

# NEW COMMUNITY BUILDING

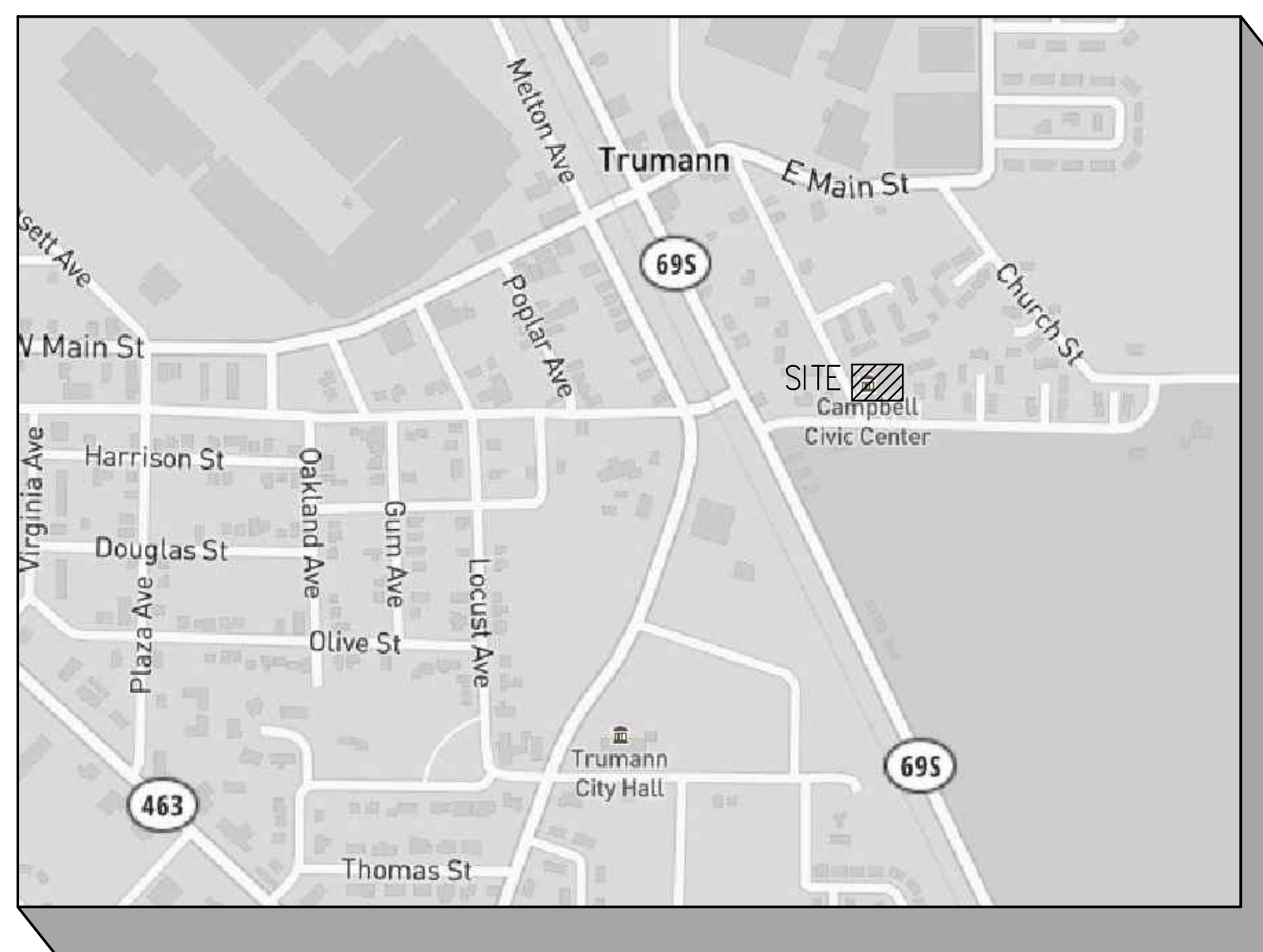
## FOR

# TRUMANN HOUSING AUTHORITY

TRUMANN, ARKANSAS

## U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

1. THESE CONSTRUCTION DOCUMENTS ILLUSTRATE AND SPECIFY WORK TO BE EXECUTED IN TRUMANN, ARKANSAS
2. THE IMPROVEMENT NOTES ARE INTENDED TO COMPLIMENT THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE ENTIRE BID PACKAGE. ANY WORK IDENTIFIED ANY PLACE IN THE CONTRACT DOCUMENTS IS PART OF THE CONTRACT WHETHER PART OF THE COMPREHENSIVE NOTES OR NOT.
3. A PROJECT MANUAL IS PROVIDED WITH THIS DOCUMENT SET WHICH PROVIDES MORE SPECIFIC INFORMATION AND REQUIREMENTS FOR THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND REQUIRED QUANTITIES PRIOR TO THE PREPARATION AND PRESENTATION OF BID. THE PROJECT MANUAL IS PART OF THE CONSTRUCTION DOCUMENTS.
4. CONSTRUCTION DOCUMENTS ONLY ILLUSTRATE THE DESIGN INTENT. ALL BIDDING CONTRACTORS AND SUBCONTRACTORS SHALL NOTIFY THE ENGINEERS/ARCHITECTS IN WRITING OF ANY ENCUMBRANCES, DISCREPANCIES OR ERRORS WITHIN TEN (10) CALENDAR DAYS PRIOR TO THE BID.
5. IF DIMENSIONS ARE IN QUESTION, DRAWINGS SHALL NOT BE SCALED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF DIMENSIONS AND OBTAINING CLARIFICATION OF CONFLICTS WITH THE ENGINEER/ARCHITECT BEFORE CONTINUING CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING WITH ALL LOCAL, STATE AND FEDERAL CODES. IF A CONFLICT WITH CODE IS FOUND, CONTRACTOR SHALL CALL IT TO THE ATTENTION OF THE ENGINEER/ARCHITECT FOR RESOLUTION PRIOR TO RESUMING CONSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT SIZES, CONNECTIONS AND LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES (MECHANICAL, ELECTRICAL AND PLUMBING) WITH THE GENERAL CONSTRUCTION.
8. THE HOUSING AUTHORITY SHALL HAVE FIRST RIGHT TO ALL SALVAGEABLE FIXTURES AND MATERIALS. VERIFY WITH THE HOUSING AUTHORITY BEFORE REMOVAL OF ITEMS FROM THE SITE.
9. PAINT NEW CONSTRUCTION AND PAINT PATCHED OR REPAIRED SURFACES IN ACCORDANCE WITH SPECIFICATIONS.
10. PLANS FOR EXISTING BUILDINGS UNITS ARE ILLUSTRATED IN A TYPICAL LAYOUT. CONTRACTOR SHALL NOTE, ACTUAL LAYOUT MAY HAVE A 'MIRROR IMAGE' AND THAT THE WORK INDICATED/REQUIRED SHALL APPLY AS IF SHOWN IN CORRECT ORIENTATION.
11. VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. CONDITIONS ENCOUNTERED THAT DIFFER FROM THE CONDITIONS INDICATED ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ ENGINEER. GAIN RESOLUTION OF THE DISCREPANCIES PRIOR TO BEGINNING WORK.



VICINITY MAP  
N.T.S.

### BOARD OF COMMISSIONERS

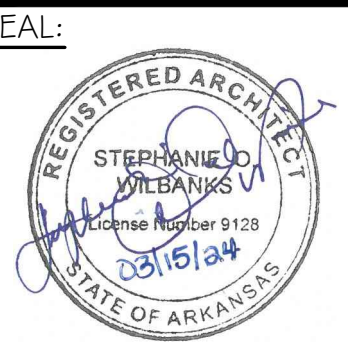
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 SCOTT RICHARDS .....VICE CHAIRMAN  
 DAMON SLINKARD .....COMMISSIONER  
 RICK GILLETTE .....COMMISSIONER  
 KENNEDY THOMPSON.....RESI. COMMISSIONER  
 HAYDEN SADLER .....EXECUTIVE DIRECTOR

March 15, 2024

# INDEX OF DRAWINGS

- G-01 COVER
- G-02 SHEET INDEX
- G-03 CODE REVIEW AND LIFE SAFETY PLAN
- C0.01 EXISTING CONDITIONS PLAN
- C0.02 DEMOLITION PLAN
- C1.01 SITE PLAN
- C1.02 LAYOUT PLAN
- C2.01 GRADING AND DRAINAGE PLAN
- C3.01 EROSION CONTROL PLAN - PHASE 1
- C3.02 EROSION CONTROL PLAN - PHASE 2
- C3.03 EROSION CONTROL NOTES AND DETAILS
- C4.01 WATER AND SEWER PLAN
- C5.01 EROSION CONTROL PLAN - PHASE 2
- C5.02 EROSION CONTROL PLAN - PHASE 2
- S1.0 GENERAL NOTES, SPECIAL INSPECTIONS, SHEARWALL SCHED. & DETAILS
- S2.0 FOUNDATION PLAN
- S2.1 ROOF FRAMING PLAN
- S3.0 FOUNDATION SECTIONS
- S3.1 ROOF FRAMING SECTIONS
- AS-01 EAST SIDE GARDENS ARCHITECTURAL SITE PLAN
- AD-01 EXISTING DEMO FOUNDATION PLAN
- AD-02 EXISTING SLAB DETAILS
- A-01 RENO FLOOR PLAN
- A-02 REFLECTED CEILING PLAN
- A-03 ROOF AND FRAMING PLAN
- A-04.1 EXTERIOR ELEVATIONS
- A-04.2 EXTERIOR ELEVATIONS
- A-05.1 BUILDING AND WALL SECTIONS
- A-05.2 WALL SECTIONS AND DETAILS
- A-06 ENLARGED PLANS AND INTERIOR ELEVATIONS
- A-07 INTERIOR ELEVATIONS AND DETALS
- A-08 DOOR TYPE, DOOR SCHEDULE AND DETAILS
- A-09 FINISH FLOOR PLAN
- M0.1 GENERAL NOTES AND LEGEND
- M1.1 FLOOR PLAN - MECHANICAL
- M2.1 SECTIONS
- M3.1 SECTIONS - MECHANICAL
- M3.2 DETAILS - MECHANICAL
- M3.3 KITCHEN EQUIPMENT
- M3.4 KITCHEN EQUIPMENT
- M3.5 KITCHEN EQUIPMENT
- M3.6 KITCHEN EQUIPMENT
- M3.7 KITCHEN EQUIPMENT
- M4.1 SCHEDULES - MECHANICAL
- E0.1 SITE PLAN - POWER
- E1.1 FLOOR PLAN - LIGHTING
- E2.1 FLOOR PLAN - POWER
- E3.1 ELECTRICAL DETAILS
- P0.1 GENERAL NOTES, SCHEDULES AND LEGEND
- P1.1 FLOOR PLAN - DWV
- P1.2 FLOOR PLAN - PLUMBING
- P2.1 RISER DIAGRAMS
- P3.1 DETAILS - PLUMBING
- FP0.1 GENERAL NOTES, SCHEDULES, AND LEGEND
- FP1.1 SITE PLAN - FIRE PROTECTION
- FP2.1 FLOOR PLAN - FIRE PROTECTION
- FP3.1 DETAILS - FIRE PROTECTION

03/14/2024  
 DATE: SSP  
 DRAWN BY: SOW  
 DESIGNER: SOW  
 CHECKED BY: SOW



**WILBANKS**  
 ARCHITECTURE & ASSOCIATES, LLC

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SHEET INDEX

NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUWANN, ARKANSAS

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



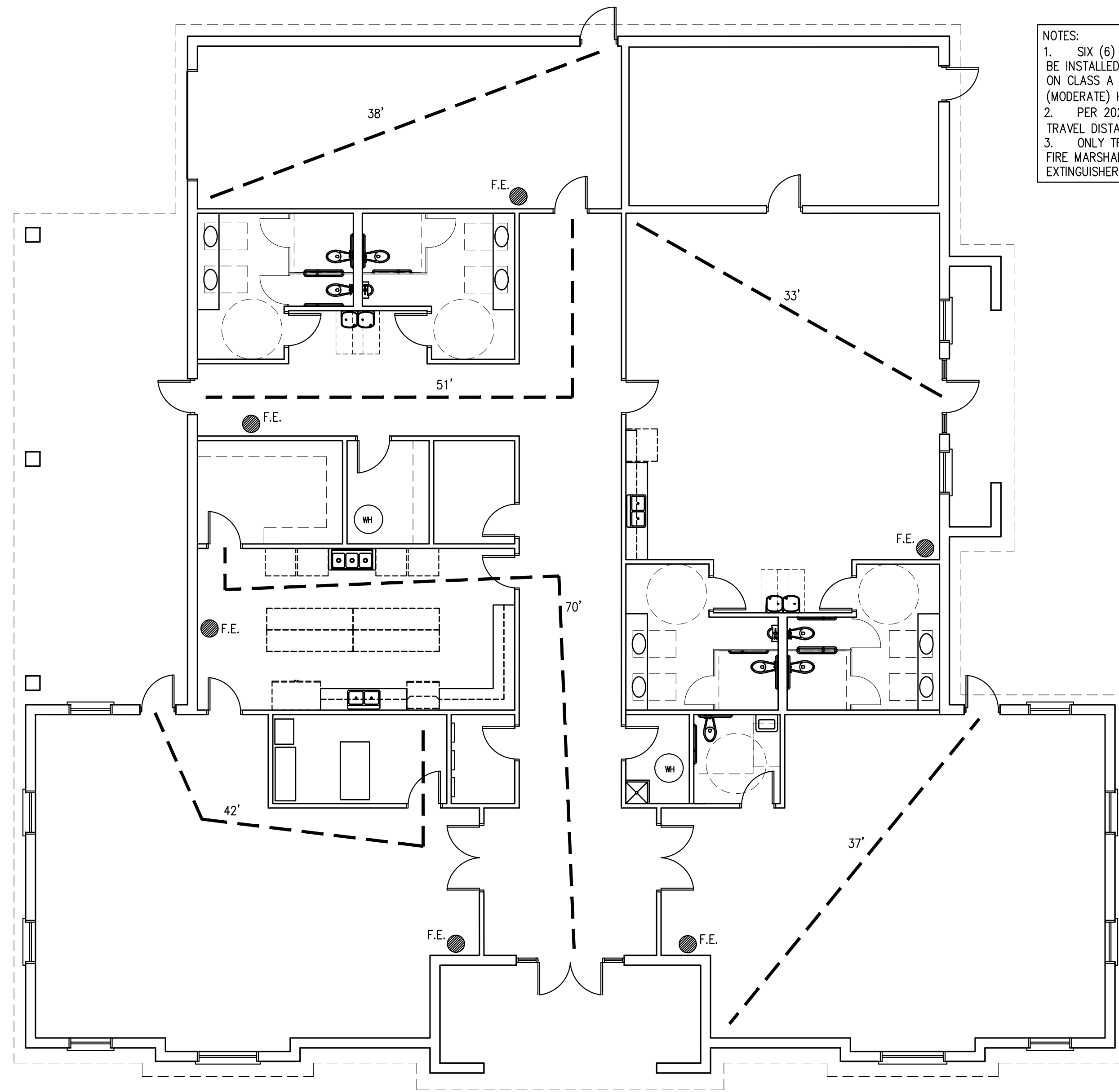
SHEET NUMBER:

G-02

PROJECT:

WAA: 1314-33

NEW COMMUNITY BUILDING			
CODE SUMMARY		03/14/2023	
109 SPRUCE DRIVE			
TRUMANN, ARKANSAS			
APPLICABLE CODES			
2021 INTERNATIONAL BUILDING CODE			
2021 INTERNATIONAL PLUMBING CODE			
2021 INTERNATIONAL MECHANICAL CODE			
2006 INTERNATIONAL FUEL GAS CODE			
2021 INTERNATIONAL FIRE PREVENTION CODE			
2006 NFPA LIFE SAFETY CODE			
2017 NATIONAL ELECTRICAL CODE			
2021 INTERNATIONAL ENERGY CODE			
2009 ANSI CODE			
OCCUPANCY TYPE			
B - BUSINESS			
STORIES = 1 < 2 MAX PER TABLE 504.4			
BUILDING HEIGHT = 25' < 40' MAX PER TABLE 504.3			
TOTAL BUILDING AREA = 7,300 SQFT < 9,000 SQFT MAX PER TABLE 506.2			
CONSTRUCTION TYPE = TYPE V-B UNSPRINKLED			
7300/150 = 49 OCC LOAD TABLE 1004.1.2			
CONSTRUCTION AND BUILDING REQUIREMENTS			
FIRE RESISTANCE RATING PER TABLE 601:			
STRUCTURAL FRAME - 0 HOUR			
EXT. AND INT. BEARING WALLS - 0 HOUR			
INT. NONBEARING WALLS - 0 HOUR			
FLOOR CONSTRUCTION - 0 HOUR			
ROOF CONSTRUCTION - 0 HOUR			
EXT. NONBEARING WALLS - 0 HOUR PER TABLE 602			
REQUIRED SEPARATION - NONE TABLE 508.4			
FINISHES - A/B/C TABLE 803.13			
MAX TRAVEL DISTANCE TO EXIT = 70' < 200' TABLE 1017.2			
ACTUAL EXITS - 5 PUBLIC AND 2 OFF DIRECT ROOMS (MAINTENANCE SHOP AND STORM SHELTER)			
PLUMBING FIXTURES REQUIRED			
OCCUPANCY TYPE B WITH OCC LOAD = 49			
(MALE = 25 FEMALE = 25)			
WATER CLOSETS M/F REQ'D = 1 EACH			
WATER CLOSETS M/F PROVIDED = 4 EACH , 1 UNISEX			
LAV. M/F REQ'D = 1 EACH			
LAV. M/F PROVIDED = 4 EACH, 1 UNISEX			
D.F. REQ' D = 1			
D.F. PROVIDED = 2 (ONE IN CORRIDOR, ONE IN MULTIPURPOSE SPACE)			
SERVICE SINK = 1			



NOTES:  
1. SIX (6) NEW FIRE EXTINGUISHERS ARE TO BE INSTALLED. EXTINGUISHER COUNT IS BASED ON CLASS A FIRE HAZARD, ORDINARY (MODERATE) HAZARD OCCUPANCY.  
2. PER 2021 IBC, TABLE 906.3(1), MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER TO BE 75'.  
3. ONLY TRUMANN FIRE CHIEF OR AR STATE FIRE MARSHAL TO EDIT, ADD, OR MOVE FIRE EXTINGUISHERS AND THEIR LOCATIONS.

1A LIFE SAFETY PLAN  
SCALE: 1/8" = 1'-0"



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03/14/2024  
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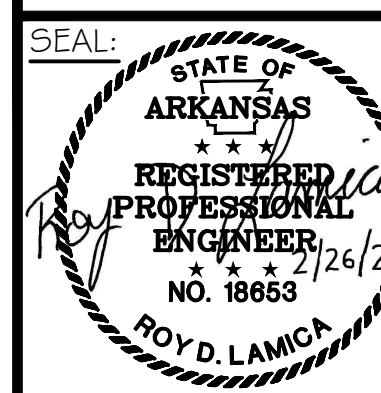
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CODE REVIEW AND LIFE SAFETY PLAN  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

SHEET NUMBER:  
**G-03**  
PROJECT:  
WAA: 1314-33

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- NOTES:
1. SURVEY PROVIDED BY ALLEN & HOSHALL.
  2. UTILITY DISCLAIMER: LOCATION OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE PROJECT SITE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL UTILITIES AND STRUCTURES ON THE PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO THE UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.
  3. FOR UNDERGROUND UTILITY LOCATIONS CALL ARKANSAS ONE CALL.
  4. FIELD VERIFY EXISTING GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS PLAN  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS



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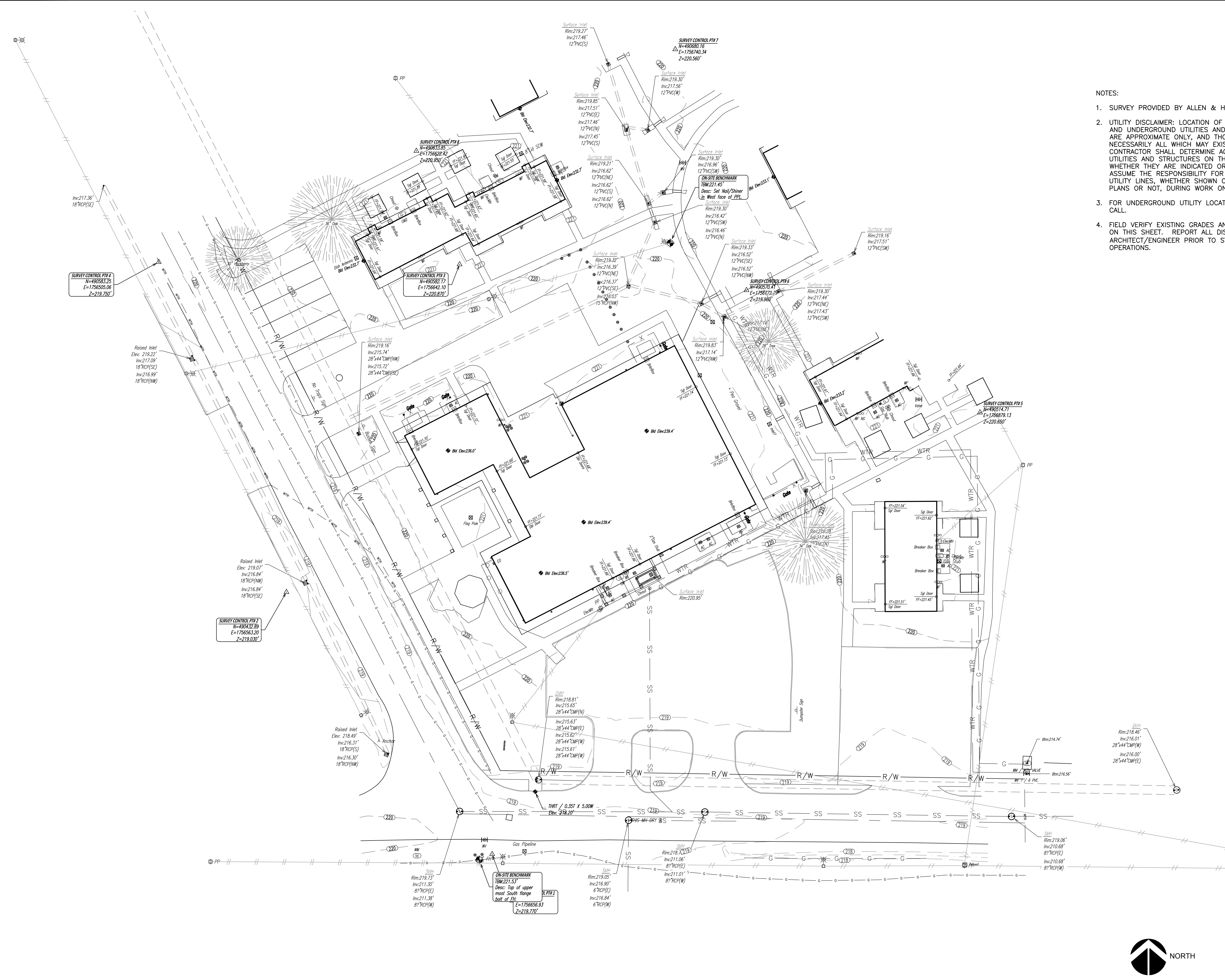
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SHEET NUMBER:

**C0.01**

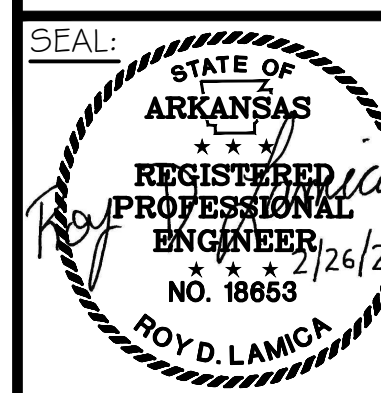
PROJECT:

WAA: 1314-33



SCALE 1" = 20'

1A EXISTING CONDITIONS PLAN  
 SCALE: 1" = 20'



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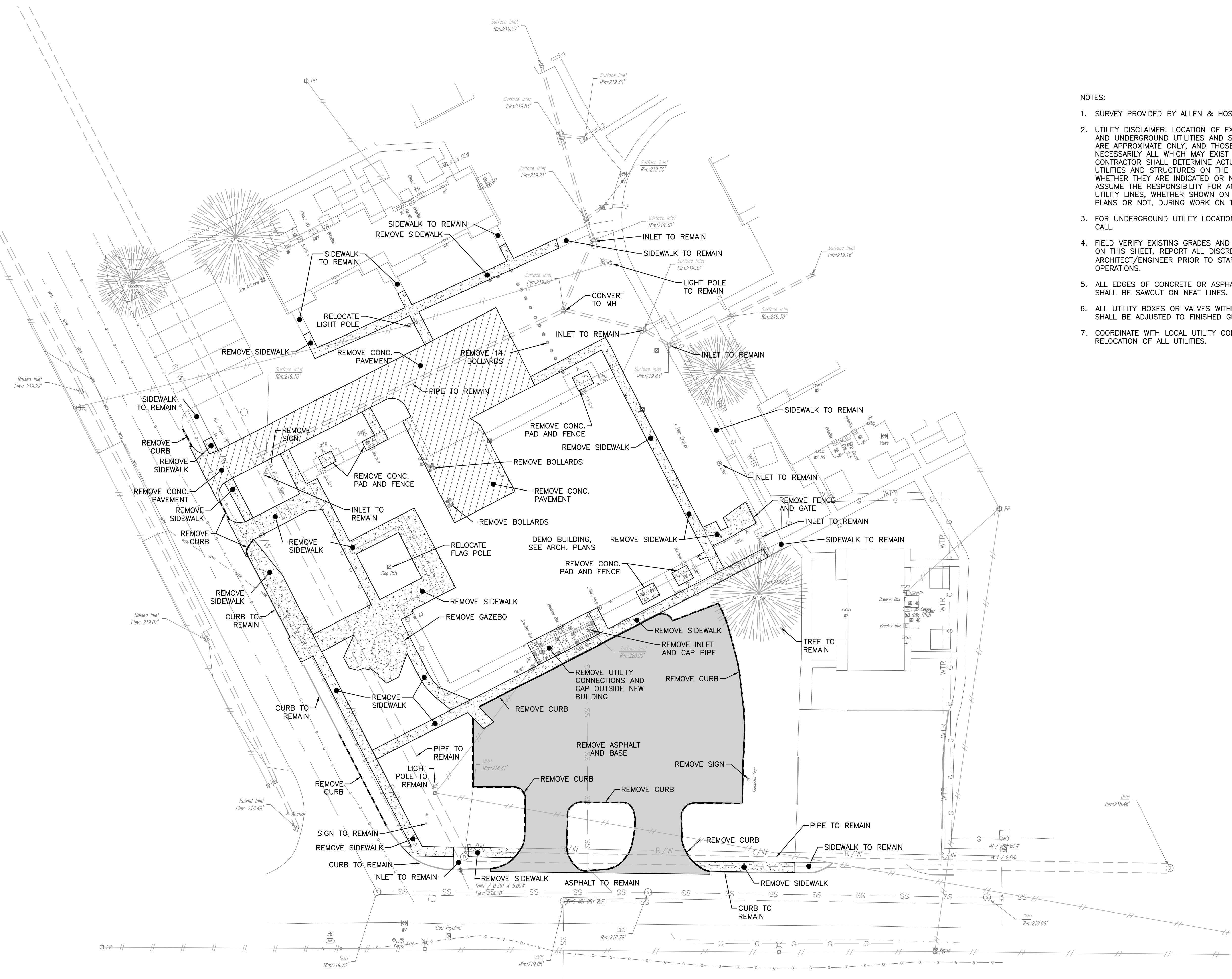
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DEMOLITION PLAN

NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

- NOTES:
1. SURVEY PROVIDED BY ALLEN & HOSHALL.
  2. UTILITY DISCLAIMER: LOCATION OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE PROJECT SITE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL UTILITIES AND STRUCTURES ON THE PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO THE UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.
  3. FOR UNDERGROUND UTILITY LOCATIONS CALL ARKANSAS ONE CALL.
  4. FIELD VERIFY EXISTING GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION OPERATIONS.
  5. ALL EDGES OF CONCRETE OR ASPHALT TO BE REMOVED SHALL BE SAWCUT ON NEAT LINES.
  6. ALL UTILITY BOXES OR VALVES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISHED GRADE.
  7. COORDINATE WITH LOCAL UTILITY COMPANY FOR DEMO AND RELOCATION OF ALL UTILITIES.



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SCALE 1" = 20'

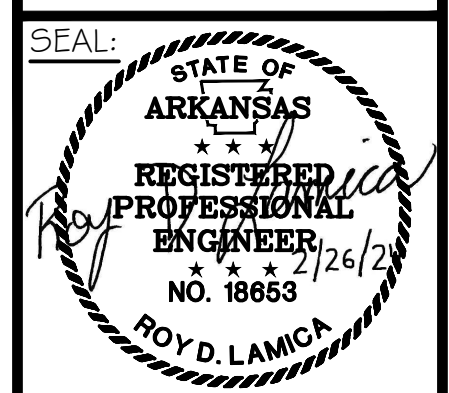
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C0.02

PROJECT:

WAA: 1314-33

DATE: RDL  
 DRAWN BY: RDL  
 DESIGNER: RDL  
 CHECKED BY:



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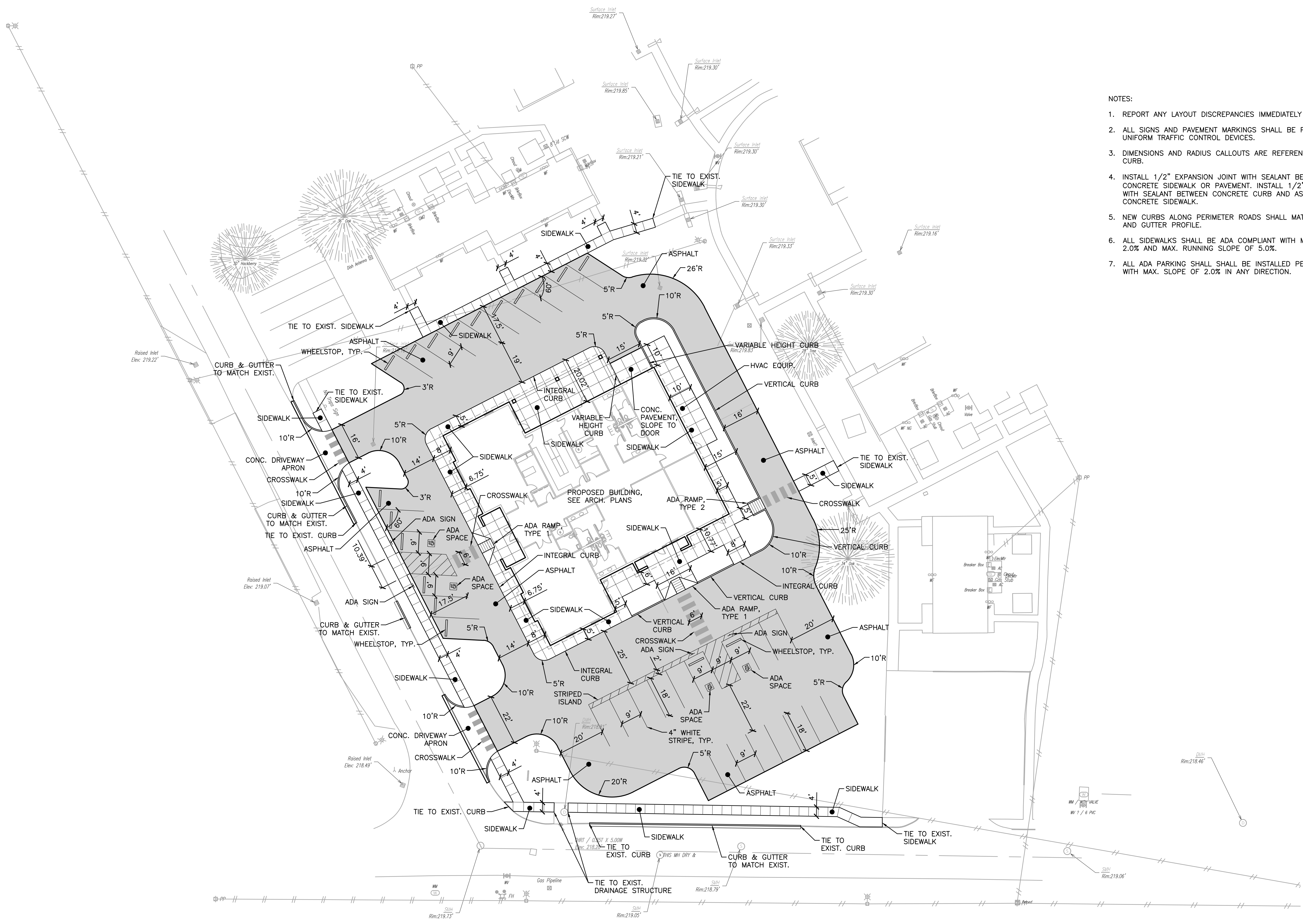
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SITE PLAN

NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

- NOTES:
- REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
  - ALL SIGNS AND PAVEMENT MARKINGS SHALL BE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  - DIMENSIONS AND RADIUS CALLOUTS ARE REFERENCED TO THE FACE OF CURB.
  - INSTALL 1/2" EXPANSION JOINT WITH SEALANT BETWEEN BUILDING AND CONCRETE SIDEWALK OR PAVEMENT. INSTALL 1/2" EXPANSION JOINT WITH SEALANT BETWEEN CONCRETE CURB AND ASPHALT PAVEMENT OR CONCRETE SIDEWALK.
  - NEW CURBS ALONG PERIMETER ROADS SHALL MATCH EXISTING CURB AND GUTTER PROFILE.
  - ALL SIDEWALKS SHALL BE ADA COMPLIANT WITH MAX. CROSS SLOPE OF 2.0% AND MAX. RUNNING SLOPE OF 5.0%.
  - ALL ADA PARKING SHALL BE INSTALLED PER ADA REGULATIONS WITH MAX. SLOPE OF 2.0% IN ANY DIRECTION.



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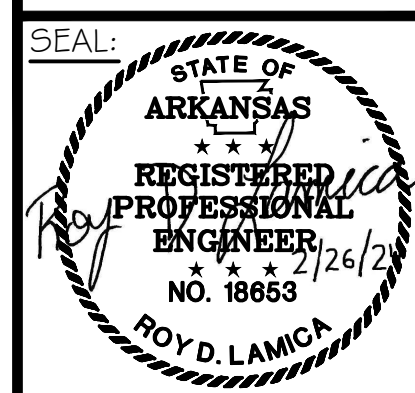
ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE



SCALE 1" = 20'

1A SITE PLAN  
 SCALE: 1" = 20'

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LAYOUT PLAN

NEW COMMUNITY BUILDING  
 TRUMAN HOUSING AUTHORITY  
 TRUWANN, ARKANSAS

SHEET NUMBER:  
**C1.02**

PROJECT:  
 WAA: 1314-33

- NOTES:
1. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
  2. COORDINATES ARE REFERENCED TO CONTROL POINTS SHOWN.

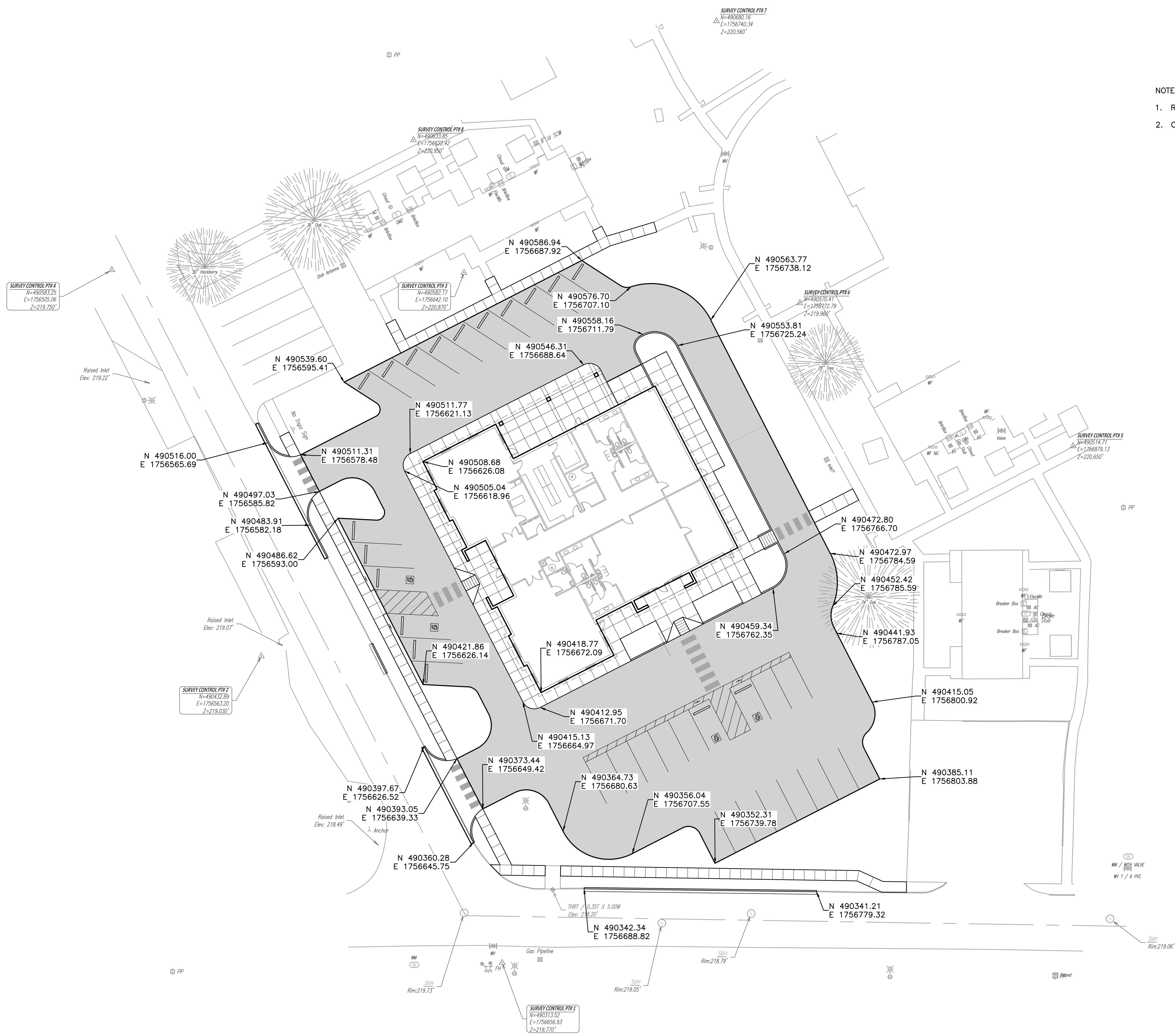


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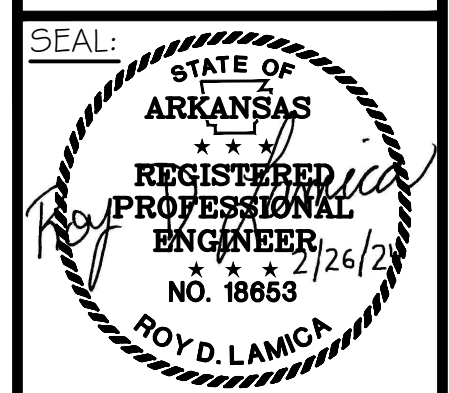
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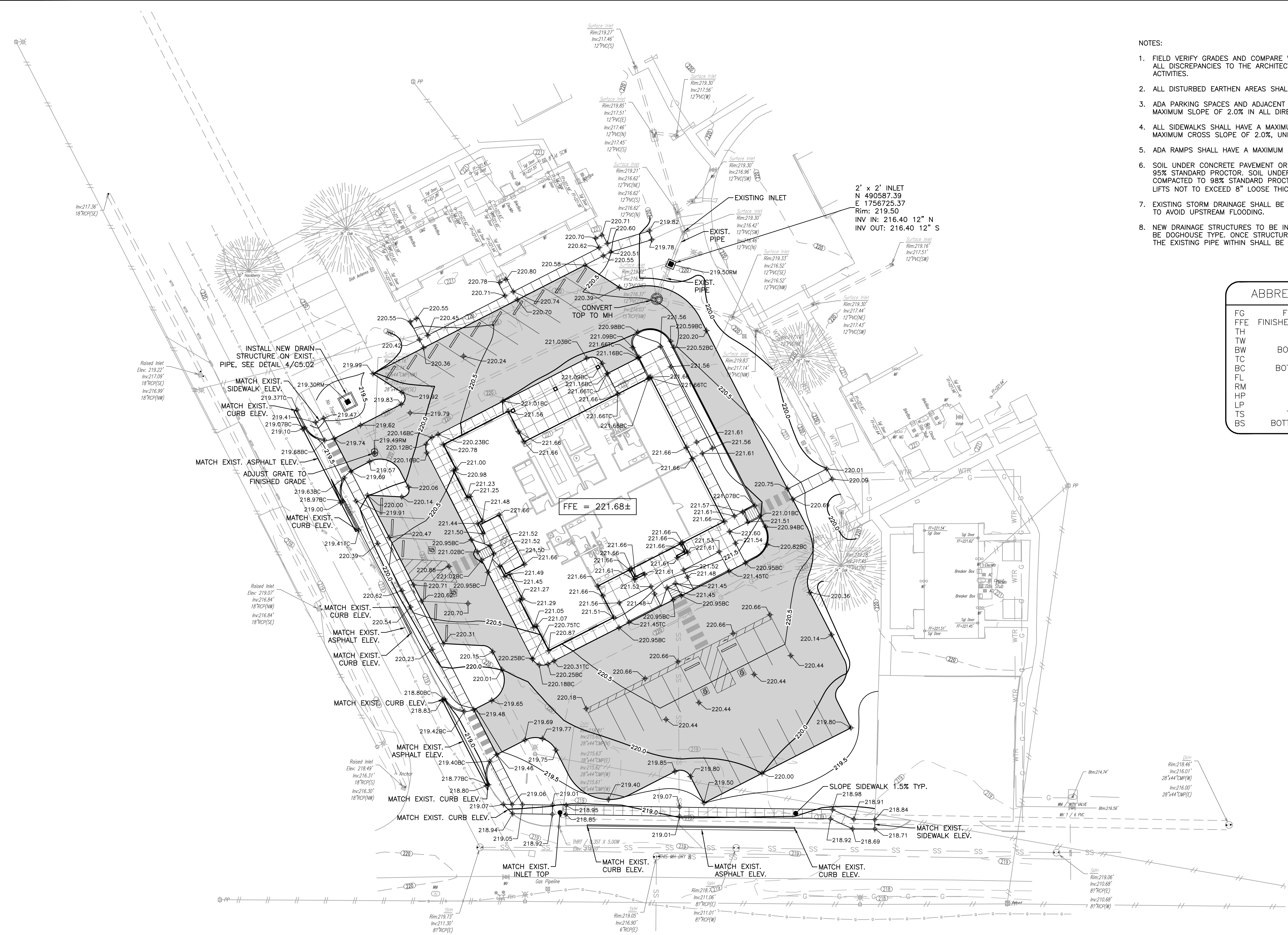
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GRADING & DRAINAGE PLAN  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

- NOTES:
- FIELD VERIFY GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
  - ALL DISTURBED EARTHEN AREAS SHALL BE SODDED PER SHEET C3.2.
  - ADA PARKING SPACES AND ADJACENT ACCESS AISLES SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ALL DIRECTIONS.
  - ALL SIDEWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.0% AND A MAXIMUM CROSS SLOPE OF 2.0%, UNLESS OTHERWISE NOTED.
  - ADA RAMPS SHALL HAVE A MAXIMUM SLOPE OF 8.3%.
  - SOIL UNDER CONCRETE PAVEMENT OR SIDEWALKS SHALL BE COMPACTED TO 95% STANDARD PROCTOR. SOIL UNDER NEW BUILDING SHALL BE COMPACTED TO 98% STANDARD PROCTOR. FILL SOIL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE THICKNESS.
  - EXISTING STORM DRAINAGE SHALL BE MAINTAINED DURING CONSTRUCTION TO AVOID UPSTREAM FLOODING.
  - NEW DRAINAGE STRUCTURES TO BE INSTALLED ON EXISTING PIPES, SHALL BE DOGHOUSE TYPE. ONCE STRUCTURE HAS BEEN INSTALLED AND SEALED, THE EXISTING PIPE WITHIN SHALL BE CUT AND REMOVED.

ABBREVIATIONS	
FG	FINISHED GRADE
FFE	FINISHED FLOOR ELEV
TH	THRESHOLD
TW	TOP OF WALL
BW	BOTTOM OF WALL
TC	TOP OF CURB
BC	BOTTOM OF CURB
FL	FLOWLINE
RM	RIM
HP	HIGH POINT
LP	LOW POINT
TS	TOP OF STAIRS
BS	BOTTOM OF STAIRS



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SCALE 1" = 20'

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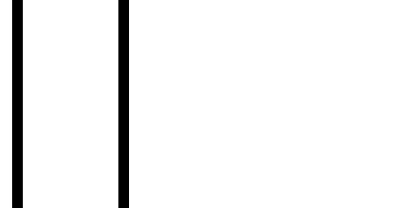




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EROSION CONTROL NOTES & DETAILS  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

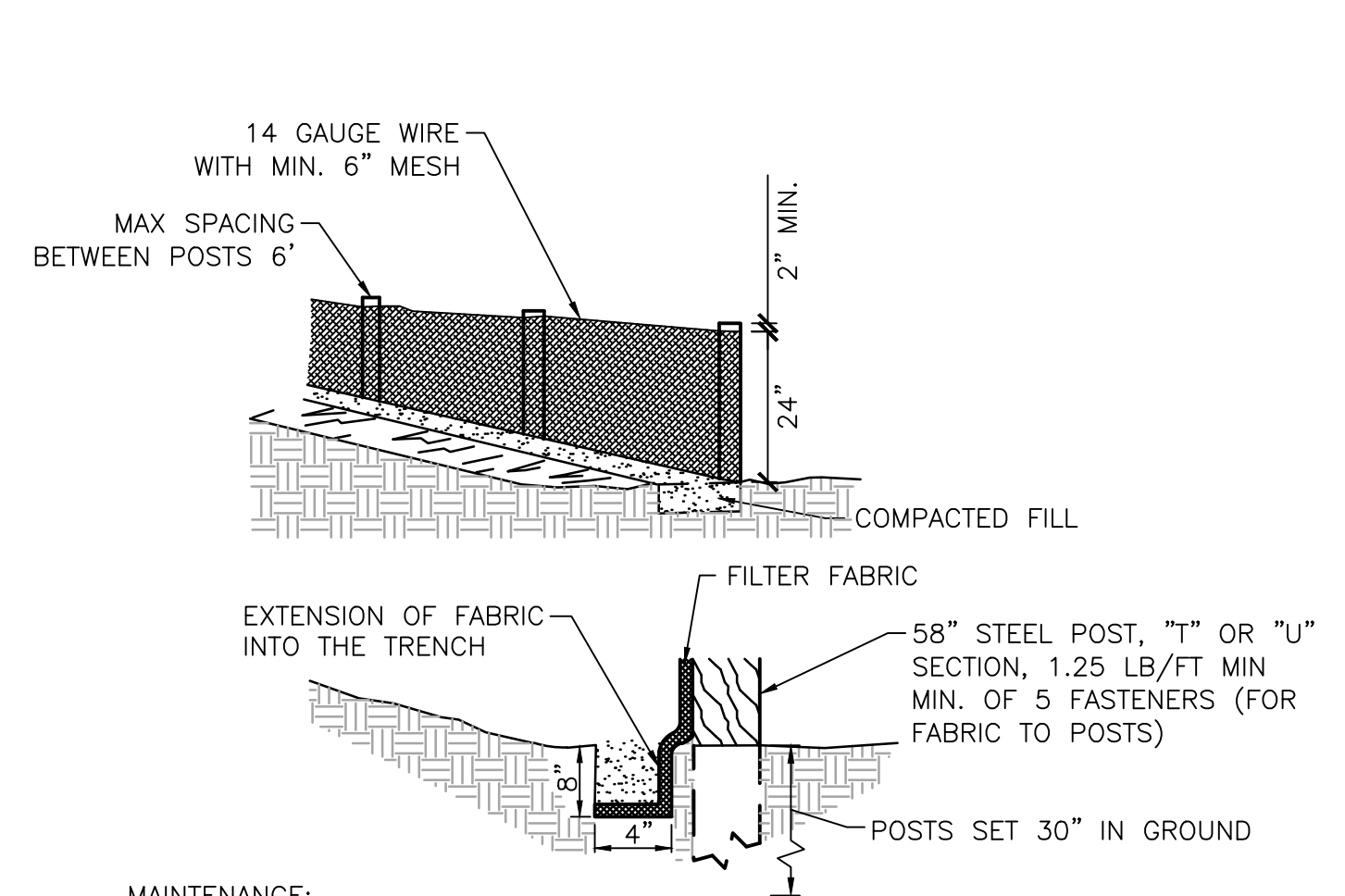


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SHEET NUMBER:  
**C3.03**  
 PROJECT:  
 WAA: 1314-33

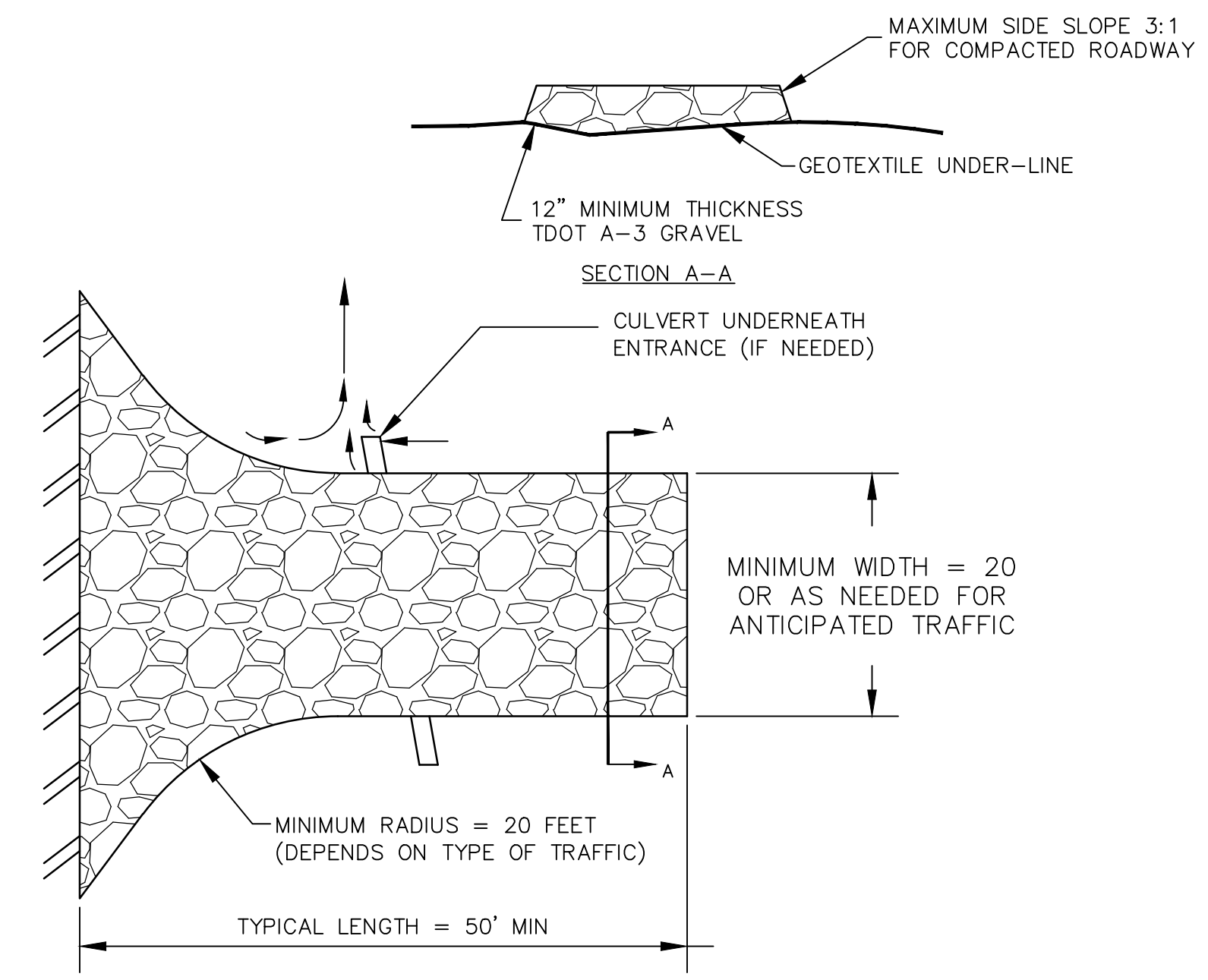
**EROSION CONTROL NOTES**

- THE PURPOSE OF THIS EROSION CONTROL PLAN IS TO PREVENT SILTATION AND OTHER POLLUTANTS, DUE TO CONSTRUCTION, FROM ENTERING ADJACENT STREAMS AND PROPERTY.
- CLEARING AND GRUBBING IS TO BE HELD TO THE MINIMUM WIDTH NECESSARY TO ACCOMMODATE SLOPES. UNNECESSARY CANOPY REMOVAL (TREES, SHRUBS, ETC.) IS PROHIBITED.
- MAINTAIN ALL GROUND COVER WHENEVER POSSIBLE. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT TO RECEIVE PAVING SHALL BE STABILIZED WITH GRAVEL AS SOON AS POSSIBLE.
- ALL DITCHES AND FRESH CUTS IN DRAINAGE WAYS SHALL BE STABILIZED WITH SOD WHERE INDICATED ON PLAN.
- TO REDUCE SEDIMENT IN RUNOFF, EROSION CONTROL MEASURES SHALL BE INSTALLED PROMPTLY DURING ALL CONSTRUCTION PHASES.
- SEDIMENT TRAPS SHALL BE LOCATED AS NEEDED BY THE ENGINEER.
- SITE EROSION CONTROLS SHALL BE CHECKED BI-WEEKLY AND AT LEAST 72 HOURS APART AND IF NECESSARY REPAIRED WITHIN 24 HOURS AFTER EACH RAINFALL GREATER THAN 0.5". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY.
- DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S EXPENSE.
- ALL AREAS TO REMAIN BARE GREATER THAN 14 DAYS MUST BE TEMPORARILY STABILIZED. ALL SLOPES GREATER THAN 3 TO 1 TO REMAIN BARE FOR MORE THAN 7 DAYS MUST BE TEMPORARILY STABILIZED.
- SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN RUN-OFF. ALL COST FOR SEDIMENT REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- UPON COMPLETE REMOVAL OF SEDIMENT TRAPS, SPECIAL DITCHES, ETC., THE AREA WHERE THEY WERE CONSTRUCTED IS TO BE TOPSOILED, SEEDED, AND MULCHED.
- ALL STOCKPILES TO BE CONTAINED BY SILT FENCE IN ORDER TO PREVENT SEDIMENT RUNOFF FROM ENTERING NEARBY STREAMS.
- SHOULDERS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED AGAINST EROSION. SILTATION MEASURES SHALL BE IMPLEMENTED PROMPTLY TO REDUCE THE SEDIMENT IN RUN-OFF FROM THE CONSTRUCTION SITE.
- EQUIPMENT STAGING AND MAINTENANCE AREAS SHALL BE DEVELOPED A SUFFICIENT DISTANCE FROM STREAMS TO ENSURE THAT OIL, GASOLINE, AND OTHER PETROLEUM POLLUTANTS DO NOT ENTER THE WATERWAYS.
- FAILURE TO MAINTAIN GOOD EROSION CONTROL MEASURES COULD RESULT IN A CIVIL PENALTY BEING ISSUED TO THE CONTRACTOR. THE PRIMARY PERMITTEE (OWNER/DEVELOPER) IS ULTIMATELY RESPONSIBLE FOR MEETING THE TERMS AND CONDITIONS OF THE CONSTRUCTION GENERAL PERMIT. ALL PERMITTEES, BOTH PRIMARY AND SECONDARY (TYPICALLY THE CONTRACTOR) CAN BE HELD RESPONSIBLE IF THE TERMS AND CONDITIONS OF THE CONSTRUCTION GENERAL PERMIT ARE NOT MET.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL DEVICES IN GENERAL CONFORMANCE TO THE EROSION CONTROL PLAN. THE EROSION CONTROL PLAN IS PROVIDED TO INDICATE MINIMUM EROSION CONTROL MEASURES REQUIRED OF THE CONTRACTOR AND DOES NOT TAKE INTO ACCOUNT THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION. ADDITIONAL EROSION CONTROL MEASURES SHALL BE UNDERTAKEN BY THE CONTRACTOR AS REQUIRED TO MINIMIZE IMPACTS TO ADJACENT PROPERTIES AND THE DRAINAGE SYSTEM DOWNSTREAM OF THE SITE, AT NO ADDITIONAL COST.
- CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL REQUIRED PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION OR OTHER ACTIVITIES.
- AN EPSC LEVEL 1 CERTIFIED INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS REQUESTED BY THE OWNER DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SATISFYING THE REQUIREMENTS OF THE STATE OF ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY. ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT SO AS TO PREVENT ANY SEDIMENTATION FROM WASHING OFF THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHTS-OF-WAY. STRAW BALE DAMS AND/OR SEDIMENT FENCE SHALL BE INSTALLED AS DIRECTED. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL MAINTENANCE ACTIVITIES FOR THE EROSION CONTROL ELEMENTS AS REQUIRED BY THE STATE OF ARKANSAS DEQ.
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.
- ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, BI-WEEKLY IN DRY PERIODS AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 0.5 INCHES WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ARKANSAS DEQ.
- THE CONTRACTOR IS RESPONSIBLE FOR MEETING THE REQUIREMENTS OF THIS PLAN AND FOR INSTALLING NEW SILT FENCE AS REQUIRED.
- ALL STATE/NPDES PERMITS ARE REQUIRED TO HAVE BEEN OBTAINED BEFORE START UP OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION GENERAL PERMIT, ARAP AND ARMY CORPS OF ENGINEERS PERMIT.
- MUDDY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION THROUGH AN APPROVED DEWATERING BAG SET-UP PRIOR TO ITS DISCHARGE OFF-SITE, INTO STORM DRAINS OR SURFACE WATERS. SILT FENCE FABRIC ALONE IS NOT ADEQUATE AS A FILTER. WATER MUST BE DISCHARGED THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION AND SEDIMENTATION. THE DISCHARGE MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING STREAM.



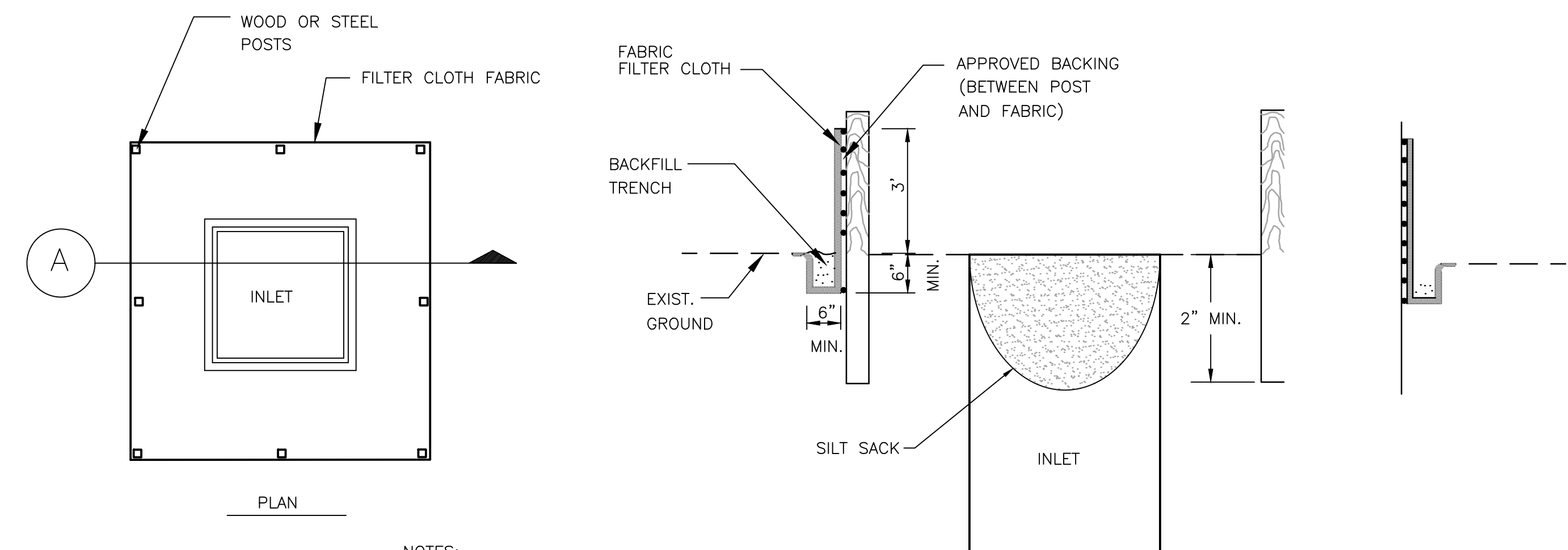
- MAINTENANCE:
- INSPECT SEDIMENT FENCES AT LEAST TWICE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REPLACE BURLAP AS NEEDED.
  - REMOVE SEDIMENT DEPOSITS WHEN THE STORAGE VOLUME HAS BEEN REDUCED BY 50% TO PROVIDE ADEQUATE STORAGE FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

1 TYP. SILT FENCE  
 C3.03 NTS



- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

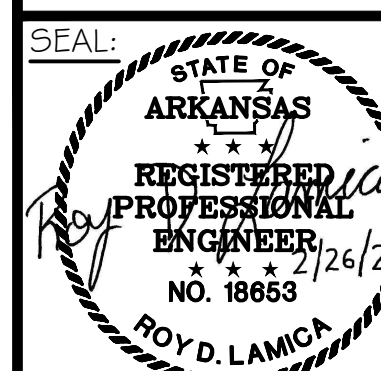
2 TYP. CONSTRUCTION ENTRANCE/EXIT  
 C3.03 NTS



- NOTES:
- THE SAME PRINCIPLE OF INLET PROTECTION APPLIES TO ALL INLETS. ADJUST PLAN LAYOUT AS REQUIRED TO ACHIEVE DESIGN INTENTION.
  - INLET PROTECTION IS REQUIRED UPON INSTALLATION OF INLETS AND SHALL REMAIN ACTIVE UNTIL FINAL SEEDING IS TO TAKE PLACE, AT WHICH TIME SILT FENCE SHALL BE REMOVED ONCE DISTURBED GROUND IS STABILIZED.
  - CONTRACTOR SHALL USE "SILT SACK" OR APPROVED EQUAL IN ADDITION TO SILT FENCE.
  - INLET PROTECTION SHALL BE CHECKED 24 HOURS PRIOR TO FORECASTED RAIN AND CHECKED WITHIN 24 HOURS AFTER RAIN EVENT.
  - INSPECT FABRIC AT LEAST TWICE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- NOTE:  
 REMOVE INLET PROTECTION UPON COMPLETION OF PROJECT (NO SEPARATE PAY)

3 INLET PROTECTION DETAIL  
 C3.03 NTS

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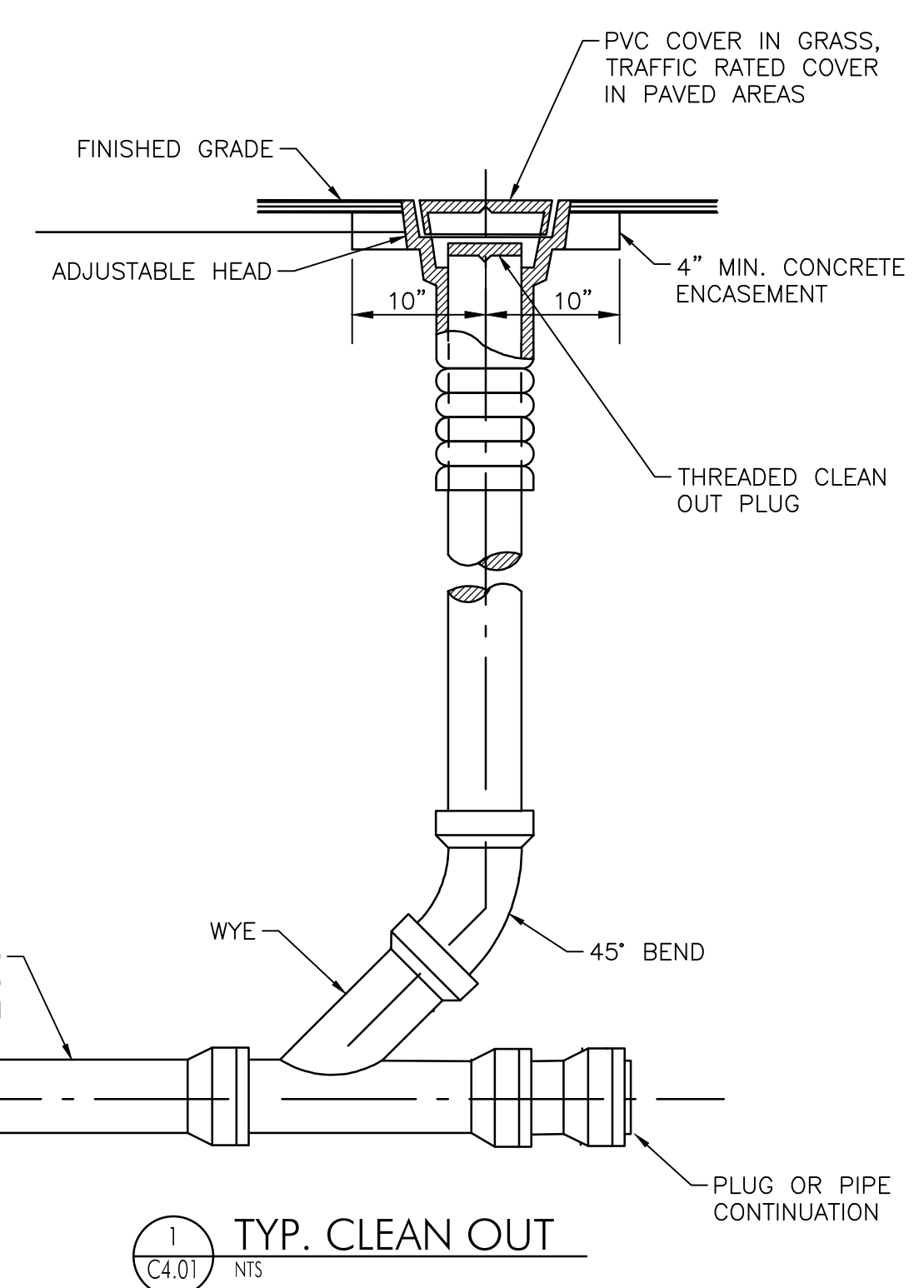
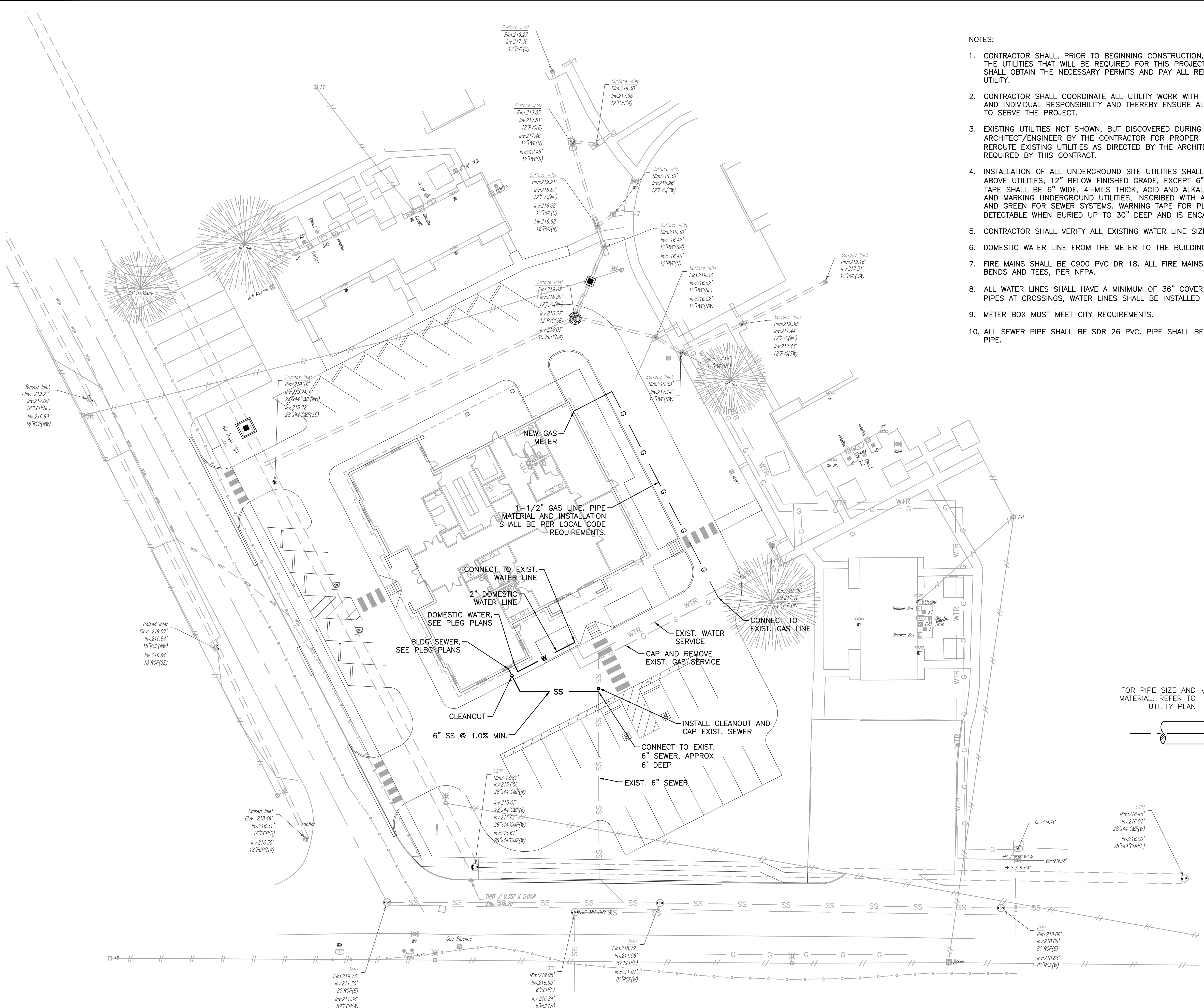
Architecture & Associates, LLC

3567 Commander Dr., Ste 105  
 Arlington, Tennessee 38002  
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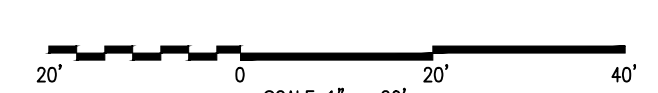
WATER AND SEWER PLAN  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUWANN, ARKANSAS

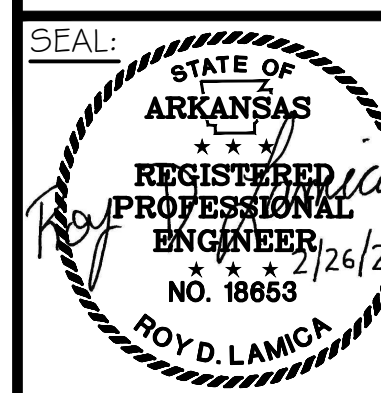
NOTES:

- CONTRACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, CONTACT THE PROPER AUTHORITIES HAVING JURISDICTION OVER THE UTILITIES THAT WILL BE REQUIRED FOR THIS PROJECT. FOR UNDERGROUND UTILITY LOCATIONS CALL 811. CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND PAY ALL RELATED FEES AND COSTS NECESSARY FOR CONNECTION TO EACH UTILITY.
- CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH THE VARIOUS TRADES TO MINIMIZE CONFLICTS IN JURISDICTION AND INDIVIDUAL RESPONSIBILITY AND THEREBY ENSURE ALL NECESSARY UTILITIES ARE PROVIDED IN AN ORDERLY MANNER TO SERVE THE PROJECT.
- EXISTING UTILITIES NOT SHOWN, BUT DISCOVERED DURING EXCAVATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BY THE CONTRACTOR FOR PROPER COORDINATION. CONTRACTOR SHALL REMOVE, REWORK, AND/OR REROUTE EXISTING UTILITIES AS DIRECTED BY THE ARCHITECT/ENGINEER AS REQUIRED TO ACCOMPLISH THE WORK REQUIRED BY THIS CONTRACT.
- INSTALLATION OF ALL UNDERGROUND SITE UTILITIES SHALL INCLUDE WARNING TAPE. TAPE SHALL BE INSTALLED DIRECTLY ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS AND SLABS. WARNING TAPE SHALL BE 6" WIDE, 4-MILS THICK, ACID AND ALKALI-RESISTANT POLYETHYLENE FILM MANUFACTURED FOR IDENTIFYING AND MARKING UNDERGROUND UTILITIES, INSCRIBED WITH A DESCRIPTION OF THE UTILITY AND COLORED BLUE FOR WATER AND GREEN FOR SEWER SYSTEMS. WARNING TAPE FOR PLASTIC UTILITY PIPING SHALL INCLUDE A METALLIC CORE THAT IS DETECTABLE WHEN BURIED UP TO 30" DEEP AND IS ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING WATER LINE SIZES PRIOR TO UTILITY CONSTRUCTION.
- DOMESTIC WATER LINE FROM THE METER TO THE BUILDING SHALL BE SCH 80 PVC.
- FIRE MAINS SHALL BE C900 PVC DR 18. ALL FIRE MAINS SHALL HAVE MEGALUGS AND CONCRETE THRUST BLOCKS AT ALL BENDS AND TEES, PER NFPA.
- ALL WATER LINES SHALL HAVE A MINIMUM OF 36" COVER. IF THE REQUIRED COVER IS NOT AVAILABLE ABOVE DRAINAGE PIPES AT CROSSINGS, WATER LINES SHALL BE INSTALLED BELOW DRAINAGE PIPES WITH A MINIMUM OF 12" SEPARATION.
- METER BOX MUST MEET CITY REQUIREMENTS.
- ALL SEWER PIPE SHALL BE SDR 26 PVC. PIPE SHALL BE INSTALLED WITH 12" GRANULAR BEDDING UP TO THE TOP OF PIPE.



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



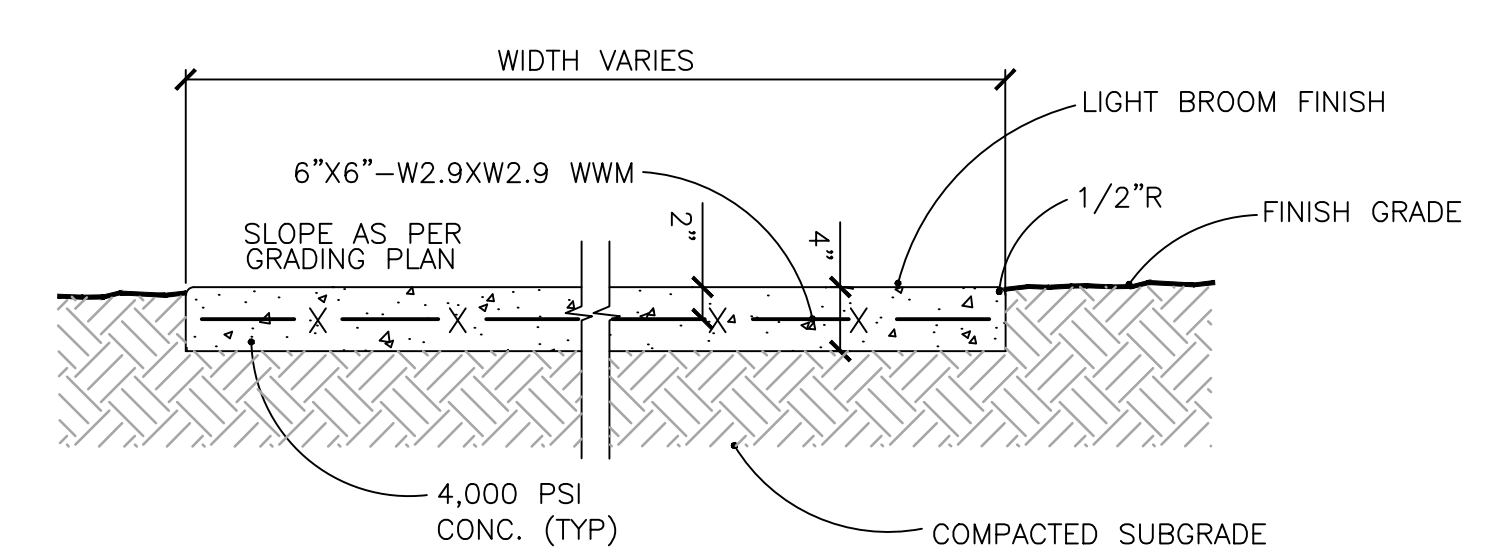


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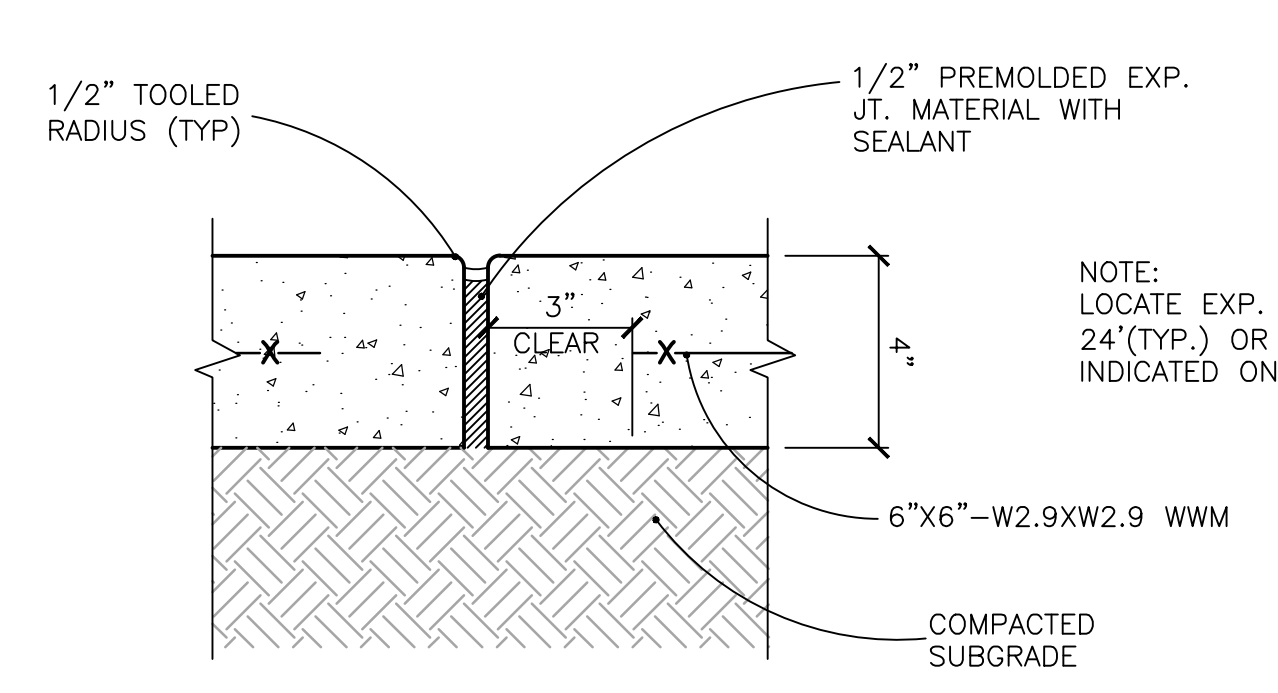
5567 Commander Dr., Ste 105  
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 Fax: 901-867-3331  
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EROSION CONTROL PLAN - PHASE 2  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS



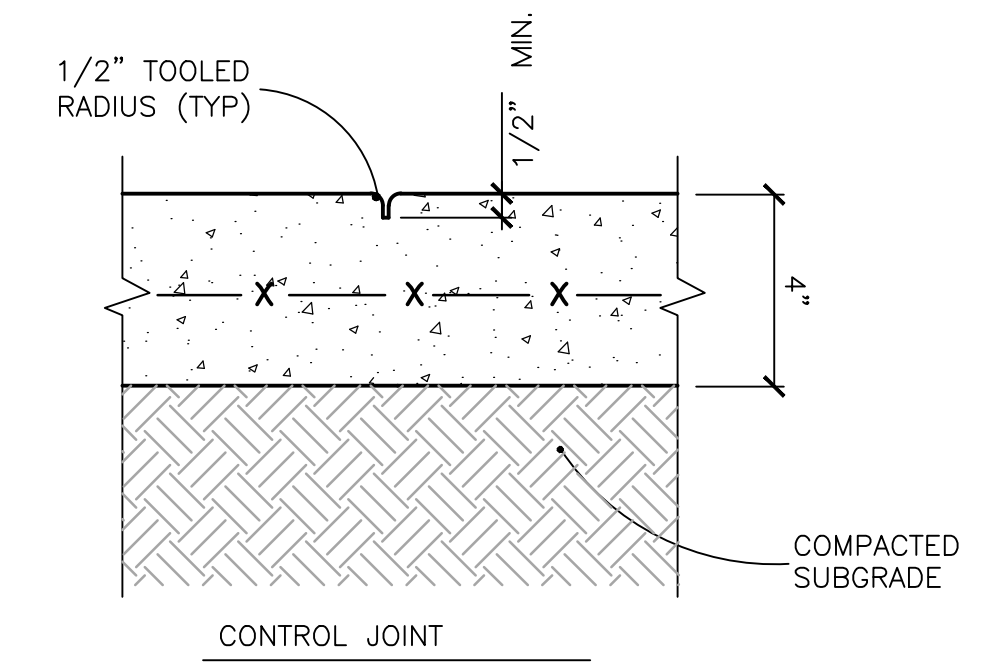
NOTE:  
 \*SEE DETAIL 2 THIS SHEET FOR  
 EXPANSION & CONTROL JOINT DETAILS.

