID NO. 2)
DE6	EXISTING WINDOW TO REMAIN.
DE7	DEMO EXISTING ALUMINUM ENTRANCE.
DE8	EXISTING WINDOW TO BE REMOVED. EXISTING ROWLOCK SILL TO BE REMOVED. INFILL OPENING TO MATCH EXISTING CONSTRUCTION. TOOTH IN MASONRY. MAYCH EXISTING BRICK COLOR, TEXTURE AND INSTALLATION PATTERN.
DE9	COMPLETELY REMOVE EXISTING LIVING QUARTERS WING. REFER TO DEMOLITION FLOOR PLANS. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION AND FOR EXISTING FOUNDATION WALL LOCATIONS TO REMAIN. COORDINATE WITH MEP AND CIVIL DOCUMENTS.
DE10	NOT USED.
DE11	REMOVE EXISTING ROOFING SINGLES, UNDERLAYMENT, ETC. PREPARE FOR NEW ROOFING.
DE12	REMOVE EXISTING ROOF AND ROOF FRAMING AS REQUIRED TO ALLOW FOR NEW ADDITION. REFER TO STRUCTURAL.
DE13	REMOVE EXISTING FASCIA. PREPARE FOR NEW FASCIA (ALTERNATE BID NO. 2).

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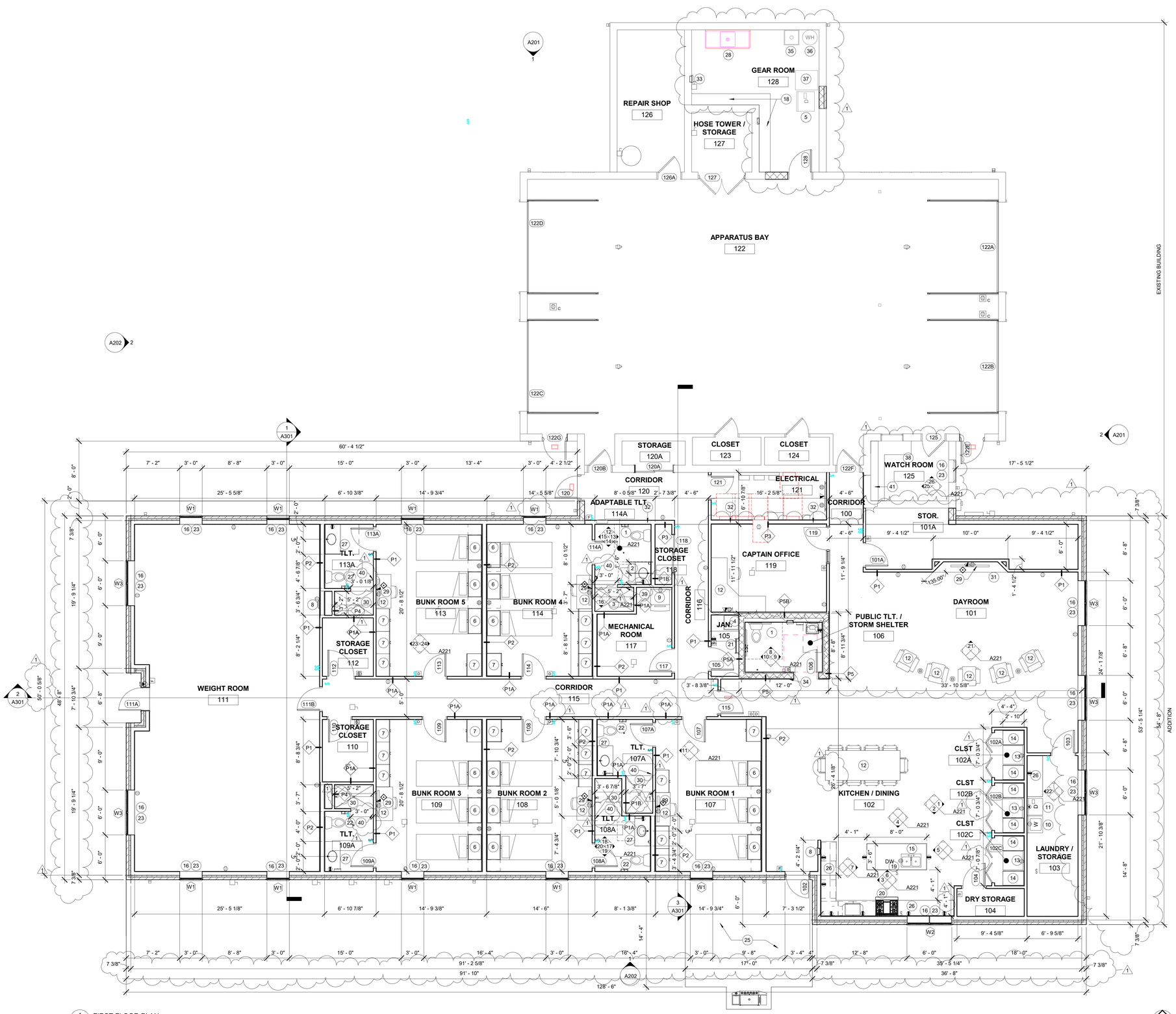
AD202

7/26/2022 6:37:26 PM



1 FIRST FLOOR PLAN
A101 3/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. REFER TO CIVIL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DOCUMENTS FOR ADDITIONAL INFORMATION.
3. INTERIOR WALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD.
4. INFORMATION SHOWN IN LIGHT LINE WORK IS EXISTING CONSTRUCTION.
5. THE DRAWINGS GENERALLY INDICATE THE EXTENT AND CHARACTERISTICS OF EXISTING MATERIALS AND SYSTEMS. THE CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXECUTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. THE CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
6. REFER TO ROOM FINISH SCHEDULE, DOOR SCHEDULE AND WALL TYPES FOR ADDITIONAL INFORMATION.
7. THE PAINTING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL PAINT AND TOUCH UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF ALL EQUIPMENT.
8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS TO REMAIN IN SERVICE AND TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. CONTRACTOR TO COORDINATE WITH THE OWNER FOR THE INSTALLATION OF EQUIPMENT SUPPLIED UNDER A SEPARATE CONTRACTS.
10. ALL FURNITURE AND EQUIPMENT INDICATED ON PLAN IS FOR REFERENCE ONLY (OWNER PROVIDED AND INSTALLED), UNLESS OTHERWISE INDICATED.
11. THE CONTRACTOR SHALL PROVIDE FIRE RETARDANT WOOD BLOCKING OR HEAVY GAUGE SHEET METAL BLOCKING AS REQUIRED FOR THE INSTALLATION OF ALL MILLWORK, TOILET ACCESSORIES, HANDRAILS, EQUIPMENT, ETC.
12. PROVIDE CONTROL JOINTS ON THE STRIKE SIDE OF ALL DOOR JAMBS LOCATED IN NEW PARTITIONS.
13. PENETRATIONS THROUGH NEW FIRE RATED WALLS SHALL BE FIRESTOPPED BY THE RESPECTIVE TRADE CONTRACTOR. PROVIDE A FIRESTOPPING MATERIAL EQUAL TO THE FIRE RATING OF THE WALL, FLOOR, CEILING OR ROOF BEING PENETRATED.
14. ALL WALLS TO BE PARTITION TYPE P1 UNLESS NOTED OTHERWISE. REFER TO SHEET A601 FOR PARTITION TYPES.
15. REFER TO SPECIFICATIONS FOR REQUIRED INTERIOR SIGNAGE. COORDINATE FINAL LOCATION OF NON-ROOM SPECIFIC SIGNAGE WITH OWNER.
16. IF INTERRUPTION OF ANY UTILITY SERVICE IS REQUIRED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING (7) DAYS PRIOR TO THE WORK. THE CONTRACTOR SHALL SCHEDULE THIS WORK TO BE COMPLETED IN A TIMELY MANNER.

FIRST FLOOR PLAN KEYED NOTES

1	ACCESSIBLE WATER CLOSET WITH THE FLUSH HANDLE ON THE WIDE SIDE OF THE TOILET. REFER TO THE INTERIOR ELEVATIONS AND THE PLUMBING DOCUMENTS.
2	SOLID SURFACE COUNTERTOP WITH ACCESSIBLE UNDERMOUNT BOWL AND PLASTIC LAMINATE APRON. REFER TO THE INTERIOR ELEVATIONS AND THE PLUMBING DOCUMENTS.
3	ROLL-IN ACCESSIBLE SHOWER. FLOOR TO SLOPE TO SHOWER DRAIN. REFER TO THE INTERIOR ELEVATIONS AND THE PLUMBING DOCUMENTS.
4	MOP BASIN. REFER TO THE PLUMBING DOCUMENTS.
5	EXISTING DRYER. REFER TO EQUIPMENT SCHEDULE.
6	MURPHY BED. INSTALL WALL BLOCKING AS REQUIRED. REFER TO EQUIPMENT PLAN. SICO ROOM MAKER SERIES WALLBED SYSTEM - CUSTOM ARMOIRE STYE, TWIN X-L WALL-BED MECHANISMS WITH TWIN XL MATTRESS. INCLUDE NIGHT STAND BETWEEN BEDS.
7	TALL WARDROBE. REFER TO EQUIPMENT PLAN. TO BE A PART OF THE SICO ROOM MAKER SYSTEM.
8	SEMI RECESSED FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER.
9	RELOCATED ICE MACHINE. REFER TO EQUIPMENT PLAN.
10	RELOCATED WASHING MACHINE. REFER TO EQUIPMENT PLAN.
11	RELOCATED DRYER. REFER TO EQUIPMENT PLAN.
12	FURNITURE. REFER TO EQUIPMENT PLAN.
13	REFRIGERATOR. REFER TO EQUIPMENT PLAN.
14	BUILT-IN SOLID SURFACE SHELVING UNIT. SIZE TO PROVIDE OPENING FOR REFRIGERATOR. PROVIDE 5 SHELVES.
15	NEW SOLID SURFACE COUNTERTOP WITH STAINLESS STEEL SINK. REFER TO INTERIOR ELEVATIONS.
16	NEW SOLID SURFACE WINDOW SILL AT ALL EXISTING WINDOWS. NOTE THAT ALL WINDOWS DO NOT SHOW IN THE FLOOR PLAN. REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS.
18	RECONFIGURE AND REINSTALL EXISTING GEAR BENCH AND SHELVING AT LOCATIONS SHOWN.
19	DISHWASHER. REFER TO EQUIPMENT PLAN.
20	RANGE. REFER TO EQUIPMENT PLAN
21	STEEL LADDER TO ATTIC ACCESS HATCH.
22	WATER CLOSET. REFER TO PLUMBING DOCUMENTS.
23	WINDOW SHADE (WS-1)
25	PATIO AND GAS GRILL. REFER TO CIVIL.
26	SOLID SURFACE COUNTERTOP. REFER TO INTERIOR ELEVATIONS.
27	SOLID SURFACE COUNTERTOP WITH UNDERMOUNT BOWL. REFER TO THE INTERIOR ELEVATIONS AND THE PLUMBING DOCUMENTS.
28	NEW SINGLE COMPARTMENT SINK WITH INTEGRAL DRAIN BOARDS ON EACH SIDE. REFER TO PLUMBING DOCUMENTS.
29	WALL MOUNTED TV. REFER TO EQUIPMENT PLAN.
30	ROLL-IN SHOWER. RESTROOM FLOOR TO SLOPE TO SHOWER DRAIN. REFER TO THE INTERIOR ELEVATIONS AND THE PLUMBING DOCUMENTS.
31	SOLID SURFACE COUNTERTOP. REFER TO INTERIOR ELEVATIONS.
32	REFER TO STRUCTURAL FOR LOAD BEARING WALL.
33	RELOCATED FIRE EXTINGUISHER CABINET.
34	PROVIDE ICC $00 STORM SHELTER SIGNAGE.
35	EXISTING MOP BASIN TO REMAIN.
36	EXISTING WATER HEATER TO REMAIN.
37	EXISTING GEAR EXTRACTOR TO REMAIN.
38	NEW PLASTIC LAMINATE BASE CABINETS AND SOLID SURFACE WIRK SURFACE. REFER TO INTERIOR ELEVATIONS. (ALTERNATE BID NO. 1).
39	INSTALL BLOCKING IN THE WALL AT THE DESIGNATED LOCATION FOR POSSIBLE FUTURE FOLD DOWN SHOWER SEAT.
40	INSTALL WALL MOUNTED TOWEL/ROBE HOOK AT LOCATION SHOWN. PROVIDE WALL BLOCKING AS REQUIRED. BOBRICK B-6827 OR EQUAL.
41	NEW 13" DEEP PLASTIC LAMINATE WALL SHELF WITH KNAPE & VOGT ULTIMATE L BRACKETS. 12" DEEP X 8" HIGH (TITANIUM FINISH)(USE 4 BRACKETS). VERIFY SHELF HEIGHT WITH OWNER.

STORM SHELTER OCCUPANCY CALCULATION:

ACTUAL OCCUPANCY:
4 FIRST RESPONDERS / SHIFT
4 ADDITIONAL FIRST RESPONDERS AT SHIFT CHANGE

7 X 5 S.F. PER PERSON = 35 S.F.	= 35 S.F.
1 X 10 S.F. PER PERSON WHEEL CHAIR SPACE	= 10 S.F.
TOTAL USABLE SQUARE FT. REQUIRED	= 45 S.F.
TOTAL USABLE SQURE FT. PROVIDED	= 49 S.F.

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Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

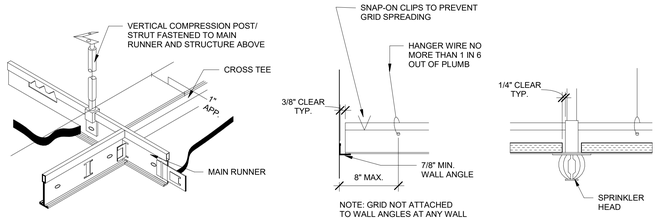
Sheet Info:

FIRST FLOOR PLAN

Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

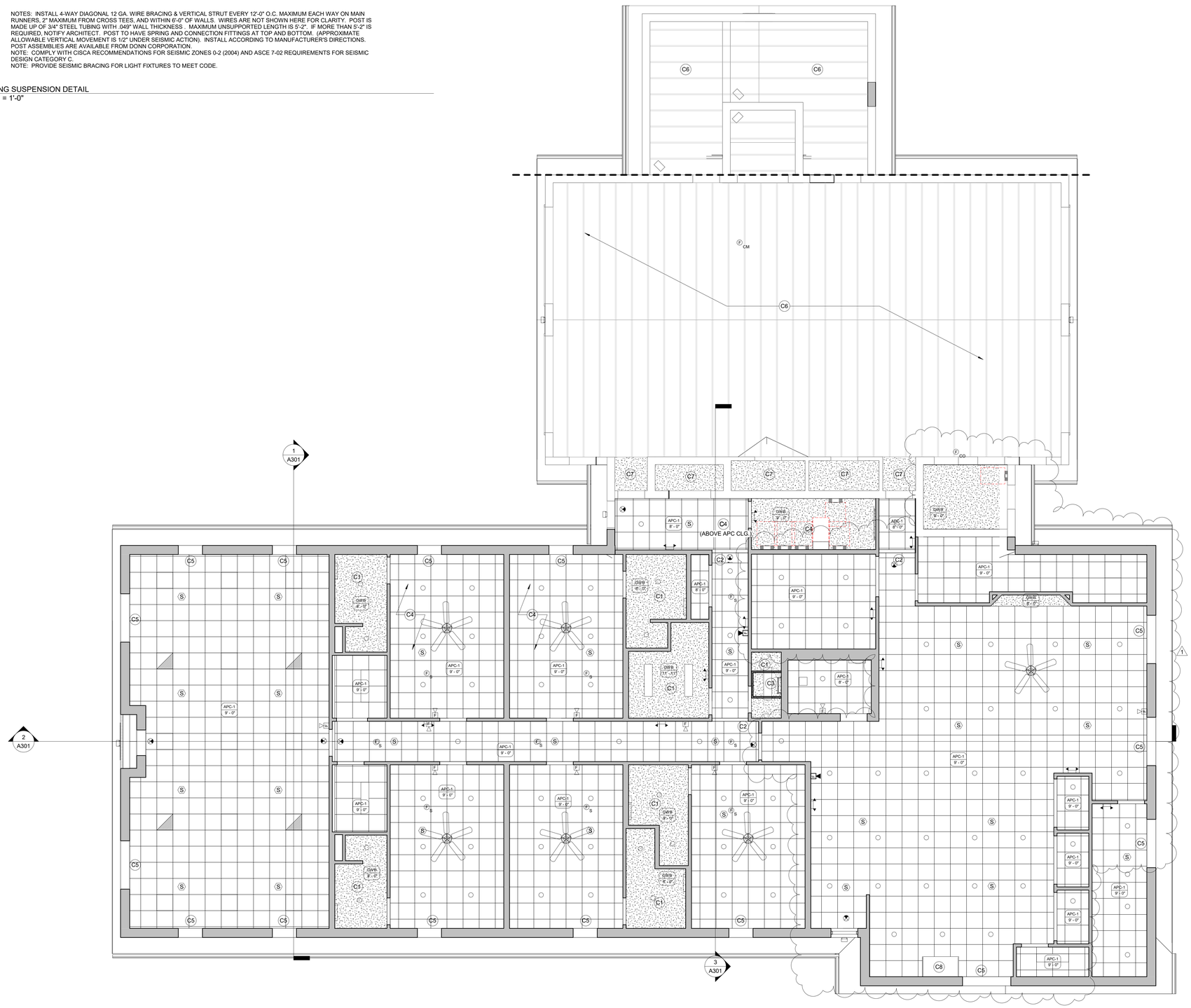
A101

7/26/2022 6:37:08 PM



NOTES: INSTALL 4-WAY DIAGONAL 12 GA. WIRE BRACING & VERTICAL STRUT EVERY 12'-0" O.C. MAXIMUM EACH WAY ON MAIN RUNNERS, 2" MAXIMUM FROM CROSS TEES, AND WITHIN 6'-0" OF WALLS. WIRES ARE NOT SHOWN HERE FOR CLARITY. POST IS MADE UP OF 3/4" STEEL TUBING WITH .049" WALL THICKNESS . MAXIMUM UNSUPPORTED LENGTH IS 5'-2". IF MORE THAN 5'-2" IS REQUIRED, NOTIFY ARCHITECT. POST TO HAVE SPRING AND CONNECTION FITTINGS AT TOP AND BOTTOM. (APPROXIMATE ALLOWABLE VERTICAL MOVEMENT IS 1/2" UNDER SEISMIC ACTION). INSTALL ACCORDING TO MANUFACTURER'S DIRECTIONS. POST ASSEMBLIES ARE AVAILABLE FROM DONN CORPORATION.
NOTE: COMPLY WITH CISCA RECOMMENDATIONS FOR SEISMIC ZONES 0-2 (2004) AND ASCE 7-02 REQUIREMENTS FOR SEISMIC DESIGN CATEGORY C.
NOTE: PROVIDE SEISMIC BRACING FOR LIGHT FIXTURES TO MEET CODE.