1 CONCRETE SIDEWALK  
 (C5.01) NTS

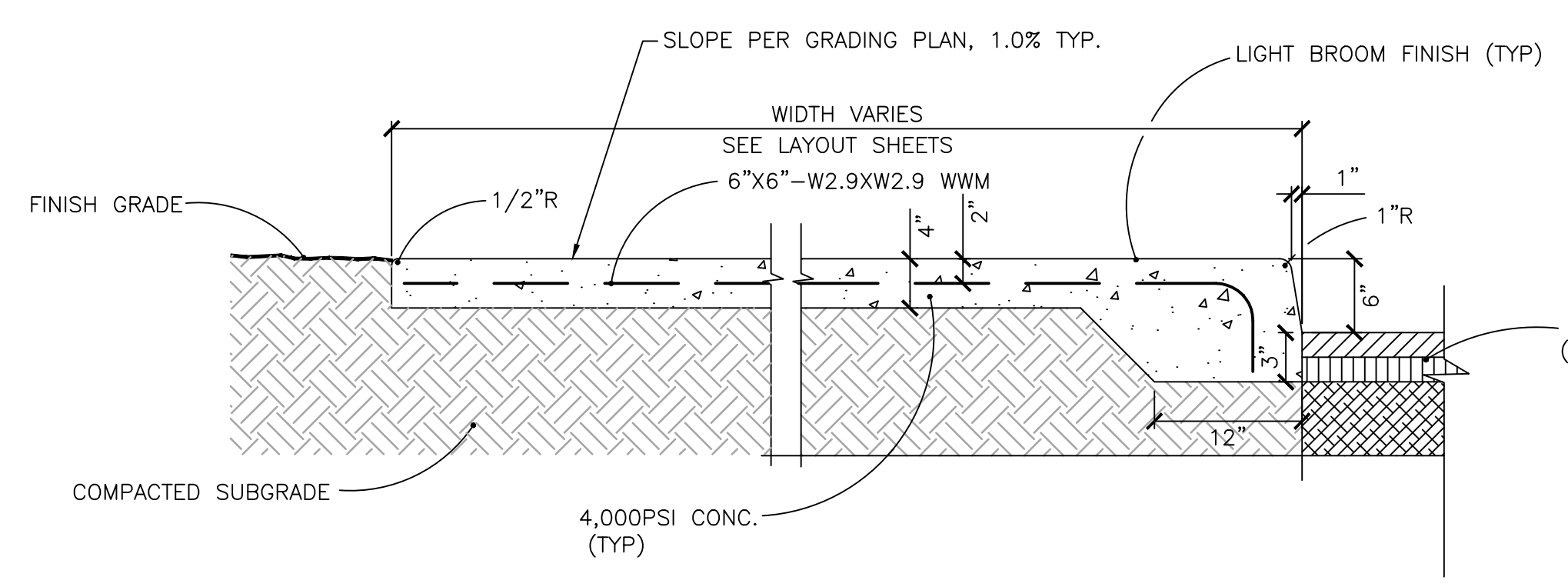


NOTE:  
 LOCATE EXP. JOINTS @  
 24' (TYP.) OR AS  
 INDICATED ON PLAN

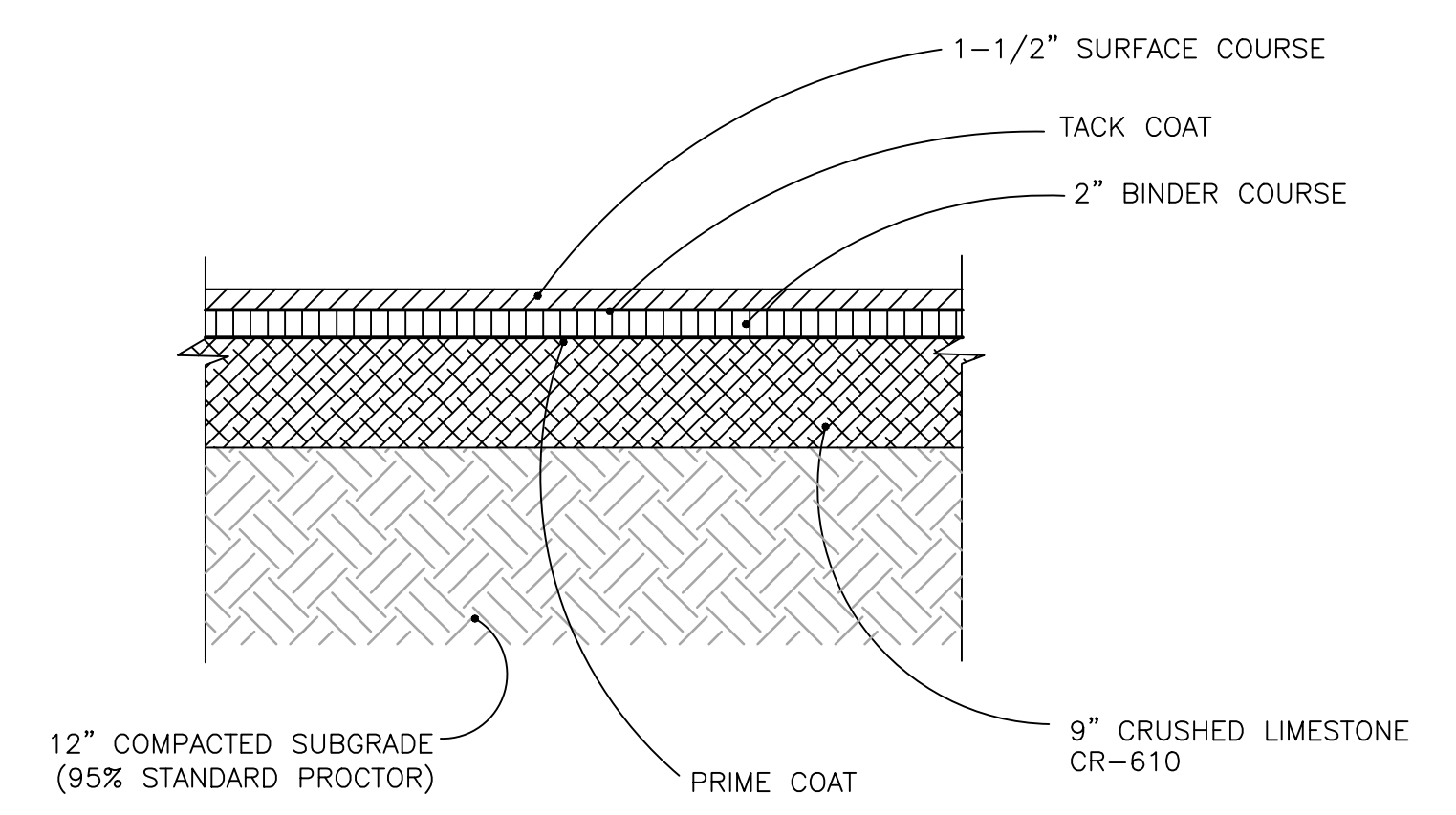
2 SIDEWALK JOINT DETAIL  
 (C5.01) NTS



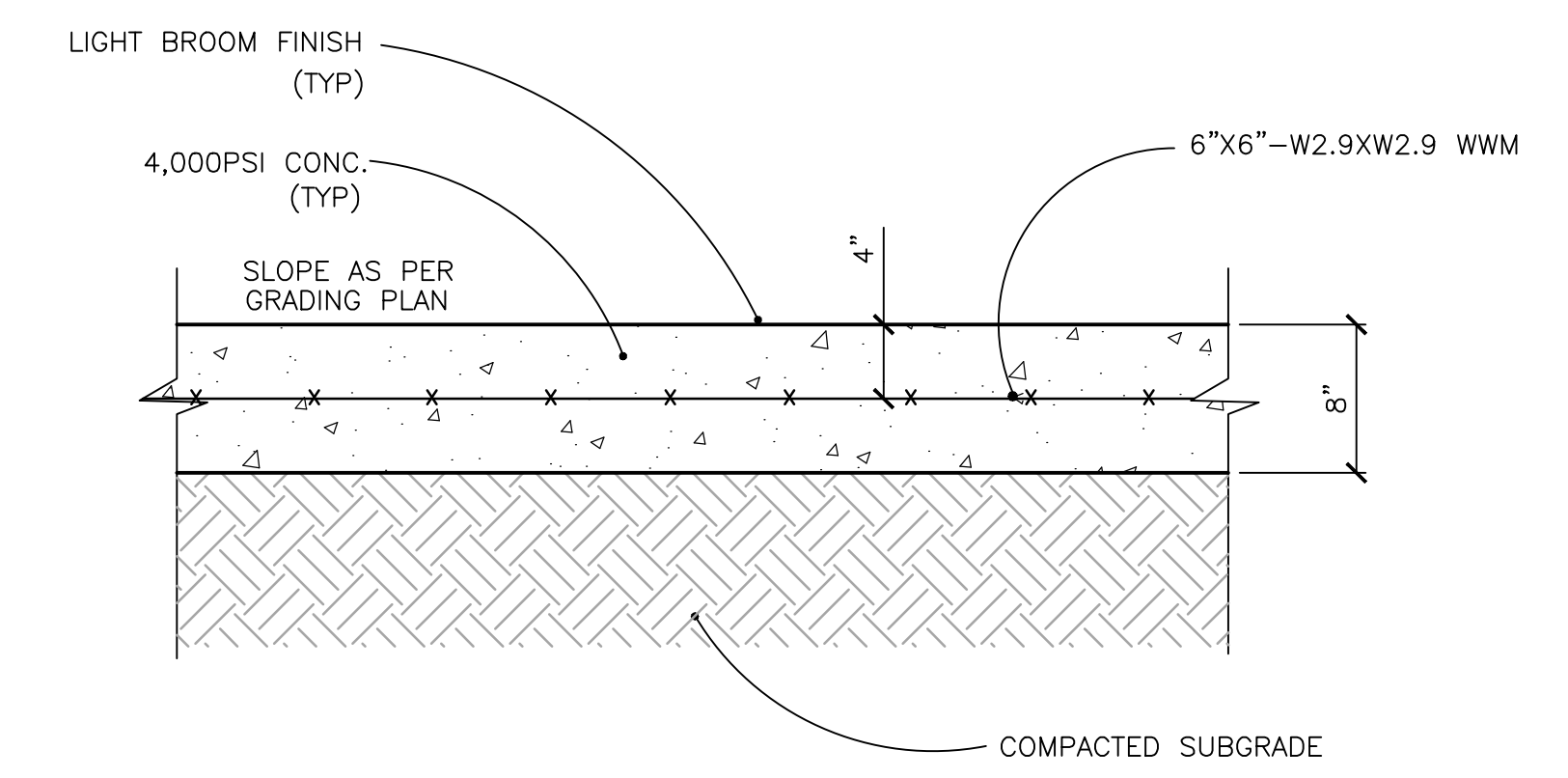
3 TYP. VERTICAL CURB  
 (C5.01) NTS



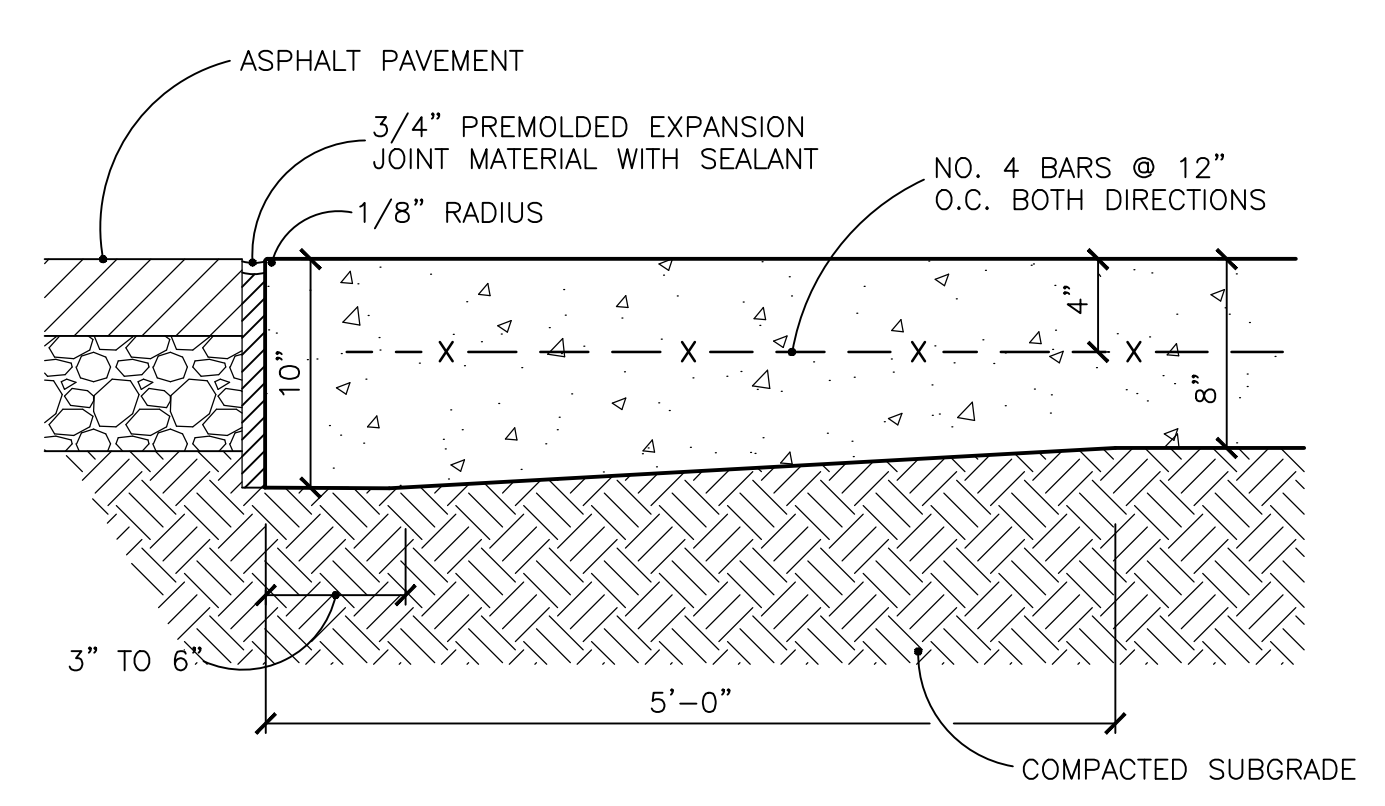
4 TYP. INTEGRAL CURB & WALK  
 (C5.01) NTS



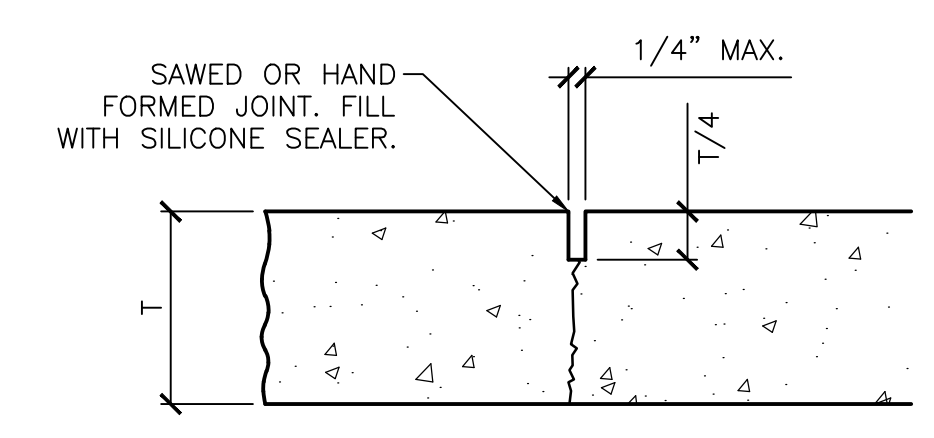
5 ASPHALT PAVEMENT  
 (C5.01) NTS



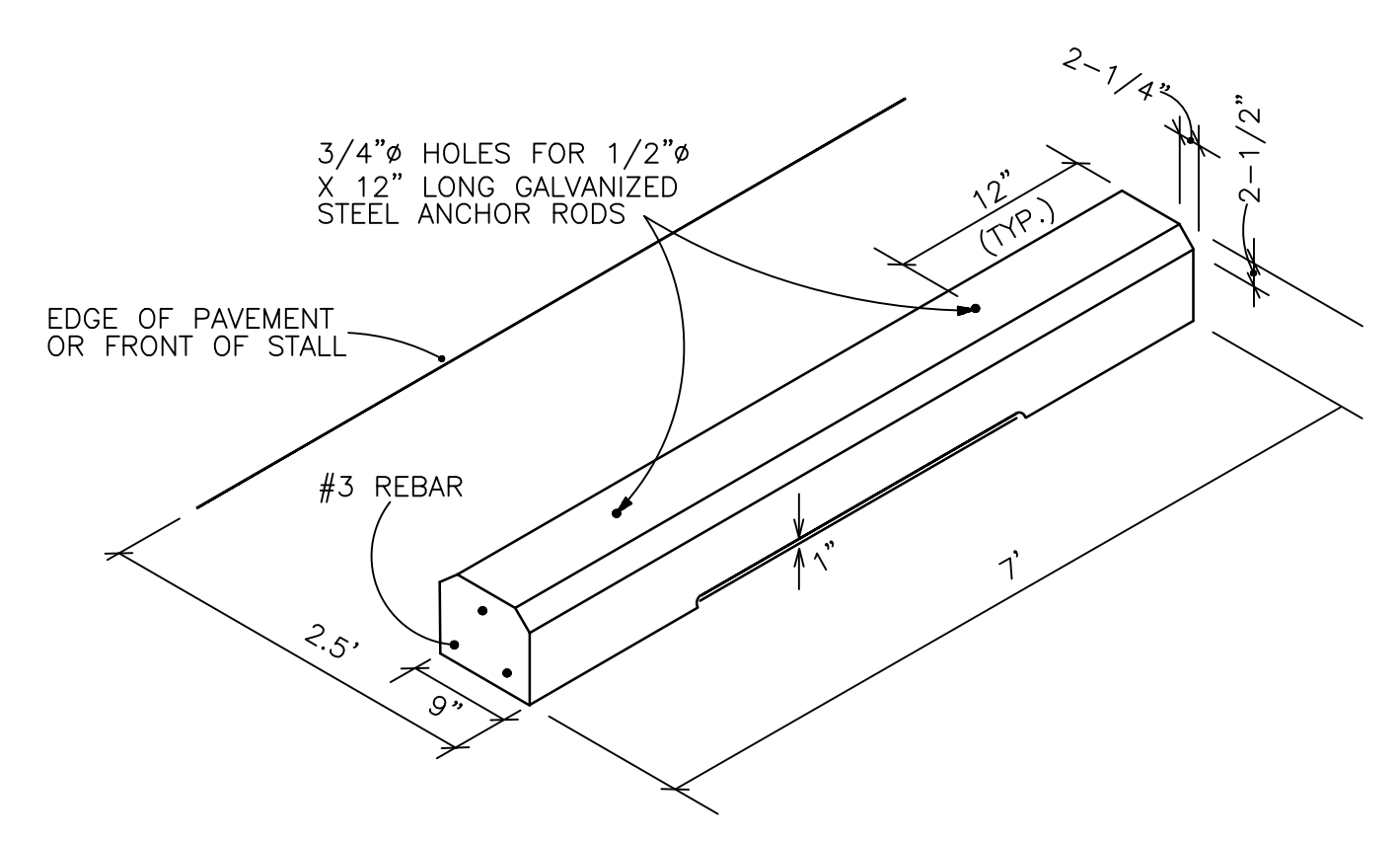
6 CONCRETE PAVEMENT  
 (C5.01) NTS



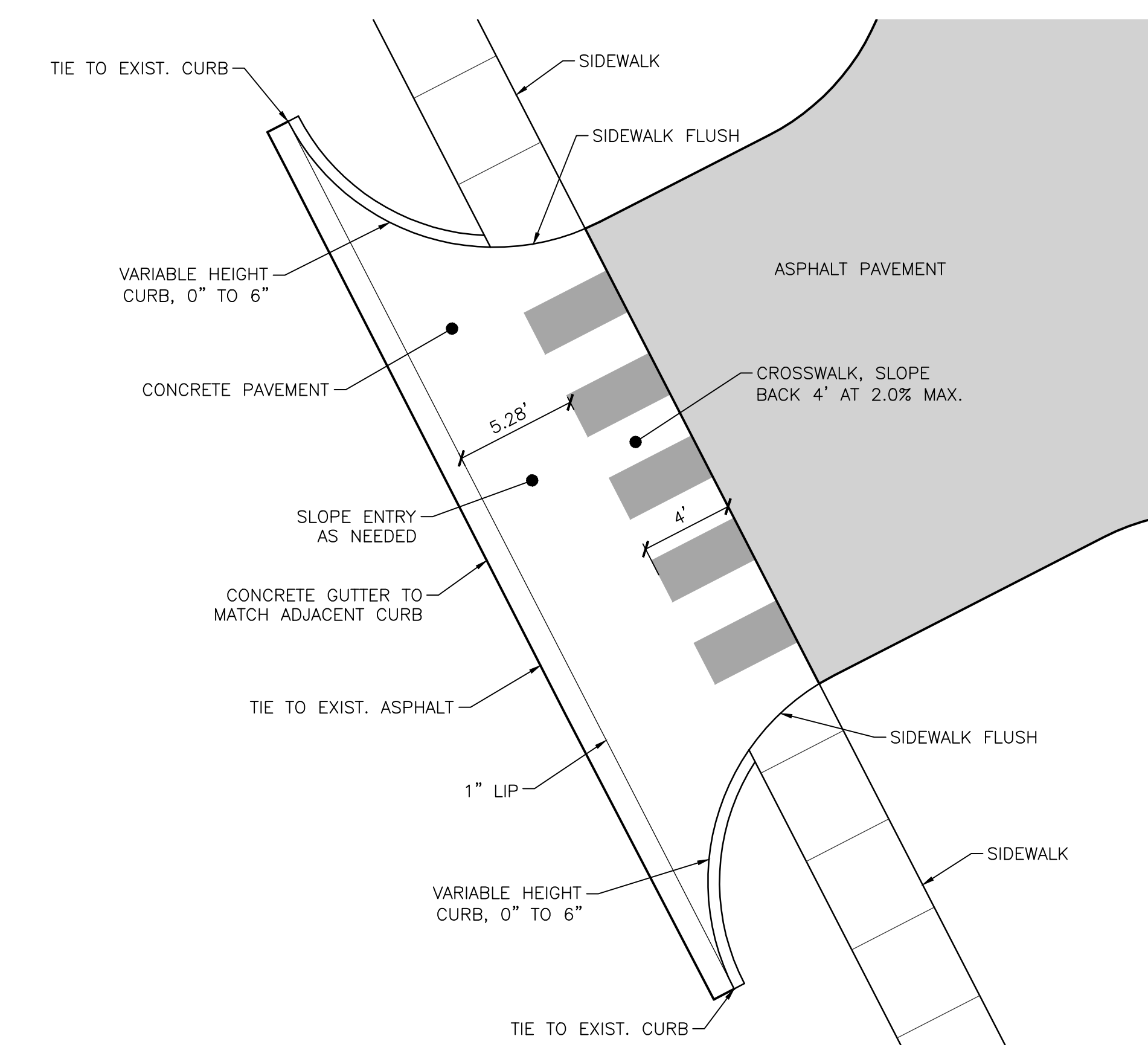
7 TYP. THICKENED EDGE  
 (C5.01) NTS



8 CONTROL JOINT  
 (C5.01) NTS



9 TYP. WHEEL STOP  
 (C5.01) NTS



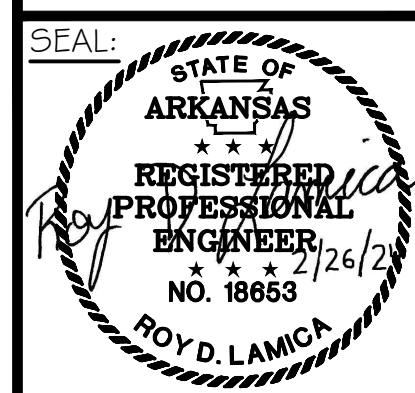
10 TYP. DRIVEWAY APRON  
 (C5.01) NTS



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER:  
**C5.01**  
 PROJECT:  
 WAA: 1314-33

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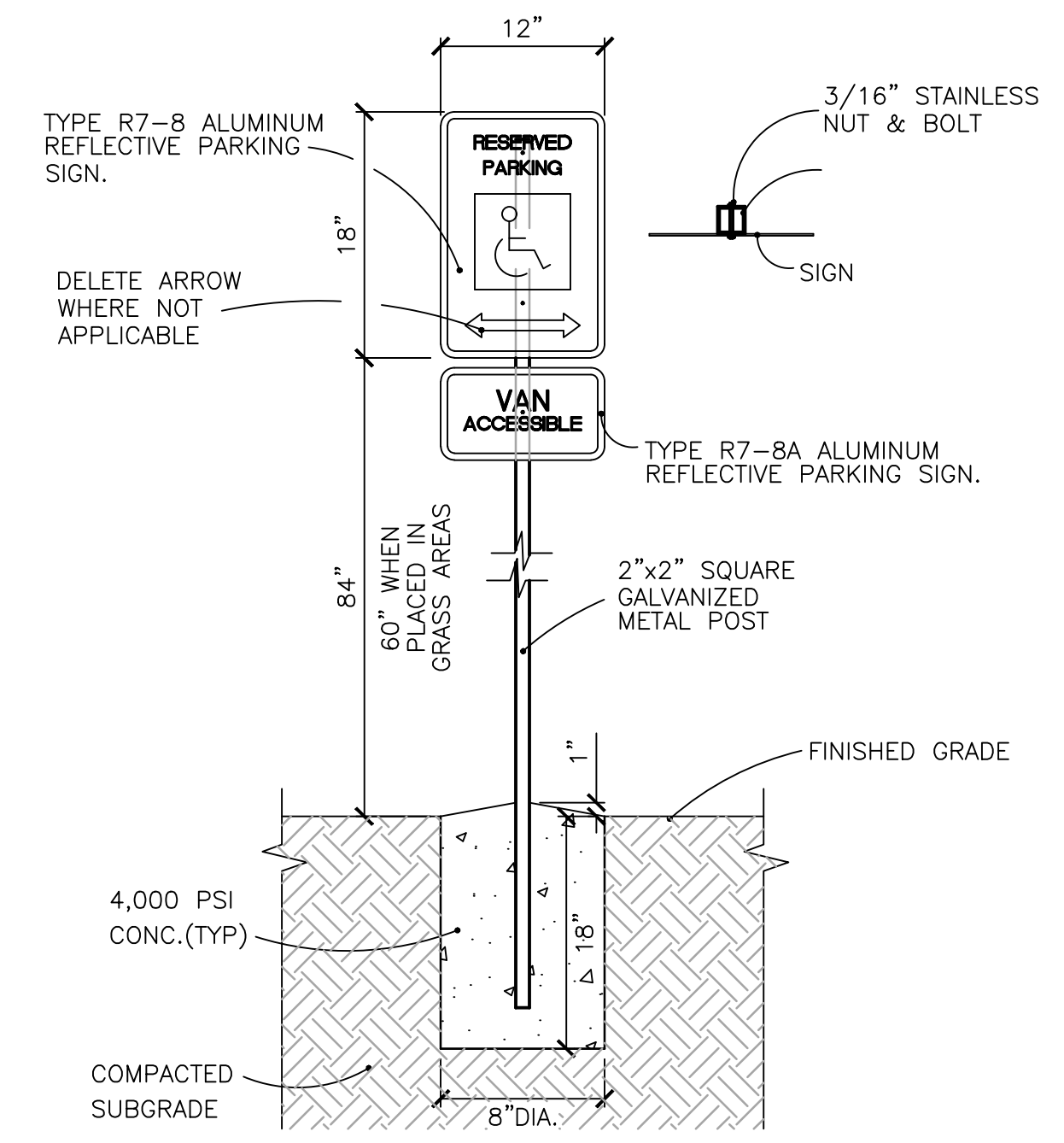


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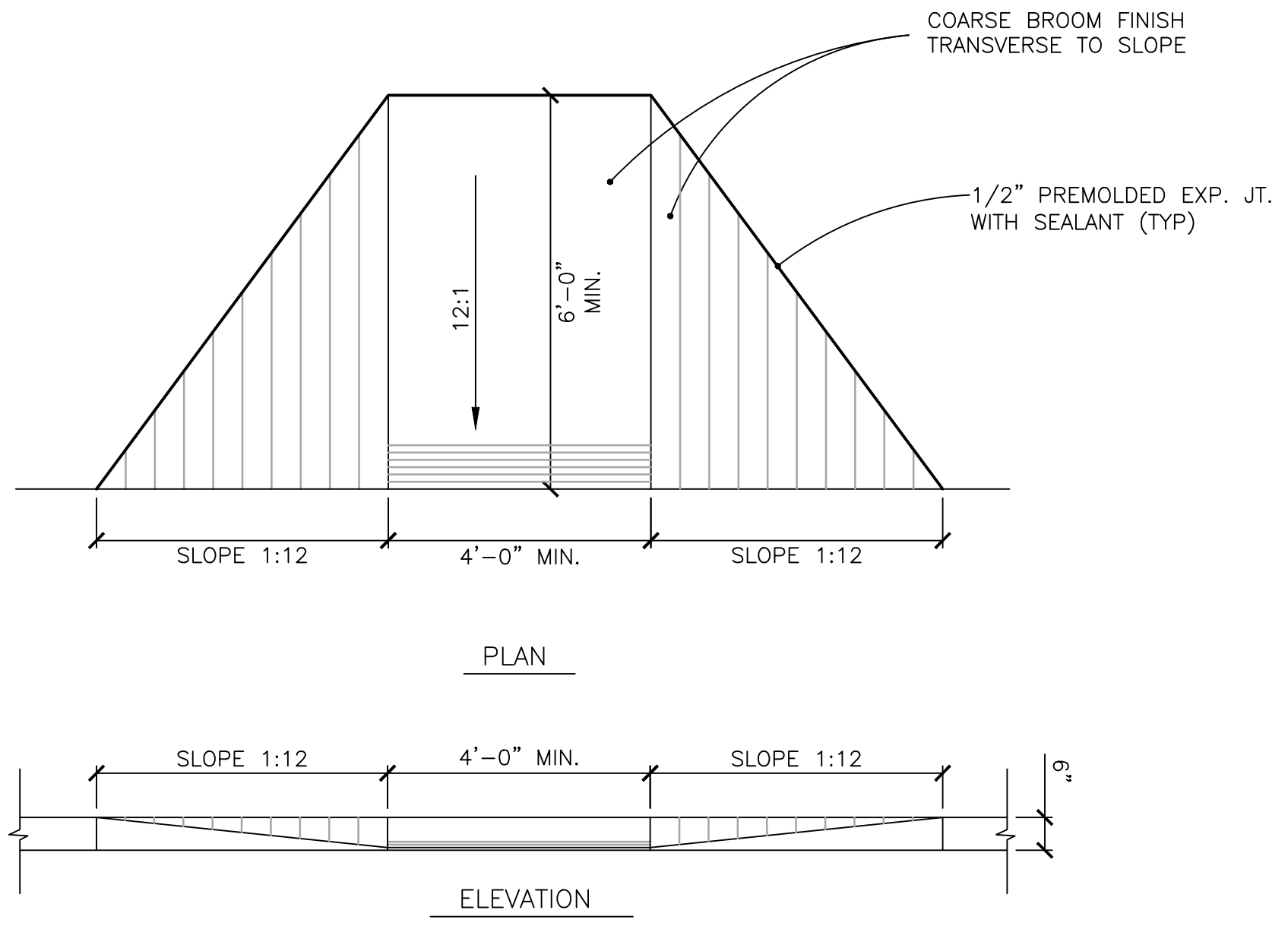
5367 Commander Dr., Ste 105  
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 Fax: 901-867-3331  
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EROSION CONTROL PLAN - PHASE 2  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS



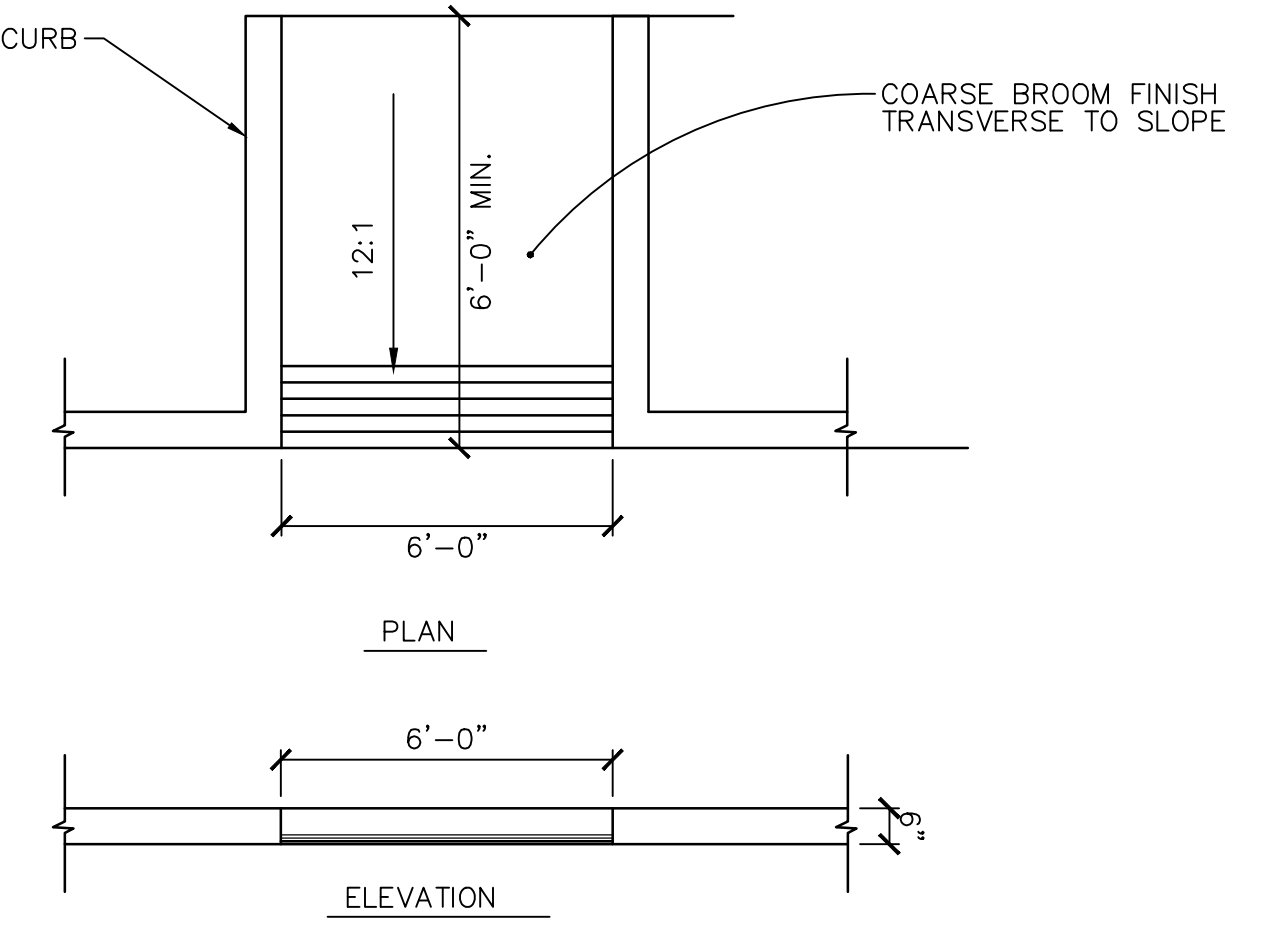
1 ADA PARKING SIGN  
 C5.02 NTS

- NOTES:
1. SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.
  2. A MINIMUM OF SIX SCORED LINES SPACED AT 2" CENTERS SHALL BE PLACED TRANSVERSE ON THE RAMP BEGINNING AT THE GUTTER. SCORED LINES SHALL BE PLACED @ 6" CENTERS PARALLEL TO THE RAMP ON THE SIDE SLOPES.
  3. THE LENGTH OF THE SIDE RAMP SHALL BE DETERMINED BY THE 1:12 MAX. SLOPE AND THE HEIGHT OF THE CURB. SIDEWALK BEHIND THE RAMP SHALL HAVE A CROSS SLOPE OF 1:20 (2.0%) MAX.
  4. RAMP SHALL HAVE UNIFORM GRADE, FREE OF SAGS AND SHORT GRADE CHANGES.

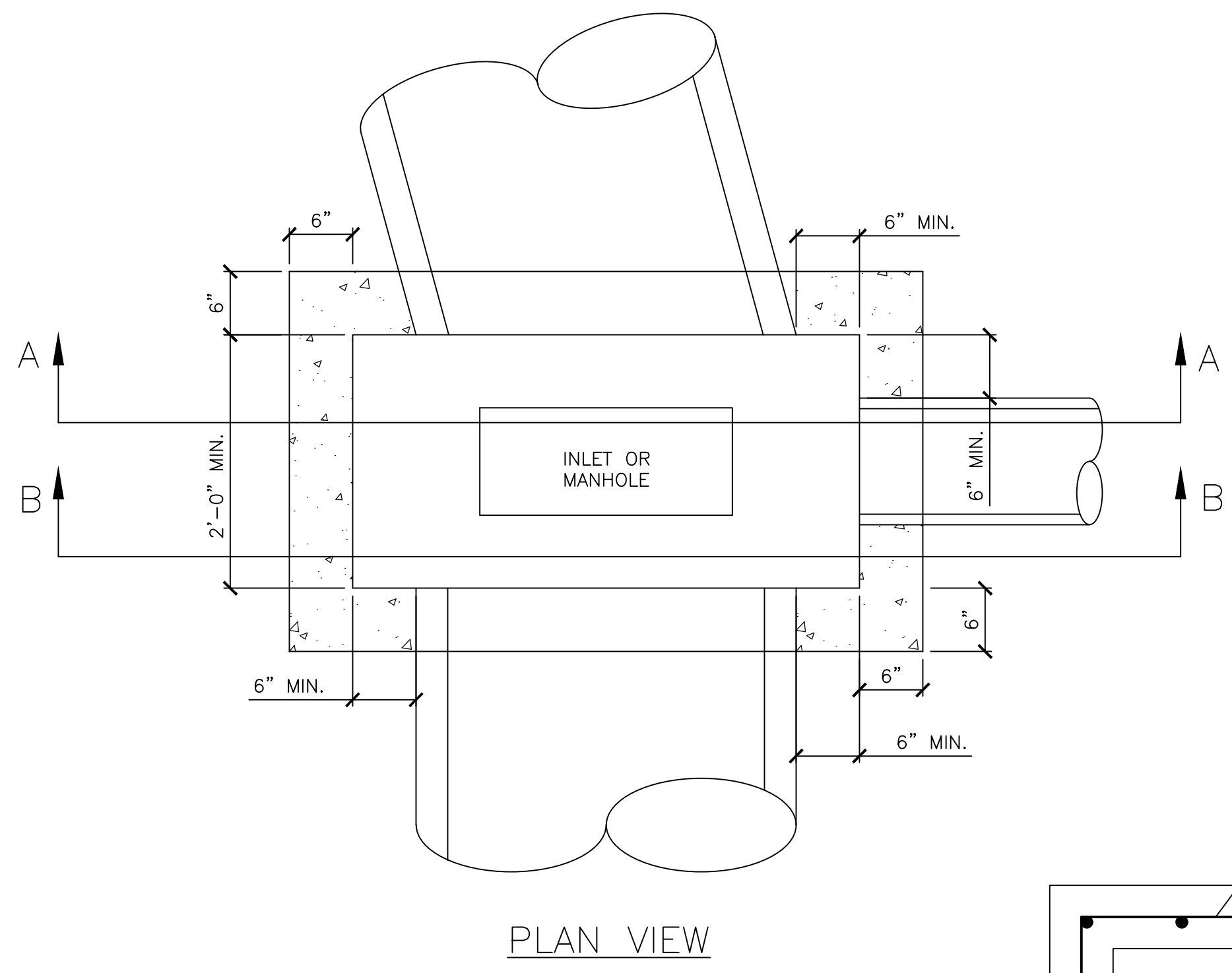


2 ADA RAMP (TYPE 1)  
 C5.02 NTS

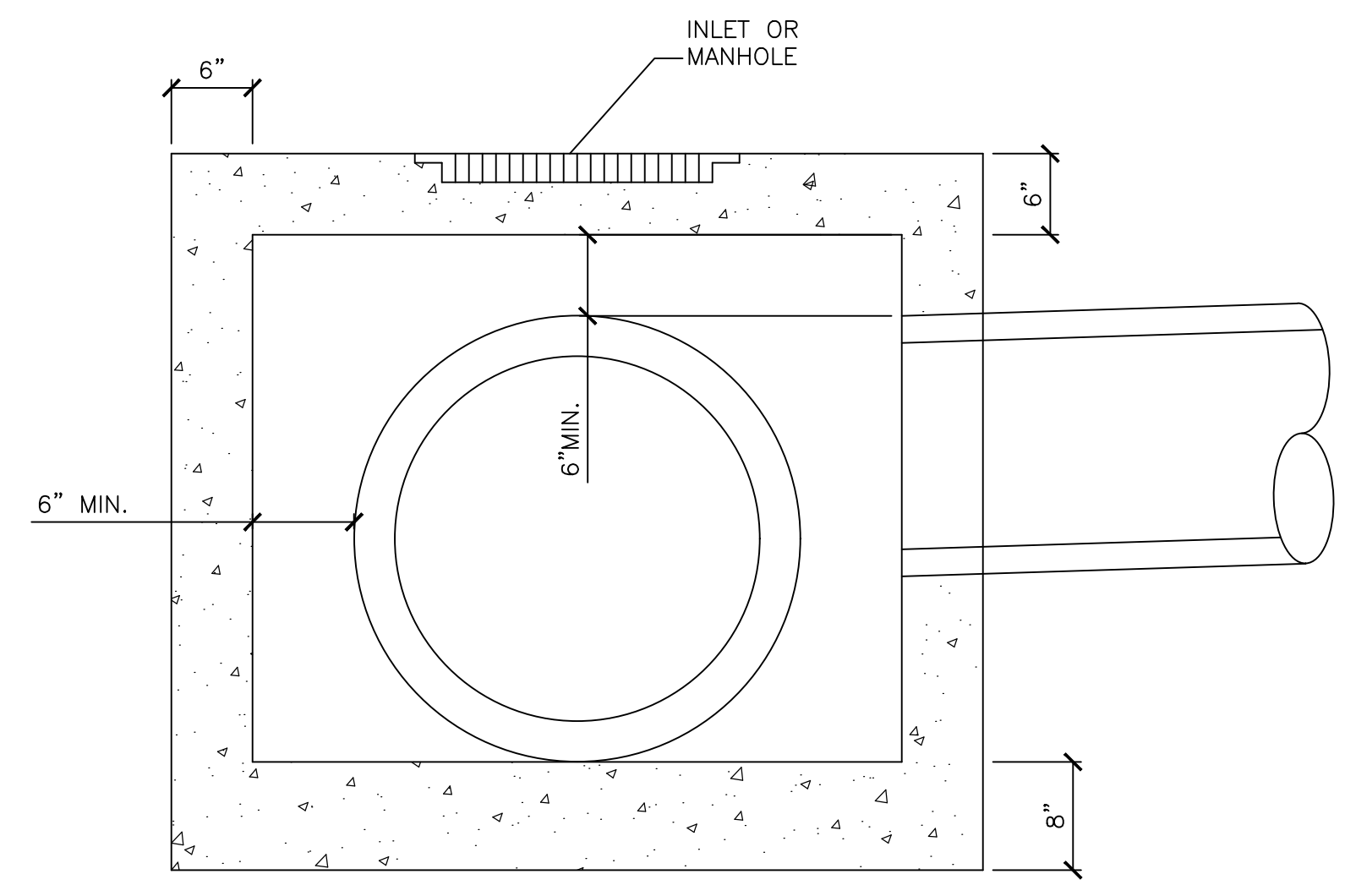
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  2. A MINIMUM OF SIX SCORED LINES SPACED AT 2" CENTERS SHALL BE PLACED TRANSVERSE ON THE RAMP BEGINNING AT THE GUTTER. SCORED LINES SHALL BE PLACED @ 6" CENTERS PARALLEL TO THE RAMP ON THE SIDE SLOPES.
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  4. RAMP SHALL HAVE UNIFORM GRADE, FREE OF SAGS AND SHORT GRADE CHANGES.



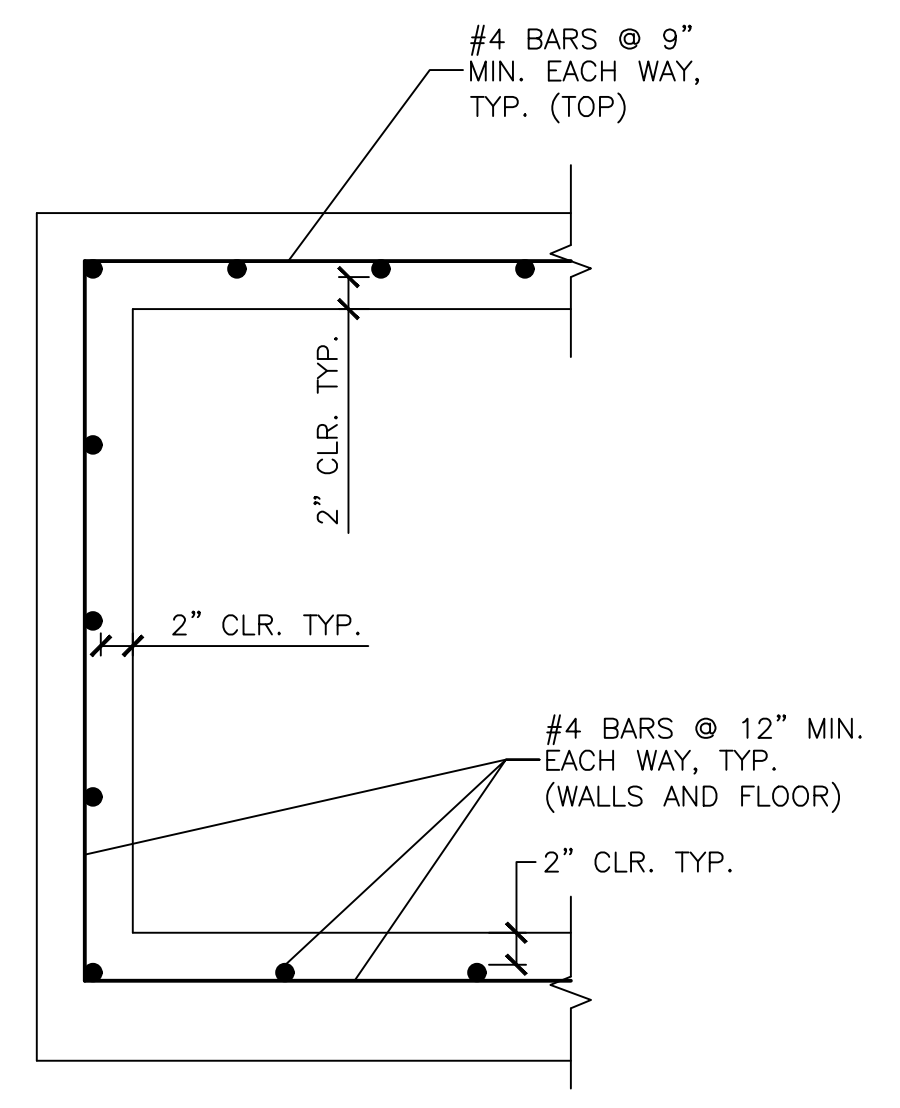
3 ADA RAMP (TYPE 2)  
 C5.02 NTS



PLAN VIEW



SECTION A-A



SECTION B-B

4 NEW DRAINAGE STRUCTURE ON ARCH PIPE  
 C5.02 NTS

INLET SIZE (FT.)	WALL THICK (IN.)	WT./VERT. THICK (LBS.)	BOTTOM THICK (IN.)	BASE SLAB (LBS.)
2'X2'	6"	785	6"	690

NOTE:  
 -MADE IN ACCORDANCE WITH ASTM C913  
 -STEEL REINFORCEMENT: ASTM A615 GRADE 60 OR EQ. ASTM A1064 WWR  
 -JOINTS SEALANT: ASTM C990  
 -FRAME AND GRATE/COVER AS REQUIRED.

5 2' X 2' DRAINAGE INLET  
 C5.02 NTS



REGION, STATE	N MS / W TN	
DATE	2018	SECT. PAGE 11.6.1



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ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER:  
**C5.02**  
 PROJECT:  
 WAA: 1314-33

**BUILDING CODE**  
 CODE REFERENCE.....2021 INTERNATIONAL BUILDING CODE

**DEAD LOAD DATA:**  
 INTERIOR PARTITIONS, ETC..... 10 psf  
 ROOFING AND INSULATION..... 3 psf  
 DECKING..... 2 psf  
 ROOF TRUSSES..... 6 psf  
 CEILING..... 1 psf  
 HV & A/C..... 2 psf

**LIVE LOAD DATA:**  
 ROOF..... 25 psf

**HANDRAILS & GUARDRAILS:**  
**HANDRAIL LOADS**—250 lbs CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 50 psf APPLIED IN ANY DIRECTION (WHICHEVER LOADING CONDITION PRODUCES THE HIGHEST STRESS WILL BE USED)

**SEISMIC DESIGN DATA:**  
 IMPORTANCE FACTOR,  $I_e = 1.0$   
 SPECTRAL RESPONSE,  $S_s = 2.08$ ,  $S_1 = 0.733$   
 SITE CLASS = D  
 SPECTRAL RESPONSE CO-EFFICIENTS,  $S_{ps} = 1.38$ ,  $S_{p1} = 0.831$   
 SEISMIC DESIGN CATEGORY = D  
 SEISMIC DESIGN CATEGORY = D  
 LIGHT FRAMED SHEAR WALLS w/ WOOD PANELS  
 RESPONSE COEFFICIENT,  $C_s = 0.21$   
 EQUIVALENT LATERAL FORCE PROCEDURE  
**BASE SHEAR:** 20 K

**MAIN BUILDING WIND LOAD DESIGN DATA: (ASCE 7-16)**  
 WIND RISK CATEGORY ..... III  
 BASIC WIND SPEED ..... 115 MPH  
 INTERNAL PRESSURE COEFFICIENT  $C_{pi}$  ..... ±0.18  
 WIND EXPOSURE CATEGORY ..... C  
 WIND REFERENCE PRESSURE ..... 18 psf  
 (AT TOP OF BUILDING)

**TORNADO SHELTER WIND LOAD DESIGN DATA: (ASCE 7-16)**  
 WIND RISK CATEGORY ..... III  
 BASIC WIND SPEED ..... 250 MPH  
 INTERNAL PRESSURE COEFFICIENT  $C_{pi}$  ..... ±0.18  
 WIND EXPOSURE CATEGORY ..... C  
 WIND DIRECTIONALITY FACTOR  $K_d$  ..... 1  
 TOPOGRAPHIC FACTOR  $K_{zt}$  ..... 1  
 WIND REFERENCE PRESSURE ..... 150 psf (WW+LW)

**WOOD NOTES:**  
 1. STRESS GRADE SAWED LUMBER SHALL CONFORM TO SPECIFICATIONS FOR KILN DRIED LUMBER.  
 HEADERS: NO. 2 SOUTHERN PINE  
 STUDS: NO. 2 SOUTHERN PINE  
 2. USE JOIST HANGERS AND FRAMING ANCHORS, 18 ga. MINIMUM, GALVANIZED, SIZED FOR FULL LOAD CAPACITY OF SUPPORTED MEMBERS. JOIST HANGERS UTILIZED OUTDOORS TO BE EQUAL TO SIMPSON 2-MAX SPECIFICATIONS.  
 3. PROVIDE DOUBLE STUDS (MINIMUM) EACH SIDE OF ALL WALL OPENINGS.  
 4. PROVIDE SOLID BLOCKING IN WOOD FLOOR CONSTRUCTION UNDER POSTS, COLUMNS, AND MULTIPLE STUDS.  
 5. PROVIDE BRIDGING IN FLOOR AND ROOF CONSTRUCTION PER APPLICABLE CODES. MINIMUM= 1 ROW OF BRIDGING AT MID SPAN.  
 6. PROVIDE CONTINUOUS HORIZONTAL BLOCKING IN ALL STUD WALLS PER APPLICABLE CODES. MINIMUM= 1 ROW OF BLOCKING AT MID HEIGHT.  
 7. CONSTRUCT WOOD CONNECTIONS PER RECOMMENDATIONS OF THE NATIONAL FOREST PRODUCTS ASSOCIATION.  
 8. USE THE LATEST EDITION OF THE IBC FOR MINIMUM ACCEPTABLE NAILING (FASTENER SCHEDULE).  
 9. WHERE PLYWOOD FILLERS ARE USED WITH LINTELS OR BEAMS, THEY SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE BEAM OR LINTEL, AND THEY SHALL BE GLUED AND NAILLETED 2x's WITH 2 ROWS OF 10d NAILS AT 12" O.C. MINIMUM.  
 10. MICROLAM AND PARALLEL LUMBER SHALL CONFORM TO MACMILLAN SPECIFICATIONS, OR EQUAL.  
 11. **ROOF AND FLOOR WOOD TRUSSES SHALL BE DESIGNED BY A REGISTERED ENGINEER FOR THE MAXIMUM LOAD APPLICABLE PER LOCAL AND NATIONAL CODES. L/360 SHALL BE THE MAXIMUM TOTAL LOAD DEFLECTION AT MID-SPAN AND SHALL NOT EXCEED ONE INCH TOTAL DEFLECTION. SUBMIT CALCULATIONS AND SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATING.**  
 12. FINAL TRUSS SIZE AND SPACING TO BE DETERMINED BY THE TRUSS MANUFACTURER.  
 13. VERSALAM BEAMS AND COLUMNS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:  $F_b=2,900$  PSI MINIMUM BENDING STRESS;  $F_c=2,000,000$  PSI;  $F_r=290$  PSI;  $F_e$ : PARALLEL = 3,000 PSI  
 14. ALL EXTERIOR WOOD FRAMING TO BE EXTERIOR GRADE LUMBER, TYP.  
 15. NON-LOAD BEARING WALLS TO BE 2x4's @ 16" o.c. TYPICAL, UNLESS NOTED OTHERWISE.

**CONCRETE & MASONRY:**  
 1. CONCRETE STRENGTH: U.N.O. TO BE 4000 PSI AT 28 DAYS  
 STORM SHELTER WALLS & ELEVATED SLAB - 5000 PSI  
 (SEE NOTE #3 CONCERNING TESTING OF CONCRETE)  
 2. CONCRETE EXPOSED TO WEATHER TO BE AIR - ENTRAINED (6% MAX. - 3% MIN.)  
 3. CONCRETE AND REINFORCING STEEL TO BE AS PER THE LATEST ACI 318. TESTING OF CONCRETE TO BE IN ACCORDANCE w/ ACI 301 BY AN INDEPENDENT TESTING AGENCY AT OWNERS EXPENSE.  
 4. ALL SLAB ON GRADE TO BE 4" CONCRETE w/ 6x6 W2.1/W2.1 WWF, UNLESS NOTED OTHERWISE. SLAB-ON-GRADE TO BE SUPPORTED BY SHALLOW FOUNDATION SYSTEM PER THE GEOTECHNICAL REPORT. SEE ARCHITECTURAL DRAWINGS FOR ANY DEPRESSED AREAS, VAPOR BARRIERS, ETC.  
 5. THE MINIMUM CONCRETE COVER SHALL BE IN ACCORDANCE WITH A.C.I. 318.  
 6. ALL HOLLOW CONCRETE MASONRY UNITS TO MEET A.S.T.M. SPECIFICATIONS C90, GRADE N, TYPE 1, WITH MINIMUM ULTIMATE COMPRESSIVE PRISM STRENGTH ( $f'_m$ ) OF 1500 PSI FOR ALL WALLS U.N.O.  
 7. ALL MORTAR SHALL MEET A.S.T.M. SPECIFICATIONS FOR TYPE "S" MORTAR EXCEPT AS SHOWN OTHERWISE WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 P.S.I. ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.  
 8. HORIZONTAL JOINT REINFORCING SHALL BE XTRA HEAVY AT 8" C.C. (3/16" LONGT. WIRES) EXCEPT AS SHOWN OTHERWISE.  
 9. ALL MASONRY CORNERS SHALL HAVE 3 VOIDS REINFORCED w/ (1) #5 EACH VOID AND GROUTED.  
 10. ALL CELLS WHERE REINFORCING IS SPECIFIED SHALL BE FILLED w/ CONCRETE GROUT.  
 11. REINFORCING SHALL BE A-615 GRADE 60 EXCEPT #3 BARS SHALL BE GRADE 40 IN ACCORDANCE WITH LATEST A.S.T.M. SPECIFICATIONS.  
 12. REINFORCING IN ALL CONCRETE FOOTING AND WALLS SHALL BE CONTINUOUS AROUND CORNERS.  
 13. LAP ALL STEEL 36 BAR DIAMETER OR 18" MINIMUM AT SPLICES AND CORNERS.  
 14. GROUT SHALL CONFORM TO A.S.T.M. 476, 3000 PSI STRENGTH.  
 15. ALL BLOCK CELLS BELOW GRADE SHALL BE FILLED SOLID WITH CONCRETE OR GROUT.  
 16. CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY SHALL CONFORM TO SPECIFICATIONS BY THE NATIONAL CONCRETE MASONRY ASSOCIATION AND A.C.I. 531 (LATEST EDITION)  
 17. PROVIDE 2 #5 BARS EXTRA E.S. OF ALL OPENINGS IN CONCRETE SLABS U.N.O.  
 18. PROVIDE U-BLOCK LINTEL w/ 2 #5 BOT. OVER ALL OPENINGS IN MASONRY WALLS U.N.O. BEAR LINTELS 16" MIN E.E.  
 19. PROVIDE 1 #5 EXTRA VERTICAL BAR EACH SIDE OF OPENINGS IN MASONRY WALLS U.N.O.

**SHOP DRAWING SUBMITTALS:**  
 THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS FOR CONFORMANCE / COMPLETENESS WITH THE CONTRACT DOCUMENTS, AND ANSWER ALL CONTRACTOR RELATED QUESTIONS. GENERAL CONTRACTOR SHALL ADD REVIEW COMMENTS, STAMP AND INITIAL ALL SHEETS PRIOR TO SUBMITTING SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR REVIEW. NON-COMPLIANCE WITH THIS REQUIREMENT WILL RESULT IN THE AUTOMATIC REJECTION OF SUBMITTAL. THE GENERAL CONTRACTOR SHALL SUBMIT A MINIMUM OF THE FOLLOWING SHOP DRAWINGS FOR ARCHITECTS / ENGINEERING'S REVIEW, PRIOR TO INSTALLATION. (SHOP DRAWINGS ARE TO BE PREPARED ACCORDING TO INDUSTRY STANDARDS)

1. REINFORCING STEEL
2. CONCRETE MIX DESIGNS
3. LUMBER SPECIFICATION INCLUDING SPECIES AND STRUCTURAL PROPERTIES
4. STRUCTURAL STEEL
5. WOOD ROOF TRUSSES (NOTE #1)

**NOTE #1:**  
 SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEERING REGISTERED IN THE STATE OF THE PROJECT.

MANUFACTURE'S LITERATURE: SUBMIT ONE COPY (OR PER PROJECT SPECIFICATIONS) OF MANUFACTURER'S PRODUCT DATA LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION OF THIS PROJECT.

**GENERAL:**

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR THE DOWNS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION COMPLIES WITH OSHA REGULATIONS INCLUDING DESIGN OF CONNECTIONS OF MEMBERS THAT WILL NOT BE FULLY COMPLETED AT THE TIME OF INSTALLATION.
2. CONTRACTOR PROPOSED CHANGES OR SUBSTITUTIONS - PROPOSED CHANGES OR SUBSTITUTIONS TO THE STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL. SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR SUBSTITUTIONS WITH SUPPORTING, SEALED CALCULATIONS (WHERE APPLICABLE). THE REVIEW OF CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR RE-DRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES FOR EOR. EOR IS NOT RESPONSIBLE FOR DETERMINING THE COST EFFECTIVENESS OF PROPOSED CHANGES.
3. CONTRACTOR REQUIRED REMEDIAL WORK - DESIGN OF REMEDIAL WORK RELATED TO CONSTRUCTION ERRORS, INSTALLATIONS NOT IN CONFORMANCE WITH CONTRACT DOCUMENTS, OR IN ANY WAY BROUGHT ABOUT BY ACTIVITIES OF THE CONTRACTOR, IS NOT WITHIN THE SCOPE OF CA SERVICES PROVIDED BY ENGINEER OF RECORD. THE CONTRACTOR SHALL CARRY IN HIS BASE BID THE COSTS FOR ENGINEERING WORK ASSOCIATED WITH THE ABOVE
4. SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, BARS, PLATES AND OTHER ITEMS ATTACHED TO STRUCTURAL MEMBERS.
5. PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN ALIGNMENT AND SECURITY OF STRUCTURES DURING CONSTRUCTION.
6. DO NO CUTTING, DRILLING, OR MODIFYING OF STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.
7. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY
8. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS WITH THE STRUCTURAL DRAWINGS.
10. CONTRACTOR TO VERIFY ALL WALL, COLUMN, AND SLAB LOCATIONS, THICKNESS, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
11. THE GENERAL CONTRACTOR SHALL COORDINATE THE PLACEMENT OF FOOTINGS, COLUMNS, SLAB, WALLS, SHAFTS, ETC., WITH ALL SUBCONTRACTORS INVOLVED.
12. FOUNDATIONS ARE DESIGNED FOR AN ASSUMED SOILS BEARING CAPACITY OF **2,000 psf**. THE BOTTOM OF ALL FOOTINGS ARE TO BE PLACED BELOW THE FROST DEPTH.
13. CONTRACTOR SHALL PROVIDE FOOTING STEPS PER DETAIL 5/S3.0 TO ENSURE TOP OF FOOTING ELEVATIONS ARE BELOW ALL CONSTRUCTION ITEMS FROM ALL OTHER TRADES WHERE CROSSING OVER FOOTINGS, TYP. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING WITH FINAL GRADES THAT ALL TOP OF FOOTINGS ARE A MINIMUM OF 8 INCHES BELOW GRADE WHETHER SHOWN ON DRAWINGS OR NOT, TYP.
14. **THE GENERAL CONTRACTOR AND/OR OWNER SHALL FIELD VERIFY THE ACTUAL SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION. FOUNDATION MAY REQUIRE RE-DESIGN IF SOIL BEARING CAPACITY IS LOWER THAN 2,000 PSF.**
10. VERIFY ALL OPENING SIZES AND LOCATIONS ON THE STRUCTURAL DRAWINGS w/ THE MECHANICAL DRAWINGS.
11. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS, TYPICAL

**SPECIAL INSPECTION SCHEDULES**

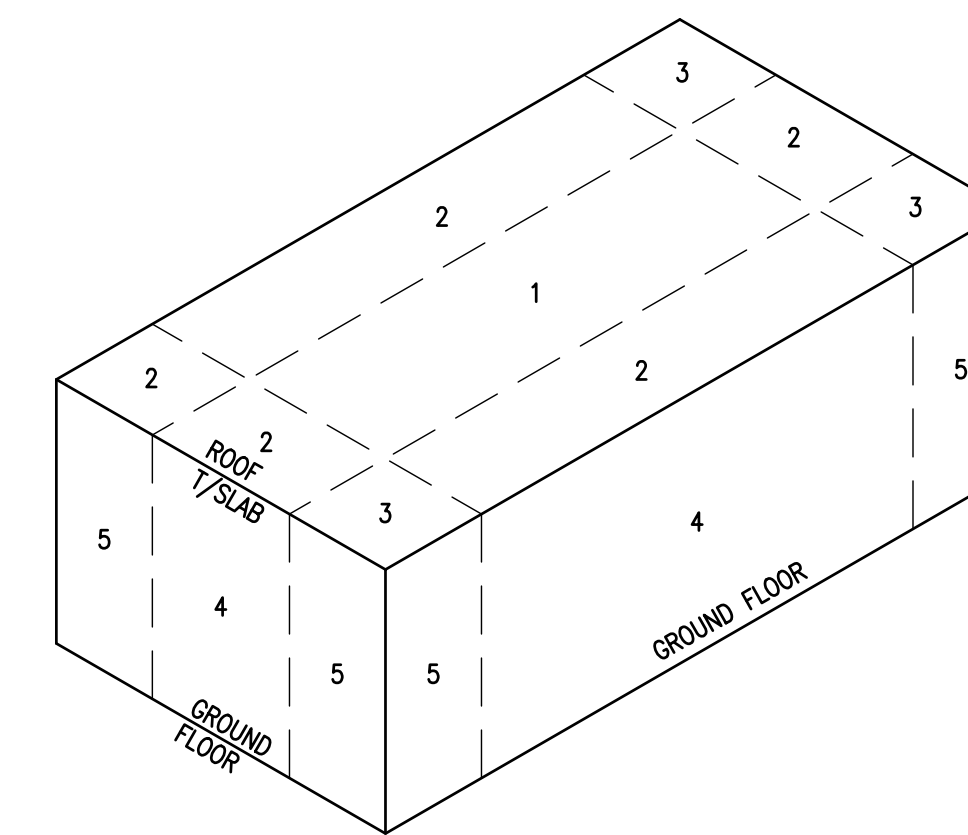
**TABLE 1704.7 REQUIRED VERIFICATION AND INSPECTION OF SOILS**

VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK	PERIODICALLY DURING TASK	Check if NOT Req'd
1. Verify materials below footings are adequate to achieve the design bearing capacity.	-	X	<input type="checkbox"/>
2. Verify excavations are extended to proper depth and have reached proper material.	-	X	<input type="checkbox"/>
3. Perform classification and testing of controlled fill materials.	-	X	<input type="checkbox"/>
4. Verify use of proper materials, densities and lift thickness during placement and compaction of controlled fill.	X	-	<input type="checkbox"/>
5. Prior to placement of controlled fill, observe subgrade and verify site has been prepared properly.	-	X	<input type="checkbox"/>

**Table 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

Inspection Task	FREQUENCY OF INSPECTION		REFERENCE SECTION	IBC SECTION	CHECK IF NOT REQ'D
	Continuous during task listed	Periodically during task listed			
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	---	X	ACI 318: 3.5, 7.1-7.7	1913.4	<input type="checkbox"/>
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B.	---	---	AWS D1.4 ACI 318: 3.5.2	---	<input checked="" type="checkbox"/>
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased.	X	---	---	1911.5, 1912.1	<input type="checkbox"/>
4. Inspection of anchors installed in hardened concrete	---	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1	<input type="checkbox"/>
5. Verifying use of required design mix.	---	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3	<input type="checkbox"/>
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10	<input checked="" type="checkbox"/>
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	---	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8	<input checked="" type="checkbox"/>
8. Inspections for maintenance if specified curing temperature and techniques.	---	X	ACI 318: 5.11-5.13	1913.9	<input checked="" type="checkbox"/>
9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	X X	---	ACI 318:18.20 ACI 318: 18.18,4	---	<input checked="" type="checkbox"/>
10. Erection of precast concrete members.	---	X	ACI 318: Ch. 16	---	<input checked="" type="checkbox"/>
11. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	---	X	ACI 318: 6.2	---	<input checked="" type="checkbox"/>
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	---	X	ACI 318: 6.1.1	---	<input checked="" type="checkbox"/>

**TORNADO SHELTER WIND DATA**



**TORNADO SHELTER COMPONENTS AND CLADDING WIND PRESSURES**

ZONE	MAX P (PSF)	MIN P (PSF)	
ROOF SLAB	1	53	-204
	2	53	-271
	3	53	-327
CONC. WALL	4	134	-145
	5	134	-169
DOORS	4	134	-152

NOTES:  
 1. ZONE 5 WIDTH = 3'-0"

**TORNADO SHELTER MWRS PRESSURES**

	MAX P (PSF)	MIN P (PSF)
ROOF SLAB	4	-140
CONC. WALL	WINDWARD P (PSF)	LEEWARD P (PSF)
GCpi = +.018	68	-82
GCpl = -.018	116	-33

NOTES:  
 MINIMUM PRESSURE NOT LESS THAN 16 PSF

**SHEAR WALL SCHEDULE (INT. & EXT. WALLS)**

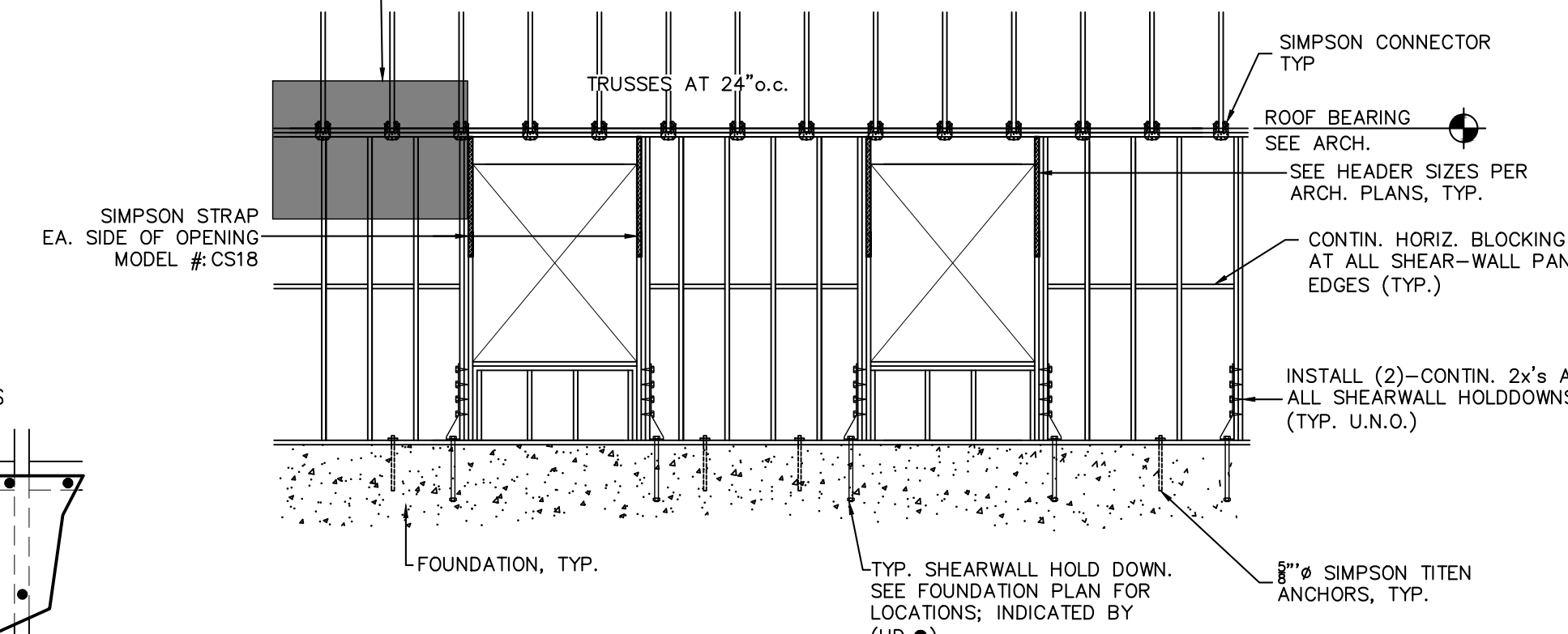
LEVEL	SHEAR WALLS	HOLD DOWN TYP. AT EACH END OF SHEAR WALL	BOTTOM PLATE & CONNECTION	END WALL COL. AT HOLD DOWN
ROOF				
GRND WALL	1/2" STRUCTURAL I OSB ONE SIDE OF WALL w/ BLOCKING ATTACH w/ 10d NAILS w/ 1/2" MIN. PENETRATION AT 6" SPACING AT PANEL EDGES AND 6" SPACING INFILL	SIMPSON HDU2-S0S2.5 FASTEN w/ (6) 1/2" x 2 1/2" TO STUDS 3/8" SB w/ 7" MIN. EMBED INTO FOOTING	SINGLE BOT. PLATE W/ 3/8" TITEN HD AT 24" o.c. X 6" w/ SIMPSON BPS-3 TYPICAL	(2) 2x6 COL.

**SHEAR WALL SCHEDULES**

SCALE: N/A

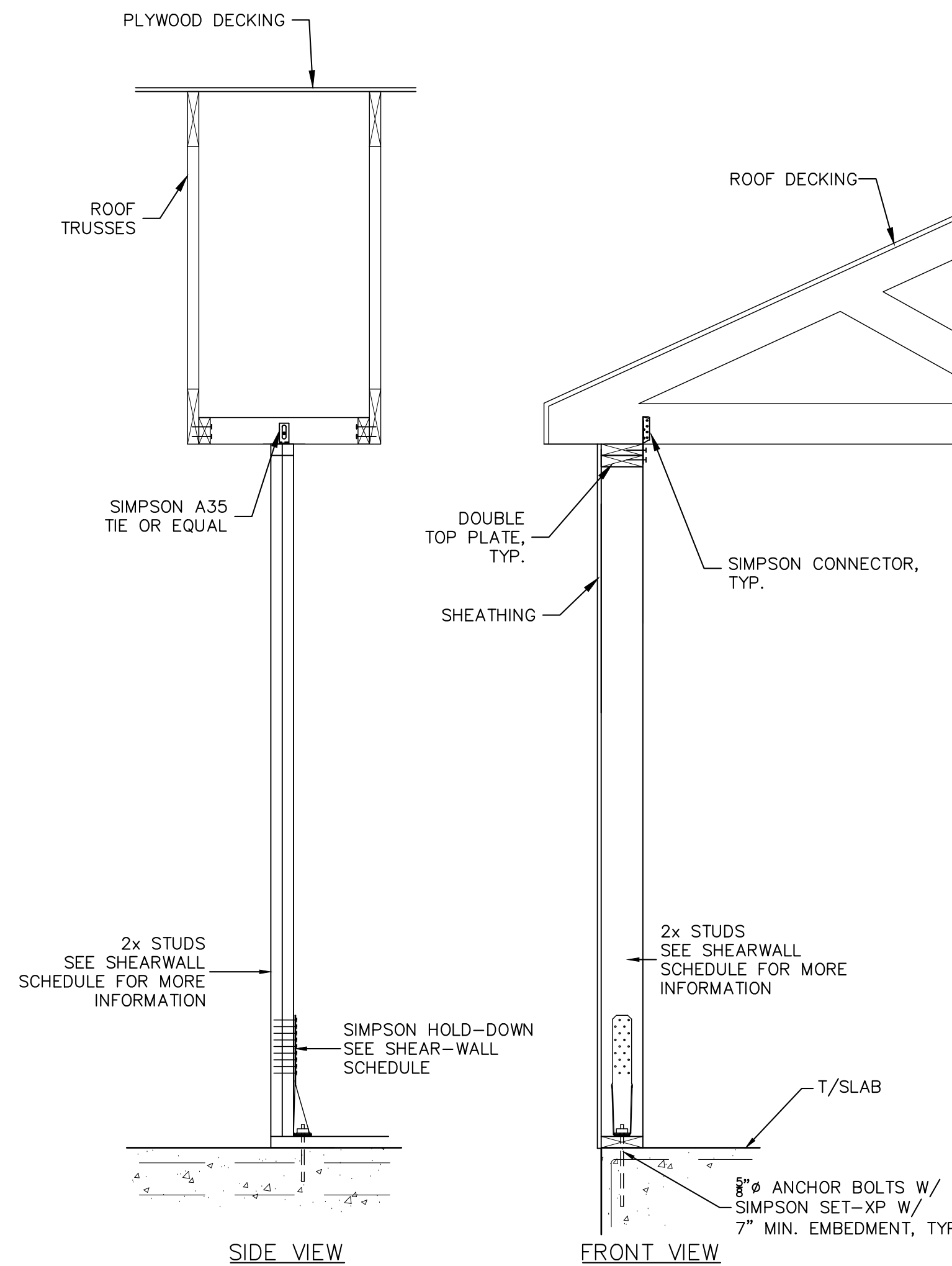
- NOTES:  
 1. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2" STRUCTURAL I OSB & NAILED PER SHEAR WALL SCHEDULE.  
 2. ALL SHEAR WALLS WILL BE BLOCKED AT PANEL EDGES TYP.  
 3. REFER TO THIS SHEET FOR TYPICAL SHEAR WALL ELEVATIONS.  
 4. ALL WALLS SHOWN ON STRUCTURAL PLANS BETWEEN ● HD ARE SHEARWALLS, TYP.  
 5. SEE ARCHITECTURAL PLANS FOR DIMENSIONS.

LAP SHEATHING AT ROOF LEVEL, TYP. SEE SHEAR WALL SCHEDULE FOR FASTENER SIZE AND SPACING

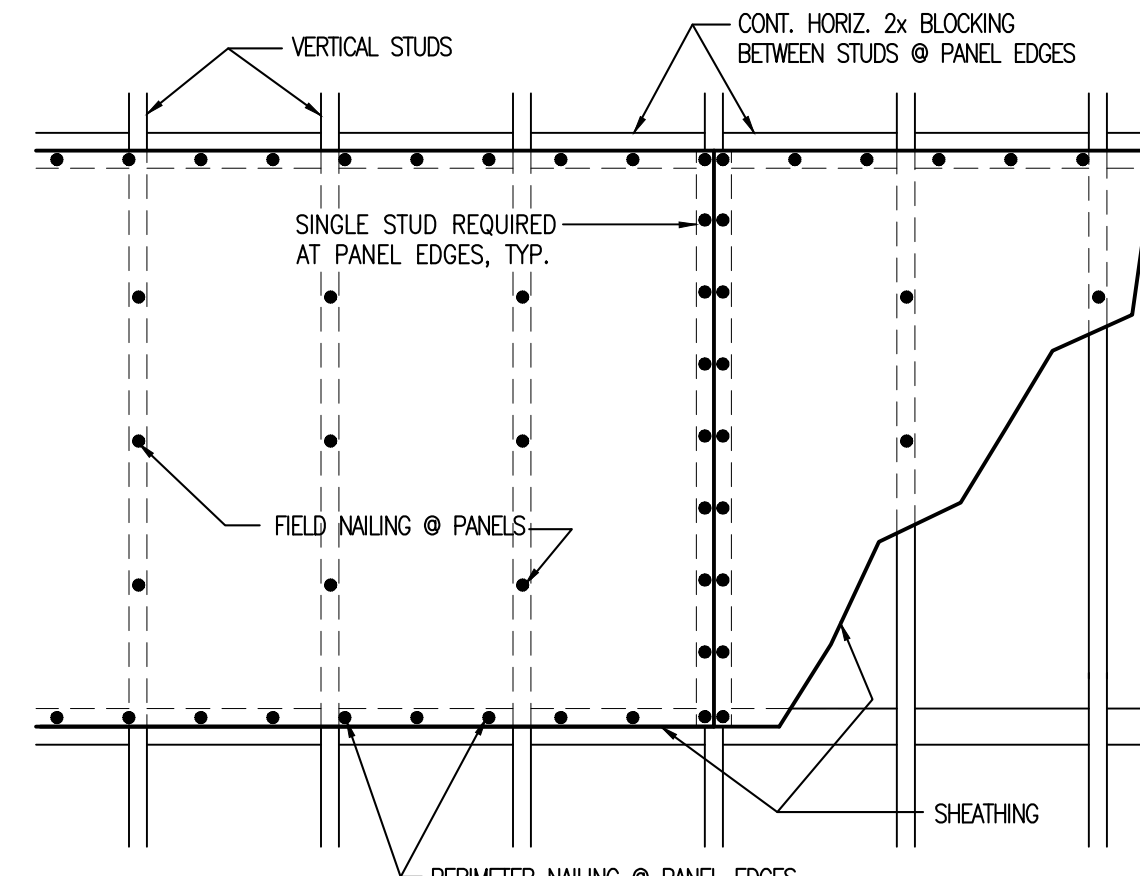


3 TYP. ONE STORY SHEAR WALL ELEV  
 SCALE: N.T.S. DET

- NOTES:  
 1. SEE SHEAR WALL SCHEDULE FOR TYPICAL SHEATHING FASTENING REQUIREMENTS.  
 2. SEE FOUNDATION PLAN FOR SHEARWALL HOLDDOWN LOCATIONS.  
 3. SEE DETAIL 2/S1.0 FOR SHEAR WALL NAILING PATTERN REQUIREMENTS.



1 TYPICAL SHEAR WALL HOLD DOWN DETAILS  
 SCALE: N.T.S. DET



2 TYP. SHEARWALL NAILING PATTERN  
 SCALE: 3/4"=1'-0" DET 008

02/27/2024  
 DATE: GERRY-PC  
 DRAWN BY:  
 DESIGNER: G.P.  
 CHECKED BY:  
 SEAL:

**WILBANKS**  
 Architecture & Associates, LLC

GENERAL NOTES, SPECIAL INSPECTIONS, SHEARWALL SCHEDULES & DETAILS  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**SI.0**  
 PROJECT:  
 WAA: 1314-33

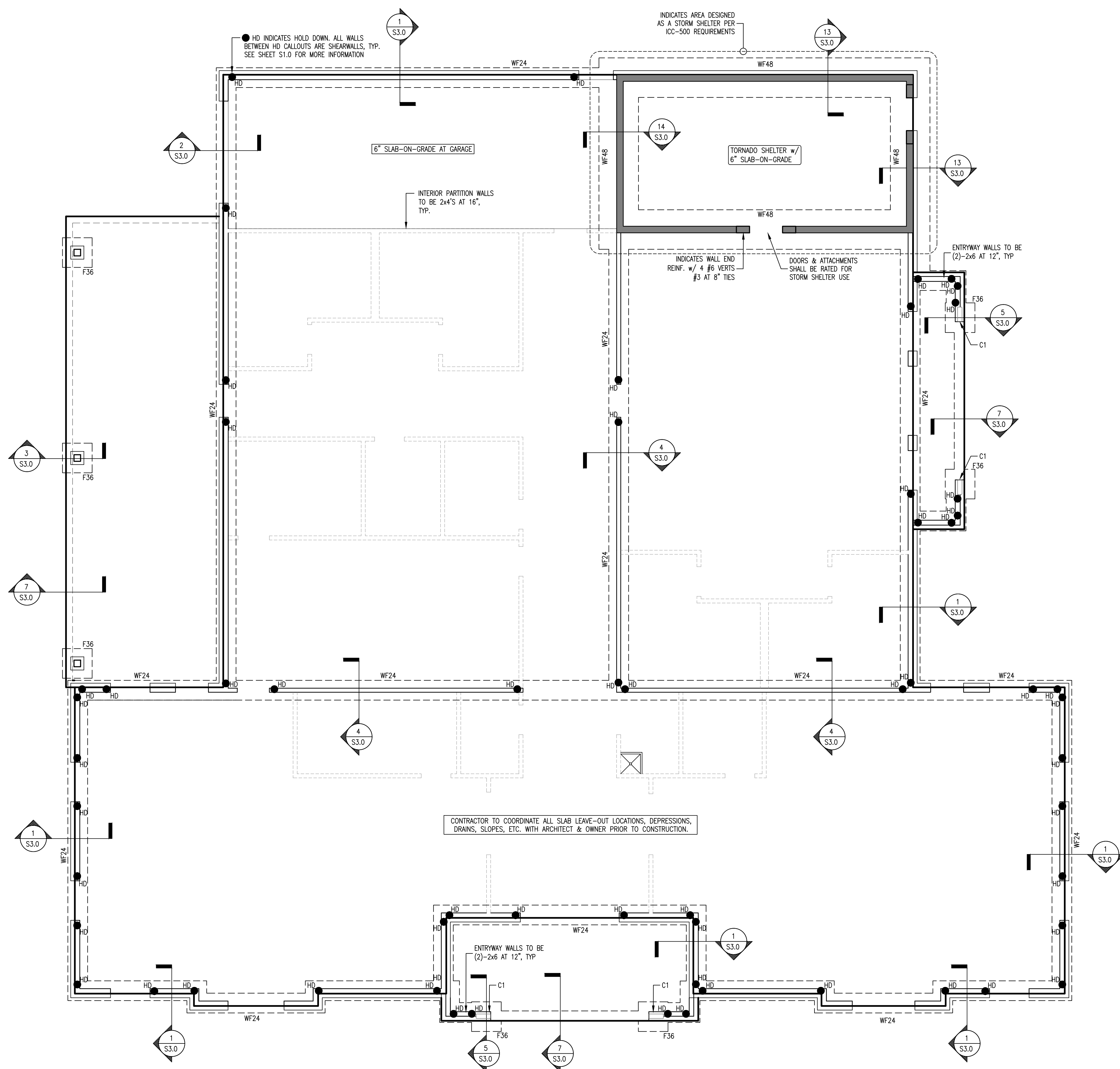
REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



**WILBANKS**  
 Architecture & Associates, LLC

FOUNDATION PLAN  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**S2.0**  
 PROJECT:  
 WAA: 1314-33



COLUMN SCHEDULE	
MARK	SIZE
ROOF	C1
GRND. FLR.	HSS 18x6x3/8 $F_y=46ksi$ 2'-2" $\frac{3}{4}$ "x1'-2" BASE PL w/(4) $\frac{3}{8}$ " x 1'-6" A.B.

WALL FOOTING SCHEDULE		
MARK	SIZE W x D x L	REINFORCING
WF24	2'-0" x 12" x CONT.	(2) #5 CONT. BOT. #5 x 1'-6" AT 24" TRANSV.
WF48	4'-0" x 24" x CONT.	(4) #5 CONT. TOP & BOT. #5 AT 12" STIRRUPS

COLUMN FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F36	3'-0" x 3'-0" x 12"	(6) #5 x 2'-6" $\frac{1}{2}$ E.W.

- FOUNDATION NOTES:**
- 4" S.O.G. w/ 6x6-w2.1xw2.1 W.W.M., U.N.O.
  - T/SLAB EL.=SEE CIVIL.
  - TYP. T/EXT. FOOTINGS EL. = SEE PLAN
  - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECT & CIVIL ENGINEER PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS FOR INFORMATION.
  - SEE FOOTING STEP DETAIL PER 5/S3.0
  - CONTRACTOR TO COORDINATE TOP OF FTG ELEVATIONS, SLAB DEPRESSIONS, DRAINS, ETC. WITH PLUMBING & MECHANICAL DRAWINGS, TYP.
  - ALL INTERIOR FOOTINGS SHALL BE STEPPED TO MATCH EXTERIOR FOOTING ELEVATIONS (SHOWN OR NOT), TYP.
  - SEE DETAILS TYPICAL FOUNDATION DETAILS ON S3.0
  - INSTALL SIMPSON CB66 POST BASES AT ALL VERSALAM COLUMNS, TYP.

CONTRACTOR TO COORDINATE ALL SLAB LEAVE-OUT LOCATIONS, DEPRESSIONS, DRAINS, SLOPES, ETC. WITH ARCHITECT & OWNER PRIOR TO CONSTRUCTION.

**FOUNDATION PLAN**  
 SCALE: 3/16" = 1'-0"

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE







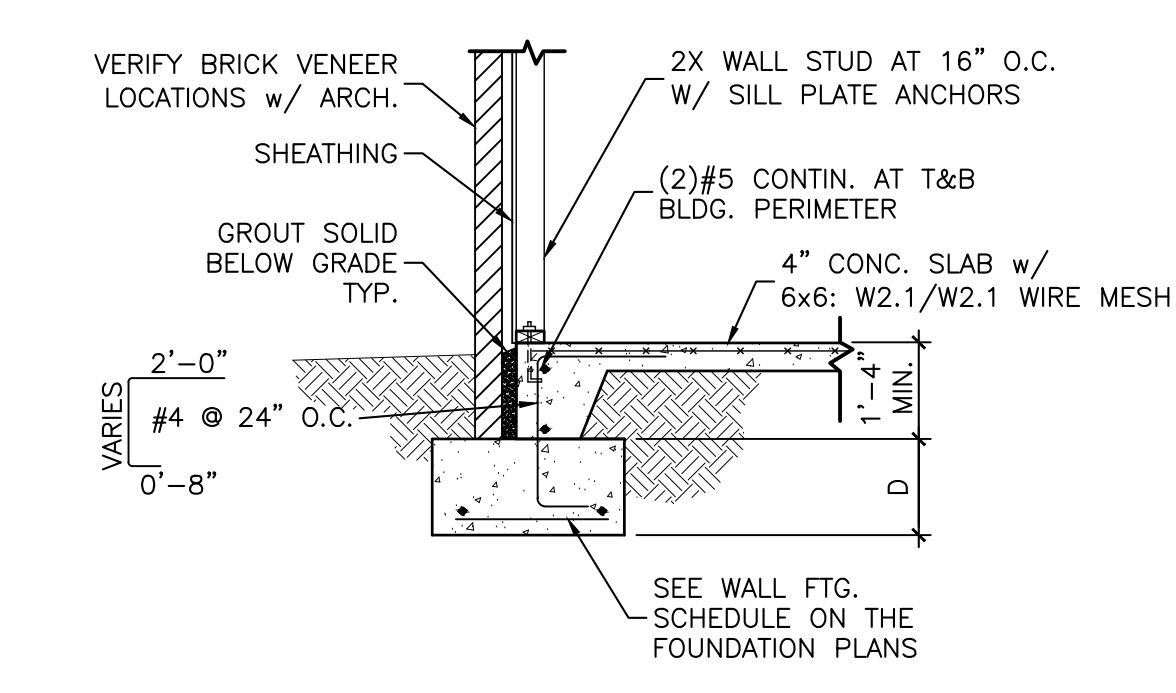
# WILBANKS

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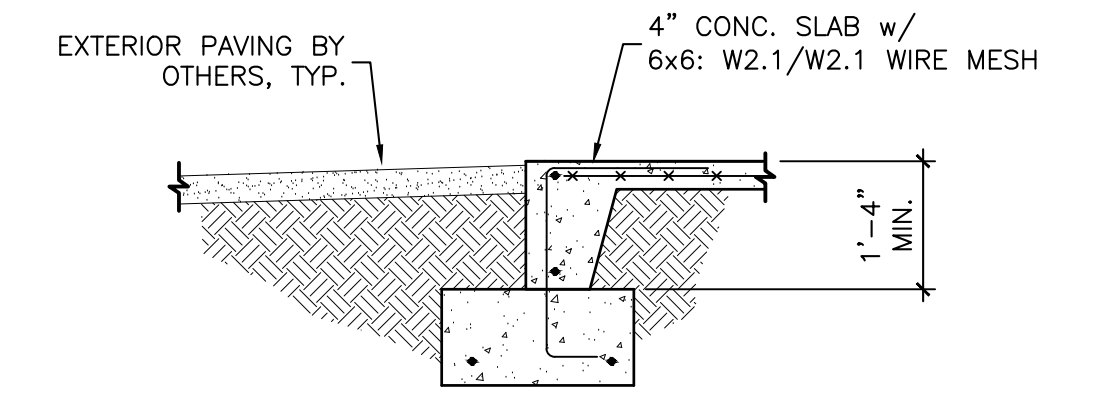
FOUNDATION SECTIONS

NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

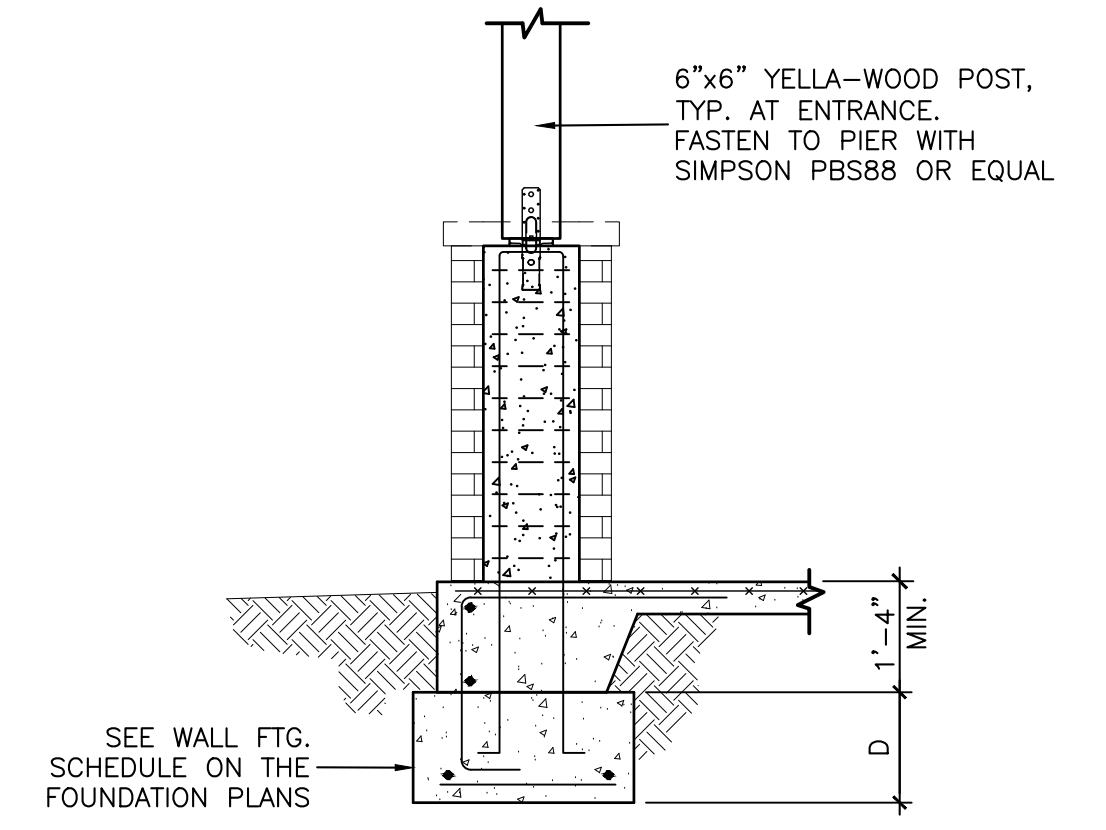
NOTE:  
 ALL EXTERIOR LOAD BEARING WALLS TO BE 2x6 STUDS AT 16"o.c., U.N.O.



1 TYPICAL EXTERIOR FOUNDATION SECTION  
 SCALE: 1/2"=1'-0" DET001

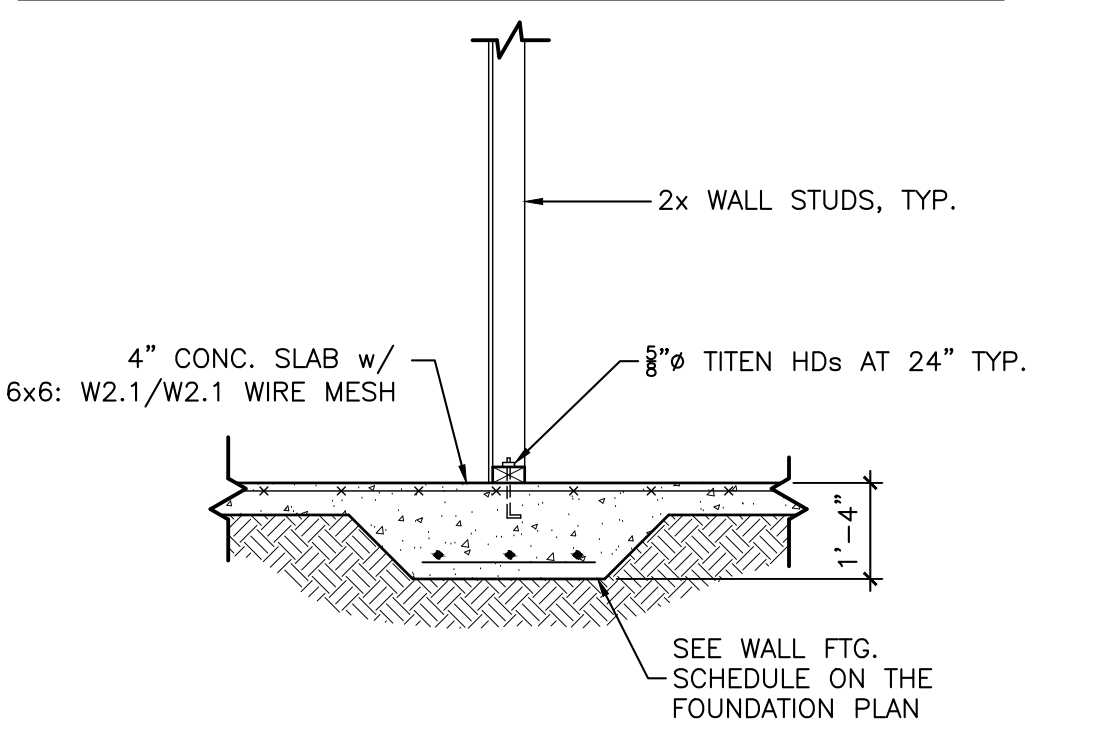


2 SECTION AT ENTRY DOOR  
 SCALE: 1/2"=1'-0" DET010

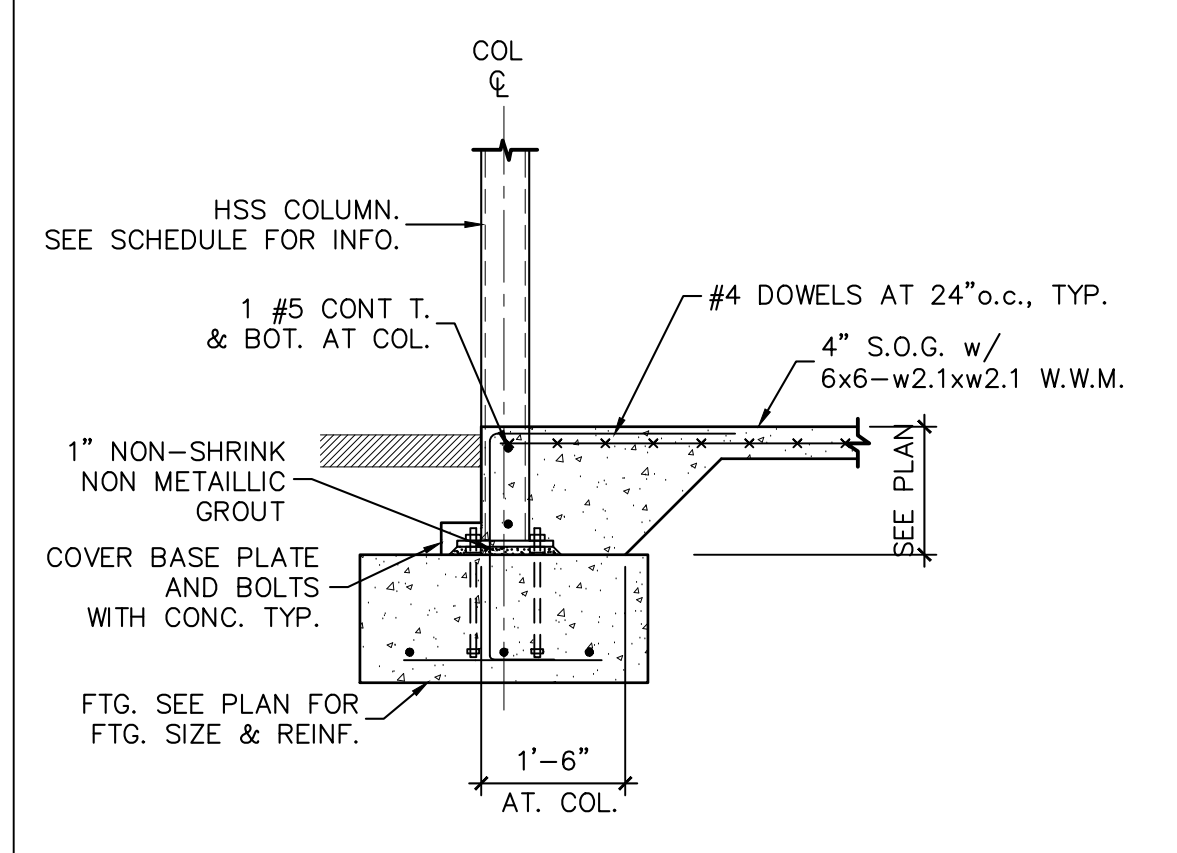


3 FOOTING SECTION  
 SCALE: 1/2"=1'-0" DET003

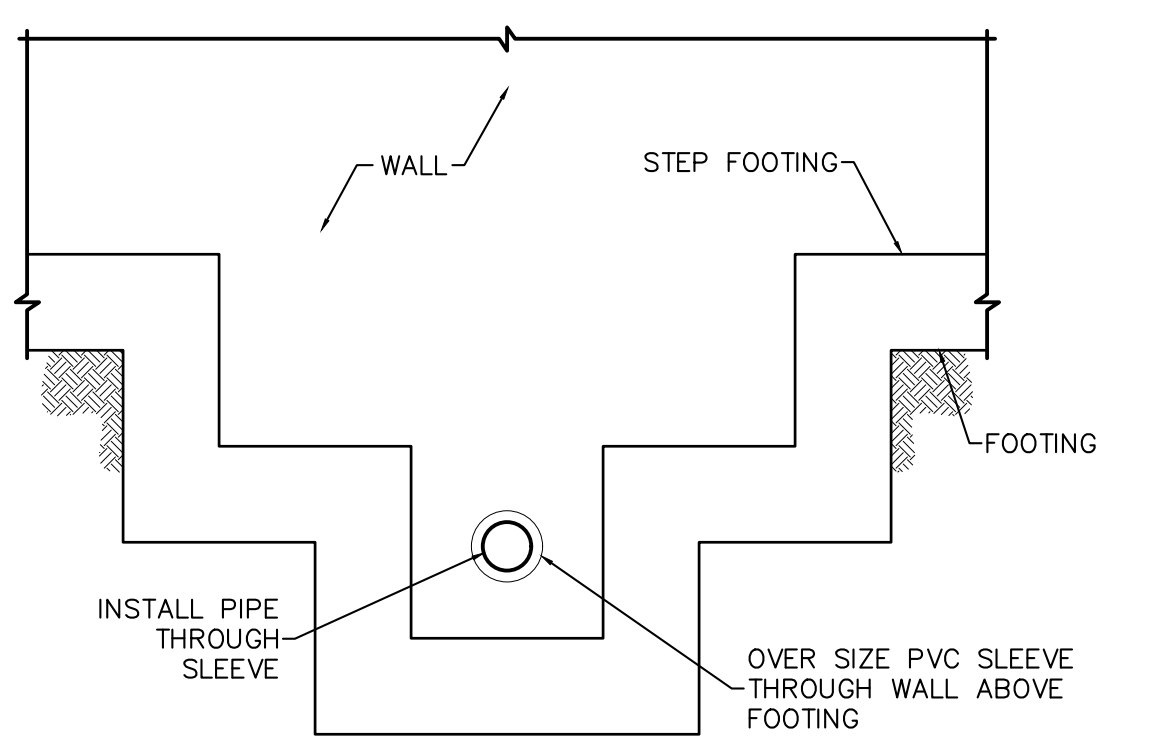
NOTE:  
 ALL INTERIOR BEARING WALLS TO BE 2x6 STUDS AT 16"o.c., UNO



4 TYPICAL INTERIOR FOOTING SECTION  
 SCALE: 1/2"=1'-0" DET003

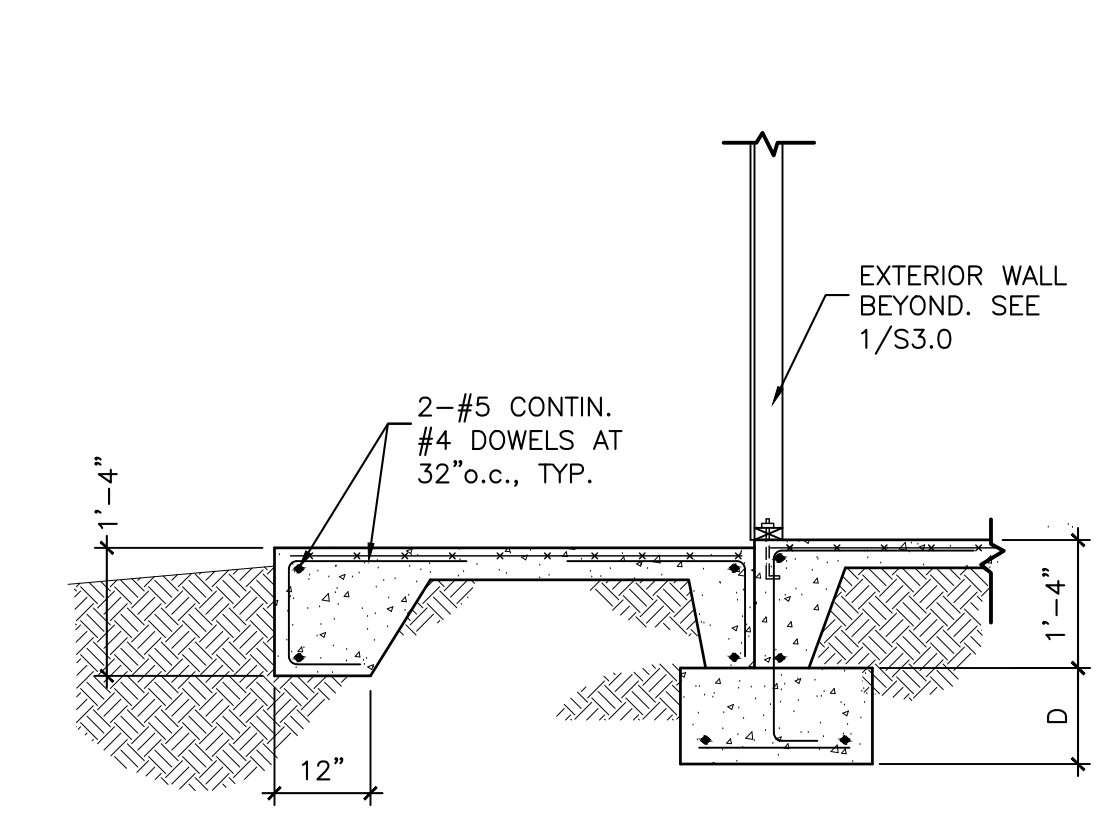


5 EXTERIOR HSS COLUMN FTG.  
 SCALE: 1/2"=1'-0" DET015

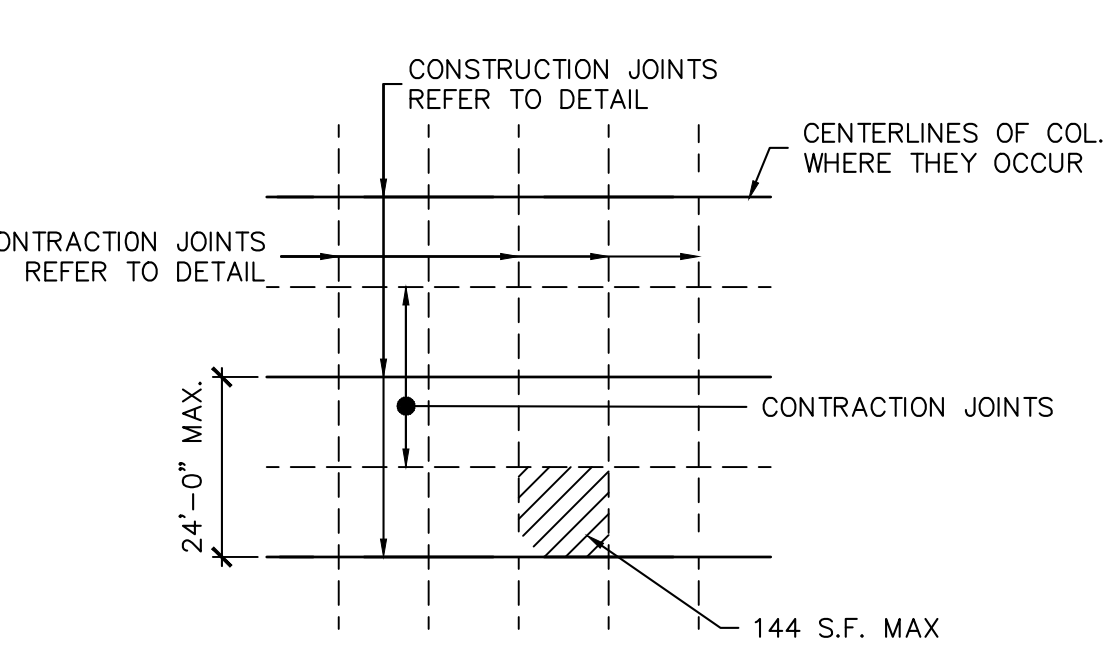


NOTES:  
 1. THE CONTRACTOR SHALL COORDINATE FOOTING STEPS FOR PIPES w/ THE PLUMBING/ CIVIL DRAWINGS.  
 2. PIPES SHALL NOT PASS THROUGH OR UNDER FOOTINGS, TYP.  
 3. FOLLOW THE TYPICAL FOOTINGS STEP DETAIL.

6 PIPES PERPENDICULAR/CROSSING A FOOTING  
 SCALE: 1/2"=1'-0" DET321

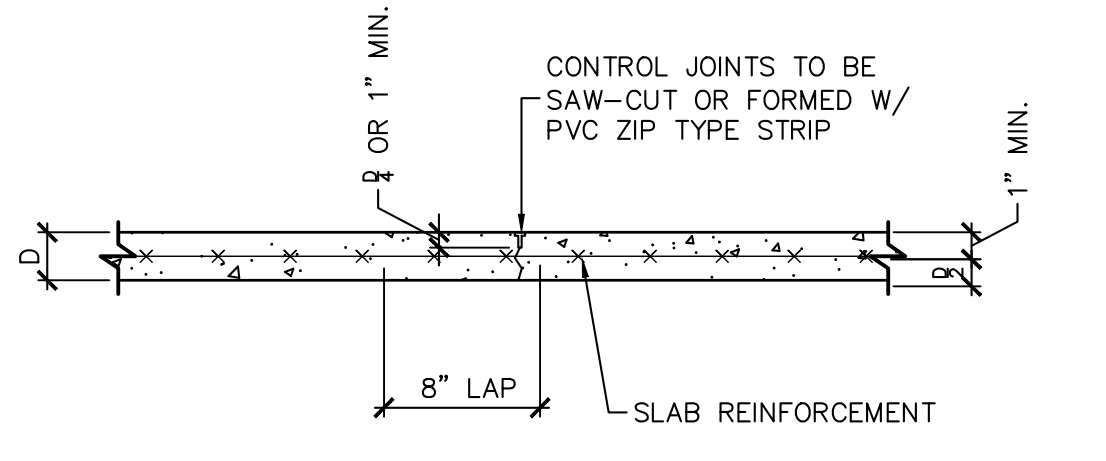


7 SECTION  
 SCALE: 1/2"=1'-0" DET004

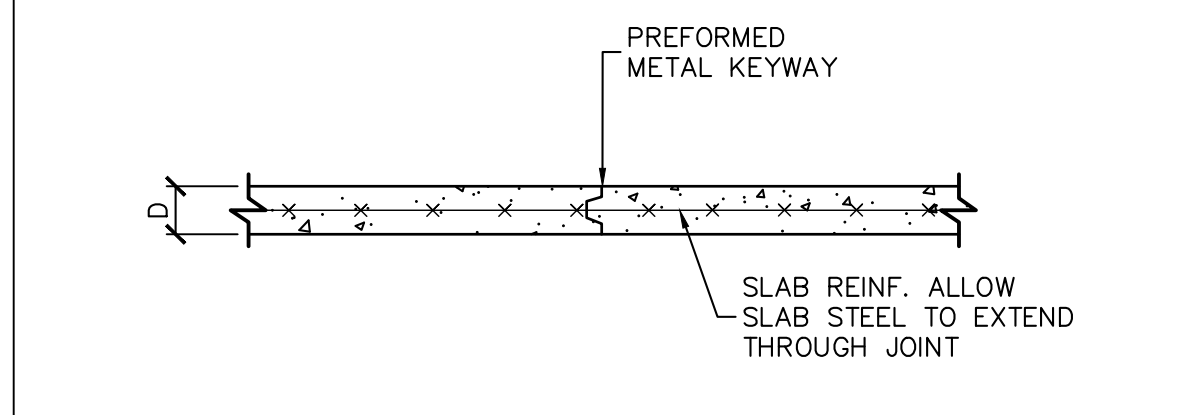


NOTES:  
 1. STRIPS TO BE DIVIDED BY CONSTRUCTION JOINTS AS REQ'D WITH CONSTRUCTION JOINTS SPACED AT INTERVALS NOT EXCEEDING 12' IN EITHER DIRECTION.  
 2. CONTRACTOR CAN SUBMIT A PLAN WITH SAW CUT JOINTS IN BOTH DIRECTIONS FOR APPROVAL. MAX AREA BETWEEN JOINTS SHALL BE 144 S.F.

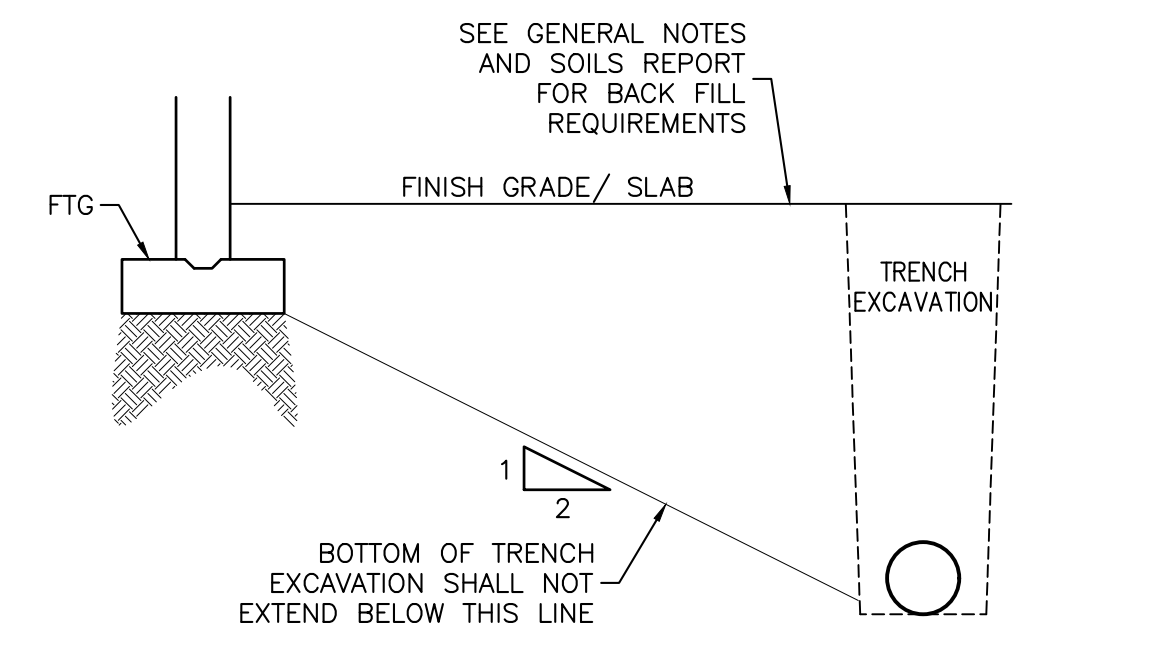
8 SLAB ON GRADE POUR DETAIL  
 SCALE: N.T.S. DET067



9 CONTROL JOINT IN SLAB ON GRADE  
 SCALE: 3/4"=1'-0" DET146

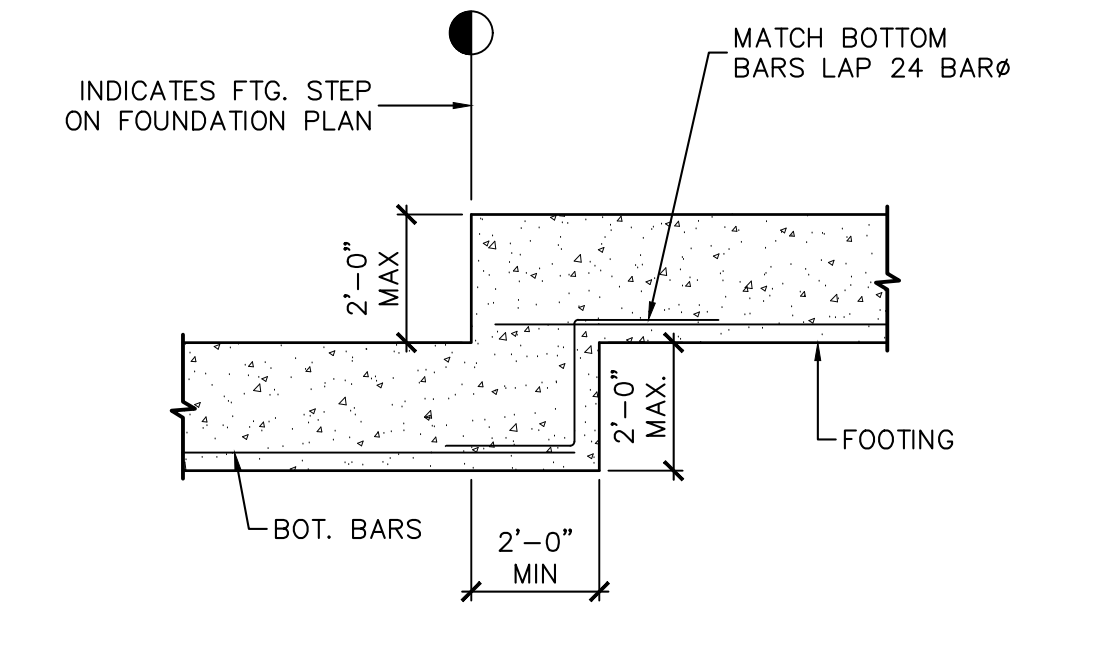


10 CONSTRUCTION JOINT IN SLAB ON GRADE  
 SCALE: 3/4"=1'-0" DET147

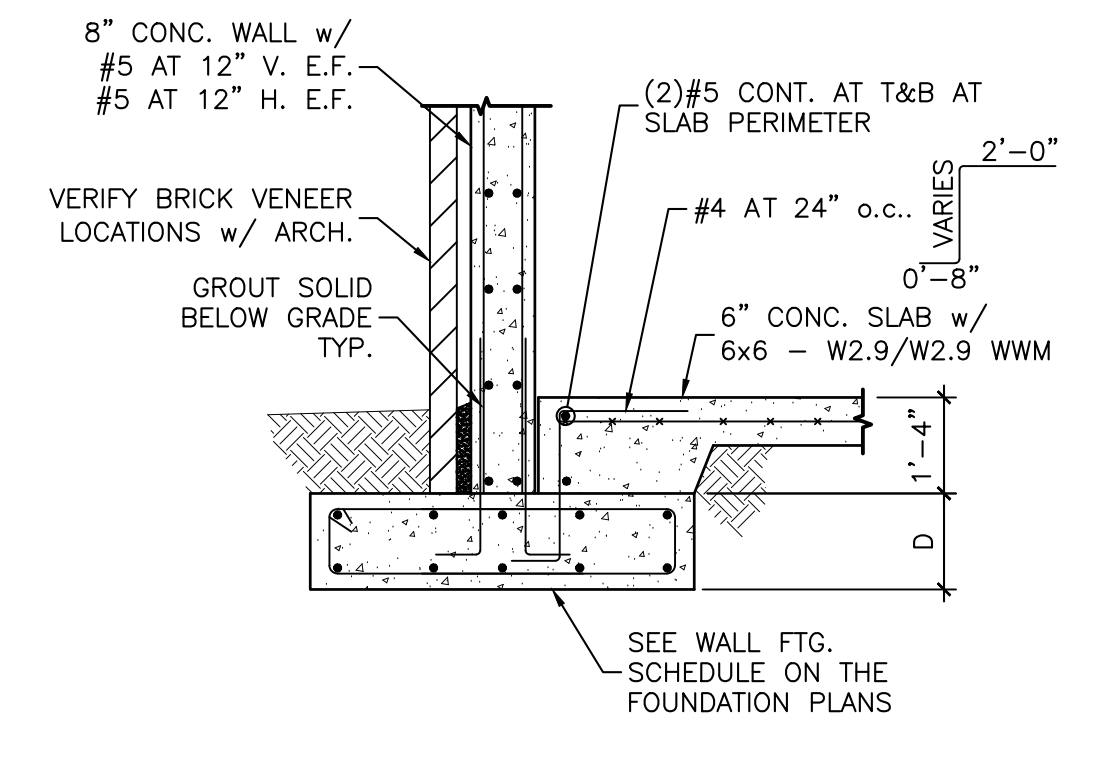


NOTES:  
 1. THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION OPERATIONS WITH BUILDING FOUNDATION REQUIREMENTS.  
 2. SLOPE MAY BE ALTERED TO 1:1 IF CONDITIONS ALLOW AND APPROVED BY ARCHITECT/ENGINEER.

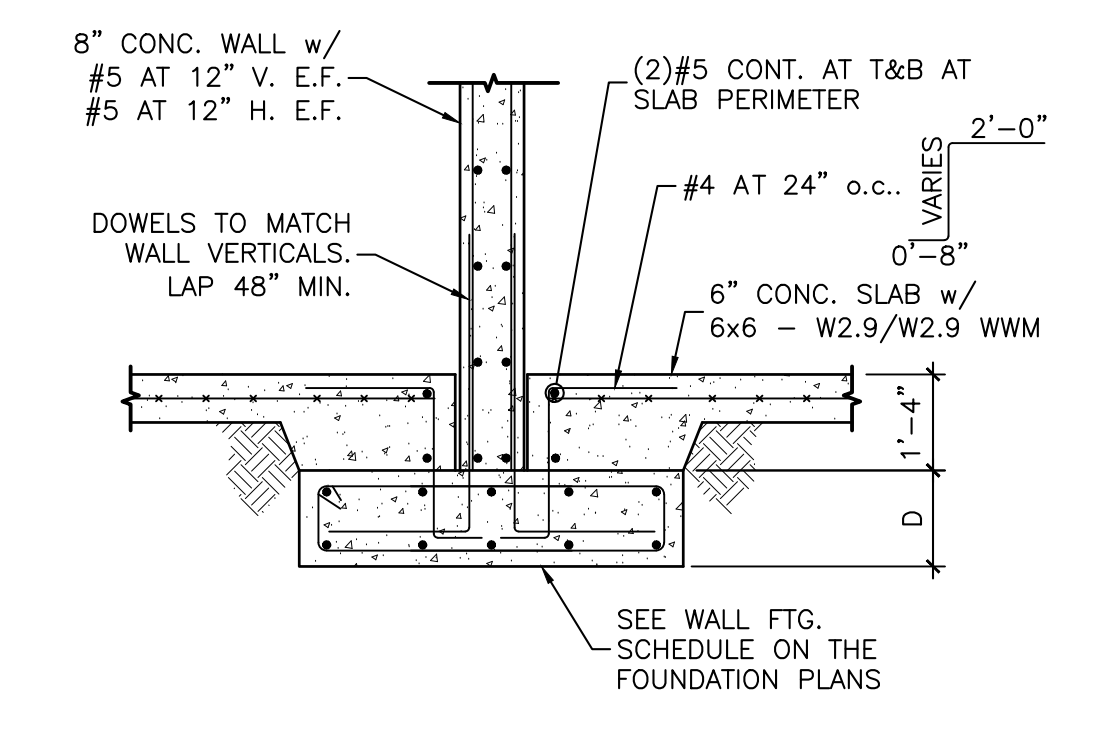
11 TYPICAL FOOTING ENCROACHMENT DETAIL  
 SCALE: 1/2"=1'-0" DET011



12 TYPICAL FOOTING STEP DETAIL  
 SCALE: 1/2"=1'-0" DET007

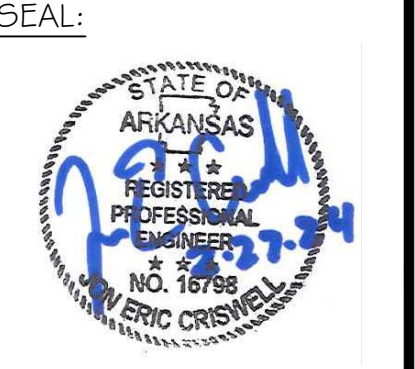


13 EXTERIOR STORM SHELTER SECTION  
 SCALE: 1/2"=1'-0" DET017



14 INTERIOR STORM SHELTER SECTION  
 SCALE: 1/2"=1'-0" DET017

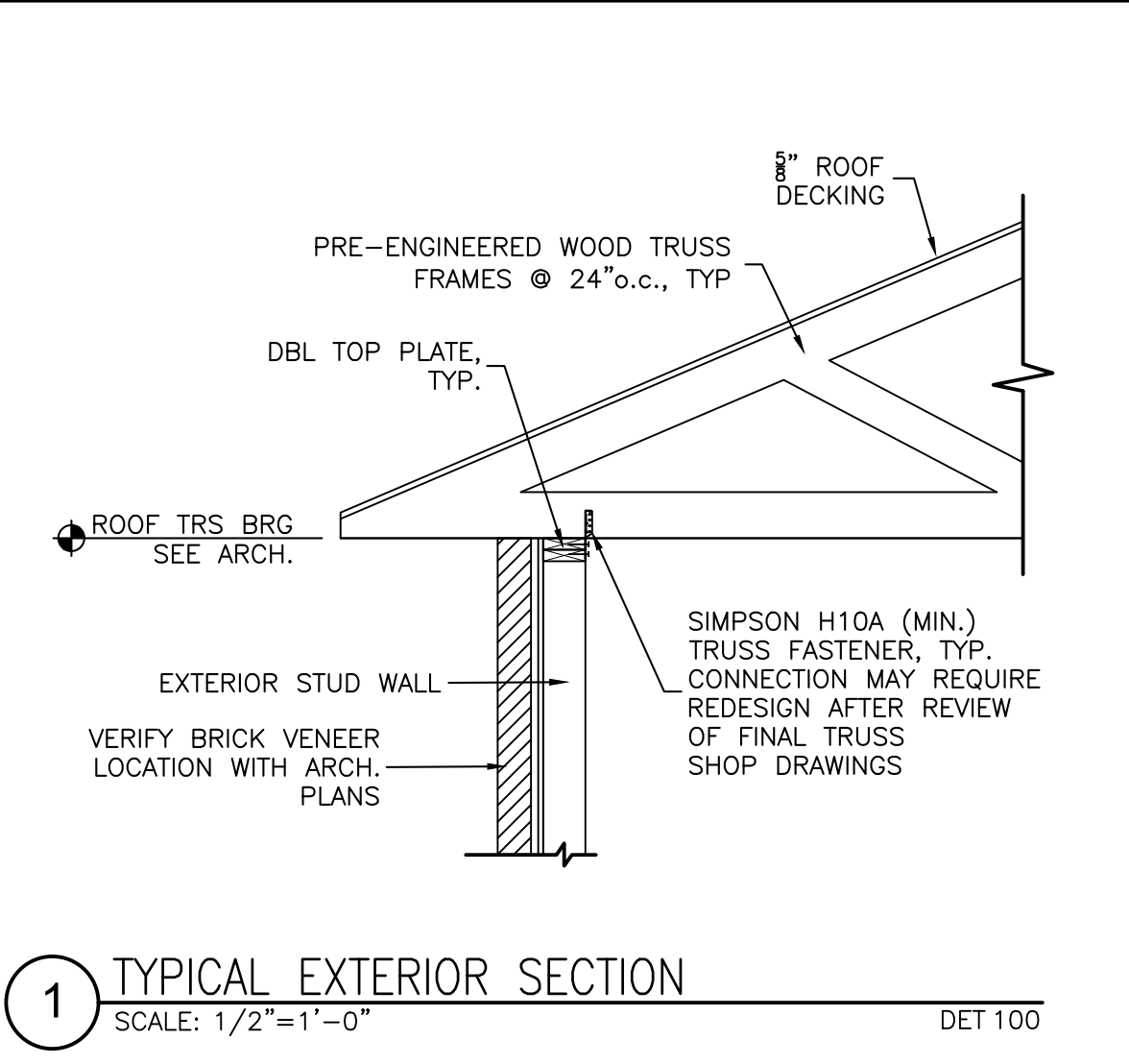
REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



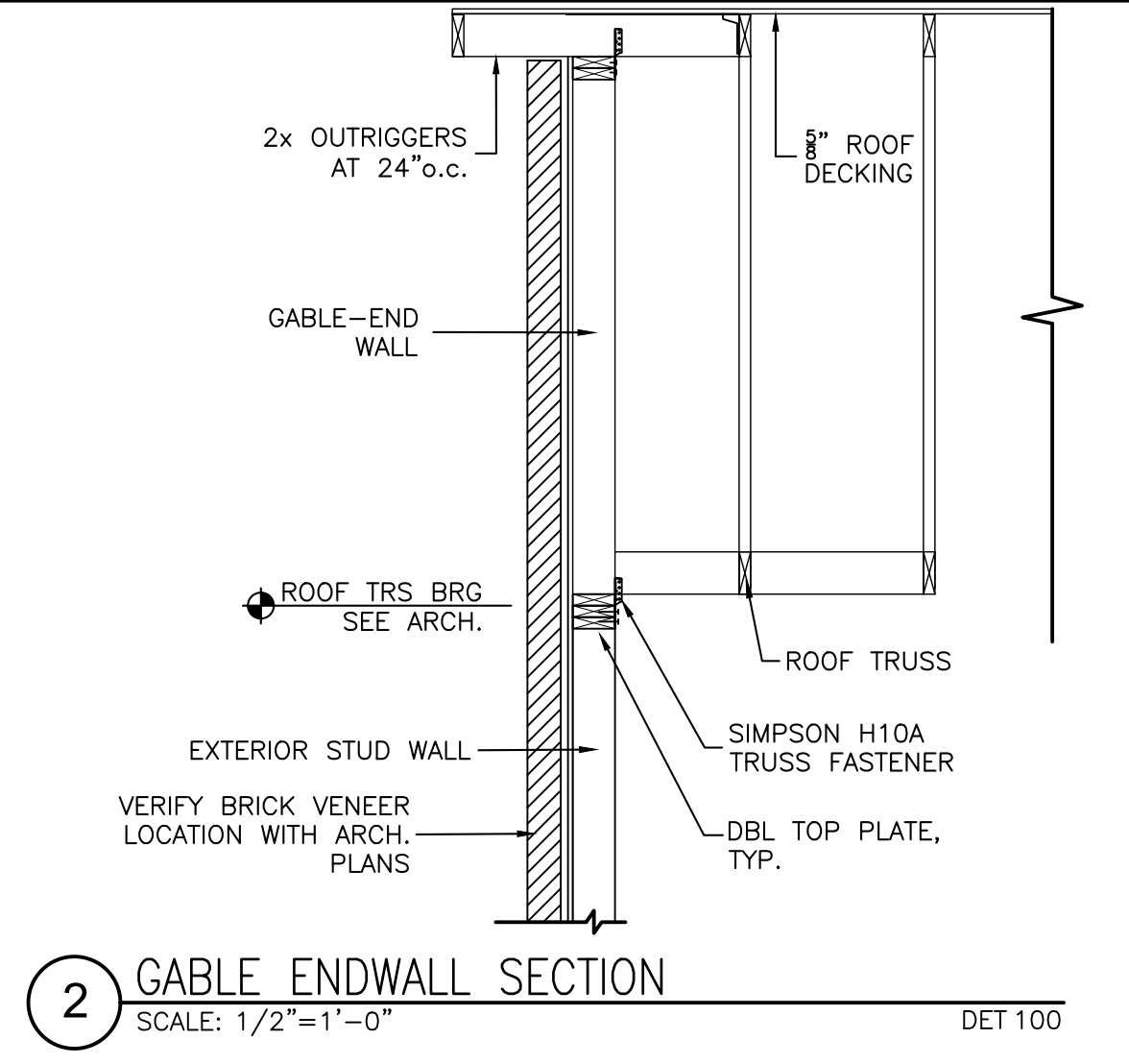
# WILBANKS

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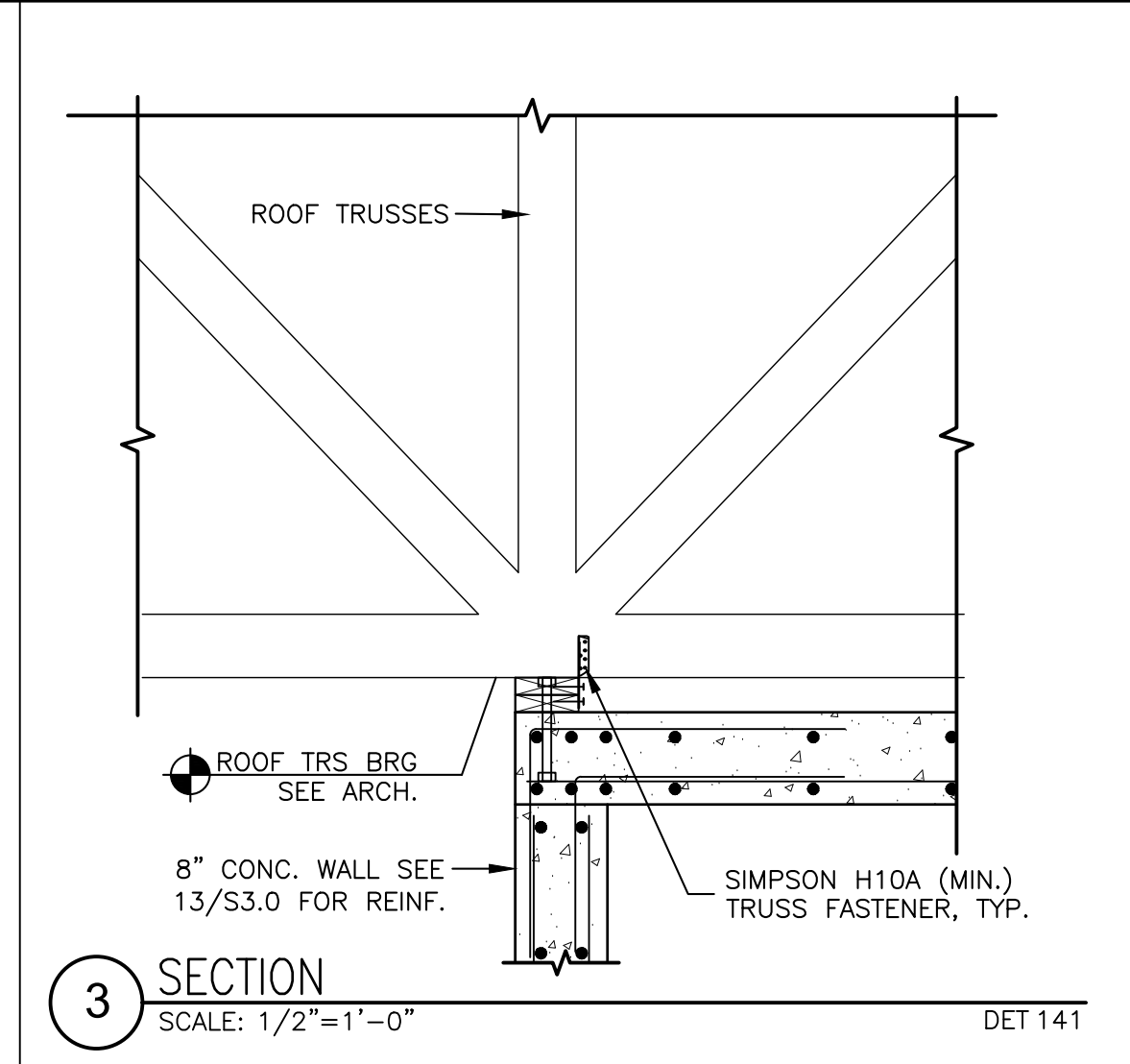
ROOF FRAMING SECTIONS  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS



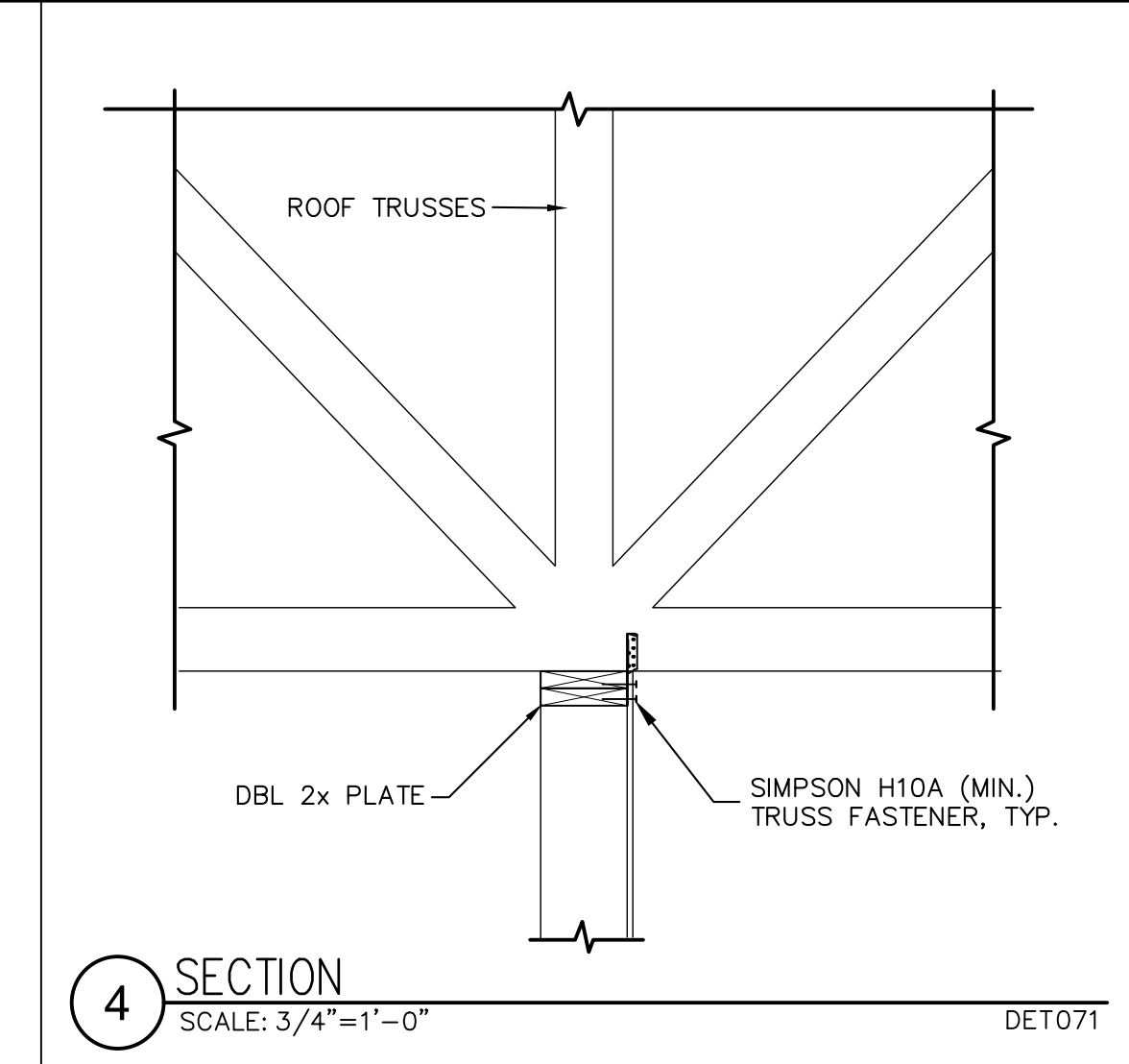
1 TYPICAL EXTERIOR SECTION  
 SCALE: 1/2"=1'-0" DET 100



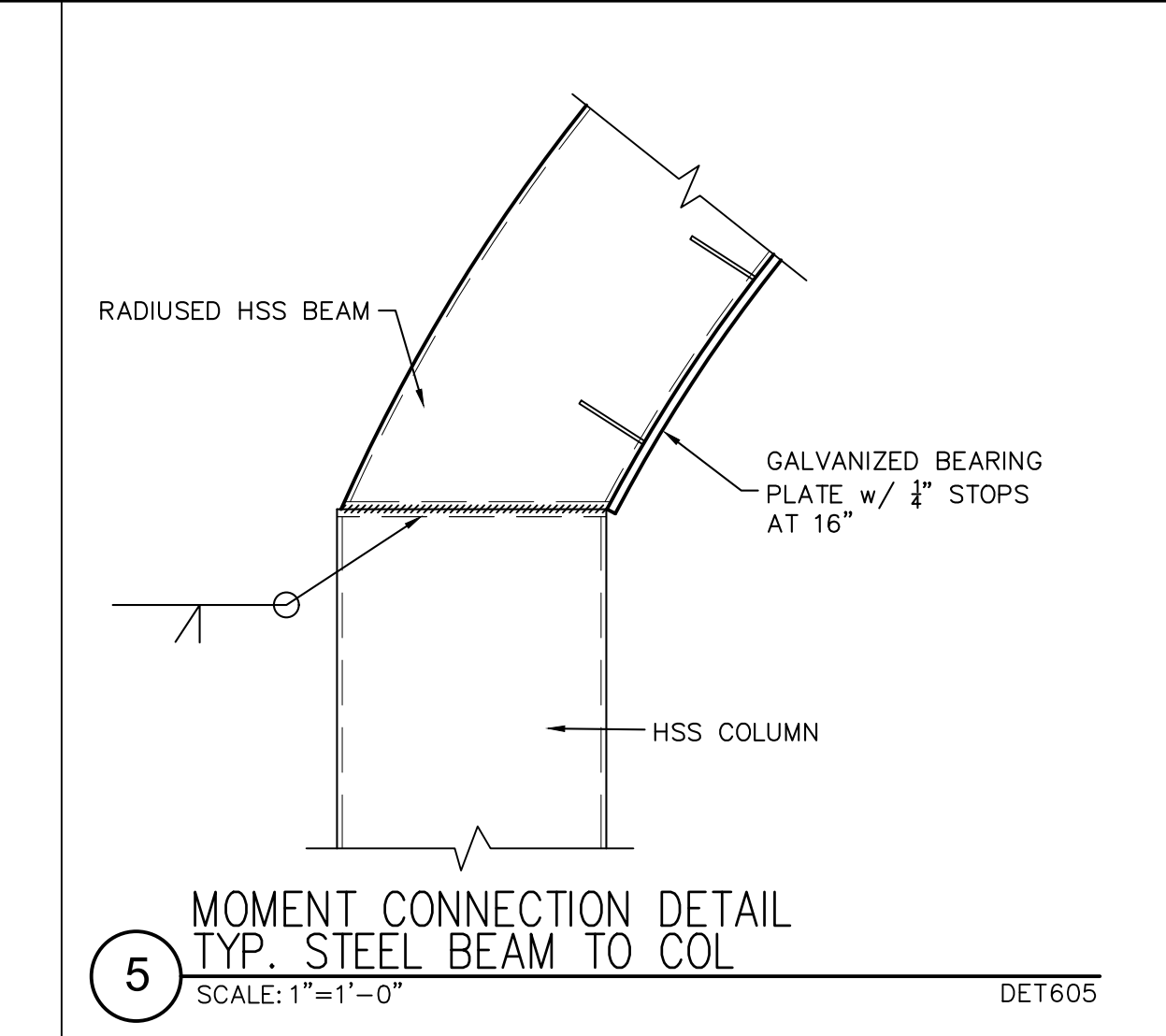
2 GABLE ENDWALL SECTION  
 SCALE: 1/2"=1'-0" DET 100



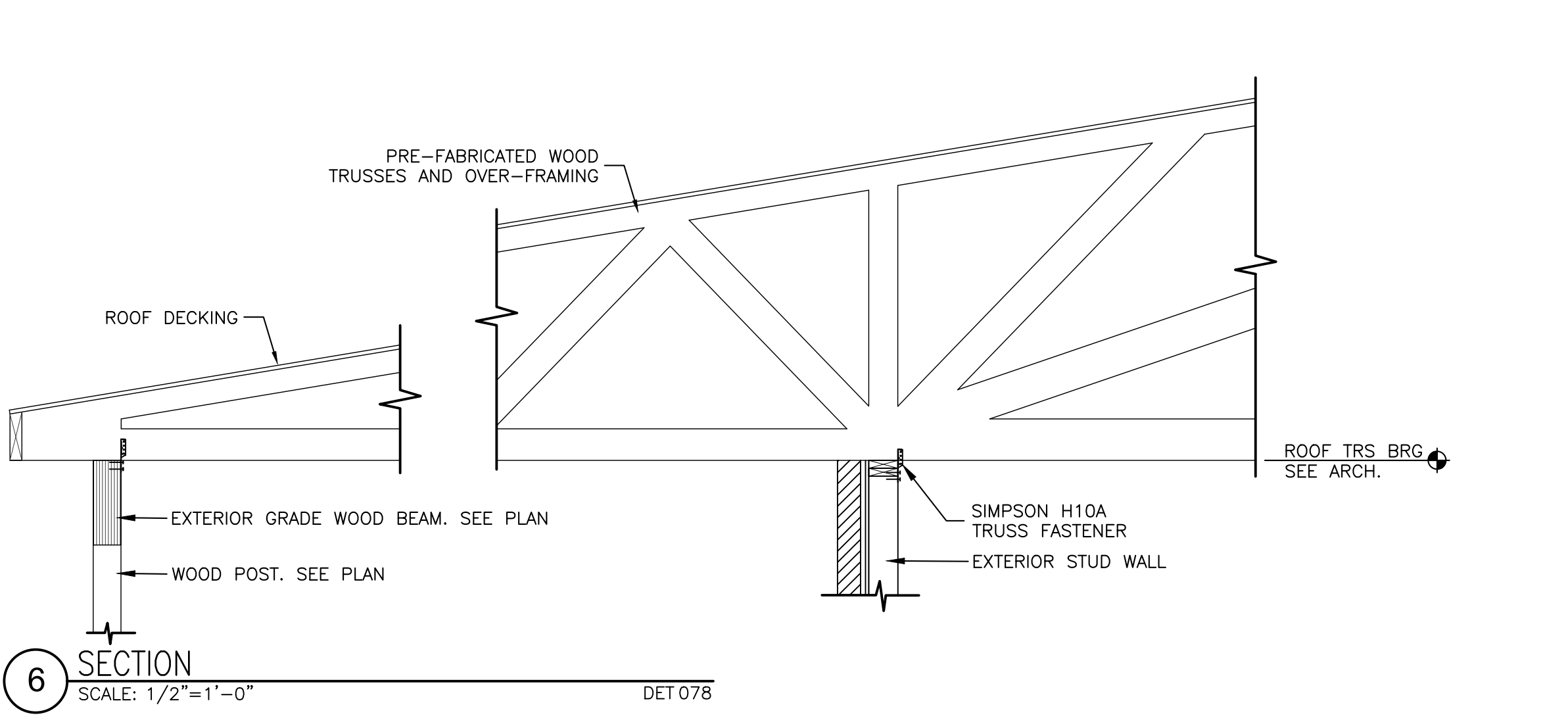
3 SECTION  
 SCALE: 1/2"=1'-0" DET 141



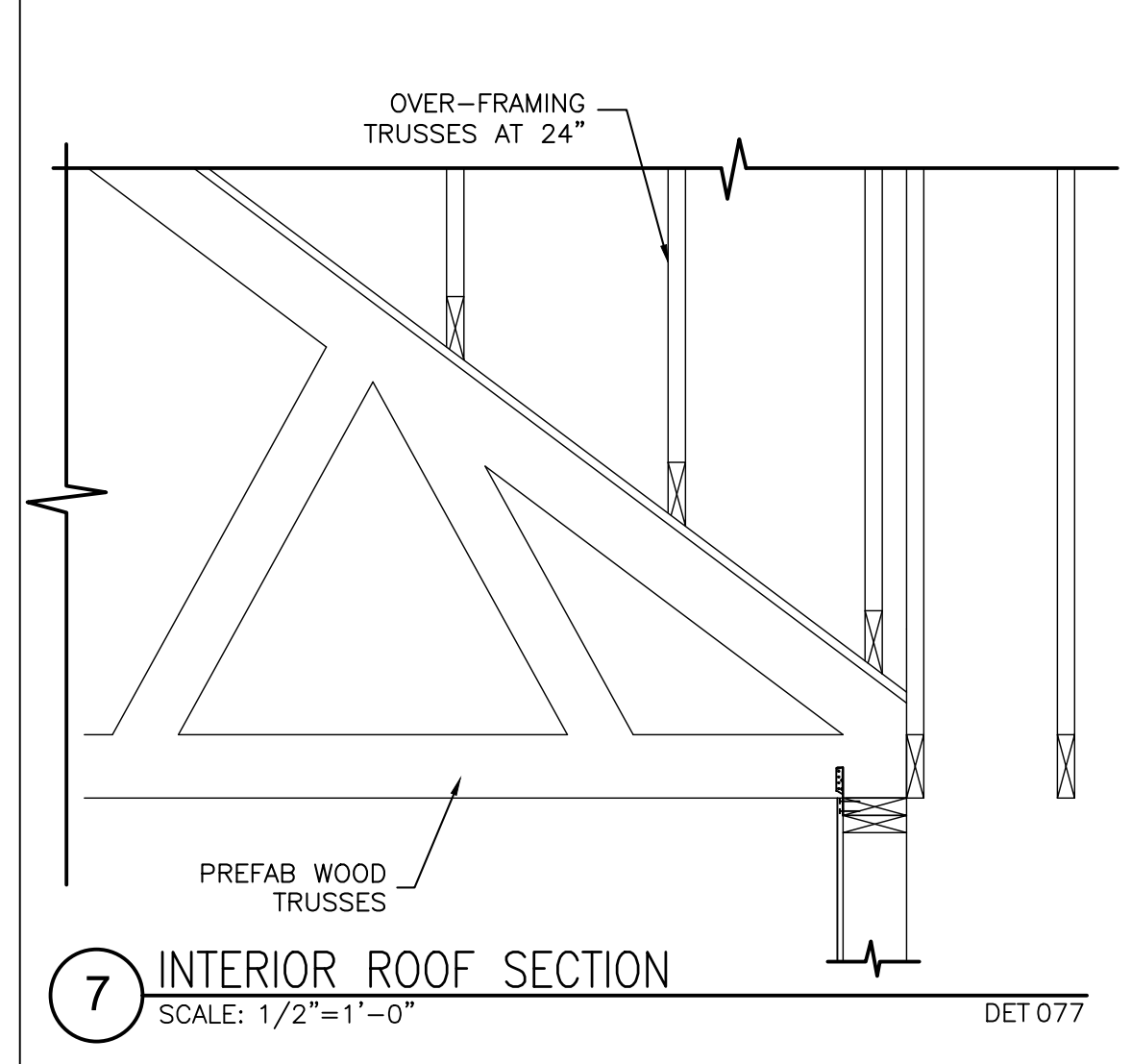
4 SECTION  
 SCALE: 3/4"=1'-0" DET 071



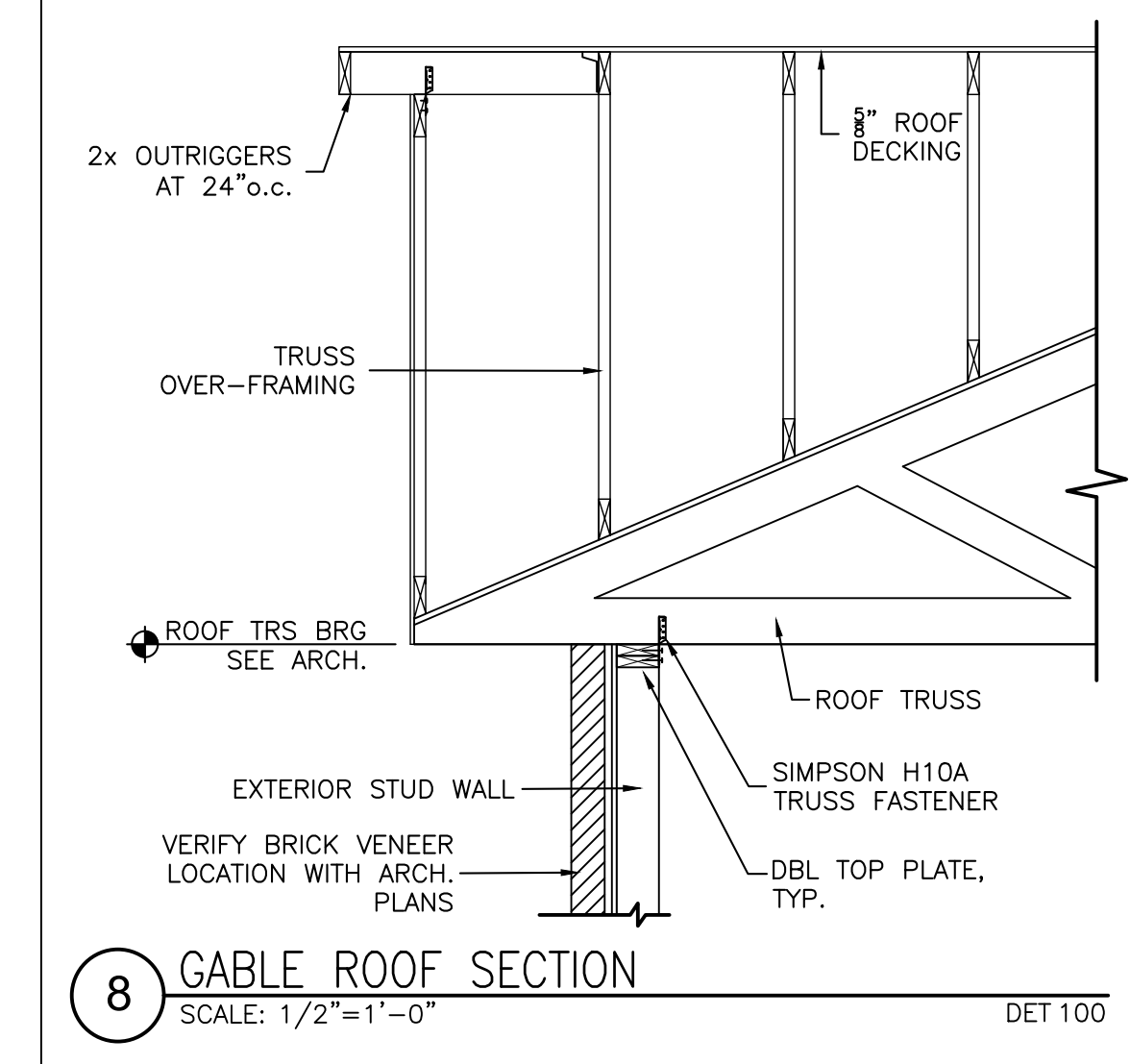
5 MOMENT CONNECTION DETAIL  
 TYP. STEEL BEAM TO COL  
 SCALE: 1"=1'-0" DET 605



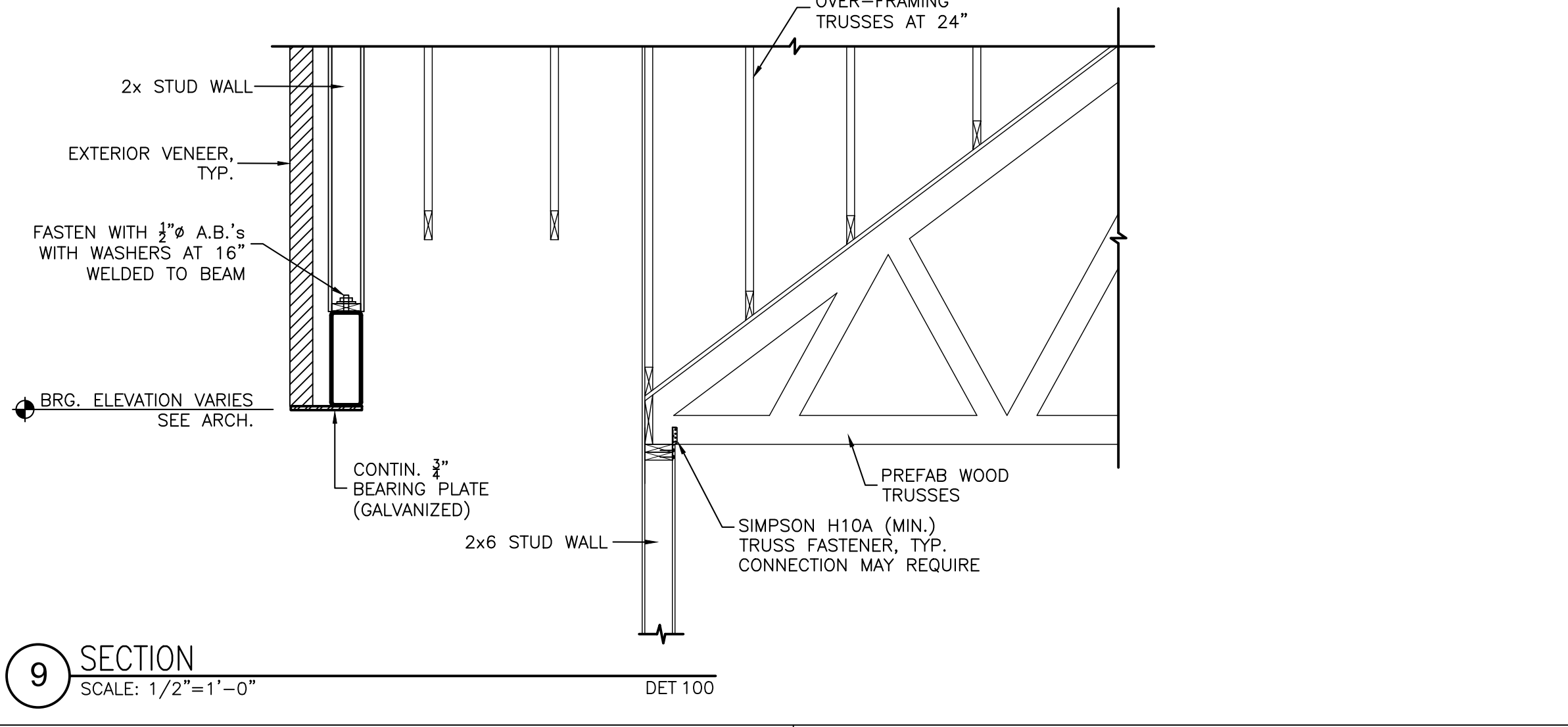
6 SECTION  
 SCALE: 1/2"=1'-0" DET 078



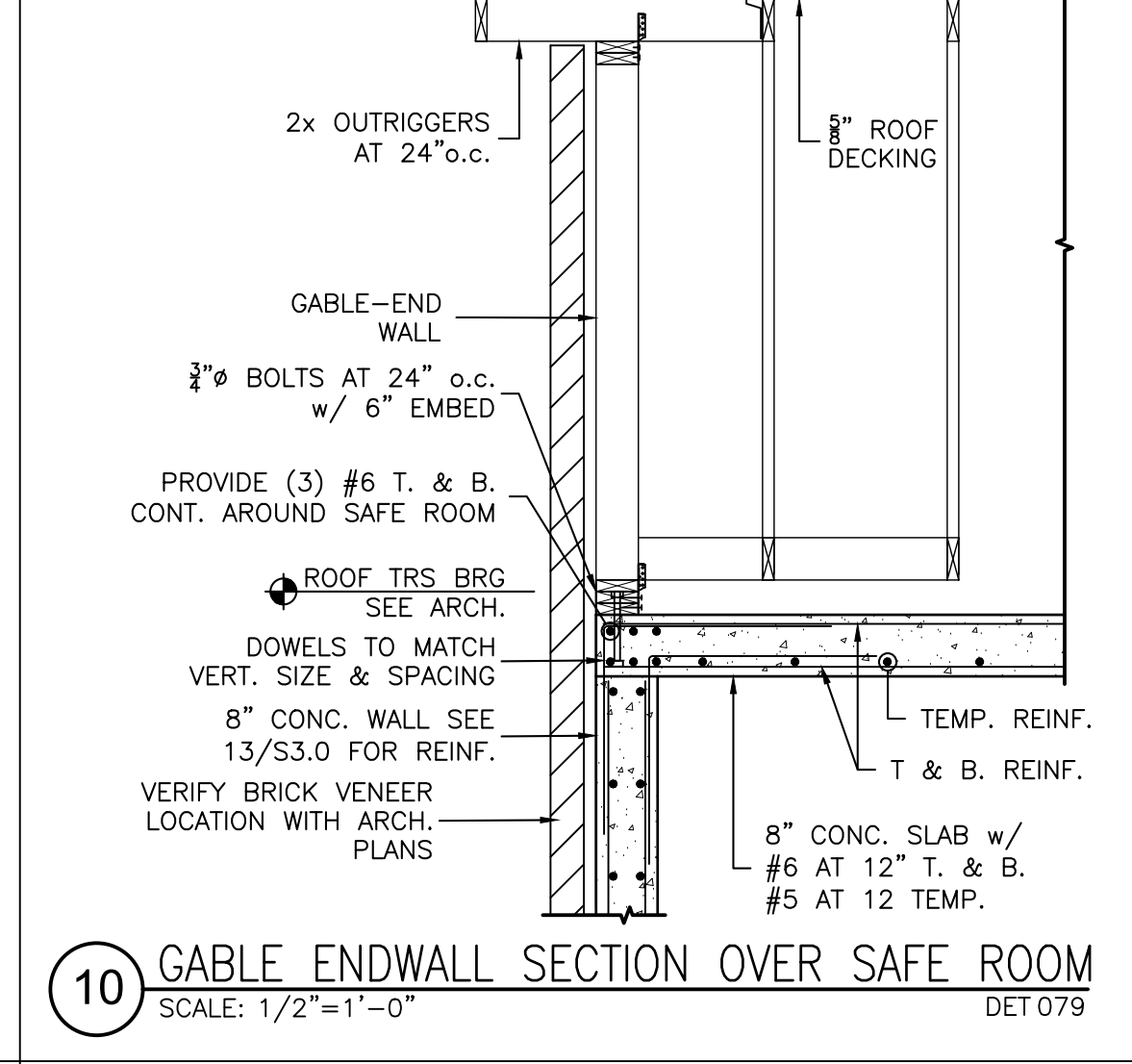
7 INTERIOR ROOF SECTION  
 SCALE: 1/2"=1'-0" DET 077



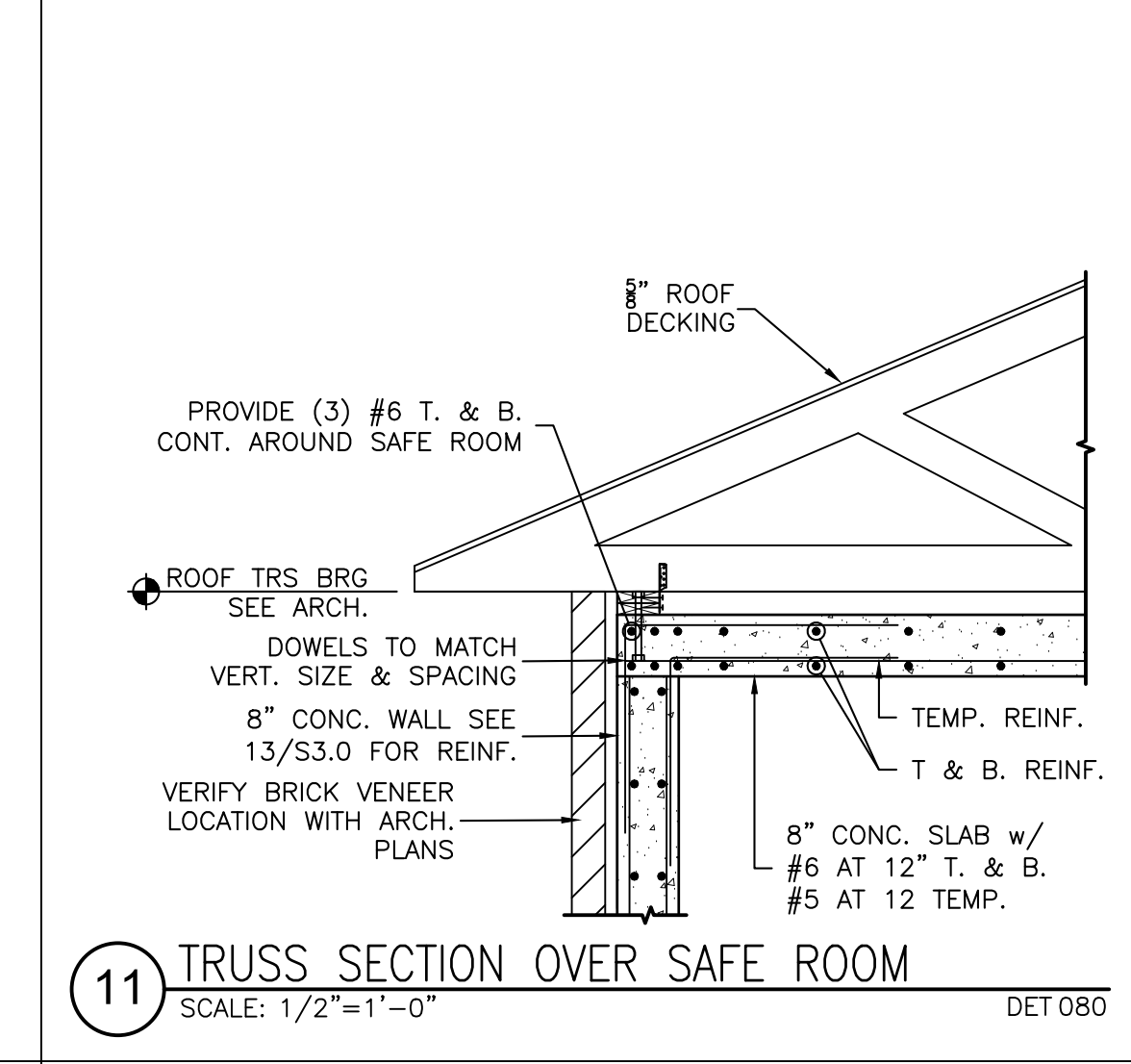
8 GABLE ROOF SECTION  
 SCALE: 1/2"=1'-0" DET 100



9 SECTION  
 SCALE: 1/2"=1'-0" DET 100



10 GABLE ENDWALL SECTION OVER SAFE ROOM  
 SCALE: 1/2"=1'-0" DET 079



11 TRUSS SECTION OVER SAFE ROOM  
 SCALE: 1/2"=1'-0" DET 080

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



# WILBANKS

ARCHITECTURE & ASSOCIATES, LLC

5567 Commander Dr., Ste 105  
 Arlington, Tennessee 38002  
 Phone: 901-867-5220  
 Fax: 901-867-3331  
 Website: www.wilbanksaa.com

EAST SIDE GARDENS ARCHITECTURAL SITE PLAN

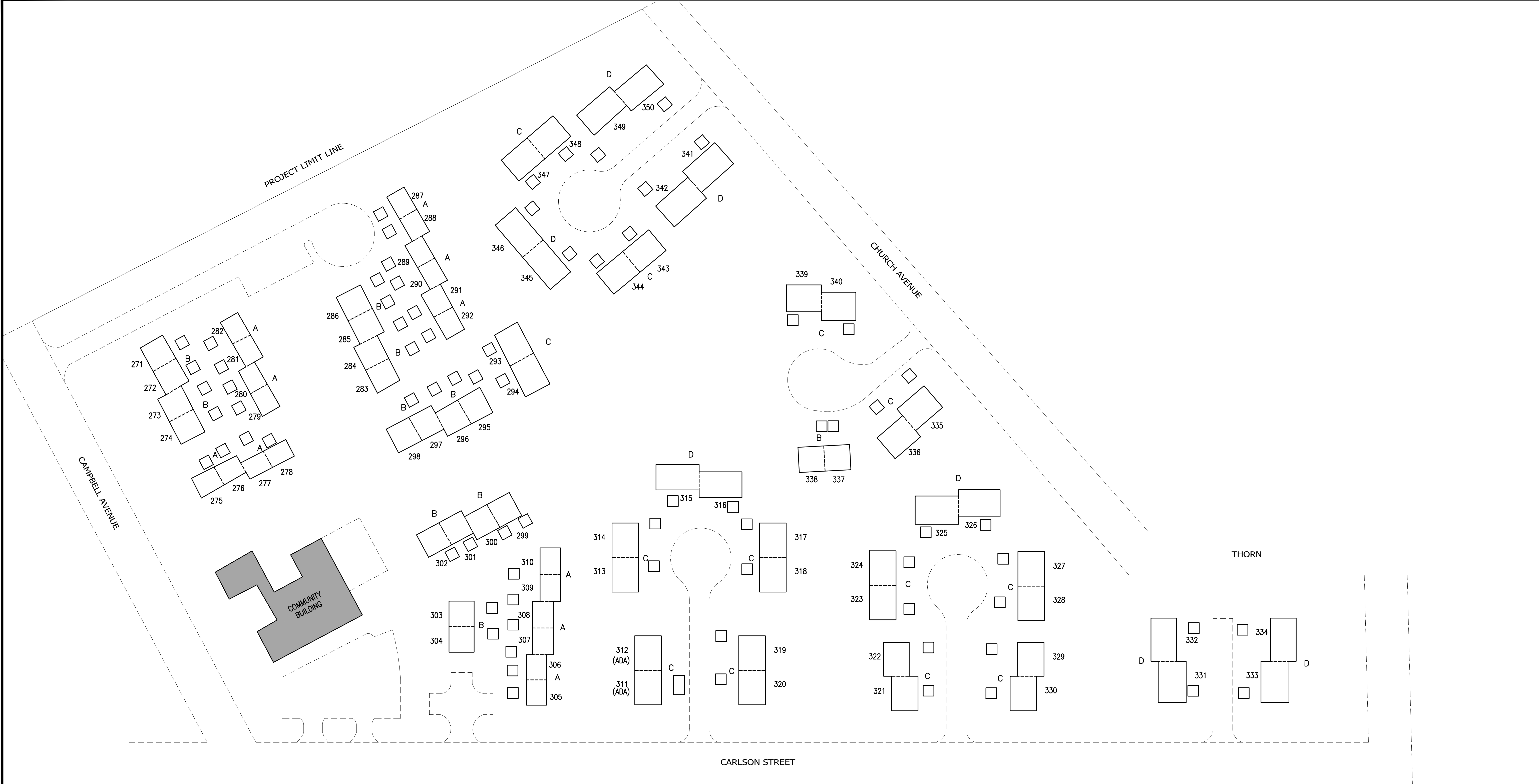
NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:

**AS-01**

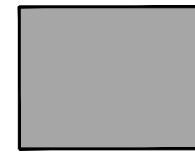
PROJECT:

WAA: 1314-33



1B EAST SIDE GARDENS-SITE PLAN  
 SCALE: NTS

SITE PLAN IS SCHEMATIC AND USED FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS.



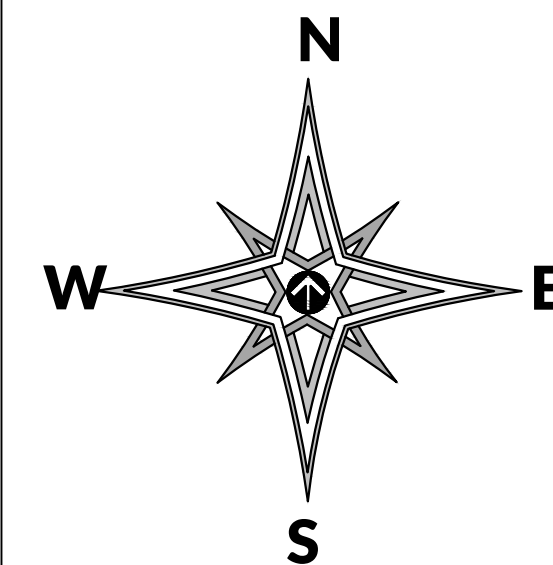
**INCLUDED IN THE SCOPE OF THIS PROJECT**

**GENERAL NOTES**

- DO NOT SCALE DRAWINGS. DIMENSIONS SHOWN IN PLANS ARE FROM ORIGINAL DESIGN DRAWINGS AND ARE SHOWN FOR CONTRACTOR BENEFIT IN ESTIMATING ONLY. FIELD VERIFY ALL EXISTING CONDITIONS IN AREA OF WORK. IF THERE ARE QUESTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE CLARIFICATION FROM THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
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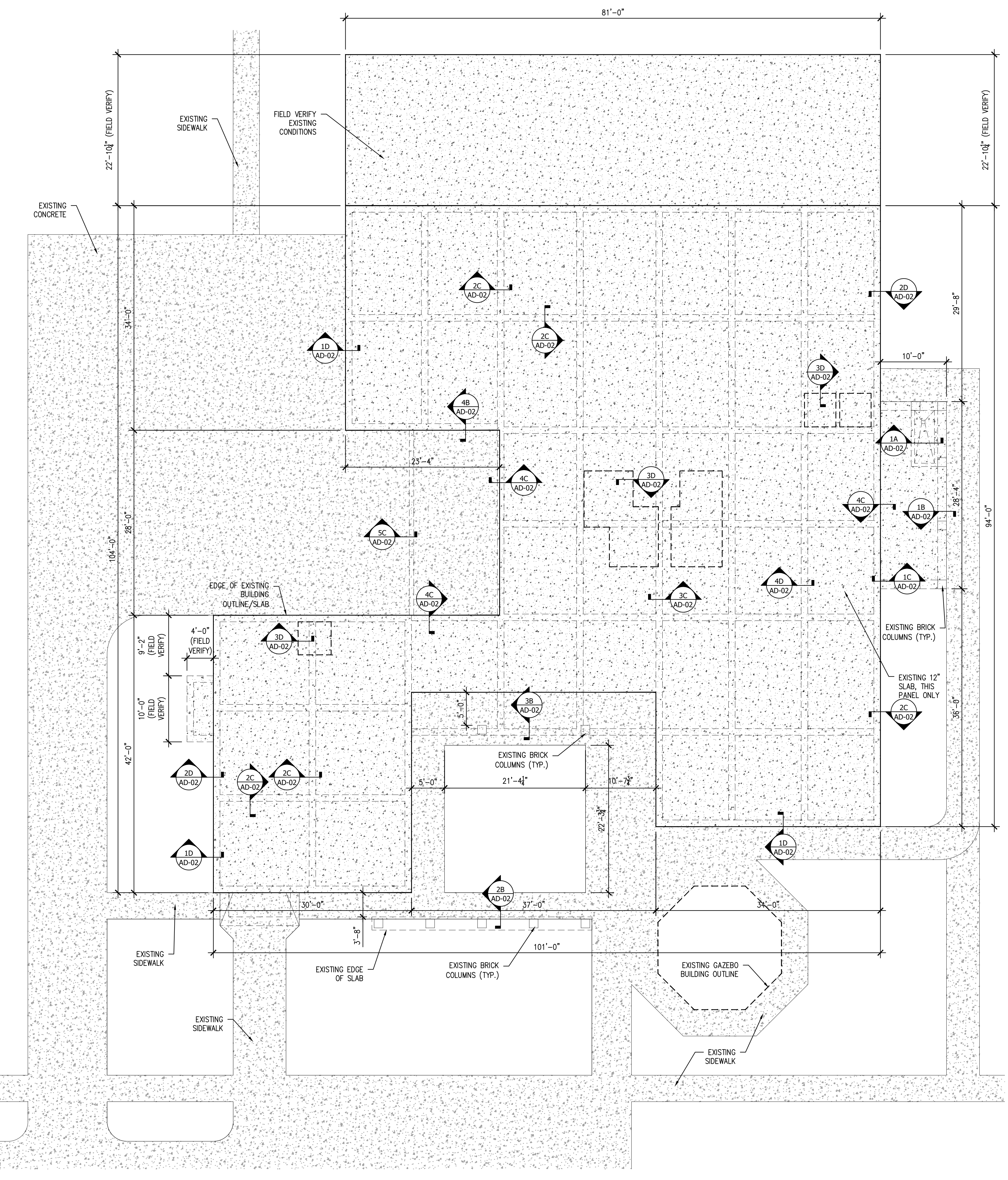
**SHEET NOTES**

- SEE 1B ON THIS SHEET FOR SHADED BUILDING IN THE SCOPE OF THIS PROJECT.



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

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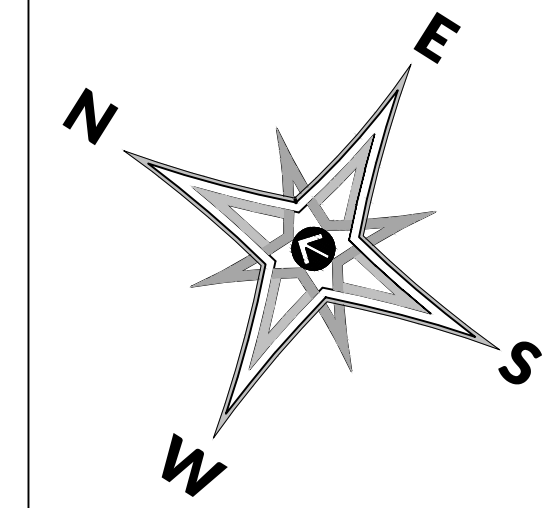
1A EXISTING FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

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**GENERAL STRUCTURAL NOTES**

- FOUNDATIONS ARE DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 2,000 PSF TO BE VERIFIED BEFORE CONSTRUCTION
- BOTTOM OF ALL FOOTINGS SHALL BEAR INTO NATURAL UNDISTURBED SOIL OR ENGINEERED FILL A MINIMUM OF 18" BELOW FINISHED GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EARTHWORK DOWN TO 18" BELOW FINISHED GRADE IN HIS BASE BID.
- SITE SHALL BE CLEARED OF ALL TOP SOIL, FILL, RUBBLE, ETC AND SUBGRADE SOILS SHALL BE SCARIFIED AND RECOMPACTED TO 95% STANDARD PROCTOR. ANY REQUIRED FILL SHALL BE PLACED UNDER THE BUILDING TO OBTAIN A COMPACTION OF 95% STANDARD PROCTOR AT OR SLIGHTLY ABOVE OPTIMUM.
- CONCRETE SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH
- REINFORCING IN ALL CONCRETE FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS
- LAP ALL STEEL 30 BAR DIAMETER WITH 18" MINIMUM AT SPLICES
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- STRESS GRADE SAWN LUMBER SHALL CONFORM TO NATIONAL SPECIFICATIONS FOR KILN DRIED NO.2 SOUTHERN PINE WITH ALLOWABLE STRESS VALUES.
- USE LIGHT GAGE JOIST HANGERS AND FRAMING ANCHORS - 16 OR 18 GA GALV STEEL SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORT.
- TRUSSES SHALL CONFORM TO DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES
- TRUSSES SHALL BE DESIGNED SUCH THAT THE DEFLECTION IS A MINIMUM OF 240/L
- ALL TRUSSES SHALL BE ANCHORED TO THE WOOD STUD WALLS BELOW WITH HURRICANE ANCHORS
- ALL TEMPORARY & PERMANENT BLOCKING, BRIDGING BRACING, ETC SHALL BE INDICATED BY THE TRUSS DESIGN ENGINEER & SHALL BE IN CONFORMANCE WITH COMMENTARY & RECOMMENDATIONS FOR HANDLING, INSTALLING, & BRACING METAL PLATE CONNECTED WOOD TRUSSES.
- INSTALL 3/4" EXTERIOR GRADE PLYWOOD DECKING TO ROOF TRUSS/RAFTER. NAIL ALL DECKING EDGES 2" OC W/ #10 NAILS.



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

03/14/2024  
DATE: SSP  
DRAWN BY: SOW  
DESIGNER: SOW  
CHECKED BY: SOW

REGISTERED ARCHITECT  
STEPHAN WILBANKS  
License Number 11222  
STATE OF ARKANSAS

WILBANKS

ARCHITECTURE & ASSOCIATES, LLC

5567 Commander Dr., Ste 105  
Arlington, Tennessee 38002  
Phone: 901-867-3220  
Fax: 901-867-3331  
Website: www.wilbanksaa.com

EXISTING DEMO FOUNDATION PLAN

NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

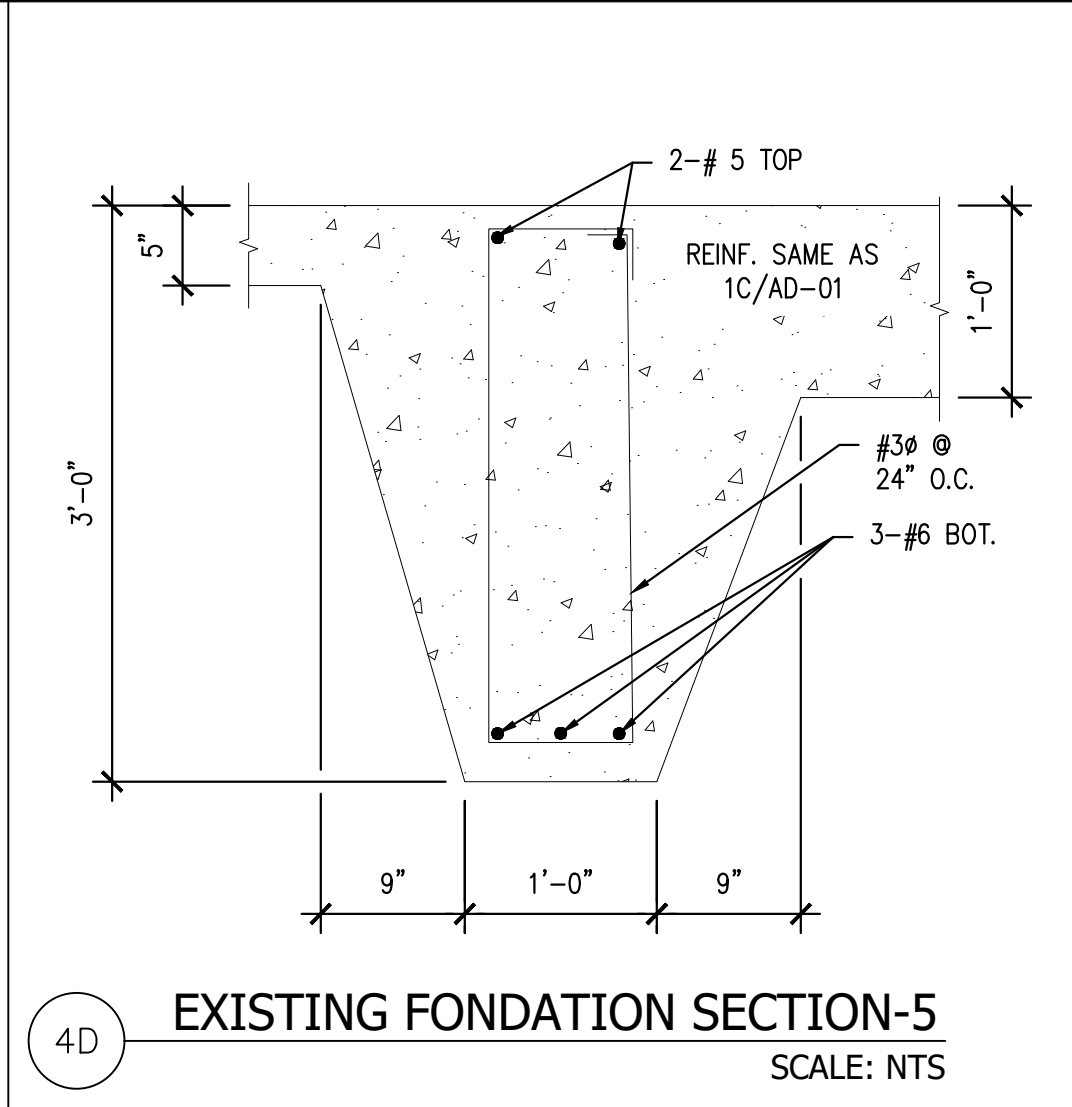
SHEET NUMBER:  
**AD-01**

PROJECT:  
WAA: 1314-33

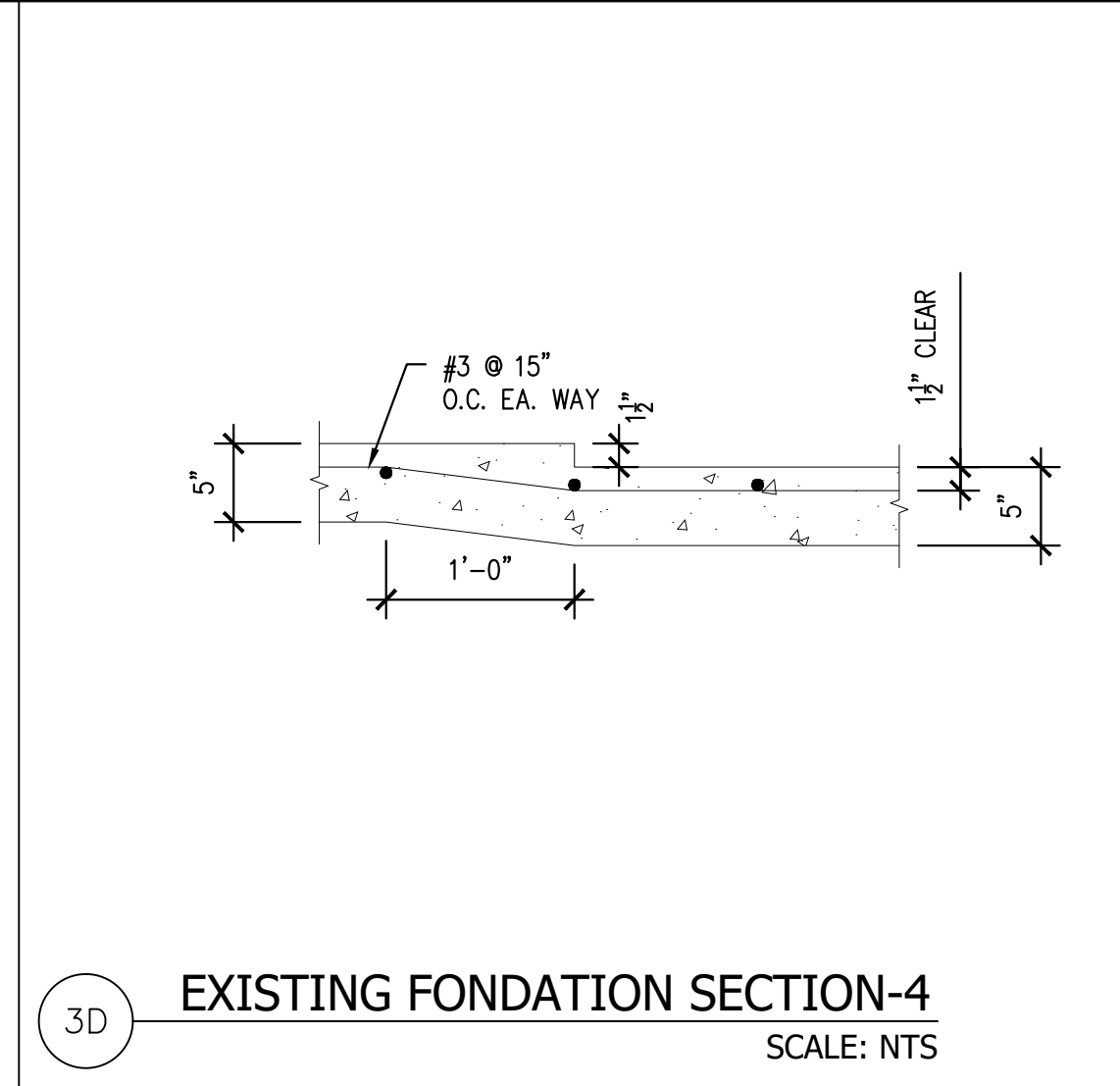


### GENERAL NOTES

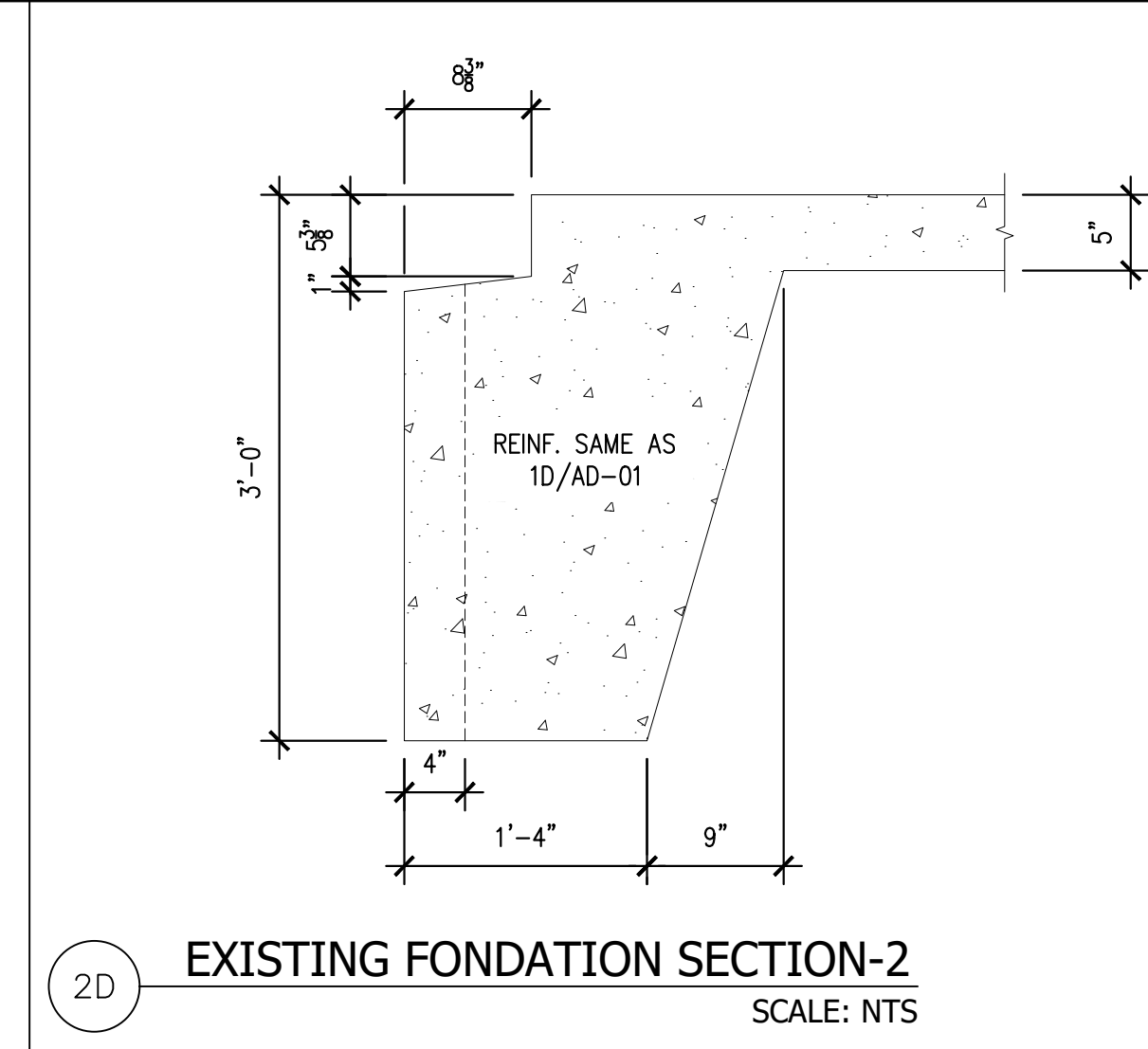
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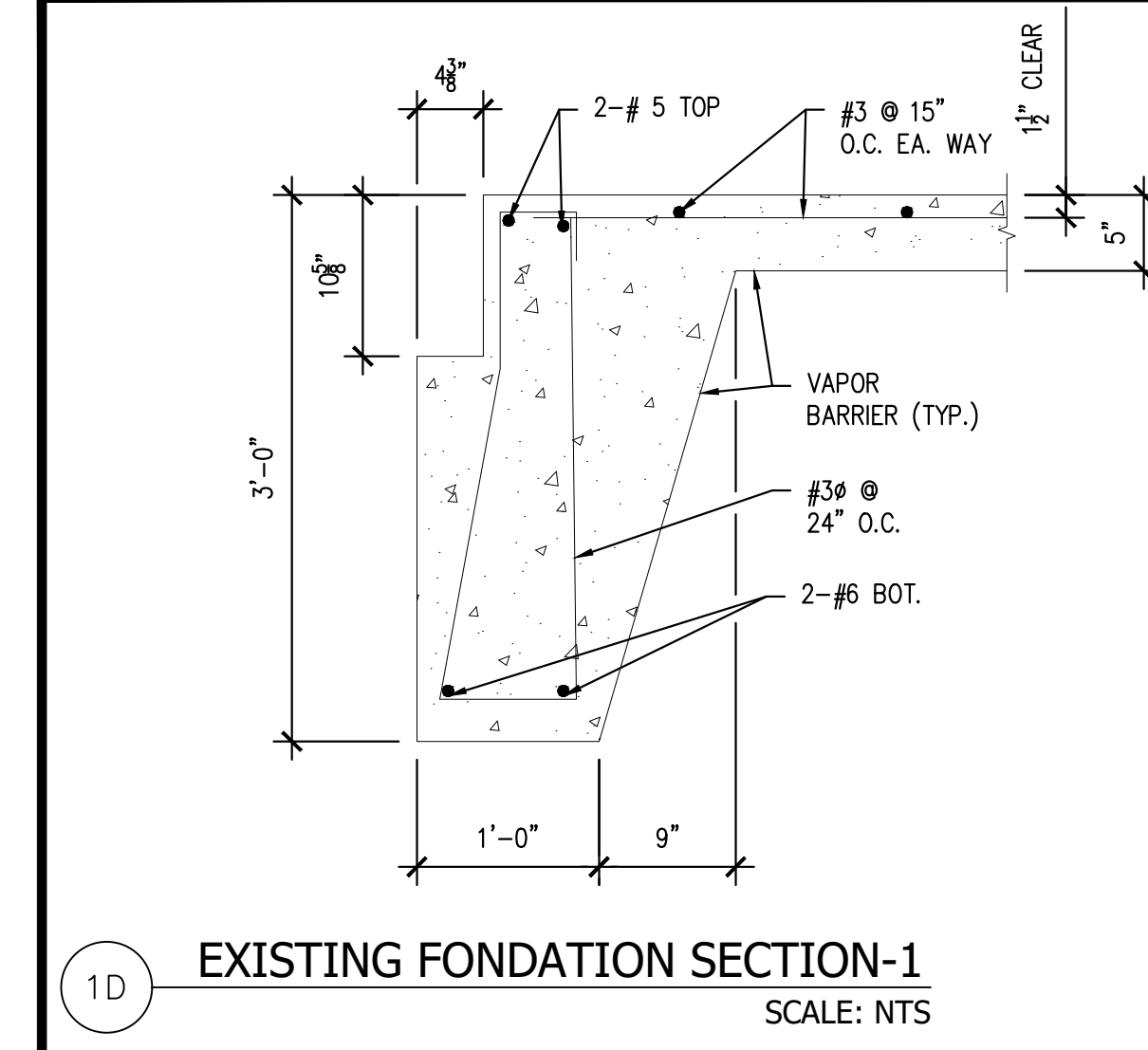
4D EXISTING FONDATION SECTION-5  
SCALE: NTS



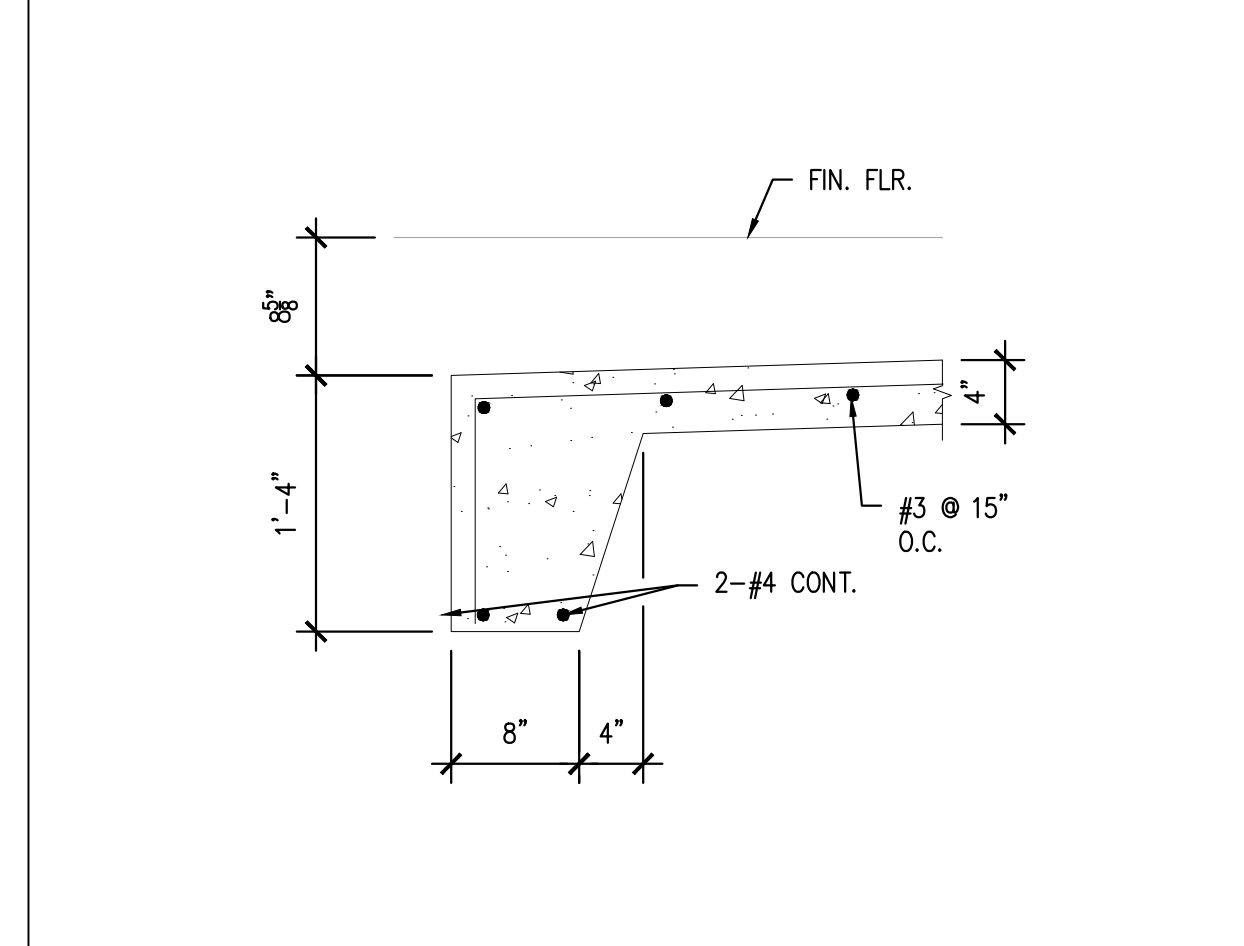
3D EXISTING FONDATION SECTION-4  
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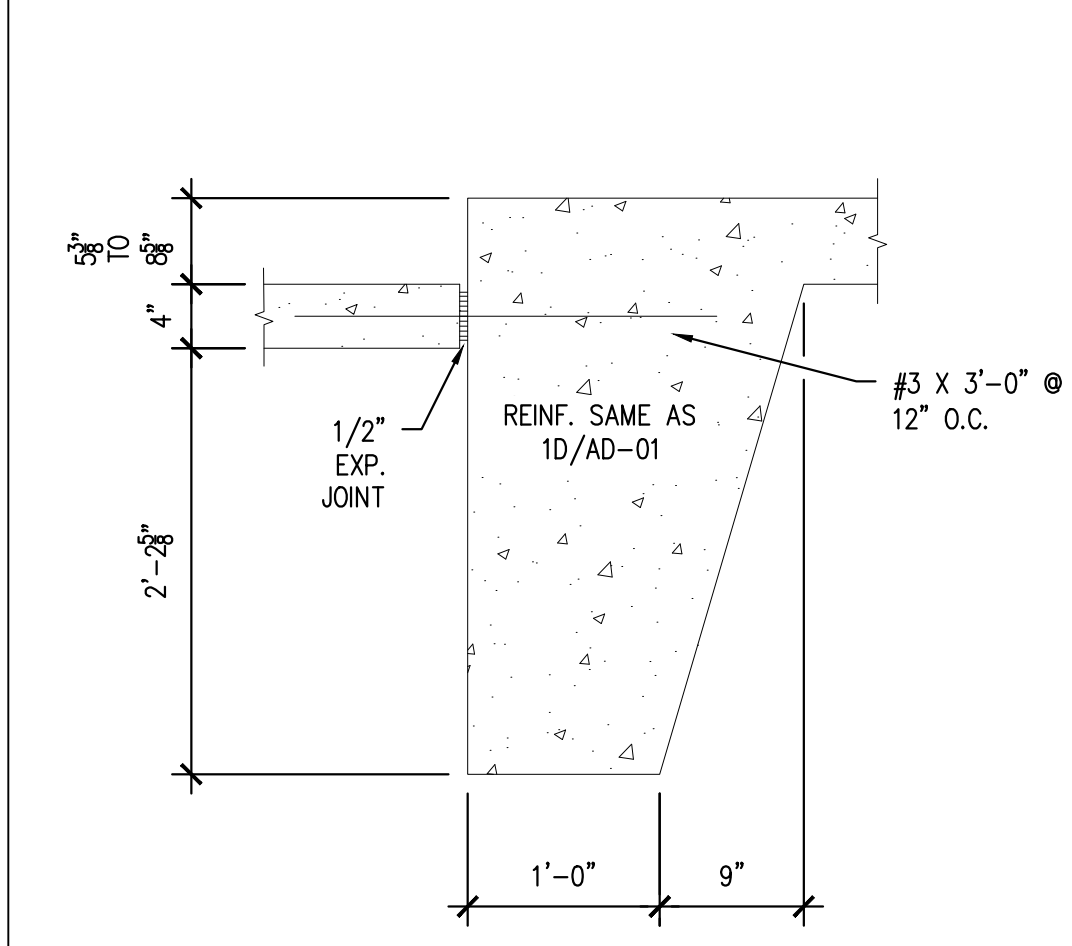
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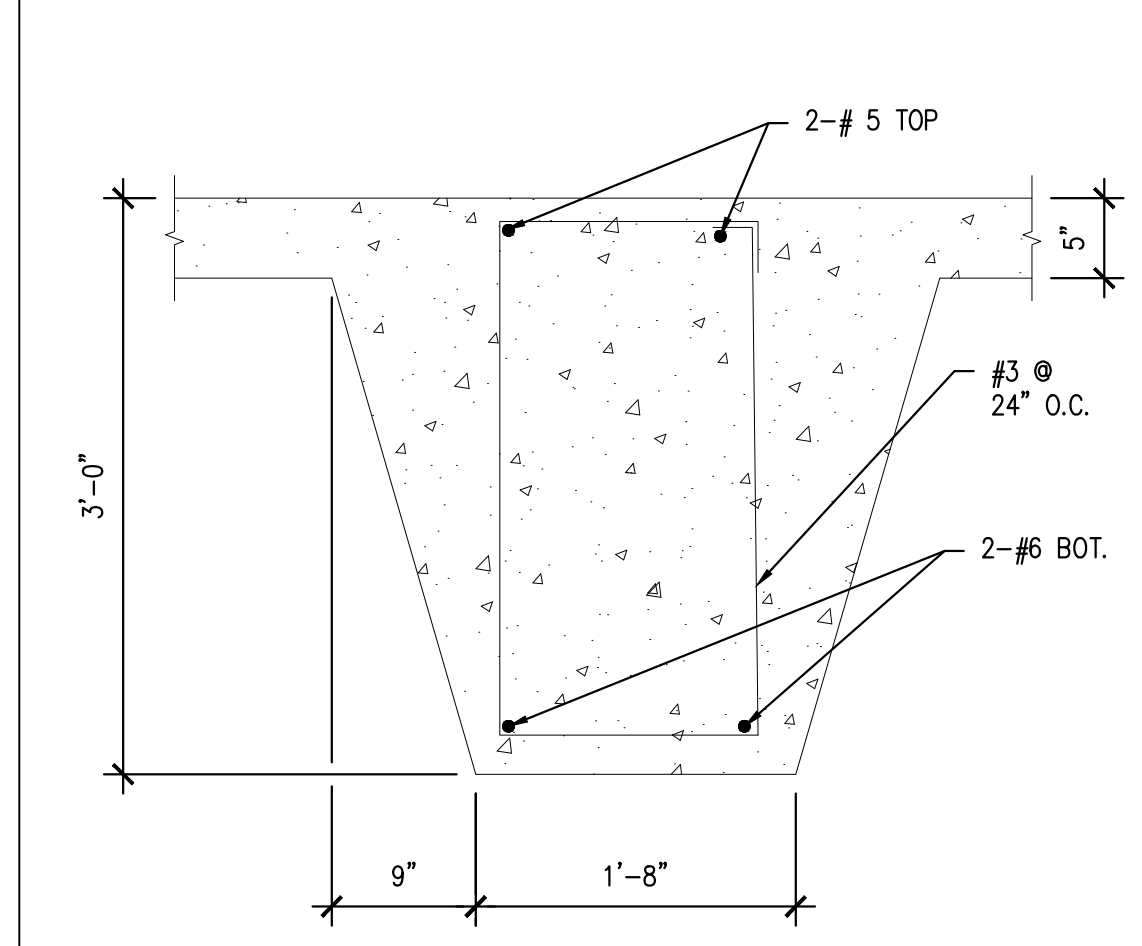
1D EXISTING FONDATION SECTION-1  
SCALE: NTS