2 / A121 CEILING SUSPENSION DETAIL
1 1/2" = 1'-0"



1 / A121 FIRST FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"

REFLECTED CEILING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DOCUMENTS FOR ADDITIONAL INFORMATION.
2.REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION.
3. INTERIOR WALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD.
4. REFER TO ROOM FINISH SCHEDULE FOR CEILING HEIGHTS AND TYPES.
5. THE PAINTING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL PAINT AND TOUCH UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF ALL EQUIPMENT.
6. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS.
7. CONTRACTOR TO COORDINATE WITH THE OWNER FOR THE INSTALLATION OF EQUIPMENT SUPPLIED UNDER A SEPARATE CONTRACTS.
8. PENETRATIONS THROUGH NEW FIRE RATED WALLS SHALL BE FIRESTOPPED BY THE RESPECTIVE TRADE CONTRACTOR. PROVIDE A FIRESTOPPING MATERIAL EQUAL TO THE FIRE RATING OF THE WALL, FLOOR, CEILING OR ROOF BEING PENETRATED.

REFLECTED CEILING PLAN KEYED NOTES

C1	NEW GWB CEILING.
C2	NEW GWB BULKHEAD (PAINTED). BOTTOM OF BULKHEAD TO BE 1" BELOW LOWEST ADJACENT CEILING.
C3	ATTIC ACCESS HATCH AND LADDER. PROVIDIE PLYWOOD WALKWAY IN ATTIC TO ACCESS MECHANICAL EQUIPMENT. COORDINATE WITH MEP.
C4	GYPSUM WALL BOARD OVER 6 MIL VAPOR BARRIER ON BOTTOM CHORD OF TRUSSES. RE-INSULATE ATTIC AS REQUIRED WHERE DISTURBED BY NEW CONSTRUCTION. TYPICAL AT CONNECTING WING BETWEEN APPARATUS BAY AND BUNK HOUSE.
C5	WINDOW SHADE (WS-1)
C6	EXISTING EXPOSED STRUCTURE. SCRAPE/PREPARE AS REQUIRED FOR NEW PAINT FINISH. (ALTERNATE BID NO. 1)
C7	EXISTING GWB CEILING. PREPARE AS REQUIRED FOR NEW PAINT FINISH. (ALTERNATE BID NO. 1)
C8	HOOD. REFER TO HVAC DOCUMENTS.

1

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Drawn By:	CEC
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A121

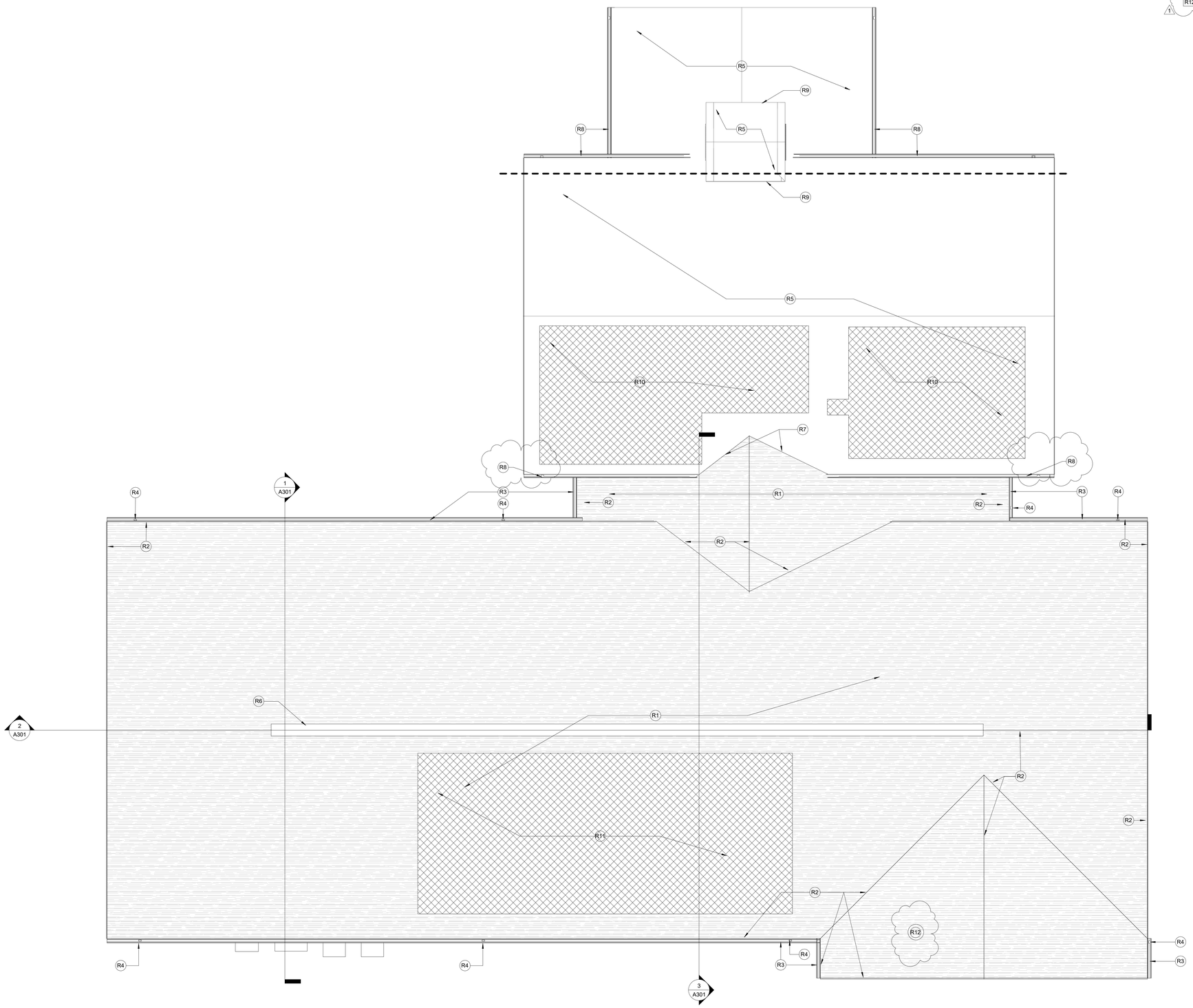
7/26/2022 6:37:09 PM

ROOF PLAN GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION.
3. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS TO PROVIDE FOR THE TIMELY INSTALLATION FO EQUIPMENT, PIPING, ETC.
4. COORDINATE WITH OWNER FOR THE INSTALLATION OF EQUIPMENT SUPPLIED UNDER A SEPARATE CONTRACT.

ROOF PLAN KEYED NOTES

R1	ROOF CONSTRUCTION: ASPHALT SHINGLES, 30# ROOFING FELT, 5/8" EXTERIOR GRADE PLYWOOD, PRE-ENGINEERED ROOF TRUSSES.
R2	ICE & WATER GUARD. EXTEND FROM EDGE OF EAVE AND RAKE TO MINIMUM 24" BEYOND INSIDE FACE OF EXTERIOR WALL LINE AND 36" FROM RIDGE & 18" ON EACH SIDE OF HIP/VALLEY
R3	PRE-FINISHEDALUMINUM GUTTER. (4.5" TALL X 6" WIDE).
R4	PRE-FINISHED ALUMINUM DOWNSPOUT (SIZE 3"X5") RECTANGULAR CORRIGATED
R5	ALTERNATE BID NO. 2: REMOVE EXISTING ASPHALT SHINGLE ROOFING AND UNDERLAYMENT. INSTALL NEW ASPHALT SINGLES, 30# ROOFING FELT, AND ICE AND WATER GUARD IN LOCATIONS AS NOTED IN KEYED NOTE R2. REPLACE EXISTING RIDGE VENT TO MATCH EXISTING. PROVIDE (2) LAYERS OF FELT ON ROOFS WITH 2/12 - 4/12 SLOPES.
R6	RIDGE VENT. 95' LONG GAF COBRA RIDGE VENT 3 OR EQUAL. (MIN. 1,703 SQ. IN EXHAUST)
R7	RE-ROOF EXISTING CONNECTING WING. TIE INTO EXISTING ROOFING. PROVIDE VALLEY FLASHING.
R8	NEW GUTTERS, DOWNSPOUTS, SOFFITS AND FASCIA. MATCH EXISTING SIZE/PROFILE/COLOR. EXISTING BOOT OR STORM PIPE RECEIVER TO REMAIN (IF APPLICABLE). (ALTERNATE BID NO. 2) REFER TO EXTERIOR ELEVATIONS FOR DOWNSPOUT LOCATIONS.
R9	NEW FASCIA TO MATCH EXISTING SIZE/PROFILE/COLOR. (ALTERNATE BID NO. 2)
R10	SOLAR PANELS TO BE REMOVED AND REINSTALLED AS REQUIRED BY ALTERNATE BID NO. 2 ROOF REPLACEMENT.
R11	SOLAR PANELS TO BE REINSTALLED AT NEW ADDTION. MAINTAIN ROOF WARRANTY.
R12	KITCHEN HOOD EXHAUST FAN REFER TO HVAC DOCUMENTS.



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

ATTIC VENTILATION REQUIREMENTS:

ADDITION:
7,095 S.F. UNDER NEW ROOF
7,095/300 = 23.96 x 144 = 3,406 SQ. IN.
3,406 / 2 = 1,703 SQ. IN HIGH / 1,703 SQ. IN LOW

PROVIDE VENTED ALUMINUM SOFFIT TO MATCH EXISTING. PROVIDE A MINIMUM OF 1,703 SQ. IN. OF INTAKE IN ADDITION SOFFIT.

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ROOF PLAN

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A141

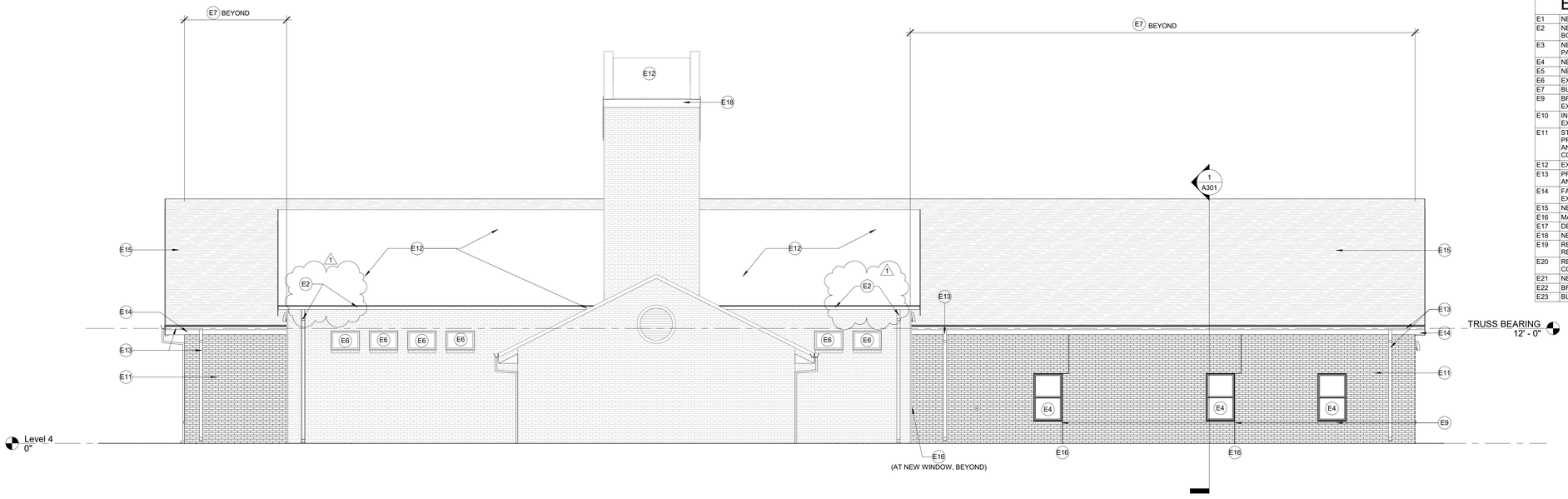
7/26/2022 6:37:10 PM

EXTERIOR ELEVATION GENERAL NOTES

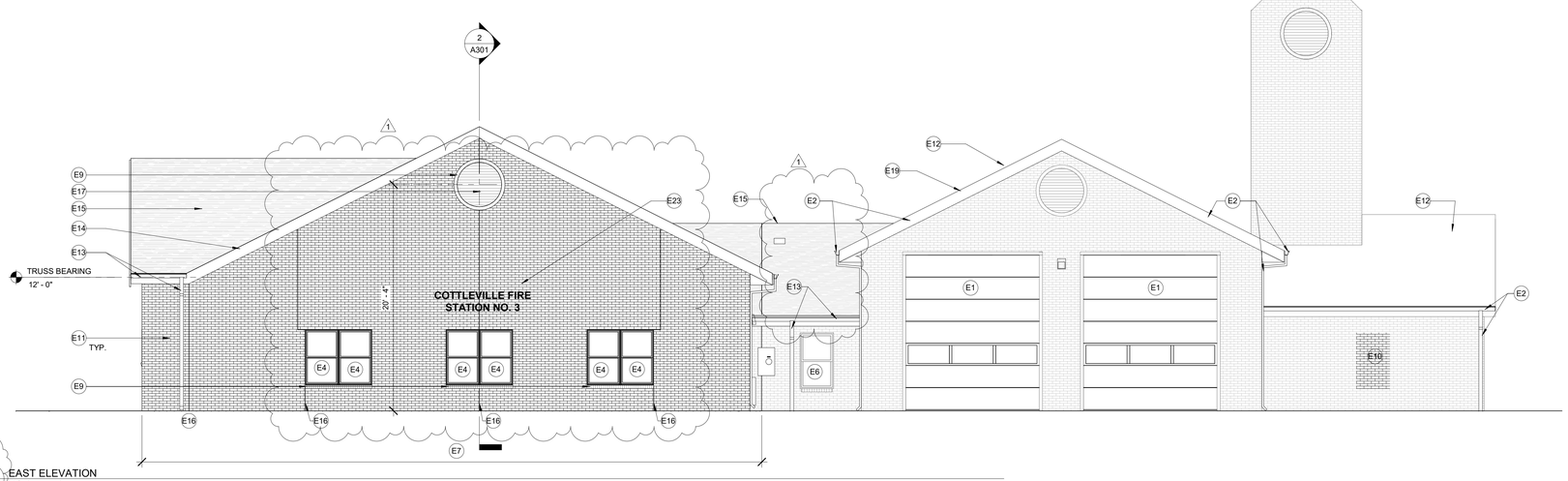
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION.
3. EXTERIOR WALL DIMENSIONS ARE FROM FACE OF FOUNDATION/SHEATHING.
4. THE PAINTING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL PAINT AND TOUCH UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF ALL EQUIPMENT.
5. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS AND TO PROVIDE FOR THE TIMELY INSTALLATION OF EQUIPMENT, PIPING, ETC.
6. CONTRACTOR TO COORDINATE WITH THE OWNER FOR THE INSTALLATION OF EQUIPMENT SUPPLIED UNDER A SEPARATE CONTRACTS.

EXTERIOR ELEVATION KEYED NOTES

E1	NEW OVERHEAD DOOR, MOTOR, WEATHERSTRIPPING, ETC. (ALTERNATE BID NO. 1)
E2	NEW GUTTERS, DOWNSPOUTS, SOFFITS AND FASCIA. MATCH EXISTING SIZE/PROFILE/COLOR. EXISTING BOOT OR STORM PIPE RECEIVER TO REMAIN (IF APPLICABLE). (ALTERNATE BID NO. 2)
E3	NEW INSULATED HOLLOW METAL ENTRANCE DOOR/FRAME/HARDWARE. DOOR AND FRAME TO BE PAINTED. REFER TO DOOR SCHEDULE. (ALTERNATE BID NO. 2)
E4	NEW WINDOW. REFER TO WINDOW TYPES.
E5	NEW ALUMINUM STOREFRONT.
E6	EXISTING WINDOW TO REMAIN.
E7	BUILDING ADDITION. REFER TO FLOOR PLANS AND STRUCTURAL DOCUMENTS.
E9	BRICK ROWLOCK SILL TO MATCH EXISTING CONSTRUCTION. BRICK TO BE LIGHT BRICK TO MATCH EXISTING ROWLOCK SILLS.
E10	INFILL EXISTING OPENING TO MATCH EXISTING CONSTRUCTION. BRICK COLOR AND TEXTURE TO MATCH EXISTING. MATCH EXISTING BRICK FLEMISH HEADER PATTERN. TOOTH IN MASONRY.
E11	STARTING WITH THE 6TH COURSE COURSE EVERY 6TH TO BE FLEMISH HEADERS TO MATCH EXISTING. PROJECT FLEMISH HEADER LIGHT BRICK TO MATCH EXISTING. MATCH EXISTING BRICK COLOR, TEXTURE AND PATTERN. ALIGN WITH EXISTING PATTERN. NOTE: MATCH EXISTING LIGHT AND DARK BRICK COLORS.
E12	EXISTING ASPHALT SHINGLE ROOF TO BE REPLACED. (ALTERNATE BID NO. 2) REFER TO ROOF PLAN.
E13	PRE-FINISHED ALUMINUM GUTTER AND DOWNSPOUTS. REFER TO ROOF PLAN FOR SIZING OF GUTTERS AND DOWNSPOUTS.
E14	FASCIA WRAPPED IN PRE-FINISHED ALUMINUM. FASCIA TO MATCH SIZE OF EXISTING AND TO ALIGN WITH EXISTING.
E15	NEW ASPHALT SHINGLES TO MATCH EXISTING. REFER TO ROOF PLAN.
E16	MASONRY CONTROL JOINT.
E17	DECORATIVE LOUVER - 48" DIAMETER - FYPON RLV48 OR EQUAL, PAINTED.
E18	NEW FASCIA WRAPPED IN PRE-FINISHED ALUMINUM TO MATCH EXISTING. (ALTERNATE BID NO. 2)
E19	REMOVAL AND REINSTALLATION OF SOLAR PANELS AS REQUIRED BY ALTERNATE BID NO. 2 ROOF REPLACEMENT TO BE COORDINATED WITH OWNER.
E20	REMOVAL AND REINSTALLATION OF SOLAR PANELS AS REQUIRED BY NEW ADDITION TO BE COORDINATED WITH OWNER.
E21	NEW DOOR. REFER TO DOOR SCHEDULE.
E22	BRICK SOLDIER COURSE. BRICK TO BE LIGHT COLOR BRICK.
E23	BUILDING SIGNAGE. REFER TO PROJECT SPECIFICATIONS FOR ALLOWANCE.



1 A201 NORTH ELEVATION
3/16" = 1'-0"



2 A201 EAST ELEVATION
3/16" = 1'-0"

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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

Sheet Info:

EXTERIOR ELEVATIONS

Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

A201

7/26/2022 8:37:12 PM

EXTERIOR ELEVATION GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION.
3. EXTERIOR WALL DIMENSIONS ARE FROM FACE OF FOUNDATION/SHEATHING.
4. THE PAINTING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL PAINT AND TOUCH UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF ALL EQUIPMENT.
5. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS AND TO PROVIDE FOR THE TIMELY INSTALLATION OF EQUIPMENT, PIPING, ETC.
6. CONTRACTOR TO COORDINATE WITH THE OWNER FOR THE INSTALLATION OF EQUIPMENT SUPPLIED UNDER A SEPARATE CONTRACTS.