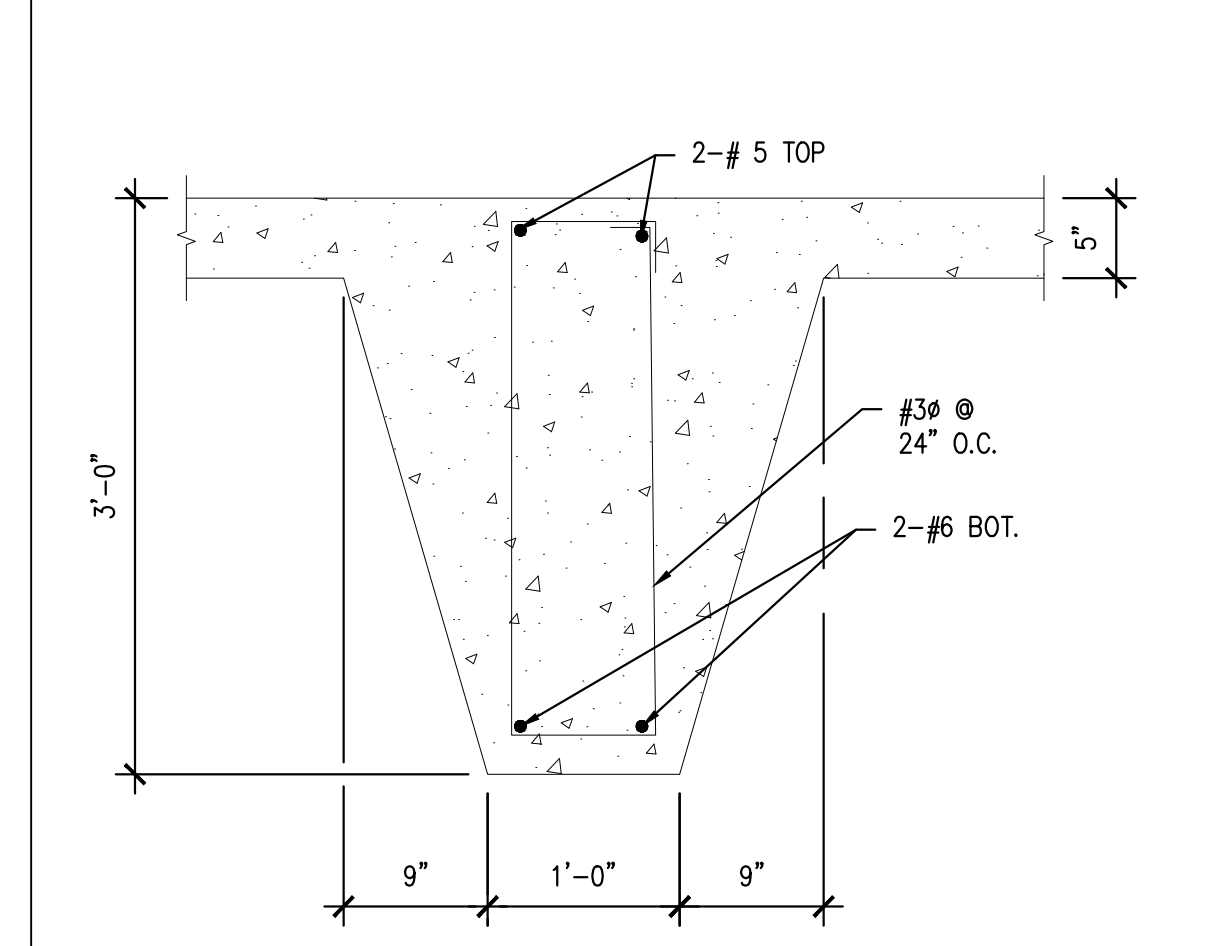
5C EXISTING FONDATION SECTION-9  
SCALE: NTS



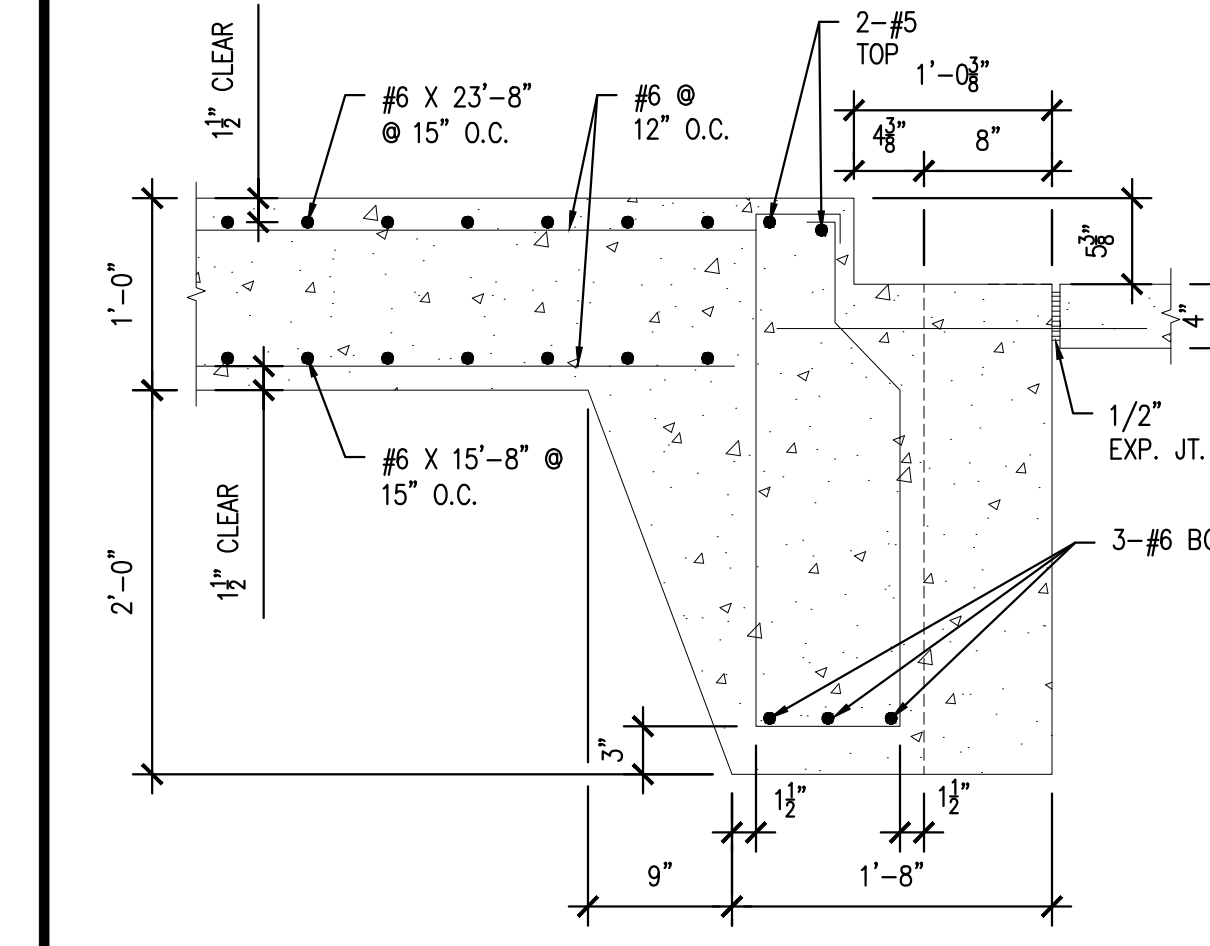
4C EXISTING FONDATION SECTION-8  
SCALE: NTS



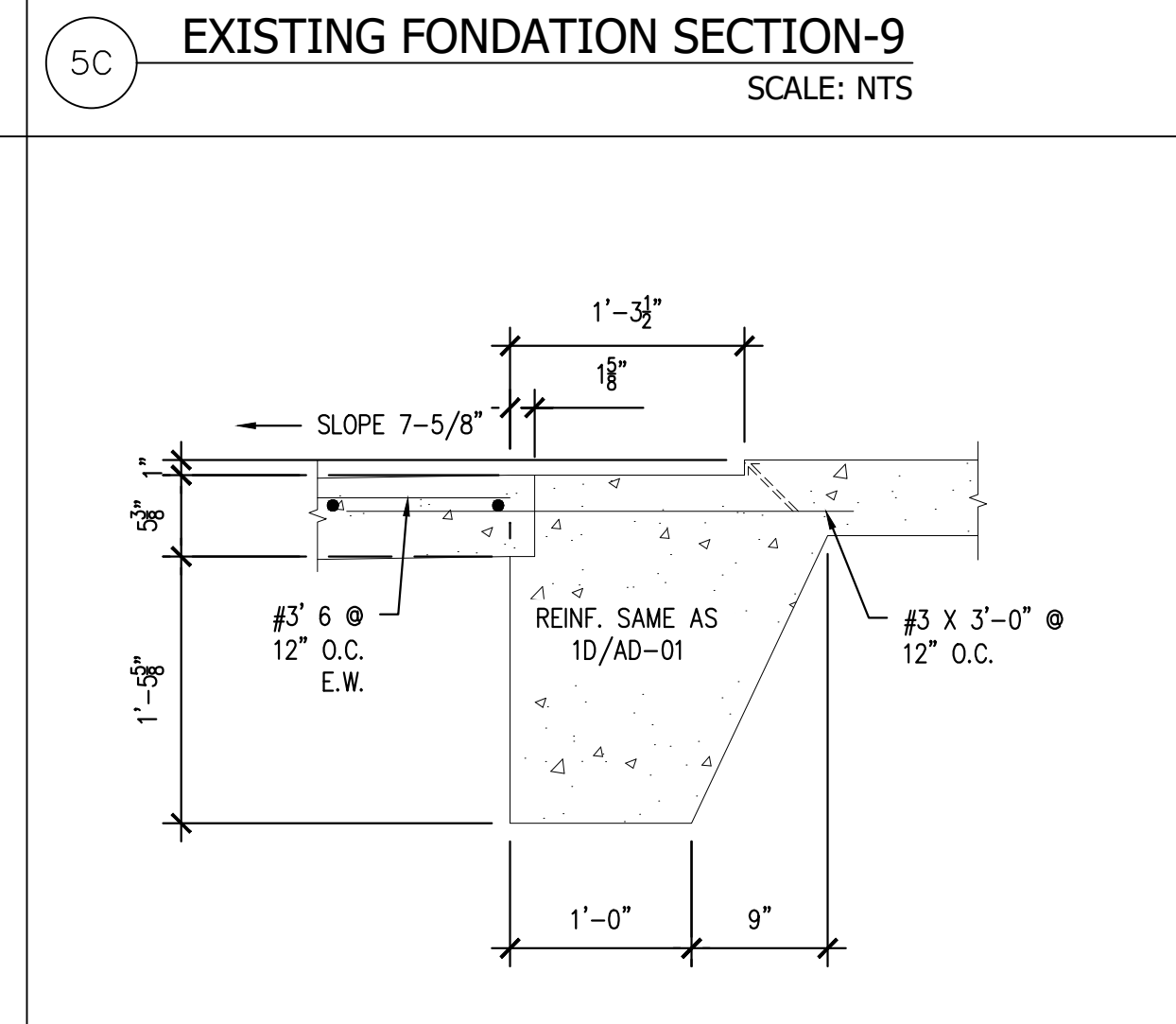
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SCALE: NTS



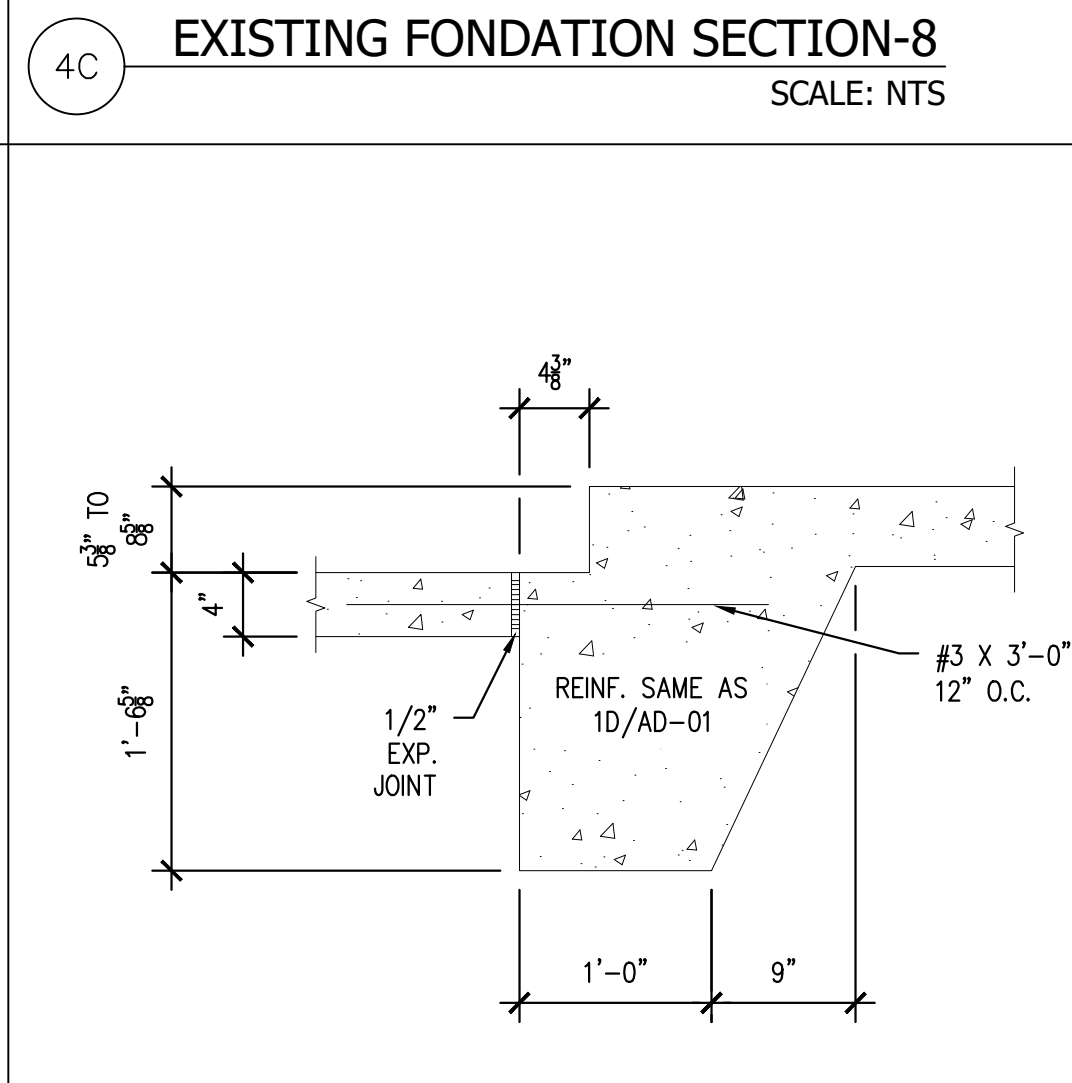
2C EXISTING FONDATION SECTION-7  
SCALE: NTS



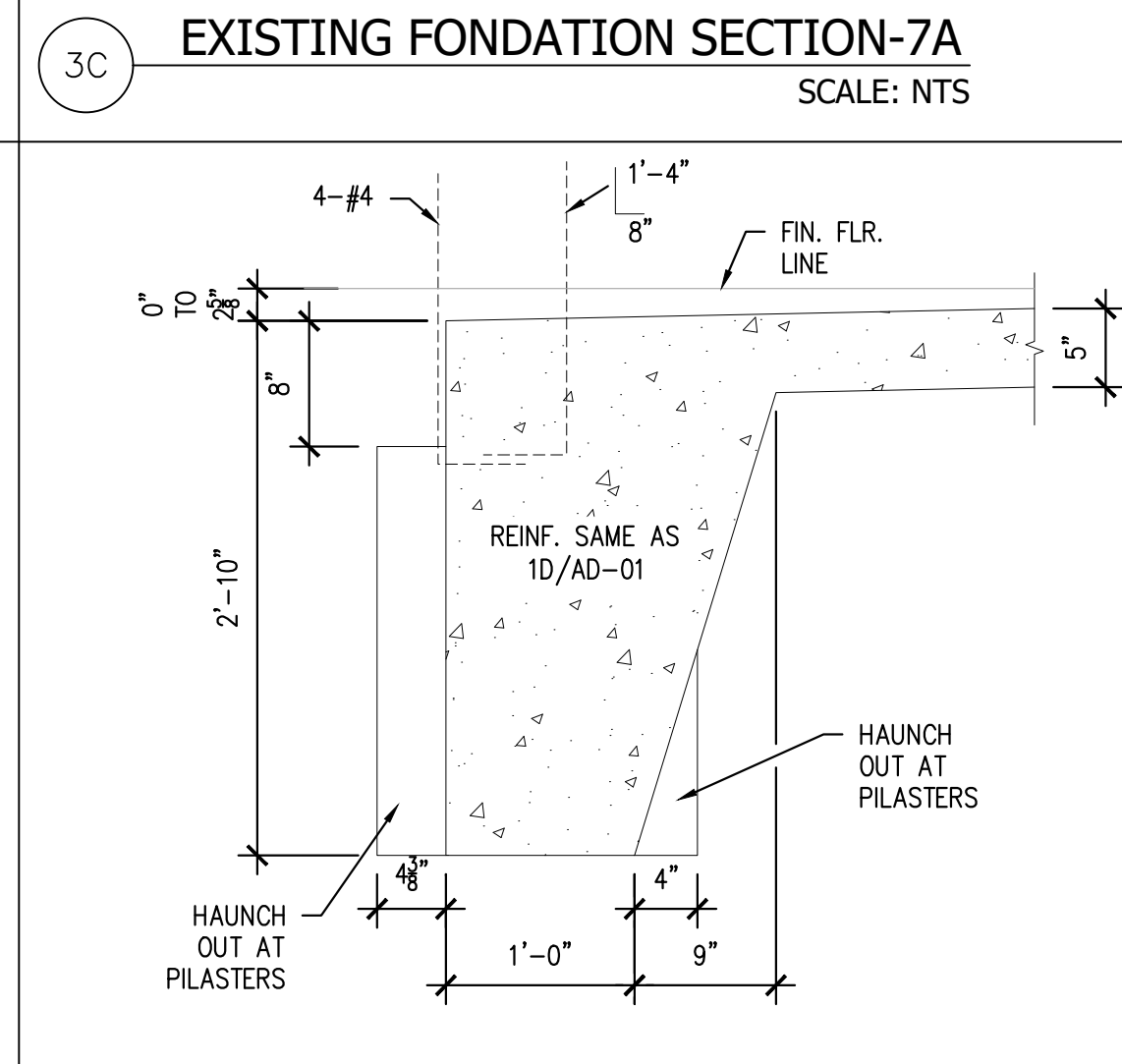
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SCALE: NTS



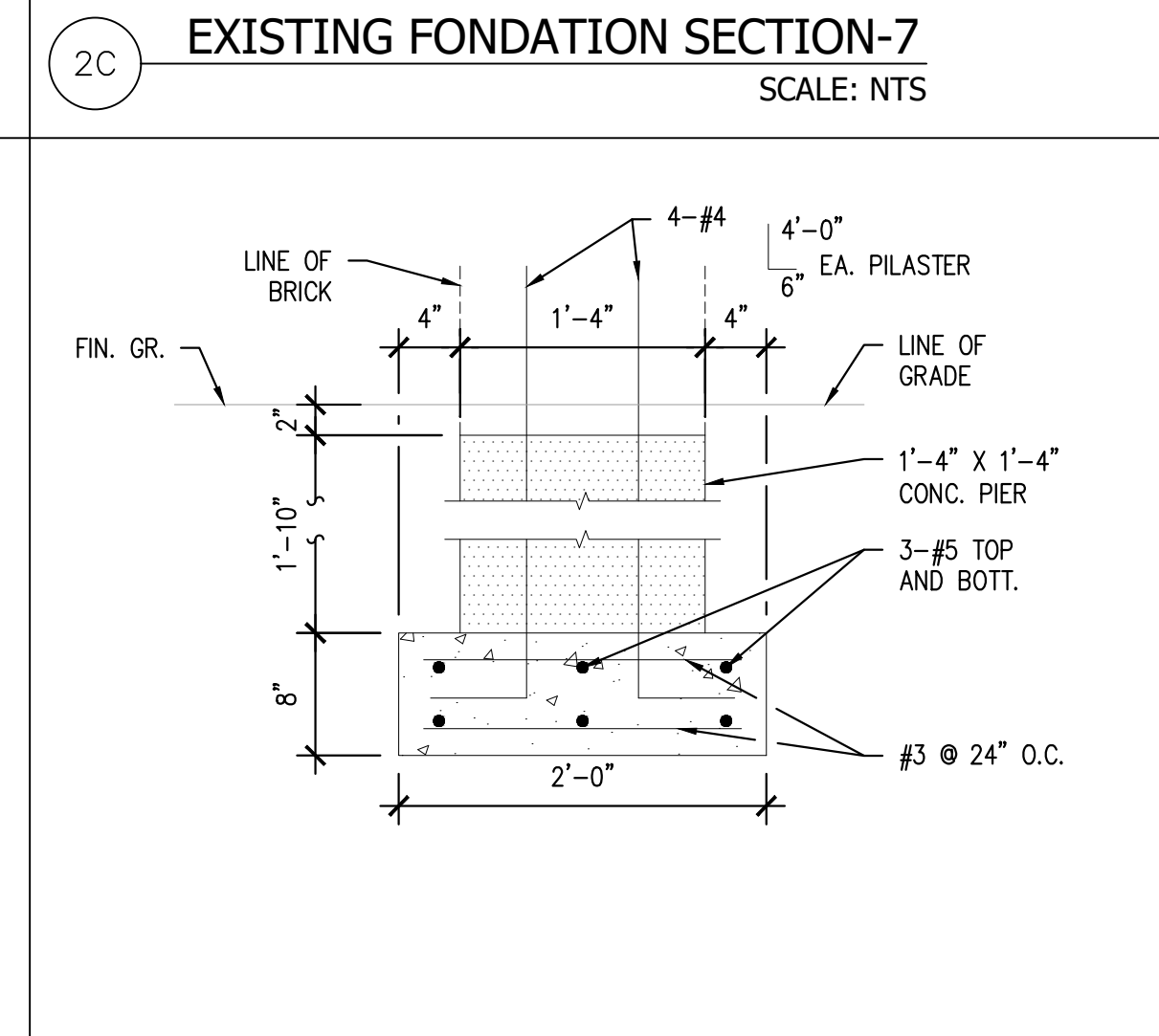
5B EXISTING FONDATION SECTION-14  
SCALE: NTS



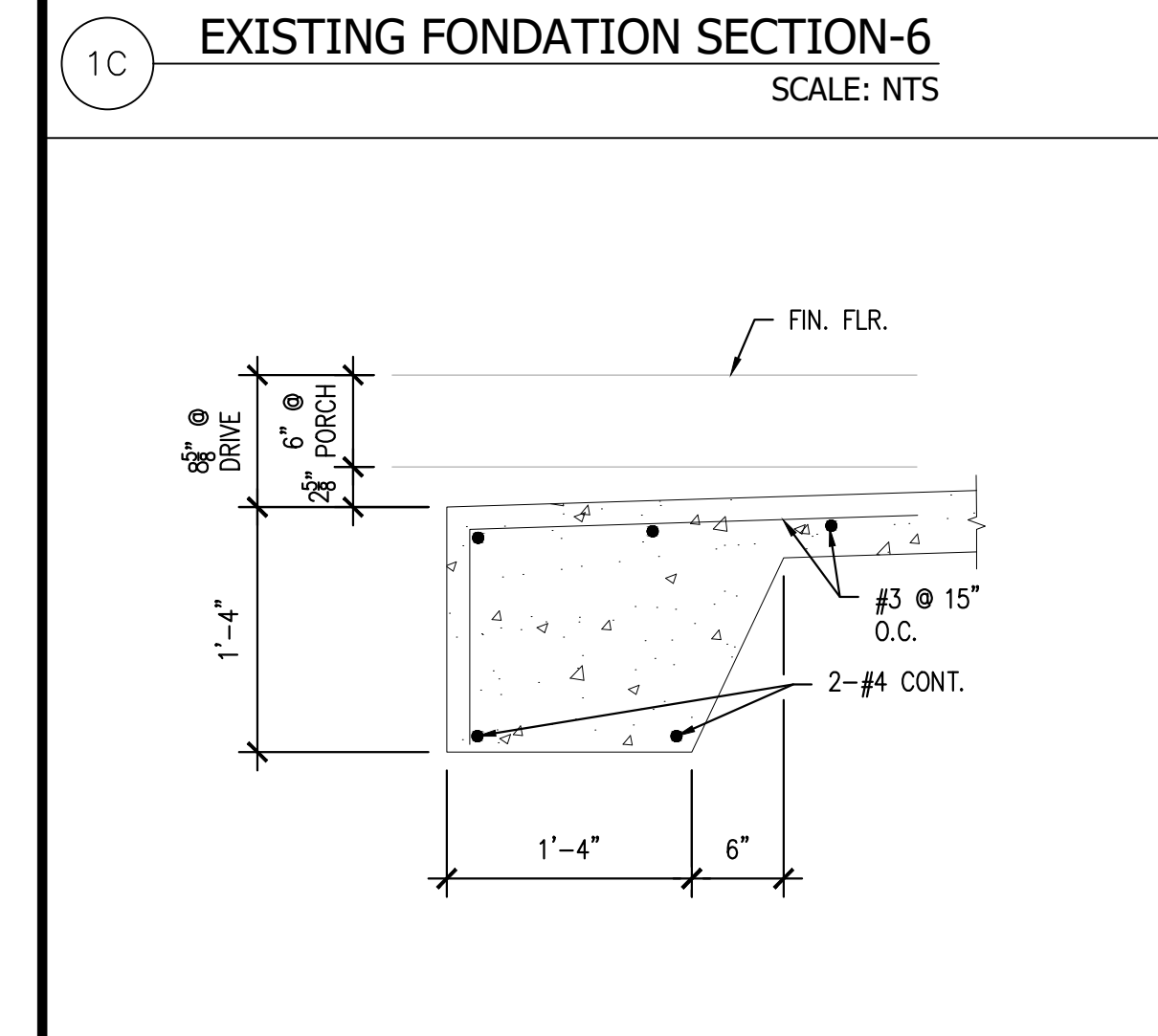
4B EXISTING FONDATION SECTION-13  
SCALE: NTS



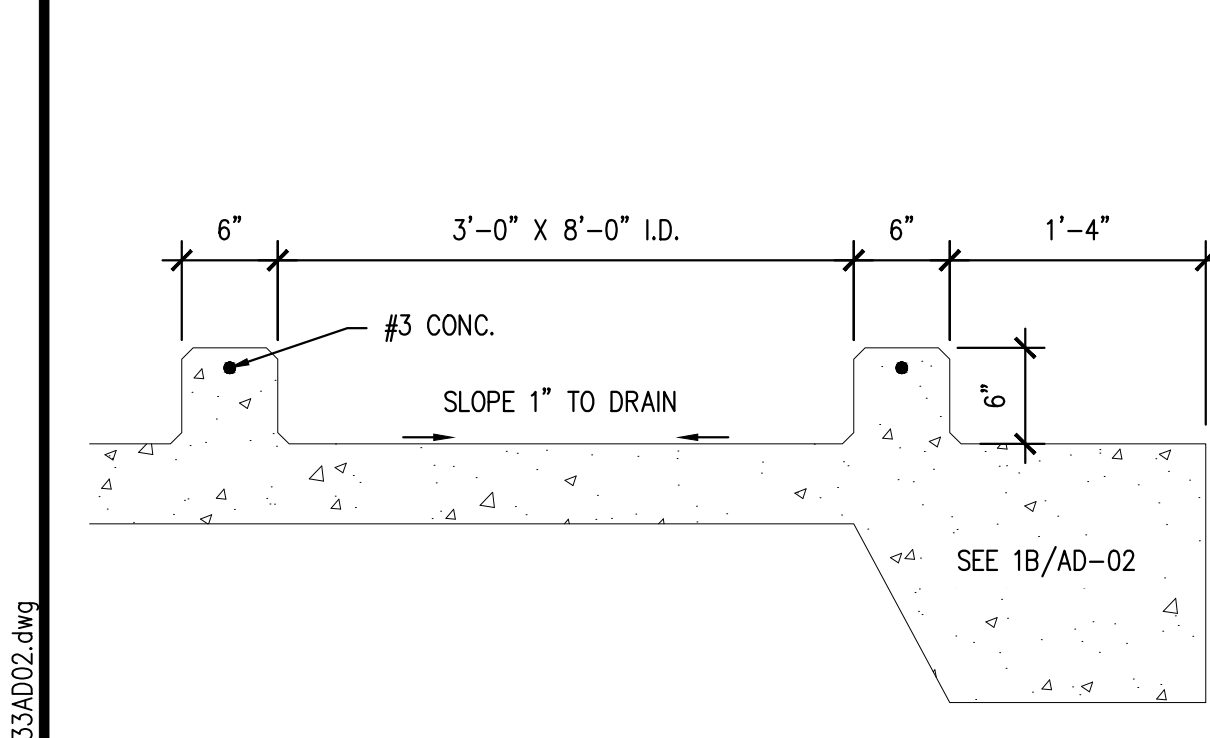
3B EXISTING FONDATION SECTION-12  
SCALE: NTS



2B EXISTING FONDATION SECTION-11  
SCALE: NTS



1B EXISTING FONDATION SECTION-10  
SCALE: NTS



1A SECTION AT CAN WASH AREA  
SCALE: NTS

REVISION		
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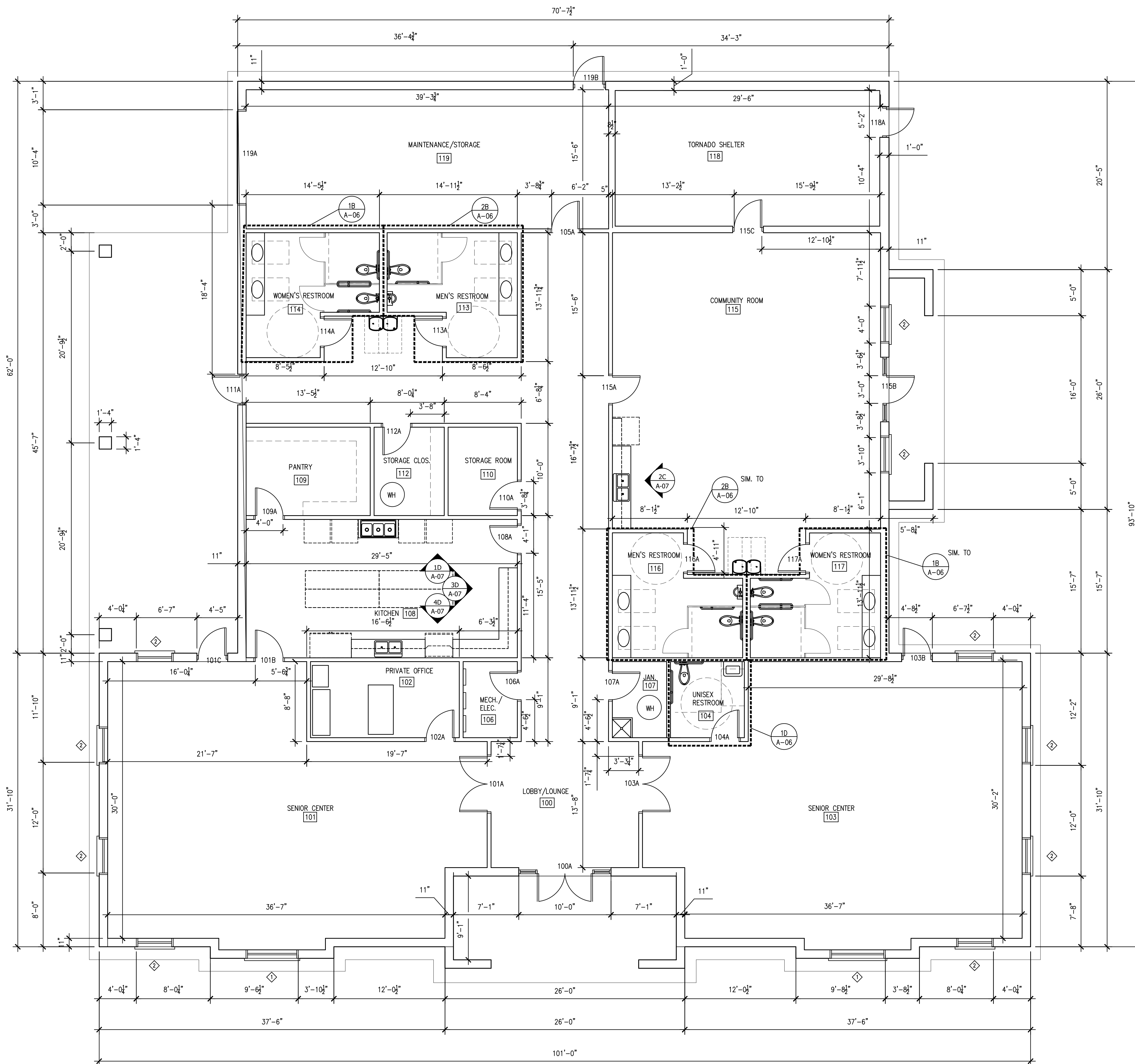


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1A

**RENO FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

© 2024 WILBANKS ARCHITECTURE & ASSOCIATES

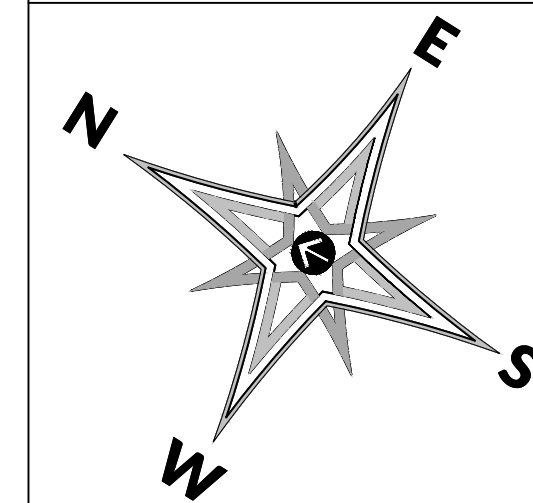


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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

03/14/2024

DATE: SSP

DRAWN BY: SOW

DESIGNER: SOW

CHECKED BY:



**WILBANKS**  
ARCHITECTURE & ASSOCIATES, LLC

5567 Commander Dr., Ste 105  
Arlington, Tennessee 38002  
Phone: 901-867-3220  
Fax: 901-867-3331  
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**RENO FLOOR PLAN**  
**NEW COMMUNITY BUILDING**  
**TRUMANN HOUSING AUTHORITY**  
**TRUMANN, ARKANSAS**

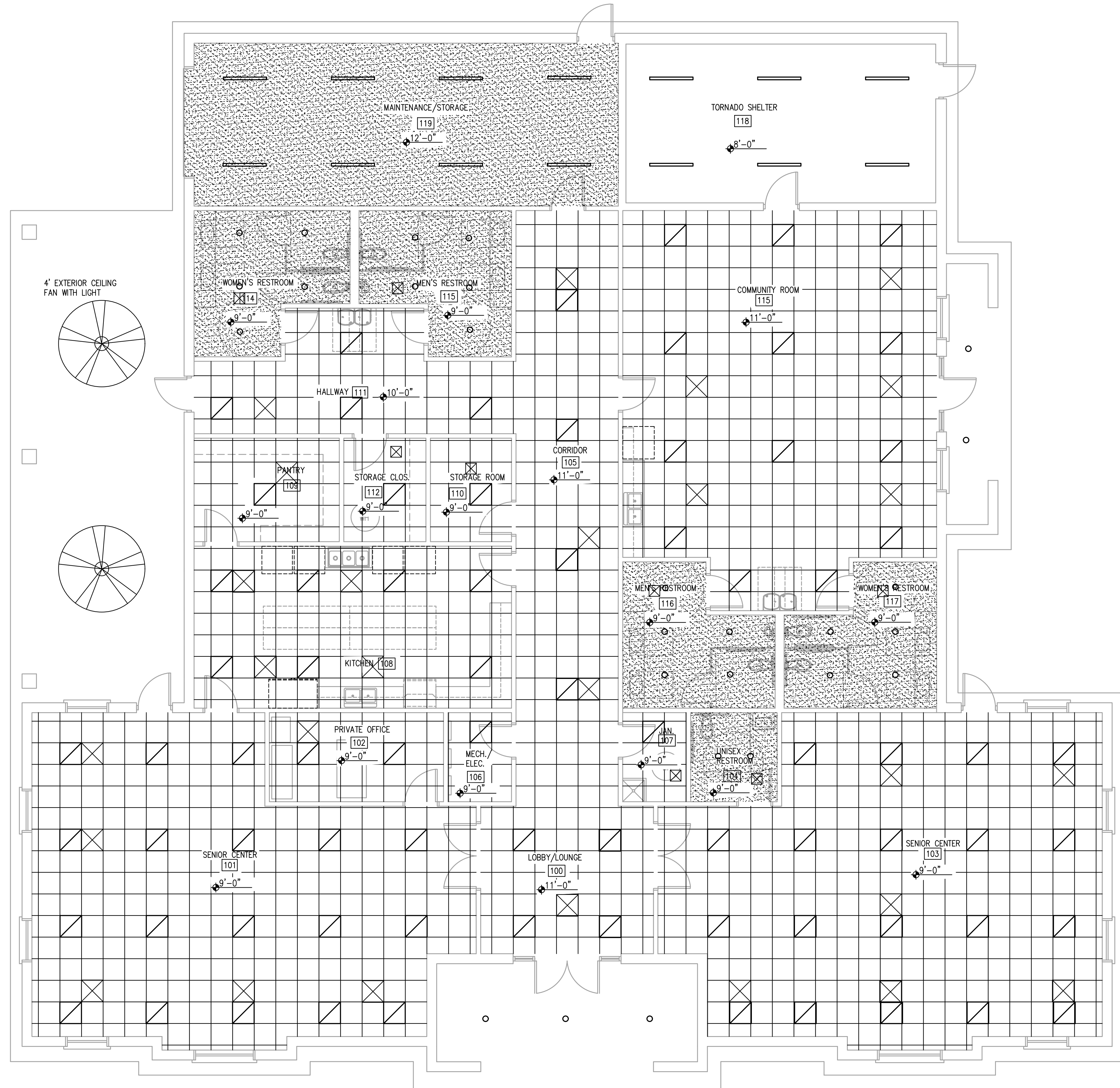
SHEET NUMBER:

**A-01**

PROJECT:

WAA: 1314-33



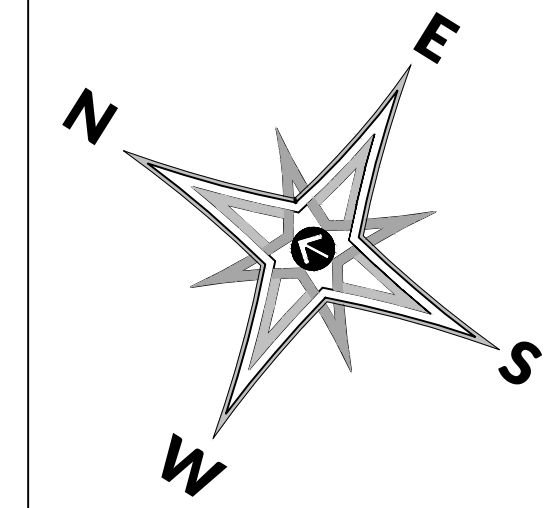


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**SHEET LEGEND**

- 4.5" DOWNLIGHT
- 4'x4' EDGELIT LINEAR FIXTURE
- 48" EDGELIT LINEAR FIXTURE
- EXIST SIGN (RED), COMBINATION
- EXTERIOR EMERGENCY SCOURCE, PHOTOCELL
- (2)-HEAD EMERGENCY EGRESS FIXTURE
- 24" EDGELIT LINEAR FIXTURE
- 4' NARROW STRIP
- RECESSED PERMITER SLOT
- ARCHITECTURAL PENDANT
- 4' RECESSED LINEAR FIXTURE
- ARCHITECTURAL WALLPACK, TYPE 3 DISTRIBUTION
- ARCHITECTURAL DIRECT/INDIRECT WALL SCOURCE
- SUPPLY DIFFUSER
- RETURN/EXHAUST AIR DEVICE
- 2X2 ACOUSTICAL CEILING TILES
- GYP. BOARD CEILING
- EXTERIOR CEILING PLANKS
- SEE ELECTRICAL AND MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.



REVISION		
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DATE: 03/14/2024  
 DRAWN BY: SSP  
 DESIGNER: SOW  
 CHECKED BY: SOW



**WILBANKS**  
 ARCHITECTURE & ASSOCIATES, LLC

5567 Commander Dr., Ste 105  
 Arlington, Tennessee 38002  
 Phone: 901-867-5220  
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 Website: www.wilbanksaa.com

**REFLECTED CEILING PLAN**  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:

**A-02**

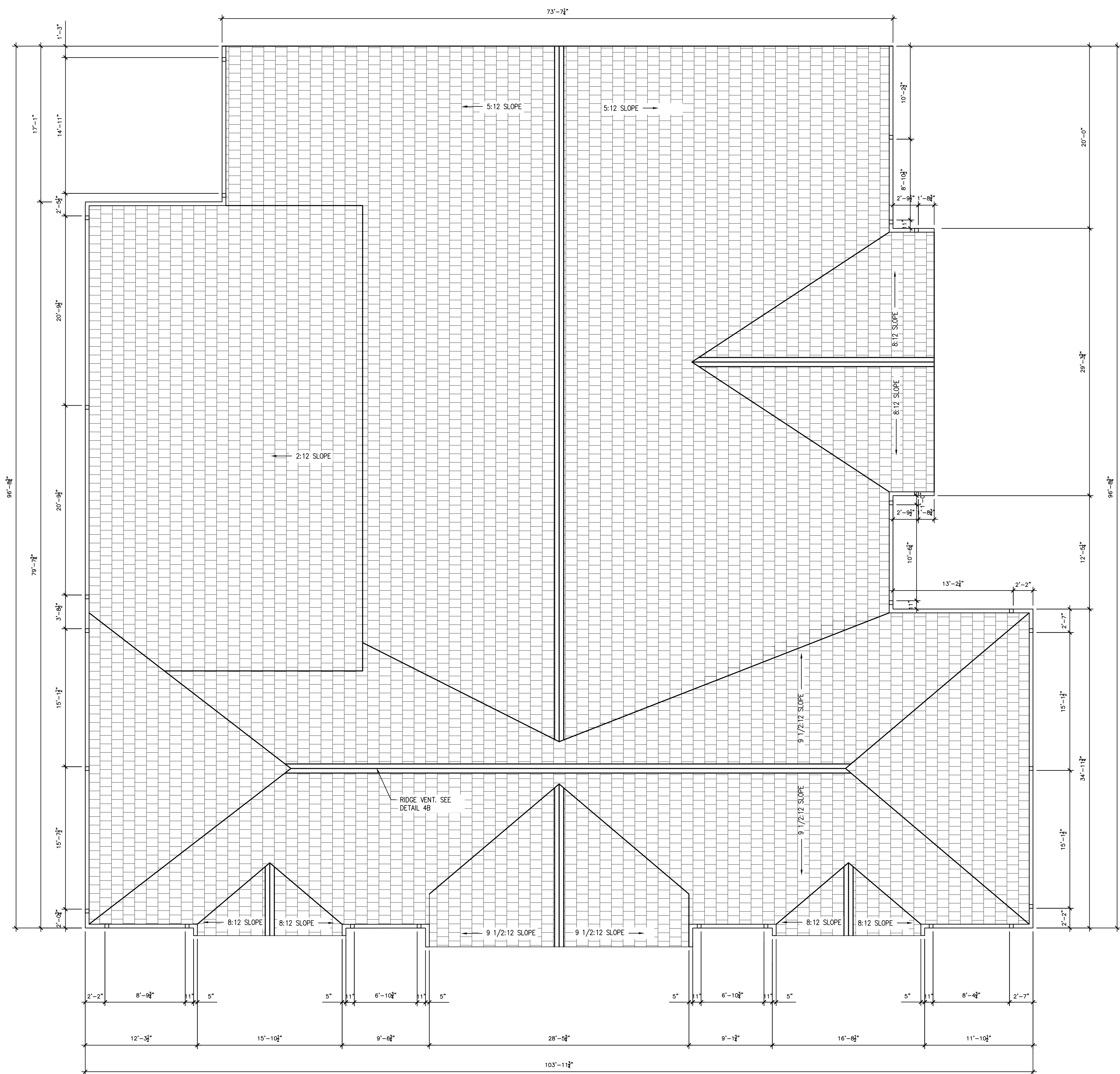
PROJECT:  
 WAA: 1314-33





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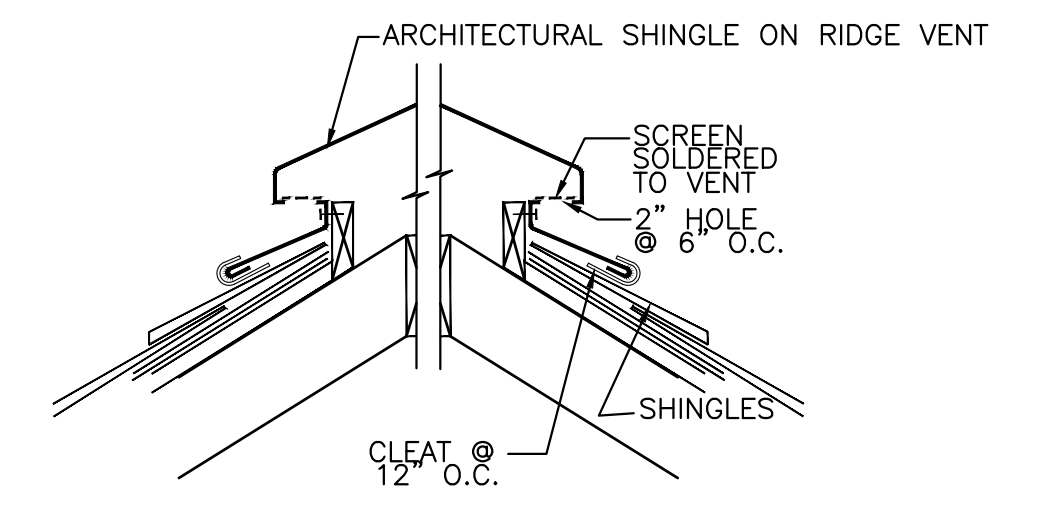
**1A** ROOF PLAN  
SCALE: 3/16" = 1'-0"



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER:  
**A-03**

PROJECT:  
WAA: 1314-33



**4B** RIDGE VENT DETAIL  
SCALE: NTS

DATE: SSP  
DRAWN BY: SOW  
DESIGNER: SOW  
CHECKED BY: SOW



**WILBANKS**  
ARCHITECTURE & ASSOCIATES, LLC

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**ROOF AND FRAMING PLAN**  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

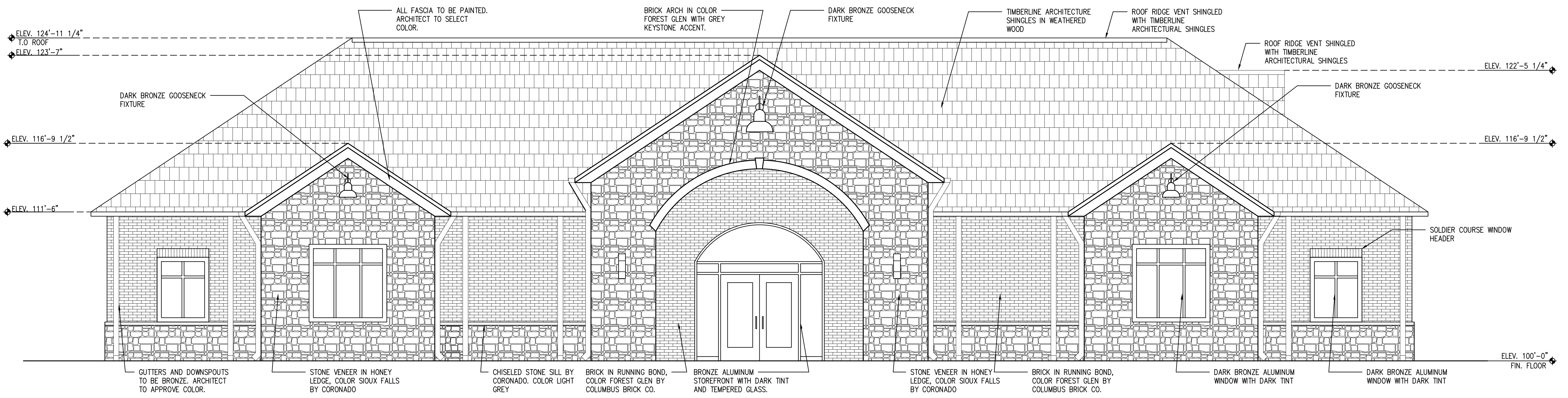


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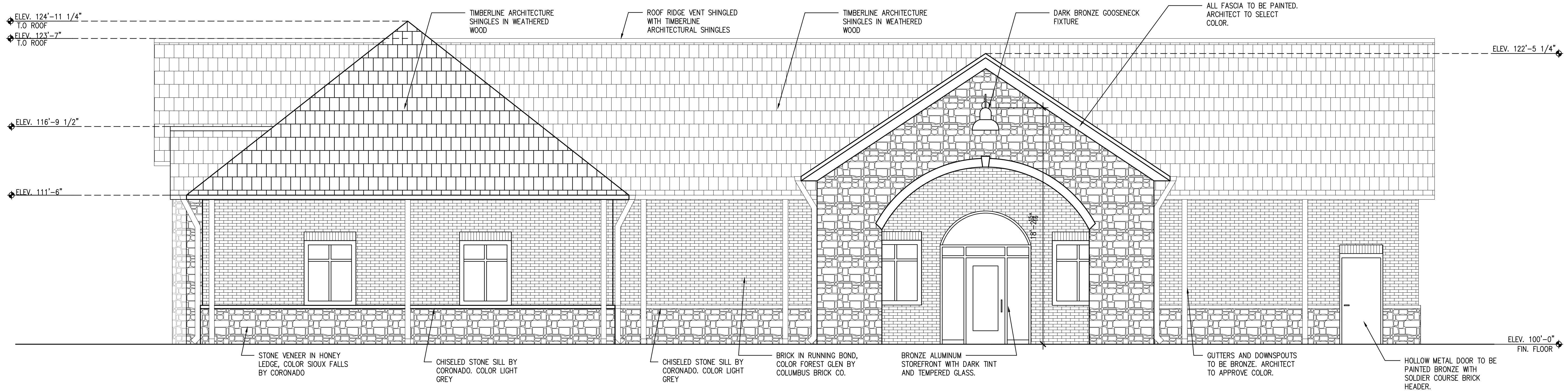
ARCHITECTURE & ASSOCIATES, LLC

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EXTERIOR ELEVATIONS  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS



1C EXTERIOR ELEVATION (FRONT)  
 SCALE: 1/4" = 1'-0"

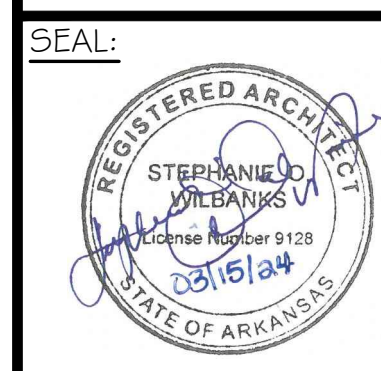


1A EXTERIOR ELEVATION (RIGHT)  
 SCALE: 1/4" = 1'-0"

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

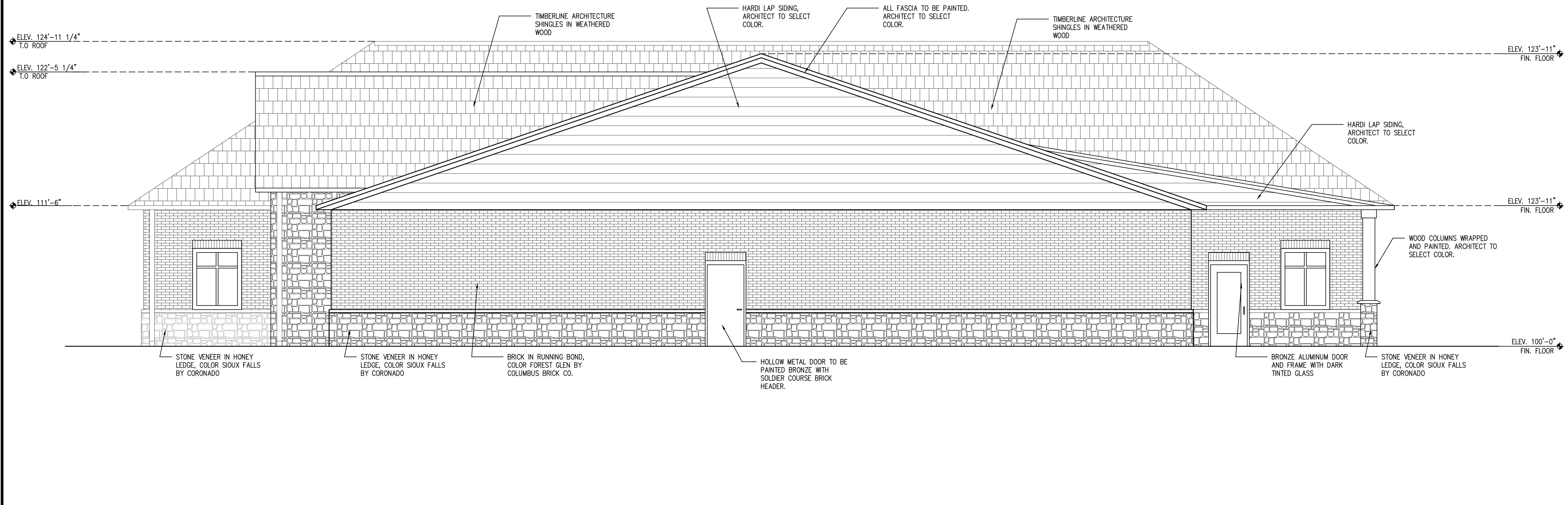


SHEET NUMBER:  
**A-04.1**  
 PROJECT:  
 WAA: 1314-33

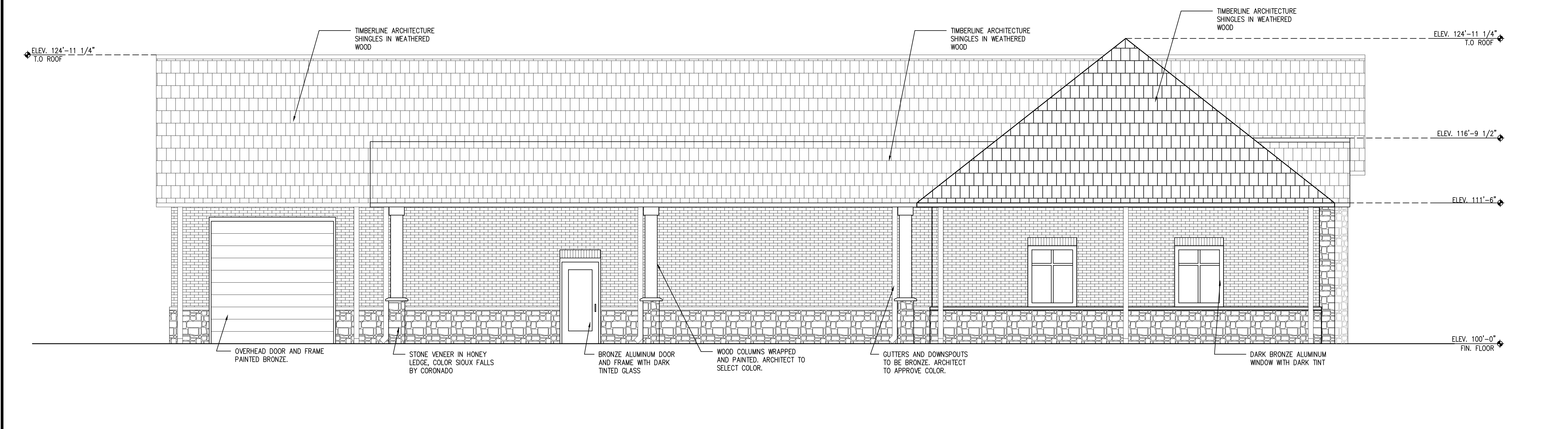


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1C EXTERIOR ELEVATION (REAR)  
 SCALE: 1/4" = 1'-0"



1A EXTERIOR ELEVATION (MAINT. SIDE W/ COVERED PORCH)  
 SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATIONS  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SHEET NUMBER:  
**A-04.2**  
 PROJECT:  
 WAA: 1314-33



**WILBANKS**  
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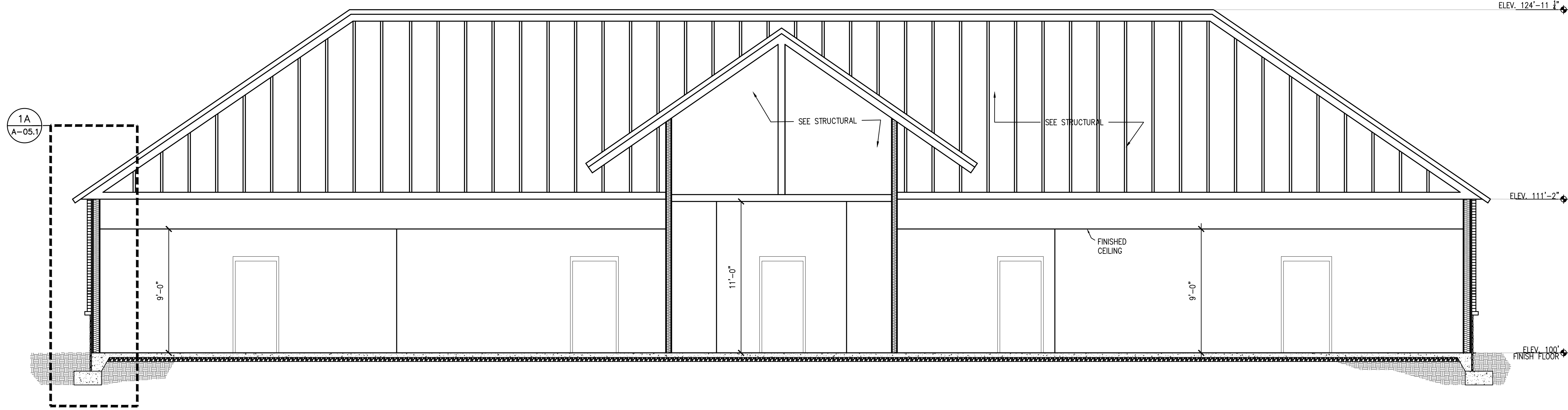
**BUILDING AND WALL SECTIONS**  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

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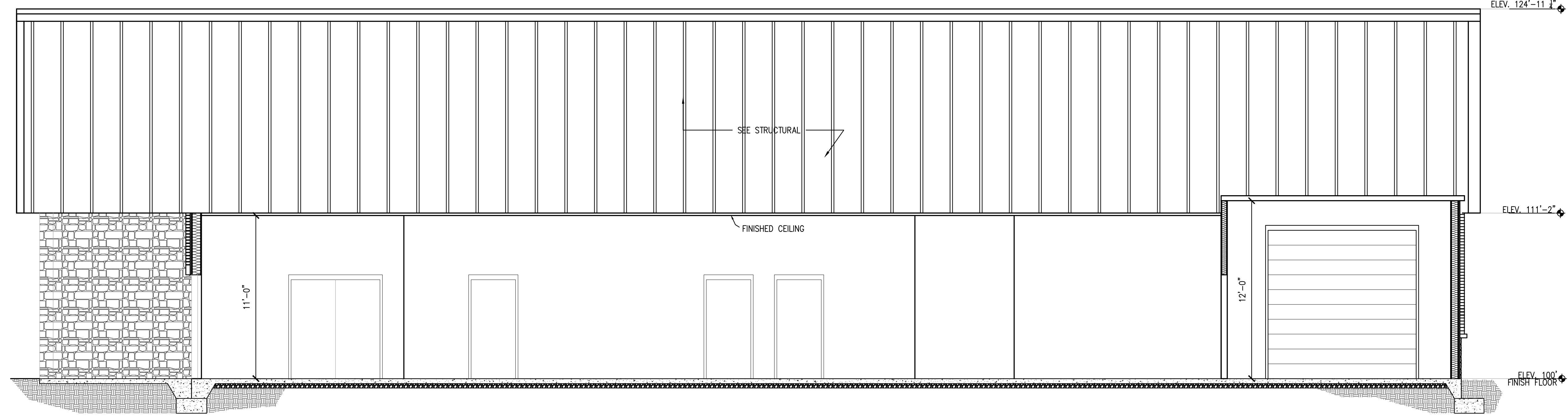
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PROJECT:

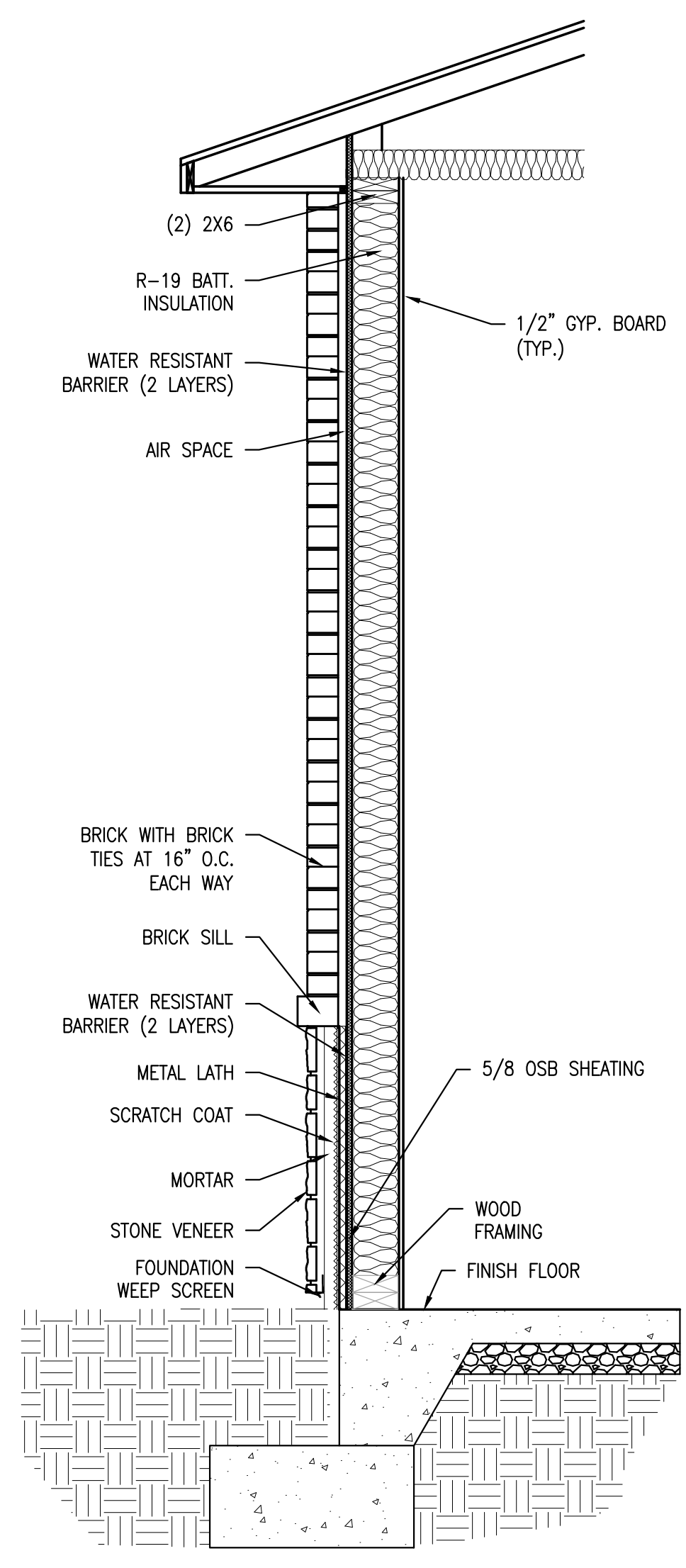
WAA: 1314-33



1C EXTERIOR WALL SECTION  
 SCALE: 3/4" = 1'-0"



2A EXTERIOR WALL SECTION  
 SCALE: 3/4" = 1'-0"



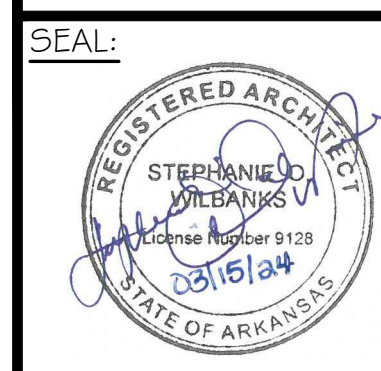
1A EXTERIOR WALL SECTION  
 SCALE: 3/4" = 1'-0"

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



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03/14/2024  
 DATE: SSP  
 DRAWN BY: SOW  
 DESIGNER: SOW  
 CHECKED BY: SOW

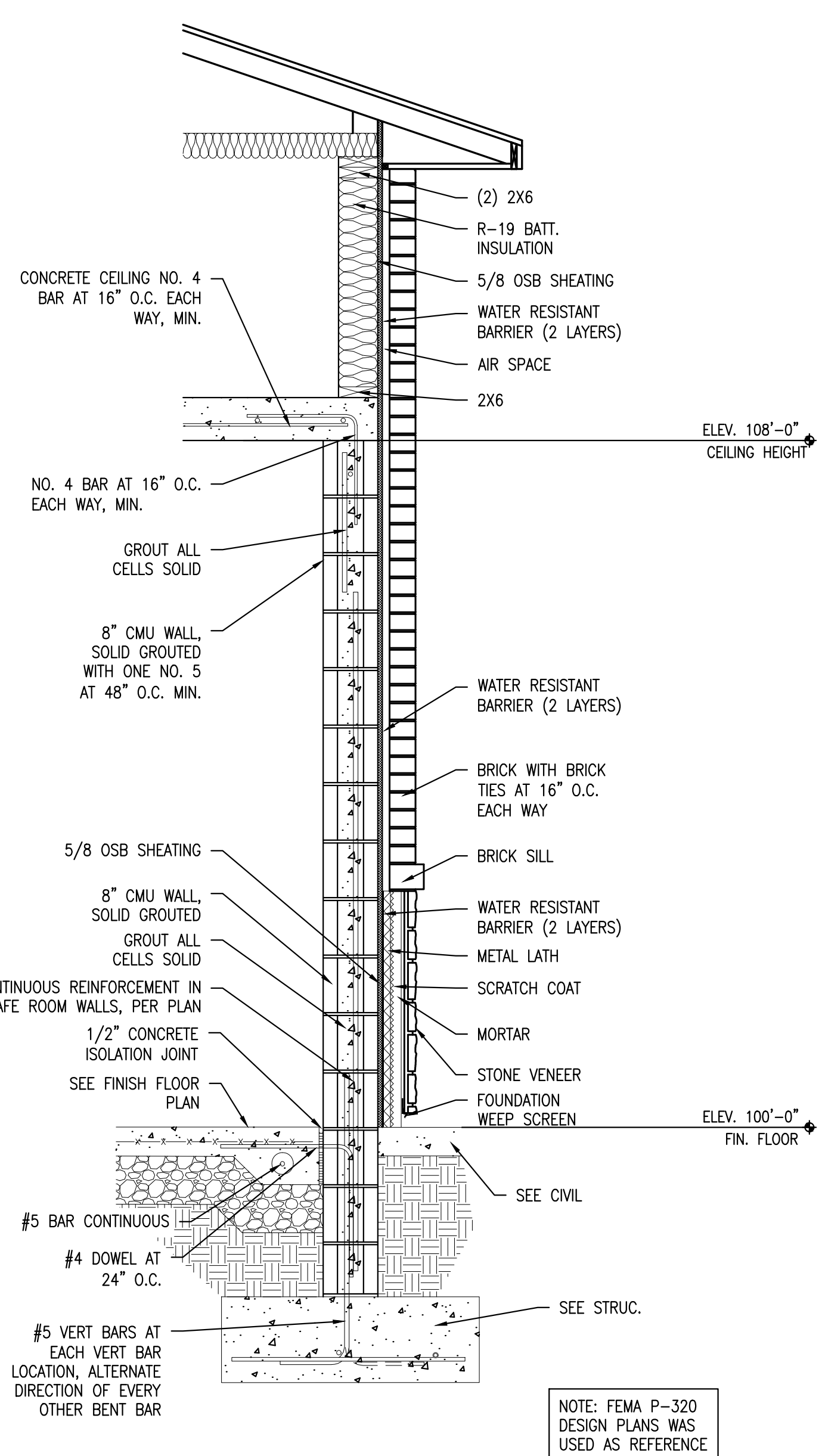


**WILBANKS**  
 ARCHITECTURE & ASSOCIATES, LLC

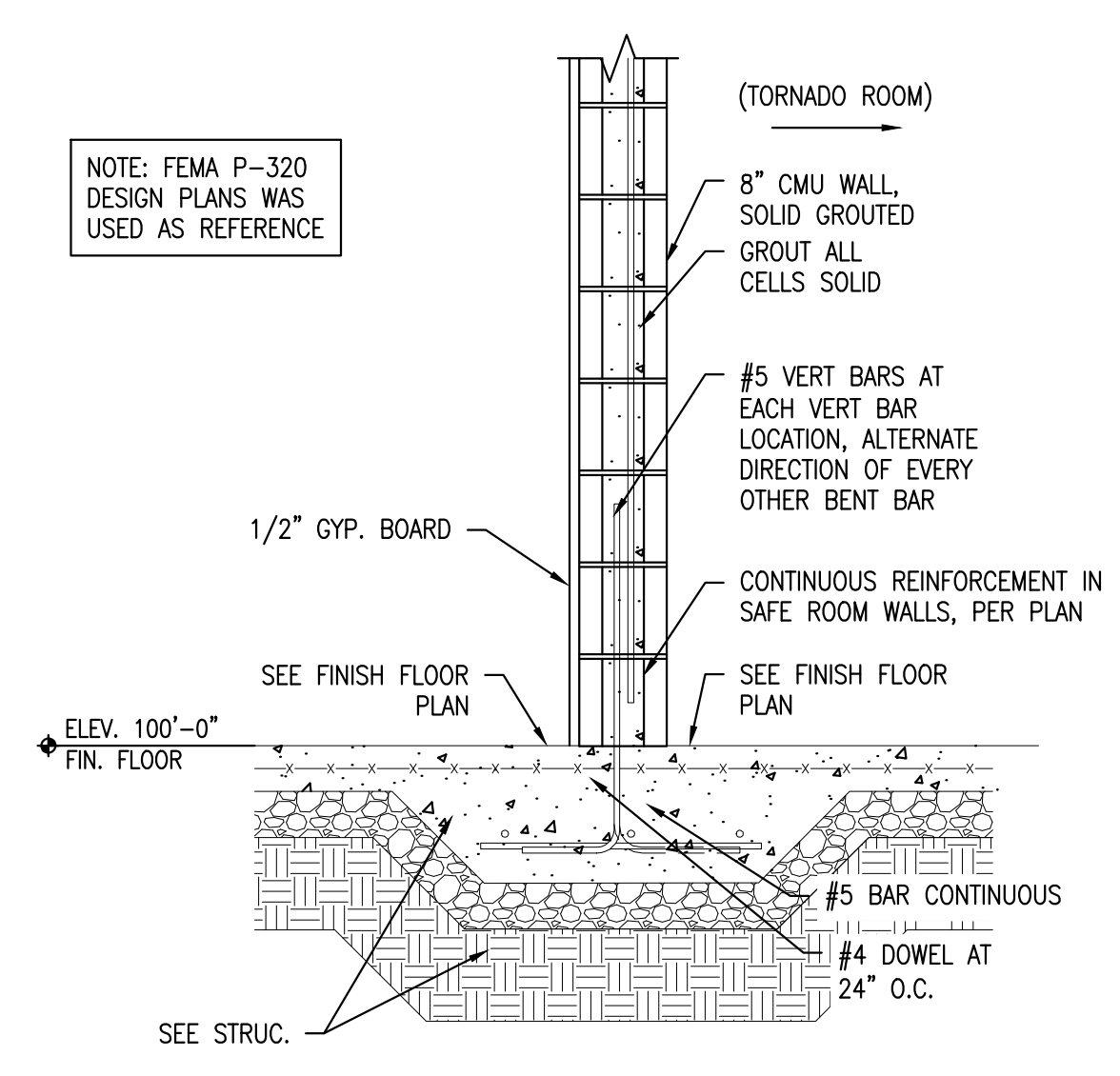
5567 Commander Dr., Ste 105  
 Arlington, Tennessee 38002  
 Phone: 901-867-3220  
 Fax: 901-867-3331  
 Website: www.wilbanksa.com

**WALL SECTIONS AND DETAILS**  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**A-05.2**  
 PROJECT:  
 WAA: 1314-33



**1B** EXTERIOR WALL SECTION AT TORNADO SHELTER  
 SCALE: 3/4" = 1'-0"

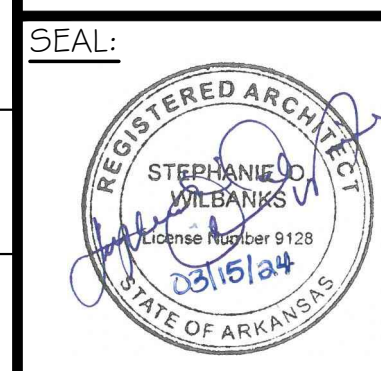


**1A** TYP. INTERIOR FOOTING AT TORNADO SHELTER  
 SCALE: 3/4" = 1'-0"

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



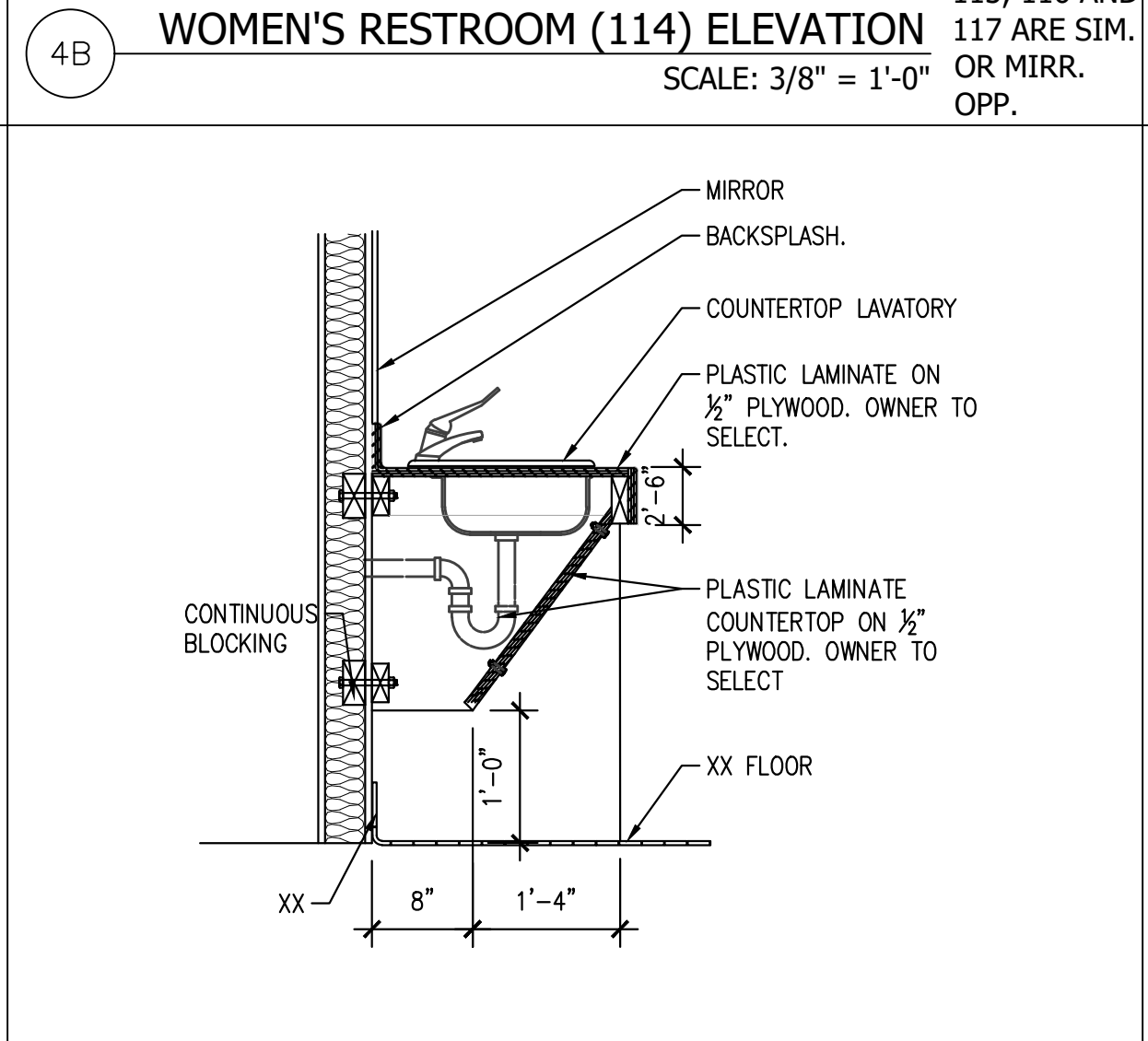
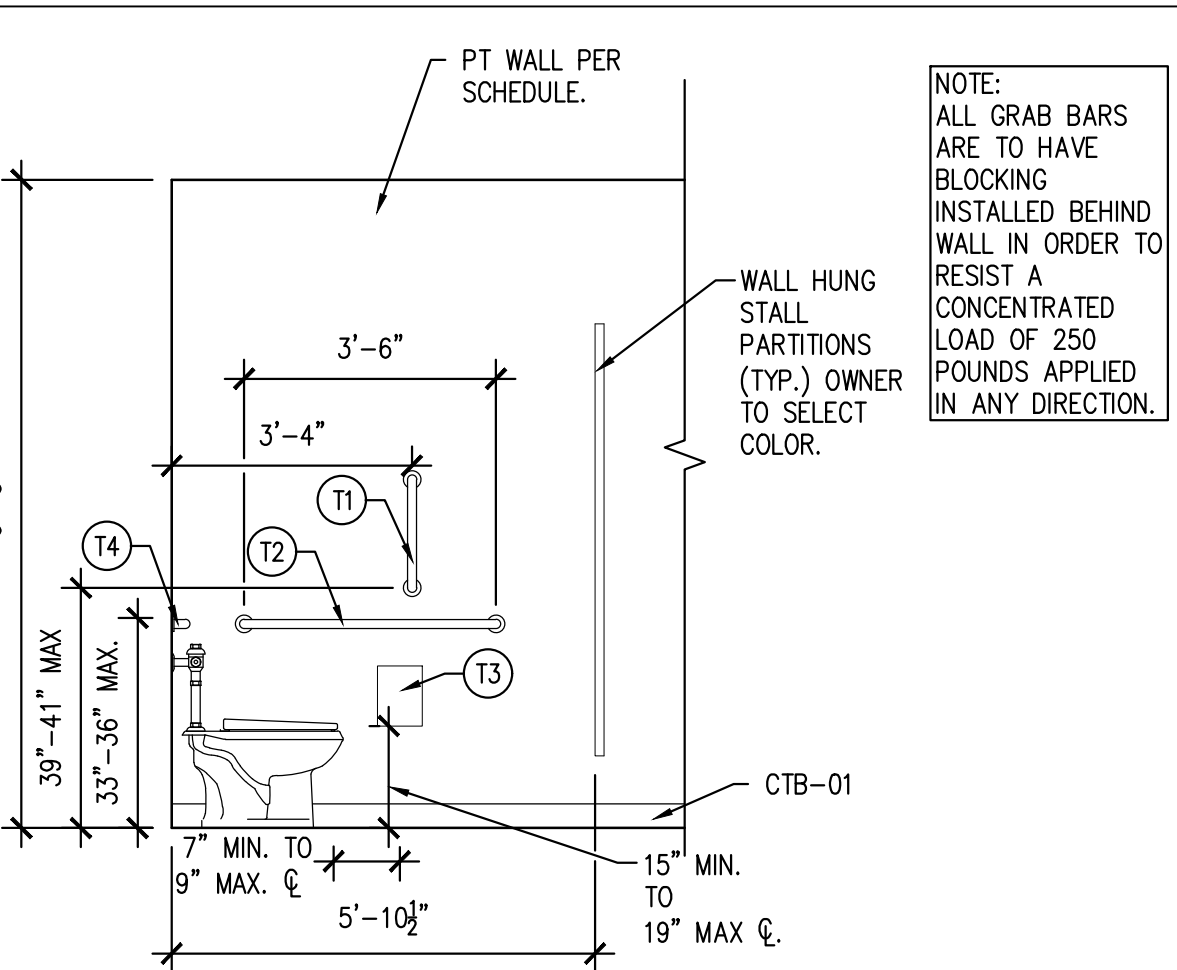
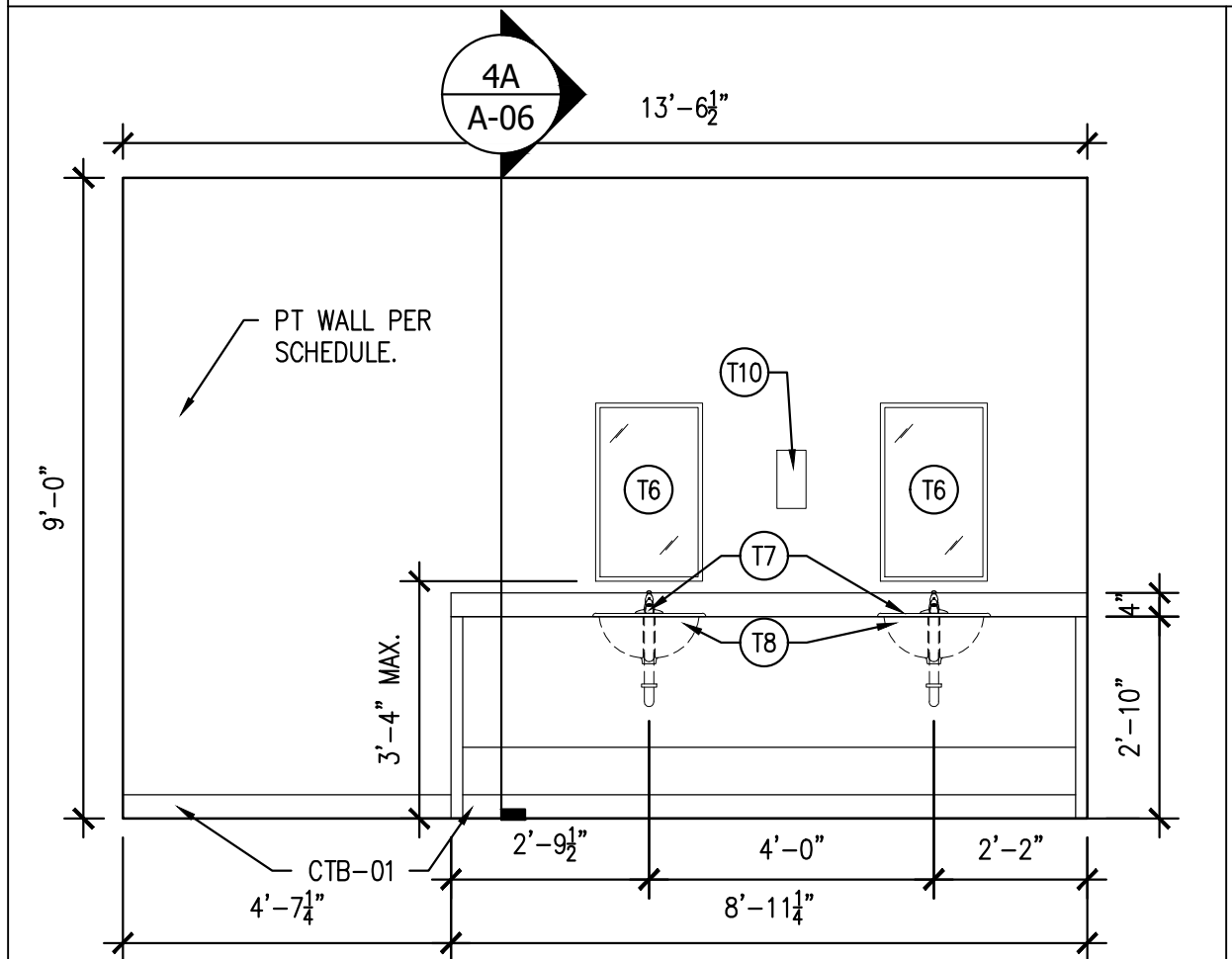
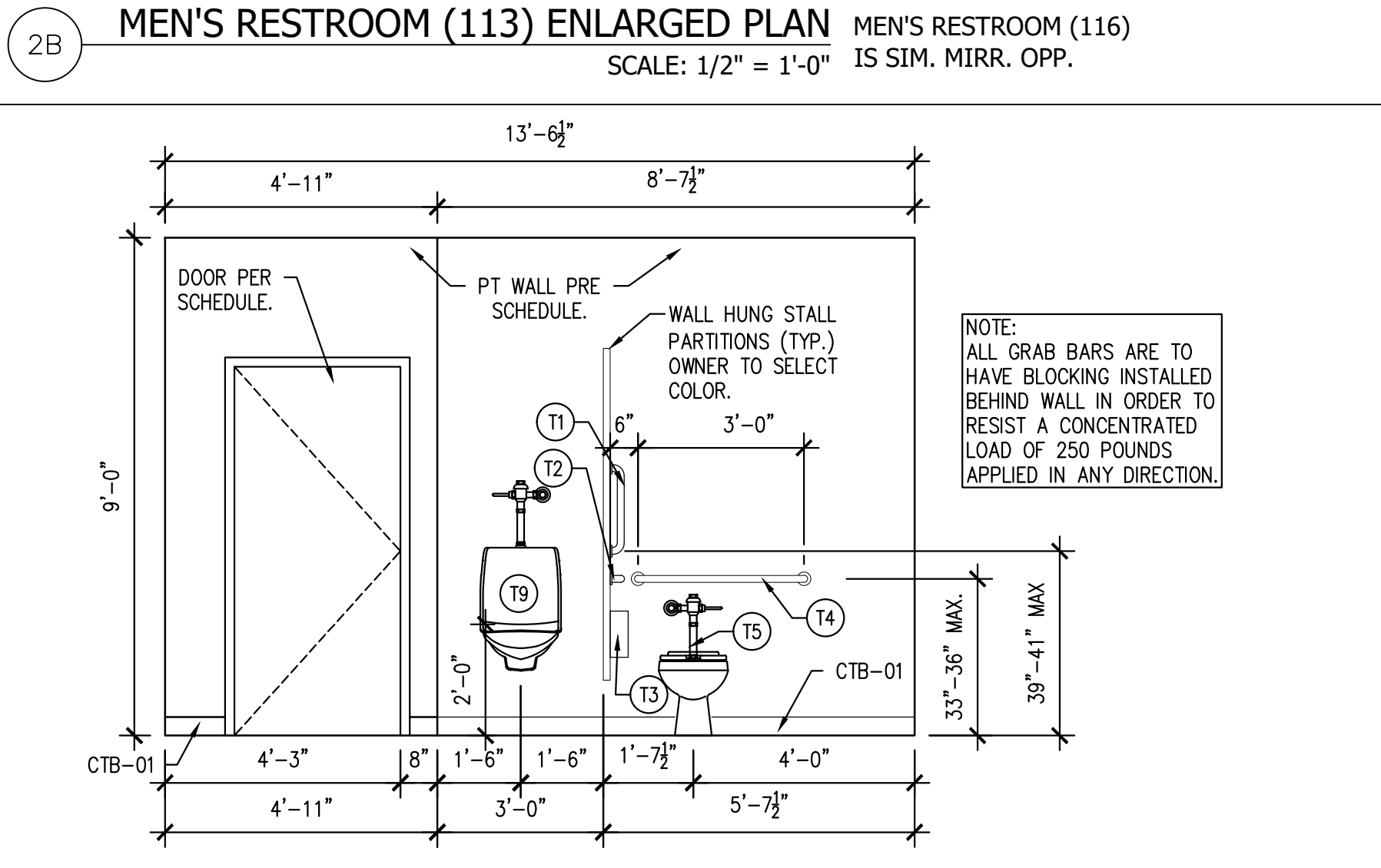
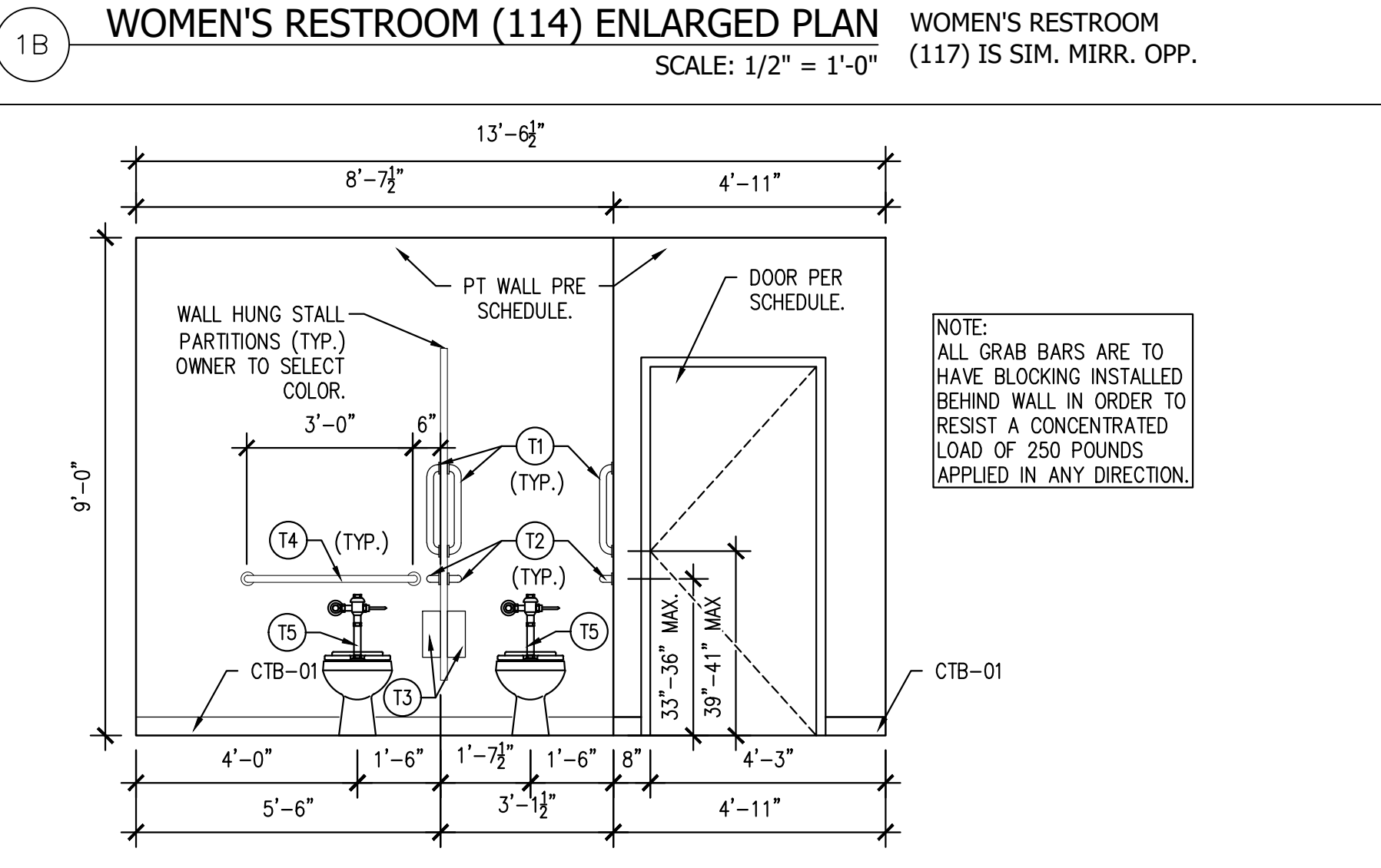
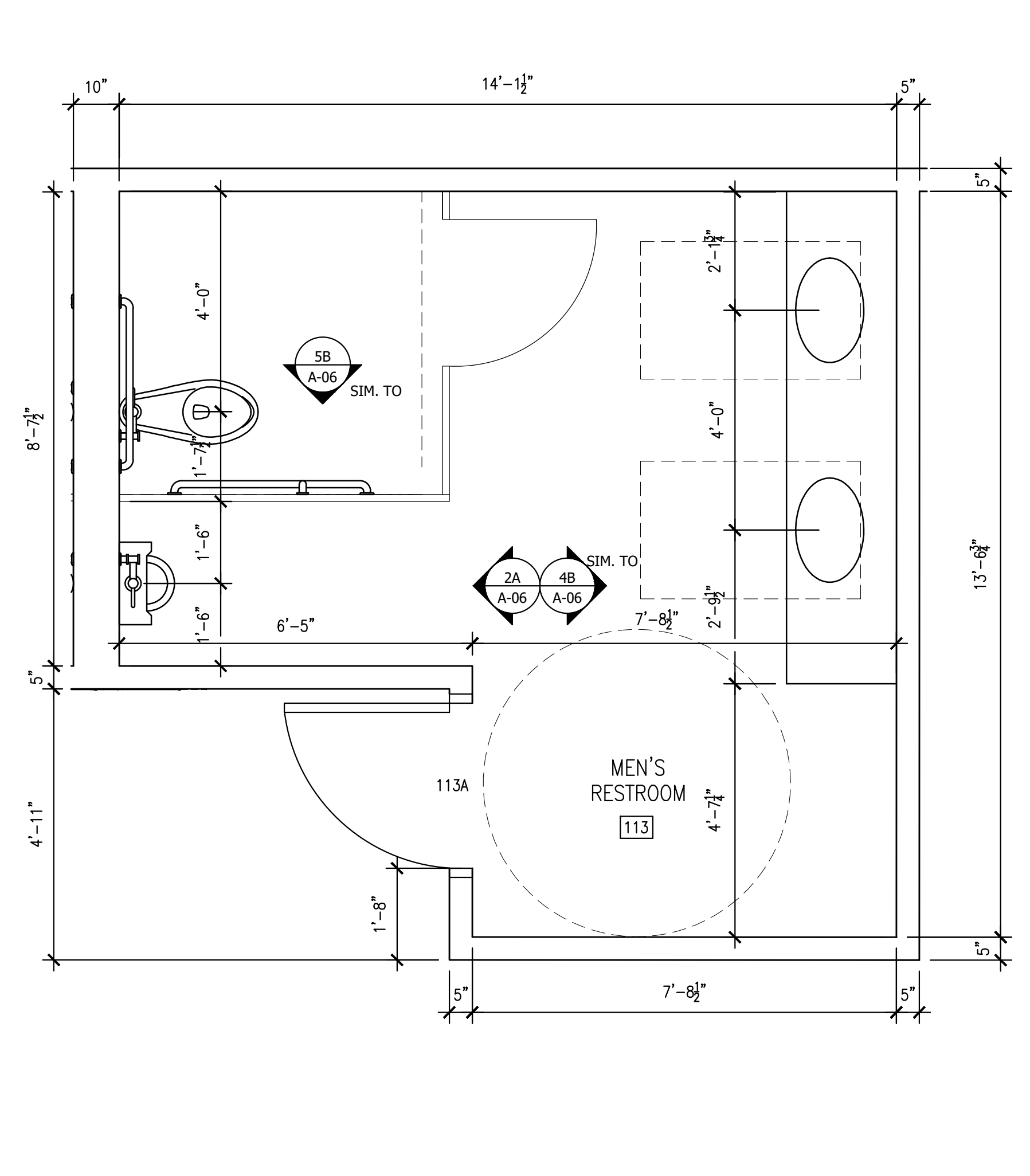
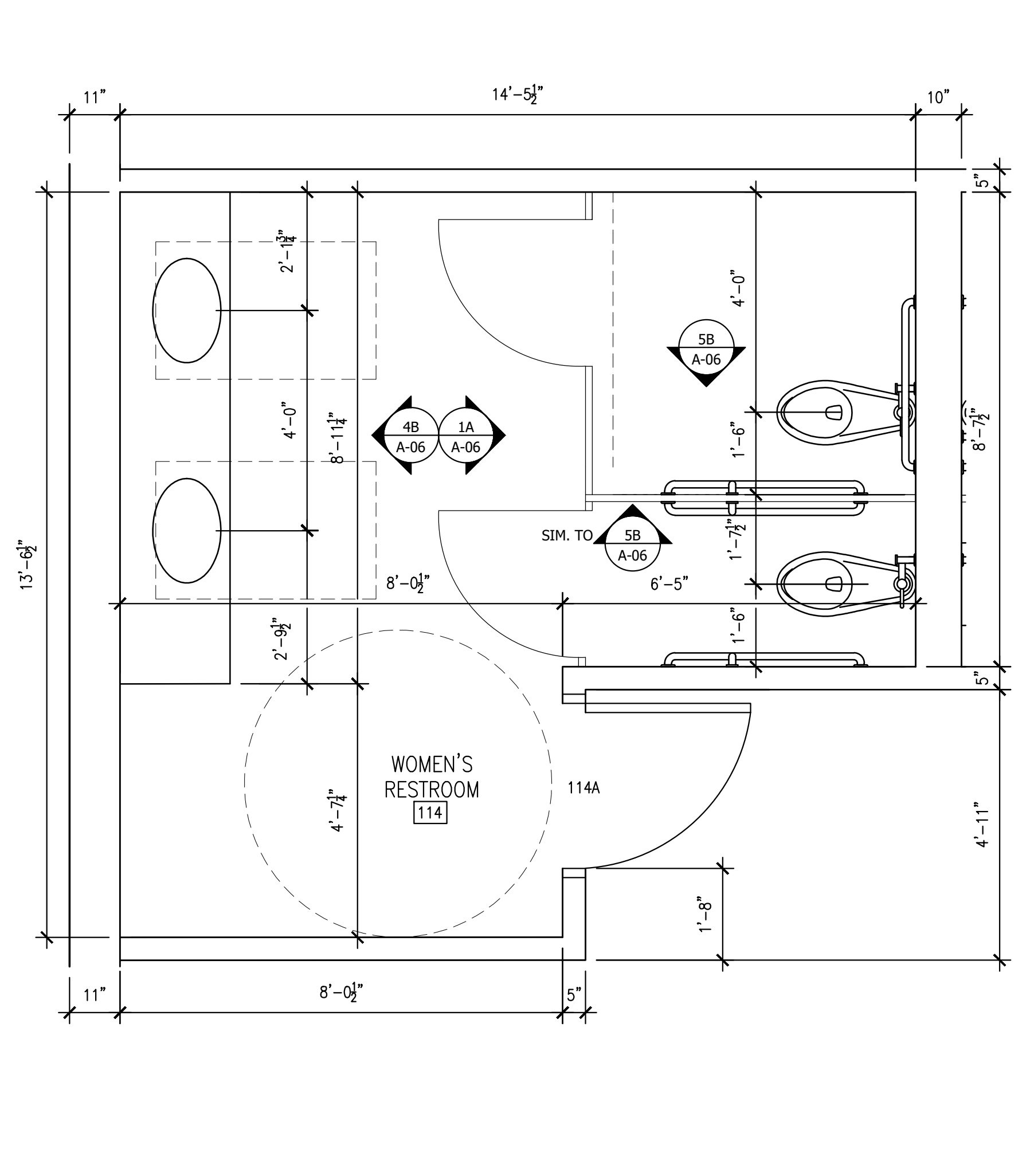
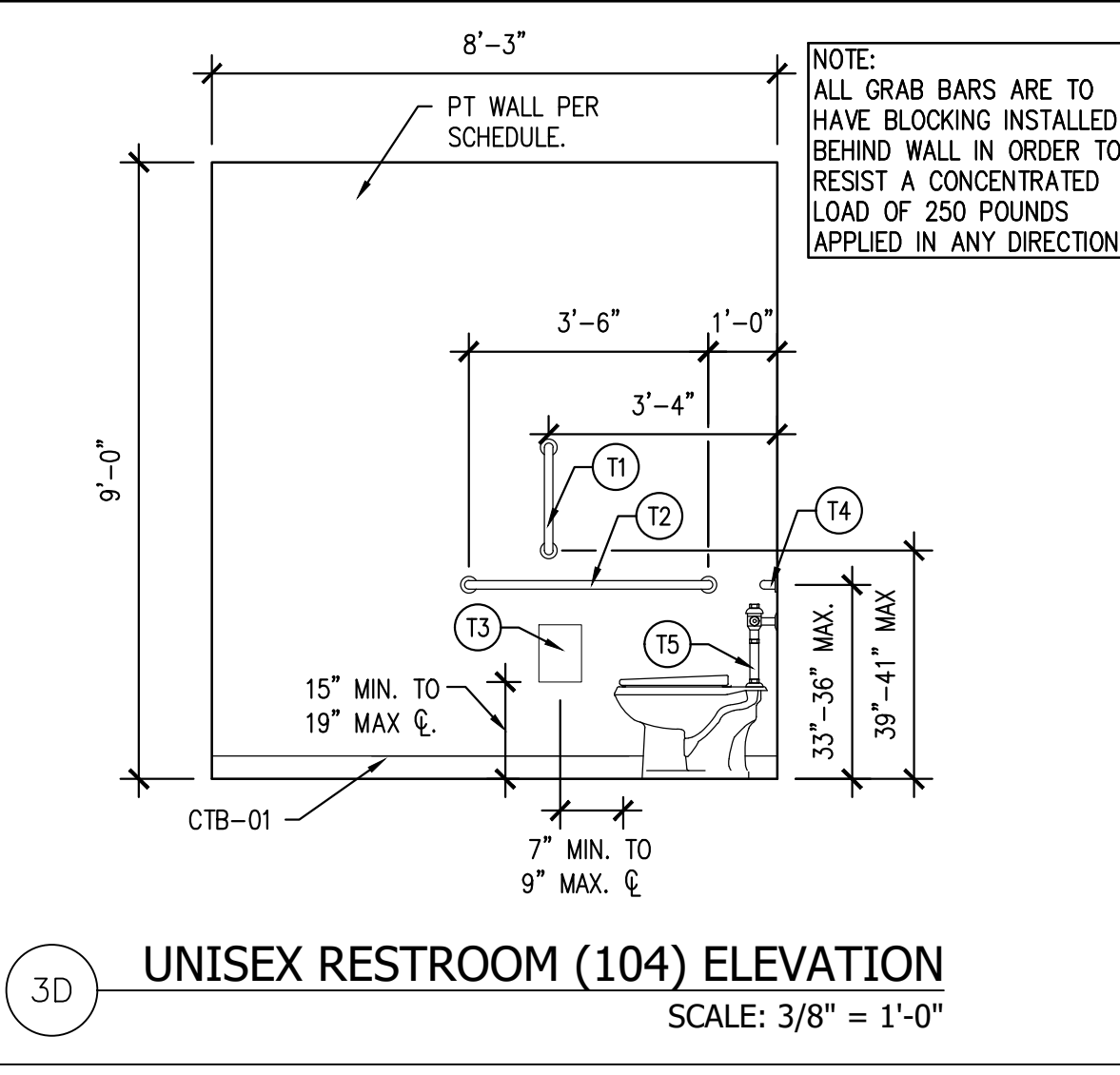
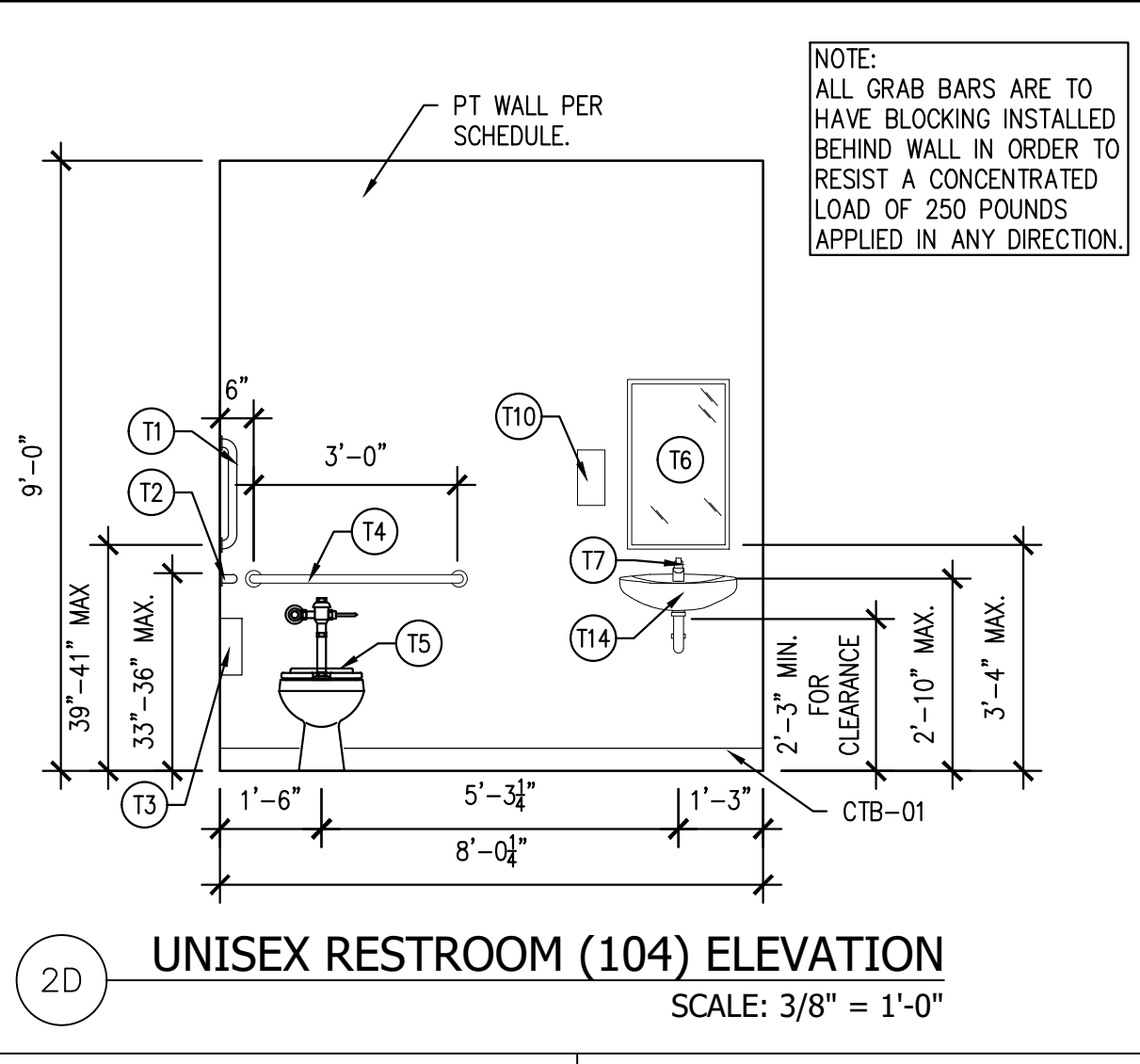
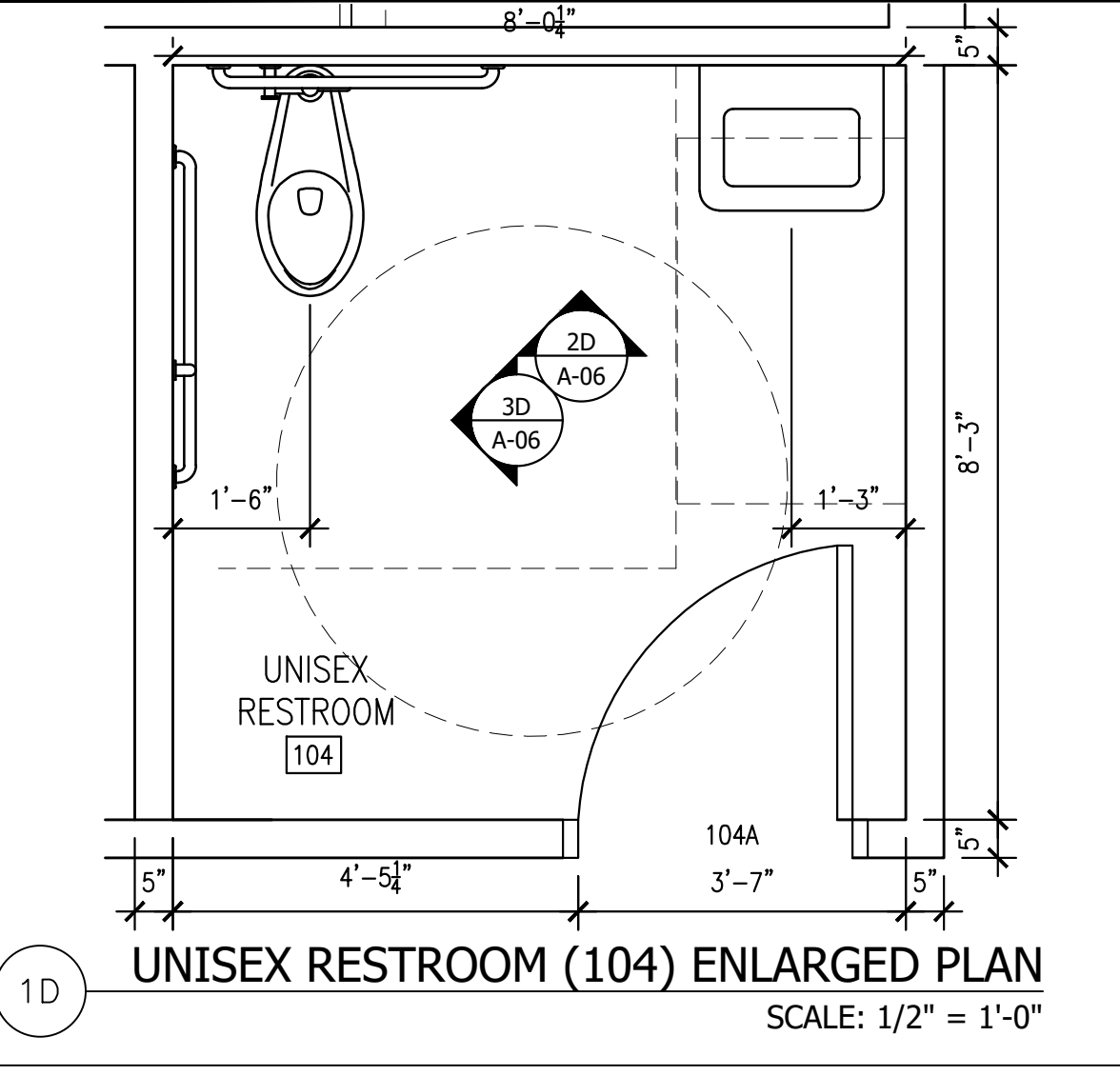
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**TOILET ACCESSORIES**

TAG	ITEM	MOUNTING	MANUF.	PRODUCT INFO.	NOTES
T1	18" VERTICAL GRAB BAR	℄ 39 TO 41" MAXIMUM AFF	BOBRICK	5806.99X18	---
T2	42" GRAB BAR	℄ 33 TO 36" MAXIMUM AFF	BOBRICK	5806.99X42	---
T3	TOILET PAPER DISPENSER	15" TO 19" MAXIMUM TO ℄ AFF	OWNER TO SELECT	---	---
T4	36" GRAB BAR	℄ 33 TO 36" MAXIMUM AFF	BOBRICK	5806.99X36	---
T5	WATER CLOSET	FLOOR MOUNTED	---	---	SEE PLUMBING
T6	SURFACE MOUNTED FIXED-POSITION TILT MIRROR	40" AFF FROM BOTTOM OF REFLECTING SURFACE	BOBRICK	B-293	CENTER OF NEW LAVATORY
T7	LAVATORY FAUCET	---	---	---	SEE PLUMBING
T8	LAVATORY	---	---	---	SEE PLUMBING
T9	URINAL	SEE ELEVATION	---	---	SEE PLUMBING
T10	SOAP DISPENSER	44"-48" MAXIMUM AFF	BOBRICK	B-2111	SEE NOTE 10.
T11	PAPER TOWEL DISPENSER	44"-48" MAXIMUM AFF	BOBRICK	B-262	MINIMUM 1 PER RESTROOM. SEE NOTE 10.

- NOTES:
1. VERIFY CODE AND SPACE PRIOR TO INSTALLATION OF FIXTURES.
  2. ALL FIXTURES ARE WHITE OR STAINLESS STEEL UNLESS OTHERWISE NOTED.
  3. VERIFY ALL SINKS WILL FIT INTO SPACE BEFORE ORDERING.
  4. INSTALL 1/4 TURN "STOPS" ON ALL PLUMBING FIXTURES/LINES.
  5. INSTALL WAX RINGS FOR WATER CLOSET.
  6. SANITARY SEAL WATER CLOSET TO FLOOR.
  7. FOR ROOM FINISH OWNER TO DECIDE.
  8. ALL GRAB BARS ARE TO HAVE BLOCKING INSTALLED BEHIND WALL IN ORDER TO RESIST A CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION.
  9. SEE ALSO PLUMBING SHEETS.
  10. COORDINATE PAPER TOWEL DISPENSER LOCATION WITH OWNER PRIOR TO INSTALL.



**SHEET NOTES:**

1. SEE A-09 FOR FLOOR FINISHES.
2. SEE A-08 FOR DOOR TYPES.

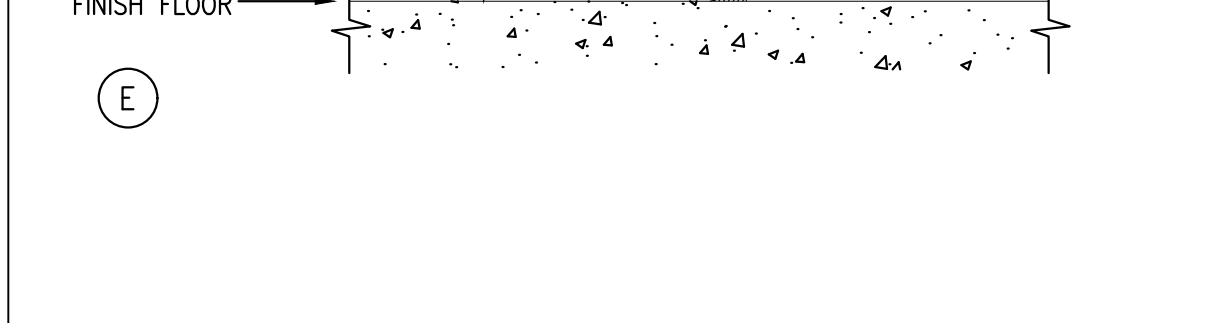
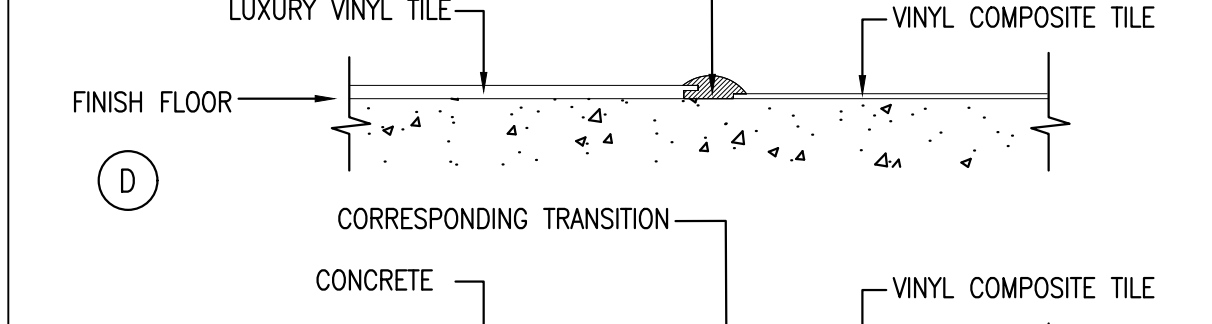
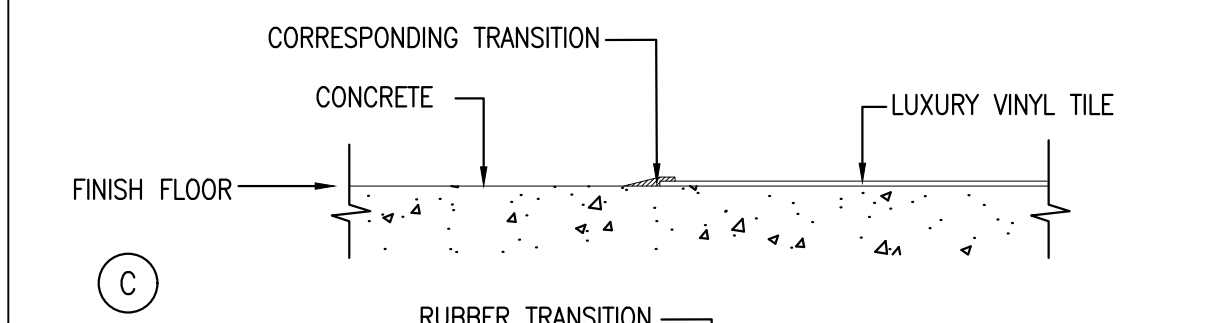
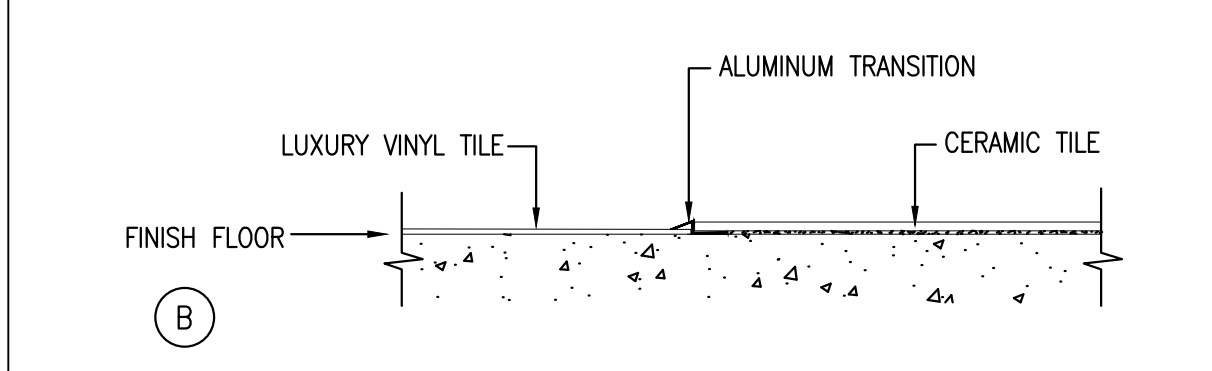
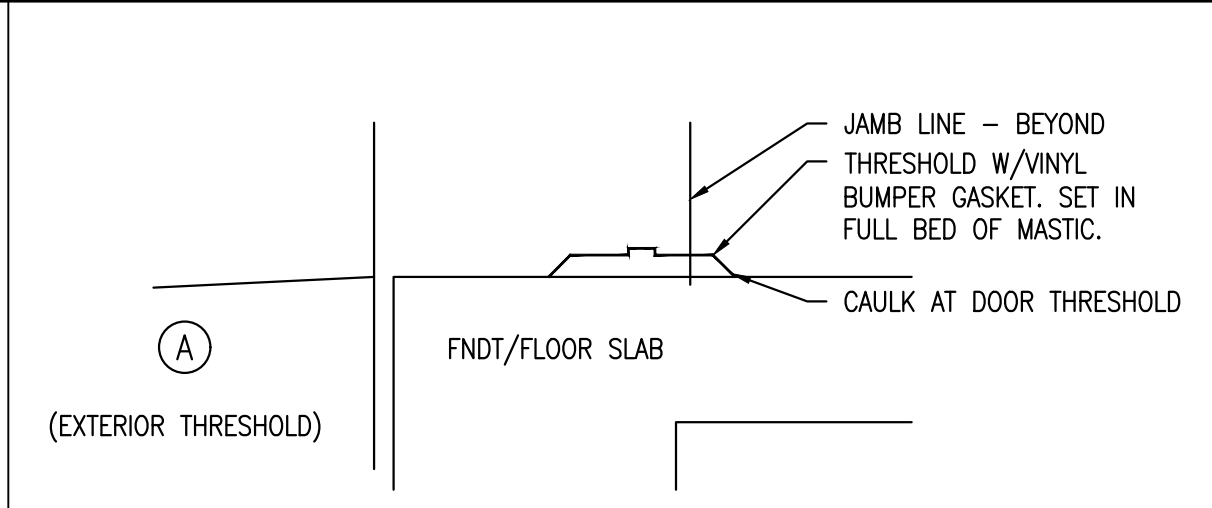
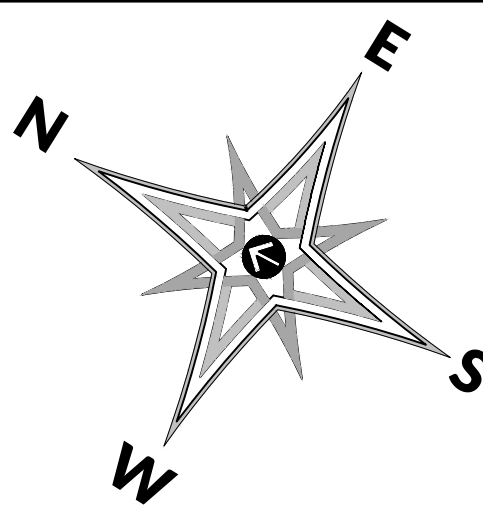
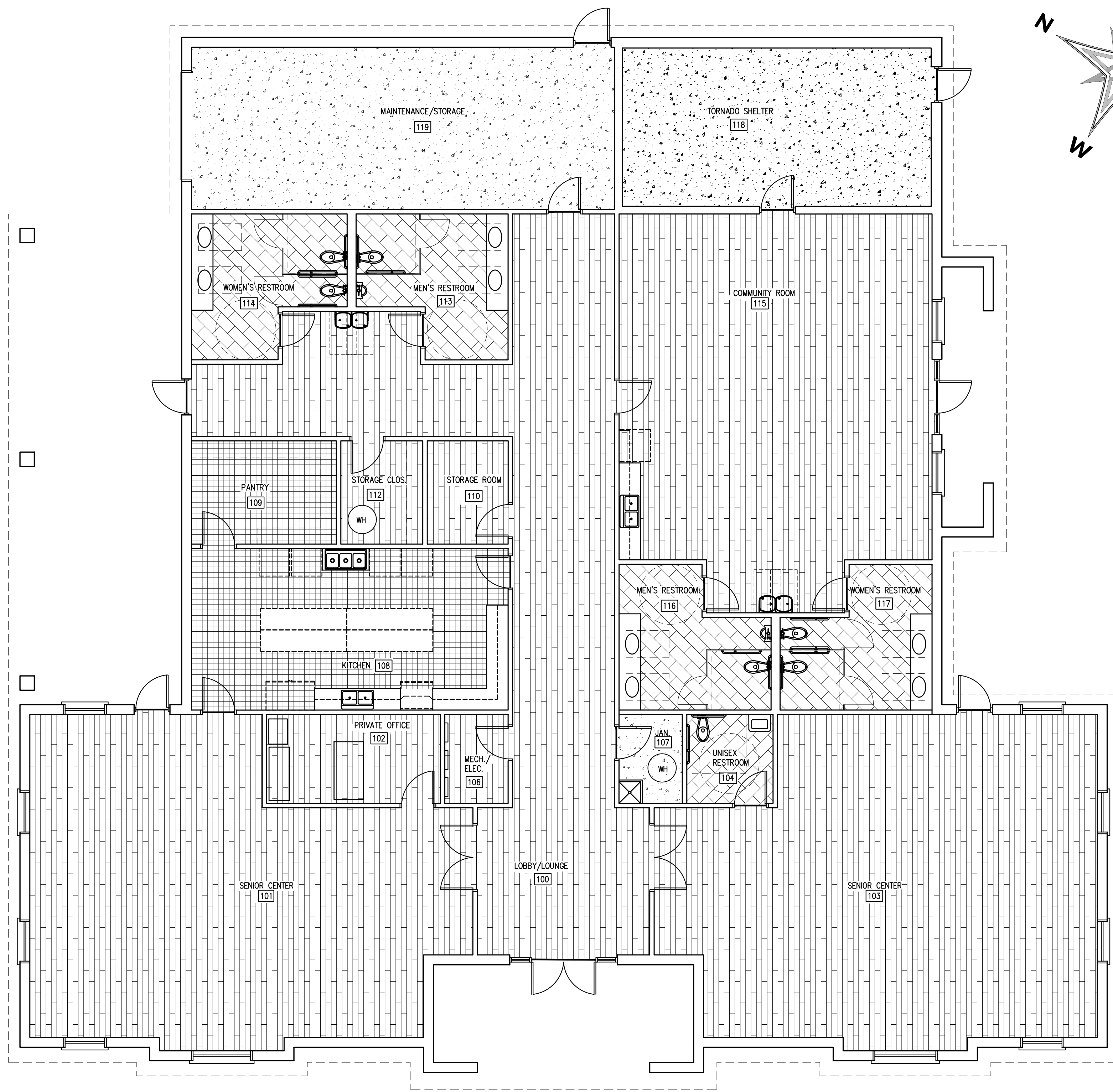
REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

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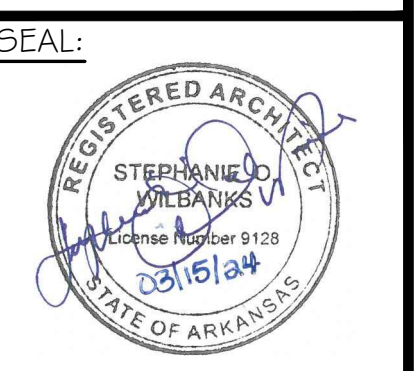


4C FLOOR TRANSITIONS  
SCALE: NTS

**GENERAL NOTES**

- DO NOT SCALE DRAWINGS. DIMENSIONS SHOWN IN PLANS ARE FROM ORIGINAL DESIGN DRAWINGS AND ARE SHOWN FOR CONTRACTOR BENEFIT IN ESTIMATING ONLY. FIELD VERIFY ALL EXISTING CONDITIONS IN AREA OF WORK. IF THERE ARE QUESTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE CLARIFICATION FROM THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- CONSTRUCT AND MAINTAIN TEMPORARY BARRIERS AS REQUIRED TO SECURE THE AREA OF WORK FROM AND PROTECT THE GENERAL PUBLIC.
- MAINTAIN THE AREA OF WORK FREE FROM ACCUMULATIONS OF WASTE MATERIALS, RUBBISH, AND DEBRIS RESULTANT TO WORK PERFORMED UNDER THIS CONTRACT.
- MAINTAIN CONTINUOUS UNINTERRUPTED USE OF PUBLIC UTILITIES. SCHEDULE INTERRUPTIONS OF ANY SERVICE TO OCCUPIED AREAS WITH THE UTILITY COMPANY. NOTIFICATION AND CONFIRMATION SHALL BE MADE IN WRITING 48 HOURS PRIOR TO SERVICE INTERRUPTION.
- REPAIR AND/OR REPLACE EXISTING CONSTRUCTION OR FINISHES IN OR ADJACENT TO AREA OF WORK DAMAGED DURING AND BY WORK PERFORMED UNDER THIS CONTRACT.
- MAINTAIN CONSTANT AND UNIMPEDED EGRESS AND EMERGENCY ROUTES IN AND AROUND AREA OF WORK. SCHEDULE ANY INTERRUPTIONS OF ACCESS TO EGRESS AND EXITING ROUTES WITH LOCAL OFFICIALS. NOTIFICATION AND CONFIRMATION SHALL BE MADE IN WRITING 48 HOURS PRIOR TO INTERRUPTION.
- CONTRACTOR IS RESPONSIBLE FOR ANY WORK INSTALLED OR COMPLETED OUTSIDE THIS SET OF DOCUMENTS.
- WORK UNDER THIS CONTRACT SHALL BE PERFORMED IN ACCORDANCE WITH ALL GOVERNING CODES AND LOCAL OFFICIALS.

DATE: 03/14/2024  
 DRAWN BY: SSP  
 DESIGNER: SOW  
 CHECKED BY: SOW



**WILBANKS**  
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1B FINISH FLOOR PLAN  
 SCALE: NTS

**FINISH LEGEND**

[Pattern]	LVT-01
[Pattern]	CT-01
[Pattern]	CT-02
[Pattern]	VCT-01
[Pattern]	CONC-01
[Pattern]	CONC-02

- NOTES:**
- PREP. PRIME AND PAINT (2 FINISH COATS) ALL NEW GYP BOARD AND WALLS/CEILINGS.
  - PREP. PRIME AND PAINT (2 FINISH COATS) ALL WOOD TRIM, DOORS AND FRAMES.
  - USE CEMENT BOND IN WET/DAMP LOCATIONS (KITCHEN AND BATHS). INCLUDE 2% REPLACEMENT STOCK OF EACH TILE USED.
  - ARCHITECT TO PROVIDE PAINT LOCATION AT LATER DATE. NO PAINTING TO BE COMPLETED WITHOUT APPROVED PAINT REPLACEMENT PLAN.
  - ALL COLORS TO BE APPROVED OR MODIFIED IN SUBMITTAL PROCESS.

TAG	MATERIAL	VENDOR	SERIES	COLOR	PRODUCT#	SIZE	FINISH	NOTES
CONC-01	CONCRETE	---	---	---	---	---	UNPOLISHED	CONTRACTOR TO APPLY SEALER (TYP)
CONC-02	CONCRETE	---	---	---	---	---	UNPOLISHED	CONTRACTOR TO APPLY SEALER (TYP)
CT-01	CERAMIC FLOOR TILE	DALTILE OR APPROVED EQUAL	EMERGENT	ALUMINUM	EM32	12"x24"	LIGHT POLISHED	INSTALL IN RUNNING BOND PATTERN. DIRECTIONS SHOWN IN PLAN. MORTAR TO BE SELECTED BY ARCHITECT.
CT-02	CERAMIC FLOOR TILE	DALTILE OR APPROVED EQUAL	QUARRY	ARID FLASH	0Q48	6"x6"	ABRASIVE	INSTALL PER DIRECTION ON FINISH FLOOR PLAN. MORTAR TO BE SELECTED BY ARCHITECT.
LVT-01	LUXURY VINYL TILE	MOHAWK OR APPROVED EQUAL	LIVING LOCAL	SANDY	829	6"x48"	---	INSTALL PER DIRECTION ON FINISH FLOOR PLAN
VCT-01	VINYL COMPOSITION TILE	ARMSTRONG OR APPROVED EQUAL	---	TBD	TBD	12"x12"	TBD	INSTALL PER DIRECTION ON FINISH FLOOR PLAN. ARCHITECT TO SELECT COLOR AND FINISH.
CTB-01	CERAMIC BASE	DALTILE OR APPROVED EQUAL	EMERGENT	ALUMINUM	P43F9	3"x24"	---	INSTALLED THROUGHOUT RESTROOMS. ARCHITECT TO SELECT FINISH.
CTB-02	CERAMIC BASE	DALTILE OR APPROVED EQUAL	QUARRY	ARID FLASH	Q3565	5"x6"	---	INSTALLED THROUGHOUT KITCHEN AND PANTRY. ARCHITECT TO SELECT FINISH.
RB-01	RUBBER BASE	JOHNSONITE, OR APPROVED EQUAL	---	BURNT UMBER	63	4"	---	INSTALLED THROUGHOUT EXCEPT FOR RESTROOMS, KITCHEN AND PANTRY.
STN-01	WOOD FINISH STAIN	MINWAX	---	EBONY	MW-2718	---	---	STAIN TO BE OIL BASE. CONTRACTOR TO PROVIDE SAMPLES OF FINAL FINISH (ON BIRCH). STAIN 2 COATS AND SEAL.
PLAM-01	PLASTIC LAMINATE	FORMICA, OR APPROVED EQUAL	---	CARRARA BIANCO	6696	---	MATTE (58)	INSTALLED ON CUSTOM RESTROOM VANITIES.
PLAM-02	PLASTIC LAMINATE	FORMICA, OR APPROVED EQUAL	---	WALNUT FIBERWOOD	8915	---	MATTE (58)	INSTALLED ON CUSTOM MILLWORK CABINET FACES.
PT-01	PAINT	SHERWIN WILLIAMS OR OWNER APPROVED EQUIVALENT	---	T.B.D.	T.B.D.	---	SEMI GLOSS	ALL COLOR SELECTIONS TO BE APPROVED BY OWNER. INSTALL AT ANY TRIM AND HM DOORS. CONFIRM WITH ARCHITECT.
PT-02	PAINT	SHERWIN WILLIAMS OR OWNER APPROVED EQUIVALENT	---	T.B.D.	T.B.D.	---	SATIN	ALL COLOR SELECTIONS TO BE APPROVED BY OWNER. INSTALL ALONG WALLS
PT-03	PAINT	SHERWIN WILLIAMS OR OWNER APPROVED EQUIVALENT	---	T.B.D.	T.B.D.	---	SATIN	ALL COLOR SELECTIONS TO BE APPROVED BY OWNER. INSTALL ALONG WALLS.
PT-04	PAINT	SHERWIN WILLIAMS OR OWNER APPROVED EQUIVALENT	---	T.B.D.	T.B.D.	---	FLAT	ALL COLOR SELECTIONS TO BE APPROVED BY OWNER. INSTALL AT GYP BRD CEILINGS ONLY

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



**FINISH FLOOR PLAN**  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**A-09**  
 PROJECT:  
 WAA: 1314-33

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# WILBANKS ARCHITECTURE & ASSOCIATES, LLC

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Arlington, Tennessee 38002  
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## GENERAL NOTES AND LEGEND

NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

# M0.1

## MECHANICAL SPECIFICATIONS

### TESTING & BALANCING

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST SHALL BE PER NEBB OR AABC, AND ASHRAE STANDARDS. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS. MAINTENANCE OF TEMPERATURES AND OPERATIONS. BALANCE MECHANICAL SYSTEM AND SUBMIT COMPLETED TEST REPORT TO CONSTRUCTION MANAGER, PRIOR TO THE REQUEST FOR FINAL PAYMENT. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, NEBB OR AABC. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 5% OF AIR VOLUMES INDICATED. ANY DISCREPANCY SHALL BE REPORTED TO HVAC INSTALLER FOR DUCT CORRECTION, PRIOR TO FINAL REPORT. IN ADDITION, THE BALANCING CONTRACTOR SHALL VERIFY THAT THE BUILDING PRESSURE IS BETWEEN 0.02" AND 0.05" W.G. POSITIVE WITH RESPECT TO THE OUTDOORS. AFTER FINAL DUCT ADJUSTMENTS HAVE BEEN MADE, FINAL BALANCING SHALL BE PERFORMED AND THE RESULTS REPORTED IN A CERTIFIED BALANCE REPORT. FINAL BALANCED POSITIONS SHALL BE MARKED ON THE DAMPER WITH A PERMANENT MARKER. NOTE ALL AIR QUANTITIES OUTSIDE OF TOLERANCE IN REPORT.

AT PROJECT COMPLETION, A COPY OF THE FINAL BALANCE REPORT MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW, COMMENT, AND ACCEPTANCE PRIOR TO ISSUE OF CERTIFICATE OF OCCUPANCY.

### DUCTWORK & ACCESSORIES

MINIMUM DUCT GAUGES ARE AS FOLLOWS:  
MAXIMUM DIMENSIONS STEEL GAUGE  
THRU 12" 26  
13" THRU 30" 24  
31" THRU 54" 22  
55" THRU 84" 20

DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

QUALIFY EACH WELDER IN ACCORDANCE WITH AWS. QUALIFICATION TESTS FOR WELDING PROCESSES INVOLVED. CERTIFY THAT THEIR QUALIFICATION IS CURRENT.

### SHEETMETAL DUCTWORK

ALL DUCTWORK TO BE RIGID SHEET METAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTBOARD IS NOT ALLOWED. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER. MOUNT DUCTWORK AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE. (NO SQUARE THROAT ELBOWS SHALL BE INSTALLED WITHOUT DOUBLE THICKNESS TURNING VANES) ALL DUCT CONNECTIONS TO THE EQUIPMENT SHALL BE CALLED TYPE VINYL, VIBRATION ELIMINATION CONNECTIONS, (IF C.) FLEXIBLE CONNECTIONS. DUCTWORK TRANSITIONS SHALL BE (FOT) "FLAT ON TOP" UNLESS OTHERWISE SPECIFIED ON PLAN. ALL BRANCH SUPPLY DUCTS SHALL HAVE (MVD) MANUAL VOLUME DAMPERS INSTALLED FOR BALANCING. SEE SYMBOL LIST. ALL CONTRACTOR FABRICATED AND MANUFACTURER FABRICATED COMPONENTS OF THE OUTSIDE AIR, SUPPLY AIR, RETURN AIR AND EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AIR-TIGHT. THE INSTALLED SYSTEMS SHALL BE PRESSURE TESTED AS SPECIFIED. PIPE OPENINGS IN SYSTEM COMPONENTS SHALL HAVE SHEET METAL BAFFLES, SET IN SEALANT, TO PREVENT LEAKAGE.

### HOOD EXHAUST DUCTWORK

ALL SECTIONS OF THE EXHAUST DUCTWORK TO BE CONSTRUCTED WITHOUT FORMING DIPS AND TRAPS AND MUST SLOPE NOT LESS THAN 1/4 INCH PER FOOT (2%) TOWARD THE HOOD OR AN APPROVED GREASE RESERVOIR (IMC 506.3.7). GREASE DUCTS MUST BE CONSTRUCTED OF STEEL NOT LESS THAN 0.055 IN (16 GAUGE) IN THICKNESS OR STAINLESS STEEL NOT LESS THAN 0.044 IN (18 GAUGE) IN THICKNESS (EXCEPTIONS FOR UL LISTED GREASE DUCTWORK). GREASE DUCTS: ALL SEAMS, JOINTS, AND PENETRATIONS MUST HAVE LIQUID TIGHT EXTERNAL WELDS (IMC 506.3.2). ANY PORTION OF THE GREASE DUCTWORK HAVING SECTIONS NOT PROVIDED WITH ACCESS FROM THE DUCT ENTRY OR DISCHARGE MUST BE PROVIDED WITH CLEANOUT OPENINGS (IMC 506.3.8 AND 506.3.9).

### HVAC EXTERIOR DUCTWORK INSULATION

PROVIDE CLOSED-CELL POLYISOCYANURATE FOAM CORE WITH FOIL FACE DUCT BOARD INSULATION FOR DUCTWORK LOCATED OUTDOORS. MINIMUM R-VALUE OF R-6. EQUAL TO JOHNS MANVILLE MODEL XSPXCT ISOFOAM APF. USE MECHANICAL FASTENERS TO SECURE INSULATION PER MANUFACTURER'S RECOMMENDATION. ANY VOIDS OR CRACKS SHOULD BE FILLED TO CREATE A CONTINUOUS AIR CONSISTENT INSULATION SYSTEM. TAPER TOP OF DUCTWORK TO PREVENT POOLING. USE A UL 181A COMPLIANT TAPE OR VAPOR RETARDANT MASTIC TO CLOSE ALL BOARD SEAMS AND PENETRATIONS. COVER INSULATION WITH UV-RESISTANT, FLEXIBLE WEATHERPROOF CLADDING WITH SELF-STICK CLOSURE SYSTEM. EQUAL TO POLYGUARD MODEL ALUMAGUARD.

## MECHANICAL GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK.
- FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION AND INCIDENTALS TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS CALLED FOR HEREIN OR SHOWN ON THE ACCOMPANYING DRAWINGS.
- CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO THIS WORK.
- UPON COMPLETION OF THE PROJECT. ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT, COMPONENTS AND OR DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR AT COMPLETION OF THE JOB. ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY THIS CONTRACTOR.
- STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
- ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. REFER TO SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
- MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
- DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
- SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.
- WHERE PIPES OR DUCTS ARE TO PASS THROUGH WALLS, DUCT SLEEVES SHALL BE PROVIDED PRIOR TO WALL CONSTRUCTION. SLEEVE SHALL BE OF EQUAL OR GREATER GAUGE METAL THAN PIPES PASSING THROUGH.
- DAMPERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
- FIRE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE RATING AND BE "UL" LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.
- PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
- DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.
- CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.
- PROVIDE MANUAL BALANCING/VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS TO DIFFUSERS AND GRILLES FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS. AND AT ALL LOW PRESSURE DUCT SPLITS OR SUB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING OR ACCESS PANEL.
- MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
- SEISMIC RESTRAINT IS REQUIRED ON ALL MECHANICAL EQUIPMENT, APPLIANCES AND SYSTEMS INSTALLED. A SIGNED AND SEALED LETTER FROM THE DESIGNING ENGINEER VERIFYING THE INSTALLED SEISMIC RESTRAINTS MEET WITH THEIR DESIGN INTENT AND HAS THEIR APPROVAL MUST BE SUBMITTED PRIOR TO CONCEALMENT OF ANY PORTION OF A MECHANICAL SYSTEM OR THE FINAL INSPECTION.
- ANY CONTRACTOR WHO DESIRES TO INSTALL, ENLARGE, ALTER, REPAIR, MOVE OR REPLACE ANY MECHANICAL SYSTEM, THE INSTALLATION OF WHICH IS REGULATED BY THIS CODE, SHALL FIRST MAKE APPLICATION AND OBTAIN THE REQUIRED PERMIT FOR THE WORK. ALL MECHANICAL IS SUBJECT TO THE FIELD INSPECTOR'S APPROVAL.
- ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BE ACCESSIBLE AS REQUIRED BY IMC 306 AND IFGC 306.
- PROVIDE WATER LEVEL DETECTION DEVICES COMPLIANT WITH IMC 307.2.3.1.

### SCOPE OF WORK

- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. HVAC SYSTEM INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
  - HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
  - SUPPLY AND RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
  - TEMPERATURE CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT
  - DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN

ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND OTHER REGULATION GOVERNING WORK. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION, SUCH AS DUCTWORK, FANS, HOODS, SUPPLY AND RETURN DIFFUSERS, ETC. SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION. CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH THE OWNER.

### PERMITS

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.

### SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL.

### MISCELLANEOUS

COORDINATE THE INSTALLATION OF ALL ROOF FLASHINGS AT ROOF PENETRATION. ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

### CONTROLS

PROVIDE STANDALONE MANUFACTURER CONTROLS WITH EQUIPMENT. PROVIDE INTERCONNECTIONS WITH EXHAUST FANS AND LOUVERS. PROVIDE ANY NECESSARY TRANSFORMERS AND RELAYS FOR A FULLY FUNCTIONING SYSTEM.

### CONTROL WIRING

THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM. THE SYSTEM SHALL INCLUDE ALL INTERLOCKS FOR EQUIPMENT.

TEMPERATURE & HUMIDITY SENSORS  
TEMPERATURE & HUMIDITY SENSORS SHALL BE PROGRAMMABLE TO BE PROVIDED WITH THE HVAC UNIT. MULTISTAGE SEVEN DAY PROGRAMMABLE THERMOSTAT. MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT IDENTIFICATION WITH 1/8" HIGH WHITE LETTERS ON BLACK PHENOLIC LABELS  
BACKGROUND, I.E. "AC-1: CUSTOMER AREA" AND "AC-2: WORK AREA".

## ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CD	CEILING DIFFUSER
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONN	CONNECTION
CTE	CONNECT TO EXISTING
CJ	CONDENSING UNIT
DB	DRY BULB TEMPERATURE
DIFF	DIFFUSER
DIA	DIAMETER
Ø	DIAMETER
DM	DIAMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ELEV	ELEVATOR
EQUIP	EQUIPMENT
ESFP	EXISTING STATIC PRESSURE
EXIST	EXISTING
F	FARENHEIT
F	FAN
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FT	FEET
FSD	FIRE/SMOKE DAMPER
GA	GALVANIZED
GALV	GALVANIZED
GYP BD	GYPSONUM BOARD
HP	HORSEPOWER
HZ	HERTZ
IN	INCH
KEF	KITCHEN EXHAUST FAN
KH	KITCHEN EXHAUST HOOD
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CURRENT AMPACITY
MFR	MANUFACTURER
MECH	MECHANICAL
MIN	MINIMUM
MOD	MOTORIZED DAMPER
MOCP	MINIMUM OVERCURRENT PROTECTION
MVD	MANUAL VOLUME DAMPER
NC	NOISE CRITERIA
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	ODIEN END DUCT
PACU	PACKAGED AIR CONDITIONING UNIT
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
REOD	REQUIRED
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RULA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SQ	SQUARE
SQFT	SQUARE FEET
SR	SUPPLY REGISTER
STRUCT	STRUCTURAL
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TSTAT	THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
W	WATTS
WB	WET BULB
WC	WATER COLUMN
W	WITH
W/O	WITHOUT
(A)	ABANDONED
(D)	DEMO
(E)	EXISTING
@	AT
°	DEGREE

## MECHANICAL LEGEND

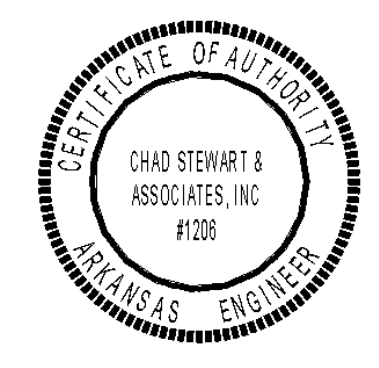
NOT ALL SYMBOLS MAY BE USED

SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCT - UP / DOWN
	RECTANGULAR RETURN DUCT - UP / DOWN
	RECTANGULAR EXHAUST DUCT - UP / DOWN
	ROUND SUPPLY DUCT - UP / DOWN
	ROUND RETURN DUCT - UP / DOWN
	ROUND EXHAUST DUCT - UP / DOWN
	FLEXIBLE DUCTWORK
	TRANSITION
	SQUARE THROAT ELBOW WITH TURNING VANES
	RISE/DROP IN ELEVATION
	RADIUS ELBOW
	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH, RECTANGULAR TRUNK, MVD REQUIRED TO AIR DEVICES
	BRANCH DUCT CONNECTION CONICAL TEE AND TAP ROUND TRUNK.
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	DUCT SMOKE DETECTOR
	DUCT-MOUNTED SENSOR
	FIRE DAMPER (HORIZONTAL DUCT)
	SMOKE DAMPER (HORIZONTAL DUCT)
	FIRE/SMOKE DAMPER (HORIZONTAL DUCT)
	FIRE DAMPER (VERTICAL DUCT)
	SMOKE DAMPER (VERTICAL DUCT)
	FIRE/SMOKE DAMPER (VERTICAL DUCT)
	SUPPLY DIFFUSER AND AIR QUANTITY. BLANK OUTS INDICATE NO THROW IN THIS DIRECTION. (SX DENOTES TYPE)
	RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE)
	EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)
	AIR FLOW RATE AT DOOR UNDERCUT
	REFER TO KEYNOTE #MX
	POINT OF CONNECTION
	POINT OF DEMOLITION
	WALL MOUNTED CONTROL DEVICES
	THERMOSTAT OR TEMP SENSOR

NUMBER	SHEET NAME
M0.1	GENERAL NOTES AND LEGEND
M1.1	FLOOR PLAN - MECHANICAL
M2.1	SECTIONS
M3.1	DETAILS - MECHANICAL
M3.2	DETAILS - MECHANICAL
M3.3	KITCHEN EQUIPMENT
M3.4	KITCHEN EQUIPMENT
M3.5	KITCHEN EQUIPMENT
M3.6	KITCHEN EQUIPMENT
M3.7	KITCHEN EQUIPMENT
M4.1	SCHEDULES - MECHANICAL

18.	CALCULATIONS FOR THE VENTING AREA PROVIDED AND THE LOCATIONS IN THE STORM SHELTER. <ul style="list-style-type: none"><li>PER 703.6.2, OUTDOOR AIR SHALL BE PROVIDED AT A RATE OF 5 CFM PER OCCUPANT.</li><li>88 OCCUPANTS * 5 CFM/OCCUPANT = <b>440 CFM</b>.</li><li>SEE FLOOR PLANS SHEET M1.1 FOR LOCATION.</li></ul>
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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



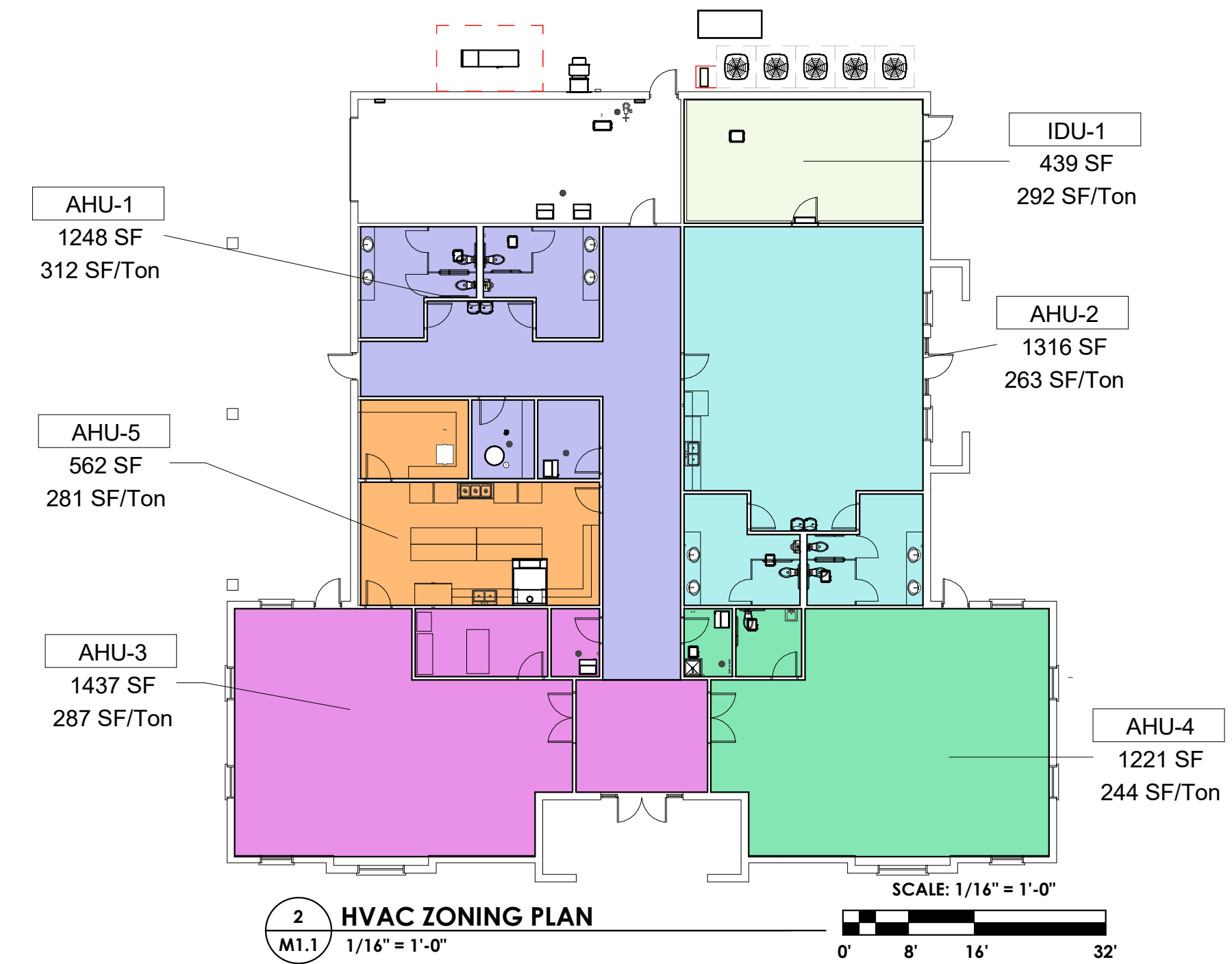


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## FLOOR PLAN - MECHANICAL NEW COMMUNITY BUILDING TRUMANN HOUSING AUTHORITY TRUMANN, ARKANSAS

#	MECHANICAL KEYNOTE LEGEND
M1	PROVIDE MOTORIZED DAMPER WITH END SWITCH INTERLOCKED WITH ASSOCIATED EXHAUST FAN OPERATION. DAMPER SHALL BE IN FULLY OPENED POSITION BEFORE EXHAUST FAN STARTS.
M2	ROUTE 6" EXHAUST DUCT TO MFR. PROVIDED EXHAUST ROOF JACK. PRIME AND PAINT TO MATCH ARCHITECT SPECIFIED FINISHES (TYP.)
M3	ROUTE OUTSIDE AIR DUCT TO ROOF JACK. PRIME AND PAINT TO MATCH ARCHITECT SPECIFIED FINISHES (TYP.)
M4	INSTALL SIDEWALL GRILLE AS LOW AS POSSIBLE ON WALL APPROX. 6" AFF.
M5	INTERLOCK EXHAUST FAN WITH THERMOSTAT SET TO 80°F (ADJ.)
M6	INSTALL ELECTRIC WALL HEATER LOW ON WALL APPROX. 1'-0" AFF.
M7	MECHANICAL SERVICE CLEARANCE (TYP.)
M8	ROUTE REFRIGERANT SUPPLY AND RETURN LINES TO ASSOCIATED INDOOR UNITS PER MANUFACTURER'S RECOMMENDATIONS. MOUNT UNIT ON MIN. 2" CONCRETE PAD. (TYP.)
M9	TRANSFER GRILLE LOCATED HIGH ON WALL, APPROX. 8'-6" (N KITCHEN AND LOW ON WALL, APPROX. 1'-0" IN THE ADJOINING ROOM. SEE DETAIL 8/M4.1 (TYP.)
M10	ROUTE GAS FROM UTILITY MAIN BELOW GRADE TO NEW GAS METER. COORDINATE EXACT ROUTING AND METER LOCATION WITH LOCAL UTILITY.
M11	NEW GAS METER SIZED FOR 1722.8 CFH @ 1/4 PSI. PROVIDE PRESSURE REGULATOR AS REQUIRED. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY AND PAY ALL INCURRED COSTS. FINAL GAS METER LOCATION TO BE DETERMINED BY LOCAL UTILITY.
M12	ROUTE 10" DIA. EXHAUST AIR DUCT TO MFR. PROVIDED SIDEWALL CAP. PAINT PER ARCHITECTS SPECIFIED FINISHES.
M13	PROVIDE ANSUL SHUT-OFF VALVE NEAR HOOD WITH MANUAL SHUT OFF VALVE DIRECTLY UPSTREAM.
M15	ROUTE OUTSIDE AIR DUCT TO SIDEWALL CAP. PRIME AND PAINT TO MATCH ARCHITECT SPECIFIED FINISHES (TYP.)
M16	WHEN FEMA VENTILATION MANUAL ACTUATION DEVICE IS DEPRESSED, ALL FEMA OUTSIDE AIR AND RELIEF DAMPER ACTUATORS SHALL MOTOR OPEN. WHEN FEMA VENTILATION MANUAL ACTUATION DEVICE IS IN THE RESET POSITION, ALL FEMA OUTSIDE AIR AND RELIEF DAMPERS SHALL MOTOR CLOSED.
M17	PROVIDE 120VAC MOTORIZED DAMPER TO OPERATE WITH VENTILATION FAN IN ACCORDANCE WITH ICC 500 (TORNADO SHELTER) AT 5 CFM PER OCCUPANT. MECHANICAL VENTILATION AND MOTORIZED DAMPER TO BE CONNECTED TO STANDBY POWER SYSTEM.
M18	SHADING INDICATES EXTERIOR DUCTWORK. EXTERIOR DUCTWORK TO BE SLOPED. PROVIDE EXTERIOR WEATHERPROOF INSULATION. SEE DETAIL. (TYP.)



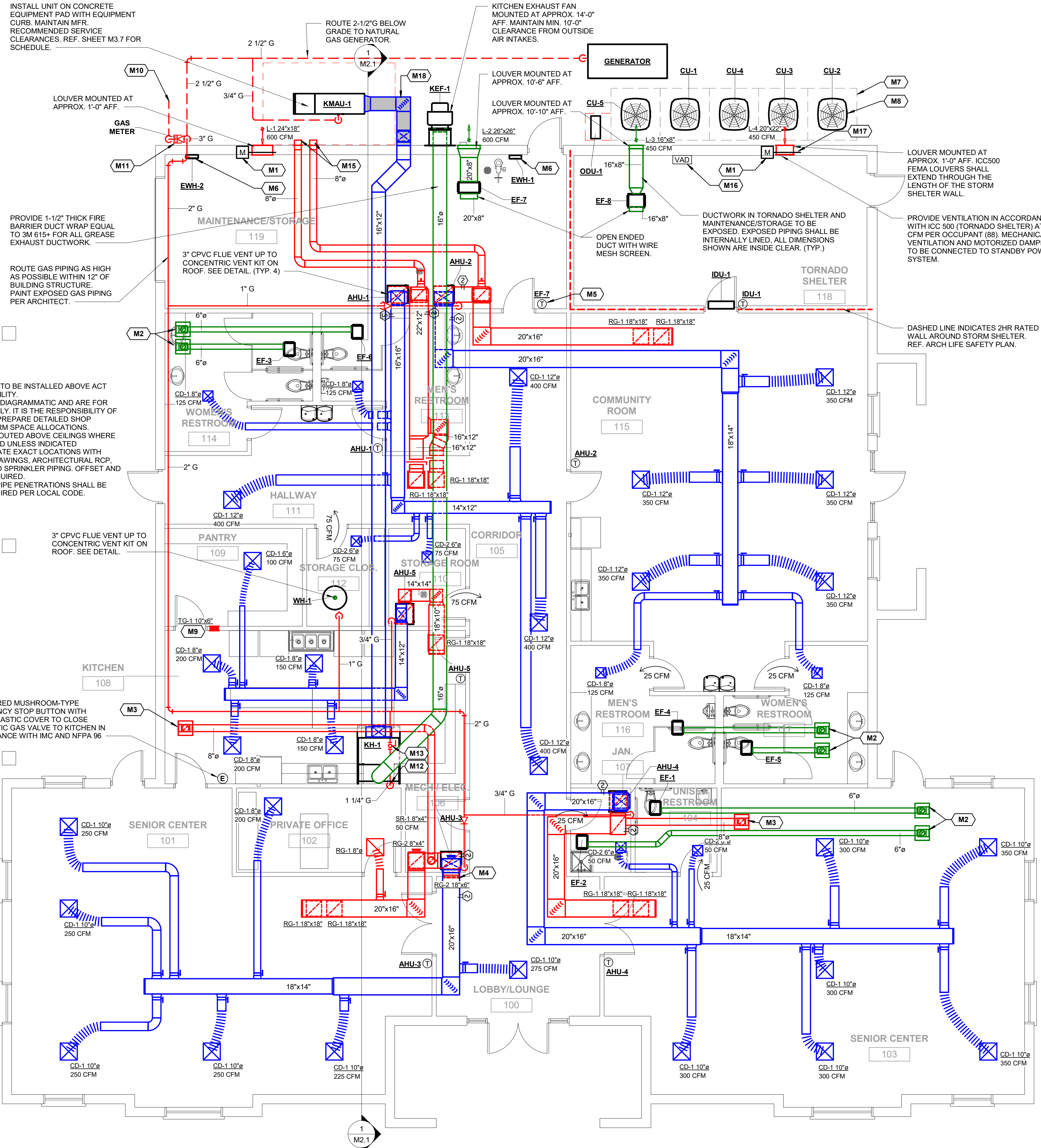
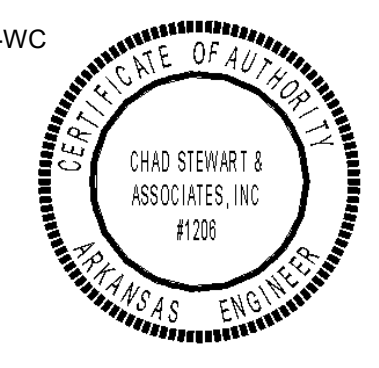
EQUIVALENT LENGTH (FT)	MAXIMUM CFH PER PIPE SIZE							
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
200	34	71	134	275	412	794	1,270	2,240

NOTES:  
THE STEEL PIPE MATERIAL PORTION OF THE LOW PRESSURE (7" W.C.) GAS SYSTEM IS SIZED IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE (IFGC) TABLE 402.4(2). INLET PRESSURE = < 2 PSI, PRESSURE DROP = 0.5 IN-WC, SPECIFIC GRAVITY = 0.60, BASED ON TOTAL DEVELOPED LENGTH OF 200 FT AND FLOW RATE OF 1722.8 CFH.

Mark	GAS DEMAND (CFH)	GAS CONNECTION SIZE (NPT)
AHU-1	60	3/4"
AHU-2	60	3/4"
AHU-3	80	3/4"
AHU-4	60	3/4"
AHU-5	40	3/4"
GENERATOR	1055	2-1/2"
KMAU-1	49.8	3/4"
RANGE	198	1-1/2"
WH-1	120	1"
1722.8		

- NOTES:  
1. LONGEST EQUIVALENT RUN ESTIMATED AT 200 FT.  
2. PAY ALL INCURRED METERING COSTS WITH LOCAL UTILITY AS REQUIRED.  
3. PROVIDE GAS PIPING WITH A MINIMUM OF 7 IN-WC ON GAS LOW PRESSURE SIDE.

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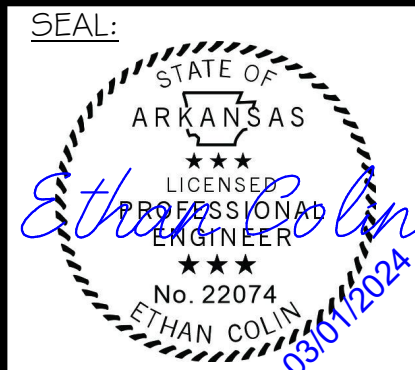


1 FLOOR PLAN - HVAC  
M1.1 3/16" = 1'-0"  
SCALE: 3/16" = 1'-0"  
0' 3' 6' 12'

- NOTE:  
1. ALL VOLUME DAMPERS TO BE INSTALLED ABOVE ACT CEILING FOR ACCESSIBILITY.  
2. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND CONFIRM SPACE ALLOCATIONS. ALL DUCTS SHALL BE ROUTED ABOVE CEILINGS WHERE CEILINGS ARE PROVIDED UNLESS INDICATED OTHERWISE. COORDINATE EXACT LOCATIONS WITH STRUCTURAL SHOP DRAWINGS, ARCHITECTURAL RCP, LIGHTS, PLUMBING, AND SPRINKLER PIPING. OFFSET AND EXTEND DUCTS AS REQUIRED.  
3. ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE FIRESTOPPED AS REQUIRED PER LOCAL CODE.

# MECHANICAL KEYNOTE LEGEND  
 IM4 INSTALL SIDEWALL GRILLE AS LOW AS POSSIBLE ON WALL APPROX. 6" AFF.

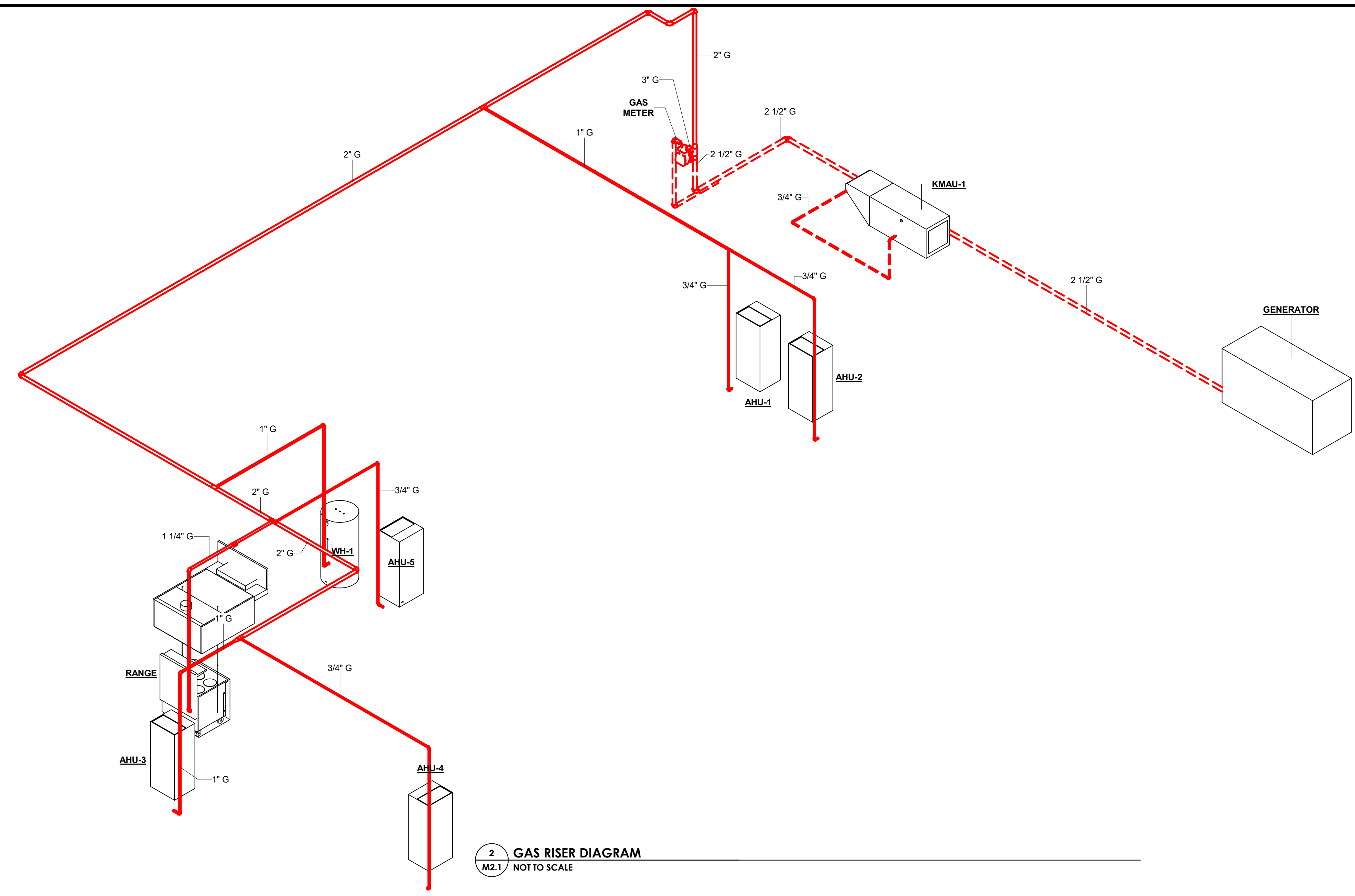
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 DRAWN BY: ETC  
 DESIGNER: ETC  
 CHECKED BY: GW



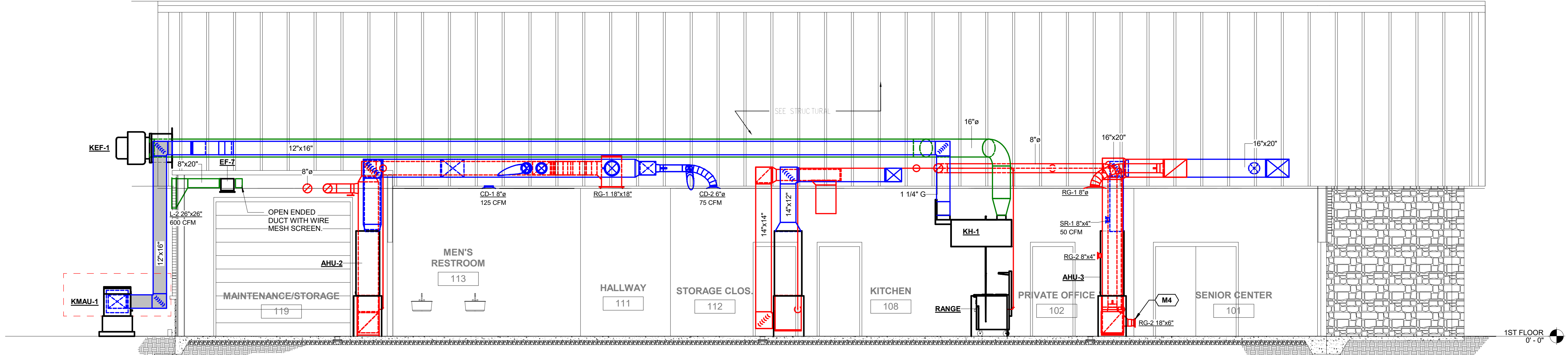
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 Fax: 901-867-5331  
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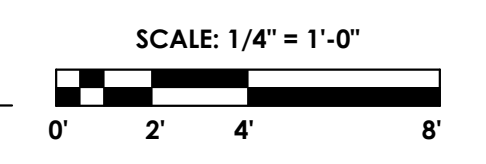
SECTIONS  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS



2 GAS RISER DIAGRAM  
 M2.1 NOT TO SCALE



1 MECH. SECTION 1  
 M2.1 1/4" = 1'-0"



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER:  
**M2.1**  
 PROJECT:  
 WAA: 1314-33

**CSA** ENGINEERING  
 Chad Stewart & Associates, Inc.  
 9720 Village Circle Lakeland, TN 38002  
 Phone 901-260-7850 www.CSAengineeringinc.com  
 Memphis



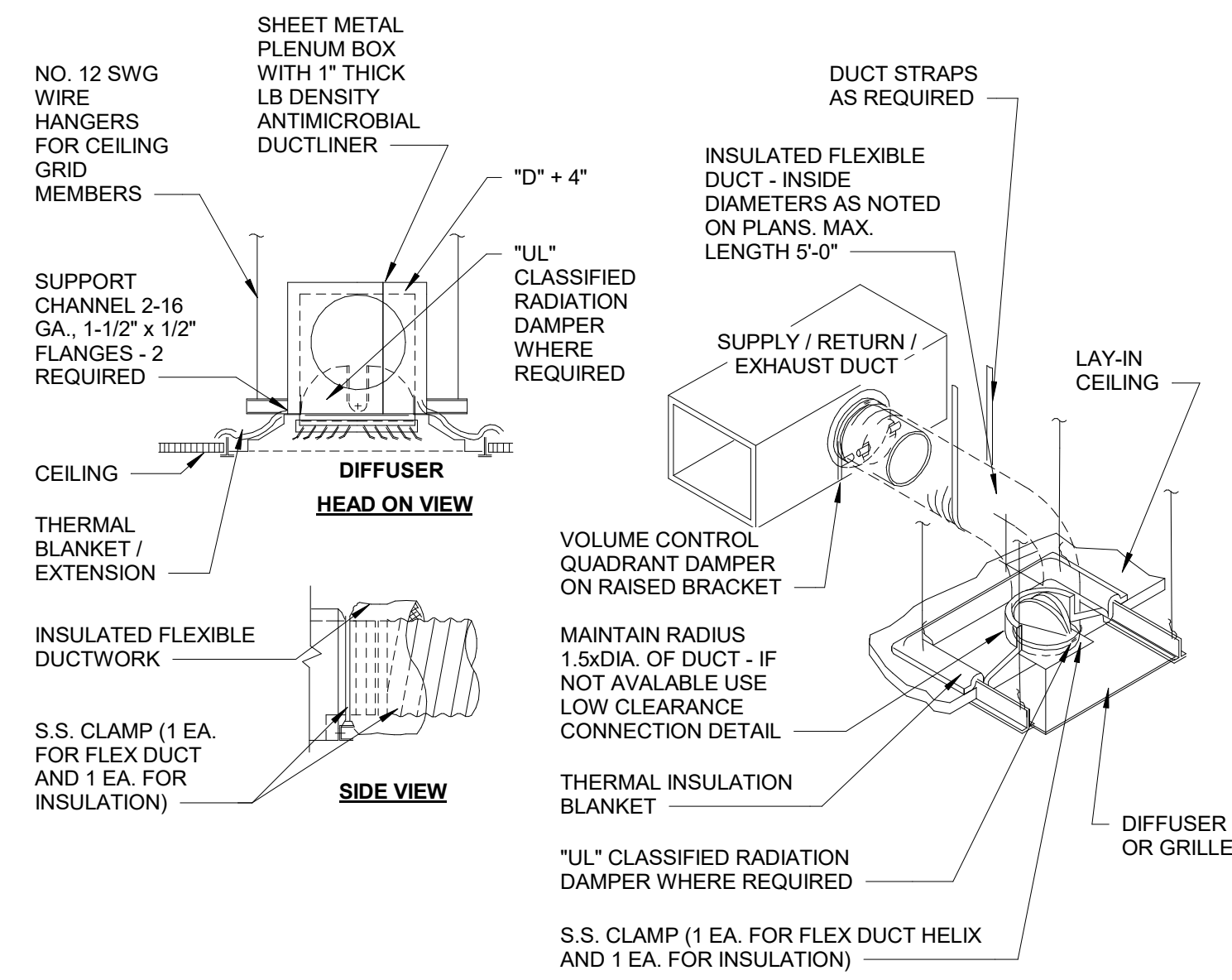
Autodesk Docs://23617 Trumann HA Community Building/MEP\_23617\_v24.rvt



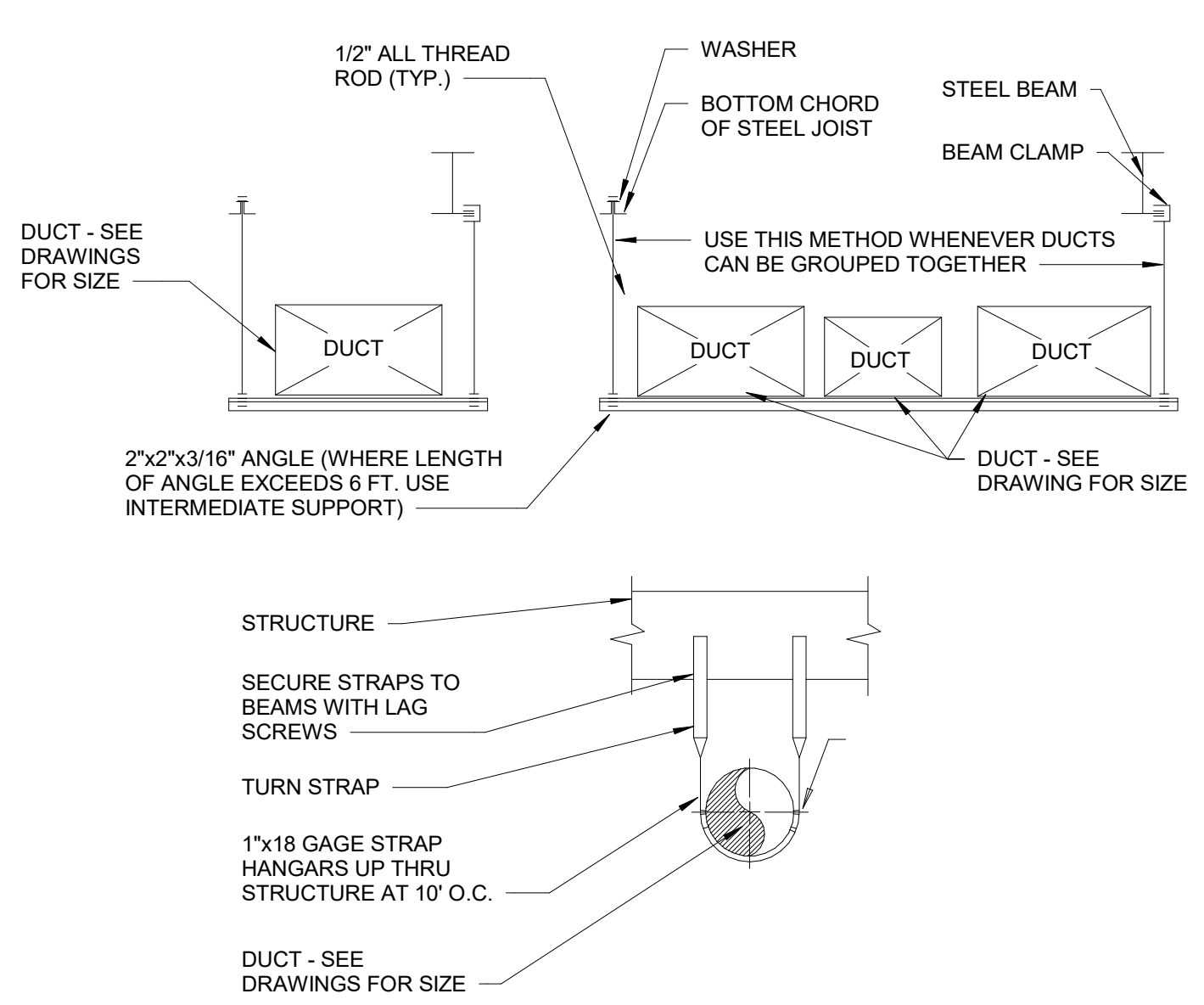
# WILBANKS ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
Arlington, Tennessee 38002  
Phone: 901-867-5320  
Fax: 901-867-5331  
Website: www.wilbanksa.com

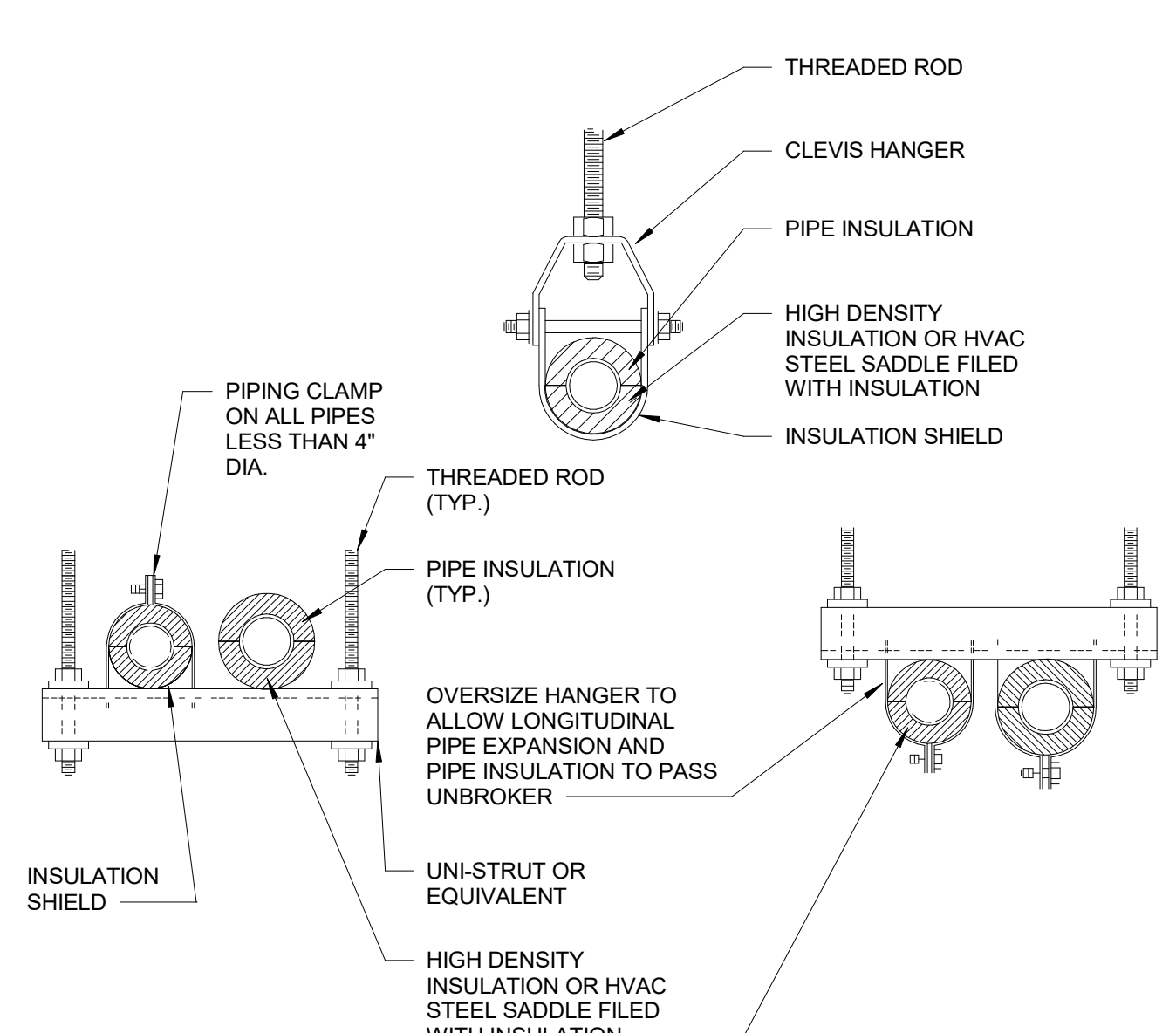
## DETAILS - MECHANICAL NEW COMMUNITY BUILDING TRUMANN HOUSING AUTHORITY TRUMANN, ARKANSAS



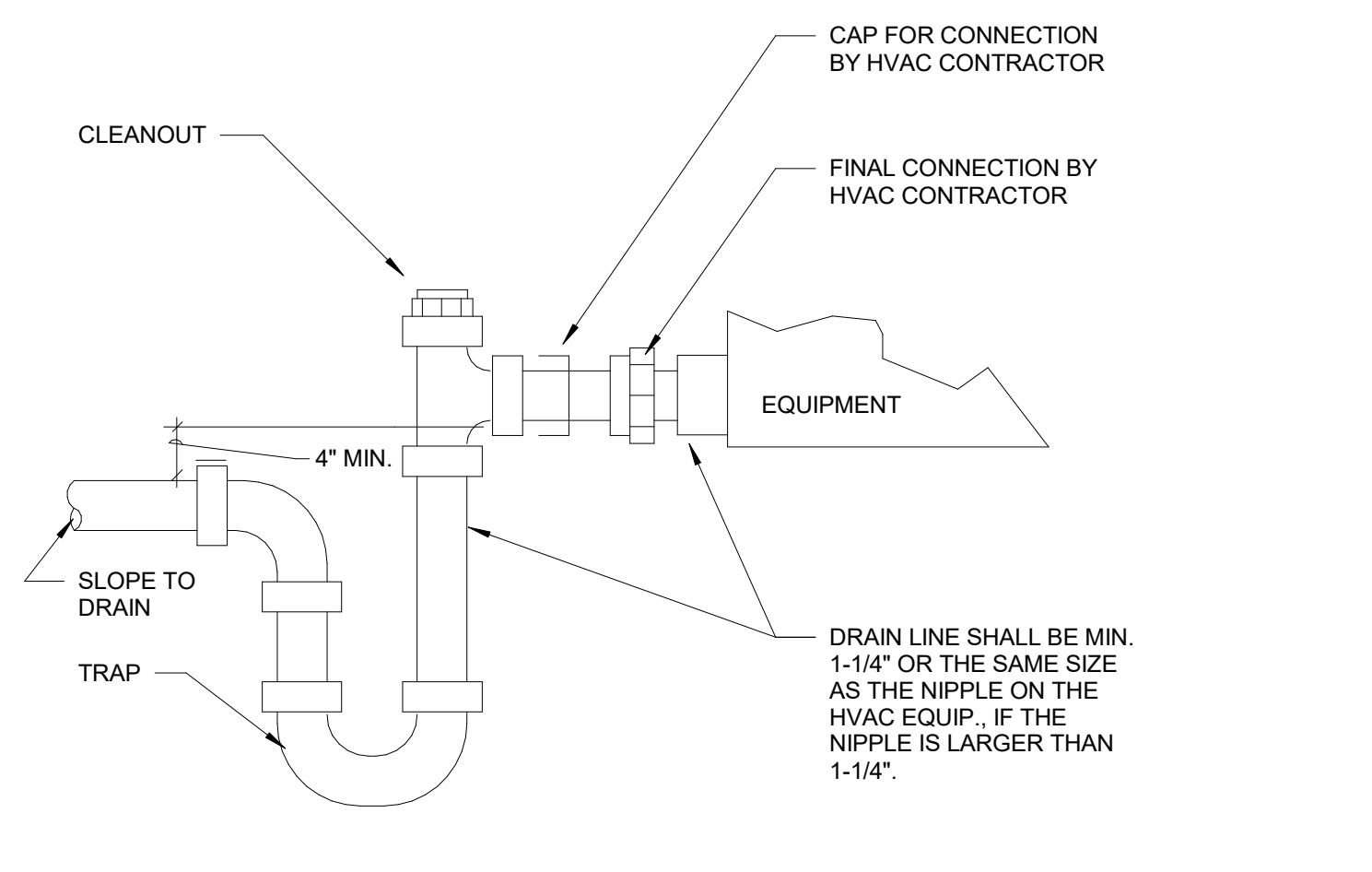
**1 DIFFUSER & GRILLE DETAIL**  
M3.1 NOT TO SCALE



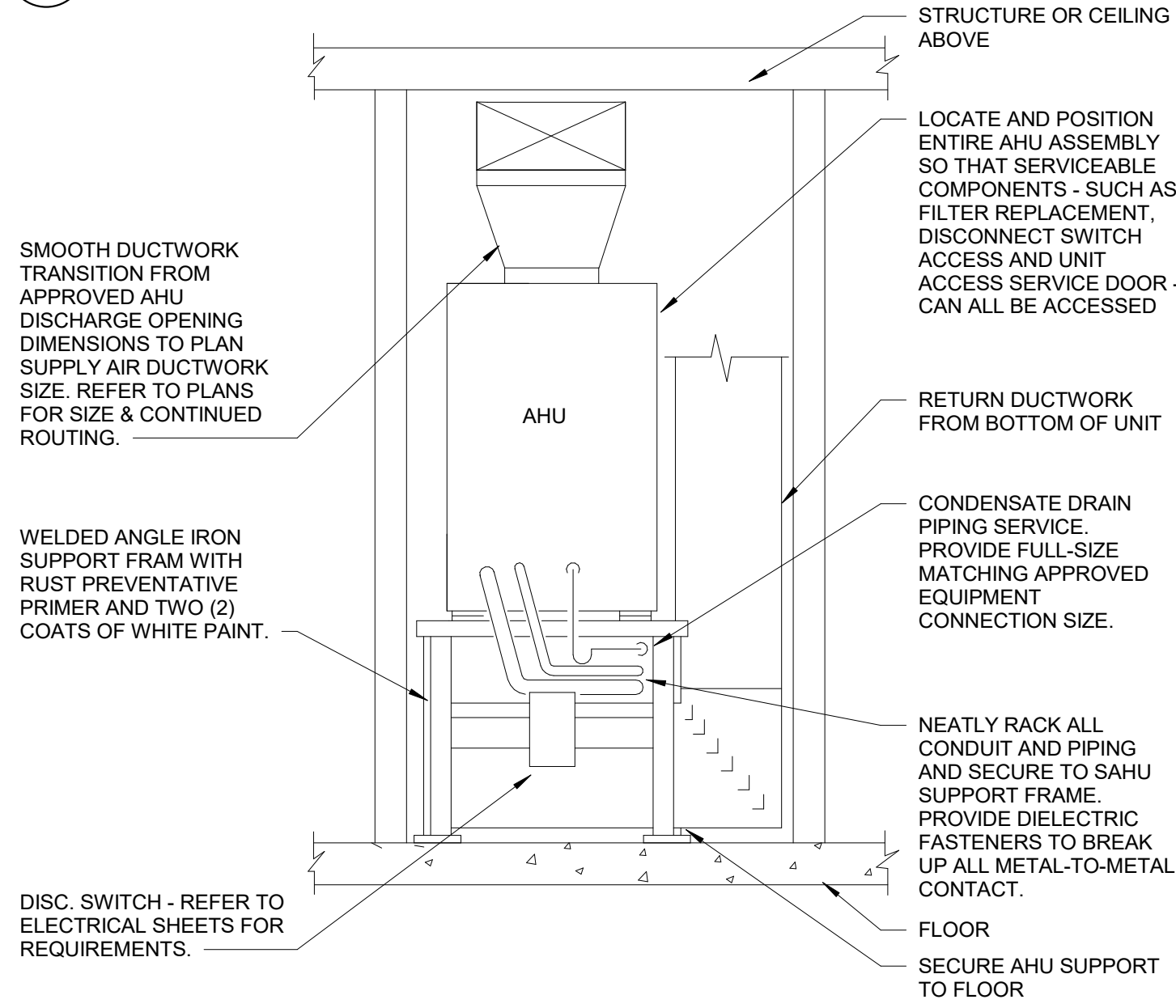
**2 LOW PRESS. DUCT SUPPORT DETAIL**  
M3.1 NOT TO SCALE



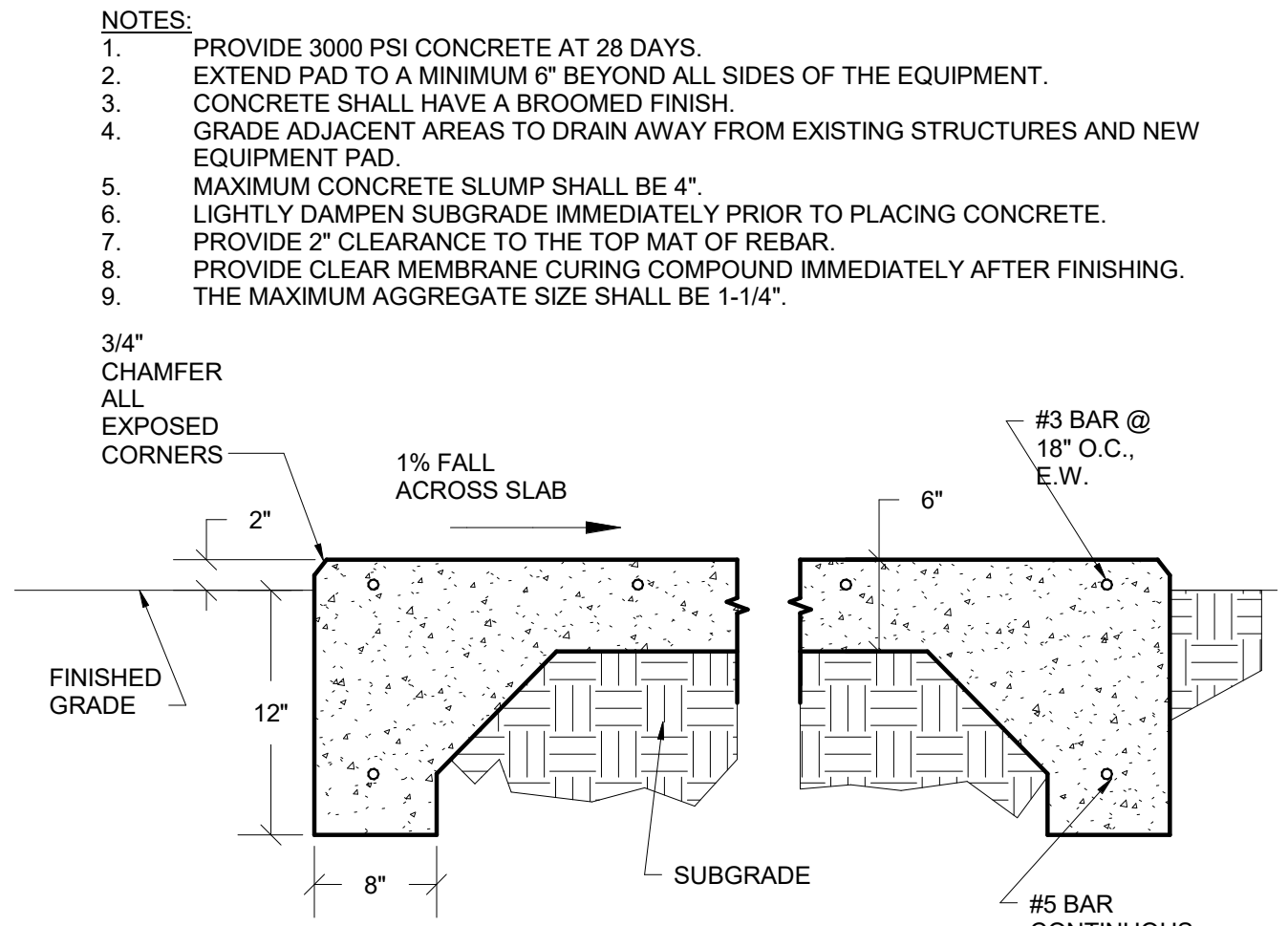
**3 PIPE SUPPORT DETAIL**  
M3.1 NOT TO SCALE