EXTERIOR ELEVATION KEYED NOTES

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E2	NEW GUTTERS, DOWNSPOUTS, SOFFITS AND FASCIA. MATCH EXISTING SIZE/PROFILE/COLOR. EXISTING BOOT OR STORM PIPE RECEIVER TO REMAIN (IF APPLICABLE). (ALTERNATE BID NO. 2)
E3	NEW INSULATED HOLLOW METAL ENTRANCE DOOR/FRAME/HARDWARE. DOOR AND FRAME TO BE PAINTED. REFER TO DOOR SCHEDULE. (ALTERNATE BID NO. 2)
E4	NEW WINDOW. REFER TO WINDOW TYPES.
E5	NEW ALUMINUM STOREFRONT.
E6	EXISTING WINDOW TO REMAIN.
E7	BUILDING ADDITION. REFER TO FLOOR PLANS AND STRUCTURAL DOCUMENTS.
E9	BRICK ROWLOCK SILL TO MATCH EXISTING CONSTRUCTION. BRICK TO BE LIGHT BRICK TO MATCH EXISTING ROWLOCK SILLS.
E10	INFILL EXISTING OPENING TO MATCH EXISTING CONSTRUCTION. BRICK COLOR AND TEXTURE TO MATCH EXISTING. MATCH EXISTING BRICK FLEMISH HEADER PATTERN. TOOTH IN MASONRY.
E11	STARTING WITH THE 6TH COURSE COURSE EVERY 6TH TO BE FLEMISH HEADERS TO MATCH EXISTING. PROJECT FLEMISH HEADER LIGHT BRICK TO MATCH EXISTING. MATCH EXISTING BRICK COLOR, TEXTURE AND PATTERN. ALIGN WITH EXISTING PATTERN. NOTE: MATCH EXISTING LIGHT AND DARK BRICK COLORS.
E12	EXISTING ASPHALT SHINGLE ROOF TO BE REPLACED. (ALTERNATE BID NO. 2) REFER TO ROOF PLAN.
E13	PRE-FINISHED ALUMINUM GUTTER AND DOWNSPOUTS. REFER TO ROOF PLAN FOR SIZING OF GUTTERS AND DOWNSPOUTS.
E14	FASCIA WRAPPED IN PRE-FINISHED ALUMINUM. FASCIA TO MATCH SIZE OF EXISTING AND TO ALIGN WITH EXISTING.
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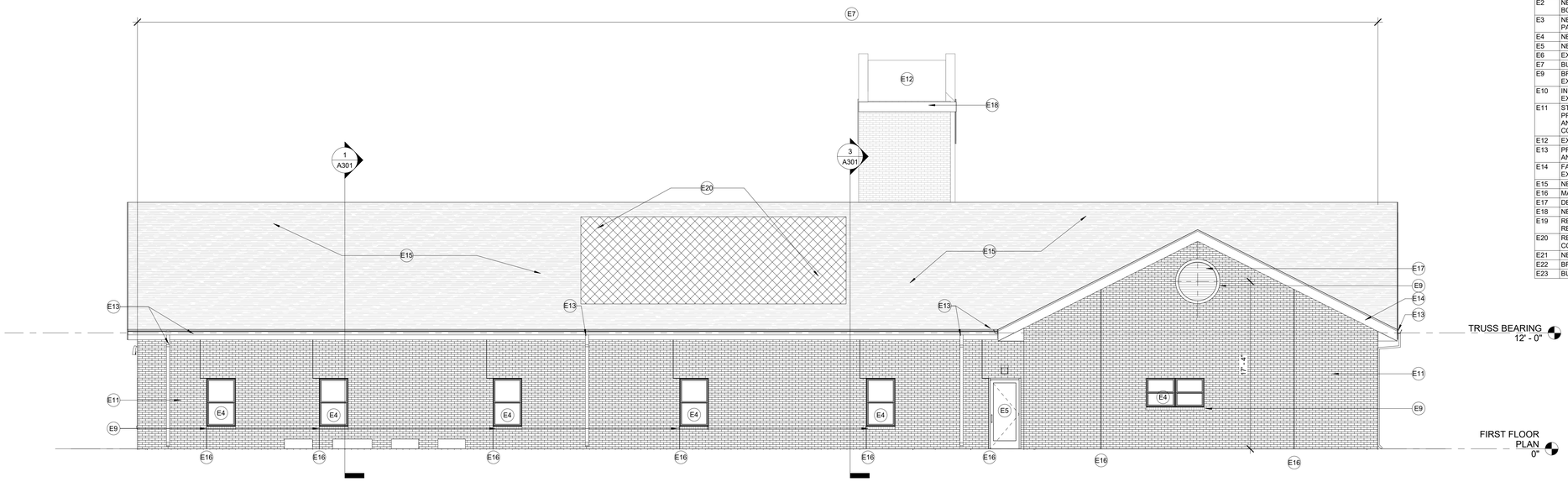
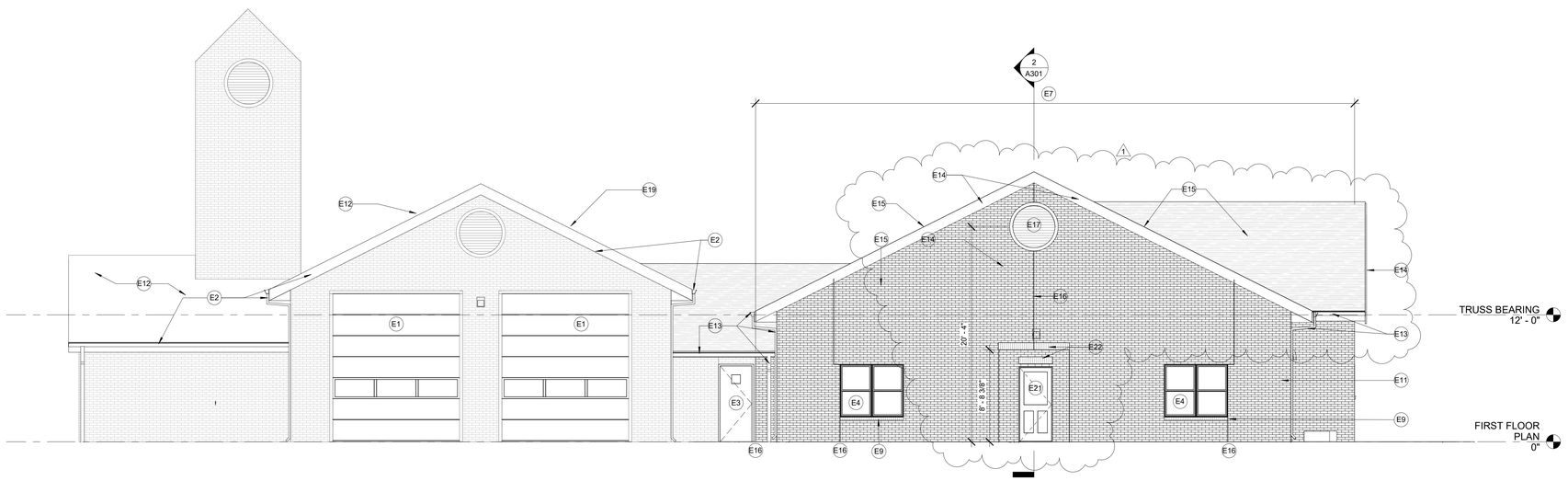
E20	REMOVAL AND REINSTALLATION OF SOLAR PANELS AS REQUIRED BY NEW ADDITION TO BE COORDINATED WITH OWNER.
E21	NEW DOOR. REFER TO DOOR SCHEDULE.
E22	BRICK SOLDIER COURSE. BRICK TO BE LIGHT COLOR BRICK.
E23	BUILDING SIGNAGE. REFER TO PROJECT SPECIFICATIONS FOR ALLOWANCE.



1 / A202 SOUTH ELEVATION
3/16" = 1'-0"



2 / A202 WEST ELEVATION
3/16" = 1'-0"

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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

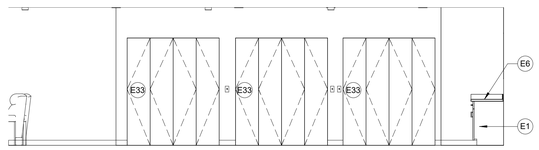
Sheet Info:

EXTERIOR ELEVATIONS

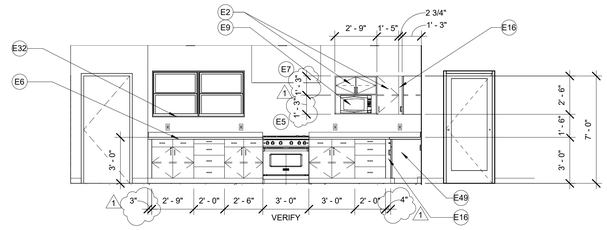
Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

A202

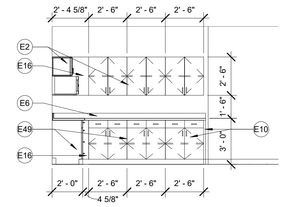
7/26/2022 6:37:13 PM



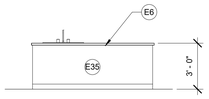
1 A221 KITCHEN / DINING - EAST
1/4" = 1'-0"



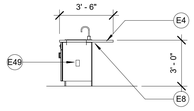
2 A221 KITCHEN / DINING - SOUTH
1/4" = 1'-0"



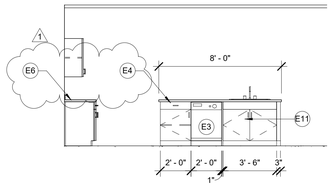
3 A221 KITCHEN / DINING - WEST
1/4" = 1'-0"



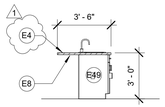
4 A221 KITCHEN / DINING ISLAND - NORTH
1/4" = 1'-0"



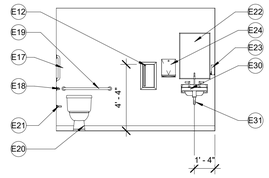
5 A221 KITCHEN / DINING ISLAND - EAST
1/4" = 1'-0"



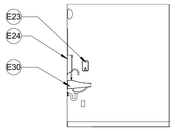
6 A221 KITCHEN / DINING ISLAND - SOUTH
1/4" = 1'-0"



7 A221 KITCHEN / DINING ISLAND - WEST
1/4" = 1'-0"



8 A221 PUBLIC TOILET / STORM SHELTER - NORTH
1/4" = 1'-0"



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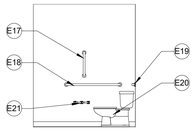
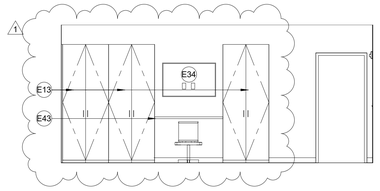
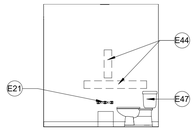
1/4" = 1'-0"



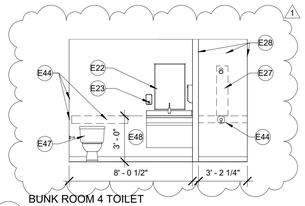
10 A221 PUBLIC TOILET / STORM SHELTER- WEST
1/4" = 1'-0"



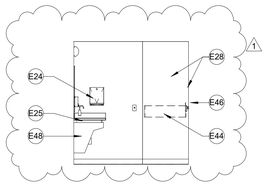
11 A221 BUNKROOM 1 (TYPICAL)
1/4" = 1'-0"



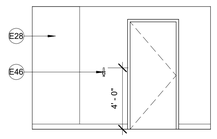
12 A221 BUNK ROOM 4 TOILET (ADAPTABLE) - NORTH
1/4" = 1'-0"



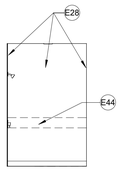
13 A221 BUNK ROOM 4 TOILET (ADAPTABLE) - EAST
1/4" = 1'-0"



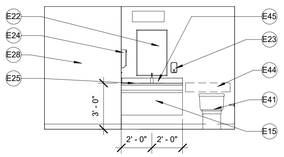
14 A221 BUNK ROOM 4 TOILET (ADAPTABLE) - SOUTH
1/4" = 1'-0"



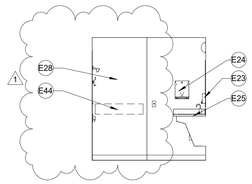
15 A221 BUNK ROOM 4 TOILET (ADAPTABLE) WEST
1/4" = 1'-0"



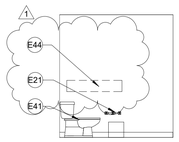
16 A221 BUNK ROOM 4 SHOWER (ADAPTABLE) - SOUTH
1/4" = 1'-0"



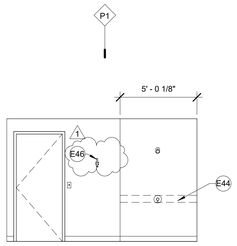
17 A221 BUNK ROOM 2 TOILET - EAST
1/4" = 1'-0"



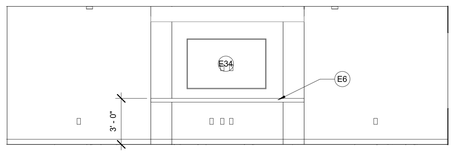
18 A221 BUNK ROOM 2 TOILET - NORTH
1/4" = 1'-0"



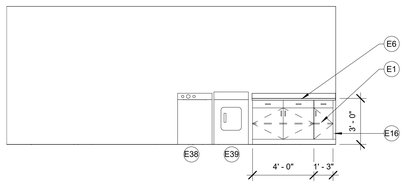
19 A221 BUNK ROOM 2 TOILET - SOUTH
1/4" = 1'-0"



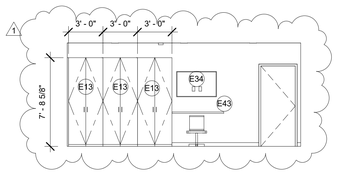
20 A221 BUNK ROOM 2 TOILET - WEST
1/4" = 1'-0"



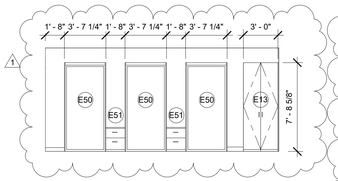
21 A221 DAYROOM - NORTH
1/4" = 1'-0"



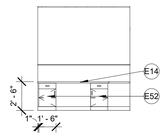
22 A221 LAUNDRY / STORAGE - WEST
1/4" = 1'-0"



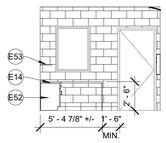
23 A221 Elevation 1 - b
3/16" = 1'-0"



24 A221 Elevation 1 - d
3/16" = 1'-0"



25 A221 WATCH ROOM 125 - WEST
3/16" = 1'-0"



26 A221 WATCH ROOM 125 - NORTH
3/16" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION OF MILLWORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT.
3. ALL MILLWORK TO BE AWI "CUSTOM" GRADE.
4. ALL BASE/WALL CABINETS TO HAVE PLASTIC LAMINATE FINISH UNLESS NOTED OTHERWISE. REFER TO ROOM FINISH SCHEDULE FOR COUNTERTOP FINISH.
5. ALL FILE CABINETS ARE TO ACCOMMODATE FILE SIZE HANGING FILES. HANGING FILE RACK IS TO BE BUILT-IN.
6. ALL OUTSIDE CORNERS OF COUNTERTOPS TO HAVE A 2" RADIUS.
7. ALL BASE CABINETS AND KNEE SPACES TO HAVE VINYL BASE. PROVIDE SOLID BACKING AS REQUIRED.
8. ALL BASE CABINETS TO HAVE ONE ADJUSTABLE SHELF AND ALL WALL CABINETS TO HAVE TWO ADJUSTABLE SHELVES UNLESS NOTED OTHERWISE.
9. ALL CABINETS TO HAVE 4" WIRE PULLS.
10. PROVIDE A 3" DIA. GROMMET WITH PLASTIC INSERT AT EACH WORK SPACE / KNEE SPACE.
11. REFER TO THE EQUIPMENT SCHEDULE FOR ADDTIONAL INFORMATION.
12. THE CONTRACTOR SHALL PROVIDE WOOD OR HEAVY GAUGE SHEET METAL BLOCKING FOR THE INSTALLATION OF ALL MILLWORK, TOILET ACCESSORIES, HANDRAILS, ETC. AS REQUIRED.
13. PROVIDE MOLDED VINYL PIPE COVERS ON ALL EXPOSED PLUMBING AT WALL SINKS.
14. ALL COUNTERTOP SUPPORT BRACKETS TO BE PAINTED TO MATCH THE WALL COLOR UNLESS OTHERWISE NOTED.
16. ALL COUNTERTOPS ARE TO HAVE SELF EDGE WITH COVER BACKSPLASH/ENDSPLASH.

INTERIOR ELEVATION KEYED NOTES

E1	NEW PLASTIC LAMINATE BASE CABINETS.
E2	NEW ARCHITECTURAL WOOD WALL CABINETS.
E3	NEW DISHWASHER. REFER TO EQUIPMENT SCHEDULE.
E4	SOLID SURFACE COUNTERTOP/BACKSPLASH WITH UNDERMOUNT STAINLESS STEEL DOUBLE BASIN SINK. REFER TO PLUMBING DOCUMENTS.
E5	NEW RANGE. REFER TO EQUIPMENT SCHEDULE.
E6	SOLID SURFACE COUNTERTOP.
E7	NEW HOOD. REFER TO MECHANICAL DOCUMENTS.
E8	PROVIDE BRACKETS AS REQUIRED FOR COUNTERTOP OVERHANG.
E9	MICROWAVE SHELF
E10	PROVIDE END PANEL TO ALLOW FOR REMOVABLE BASE CABINET. EXTEND FLOORING INTO FUTURE KNEE SPACE. FINISH WALLS AND SIDE PANELS IN FUTURE KNEE SPACE. COUNTERTOP TO BE ADJUSTABLE TO 34" IN THE FUTURE.
E11	PROVIDE END PANEL TO ALLOW FOR REMOVABLE SINK BASE CABINET. EXTEND FLOORING INTO FUTURE KNEE SPACE. FINISH WALLS AND SIDE PANELS IN FUTURE KNEE SPACE. COUNTERTOP TO BE ADJUSTABLE TO 34" IN THE FUTURE.
E12	SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER AS REQUIRED FOR STORM SHELTER.
E13	CUSTOM BUILD LAMINATE WARDROBE CABINET WITH CLOTHES ROD. TO MATCH MURPHY BED. REFER TO EQUIPMENT PLAN.
E14	22" DEEP SOLID SURFACE WORK SURFACE.
E15	SINK APRON. REFER TO DETAIL 1/A601
E16	FILLER PANEL. TYPICAL
E17	18" GRAB BAR. BOBRICK B6806.99 OR EQUAL.
E18	42" GRAB BAR. BOBRICK B6806.99 OR EQUAL.
E19	36" GRAB BAR. BOBRICK B6806.99 OR EQUAL.
E20	ACCESSIBLE WATER CLOSET. REFER TO PLUMBING DOCUMENTS.
E21	TOILET PAPER DISPENSER - BOBRICK B-6867 OR EQUAL.
E22	MIRROR - 24" X 36" BOBRICK B165 OR EQUAL
E23	SOAP DISPENSER - GLOBAL INDUSTRIAL GOJO FMX-12 (5150-06) OR EQUAL
E24	SURFACE MOUNTED ACCESSIBLE HEIGHT PAPER TOWEL DISPENSER. BOBRICK B262 OR EQUAL.
E25	SOLID SURFACE COUNTERTOP WITH UNDERMOUNT BOWL AND PLASTIC LAMINATE APRON.
E27	PROVIDE BLOCKING FOR FUTURE ACCESSIBLE SHOWER CONTROLS/HEAD ASSEMBLY.
E28	SOLID SURFACE WALL PANELS IN SHOWER (ALL WALLS).
E30	ACCESSIBLE WALL HUNG SINK
E31	INSULATING PIPE COVERINGS
E32	NEW SOLID SURFACE WINDOW SILL. TYPICAL.
E33	BI-FOLD DOORS WITH HASP AND LOCK.
E34	TV. PROVIDE BLOCKING FOR MOUNT. REFER TO EQUIPMENT SCHEDULE.
E35	CABINET FINISH PANEL.
E38	WASHER. REFER TO EQUIPMENT SCHEDULE.
E39	DRYER. REFER TO EQUIPMENT SCHEDULE.
E41	WATER CLOSET. REFER TO PLUMBING DOCUMENTS.
E43	DESK. REFER TO EQUIPMENT SCHEDULE.
E44	BLOCKING FOR FUTURE GRAB BAR.
E45	MAXIMUM COUNTERTOP DEPTH IN TOILET 107A AND 108A TO BE 24"
E46	INSTALL WALL MOUNTED TOWEL/ROBE HOOK. PROVIDE WALL BLOCKING AS REQUIRED. BOBRICK B6827 OR EQUAL
E47	WATER CLOSET (ROUGH IN TO ACCOMMODATE FUTURE ADA COMPLIANT TOILET).
E48	SOLID SURFACE COUNTERTOP WITH UNDERMOUNT BOWL AND PLASTIC LAMINATE APRON. REFER TO 1/A601. (ROUGH IN TO ACCOMMODATE FUTRE ADA COMPLIANT SINK).
E49	NEW ARCHITECTURAL WOOD BASE CABINETS.
E50	MURPHY BED AND CABINET. INSTALL WALL BLOCKING AS REQUIRED. REFER TO EQUIPMENT PLAN.
E51	CUSTOM BUILD LAMINATE NIGHT STAND. TO MATCH MURPHY BED. REFER TO EQUIPMENT PLAN.
E52	21" DEEP PLASTIC LAMINATE CABINET.
E53	NEW 13" DEEP PLASTIC LAMINATE WALL SHELF WITH KNAPE & VOGT ULTIMATE L BRACKETS, 12" DEEP X 8" HIGH (TITANIUM FINISH)(USE 4 BRACKETS). VERIFY SHELF HEIGHT WITH OWNER.