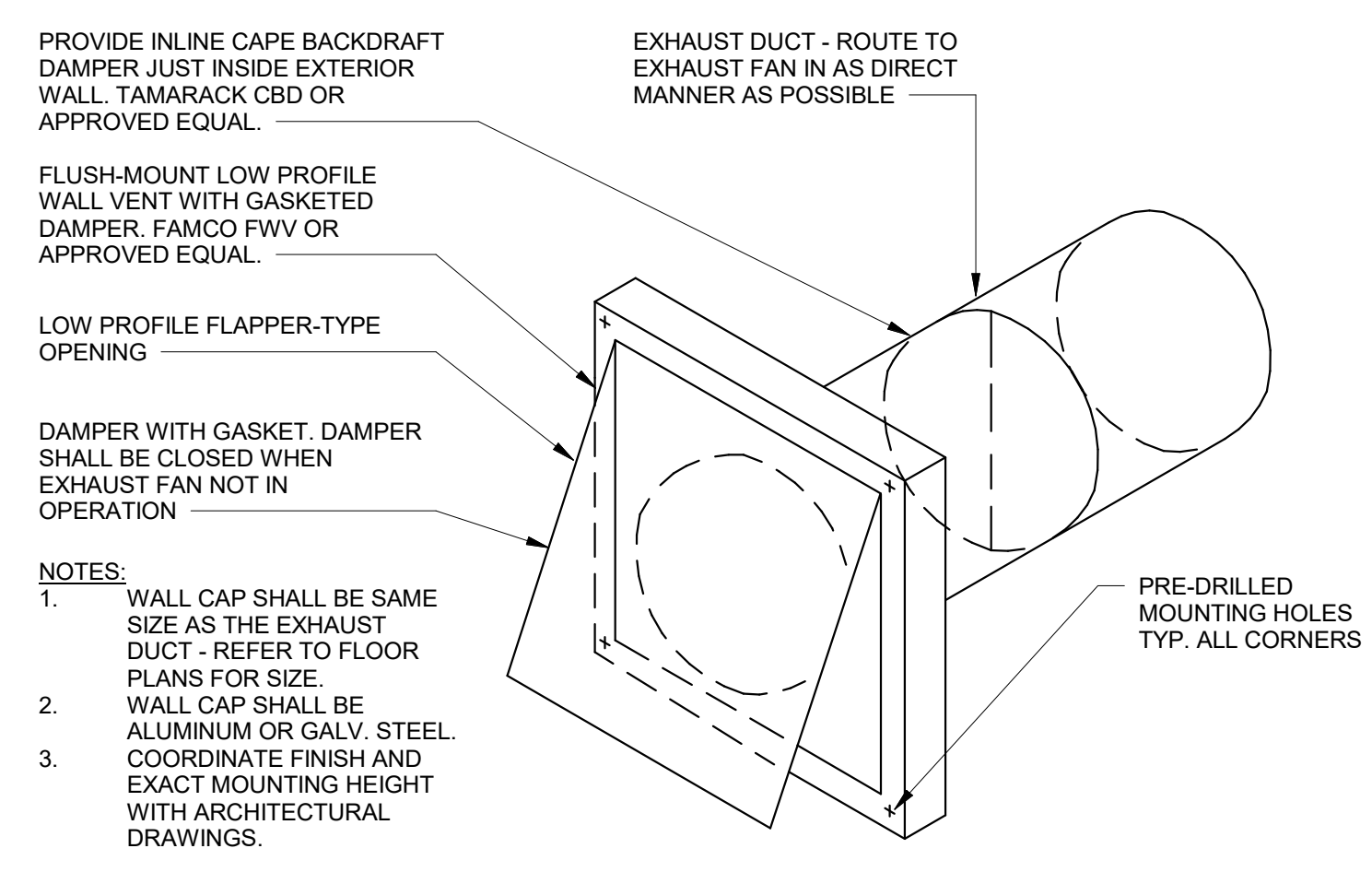
**4 CONDENSATE TRAP PIPING DETAIL**  
M3.1 NOT TO SCALE



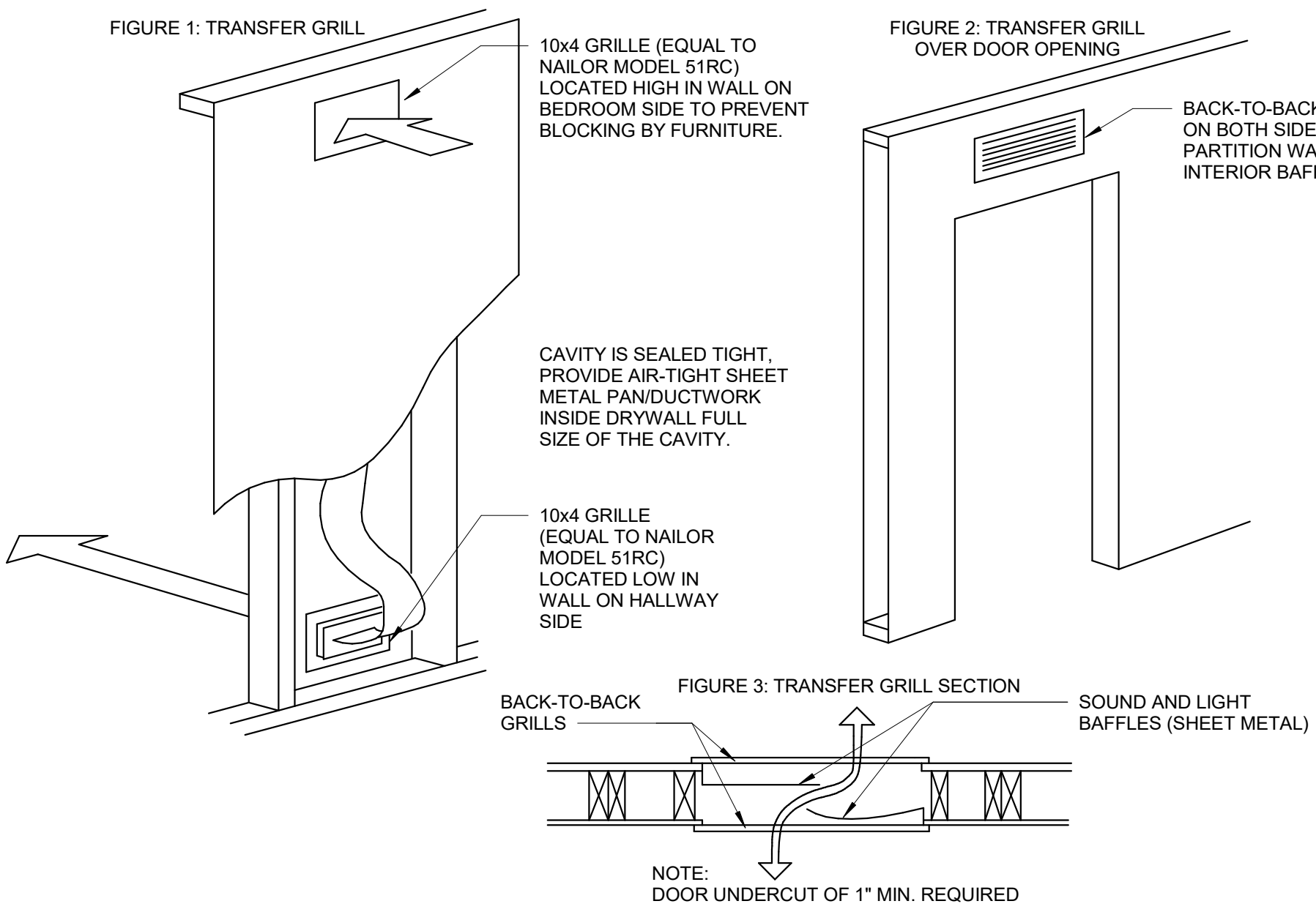
**5 SPLIT SYSTEM AHU DETAIL**  
M3.1 NOT TO SCALE



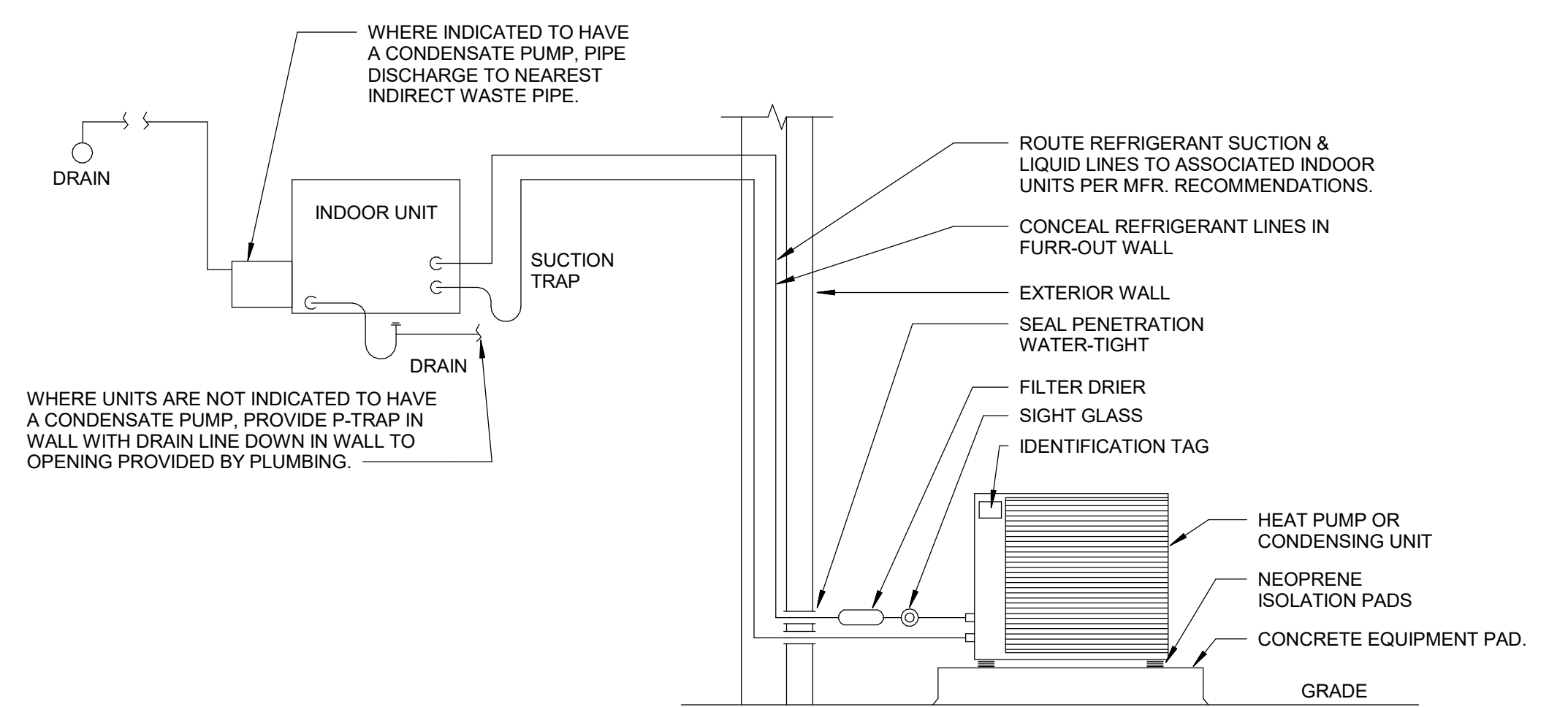
**6 EQUIPMENT PAD DETAIL**  
M3.1 NOT TO SCALE



**7 SIDEWALL EXHAUST CAP DETAIL**  
M3.1 NOT TO SCALE

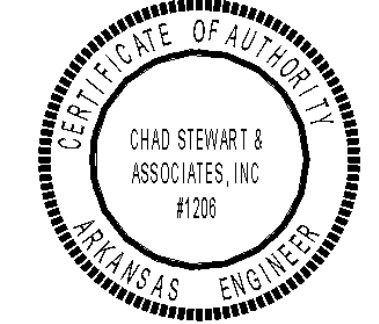


**8 RETURN AIR TRANSFER GRILLE DETAIL**  
M3.1 NOT TO SCALE

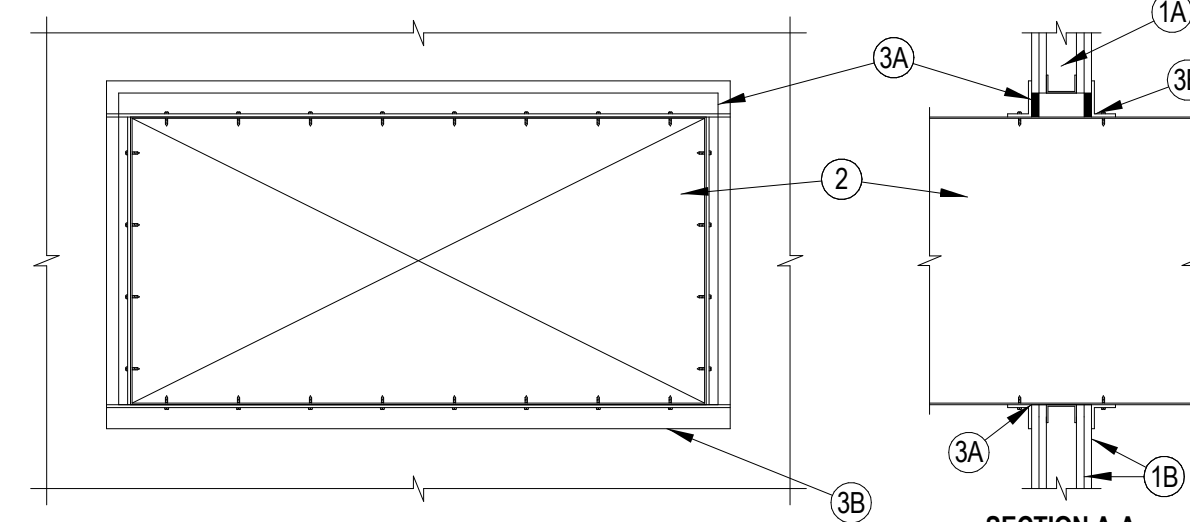


**9 CONDENSING UNIT REFRIGERANT DETAIL**  
M3.1 NOT TO SCALE

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



ANSI/UL1479 (ASTM E814)	CANULC S115
F Rating — 1 and 2 Hrs (See Items 1 and 3)	F Rating — 1 and 2 Hrs (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 1 and 2 Hrs (See Items 1 and 3)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	L Rating At Ambient — Less Than 1 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft	L Rating At 400 F — Less Than 1 CFM/sq ft



**1. Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board\* — Nom 5/8 in. (16 mm) thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 1300 in<sup>2</sup> (8387 cm<sup>2</sup>) with the dimension of 50 in. (1270 mm). The hourly F, FH rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Duct — Nom 24 in. by 48 in. (6096 by 1219 mm) (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed within the firestop system. The annular space shall be min 0 (point contact) in. to a max 2 in. (51 mm). Duct to be rigidly supported on both sides of the wall assembly.

3. Firestop System — The firestop system shall consist of the following:

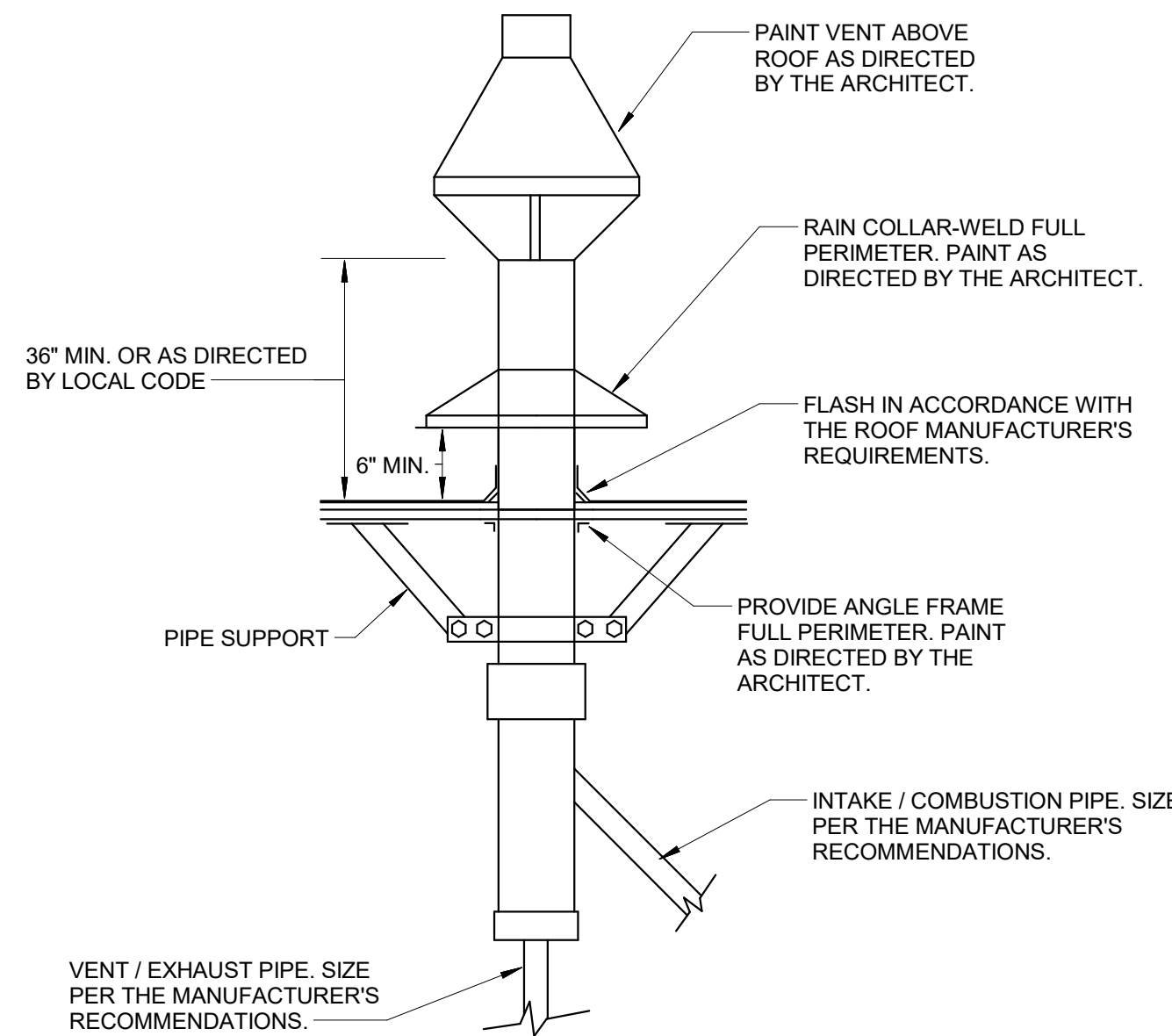
A. Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. (13 mm) diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG Sealant.

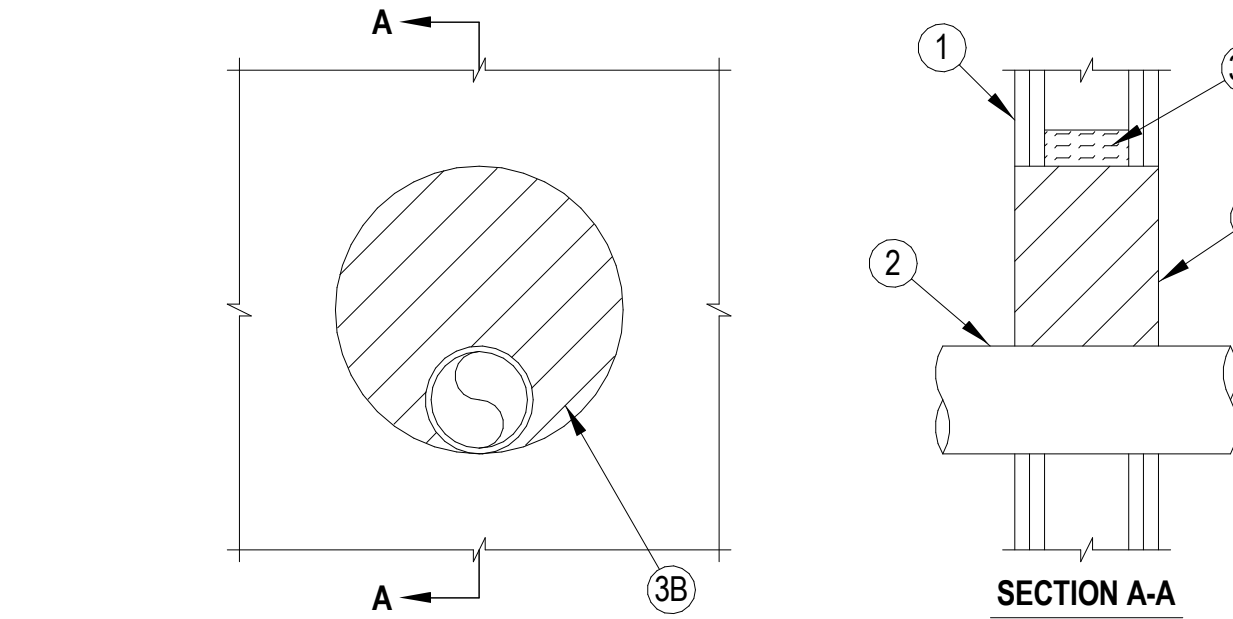
B. Steel Retaining Angle — No. 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. (51 mm) overlap on the duct and a min 1 in. (25 mm) overlap on the gypsum board assembly on both surfaces of wall. 2 in. (51 mm) leg of angle secured to duct with min No. 8 by 3/4 in. (19 mm) long sheet metal screws, spaced a max of 6 in. (152 mm) OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.

\*Bearing the UL Classification Mark

**1 REC. DUCT THRU RATED WALL**  
M3.2 NOT TO SCALE



**4 CONCENTRIC VENT KIT DETAIL**  
M3.2 NOT TO SCALE



**2. Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) deep, fabricated from 25 MSG galv steel, spaced max 24 in. (610 mm) OC.

B. Gypsum Board\* — The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam opening is 12 in. (305 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant — One metallic pipe, conduit or tube to be installed either concentrically or eccentrically within the firestop system. The min annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (point contact) to max 7-7/8 in. (200 mm). Pipe conduit or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubes may be used:

A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit — Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit.

D. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic conduit.

E. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

F. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Glass fiber or mineral wool batt insulation firmly packed within the wall cavity around the opening as a permanent form.

B. Fill, Void or Cavity Material\* — Foam — Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. (121 mm). Min fill material thickness for 2 hr F Rating is 6 in. (152 mm).

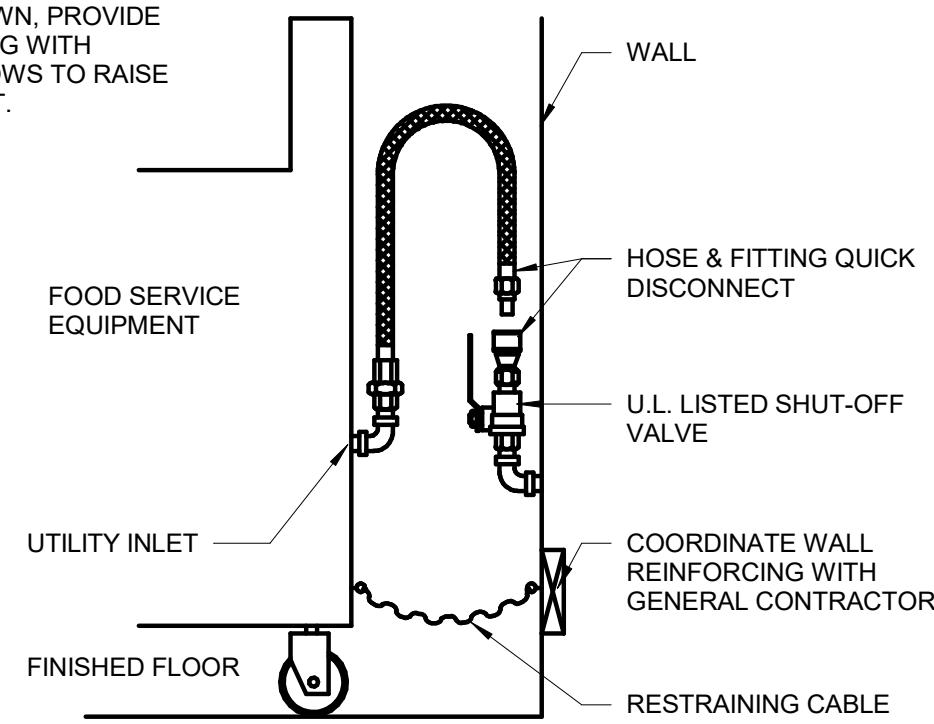
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 620 Fire Foam

\*Bearing the UL Classification Mark

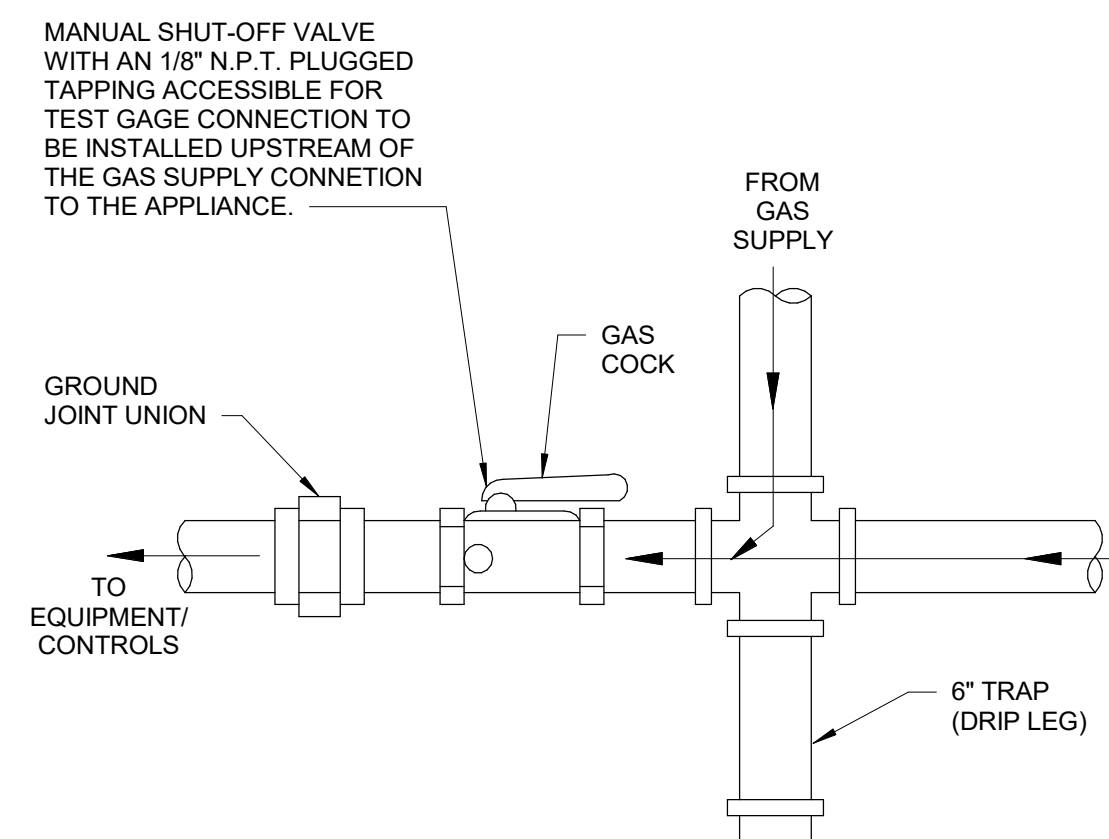


**2 PIPE THRU RATED WALL**  
M3.2 NOT TO SCALE

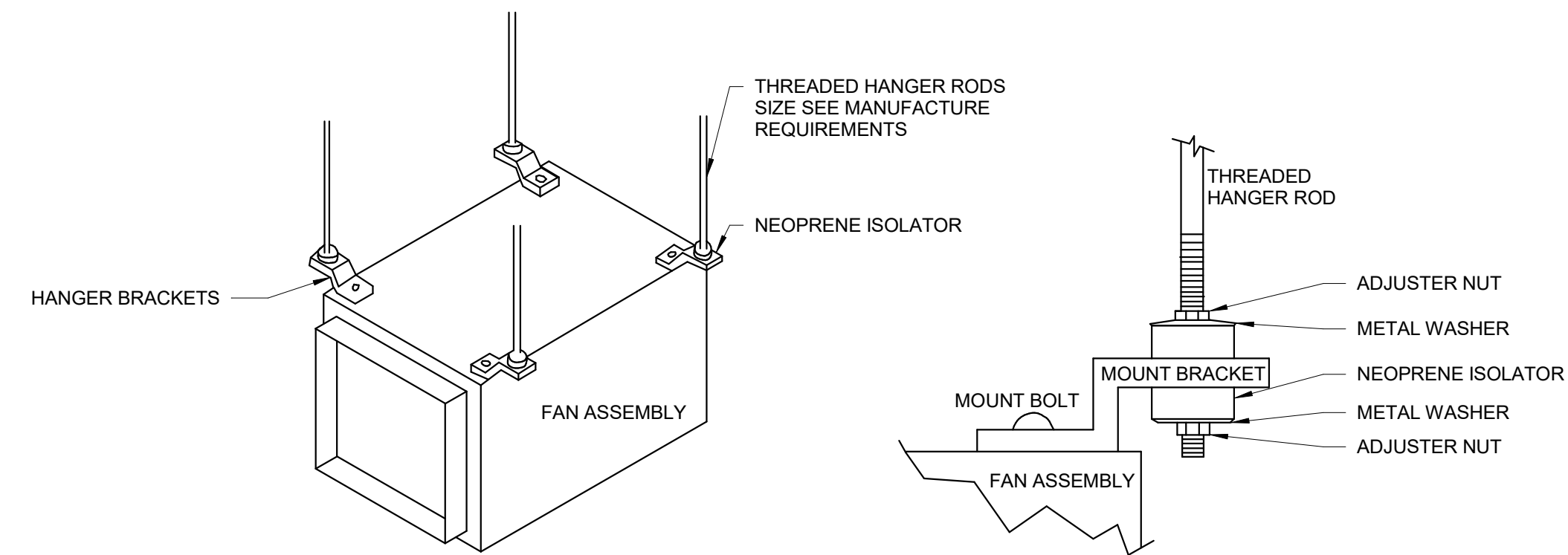
NOTE: IF UTILITY IS NOT AT FULL HEIGHT SHOWN, PROVIDE PIPING WITH ELBOWS TO RAISE INLET.



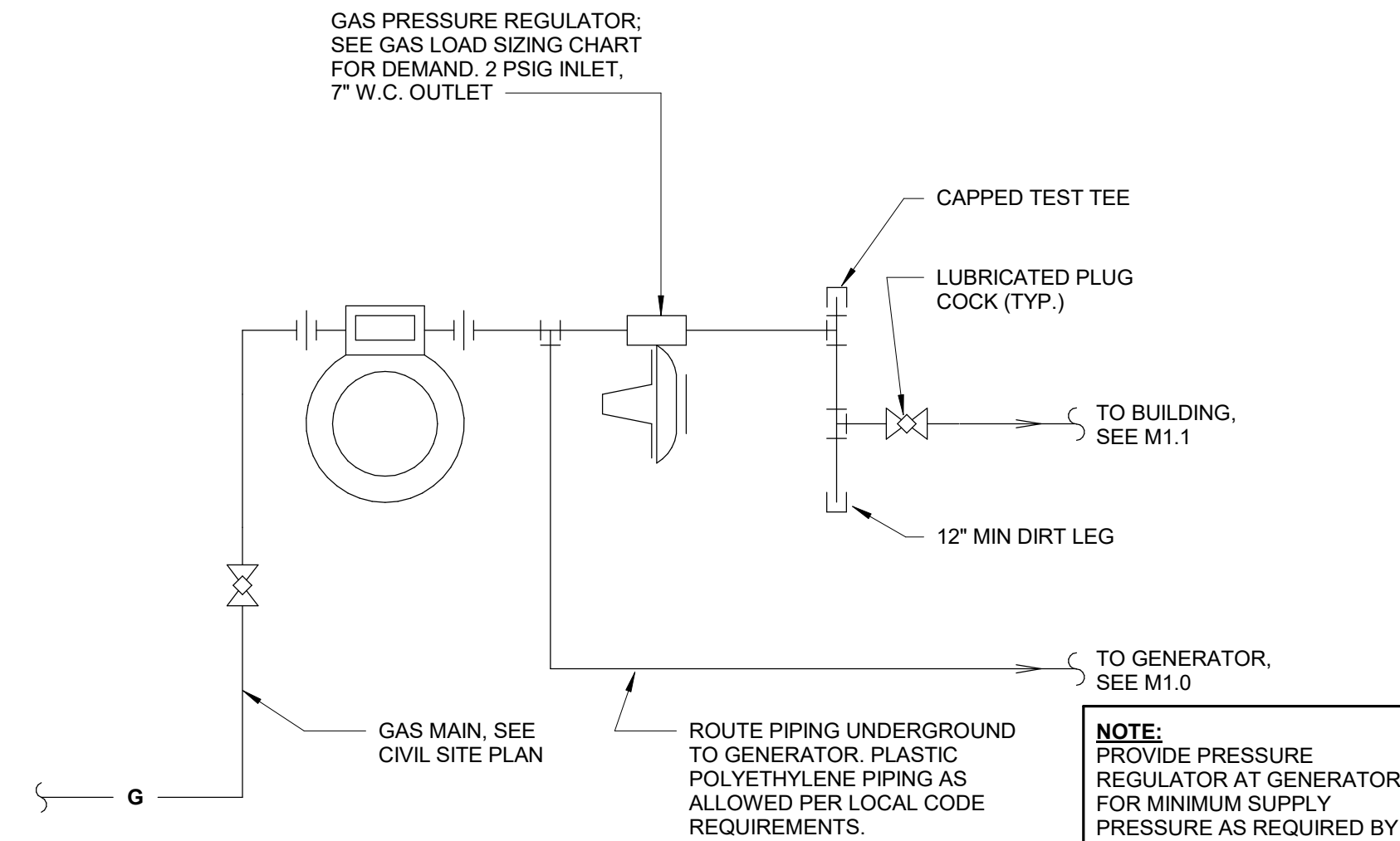
**5 GAS CONNECTION TO KITCHEN EQUIPMENT**  
M3.2 NOT TO SCALE



**7 GAS CONNECTION TO HVAC EQUIPMENT**  
M3.2 NOT TO SCALE



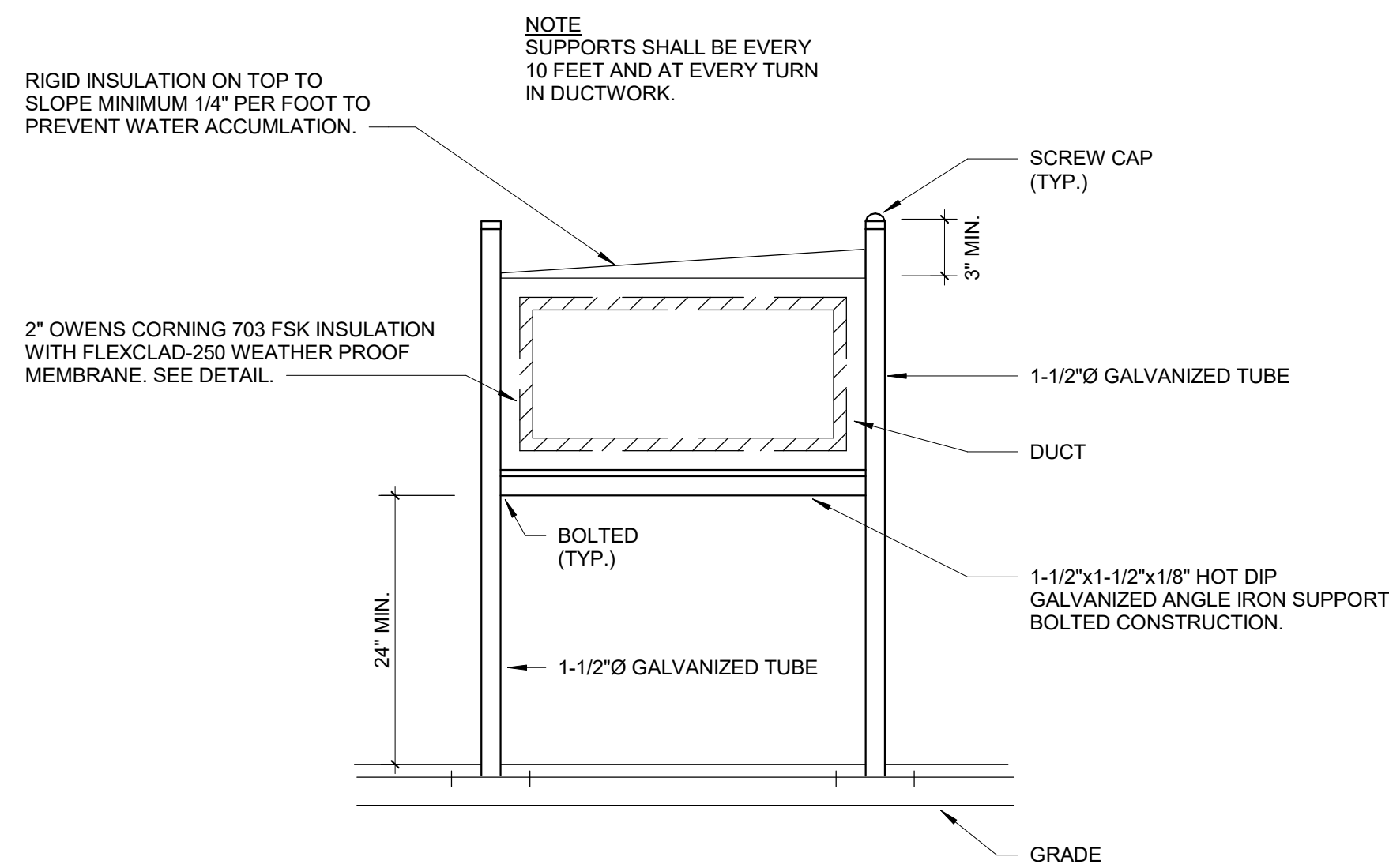
**3 NEOPRENE HANGING ISOLATOR DETAIL**  
M3.2 NOT TO SCALE



NOTE: GAS METER AND REGULATOR BY LOCAL GAS COMPANY; ALL COSTS WILL BE INCURRED BY THE CONTRACTOR INCLUDING CONCRETE, PAD WHEN REQUIRED. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES SHOULD BE REVIEWED FOR REQUIREMENTS SPECIFIC TO LOCALITY.

NOTE: PROVIDE PRESSURE REGULATOR AT GENERATOR FOR MINIMUM SUPPLY PRESSURE AS REQUIRED BY MANUFACTURER.

**6 GAS METER DETAIL**  
M3.2 NOT TO SCALE



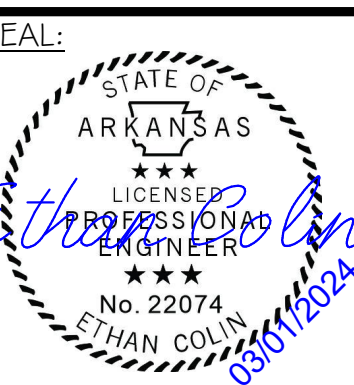
**8 EXTERIOR DUCTWORK DETAIL**  
M3.2 NOT TO SCALE

**CSA** ENGINEERING  
Chad Stewart & Associates, Inc.  
9720 Village Circle  
Phone 901-260-7850  
Lakeland, TN 38002  
www.CSAengineeringinc.com  
Memphis



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

DATE: 03-01-2024  
DRAWN BY: ETC  
DESIGNER: ETC  
CHECKED BY: GW



**WILBANKS**  
ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
Arlington, Tennessee 38002  
Phone: 901-867-5220  
Fax: 901-867-5331  
Website: www.wilbanks.com

DETAILS - MECHANICAL  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

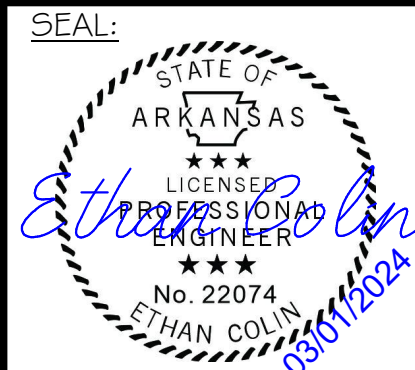
SHEET NUMBER:

**M3.2**

PROJECT:

WAA: 1314-33

DATE: 03-01-2024  
 DRAWN BY: ETC  
 DESIGNER: ETC  
 CHECKED BY: GW



**WILBANKS**  
 ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
 Arlington, Tennessee 38002  
 Phone: 901-867-5200  
 Fax: 901-867-5331  
 Website: www.wilbanksa.com

KITCHEN EQUIPMENT  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**M3.3**  
 PROJECT:  
 WAA: 1314-33

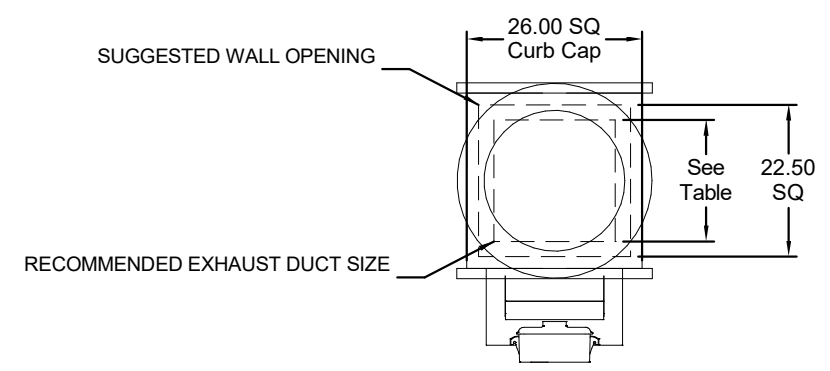
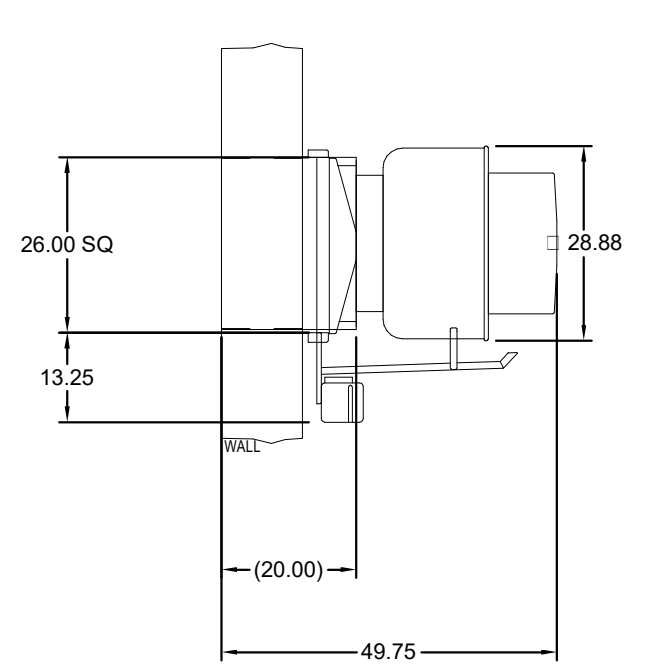
Direct Drive Upblast Centrifugal Wall Exhaust Fan

MARK INFORMATION		FAN INFORMATION					MOTOR INFORMATION						
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1	CUE-140HP-VG	850	1.25	1,579	0.32	99	0.5	115/60/1	OP	1725	1	9.8

\*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory\*

KEF-1 : SELECTED OPTIONS AND ACCESSORIES

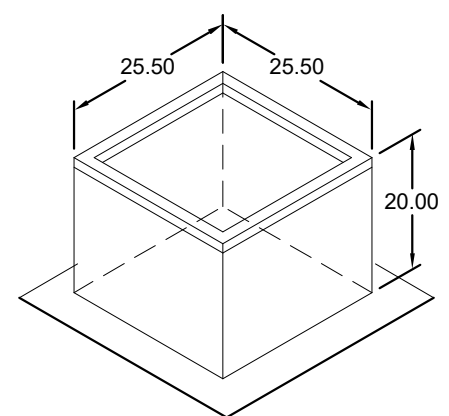
- Larger Curb Cap Size - 26 Square
- Sidewall Mounting - Fan Configured for Wall-Mounted Applications
- Curb will be Through Wall, 12 in. Wall Thickness
- UL/CUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
- Switch, NEMA-1, Toggle, Hinge, Factory Installed
- High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
- Grease Pan Kit - Containment Configured for Wall-Mounted Applications (PN:879137)
- Grease Trap (PN:475538)
- Conduit Chase Qty 1



DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ

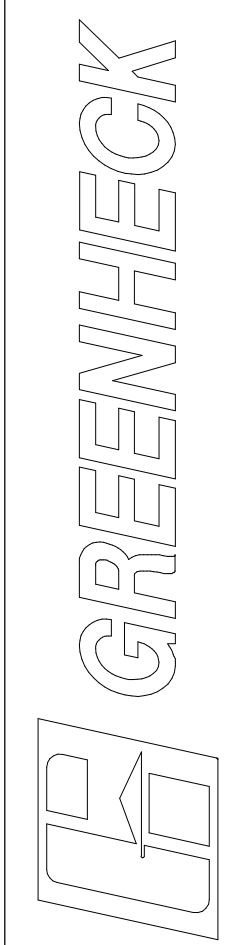
NOTE: SUGGESTED WALL OPENING WITH ROOF CURB - 26  
 DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.  
 CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON  
 MOTOR, ADAPTER, AND/OR HINGE BASE.



PROJECT: 3/4/2024  
 MARK: KEF-1  
 TRUMANN HOUSING AUTHORITY

AIR COMPONENTS INC. - 1977  
 9: BRAD GRAMMER  
 BRADG@AIRCOMPINC.COM 9;  
 (971)382-1884



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

**CSA** ENGINEERING  
 Chad Stewart & Associates, Inc.  
 9720 Village Circle Lakeland, TN 38002  
 Phone 901-260-7850 www.CSAengineeringinc.com  
 Memphis





**WILBANKS**  
ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
Arlington, Tennessee 38002  
Phone: 901-867-5220  
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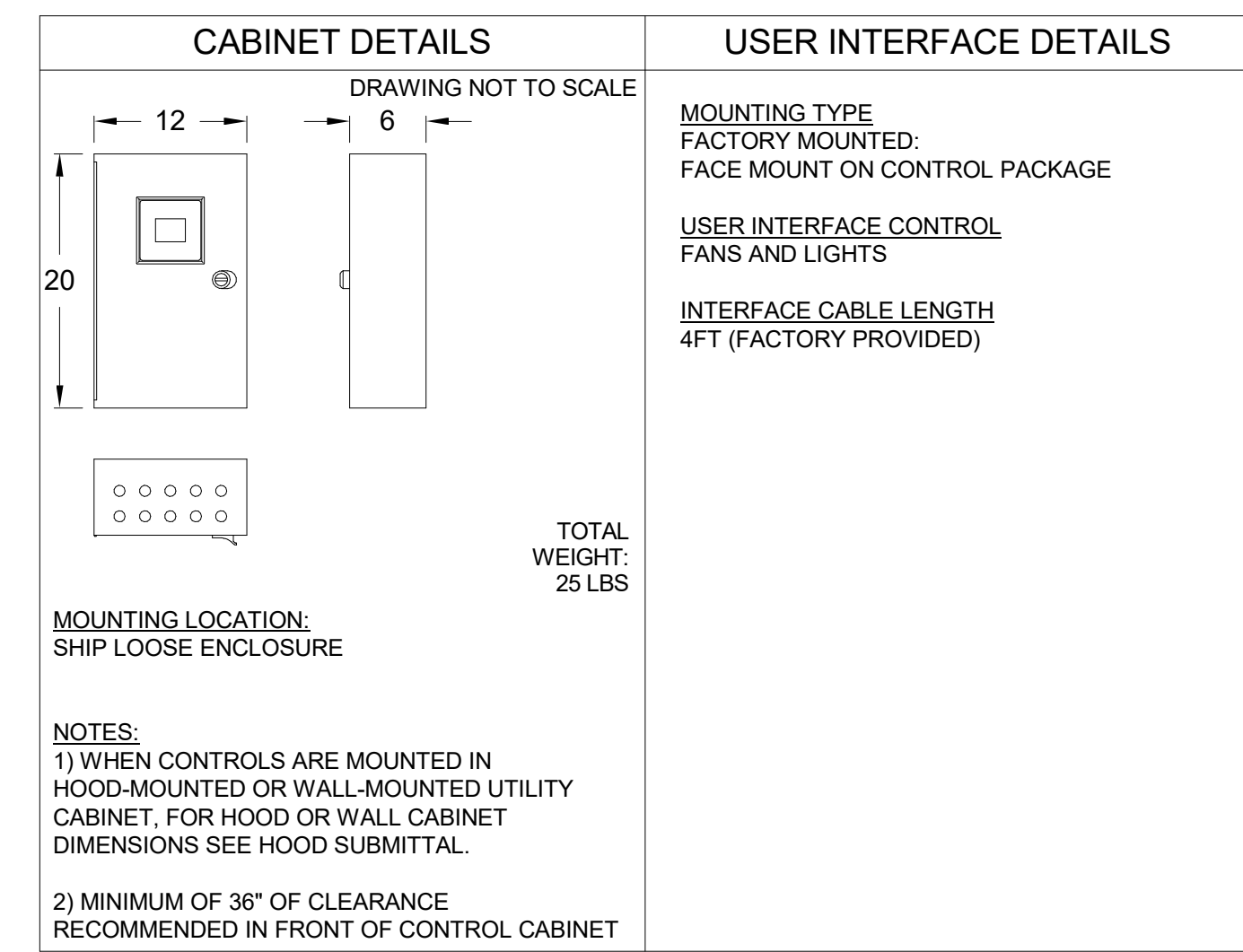
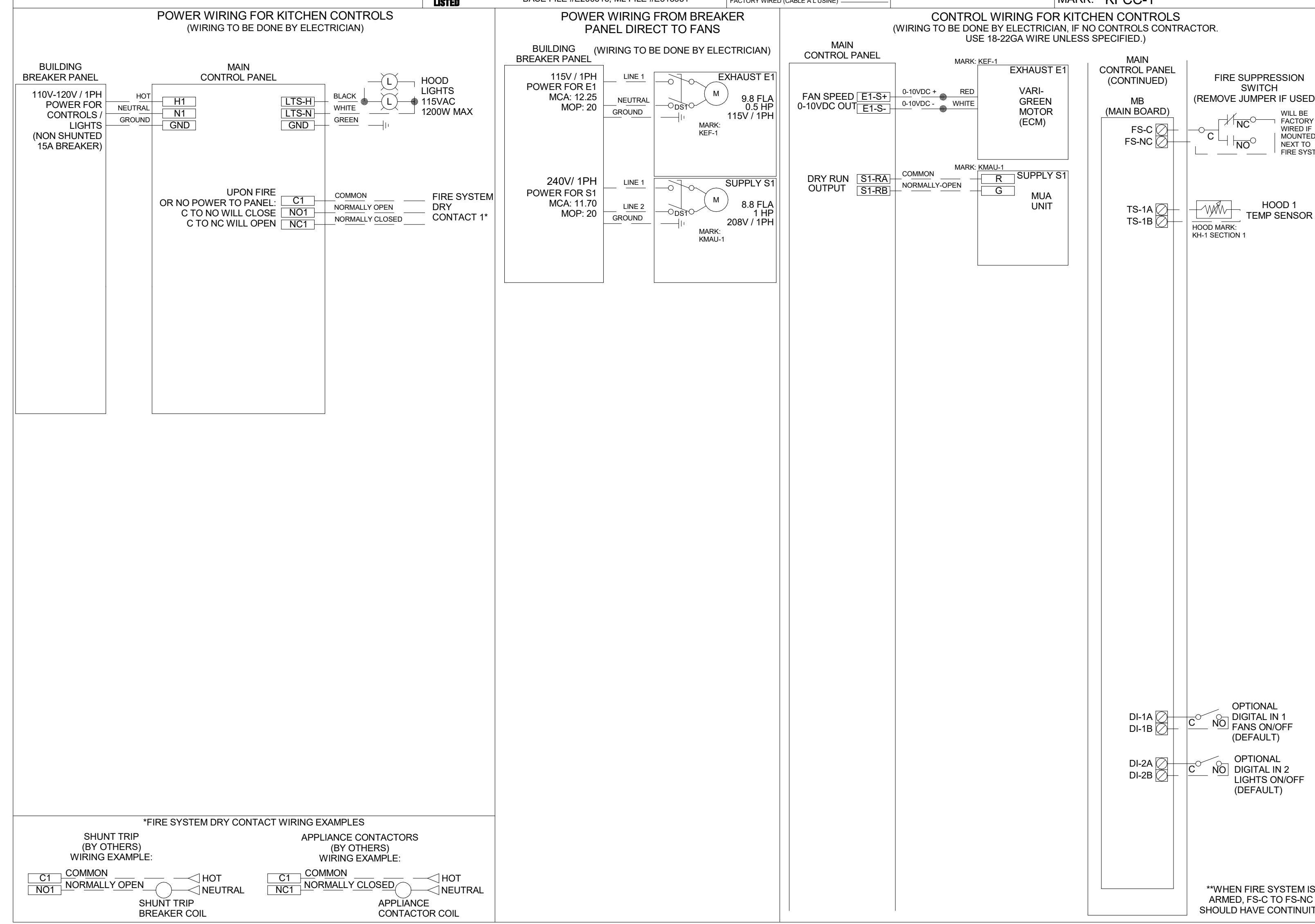
KITCHEN EQUIPMENT  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED											
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
KFCC-1	GKC-CV-S-11-1-1-0	SHIP LOOSE ENCLOSURE	FULL COLOR TOUCHSCREEN	FACE MOUNT ON CONTROL PACKAGE	1	EXHAUST	E1	KEF-1	1	850	0.5	115	60	1	NO	NO
					2	SUPPLY	S1	KMAU-1	1	800	1	208	60	1	NO	NO

**CONTROL FEATURES**  
 HOOD LIGHT CONTROL  
 TEMP SENSORS (FACTORY INSTALLED) - QTY. 1  
 DRY FIRE CONTACTS - QTY. 1  
 LIGHTS OFF DURING FIRE  
 EXHAUST MAX DURING FIRE  
 SUPPLY OFF DURING FIRE



DOC NUMBER: ----  
**CAUTION**  
 UNIT MUST BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.  
**ATTENTION**  
 L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.  
 THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BOLTS TO 8 LBS. IN TORQUE. POWER LEADS SHOULD TO COMPONENT RATINGS LISTED. TORQUE CONTROL BOARD SCREW TERMINALS TO 15 LBS. IN FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL FACTORY AT 1-800-371-8888.  
 NE PAS RETIRER CES DESSINS DE CET ÉQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN COPRE CLASSE 90°C. SERRER LES BORNES DE COMMANDE ET DE MISE À LA TERRE À 8 LBS. TORQUE. BORNES À VIS D'ALIMENTATION AUX COUPLES N'ONT PAS PLUS DE 15 LBS. DE TENSION. LA RÉSISTANCE DE CÂBLAGE DE COMMANDE LOCAL NE DOIT PAS DÉPASSER 0.75 OHM. POUR PLUS D'INFORMATION, CONSULTER LE MANUEL OU APPELER 1-800-371-8888.  
 WIRING DIAGRAM CODE: WDC#  
 JOB NAME: TRUMANN HOUSING AUTHORITY  
 MODEL: GKC-CV-S-11-1-1-0  
 SERIAL NUMBER: WDSN#  
 MARK: KFCC-1



**ZONE CONFIGURATION**

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

**HOOD CONFIGURATION**

HOOD #	HOOD	HOOD MARK	ZONE	EXHAUST	SUPPLY	MB-TEMP SENSORS	HCB
1	H1	KH-1 SECTION 1	Z1	E1	S1	TS1	NO

**FAN CONFIGURATION**

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	KEF-1	Z1	-	800	NO	-	-	-	-	10.0
2	SUPPLY	S1	KMAU-1	Z1	-	800	NO	-	-	-	-	10.0

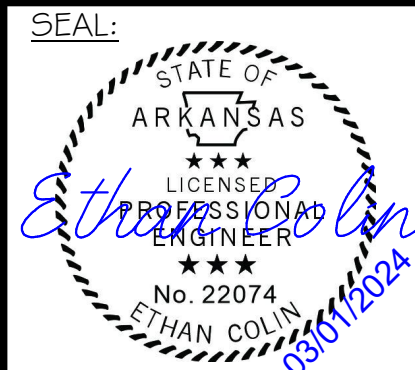
PROJECT: 3/1/2024 - TRUMANN HOUSING AUTHORITY  
 MARK: KFCC-1  
 AIR COMPONENTS INC - 1977  
 91 BRAD GRAMMER  
 BRADG@AIRCOMPINC.COM 9;  
 (901)382-1884  
**GREENHECK**



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



DATE: 03-01-2024  
 DRAWN BY: ETC  
 DESIGNER: ETC  
 CHECKED BY: GW



**WILBANKS**  
 ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
 Arlington, Tennessee 38002  
 Phone: 901-867-5220  
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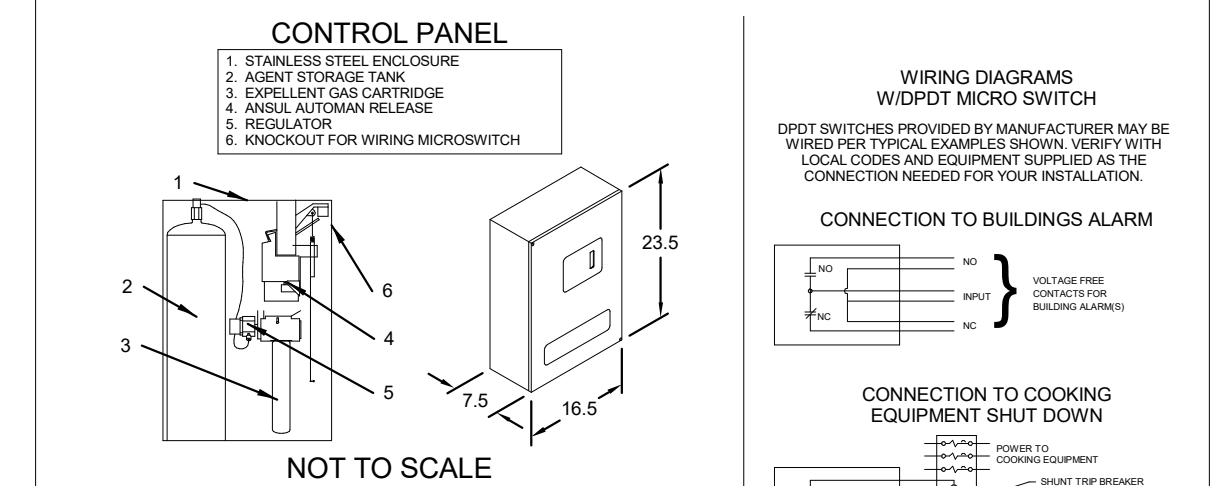
KITCHEN EQUIPMENT  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**M3.5**  
 PROJECT:  
 WAA: 1314-33

FIRE SYSTEM INFORMATION						
MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION
			HOODS	PCU		
KFSS-1	ANSUL R-102 WET CHEMICAL	REMOTE MOUNTED	6 UTILIZED		CONTINUOUS	FUSIBLE LINK
						MARK(S) PROTECTED BY FIRE SYSTEM
						KH-1 SECTION 1

**FIRE SYSTEM OPTIONS AND ACCESSORIES**  
 FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)  
 CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED  
 METAL BLOW-OFF CAPS - INCLUDED  
 GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200  
 HOOD SUPPRESSION TANK - INCLUDED - 3 GAL. - [(1) 3.0 TANK(S)]  
 REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

**ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC**



**NOTES:**  
 WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.  
 -VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.  
 -ALL FIRE SYSTEM PIPING IS STANDARD TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.  
 -ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.  
 THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:  
 -GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.  
 -MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEMS, EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT-DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.  
 THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:  
 -FULL DUMP TEST OTHER THAN WHAT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.  
 -MORE THAN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.  
 -SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.  
 -INSTALLATION OF GAS SHUT-OFF VALVE.  
 -SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR PS APPROVAL STAMP.  
 -UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOKUP.  
 -ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.  
 -ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.  
 -ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).  
 -INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 30 FT @ 1M.  
 -PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS, OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THAN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

**WIRING DIAGRAMS**  
 W/D/P/T MICRO SWITCH  
 DRIFT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED VARIOUS WAYS. EXAMINE DRAWING VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION REQUIRES FOR YOUR INSTALLATION.

**CONNECTION TO BUILDINGS ALARM**  
 NO VOLTAGE FREE CONNECTION TO BUILDING ALARM

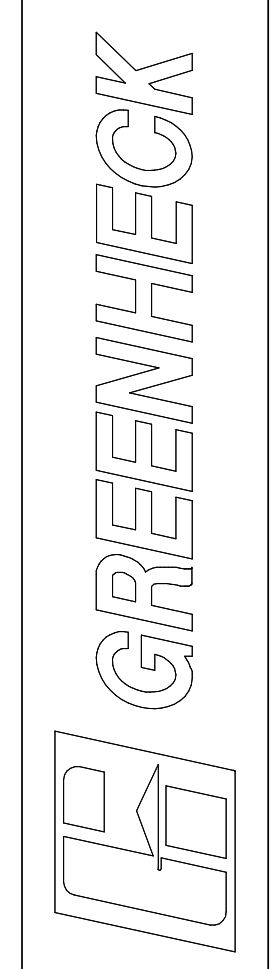
**CONNECTION TO COOKING EQUIPMENT SHUT DOWN**  
 POWER TO COOKING EQUIPMENT  
 SHUT TRIP BREAKER  
 NO VOLTAGE FREE CONNECTION TO SHUT DOWN

**CONNECTION TO FAN SHUT DOWN**  
 POWER TO FAN  
 SHUT TRIP BREAKER  
 NO VOLTAGE FREE CONNECTION TO SHUT DOWN

**NOTES:**  
 1. --- DENOTES FIELD INSTALLATION  
 2. --- DENOTES FACTORY INSTALLATION  
 3. DO NOT USE BLACK WIRE OR INDUCTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTENDED ALARM LIGHT CIRCUITS, ETC.

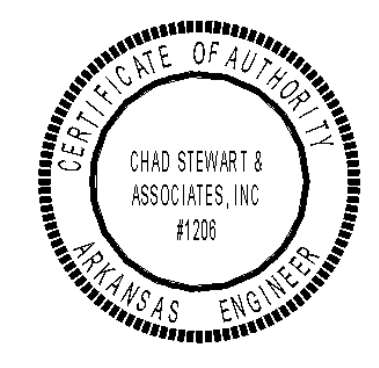
PROJECT: 3/14/2024  
 TRUMANN HOUSING AUTHORITY  
 MARK: KFSS-1

AIR COMPONENTS INC - 1877  
 9; BRAD GRAMMER  
 BRADGG@AIRCOMPINC.COM 9;  
 (901)862-1884



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

**CSA** ENGINEERING  
 PROJECT NO: 23617  
 Chad Stewart & Associates, Inc.  
 9720 Village Circle Lakeland, TN 38002  
 Phone 901-260-7850 www.CSAengineeringinc.com  
 Memphis





# WILBANKS ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
Arlington, Tennessee 38002  
Phone: 901-867-5220  
Fax: 901-867-5331  
Website: www.wilbanksa.com

## KITCHEN EQUIPMENT NEW COMMUNITY BUILDING TRUMANN HOUSING AUTHORITY TRUMANN, ARKANSAS

SHEET NUMBER:

# M3.6

PROJECT:

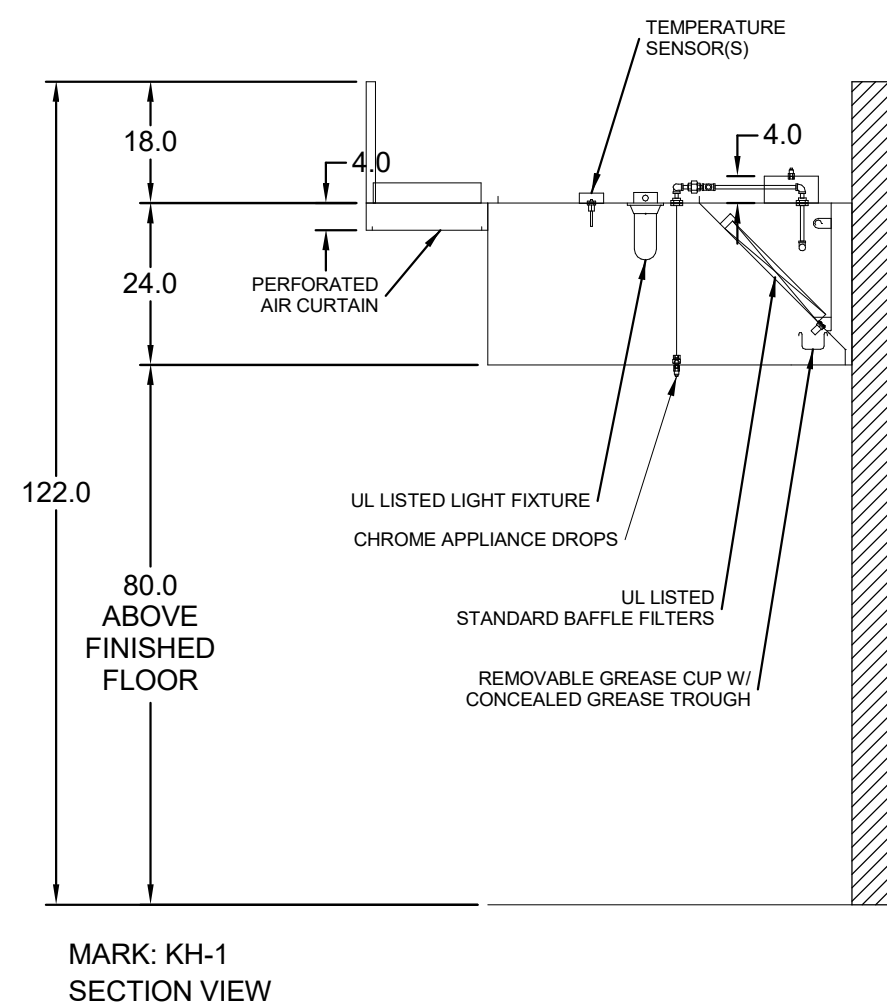
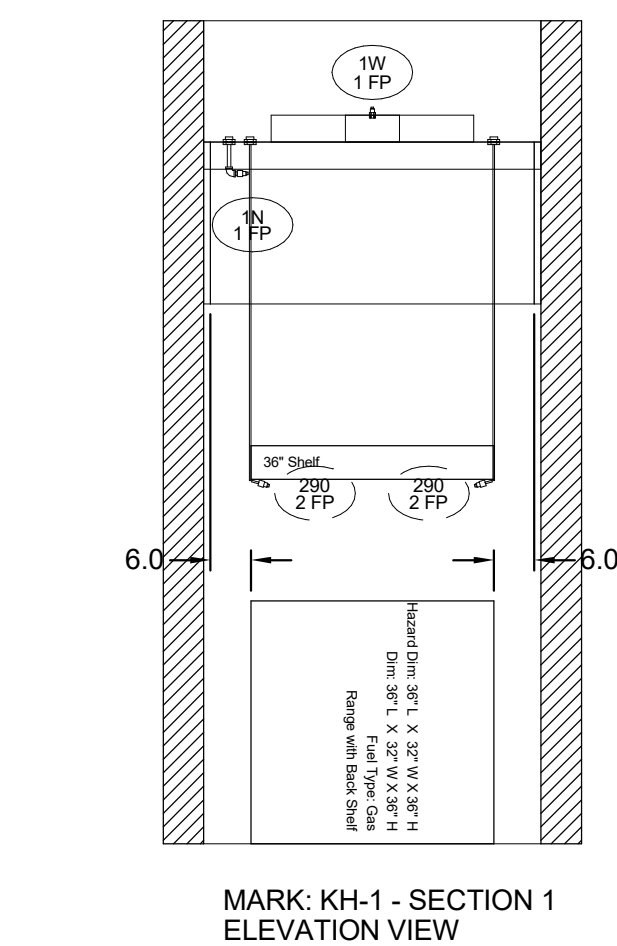
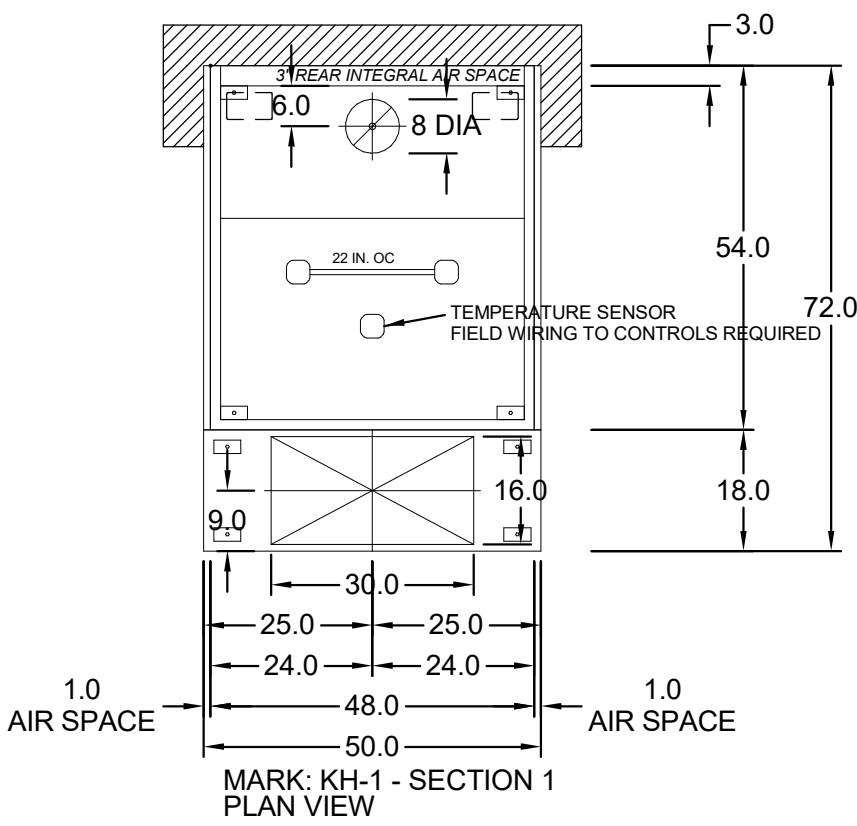
WAA: 1314-33

HOOD INFORMATION																
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	TOTAL CFM	EXHAUST COLLAR(S)			SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION	
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM	S.P.			MUA CFM
1	KH-1	GHEW-48-S	48	54	24	4,430 SS WHERE EXPOSED	4:HEAVY	850		8	850	0.731	800		4,179	SINGLE

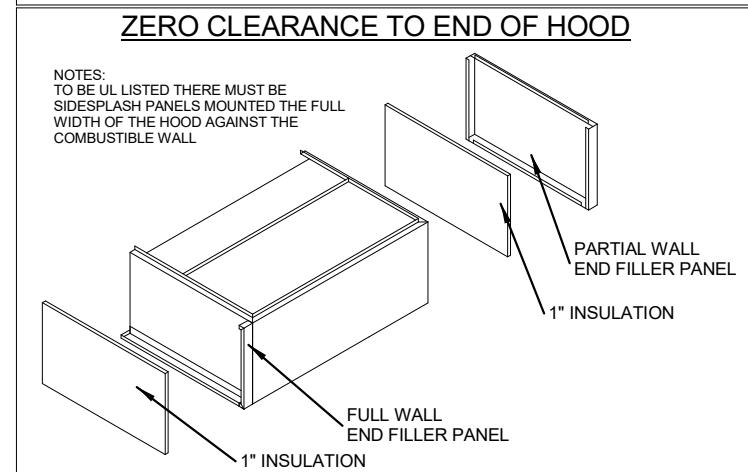
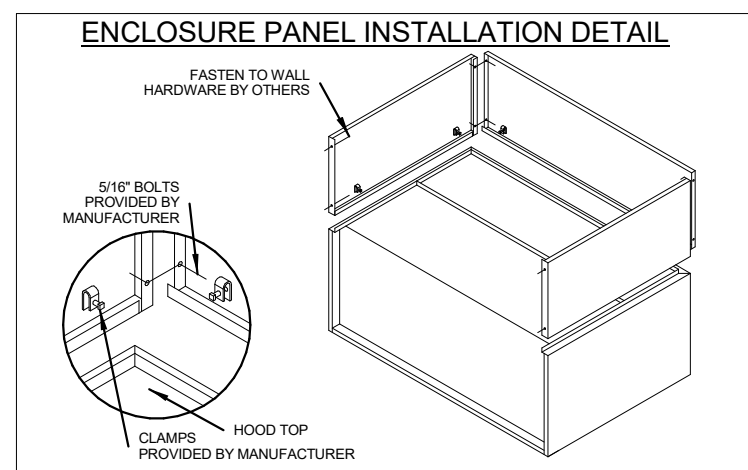
HOOD INFORMATION														
HOOD NO.	MARK	LIGHTING DETAILS				GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE	BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL	MATERIAL	QTY	SIZE (IN.)	LOCATION	FIRE SYSTEM TYPE	SIZE	MODEL	CONTROLS INTERFACE
1	KH-1		100W A19 (BULBS NOT INCL.)	2	39.86	BAFFLE	STAINLESS STEEL	3	3 1/2	20				

SUPPLY PLENUM INFORMATION																		
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS					
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.
1	KH-1	FRONT	ASP	50	18	4	NO	YES	NO	850	0.01	MUA	FACTORY	1	16	30	850	240

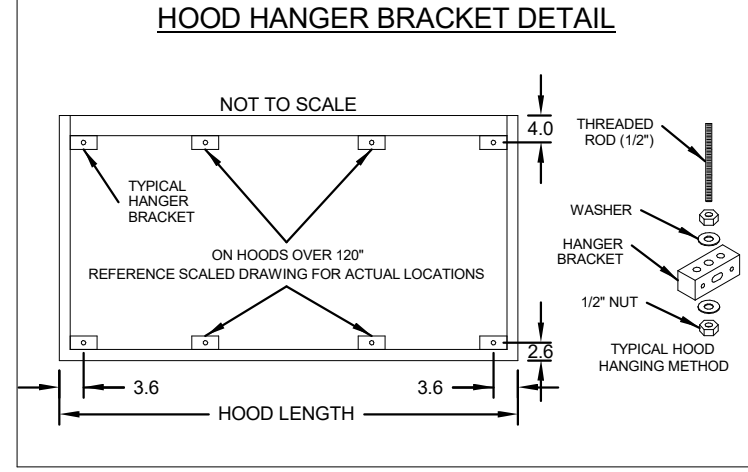
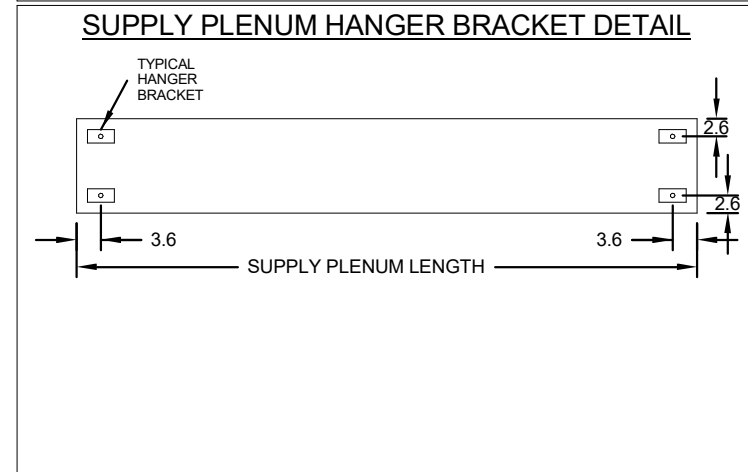
**HOOD OPTIONS**  
 UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #MH11726  
 BACK INTEGRAL AIR SPACE - 3 IN WIDE  
 LEFT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE  
 RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE  
 18 IN HIGH CEILING ENCLOSURES - FRONT - FIELD INSTALLED  
 FACTORY MOUNTED EXHAUST COLLAR(S)  
 PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY  
 STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



ANSUL R152  
 FIRE SYSTEM MARK: KFSS-1  
 PIPES & CONDUIT  
 BY ANSUL DISTRIBUTOR



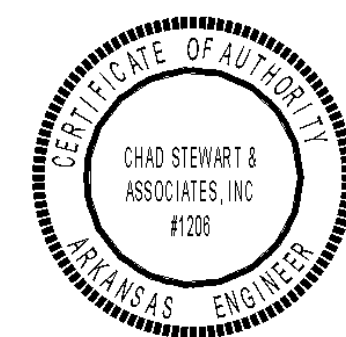
**HOOD HANGING HEIGHT FOR FIRE SYSTEMS**  
 VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.  
 RECOMMENDED HANGING HEIGHT = 80\"/>



PROJECT: 3/4/2024  
 MARK: KH-1  
 TRUMANN HOUSING AUTHORITY  
 AIR COMPONENTS INC - 1977  
 9; BRAD GRAMMER  
 BRADG@AIRCOMPINC.COM 9;  
 (901)382-1884  
**GREENHECK**

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

**CSA ENGINEERING**  
 Chad Stewart & Associates, Inc.  
 9720 Village Circle  
 Phone 901-260-7850  
 Lakeland, TN 38002  
 www.CSAengineeringinc.com  
 Memphis







WILBANKS ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
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Fax: 901-867-5331  
Website: www.wilbanks.com

SCHEDULES - MECHANICAL  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

### AIR HANDLING UNIT (GAS-FIRED FURNACE) EQUIPMENT SCHEDULE

MARK	BASIS OF DESIGN			DESCRIPTION	SUPPLY AIRFLOW (CFM)	EXT. STATIC PRESSURE (IN WC)	MIN. OUTSIDE AIR (CFM)	COOLING			HEATING			ELECTRICAL			WEIGHT (LBS)	REMARKS	
	MFR.	FURNACE MODEL	COIL MODEL					TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	STAGES	TYPE	INPUT MBH	AFUE	STAGES	V/PH/Hz	MCA			MOCQ
AHU-1	DAIKIN	DM96	CAPT	4 TON VERTICAL AIR HANDLER	1600	0.5	120	48.0	33.6	2	GAS	60	96	2	240/1/60	7.8	15	117	SEE NOTES.
AHU-2	DAIKIN	DM96	CAPT	5 TON VERTICAL AIR HANDLER	2000	0.5	160	60.0	42.0	2	GAS	60	96	2	240/1/60	7.8	15	117	SEE NOTES.
AHU-3	DAIKIN	DM96	CAPT	5 TON VERTICAL AIR HANDLER	2000	0.5	160	60.0	42.0	2	GAS	80	96	2	240/1/60	7.8	15	120	SEE NOTES.
AHU-4	DAIKIN	DM96	CAPT	5 TON VERTICAL AIR HANDLER	2000	0.5	160	60.0	42.0	2	GAS	60	96	2	240/1/60	7.8	15	117	SEE NOTES.
AHU-5	DAIKIN	DM96	CAPT	2 TON VERTICAL AIR HANDLER	800	0.5	0	24.0	16.8	2	GAS	40	96	2	240/1/60	7.8	15	120	SEE NOTES.

- NOTES:
- PROVIDE UNIT WITH DISCONNECT SWITCH.
  - ROUTE REFRIGERANT LINES FROM ASSOCIATED OUTDOOR UNITS PER MANUFACTURER'S RECOMMENDATIONS.
  - PROVIDE UNITS WITH SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK PRIOR TO ANY TAPS.
  - AHUs SHALL HAVE TXV AND FOIL FACE INSULATION. MOTOR SHALL BE VARIABLE SPEED ECM.
  - PROVIDE CASED, PAINTED COILS, MATCHED WITH FURNACE CABINET SIZE.
  - PROVIDE BOTTOM FILTER BOX WITH 2" MERV-8 FILTERS AND HINGED DOOR.
  - ELECTRICAL DATA IS FOR POINT POWER CONNECTION.
  - PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL AUXILIARY DRAIN PAN WITH CONDENSATE SWITCH.
  - PROVIDE PVC FLUE VENT AND COMBUSTION AIR PIPING.
  - PROVIDE PVC CONCENTRIC KIT FOR FLUE VENTING AND COMBUSTION AIR.

### CONDENSING UNIT EQUIPMENT SCHEDULE

MARK	BASIS OF DESIGN			DESCRIPTION	SEER2	AMBIENT (°F)	ELECTRICAL			REMARKS
	MFR.	MODEL					V/PH/Hz	MCA	MOCQ	
CU-1	DAIKIN	DX16SA		4 TON SPLIT-SYSTEM CONDENSING UNIT	16.0	95	240/1/60	23.7	40	SEE NOTES.
CU-2	DAIKIN	DX16SA		5 TON SPLIT-SYSTEM CONDENSING UNIT	16.0	95	240/1/60	32.6	50	SEE NOTES.
CU-3	DAIKIN	DX16SA		5 TON SPLIT-SYSTEM CONDENSING UNIT	16.0	95	240/1/60	32.6	50	SEE NOTES.
CU-4	DAIKIN	DX16SA		5 TON SPLIT-SYSTEM CONDENSING UNIT	16.0	95	240/1/60	32.6	50	SEE NOTES.
CU-5	DAIKIN	DX16SA		4 TON SPLIT-SYSTEM CONDENSING UNIT	16.0	95	240/1/60	17.8	30	SEE NOTES.

- NOTES:
- PROVIDE UNIT WITH DISCONNECT SWITCH, LOW AMBIENT CONTROLS, COIL GUARD, LOW & HIGH PRESSURE SWITCHES, ANTI-SHORT CYCLE PROTECTION, & OVERLOAD PROTECTION.
  - PROVIDE 5 YEAR WARRANTY FOR COMPRESSORS.
  - SIZE ALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - OUTDOOR UNIT SHALL HAVE 2 STAGES OF COOLING FOR PART LOAD CONDITIONS.
  - UNIT SHALL HAVE METAL LOUVERS FOR CONDENSER COIL.
  - PROVIDE FREEZE STAT. START ASSIST. OUTDOOR AIR LOCKOUT THERMOSTAT.
  - INSTALL UNIT ON CONCRETE EQUIPMENT PAD.

### FAN SCHEDULE

MARK	DESCRIPTION	CFM	ESP (IN-WC)	FAN RPM	DRIVE TYPE	MAX SONES	INTERLOCK	OPENING	ELECTRICAL DATA			WEIGHT (LBS)	BASIS OF DESIGN		REMARKS				
									MOTOR INPUT	V/PH/Hz	FLA		MFR.	MODEL					
EF-1	CEILING EXHAUST FAN	75	0.5	718	DIRECT	2.0	LIGHTS	6"Ø	17 W	115/1/60	0.29	10	GREENHECK	SP-AP0511W	SEE NOTES 1,3,5				
EF-2	CEILING EXHAUST FAN	75	0.5	871	DIRECT	2.0	-	6"Ø	17 W	115/1/60	0.29	10	GREENHECK	SP-AP0511W	SEE NOTES 1,2,5				
EF-3	CEILING EXHAUST FAN	150	0.5	1050	DIRECT	3.5	LIGHTS	6"Ø	128 W	115/1/60	1.80	10	GREENHECK	SP-B150	SEE NOTES 1,3,5				
EF-4	CEILING EXHAUST FAN	150	0.5	1050	DIRECT	3.5	LIGHTS	6"Ø	128 W	115/1/60	1.80	10	GREENHECK	SP-B150	SEE NOTES 1,3,5				
EF-5	CEILING EXHAUST FAN	150	0.5	1050	DIRECT	3.5	LIGHTS	6"Ø	128 W	115/1/60	1.80	10	GREENHECK	SP-B150	SEE NOTES 1,3,5				
EF-6	CEILING EXHAUST FAN	150	0.5	1050	DIRECT	3.5	LIGHTS	6"Ø	128 W	115/1/60	1.80	10	GREENHECK	SP-B150	SEE NOTES 1,3,5				
EF-7	INLINE EXHAUST FAN	600	0.5	1195	DIRECT	1.2	TSTAT	20" X 8"	128 W	115/1/60	4.1	40	GREENHECK	CSP-A700-VG	SEE NOTES 1,4,5				
EF-8	INLINE EXHAUST FAN	450	0.5	1313	DIRECT	1.3	-	8" X 6"	128 W	115/1/60	2.45	37	GREENHECK	CSP-A510-VG	SEE NOTES 1,2,5				
KEF-1	SEE KITCHEN EQUIPMENT DRAWINGS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTES:
- PROVIDE FAN WITH ELECTRICAL DISCONNECT SWITCH.
  - EXHAUST FAN TO RUN CONTINUOUSLY DURING HOURS OF NORMAL OPERATION. PROVIDE SWITCH FOR CONTROL OF FAN.
  - EXHAUST FAN TO RUN INTERMITTENTLY. PROVIDE RELAY FOR INTERLOCKING EXHAUST FAN TO LIGHT SWITCH.
  - EXHAUST FAN TO RUN INTERMITTENTLY. PROVIDE RELAY FOR INTERLOCKING EXHAUST FAN TO THERMOSTAT.
  - PROVIDE CEILING EXHAUST FANS WITH BACKDRAFT DAMPER, HANGING VIBRATION & ISOLATION KIT, ROUND DUCT CONNECTION, MFR. PROVIDED ROOF JACK, GALV. STEEL SCROLL & HOUSING WITH ALUMINUM WHEEL, SPEED CONTROLLER, GRILLE KIT, MOUNTING BRACKETS, AND TRANSFORMER AS REQUIRED FOR INTERLOCKING.

### GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	DESCRIPTION	APPLICATION	MFR.	MODEL	MATERIAL	FINISH	DAMPER	N.C. MAX	REMARKS
CD-1	20"x20" ADJUSTABLE LOUVERED FACE. ALUMINUM CONSTRUCTION WITH 4 CONES, MOUNTING FRAME AND BALANCING DAMPER. PROVIDE MOUNTING FRAME FOR SURFACE MOUNT APPLICATIONS.	SUPPLY	NAILOR	ARNSA	ALUMINUM	WHITE	OPPOSED BLADE	35	SEE NOTES.
CD-2	12"x12" ADJUSTABLE LOUVERED FACE. ALUMINUM CONSTRUCTION WITH 4 CONES, MOUNTING FRAME AND BALANCING DAMPER. PROVIDE MOUNTING FRAME FOR SURFACE MOUNT APPLICATIONS.	SUPPLY	NAILOR	ARNSA	ALUMINUM	WHITE	OPPOSED BLADE	35	SEE NOTES.
RG-1	CEILING RETURN GRILLE. 20"x20" FLUSH PERFORATED FACE WITH SQUARE OR ROUND NECK FOR RETURN, MOUNTING FRAME AND BALANCING DAMPER.	RETURN	NAILOR	4360A	ALUMINUM	WHITE	OPPOSED BLADE	35	SEE NOTES.
RG-2	SIDEWALL RETURN GRILLE, REVERSIBLE CORE, HORIZONTAL BLADES ON 1/4" CENTERS, MOUNTING FRAME AND OPPOSED BLADE DAMPER	RETURN	NAILOR	51RC	ALUMINUM	WHITE	OPPOSED BLADE	35	SEE NOTES.
TG-1	SIDEWALL DOOR/TRANSFER GRILLE, REVERSIBLE CORE, HORIZONTAL BLADES ON 1/4" CENTERS, MOUNTING FRAME AND OPPOSED BLADE DAMPER	RETURN	NAILOR	51DG	ALUMINUM	WHITE	OPPOSED BLADE	35	SEE NOTES.

- NOTES:
- COORDINATE AIR DISTRIBUTION DEVICE LOCATION WITH LIGHTS AND REFLECTED CEILING PLANS.
  - CEILING DEVICES SHALL BE COMPATIBLE WITH CEILINGS SPECIFIED BY ARCHITECT.
  - UNLESS NOTED OTHERWISE, DIFFUSER NECK SIZE INDICATES DUCT RUNOUT SIZE.
  - COORDINATE FINISH OF AIR TERMINALS IN EXPOSED AREAS WITH ARCHITECT.

### DUCTLESS SINGLE-ZONE SPLIT HEAT PUMP UNIT SCHEDULE

MARK	DESCRIPTION	NOMINAL TONS	EFFICIENCY		COOLING DATA		HEATING DATA		COMPRESSOR			ELECTRICAL DATA			MIN. WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
			SEER2	HSPF2	AMBIENT (°F)	TOTAL (MBH)	AMBIENT (°F)	TOTAL (MBH)	TYPE	QTY	REFR	V/PH/Hz	MCA	MOCQ		MFR.	MODEL	
ODU-1	1.5 TON WALL MOUNTED HEAT PUMP SYSTEM	1.5	20.3	11.0	95	18	17	13.9	INVERTER	1	R-410A	240/1/60	13.75	20.0	104	DAIKIN	RXS18LVJU	SEE NOTES.

- NOTES:
- PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
  - ALL CAPACITIES ARE NET VALUES.
  - MOUNT EQUIPMENT ON EQUIPMENT PAD.
  - EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, JCI, LENNOX, TRANE, YORK.

### DUCTLESS SINGLE-ZONE SPLIT INDOOR UNIT SCHEDULE

MARK	DESCRIPTION	AIRFLOW (CFM)	MIN. OA (CFM)	COOLING DATA			HEATING CAP. (MBH)	CD SIZE (IN)	FILTER	ELECTRICAL DATA			BASIS OF DESIGN		REMARKS
				EAT DB (°F)	EAT WB (°F)	TOTAL CAP. (MBH)				V/PH/Hz	FLA	MANUF.	MODEL		
IDU-1	1.5 TON WALL MOUNTED HEAT PUMP SYSTEM	500	0	80	67	18	13.9	1-1/4"	WASHABLE	240/1/60	0.32	DAIKIN	FTXS18LVJU	SEE NOTES.	

- NOTES:
- PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
  - ALL CAPACITIES ARE NET VALUES.
  - PROVIDE CONDENSATE PUMP.
  - PROVIDE WATER LEVEL MONITORING DEVICE IN ACCORDANCE WITH IMC 307.2.3.1.
  - PROVIDE CONDENSATE OVERFLOW SWITCH, INTERLOCK WITH UNIT SHUTDOWN.
  - EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, JCI, LENNOX, TRANE, YORK.

### LOUVER SCHEDULE

MARK	DESCRIPTION	APPLICATION	MFR.	MODEL	QTY	WIDTH (IN)	HEIGHT (IN)	FREE AREA (SF)	CFM	PRESSURE DROP (IN-WG)	FREE AREA VELOCITY (FPM)	BPWP (FPM)	REMARKS
L-1	OPERABLE INTAKE LOUVER	INTAKE	GREENHECK	ECD-601	1	24	18	1	800	0.05	675	1035	SEE NOTES.
L-2	WIND-DRIVEN RAIN EXHAUST LOUVER	EXHAUST	GREENHECK	EHH-701	1	26	26	1.8	800	0.04	335	1250	SEE NOTES.
L-3	ICCS500 FEMA LOUVER	EXHAUST	GREENHECK	AFL-501	1	16	26	1	450	0.05	438	553	SEE NOTES.
L-4	ICCS500 FEMA LOUVER	INTAKE	GREENHECK	AFL-501	1	16	28	1.1	450	0.04	400	553	SEE NOTES.

- NOTES:
- PROVIDE LOUVER WITH INTEGRAL GALVANIZED BIRD SCREEN.
  - CUSTOM PAINT COLOR TO BE SELECTED BY ARCHITECT TO MATCH OTHER BUILDING FINISHES.
  - PROVIDE LOUVER WITH EXTENDED SILL.
  - GREENHECK SHOWN IN THE SCHEDULE IS SHOWN TO ESTABLISH A STANDARD OF QUALITY, NOT TO LIMIT COMPETITION. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE.

### ELECTRIC UNIT HEATER SCHEDULE

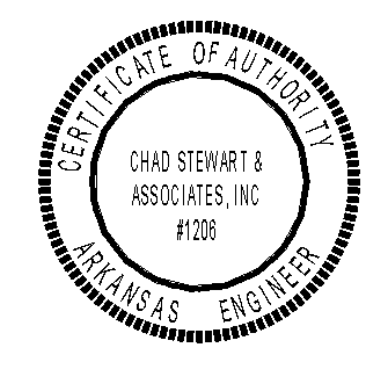
MARK	MFR.	MODEL	AIRFLOW (CFM)	TOTAL HEATING CAPACITY (KW)	ELECTRICAL		REMARKS
					V/PH/Hz	MCA	
EW-1	MARKEL	H3425T	245	5	240/1/60	20.8	SEE NOTES.
EW-2	MARKEL	H3425T	245	5	240/1/60	20.8	SEE NOTES.

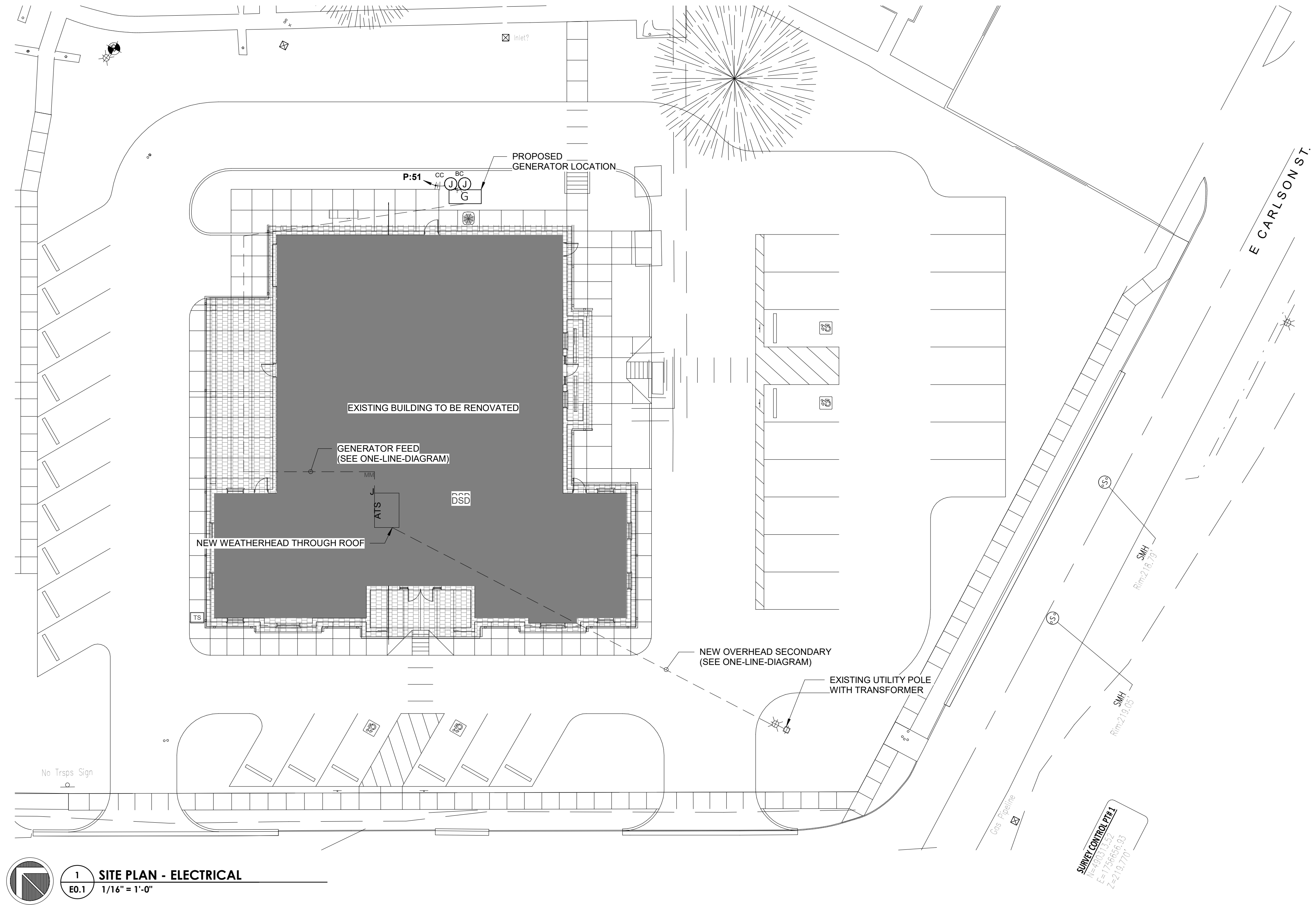
- NOTES:
- ALL CAPACITIES ARE NET VALUES.
  - PROVIDE SURFACE MOUNT KIT AND 16 GA. STEEL HEAVY DUTY GRILLE.
  - PROVIDE WITH INTEGRAL THERMOSTAT.
  - ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT. SEE ELECTRICAL DRAWINGS.

### BUILDING AIR BALANCE CALCULATION

SYSTEM	SUPPLY (CFM)	RETURN (CFM)	EXHAUST (CFM)	OUTSIDE AIR (CFM)	OUTSIDE AIR %	BUILDING PRESSURE
AHU-1	1600	1460	0	120	7.5%	+120 CFM
AHU-2	2000	1840	0	160	8.0%	+160 CFM
AHU-3	2000	1840	0	160	8.0%	+160 CFM
AHU-4	2000	1840	0	160	8.0%	+160 CFM
AHU-5	800	800	0	0	0	0
IDU-1	800	775	0	0	0	0
EF-1	0	0	75	0	-	SEE NOTE 1
EF-2	0	0	75	0	-	-75 CFM
EF-3	0	0	150	0	-	SEE NOTE 1
EF-4	0	0	150	0	-	SEE NOTE 1
EF-5	0	0	150	0	-	SEE NOTE 1
EF-6	0	0	150	0	-	SEE NOTE 1
KEF-1	0	0	850	0	-	-850 CFM
KMAU-1	800	0	0	800	100%	+800 CFM
<b>TOTAL</b>	<b>7600</b>	<b>7000</b>	<b>75</b>	<b>600</b>	<b>--</b>	<b>+475 CFM</b>

- NOTES:
- EXHAUST FAN TO BE INTERLOCKED WITH LIGHT SWITCH FOR INTERMITTENT OPERATION. PROVIDE TRANSFORMER AS REQUIRED.





**1** SITE PLAN - ELECTRICAL  
E0.1 1/16" = 1'-0"

DATE: 03-01-2024  
DRAWN BY: JKJ  
DESIGNER: JKJ  
CHECKED BY: EJW



**WILBANKS**  
ARCHITECTURE & ASSOCIATES, LLC

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SITE PLAN - POWER  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER:

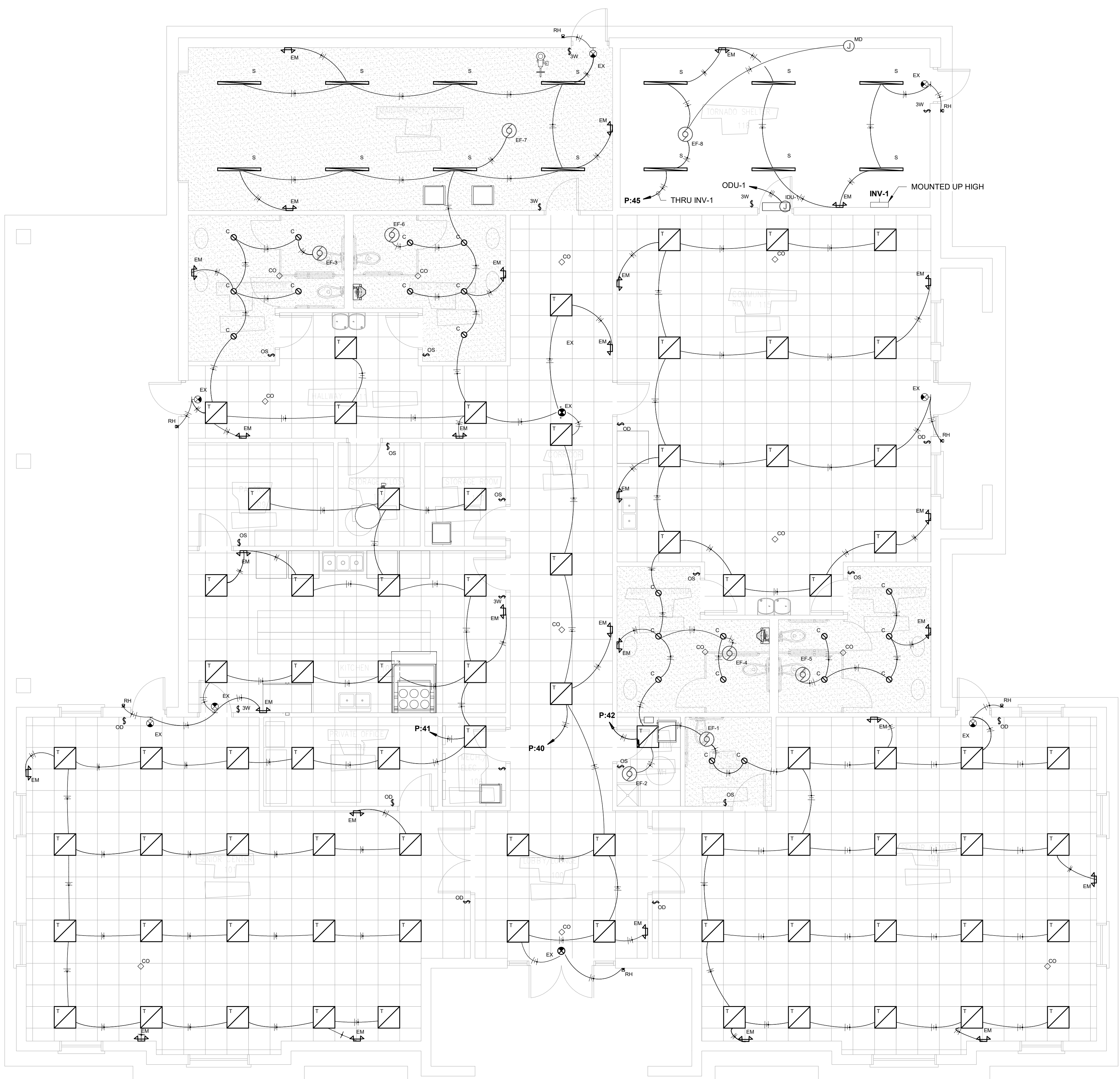
**E0.1**

PROJECT:

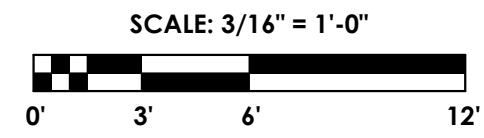
WAA: 1314-33

**CSA** ENGINEERING  
Chad Stewart & Associates, Inc.  
9720 Village Circle Lakeland, TN 38002  
Phone 901-260-7850 www.CSAengineeringinc.com  
Memphis





1 FLOOR PLAN - LIGHTING  
E1.1 3/16" = 1'-0"



### LIGHTING FIXTURE SCHEDULE

Mark	Description	Manufacturer	Model	Lamp	Initial Color Temperature	Electrical Data	Comments
C	6" Round Downlight	Lithonia	LDN6 35/10 L06AR LSS	LED	3500 K	120 V/1-10 VA	
EM	LED Emergency Light	Lithonia	ELM2 LED	LED	3500 K	120 V/1-2 VA	Mount 8" AFF
EX	LED Exit Sign	Lithonia	LHQM LED R HO R0	LED	3500 K	120 V/1-5 VA	Mount 8" AFF Where Wall Mounted
RH	LED Remote Emergency	Lithonia	ELA QWP L0304	LED	3200 K	120 V/1-5 VA	
S	4" Strip Light	Lithonia	CLX L48 3000LM SEF FDL MVOLT 40K 80CRI	LED	3500 K	120 V/1-18 VA	
T	2X2 Recessed Troffer	Lithonia	2BLT2 40L ADSM LP835	LED	3500 K	120 V/1-31 VA	

### LIGHTING DEVICE SCHEDULE

Type Mark	Description	Manufacturer	Model	Comments
3W	3-Way Switch			
CO	Ceiling Occupancy Sensor	nLight	nCM PDT 9	
OD	Occupancy Dimmer Switch	Sensor Switch	WSXA PDT D	
OS	Occupancy Sensor Switch	Sensor Switch	WSXA PDT	
S	Single Pole	nLight	nPDMA	

**Branch Panel: P**  
 Location: MECH./ELEC. 106  
 Supply From:  
 Mounting: Surface  
 Enclosure: Type 1

Volts: 120/240 Single  
 Phases: 1  
 Wires: 3

A.I.C. Rating: 22,000  
 Mains Type: MCB  
 Mains Rating: 300 A  
 MCB Rating: 300 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
P:1	CU-1	40 A	2	2725... 3500...	2725... 3500...	2	50 A	CU-2	P:2	
P:3	CU-3	50 A	2	3500... 3500...	3500... 3500...	2	50 A	CU-4	P:4	
P:5	ODU-1	25 A	2	1720... 2136...	1720... 2136...	2	30 A	CU-5	P:6	
P:7	AHU-1	15 A	2	900 VA 900 VA	900 VA 900 VA	2	15 A	AHU-2	P:8	
P:9	AHU-3	15 A	2	900 VA 900 VA	900 VA 900 VA	2	15 A	AHU-4	P:10	
P:11	EW-1	25 A	2	2500... 900 VA	2500... 900 VA	2	15 A	AHU-5	P:12	
P:13	Range and Hood Controls	20 A	1	680 VA 720 VA	720 VA	1	20 A	Receptacle MAINTENANCE/STORAGE...	P:14	
P:15	Shunt Trip Unit	--	1	--	720 VA	1	20 A	Receptacle Room 119, 114, 113	P:16	
P:17	Electric Drinking Fountain	20 A	1	180 VA 2260...	720 VA	1	20 A	Receptacle Room 111, 105, 109, 112, 11...	P:18	
P:19	Receptacle KITCHEN 108	20 A	1	360 VA 720 VA	540 VA 540 VA	1	20 A	Receptacle KITCHEN 108	P:20	
P:21	Receptacle KITCHEN 108	20 A	1	360 VA 720 VA	1260... 720 VA	1	20 A	Receptacle Room 102, 106	P:22	
P:23	Receptacle SENIOR CENTER 101	20 A	1	1440... 1440...	1080... 1277...	1	20 A	Room 107, 104, 116, 117	P:24	
P:25	Receptacle SENIOR CENTER 103	20 A	1	1440... 1440...	1080... 1277...	1	20 A	Receptacle COMMUNITY ROOM 115	P:26	
P:27	Receptacle TORNADO SHELTER 118	20 A	1	1018... 1473...	180 VA 360 VA	1	20 A	Room 100, 105, 111, 114, 113, 119, 118	P:28	
P:29	Lighting Room 101, 108	20 A	1	1018... 1473...	180 VA 360 VA	1	20 A	Room 115, 116, 117, 103	P:30	
P:31	Electric Drinking Fountain	20 A	1	288 VA 1012...	180 VA 360 VA	1	20 A	Receptacle	P:32	
P:33	EW-2	25 A	2	2500... 1200...	1000...	2	20 A	MAU-1	P:34	
P:35	Power	20 A	1						P:36	
P:37									P:38	
P:39									P:40	
P:41									P:42	
P:43									P:44	
P:45									P:46	
P:47									P:48	
P:49									P:50	
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P:69									P:70	
P:71									P:72	
P:73									P:74	
P:75									P:76	
P:77									P:78	
P:79									P:80	
P:81									P:82	
P:83									P:84	
				<b>Total Load:</b>	39371 VA	35458 VA				
				<b>Total Amps:</b>	328 A	295 A				

Legend:

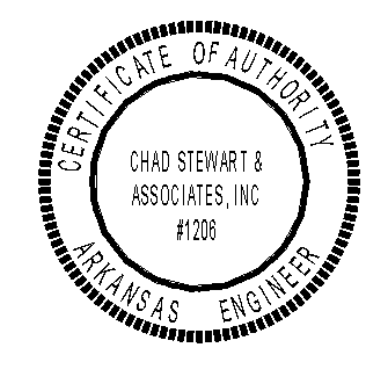
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Cooling	30722 VA	100.00%	30722 VA	<b>Total Conn. Load:</b> 74829 VA
HVAC	5840 VA	100.00%	5840 VA	
Heating	19000 VA	100.00%	19000 VA	<b>Total Est. Demand:</b> 74232 VA
Motor	2026 VA	112.49%	2279 VA	<b>Total Conn.:</b> 312 A
Receptacle	11700 VA	92.74%	10850 VA	<b>Total Est. Demand:</b> 309 A
Power	2550 VA	100.00%	2550 VA	<b>Total Adjusted Est. Load:</b> 74232 VA
Lighting	2991 VA	100.00%	2991 VA	<b>Total Adjusted Demand:</b> 309 A

NOTES:

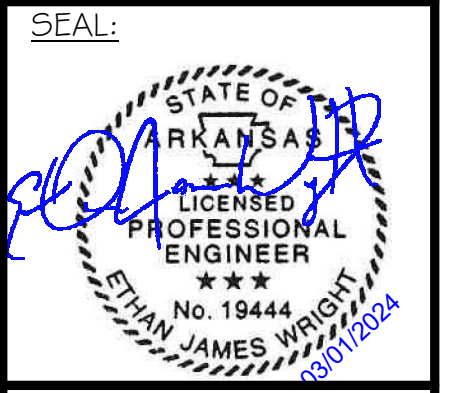
- CORRIDOR LIGHTS ARE TO REMAIN ON DURING BUSINESS HOURS OF OPERATIONS AND TO BE CONTROLLED VIA CEILING OCCUPANCY SENSORS OUTSIDE THESE HOURS.

REVISION		
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**CSA** ENGINEERING  
 Chad Stewart & Associates, Inc.  
 9720 Village Circle  
 Phone 901-260-7850 www.CSAengineeringinc.com  
 Lakeland, TN 38002  
 Memphis



DATE: 03-01-2024  
 DRAWN BY: JKJ  
 DESIGNER: JKJ  
 CHECKED BY: EJW

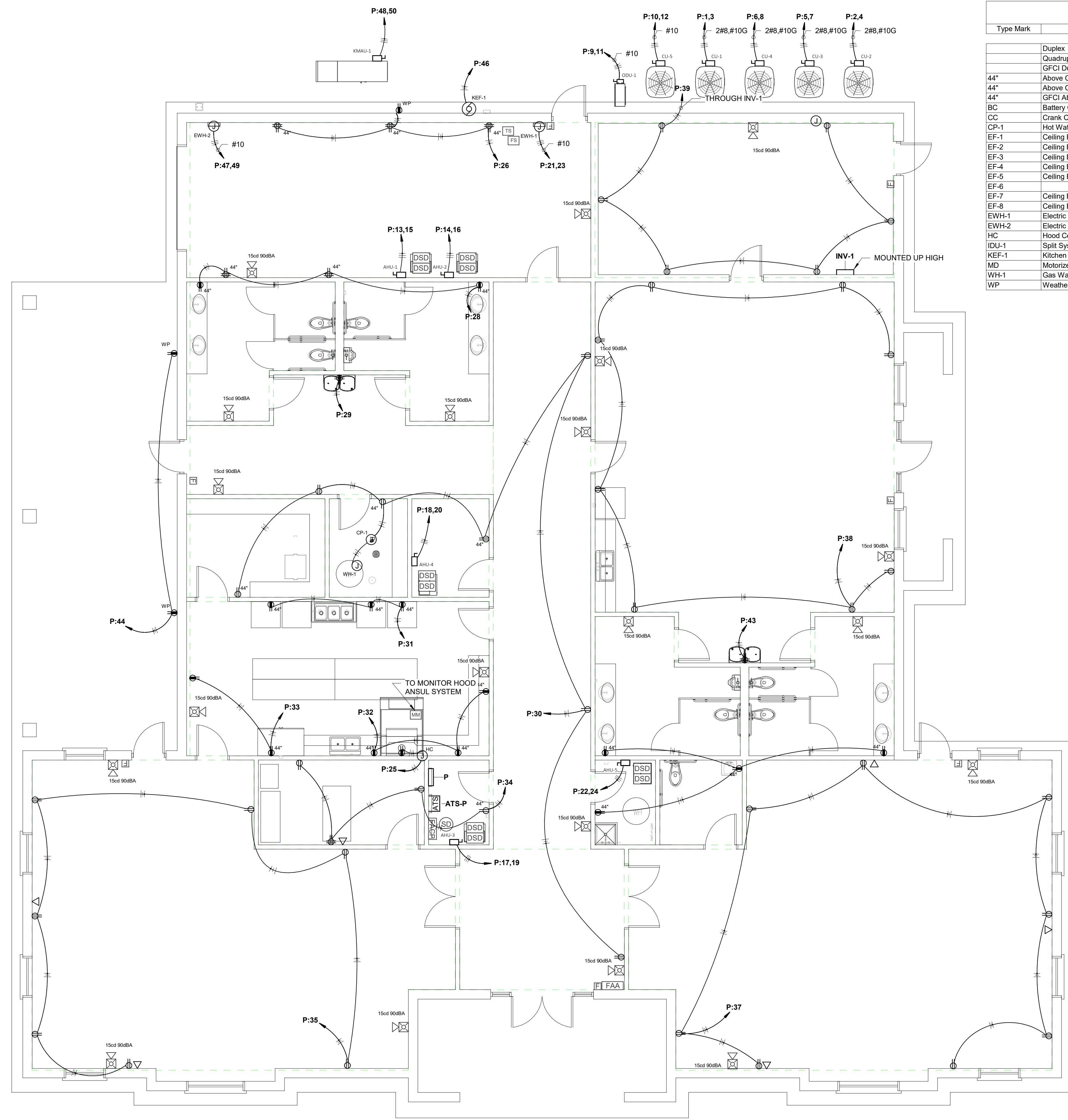


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FLOOR PLAN - LIGHTING  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS

SHEET NUMBER:  
**E1.1**  
 PROJECT:  
 WAA: 1314-33



### ELECTRICAL FIXTURE SCHEDULE

Type Mark	Description	Electrical Data	Manufacturer	Model	Comments
	Duplex	120 V/1-180 VA	Hubbell Wiring Devices	5362BK	
	Quadplex	120 V/1-180 VA	Hubbell Wiring Devices	(2) 5362BK	
	GFCI Duplex	120 V/1-180 VA	Hubbell Wiring Devices	GFR5362BKTR	
44"	Above Counter Duplex	120 V/1-180 VA	Hubbell Wiring Devices	5362BK	
44"	Above Counter Quadplex	120 V/1-180 VA	Hubbell Wiring Devices	(2) 5362BK	
44"	GFCI Above Counter Duplex	120 V/1-180 VA	Hubbell Wiring Devices	GFR5362BKTR	
BC	Battery Charger	120 V/1-500 VA			
CC	Crank Case Heater	120 V/1-500 VA			
CP-1	Hot Water Circulating Pump	120 V/1-500 VA			
EF-1	Ceiling Exhaust Fan	115 V/1-17 VA			
EF-2	Ceiling Exhaust Fan	115 V/1-17 VA			
EF-3	Ceiling Exhaust Fan	115 V/1-128 VA			
EF-4	Ceiling Exhaust Fan	115 V/1-128 VA			
EF-5	Ceiling Exhaust Fan	115 V/1-128 VA			
EF-6	Ceiling Exhaust Fan	115 V/1-128 VA			
EF-7	Ceiling Exhaust Fan	115 V/1-351 VA			
EF-8	Ceiling Exhaust Fan	115 V/1-117 VA			
EWH-1	Electric Wall Heater	240 V/2-5000 VA			
EWH-2	Electric Wall Heater	240 V/2-5000 VA			
HC	Hood Controls	120 V/1-500 VA			
IDU-1	Split System Indoor Unit	240 V/2-200 VA			
KEF-1	Kitchen Exhaust Fan	115 V/1-1012 VA			
MD	Motorized Damper	120 V/1-50 VA			
WH-1	Gas Water Heater	120 V/1-500 VA			
WP	Weatherproof Duplex	120 V/1-180 VA	Hubbell Wiring Devices	5362BKWR	

### ELECTRICAL EQUIPMENT SCHEDULE

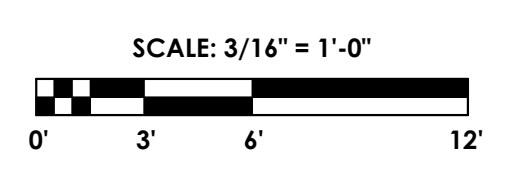
Type Mark	Panel Name	Description	Electrical Data	Comments
AHU-1		30A Disconnect for AHU	240 V/2-1800 VA	
AHU-2		30A Disconnect for AHU	240 V/2-1800 VA	
AHU-3		30A Disconnect for AHU	240 V/2-1800 VA	
AHU-4		30A Disconnect for AHU	240 V/2-1800 VA	
AHU-5		30A Disconnect for AHU	240 V/2-1800 VA	
CU-1		60A Disconnect in NEMA 3R Enclosure for Heat Pump	240 V/2-5450 VA	
CU-2		60A Disconnect in NEMA 3R Enclosure for Heat Pump	240 V/2-7000 VA	
CU-3		60A Disconnect in NEMA 3R Enclosure for Heat Pump	240 V/2-7000 VA	
CU-4		60A Disconnect in NEMA 3R Enclosure for Heat Pump	240 V/2-7000 VA	
CU-5		30A Disconnect in NEMA 3R Enclosure for Heat Pump	240 V/2-4272 VA	
KMAU-1		30A Disconnect for MAU	240 V/2-2400 VA	
ODU-1		30A Disconnect in NEMA 3R Enclosure for Heat Pump	240 V/2-3440 VA	
ATS-P		400A ATS	480 V/3-0 VA	
INV-1		Emergency Inverter (IOTA IISCN 750 120M OB(2) 10AMP)	208 V/3-0 VA	
P		400A House Panel	240 V/2-0 VA	

### FIRE ALARM DEVICE SCHEDULE

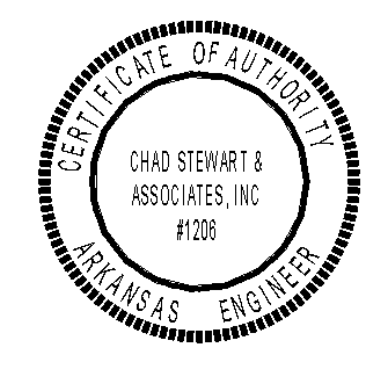
Description	Type Mark	Manufacturer	Model	Comments
Annunciator Panel	FAA-1	Siemens	FT2015-U2/R2	
Control Panel	FACP-1	Siemens	FS2025	
Duct Smoke Detector	DSD	Siemens	FDBZ492-HR	
Flow Switch	FS	Siemens	QVE1900	
Horn Strobe	15cd 90dBA	Siemens	SLHSWR-F	
Manual Pull Station	F	Siemens	HMS-D	
Monitor Module	MM	Siemens	XTRI-S	
Smoke Detector	SD	Siemens	FDO421	
Tamper Switch	TS	Siemens	HTSW-1	

DEMO NOTES:  
 1. REMOVE ALL ELECTRICAL CONDUIT AND WIRING BACK TO ELECTRICAL SERVICE. ELECTRICAL SERVICE TO BE UPDATED (SEE ONE-LINE DIAGRAMS).

**1 FLOOR PLAN - POWER**  
 E2.1  
 3/16" = 1'-0"



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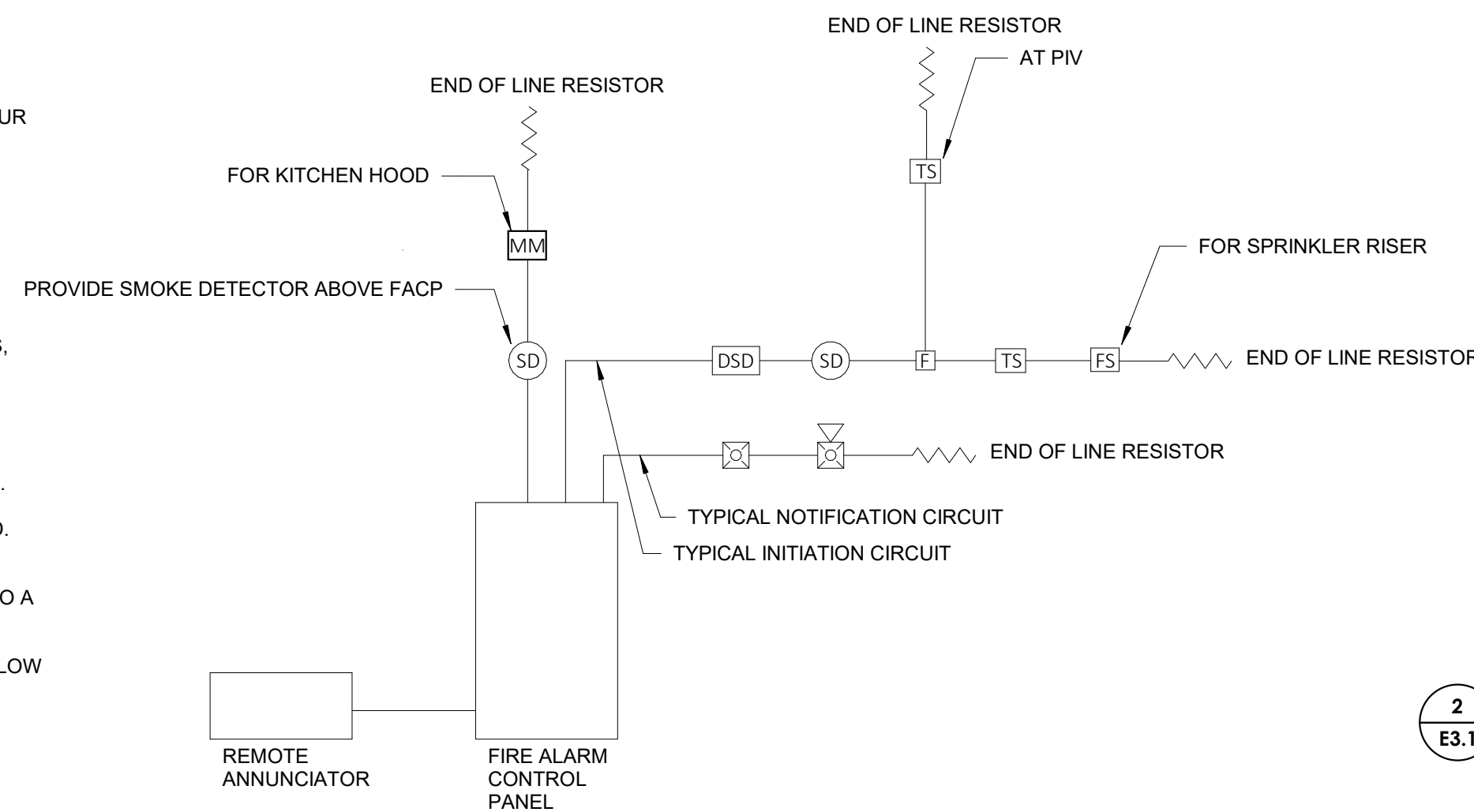


REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

DATE: 03-01-2024  
 DRAWN BY: JKJ  
 DESIGNER: JKJ  
 CHECKED BY: EJW  
 SEAL: [Professional Engineer Seal]  
**WILBANKS ARCHITECTURE & ASSOCIATES, LLC**  
 3367 Commander Dr., Ste 103  
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**FLOOR PLAN - POWER**  
 NEW COMMUNITY BUILDING  
 TRUMANN HOUSING AUTHORITY  
 TRUMANN, ARKANSAS  
 SHEET NUMBER:  
**E2.1**  
 PROJECT:  
 WAA: 1314-33

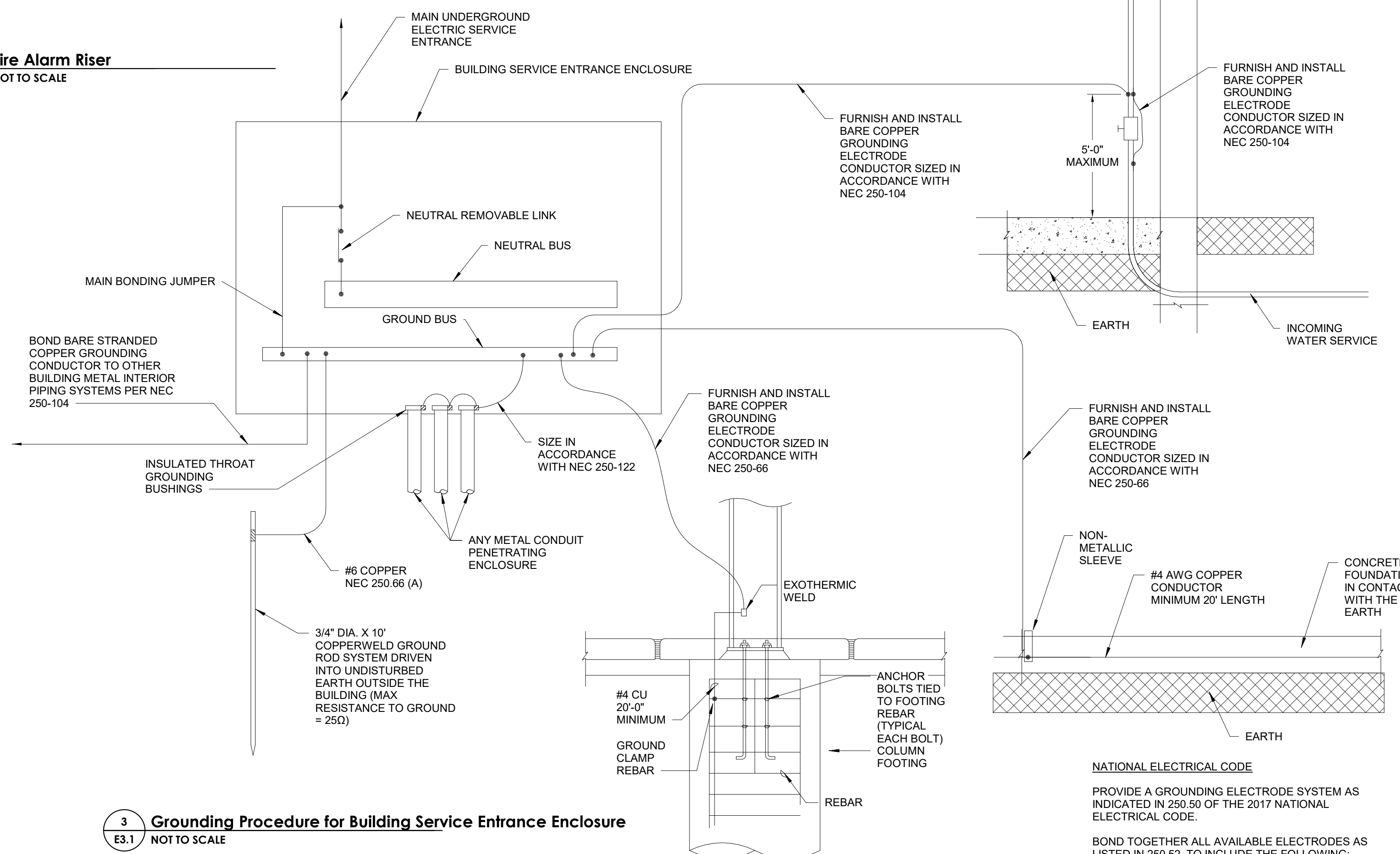
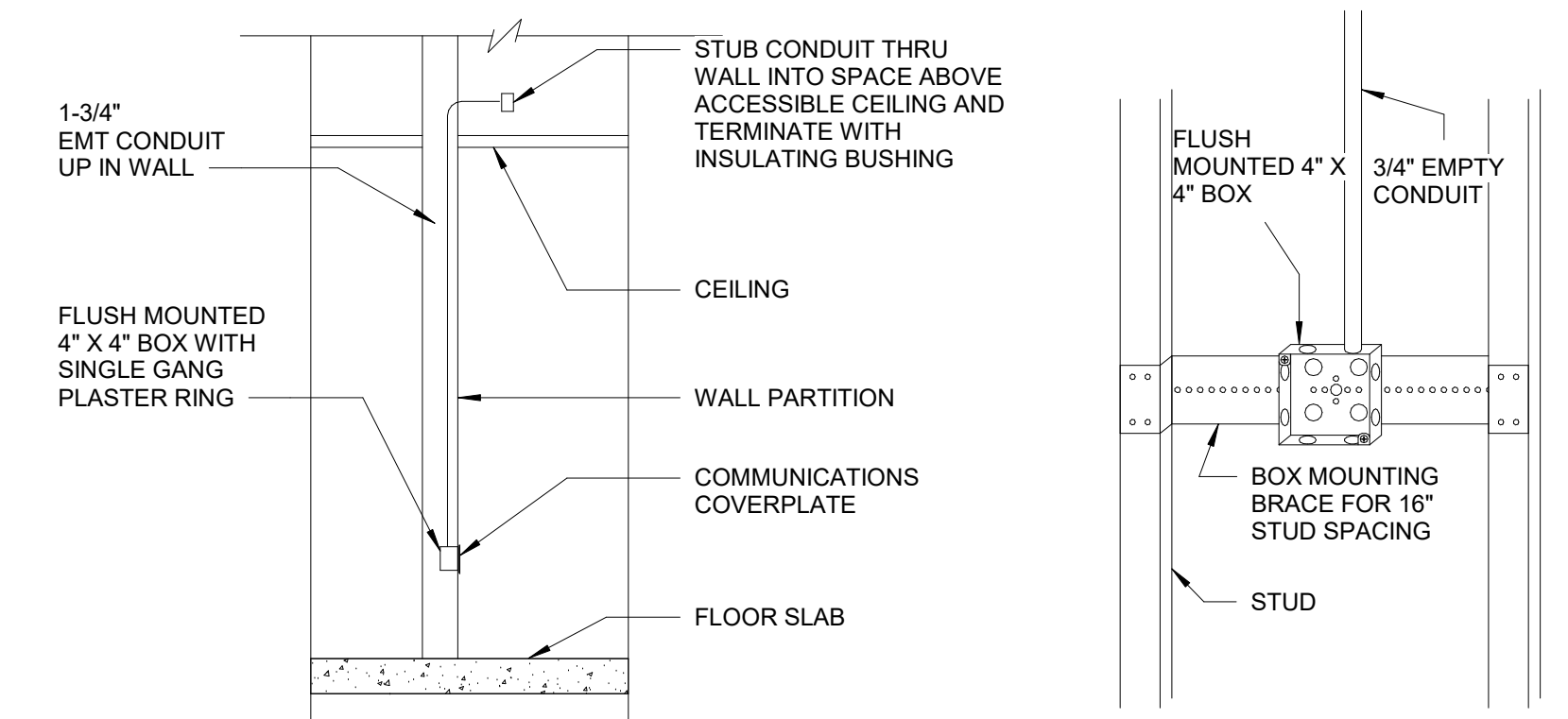
NOTES:

- FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 20 AND ADA.
- THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE, 24VDC, POWER LIMITED, FULLY SUPERVISED WITH 15 MINUTE ALARM, 24 HOUR STANDBY BATTERY SYSTEM. WHERE REQUIRED, VOICE EVACUATION TO BE PROVIDED WITH PRE-PROGRAMMED MESSAGE AND MANUAL OVERRIDE.
- ACTUATION OF ANY PULL STATION, FLOW SWITCH OR SMOKE DETECTOR SHALL ACTIVATE ALARM.
- NOTE THAT FIRE ALARM PLANS SUBMITTED HEREIN FOR BUILDING PERMIT ARE NOT PART OF THE BUILDING PLANS REVIEW. A SEPARATE SUBMITTAL AND PERMIT IS REQUIRED FOR THE FIRE ALARM AND/OR FIRE SPRINKLER SYSTEM.
- ALL FIRE ALARM SWITCHES, MODULES, AND WIRING SHALL BE PROVIDED BY THE FIRE ALARM SUB-CONTRACTOR, FIRE ALARM SYSTEM SUB-CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT DETAILED SYSTEM DRAWINGS, CUTSHEETS, WIRING DIAGRAMS, ETC. AS REQUIRED FOR FINAL PERMITTING.
- ALL COMPONENTS NECESSARY FOR CERTIFICATE OF OCCUPANCY SHALL BE INCLUDED IN THE BID. SEE PLANS FOR MINIMUM NUMBER OF DEVICES. COORDINATE WITH LOCAL AHJ FOR ADDITIONAL DEVICES THAT MAY BE REQUIRED.
- THE FIRE ALARM PANEL SHALL BE LOCATED IN AMBIENT CONDITIONS MAINTAINED BETWEEN 32°F AND 104°F, NON-CONDENSING.
- ALL TAMPER AND FLOW SWITCH CONNECTION LOCATIONS TO BE FIELD VERIFIED WITH SPRINKLER SUB-CONTRACTOR AS REQ'D. COORDINATE WITH M.C. TO PROVIDE SHUTDOWN INTERLOCK WIRING TO RESPECTIVE AHU AS REQUIRED.
- CALCULATE THE VOLTAGE DROP FOR ALL NOTIFICATION APPLIANCE CIRCUITS AND PROVIDE WIRING TO LIMIT VOLTAGE DROP TO A VALUE ALLOWING THE RATED OUTPUT OF THE DEVICE.
- FIRE ALARM INITIATION AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE LOADED TO NO MORE THAN 80% OF CAPACITY TO ALLOW FOR FUTURE DEVICE ADDITIONS. WHERE NECESSARY, BOOSTER POWER SUPPLIES ARE TO BE LOADED TO NO MORE THAN 80% CAPACITY.
- TEE TAPING OF NOTIFICATION APPLIANCE CIRCUIT WIRING IS NOT ALLOWED.
- COORDINATE DUAL LINE TELEPHONE CONNECTION FOR UL LISTED CENTRAL STATION MONITORING. ALL ALARM, TROUBLE AND SUPERVISORY CONDITIONS SHALL BE TRANSMITTED TO THE CENTRAL STATION
- PROVIDE DUCT DETECTOR INDICATING PLATE ON CEILING GRID UNDER EACH RESPECTIVE DUCT DETECTOR LOCATION. ADDRESSABLE PANEL DISPLAY TO NOTE ROOM NUMBER FOR ALL DEVICES.
- IN ALL SLEEPING AREAS AND GUEST ROOMS, PROVIDE SYSTEM SMOKE DETECTORS WITH LOW FREQUENCY SOUNDER BASES. FOR DESIGNATED HEARING IMPAIRED SPACES, INCLUDE STROBE ANNUNCIATION.
- PROVIDE SURGE PROTECTIVE DEVICE ON FACP INCOMING AC POWER (ADJACENT TO OR WITHIN PANEL.) ANY EXTERIOR FIRE ALARM CIRCUITS SHALL BE INSTALLED IN CONDUIT, MINIMUM 18" BELOW GRADE WITH ORANGE WARNING TAPE 6" ABOVE THE CONDUIT.
- VENDOR SHALL FULLY TEST AND CERTIFY THE FIRE ALARM SYSTEM. DOCUMENTING PROPER FUNCTION OF ALL DEVICES. INTERLOCKS, PROGRAMMING AND COMMUNICATIONS PROVIDING A FIRE ALARM SYSTEM RECORD OF COMPLETION AS REQUIRED BY NFPA 72.
- VENDOR SHALL PROVIDE OPERATIONS AND MAINTENANCE PROCEDURES, MANUALS, SYSTEM DOCUMENTATION AND A MINIMUM OF TWO, ONE-HOUR ON-SITE TRAINING SESSIONS FOR SYSTEM OPERATION FOR THE OWNER.

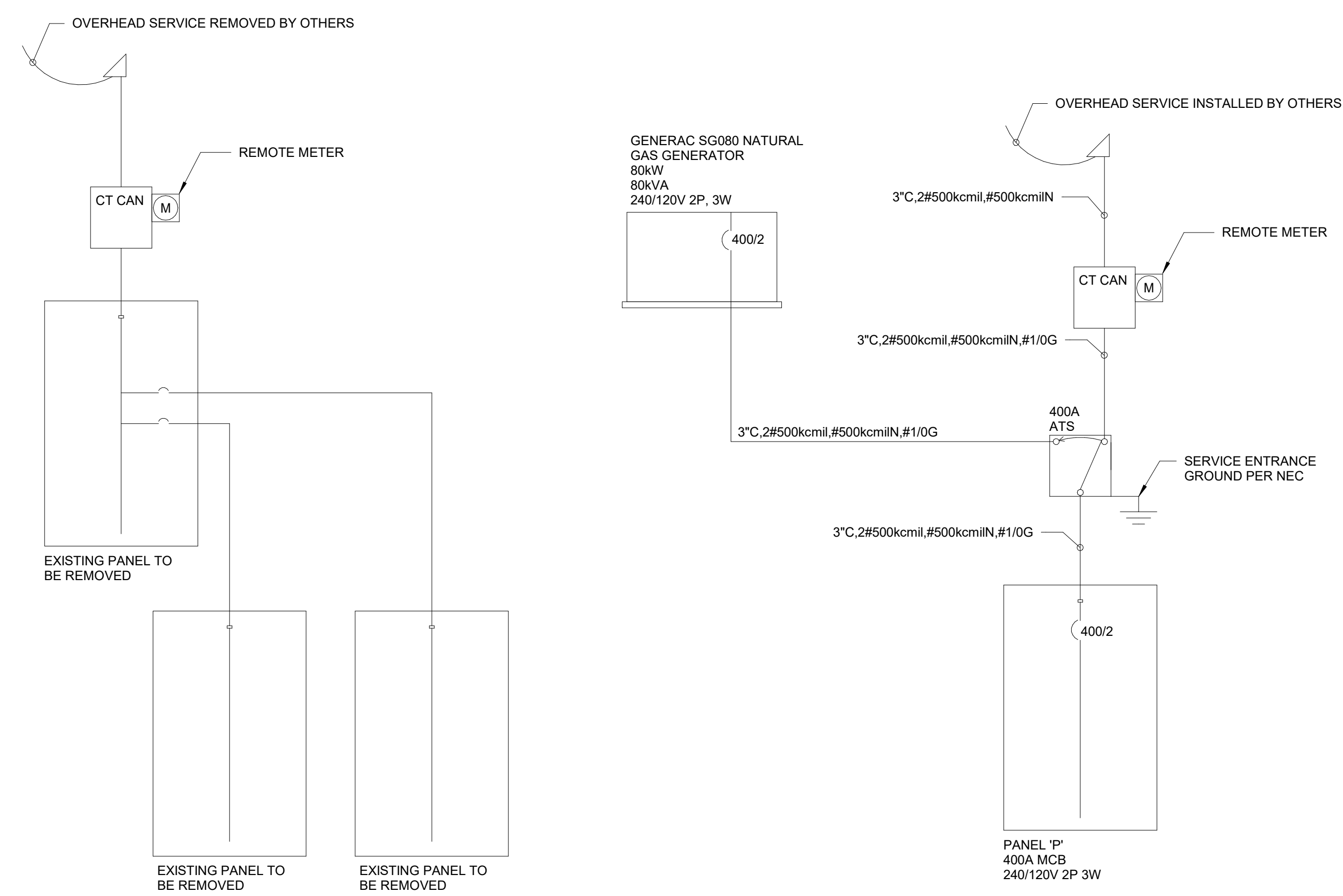


1 Fire Alarm Riser  
E3.1 NOT TO SCALE

2 Communications Outlet Wall Installation  
E3.1 NOT TO SCALE



3 Grounding Procedure for Building Service Entrance Enclosure  
E3.1 NOT TO SCALE



4 One-Line Diagram - DEMO  
E3.1 NOT TO SCALE

5 One-Line Diagram - NEW  
E3.1 NOT TO SCALE

**NATIONAL ELECTRICAL CODE**

PROVIDE A GROUNDING ELECTRODE SYSTEM AS INDICATED IN 250.50 OF THE 2017 NATIONAL ELECTRICAL CODE.

BOND TOGETHER ALL AVAILABLE ELECTRODES AS LISTED IN 250.52, TO INCLUDE THE FOLLOWING:

- METAL UNDERGROUND WATER PIPE
- METAL IN-GROUND SUPPORT STRUCTURE(S)
- CONCRETE ENCASED ELECTRODE
- GROUND RING
- ROD AND PIPE ELECTRODES
- OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES
- PLATE ELECTRODES

EXCLUDE THE FOLLOWING SYSTEMS AND MATERIALS NOT PERMITTED FOR USE AS GROUNDING ELECTRODES:

- METAL UNDERGROUND GAS PIPING SYSTEMS
- ALUMINUM
- STRUCTURES AND STRUCTURAL REINFORCING STEEL AS LISTED IN 680.26(B) (1) AND (B) (2)

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

DATE: 03-01-2024  
DRAWN BY: EJW  
DESIGNER: EJW  
CHECKED: BRecker

SEAL:  
STATE OF ARKANSAS  
LICENSED PROFESSIONAL ENGINEER  
No. 19444  
JAMES WILBANKS

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**ELECTRICAL DETAILS**  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

SHEET NUMBER:  
**E3.1**

PROJECT:  
WAA: 1314-33

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Memphis





PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE DATA				WASTE	VENT	C.W.	H.W.	REMARKS
DF-1	DUAL HEIGHT ELECTRIC WATER COOLER, ADA COMPLIANT, WALL HUNG, PROVIDE SUPPLIES AND STOPS, INSTALL CONCEALED FLOOR MOUNTED ARM CARRIER, ELKAY #E2SLBL.C.				1-1/2"	2"	1/2"	-	SEE NOTES.
FCO	FLOOR CLEANOUT, FULL SIZE.				-	-	-	-	SEE NOTES.
FD-1	SIOUX CHIEF #832 ADJUSTABLE ON GRADE FLOOR DRAIN, 7x7" SQUARE NICKEL-BRONZE STRAINER, 3" OUTLET.				3"	2"	-	-	SEE NOTES.
GCO	GRADE CLEANOUT, FULL SIZE				-	-	-	-	SEE NOTES.
GI-1	GREASE INTERCEPTOR EQUAL TO ZURN #GT2700, 50 GPM, PROVIDE WITH #JP2700 6" STACKABLE EXTENTIONS AS REQUIRED, UNIT SHALL BE INSTALLED FLUSH WITH FINISH FLOOR, CONTRACTOR TO FIELD VERIFY CLEARANCE TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY FOR CLEANING.				3"	2"	-	-	SEE NOTES.
IM-1	ICE MAKER OUTLET BOX				-	-	1/2"	-	SEE NOTES.
L-1	LAVATORY, ADA COMPLIANT, WHITE VITREOUS CHINA, COUNTER MOUNTED, 20" OVAL, EQUAL TO KOHLER #K-2699-4. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, PROVIDE WITH KOHLER K-8998 P-TRAP AND KOHLER K-15198-4RA-CP 4" CENTERSET FAUCET WITH VANDAL RESISTANT AERATOR SET TO 0.5 GPM AND GRID DRAIN.				1-1/4"	2"	1/2"	1/2"	SEE NOTES.
L-2	LAVATORY, ADA COMPLIANT, WHITE VITREOUS CHINA, WALL-HUNG, KOHLER #K-2005. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, PROVIDE WITH K-8998 P-TRAP AND KOHLER #K-15198-4RA-CP, 4" CENTERSET FAUCET WITH VANDAL RESISTANT AERATOR SET TO 0.5 GPM AND GRID DRAIN. PROVIDE TRUEBRO LAV-GUARD FOR P-TRAP AND SUPPLY STOPS.				1-1/4"	2"	1/2"	1/2"	SEE NOTES.
MS-1	PROFLO #PFMB2424 HIGH DENSITY COMPOSITE FLOOR MOUNTED MOP SINK WITH STAINLESS STEEL CAP ON THRESHOLD, 24"x24"x12", HOSE AND WALL BRACKET, 3-STATION MOP HANGER AND STAINLESS STEEL FLAT STRAINER, FURNISH STAINLESS STEEL WALL PANELS ON BACK AND ADJACENT WALL. PROVIDE WALL HUNG SERVICE SINK FAUCET EQUAL TO ZURN #Z1996-SF.				3"	2"	1/2"	1/2"	SEE NOTES.
NFWH-1	"ZURN" # 3/4" NON-FREEZE WALL HYDRANT WITH ANTI-SIPHON, AUTO DRAIN, BRONZE CASING, NICKLE BRONZE BOX AND HINGE COVER WITH OPERATING KEY LOCK AND INTEGRAL BACKFLOW PREVENTER. PROVIDE SHUTOFF VALVE INSIDE THE BUILDING ABOVE CEILING IN AN ACCESSIBLE LOCATION.				-	-	3/4"	-	SEE NOTES.
S-1	2-COMPARTMENT KITCHEN SINK - STAINLESS STEEL, 33"x22", EQUAL TO MOEN #21538 DOUBLE BOWL SINK WITH FAUCET.				1-1/2"	2"	1/2"	1/2"	SEE NOTES.
S-2	3-COMPARTMENT KITCHEN SINK EQUAL TO REGENCY #600S31515G, 54" OVERALL LENGTH, WITHOUT DRAINBOARDS, 15"x15"x12" BOWLS.				1-1/2"	1-1/4"	1/2"	1/2"	SEE NOTES.
U-1	URINAL, WHITE VITREOUS CHINA, WALL HUNG, 3/4" TOP SPUD, ZURN #Z5755-U, 0.5 GPF, ADA COMPLIANT, INTEGRAL VACUUM BREAKER, BATTERY POWERED, SENSOR ACTIVATED, #ZTR6203-EWS FLUSH VALVE. PROVIDE APPROPRIATE FLOOR MOUNTED CARRIER.				2"	2"	3/4"	-	SEE NOTES.
W-1	FLOOR MOUNTED FLUSH VALVE WATER CLOSET SYSTEM EQUAL TO AMERICAN STANDARD MADERA #2854-016, ADA COMPLIANT, WHITE VITREOUS CHINA, INCLUDES 1.6 GPF MANUAL FLUSH VALVE, AND 1" ANGLE STOP. PROVIDE WITH #5901.100 ELONGATED OPEN FRONT SEAT.				4"	2"	1/2"	-	SEE NOTES.
WCO	WALL CLEANOUT, FULL SIZE				-	-	-	-	SEE NOTES.

- NOTES:
- PROVIDE LAVATORIES WITH TEMPERATURE LIMITING DEVICE EQUAL TO WATTS USG-B THERMOSTATIC MIXING VALVES WITH **ASSE 1070** APPROVAL. SEE DETAIL.
  - PROVIDE TRAP SEAL EQUAL TO ZURN Z1072 FOR TRAPS SUBJECT TO EVAPORATION AS REQUIRED BY SECTION 1002.4 OF THE IPC 2018.
  - PROVIDE FULL SIZE CLEANOUTS.
  - ITEMS SPECIFIED IN THIS SCHEDULE ARE LISTED AS STANDARD. COMPARABLE ITEMS MAY BE SUBMITTED FOR APPROVAL MEETING THIS STANDARD.

GAS WATER HEATER EQUIPMENT SCHEDULE											
MARK	MANUFACTURER	MODEL	DESCRIPTION	INPUT (MBH)	NOMINAL CAPACITY (GAL.)	AMPS	V/PH/Hz	THERMAL EFFICIENCY	WIDTH	HEIGHT	REMARKS
WH-1	AO SMITH	BTH-120	GAS WATER HEATER	120.0	60	5	120V/60	95%	27.75"	55.5"	SEE NOTES.

- NOTES:
- RECOVERY RATING OF 154 GALLONS PER HOUR AT 90°F RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 150 PSI. WATER
  - PROVIDE WITH VACUUM RELIEF VALVE EQUAL TO WATTS LFN36-M1.
  - PROVIDE WITH SEISMIC SUPPORT STRAP EQUAL TO HOLDRITE QUICK STRAP #QS-50.
  - PROVIDE WITH AQUASTAT EQUAL TO HONEYWELL L4006A1959.
  - PROVIDE WITH GALVANIZED WATER HEATER DRAIN PAN.
  - PROVIDE WITH MFR. SUPPLIED AUTOMATIC GAS SHUTOFF DEVICE.

BACKFLOW PREVENTER SCHEDULE						
MARK	MANUFACTURER	MODEL	SIZE	MOUNTING	REMARKS	
BFP-1	WATTS	LF-007	2"	HORIZONTAL	SEE NOTES.	

- NOTES:
- PIPED FULL SIZE TO FLOOR DRAIN.

EXPANSION TANK SCHEDULE						
MARK	MANUF.	MODEL	CAPACITY	DIAMETER	HEIGHT	REMARKS
ET-1	PROFLO	PFXTGI	2.1 GAL.	8"	11.6"	-

CIRCULATING PUMP SCHEDULE							
MARK	MANUFACTURER	MODEL	DESCRIPTION	TOTAL FT HD	V/PH/Hz	HP	REMARKS
CP-1	GRUNDFOSS	UPS 15-55SFC	IN-LINE CIRCULATOR	8	115/1/60	1/12	SEE NOTES.

SCOPE OF WORK																													
<p><b>SCOPE OF WORK</b> THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE ALL LOCAL CODES AND OTHER REGULATION GOVERNING WORK. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT. EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL WRAP ALL EXPOSED PVC PIPING IN UL RATED WRAP WITH A 25/50 FLAME SPREAD / SMOKE DEVELOPED INDEX. CONTRACTOR SHALL REPAIR ALL CORE DRILLED HOLES IN SPACE THAT ARE NOT UTILIZED IN THE NEW WORK (FIELD VERIFY EXISTING HOLES).</p> <p><b>PERMITS</b> THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.</p> <p><b>SHOP DRAWINGS</b> SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT AND THEY SHALL BE CLEARLY LABELED.</p> <p><b>MISCELLANEOUS</b> ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE. COORDINATE THE INSTALLATION OF ALL ROOF FLASHINGS AT ROOF PENETRATIONS. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.</p> <p><b>SOIL, WASTE AND VENT PIPING</b> SOIL, WASTE AND VENT PIPING 1" AND SMALLER SHALL PVC, ASTM 2665, D1785, SCHEDULE 40 PVC WITH PVC FITTINGS, AND SOLVENT WELD JOINTS WITH ASTM 2564 SOLVENT CEMENT.</p> <p><b>DOMESTIC WATER PIPING</b> DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH NON-LEAD, NON-ANTIMONY SOLDER OR APPROVED EQUAL. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE.</p> <p><b>CROSS-LINKED POLYETHYLENE (PEX) PIPE</b> CONFORMING TO STANDARDS ASTM F876 OR ASTM F877 SHALL BE ACCEPTABLE.</p> <p><b>DOMESTIC HOT WATER PIPING</b> THAT IS PART OF HWR SYSTEM SHALL BE CPVC, PEX OR PVC PIPING IS NOT ACCEPTABLE.</p> <p><b>CONDENSATE DRAINAGE PIPING</b> THE PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FOR AIR HANDLING UNITS. CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH 50/50 SOLDER OR SCHEDULE 40 PVC DWV OR APPROVED EQUAL.</p> <p><b>HANGERS &amp; SUPPORTS</b> THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS INSTALLED AS REQUIRED BY LOCAL CODES ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS, NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.</p> <p><b>CONNECTIONS</b> INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.</p> <p><b>CLEANOUTS</b> PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY CODE IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.</p> <p><b>INSTALLATION</b> INSTALL EXPOSED PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, CONCRETE FLOOR AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.</p> <p><b>GENERAL</b> PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.</p> <p><b>VALVES</b> PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>VALVE TYPE</th> <th>MANUFACTURER</th> <th>MODEL NO.</th> </tr> </thead> <tbody> <tr> <td>CHECK VALVE (UP TO 2")</td> <td>NIBCO</td> <td>#S-22</td> </tr> <tr> <td>FULL PORT BALL VALVE (UP TO 3")</td> <td>NIBCO</td> <td>#S-PP-600</td> </tr> <tr> <td>GATE VALVE (UP TO 3")</td> <td>NIBCO</td> <td>#S-113</td> </tr> <tr> <td>TEMP. &amp; PRESSURE RELIEF VALVE</td> <td>WILKINS</td> <td>#7P1100A</td> </tr> <tr> <td>WATER HAMMER ARRESTOR</td> <td>WILKINS</td> <td>#1250</td> </tr> <tr> <td>BACKFLOW PREVENTER (DEVICE)</td> <td>WILKINS</td> <td>#700</td> </tr> <tr> <td>VACUUM RELIEF VALVE</td> <td>WILKINS</td> <td>#35VCH</td> </tr> <tr> <td>PRESSURE REDUCING VALVE</td> <td>WILKINS</td> <td>#500YSBR</td> </tr> </tbody> </table> <p><b>SUPPLY</b> IF WATER PRESSURE SUPPLIED TO STORE IS GREATER THAN 40 PSI, PROVIDE A PRESSURE REGULATOR TO MAIN SUPPLY TO MAINTAIN WATER PRESSURE. PROVIDE BACKFLOW PREVENTION ON WATER SERVICE IF REQUIRED BY LOCAL CODES.</p> <p><b>TESTING</b> ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.</p> <p><b>GUARANTEE</b> MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. FOR THE SAME PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.</p>			VALVE TYPE	MANUFACTURER	MODEL NO.	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GENERAL NOTES	
1.	THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM (HVAC) AS INDICATED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS AS INDICATED.
2.	REMOVE CONNECTING UTILITIES (WATER, DRAINAGE, POWER, GAS, ETC.) AS INDICATED OR NECESSARY FOR FUTURE RECONNECTION IF REQUIRED.
3.	CONTRACTOR SHALL EMPLOY WORKMEN WHO ARE TRAINED AND EXPERIENCED IN NECESSARY SKILLS TO PERFORM DEMOLITION WORK.
4.	CONTRACTOR SHALL USE APPROPRIATE TOOLS AND SHALL NOT IMPART EXCESSIVE VIBRATIONS TO THE EXISTING STRUCTURE OR OTHER BUILDING COMPONENTS.
5.	COORDINATE PIPING WITH EXISTING STRUCTURAL, ELECTRICAL, HVAC, COMMUNICATION, AND FIRE PROTECTION. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS OF TRADES.
6.	ALL NEW & DEMOLISHED PIPING PENETRATIONS SHALL BE FULLY SEALED WATERTIGHT.
7.	EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL, NEMA, ANSI, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
8.	ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
9.	PROVIDE AND INSTALL ALL "P" TRAPS, MANIFOLDS, DRAIN LINES, SHUT-OFFS, GREASE TRAPS & BACKFLOW PREVENTORS AS REQUIRED BY EQUIPMENT AND/OR LOCAL CODES.
10.	IF WATER PRESSURE AT EQUIPMENT AREA EXCEEDS 40 P.S.I. FLOW PRESSURE, INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT AND COLD WATER SUPPLY LINES.
11.	LOCATE AND FURNISH ALL AREA FLOOR DRAINS UNLESS OTHERWISE SPECIFIED.
12.	THESE PLANS ARE FOR INFORMATION ONLY. INFORMATION ON THIS SHEET IS TO BE REVIEWED BY THE OWNER AND INCORPORATED INTO THE PLANS IN ACCORDANCE WITH LOCAL CODES. THE ENTIRE INSTALLATION SHALL CONFORM WITH THE LATEST EDITION OF THE LOCAL AND STATE PLUMBING CODE IN ADDITION TO LANDLORD REQUIREMENTS AND SPECIFICATIONS.
13.	THE OWNER SHOULD SUBMIT THESE PLANS TO LOCAL BUILDING, HEALTH AND FIRE DEPARTMENT OFFICIALS FOR APPROVAL.
14.	CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED IN EXISTING BUILDING WHENEVER POSSIBLE.
15.	ALL INDIRECT WASTES EXCEEDING 24" IN LENGTH SHALL BE TRAPPED.
16.	PROVIDE CLEANOUTS REQUIRED, & AT THE BASE OF ALL STACKS.
17.	PROVIDE FIXTURE STOPS AT ALL PLUMBING FIXTURES.
18.	PROVIDE ALL FITTING & ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
19.	PROVIDE AUTOMATIC BALANCING VALVES IN ALL HWR CIRCUITS.

PIPING INSULATION							
<p><b>WATER PIPING</b> PROVIDE THERMAL INSULATION ON ALL HOT TEMPERED &amp; COLD WATER, AND HORIZONTAL WASTE PIPING IN CEILING SPACES, AND ON ALL COLD WATER PIPING IN CASEWORK AND BAR AREAS. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURE APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25" FOR FLAME SPREAD, 50" FOR FUEL CONTRIBUTED, OR 50" FOR SMOKE DEVELOPED. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES, THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>PIPE SIZE</th> <th>INSULATION THICKNESS</th> </tr> </thead> <tbody> <tr> <td>LESS THAN OR EQUAL TO 1-1/2"</td> <td>1"</td> </tr> <tr> <td>2" DIA. OR GREATER</td> <td>1-1/2"</td> </tr> </tbody> </table> <p>(INSULATION VALUE = K VALUE NOT EXCEEDING 2.027 BTU PER INCH*H*1°F)</p> <p><b>SAFETY COVERS</b> INSTALL SPECIFIED NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AT ALL EXPOSED PIPING.</p> <p><b>HVAC PIPING</b> INSULATE REFRIGERANT SUCTION PIPING AND COOLING COIL CONDENSATE PIPING 3/4" THICK, SELF SEALING, CLOSED CELL FOAM. INSULATE CONDENSATE PIPING WITH 1-1/2" THICK, HEAVY DUTY, SELF SEALING, JACKETED FIBERGLASS.</p>		PIPE SIZE	INSULATION THICKNESS	LESS THAN OR EQUAL TO 1-1/2"	1"	2" DIA. OR GREATER	1-1/2"
PIPE SIZE	INSULATION THICKNESS						
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COMMERCIAL ENERGY EFFICIENCY	
1.	(C404.3) HEAT TRAPS SHALL BE INSTALLED ON SUPPLY AND DISCHARGE PIPING ON NON-CIRCULATING SYSTEMS.
2.	(C404.4) ALL PIPING SHALL BE INSULATED IN ACCORDANCE WITH SECTION DETAILS AND TABLE C403.2.10.
3.	(C404.5, C404.5.1, C404.5.2) HEATED WATER SUPPLY PIPING SHALL CONFORM TO PIPE LENGTH AND VOLUME REQUIREMENTS.
4.	(C404.6.1) CONTROLS SHALL BE INSTALLED THAT LIMIT THE OPERATION OF A RECIRCULATION PUMP INSTALLED TO MAINTAIN TEMPERATURE OF A STORAGE TANK.
5.	(C404.6.1, C404.6.2) AUTOMATIC TIME SWITCHES SHALL BE INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM OR HEAT TRACE.
6.	(C404.6.3) THE CONTROLS ON PUMPS THAT CIRCULATE WATER BETWEEN A WATER HEATER AND A HEATED-WATER STORAGE TANK SHALL LIMIT OPERATION OF THE PUMP FROM HEATING CYCLE STARTUP TO NOT GREATER THAN 5 MINUTES AFTER THE END OF THE CYCLE.
7.	(C404.7) A WATER DISTRIBUTION SYSTEM HAVING ONE OR MORE RECIRCULATION PUMPS THAT PUMP WATER FROM A HEATED-WATER SUPPLY PIPE BACK TO THE HEATED-WATER SOURCE THROUGH A COLD-WATER SUPPLY PIPE SHALL BE A DEMAND RECIRCULATION WATER SYSTEM. PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF THE FOLLOWING: <ol style="list-style-type: none"> <li>THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.</li> <li>THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).</li> </ol>

PLUMBING LEGEND		
**NOT ALL SYMBOLS MAY BE USED**		
SYMBOL	ABB.	DESCRIPTION
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RECIRC.
	S	SANITARY
	CD	CONDENSATE DRAIN
	SD	STORM DRAIN
	V	SANITARY VENT
		UNDERGROUND PIPING
		PIPE TURN DOWN
		PIPE TURN UP
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		BALANCING VALVE
		BUTTERFLY VALVE
		STRAINER
		REDUCER
		ANCHOR
		CAP/PLUG
	CO	CLEANOUT (ABOVE CEILING)
		UNION
	FCO	FLOOR CLEAN OUT
	CTE	CONNECT TO EXISTING
	WCO	WALL CLEAN OUT
	FD	FLOOR DRAIN
	VTR	VENT THRU ROOF
	IE	INVERT ELEVATION
	AFF	ABOVE FINISHED FLOOR
	WH	WATER HEATER
	WC	WATER CLOSET
	BFP	BACKFLOW PREVENTER
	(E)	EXISTING
	(D)	DEMOLISH

PLUMBING SHEET INDEX	
Sheet Number	Sheet Name
P0.1	GENERAL NOTES, SCHEDULES AND LEGEND
P1.1	FLOOR PLAN - DWV
P1.2	FLOOR PLAN - PLUMBING
P2.1	RISER DIAGRAMS
P3.1	DETAILS - PLUMBING

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER: **P0.1**

PROJECT: WAA: 1314-33

DATE: 03-01-2024  
DRAWN BY: ETC  
DESIGNER: ETC  
CHECKED BY: GW

SEAL:

PROJECT NO: 23617

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GENERAL NOTES, SCHEDULES AND LEGEND

NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

WILBANKS ARCHITECTURE & ASSOCIATES, LLC

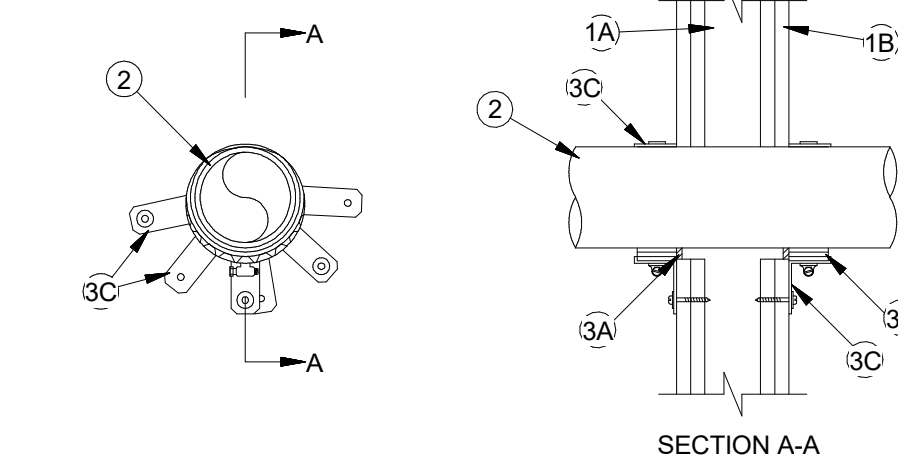
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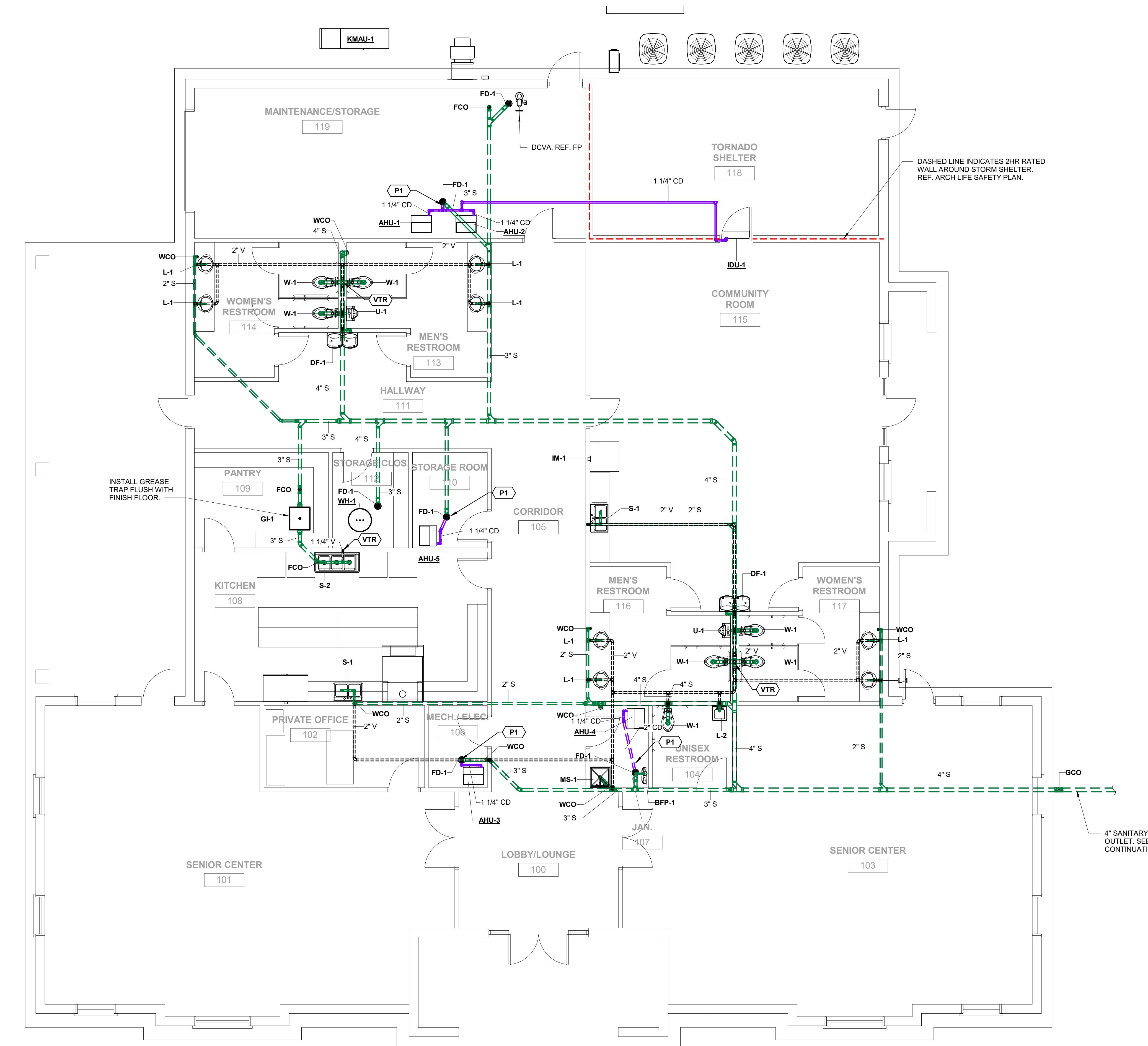
#	PLUMBING KEYNOTE LEGEND
P1	ROUTE 2" CD UNDERSLAB TO INLET SIDE OF FLOOR DRAIN TRAP.
P2	PROVIDE FULL LINE SIZE SHUTOFF VALVE IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN AREAS WITH HARD CEILINGS. (TYP.)
VTR	APPROXIMATE LOCATION OF VENT THROUGH ROOF. MAINTAIN MIN. 10'-0" FROM OUTSIDE AIR INTAKES ON MECHANICAL EQUIPMENT.

SYSTEM NO. W-L-2546  
 F RATINGS - 1 AND 2 HR (SEE ITEM 1)  
 T RATINGS - 1 AND 2 HR (SEE ITEM 2)



- WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400, OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
  - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NON 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3 1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
  - GYPSUM BOARD - THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS AND ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 5 IN.
 THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- THROUGH PENETRANTS - ONE NONMETALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE OR CONDUIT AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO A MAX 1/2 IN. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL. THE FOLLOWING TYPES AND SIZES OF PIPES OR CONDUITS MAY BE USED:
  - POLYVINYL CHLORIDE (PVC) PIPE - NOM 4 IN. DIAM OR SMALLER SCHEDULE 40 CELLULAR OR SOLID CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE, OR VENT) PIPING SYSTEMS.
  - CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 4 IN. DIAM OR SMALLER SDR13.5 CPVC PIPE FOR USE IN (PROCESS OR SUPPLY) PIPING SYSTEMS.
  - CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN. DIAM OR SMALLER FLOWGUARD GOLD SDR11 CPVC PIPE FOR USE IN (PROCESS OR SUPPLY) PIPING SYSTEMS.
  - CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN. DIAM OR SMALLER BLAZEMASTER SDR13.5 CPVC PIPE FOR USE IN (PROCESS OR SUPPLY) PIPING SYSTEMS.
  - ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE - NOM 4 IN. DIAM OR SMALLER SCHEDULE 40 CELLULAR CORE OR SOLID CORE ABS PIPE FOR USE IN (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE, OR VENT) PIPING SYSTEMS.
  - RIGID NONMETALLIC CONDUIT - NOM. 2 IN. DIAM OR SMALLER SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA NO. 70).
- FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
  - FILL, VOID, OR CAVITY MATERIAL - SEALANT - MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
  - FILL, VOID, OR CAVITY MATERIAL - WRAP STRIP - NOM 3/16 IN. THICK BY 1-3/4 IN. WIDE INTUMESCENT WRAP STRIP. FOR NOM 2 IN. DIAM OR SMALLER PIPES/CONDUITS, A MIN OF TWO LAYERS OF WRAP STRIP ARE REQUIRED. FOR NOM 2-1/2 IN. TO 4 IN. DIAM PIPES/CONDUITS, A MIN OF THREE LAYERS OF WRAP STRIP ARE REQUIRED. THE LAYERS OF WRAP STRIP ARE INDIVIDUALLY WRAPPED AROUND THE PIPE TO THE FULLEST EXTENT POSSIBLE WHILE ALLOWING THE PENETRANT TO REMAIN AT POINT CONTACT WITHIN THE OPENING AND IN THE COLLAR. WRAP STRIP BUTTED TIGHTLY AGAINST BOTH SURFACES OF WALL.
  - STEEL COLLAR - STEEL COLLAR FABRICATED FROM COILS OF PRECUT MIN 0.016 IN. THICK GALV STEEL AVAILABLE FROM FILL MATERIAL MANUFACTURER. COLLAR SHALL BE NOM 1-3/4 IN. DEEP WITH 1 IN. WIDE BY 2 IN. LONG ANCHOR TABS ON 1-3/4 IN. CENTERS FOR ATTACHMENT TO BOTH SURFACES OF WALL. IN ADDITION, COLLARS CONTAIN RETAINER TABS 1/2 IN. WIDE BY 3/16 IN. LONG, LOCATED OPPOSITE THE ANCHOR TABS. COLLAR SHALL BE TIGHTLY WRAPPED OVER THE WRAP STRIP, OVERLAPPING MIN 1 IN. AT SEAM AND COMPRESSED WITH A MIN 0.028 IN. THICK STAINLESS STEEL BAND AT COLLAR MIDHEIGHT. OPTIONAL SECUREMENT OF THE COLLAR MAY BE ACCOMPLISHED WITH TWO SHEET METAL SCREWS SCREWED THROUGH THE OVERLAPPING PORTION OF THE COLLAR. THE RETAINER TABS ARE FOLDED 90 DEG TOWARDS THE PIPE TO MAINTAIN THE ANNULAR SPACE AROUND THE PIPE AND TO RETAIN THE WRAP STRIP. COLLAR SECURED TO BOTH SURFACES OF WALL WITH MIN 1-1/2 IN. LONG DRYWALL OR LAMINATE SCREWS WITH MIN 3/4 IN. STEEL WASHERS COLLAR FASTENED TO WALL AT EVERY OTHER TAB. NO ANCHOR TAB IS REQUIRED AT POINT CONTACT LOCATION OF COLLAR TO PENETRANT.

2 NONMETALLIC PIPE THROUGH RATED WALL  
 P1.1 NOT TO SCALE

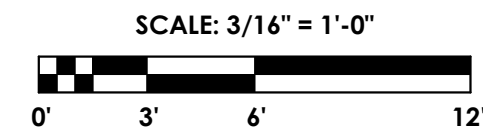


INSTALL GREASE TRAP FLUSH WITH FINISH FLOOR.

DASHED LINE INDICATES 2HR RATED WALL AROUND STORM SHELTER. REF. ARCH LIFE SAFETY PLAN.

4" SANITARY WASTE OUTLET. SEE CIVIL FOR CONTINUATION

1 FLOOR PLAN - DWV  
 P1.1 3/16" = 1'-0"

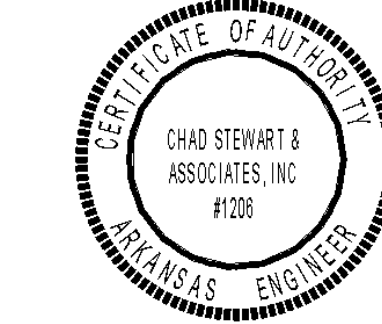


REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SHEET NUMBER:  
**P1.1**

PROJECT:  
 WAA: 1314-33

**CSA** ENGINEERING  
 Chad Stewart & Associates, Inc.  
 9720 Village Circle Lakeland, TN 38002  
 Phone 901-260-7850 www.CSAengineeringinc.com  
 Memphis



#	PLUMBING KEYNOTE LEGEND
P1	ROUTE 2" CD UNDERSLAB TO INLET SIDE OF FLOOR DRAIN TRAP.
P2	PROVIDE FULL LINE SIZE SHUTOFF VALVE IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN AREAS WITH HARD CEILINGS. (TYP.)
VTR	APPROXIMATE LOCATION OF VENT THROUGH ROOF. MAINTAIN MIN. 10'-0" FROM OUTSIDE AIR INTAKES ON MECHANICAL EQUIPMENT.

DATE: 03-01-2024

DRAWN BY: ETC

DESIGNER: ETC

CHECKED BY: GW

SEAL:



**WILBANKS**  
ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
Arlington, Tennessee 38002  
Phone: 901-867-5200  
Fax: 901-867-5331  
Website: www.wilbanksa.com

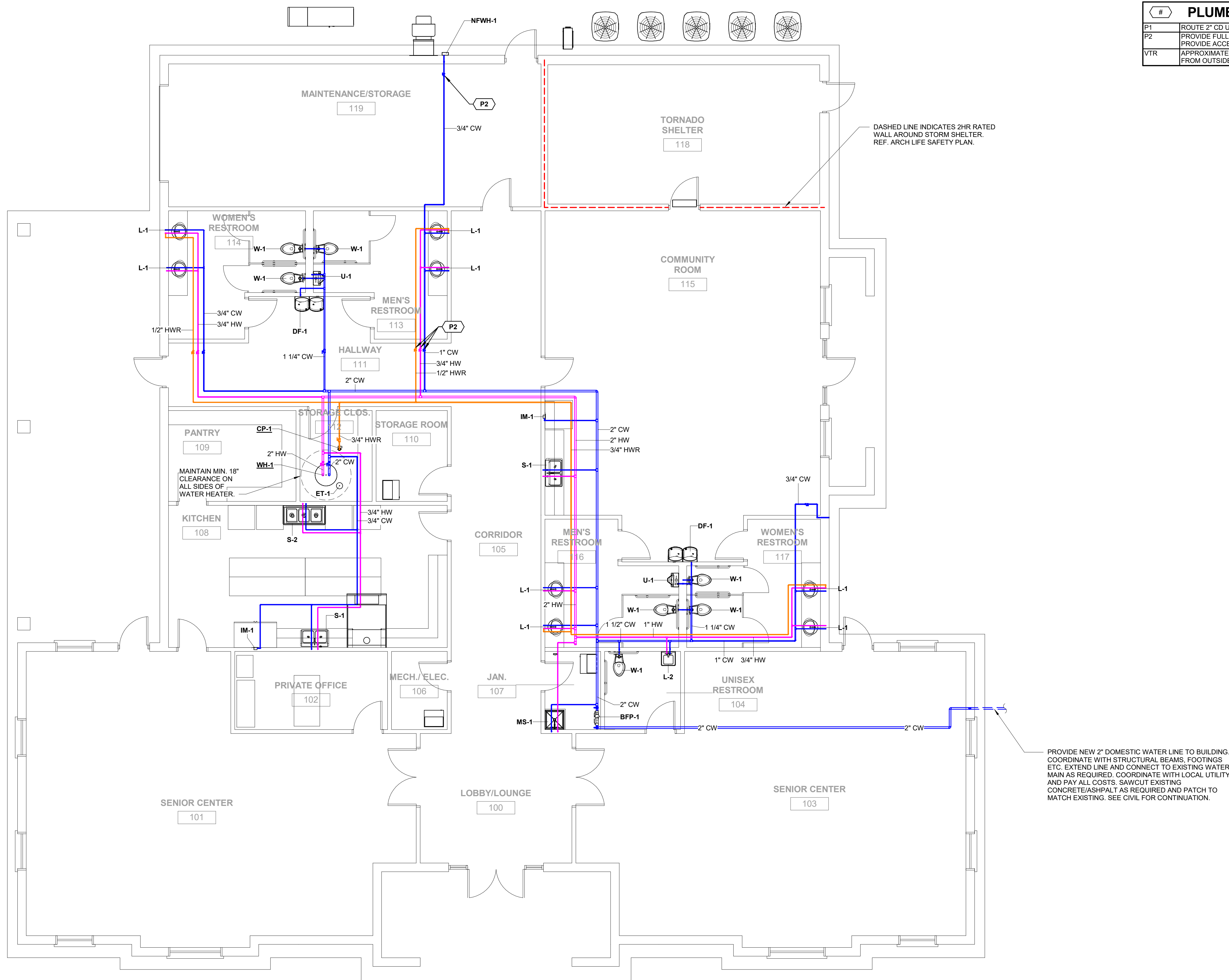
FLOOR PLAN - PLUMBING  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

SHEET NUMBER:

**P1.2**

PROJECT:

WAA: 1314-33



DASHED LINE INDICATES 2HR RATED WALL AROUND STORM SHELTER. REF. ARCH LIFE SAFETY PLAN.

PROVIDE NEW 2" DOMESTIC WATER LINE TO BUILDING. COORDINATE WITH STRUCTURAL BEAMS, FOOTINGS ETC. EXTEND LINE AND CONNECT TO EXISTING WATER MAIN AS REQUIRED. COORDINATE WITH LOCAL UTILITY AND PAY ALL COSTS. SAWCUT EXISTING CONCRETE/ASHPALT AS REQUIRED AND PATCH TO MATCH EXISTING. SEE CIVIL FOR CONTINUATION.

**1 FLOOR PLAN - PLUMBING**  
P1.2 3/16" = 1'-0"

SCALE: 3/16" = 1'-0"

**CSA** ENGINEERING  
PROJECT NO: 23617

Chad Stewart & Associates, Inc.  
9720 Village Circle Lakeland, TN 38002  
Phone 901-260-7850 www.CSAengineeringinc.com  
Memphis



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

Autodesk Docs://23617 Trumann HA Community Building/MEP/23617 v24.rvt

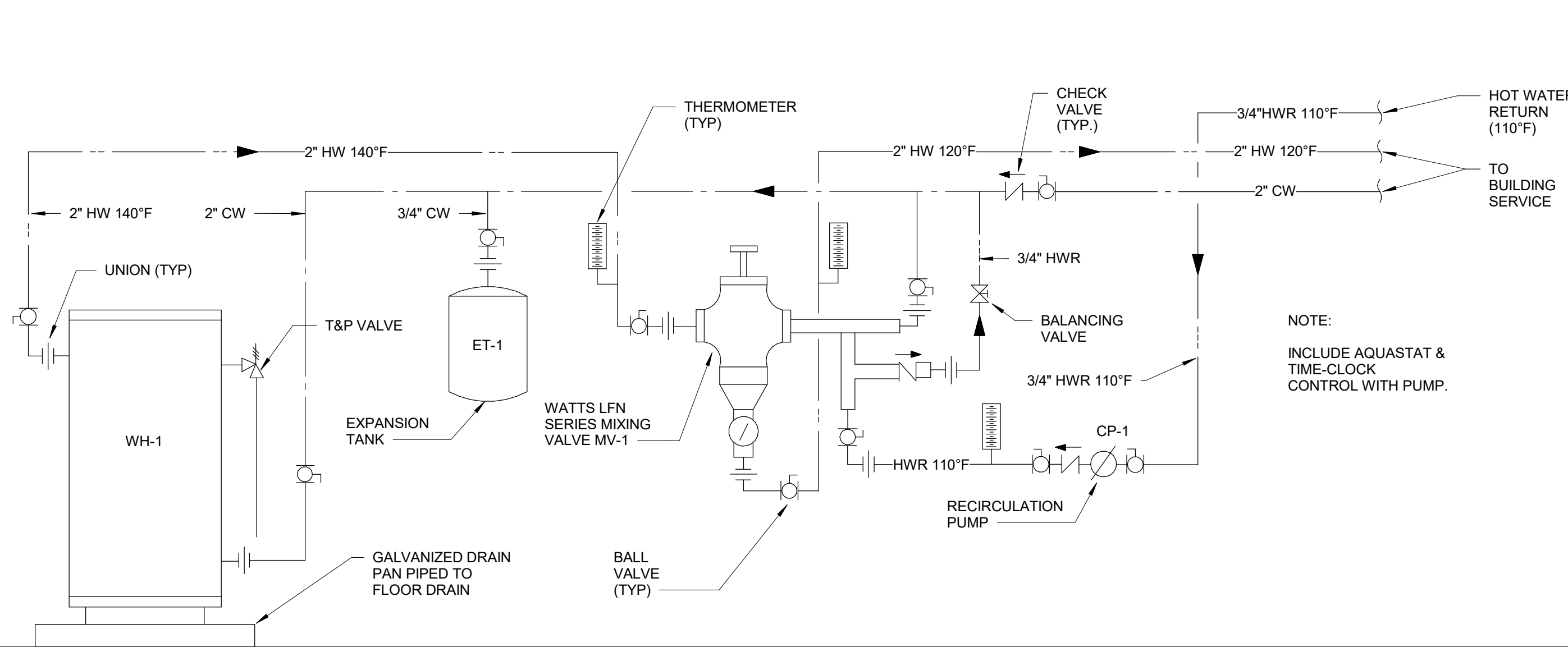




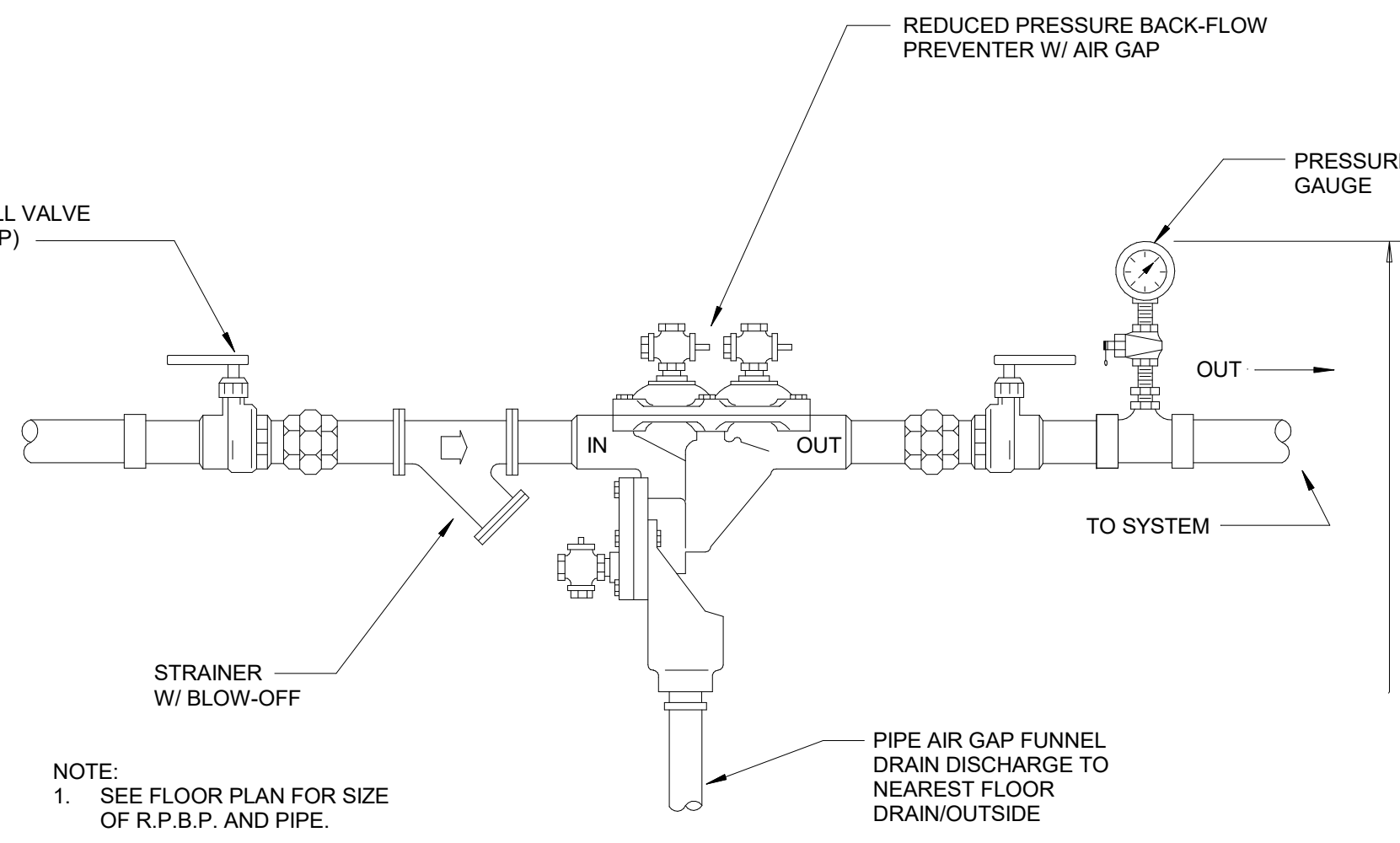
# WILBANKS ARCHITECTURE & ASSOCIATES, LLC

3367 Commander Dr., Ste 103  
Arlington, Tennessee 38002  
Phone: 901-867-5320  
Fax: 901-867-5331  
Website: www.wilbanks.com

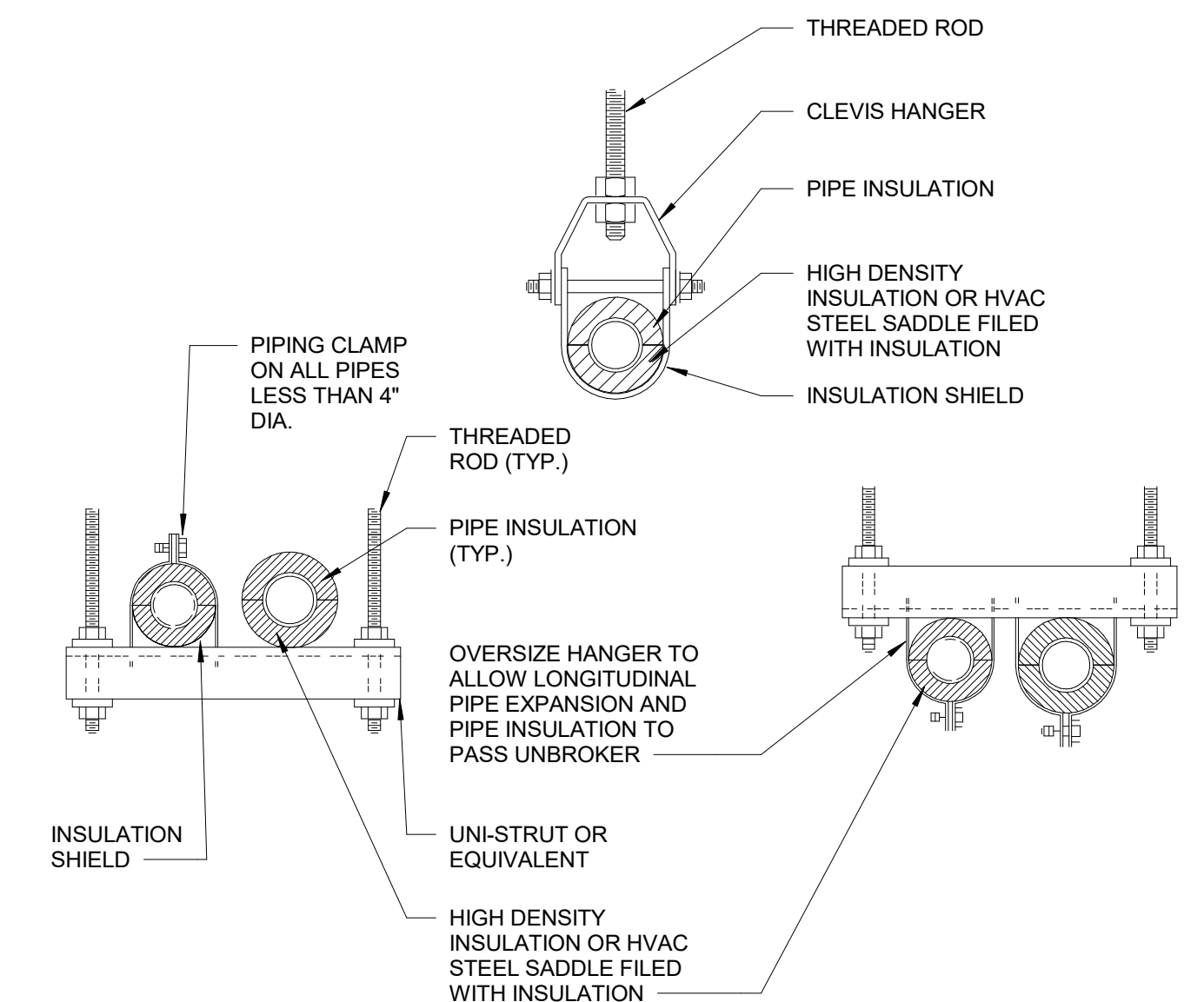
## DETAILS - PLUMBING NEW COMMUNITY BUILDING TRUMANN HOUSING AUTHORITY TRUMANN, ARKANSAS



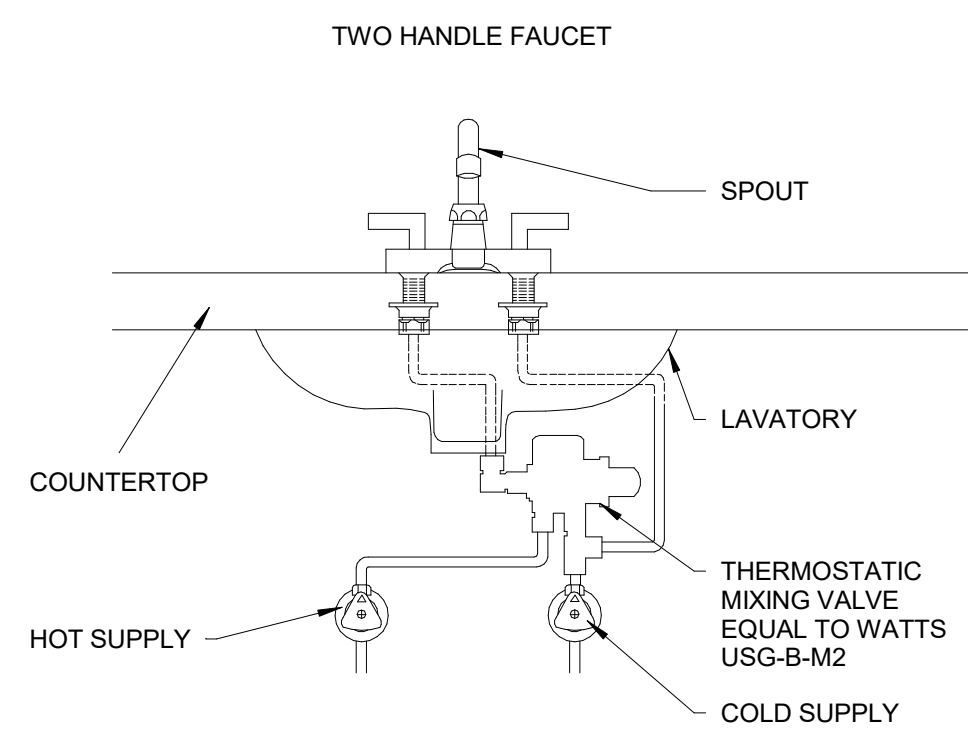
1 WATER HEATER PIPING DETAIL  
P3.1 NOT TO SCALE



2 REDUCED PRESSURE BACKFLOW PREVENTER  
P3.1 NOT TO SCALE

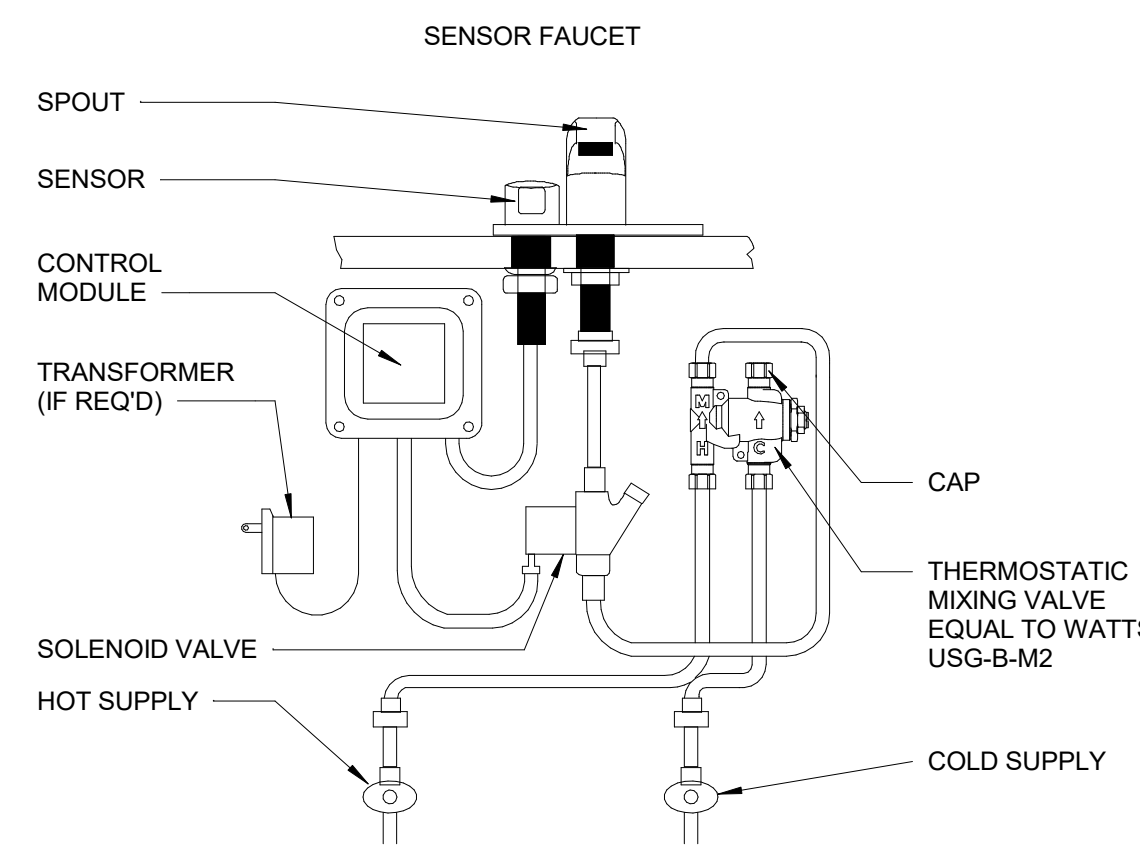


3 PIPE SUPPORT DETAIL  
P3.1 NOT TO SCALE

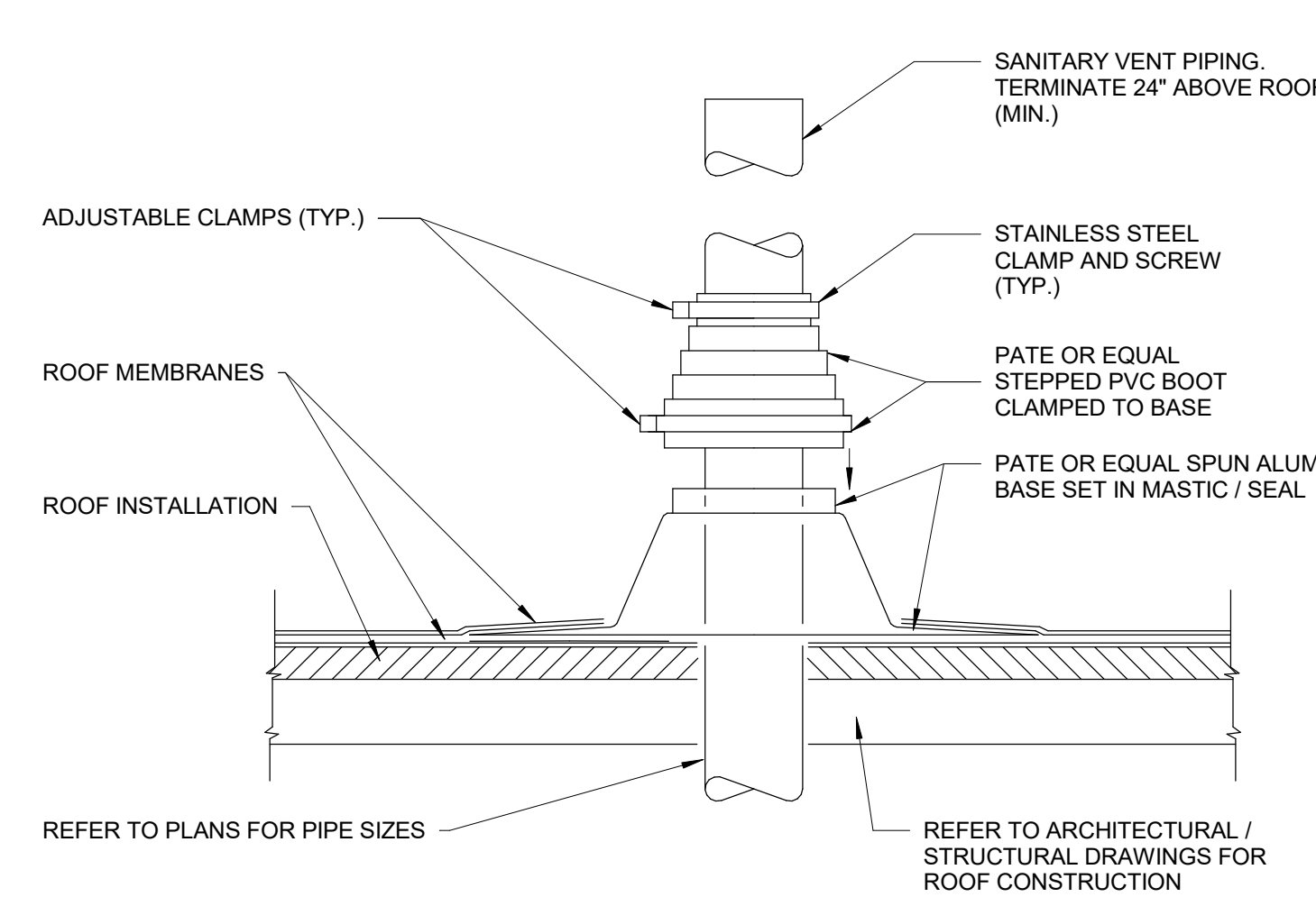


- NOTE:
1. PLUMBING CONTRACTOR TO LOCATE WATER SUPPLIES TO ACCOMMODATE MIXING VALVE INSTALLATION. THERMOSTATIC MIXING VALVE SHALL BE INSTALLED ON THE HOT WATER SUPPLY TO THE FIXTURE.
  2. THE VALVE SHALL BE COMPLIANT WITH ASSE STANDARD 1070.
  3. LIMIT TEMPERATURE TO A MAXIMUM OF 110°F.