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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

Sheet Info:

INTERIOR ELEVATIONS

Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

A221

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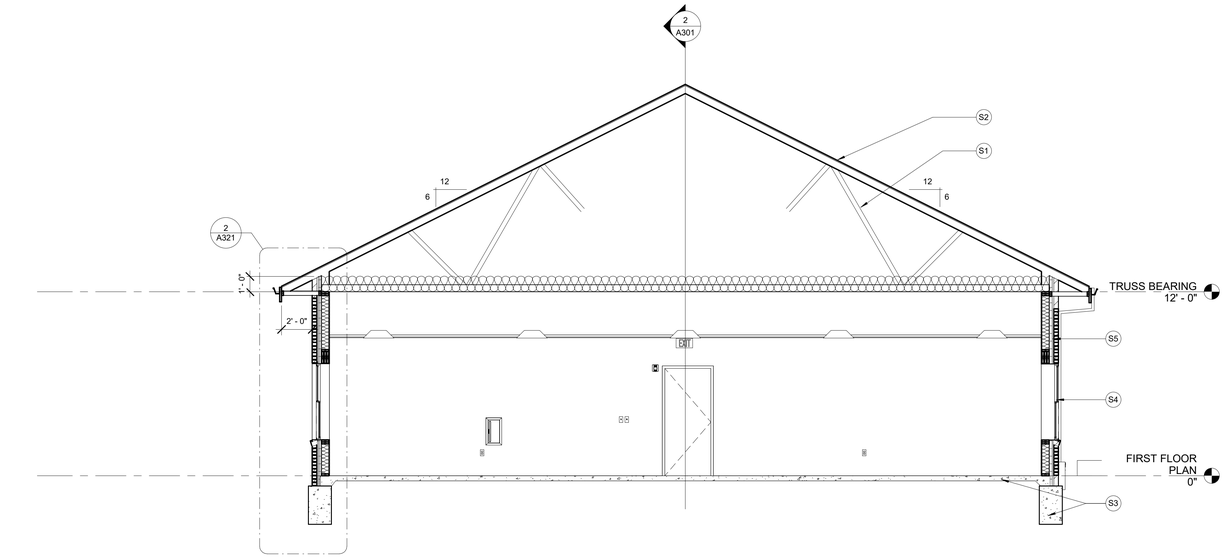
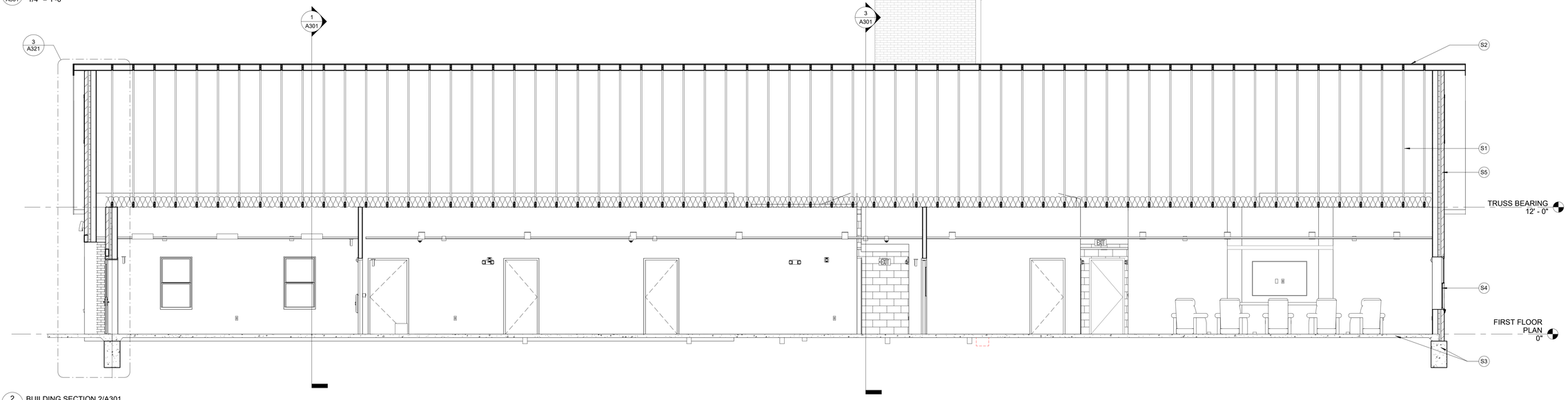


1 A301 BUILDING SECTION 1/A301
1/4" = 1'-0"



2 A301 BUILDING SECTION 2/A301
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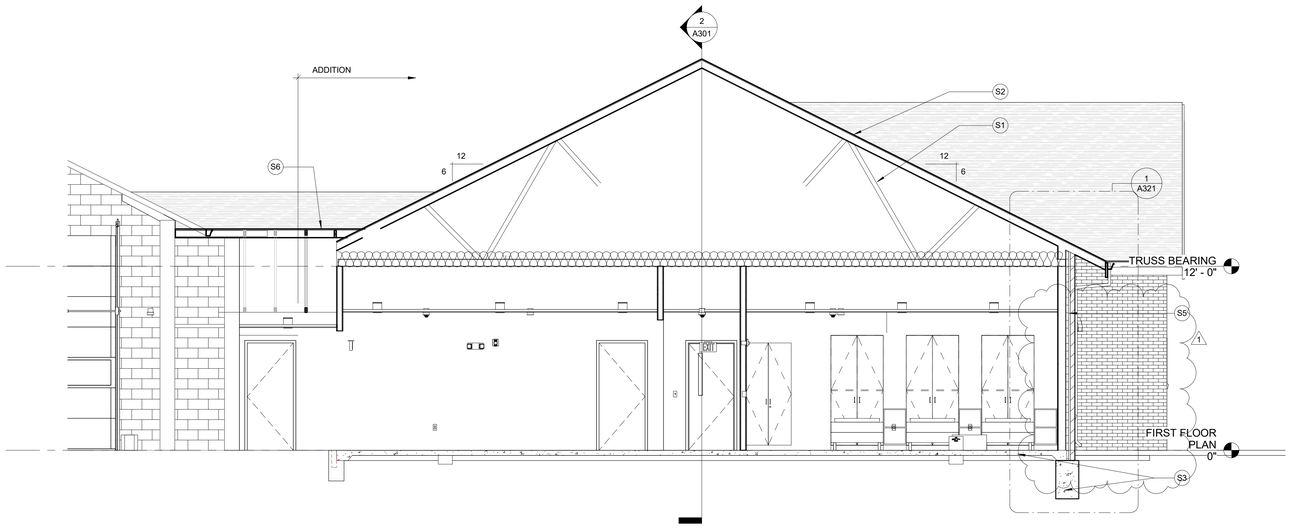

3 A301 BUILDING SECTION 3/A301
1/4" = 1'-0"

BUILDING SECTION GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS, AND REGULATIONS.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION.
3. EXTERIOR WALL DIMENSIONS ARE FROM FACE OF MASONRY.
4. THE PAINTING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL PAINT AND TOUCH UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF ALL EQUIPMENT.
5. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS AND TO PROVIDE FOR THE TIMELY INSTALLATION OF EQUIPMENT, PIPING, ETC.
6. CONTRACTOR TO COORDINATE WITH THE OWNER FOR THE INSTALLATION OF EQUIPMENT SUPPLIED UNDER A SEPARATE CONTRACTS.

BUILDING SECTION KEYED NOTES

S1	PRE-ENGINEERED WOOD TRUSSES. REFER TO STRUCTURAL DOCUMENTS.
S2	ROOFING. REFER TO ROOF PLAN.
S3	CONCRETE FOUNDATION AND FLOOR SLAB. REFER TO STRUCTURAL DOCUMENTS.
S4	NEW WINDOW. REFER TO EXTERIOR ELEVATIONS AND WINDOW TYPES.
S5	BRICK VENEER TO MATCH EXISTING. REFER TO EXTERIOR ELEVATIONS.
S6	REFER TO STRUCTURAL FOR NEW ROOF FRAMING.

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1	2022-07-26	ADD 2 / Permit

Sheet Info:

BUILDING SECTIONS

Drawn By:	CEC
Checked By:	Checker
Commission:	022-2036.3
Date:	2022-07-15

A301

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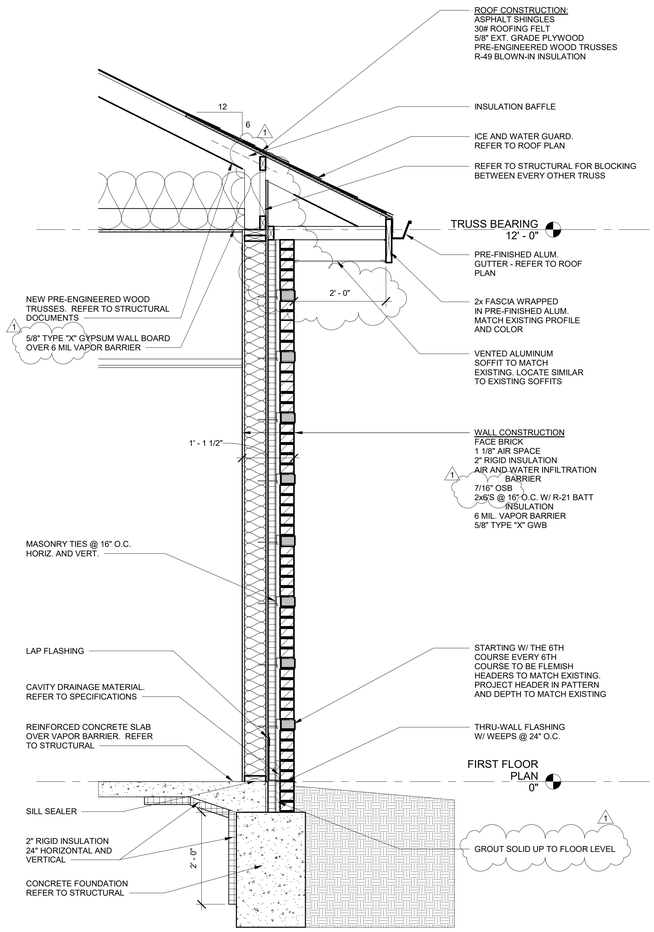

1 A321 WALL SECTION 1/A321
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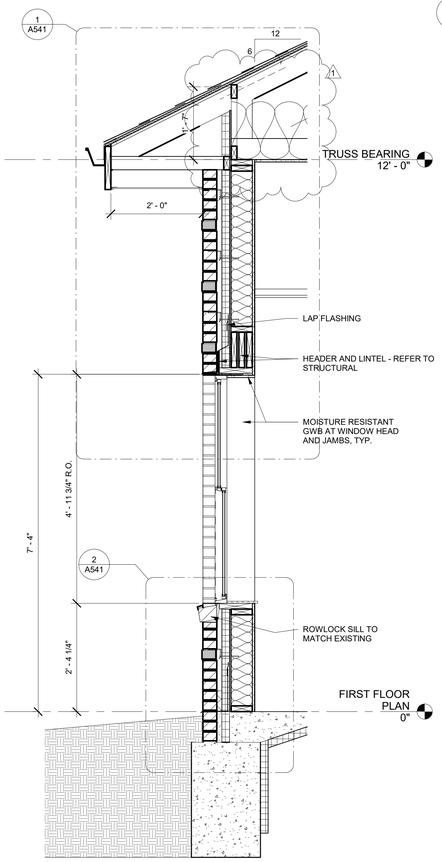
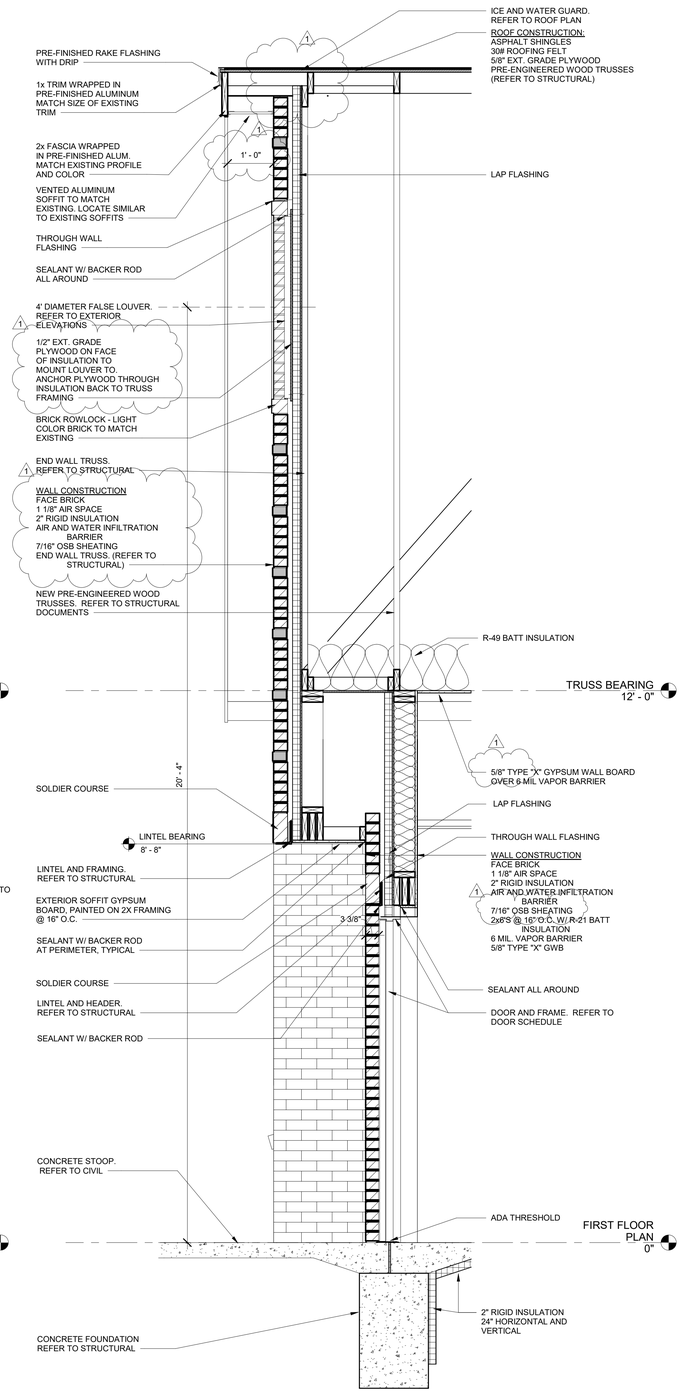


2 A321 WALL SECTION 2/A321
3/4" = 1'-0"

NOTE: REFER TO 1/A321 FOR TYPICAL NOTES.
COORDINATE WINDOW FINAL ROUGH
OPENINGS WITH WINDOW MANUFACTURER



3 A321 WALL SECTION 3/A321
3/4" = 1'-0"

7/26/2022 6:37:17 PM

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Sheet Info:

WALL SECTIONS

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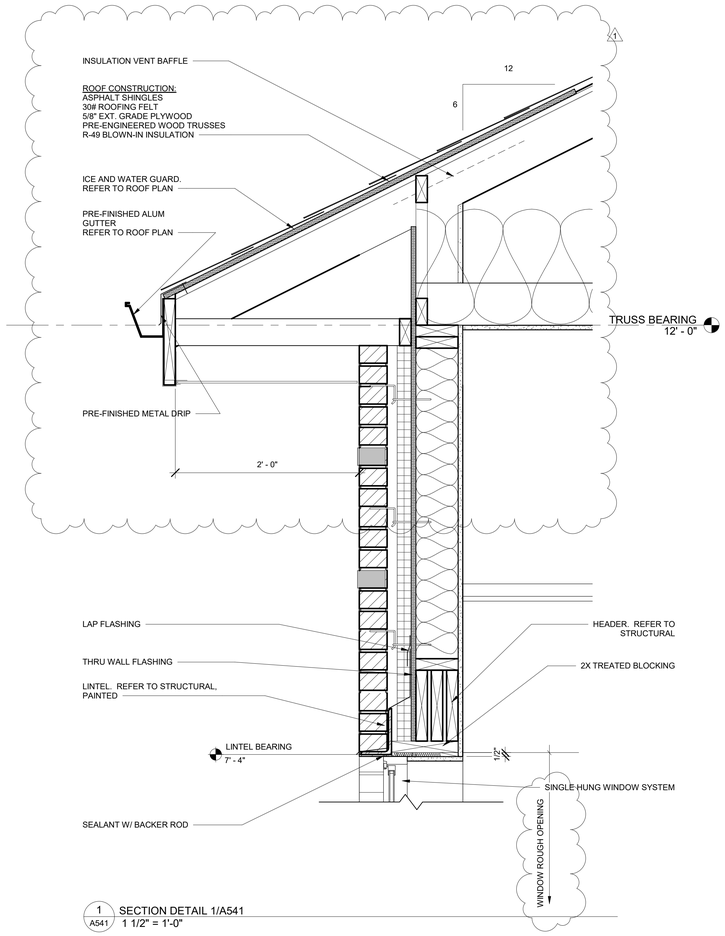
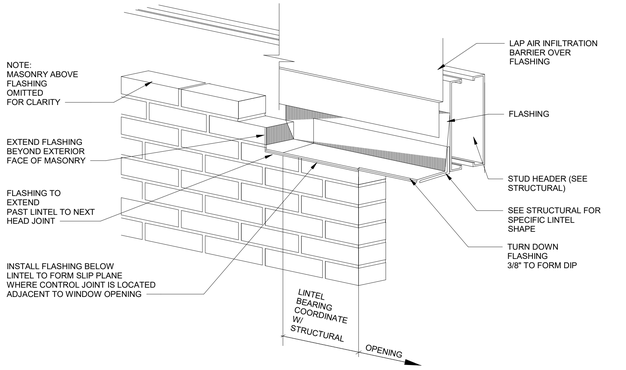
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

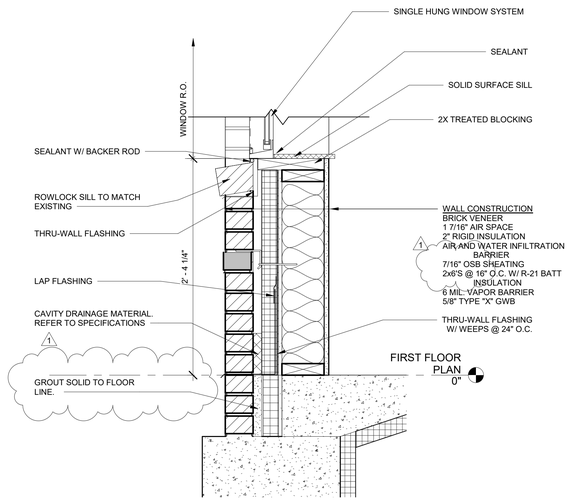
A321



1 A541 SECTION DETAIL 1/A541
1 1/2" = 1'-0"



3 A541 LINTEL FLASHING DETAIL
1 1/2" = 1'-0"



2 A541 SECTION DETAIL - 2/A541
1 1/2" = 1'-0"

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SECTION DETAILS

Drawn By:	CEC
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A541

DOOR SCHEDULE

DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FIRE RATING	DOOR HARDWARE	REMARKS
101A	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	08	
102	D6	ALUM	3' - 0"	7' - 2"	1 3/4"		F3	ALUM			---	01	
102A	D2	WD	6' - 0"	7' - 0"	1 3/4"		F6	HM			---	04	3
102B	D2	WD	6' - 0"	7' - 0"	1 3/4"		F6	HM			---	04	3
102C	D2	WD	6' - 0"	7' - 0"	1 3/4"		F6	HM			---	04	3
103	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	05	5
104	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	05	
105	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	05	5
106	D1	HM	3' - 0"	7' - 0"	1 3/4"		F1	HM			90 MIN	10	6
107	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			20 MIN	02	
107A	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	02	5
108	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			20 MIN	02	
108A	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	02	5
109	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			20 MIN	02	
109A	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	02	5
110	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	08	
111A	D7	FG	3' - 0"	7' - 0"	1 3/8"		F4	HM			---	07	01
111B	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	05	
112	D1	WD	3' - 6"	7' - 0"	1 3/4"		F1	HM			---	08	
113	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			20 MIN	02	
113A	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	02	5
114	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			20 MIN	02	
114A	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	02	5
115	D3	WD	3' - 0"	7' - 0"	1 3/4"	VG	F1	HM			--	05	
117	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	08	
118	D4	WD	5' - 0"	7' - 0"	1 3/4"		F5	HM			---	06	
119	D1	WD	3' - 0"	7' - 0"	1 3/4"		F2	HM			---	03	5
120	D8	HM	3' - 0"	7' - 2"	1 3/4"		F3	HM			---	07	1
120A	D4	WD	5' - 0"	6' - 8"	1 3/4"		--	--				---	2
120B	--	---	3' - 0"	7' - 0"	1 3/4"		---	---				---	7
121	D1	WD	3' - 0"	7' - 0"	1 3/4"		F1	HM			---	08	
122A	D5	STEEL	12'-0"	14'-0"	2""		---	---			---	---	1
122B	D5	STEEL	12'-0"	14'-0"	2""		---	---			---	---	1
122C	D5	STEEL	12'-0"	14'-0"	2""		---	---			---	---	1
122D	D5	STEEL	12'-0"	14'-0"	2""		---	---			---	---	1
122E	D8	HM	3' - 0"	7' - 2"	1 3/4"		F3	HM			---	09	1, 4
122F	--	---	3' - 0"	7' - 0"	1 3/4"		---	---				---	7
122G	D8	HM	3' - 0"	7' - 2"	1 3/4"		F3	HM			---	09	1,4
125	---	---	3' - 0"	7' - 0"	1 3/4"		---	---			---	---	7
126A	---	---	3' - 0"	7' - 0"	1 3/4"		---	---			---	---	7
127	---	---	6' - 0"	7' - 0"	1 3/4"		---	---			---	---	7
128	D8	HM	3' - 0"	7' - 2"	1 3/4"		F3	HM				05	

DOOR SCHEDULE REMARKS

1	INSULATED.
2	REUSE EXISTING FRAME AND HARDWARE. VERIFY EXISTING DOOR SIZE.
3	PROVIDE HASP LOCK.
4	DOOR, FRAME AND HARDWARE TO BE REMOVED AND REPLACED AS A PART OF ALTERNATE BID NO. 2.
5	PROVIDE 1" DOOR UNDERCUT.
6	PROVIDE 3/4" DOOR UNDERCUT.
7	EXISTING DOOR/FRAME/HARDWARE TO REMAIN.

DOOR SCHEDULE ABBREVIATIONS

ALUM	ALUMINUM	HM	HOLLOW METAL	VG	VISION GLASS
FG	FULL GLASS	PLAM	PLASTIC LAMINATE	WOOD	WOOD
FG	FIBERGLASS				

DOOR SCHEDULE NOTES

1. REFER TO FLOOR PLAN FOR DOOR SWING DIRECTIONS.
2. EXIT DOORS: DURING BUSINESS HOURS EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT USE OF A KEY. HARDWARE FOR HANDICAPPED SHALL CONFORM TO LOCAL BUILDING CODES AND ANSI 4.13.10 AS RULES APPLY.
3. DOOR SIGNAGE (ALL INTERIOR DOORS) SHALL BE "ASI TACTILE PLAQUE SIGNS" OR EQUIVALENT. SIGNAGE SHALL BE 8"x8" WITH THE ROOM NAME AND NUMBER SHOWN. REFER TO THE ROOM FINISH SCHEDULE FOR ROOM NAMES AND NUMBERS. ROOM NUMBERS ARE TO BE COORDINATED WITH THE OWNER. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING HEIGHT SHALL BE 60" AFF TO THE CENTERLINE OF THE SIGN.
4. ALL LOCKS ARE TO BE KEYED TO THE OWNER'S REQUIREMENTS.
5. KICK PLATES SHALL BE STAINLESS STEEL 16 GAUGE WITH US26D FINISH. 10" HIGH AND 2" LESS THAN THE DOOR WIDTH.
6. ALL HOLLOW METAL DOORS AND FRAMES TO BE PRIMED AND PAINTED.
7. HOLLOW METAL DOOR FRAMES TO BE 16 GA. MINIMUM THICKNESS, FULL PROFILE WELDED, PRIMED FOR PAINTING.

HARDWARE GROUP NO. 01

QTY	DESCRIPTION
1 SET	OFFSET PIVOTS W/ INTERMEDIATE PIVOTS
1 EA.	TRILOGY LOCK
1 EA.	HEAVY DUTY CLOSER
1 EA.	THRESHOLD
1 EA.	SWEEP
	WEATHERSTRIPPING

HARDWARE GROUP NO. 02

QTY	DESCRIPTION
3 EA.	HINGE
1 EA.	PRIVACY LOCK (ADA LEVER)
1 EA.	CLOSER - MOUNT CLOSER ON PULL SIDE OF DOOR (DOORS 107, 108, 109, 113, AND 114 ONLY
1 EA.	WALL STOP (CONCAVE)
3 EA.	SILENCERS
	GASKETING ON DOORS 107, 108, 109, 113, AND 114
DOORS 107, 108, 109, 113, AND 114 ARE 20 MIN. RATED DOORS	

HARDWARE GROUP NO. 03

QTY	DESCRIPTION
3 EA.	HINGE
1 EA.	OFFICE LOCK (ADA LEVER)
1 EA.	CLOSER W/ HOLD OPEN ARM (MOUNT ON PULL SIDE OF DOOR)
1 EA.	WALL STOP (CONCAVE)
3 EA.	SILENCERS

HARDWARE GROUP NO. 04

QTY	DESCRIPTION
1 EA.	BI-FOLD TRACK AND HARDWARE SET (4 PANEL - 72" OPENING)
2 EA.	WIRE PULL

HARDWARE GROUP NO. 05

QTY	DESCRIPTION
3 EA.	HINGE
1 EA.	PASSAGE LOCK (ADA LEVER)
1 EA.	WALL STOP (CONCAVE)
1 EA.	CLOSER (103, 110, 111B, 112, 115, AND 128 ONLY). PROVIDE STOP ARM ON 111B.
3 EA.	SILENCERS

HARDWARE GROUP NO. 06

QTY	DESCRIPTION
1 EA.	SLIDING BYPASS DOOR TRACK AND HARDWARE [(2) 2'-6" DOORS]
2 EA.	ADA COMPLIANT FINGER PULLS

HARDWARE GROUP NO. 07

QTY	DESCRIPTION
3 EA.	HINGE (NRP)
1 EA.	PANIC DEVICE (ENTRANCE FUNCTION WITH LEVER)
1 EA.	HEAVY DUTY CLOSER
1 EA.	KICK PLATE
1 EA.	THRESHOLD
1 EA.	SWEEP
	WEATHERSTRIPPING

HARDWARE GROUP NO. 08

QTY	DESCRIPTION
3 EA.	HINGE
1 EA.	CLASSROOM LOCK (ADA LEVER)
1 EA.	CLOSER (MOUNT ON PULL SIDE) (DOORS 117 AND 121 ONLY)
1 EA.	WALL STOP (CONCAVE)
1 EA.	KICK PLATE
3 EA.	SILENCERS

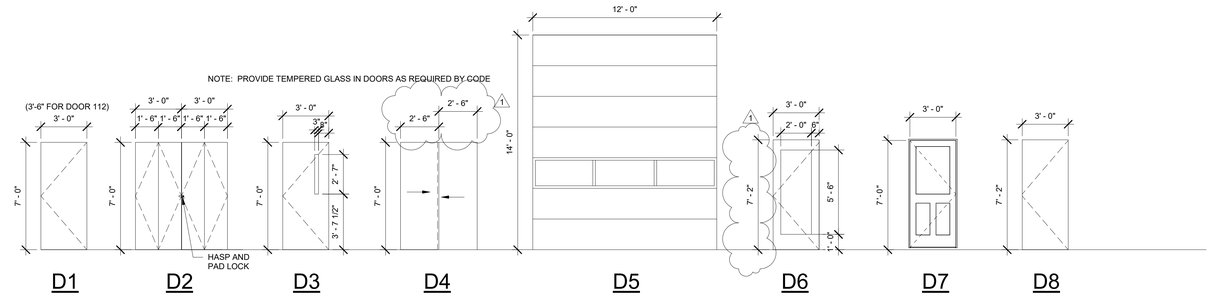
HARDWARE GROUP NO. 09

QTY	DESCRIPTION
3 EA.	HINGE (NRP)
1 EA.	TRILOGY LOCK SALVAGED FROM ORIGINAL DOOR
1 EA.	HEAVY DUTY CLOSER
1 EA.	THRESHOLD
1 EA.	SWEEP
	WEATHERSTRIPPING
1 EA.	KICKPLATE

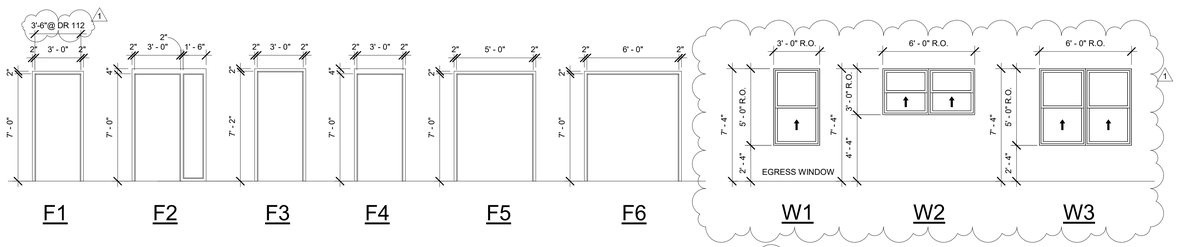
HARDWARE GROUP NO. 10

QTY	DESCRIPTION
3 EA.	HINGE - IVES 5BB1 4.5X4.5 HW
1 EA.	THREE POINT PRIVACY LOCK (ADA LEVER) - SECURITECH 5000-IHD (53 SERIES, F02M2 PRIVACK LOCK, IHD, HVL, 90 MIN. RATING) - LEVER DESIGN TO BE SELECTED, FINISH TO BE 630.
1 EA.	CLOSER - LCN 4040XP - MOUNT CLOSER ON PULL SIDE OF DOOR (CLOSER TO BE ATTACHED WITH THRUBOLTS)
1 EA.	WALL STOP (CONCAVE)
	GASKETING - NGP 160 S OR EQUAL
SHELTER DOOR/FRAME/HARDWARE ASSEMBLY TO BE ICC 500 COMPLIANT. PROVIDE DOOR AND FRAME PER THE HARDWARE MANUFACTURER'S REQUIREMENTS.	

DOOR HARDWARE GROUPS
1/4" = 1'-0"



DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
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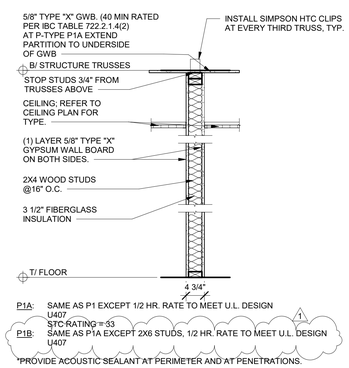
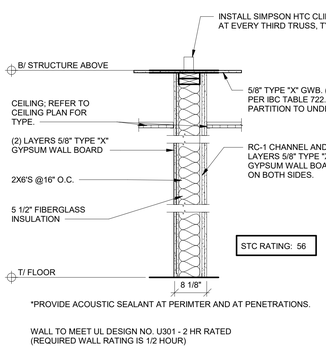
WINDOW LEGEND
1/4" = 1'-0"



P1 A601 PARTITION TYPE "P1"
3/4" = 1'-0"



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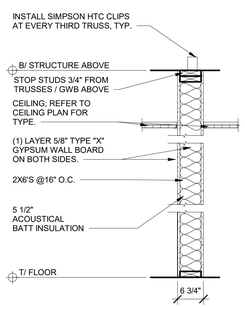

P3 A601 PARTITION TYPE "P3"
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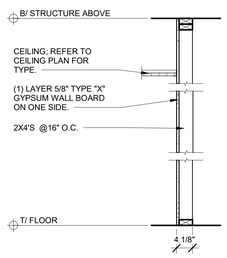
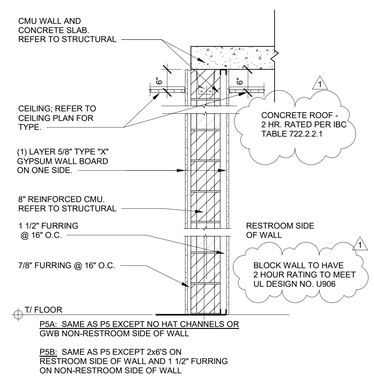
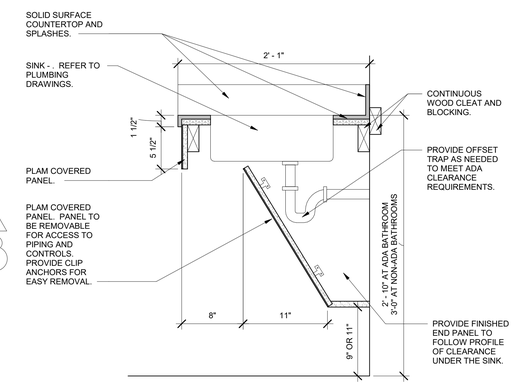


P4 A601 PARTITION TYPE "P4"
3/4" = 1'-0"



P5 A601 PARTITION TYPE "P5"
3/4" = 1'-0"



1 A601 SINK APRON CASEWORK SECTION
1 1/2" = 1'-0"

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CFPD Station 3 Addition / Remodel
Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

Revisions:

No:	Date:	Description:
1	2022-07-26	ADD 2 / Permit

Sheet Info:

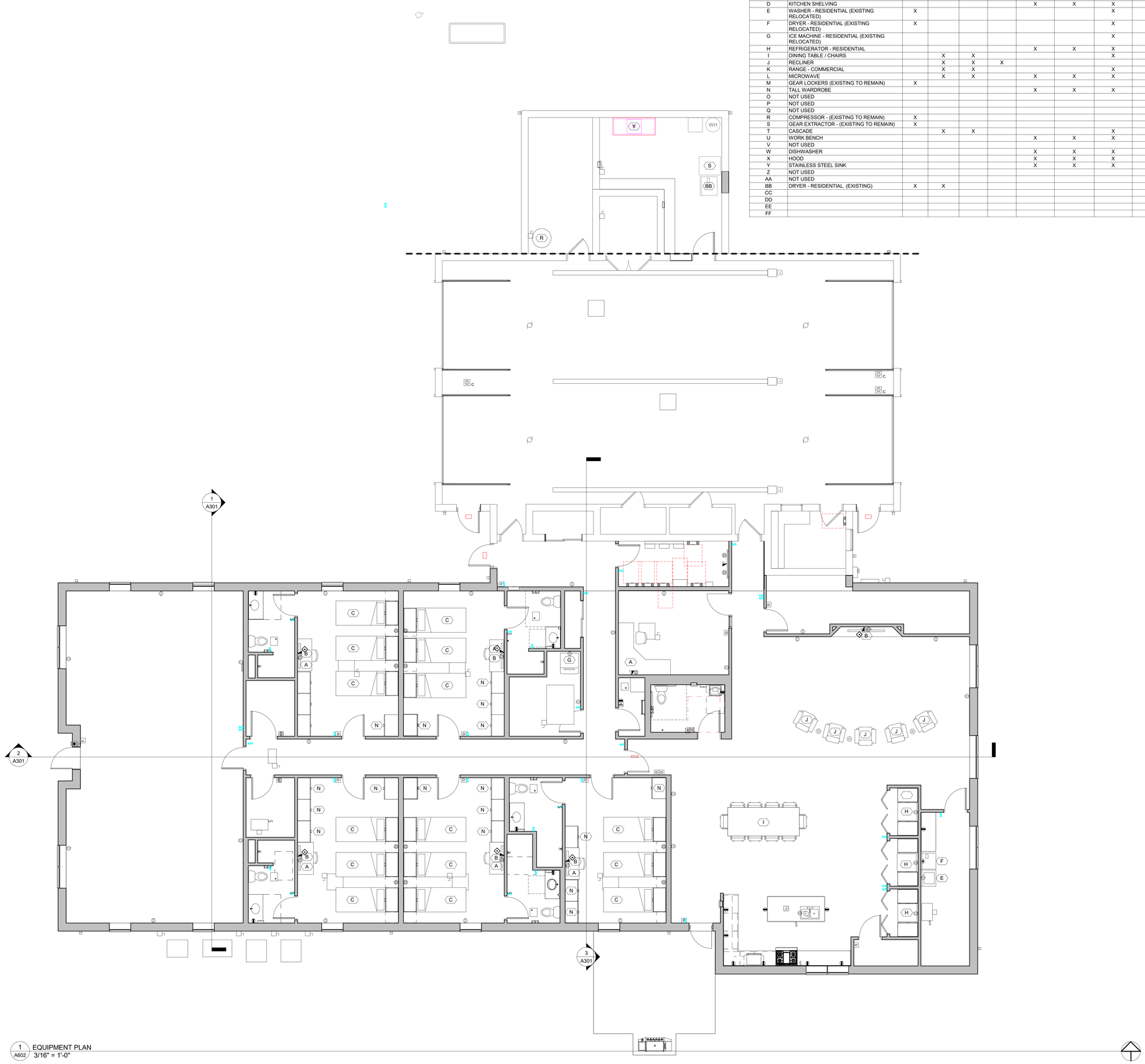
SCHEDULES

Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

A601

EQUIPMENT/FURNITURE SCHEDULE

ITEM	ITEM DESCRIPTION	EXISTING	OWNER SPEC	OWNER FURNISH	OWNER INSTALL	ARCH/MEP SPEC	CONTRACTOR FURNISH	CONTRACTOR INSTALL	UTILITIES ELECTRIC	UTILITIES DATA	UTILITIES WATER/DRAIN	UTILITIES VENT	UTILITIES GAS	COMMENTS
A	FURNITURE		X	X	X									
B	TV		X	X				X	X	?				CONTRACTOR TO PROVIDE BLOCKING.
C	MURPHY BED					X	X	X						CONTRACTOR TO PROVIDE BLOCKING.
D	KITCHEN SHELVING					X	X	X						CONTRACTOR TO PROVIDE BLOCKING.
E	WASHER - RESIDENTIAL (EXISTING RELOCATED)	X						X	X		X			
F	DRYER - RESIDENTIAL (EXISTING RELOCATED)	X						X	X			X	X	
G	ICE MACHINE - RESIDENTIAL (EXISTING RELOCATED)							X	X		X			
H	REFRIGERATOR - RESIDENTIAL					X	X	X	X		X			
I	DINING TABLE / CHAIRS		X	X				X						
J	RECLINER		X	X	X									
K	RANGE - COMMERCIAL		X	X				X	X				X	
L	MICROWAVE		X	X		X	X	X	X					
M	GEAR LOCKERS (EXISTING TO REMAIN)	X												EXISTING TO REMAIN IN CURRENT LOCATION.
N	TALL WARDROBE					X	X	X						CONTRACTOR TO PROVIDE BLOCKING.
O	NOT USED													
P	NOT USED													
Q	NOT USED													
R	COMPRESSOR - (EXISTING TO REMAIN)	X							X					EXISTING TO REMAIN IN CURRENT LOCATION.
S	GEAR EXTRACTOR - (EXISTING TO REMAIN)	X												EXISTING TO REMAIN IN CURRENT LOCATION.
T	CASCADE		X	X				X	X					
U	WORK BENCH					X	X	X						EXISTING TO REMAIN IN CURRENT LOCATION.
V	NOT USED													
W	DISHWASHER					X	X	X	X		X			
X	HOOD					X	X	X	X			X		
Y	STAINLESS STEEL SINK					X	X	X			X			
Z	NOT USED													
AA	NOT USED													
BB	DRYER - RESIDENTIAL (EXISTING)	X	X						X			X	X	
CC														
DD														
EE														
FF														



1 A602 EQUIPMENT PLAN
3/16" = 1'-0"

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Cottleville Fire Protection District
6310 Weldon Spring Road
Weldon Spring, Missouri 63304

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No:	Date:	Description:

Sheet Info:

EQUIPMENT PLAN AND SCHEDULE

Drawn By:	CEC
Checked By:	DGC
Commission:	022-2036.3
Date:	2022-07-15

A602

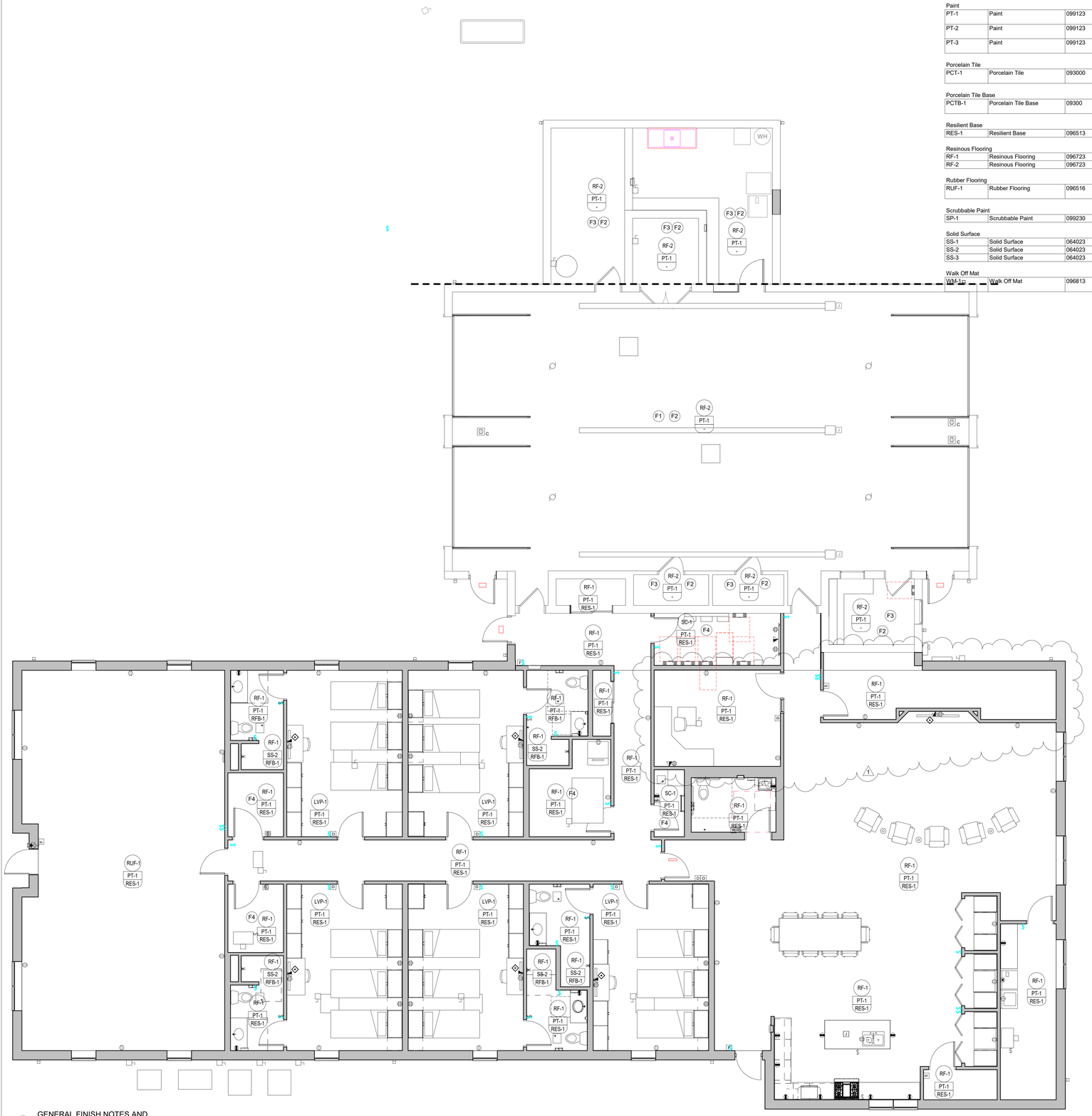
FINISH LEGEND

Symbol		Specification Section	Manufacturer	Series/Pattern	Color	Remarks
Acoustical Panel Ceiling						
APC-1	Acoustical Panel Ceiling	095113	USG	Frost - 440	White	24" x 24" x 3/4", SLB, 15/16" USG DX Grid or Approved Equal
APC-2	Acoustical Panel Ceiling	095113	USG	Frost - 450	White	24" x 48" x 3/4" SLB, 15/16" USG DX Grid or Approved Equal
Carpet						
CPT-1	Carpet	096813	Shaw Contract or Approved Equal	As Selected From Material Matters Collection	As Selected from Manuf. Standard	
High Pressure Laminate						
HPL-1	High Pressure Laminate	064023	Wilsonart or Approved Equal	As Selected from Manuf. Standard	As Selected from Manuf. Standard	Typical Base and Wall Casework
HPL-2	High Pressure Laminate	064023	Wilsonart or Approved Equal	As Selected from Manuf. Standard	As Selected from Manuf. Standard	
Luxury Vinyl Plank						
LVP-1	Luxury Vinyl Plank	096519	Shaw Contract	Terain II 20 Mil.	As Selected from Manuf. Standard	Bunk Rooms
Paint						
PT-1	Paint	099123	Sherwin Williams or Approved Equal	As Selected from Manuf. Standard		Typical Field Paint
PT-2	Paint	099123	Sherwin Williams or Approved Equal	As Selected from Manuf. Standard		Accent Paint
PT-3	Paint	099123	Sherwin Williams or Approved Equal	As Selected from Manuf. Standard		
Porcelain Tile						
PCT-1	Porcelain Tile	093000	American Olean or Approved Equal	Theoretical	As Selected from Manuf. Standard	12 X 24 - Toilet Floor Admin Building
Porcelain Tile Base						
PCTB-1	Porcelain Tile Base	09300	American Olean or Approved Equal	Theoretical	As Selected from Manuf. Standard	4" tile base cut from larger tile- Restroom Admin Building
Resilient Base						
RES-1	Resilient Base	096513	Roppe or Approved Equal	4" Standard Toe	As Selected from Manuf. Standard	Typical, 4" Base.
Resinous Flooring						
RF-1	Resinous Flooring	096723	Tnemec or Approved Equal	Deco Fleck	As Selected from Manuf. Standard	4" cove base in restrooms and showers.
RF-2	Resinous Flooring	096723	Tnemec or Approved Equal	Deco Tread	As Selected from Manuf. Standard	Apparatus Bay
Rubber Flooring						
RUF-1	Rubber Flooring	096516	Dinoflex or Approved Equal	Sport Mat Flooring	As Selected from Manuf. Standard from Stone Line	Interlocking Loose Lay Flooring
Scrubbable Paint						
SP-1	Scrubbable Paint	099230	ScruffMaster or Approved Equal		Match PT-1	
Solid Surface						
SS-1	Solid Surface	064023	Corian			
SS-2	Solid Surface	064023	Corian			
SS-3	Solid Surface	064023	Corian			
Walk Off Mat						
WM-1	Walk Off Mat	096813	Shaw Contract or Approved Equal	Portal Tile 5T035	As Selected from Manuf. Standard	24" x 24" Ashlar Intall - Vestibule

NOTE: INCLUDE MOISTURE MITIGATION IN BASE COST OF ALL NEW FLOORING

FINISH PLAN KEYED NOTES

F1	CLEAN EXISTING EXPOSED STRUCTURE/CEILING PRIOR TO PAINTING. (ALTERNATE BID NO. 1).
F2	NEW RESINOUS FLOORING (INCLUDING MOISTURE MITIGATION) AND PAINTING OF WALLS, CEILINGS, AND DOORS IN APPARATUS BAY TO BE ALTERNATE BID NO. 1.
F3	PAINTING OF WALLS, CEILINGS, AND DOORS IN ROOMS ADJACENT TO THE APPARATUS BAY TO BE ALTERNATE BID NO. 1.
F4	SEALED CONCRETE



1 A961 GENERAL FINISH NOTES AND MATERIAL SELECTIONS
3/16" = 1'-0"

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Sheet Info:

GENERAL FINISH NOTES AND MATERIAL SELECTIONS

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Date:	2022-07-15

A961

CFPD Station 3 Remodel

Weldon Springs, St. Charles County, Missouri

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2015 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
   FOUNDATIONS – 3,000 PSI
   CAST-IN-PLACE WALLS – 3,500 PSI
   FLOOR SLAB – 4,000 PSI
   EXTERIOR SLABS, WALLS AND CURBS – 4,000 PSI
2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
3. CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION
6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE
7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
10. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
11. CONCRETE WORK EXECUTION
    A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
    B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
       CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
       EXPOSED TO EARTH OR WEATHER.....2 INCHES
       NOT EXPOSED TO WEATHER OR
       IN CONTACT WITH EARTH.....1 ½ INCHES
    C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM ¼ OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
    D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
    E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

TIMBER

TIMBER WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ANSI/AF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

1. FOR COMMON MEMBER SIZES, THE SPECIES AND GRADES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   A. 2X4 SPF No.1/No.2
   B. 2X6 SPF No.1/No.2
   C. 2X8 DF-L No.2
   D. 2X10 DF-L S.S.
   E. 2X12 DF-L S.S.

   EQUIVALENT (OR BETTER) GRADES & SPECIES MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.
2. SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.
3. TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.
4. SPLICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.
5. BOLTS SHALL CONFORM TO ASTM A307. HOLES SHALL BE DRILLED PER SECTION 11.1.2 OF THE 2005 ANSI/AF&PA NDS FOR WOOD CONSTRUCTION.
6. LAG SCREWS AND WOOD SCREWS SHALL BE INSTALLED PER SECTIONS 11.1.3 AND 11.1.4, RESPECTIVELY, OF THE 2005 ANSI/AF&PA NDS FOR WOOD CONSTRUCTION.
7. COMMON NAILS SHALL BE USED, UNLESS NOTED OTHERWISE. IN ADDITION, NAILS SHALL BE GALVANIZED, IF EXPOSED TO WEATHER OR MOISTURE. TOE-NAILS SHALL BE DRIVEN PER SECTION 11.1.5.4 OF THE 2005 ANSI/AF&PA NDS FOR WOOD CONSTRUCTION.
8. FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.9.1, UNLESS NOTED OTHERWISE.
9. CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

PREFABRICATED WOOD TRUSSES

1. FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/NF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
2. PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.
3. FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
   A. DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
   B. MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.
   C. OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
   D. DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
   E. IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
4. GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
5. SUBMITTALS SHALL INCLUDE THE FOLLOWING:
   A. SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESSES, STRESS DIAGRAMS, AND CALCULATIONS, AND ANY OTHER INFORMATION NEEDED FOR REVIEW. THE CALCULATIONS SHALL HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

a. CONCRETE GROUT DESIGN MIX (PERIODIC)
b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
c. BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
d. STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
e. STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
f. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
g. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
h. MASONRY AND REINFORCING STEEL (CONTINUOUS ON CELL GROUTING / PERIODIC ON REINFORCING)
i. WOOD FRAMING:
   i.a. SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
   i.b. DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
   i.c. FRAMING MEMBERS AND DETAILS (PERIODIC)
   i.d. MATERIAL GRADE (PERIODIC)
   i.e. CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
   i.f. PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DESIGN DATA

2015 INTERNATIONAL BUILDING CODE / ASCE 7-10

BUILDING OCCUPANCY CATEGORY	II
ROOF LOAD DATA	
LIVE LOAD	20
ASPHALT SHINGLES + FELT	3.0
5/8" OSB ROOF SHEATHING	3.0
PRE-ENGINEERED WOOD TRUSSES @ 2'-0" O.C.	3.0
INSULATION (BLOWN)	3.0
MECHANICAL ALLOWANCE	5.0
5/8" GYP. CEILING	3.0
TOTAL TO TRUSSES	40 lbs/sq.ft
ROOF SNOW LOAD DATA* (*UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)	
p_g =	20 lbs/sq.ft
C_e =	0.9
I_s =	1.0
C_t =	1.0
p_f =	12.60 lbs/sq.ft
WIND DESIGN DATA	
V_{ult} =	120 M.P.H. (3-SECOND GUST)
RISK CATEGORY	IV
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT -	± 0.18
DIRECTIONAL PROCEDURE (MWFRS - ASCE 7-10, CH 27; C&C - ASCE 7-10, CH 30, PART 4)	
MAXIMUM COMPONENTS & CLADDING WIND	+/-40.65 lbs/sq.ft
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	IV
I_e =	1.5
S_S =	0.336
S_1 =	0.142
SITE CLASS	D (UNKNOWN)
S_{DS} =	0.343
S_{D1} =	0.212
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC-FORCE-RESISTING SYSTEM - LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
R =	6.5
Ω_0 =	3.0
C_d =	4.0
DESIGN BASE SHEAR	$V = 0.079W$
EQUIVALENT LATERAL FORCE PROCEDURE	
NET ALLOWABLE SOIL BEARING	1,500 lbs/sq.ft**

(**ASSUMED PER IBC TABLE 1806.2, PRESUMPTIVE LOAD-BEARING VALUES)

INDEX OF SHEETS

COVER / GENERAL STRUCTURAL DATA	S100
STORM SHELTER STRUCTURAL DATA	S101
FOUNDATION PLAN	S200
FOUNDATION DETAILS	S210
ROOF & STORM SHELTER FRAMING PLAN	S300
ROOF & STORM SHELTER FRAMING DETAILS	S310

REVISIONS:

No.	Date
ADD 2 / PERMIT	07/28/2022

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
GREGORY L. LINNEMAN
NUMBER PE-2005001013
12/31/22

GREGORY L. LINNEMAN - PE
MO LICENSE - 2005001013

STRUCTURAL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#2006013101

CLIENT:
LCS CONSTRUCTION
1024 COOL SPRINGS INDUSTRIAL DRIVE
O'FALLON, MISSOURI

CFPD Station 3 Remodel
6310 WELDON SPRINGS ROAD
WELDON SPRINGS, MISSOURI

DRAWING INCLUDES:
GENERAL STRUCTURAL DATA

DESIGNED:	GLL
DRAWN:	RCA
PROJECT NO.:	180190
SHEET:	S100

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF THE WORK THAT IS (1) REQUIRED BY CHAPTER 107.3 OF ICC-500 AND CHAPTER 17 OF THE BUILDING CODE, AND (2) WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-FORCE-RESISTING SYSTEM SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT, PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM, A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STRUCTURAL QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR WILL BE HIRED BY THE OWNER.
CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.
CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

MISSILE COMPLIANCE:

THESE STRUCTURES HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF ICC500. THE ROOF AND WALL ASSEMBLIES ARE APPROVED PER SECTION A OF TEXAS TECH'S APPROVED ASSEMBLIES UTILIZING A 15 LBF 2X4 BOARD MISSILE.

CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

1. PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.

PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

SPECIAL INSPECTOR RESPONSIBILITIES

SPECIAL INSPECTOR SHALL MAINTAIN RECORDS OF INSPECTIONS IN ACCORDANCE WITH CHAPTER 106.2 OF ICC-500 AND CHAPTER 17 OF THE BUILDING CODE AND SHALL DISTRIBUTE THESE RECORDS TO THE BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER ON A WEEKLY BASIS. AT THE CONCLUSION OF THE PROJECT, THE SPECIAL INSPECTOR SHALL SUBMIT A WRITTEN STATEMENT THAT THE SPECIAL INSPECTIONS DURING CONSTRUCTION HAVE COMPLIED WITH THIS STRUCTURAL QUALITY ASSURANCE PLAN AND THAT ANY DISCREPANCIES NOTED DURING CONSTRUCTION HAVE BEEN CORRECTED.

SOILS (QUALITY ASSURANCE)

SITE CONTRACTOR SHALL VERIFY THE FOLLOWING INSPECTIONS WERE PREFORMED:

1. VERIFY STRUCTURAL FILL COMPLIES WITH THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
2. OBSERVE PROOF-ROLLING AND UNDERCUTTING WHERE REQUIRED.
3. OBSERVE AND VERIFY THAT PLACEMENT OF STRUCTURAL FILL COMPLIES WITH THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
4. PERFORM FIELD DENSITY TESTS TO VERIFY COMPACTION OF STRUCTURAL FILL AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2,500 SQUARE FEET OF FILL PLACED.
5. VERIFY FOUNDATION BEARING CAPACITY MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

POST INSTALLED ADHESIVE ANCHORS (QUALITY ASSURANCE)

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. HOLE DEPTH (PERIODICALLY DURING TASK)
2. HOLE DIAMETER (PERIODICALLY DURING TASK)
3. HOLE CLEANLINESS (PERIODICALLY DURING TASK)
4. EPOXY IS THE SPECIFIED PRODUCT OR AN APPROVED EQUAL (PERIODICALLY DURING TASK)
5. EXPIRATION DATE OF THE EPOXY (PERIODICALLY DURING TASK)
6. TEMPERATURE DURING THE INSTALLATION MEETS THE REQUIREMENT OF THE EPOXY (PERIODICALLY DURING TASK)
7. INSTALLATION OF ANCHOR INTO EPOXY (CONTINUOUSLY DURING TASK)

MASONRY (QUALITY ASSURANCE)

FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT. (PERIODICALLY DURING TASK.)
2. VERIFY PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. (PERIODICALLY DURING TASK.)
3. VERIFY PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES. (CONTINUOUSLY DURING TASK.)
4. VERIFY GROUT SPACING PRIOR TO GROUTING. (CONTINUOUSLY DURING TASK.)
5. VERIFY PLACEMENT OF GROUT. (CONTINUOUSLY DURING TASK.)
6. TEST GROUT STRENGTH, EACH TIME GROUT IS PLACED.
7. VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS. (CONTINUOUSLY DURING TASK.)
8. VERIFY TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. (CONTINUOUSLY DURING TASK.)
9. VERIFY SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT. (CONTINUOUSLY DURING TASK.)
10. OBSERVE AND VERIFY THE WELDING OF REINFORCING BARS. (CONTINUOUSLY DURING TASK.)
11. VERIFY PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TERMPERATURE ABOVE 90°F). (CONTINUOUSLY DURING TASK.)
12. OBSERVE PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS. (CONTINUOUSLY DURING TASK.)

CAST-IN-PLACE CONCRETE (QUALITY ASSURANCE)

CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL TEST REPORTS.
2. SUBMIT MANUFACTURER'S DATA FOR TENSILE AND COMPRESSIVE SPLICERS.
3. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:
   a. TYPE AND QUANTITIES OF MATERIALS
   b. SLUMP
   c. AIR CONTENT
   d. FRESH UNIT WEIGHT
   e. AGGREGATES SIEVE ANALYSIS
   f. DESIGN COMPRESSIVE STRENGTH
   g. LOCATION OF PLACEMENT IN STRUCTURE
   h. METHOD OF PLACEMENT
   i. METHOD OF CURING
   j. 7-DAY AND 28-DAY COMPRESSIVE STRENGTHS
4. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
5. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLAN COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY GRADE, QUANTITY, LOCATION, AND PLACEMENT OF REINFORCING STEEL PRIOR TO CONCRETE PLACEMENT.
2. EXAMINE CONCRETE IN TRUCK TO VERIFY THAT CONCRETE APPEARS PROPERLY MIXED.
3. PERFORM A SLUMP TEST AS DEEMED NECESSARY FOR EACH CONCRETE LOAD. RECORD IF WATER OR ADMIXTURES ARE ADDED TO THE CONCRETE AT THE JOB SITE. PERFORM ADDITIONAL SLUMP TESTS AFTER JOB SITE ADJUSTMENTS.
4. MOLD FOUR SPECIMENS PER SET FOR COMPRESSIVE STRENGTH TESTING. ONE SET FOR THE FIRST 25 CUBIC YARDS, AND ONE SET FOR EACH ADDITIONAL 50 CUBIC YARDS. FOR EACH SET MOLDED, RECORD:
   a. SLUMP
   b. AIR CONTENT
   c. UNIT WEIGHT
   d. TEMPERATURE, AMBIENT AND CONCRETE
   e. LOCATION OF PLACEMENT
   f. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION OF ADMIXTURES, ETC.

   PERFORM ONE 7-DAY AND TWO 28-DAY COMPRESSIVE STRENGTH TESTS. USE ONE AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTHS DO NOT APPEAR ADEQUATE.
5. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE DESIGN COMPRESSIVE STRENGTH, LOCATION OF CONCRETE PLACEMENT IN STRUCTURE, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK.
6. VERIFY THE DRY WEIGHT OF THE LIGHTWEIGHT AGGREGATES AND THE FIVE-DAY SATURATED WEIGHT OF THE AGGREGATE, AND VERIFY THAT AGGREGATES ARE BEING PROPERLY PRESOAKED PRIOR TO BATCHING CONCRETE.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
   FOUNDATIONS – 3,000 PSI
   CAST-IN-PLACE WALLS – 4,000 PSI
   ELEVATED FLOOR SLAB – 4,000 PSI w/ MAX. AGGREGATE SIZE OF ⅜"
2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
3. CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION
6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE
7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
10. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
11. CONCRETE WORK EXECUTION
    A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
    B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
       CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
       EXPOSED TO EARTH OR WEATHER.....2 INCHES
       NOT EXPOSED TO WEATHER OR
       IN CONTACT WITH EARTH.....1 ½ INCHES
    C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM ¼ OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
    D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
    E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.
    F. ALL FLOOR SLABS ON GRADE/ELEVATED SLABS SHALL HAVE CONCRETE MOISTURE VAPOR REDUCING ADMIXTURE IN CONCRETE @ THE SUPPLIERS RECOMMENDED DOSAGE.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
2. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
3. BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
4. ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
5. SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
6. ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
7. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

POST-INSTALLED ANCHORS

1. ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318 AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
2. EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
3. ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200-A ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
4. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
5. EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
6. ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
7. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
8. STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

MASONRY

MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. HOLLOW MASONRY BLOCK SHALL CONFORM TO ASTM C90 REGULAR WEIGHT GRADE N1.
2. COURSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI
3. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270.
4. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY; f'm = 3,000 PSI.
5. WIRE REINFORCING SHALL CONFORM TO ASTM A82, STANDARD TRUSS-TYPE DUR-O-WAL REINFORCING (OR APPROVED EQUAL) AND SHALL BE PLACED CONTINUOUSLY IN ALTERNATE HORIZONTAL MORTAR JOINTS.
6. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60. PROVIDE DUR-O-WAL REBAR POSITIONERS. BAR MINIMUM LAP SPLICE LENGTH AS NOTED:
   #5 BARS = 3'-0"
   #6 BARS = 4'-6"
   #7 BARS = 4'-9"
7. ALL STEEL LINTELS TO BE A36 STEEL OR A992 GRADE 50. ALL LINTELS TO BE HOT DIPPED GALVANIZED.
8. INTERSECTING STRUCTURAL WALLS SHALL BE ANCHORED BY STEEL CONNECTORS SPACED VERTICALLY AT 48" O.C. MAXIMUM (U.N.O.). THE CONNECTORS SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM SECTION OF ¾" x 1½". THEY SHALL BE 28" LONG WITH 2" AT EACH END BENT AT 90 DEGREES TO FORM A "U" OR "Z" SHAPE. ALL CELLS ABOVE AND BELOW THE ANCHOR SHALL BE GROUTED, AND THE BENT ENDS OF THE CONNECTORS SHALL BE EMBEDDED IN THE GROUT, 2" MIN.
9. EXPANSION JOINTS SHALL BE PROVIDED IN CMU BLOCK WALLS AT INTERVALS NOT EXCEEDING 24'-0". JOINT REINFORCING SHALL BE SEVERED AT EXPANSION JOINT LOCATIONS, HOWEVER BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT.
10. BOND BEAMS OR GROUTED CELLS ARE REQUIRED AT ALL CONNECTIONS TO CMU.

HEADED MASONRY ANCHORS

1. ALL HEADED CONCRETE ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318 AND AWS D1.1.
2. HEADED STUDS HAVE BEEN DESIGNED AS TYPE "B" ANCHORS (f_u= 65,000 psi, f_y= 51,000 psi).
3. EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE OUTSIDE FACE OF THE EMBEDMENT PLATE TO THE INSIDE FACE OF THE STUD HEAD.
4. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

DEFORMED BAR ANCHORS

1. ALL DEFORMED BAR ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318 AND AWS D1.1.
2. DEFORMED BAR ANCHORS HAVE BEEN DESIGNED AS TYPE "C" ANCHORS (f_u= 80,000 psi, f_y= 70,000 psi, & MANUFACTURED IN CONFORMANCE WITH ASTM A496).
3. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

STORM SHELTER DESIGN DATA (REFER TO S100 FOR NON-STORM SHELTER DESIGN DATA

IBC 2015 / ASCE 7-10 / ICC500-14

BUILDING OCCUPANCY CATEGORY	IV
ROOF LOAD	
LIVE LOAD (INCLUDING IMPACT FROM STRUCTURE ABOVE & MECH EQUIP)	250
6" CONCRETE TOPPING SLAB	75
CEILINGS/FLOORING	5
MECHANICAL ALLOWANCE	5
TOTAL TO STRUCTURE	335 lbs/sq.ft
BASIC DESIGN WIND LOAD	
V_u =	250 M.P.H. (3-SECOND GUST)
I_w =	1.0
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT =	± 0.55
Kd=	1.0
Kzt=	1.0
MAXIMUM COMPONENTS & CLADDING WIND	+/-255 lbs/sq.ft
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	IV
I_E =	1.5
S_{DS}=	0.337
S_{D1}=	0.143
SITE CLASS	D (UNKNOWN)
S_{DS}=	0.344
S_{D1}=	0.212
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM = SPECIAL REINFORCED MASONRY SHEAR WALLS	
R =	5.0
Ω_0 =	2.5
C_d =	3.5
DESIGN BASE SHEAR	V= 0.069W
EQUIVALENT LATERAL FORCE PROCEDURE	
NET ALLOWABLE SOIL BEARING	1,500 lbs/sq.ft**

(**ASSUMED PER IBC TABLE 1806.2, PRESUMPTIVE LOAD-BEARING VALUES)

REVISIONS:

No.	Date
ADD 2/PERMIT	07/26/2022

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
GREGORY L. LINNEMAN
NUMBER PE-2005001013
NOTARY PUBLIC

GREGORY L. LINNEMAN - PE
MO LICENSE - 2005001013

STRUCTURAL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #2006013101

CLIENT:
LCS CONSTRUCTION
1024 COOL SPRINGS INDUSTRIAL DRIVE
O'FALLON, MISSOURI

CFPD Station 3 Remodel

6310 WELDON SPRINGS ROAD
WELDON SPRINGS, MISSOURI

DRAWING INCLUDES:

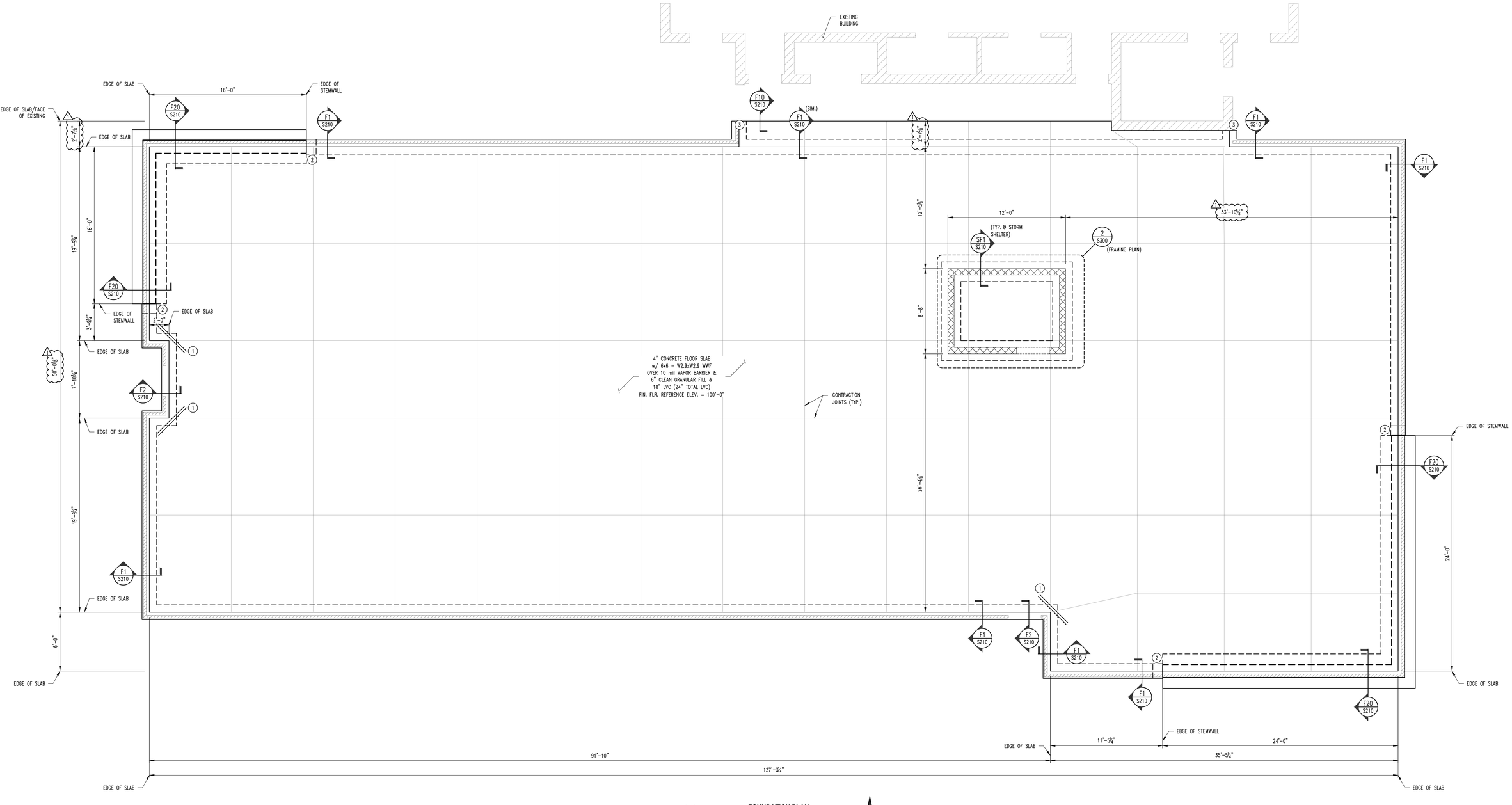
STORM SHELTER
STRUCTURAL DATA

DESIGNED:	GLL
DRAWN:	RCA
PROJECT NO.:	180190
SHEET:	S101

NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING; EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FOUNDATION NOTES

1. REENTRANT CORNER BARS. REFER TO TYPICAL CRACK CONTROL REINFORCING DETAIL S210.
2. FOOTING STEP LOCATION. REFER TO TYPICAL DETAIL FS1 ON SHEET S210.
3. DOWEL CONT. FOOTING REINFORCING INTO EXISTING w/ 4" EPOXY EMBEDMENT.



1 S200 **FOUNDATION PLAN**
SCALE: ¼" = 1'-0"

PLAN NORTH

REVISIONS:

No.	Date
ADD 2/PERMIT	07/26/2022

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STRUCTURAL ENGINEER:
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1024 COOL SPRINGS INDUSTRIAL DRIVE
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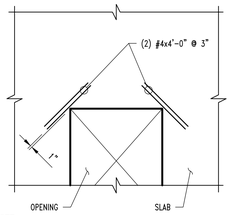
CFPD Station 3 Remodel

6310 WELDON SPRINGS ROAD
WELDON SPRINGS, MISSOURI

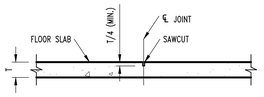
DRAWING INCLUDES:
FOUNDATION PLAN

DESIGNED:	GLL
DRAWN:	RCA
PROJECT NO.:	180190
SHEET:	S200

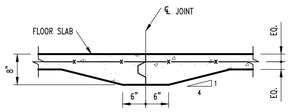


NOTE:
TYPICAL AT ALL REENTRANT CORNERS FOR SLAB-ON-GRADE & STRUCTURAL SLAB. REINFORCING TO BE CENTERED IN SLAB THICKNESS.

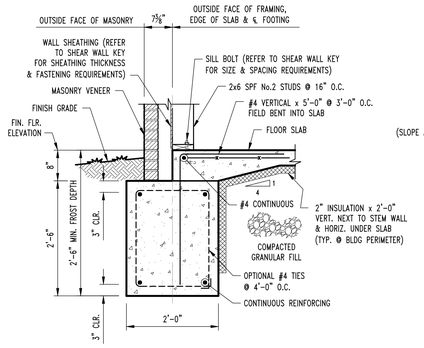
CRACK CONTROL REINFORCING



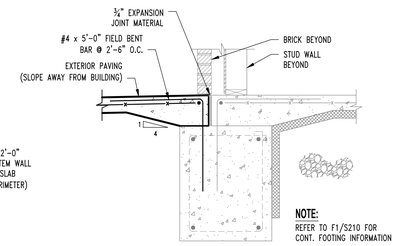
CONTRACTION JOINT



CONSTRUCTION JOINT

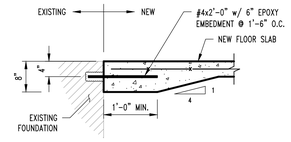


F1 / S200 **CONT. FOOTING SECTION**
SCALE: ¾" = 1'-0"

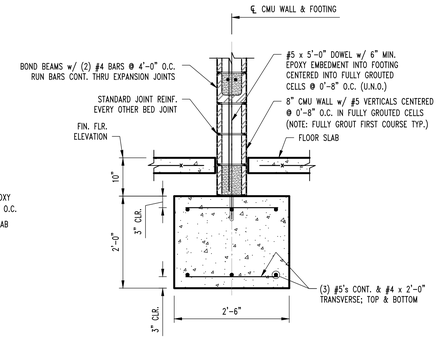


NOTE:
REFER TO F1/S210 FOR CONT. FOOTING INFORMATION

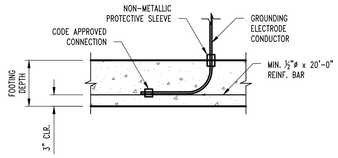
F2 / S200 **CONT. FOOTING SECTION**
SCALE: ¾" = 1'-0"



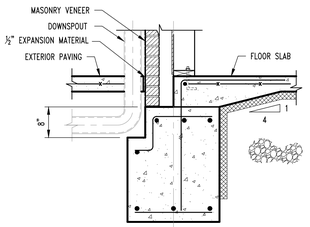
F10 / S200 **NEW SLAB TO EXISTING @ DOOR DETAIL**
SCALE: ¾" = 1'-0"



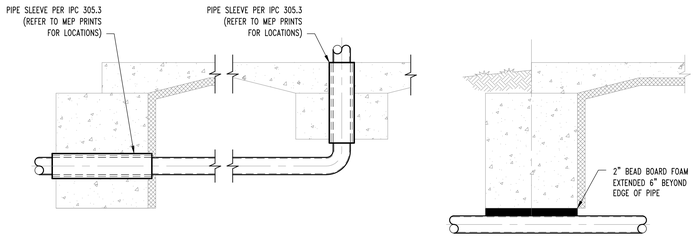
SF1 / S200 **CONTINUOUS FOOTING SECTION @ HARDENED ROOM**
SCALE: ¾" = 1'-0"



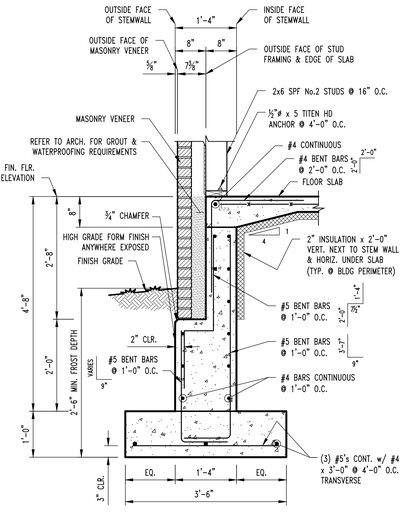
TYP. ELECTRICAL GROUNDING DETAIL @ FOOTING



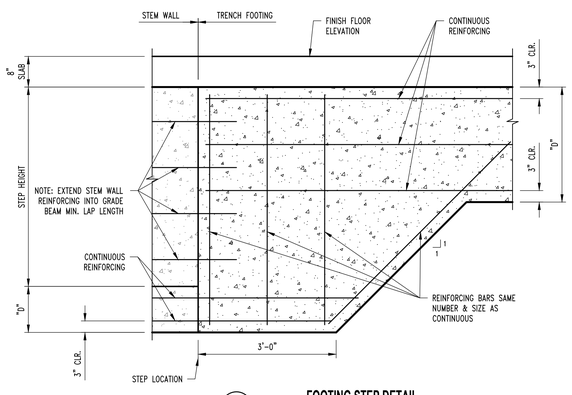
TYP. FOOTING SECTION @ DOWNSPOUT



TYP. PLUMBING COORDINATION DETAILS



F20 / S200 **STEM WALL SECTION**
SCALE: ¾" = 1'-0"



FS1 / S200 **FOOTING STEP DETAIL**
SCALE: ¾" = 1'-0"

REVISIONS:

No.	Date
ADD 2/PERMIT	07/26/2022

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STATE OF MISSOURI
GREGORY L. LINNEMAN
NUMBER
PE-2005001013

GREGORY L. LINNEMAN - PE
MO LICENSE - 2005001013

STRUCTURAL ENGINEER:
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Missouri Certificate of Authority
#2006031501

CLIENT:
LCS CONSTRUCTION
1024 COOL SPRINGS INDUSTRIAL DRIVE
O'FALLON, MISSOURI

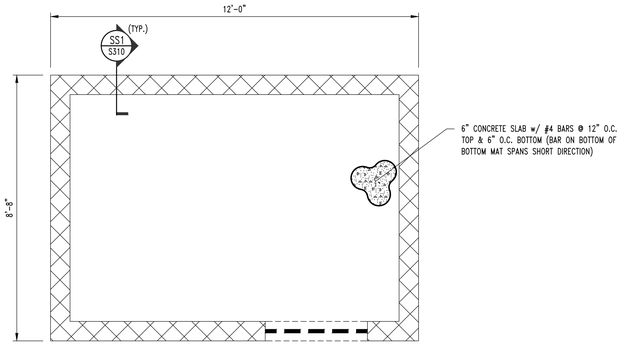
CFPD Station 3 Remodel

6310 WELDON SPRINGS ROAD
WELDON SPRINGS, MISSOURI

DRAWING INCLUDES:
FOUNDATION DETAILS

DESIGNED:	GLL
DRAWN:	RCA
PROJECT NO.:	180190
SHEET:	S210

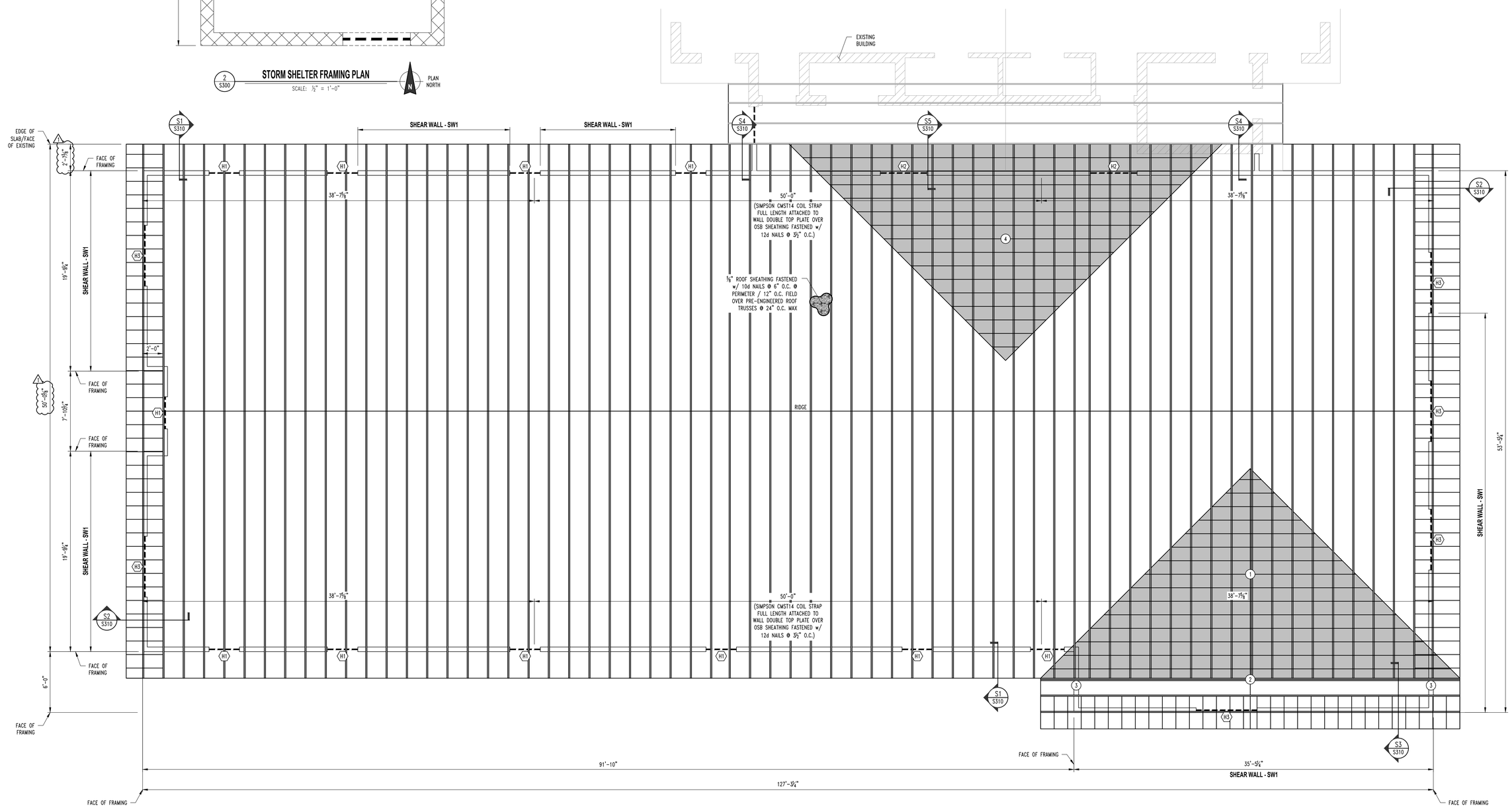
NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING; EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.



2 S300 **STORM SHELTER FRAMING PLAN**
SCALE: ½" = 1'-0"
PLAN NORTH

ROOF FRAMING NOTES

1. FRAME ROOF OVER PRE-ENGINEERED TRUSSES TO CREATE RIDGE, VALLEY, OR HIP w/ TRUSSES @ 24" O.C. MAX. AS SHOWN.
2. GIRDER TRUSS
3. PROVIDE (3) 2x6 SPF No.1/No.2 COLUMN BELOW GIRDER TRUSS w/ SIMPSON LTT131 HOLD DOWN FASTENED TO COLUMN w/ (18) 10dx1½" NAILS, FASTENED TO FOOTING w/ ⅝"ø A307 THREADED ROD w/ 6" SIMPSON AT-XP EPOXY EMBEDMENT (16" TOTAL EMBEDMENT).
4. FRAME ROOF OVER PRE-ENGINEERED TRUSSES TO CREATE RIDGE, VALLEY, OR HIP AS SHOWN w/ 2x #2 SPF RAFTERS @ 16" O.C. MAX.



1 S300 **ROOF FRAMING PLAN**
SCALE: ¼" = 1'-0"
PLAN NORTH

SHEAR WALL KEY

SW1 SHEAR WALL
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
- 1/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 2'-0" O.C.
- REQUIRES SIMPSON LTTP2 HOLDOWN FASTENED TO 2-PLY STUDS W/ 5/8" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-XP" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

TYPICAL WALL UNLESS NOTED
- 7/16" STRUCTURAL I SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
- 1/2" DIAMETER F1554 GRADE 36 STANDARD "J" BOLTS W/ 7" EMBEDMENT @ 3'-0" O.C.
- NO HOLDDOWNS REQUIRED

LINTEL SCHEDULE

LENGTH OF SPAN	MEMBER SIZE (GALVANIZED)
4'-0" & LESS	L4x4x1/4 WITH 6" BEARING EACH END
6'-6" & LESS	L6x4x3/8 (LLV) WITH 6" BEARING EACH END
8'-0" & LESS	L8x4x7/16 (LLV) WITH 6" BEARING EACH END
12'-0" & LESS	L8x4x5/8 (LLV) WITH 12" BEARING EACH END

HEADER SCHEDULE

LABEL	HEADER	CRIPPLE/JACK	JAMB/KING
"H1"	2 Ply 2x8 Doug Fir No.2	Single Ply 2x6 SYP Sel. Struct.	3 Ply 2x6 SYP Sel. Struct.
"H2"	2 Ply 2x12 Doug Fir Sel. Struct.	2 Ply 2x6 SYP Sel. Struct.	4 Ply 2x6 SYP Sel. Struct.

REVISIONS:

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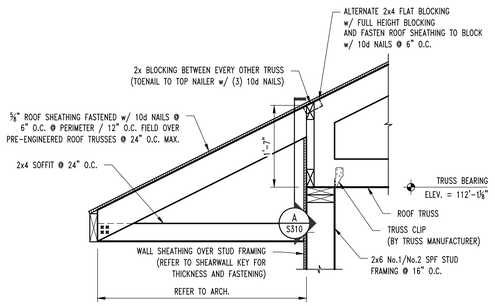
CFPD Station 3 Remodel

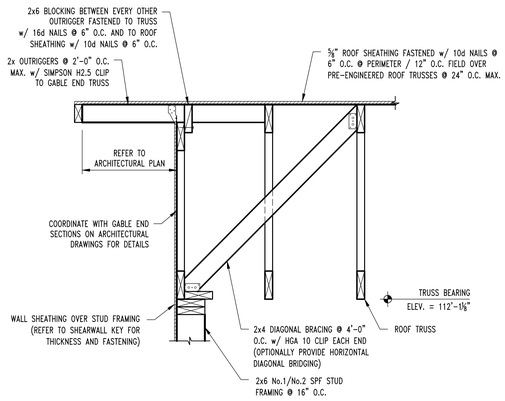
6310 WELDON SPRINGS ROAD
WELDON SPRINGS, MISSOURI

DRAWING INCLUDES:
ROOF FRAMING PLAN

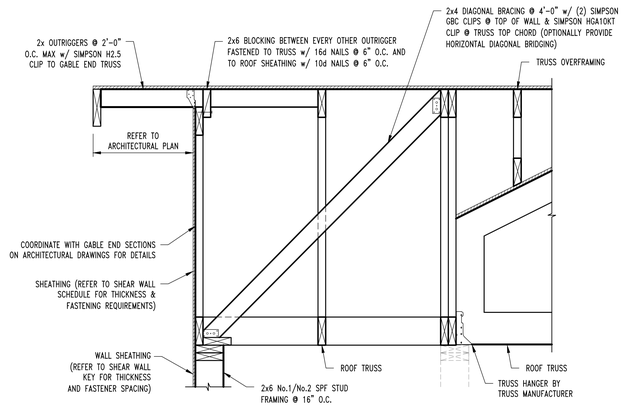
DESIGNED:	GLL
DRAWN:	RCA
PROJECT NO.:	180190
SHEET:	S300



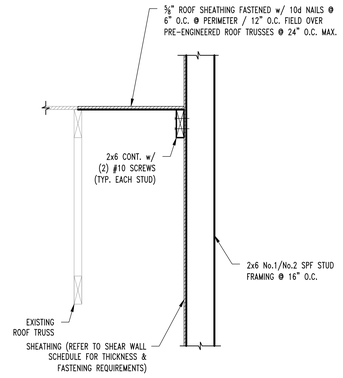
S1 S300 **ROOF FRAMING SECTION**
SCALE: 1" = 1'-0"



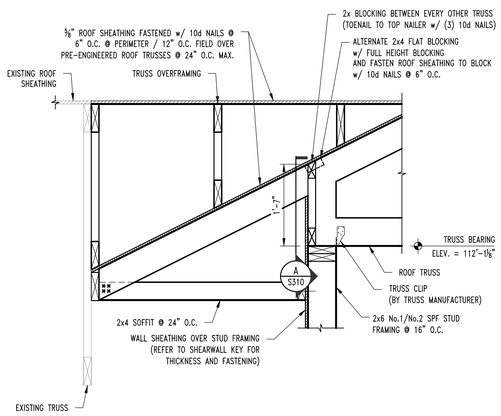
S2 S300 **ROOF FRAMING SECTION**
SCALE: 1" = 1'-0"



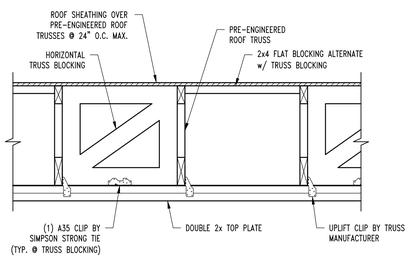
S3 S300 **ROOF FRAMING SECTION**
SCALE: 1" = 1'-0"



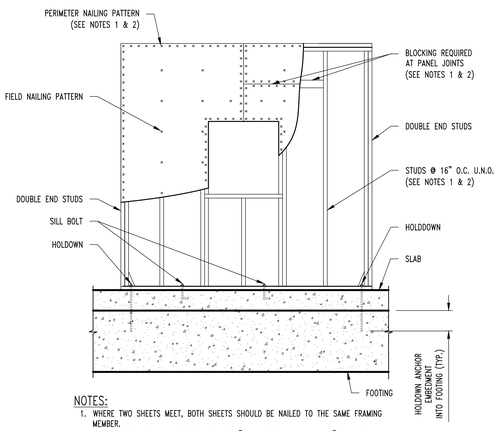
S4 S300 **ROOF FRAMING SECTION**
SCALE: 1" = 1'-0"



S5 S300 **ROOF FRAMING SECTION**
SCALE: 1" = 1'-0"

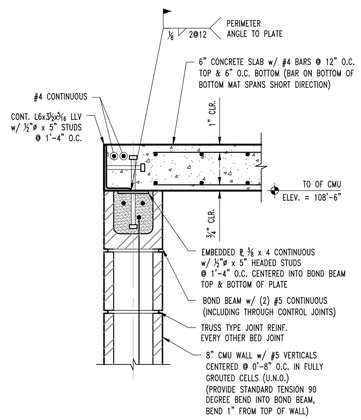


A S310 **ROOF FRAMING SECTION**
SCALE: 1" = 1'-0"

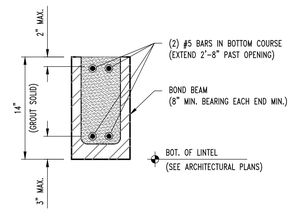


NOTES:
1. WHERE TWO SHEETS MEET, BOTH SHEETS SHOULD BE NAILED TO THE SAME FRAMING MEMBER.
2. WHEN SHEATHING NAILS ARE SPACED AT 2" O.C. FOR 8d NAILS OR 3" O.C. FOR 10d NAILS, 3x OR DOUBLE 2x FRAMING MEMBERS ARE REQUIRED WHERE SHEETS MEET. FACE NAIL DOUBLE 2x MEMBERS TOGETHER w/ 16d NAILS @ 2½" O.C. STAGGERED EACH FACE OF STUD.
3. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.

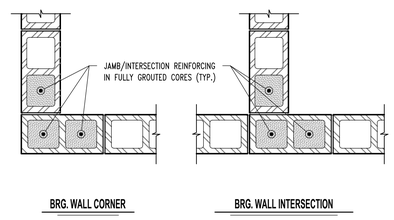
S10 S300 **TYPICAL SHEAR WALL DETAIL**
SCALE: ½" = 1'-0"



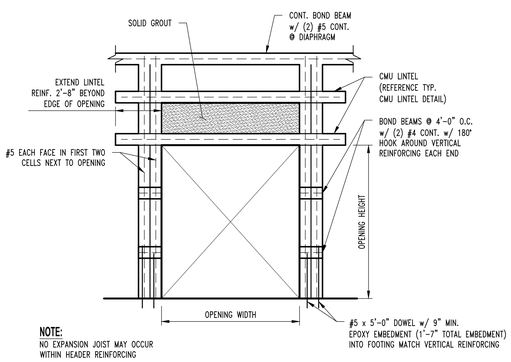
SS1 S300 **HARDENED SPACE SECTION**
SCALE: 1½" = 1'-0"



TYPICAL CMU LINTEL DETAIL

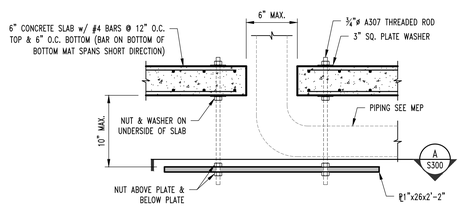


TYPICAL CMU WALL VERT REINFORCING

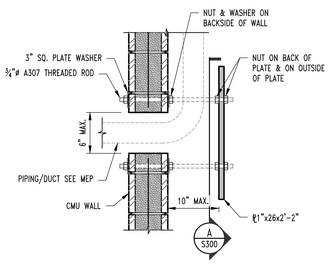


NOTE:
NO EXPANSION JOIST MAY OCCUR WITHIN HEADER REINFORCING

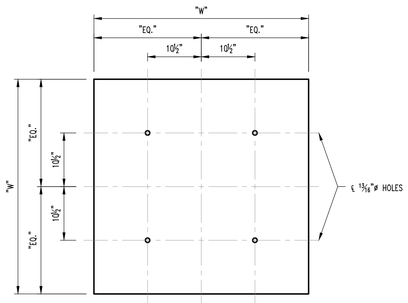
TYPICAL HARDENED SPACE MASONRY OPENING REINFORCEMENT w/ NO STEEL HEADER



CONCRETE LID PENETRATION @ SHELTER



CONCRETE WALL PENETRATION @ SHELTER



SECTION - A

REVISIONS:

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