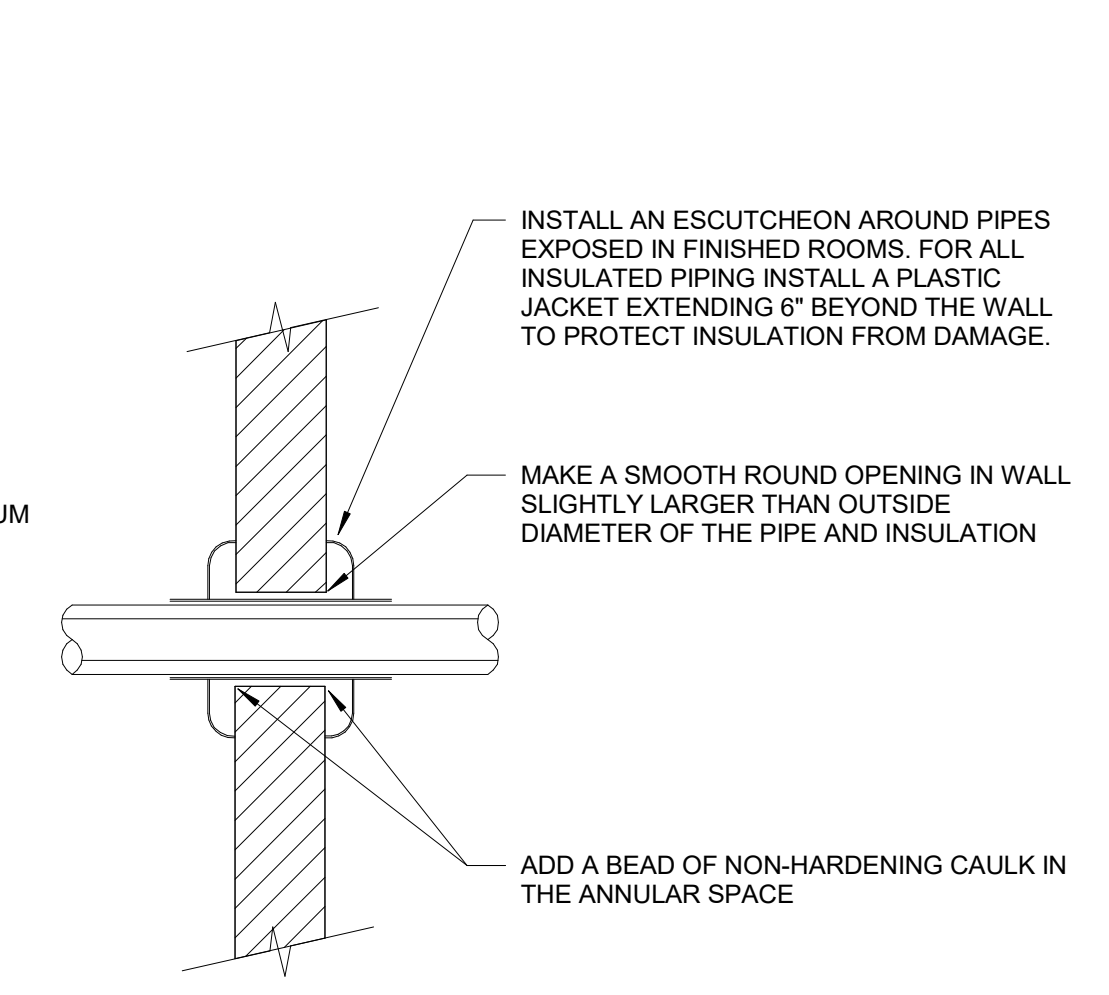
4 THERMOSTATIC MIXING VALVE DETAIL  
P3.1 NOT TO SCALE



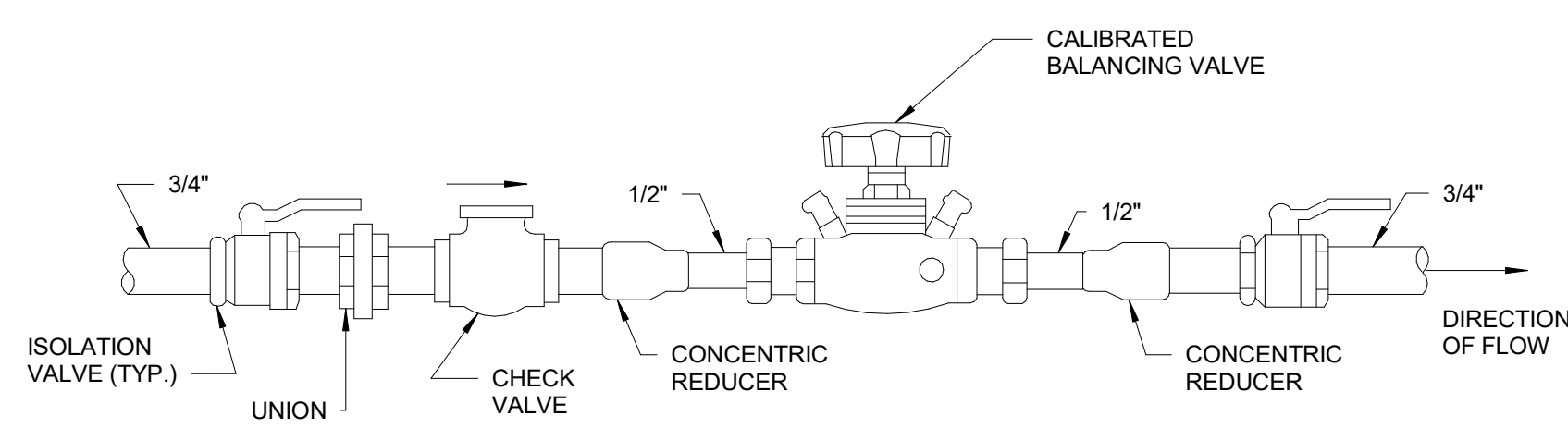
5 WALL CLEANOUT DETAIL  
P3.1 NOT TO SCALE



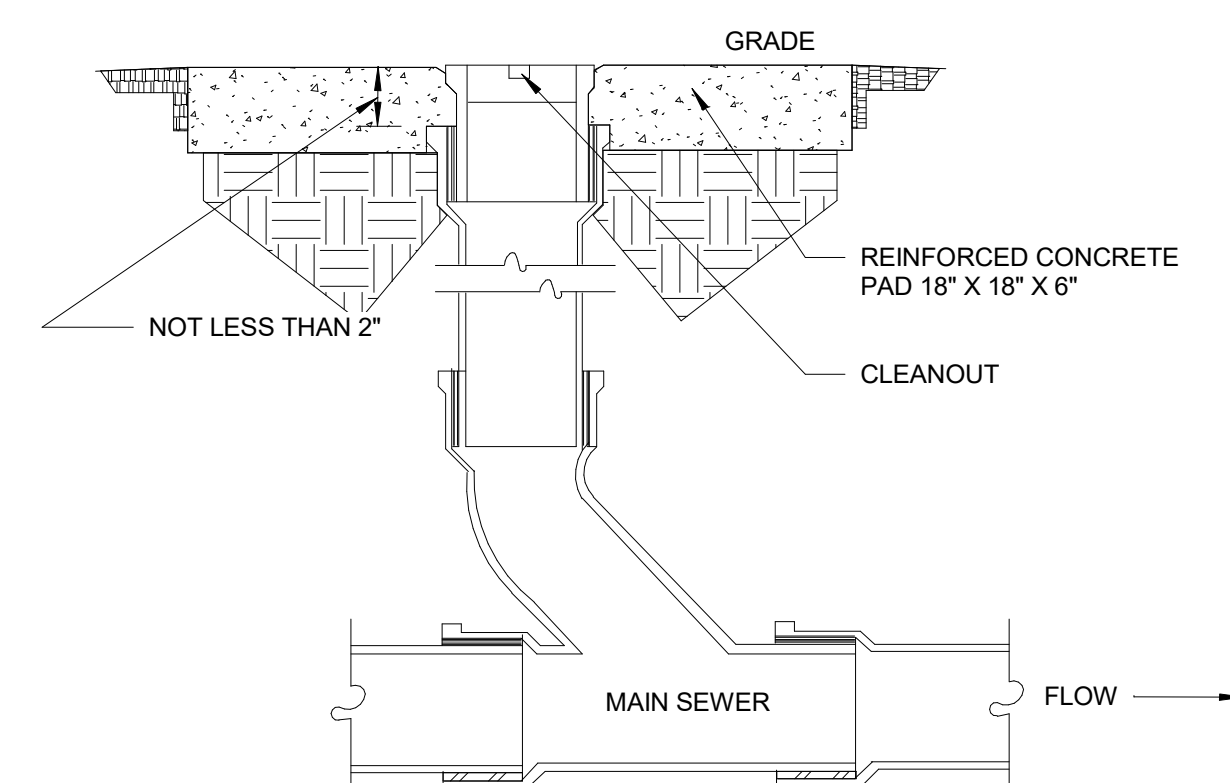
6 VENT THROUGH ROOF DETAIL  
P3.1 NOT TO SCALE



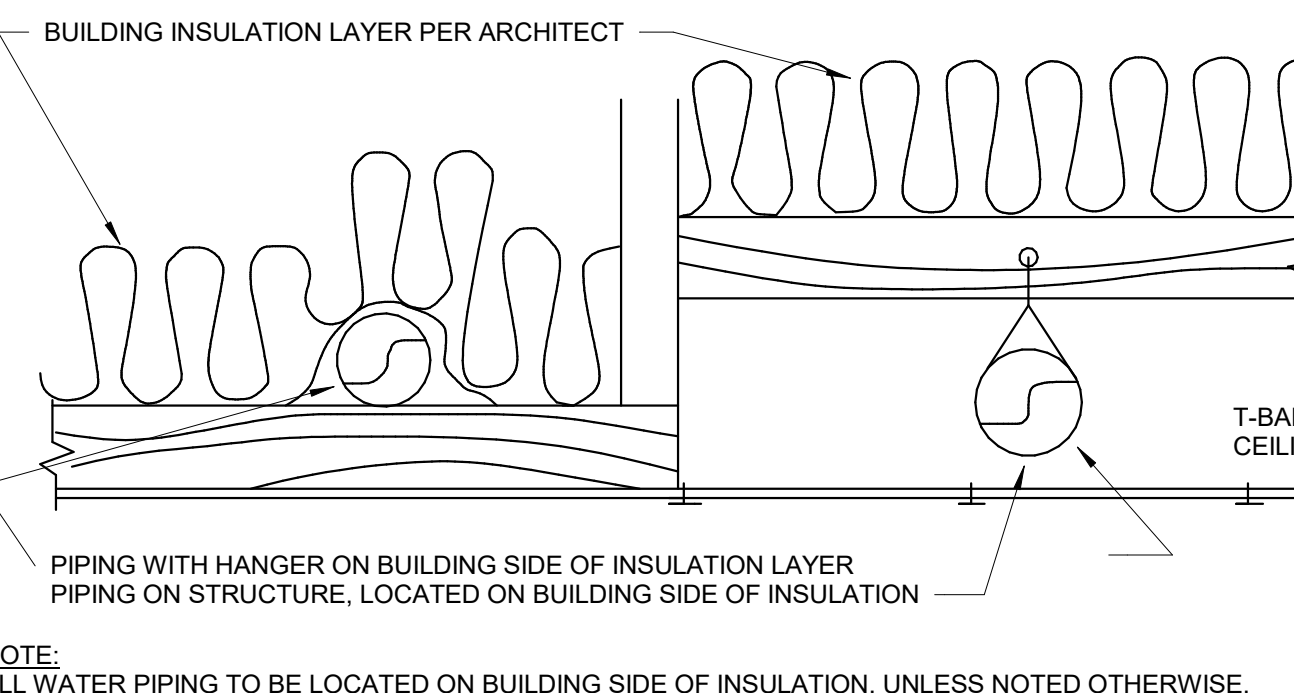
7 INTERIOR WALL PENETRATION DETAIL  
P3.1 NOT TO SCALE



8 DOMESTIC HOT WATER RETURN DETAIL  
P3.1 NOT TO SCALE



9 EXTERIOR CLEANOUT DETAIL  
P3.1 NOT TO SCALE

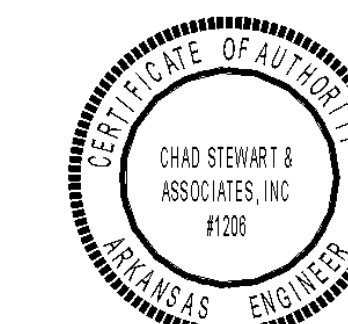


NOTE: ALL WATER PIPING TO BE LOCATED ON BUILDING SIDE OF INSULATION, UNLESS NOTED OTHERWISE.

STRUCTURE INDICATED IS EXAMPLE ONLY, SEE ARCHITECTURAL FOR ACTUAL CONSTRUCTION METHODS.

10 INSTALLATION DETAIL FREEZE PROTECTION  
P3.1 NOT TO SCALE

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MEMPHIS



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## SCOPE OF WORK

### SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. FIRE PROTECTION SYSTEM INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- COVERAGE FOR ENTIRE BUILDING (UNLESS NOTED OTHERWISE). REVIEW ALL PLANS INCLUDING ARCHITECTURAL ELEVATIONS, SECTIONS, AND DETAILS TO INSURE ADEQUATE COVERAGE.
- PROVIDE HYDRAULICALLY DESIGNED SYSTEM TO NFPA 13 OCCUPANCY REQUIREMENTS.
- DETERMINE VOLUME AND PRESSURE OF INCOMING WATER SUPPLY FROM WATER FLOW TEST DATA.
- INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM. PROVIDE FIRE DEPARTMENT CONNECTIONS, PIVS & FIRE HYDRANTS AS INDICATED ON DRAWINGS.
- IT IS THE INTENT THAT THE BUILDING BE COVERED WITH A "WET" TYPE SPRINKLER SYSTEM.
- THE SPRINKLER DESIGN SHALL BE LIGHT HAZARD GROUP AND ORDINARY HAZARD GROUP 1 (STORAGE SPACES 100FT<sup>2</sup> OR LARGER AND JANITOR CLOSETS) USING UPRIGHT, PENDANT, CONCEALED OR SEMI-RECESSED SPRINKLER HEADS.
- PROVIDE UL LISTED FIRE STOPPING SYSTEM AND TESTED ASSEMBLY IN ALL RATED WALL AND FLOOR PIPE PENETRATIONS. FIRESTOP SEALANTS AND MATERIALS 3M FIRE PROTECTION PRODUCTS, OR EQUIVALENT.
- INSTALL THE FIRE PROTECTION SYSTEM IN COMPLIANCE WITH NFPA 13, LOCAL CODES, AND LOCAL FIRE OFFICIAL REQUIREMENTS.
- SEAL ALL PENETRATIONS THRU FIRE RATED WALLS AND FLOORS WITH CAULK.
- COORDINATE SPRINKLER DISTRIBUTION PIPING ELEVATIONS WITH NEW CEILING HEIGHT. REFER TO ARCHITECTURAL PLANS AND SECTIONS.
- PROVIDE COMPLETE SHOP DRAWINGS PER SPECS INDICATING ALL HVAC, ELECTRICAL, PLUMBING, AND STRUCTURAL ELEMENTS ON SAME. ALL PLANS SHALL BE FULLY DIMENSIONED AS TO LOCATION OF SPRINKLER PIPING.
- OBTAIN STAMPED AND WRITTEN APPROVAL OF SYSTEM FROM ALL GOVERNING AUTHORITIES PRIOR TO SUBMITTING SAME FOR APPROVAL TO THE ARCHITECT.

ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND OTHER REGULATIONS GOVERNING WORK. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT. THE CONTRACTOR SHALL PROVIDE FIRE FLOW TEST PRIOR TO CONSTRUCTION. COORDINATE WITH LOCAL UTILITY AND AHJ AS REQUIRED PER IFC, AND PAY ALL COSTS.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION. CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH THE OWNER.

### PERMITS

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.

### SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT AND THEY SHALL BE CLEARLY LABELED AS FOLLOWS:

- SHOP DRAWINGS: INDICATE LAYOUT OF FINISHED CEILING AREAS INDICATING SPRINKLER LOCATIONS COORDINATED WITH CEILING INSTALLATION. INDICATE DETAILED PIPE LAYOUT, HANGERS AND SUPPORTS, SPRINKLERS, COMPONENTS AND ACCESSORIES. INDICATE SYSTEM CONTROLS.
- PRODUCT DATA: SUBMIT DATA ON SPRINKLERS, VALVES, AND SPECIALTIES, INCLUDING MANUFACTURERS CATALOG INFORMATION. SUBMIT PERFORMANCE RATINGS, ROUGH-IN DETAILS, WEIGHTS, SUPPORT REQUIREMENTS, AND PIPING CONNECTIONS.
- DESIGN DATA: SUBMIT DESIGN CALCULATIONS, SIGNED AND SEALED BY A NICET LEVEL III CERTIFIED TECHNICIAN.
- MANUFACTURER'S CERTIFICATE: CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.

### CLOSEOUT SUBMITTALS

- PROJECT RECORD DOCUMENTS: RECORD ACTUAL LOCATIONS OF SPRINKLERS AND DEVIATIONS OF PIPING FROM DRAWINGS. INDICATE DRAIN AND TEST LOCATIONS.
- OPERATION AND MAINTENANCE DATA: SUBMIT COMPONENTS OF SYSTEM, SERVICING REQUIREMENTS, RECORD DRAWINGS, INSPECTION DATA, REPLACEMENT PART NUMBERS AND AVAILABILITY.

### MISCELLANEOUS

ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

## PIPING

### UNDERGROUND PIPING

PROVIDE WATER SERVICE LINES FOR FIRE PROTECTION AS PVC PIPE. PIPES & FITTINGS SHALL BE PLAIN END OR GASKET BELL END, PRESSURE CLASS 200 WITH CAST-IRON PIPE EQUIVALENT OD. PIPE & FITTINGS SHALL BEAR THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF). FITTINGS SHALL BE GREY IRON OR DUCTILE IRON WITH CEMENT-MORTAR LINING.

PVC CLASS 150 PIPING SHALL BE ACCEPTABLE UNDERGROUND EXCEPT UNDER THE FOUNDATION, WHICH SHALL BE CLASS 350 DUCTILE IRON.

### ABOVE GROUND PIPING

- PIPE SIZE 2" AND SMALLER: ASTM A53; OR ASTM A795, SCHEDULE 40 BLACK, GALVANIZED FOR DRY PIPE SYSTEM.
- STEEL FITTINGS: ASME B16.9, WROUGHT STEEL, BUTT WELDED; ASME B16.25, BUTT WELD ENDS; OR ASME B16.11, FORGED STEEL SOCKET WELDED AND THREADED.
- CAST IRON FITTINGS: ASME B16.4, THREADED FITTINGS.
- MALLEABLE IRON FITTINGS: ASME B16.3, THREADED FITTINGS.
- MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.
- BLACK STEEL PIPE SHALL BE ACCEPTABLE FOR ALL DRY OR WET SYSTEMS.

- PIPE SIZE 2-1/2" AND LARGER: ASTM A135; OR ASTM A795, SCHEDULE 10 OR 40, BLACK, GALVANIZED FOR DRY PIPE SYSTEM.
- MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.
- SCHEDULE 10 PIPE: ROLLED GROOVE.
- CAST IRON PIPE: AWWA C151.
- FITTINGS: AWWA C110, STANDARD THICKNESS.
- JOINTS: AWWA C111, RUBBER GASKET.
- MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED COMPOSITION SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.
- BLACK STEEL PIPE SHALL BE ACCEPTABLE FOR ALL DRY OR WET SYSTEMS.

### PIPE HANGERS AND SUPPORTS

ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACE OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

- INSTALL IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
- INSTALL HANGERS TO WITH MINIMUM 1/2 INCH SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
- PLACE HANGERS WITHIN 12 INCHES OF EACH HORIZONTAL ELBOW.
- USE HANGERS WITH 1-1/2 INCH MINIMUM VERTICAL ADJUSTMENT. DESIGN HANGERS FOR PIPE MOVEMENT WITHOUT DISENGAGEMENT OF SUPPORTED PIPE.
- SUPPORT VERTICAL PIPING AT EVERY FLOOR. SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZONTAL PIPING.
- WHERE INSTALLING SEVERAL PIPES IN PARALLEL AND AT SAME ELEVATION, PROVIDE MULTIPLE OR TRAPEZE HANGERS.
- PRIME COAT EXPOSED STEEL HANGERS AND SUPPORTS. HANGERS AND SUPPORTS LOCATED IN CRAWL SPACES, PIPE SHAFTS, AND SUSPENDED CEILING SPACES ARE NOT CONSIDERED EXPOSED.
- HANGERS FOR PIPE SIZES 1/2 TO 1-1/2 INCH: CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING.
- HANGERS FOR PIPE SIZES 2 INCH AND OVER: CARBON STEEL, ADJUSTABLE, CLEVIS.
- MULTIPLE OR TRAPEZE HANGERS: STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS.
- WALL SUPPORT FOR PIPE SIZES TO 3 INCHES: CAST IRON HOOK.
- WALL SUPPORT FOR PIPE SIZES 4 INCHES AND OVER: WELDED STEEL BRACKET AND WROUGHT STEEL CLAMP.
- VERTICAL SUPPORT: STEEL RISER CLAMP.
- FLOOR SUPPORT: CAST IRON ADJUSTABLE PIPE SADDLE, LOCK NUT, NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.
- COPPER PIPE SUPPORT: CARBON STEEL RING, ADJUSTABLE, COPPER PLATED.

### EXECUTION

#### PREPARATION

- REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.
- REMOVE SCALE AND FOREIGN MATERIAL, FROM INSIDE AND OUTSIDE, BEFORE ASSEMBLY.
- PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.

#### INSTALLATION

- INSTALL PIPING IN ACCORDANCE WITH NFPA 13 FOR SPRINKLER SYSTEMS, NFPA 14 FOR STANDPIPE AND HOSE SYSTEMS, AND NFPA 24 FOR SERVICE MAINS.
- ROUTE PIPING IN ORDERLY MANNER. PLUMB AND PARALLEL TO BUILDING STRUCTURE. MAINTAIN GRADIENT.
- INSTALL PIPING TO CONSERVE BUILDING SPACE, TO NOT INTERFERE WITH USE OF SPACE AND OTHER WORK.
- GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.
- INSTALL PIPE SLEEVE AT PIPING PENETRATIONS THROUGH PARTITIONS, WALLS, AND FLOORS. SEAL PIPE AND SLEEVE PENETRATIONS TO MAINTAIN FIRE RESISTANCE EQUIVALENT TO FIRE SEPARATION.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- SLOPE PIPING AND ARRANGE SYSTEMS TO DRAIN AT LOW POINTS. INSTALL ECCENTRIC REDUCERS TO MAINTAIN TOP OF PIPE LEVEL.
- PREPARE PIPE, FITTINGS, SUPPORTS, AND ACCESSORIES FOR FINISH PAINTING. WHERE PIPE SUPPORT MEMBERS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC RICH PRIMER TO WELDING.
- DO NOT PENETRATE BUILDING STRUCTURAL MEMBERS UNLESS INDICATED.
- WHERE MORE THAN ONE PIPING SYSTEM MATERIAL IS SPECIFIED, INSTALL COMPATIBLE SYSTEM COMPONENTS AND JOINTS. INSTALL FLANGES, UNION, AND COUPLINGS AT LOCATIONS REQUIRING SERVICING.
- DIE CUT THREADED JOINTS WITH FULL CUT STANDARD TAPER PIPE THREADS WITH RED LEAD AND UNSEED OIL OR OTHER NON-TOXIC JOINT COMPOUND APPLIED TO MALE THREADS ONLY.
- INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. REMOVE PROTECTIVE COATINGS AFTER INSTALLATION.
- INSTALL GATE OR BALL VALVES FOR SHUT-OFF OR ISOLATING SERVICE.
- INSTALL DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS OF PIPING AND APPARATUS.
- WHERE INSERTS ARE OMITTED, DRILL THROUGH CONCRETE SLAB FROM BELOW AND INSTALL THROUGH-BOLT WITH RECESSED SQUARE STEEL PLATE AND NUT FLUSH WITH TOP OF SLAB.

### INTERFACE WITH OTHER PRODUCTS

- INSTALL INSERTS FOR PLACEMENT IN CONCRETE FORMS.
- INSTALL INSERTS FOR SUSPENDING HANGERS FROM REINFORCED CONCRETE SLABS AND SIDES OF REINFORCED CONCRETE BEAMS.
- INSTALL HOOKED ROD TO CONCRETE REINFORCEMENT SECTION FOR INSERTS CARRYING PIPE OVER 4 INCHES.
- WHERE CONCRETE SLABS FORM FINISHED CEILING, LOCATE INSERTS FLUSH WITH SLAB SURFACE.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.

### CLEANING

CLEAN ENTIRE SYSTEM AFTER OTHER CONSTRUCTION IS COMPLETE.

## SEISMIC NOTES

### SEISMIC RESTRAINT OF PIPING

THE FIRE PROTECTION SYSTEM SHALL BE CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH IBC 163 AND LOCAL AMENDMENTS. PROVIDE RESTRAINTS ON DUCTWORK, PIPING AND EQUIPMENT. SEE SPECIFICATIONS FOR SEISMIC DESIGN.

CODE ENFORCEMENT SHALL RECEIVE CALCULATIONS AND LOCATION OF SEISMIC DEVICES PRIOR TO FIRST INSPECTION.

- BRACE ALL PIPES 2 1/2" INSIDE DIAMETER AND LARGER. EXCEPTIONS ARE AS FOLLOWS: NO BRACING IS REQUIRED IF THE TOP OF THE PIPE IS SUSPENDED 12" OR LESS FROM THE SUPPORTING STRUCTURAL MEMBER.
- TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 40 FT. INTERVALS MAX. LONGITUDINAL BRACING SHALL OCCUR AT 80 FT INTERVALS MAX. WALLS, INCLUDING DRYWALL PARTITIONS, MAY REPLACE REQUIRED TRANSVERSE OR VERTICAL BRACING FOR PIPING.
- DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
- SWAY BRACING SHALL BE DESIGNED AND INSTALLED PER NFPA-13 AND FM GLOBAL. SUBMIT BRACING DETAILS AND SPACING FOR REVIEW.
- WHERE PIPES PASS THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS OR FLOORS, THE HOLE SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLE IS 2" LARGER THAN THE PIPE FOR 1" NOMINAL TO 3 1/2" NOMINAL AND 4" LARGER THAN THE PIPE 4" NOMINAL AND LARGER. WHERE REQUIRED, THE CLEARANCE SHALL BE FILLED WITH A FLEXIBLE MATERIAL SUCH AS MASTIC.

## SPRINKLERS

### FINISHED CEILINGS

- TYPE: CONCEALED SPRINKLER HEAD WITH COVER MATCHING CEILINGS SPECIFIED BY ARCHITECT.
- FINISH: AS SELECTED BY ARCHITECT.
- ESCUTCHEON PLATE FINISH: AS SELECTED BY ARCHITECT.
- FUSIBLE LINK: GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.

### EXPOSED AREA TYPE

- TYPE: STANDARD UPRIGHT TYPE.
- FINISH: BRASS PLATED.
- FUSIBLE LINK: GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.

### INSTALLATION

- INSTALL IN ACCORDANCE WITH NFPA 13.
- PLACE PIPE RUNS TO MINIMIZE OBSTRUCTION TO OTHER WORK.
- INSTALL PIPING IN CONCEALED SPACES ABOVE FINISHED CEILINGS.
- CENTER SPRINKLERS IN TWO DIRECTIONS IN CEILING TILE (UNLESS NOTED OTHERWISE OR NOT POSSIBLE DUE TO SPACING) AND INSTALL PIPING OFFSETS. HYDROSTATICALLY TEST ENTIRE SYSTEM.
- REQUIRE TEST BE WITNESSED BY AUTHORITY HAVING JURISDICTION.
- APPLY MASKING TAPE OR PAPER COVER TO PROTECT CONCEALED SPRINKLERS, COVER PLATES, AND SPRINKLER ESCUTCHEONS NOT RECEIVING FIELD PAINT FINISH. REMOVE AFTER PAINTING. REPLACE PAINTED SPRINKLERS WITH NEW.

## VALVES

### GATE VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE BODY AND TRIM, RISING STEM, HAND WHEEL, SOLID WEDGE OR DISC, THREADED ENDS.
- OVER 2 INCHES: IRON BODY, BRONZE TRIM, RISING STEM PRE-GROOVED FOR MOUNTING TAMPER SWITCH, HAND WHEEL, OS&Y, SOLID RUBBER COVERED BRONZE OR CAST IRON WEDGE, FLANGED OR GROOVED ENDS.
- OVER 4 INCHES: IRON BODY, BRONZE TRIM, RISING STEM WITH BOLTED BONNET, SOLID BRONZE WEDGE, FLANGED ENDS, IRON BODY INDICATOR POST ASSEMBLY.

### GLOBE VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE BODY, BRONZE TRIM, RISING STEM AND HAND WHEEL, INSIDE SCREW, RENEWABLE RUBBER DISC, THREADED ENDS, WITH BACK SEATING CAPACITY PACKABLE UNDER PRESSURE.
- OVER 2 INCHES: IRON BODY, BRONZE TRIM, RISING STEM, HAND WHEEL, OS&Y, PLUG-TYPE DISC, FLANGED ENDS, RENEWABLE SEAT AND DISC.

### BALL VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE TWO PIECE BODY, BRASS, CHROME PLATED BRONZE, OR STAINLESS STEEL BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE AND THREADED ENDS WITH UNION.
- OVER 2 INCHES: MANUFACTURERS: CAST STEEL BODY, CHROME PLATED STEEL BALL, TEFLON SEAT AND STUFFING BOX SEALS, AND LEVER HANDLE.

### CHECK VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE BODY AND SWING DISC, RUBBER SEAT, THREADED ENDS.
- OVER 2 INCHES: IRON BODY, BRONZE TRIM, SWING CHECK WITH RUBBER DISC, RENEWABLE DISC AND SEAT, FLANGED ENDS WITH AUTOMATIC BALL CHECK.
- 4 INCHES AND OVER: IRON BODY, BRONZE DISC WITH STAINLESS STEEL SPRING, RESILIENT SEAL, THREADED, WAFER, OR FLANGED ENDS.

### DRAIN VALVES

- COMPRESSION STOP: BRONZE WITH HOSE THREAD NIPPLE AND CAP.
- BALL VALVE: BRASS WITH CAP AND CHAIN, 3/4 INCH HOSE THREAD.

## GENERAL NOTES

- THIS DOES NOT REPRESENT A FIRE PROTECTION SHOP DRAWING DESIGN. THIS DOCUMENT IS TO SHOW DESIGN INTENT. FINAL HYDRAULIC CALCULATIONS, HEAD LAYOUTS, AND PIPE SIZES, COMPLYING WITH ALL CODES, FOR A COMPLETE AND OPERATIONAL SYSTEM ARE TO BE SUPPLIED BY THE FIRE PROTECTION CONTRACTOR.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE FINAL DESIGN FOR THE FIRE SPRINKLER SYSTEM AND SHALL PROVIDE THE ARCHITECT/ENGINEER AND THE AUTHORITIES HAVING JURISDICTION, SHOP DRAWINGS AND HYDRAULIC CALCULATIONS, IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, FOR REVIEW.
- THE FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA 13 AND ALL APPLICABLE REGULATORY REQUIREMENTS AND BUILDING CODES AS INTERPRETED BY THE AUTHORITIES HAVING JURISDICTION. WHERE CONFLICTS EXIST BETWEEN SUCH REGULATORY OR CODE REQUIREMENTS, SUCH CONFLICT SHALL BE IDENTIFIED FOR THE REVIEW OF THE ARCHITECT AND ENGINEER.
- COORDINATE WITH ARCHITECTURAL RCP, HVAC, ELECTRICAL, PLUMBING AND STRUCTURAL ELEMENTS AS REQUIRED FOR PROPER INSTALLATION OF SPRINKLER SYSTEM PIPING AND HEADS.
- PROVIDE FLEXIBLE COUPLINGS AT FLEXURE JOINTS PER NFPA 13 SECTION 9.3.2.1. PROVIDE CLEARANCE AROUND PIPING PASSING THROUGH FLOORS, WALL AND FOUNDATIONS WHERE REQUIRED PER NFPA 13 SECTION 9.3.4.
- ALL FIRE PROTECTION EQUIPMENT SHALL BE U.L. LISTED.
- ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS PER NFPA 13.
- PROVIDE SEISMIC RESTRAINT FOR PIPING WHERE REQUIRED BY IBC SECTION 1613.
- PROVIDE INSPECTOR TEST VALVES AT INSULATED, ACCESSIBLE LOCATIONS WITH DRAINS DISCHARGED TO THE EXTERIOR OF THE BUILDING. PROVIDE A BELL, ACTIVATED BY THE SPRINKLER SYSTEM, ON THE EXTERIOR OF THE BUILDING.
- COORDINATE JOINTS ON ALL HEADS TO CENTER HEADS IN CEILING GRID WHERE ONE IS PROVIDED (2 DIRECTIONS).
- HANG ALL ARMOVERS LONGER THAN 12" CC.
- ALL PIPING 2 IN. AND SMALLER TO BE SCH. 40 BLACK STEEL. ALL PIPING 2-1/2" AND LARGER TO BE SCH. 10 BLACK STEEL.
- ALL PIPE PENETRATIONS THROUGH THE STRUCTURE TO BE CORE DRILLED. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH THE STRUCTURE.
- ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIRE PROOFING TO MAINTAIN THE INTEGRITY OF THE WALL. PROVIDE AN OS&Y VALVE WITH TAMPER SWITCH AND A WATER FLOW SWITCH FOR EACH SPRINKLER ZONE.
- ALL CONTROL VALVES TO BE EQUIPPED WITH A TAMPER SWITCH. SPRINKLER PIPING SHOWN ABOVE FLOOR OR GRADE SHALL BE INSTALLED ABOVE CEILING WHERE CEILINGS ARE PROVIDED. COORDINATE ROUTING WITH OTHER TRADES.
- PROVIDE BRASS TAGS ON ALL VALVES.
- INSTALL CHROME, METAL SPLIT TYPE PIPE ESCUTCHEON AT EXPOSED WALL PENETRATIONS.
- ALL SYSTEM GAUGES AND VALVES SHALL BE ACCESSIBLE FOR MAINTENANCE AND INSPECTION.
- ALL FITTINGS TO BE CLASS 250 SLIP ON MECHANICAL JOINT TYPE.
- INSTALLATION AND TESTING PER NFPA 24.
- PIPE TO HAVE A MINIMUM 3'-0" BURY FROM TOP OF PIPE.
- ALL PIPING TO BE PROPERLY BLOCKED, RODDED, OR CLAMPED.
- ALL RODDING PER NFPA 24.
- BITUMINOUS COAT ALL UNDERGROUND BOLTS, RODS, AND CONNECTORS.
- FLUSH ALL UNDERGROUND PIPING PER NFPA.
- SPRINKLER HEADS WITHIN 36" OF SUPPLY GRILLES IN ANY DIRECTION SHALL HAVE INTERMEDIATE CLASSIFICATION PER NFPA 13 TABLE 3-2.5.1.

## GUARANTEE

### GUARANTEE

MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

FOR THE SAME PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

## FIRE PROTECTION LEGEND

"NOT ALL SYMBOLS MAY BE USED"

SYMBOL	ABB.	DESCRIPTION
	DPSS	DRY PIPE SPRINKLER SYSTEM
	F	FIRE MAIN
	ID	PIPE TURN DOWN
	ID	PIPE TURN UP
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		CAP/PLUG
		UNION
	I.E.	INVERT ELEVATION
	AFF	ABOVE FINISHED FLOOR
	DCVA	DOUBLE CHECK VALVE ASSEMBLY
	DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
		FIRE RISER NO.
		RISER SIZE
		CEILING SPRINKLER - UPRIGHT
		CEILING SPRINKLER - CONCEALED
		CEILING SPRINKLER - RECESSED PENDANT
		SIDEWALL SPRINKLER
		SIDEWALL EXTENDED COVERAGE SPRINKLER
		SIDEWALL SPRINKLER, NON-FREEZE
		WALL HUNG FIRE EXTINGUISHER
		FIRE EXTINGUISHER CABINET
	FDC	FIRE DEPARTMENT CONNECTION
	PIV	POST INDICATOR VALVE
	TB	THRUST BLOCK
	FH	FIRE HYDRANT
		SPRINKLER RISER
		NEW UNDERGROUND PIPE
		EXISTING UNDERGROUND PIPE
	TS	TAMPER SWITCH
	FS	FLOW SWITCH

## FIRE PROTECTION SHEET INDEX

NUMBER	SHEET NAME
FP0.1	GENERAL NOTES, SCHEDULES, AND LEGEND
FP1.1	SITE PLAN - FIRE PROTECTION
FP2.1	FLOOR PLAN - FIRE PROTECTION
FP3.1	DETAILS - FIRE PROTECTION

## DOUBLE CHECK VALVE ASSEMBLY SCHEDULE

MARK	MANUF.	MODEL.	SIZE	MOUNTING	REMARKS
DCVA-1	WATTS	C200	4"	VERTICAL	SEE NOTES.

NOTES:  
DRAIN PIPED FULL SIZE TO FLOOR DRAIN.

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

DATE: 03-01-2024

DRAWN BY: ETC

DESIGNER: ETC

CHECKED BY: GW

SEAL:



**WILBANKS**  
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GENERAL NOTES, SCHEDULES, AND LEGEND

NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

SHEET NUMBER:

**FP0.1**

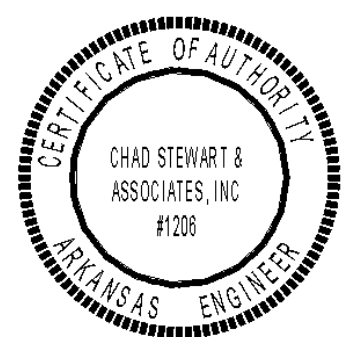
PROJECT:

WAA: 1314-33

**CSA** ENGINEERING

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PROJECT NO: 23617



DATE: 03-01-2024

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DESIGNER: ETC

CHECKED BY: GW

SEAL:



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**SITE PLAN - FIRE PROTECTION**  
NEW COMMUNITY BUILDING  
TRUMANN HOUSING AUTHORITY  
TRUMANN, ARKANSAS

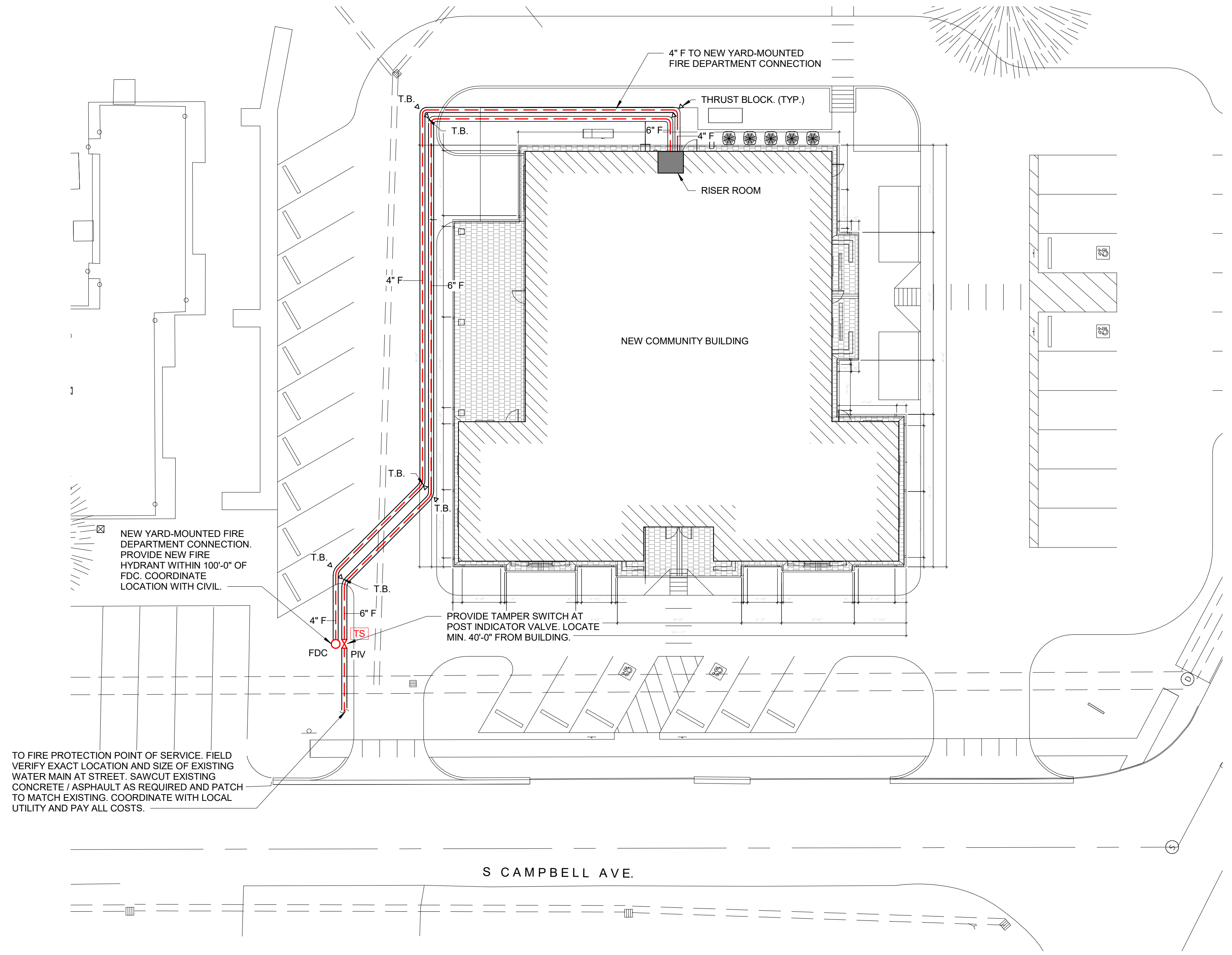
SHEET NUMBER:

**FP1.1**

PROJECT:

WAA: 1314-33

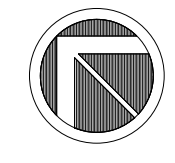
**NOTE:**  
THE CONTRACTOR SHALL PROVIDE FIRE FLOW TEST PRIOR TO CONSTRUCTION, COORDINATE WITH LOCAL UTILITY AND AHJ AS REQUIRED PER IFC, AND PAY ALL COSTS.



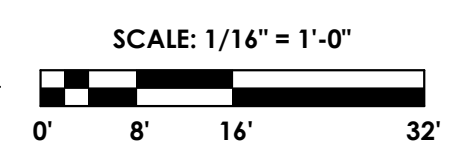
NEW YARD-MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE NEW FIRE HYDRANT WITHIN 100'-0\"/>

PROVIDE TAMPER SWITCH AT POST INDICATOR VALVE. LOCATE MIN. 40'-0\"/>

TO FIRE PROTECTION POINT OF SERVICE. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER MAIN AT STREET. SAWCUT EXISTING CONCRETE / ASPHALT AS REQUIRED AND PATCH TO MATCH EXISTING. COORDINATE WITH LOCAL UTILITY AND PAY ALL COSTS.



**1 SITE PLAN - FIRE PROTECTION**  
FP1.1 1/16\"/>



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ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



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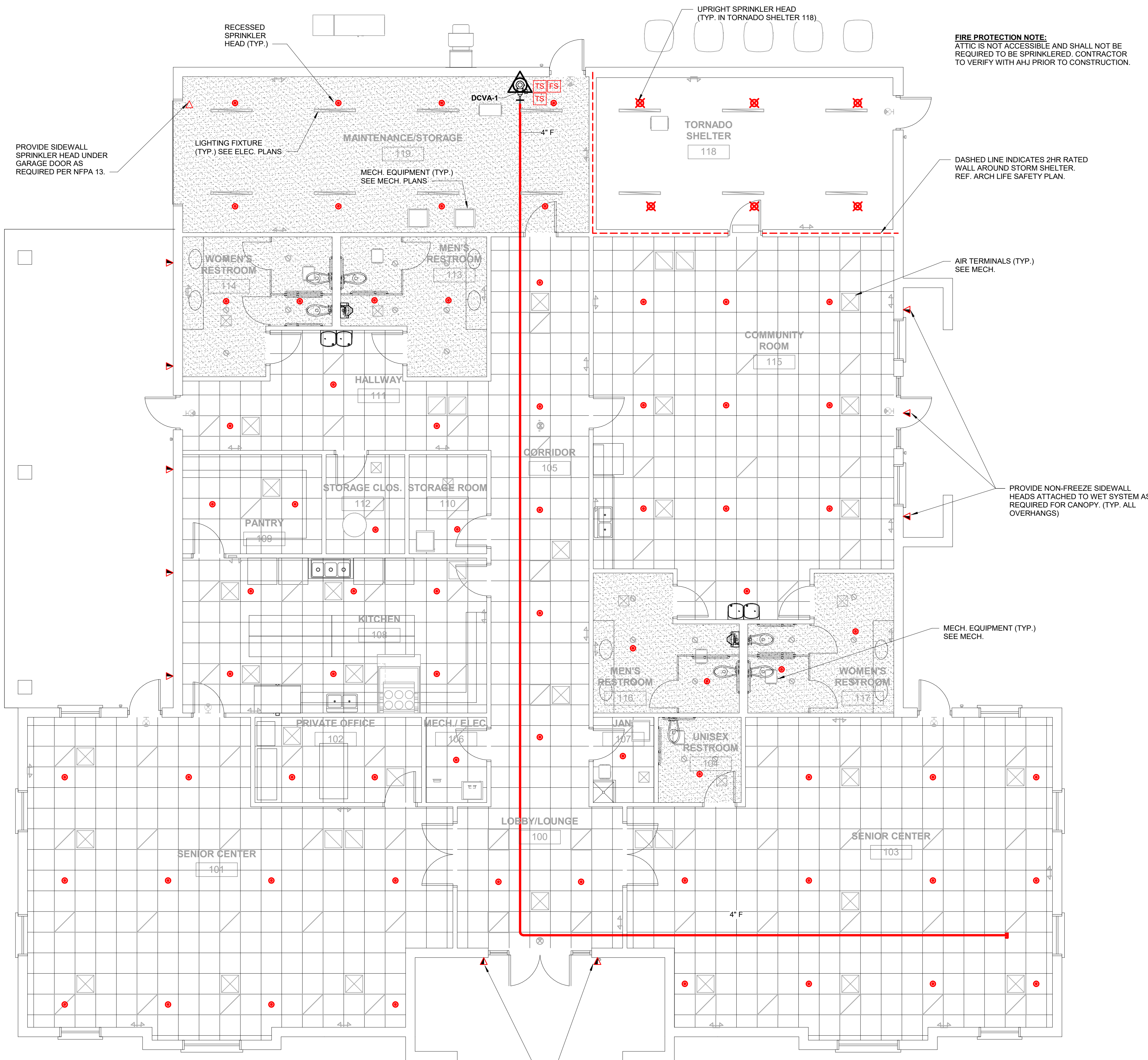
## FLOOR PLAN - FIRE PROTECTION NEW COMMUNITY BUILDING TRUMANN HOUSING AUTHORITY TRUMANN, ARKANSAS

SHEET NUMBER:

# FP2.1

PROJECT:

WAA: 1314-33



**FIRE PROTECTION NOTE:**  
ATTIC IS NOT ACCESSIBLE AND SHALL NOT BE REQUIRED TO BE SPRINKLERED. CONTRACTOR TO VERIFY WITH AHJ PRIOR TO CONSTRUCTION.

DASHED LINE INDICATES 2HR RATED WALL AROUND STORM SHELTER. REF. ARCH LIFE SAFETY PLAN.

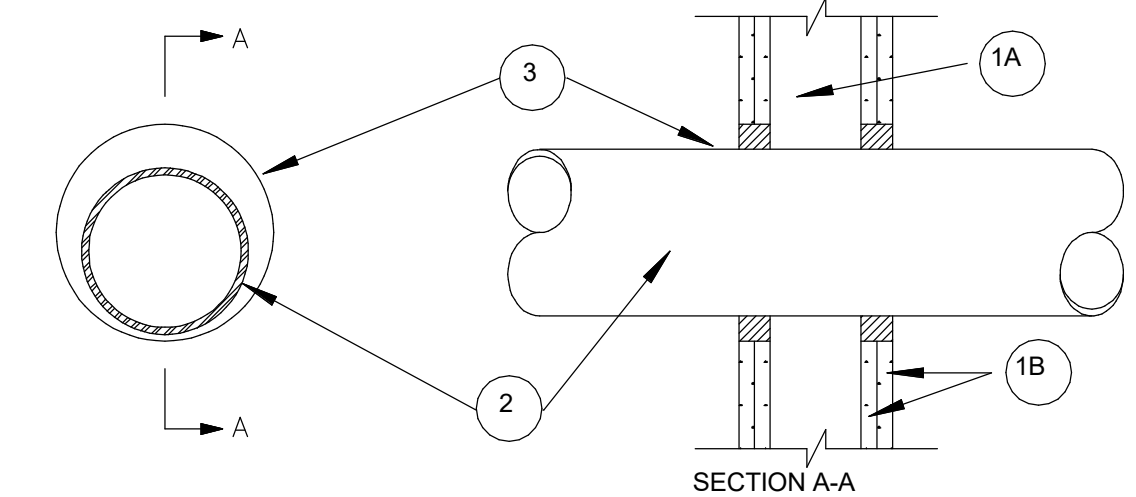
AIR TERMINALS (TYP.) SEE MECH.

PROVIDE NON-FREEZE SIDEWALL HEADS ATTACHED TO WET SYSTEM AS REQUIRED FOR CANOPY. (TYP. ALL OVERHANGS)

MECH. EQUIPMENT (TYP.) SEE MECH.

PROVIDE NON-FREEZE SIDEWALL HEADS ATTACHED TO WET SYSTEM AS REQUIRED FOR CANOPY. (TYP. ALL OVERHANGS)

SYSTEM NO. W-L-1054 DECEMBER 04, 2002  
F RATINGS - 1 AND 2 HR (SEE ITEMS 1 AND 3)  
T RATING - 0 HR  
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT  
L RATING AT 400 F - 4 CFM/SQ FT



1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAM OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
- B. GYPSUM BOARD\* - 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS.

THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREE FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

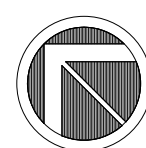
- A. STEEL PIPE - NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B. IRON PIPE - NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- C. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING OR 6 IN DIAM STEEL CONDUIT.
- D. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- E. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL\* - SEALANT - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OF CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.

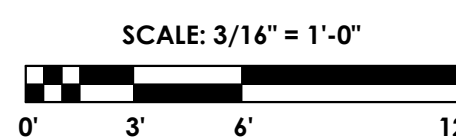
\*HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT

\*BEARING THE UL CLASSIFICATION MARK

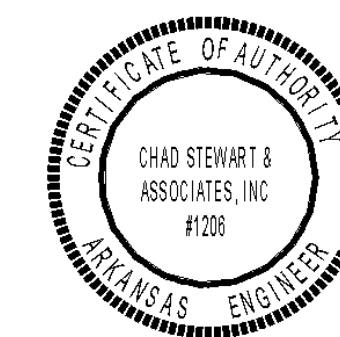
**2** METALLIC PIPE THROUGH RATED WALL  
FP2.1 NOT TO SCALE



**1** FLOOR PLAN - FIRE PROTECTION  
FP2.1 3/16" = 1'-0"



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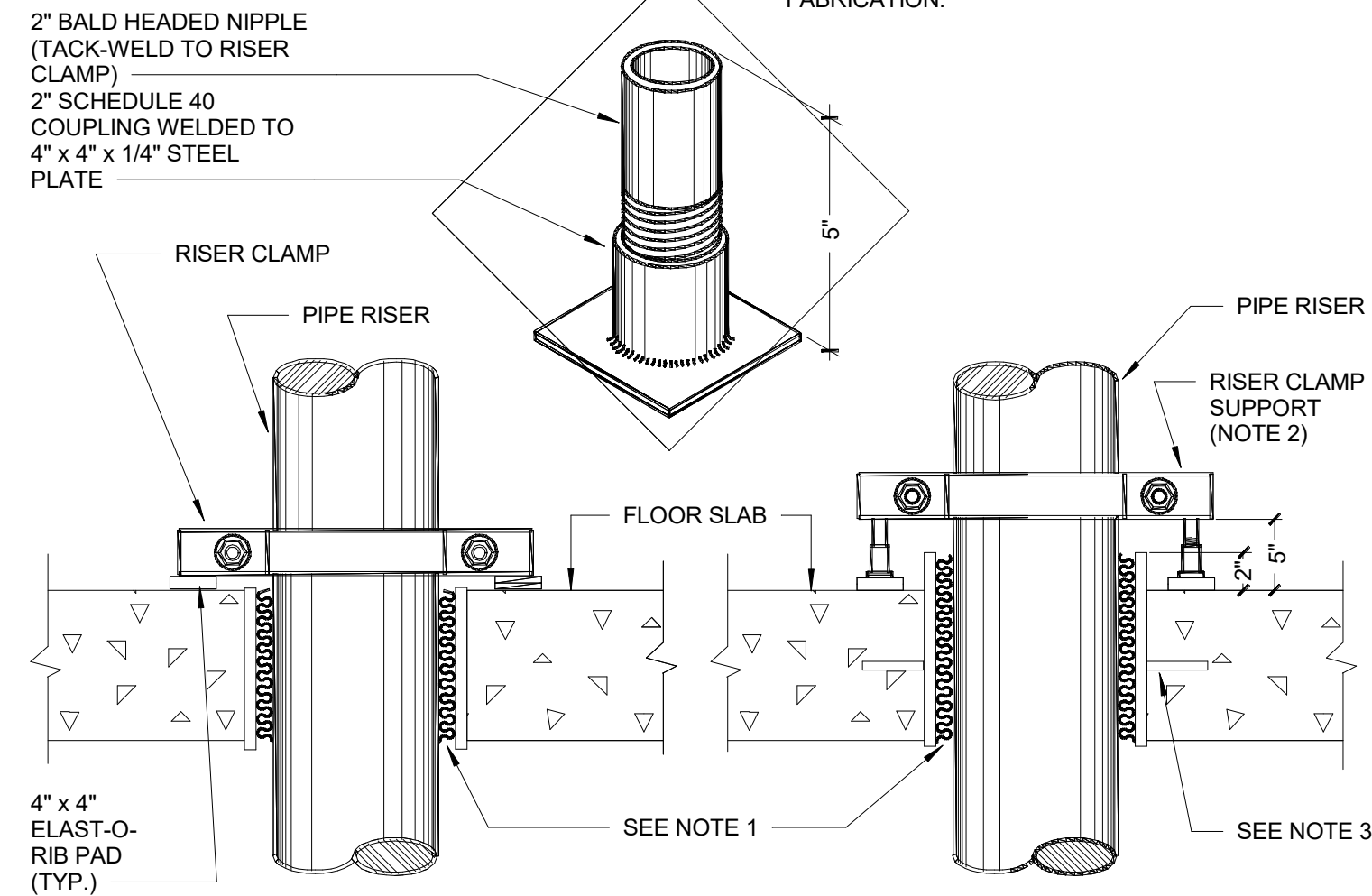
## DETAILS - FIRE PROTECTION

### NEW COMMUNITY BUILDING TRUMANN HOUSING AUTHORITY TRUMANN, ARKANSAS

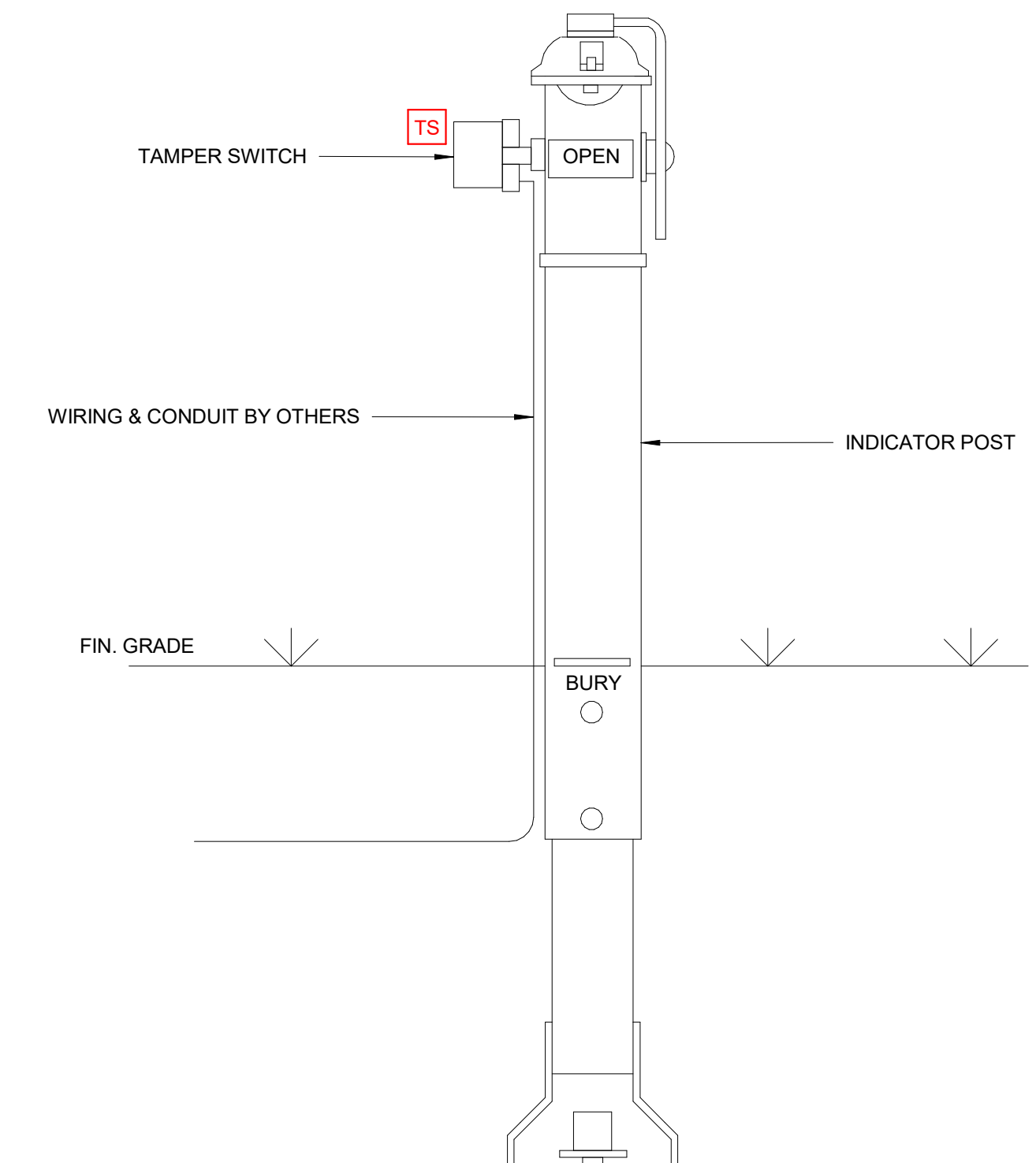
**RISER SIZE 5" PIPE & SMALLER**  
 3/4" BALD HEADED NIPPLE (TACK-WELDED TO RISER CLAMP)  
 3/4" SCHEDULE 40 COUPLING WELDED TO 2" x 2" x 1/8" STEEL PLATE

**RISER SIZE 6" PIPE & LARGER**  
 2" BALD HEADED NIPPLE (TACK-WELDED TO RISER CLAMP)  
 2" SCHEDULE 40 COUPLING WELDED TO 4" x 4" x 1/4" STEEL PLATE

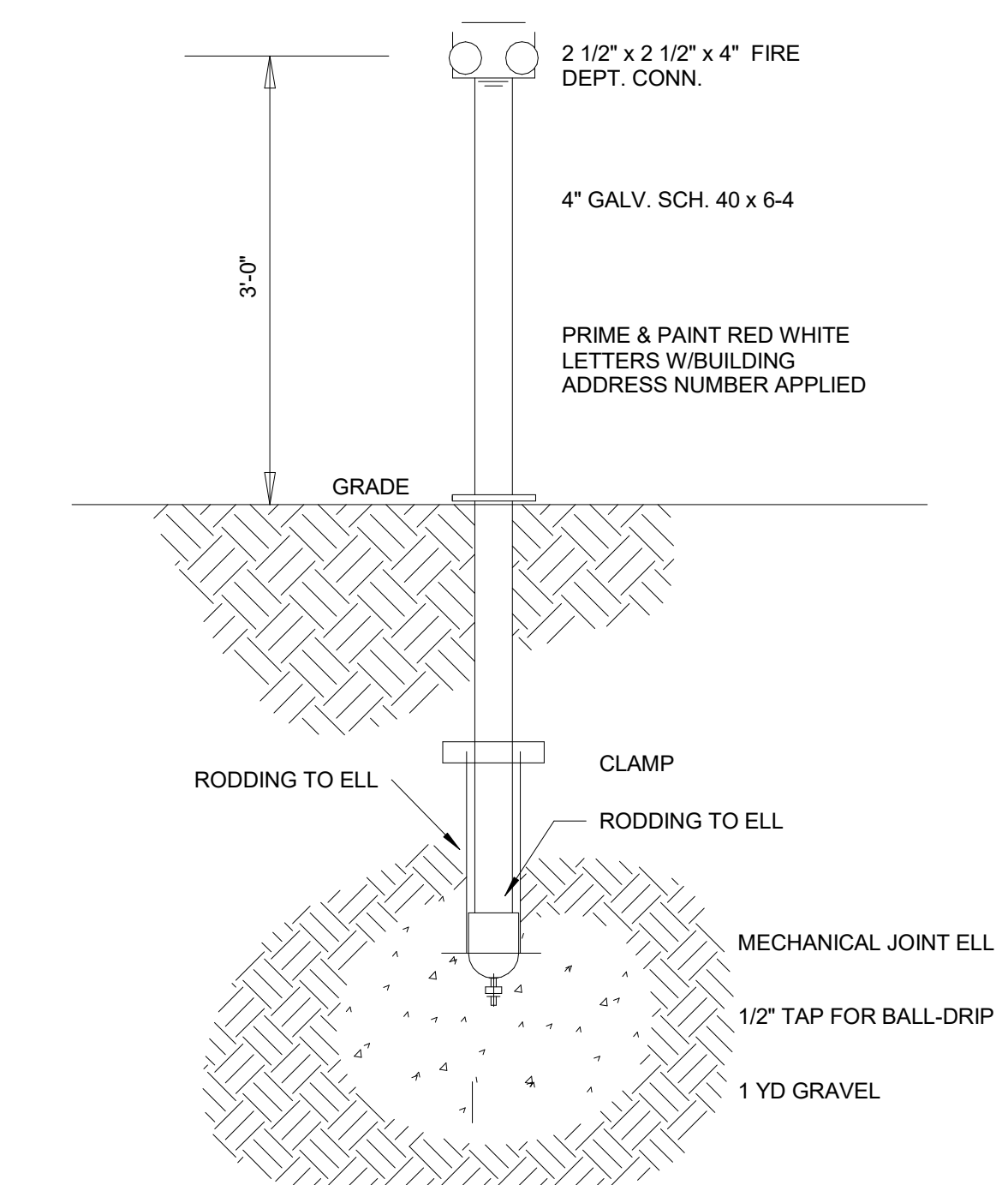
**NOTES:**  
 1. ALL FLOOR PENETRATIONS SHALL BE SEALED AND FIREPROOFED.  
 2. IN PUMP ROOMS, MECHANICAL ROOMS, PENTHOUSES, AND OTHER LOCATIONS WHERE WATER WOULD PERIODICALLY BE ON THE FLOOR, SLEEVES SHALL EXTEND 2" ABOVE THE FLOOR. RISER CLAMPS SHALL NOT REST ON SLEEVES.  
 3. FOR WATERPROOF INSTALLATIONS A FLANGE SHALL BE WELDED TO THE MIDPOINT OF THE SLEEVED AND THE ENTIRE ASSEMBLY GALVANIZED AFTER FABRICATION.



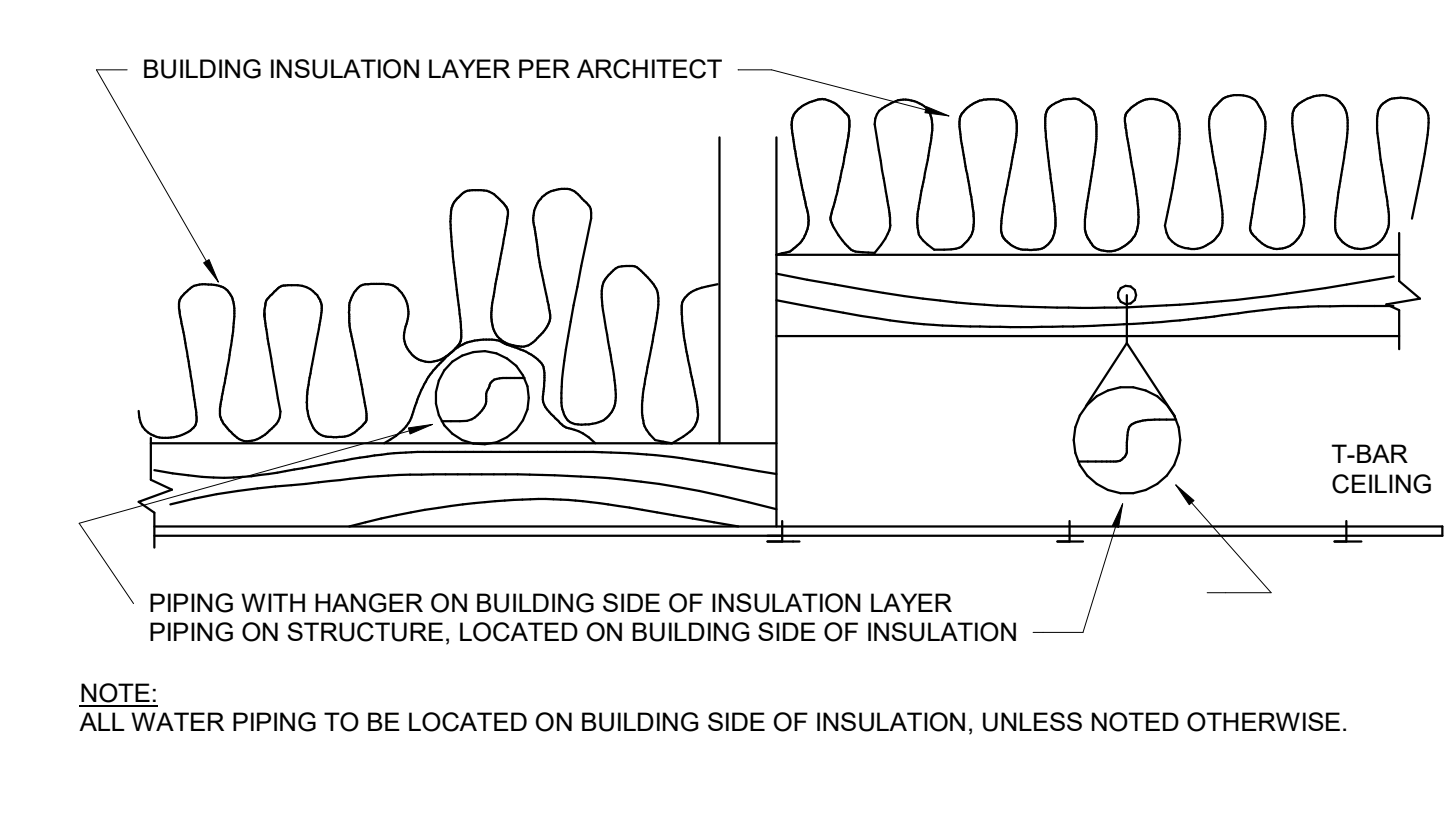
**1 RISER SUPPORT DETAIL**  
 FP3.1 NOT TO SCALE



**3 YARD MOUNTED FDC DETAIL**  
 FP3.1 NOT TO SCALE



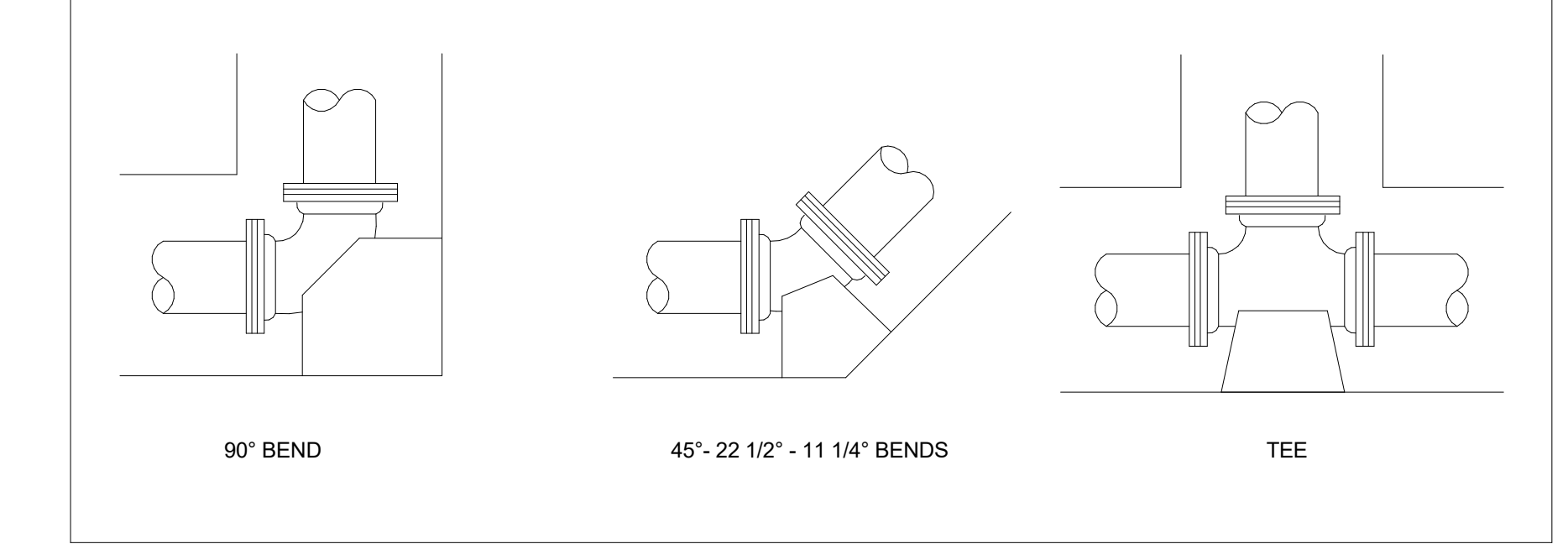
**4 INSTALLATION DETAIL FREEZE PROTECTION**  
 FP3.1 NOT TO SCALE



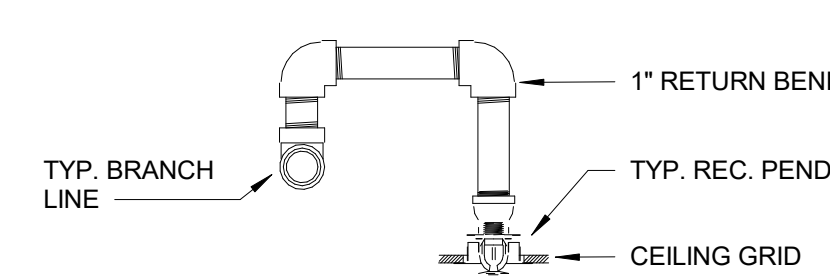
**5 INSTALLATION DETAIL FREEZE PROTECTION**  
 FP3.1 NOT TO SCALE

**AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS**

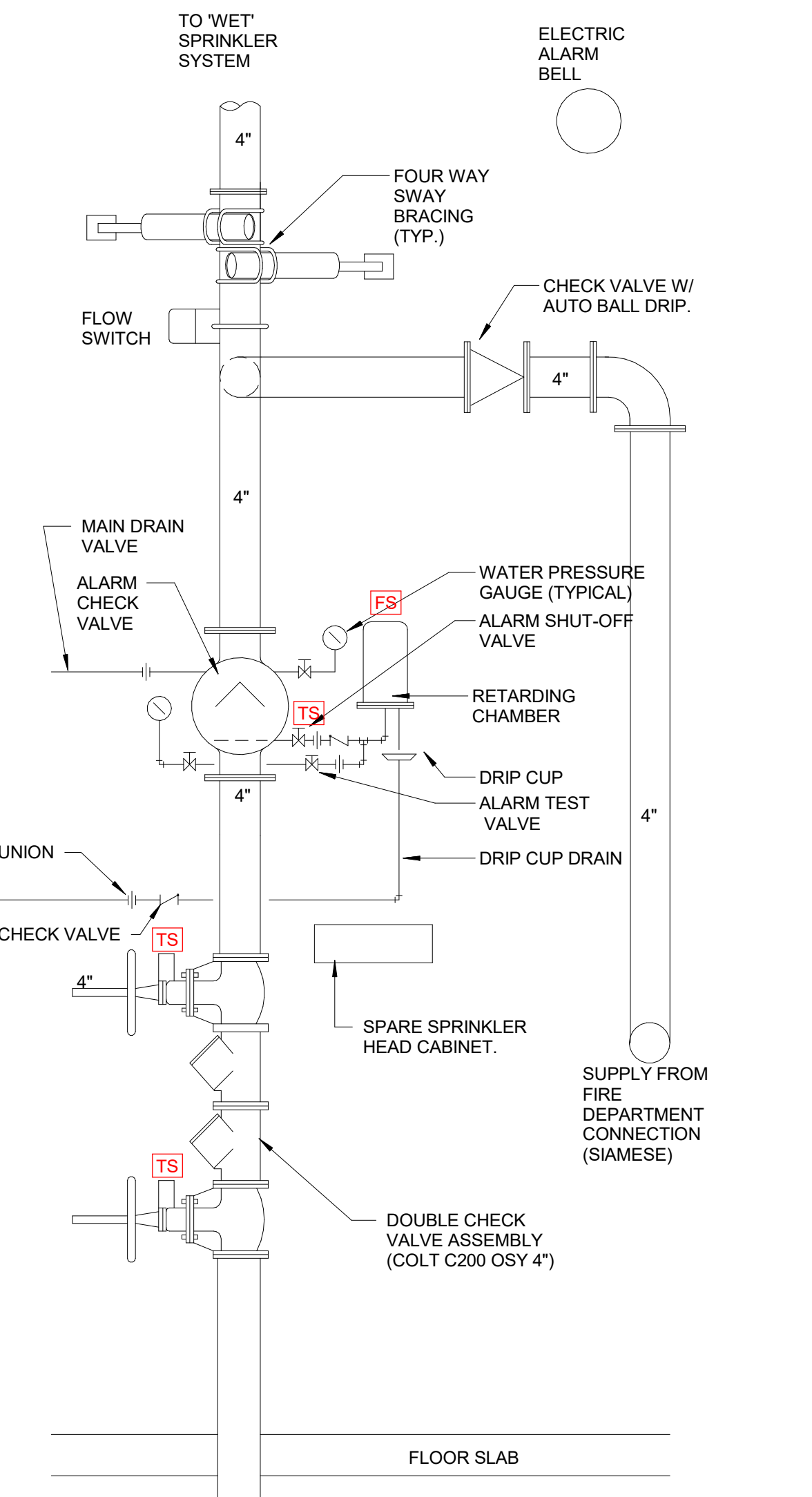
PIPE SIZE	90° BEND SQ. FT.	45°- 22 1/2° - 11 1/4° BEND SQ. FT.	TEE/HYD/CAP/PLUG SQ. FT.
4"	2	2	2
6"	5	3	4
8"	8	5	6
10"	13	7	9
12"	18	10	13



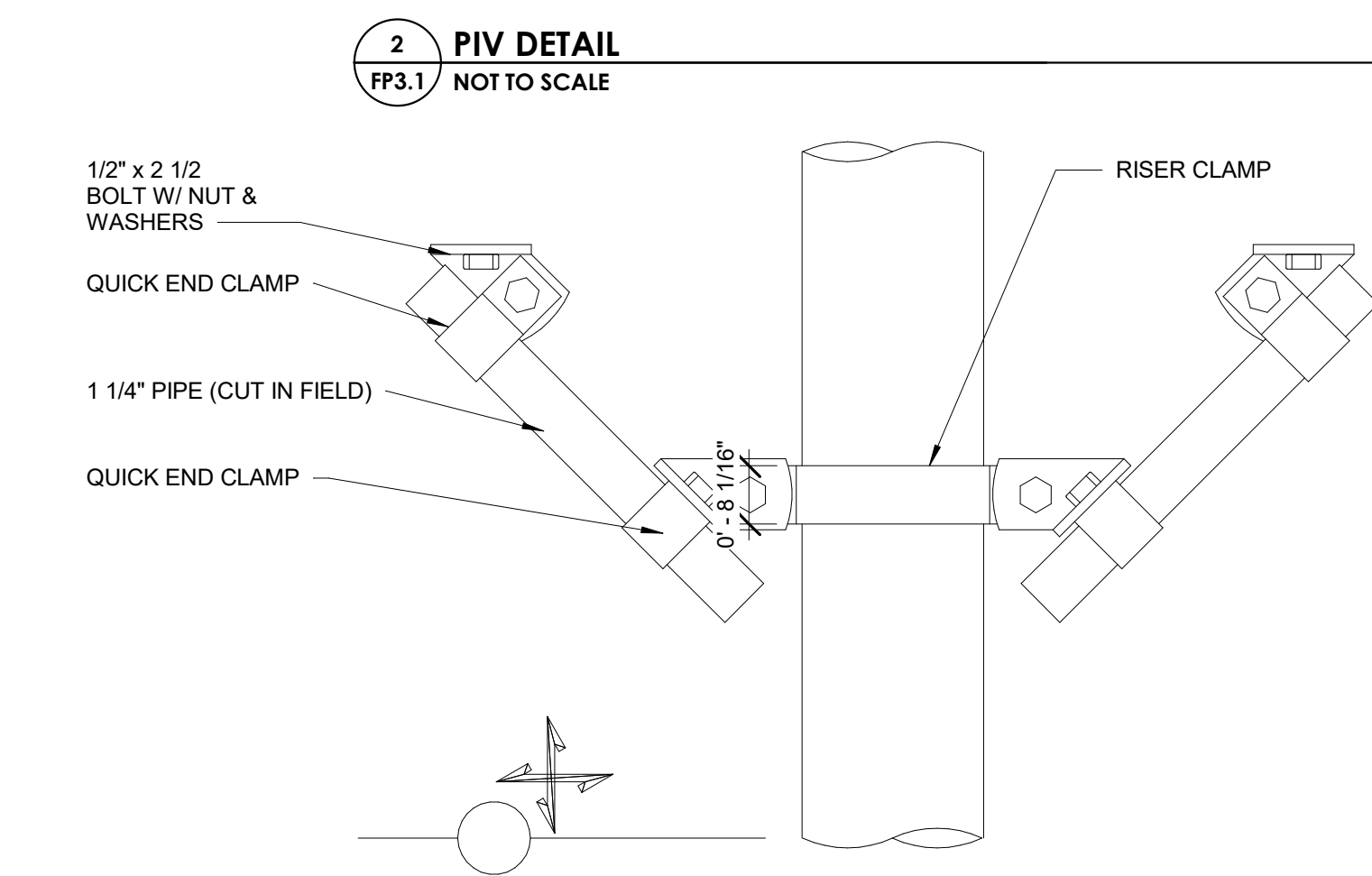
**7 THRUST BLOCK DETAIL**  
 FP3.1 NOT TO SCALE



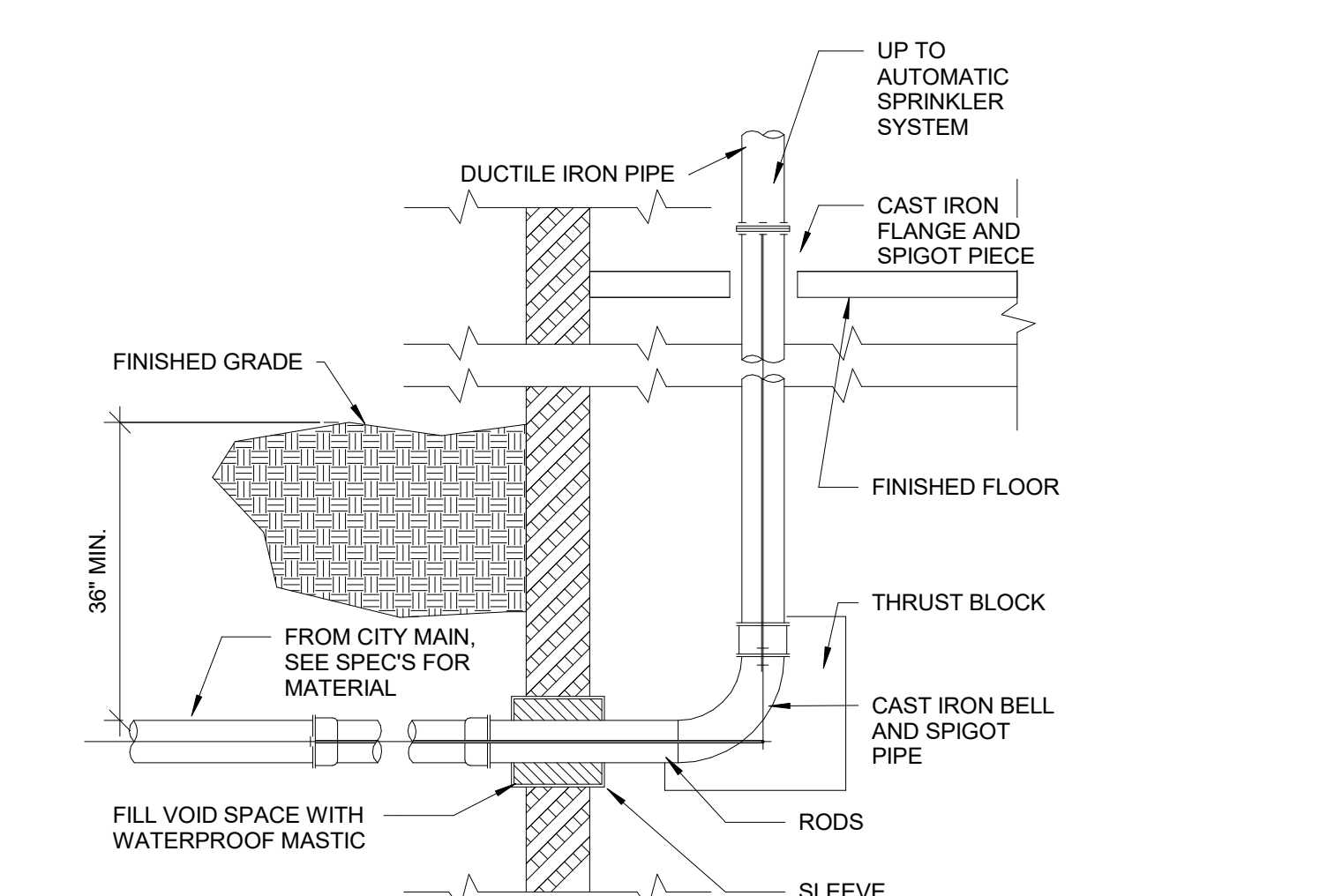
**8 RETURN BEND DETAIL**  
 FP3.1 NOT TO SCALE



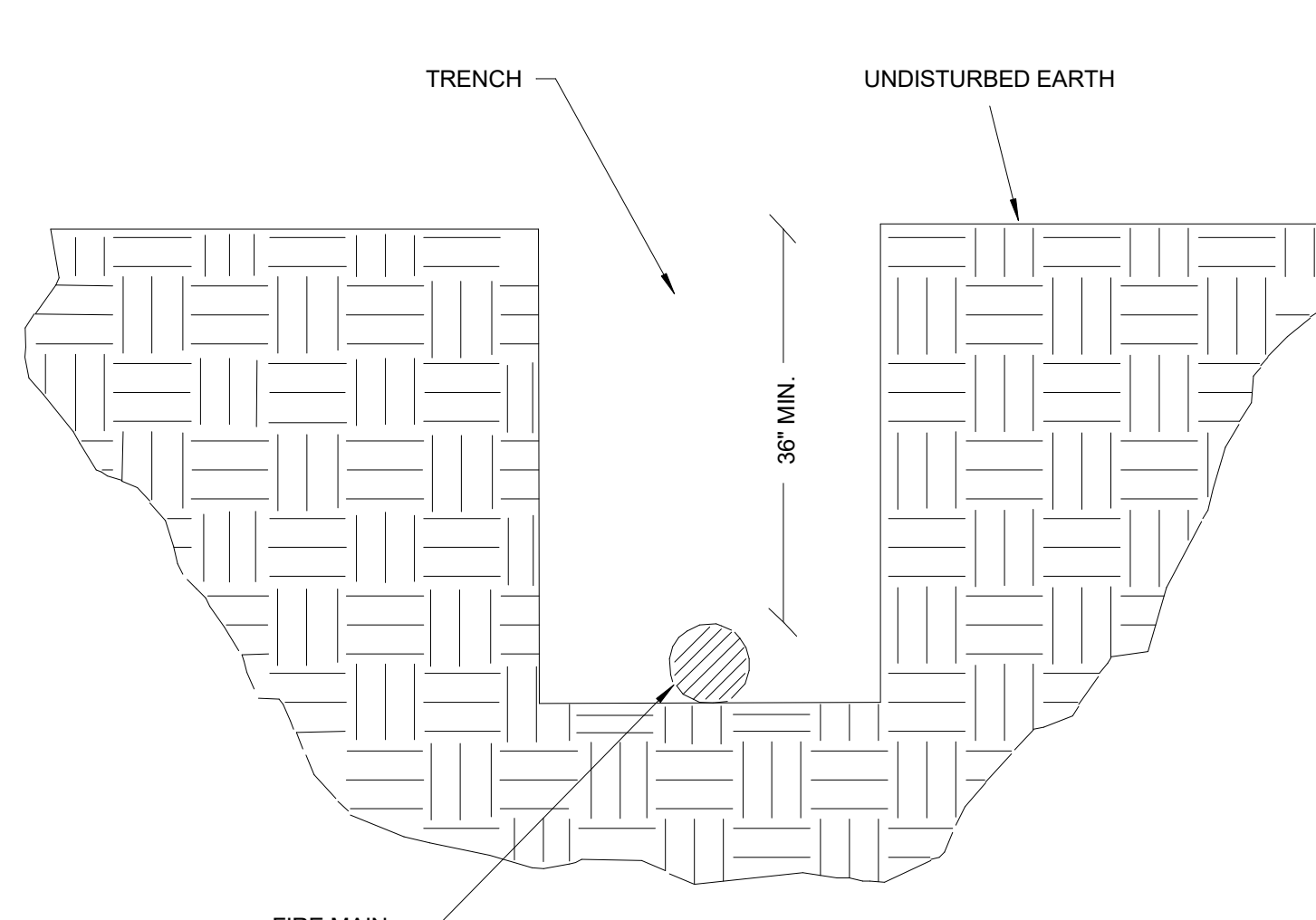
**5 FIRE RISER DETAIL**  
 FP3.1 NOT TO SCALE



**6 4-WAY SWAY BRACE DETAIL**  
 FP3.1 NOT TO SCALE



**9 FIRE LINE LEAD-IN DETAIL**  
 FP3.1 NOT TO SCALE

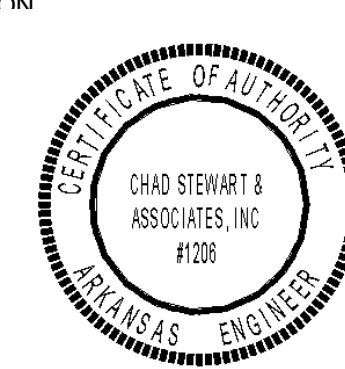
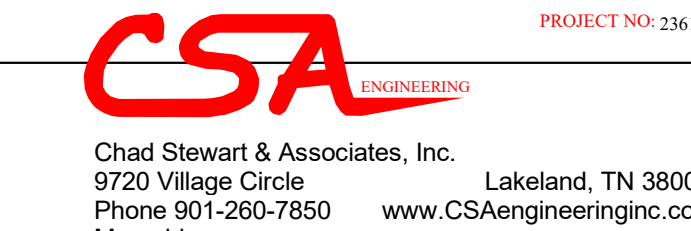


**10 UNDERGROUND TRENCH PIPING DETAIL**  
 FP3.1 NOT TO SCALE

**UNDERGROUND GENERAL NOTES:**  
 INSTALLATION & TESTING PER NFPA-24.  
 PIPE: UL LISTED PVC - DR-14  
 FITTINGS: CI MECH. JOINT, CL 250  
 RODDING PER NFPA-24  
 PIPE BURY: 3'-6"

CHLORINATE ALL NEW UNDERGROUND PIPING PER CODE.

- WORK TO BE INCLUDED:**
- EXCAVATION OF UNFORSEEN OBSTRUCTIONS, OR REPAIRS THERE TO
  - REMOVAL OR PATCHING OF CONCRETE OR PAVING.
  - WATER TAP & CONNECTION FEES.
  - VALVE PIT & EQUIPMENT.
  - FLOOR BLOCKOUT TO ALLOW SPIGOT INSTALLATION.
  - UNDERGROUND PIPE FROM TAP TO PROP. LINE.
  - TAMPING AND COMPACTION. FILL OTHER THAN EXCAVATED SPOIL.



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE