

CONSTRUCTION PLANS FOR:

# GLENDALE FIRE STATION

PREPARED FOR:

## BOARD OF COUNTY COMMISSIONERS WALTON COUNTY, FLORIDA

PROJECT NUMBER - 50150622

JANUARY 2024



877 CR 393 North  
Santa Rosa Beach, FL 32459  
850.267.0759

GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

GOVERNING STANDARD PLANS:  
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR ROAD  
AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IR'S)

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IR'S ARE AVAILABLE AT  
THE FOLLOWING WEBSITE: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD  
AND BRIDGE CONSTRUCTION, JANUARY 2021

CONSTRUCTION SEQUENCE								
	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8
STATE/FEDERAL PERMITS APPROVED	█							
INSTALL INITIAL STAGE EROSION CONTROL MEASURES	█							
DEMOLITION / CLEARING AND GRUBBING	█							
CONSTRUCT STORM SEWER				█				
CONSTRUCT UTILITIES				█				
SITE CONSTRUCTION				█				
BUILDING CONSTRUCTION				█				
ESTABLISH PERMANENT LANDSCAPING						█		
PERMANENT VEGETATION IS ESTABLISHED							█	
AS-BUILT CERTIFICATION								█

SEAL

RUDOLPH A. MALL P.E. 94479  
EB 0008794

FOR BID

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE

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CHECKED BY \_\_\_\_\_ RAM

DATE \_\_\_\_\_ JANUARY 2024

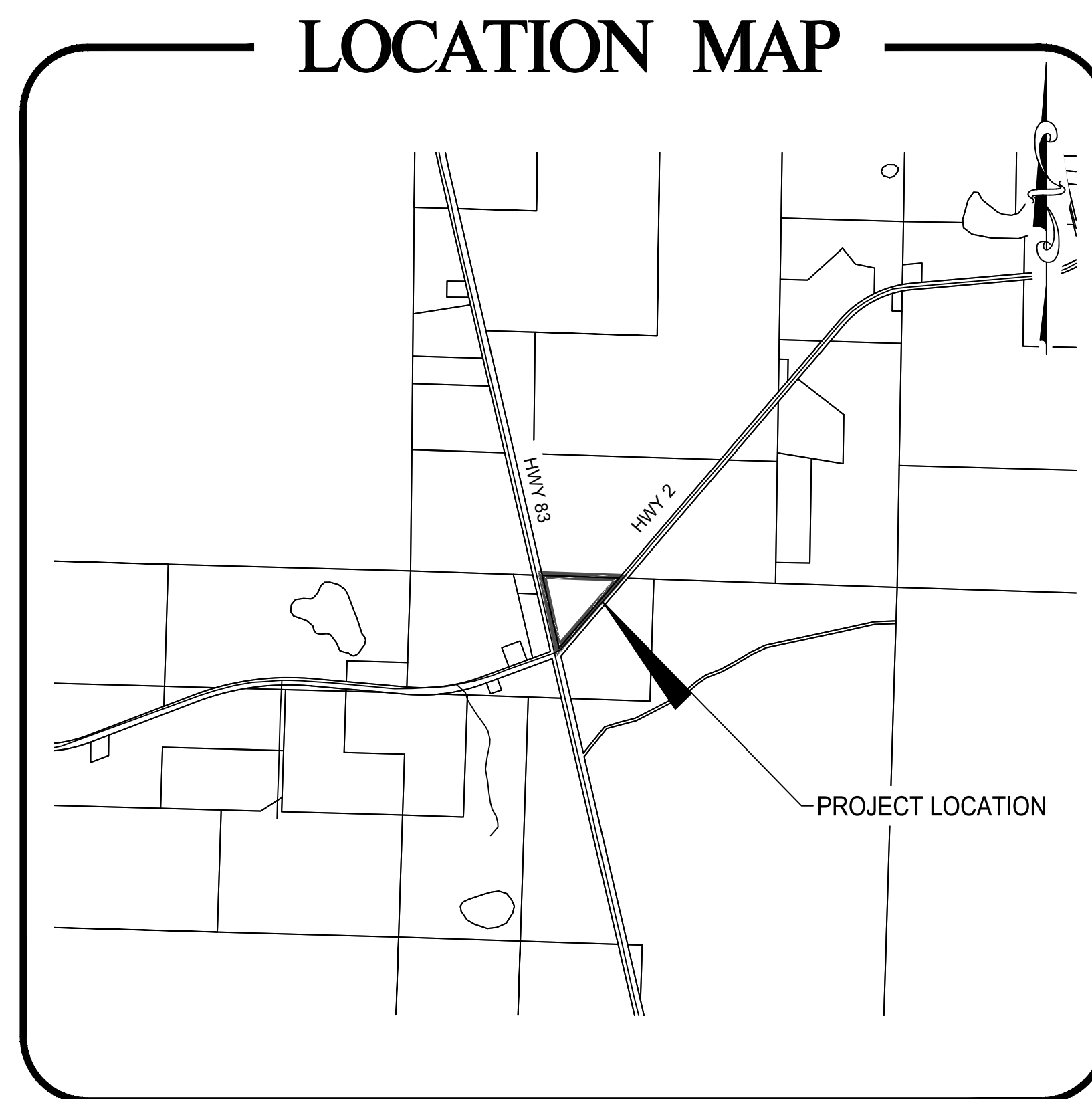
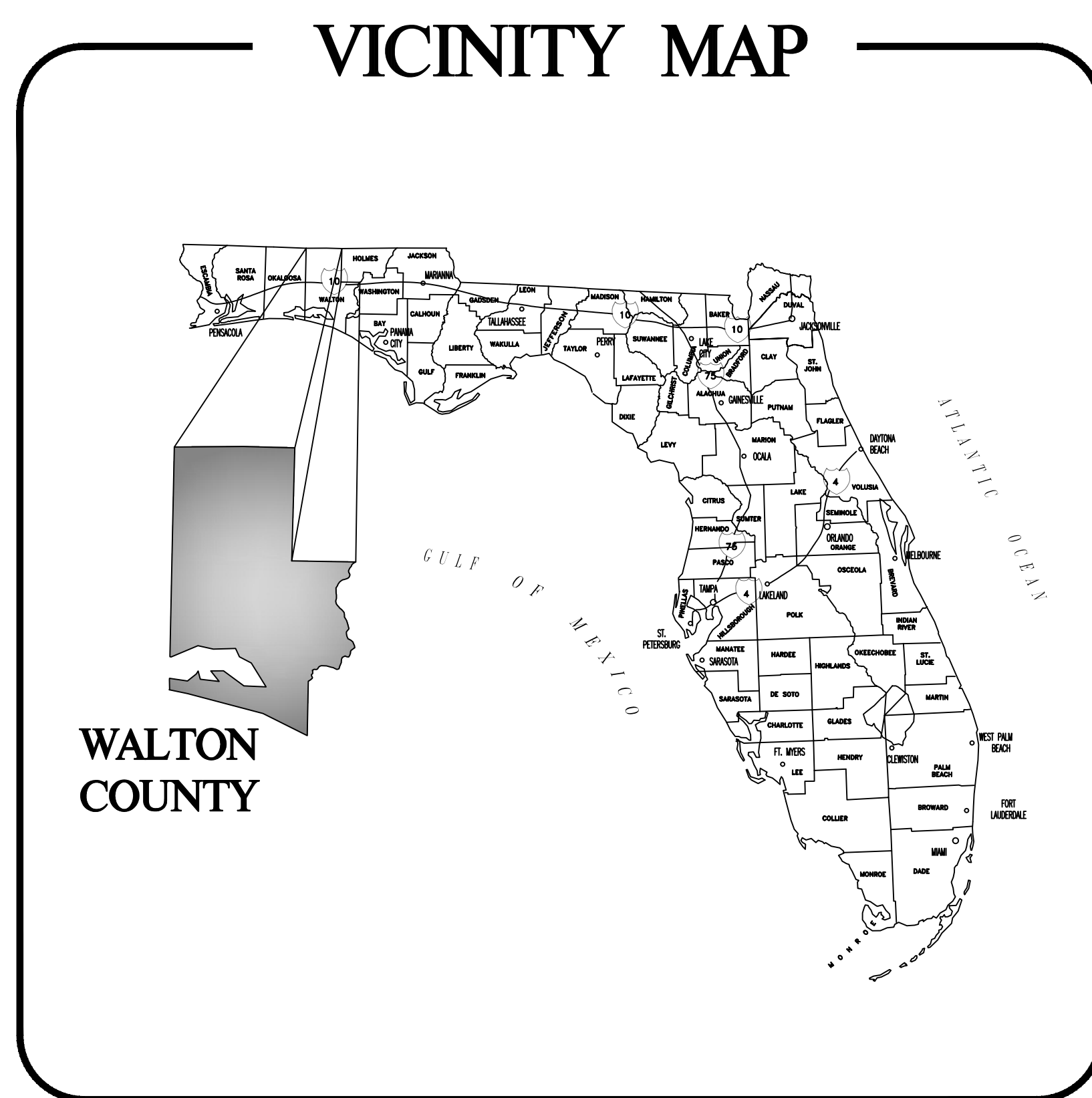
TITLE

COVER SHEET

PROJECT NO. 50150622

# CVR

SHEET NO.

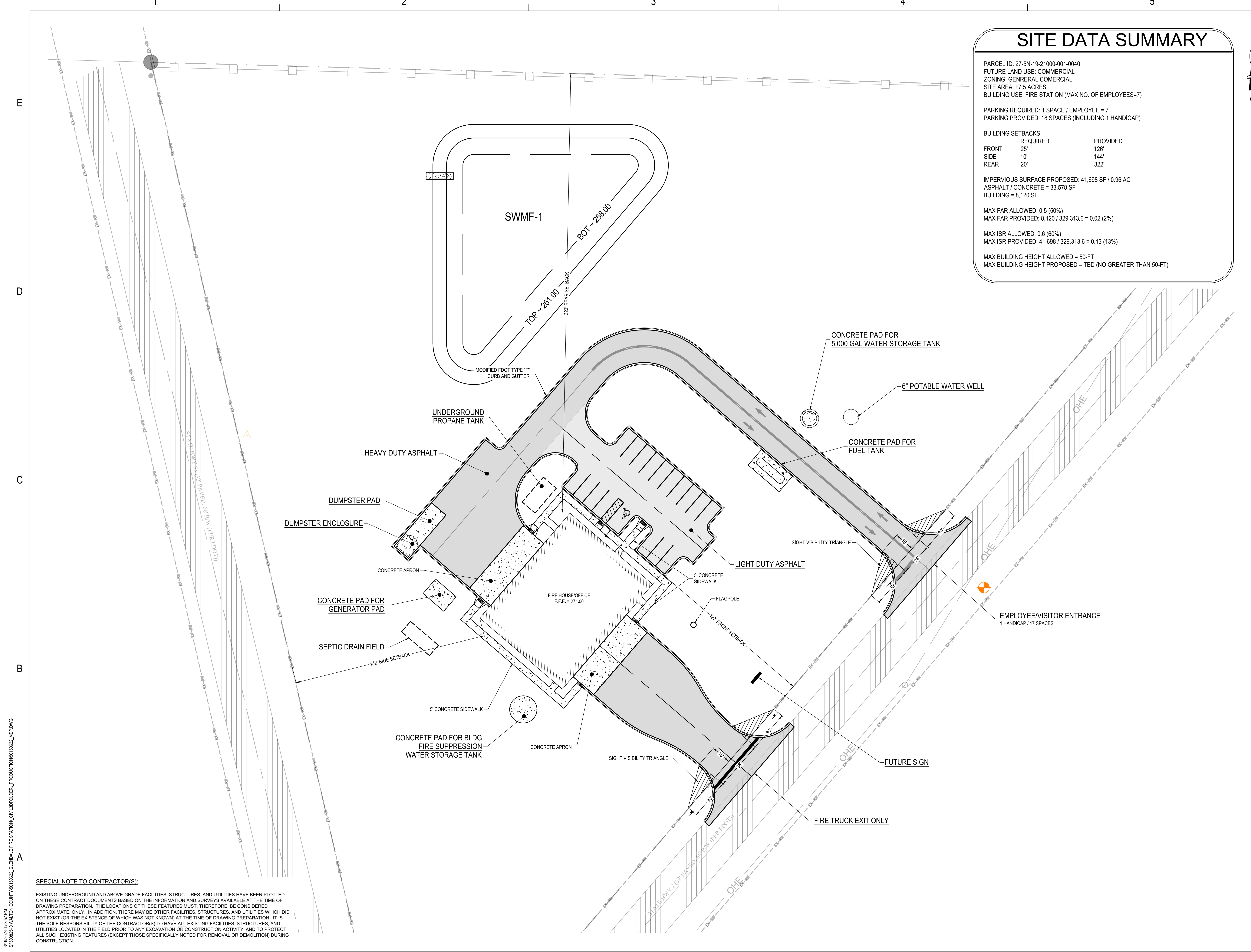


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C2.1	MASTER DEVELOPMENT PLAN
C3.1	EXISTING CONDITIONS
C3.2	EROSION CONTROL
C3.3	STORMWATER POLLUTION PREVENTION AND PROTECTION PLAN
C4.1	SITE LAYOUT PLAN
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C5.1	UTILITY PLAN
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A1.7	GENERAL NOTES
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## SITE DATA SUMMARY

PARCEL ID: 27-5N-19-21000-001-0040  
 FUTURE LAND USE: COMMERCIAL  
 ZONING: GENERAL COMMERCIAL  
 SITE AREA: ±7.5 ACRES  
 BUILDING USE: FIRE STATION (MAX NO. OF EMPLOYEES=7)

PARKING REQUIRED: 1 SPACE / EMPLOYEE = 7  
 PARKING PROVIDED: 18 SPACES (INCLUDING 1 HANDICAP)

BUILDING SETBACKS:	
REQUIRED	PROVIDED
FRONT 25'	126'
SIDE 10'	144'
REAR 20'	322'

IMPERVIOUS SURFACE PROPOSED: 41,698 SF / 0.96 AC  
 ASPHALT / CONCRETE = 33,578 SF  
 BUILDING = 8,120 SF

MAX FAR ALLOWED: 0.5 (50%)  
 MAX FAR PROVIDED: 8,120 / 329,313.6 = 0.02 (2%)

MAX ISR ALLOWED: 0.6 (60%)  
 MAX ISR PROVIDED: 41,698 / 329,313.6 = 0.13 (13%)

MAX BUILDING HEIGHT ALLOWED = 50-FT  
 MAX BUILDING HEIGHT PROPOSED = TBD (NO GREATER THAN 50-FT)

**SPECIAL NOTE TO CONTRACTOR(S):**  
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE. ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DO NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.



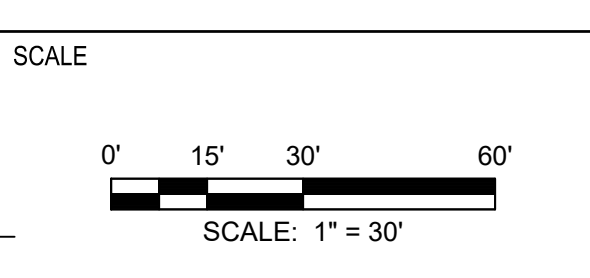
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TITLE  
**MASTER DEVELOPMENT PLAN**

PROJECT NO. 50150622

C2.1

SHEET NO.

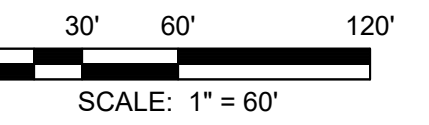
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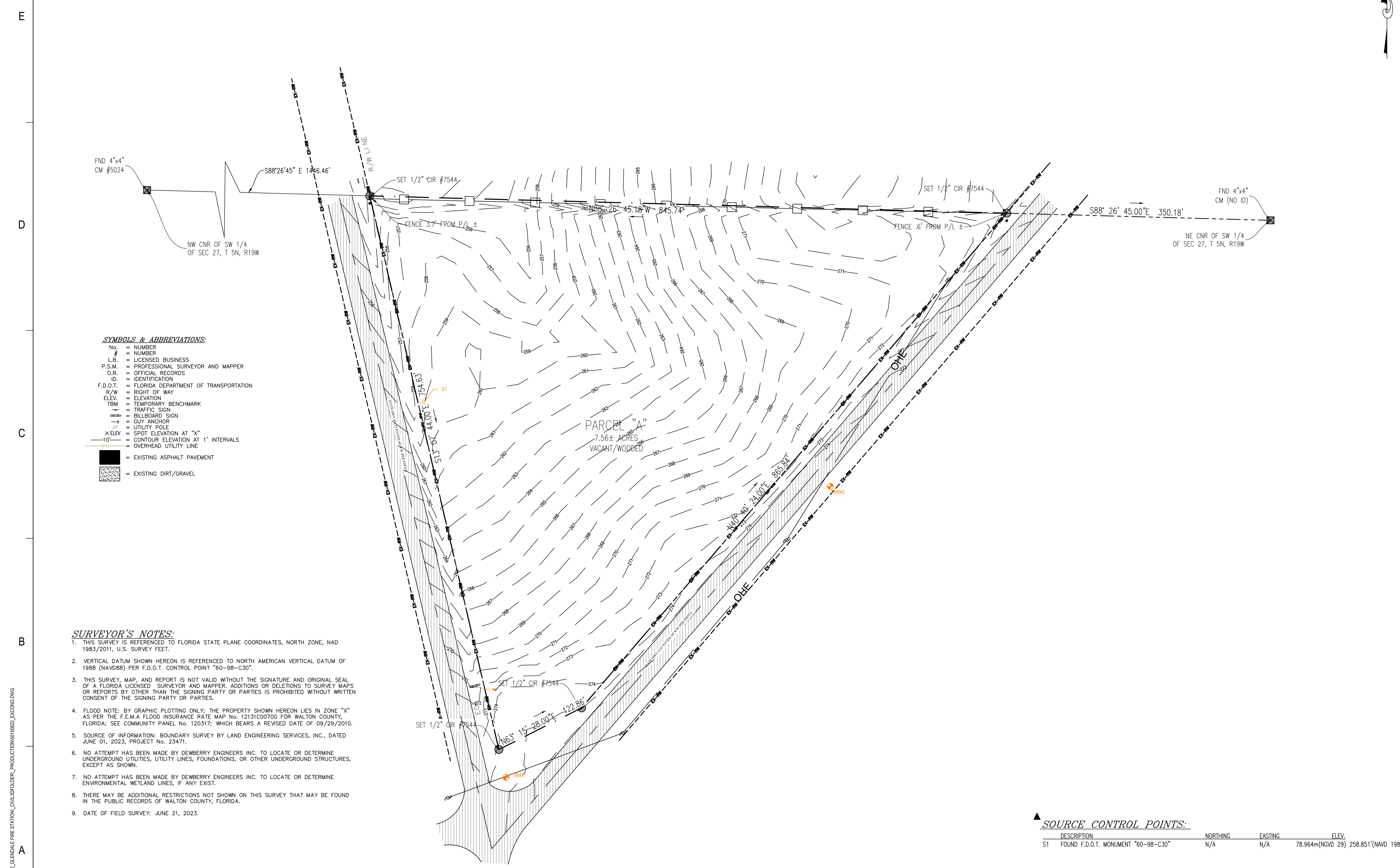
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TITLE  
**EXISTING  
CONDITIONS**

PROJECT NO. 50150622

**C3.1**

SHEET NO.



- SYMBOLS & ABBREVIATIONS:**
- No. = NUMBER
  - # = NUMBER
  - L.B. = LICENSED BUSINESS
  - P.S.M. = PROFESSIONAL SURVEYOR AND MAPPER
  - O.R. = OFFICIAL RECORDS
  - ID. = IDENTIFICATION
  - F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTATION
  - R/W = RIGHT OF WAY
  - ELEV. = ELEVATION
  - TBM = TEMPORARY BENCHMARK
  - +— = TRAFFIC SIGN
  - +—+— = BILLBOARD SIGN
  - +—+—+— = GUY ANCHOR
  - X ELEV. = SPOT ELEVATION AT "X"
  - 10'— = CONTOUR ELEVATION AT 1' INTERVALS
  - +—+—+— = OVERHEAD UTILITY LINE
  - +—+—+— = EXISTING ASPHALT PAVEMENT
  - +—+—+— = EXISTING DIRT/GRAVEL

- SURVEYOR'S NOTES:**
- THIS SURVEY IS REFERENCED TO FLORIDA STATE PLANE COORDINATES, NORTH ZONE, NAD 1983/2011, U.S. SURVEY FEET.
  - VERTICAL DATUM SHOWN HEREON IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER F.D.O.T. CONTROL POINT "60-98-C30".
  - THIS SURVEY, MAP, AND REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
  - FLOOD NOTE: BY GRAPHIC PLOTTING ONLY; THE PROPERTY SHOWN HEREON LIES IN ZONE "X" AS PER THE F.E.M.A FLOOD INSURANCE RATE MAP No. 12131C0070G FOR WALTON COUNTY, FLORIDA; SEE COMMUNITY PANEL No. 120317; WHICH BEARS A REVISED DATE OF 09/29/2010.
  - SOURCE OF INFORMATION: BOUNDARY SURVEY BY LAND ENGINEERING SERVICES, INC., DATED JUNE 01, 2023, PROJECT No. 23471.
  - NO ATTEMPT HAS BEEN MADE BY DEWBERRY ENGINEERS INC. TO LOCATE OR DETERMINE UNDERGROUND UTILITIES, UTILITY LINES, FOUNDATIONS, OR OTHER UNDERGROUND STRUCTURES, EXCEPT AS SHOWN.
  - NO ATTEMPT HAS BEEN MADE BY DEWBERRY ENGINEERS INC. TO LOCATE OR DETERMINE ENVIRONMENTAL WETLAND LINES, IF ANY EXIST.
  - THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF WALTON COUNTY, FLORIDA.
  - DATE OF FIELD SURVEY: JUNE 21, 2023.

**SOURCE CONTROL POINTS:**

DESCRIPTION	NORTHING	EASTING	ELEV.
S1 FOUND F.D.O.T. MONUMENT "60-98-C30"	N/A	N/A	78.964m(NGVD 29) 258.851'(NAVD 1988)

**TEMPORARY SITE CONTROL POINTS:**

DESCRIPTION	NORTHING	EASTING	ELEV. (NAVD 1988)
TBM#1 - SET 5/8" CAPPED IRON ROD L.B. 8011	697636.63'	1456558.34'	274.59'
TBM#2 - SET 5/8" CAPPED IRON ROD L.B. 8011	698022.99'	1456988.25'	273.31'

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C  
B  
A

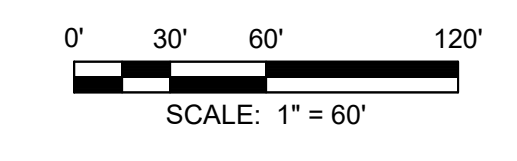
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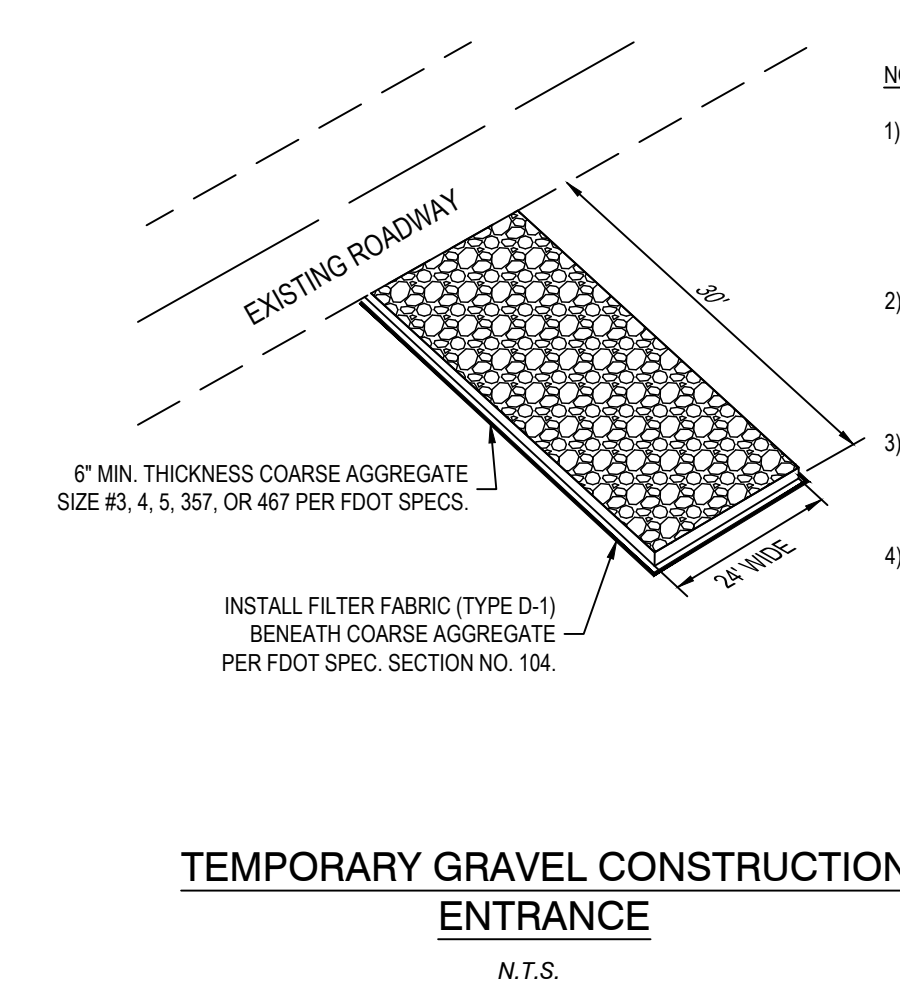
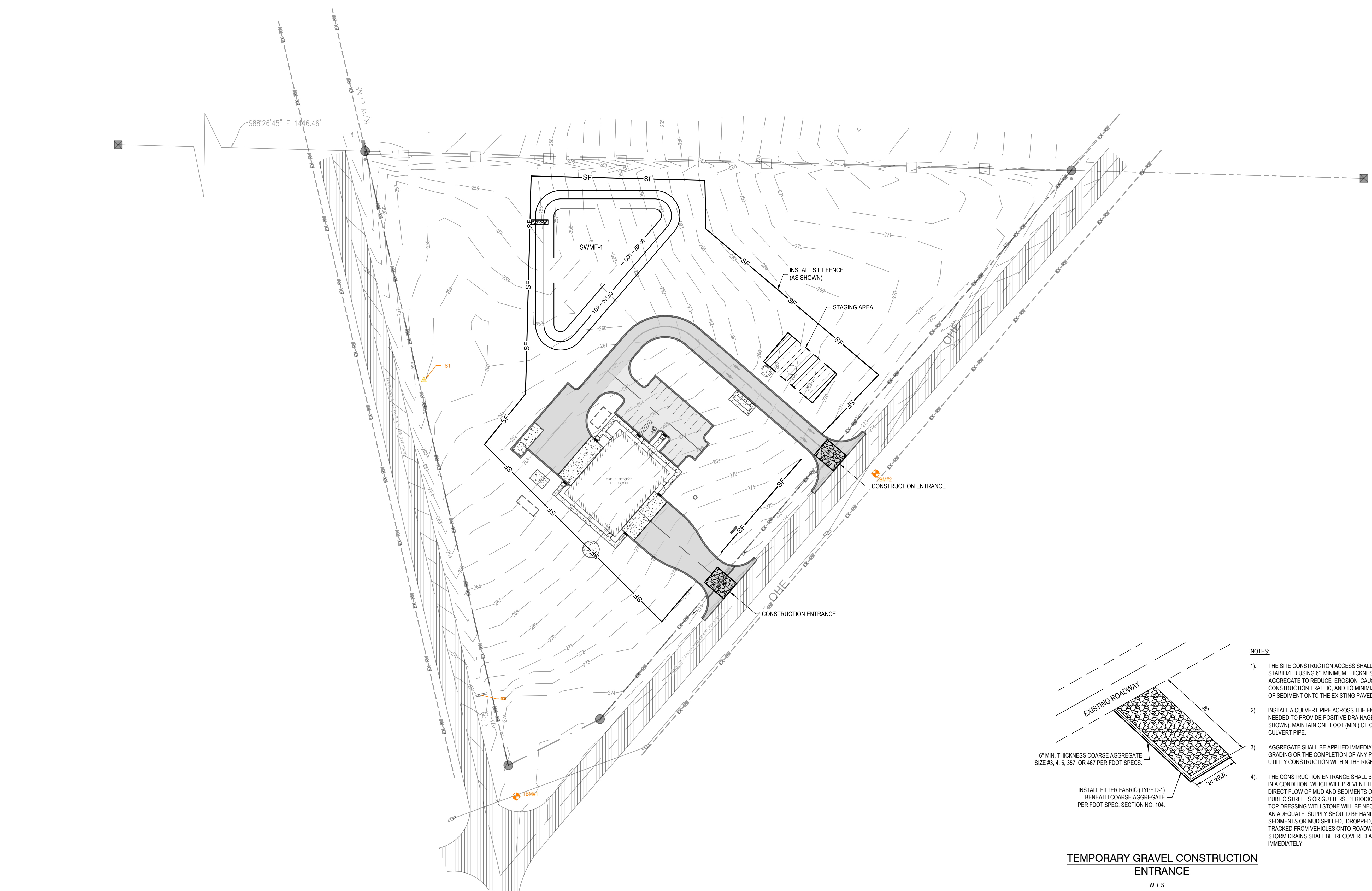
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TITLE  
**EROSION CONTROL**

PROJECT NO. \_\_\_\_\_ 50150622

**C3.2**

SHEET NO.



- NOTES:**
1. THE SITE CONSTRUCTION ACCESS SHALL BE STABILIZED USING 6" MINIMUM THICKNESS OF COARSE AGGREGATE TO REDUCE EROSION CAUSED BY CONSTRUCTION TRAFFIC, AND TO MINIMIZE TRANSPORT OF SEDIMENT ONTO THE EXISTING PAVED ROADWAY.
  2. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE AS NEEDED TO PROVIDE POSITIVE DRAINAGE. (NOT SHOWN). MAINTAIN ONE FOOT (MIN.) OF COVER OVER CULVERT PIPE.
  3. AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF ANY PROPOSED UTILITY CONSTRUCTION WITHIN THE RIGHT OF WAY.
  4. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD AND SEDIMENTS ONTO THE PUBLIC STREETS OR GUTTERS. PERIODIC TOP-DRESSING WITH STONE WILL BE NECESSARY AND AN ADEQUATE SUPPLY SHOULD BE HANDY. ANY SEDIMENTS OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE RECOVERED AND CLEANED UP IMMEDIATELY.

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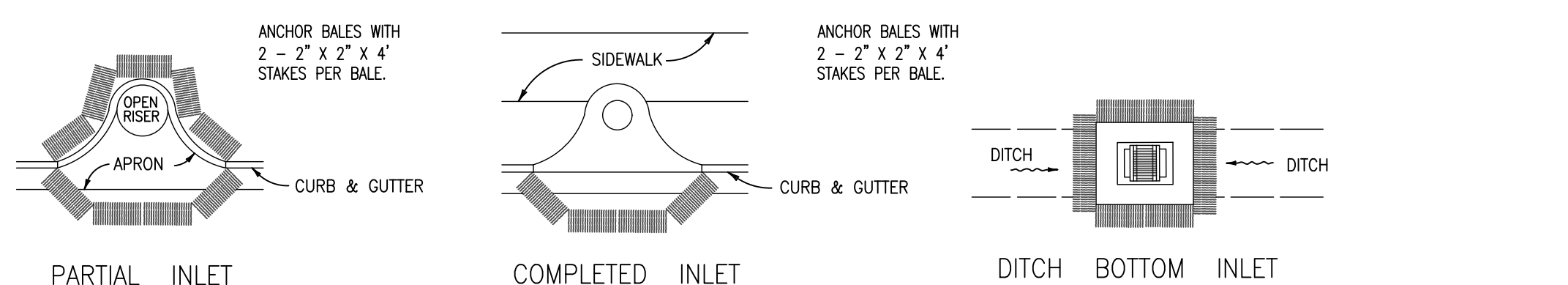
**STORMWATER POLLUTION PREVENTION PLAN:**

1. SITE DESCRIPTION: VACANT/WODDED
  - A. CONSTRUCTION ACTIVITY: CONSTRUCTION OF FIRE STATION, DRIVEWAYS AND UTILITIES
  - B. MAJOR SOIL DISTURBING ACTIVITIES: SITE CLEARING AND GRADING
  - C. TOTAL PROJECT AREA: 4.95 ACRES  
TOTAL SOIL AREA TO BE DISTURBED: 3.10 ACRES
  - D. RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION:  
DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A  
ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: N/A
  - E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A
2. NAME OF RECEIVING WATERS: N/A  
WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED
2. CONTROLS:
 

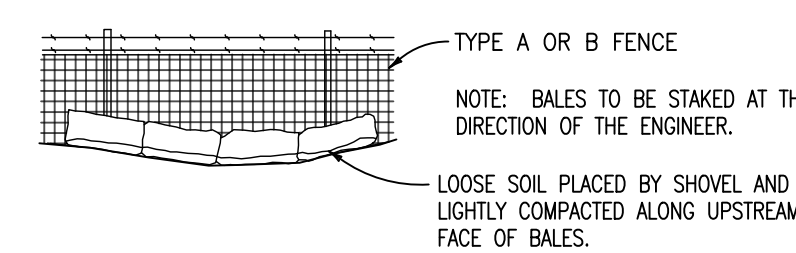
NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS  
THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.
- 2A. EROSION AND SEDIMENT CONTROLS:
  - (1) STABILIZATION PRACTICES:
    - TEMPORARY SODDING
    - TEMPORARY GRASSING
    - X PERMANENT PLANTING, SODDING, OR SEEDING
    - TEMPORARY MULCHING
    - ARTIFICIAL COVERING
    - X BUFFER ZONES
    - X PRESERVATION OF NATURAL RESOURCES
  - (2) STRUCTURAL PRACTICES:
    - SAND BAGGING
    - X SILT FENCES
    - X HAY BALES
    - X BERMS
    - DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
    - PIPE SLOPE DRAINS
    - FLUMES
    - ROCK BEDDING AT CONSTRUCTION EXIT
    - TIMBER BEDDING AT CONSTRUCTION EXIT
    - DITCH LINER
  - (3) DESCRIPTION OF STORMWATER MANAGEMENT:
    - SEDIMENT TRAPS
    - SEDIMENT BASINS
    - STORM INLET SEDIMENT TRAP (ROCK BAGS)
    - STONE OUTLET STRUCTURES
    - CURBS AND GUTTERS
    - STORM SEWERS
    - VELOCITY CONTROL DEVICES
    - TURBIDITY BARRIER
    - X RIP RAP
  - (4) OTHER CONTROLS:
    - (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
    - (2) OFFSITE VEHICLE TRACKING:
      - HAIL ROADS DAMPENED FOR DUST CONTROL
      - X LOADED HAIL TRUCKS TO BE COVERED WITH TARPULIN
      - X EXCESS DIRT ON ROAD REMOVED DAILY
      - X STABILIZED CONSTRUCTION ENTRANCE
    - (3) SANITARY WASTE: N/A
    - (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
    - (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.
- 2E. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: WALTON COUNTY DEVELOPMENT ORDER No. MIN23-000048
3. MAINTENANCE:
 

ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
4. INSPECTION:
 

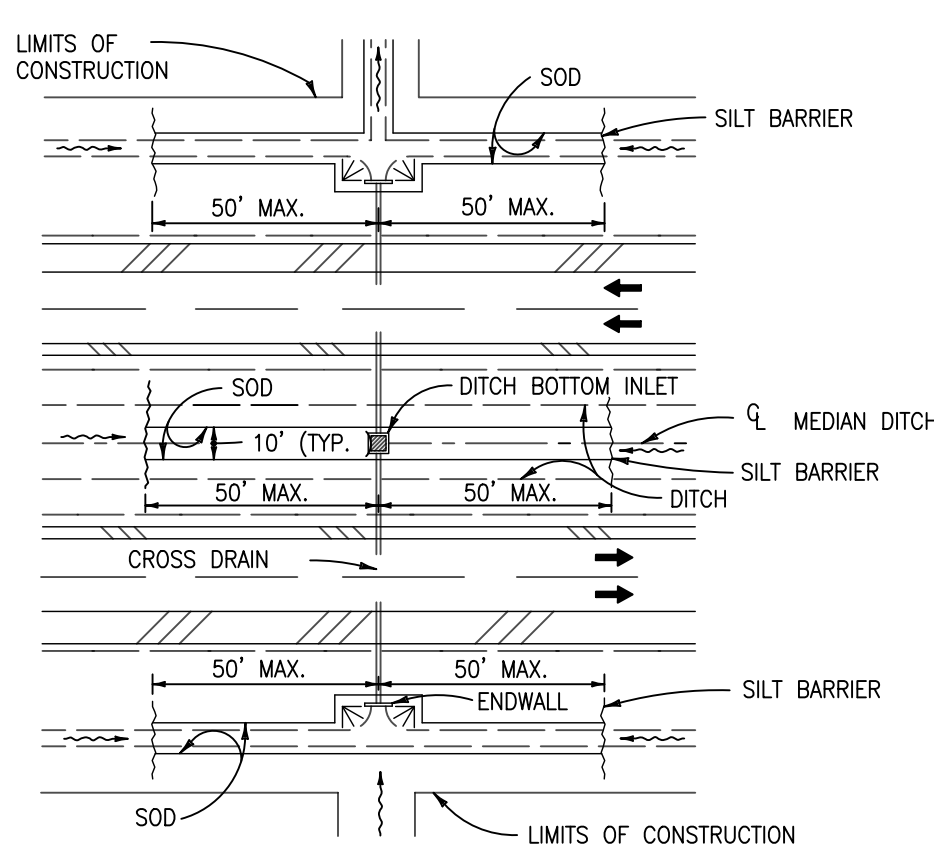
ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY AT 850-233-5100 PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



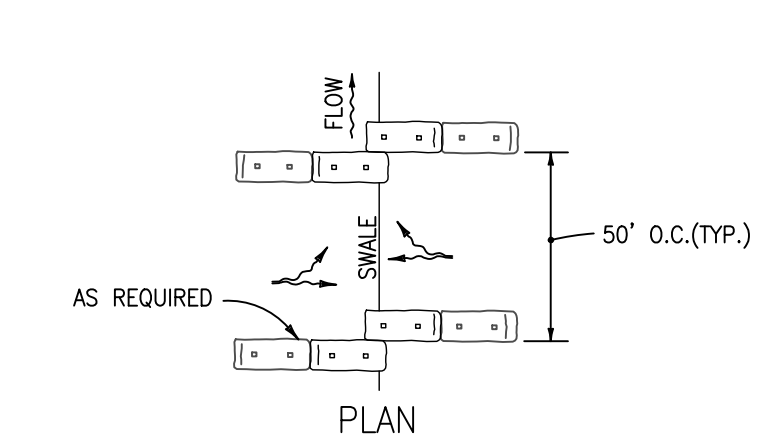
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



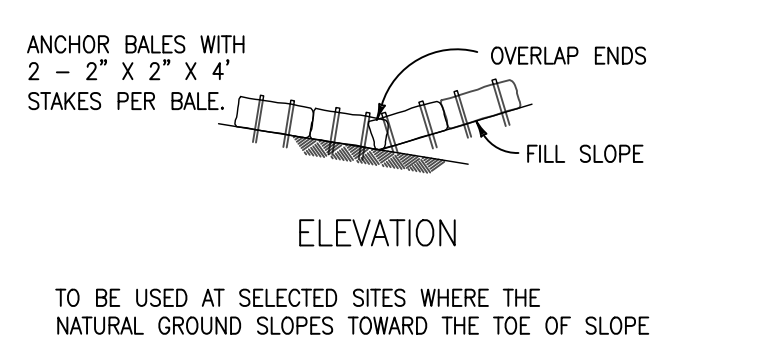
BALES BACKED BY FENCE



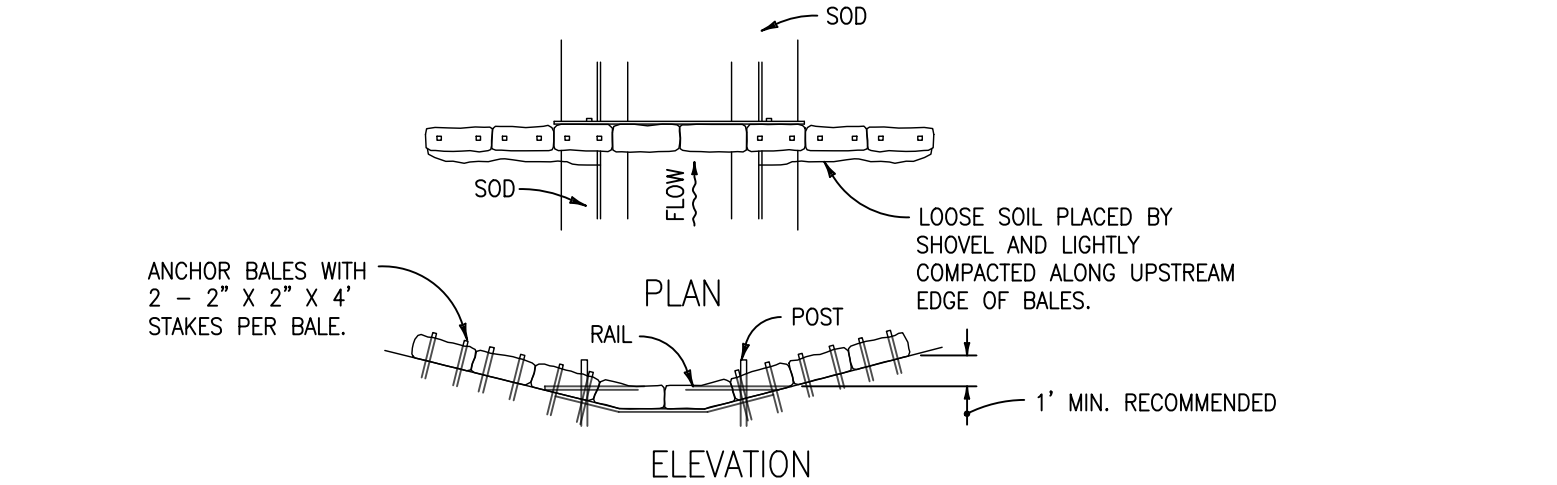
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



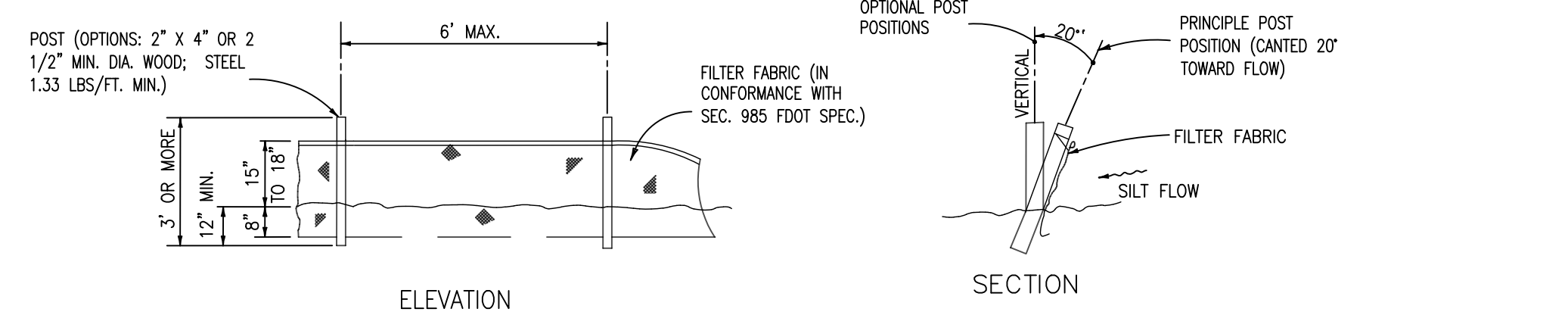
BARRIER FOR PAVED DITCH



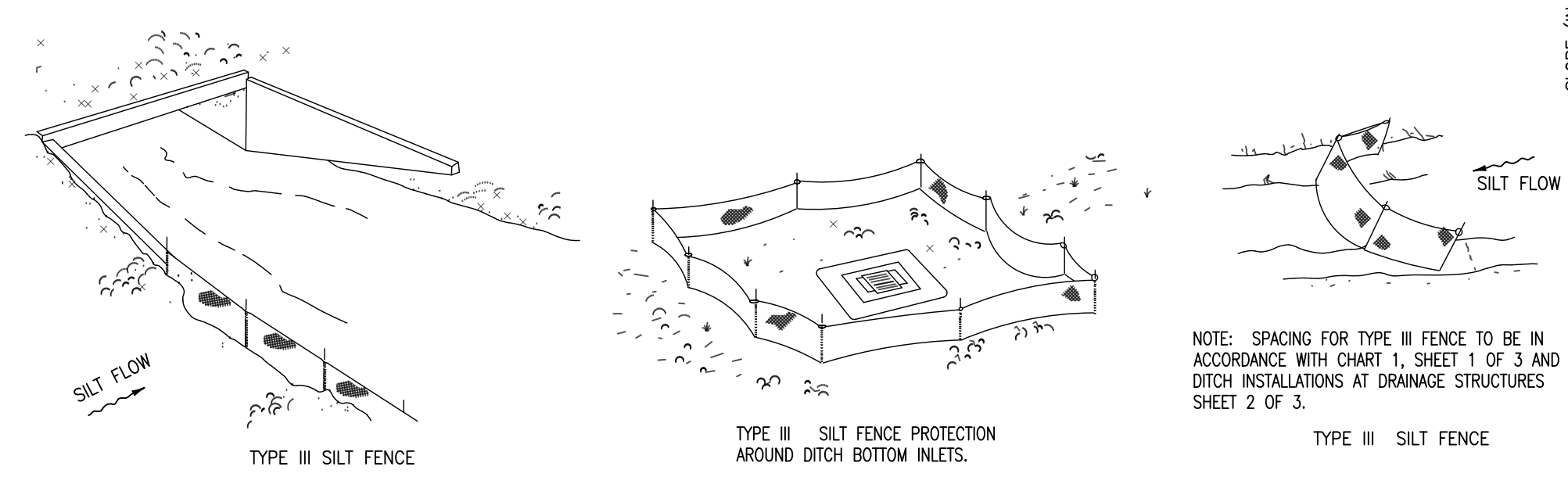
BARRIERS FOR FILL SLOPES



BARRIER FOR UNPAVED DITCHES



TYPE III SILT FENCE



SILT FENCE APPLICATIONS

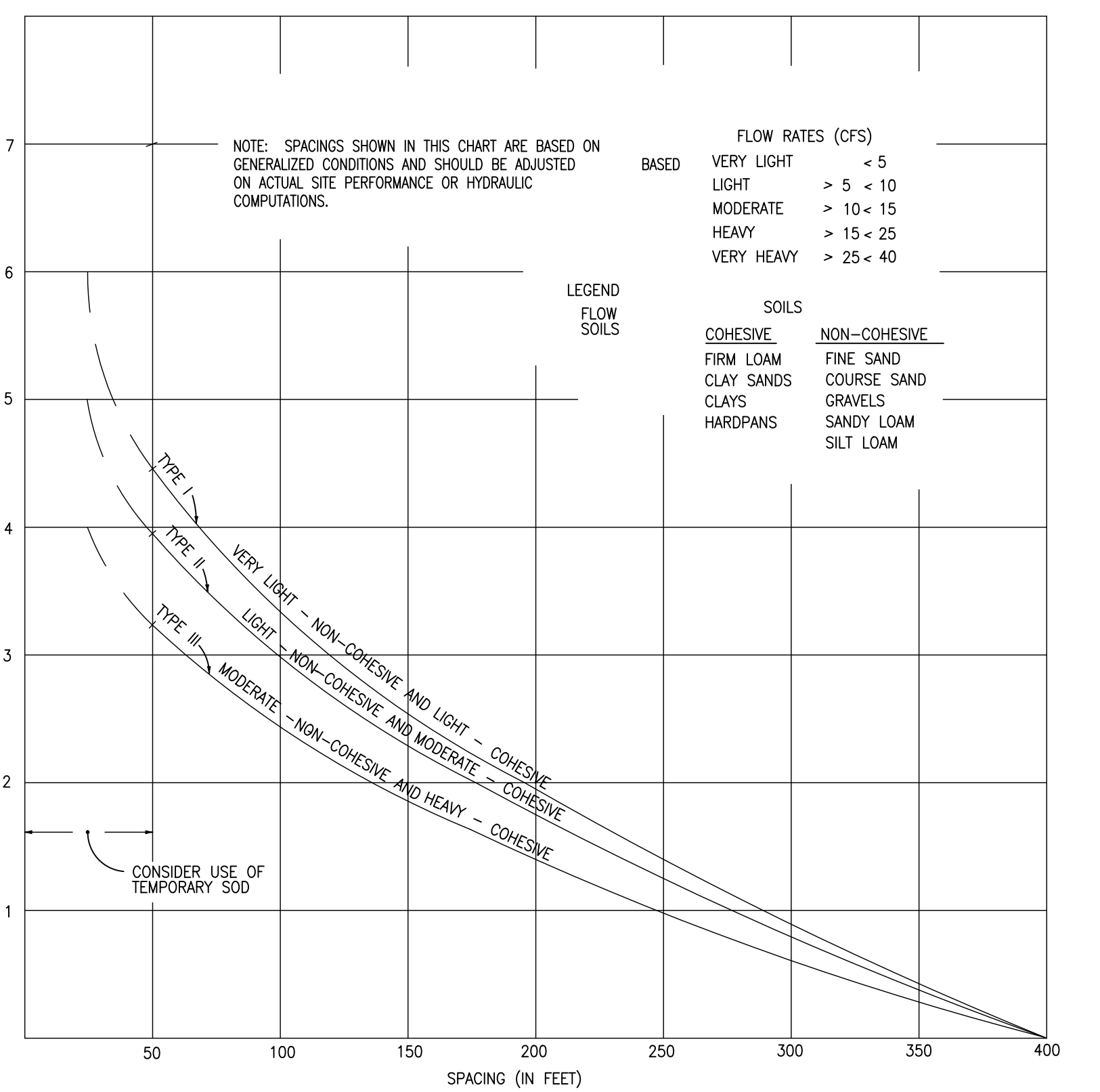


CHART I  
RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES



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TITLE  
**STORMWATER  
POLLUTION  
PREVENTION AND  
PROTECTION PLAN**

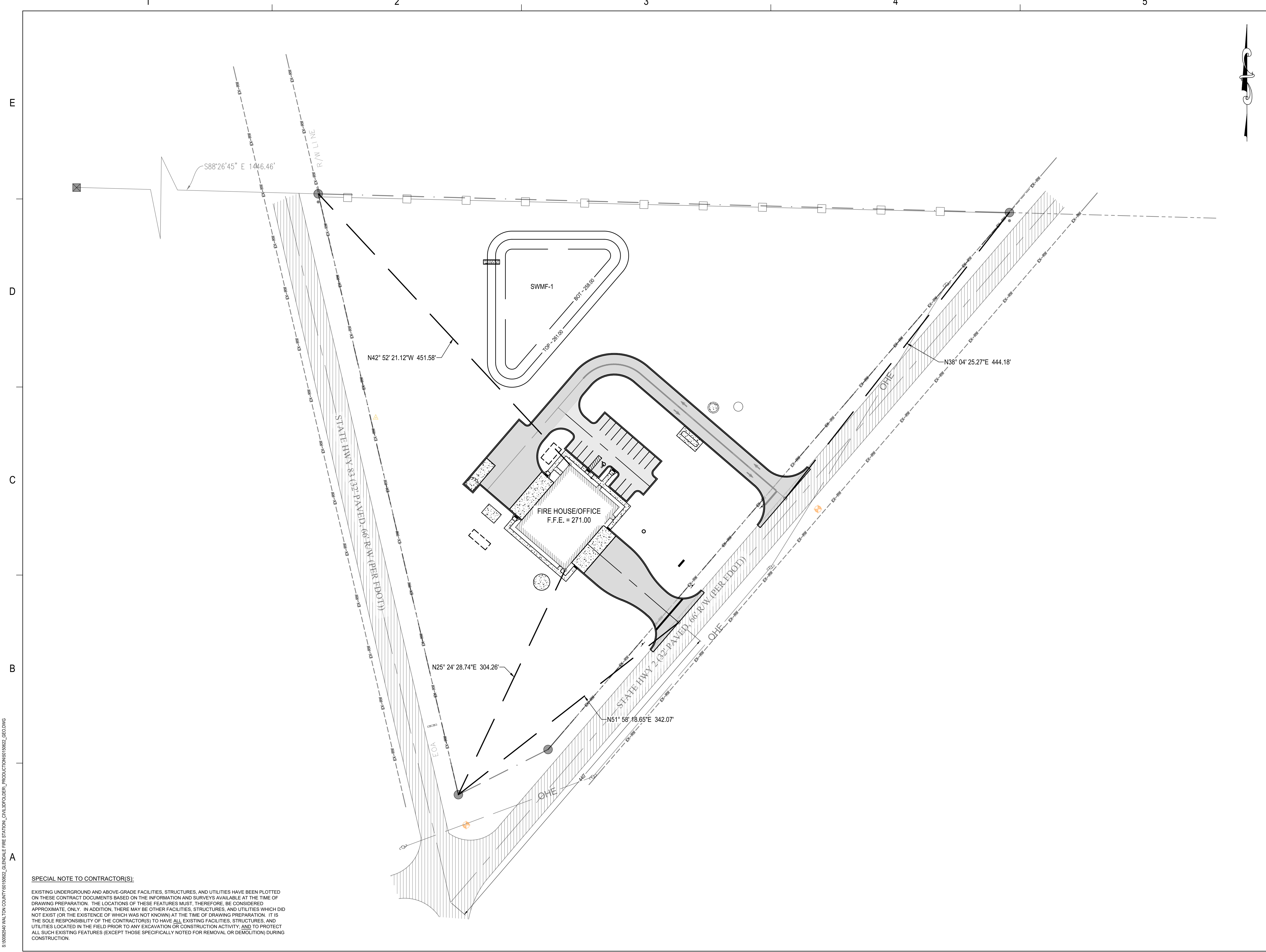
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**C3.3**

SHEET NO.

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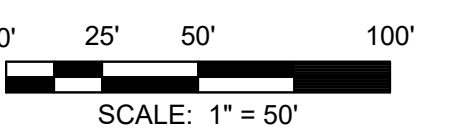
**GLENDALE FIRE STATION  
 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA**

SEAL

RUDOLPH A. MALL, P.E. 94479  
 EB 0008794

FOR BID

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ BTW  
 APPROVED BY \_\_\_\_\_ BTW  
 CHECKED BY \_\_\_\_\_ RAM  
 DATE \_\_\_\_\_ JANUARY 2024

TITLE  
**SITE LAYOUT PLAN**

PROJECT NO. 50150622

**C4.1**

SHEET NO.

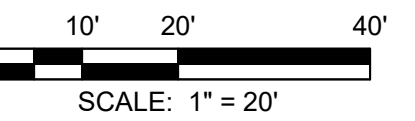
**LENDALE FIRE STATION  
 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA**

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 EB 0008794

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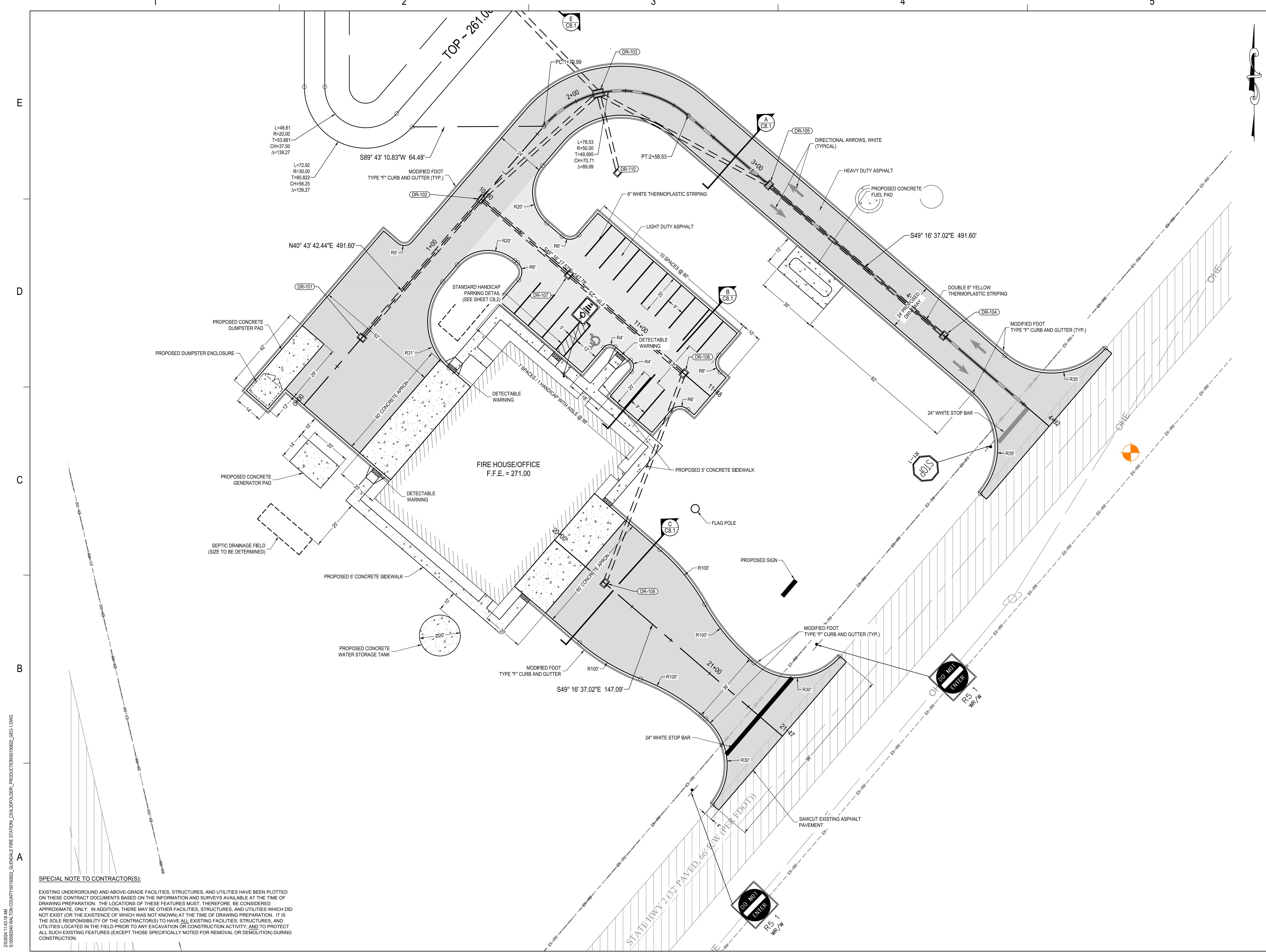
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DATE	JANUARY 2024

TITLE  
**SITE GEOMETRY  
 PLAN**

PROJECT NO. 50150622

**C4.2**

SHEET NO.



**SPECIAL NOTE TO CONTRACTOR(S):**  
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

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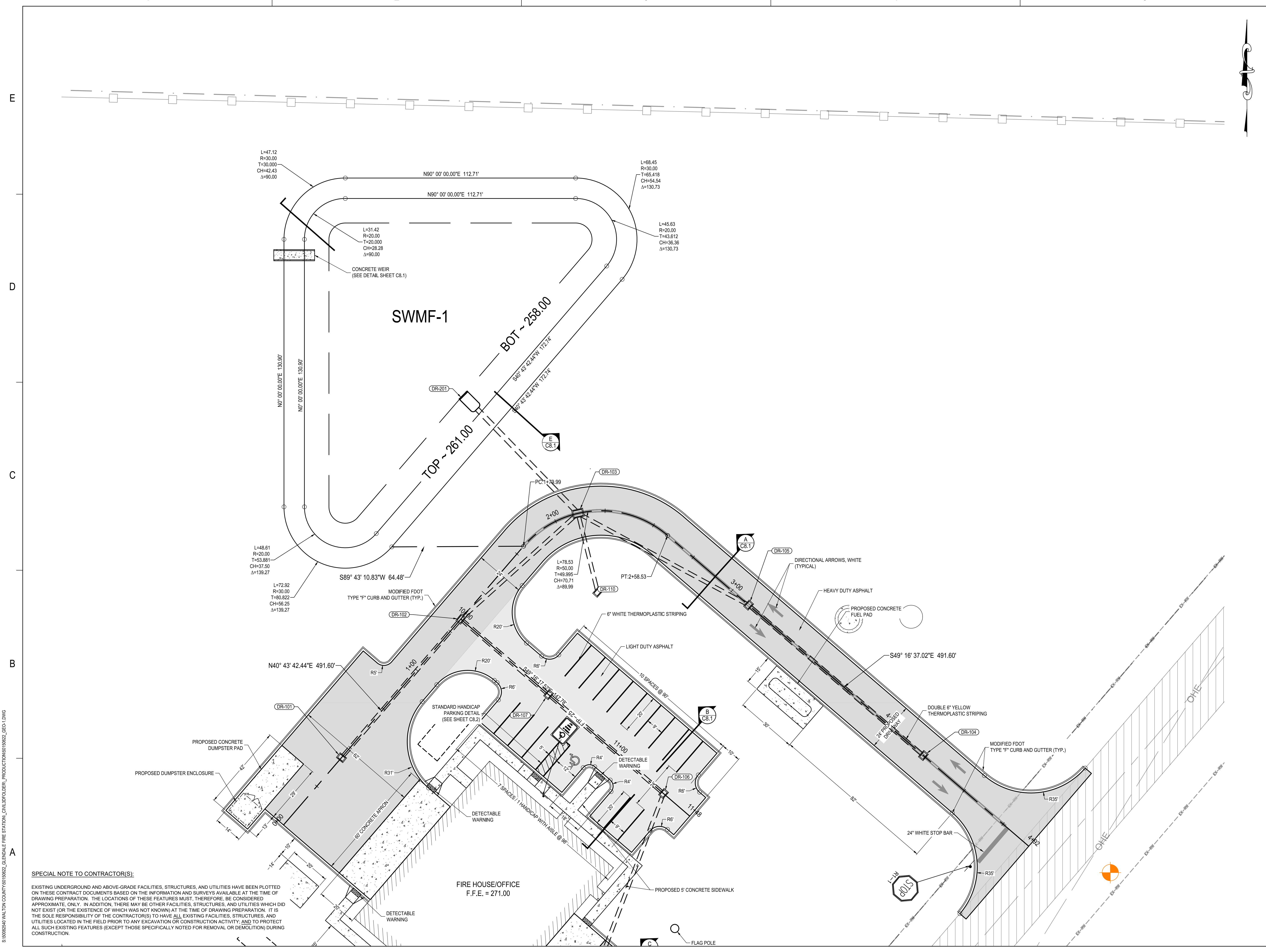
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DATE	JANUARY 2024

TITLE  
**SITE GEOMETRY PLAN**

PROJECT NO. 50150622

**C4.3**

SHEET NO.



**SPECIAL NOTE TO CONTRACTOR(S):**  
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

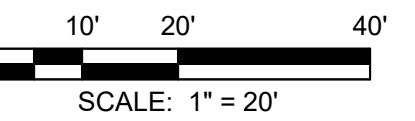
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RUDOLPH A. MALL, P.E. 94479  
 EB 0008794

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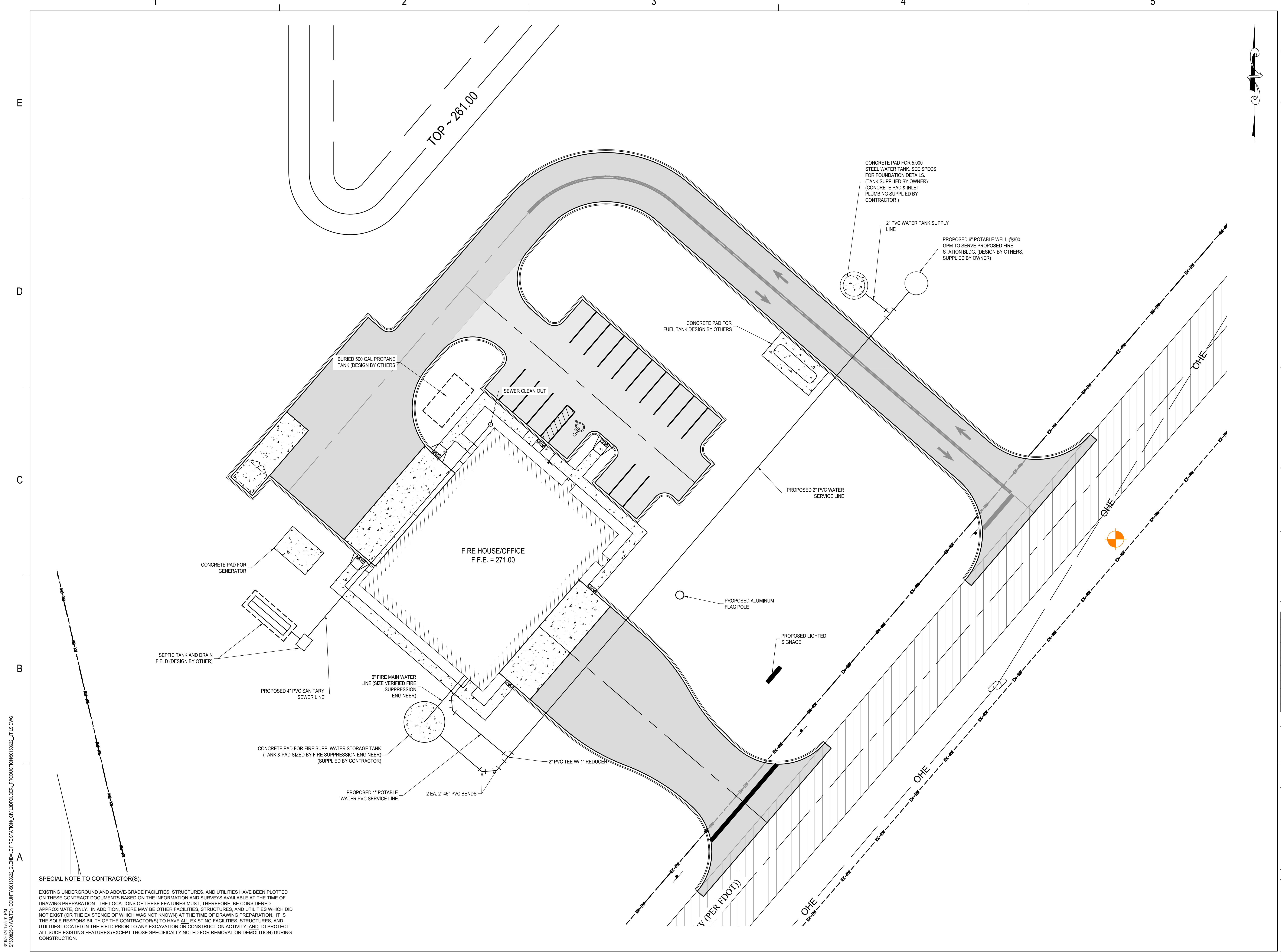
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TITLE  
**UTILITY PLAN**

PROJECT NO. 50150622

**C5.1**

SHEET NO.



**SPECIAL NOTE TO CONTRACTOR(S):**  
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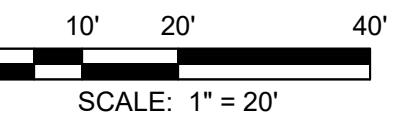
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EB 0008794

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DATE \_\_\_\_\_ JANUARY 2024

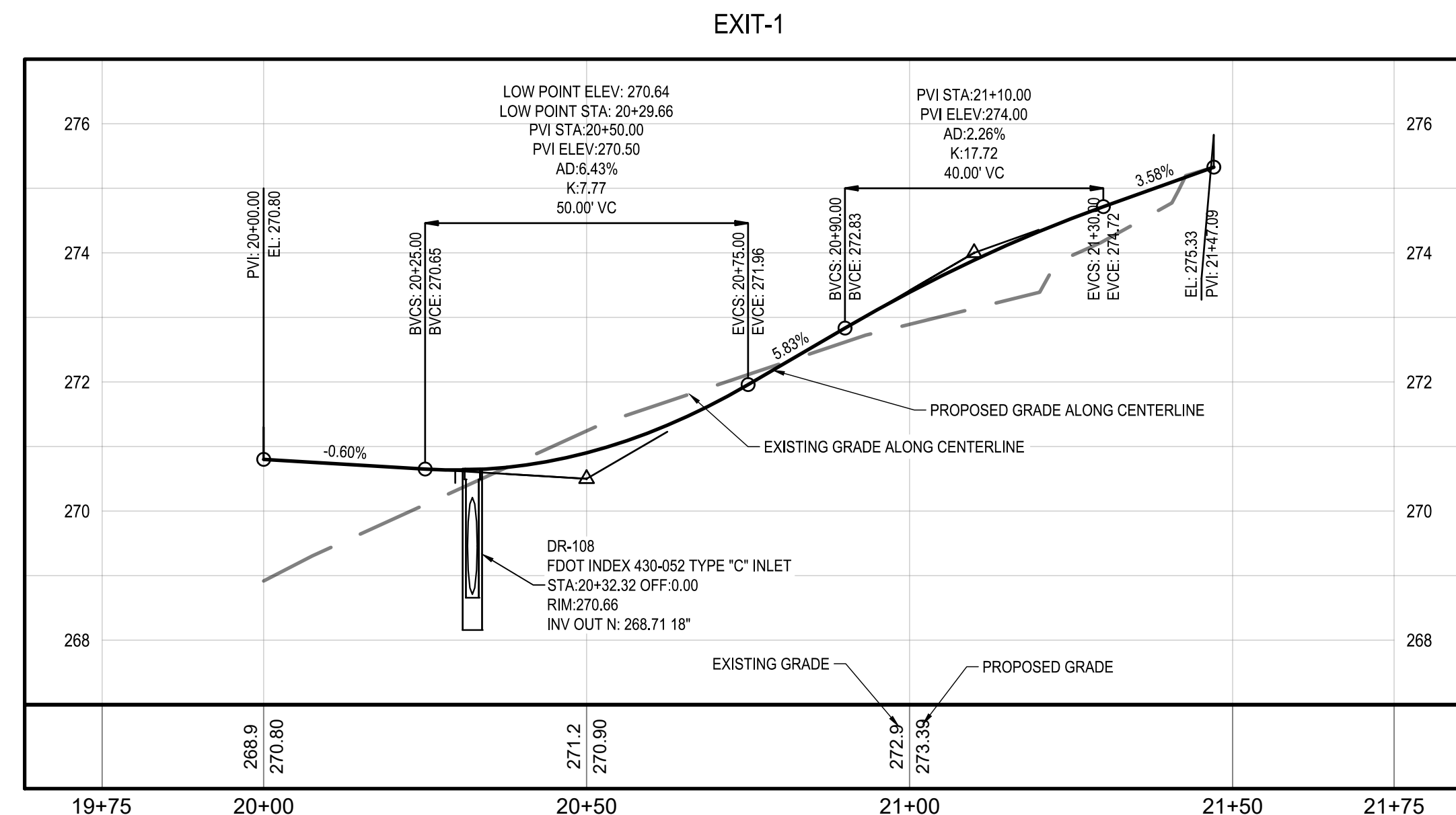
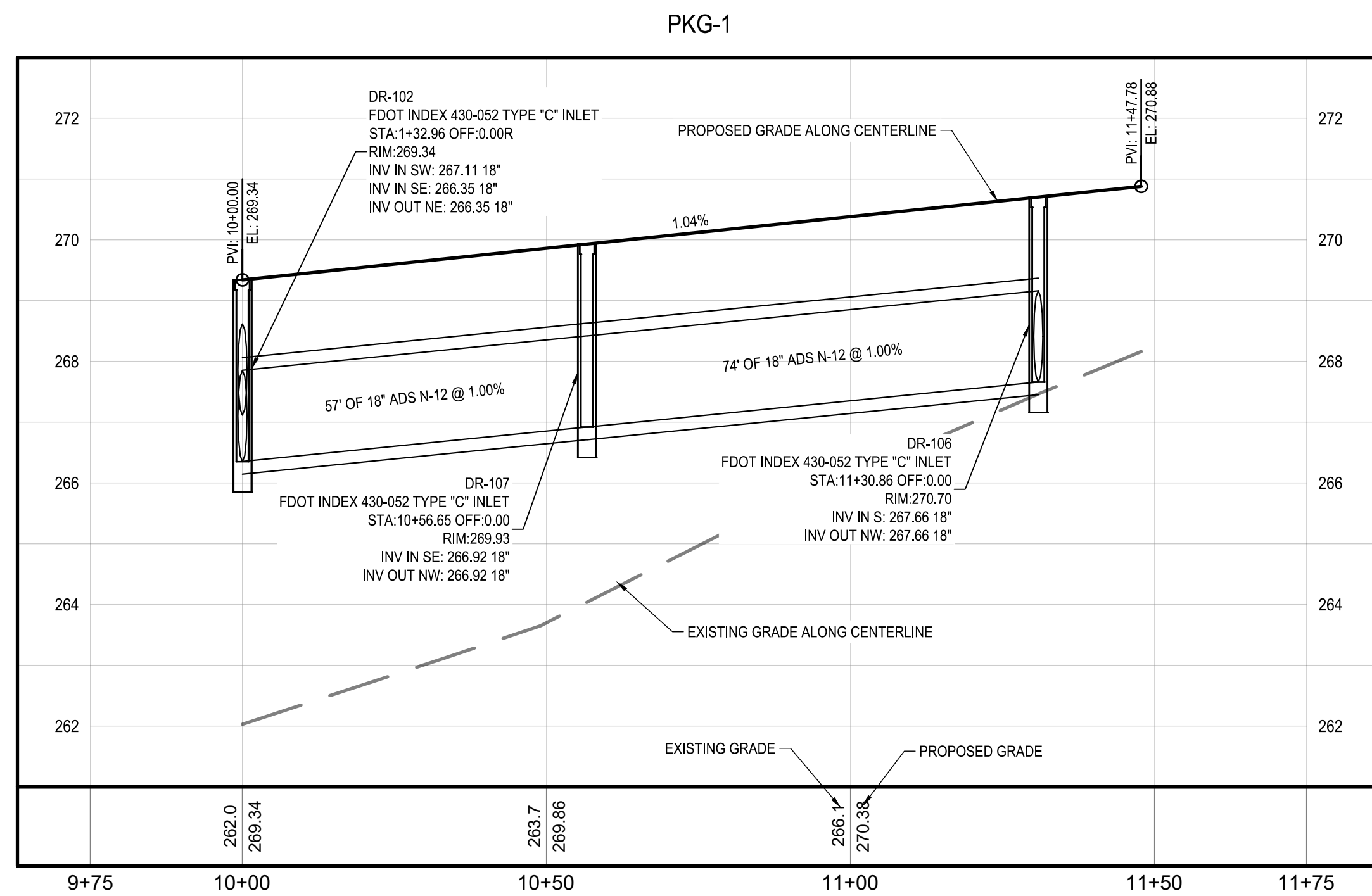
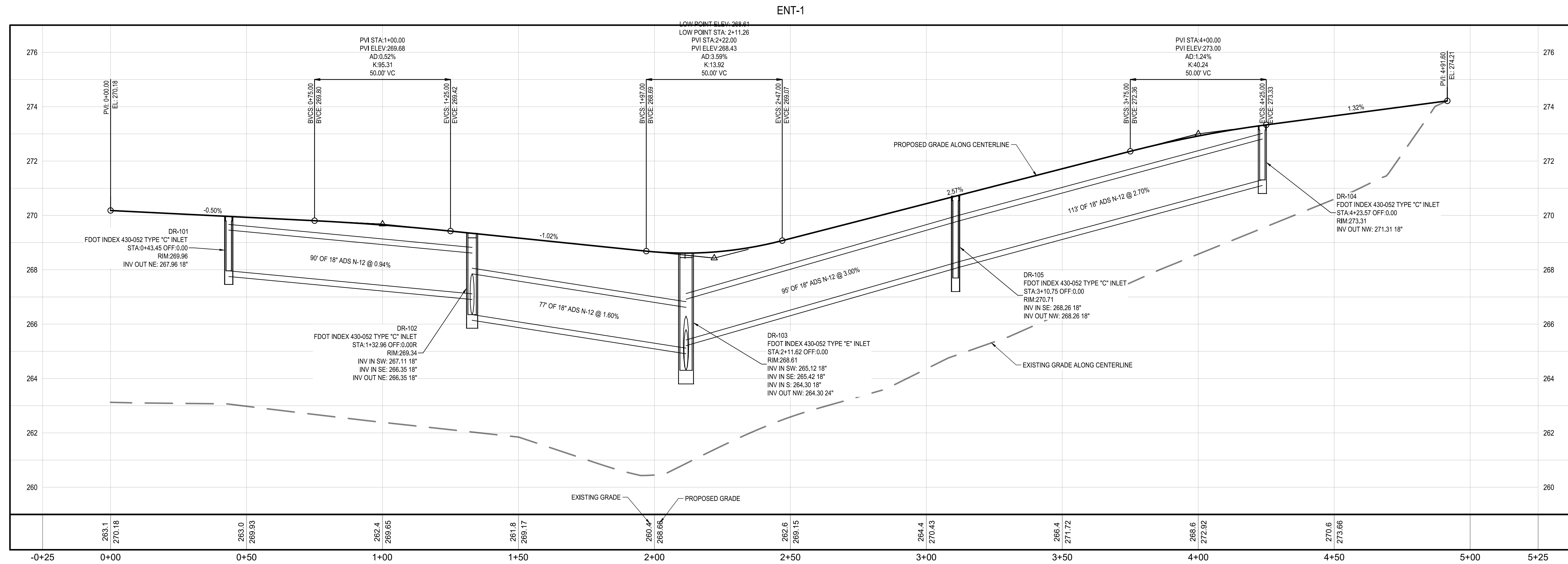
TITLE

**ROADWAY PROFILES**

PROJECT NO. \_\_\_\_\_ 50150622

**C6.1**

SHEET NO.



**SPECIAL NOTE TO CONTRACTOR(S):**

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NOTE:  
ALL ROOF DRAINS AND DOWNSPOUTS WILL BE DIRECTED TO NEAREST STORMWATER INLET AND THEN DIRECTED TO THE STORMWATER MANAGEMENT FACILITY (SWMF).



877 CR 393 North  
Santa Rosa Beach, FL 32459  
850.267.0759

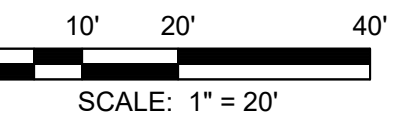
GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

SEAL

RUDOLPH A. MALL P.E. 94479  
EB 0008794

FOR BID

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

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DATE	JANUARY 2024

TITLE

PAVING AND  
DRAINAGE

PROJECT NO. 50150622

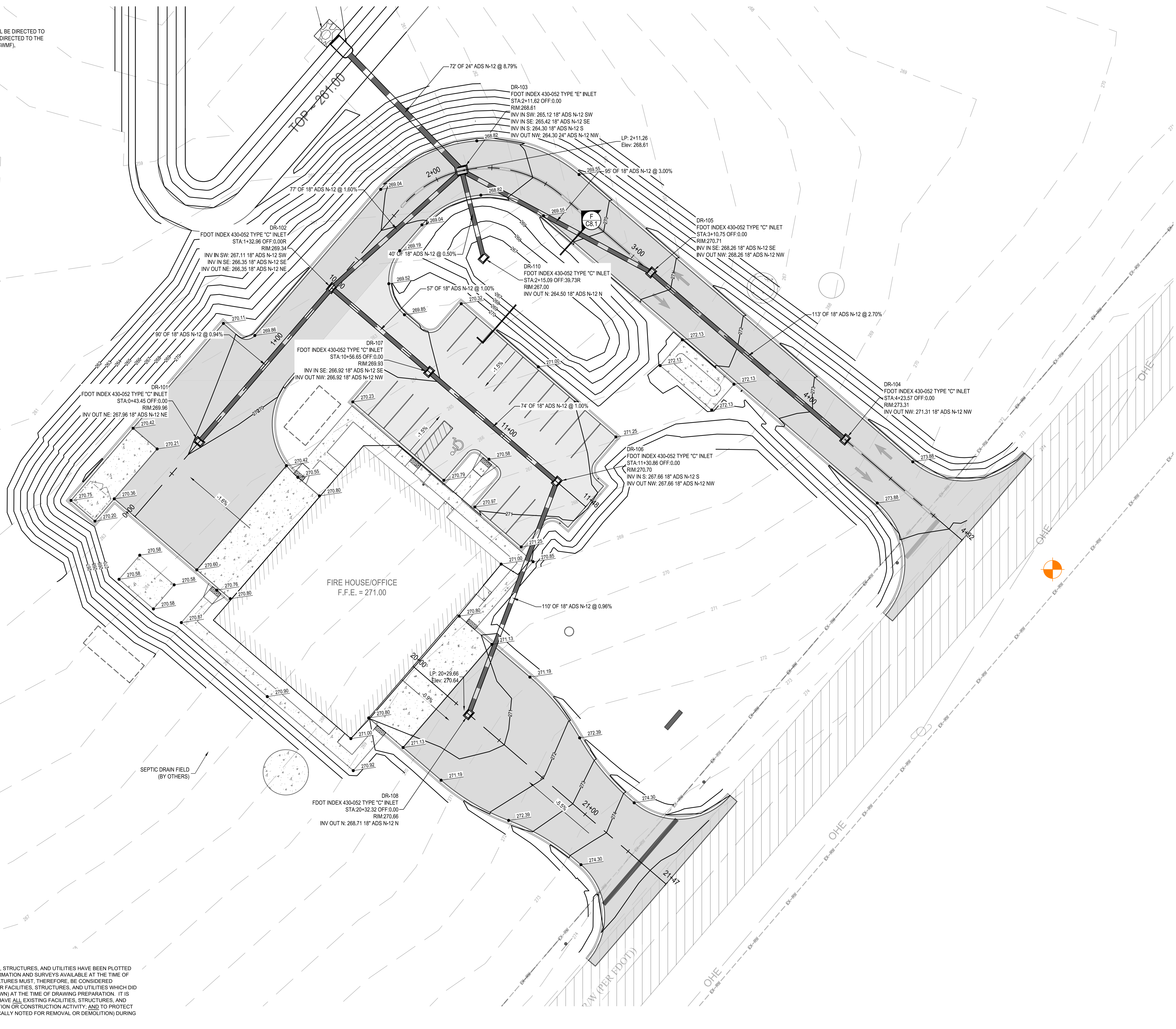
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**SPECIAL NOTE TO CONTRACTOR(S):**  
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Santa Rosa Beach, FL 32459  
850.267.0759

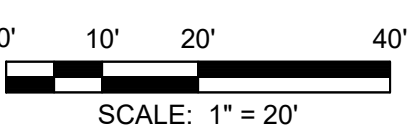
GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

SEAL

RUDOLPH A. MALL P.E. 94479  
EB 0008794

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SCALE



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APPROVED BY	BTW
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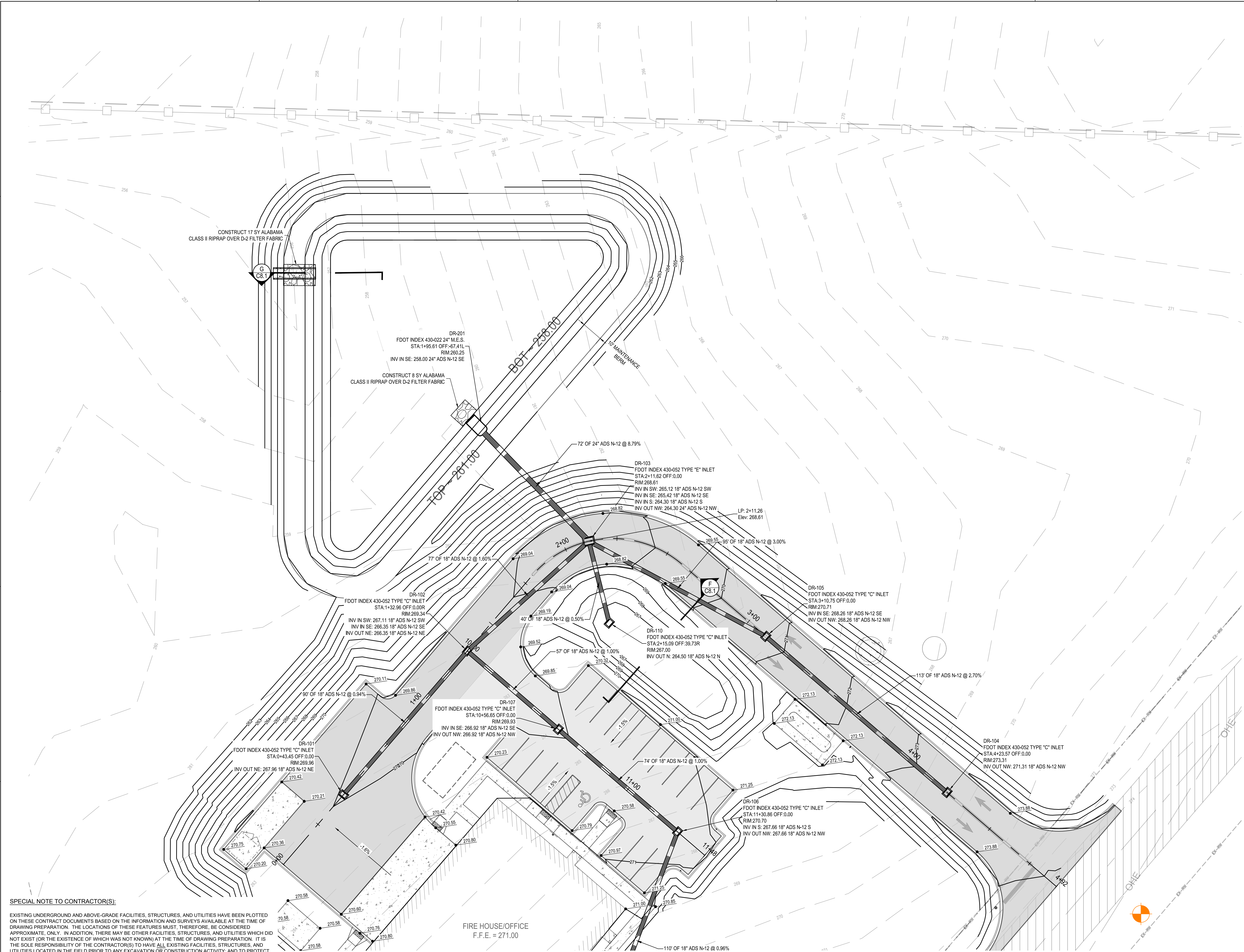
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PAVING AND  
DRAINAGE

PROJECT NO. 50150622

C7.2

SHEET NO.



**SPECIAL NOTE TO CONTRACTOR(S):**  
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FIRE HOUSE/OFFICE  
F.F.E. = 271.00

25/02/24 11:43:39 AM  
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RUDOLPH A. MALL, P.E. 94479  
EB 0008794

FOR BID

SCALE

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 DATE \_\_\_\_\_ JANUARY 2024

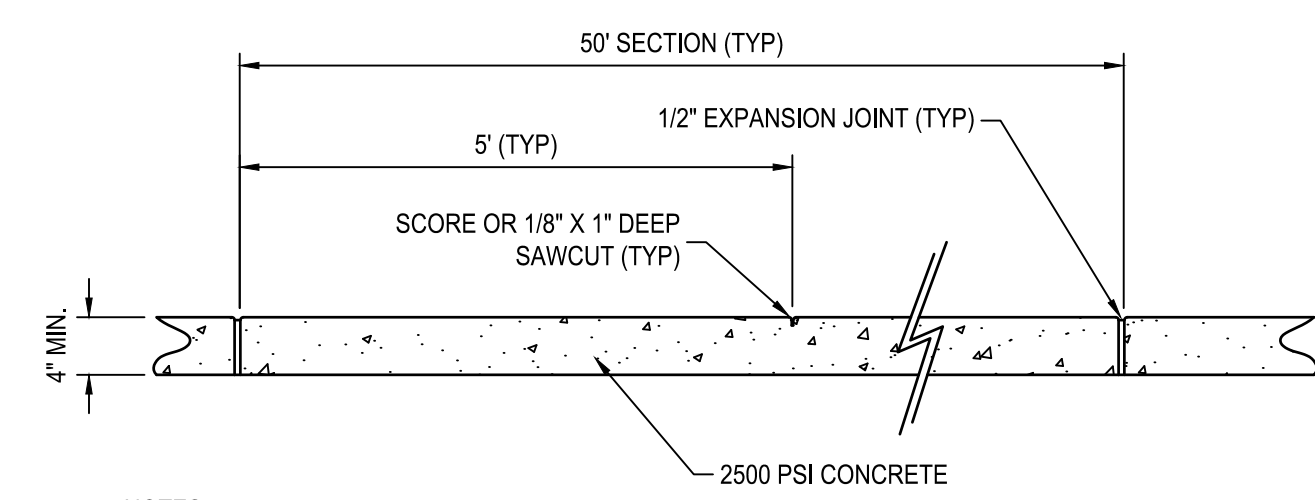
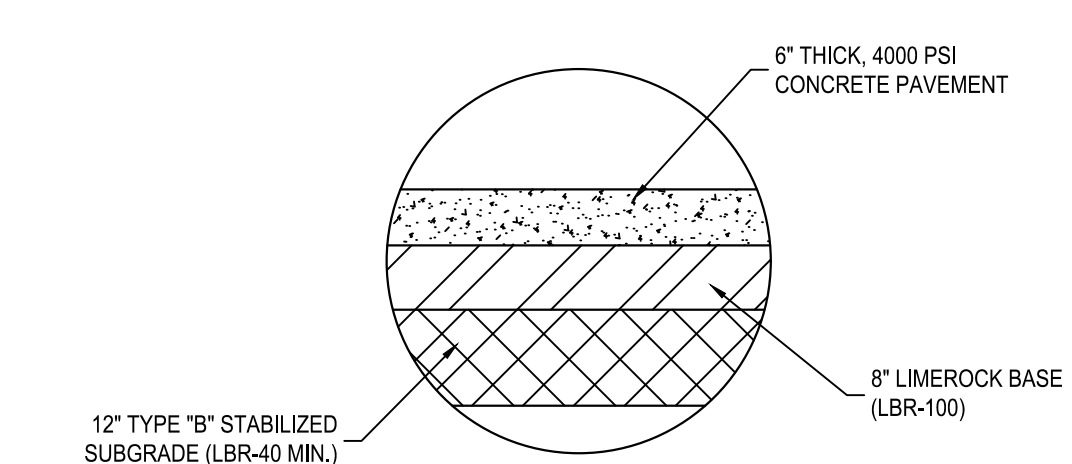
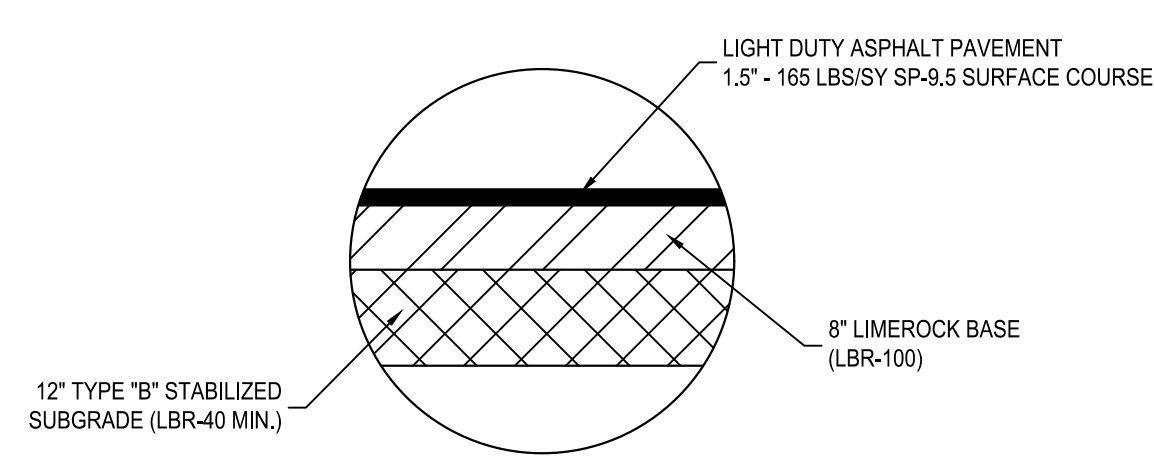
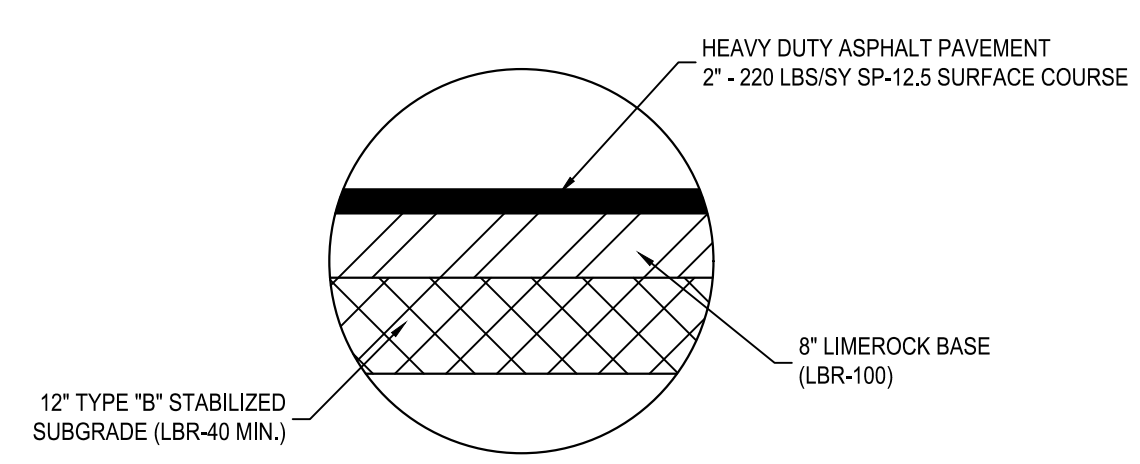
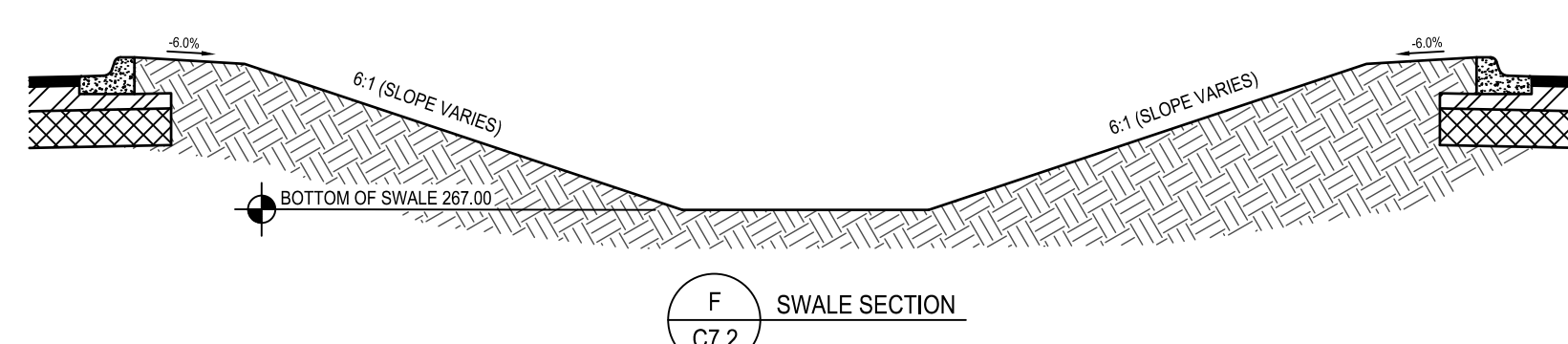
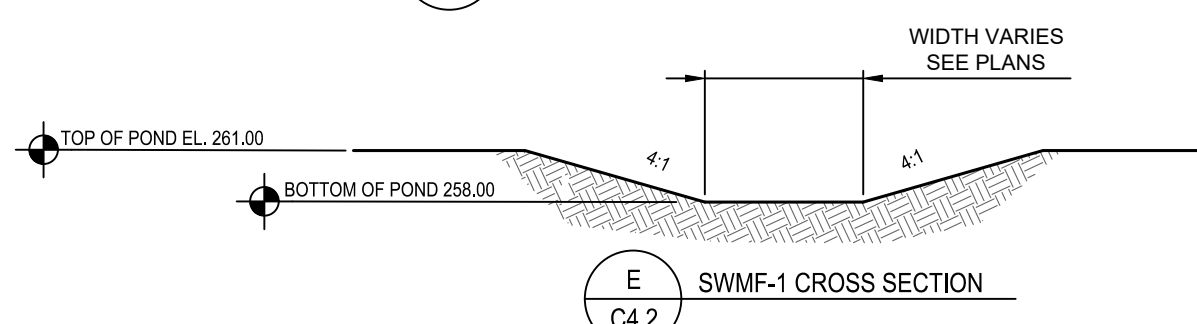
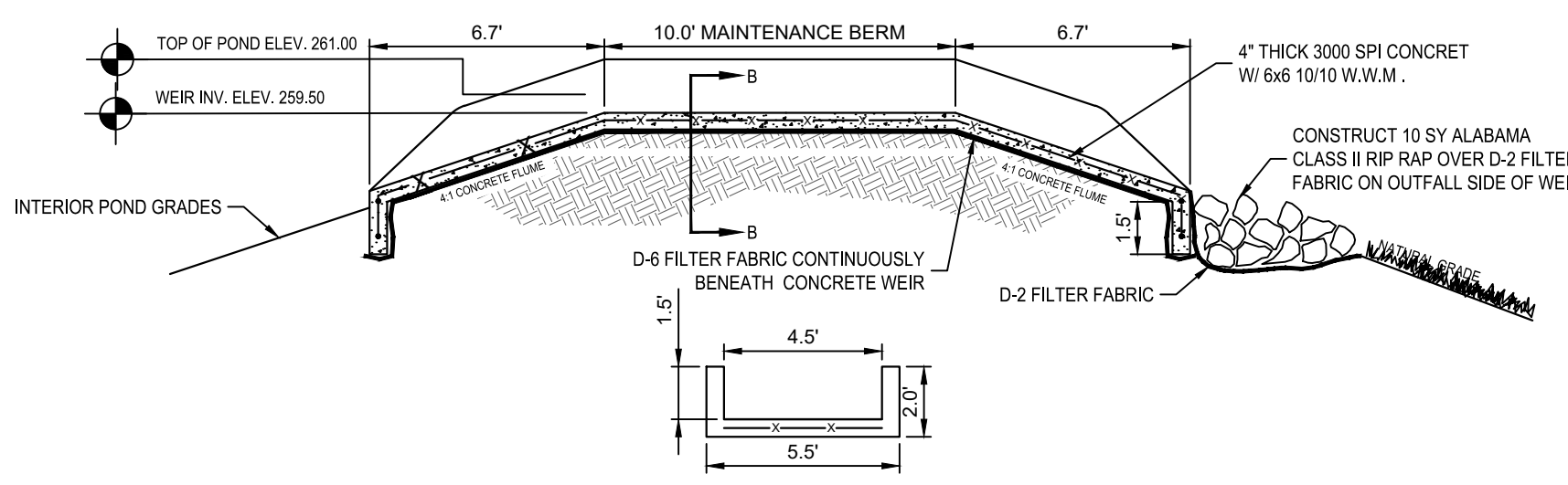
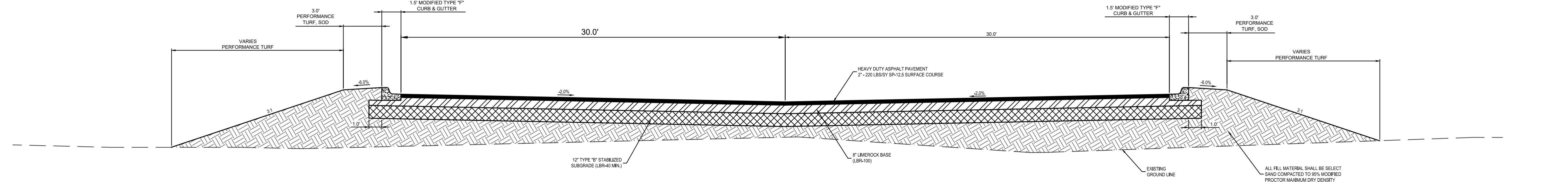
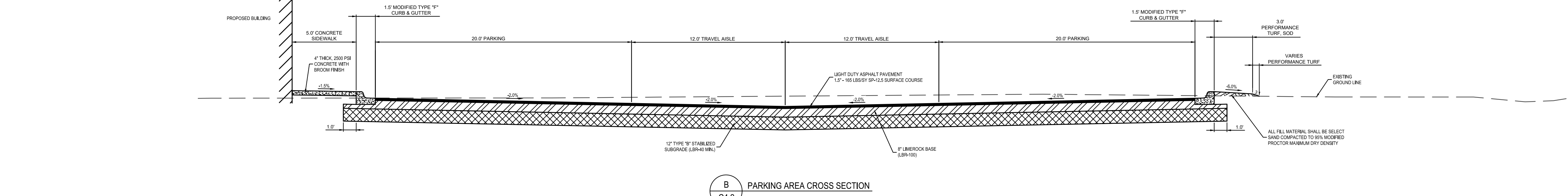
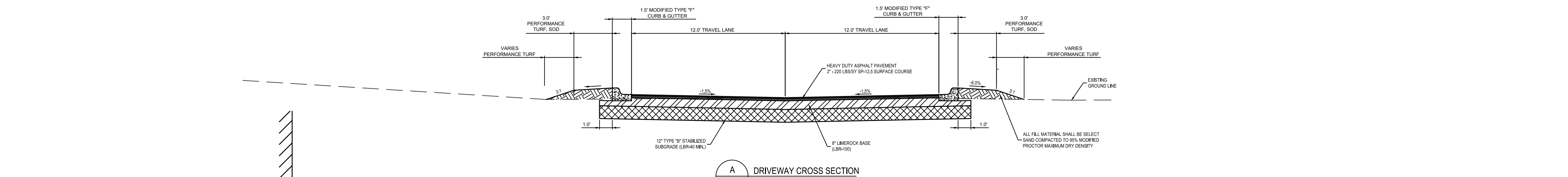
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DETAILS**

PROJECT NO. \_\_\_\_\_ 50150622

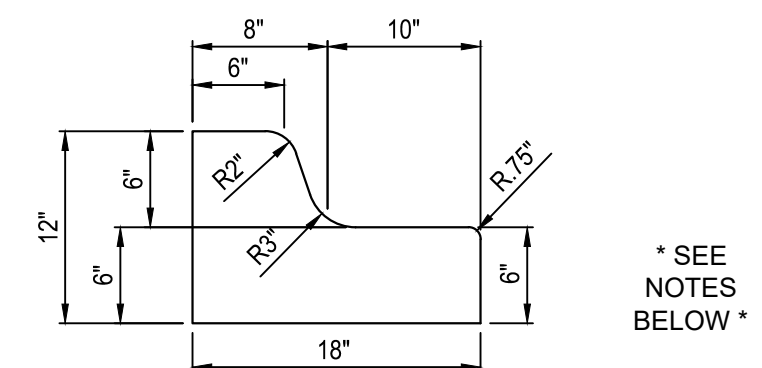
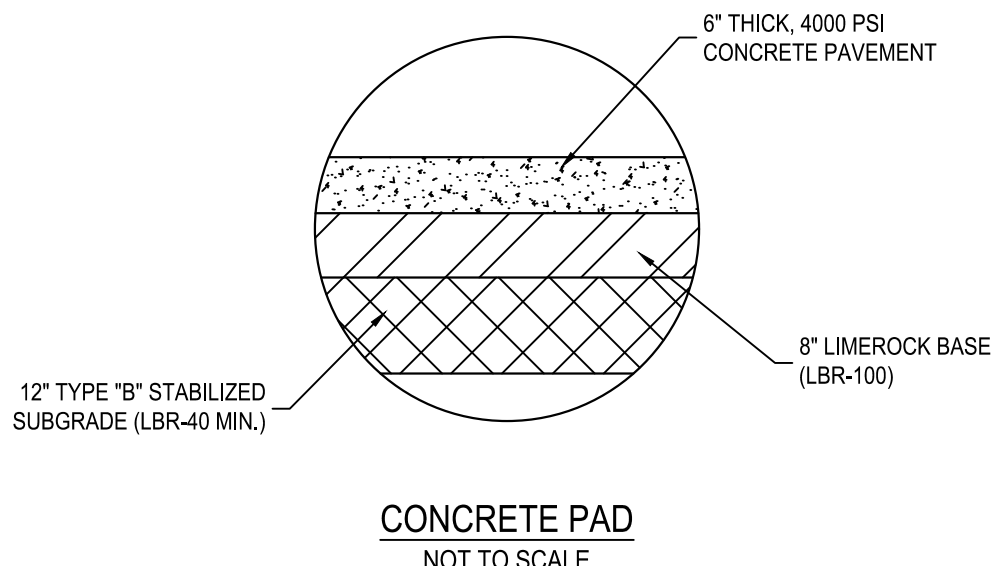
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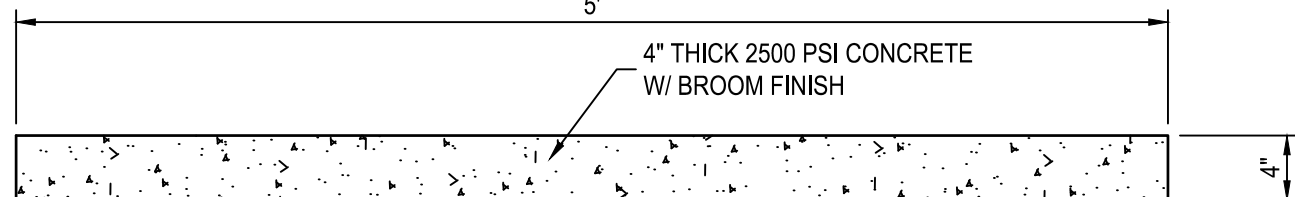


- NOTES:
- EXPANSION JOINTS SHALL BE 1/2 INCH THICK, FORMED WITH A PRE-FORMED JOINT FILLER. EXPANSION JOINTS SHALL BE PROVIDED AT ALL POINTS OF TANGENCY FOR CURBS AND SHALL BE LOCATED AT MAXIMUM INTERVALS OF 50 FEET BETWEEN OTHER EXPANSION JOINTS OR AT ENDS OF RUN. IN ADDITION, EXPANSION JOINTS SHALL BE PROVIDED AT THE INTERFACE BETWEEN CONCRETE CURBS AND CONCRETE PAVEMENT OR OTHER CONCRETE OBJECTS.
  - CONTRACTION JOINTS MAY BE OF THE OPEN TYPE OR MAY BE SAWS. CONTRACTION JOINTS SHALL BE SPACED AT MAXIMUM INTERVALS OF FIVE FEET.



- WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.
- 1/8" TO 1/4" CONTRACTION JOINTS TO BE PLACED AT 10' CENTERS (MAX.). CONTRACTION JOINTS ALONG TANGENT AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS.

MODIFIED TYPE "F" CURB AND GUTTER



TYPICAL SIDEWALK DETAIL

SEAL

RUDOLPH A. MALL P.E. 94479  
EB 0008794

FOR BID

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ BTW  
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CHECKED BY \_\_\_\_\_ RAM  
DATE \_\_\_\_\_ JANUARY 2024

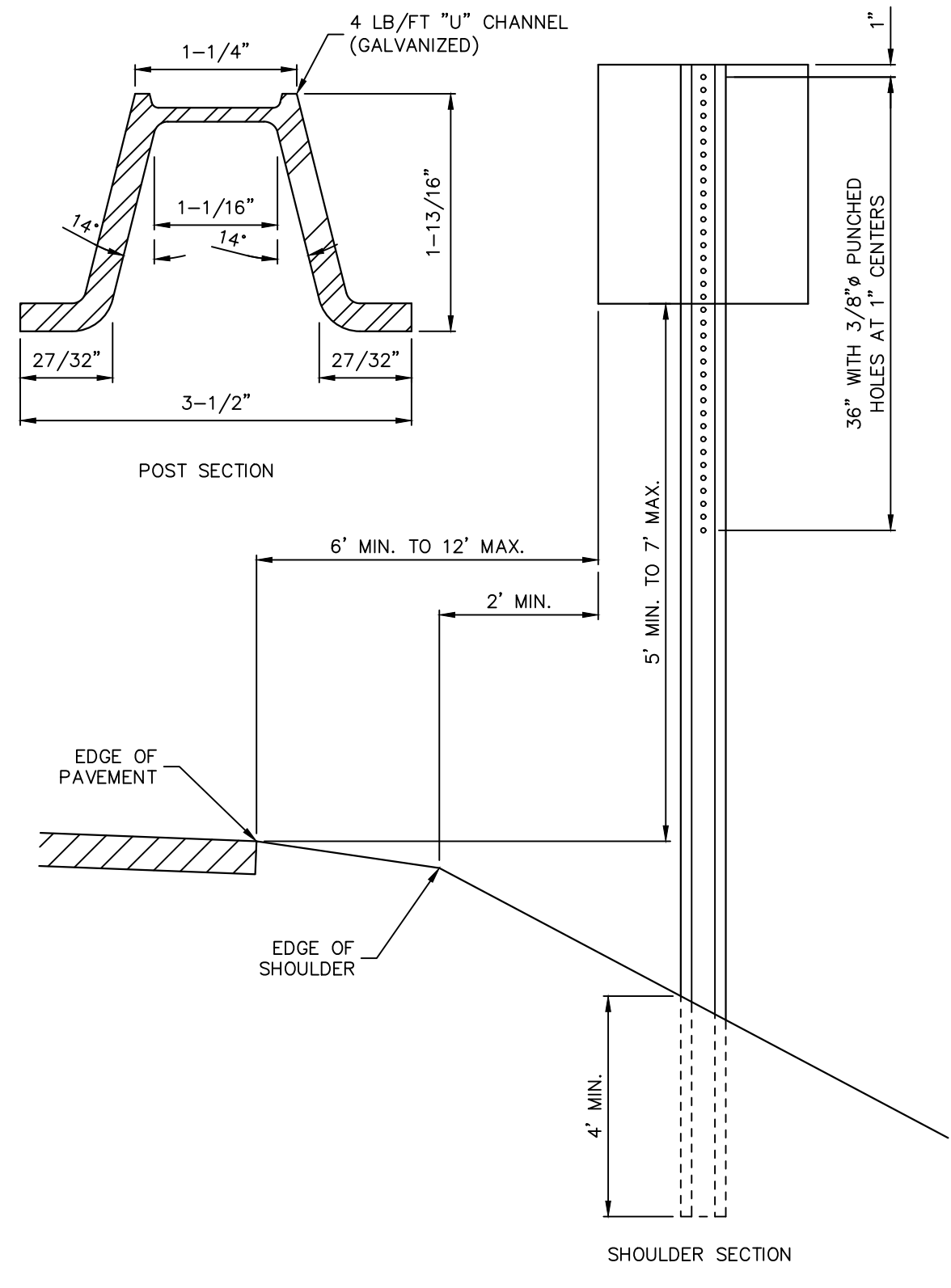
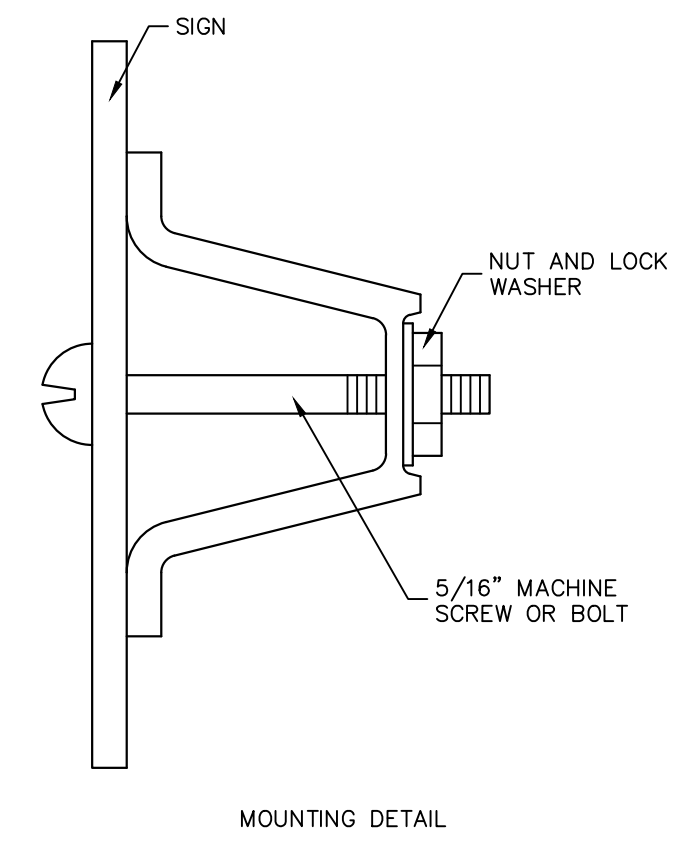
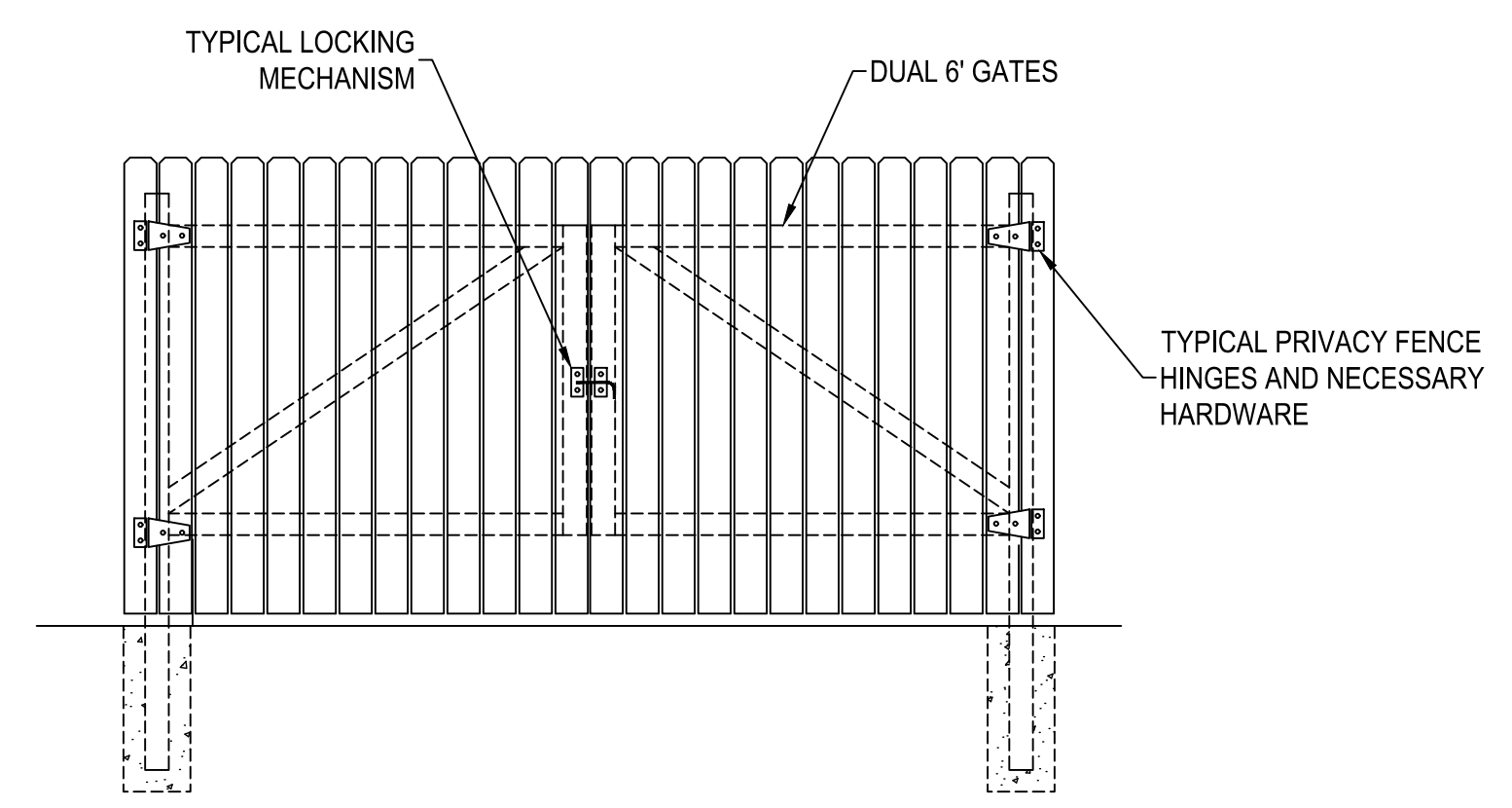
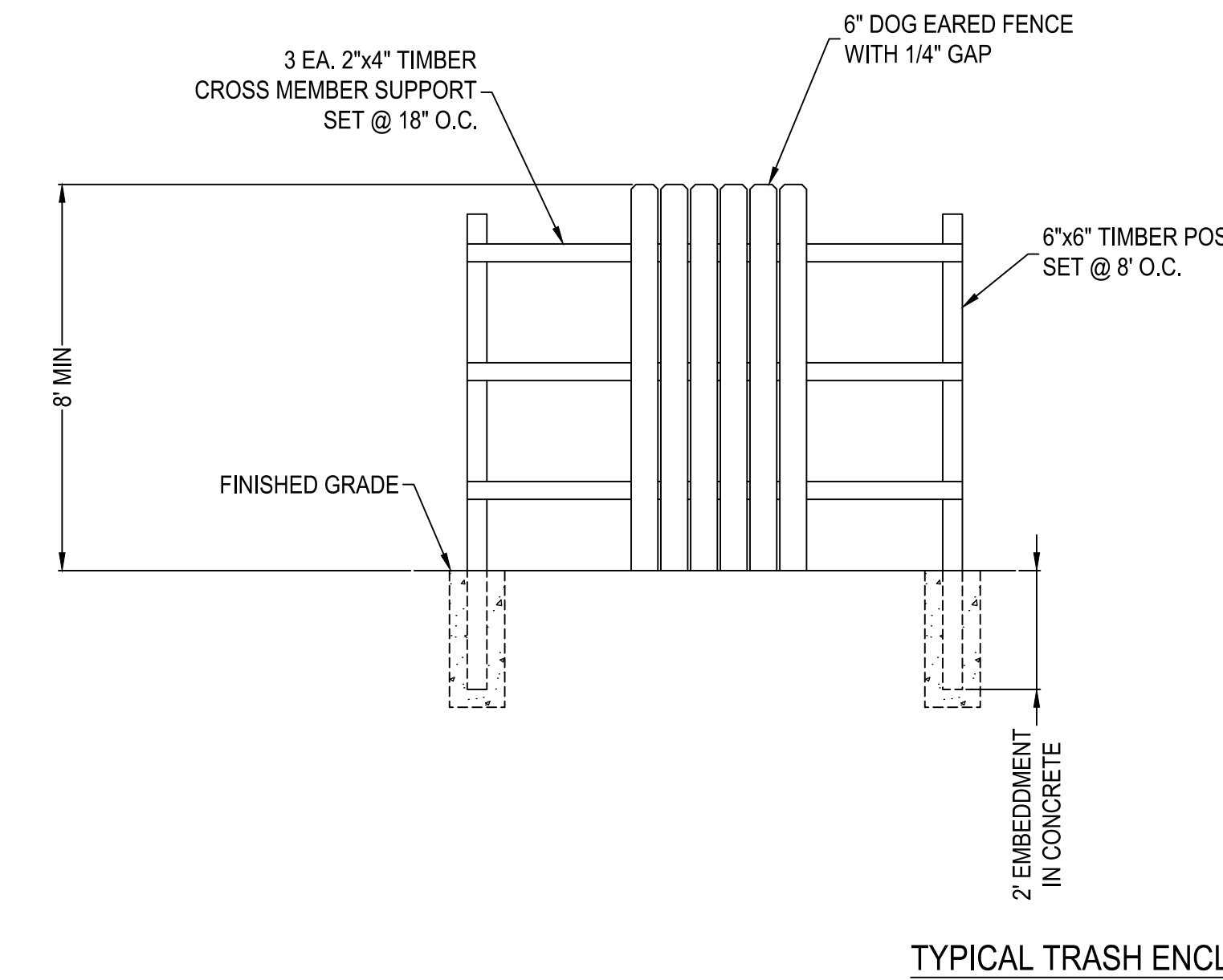
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CONSTRUCTION DETAILS

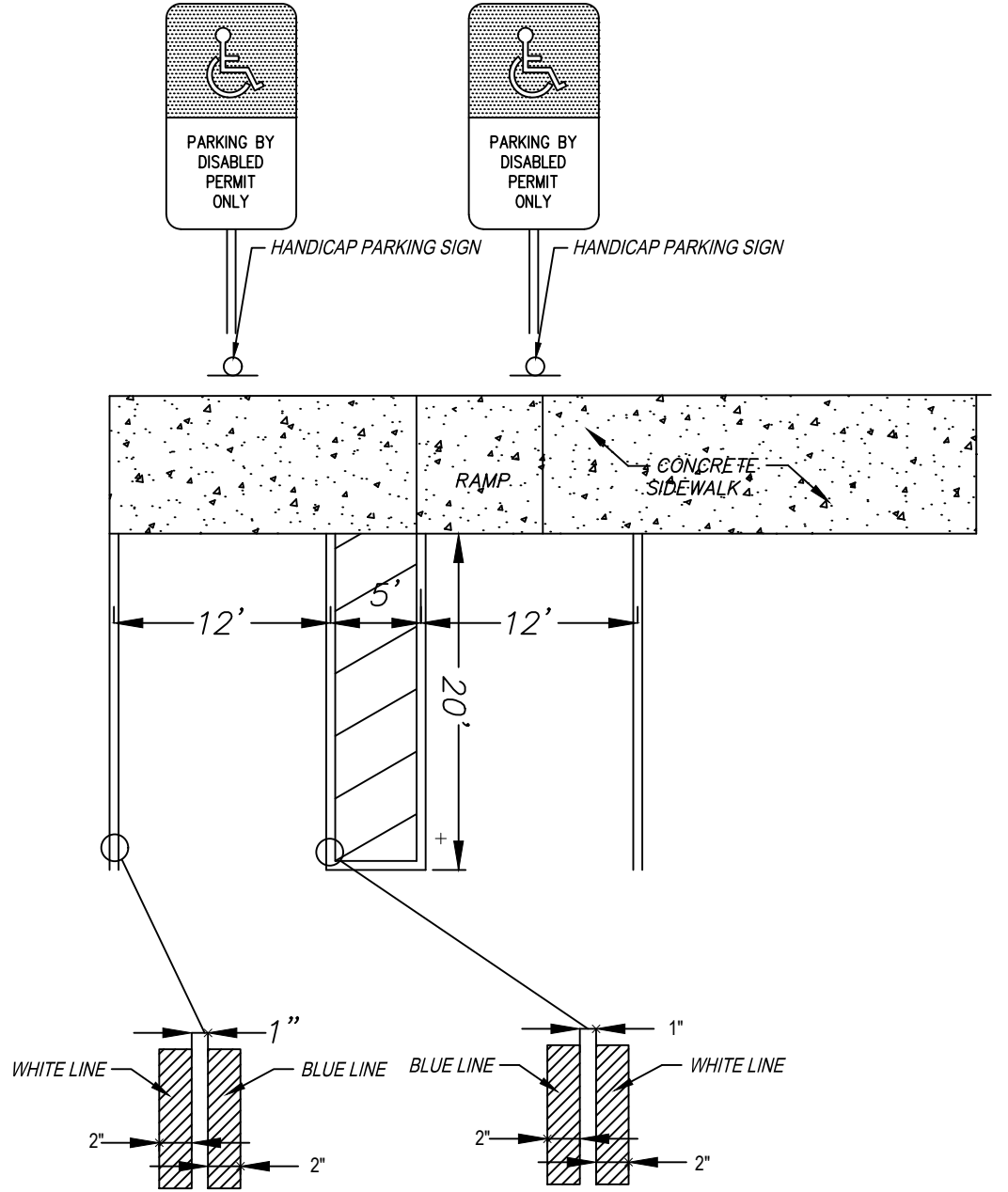
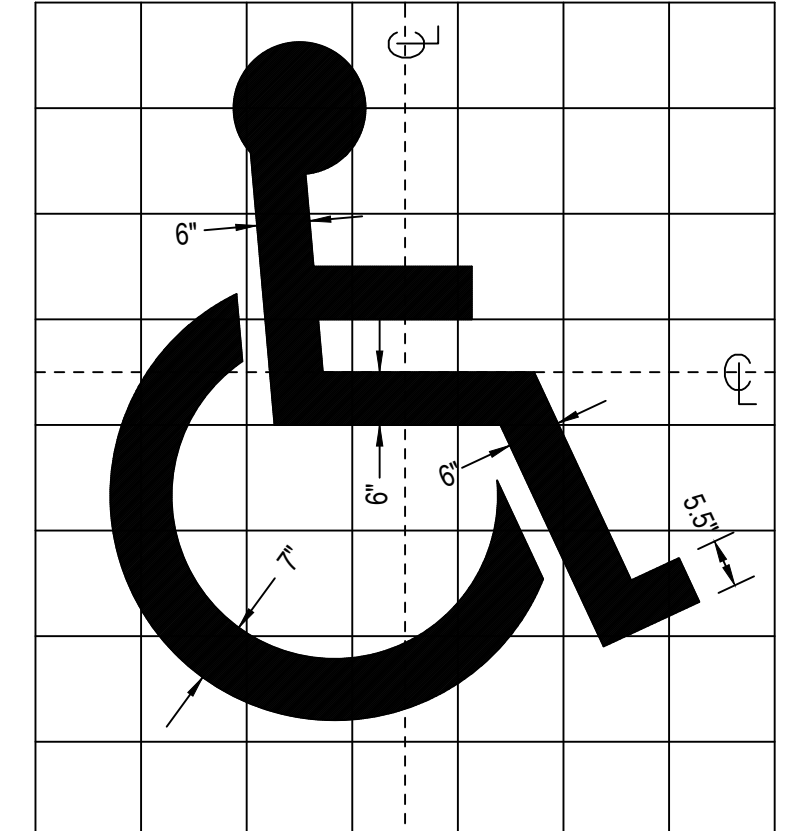
PROJECT NO. 50150622

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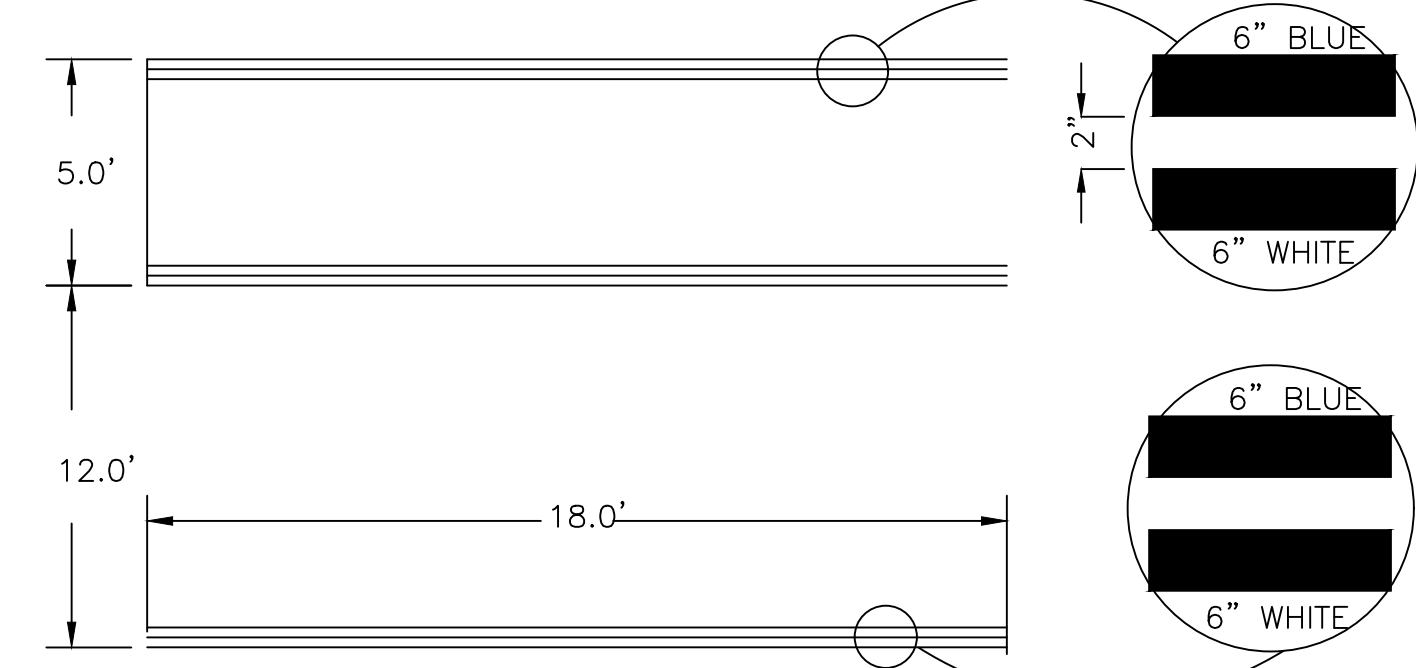
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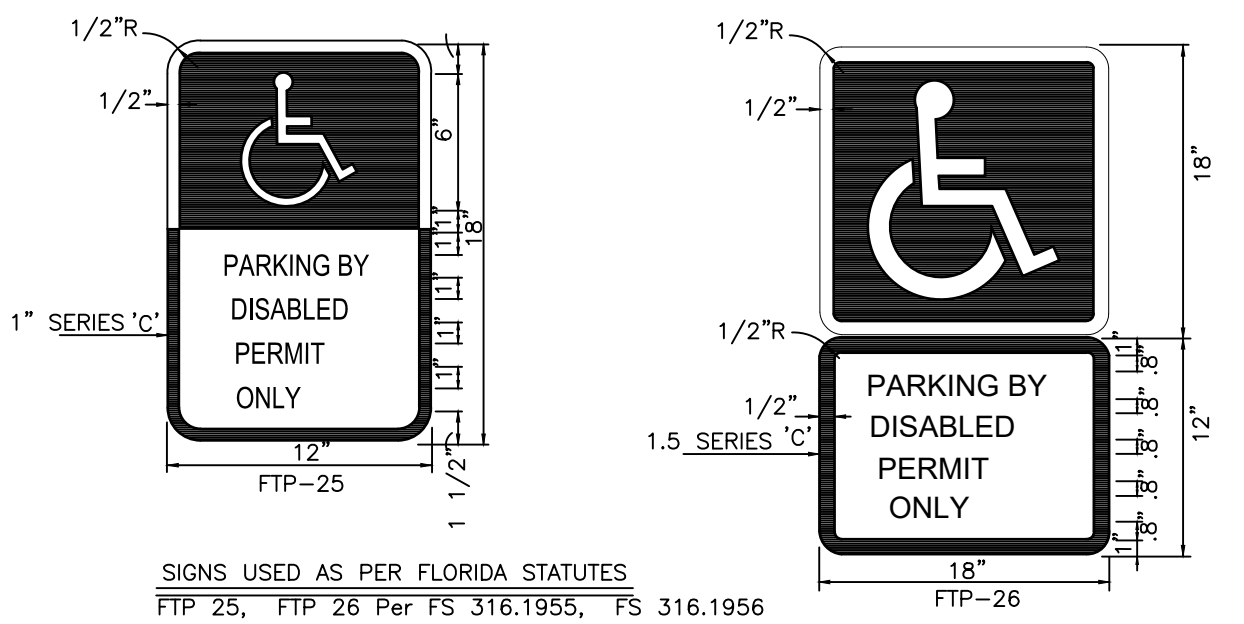
"USE OF PAVEMENT SYMBOL IN HANDICAPPED PARKING SPACES IS OPTIONAL. WHEN USED, THE SYMBOL SHALL BE 3 TO 5 FEET HIGH AND WHITE IN COLOR." (QUOTED FROM SECTION 4.6 OF FLORIDA ACCESSIBILITY BUILDING CODE.)



GENERAL NOTES:  
1.) THE ACCESSIBILITY REQUIREMENTS MANUAL BY THE FLORIDA BOARD OF BUILDING CODES AND STANDARDS WAS REFERENCED FOR THIS HANDICAP ACCESS DESIGN.  
2.) THE MAXIMUM SLOPE FOR A CURB RAMP IS 1:12 OR 8%  
3.) CURB RAMP TO BE CONSTRUCTED PER FDOT INDEX 304 MODIFIED (SINGLE) CR-C.



HANDICAPPED PAVEMENT MARKING  
IN ACCORDANCE W/F.D.O.T. STANDARD INDEX #17346 SHEET 9 OF 9  
N.T.S.



NOTES:  
1. Top portion of FTP 25 & 26 shall have a reflective blue background with white reflective symbol and border.  
2. Bottom portion shall have a reflective white background with black opaque legend and border.  
3. FTP 25 & 26 may be fabricated on one panel or two.  
4. FTP 25 may be substituted for the FTP 26 in areas where space is limited.  
5. Signs are to be mounted at standard height. (7' from pavement to bottom of sign).

VIOLATORS \$250 FINE  
INSTALL BELOW HANDICAP SIGN

HANDICAPPED PARKING SIGN DETAIL  
N.T.S.

2/10/24 8:42:10 AM S:\008454\WALTON COUNTY\50150622\_GLENDALE FIRE STATION\_C01\FOLDER\_PRODUCTON\50150622\_DET.DWG

LANDSCAPE NOTES:

- LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, TV CABLE, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION.
- INSTALL ONLY PLANTS GRADED FLORIDA FANCY OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANTS", PARTS 1 AND 2, INCLUDING REVISIONS WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE.
- PLANT SHRUBS IN CIRCULAR PITS WITH A DIAMETER 36" GREATER THAN ROOTBALL OR CONTAINER.
- FERTILIZE ALL TREES WITH AGRIFORM 21 GRAM TABLETS, SLOW-RELEASE 20-10-50 ANALYSIS WITH ONE TABLET PER 1/2" OF TRUNK DIAMETER.
- TOPDRESS ALL PLANTING BEDS WITH A 4" LAYER OF SANDY-LOAM TOPSOIL. CROWN WITH TOPSOIL ALL PARKING AREA ISLAND PLANTERS TO HEIGHT AS INDICATED ON GRADING PLAN.
- BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE: 1/2 ONSITE SOIL, 1/2 CLEAN FRIABLE SANDY-LOAM TOPSOIL.
- FERTILIZE ALL PLANTING BEDS WITH OSMOCOTE 18-6-12 SLOW RELEASE FERTILIZER AT THE RATE OF 16 POUNDS PER 1,000 SQUARE FEET.
- TREAT PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- MULCH PLANTING BEDS TO A MINIMUM 2" COMPACTED THICKNESS WITH CLEAN SHREDDED PINE BARK, PINE STRAW, OR CYPRESS BARK (A.W.P.A. TYPE A).
- LAY SOD SOLIDLY IN ALL INDICATED AREAS WITH CLOSELY ABUTTING JOINTS, ROLL AND FERTILIZE WITH AGRIFORM 34-0-7 TURFMIX AT THE RATE OF 15 POUNDS PER ACRE.
- VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN.
- ALL LANDSCAPING AREAS TO BE WATERED BY CENTRAL IRRIGATING SYSTEM.
- ALL PLANT MATERIALS SHALL ARRIVE AT THE SITE WITH SOIL MOIST.
- UNDER NO CIRCUMSTANCES WILL LANDSCAPE WORK BE APPROVED FOR PAYMENT IF PLANT SIZE AND GENERAL HEALTH ARE NOT AS REQUIRED ON PLAN.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON PLANT LIST.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED, AND MEET ALL REQUIREMENTS AS SPECIFIED.
- BEFORE ANY PLANTING, LANDSCAPE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNFORESEEN CONDITIONS THAT MAY CONFLICT WITH LANDSCAPE INSTALLATION.
- ALL PLANTING AREAS, AND UNPAVED AREAS ON SITE, MUST BE COMPLETELY MULCHED TO A MINIMUM OF 3" COMPACTED THICKNESS WITH PINE STRAW, CYPRESS BARK OR APPROVED EQUAL.
- SOD SHALL BE LAID SOLIDLY IN ALL AREAS DISTURBED ON CONSTRUCTION. AREAS OF SLOPE GREATER THAN 3:1 SHALL BE STABILIZED PRIOR TO SODDING AND SOD SHALL BE PINNED TO PREVENT EROSION.
- ALL PLANTS, MATERIALS AND WORK PERFORMED ARE SUBJECT TO APPROVALS OF THE ENGINEER AND THE OWNER BEFORE, DURING AND AFTER INSTALLATION.
- THE LANDSCAPE DESIGNER MUST APPROVE ANY ALTERATIONS OR REVISIONS TO THE LANDSCAPE PLAN.
- THE CONTRACTOR SHALL PROTECT EXISTING FEATURES ON SITE.
- THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THESE PLANS, BEFORE PRICING THE WORK.
- THE LANDSCAPE CONTRACTOR SHALL FULLY MAINTAIN PLANTING (INCLUDING BUT NOT LIMITED TO WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) PLANTING AREAS AND LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER. CONTRACTOR SHALL FERTILIZE ALL PLANTING BEDS WITH OSMOCOTE 13-6-6 SLOW-RELEASE FERTILIZER WITH ACTIVATED SLUDGE AT A RATE OF 15 POUNDS PER 1,000 S.F.
- THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR ONE (1) YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION AND SHALL GUARANTEE ALL SODDED SLOPES. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE THE END OF THE GUARANTEE PERIOD (AS PER DIRECTION OF THE OWNER).
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES PRIOR TO TOTAL ACCEPTANCE OF WORK, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- NO SUBSTITUTIONS OR CHANGES SHALL BE MADE TO THE DESIGN WITHOUT APPROVAL BY THE ENGINEER, OWNER AND THE COUNTY.
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FINISHED GRADING OF ALL LANDSCAPE PARKING ISLANDS. FINISHED GRADE IN ISLANDS IS TO BE CROWNED APPROXIMATELY 18" - 24" ABOVE THE TOP OF CURB. SOIL IN THE ISLANDS IS TO BE FREE OF UNSUITABLE MATERIAL AND DEBRIS, I.E. GRAVEL OR ASPHALT.
- IF CONTRACTOR IS UNABLE TO DIG PLANT PITS TO A DEPTH THAT WILL PROVIDE 24" OF SOIL UNDER ROOT BALL DUE TO ROCK, CONTACT ARCHITECT, CIVIL ENGINEER, AND COUNTY HORTICULTURIST IMMEDIATELY.
- IRRIGATION SYSTEM IS TO BE DESIGNED TO ALLOW FOR EXPANSION TO FUTURE DEVELOPMENT AREAS.
- IRRIGATION CONTRACTOR SHALL SUBMIT A SLEEVING PLAN TO ARCHITECT.
- LANDSCAPE CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM THAT PROVIDES 100% COVERAGE TO ALL PLANT MATERIAL. CONTRACTOR SHALL PROVIDE IRRIGATION PIPE LAYOUT AND SPECIFICATIONS FOR APPROVAL BY THE LANDSCAPE DESIGNER.
- ALL PLANT MATERIAL SHALL BE DROUGHT AND SALT TOLERANT.

VEHICULAR USE AREA LANDSCAPE REQUIREMENTS:

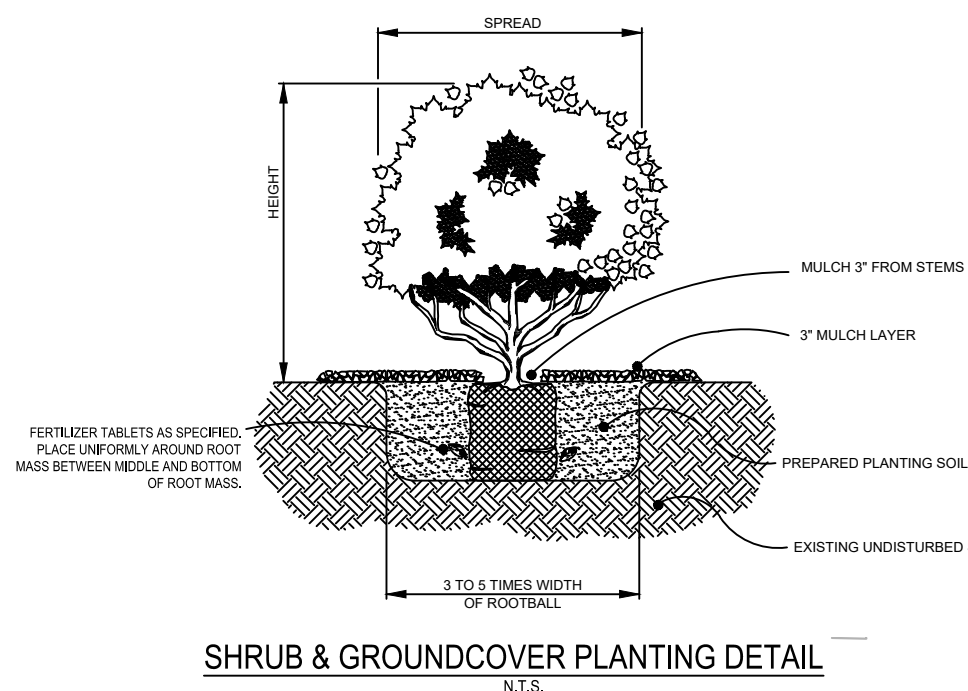
VEHICULAR USE AREA = 30,913 SF  
 REQUIRED LANDSCAPE AREA FOR SURFACE PARKING (10% VEHICLE USE AREA) = 30,913 x 0.1 = 3,091 SF  
 PROVIDED LANDSCAPE AREA FOR SURFACE PARKING = 7,300 SF  
 PLANTING REQUIRED = N/A  
 PLANTING PROVIDED = CANOPY (8), UNDERSTORY (6), SHRUB (36)

LANDSCAPE BUFFER REQUIREMENTS:

STREET FRONTAGES: NO BUFFER REQUIRED (NORTH WALTON COUNTY)  
 NORTH : NO BUFFER REQUIRED (LDC SECTION 5.01.08(D)(10) TABLE 5-3)

FOUNDATION PLANTING REQUIREMENTS:

SHRUBS REQUIRED = 37 (1 SHRUB / 5 FT X 185' = 37 SHRUBS)  
 SHRUBS PROVIDED = 37



ALL SHADE OR CANOPY TREES TO BE: (MIN. 3" CALIPER)

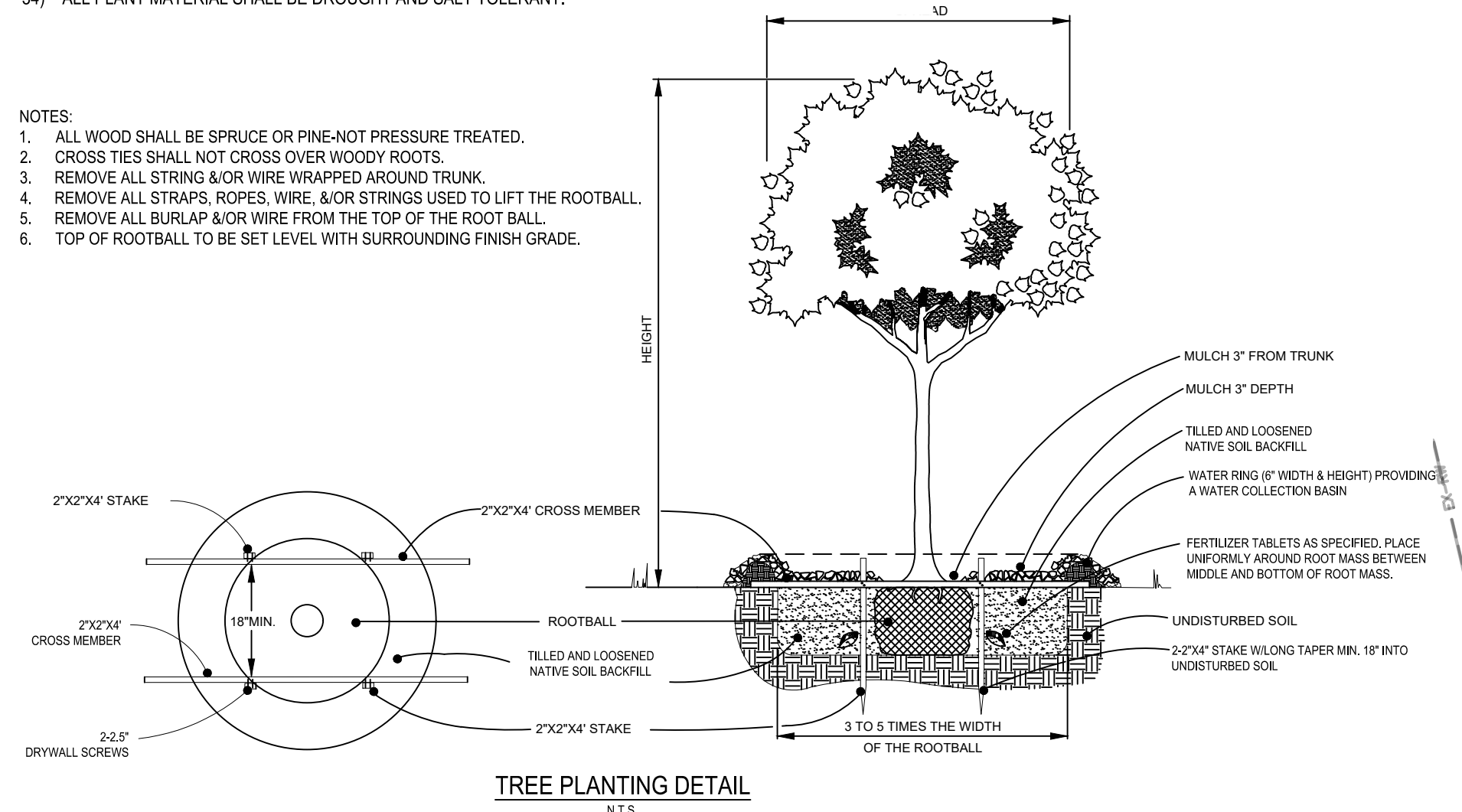
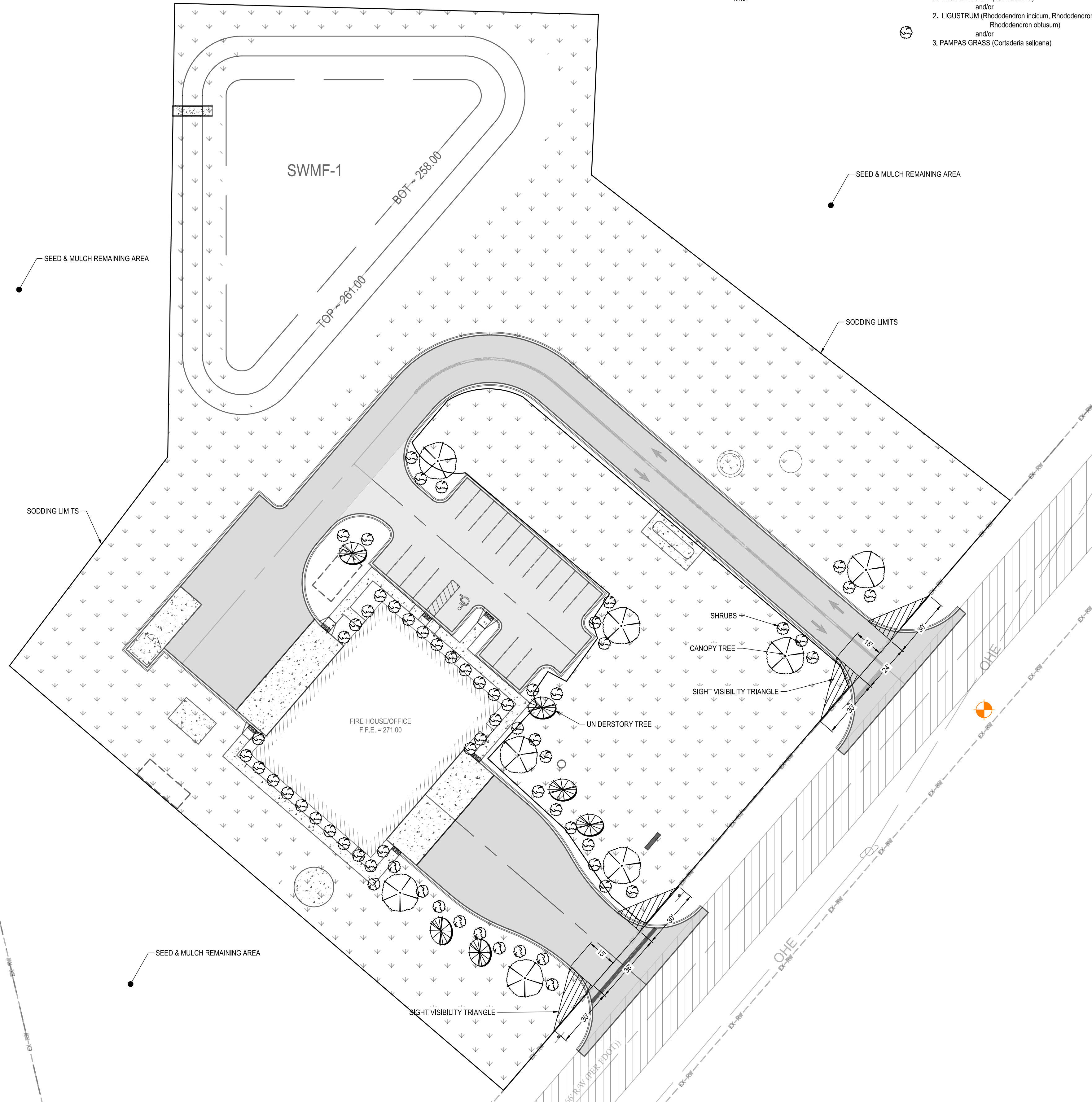
- HICKORY (Carya spp.) and/or
- SWEET GUM (Liquidambar styraciflua) and/or
- LIVE OAK (Quercus virginiana)

ALL UNDERSTORY TREES TO BE: (MIN. #15 CONTAINER)

- SMOOTH REDBAY (Persea borbonia) and/or
- CREPE MYRTLE (Lagerstroemia indica) WATERMELON RED and/or
- FLOWERING DOGWOOD (Cornus florida)

ALL SHRUBBERY PLANTS TO BE: (MIN. #3 CONTAINER)

- YALUPON HOLLY (Ilex vomitoria) and/or
- LIGUSTRUM (Rhododendron indicum, Rhododendron simsii, Rhododendron obtusum) and/or
- PAMPAS GRASS (Cortaderia sellonana)



SPECIAL NOTE TO CONTRACTOR(S):  
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE. ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DO NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

**Dewberry**  
 877 CR 393 North  
 Santa Rosa Beach, FL 32459  
 850.267.0759

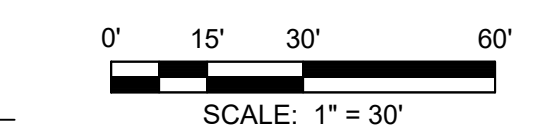
GLENDALE FIRE STATION  
 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA

SEAL

RUDOLPH A. MALL P.E. 94479  
 EB 0008794

FOR BID

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ BTW  
 APPROVED BY \_\_\_\_\_ BTW  
 CHECKED BY \_\_\_\_\_ RAM  
 DATE \_\_\_\_\_ JANUARY 2024

TITLE  
**LANDSCAPE PLAN**

PROJECT NO. \_\_\_\_\_ 50150622

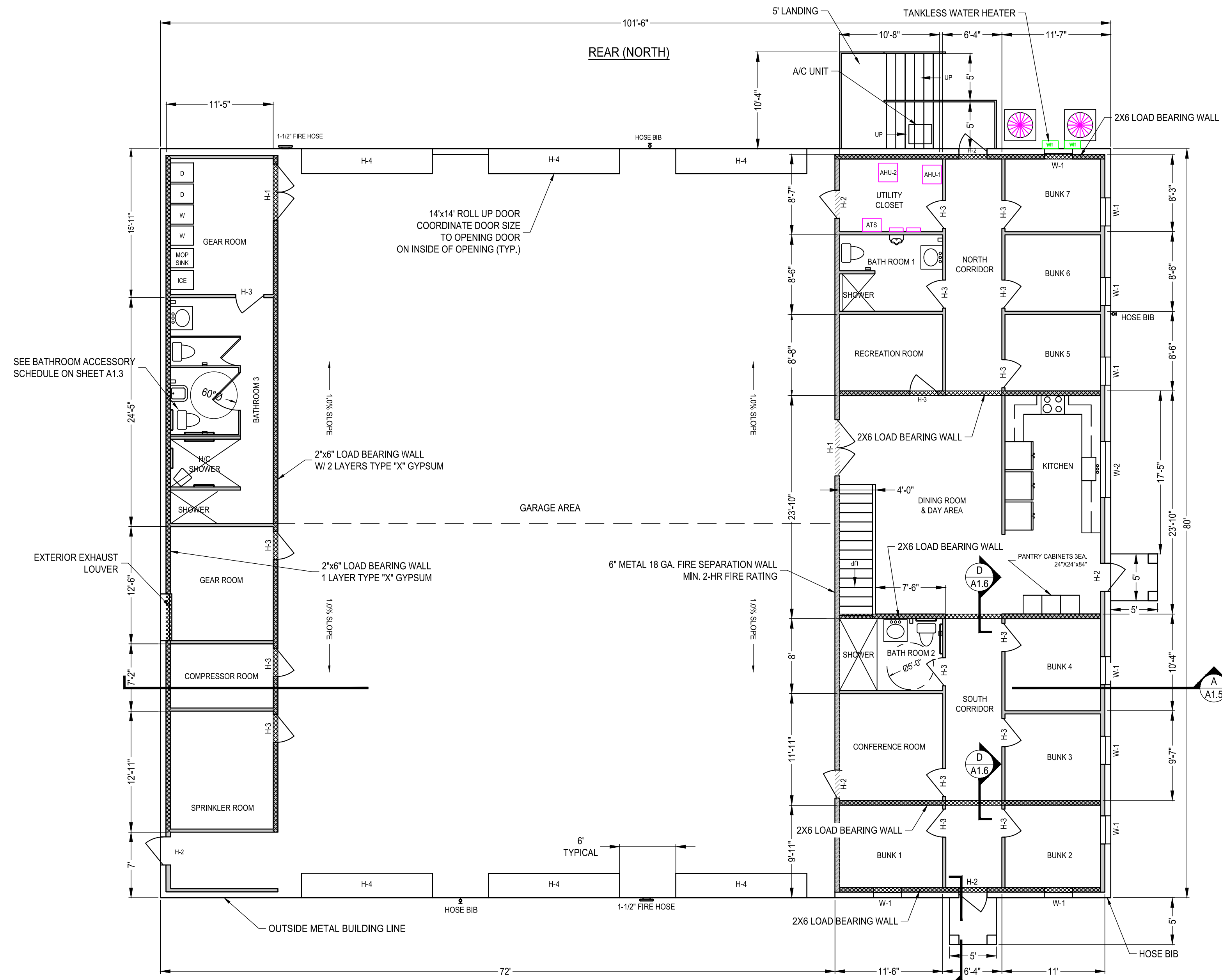
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- DESIGN NOTES:  
THE DESIGN SHALL BE TO THE FOLLOWING ADDITIONAL SPECIFICATIONS:
- ADA COMPLIANT
  - SPRINKLER SYSTEM IN ACCORDANCE WITH CURRENT CODE REQUIREMENT
  - NAVEN NPE-240A2 WATER SYSTEM
  - ENERGY STAR APPLIANCES
  - HIGH R VALUE INSULATION
  - HIGH EFFICIENCY LIGHTING WITH OCCUPANCY SENSORS
  - HIGH "RR" DOUBLE INSULATED STORM WINDOWS



FIRST FLOOR PLAN  
FRONT (SOUTH)

WINDOW SCHEDULE

WINDOW NUMBER	SIZE	MATERIAL	GLAZING TYPE	GLAZING TEMP	GLAZING IMPACT	FRAME FINISH	FRAME MATERIAL
W-1	3'-0" X 5'-0"	ALUM.	INSULATED	YES	YES	FACTORY FINISH	ALUM.
W-2	6'-0" X 3'-0"	ALUM.	INSULATED	YES	YES	FACTORY FINISH	ALUM.

DOOR SCHEDULE

DOOR NUMBER	TYPE	WIDTH	HEIGHT	THICKNESS	DOOR MATERIAL	FRAME MATERIAL	GLASS	FIRE RATING	HARDWARE
H-1	FLUSH	PR 3'-2"	7'-0"	1-3/4"	STEEL	STEEL	NONE	90 MINUTE	LOCKING LATCH SET, CLOSERS, FLOOR STOPS
H-2	FLUSH	3'-0"	7'-0"	1-3/4"	STEEL	STEEL	DSB	-	LOCKING LATCH SET, CLOSERS, FLOOR STOPS
H-3	FLUSH	3'-0"	7'-0"	1-3/4"	WOOD	WOOD	NONE	90 MINUTE	LOCKING LATCH SET, CLOSERS, FLOOR STOPS
H-4	PER MFG	14'-0"	14'-0"	PER MFG	PER MFG	PER MFG	DSB	-	PER SPECIFICATIONS

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR MATL.	BASE	WALLS	CEILING MATL.	CEILING HEIGHT
BUNKS (1-7)	EPOXY	P.B.	PT.	GYP.	9'-0"
CONF. ROOM	EPOXY	P.B.	PT.	GYP.	9'-0"
CORRIDORS	EPOXY	P.B.	PT.	GYP.	9'-0"
REC. ROOM	EPOXY	P.B.	PT.	GYP.	9'-0"
DINING ROOM/KITCH.	EPOXY	P.B.	PT.	GYP.	9'-0"
UTILITY CLOSET	EPOXY	P.B.	PT.	GYP.	9'-0"
GARAGE	S.C.	P.B.	PT.	EXP.	VARIES
GEAR ROOM	S.C.	P.B.	PT.	GYP.	9'-0"
COMP. ROOM	S.C.	P.B.	PT.	GYP.	9'-0"
SPRINK. ROOM	S.C.	P.B.	PT.	GYP.	9'-0"
BATHROOM #3	EPOXY	P.B.	PT.	GYP.	9'-0"
BATHROOM #1	EPOXY	P.B.	PT.	GYP.	9'-0"
BATHROOM #2	EPOXY	P.B.	PT.	GYP.	9'-0"
2ND FLOOR OPEN AREA	UNF.	N/A	PT.	EXP.	8'-0"

PT. = PAINTED SHEET ROCK  
EXP. = EXPOSED  
UNF. = UNFINISHED

GYP. = TYPE X GYPSUM BOARD  
ACT. = ACOUSTIC TILE DROP CEILING

EPOXY = EPOXY COATED CONCRETE  
S.C. = SEALED CONCRETE  
CT. = CERAMIC TILE

CTB. = CERAMIC TILE BASE  
P.B. = 6" PINE BASE

GLENDALE FIRE STATION  
CODE SUMMARY:

BUILDING AREA  
FIRST FLOOR: 8,120 SF

OCCUPANCY CLASSIFICATION:  
R-3 RESIDENTIAL NOT MORE THAN 2 D.U.  
H-3 HIGH HAZARD, FLAMMABLE LIQUID IN EXCESS OF 120 GAL.  
B BUSINESS OFFICES

MIXED USE AND OCCUPANCY AREAS:  
RESIDENTIAL (R-3): 2,200 SF  
BUSINESS (B): 600 SF  
HIGH HAZARD (H-3): 5,320 SF

ALLOWABLE AREAS:  
RESIDENTIAL (R-3): UNLIMITED  
BUSINESS (B): 23,000 SF  
HIGH HAZARD (H-3): 14,000 SF

FBC 2017 REF.  
310.1  
307  
TABLE 307.1  
304.1  
508  
TABLE 506.2

MEANS OF EGRESS  
OCCUPANT LOAD  
TABLE 1004.1.2  
RESIDENTIAL: 200 GROSS  
BUSINESS: 100 GROSS  
PARKING GARAGES: 200 GROSS

OCCUPANTS BY SF AREA:  
R-3: 2200/200 = 11  
B: 600/100 = 6  
PARKING GARAGE: UNOCCUPIED AREA  
ATTIC: UNOCCUPIED AREA

PLUMBING FIXTURES  
R-3: 2 WC, MALE/FEMALE 1/10  
LAV: MALE/FEMALE 1/0  
SHR: 1/8  
DF: 1/100  
B: WC MALE/FEMALE, 1/25  
LAV: MALE/FEMALE, 1/10  
DF: 1/100

SEPARATED OCCUPANCIES:  
SEPARATED OCCUPANCIES REQUIRED PER 508.4

REQUIRED SEPARATIONS:  
BETWEEN H-3 AND R: 2 HR.  
BETWEEN H-3 AND B: 1 HR.  
BETWEEN B AND R: 1 HR.

CONSTRUCTION CLASSIFICATION: TYPE III(B)  
STRUCTURAL FRAME: 1 HR.  
EXTERIOR BUILDING WALLS: 0 HR.  
INTERIOR BEARING WALLS: 0 HR.  
EXTERIOR NON-BEARING WALLS: 0 HR.  
INTERIOR NON-BEARING WALLS: 0 HR.  
FLOOR CONSTRUCTION: 0 HR.  
ROOF CONSTRUCTION: 0 HR.

FIRE PROTECTION SYSTEMS:  
AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA

CONCEALED SPACES  
DRAFTSTOPPING IN FLOORS, R-3, NOT REQUIRED W/SPRINKLER  
DRAFTSTOPPING IN ATTIC, R-3, NOT REQUIRED W/SPRINKLER  
OTHER GROUPS NOT REQUIRED W/SPRINKLER

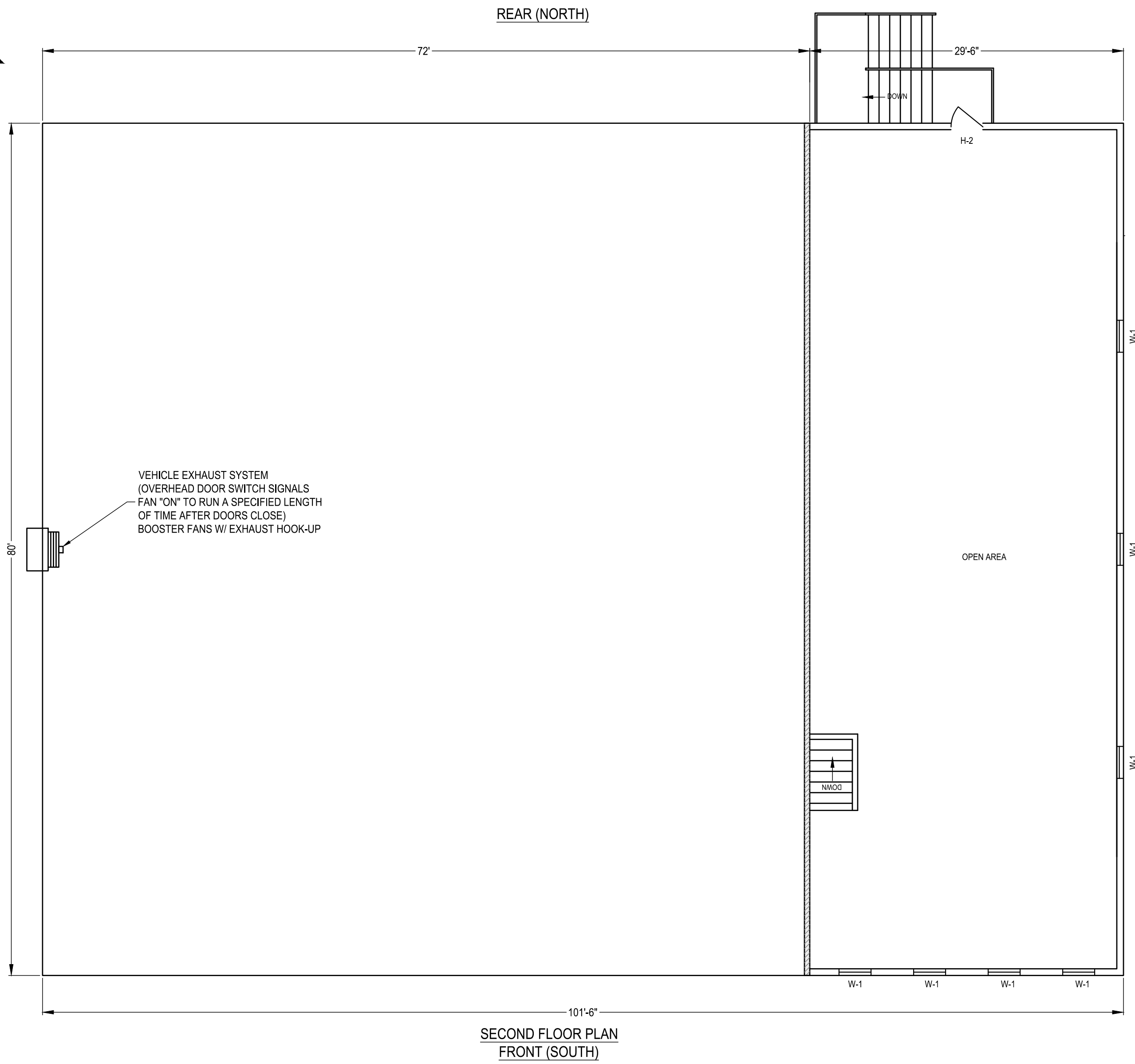
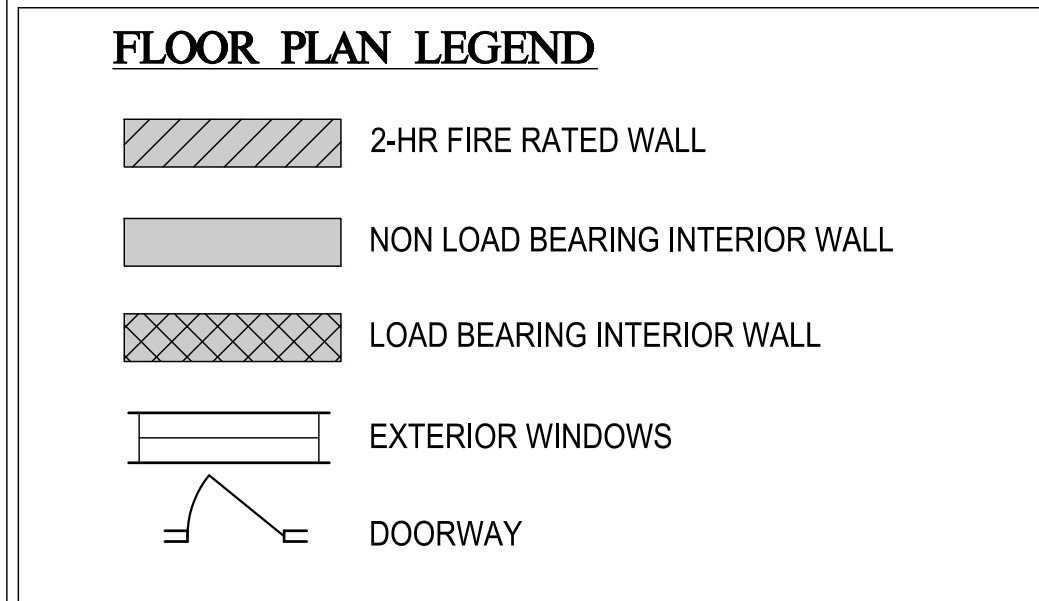
TABLE 508.4  
TABLE 601  
TABLE 602  
TABLE 602  
903  
903.2.8  
718  
718.3.2  
718.4.2

REQUIRED:	WC	LAV	SJR.	DF	SS
R-36M/6F	1	1	1	1	1
B*	3	2	2	1	
TOTAL:	3	2	2	1	

\* - SEPARATE FACILITIES NOT REQUIRED IN A BUSINESS OCCUPANCY < 3000 SF

INTERIOR FINISHES:

	EXITS	CORRIDORS	ROOMS	TABLE 803.11
R-3	C	B	C	
B	B	B	C	
H	B	B	B	



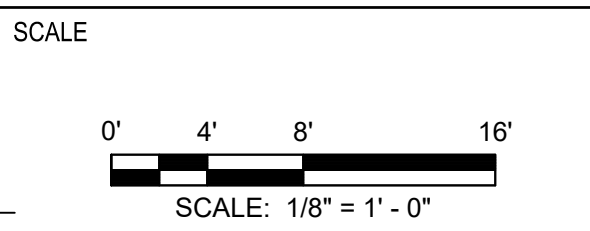
SECOND FLOOR PLAN  
FRONT (SOUTH)

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FLORIDA

CLIFFORD L. KNAUER, P.E. 53930  
EB 0008794

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REVISIONS

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APPROVED BY: BTW  
CHECKED BY: RAM  
DATE: JANUARY 2024

TITLE  
**FLOOR PLAN**

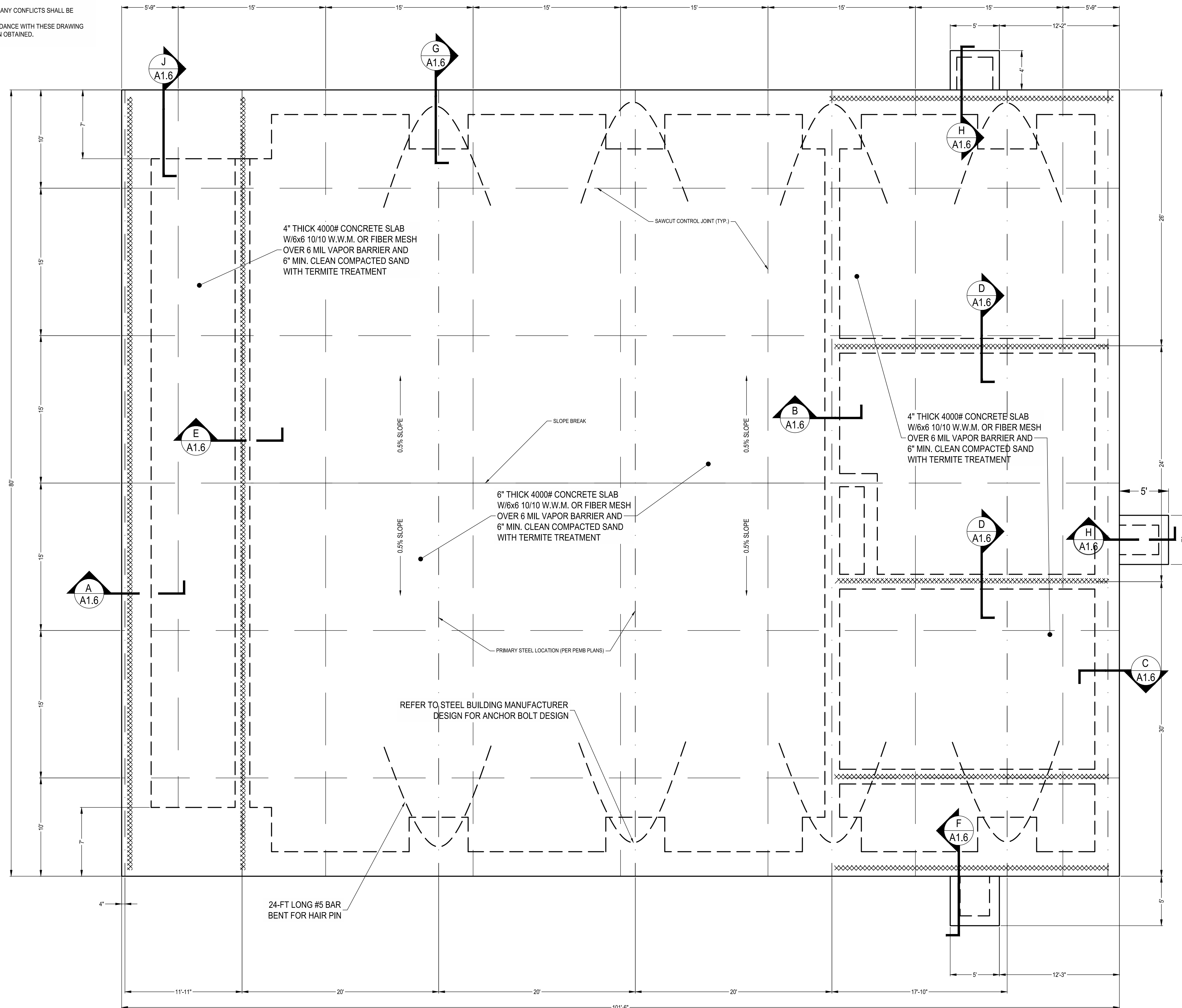
PROJECT NO. 50150622

A1.1

SHEET NO.

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- FOUNDATION CONSTRUCTION NOTES:
1. CONTRACTOR SHALL SELECT METAL BUILDING AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
  2. FOUNDATION DESIGN WILL BE VERIFIED AFTER SUBMISSION OF REACTIONS FROM METAL BUILDING SUPPLIER.
  3. METAL BUILDING SHALL BE DESIGNED TO WITHSTAND 140 MPH 2 SECOND GUST.
  4. FOUNDATION DESIGN BASED UPON SOIL WITH 1500 PSF BEARING CAPACITY WITH NO ORGANICS OR EXPANSIVE CLAYS.
  5. CONCRETE 4000 PSI 28 DAY STRENGTH STEEL GRADE 40 OR 60.
  6. ALL FILL SHALL BE COMPACTED TO 95% OF MAX. DRY DENSITY MODIFIED PROCTOR.
  7. ALL LAP SPLICES IN FOOTING STEEL SHALL BE LAPPED A MIN. 24 BAR DIAMETERS.
  8. EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND PERIMETER OF STRUCTURE TO ASSURE CONTINUITY.
  9. REINFORCEMENT STEEL SHALL BE PLACED A MIN. OF 3" FROM CONCRETE SURFACE THROUGHOUT.
  10. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED 5 FEET IN ALL DIRECTIONS - SEE PLAN.
  11. SOILS SHALL BE CHEMICALLY TREATED FOR TERMITES.
  12. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CODES IN THE EVENT OF CONFLICT BETWEEN PLANS AND CODES THE CODES SHALL GOVERN.
  13. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
  14. THE OWNER IS RESPONSIBLE FOR THE SUPERVISION AND COMPLETION OF THE PROJECT IN ACCORDANCE WITH THESE DRAWING AND ALL APPLICABLE PERMITS. NO WORK SHALL BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN OBTAINED.
  15. ALL CMU SHALL BE N-12 SPLIT FACE BLOCK WITH 3000 PSI PUMP MIX FILLED CELLS



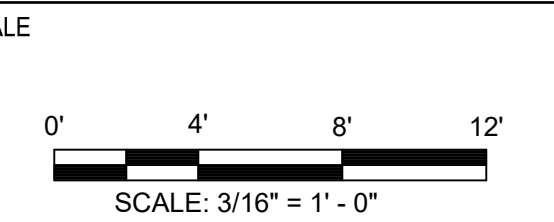
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 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA

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REVISIONS

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CHECKED BY	RAM	
DATE	JANUARY 2024	

TITLE  
**FOUNDATION PLAN**

PROJECT NO. 50150622

**A1.2**

SHEET NO.

3/10/2024 1:23:30 PM S:\008541\WALTON COUNTY\50150622\_GLENDALE FIRE STATION\_CIVIL\FOLDER\_PRODUCT\05150622\_ARCH.DWG

- APPLICABLE CODES:
1. FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB) 2017 EDITION
  2. FLORIDA BUILDING CODE, BUILDING (FBC-B) 2017 EDITION
  3. FLORIDA BUILDING CODE, MECHANICAL (FBC-M) 2017 EDITION
  4. FLORIDA BUILDING CODE, FUEL GAS (FBC-FG) 2017 EDITION
  5. FLORIDA BUILDING CODE, PLUMBING (FBC-P) 2017 EDITION
  6. FLORIDA FIRE PREVENTION CODE, (FFPC) 2017 EDITION
  7. NATIONAL ELECTRICAL CODE (NEC) 2017 EDITION

OCCUPANCY CLASSIFICATION: R-2  
 TYPE OF CONSTRUCTION: TYPE III  
 BUILDING AREA SQ. FT. 101.5x80' - 8120 GROSS

SHALLOW FOUNDATIONS:

1. FOOTING SIZES AND REINFORCING ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEOTECHNICAL REPORT BY MAGNUM ENGINEERING SIGNED AND SEALED DATED JANUARY 29, 2019.

2. SUBGRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED SOILS ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT HAVE BEEN FOLLOWED.

3. TOP OF ALL FOOTINGS IS NOTED ON THE DRAWINGS.

CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BOLTS, THREADED BARS & ANCHOR BOLTS:

1. USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAIL POWER-FAST SYSTEM, HILTI HIT HY150, ITW RAMSEY/RED HEAD EPON AT OR CG INJECTION SYSTEM, ALLIED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.

2. CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" Ø PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

3. DRILL 1/16" LARGER Ø HOLE THAN ANCHOR BOLT AND 1/8" LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.

4. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

NOTE:

FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

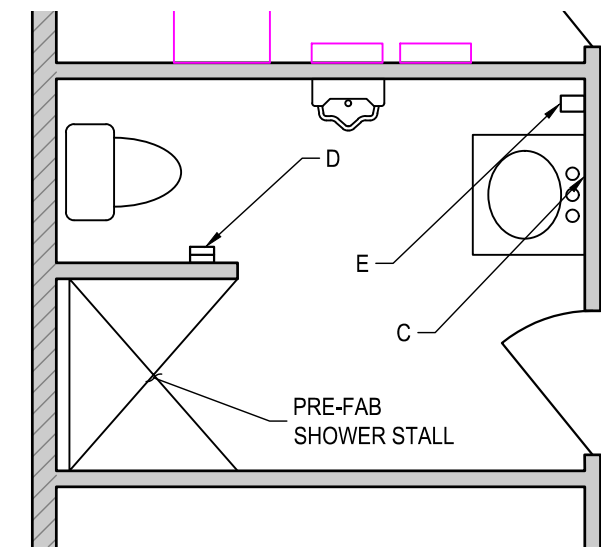
WIND LOAD DESIGN CRITERIA

GOVERNING CODE - ASCE 7-10  
 BUILDING TYPE - ENCLOSED  
 BUILDING CATEGORY - IV  
 EXPOSURE CATEGORY - B  
 BASIC WIND SPEED - V = 160 MPH  
 MEAN ROOF HEIGHT - 25'-8"  
 $K_z/K_{zt}/K_d = 0.70 / 1.00 / 0.85$   
 INTERNAL PRESSURE COEFFICIENT - GCPI ±0.18

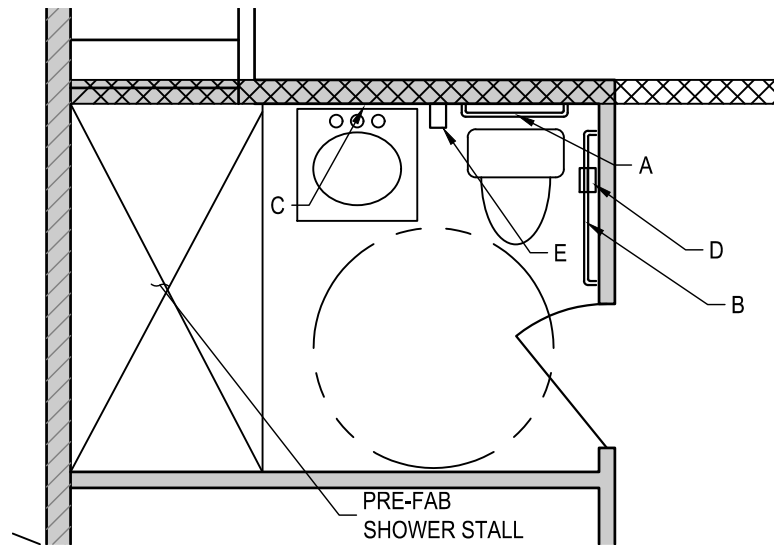
HEADER SCHEDULE	HEADER NO.	WALL TYPE	BEARING LENGTH	BEAM CONSTRUCTION OR STEEL REINFORCEMENT	STUD PACK
H-1		WOOD	6" MIN.	2 EA. 2x10' W. 1/2" PLWD.	4 MIN.

RESTROOM ACCESSORY SCHEDULE

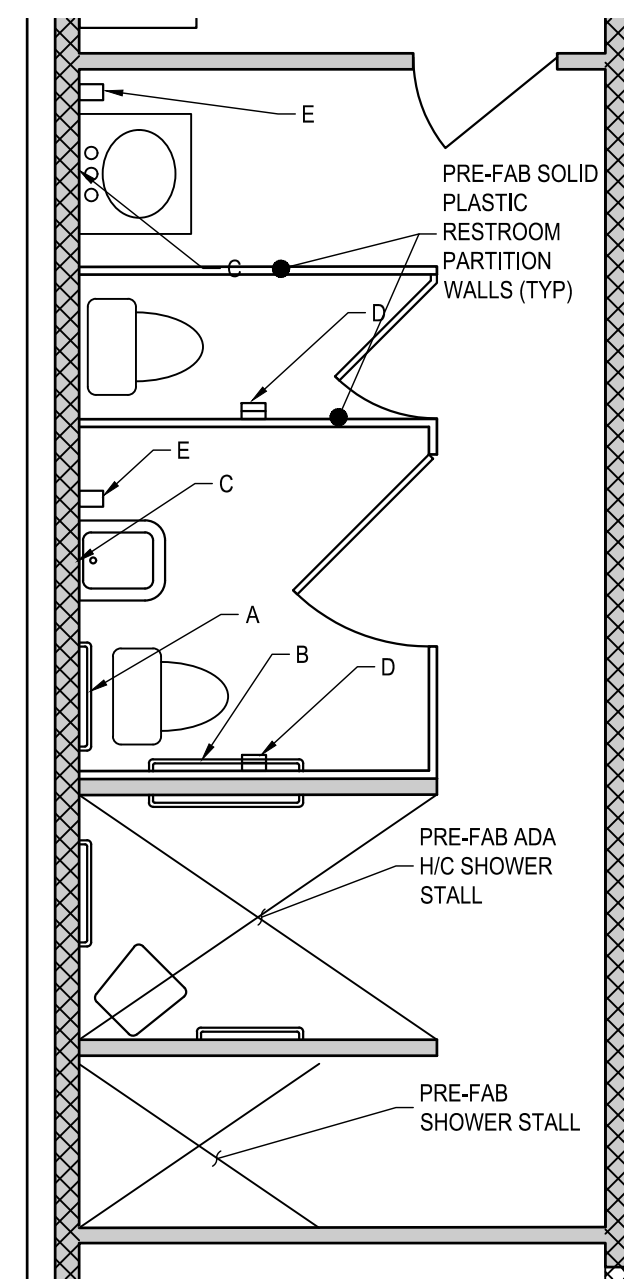
ID	DESCRIPTION	MANUFACTURER	MOUNTING HEIGHT	MATERIAL DESCRIPTION
A	38" L, 1-1/2" DIAMETER GRAB BAR	BOBRICK	33" TO TOP	TYPE 304, 18 GA. SS. SATIN FINISH W/ 3-1/4" DIAM. FLANGE, 3/8" DEEP, 22 GA W/ CONCEALED ANCHOR PLATE
B	42" L, 1-1/2" DIAMETER GRAB BAR	BOBRICK	33" TO TOP	TYPE 304, 18 GA. SS. SATIN FINISH W/ 3-1/4" DIAM. FLANGE, 3/8" DEEP, 22 GA W/ CONCEALED ANCHOR PLATE
C	SURFACE MOUNTED MIRROR 18"Wx30"H	BRADLEY	1/2" ABOVE SINK BACKSPLASH	FRAMED W/ 1 PIECE, ROLLED-FORMED SS W/ 3/8" FACE AND MITERED END CORNERS. DOUBLE STRENGTH CONTINUOUS INTEGRAL STIFFENER ALL SIDES.
D	WALL MOUNTED TOILET PAPER DISPENSER	SCOTT	19" TO BOT	DURABLE PLASTIC BODY W/ SMOKED TRANSPARENT COVER, DISPENSES (2) FULL 9.38" DIAMETER ROLLS.
E	SURFACE MOUNTED SOAP DISPENSER	N/A	N/A	N/A



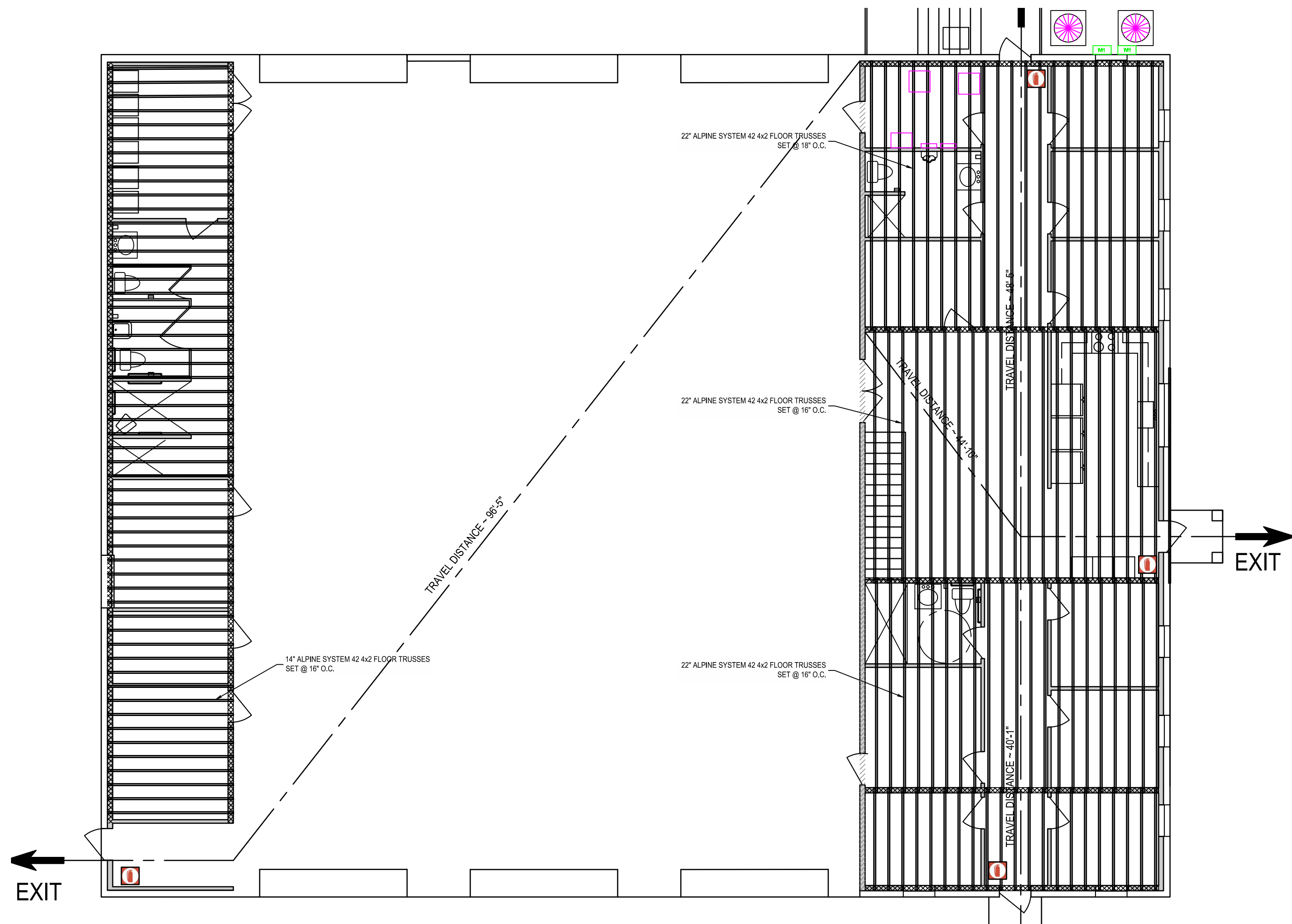
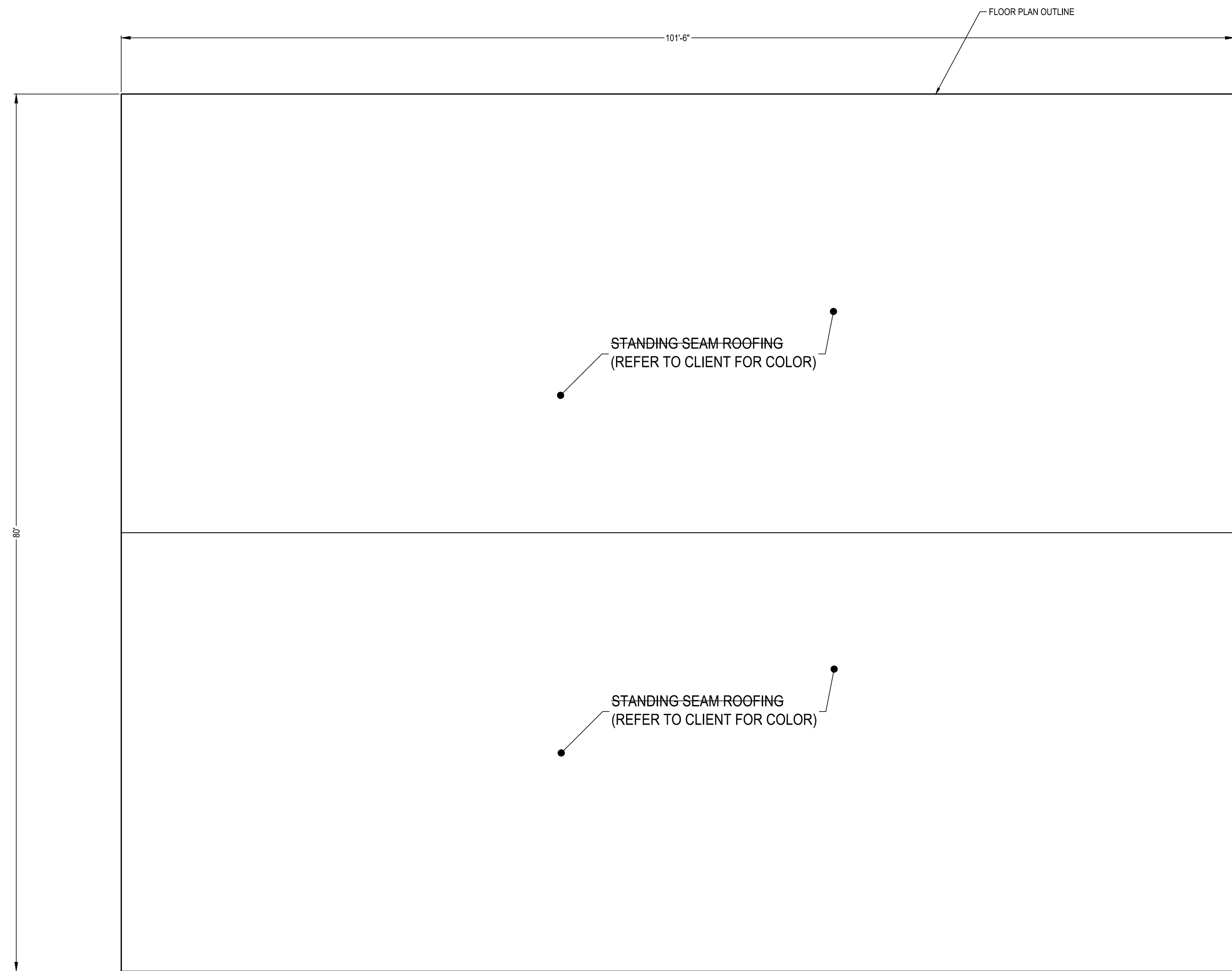
BATH ROOM 1 - LAYOUT



BATH ROOM 2 - LAYOUT



BATH ROOM 3 - LAYOUT



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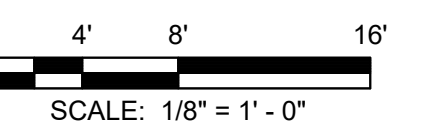
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 EB 0008794

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REVISIONS

NO.	DESCRIPTION	DATE

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 APPROVED BY \_\_\_\_\_ BTW  
 CHECKED BY \_\_\_\_\_ RAM  
 DATE \_\_\_\_\_ JANUARY 2024

TITLE

ROOF AND TRUSS  
 PLAN

PROJECT NO. \_\_\_\_\_ 50150622

A1.3

SHEET NO.

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4

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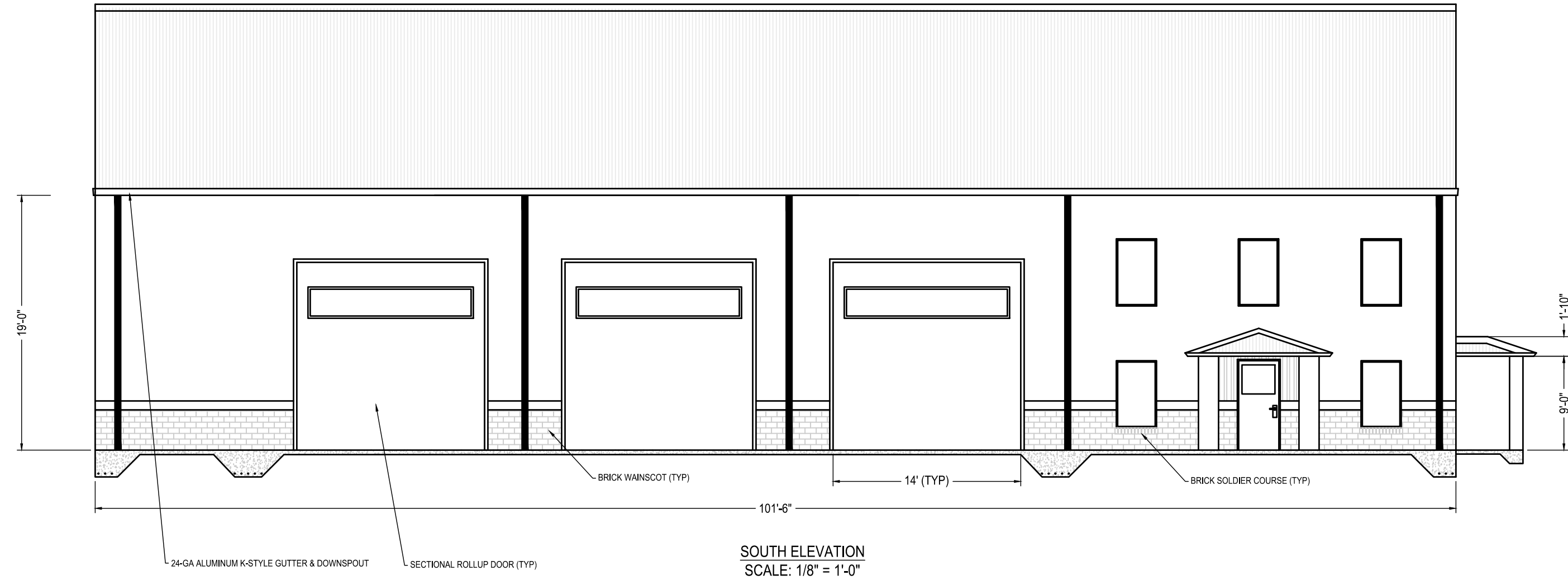
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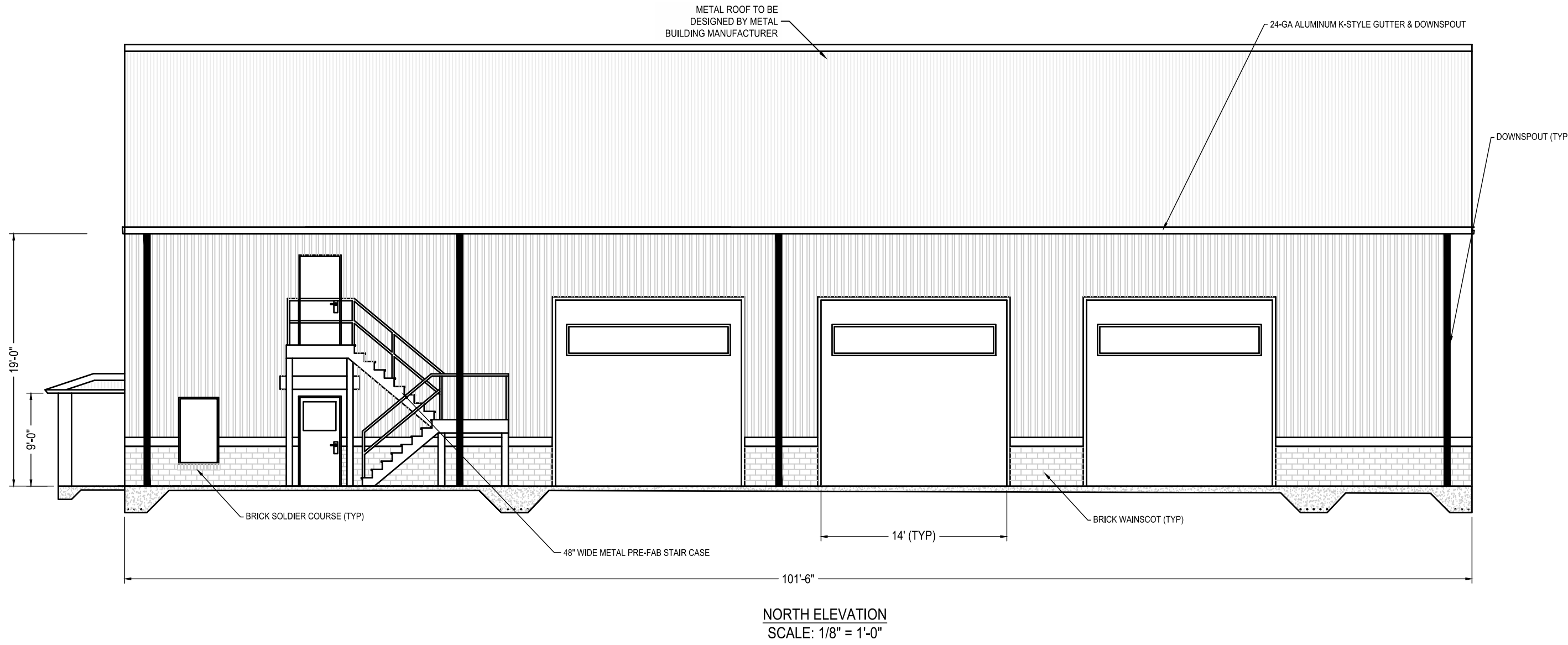
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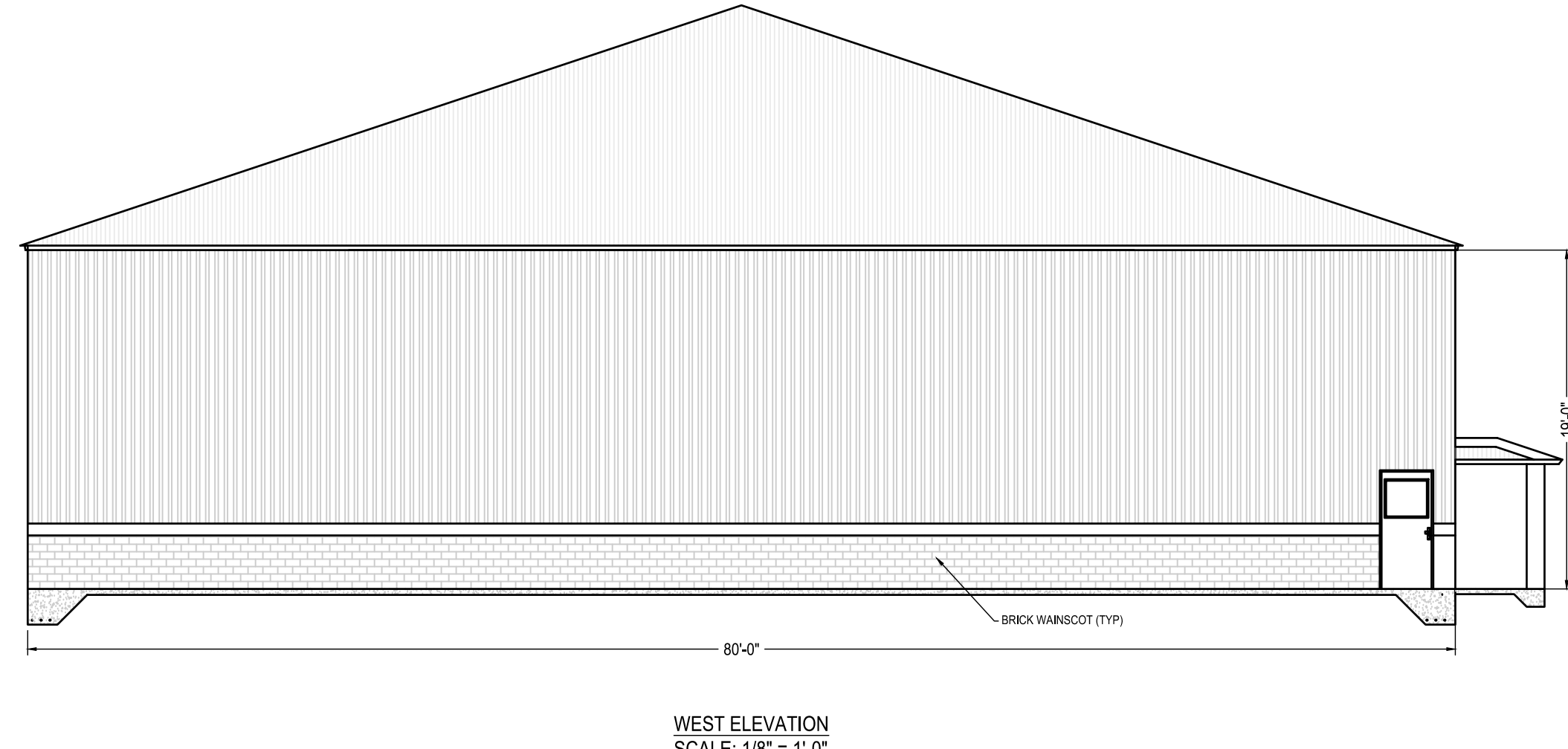
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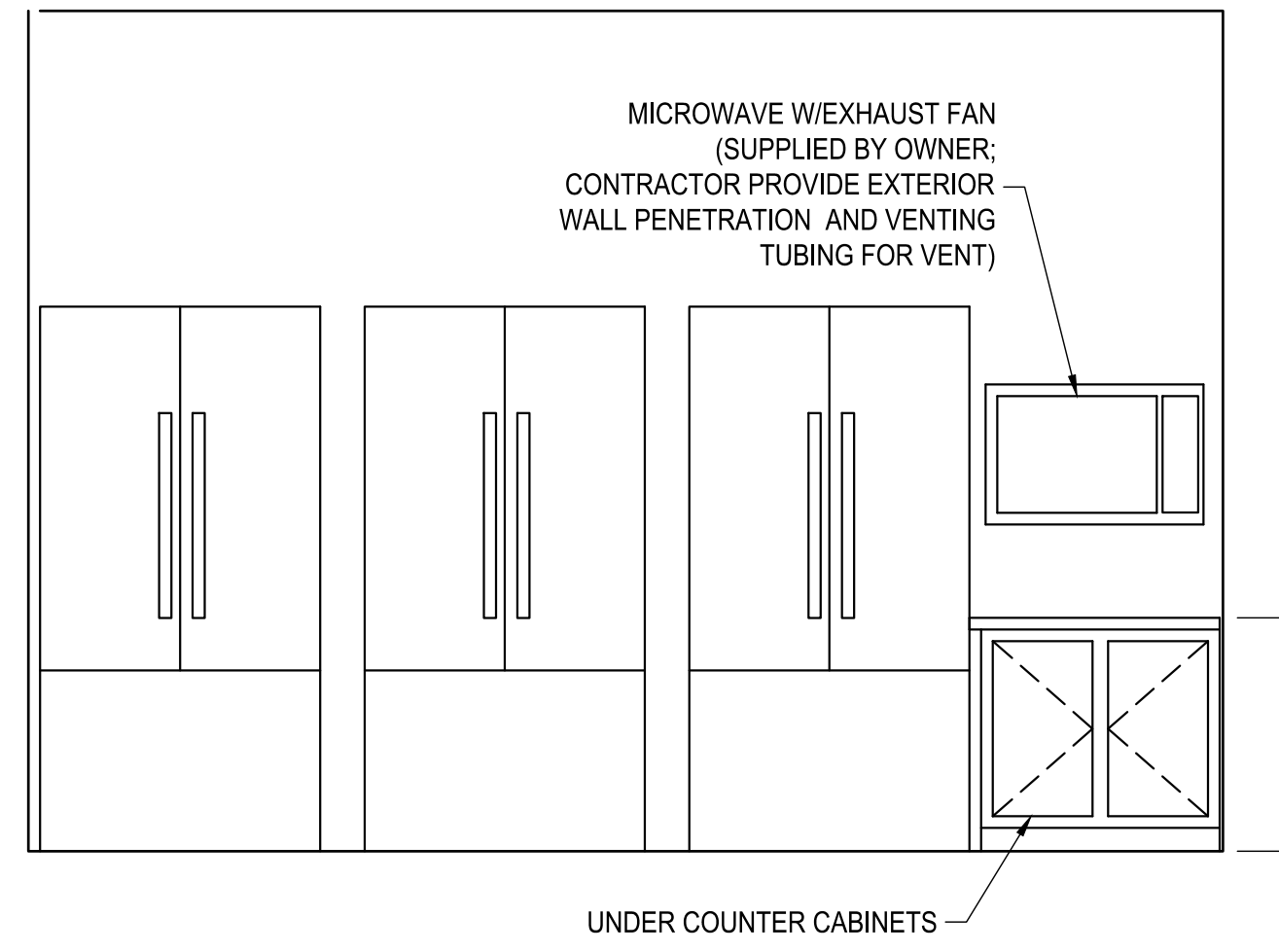
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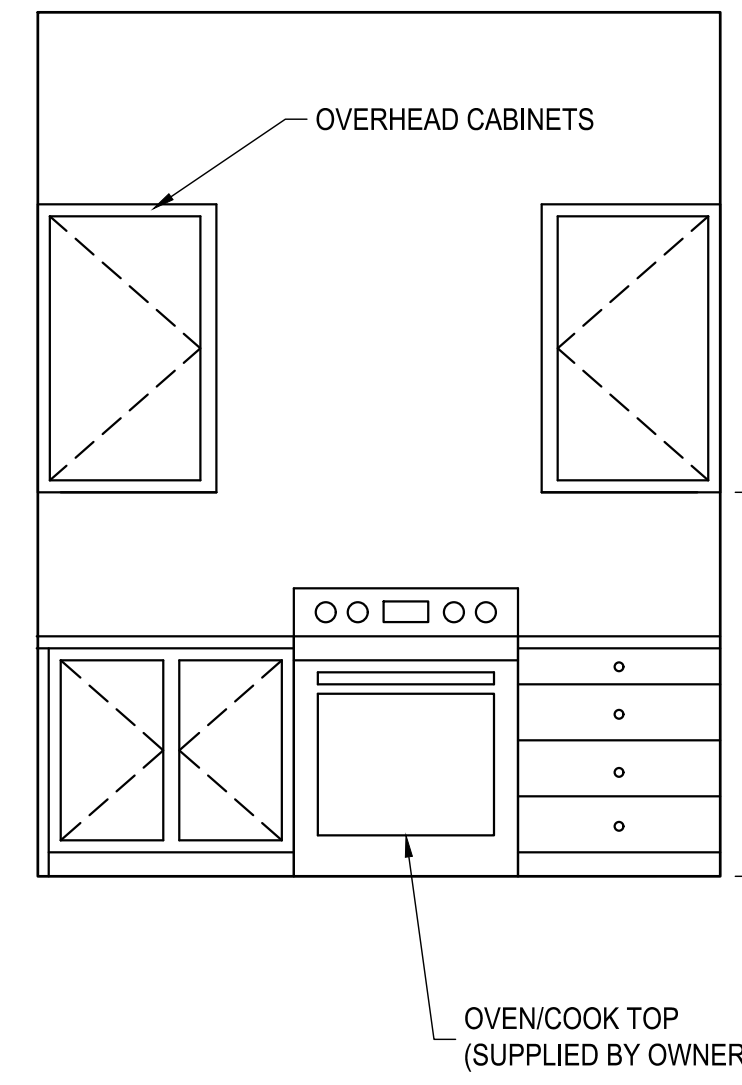
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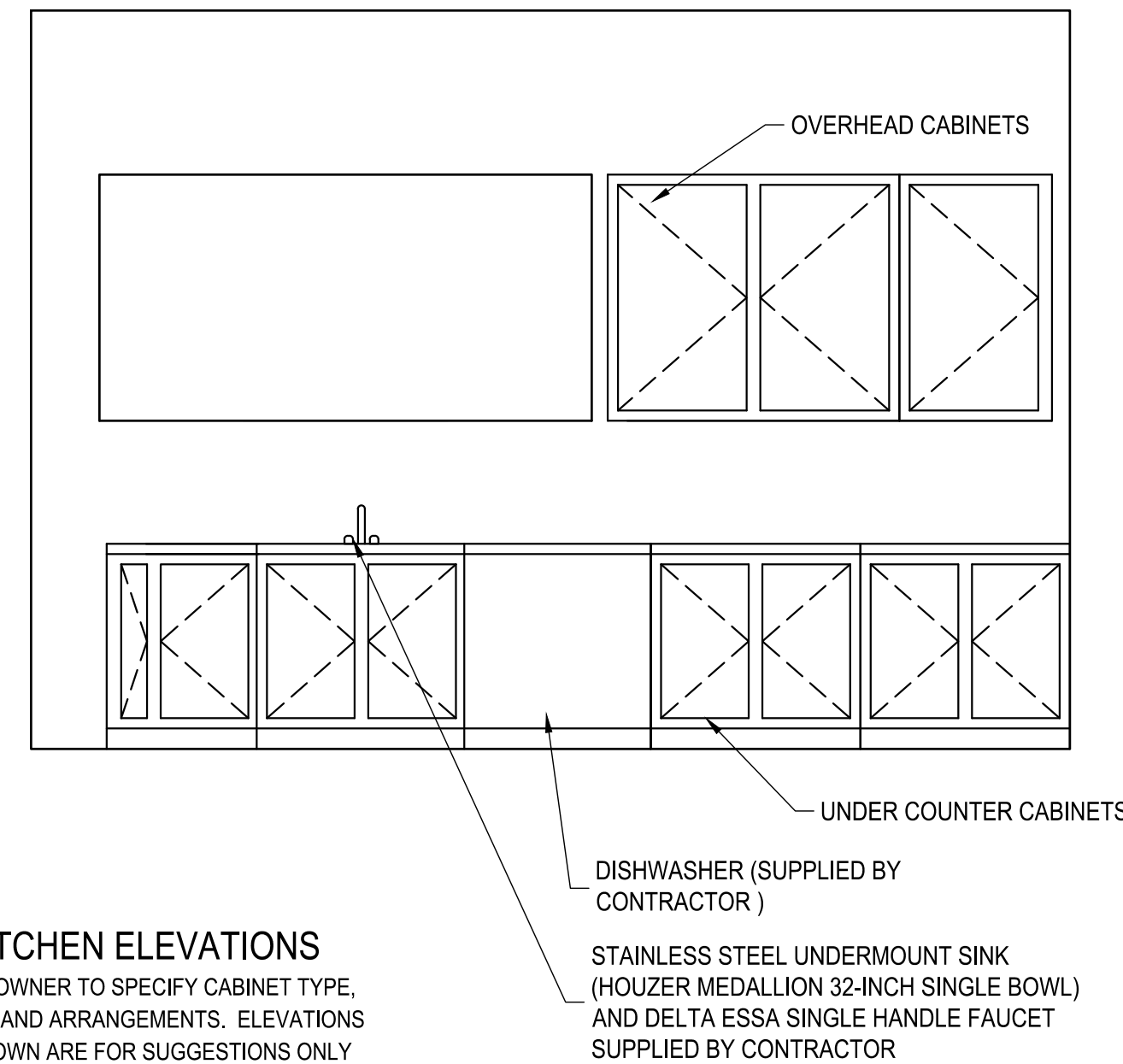
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**KITCHEN ELEVATIONS**  
NOTE: OWNER TO SPECIFY CABINET TYPE, COLOR, AND ARRANGEMENTS. ELEVATIONS AS SHOWN ARE FOR SUGGESTIONS ONLY  
SCALE: 1/2" = 1'-0"



**KITCHEN ELEVATIONS**  
NOTE: OWNER TO SPECIFY CABINET TYPE, COLOR, AND ARRANGEMENTS. ELEVATIONS AS SHOWN ARE FOR SUGGESTIONS ONLY  
SCALE: 1/2" = 1'-0"



**KITCHEN ELEVATIONS**  
NOTE: OWNER TO SPECIFY CABINET TYPE, COLOR, AND ARRANGEMENTS. ELEVATIONS AS SHOWN ARE FOR SUGGESTIONS ONLY  
SCALE: 1/2" = 1'-0"



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Santa Rosa Beach, FL 32459  
850.267.0759

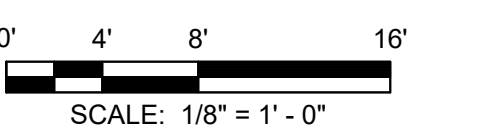
GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

SEAL

CLIFFORD L. KNAUER, P.E. 53930  
EB 0008794

FOR BID

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REVISIONS

NO.	DESCRIPTION	DATE

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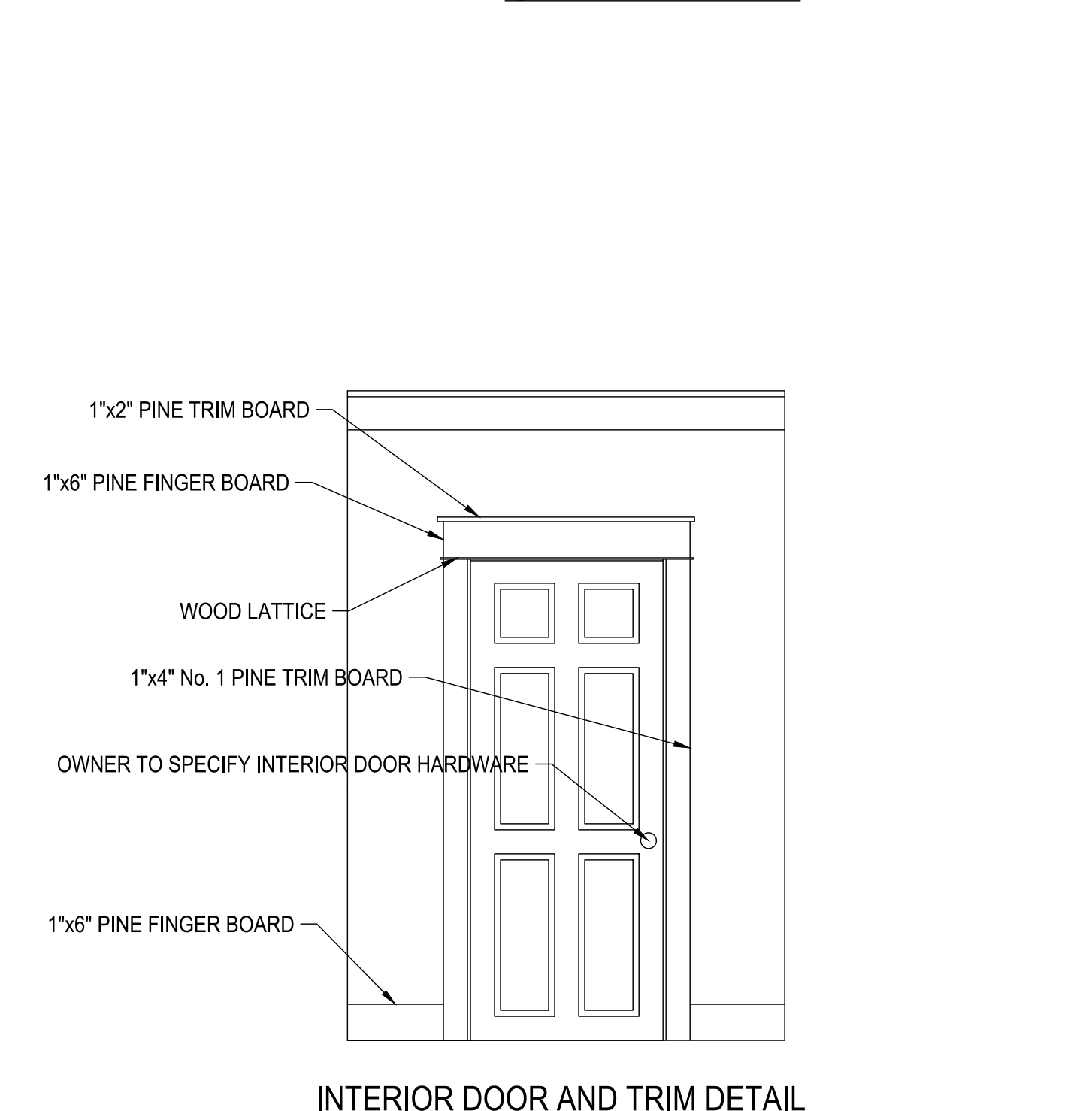
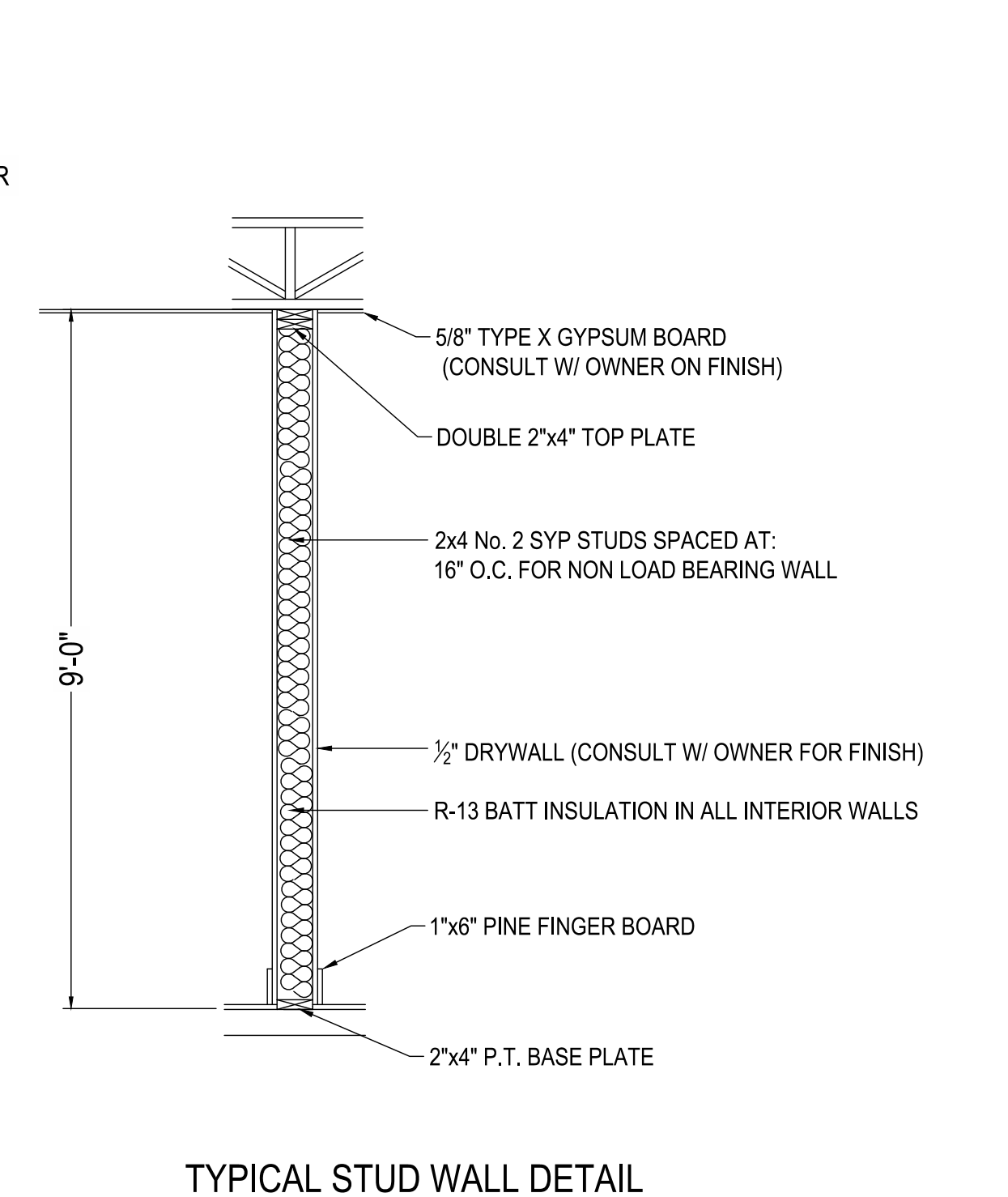
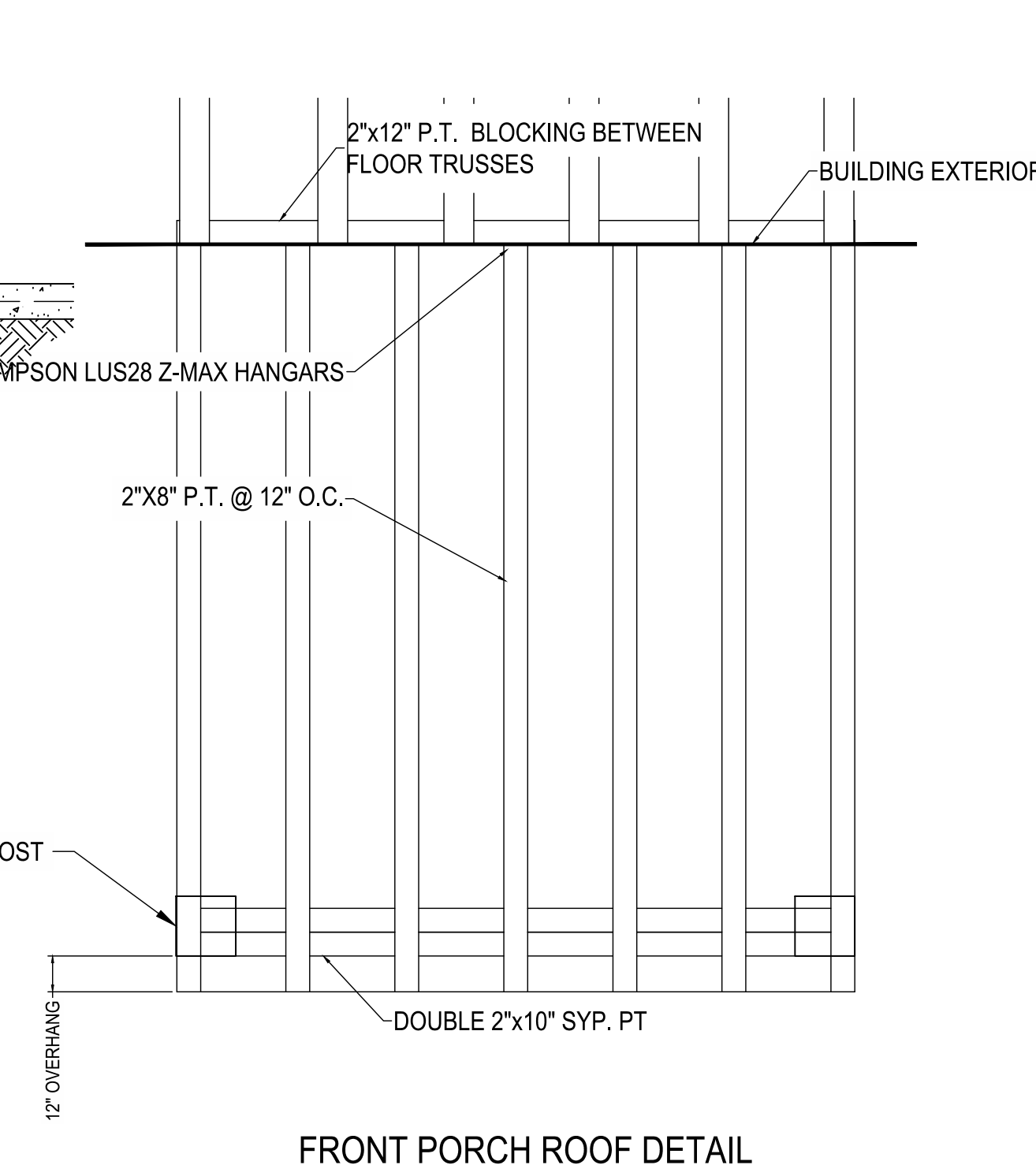
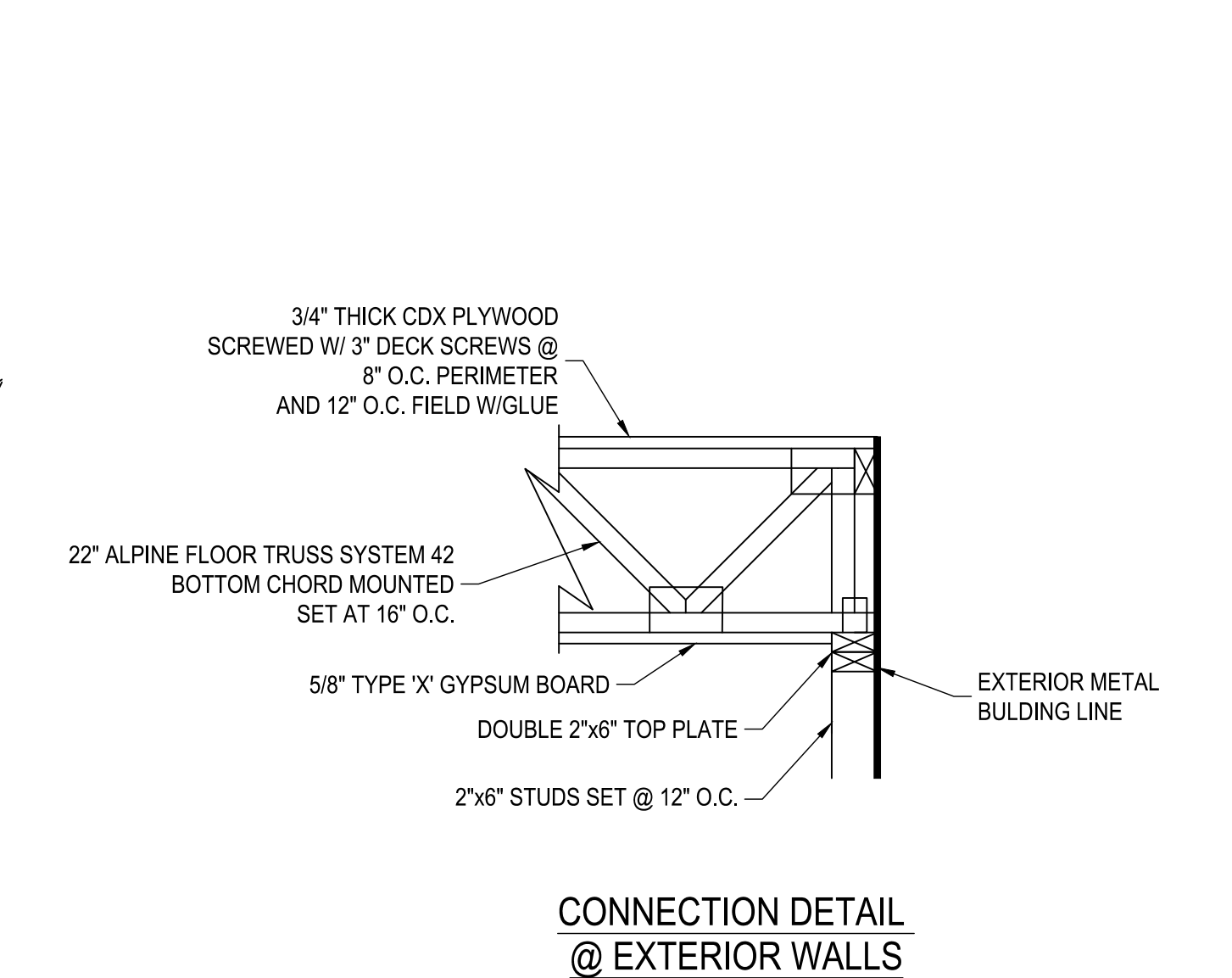
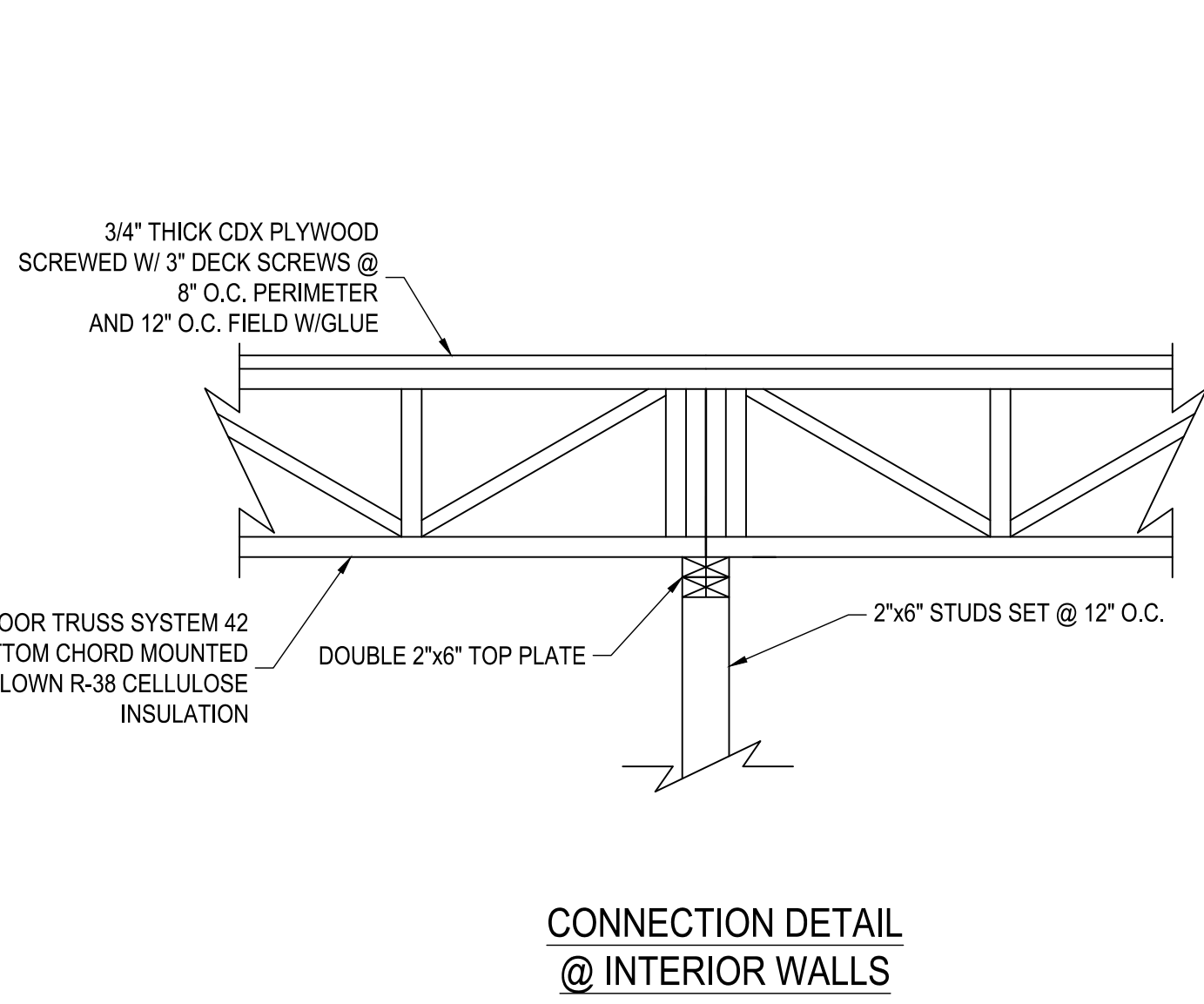
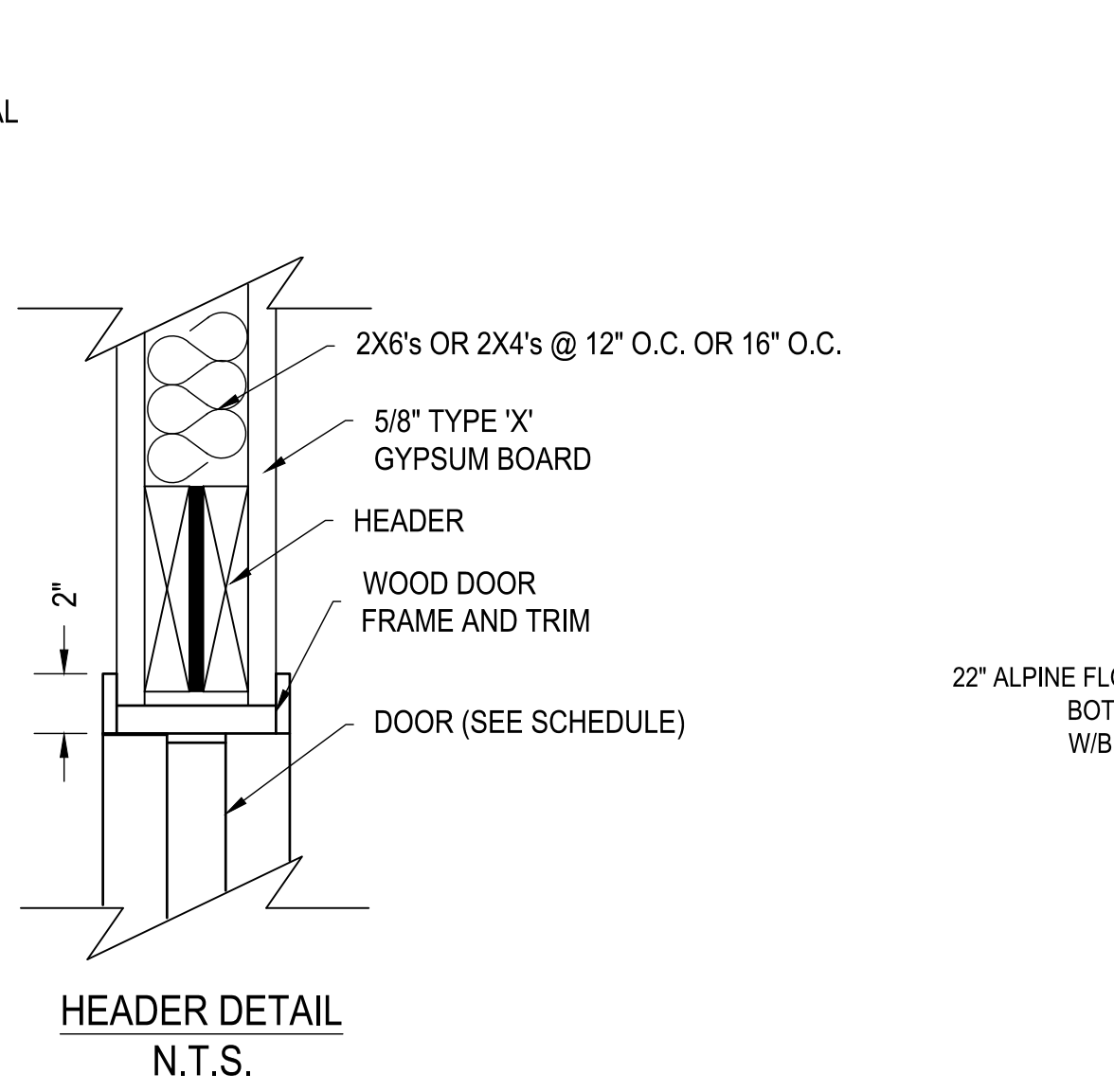
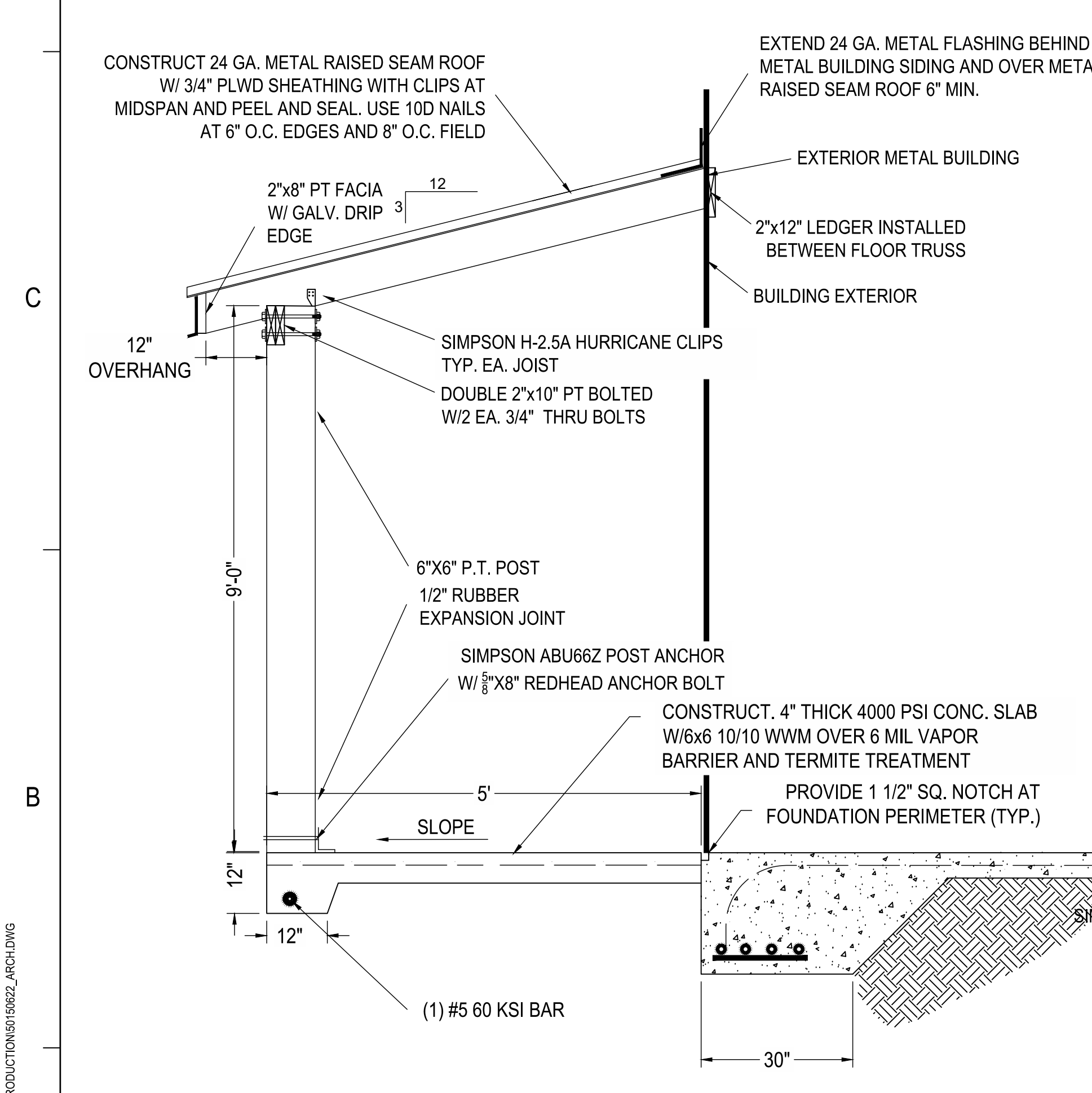
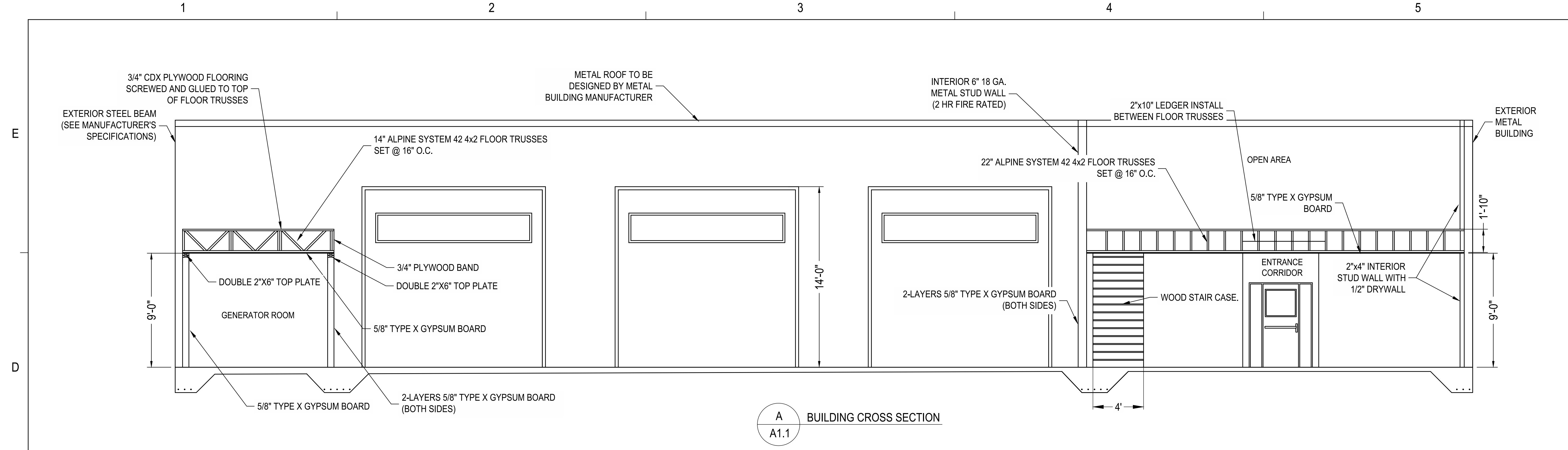
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PROJECT NO. 50150622

**A1.4**

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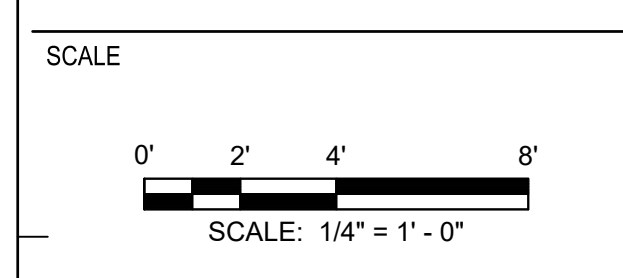
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TITLE  
**CROSS SECTIONS AND DETAILS**

PROJECT NO. \_\_\_\_\_ 50150622

**A1.5**

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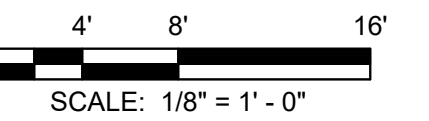
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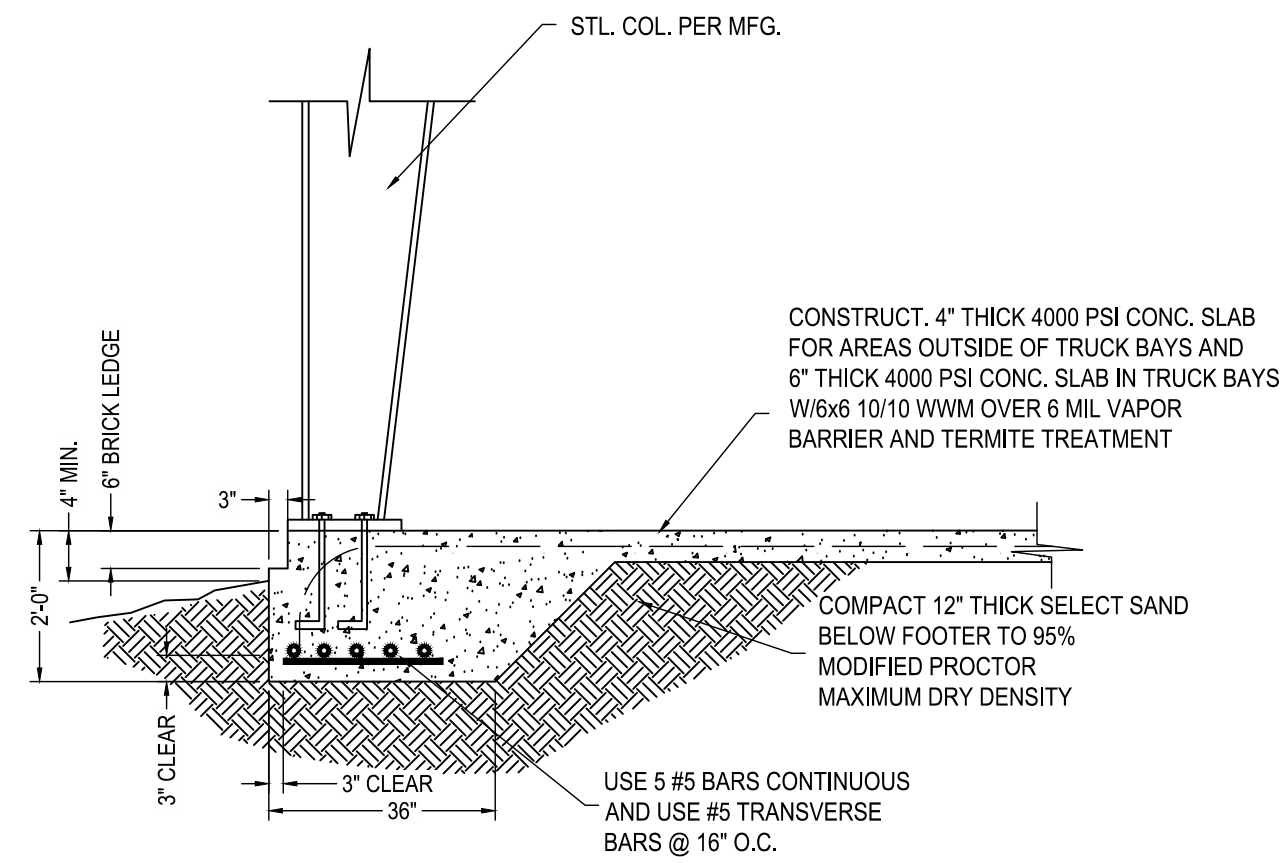
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DETAILS**

PROJECT NO. \_\_\_\_\_ 50150622

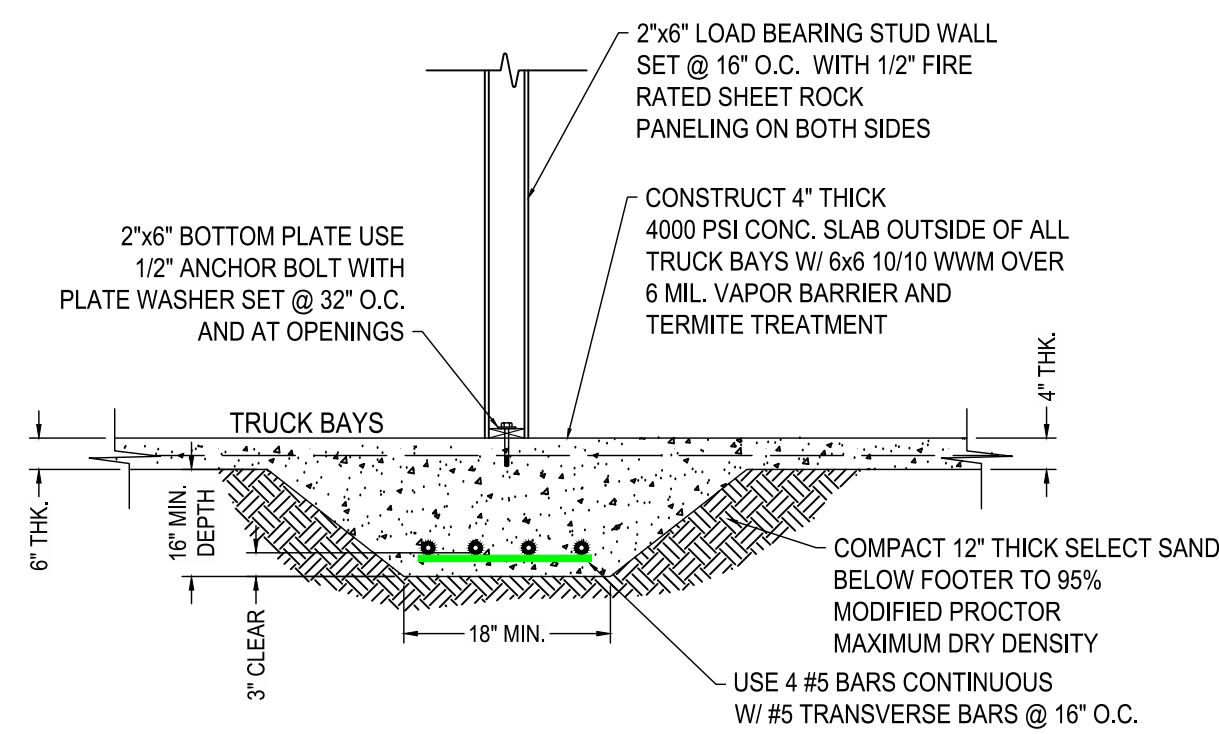
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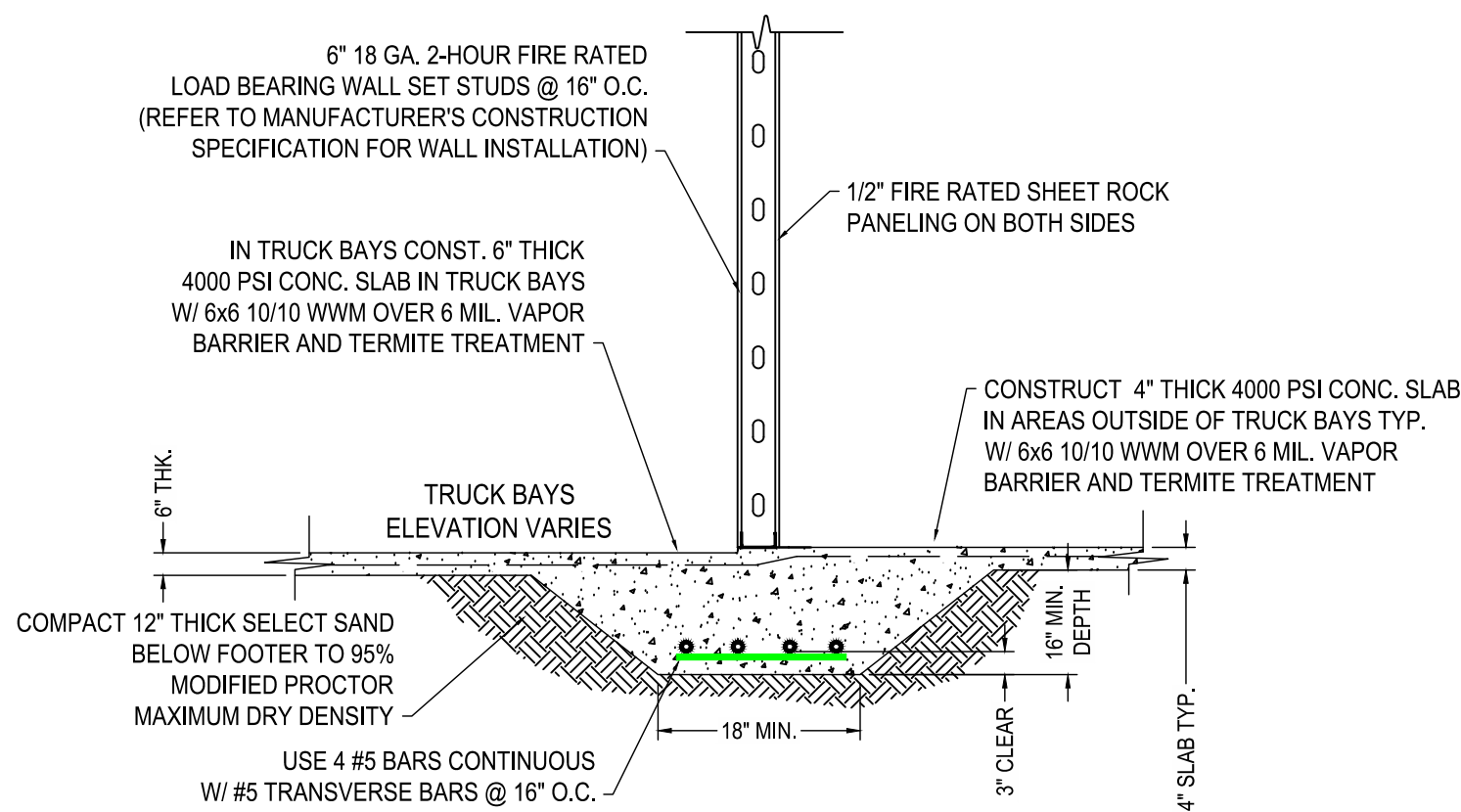
- GENERAL NOTES FOR FOUNDATION CONSTRUCTION**
- ALL CONSTRUCTION SHALL CONFORM TO THE 2020 FLORIDA BUILDING CODE. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
  - CONCRETE: 4000 PSI STEEL GRADE 60 ONLY.
  - ASSUMED BEARING CAPACITY OF EXISTING UNDISTURBED SOILS IS 1500 PSF MINIMUM.
  - ALL SELECT SAND FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR PROVIDE DENSITY TESTING AT 20' O.C. IN EACH BUILDING FOOTER.
  - ALL LAP SPICES IN FOOTING STEEL SHALL BE LAPPED 24 BAR DIAMETERS.
  - STEEL IN INTERIOR GRADE BEAMS SHALL BE SPICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.
  - ALL REINFORCED CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED IN PLANS.
  - EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
  - ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 20 FEET IN EACH DIRECTION.
  - SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES.
  - SINCE THE SITE PLAN IS BASED ON DATA PROVIDED BY THE OWNER, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.
  - CONTRACTOR SHALL PROOF ROLL ENTIRE FOUNDATION AREA W/ 4-10 TON ROLLER AFTER STRIPPING SOIL AND PRIOR TO DIGGING ANY FOUNDATION FOOTERS.



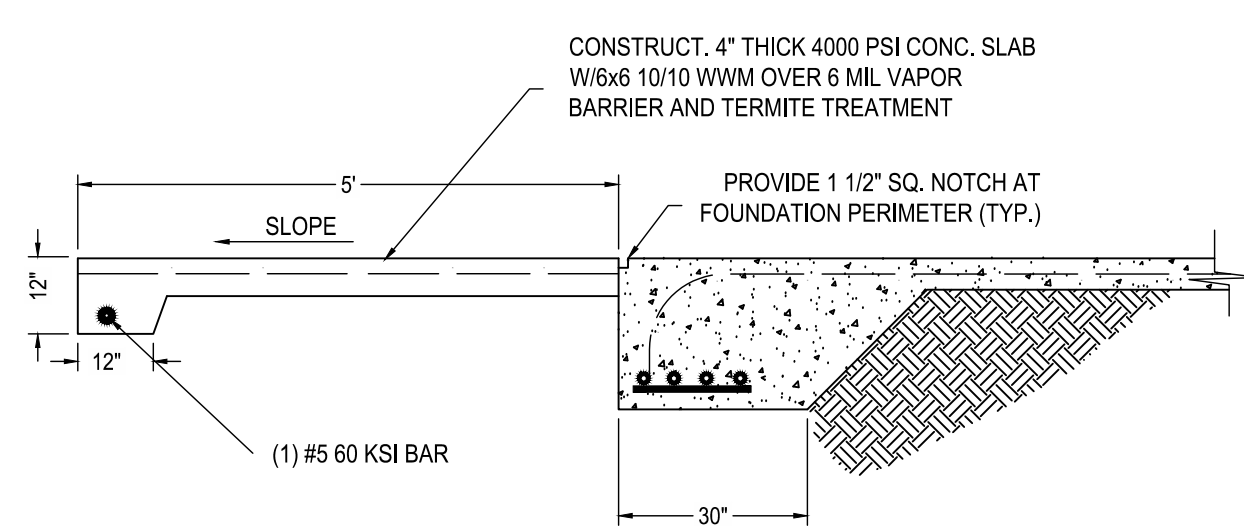
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A1.2



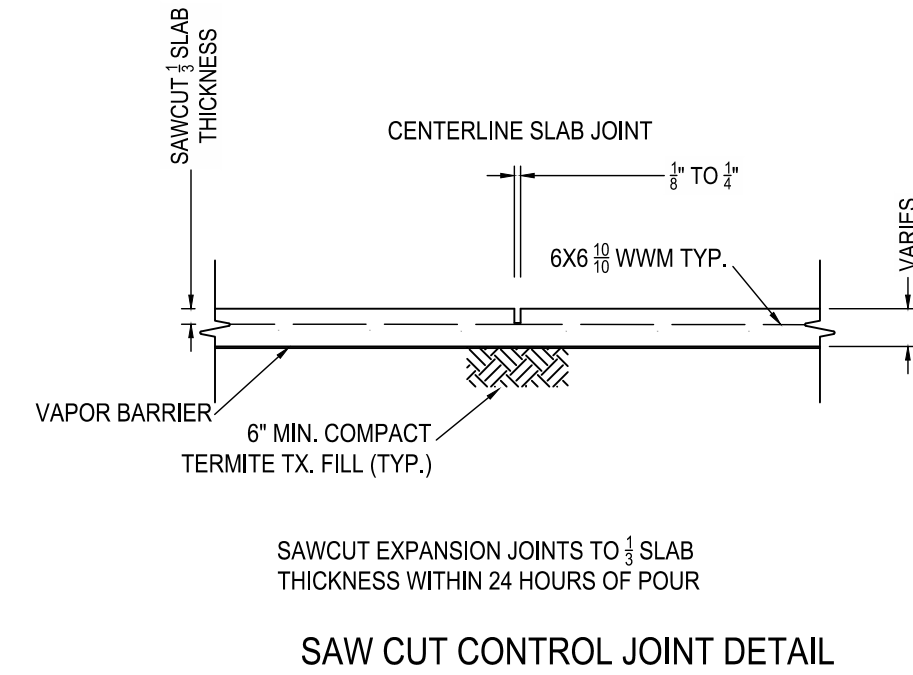
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A1.2



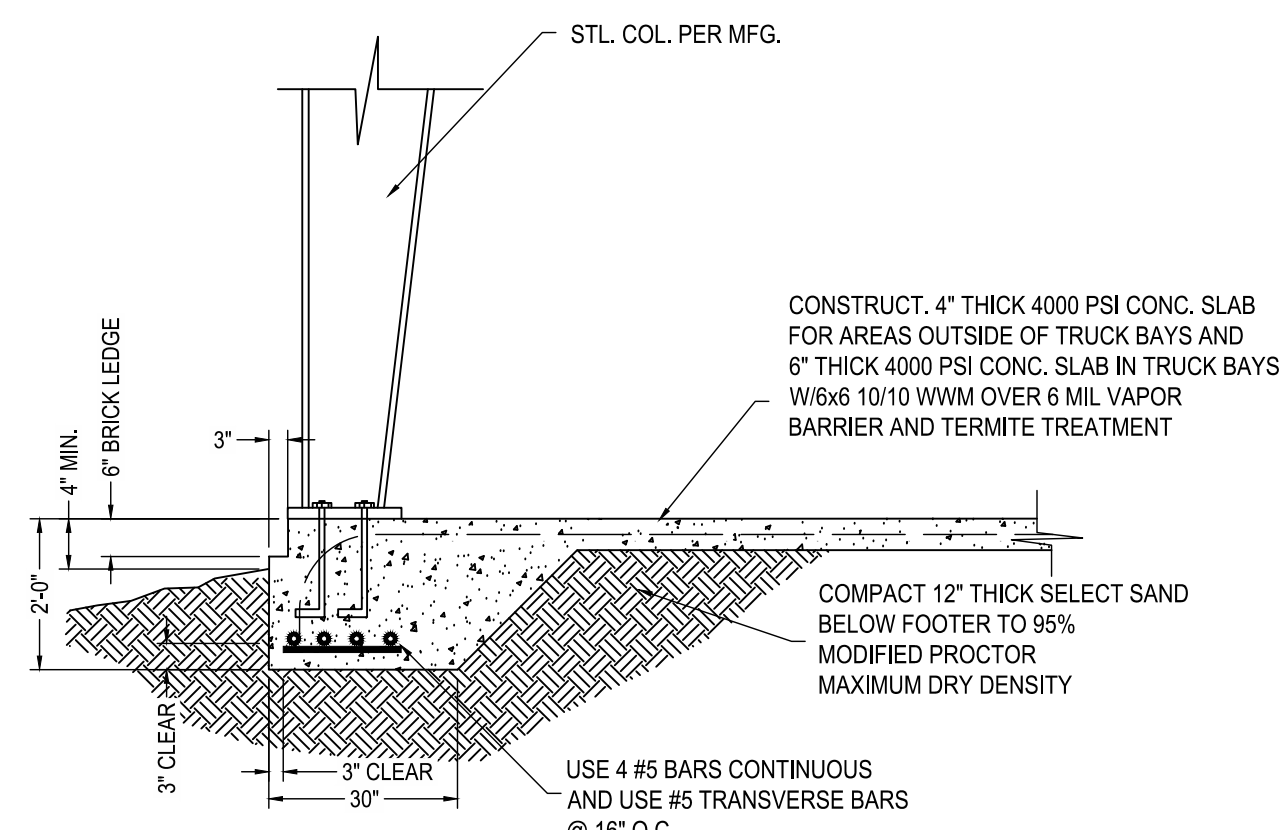
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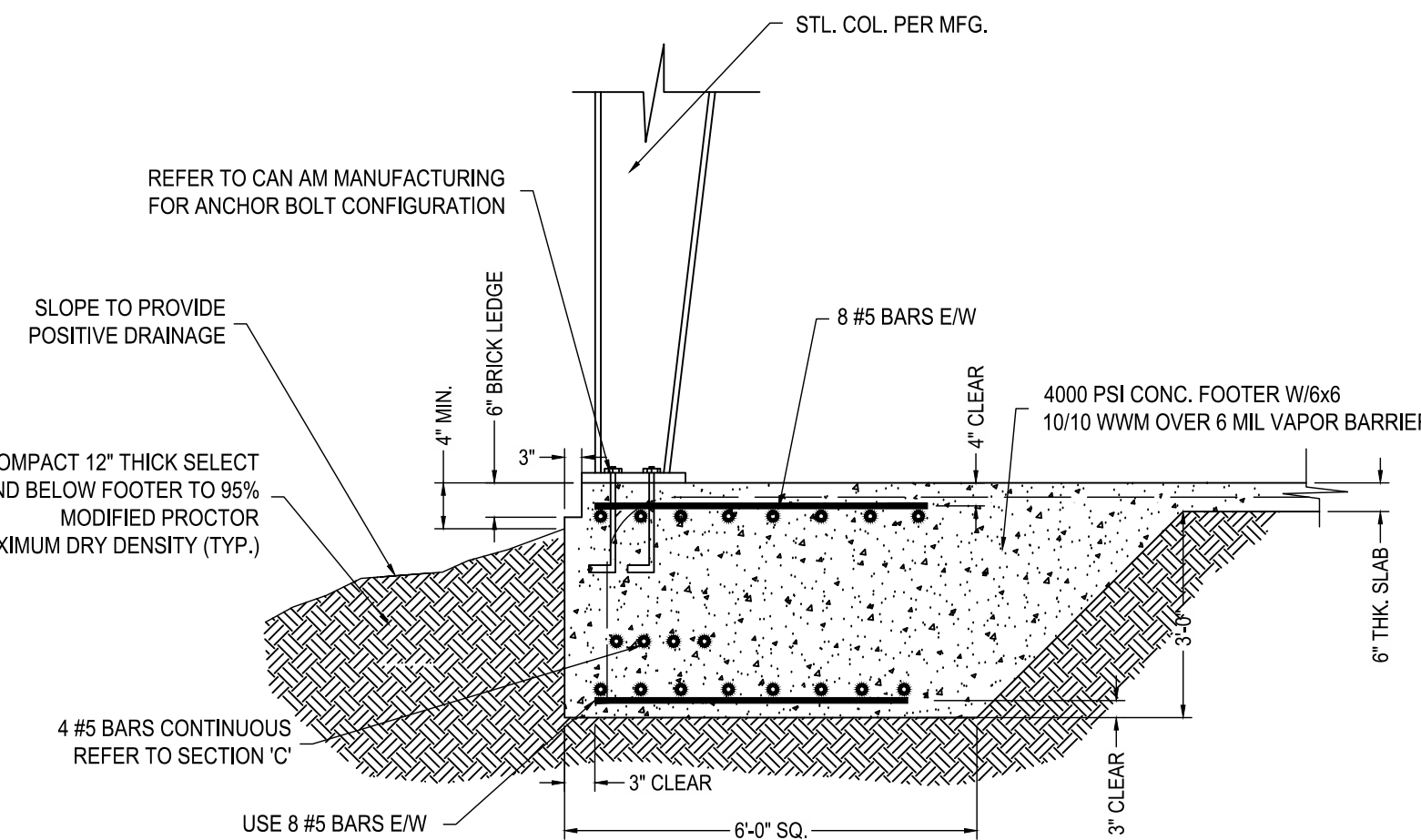
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A1.2



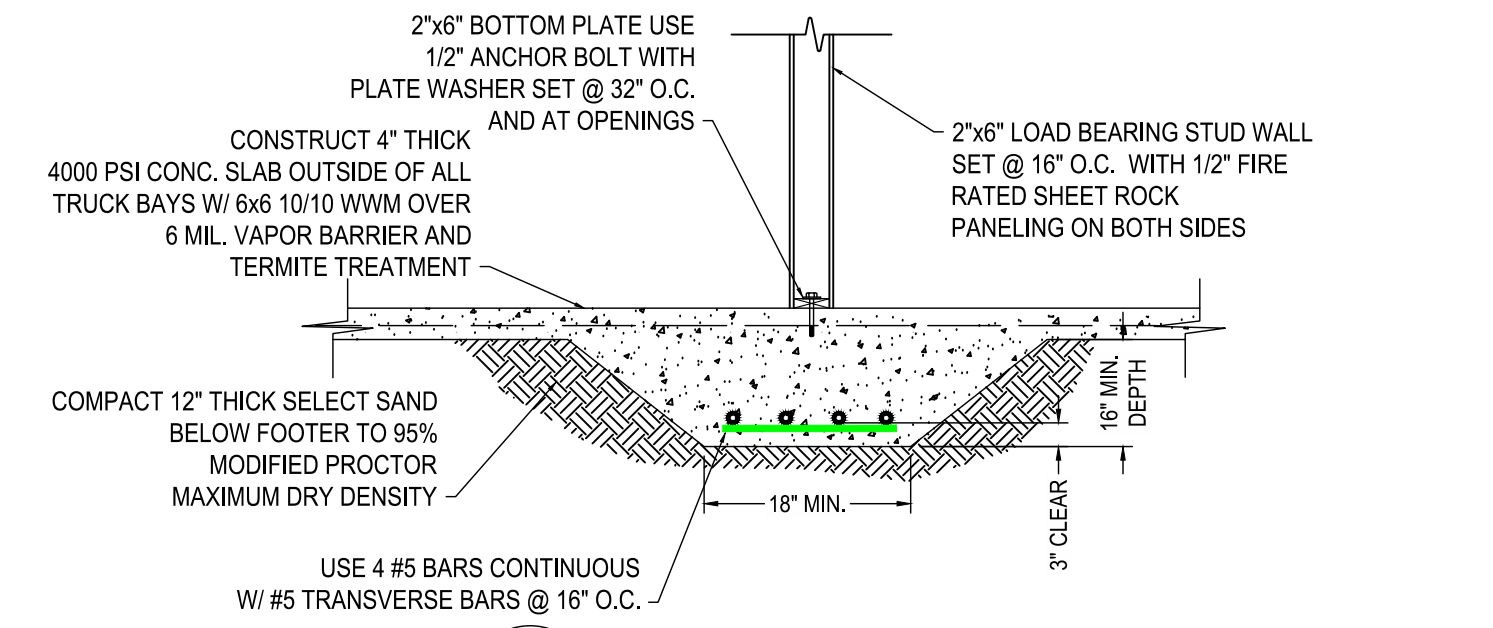
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A1.2



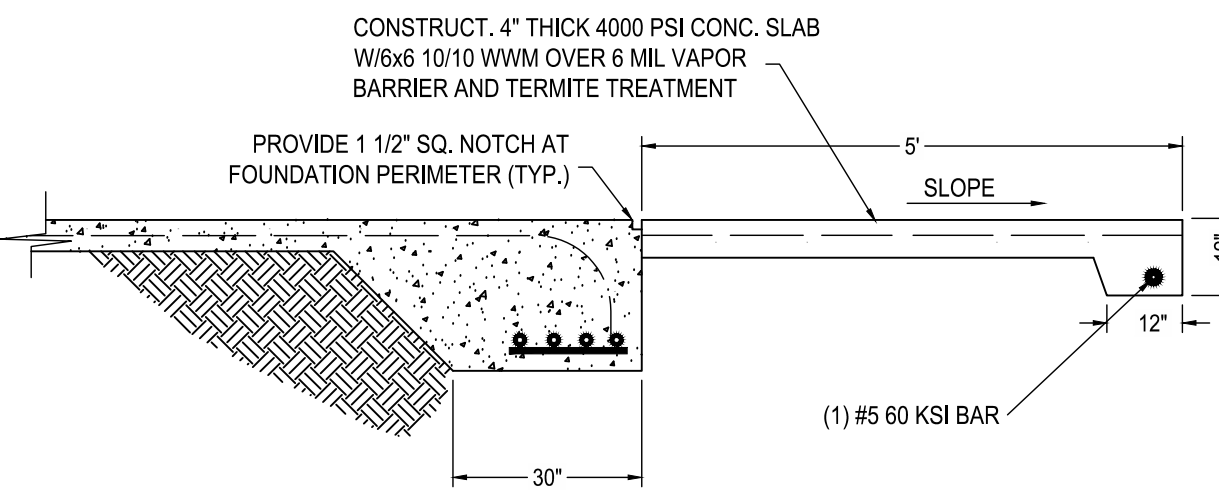
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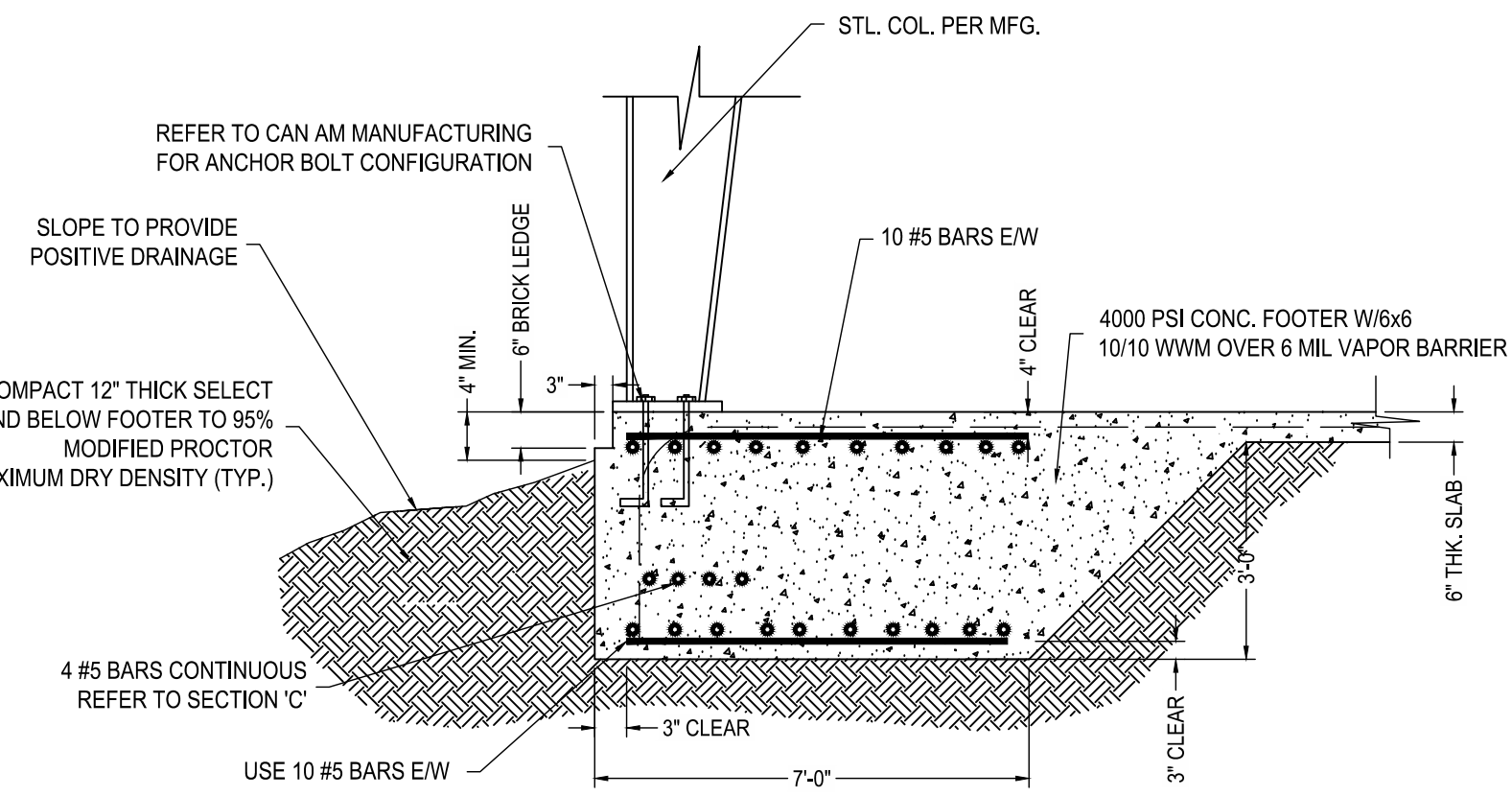
**G PERIMETER GRADE BEAM AT COLUMN CROSS SECTION**  
A1.2



**D INTERIOR GRADE BEAM AT LOAD BEARING WALL**  
A1.2



**H PERIMETER GRADE BEAM AT PORCH CROSS SECTION**  
A1.2



**J PERIMETER GRADE BEAM AT CORNER COLUMN CROSS SECTION**  
A1.2

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PRE-ENGINEERED WOOD TRUSS FRAMING

1. THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" AND FLORIDA BUILDING CODE 2010 EDITION, AND THE NATIONAL DESIGN STANDARD FOR METAL PLATE, CONNECTED WOOD TRUSS CONSTRUCTION.
2. IN ACCORDANCE WITH RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE THE TRUSS SYSTEM ENGINEER, A DELEGATED ENGINEER, SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW TO ARCHITECT / ENGINEER FOR THE ASSEMBLAGE OF PREFABRICATED, ENGINEERED WOOD TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATION CRITERIA (TRUSS PLACEMENT PLAN), THAT, IN COMBINATION, FUNCTION TO SUPPORT THE DEAD, LIVE AND WIND LOADS APPLICABLE TO THE ROOF TRUSS SYSTEM, THE TRUSS SYSTEM DOES NOT INCLUDE WALLS, OR ANY OTHER STRUCTURAL SUPPORT SYSTEMS. THESE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE TRUSS SYSTEM ENGINEER.
3. IN ACCORDANCE WITH RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE, THE TRUSS DESIGN ENGINEER, A DELEGATED ENGINEER, SHALL DESIGN THE INDIVIDUAL TRUSSES OF THE TRUSS SYSTEM, BUT DOES NOT DESIGN THE TRUSS SYSTEM. THE TRUSS DESIGN ENGINEER SHALL SUBMIT SHOP (PIECE) DRAWINGS AND CALCULATIONS FOR EACH DIFFERENT TRUSS AND TRUSS GIRDER THAT TOGETHER COMPRISE THE TRUSS SYSTEM. THESE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE TRUSS DESIGN ENGINEER.
4. THE TRUSS SYSTEM ENGINEER AND THE TRUSS DESIGN ENGINEER SHALL EACH BE RESPONSIBLE FOR THEIR OWN WORK. HOWEVER, THEY MAY BE THE SAME INDIVIDUAL PROVIDING TWO SEPARATE SERVICES.
5. THE LOADS, LAYOUTS AND CONNECTIONS PROVIDED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE THE MINIMUMS TO BE FOLLOWED BY THE TRUSS SYSTEM ENGINEER AND THE TRUSS DESIGN ENGINEER.
6. USE STRESS-RATED TIMBER FOR ALL WOOD STRUCTURAL MEMBERS. USE WOOD STRUCTURAL MEMBERS WITH A MINIMUM BENDING STRESS OF 1200 PSI & MODULUS OF ELASTICITY NOT LESS THAN 1,400,000 PSI WHEN USED AT 19% MAXIMUM MOISTURE CONTENT.
7. PRESSURE TREATMENT OF ALL STRUCTURAL LUMBER SHALL BE IN ACCORDANCE WITH AWPA STANDARDS C1 AND C2, LATEST EDITIONS WITH A WATERBORNE PRESERVATIVE IN ACCORDANCE WITH STANDARD P5, LATEST EDITION. ALL LUMBER TO BE KILN-DRIED AFTER TREATMENT TO A MOISTURE CONTENT NOT TO EXCEED 19% OVEN-DRY BASIS, PER STANDARD C2. ALL LUMBER LESS THAN 4"x4" (NOMINAL SIZE) TO BE TREATED TO THE ABOVE GROUND REQUIREMENTS OF C2.
8. ANCHOR ROOF TRUSSES TO TOP PLATE W/ H-10 TRUSS CLIPS TYP.
9. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW TO ARCHITECT/ENGINEER FOR PRE-FABRICATED, ENGINEERED WOOD TRUSSES SHOWING ALL MATERIALS, CONNECTIONS, ERECTION PROCEDURE, BRACING, BRIDGING, ATTACHMENT TO THE STRUCTURE, DESIGN LOADS (INCLUDING CONCENTRATED LOADS DUE TO EQUIPMENT, ETC.). SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, BY OR UNDER THE SUPERVISION OF AND SIGNED AND SEALED BY A DELEGATED ENGINEER, SEE NOTES "SHOP DRAWINGS AND OTHER SUBMITTALS".
10. THE DESIGN AND ERECTION OF WOOD TRUSSES, INCLUDING PERMANENT BRACING, SHALL CONFORM TO THE COMMENTARY AND RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE. THESE CALCULATIONS ARE TO BE PROVIDED BY THE TRUSS MANUFACTURER AND SUBMITTED AS STATED PREVIOUSLY ON THIS DRAWING. IN ADDITION TO CONTINUOUS LATERAL BRACING OF TOP AND BOTTOM CHORDS (DESIGNED BY DELEGATED ENGINEER BUT SPACED NOT MORE THAN 10'-0" O.C.), PROVIDE DIAGONAL BRACING (MIN. 2" THICK NOMINAL LUMBER) AS FOLLOWS:
  - A. IN THE PLANE OF THE TOP CHORD – LOCATE BETWEEN LATERAL BRACING. SET AT 45° ANGLES.REPEAT AT MAX 20'-0" INTERVALS.
  - B. IN THE PLANE OF THE WEB MEMBERS (PERPENDICULAR TO TRUSSES) – AT EACH WEB MEMBER REQUIRING CONTINUOUS LATERAL BRACING BUT NOT MORE THAN 16'-0" INTERVALS, SPACING BETWEEN SETS OF DIAGONALS SHALL NOT EXCEED 20'-0" OR TWICE THE HORIZONTAL RUN AT THE DIAGONAL.
  - C. IN THE PLANE OF THE BOTTOM CHORD – PLACE BETWEEN CONTINUOUS LATERAL BRACING AT 45° ANGLES AT EACH END OF BUILDING.
  - D. ANCHOR ALL DIAGONAL BRACING TO REINFORCED MASONRY WALLS OR REINFORCED CONCRETE MEMBERS WITH PRE-FABRICATED (MIN. 12 ga) GALVANIZED STEEL STRAPS OR FRAMING CONNECTORS. FASTEN STRAPS TO MASONRY WITH 2 1/2"Ø MASONRY ANCHORS OR (4) .17"x1 1/2" POWDER DRIVEN PINS IF INTO CONCRETE AND TO WOOD MEMBERS WITH NOT LESS THAN (6) 16d NAILS.
11. MINIMUM DESIGN LOADS FOR ROOF TRUSSES:
 

50	PSF	LIVE	LOAD	TOP	CHORD
10	PSF	DEAD	LOAD	TOP	CHORD
5	PSF	DEAD	LOAD	BOTTOM	CHORD

 SEE ROOF FRAMING PLAN FOR NET WIND UPLIFT LOAD & WIND PRESSURES BASED ON ASCE7. THE WEIGHT OF ROOFING & CEILING MAY NOT BE USED TO REDUCE WIND UPLIFT LOADS.

WOOD FRAMING & SHEATHING

1. WOOD CONSTRUCTION SHALL COMPLY WITH AF & PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND CHAPTER 23 OF FBC.
2. MANUFACTURED LUMBER, SAS AND GRADESTAMPED, TO COMPLY WITH PS20 AND APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY ALSI'S BOARD OF REVIEW.
3. PROVIDE SEASONED LUMBER WITH 19% MOISTURE CONTENT AT THE TIME OF DRESSING AND SHIPMENT, FOR SIZES 2" OR LESS IN THICKNESS.
4. COMPLY WITH "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED ROOF TRUSSES".
5. ALL STRUCTURAL LUMBER TO BE MIN SOUTHERN YELLOW PINE NO. 2 SAS, GRADESTAMPED, ALL OTHER LUMBER PER ARCHITECTURAL SPECIFICATIONS.
6. USE LUMBER WITH MINIMUM Fb 1050 / 1200 PSI FOR SINGLE/REPETITIVE USE AND A MOULES OF ELASTICITY, "E" OF 1,200,000 PSI (FOR WALLS AND BEAMS), PARALLEL STRAND LUMBER SHALL HAVE MINIMUM Fb 2900 PSI, E<sub>x</sub>2,000,000 PSI & F<sub>v</sub> x 290 PSI. EXTERIOR STUD WALLS TO BE CONSTRUCTED USING TIMBERSTRAND LSL.
7. AT ALL BUILT-UP WOOD AND BEAM BEARING LOCATIONS A MINIMUM OF (4) 2x6 STUD MEMBERS TO BE USED U.O.N.
- 8 MICRO-LAM LVL BEAMS USED AS MULTIPLE ASSEMBLY BEAMS TO BE CONNECTED WITH 3 ROWS OF 16d NAILS @ 12" O.C.
9. ONE PIECE OF 3 1/2" THICK MICRO-LAM LVL MAY BE SUBSTITUTED FOR TWO PIECES OF 1 3/4".
10. THE INDIVIDUAL STUDS OF BUILT-UP COLUMNS TO BE ADEQUATELY FASTENED TO DEVELOP COMPOSITE ACTION OF THE ASSEMBLY.
11. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, U.O.N.
12. AT ALL BUILT-UP WOOD COLUMNS USE (2) HUGHES AS 58 ANCHOR TIE DOWNS OR EQUIV. AT BASE AND AT TOP OF BUILT-UP COLUMN. BEAMS OR TRUSS GIRDERS BEARING ON BUILT-UP COLUMNS TO BE ANCHORED W/WUOC WOOD TO WOOD UPLIFT CONNECTOR.
13. USE MANUFACTURERS REQUIRED SIZE AND NUMBER OF NAILS OR BOLTS FOR ANCHOR TIE DOWNS, HURRICANE CLIPS AND ALL CONNECTORS.
14. SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES AND SUPPORTING MEMBERS USING FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE THE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR RECEIVE FINISH MATERIALS.
15. 3/4" PLYWOOD ROOF SHEATHING TO BE APA RATED 32/16 EXPOSURE I NAILED TO SUPPORTING MEMBERS WITH 10d NAILS @ 8" O.C. AND 4" O.C. ALONG THE EDGES. PROVIDE 1/16"SPACE AT END JOIST AND 1/8" AT EDGE JOINTS. PROVIDE PLY CLIPS ALONG EDGE JOINT AT MID SPAN BETWEEN SUPPORTS.
16. 3/4" PLYWOOD WALL SHEATHING TO BE NAILED TO WALL STUDS WITH 10d NAILS @ 8" O.C. AND 4" O.C. ALONG THE EDGES WITH CLIPS.
17. GYPSUM WALL SHEATHING AT EXTERIOR WALLS, LOAD BEARING WALLS AND INTERIOR WALLS INTERSECTING WALLS TO BE BLOCKED AND SECURED TO STUDS WITH DRYWALL NAILS AT 7" O.C. AND 4" O.C. ALONG THE EDGES.
18. PROVIDE CONT. LATERAL BRACING AND/OR BLOCKING BETWEEN CHORDS OF TRUSSES AS REQUIRED OR AS NOTED BY TRUSS MANUFACTURER TO ADEQUATELY TRANSFER LOADS TO SHEAR WALLS.
19. CONTRACTOR TO VERIFY THAT HURRICANE CLIPS/TIE DOWNS SHOWN WILL RESIST WIND UPLIFT FROM ROOF TRUSSES. IF UPLIFT VALUE FROM ROOF TRUSS MANUFACTURER EXCEEDS CAPACITY OF THE HURRICANE CLIPS/TIE DOWN, THE CONTRACTOR SHALL PROVIDE A CONNECTOR TO SAFELY RESIST THE UPLIFT LOADS.
20. PLACE FLAT STRAPPING BETWEEN STUDS AT ENDS OF ALL BEAM BEARING LOCATIONS, W/ 1 1/4"x30"x16 GA FLAT STRAP W/ (24) 10d NAILS TO BE PLACED AT ENDS OF BUILT-UP WOOD BEAMS.
21. ANCHOR BOLTS TO BE 1/2"x10" LONG W/ 2" SQ. WASHERS & SPACED 24" O.C. U.O.N. FIRST ANCHOR BOLT IS TO BE PLACED MAX 4" FROM EACH CORNER.
22. EXTERIOR END WALLS AT VAULTED OR CATHEDRAL CEILING LOCATIONS TO BE BALLOON FRAMED FROM SILL PLATE TO ROOF DIAPHRAGM.
23. PROVIDE THREADED ROD TIE-DOWN SYSTEM AT LOCATIONS NOTED ON PLANS.
24. ALL PRESSURE TREATED LUMBER TO BE ALKALINE COPPER QUAT (ACQ) TREATED, KILN DRIED AND CONNECTED WITH STAINLESS STEEL FASTENERS.
25. ALL CONNECTORS AND PLATES SHALL BE STAINLESS STEEL U.O.N. TRUSS PLATES AT INTERIOR LOCATIONS MAY BE GALVANIZED.
26. AT ENDS OF ALL SHEAR WALLS PLACE MIN. (3) BUILT-UP STUD GROUP. INSTALL SIMPSON HD101 HOLDDOWN ANC. AT BUILT-UP STUD GROUP ENDS OF SHEAR WALLS TO PROVIDE CONTINUOUS LOAD PATH FROM FRAMING LEVEL TO PRE-CAST BEAM LEVEL.
27. EXTERIOR WALLS TO BE FRAMED WITH TIMBERSTRAND LSL WALL STUDS AT ALL LOCATIONS. PROVIDE 1 ROW OF TIMBERSTRAND LSL BLKG. FOR WALLS UP TO 14' HIGH AND 2 ROWS FOR WALLS GREATER THAN 14' HIGH. NAIL STUDS TO PLATES W/ (3) 16d (3 1/2") END NAILS. 2x6 MEMBERS @ 12" O.C. TO BE USED FOR WALLS UP TO 14'-0". FOR END WALLS AND GABELS PROVIDE 3x6 MEMBERS @ 12" O.C.
28. THE ENGINEER SHOULD BE NOTIFIED OF ANY DEVIATIONS FROM THE PLANS OR TRUSS SHOP DRAWINGS.
29. PERMANENT TRUSS BOTTOM CHORD LATERAL BRACING, CONSISTING OF 2x4 GRADE MARKED LUMBER, NAILED W/ MIN. (2) 16d NAILS PER TRUSS AND LAPPED AT LEAST TWO TRUSSES, SHALL BE SPACED NO GREATER THAN 15'-0".
30. PRE-ENGINEERED TRUSS BRACING PER TRUSS MANUFACTURER TO BE A MINIMUM OF 2x4 OF THE SAME SPECIES AS TRUSS.
31. CEILING TO BE A MINIMUM OF 1/2" GYPSUM WITH 5d COOLER NAILS OR GMB-54 1 1/2" NAILS INSTALLED AT 10" O.C. AND 7" ALONG EDGES.
32. ALL TIMBER PRODUCTS SHALL BE INSPECTED IN ACCORDANCE WITH SECTION 951 AND SHALL MEET SPECIFICATIONS UNDER SECTION 952, 953, 954, AND 955 OF THE 2013 FDOT STANDARD SPECIFICATIONS.
33. CONTRACTOR MAY USE ALTERNATE STRAP AND ANCHOR MANUFACTURER FOR CONNECTIONS AND SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

CONCRETE MASONRY

1. CONSTRUCT MASONRY IN ACCORDANCE WITH SPECIFICATION SECTIONS 04200 AND 04230, ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS FOR CONCRETE M530.1 / ASCE 6,"SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY".
2. THE STRUCTURE IS SUPPORTED BY BEARING WALLS, U.O.N. ERECT MASONRY PRIOR TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OR CASTING BEAMS AND SLABS SUPPORTED BY BEARING WALLS.
3. USE 50% SOLID, NOMINAL 8X8X16, CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. LAY UP UNITS IN RUNNING BOND. SAWCUT UNITS WHICH ARE NOT IN MULTIPLES OF 8". UNITS SHALL BE AT LEAST 8" LONG. BAND CORNERS BY LAPPING ENDS 8" IN SUCCESSIVE VERTICAL COURSES. DESIGN OF WALLS IS BASED ON A F<sub>m</sub> OF 1500 PSI.
4. USE TYPE S MORTAR IN ACCORDANCE WITH ASTM C270 EXCEPT USE TYPE M MORTAR BELOW GRADE. HEAD AND BED JOINTS SHALL BE 3/8" FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING 1/2" OR MORE INTO CELLS TO BE GROUTED.
5. USE STANDARD (9 GAGE) HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A-82 IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS 6". USE PREFABRICATED CORNERS. USE TRUSS TYPE, EXCEPT USE LADDER TYPE IN WALLS WITH VERTICAL REINFORCING. EXTEND JOINT REINFORCING A MINIMUM OF 4" INTO THE COLUMNS.
6. USE FINE GROUT CONFORMING TO ASTM C-476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS. AGGREGATE TO CONFORM TO ASTM C404 FOR FINE GROUT, WITH SLUMP OF 8" TO 10". GROUT ALL MASONRY CELLS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH 1/2" HOUR TO 1 HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT.
7. USE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10'-0" O.C. WHERE GROUT POUR HEIGHT EXCEEDS 10'-0".
8. AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE 1 #5 X 5'-0" T & B CORNER BAR, WITH 30" LEGS EACH WAY, AT THE EXTERIOR FACE.
9. BEAMS NOT SCHEDULED ARE MINIMUM 8" X 12" TIE BEAMS WITH 2 #5 BARS TOP AND BOTTOM AND #3 TIES SPACED AT 48" O.C. TYPICAL AND 4 TIES AT 12" O.C. AT ENDS AND INTERSECTIONS, U.O.N. COLUMNS NOT SCHEDULED ARE MINIMUM 8" X 12" TIE COLUMNS WITH 4 #5 VERTICAL BARS AND #2 TIES AT 12" O.C. USE 30" LAP SPLICES. HOOK ALL BARS AT DISCONTINUOUS ENDS.
10. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH ACI 530.1/ASCE 6.
11. WHERE ANCHOR BOLTS, WEDGE ANCHORS OR ANCHORS SET IN EPOXY ARE SET IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
12. PROVIDE LINTELS OR HEADERS WITH MINIMUM 8" BEARING OVER ALL MASONRY OPENINGS.
13. USE PRESSURE TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
14. ALL CELLS SHALL BE SOLID FILLED W/ GROUT CONFORMING TO ASTM C-476.
15. ALL P.T. FURRING SHALL BE ANCHORED W/ 2 1/2" TAPCON SCREWS @ 16" O.C. TYP.

SHALLOW FOUNDATIONS:

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2017 FLORIDA BUILDING CODE.
2. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
3. CONCRETE: 3500 PSI STEEL: GRADE 60 ONLY
4. FOUNDATION DESIGN, SOIL PREPARATION AND COMPACTION ARE ASSUMED 1500 PSI BEARING CAPACITY.
5. ALL SELECT SAND FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR PROVIDE DENSITY TESTING AT 25' O.C. IN EACH BUILDING FOOTER.
6. ALL LAP SPLICES IN FOOTING STEEL SHALL BE LAPPED 24 BAR DIAMETERS.
7. STEEL IN INTERIOR GRADE BEAMS SHALL BE SPLICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.
8. ALL REINFORCED CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED ON PLANS.
9. EXTERIOR GRADE BEAMS RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
10. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 25 FEET IN EACH DIRECTION.
11. SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES.
12. SINCE SITE PLAN IS BASED ON DATA PROVIDED BY THE OWNER, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.

CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BOLTS,THREADED BARS & ANCHOR BOLTS

1. USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAWL POWER-FAST SYSTEM, HILTI HIT HY150, ITW RAMSEY/RED HEAD EPCON AT OR CG INJECTION SYSTEM, ALLED FASTENER ALLED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
2. CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" Ø PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
3. DRILL 1/16" LARGER Ø HOLE THAN ANCHOR BOLT AND 1/8" LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.
4. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.



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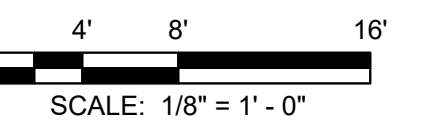
**LENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA**

SEAL

CLIFFORD L. KNAUER, P.E. 53930  
EB 0008794

FOR BID

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	_____	BTW
APPROVED BY	_____	BTW
CHECKED BY	_____	RAM
DATE	_____	JANUARY 2024

**GENERAL NOTES**

PROJECT NO. \_\_\_\_\_ 50150622

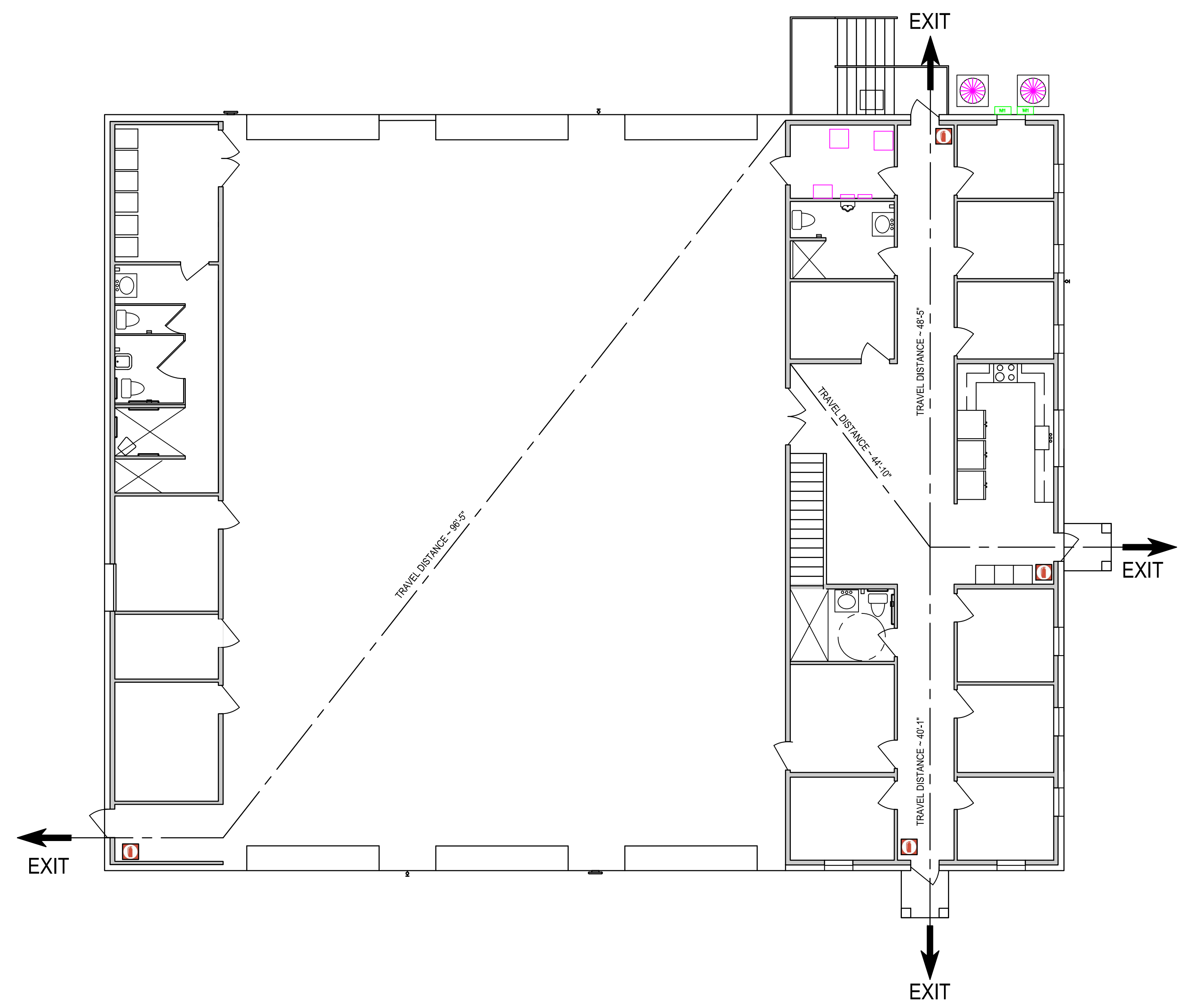
**A1.7**

SHEET NO.



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GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA



**LIFE SAFETY NOTES**  
OCCUPANCY CLASSIFICATION      GROUP B - BUSINESS  
SPRINKLER SYSTEM                      YES  
MAXIMUM OCCUPANT LOAD              49 (TABLE 1006.2.1)  
MAXIMUM EGRESS TRAVEL DISTANCE    100 FT (TABLE 1006.2.1)

**FIRE PROTECTION NOTES**  
1. ONLY ONE EXIT IS REQUIRED FROM THE GARAGE AREA  
SINCE THE OCCUPANCY OF THE SPACE IS 49 OR LESS  
PER 106.2.1

**SYMBOLS**  
 WALL MOUNTED FIRE EXTINGUISHER LOCATION.  
10LB. ABC DRY CHEMICAL, RECHARGEABLE.

SEAL

CLIFFORD L. KNAUER, P.E. 53930  
EB 0008794

FOR BID

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ BTW  
APPROVED BY \_\_\_\_\_ BTW  
CHECKED BY \_\_\_\_\_ RAM  
DATE \_\_\_\_\_ JANUARY 2024

TITLE  
**LIFE SAFETY PLAN**

PROJECT NO. \_\_\_\_\_ 50150622

**A1.8**

SHEET NO.



# ELECTRICAL SPECIFICATIONS

## BASIC ELECTRICAL MATERIALS AND METHODS

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: NEW, LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK).
- TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
- PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS. SEAL ALL CONDUIT PENETRATIONS.
- REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- ALL WORK SHALL COMPLY WITH ALL CODES & STANDARDS LISTED ON THE PLANS.
- WITHIN 30 DAYS OF NOTICE TO PROCEED, CONTRACTOR SHALL ARRANGE AND ATTEND A MEETING ON-SITE WITH A REPRESENTATIVE OF THE UTILITY TO COORDINATE REQUIREMENTS AND SCHEDULING OF INSTALLATION OF NEW SERVICE.

## GROUNDING AND BONDING

- EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- ALL GROUNDING CONDUCTORS SHALL BE COPPER; COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

## CONDUCTORS AND CABLES

- CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER. ALUMINUM CONDUCTORS PERMITTED ONLY WHERE SPECIFICALLY CALLED OUT ON POWER RISER DIAGRAM.
- CONDUCTOR INSULATION TYPES: TYPE THHN-TWVN COMPLYING WITH NEMA WC OR WC 7.
- TYPE NM CABLE: NOT PERMITTED.
- TYPE MC CABLE: PERMITTED FOR 15A/20A BRANCH CIRCUITS ONLY, IN CONCEALED LOCATIONS, WHERE ALLOWED BY CODE.
- EXPOSED FEEDERS, AND FEEDERS CONCEALED IN CONCRETE OR BELOW SLAB OR BELOW GRADE: TYPE THHN-TWVN, SINGLE CONDUCTORS IN RACEWAY.
- BRANCH CIRCUITS & FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-TWVN, SINGLE CONDUCTORS IN RACEWAY, OR MC CABLE WHERE ALLOWED BY NOTE 4, ABOVE.
- CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.
- FREE CABLES ABOVE CEILING, NOT IN CONDUIT SHALL BE PLENUM RATED.

## RACEWAYS AND BOXES

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS AND CEILINGS.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE EMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

## WIRING DEVICES

- STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-5966, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
- GFI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2-3/4-INCH-(70-MM)-DEEP OUTLET BOX WITHOUT AN ADAPTER.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- FINISHES: WHITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70. PROVIDE STAINLESS COVERPLATES.
- INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LOW DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
- ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT ARRANGEMENT OF PARTITIONS AND FURNISHINGS.
- AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

## ENCLOSED SWITCHES

- ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- NEUR ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MENT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS.
- PROVIDE FUSES FOR ALL FUSIBLE SWITCHES.
- FIELD-COORDINATE EXACT LOCATION OF SWITCHES WITH EQUIPMENT SERVED, AND OTHER TRADES, TO ASSURE MINIMUM N.E.C. CLEARANCE REQUIREMENTS ARE MET. PROVIDE PERMANENT LABELING OF EACH SWITCH TO INDICATE PANEL AND CIRCUIT SWITCH IS FED FROM (E.G., "A-4.6"). FOR CONDENSER UNITS, ALSO INDICATE AREA EQUIPMENT SERVES (E.G., "RM 101"). PROVIDE WEATHERPROOF LABELING OF EXTERIOR SWITCHES.

## PANELBOARDS

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1, OR TYPE 3R AS INDICATED.
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AS NOTED ON THE PANEL SCHEDULES.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MOLDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- PROVIDE AS-BUILT PANEL DIRECTORIES, CLEARLY INDICATING DEVICES/EQUIPMENT SERVED AND LOCATION (E.G., "RECEPTACLES-RM 101"). IN THE CASE OF CONDENSER UNITS, PANEL DIRECTORIES SHALL INDICATE MECHANICAL DESIGNATION AS WELL AS THE AREA THE MECHANICAL UNIT SERVES (E.G., "HP-1 RM 101").

## LIGHTING

- LIGHTING FIXTURES: PER LIGHTING FIXTURE SCHEDULE.
- PROVIDE LOW-VOLTAGE CABLING AS REQUIRED FOR DIMMING AND CONTROL.
- WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
- FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
- PROVIDE BLOODING, BACKBOXES, SUPPORTS, STEMS, COUPLINGS, AND OTHER HARDWARE AS NEEDED FOR A COMPLETE FUNCTIONAL INSTALLATION.
- FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS.

## FIRE ALARM

- THE CONTRACTOR SHALL FURNISH ALL LABOR AND EQUIPMENT FOR A COMPLETE NEW ADDRESSABLE FIRE ALARM SYSTEM AND SHALL POSSESS THE APPROPRIATE EC OR E.F. LICENSE AS REQUIRED BY THE STATE OF FLORIDA.
- THE FIRE ALARM SYSTEM SHALL BE INSTALLED, INSPECTED, TESTED AND CERTIFIED PER APPROPRIATE NFPA 12, 12A, 70, 72, 72E, 90A AND 101. ANY OTHER APPLICABLE CODE SHALL APPLY TO MEET STATE OF FLORIDA AND FIRE MARSHAL REQUIREMENTS. THE EQUIPMENT SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC., SHALL COMPLY WITH NFPA CODES AND REGULATIONS AND MEET REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
- IN ADDITION TO DEVICES SHOWN ON THE PLAN, THE CONTRACTOR SHALL PROVIDE ALL CARDS, MODULES, POWER SUPPLIES, AMPLIFIERS, CABLING, AND OTHER EQUIPMENT AS MAY BE NECESSARY TO SERVE ALL DEVICES SHOWN.
- THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR FOR EQUIPMENT, MATERIALS AND WORKMANSHIP OF THE MODIFICATIONS OF THE SYSTEM, AS SHOWN ON THESE PLANS.
- ALL CIRCUITS SHALL BE CLASS B. PROVIDE SURGE SUPPRESSION ON ALL CIRCUITS ENTERING THE BUILDING.
- CONTRACTOR SHALL TEST AND CERTIFY SYSTEM PRIOR TO COMPLETION OF THE PROJECT.
- THE FIRE ALARM CONTRACTOR SHALL APPLY FOR, AND OBTAIN, A SEPARATE PERMIT FOR ALL FIRE ALARM WORK. PROVIDE ALL SHOP DRAWINGS REQUIRED FOR PERMITTING, INCLUDING:
  - PLANS SHOWING NEW ALARM DEVICE, MODULE AND PANEL LAYOUT, SPECIFICATIONS AND INFORMATION (INCLUDING CANDELA USED IN THE SCOPE OF WORK).
  - THE SPECIFICATIONS SHOULD CLEARLY NOTE OR DEMONSTRATE COMPATIBILITY WITH ANY EXISTING COMPONENTS AND COMPLIANCE WITH THE SYNCHRONIZATION REQUIREMENT OF NFPA 72.
  - A RISER DIAGRAM SHOWING DEVICES AND WIRING NOTES OR SCHEDULE;
  - POWER CALCULATIONS WITH STANDBY POWER VALUES.

## PACKAGED ENGINE GENERATORS

- MANUFACTURERS: GENERATOR SHALL BE MANUFACTURED BY CATERPILLAR, CUMMINS, KOHLER, KVA POWER, LJ POWER GENERATORS, GILLETTE GENERATORS, OR TAYLOR POWER SYSTEMS. OTHER MANUFACTURERS MUST BE APPROVED BY THE ENGINEER PRIOR TO SUBMITTING A BID.
- RATINGS: 120/208V, THREE-PHASE; STANDBY POWER RATING AS NOTED ON PLANS/RISER.
- ENCLOSURES: WEATHERPROOF, SOUND-ATTENUATED ENCLOSURE, RATED FOR 120MPH WIND VELOCITY.
- ENGINE: 4-CYCLE INDUSTRIAL WATER-COOLED, DIESEL FUELED, WITH ELECTRONIC CONTROL, CERTIFIED TO US EPA STATIONARY EMISSION REGULATION 40 CFR, PART 60; MEET OR EXCEED EPA TIER III.
- ALTERNATOR: CLASS H INSULATION, 150 C TEMPERATURE RISE, 1% VOLTAGE REGULATION (NO LOAD TO FULL LOAD), LESS THAN 5% THD, WITH PERMANENT MAGNET EXCITATION.
- LISTINGS AND STANDARDS: UL LISTED TO UL 2200, DESIGNED TO ALLOW FOR INSTALLED COMPLIANCE WITH REQUIREMENTS OF NFPA 110 LEVEL 1.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER, 100% RATED.
- GENERATOR-MOUNTED CONTROL PANEL: DESIGNED AND BUILT BY THE SYSTEM MANUFACTURER AND INCORPORATING 100% SOLID-STATE CIRCUITRY, SEALED DUST-TIGHT, WATERTIGHT MODULAR COMPONENTS AND INSTRUMENTATION. THE PANEL SHALL BE SHOCK MOUNTED TO THE GENERATOR.
- MOUNTING: THE ENGINE-GENERATOR SET SHALL BE MOUNTED ON A STRUCTURAL BASE.
- CRITICAL GRADE SILENCER MUST BE ENCLOSED WITHIN THE UNIT IN A SEPARATE DISCHARGE BOX WITH THERMAL GRADE WRAPPING.
- UNIT SHALL BE SUPPLIED WITH A LEAD-ACID STARTING BATTERY, WITH A BATTERY CHARGER, INSTALLED INSIDE UNIT ENCLOSURE.
- PROTECTIVE DEVICES: SAFETY SHUTOFFS FOR HIGH WATER TEMPERATURE, LOW OIL PRESSURE, ELECTRICAL OVER-SPEED, AND ENGINE OVER-CRANK SHALL BE PROVIDED.
- AN ENGINE-MOUNTED THERMAL CIRCULATION WATER HEATER INCORPORATING AN ADJUSTABLE THERMOSTATIC SWITCH SHALL BE FURNISHED TO MAINTAIN ENGINE JACKET WATER TO 90F.
- INSTALLATION SHALL INCLUDE STARTUP AND FOUR-HOUR LOAD-BANK TESTING BY MANUFACTURER-CERTIFIED INSTALLER.
- WARRANTY: MANUFACTURER'S ONE-YEAR WARRANTY.
- PROVIDE EQUIPMENT SUBMITTAL INCLUDING SHOP DRAWINGS, WIRING DIAGRAMS, AND VENDOR'S SELECTION INFO, TO DEMONSTRATE 10% MAXIMUM VOLTAGE DIP.
- PROVIDE OPERATION AND MAINTENANCE AND TRAINING TO OWNER'S REPRESENTATIVE.
- REMOTE ANNUNCIATOR: NFPA 110 COMPLIANT (LEVEL 1).

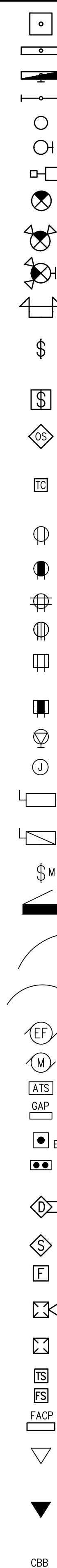
## AUTOMATIC TRANSFER SWITCH (ATS)

- MANUFACTURERS: THE SUPPLIER OF THE ATS SHALL BE THE SAME AS THAT OF THE ENGINE-GENERATOR SET. BASIS OF DESIGN IS ASCO SERIES 300 GROUP G.
- ATS SHALL BE 3-POLE, SOLID NEUTRAL, OPEN-TRANSITION (BREAK-BEFORE-MAKE), 208V, COMPLIANT WITH REQUIREMENTS OF NFPA 110 FOR LEVEL 1 SYSTEM, CURRENT RATING AS NOTED ON THE PLAN/RISER.
- ATS CURRENT RATING SHALL BE A CONTINUOUS RATING WHEN THE SWITCH IS INSTALLED IN AN ENCLOSURE, AND SHALL CONFORM TO NEMA TEMPERATURE RISE STANDARDS.
- ATS SHALL BE RATED FOR 42,000 AIC, MINIMUM.
- ATS SHALL INCLUDE AN ELECTRONIC CONTROL PANEL, WITH FIELD-ADJUSTABLE SETTINGS, AND PROGRAMMABLE EXCESSRISER.
- ATS SHALL INCLUDE ADJUSTABLE TIME DELAY TO OVERRIDE MOMENTARY NORMAL SOURCE FAILURE PRIOR TO ENGINE START. FIELD PROGRAMMABLE 0-10 SECONDS FACTORY SET AT 3 SECONDS.
- ATS SHALL INCLUDE ADJUSTABLE TIME DELAY ON RETRANSFER TO NORMAL SOURCE, PROGRAMMABLE 0-60 MINUTES FACTORY SET AT 30 MINUTES. IF THE EMERGENCY SOURCE FAILS DURING THE RETRANSFER TIME DELAY, THE TRANSFER SWITCH CONTROLS SHALL AUTOMATICALLY BYPASS THE TIME DELAY AND IMMEDIATELY RETRANSFER TO THE NORMAL POSITION.
- ATS SHALL INCLUDE TIME DELAY ON TRANSFER TO EMERGENCY, PROGRAMMABLE 0-5 MINUTES, FACTORY SET AT 1 SECOND.
- A SET OF CUSTOMER CONTACTS SHALL BE PROVIDED TO INDICATE BOTH EMERGENCY AND NORMAL SOURCE POSITION.
- ATS SHALL BE SUPPLIED WITH ONE-YEAR MANUFACTURER'S WARRANTY.

## CODES AND STANDARDS

NFPA 70	NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE, 2019 EDITION
FLORIDA FIRE PREVENTION CODE, EIGHTH EDITION.	
FLORIDA BUILDING CODE, EIGHTH EDITION.	

# ELECTRICAL LEGEND



- HIGH BAY FIXTURE.
- 1 X 4 LIGHTING FIXTURE.
- WALL-MOUNTED LIGHTING FIXTURE LENGTH AS INDICATED WITH EMERGENCY BATTERY PACK.
- STRIP LIGHT.
- RECESSED CAN LIGHTING FIXTURE.
- WALL-MOUNTED LIGHTING FIXTURE.
- POLE-MOUNTED AREA LIGHT.
- LED EXIT SIGN WITH INTEGRAL BATTERY AND INVERTER. PROVIDE UNSWITCHED HOT CONDUCTOR.
- COMBINATION LED EXIT SIGN AND EMERGENCY AREA LIGHT WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.
- LED EXIT LIGHT, SAME AS ABOVE, WALL MOUNTED
- WALL-MOUNTED EMERGENCY LIGHTING FIXTURE, WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.
- 120V/20A QUIET-TYPE SNAP SWITCH. SWITCHES SHALL BE MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. "3" INDICATES 3-WAY SWITCH, "4" INDICATES 4-WAY SWITCH.
- WALL-SWITCH WITH OCCUPANCY SENSOR; MOUNT 48" A.F.F., UNLESS NOTED OTHERWISE. WATSTOPPER #PW-101, OR APPROVED EQUAL.
- ROOM OCCUPANCY SENSOR (LOW-VOLTAGE). UNLESS NOTED OTHERWISE, CEILING MOUNTED WATSTOPPER #DT-300, OR APPROVED EQUAL. PROVIDE ROOM CONTROLLER(S) (#RZ-250) AS REQUIRED.
- 2 CHANNEL 24 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY TORK OR APPROVED EQUAL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.
- 20A/120V DUPLEX RECEPTACLE. MOUNT AT 18" A.F.F., UNLESS NOTED OTHERWISE. "USB" INDICATES INTEGRAL DUAL USB CHARGING PORTS.
- 20A/120V DUPLEX RECEPTACLE. MOUNT AT 48" A.F.F., UNLESS NOTED OTHERWISE.
- 120V/20A QUAD RECEPTACLE. NEW RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE.
- 240V/30A DRYER RECEPTACLE WITH 3/4" C.-3 #10, #10 GND, TO PANEL.
- 120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE. "WP" INDICATES CAST-ALUMINUM WEATHERPROOF IN USE COVER.
- 120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE.
- 240V/50A RANGE RECEPTACLE WITH 1" C.-3 #6, #10 GND, TO PANEL.
- PROVIDE JUNCTION.
- ENCLOSED SAFETY SWITCH NON-FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.
- ENCLOSED SAFETY SWITCH FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.
- MOTOR RATED 20A SNAP SWITCH FOR DISCONNECT MEANS.
- ELECTRICAL PANEL. SEE RISER PANEL SCHEDULES.
- CIRCUIT CONDUCTORS IN CONDUIT OR CABLE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. 120V CIRCUIT HOMERUNS LONGER THAN 100FT SHALL BE #10 AWG, MINIMUM. PROVIDE DEDICATED GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. MC CABLE ALLOWED IN CONCEALED LOCATIONS, WHERE ALLOWED BY CODE.
- CONDUCTORS IN CONDUIT, CONCEALED IN WALLS, CEILING, OR BELOW GRADE. HOMERUN TO PANEL INDICATED.
- CEILING-MOUNTED EXHAUST FAN. COORDINATE WITH MECHANICAL.
- ELECTRIC MOTOR.
- AUTOMATIC TRANSFER SWITCH.
- GENERATOR ANNUNCIATOR PANEL.
- EMERGENCY POWER OFF PUSH BUTTON.
- ROLLING DOOR CONTROL UP/DOWN/STOP. FURNISHED WITH ROLLING DOOR. COORDINATE INSTALLATION WITH MANUFACTURER'S RECOMMENDATIONS.
- FIRE ALARM SYSTEM DUCT SMOKE DETECTOR, WITH REMOTE INDICATOR AND SHUTDOWN RELAY. FIELD COORDINATE LOCATION WITH MECHANICAL INSTALLER.
- FIRE ALARM SYSTEM SMOKE DETECTOR
- FIRE ALARM SYSTEM MANUAL PULL STATION MOUNT AT 48" A.F.F.
- FIRE ALARM SYSTEM HORN/STROBE DEVICE. MOUNT 84" A.F.F. 75/110 CANDELA FIELD-SELECTABLE, UNLESS NOTED OTHERWISE.
- FIRE ALARM SYSTEM STROBE DEVICE. MOUNT 84" A.F.F. 75/110 CANDELA FIELD-SELECTABLE, UNLESS NOTED OTHERWISE.
- FIRE ALARM SYSTEM TAMPER SWITCH.
- FIRE ALARM SYSTEM FLOW SWITCH.
- FIRE ALARM CONTROL PANEL.
- COMMUNICATIONS OUTLET, MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE DEVICE BOX, WITH 3/4" C. STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE (2) CAT-6 CABLES TO TELCOM BACKING BOARD.
- COMMUNICATIONS OUTLET, MOUNTED ABOVE WORK SURFACE (44" A.F.F. UNLESS NOTED OTHERWISE). PROVIDE DEVICE BOX, WITH 3/4" C. STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE (2) CAT-6 CABLES TO TELCOM BACKBOARD. WHERE "TV" IS INDICATED, ALSO PROVIDE RG6 CABLING TO TELCOM BACKBOARD.
- COMMUNICATIONS BACKBOARD.
- ABBREVIATIONS
- ELECTRIC WATER COOLER.
- WEATHERPROOF.



877 CR 393 North  
Santa Rosa Beach, FL 32459  
850.267.0759

GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

SEAL

NOT FOR CONSTRUCTION

SCALE: AS NOTED

APPLIED RESEARCH AND DESIGN, INC.

2623 S. BLAIR STONE ROAD  
TALLAHASSEE, FL 32301  
FL CA#8948  
JAMES M. LAMB, PE#52688  
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## REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ MRC  
APPROVED BY \_\_\_\_\_ JML  
CHECKED BY \_\_\_\_\_ JML  
DATE \_\_\_\_\_ 4 MARCH, 2024

TITLE

ELECTRICAL  
LEGEND & NOTES

PROJECT NO. 50150622

E0.1

SHEET NO.

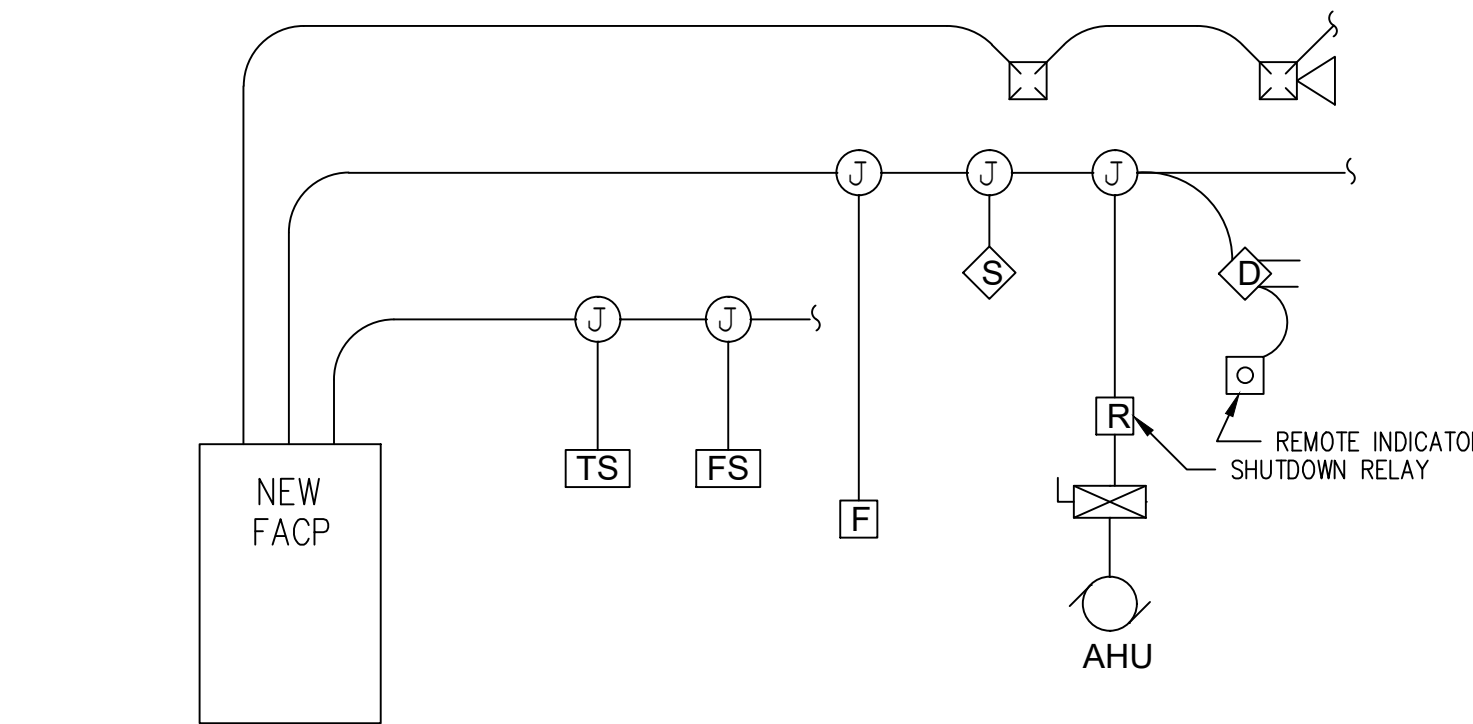
PANEL: C												
MAIN: 200A MLO SERVICE: 120/208V, 3-PHASE, 4-WIRE LOCATION: SEE PLAN RATING: 22,000 AIC TYPE: NEMA-1, SURFACE												
CKT	DESCRIPTION	BKR	P	KVA			LOAD	BKR	P	DESCRIPTION	CKT	
				A	B	C						
1	LTS-2ND FLOOR	20	1	0.52	0.82		0.30	20	1	GEN. BATT. CHGR.	2	
3	REC-2ND FLOOR	20	1	0.72		1.72	1.00	30	2	GEN. BLOCK HTR.	4	
5	REC-2ND FLOOR	20	1	0.54			1.54	1.00	20	1	FUEL PUMP	8
7	VEHICLE EXH. CONTROLLER	20	1	0.10	1.10		1.00	20	1	JOCKEY PUMP (3HP)	10	
9	VEHICLE EXH. FAN	30	3	2.10		4.05	1.95	30	2		12	
11				2.10			4.05	1.95			14	
13				2.10	3.10		1.00	20	1	BLDG. SIGNAGE	16	
15	PANEL D (WELL PUMP 15HP)	100	3	5.98		6.98	1.00	20	1	BLDG. SIGNAGE	18	
17				5.80			6.80	1.00	20	1		20
19				5.80	5.80						22	
21	SPARE	20	1			0.00				SPACE	24	
23	SPARE	20	1			0.00				SPACE	26	
25	SPARE	20	1			0.00				SPACE	28	
27	SPARE	20	1			0.00				SPACE	30	
29	SPARE	20	1			0.00				SPACE	32	
31				10.82	12.75	12.39					34	
TOTAL CONNECTED LOAD (KVA):				35.96	KVA	99.9	AMPS					

PANEL: B												
MAIN: 200A MLO SERVICE: 120/208V, 3-PHASE, 4-WIRE LOCATION: SEE PLAN RATING: 22,000 AIC TYPE: NEMA-1, SURFACE												
CKT	DESCRIPTION	BKR	P	KVA			LOAD	BKR	P	DESCRIPTION	CKT	
				A	B	C						
1	LTS-BLDG EXTERIOR	20	1	1.03	1.39		0.36	20	1	REC-UTILITY RM. COMMS	2	
3	LTS-SITE	20	1	0.29		0.65	0.36	20	1	REC-UTILITY RM. COMMS	4	
5	REC-GEAR RM, R.R.	20	1	0.90			1.62	0.72	20	1	REC-UTILITY RM. R.R.	6
7	REC-COMPR. RM.	20	1	0.54	1.44		0.90	20	1	REC-RECREATION RM.	8	
9	REC-SPRINKLER RM.	20	1	0.72			1.80	1.08	20	1	REC-BUNK RMS	10
11	REC-GARAGE	20	1	0.72			1.08	0.36	20	1	REC-KITCHEN	12
13	REC-GARAGE	20	1	0.54	0.90		0.36	20	1	REC-KITCHEN	14	
15	REC-GARAGE	20	1	0.54		1.54	1.00	20	1	REC-KITCHEN	16	
17	REC-GARAGE	20	1	0.54			1.54	1.00	20	1	REC-KITCHEN	18
19	REC-GARAGE	20	1	0.80	1.80		1.00	20	1	REC-KITCHEN	20	
21	ROLL-UP DOOR	20	1	1.20		1.70	0.50	20	1	REC-KITCHEN HOOD	22	
23	ROLL-UP DOOR	20	1	1.20			2.28	1.08	20	1	REC-DINING RM.	24
25	ROLL-UP DOOR	20	1	1.20	2.10		0.90	20	1	REC-BUNK RM., R.R., ETC	26	
27	ROLL-UP DOOR	20	1	1.20	2.10		0.90	20	1	REC-CONF. RM.	28	
29	ROLL-UP DOOR	20	1	1.20			2.28	1.08	20	1	REC-BUNK RMS	30
31	ROLL-UP DOOR	20	1	1.20	2.70		1.50	20	1	DFU-1/DFU-1	32	
33	SPARE	20	1			1.50	1.50	20	1	DFU-1/DFU-1	34	
35	SPARE	20	1			0.00		20	1	SPARE	36	
37	SPARE	20	1			0.00		20	1	SPARE	38	
39	SPARE	20	1			0.00		30	2	SPARE	40	
41	SPARE	20	1			0.00		30	2	SPARE	42	
TOTAL CONNECTED LOAD (KVA):				28.42	KVA	78.9	AMPS					

PANEL: A												
MAIN: 400A MLO SERVICE: 120/208V, 3-PHASE, 4-WIRE LOCATION: SEE PLAN RATING: 22,000 AIC TYPE: NEMA-1, SURFACE												
PROVIDE UL-1449 LISTED TYPE 1 SURGE SUPPRESSION DEVICE AT PANEL (40KA PER MODE, MINIMUM).												
CKT	DESCRIPTION	BKR	P	KVA			LOAD	BKR	P	DESCRIPTION	CKT	
				A	B	C						
1	LTS-EQ. RMS, R.R.	20	1	0.40	0.70		0.30	20	1	REC-RANGE (GAS)	2	
3	LTS-GARAGE	20	1	1.06		1.26	0.20	20	1	WH (GAS)	4	
5	LTS-GARAGE	20	1	1.06			1.26	0.20	20	1	WH (GAS)	6
7	LTS-BUNK RM, KIT., ETC.	20	1	1.00	2.00		1.00	20G	1	REC-REF	8	
9	SPARE	20	1			4.60	4.60	50	2	AHU-1	10	
11	TIME CLOCK (TC)	20	1	0.10			4.70	4.60			12	
13	REC-WASHER	20	1	1.50	4.90		3.40	60	2	HP-1	14	
15	REC-WASHER	20	1	1.50		4.90	3.40				16	
17	REC-DRYER	30	2	2.50		3.50	1.00	20	1	SITE SIGNAGE	18	
19				2.50	2.70		0.20	20	*	FIRE ALARM	20	
21	REC-DRYER	30	2	2.50		2.75	0.25	20	1	EF COMPR RM	22	
23				2.50			4.10	1.60	20	1	REC-ICE MACH	24
25	AIR COMPR	80	3	5.54	6.54		1.00	20	1	REC-REF	26	
27				5.54		6.54	1.00	20	1	REC-REF	28	
29				5.54			5.54			SPARE	30	
31	GAS UNIT HTRS	20	1	1.00	1.00			30	3	SURGE PROT. DEVICE	32	
33	SITE SIGNAGE	20	1	1.00	1.00						34	
35	AHU-2	30	2	2.30		2.30					36	
37				2.30	12.63		10.33	200	3	PANEL B	38	
39	HP-2	25	2	1.50		10.79	9.29				40	
41				1.50			10.30	8.80			42	
43	SPARE	20	1		0.20		0.20	20	1	EF-3	44	
45	SPARE	20	1			0.00		20	1	SPARE	46	
47	SPARE	20	1	0.10			0.10	20	1	SPARE	48	
49	PANEL C	200	3	10.82	14.82		4.00	50	ST	RANGE	50	
51				12.75		16.75	4.00				52	
53				12.39			12.39			(SHUNT-TRIP)	54	
TOTAL CONNECTED LOAD (KVA):				138.27	KVA	384.1	AMPS					

PANEL A SERVICE LOAD CALCULATION

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING:	9.5	125%	11.9
HVAC:	33.1	100%	33.1
RECEPTACLES:	36.6		
1ST 10KVA		100%	10.0
REMAINDER		50%	13.3
MISC EQUIPMENT:	59.1	100%	59.1
TOTAL CONNECTED LOAD: 138.3 KVA = 384 AMPS @ 120/208V 3PH			
TOTAL DEMAND LOAD: 127.4 KVA = 354 AMPS @ 120/208V 3PH			



FIRE ALARM RISER

NO SCALE

FIRE ALARM SEQUENCE OF OPERATION

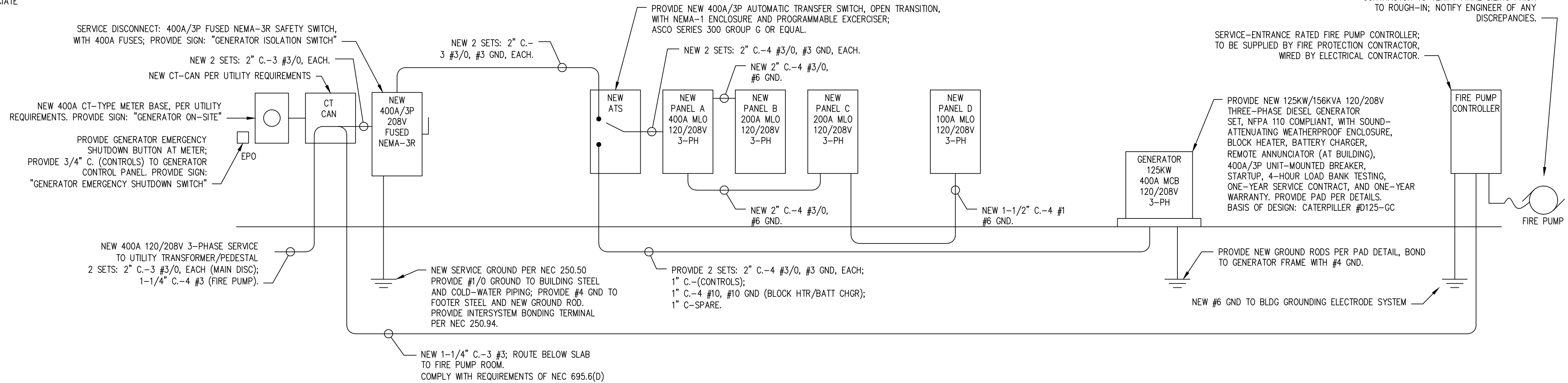
- FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES: MANUAL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, FIRE PROTECTION SYSTEM, HOOD FIRE SUPPRESSION SYSTEM, OR DUCT SMOKE DETECTORS.
- FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS: CONTINUOUSLY OPERATE ALARM-NOTIFICATION APPLIANCES; IDENTIFY ALARM AT THE FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS; TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION; RECORD EVENTS IN THE SYSTEM MEMORY.
- SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS: OPEN CIRCUITS, SHORTS, AND GROUNDS IN DESIGNATED CIRCUITS; OPENING, TAMPERING WITH, OR REMOVING ALARM-INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES; LOSS OF PRIMARY POWER AT FIRE-ALARM CONTROL UNIT; GROUND OR A SINGLE BREAK IN FIRE-ALARM CONTROL UNIT INTERNAL CIRCUITS; ABNORMAL AC VOLTAGE AT FIRE-ALARM CONTROL UNIT; BREAK IN STANDBY BATTERY CIRCUITRY; FAILURE OF BATTERY CHARGING; ABNORMAL POSITION OF ANY SWITCH AT FIRE-ALARM CONTROL UNIT OR ANNUNCIATOR.
- SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: INITIATE NOTIFICATION APPLIANCE AND ANNUNCIATE AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.

**NOTE:**  
SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

PROVIDE WARNING RIBBON PER NEC 300.5 D 3; UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18 INCHES OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 INCHES ABOVE THE UNDERGROUND INSTALLATION.

**NOTE:**  
ARC FLASH WARNING LABELS ARE REQUIRED ON ALL EQUIPMENT DESIGNATED IN NEC, ART. 110.16, INCLUDING ALL EQUIPMENT SHOWN ON THE RISER, AND ANY OTHER ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT ARE IN OTHER THAN DWELLING UNITS, AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED; EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

CALL SUNSHINE 811 OR GO ONLINE TO www.sunshine811.com, AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING TO HAVE UTILITIES LOCATED AND MARKED.



RISER DIAGRAM

NO SCALE

SEAL

NOT FOR CONSTRUCTION

SCALE: AS NOTED

APPLIED RESEARCH AND DESIGN, INC.  
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TALLAHASSEE, FL 32301  
FL CA#8948  
JAMES M. LAMB, PE#52688  
Tel: (850) 668-6324 -- E-mail: jmlamb@ard-eng.com

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: \_\_\_\_\_ MRC  
APPROVED BY: \_\_\_\_\_ JML  
CHECKED BY: \_\_\_\_\_ JML  
DATE: 4 MARCH, 2024

TITLE

RISER DIAGRAM & SCHEDULES

PROJECT NO. 50150622

E0.2

SHEET NO.

SEAL

NOT FOR CONSTRUCTION

SCALE: AS NOTED

APPLIED RESEARCH AND DESIGN, INC.  
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TALLAHASSEE, FL 32301  
FL CA#8948  
JAMES M. LAMB, PE#52688  
Tel: (850) 668-6324 -- E-mail: jlamb@ard-eng.com

REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE

DRAWN BY \_\_\_\_\_ MRC  
APPROVED BY \_\_\_\_\_ JML  
CHECKED BY \_\_\_\_\_ JML  
DATE \_\_\_\_\_ 4 MARCH, 2024

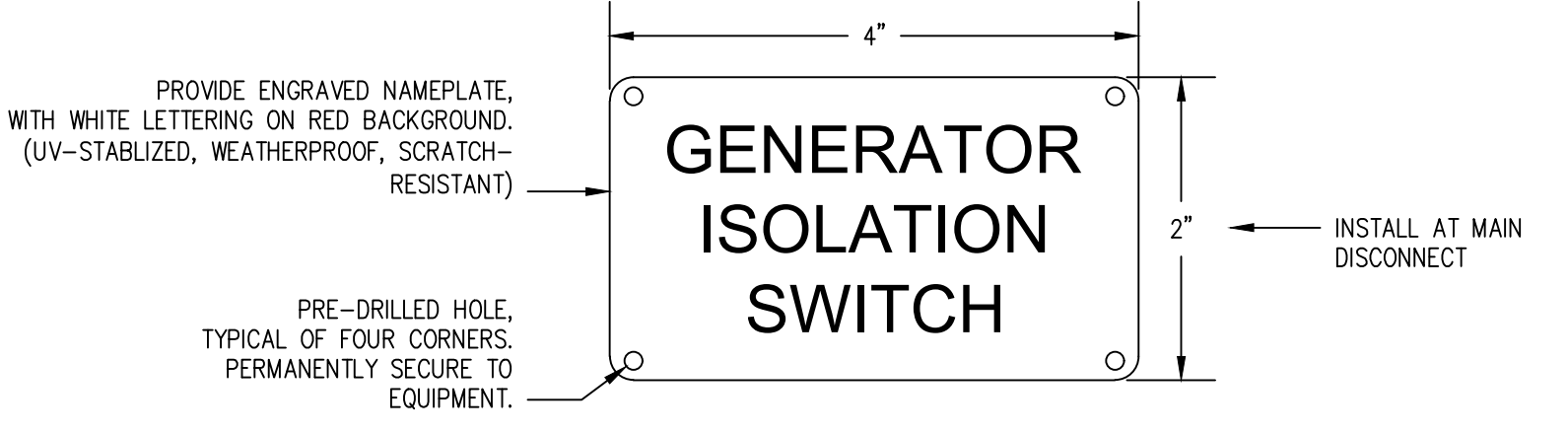
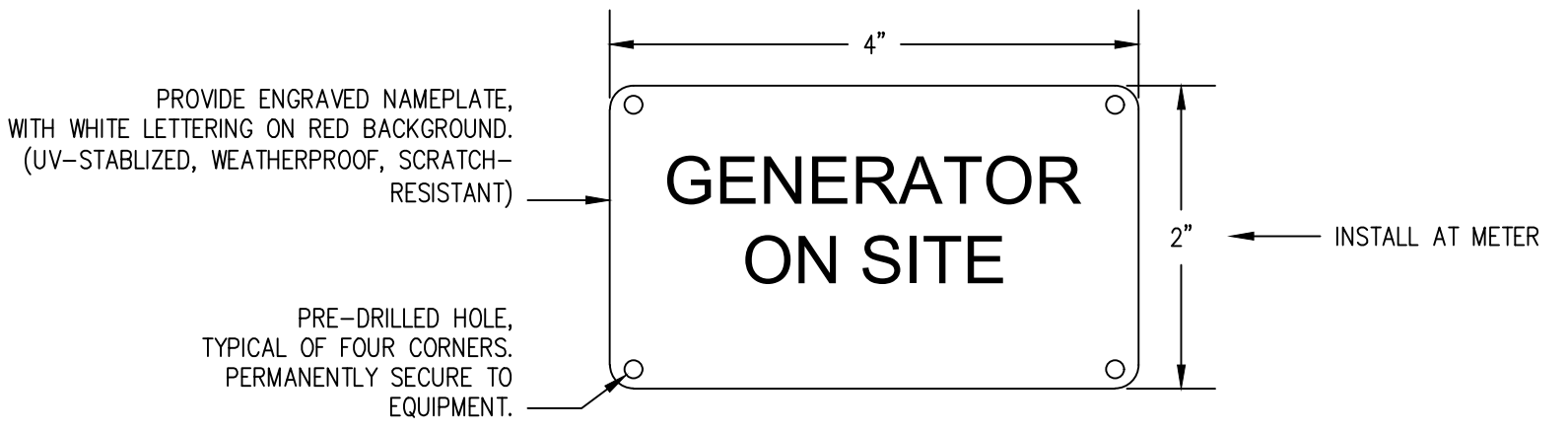
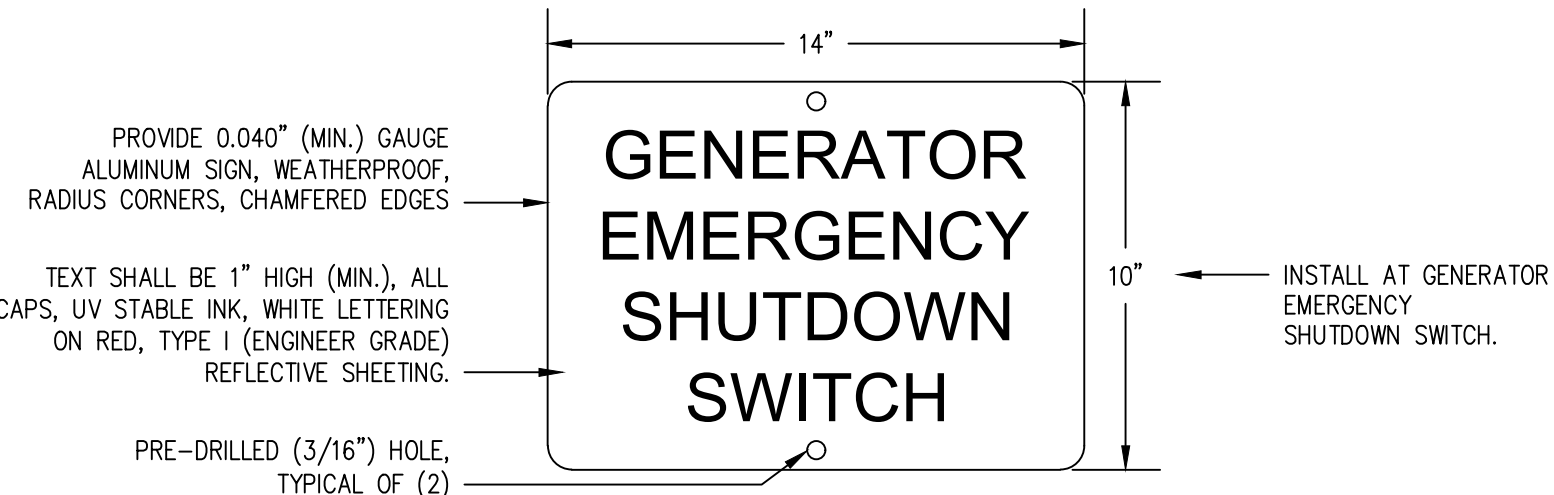
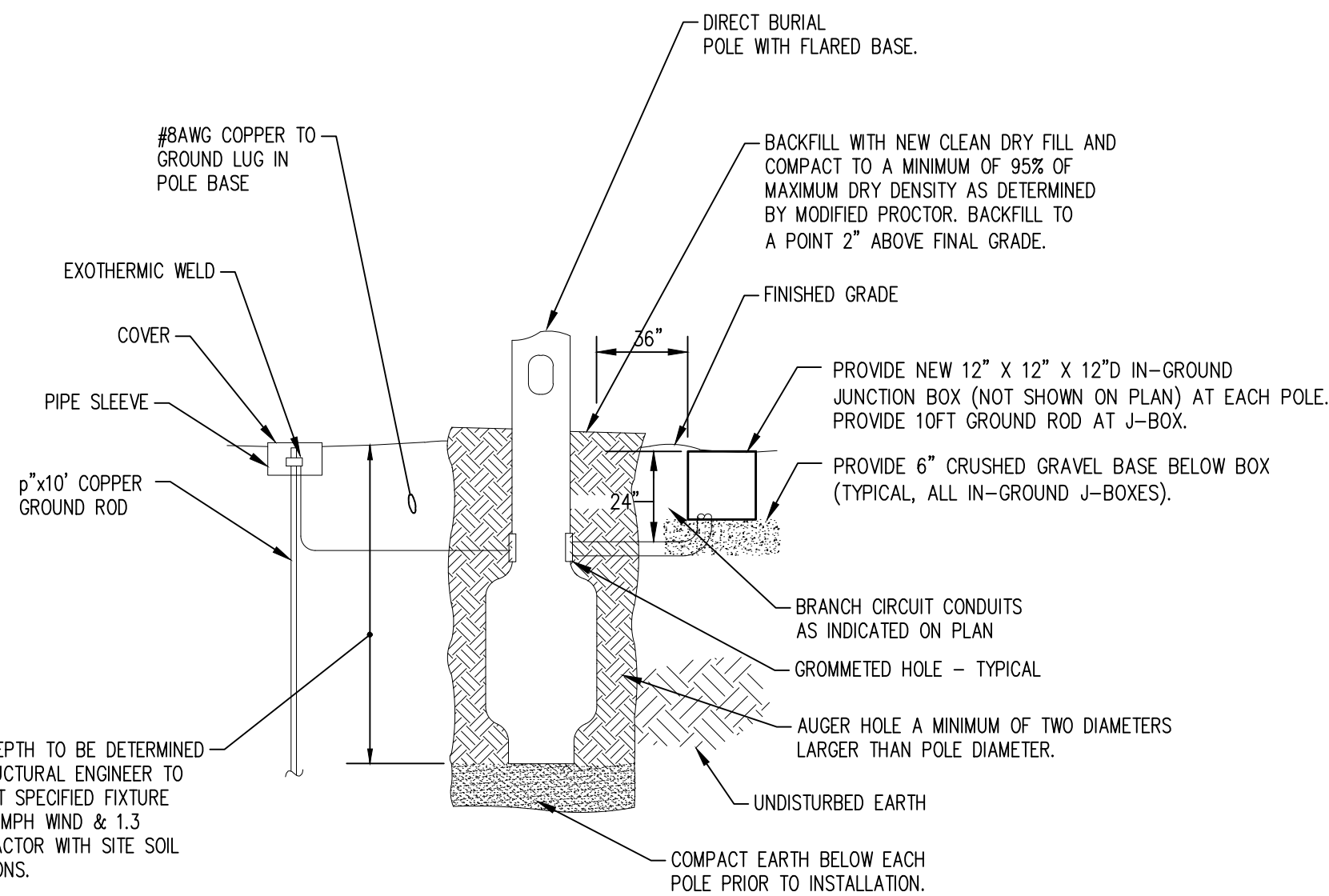
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**ELECTRICAL  
DETAILS**

PROJECT NO. 50150622

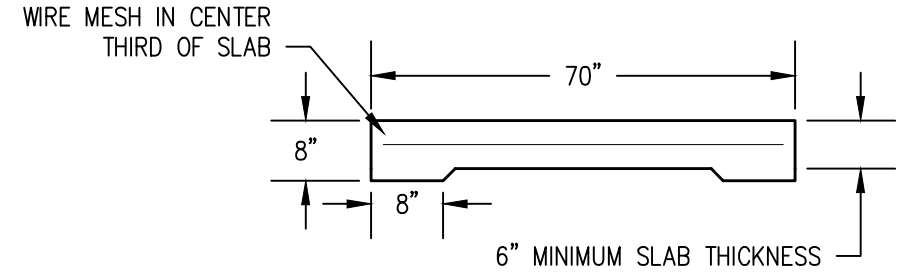
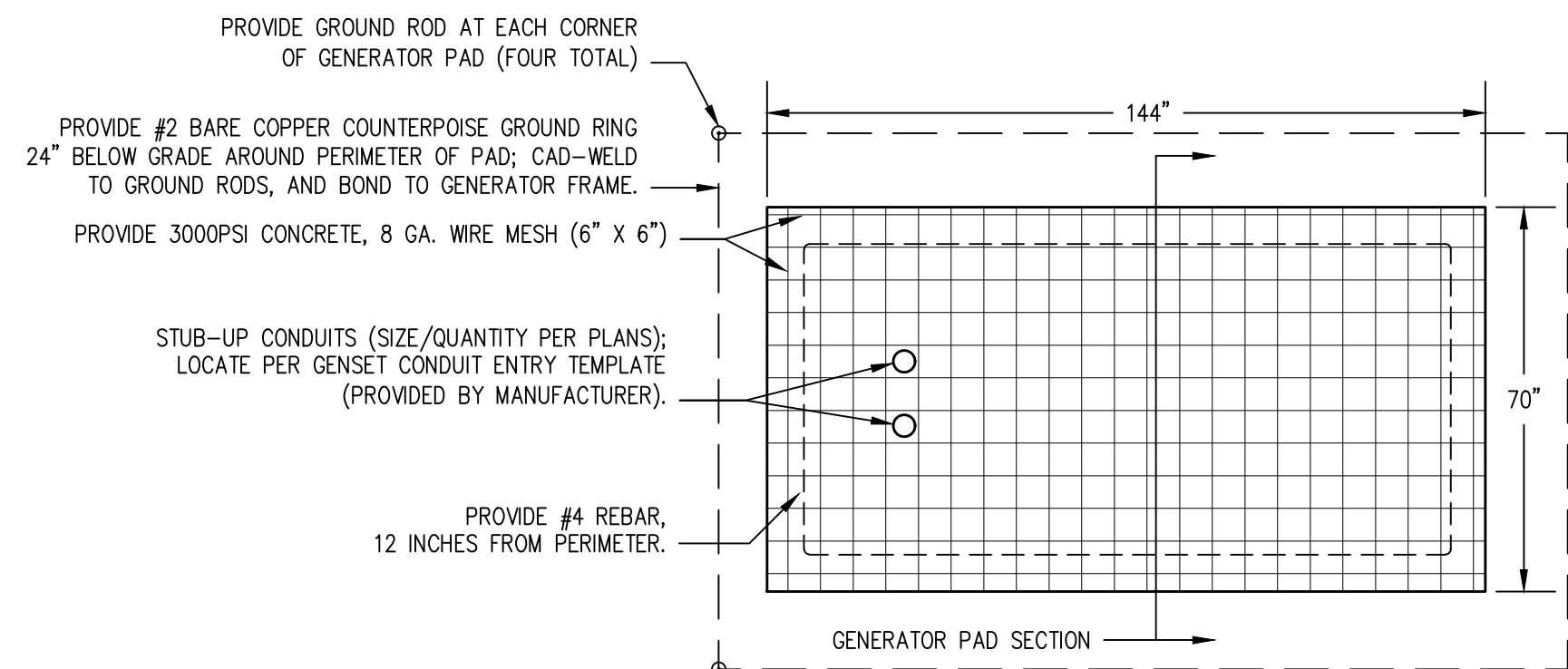
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- GENERAL SIGN NOTES:**
- SEE PLANS, ELEVATION, AND RISER FOR SIGN LOCATIONS.
  - PROVIDE ATTACHMENT MEANS AS NECESSARY TO PERMANENTLY AND SECURELY ATTACH SIGN TO EQUIPMENT.

**GENERATOR SIGN DETAILS**  
NO SCALE



- NOTES:**
- LEVEL AND COMPACT SITE AS MAY BE REQUIRED PRIOR TO FORMING PAD. GRADE TO ASSURE PAD DOES NOT CREATE DRAINAGE ISSUES.
  - ANCHOR BOLTS SHALL BE CAST INTO SURFACE OF PAD; SIZE, QUANTITY, AND LOCATION OF ANCHOR BOLTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

**Lighting Fixture Schedule**

TYPE	DESCRIPTION	MNFR/SUPPLIER	MODEL #	LAMPS	NOTES
A	4 FT LED SURFACE WRAP AROUND	H.E. WILLIAMS OR EQUAL	39-4-L52/840-A-DIM-UNV	37.2W LED	
B	4 FT LED LENSED STRIP	H.E. WILLIAMS OR EQUAL	76R-4-L52/840-DIM-UNV	35.8W LED	
C	4 FT LED WALL MOUNT WRAP AROUND	H.E. WILLIAMS OR EQUAL	76R-4-L52/840-DIM-UNV	35.8W LED	PROVIDE 10W EMERGENCY BATTERY BACKUP WHERE INDICATED
D	LED HIGH BAY	H.E. WILLIAMS OR EQUAL	GH-2-L240/840-FA-DIM-UNV	176.8W LED	MOUNT 18'-0" AFF
E1	WHITE THERMOPLASTIC LED EXIT LIGHT	CHLORIDE OR EQUAL	VERWEM	WITH UNIT	
E2	WHITE THERMOPLASTIC LED EMERGENCY/EXIT LIGHT COMBO	CHLORIDE OR EQUAL	VLTCR3R	WITH UNIT	
EM	EMERGENCY BATTERY LIGHT UNIT	CHLORIDE OR EQUAL	CLU2-N-W	WITH UNIT	MOUNT 7'-6" AFF
F1	LED WALL PACK	H.E. WILLIAMS OR EQUAL	VWP-V-L60-740-T3-DBZ-CGL-DIM-UNV	70W LED	MOUNT 17'-0" AFF
F2	LED WALL PACK	H.E. WILLIAMS OR EQUAL	VWM-L20-740-T3-DBZ-CGL-DIM-UNV	25W LED	MOUNT 8'-0" AFF
G	LED SLIM SURFACE DOWN LIGHT	LIGHTOWER OR EQUAL	S7R-840-10	14.4W LED	
P1	LED POLE MOUNTED AREA LIGHT	GARDCO OR EQUAL	ECF-S-32L-700-NW-G2-AR-4-UNV	73W LED	PROVIDE DIRECT BURY FIBERGLASS POLE, FIXTURE MOUNTING HEIGHT 20 FT AFF, 130MPH WIND LOAD
R1	GROUND MOUNTED FLAG POLE LIGHT	GARDCO OR EQUAL	DFCS SP 1200 CW-G2-UNV-BK	62W LED	PROVIDE NECESSARY MOUNTING HARDWARE AND FIELD ADJUST AIM

- NOTES:**
- VERIFY ALL CEILING FINISHES, FIXTURE TRIMS, AND VOLTAGES PRIOR TO ORDERING AND PROVIDE AS REQUIRED.
  - FIXTURES SHOWN ARE BASIS OF DESIGN; FIXTURES OF SIMILAR STYLE, PERFORMANCE, AND ELECTRICAL CHARACTERISTICS THAT ARE ACCEPTABLE TO THE OWNER AND ENGINEER WILL BE ALLOWED.
  - PROVIDE ALL LOW-VOLTAGE WIRING AS REQUIRED, FOR DIMMING AND CONTROLS.
  - PROVIDE LAMPS/BALLASTS/DRIVERS WITH ALL FIXTURES.
  - PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS AND BLOCKING AS MAY BE REQUIRED FOR INSTALLATION.
  - PROVIDE FIRE RATED BOXES OR OTHER MEANS TO MAINTAIN RATED CEILINGS WHERE RECESSED FIXTURES ARE USED.

3/10/2024 5:00:38 PM  
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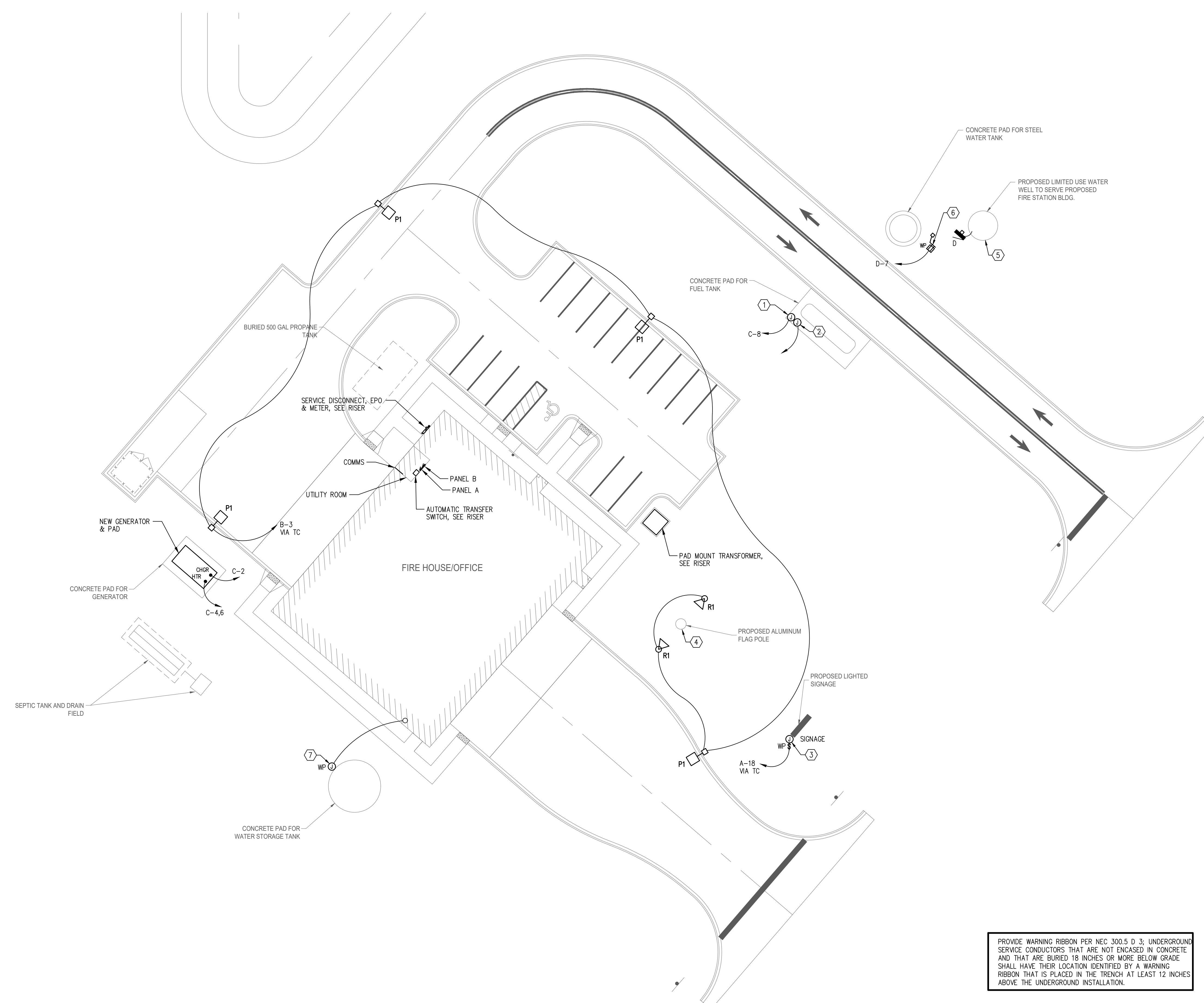
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4

5



**GENERAL NOTES:**  
(THIS SHEET ONLY)

1. PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS.
2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

**WORK NOTES:**  
(THIS SHEET ONLY)

- 1 FOR FUEL PUMP: 120V CONNECTION. PROVIDE FLUSH IN-GRADE JUNCTION BOX, 12" x 12" AS MANUFACTURED BY QUAZITE OR EQUAL WITH 1/2" C-2 312, #12 GND, TO PANEL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER. PROVIDE CONDUIT SEAL-OFFS AS REQUIRED BY CODE.
- 2 FOR FUEL PUMP: COMMS/DATA. PROVIDE FLUSH IN-GRADE JUNCTION BOX, 12" x 12" AS MANUFACTURED BY QUAZITE OR EQUAL, WITH 1" SPARE CONDUIT AND PULL STRING. STUB UP AND CAP INTO UTILITY CLOSET AT CBB. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER. PROVIDE CONDUIT SEAL-OFFS AS REQUIRED BY CODE.
- 3 FOR SITE SIGNAGE, PROVIDE FLUSH IN-GRADE JUNCTION BOX, 12" x 12" AS MANUFACTURED BY QUAZITE OR EQUAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER. PROVIDE 20A/TIP SNAP SWITCH IN WEATHERPROOF ENCLOSURE FOR DISCONNECT MEANS WITH 3/4" C-2 #10, #10 GND, TO PANEL.
- 4 FLAG POLE, VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5 WELL PUMP: (15HP) 208V, 3PH, FIELD VERIFY EXACT LOCATION WITH WELL PUMP INSTALLER PRIOR TO ROUGH-IN. PROVIDE 1-1/4" C-3 #4, #8 GND, FROM PANEL D TO TO STARTER AND CONTROLS (FURNISHED BY WELL VENDOR, WIRED BY ELECTRICAL CONTRACTOR).
- 6 PROVIDE 120V GFI WEATHERPROOF RECEPTACLE, FIELD VERIFY EXACT LOCATION WITH WATER INSTALLER PRIOR TO ROUGH-IN. PROVIDE 4X4 TREATED WOOD POST EMBEDDED IN CONCRETE TO SUPPORT SECURE OUTLET.
- 7 PROVIDE WEATHERPROOF JUNCTION BOX, SECURE TO TANK, WITH 1" CONDUIT STUBBED UP INTO FIRE PUMP ROOM AND CAP. PROVIDE PULL STRING (FOR TANK SUPERVISION AND MONITORING CONNECTIONS).

PROVIDE WARNING RIBBON PER NEC 300.5 D 3; UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18 INCHES OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 INCHES ABOVE THE UNDERGROUND INSTALLATION.

CALL SUNSHINE 811 OR GO ONLINE TO [www.sunshine811.com](http://www.sunshine811.com), AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING TO HAVE UTILITIES LOCATED AND MARKED.



877 CR 393 North  
Santa Rosa Beach, FL 32459  
850.267.0759

**GLENDALE FIRE STATION**  
**BOARD OF COUNTY COMMISSIONERS**  
**WALTON COUNTY**  
**FLORIDA**

SEAL

NOT FOR CONSTRUCTION

SCALE: AS NOTED

APPLIED RESEARCH AND DESIGN, INC.  
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JAMES M. LAMB, PE#52688  
Tel: (850) 668-6324 -- E-mail: [jlamb@ard-eng.com](mailto:jlamb@ard-eng.com)

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY		MRC
APPROVED BY		JML
CHECKED BY		JML
DATE		4 MARCH, 2024

TITLE

**SITE PLAN -  
ELECTRICAL**

PROJECT NO. 50150622

**E1.0**

SHEET NO.

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

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SCALE: AS NOTED  
**APPLIED RESEARCH AND DESIGN, INC.**  
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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY	_____	MRC
APPROVED BY	_____	JML
CHECKED BY	_____	JML
DATE	_____	4 MARCH, 2024

TITLE

**FIRST FLOOR PLAN - POWER & SYSTEMS**

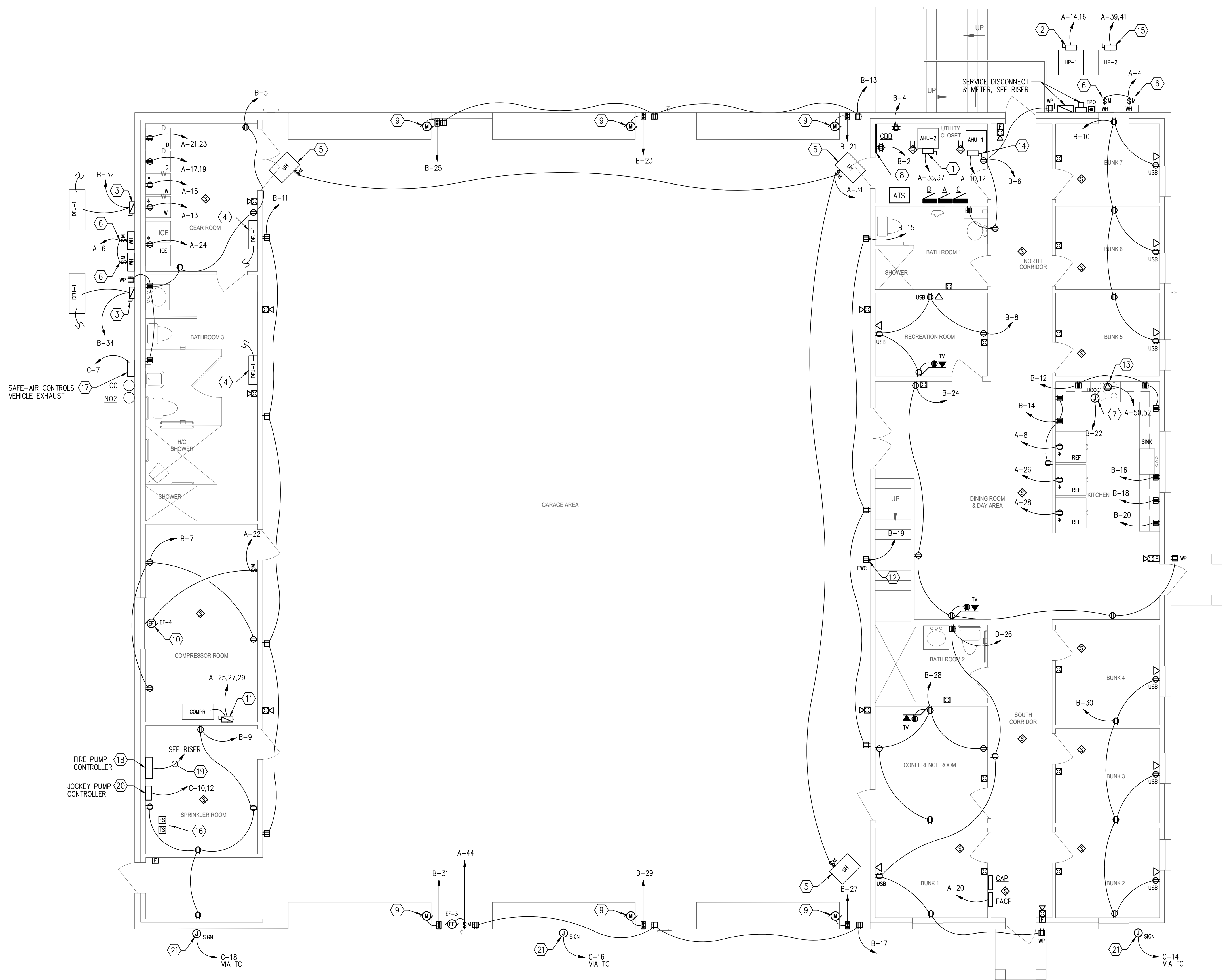
PROJECT NO. \_\_\_\_\_ 50150622

**E1.1**

SHEET NO.

- GENERAL NOTES:**  
 (THIS SHEET ONLY)
- PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS.
  - PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

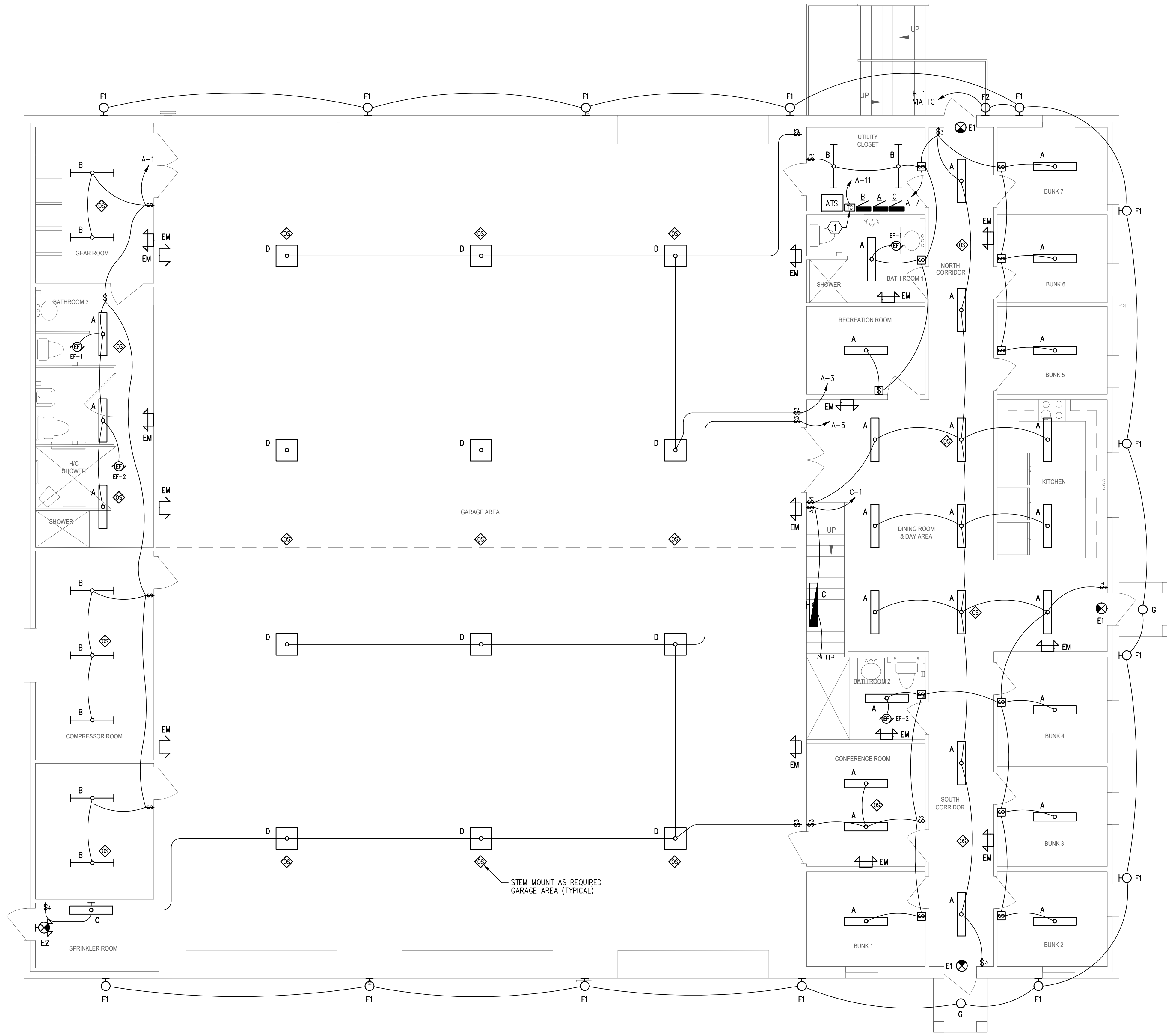
- WORK NOTES:**  
 (THIS SHEET ONLY)
- AHU-1; 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-2 #6, #10 GND, TO PANEL. PROVIDE A SIMPLEX RECEPTACLE (NOT SHOWN) FOR CONDENSATE PUMP, CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT. MOUNT AT OR NEAR AHU.
  - HP-1; 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-3R SAFETY SWITCH, WITH 3/4" C.-2 #6, #10 GND, TO PANEL.
  - DFU-1 OUTDOOR UNIT; 115V, 1PH, PROVIDE NEW 30A/2P 240V FUSED NEMA-3R SAFETY SWITCH (FUSE AS RECOMMENDED BY MANUFACTURER), WITH 3/4" C.-2 #10, #10 GND, TO PANEL. PROVIDE POWER/CONTROL CABLING PER MANUFACTURER'S REQUIREMENTS TO INDOOR UNIT.
  - DFU-1 INDOOR UNIT; 115V, 1PH, PROVIDE POWER/CONTROL CABLING PER MANUFACTURER'S REQUIREMENTS FROM OUTDOOR UNIT. PROVIDE 20A MOTOR-RATED SNAP SWITCH AT INDOOR UNIT (NOT SHOWN) FOR DISCONNECT MEANS. PROVIDE SIMPLEX RECEPTACLE (NOT SHOWN) FOR CONDENSATE PUMP IF REQUIRED, CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT. MOUNT AT OR NEAR UNIT.
  - GAS UNIT HEATER; COORDINATE EXACT LOCATION WITH MECHANICAL INSTALLER. PROVIDE NEW 20A/1P SNAP SWITCH AT UNIT FOR DISCONNECT MEANS IF NOT PROVIDED WITH UNIT. PROVIDE LINE VOLTAGE THERMOSTAT CONTROL (NOT SHOWN). PROVIDE 1/2" C.-2 #12, #12 GND, TO PANEL.
  - CWH; GAS TANKLESS WATER HEATER, PROVIDE NEW 20A/1P MOTOR-RATED SNAP SWITCH IN WEATHERPROOF ENCLOSURE FOR DISCONNECT MEANS WITH 1/2" C.-2 #12, #12 GND, TO PANEL.
  - RANGE HOOD; PROVIDE POWER CONNECTION AS SHOWN. PROVIDE FIRE ALARM CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM TO SHUNT-TRIP POWER TO RANGE UPON ACTIVATION OF HOOD FIRE SUPPRESSION.
  - PROVIDE 2'-6" x 4' x 3/4" PLYWOOD BACKBOARD AS INDICATED. PAINT WITH 2 COATS OF FIRE RETARDANT PAINT. PROVIDE COPPER GROUND BAR CONNECTED TO BUILDING SYSTEM GROUND WITH #6 AWG. PROVIDE 2" CONDUIT TO RIGHT OF WAY, COORDINATE WITH UTILITY. PROVIDE CAT-6 PATCH PANEL, AND TERMINATE/TEST ALL STATION CABLES FOR COMPLIANCE WITH CAT-6 REQUIREMENTS (INCLUDING ATTENUATION AND CROSS-TALK).
  - MOTORIZED DOOR; FIELD COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH VENDOR AND FIELD VERIFY LOCATION AND REQUIREMENTS FOR CONTROLS WITH OWNER/VENDOR PRIOR TO ROUGH-IN. PROVIDE 1/2" C.-2 #12, #12 GND, TO PANEL.
  - COMPRESSOR ROOM FAN; PROVIDE NEW 20A/1P MOTOR-RATED SNAP SWITCH AT UNIT FOR DISCONNECT MEANS IF NOT PROVIDED WITH UNIT. PROVIDE 1/2" C.-2 #12, #12 GND, TO PANEL.
  - AIR COMPRESSOR; (SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR). PROVIDE NEW 100A/3P 240V FUSED NEMA-1 SAFETY SWITCH (FUSE PER NAMEPLATE REQUIREMENTS). PROVIDE 1-1/2" C.-3 #4, #8 GND, TO PANEL.
  - EWC; IF RECEPTACLE IS ACCESSIBLE PROVIDE AS INDICATED. IF EQUIPMENT COVERS THE RECEPTACLE MAKING IT INACCESSIBLE PROVIDE A STANDARD 20A DUPLEX RECEPTACLE, WITH GFCI BREAKER AT PANEL.
  - ELECTRIC RANGE; PROVIDE 50A 120/240V RANGE RECEPTACLE, WITH 3 #6, #10 GND, TO PANEL. PROVIDE CONNECTION TO PANEL TO SHUNT-TRIP POWER UPON ACTIVATION OF FIRE PROTECTION SYSTEM.
  - AHU-2; 208V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C.-2 #10, #10 GND, TO PANEL. PROVIDE A SIMPLEX RECEPTACLE (NOT SHOWN) FOR CONDENSATE PUMP, CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT. MOUNT AT OR NEAR AHU.
  - HP-2; 208V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-3R SAFETY SWITCH, WITH 3/4" C.-2 #8, #10 GND, TO PANEL.
  - PROVIDE CONNECTIONS FOR TAMPER AND FLOW SWITCHES. VERIFY EXACT LOCATION AND QUANTITY WITH FIRE PROTECTION CONTRACTOR.
  - MECHANICAL SAFE-AIR VEHICLE EXHAUST SYSTEM CONTROLLER, PROVIDE 120V CONNECTION AS REQUIRED. COORDINATE REQUIREMENTS AND CONNECTIONS WITH INSTALLING CONTRACTOR. MAKE CONNECTIONS AS REQUIRED FOR EXHAUST FAN, 208V, 3 PH, 5HP, SEE SHEET E1.3.
  - FIRE PUMP CONTROLLER, FURNISHED BY FIRE PROTECTION CONTRACTOR, PROVIDE FIRE ALARM SUPERVISORY CONNECTIONS (PUMP RUN, LOSS OF POWER, PHASE REVERSAL, ETC.).
  - FIRE PUMP FEEDER: 1" RGSC-3 #4, #10 GND; 3FT LMFC TO MOTOR. COORDINATE EXACT LAYOUT WITH FIRE PROTECTION CONTRACTOR.
  - JOCKEY PUMP CONTROLLER; (JHP) 208V, 1PH FURNISHED BY FIRE PROTECTION CONTRACTOR. PROVIDE 3/4" C.-2 #10, #10 GND, TO PANEL. PROVIDE FEEDER TO PUMP (NOT SHOWN).
  - CIRCUIT FOR BUILDING SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SIGN INSTALLER.



**FIRST FLOOR PLAN - POWER & SYSTEMS**  
 SCALE: 3/16" = 1' - 0"

E  
D  
C  
B  
A

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2  
3  
4  
5



**GENERAL NOTES:**  
(THIS SHEET ONLY)

1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
2. ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
3. PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

**WORK NOTES:**  
(THIS SHEET ONLY)

① 2 CHANNEL 24 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY TORK OR APPROVED EQUAL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.



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**LENDALE FIRE STATION**  
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**FLORIDA**

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SCALE: AS NOTED

APPLIED RESEARCH AND DESIGN, INC.  
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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ MRC  
 APPROVED BY \_\_\_\_\_ JML  
 CHECKED BY \_\_\_\_\_ JML  
 DATE \_\_\_\_\_ 4 MARCH, 2024

TITLE

**FIRST FLOOR PLAN - LIGHTING**

PROJECT NO. \_\_\_\_\_ 50150622

**E1.2**

SHEET NO.

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

1 2 3 4 5

E  
D  
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A



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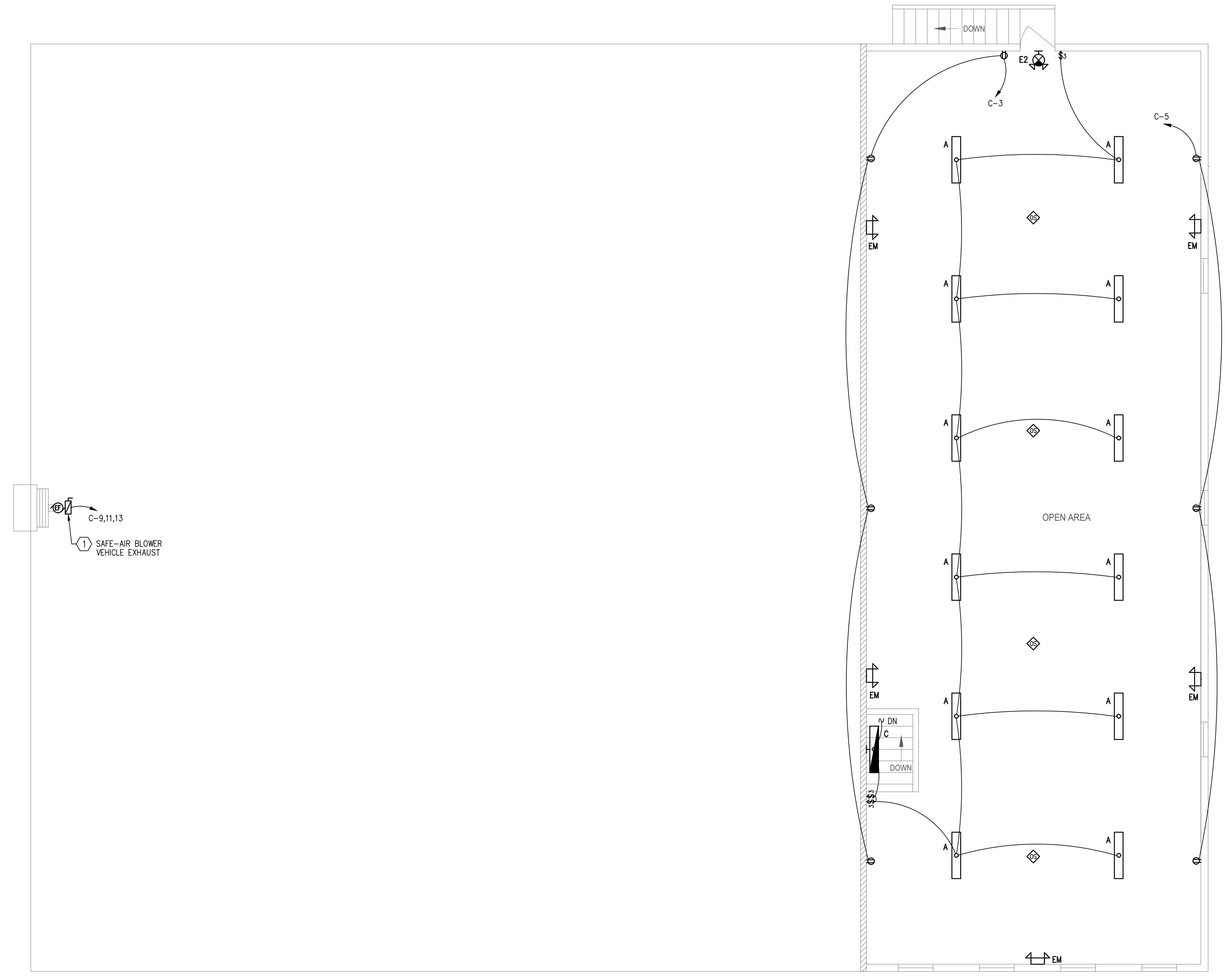
**GLENDALE FIRE STATION**  
**BOARD OF COUNTY COMMISSIONERS**  
**WALTON COUNTY**  
**FLORIDA**

**GENERAL NOTES:**  
(THIS SHEET ONLY)

1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
2. ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
3. PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

**WORK NOTES:**  
(THIS SHEET ONLY)

- ① SAFE-AIR VEHICLE EXHAUST SYSTEM; PROVIDE NEW 30A/3P 240V FUSED NEMA-1 SAFETY SWITCH (FUSED AS RECOMMENDED BY MANUFACTURER), WITH 3/4" C-3 #10, #10 GND, TO PANEL. PROVIDE CONNECTION TO OVERHEAD DOOR SWITCH TO SIGNAL FAN "ON" AND TO RUN A SPECIFIED TIME AFTER DOORS CLOSE (BOOSTER FAN WITH EXHAUST HOOK-UP). VERIFY REQUIREMENTS, VOLTAGE, SIZE, ETC. WITH VENDOR PRIOR TO ROUGH-IN AND MAKE ALL CONNECTIONS AS REQUIRED.



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SCALE: AS NOTED

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ MRC  
 APPROVED BY \_\_\_\_\_ JML  
 CHECKED BY \_\_\_\_\_ JML  
 DATE \_\_\_\_\_ 4 MARCH, 2024

TITLE

**SECOND FLOOR PLAN - ELECTRICAL**

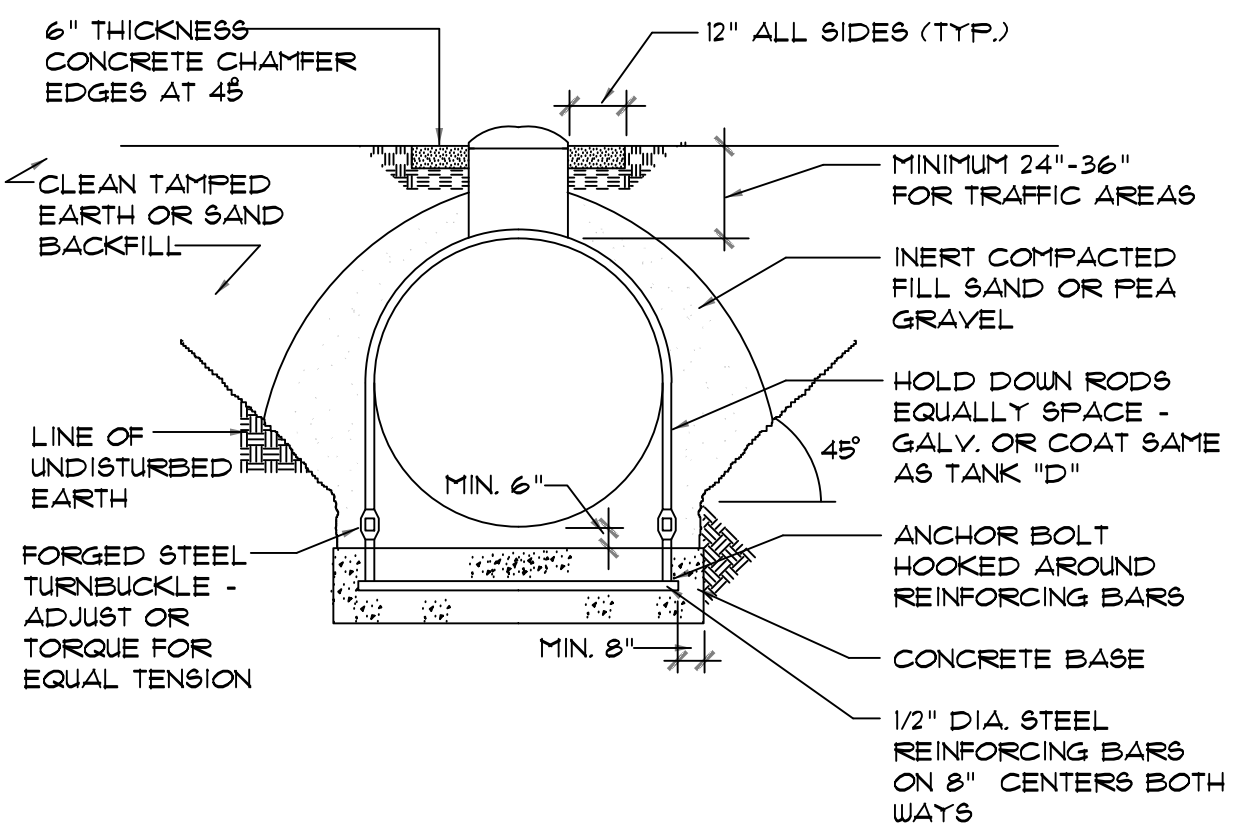
PROJECT NO. \_\_\_\_\_ 50150622

**E1.3**

SHEET NO.

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

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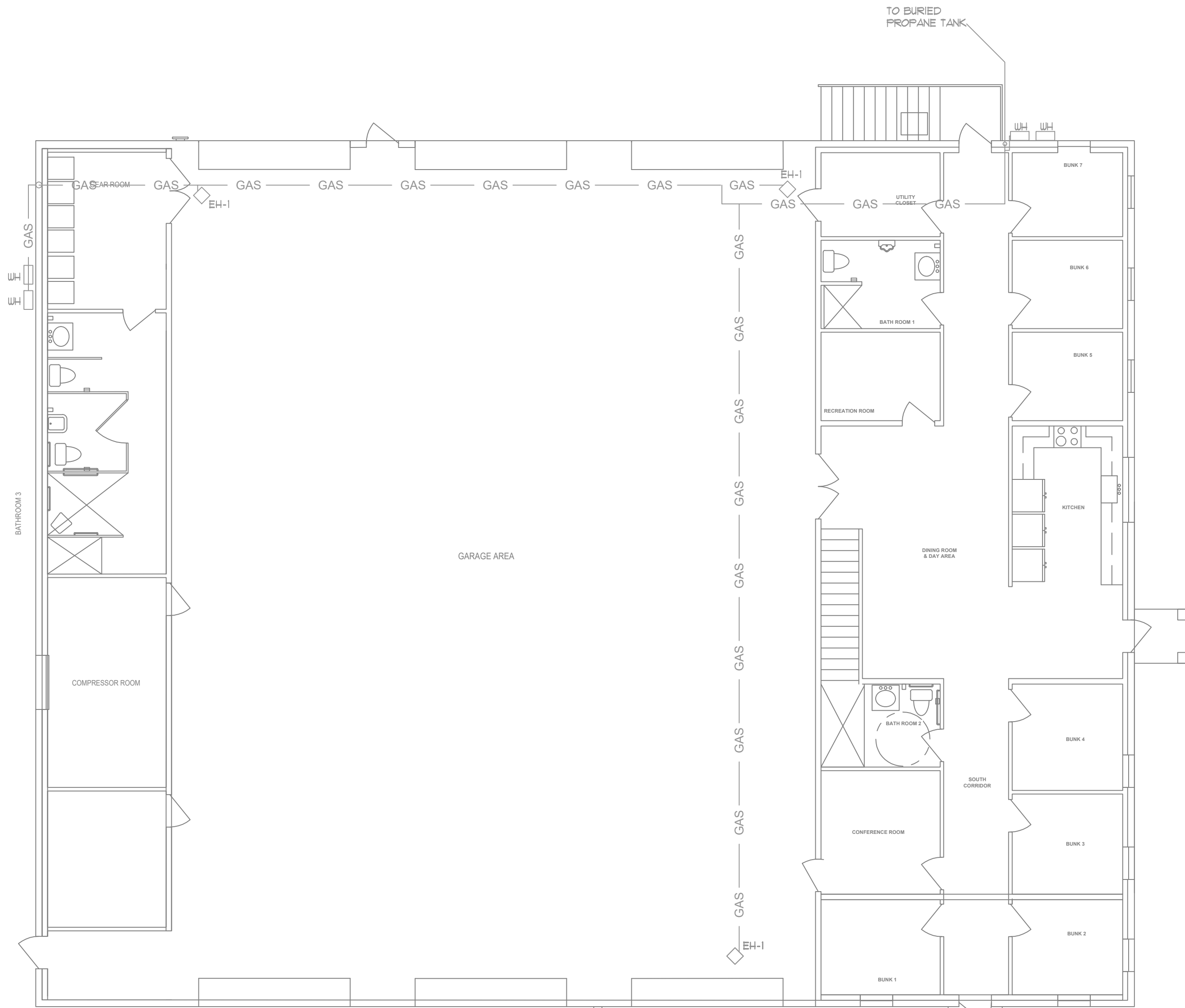


EXISTING TANK IS AN UNDERGROUND TANK. RE-APPLY PROTECTIVE COATING TO TANK WITH APPROVED COATING.

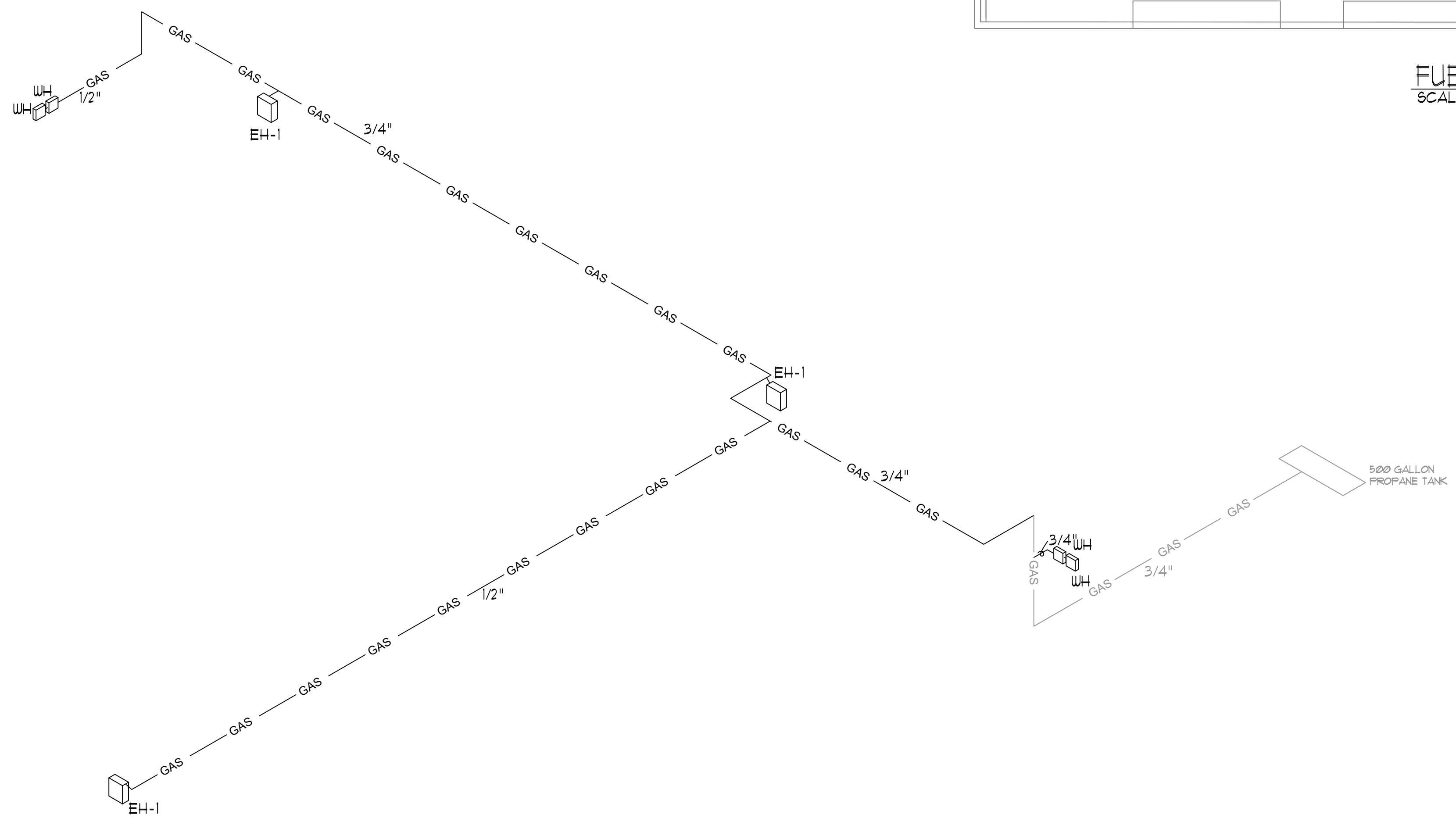
**UNDERGROUND LP GAS TANK**

N.T.S.

- GAS NOTES:**
1. GENERAL
    - A. INSTALL GAS PIPING, APPLIANCES, AND SPECIALTIES IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE 2009, NFPA-54.
    - B. CLEARANCES: UNDERGROUND GAS PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE TO AVOID CONTACT THEREWITH, TO ALLOW MAINTENANCE, AND TO PROTECT AGAINST DAMAGE FROM PROXIMITY TO OTHER STRUCTURES. IN ADDITION UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE OR SHALL BE INSULATED FROM ANY SOURCE OF HEAT SO AS TO PREVENT THE HEAT FROM IMPAIRING THE SERVICEABILITY OF THE PIPE.
    - C. COVER REQUIREMENTS: UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF 18"(460MM) OF COVER WHERE EXTERNAL DAMAGE TO THE PIPE IS NOT LIKELY TO RESULT. THE MINIMUM COVER SHALL BE 12"(300MM) WHERE A MINIMUM OF 12"(300MM) OF COVER CANNOT BE PROVIDED, THE PIPE SHALL BE INSTALLED IN CONDUIT OR BRIDGED/SHEATHED.
    - D. THROUGH FOUNDATION WALL UNDERGROUND PIPING WHERE INSTALLED THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE. THE SPACE BETWEEN THE GAS PIPING AND THE BUILDING SHALL BE SEALED TO PREVENT ENTRY OF GAS OR WATER.
    - E. PIPING UNDERGROUND BENEATH BUILDINGS WHERE THE INSTALLATION OF GAS PIPING UNDERGROUND BENEATH BUILDINGS IS UNAVOIDABLE, THE PIPING SHALL BE ENCASED IN AN APPROVED CONDUIT DESIGNED TO WITHSTAND THE SUPERIMPOSED LOADS. THE CONDUIT SHALL EXTEND INTO A NORMALLY USABLE AND ACCESSIBLE PORTION OF THE BUILDING AND, AT THE POINT WHERE THE CONDUIT TERMINATES IN THE BUILDING, THE SPACE BETWEEN THE CONDUIT AND THE GAS PIPING SHALL BE SEALED TO PREVENT THE POSSIBLE ENTRANCE OF ANY GAS LEAKAGE WHERE THE END SEALING IS OF A TYPE THAT WILL RETAIN THE FULL PRESSURE OF THE PIPE. THE CONDUIT SHALL BE DESIGNED FOR THE SAME PRESSURE AS THE PIPE. THE CONDUIT SHALL EXTEND AT LEAST 4"(100MM) OUTSIDE THE BUILDING, BE VENTED ABOVE GRADE TO THE OUTSIDE, AND BE INSTALLED SO AS TO PREVENT THE ENTRANCE OF WATER AND INSECTS.
    - F. CONNECTION OF PLASTIC PIPING: PLASTIC PIPE SHALL BE INSTALLED OUTSIDE, UNDERGROUND ONLY.
    - G. CONNECTIONS BETWEEN METALLIC AND PLASTIC PIPING: CONNECTIONS MADE OUTSIDE AND UNDERGROUND BETWEEN METALLIC AND PLASTIC PIPING SHALL BE MADE ONLY WITH ASTM D 2513 STANDARD SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING, AND FITTINGS, CATEGORY 1 TRANSITION FITTINGS.
    - H. HANGERS, SUPPORTS, AND ANCHORS: PIPING SHALL BE SUPPORTED WITH PIPE HOOKS, METAL PIPE STRAPS, BANDS, BRACKETS, OR HANGERS SUITABLE FOR THE SIZE OF PIPING, OF ADEQUATE STRENGTH AND QUALITY, AND LOCATED AT INTERVALS SO AS TO PREVENT OR DAMP OUT EXCESSIVE VIBRATION. PIPING SHALL BE ANCHORED TO PREVENT UNDE STRAINS ON CONNECTED EQUIPMENT AND SHALL NOT BE SUPPORTED BY OTHER PIPING. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF ANSI/MSS SP-58. PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN AND MANUFACTURE.
    - I. OTHER OCCUPANCIES: IN OTHER THAN INDUSTRIAL OCCUPANCIES AND WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, GAS PIPING EMBEDDED IN CONCRETE FLOOR SLABS CONSTRUCTED WITH PORTLAND CEMENT SHALL BE SURROUNDED WITH A MINIMUM OF 1"(25.4MM) OF CONCRETE AND SHALL NOT BE IN PHYSICAL CONTACT WITH OTHER METALLIC STRUCTURES SUCH AS REINFORCING RODS OR ELECTRICALLY NEUTRAL CONDUCTORS. ALL PIPING, FITTINGS, AND RISERS SHALL BE PROTECTED AGAINST CORROSION IN ACCORDANCE WITH NFPA-54. PIPING SHALL NOT BE EMBEDDED IN CONCRETE SLABS CONTAINING QUICKSET ADDITIVES OR CINDER AGGREGATE.
    - J. EACH OUTLET, INCLUDING A VALVE, SHALL BE CLOSED GAS TIGHT WITH A THREADED PLUG OF CAP IMMEDIATELY AFTER INSTALLATION AND SHALL BE LEFT CLOSED UNTIL THE GAS UTILIZATION EQUIPMENT IS CONNECTED THERETO. WHEN EQUIPMENT IS DISCONNECTED FROM AN OUTLET AND THE OUTLET IS NOT TO BE USED AGAIN IMMEDIATELY, IT SHALL BE CLOSED GAS TIGHT.
    - K. EMERGENCY SHUTOFF VALVES: AN EXTERIOR SHUTOFF VALVE TO PERMIT TURNING OFF THE GAS TO EACH LEG SERVING THE GRIDDLE TABLES. THE EMERGENCY SHUTOFF VALVES SHALL BE PLAINLY MARKED AS SUCH AND THEIR LOCATIONS POSTED AS REQUIRED BY THE AHJ.



**FUEL GAS PLAN**  
SCALE: 1/4" = 1'-0"



**FUEL GAS RISER**  
SCALE: N.T.S.

GAS LOAD:		BTUH
TANKLESS WATER HEATER 193,000 # 4		796,000
EH-1 GAS HEATERS		90,000
<b>TOTAL</b>		<b>886,000</b>

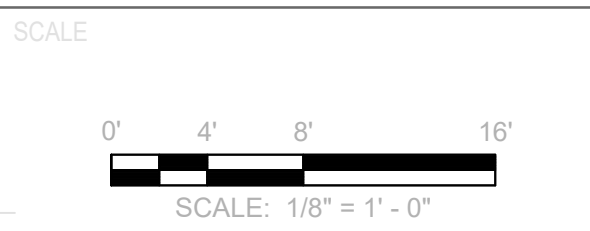
UNDILUTED PROPANE  
SIZING BASED ON 200 FT. EQUIVALENT LENGTH WITH METAL (Ø 1/2" WITH 3 PSI PRESSURE DROP, 150 SPECIFIC GRAVITY, TABLE 400.4(3)). PIPE SIZING IS BETWEEN FIRST STAGE HIGH PRESSURE REGULATOR AND SECOND STAGE LOW PRESSURE REGULATOR. PROVIDE REGULATOR AT EACH APPLIANCE AS REQUIRED. REFER TO MANUFACTURER'S DATA. UNDERGROUND PIPING SHALL BE MADE OF CORROSION RESISTANT MATERIAL WITH A FACTORY APPLIED ELECTRICALLY INSULATING COATING. PIPE SHALL HAVE A CATHODIC PROTECTION SYSTEM INSTALLED AND MAINTAINED AND MONITORED. PIPE SHALL BE BURIED MINIMUM OF 12" BELOW GRADE. PLASTIC PIPE TO HAVE A COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR.

**Dewberry**  
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GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

Winton Engineering, P.A.  
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FL 062006  
ROBIN WINTON, P.E. 56206

PRELIMINARY



REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY: RPW  
APPROVED BY: RPW  
CHECKED BY: RPW  
DATE: AUGUST 2023

**FUEL GAS PLAN**

PROJECT NO. 50150622

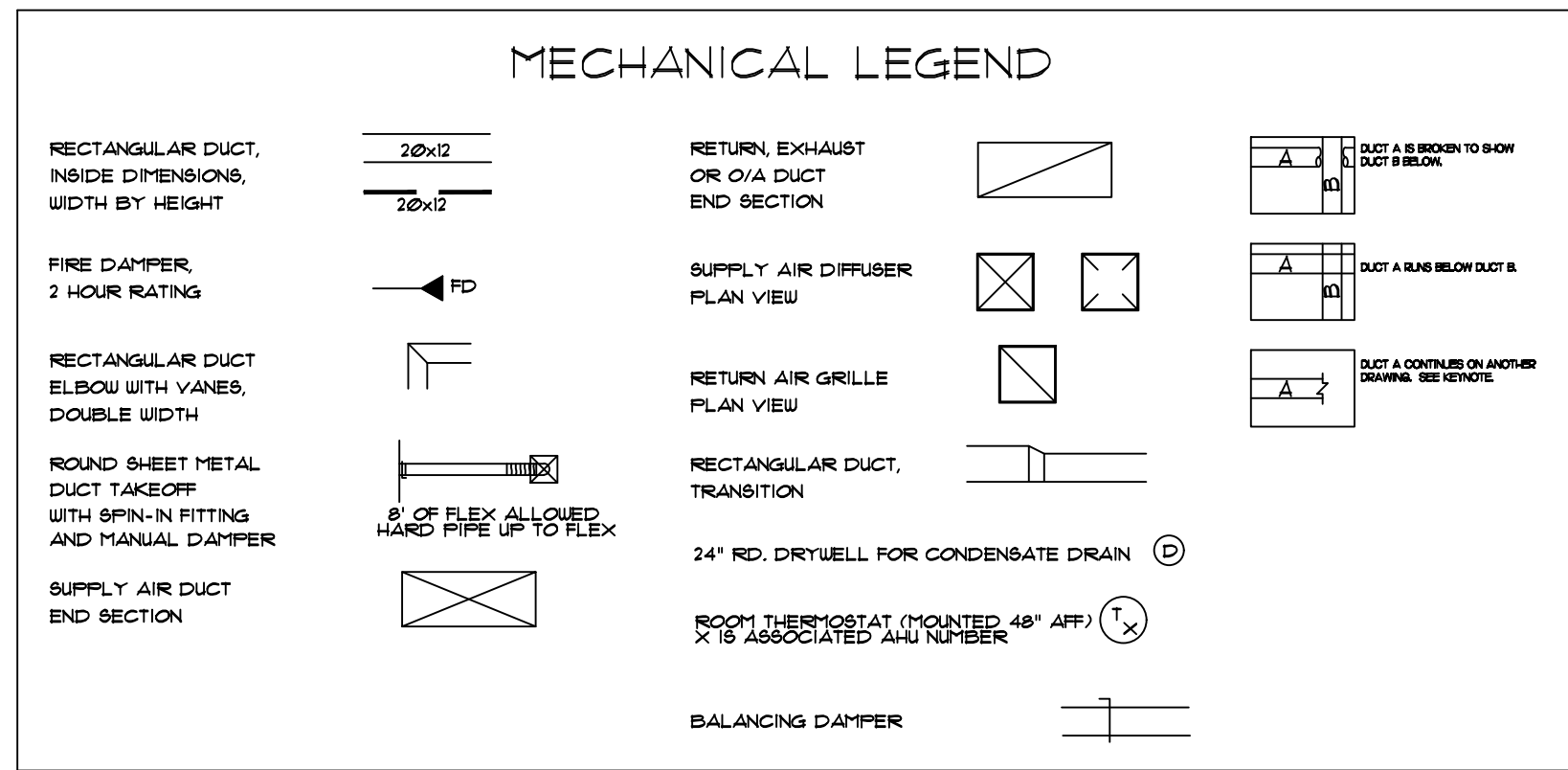
**FG1.0**

SHEET NO.

ROBIN WINTON, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56206. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROBIN WINTON ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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### HEAT PUMP SPLIT SYSTEM SCHEDULE

INDOOR UNIT DESIGNATION	AHU-1	AHU-2
OUTDOOR UNIT DESIGNATION	HP-1	HP-2
AIR QUANTITIES		
TOTAL SUPPLY AIR	CFM	1350
OUTSIDE AIR	CFM	150
HEATING AND COOLING CAPACITIES		
TOTAL HEATING CAPACITY	BTUH	42,000
SENSIBLE HEATING CAPACITY	BTUH	36,000
TOTAL COOLING CAPACITY	BTUH	48,000
AIR TEMPERATURES		
COOLING COIL ENTERING	F <sub>db</sub> -F <sub>wb</sub>	80-61
COOLING COIL LEAVING	F <sub>db</sub> -F <sub>wb</sub>	55-54
HEATING COIL ENTERING AND LEAVING	F <sub>db</sub> -F <sub>db</sub>	52-95
INDOOR UNIT DATA		
EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN. H <sub>2</sub> O	0.1
BLOWER MOTOR	HP	1/3
ELECTRICAL CHARACTERISTICS	V/PH	208-230/1
CONDENSATE DRAIN SIZE	IN.	3/4"
FILTER LOCATION		UNIT
ELECTRIC HEAT DATA		
HEATING TYPE	ELECTRIC	ELECTRIC
LOCATION	SUPPLY	SUPPLY
ACTUAL HEATING CAPACITY (NOMINAL CAP.)	KW	8
VOLTAGE	V/PH	208-230/1
OUTDOOR UNIT DATA		
NUMBER OF COMPRESSORS/NUMBER OF STAGES	NO.	1
ELECTRICAL CHARACTERISTICS	V/PH	208-230/1
MCA/MOCP	AMPS (EACH)	26.2/45
UNIT WEIGHT	LBs.	292
REFRIGERANT TYPE	R-410A	R-410A
REFRIGERANT SUCTION AND LIQUID LINE SIZES	IN.-IN.	MFG MFG
SEER/SEER2	14.3/15	14/15
COP (HEATING)	-	-
HSPF (HEATING)	8.2	8.2
MANUFACTURER	DAIKIN	DAIKIN
MODEL NUMBER (INDOOR UNIT)	AHVE48	ARUF24C
MODEL NUMBER (OUTDOOR UNIT)	D25VC848	D2148D24

- NOTES:
1. ALL AHU'S TO BE VARIABLE SPEED WITH HUMIDITY CONTROL.
  2. TSTAT TO BE HONEYWELL VISION PRO 8000 TYPE WITH HUMIDITY CONTROL.
  3. PROVIDE SINGLE POINT OF POWER.
  4. PROVIDE 2" FILTER 4 RACK.
  5. MANUFACTURE TO PROVIDE TRANSFORMER FOR ELECTRIC HEATERS.
  6. PROVIDE LONG LINE ACCESSORY FOR REFRIGERANT LINE IF NEEDED.
  7. PROVIDE CONDENSATE PUMP FOR ALL AHU'S.
  8. REFER TO MANUFACTURE FOR INSTALL AND SERVICE CLEARANCE.

### CEILING DIFFUSER SCHEDULE

SYMBOL	AIR QUANTITY	NECK SIZE	ROUND DUCT SIZE	FACE DIMENSION	LAY-IN CEILING
☒	0 - 60	6"	8"	12 X 12	24 X 24
☒	65 - 150	8"	8"	16 X 16	24 X 24
☒	155 - 195	8"	10"	16 X 16	24 X 24
☒	200 - 250	10"	10"	20 X 20	24 X 24
☒	255 - 395	10"	12"	20 X 20	24 X 24
☒	400 - 550	12"	12"	24 X 24	24 X 24
☒	555 - 595	12"	14"	24 X 24	24 X 24
☒	600 - 745	14"	14"	24 X 24	24 X 24
☒	750 - 1000	16"	16"	30 X 30	30 X 30

### CEILING RETURN AIR OR EXHAUST REGISTER SCHEDULE

SYMBOL	CFM	SIZE	ROUND SIZE *
☒	0 - 75	8 X 6	10 X 6
☒	80 - 105	10 X 6	12 X 6
☒	110 - 115	10 X 10	12 X 8
☒	120 - 210	12 X 12	14 X 8
☒	215 - 325	18 X 12	20 X 8
☒	330 - 800	24 X 24	26 X 10
☒	805 - 1000	24 X 24	26 X 12
☒	1005 - 1500	24 X 24	26 X 14

\* THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS.

1. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED.

2. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH AND SMOOTH AND MATCH EXISTING ADJOINING SURFACES.

3. SEE GENERAL REQUIREMENTS FOR ELECTRICAL AND WATER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION OF HIS CONSTRUCTION EQUIPMENT.

4. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, PLANT AND PERFORMING ALL OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH TRADE.

### EXHAUST FAN SCHEDULE

UNIT DESIGNATION	EF-1	EF-2	EF-3	EF-4	
AIR FLOW	CFM	140	70	800	380
STATIC PRESSURE	IN. WC	0.5	0.5	0.5	0.5
FAN MOTOR POWER	HP	130W	100W	295 HP	110 W
FAN SPEED	RPM	1090	732	1725	1050
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	
SONES	SONES	3.5	1.5	11	3.5
WEIGHT	LBs	10	10	20	10
ELECTRICAL CHARACTERISTICS	V/PH	115/1	115/1	115/1	115/1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	COOK	
MODEL NUMBER	SP-B150	SP-B110	SEI-10-440	GC-542	

#### NOTES:

1. MOUNT ALL EXHAUST FANS IN ACCORDANCE WITH MFG INSTRUCTIONS.
2. PROVIDE FAN SPEED CONTROLLERS FOR ALL EXHAUST FANS.
3. WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH.
4. PROVIDE BACK-DRAFT DAMPERS FOR ALL EXHAUST.
5. EF-4 TO HAVE TIME CLOCK AND OVER RIDE SWITCH IN RR OVER RIDE TO RUN FOR 15 MINUTES BEFORE SHUTTING OFF.

## MECHANICAL GENERAL NOTES

1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED SUBJECT TO THE NON TECHNICAL SPECIFICATIONS THIS SECTION APPLIES TO ALL AIR CONDITIONING, SHEET-METAL, PIPING, AND AUTOMATIC TEMPERATURE CONTROLS WORK.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES. SEE ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF WORK AND SEQUENCE OF CONSTRUCTION. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE. THEY ARE, HOWEVER, AS ACCURATE AS SCALE PERMITS AND THE CONTRACTOR SHALL FOLLOW THEM AS CLOSELY AS POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL CONDITIONS RELATING TO THE WORK IN THE FIELD PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS, AND STRUCTURAL SYSTEMS BEFORE INSTALLATION AND FABRICATION OF ANY DUCTWORK OR PIPING SYSTEMS. ALL OFFSETS REQUIRED FOR INSTALLATION OF DUCTWORK OR PIPING SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER SHALL BE THE SOLE INTERPRETER OF THE DRAWINGS.

3. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY AND SHALL BE THE PRODUCTS OF REPUTABLE MANUFACTURERS. MATERIALS AND EQUIPMENT SHALL BE PROPERLY STORED AND PROTECTED FROM THE WEATHER AT ALL TIMES DURING CONSTRUCTION TO PREVENT UNNECESSARY CORROSION AND FOUING. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY SKILLED AND COMPETENT MECHANICS. ANY WORKER CONSIDERED INCOMPETENT OR UNFIT FOR WORK ON THIS CONSTRUCTION PROJECT SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER.

4. THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC., WHETHER FEDERAL, STATE OR LOCAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY PERMITS AND PAYING ANY FEES REQUIRED IN ORDER TO PROCEED WITH THE WORK.

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL CONSTRUCTION CONFERENCES INCLUDING THE PRE-BID CONFERENCE, THE PRE-CONSTRUCTION CONFERENCE AND THE OWNER'S PROGRESS MEETINGS AS SCHEDULED BY THE ARCHITECT OR THE OWNER. FAILURE TO MAKE REFERENCES IN THE SPECIFICATIONS TO ANY ITEMS OF THE WORK SHOWN BY THE DRAWINGS AND NECESSARY TO THE COMPLETION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY TO FURNISH THE MATERIALS AND PERFORM THE WORK OF SUCH ITEMS IN A MANNER COMPARABLE TO OTHER ITEMS OF SIMILAR NATURE FOR WHICH DETAILED SPECIFICATIONS ARE INCLUDED. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CLEARLY SET FORTH ALL WORK AND THE DETAILED DESCRIPTION IS ADDED TO ASSIST IN ESTABLISHING THE SCOPE AND THE LOCATION OF THE SEVERAL PARTS OF THE WORK. COLLECTIVELY, THEY SHALL GOVERN AND CONTROL THE SCOPE, CHARACTER AND DESIGN OF THE WORK, AND ANY ITEM CALLED FOR IN ANY ONE OF THE DOCUMENTS SHALL BE AS THOUGH REQUIRED IN ALL.

6. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH AND SMOOTH AND MATCH EXISTING ADJOINING SURFACES.

7. SEE GENERAL REQUIREMENTS FOR ELECTRICAL AND WATER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION OF HIS CONSTRUCTION EQUIPMENT.

8. ALL FINISHED FIELD INSTALLED PRESSURE PIPING SYSTEMS SHALL BE TESTED.

9. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, PLANT AND PERFORMING ALL OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH TRADE.

10. THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED.

1. FLORIDA BUILDING CODE, 2020 1TH EDITION.
2. FLORIDA PLUMBING CODE, 2020 1TH EDITION.
3. FLORIDA MECHANICAL CODE, 2020 1TH EDITION.
4. NFPA 10 NATIONAL ELECTRICAL CODE
5. NFPA 101 LIFE SAFETY CODE
6. NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
7. NFPA 91, STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS
8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

THE FOREGOING RULES, STANDARDS, REGULATIONS, SPECIFICATIONS, RECOMMENDATIONS AND REQUIREMENTS SHALL BE FOLLOWED BY THE CONTRACTOR AS MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIALS AND WORKMANSHIP WHICH ARE SPECIFIED HEREIN OR INDICATED ON THE DRAWINGS.

11. THE INTERIOR FACE OF DUCTWORK HOUSING SUPPLY, RETURN OR EXHAUST AIR DIFFUSERS, REGISTERS OR GRILLES SHALL BE PAINTED "FLAT-BLACK" SO WHEN VIEWED FROM BELOW AND ABOVE NOTHING BEYOND SURFACE OF AIR DEVICE IS VISIBLE.

12. THERMOSTAT/SENSOR WIRING TO BE RUN INSIDE WALLS/COLUMNS OR IN ATTIC SPACE. THE USE OF WIREMOLD OR EXTERNAL RACEWAY SHALL BE APPROVED BY THE ENGINEER.

13. A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUPPLIED BY AN INDEPENDENT CERTIFIED TEST AND BALANCE AGENCY. TO THE ENGINEER IN WRITING PER AABC TEST AND BALANCE REPORT MANUAL (LATEST EDITION) PRIOR TO JOB ACCEPTANCE BY OWNER. THE REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

14. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF/HERSELF WITH THE PLANS, SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.

15. ALL POWER WIRING, RELAYS, PANELS, TRANSFORMERS, DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, PANELS, SENSORS OR THERMOSTATS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

16. ALL DUCTS TO HAVE AIR EXTRACTORS (ADJUSTABLE TYPE) ON SQUARE OR RECTANGULAR TAKEOFFS WITH SPIN-IN VOLUME DAMPERS OR ROUND OR OVAL TAKE-OFFS. SPIRAL DUCT TAKE-OFFS HAVE NO EXTRACTORS. INSTALL FLEXIBLE DUCT CONNECTORS AT ALL FANS AND AIR HANDLING UNITS.

17. FLEXIBLE DUCTS MUST COMPLY WITH UL 181 AND SHALL NOT EXCEED EIGHT FEET IN LENGTH REMAINING BRANCH LINE SHALL BE GALVANIZED METAL WITH 2" EXTERNAL INSULATION. FLEXIBLE DUCTS SHALL HAVE FOIL BACKING (FSK TYPE).

18. ANY CONDENSATION ON SURFACES OF HVAC EQUIPMENT, DUCTWORK OR PIPING WILL BE CORRECTED BY THE CONTRACTOR. WRAP WITH INSULATING TAPE OR EXTERNAL INSULATION HAVING A VAPOR BARRIER.

19. INSULATION OUTSIDE OF THE BUILDING SHALL BE WRAPPED WITH ALUMINUM INSIDE ALL SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTS SHALL BE GALVANIZED METAL, COMPLETELY SEALED, FINISHED WITH 2" EXTERNAL INSULATION HAVING VAPOR RETARDING JACKET (FSK TYPE). INSULATION SHALL COMPLY WITH UL 181 AND MUST HAVE FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 50.

20. ROOM SENSORS OR THERMOSTATS SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.

21. THERMOSTATS TO BE 1 DAY PROGRAMMABLE WITH DIGITAL DISPLAY. PROVIDE AND INSTALL A LOCK BOX FOR ALL THERMOSTATS.

22. SMOKE DETECTORS (SEE DRAWINGS) SHALL BE IONIZATION TYPE AS APPROVED BY THE ENGINEER. COORDINATE THE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL VERIFY THAT DETECTORS ARE COMPATIBLE WITH FIRE ALARM SYSTEMS. IF UNIT SELECTION IS NOT COMPATIBLE THE CONTRACTOR SHALL PURCHASE AND INSTALL PROPER UNIT TO INSURE LIFE SAFETY PROTECTION. SMOKE DETECTORS SHALL AUTOMATICALLY SOUND AUDIBLE ALARM AND TURNOFF FANS.

23. FURNISH AND INSTALL ACCESS DOORS (18"x18" MINIMUM) IN ALL DRYWALL CEILINGS FOR ACCESS TO MECHANICAL EQUIPMENT.

24. COORDINATE THE INSTALLATION OF ALL AUX. COND. DRAINS LOCATED IN WALLS WITH THE GENERAL CONTRACTOR. COORDINATE THE INSTALLATION OF ALL MAIN COND. DRAINS LOCATED IN WALLS AND CHASES WITH THE PLUMBING CONTRACTOR.

25. THE CONTRACTOR SHALL NOT FABRICATE ANY AIR DISTRIBUTION DUCTWORK UNTIL IT HAS BEEN VERIFIED THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR THE INSTALLATION OF HVAC SYSTEMS. CONSIDERING REQUIREMENTS FOR PIPING, LIGHT FIXTURES, CEILING SYSTEMS, FLOOR SYSTEMS, FOUNDATIONS, AND STRUCTURES. IF A CONFLICT ARISES CONTACT THE ENGINEER FOR PERMISSION TO REROUTE SYSTEM. ALL DUCTWORK SHALL BE ROUTED AT THE EXPENSE OF THE CONTRACTOR.

26. DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING BY THE ENGINEER. APPROVAL WILL NOT BE GIVEN UNLESS THE ENGINEER IS SATISFIED THAT THE PROPOSED SYSTEMS ARE SUPERIOR IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.

27. APPROVALS OF EQUIPMENT OR SYSTEMS OTHER THAN THAT SHOWN MUST BE WITHIN TEN (10) WORKING DAYS PRIOR TO BID DATE.

28. ALL DUCT AND PIPE SIZES SHOWN ARE CLEAR NET INSIDE DIMENSIONS.

29. ALL AIR DISTRIBUTION DUCTWORK SHALL BE AIR TIGHT AND FREE OF LEAKS, AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FAN UNITS OR FINISHED FLOOR/CEILING SYSTEM. DUCTWORK SHALL BE SEALED WITH AIR DUCT SEALER PER SHACMA STANDARDS AND UL RATING.

30. EQUIPMENT, DUCTWORK, DAMPERS, LOUVERS, GRILLES, REGISTERS, DIFFUSERS, OTHER AIR DISTRIBUTIONS, EQUIPMENT AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

- (A) ASHRAE
- (B) SBCCI
- (C) SHACMA
- (D) NFPA
- (E) AMCA STANDARD HANDBOOK 99
- (F) AIR DISTRIBUTION COUNCIL TEST CODE 106/103
- (G) SBCCI STANDARD MECHANICAL CODE
- (H) ANSI
- (I) ASME
- (J) ASH

31. INSULATE ALL REFRIGERANT LINES WITH 3/4" ARMAFLEX OR EQUIVALENT INSULATION. PROVIDE WITH WEATHERPROOF ALUMINUM JACKET ON LINES OUTSIDE.

32. ALL MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES (UL) OR NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).

33. REFRIGERANT PIPING SHALL BE SIZED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR LIQUID, VAPOR, HORIZONTAL AND VAPOR RISERS.

34. TUBING SHALL BE INSTALLED WITH MOISTURE INDICATOR SIGHT GLASS LOCATED IN THE LIQUID LINE ADJACENT TO THE OUTDOOR UNIT.

35. THOROUGHLY CLEAN REFRIGERANT PIPE FITTINGS BEFORE ASSEMBLY. ALL JOINTS ARE TO BE MADE WITH SILVER ALLOY BRAZE MELTING ABOVE 1000 DEGREES F. NO ACID FLUX IS TO BE USED ON ANY JOINT.

36. ALL CONDENSATE DRAINS SHALL TERMINATE INTO ROOF GUTTER. SECURE TO ROOF BEAMS WITH APPROVED CLIP.

37. ALL WORK AND MATERIALS SHALL BE WARRANTED (PARTS AND LABOR) FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. AN ADDITIONAL WARRANTY (PARTS ONLY) SHALL INCLUDE 4 YEARS ON ALL COMPRESSORS, WITH NINE YEARS ON ALL HEAT EXCHANGERS.

38. CONTRACTOR SHALL SUPPLY TO THE ENGINEER 6 SETS OF SUBMITTALS ON THE FOLLOWING ITEMS:

- A. AIR DISTRIBUTION (DIFFUSER, GRILLE AND REGISTERS)
- B. HEATING/AIR CONDITIONING EQUIPMENT
- C. DAMPERS
- D. FANS
- E. INSULATION MATERIALS
- F. CONTROLS
- G. PIPING

NOTE: THESE ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONTRACTOR ORDERING.

39. ALL FEES, PERMITS, TAPS, LICENSE, INSURANCE, AND BONDS SHALL BE PAID BY THIS CONTRACTOR FOR ALL RELATED WORK.

40. ROUTE REFRIGERANT PIPING AS SHOWN ON DRAWINGS. MANUFACTURE TO SIZE REFRIGERANT PIPING.

41. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

### SPECIFICATIONS:

System	Size	DFU-1
Outdoor Model		38MARBQ09AA3
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
Electrical	MCA	A, 15
MOCP - Fuse Rating	A,	15
Operating Range	Cooling Outdoor DB Min - Max	°F(°C) -22-122 (-30-50)
Heating Outdoor DB Min - Max	°F(°C)	-22-86 (-30-30)
Total Piping Length	ft (m)	82 (25)
Piping	Piping Lift	ft (m)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)
Refrigerant	Refrigerant Type	R410A
Metering Device		EEV
Charge	lbs (kg)	2.6 (1.18)
Outdoor Coil	Face Area Sq. Ft.	4.7
No. Rows		2
Fins per inch		20
Circuits		4
Compressor	Type	Rotary Inverter
Model		KTN110D42UFZ
Oil Type		VG74
Oil Charge	Fl. Oz	11.8
Rated Current	RLA	6.0
Unit Width	in (mm)	31.68 (805)
Unit Height	in (mm)	24.21 (615)
Unit Depth	in (mm)	12.99 (330)
Net Weight	lbs (kg)	74.07 (33.6)
Airflow	CFM	1,324
Sound Pressure	dB(A)	54.5

#### STANDARD FEATURES

- Variable Speed (Inverter)
- Factory installed Base Pan Heater
- Factory installed Crankcase Heater
- Low Voltage Controls
- Auto-Restart function
- Condenser High Temp Protection
- Modes: Cool, Heat, Dry, Fan, Auto
- Quiet operation
- Anti-corrosive fin coating

### SPECIFICATIONS:

Size	DFU-1
Indoor Model	40MPHBQ09XA3
Electrical	
Voltage-Phase-Cycle	V/Ph/Hz
Power Supply	Indoor Unit Powered From Outdoor Unit
MCA	A, 0.3
Operating Range	
Cooling Indoor DB Min - Max	° F (° C) 62-90 (17-32)
Heating Indoor DB Min - Max	° F (° C) 32-86 (0-30)
Piping	
Pipe Connection Size - Liquid	in (mm) 1/4 (6.35)
Pipe Connection Size - Suction	in (mm) 3/8 (9.52)
Indoor	
Unit Width (W)	in (mm) 35.2 (895)
Unit Height (H)	in (mm) 11.7 (298)
Unit Depth (D)	in (mm) 9.8 (248)
Net Weight	lbs (kg) 28.66 (13)
Number of Fan Speeds	4
Airflow (lowest to highest)	CFM 144/245/295/345
Cooling Sound Pressure (lowest to highest)	dB(A) 29/35.5/41.5/45.6
Heating Sound Pressure (lowest to highest)	dB(A) 30.5/36/40.5/44.5
Air throw Data	ft (m) 21.98 (6.7)
Moisture Removal	Pint/h (L/h) 2.11 (1.0)
Field Drain Pipe Size O.D.	in (mm) 0.625 (16)

ROBIN WINTON, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56206. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROBIN WINTON ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



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GLENDALE FIRE STATION  
 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA

Winton Engineering, P.A.  
 Robin Winton, P.E.  
 2201 WOODBINE DR











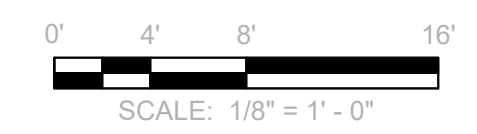
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ROBIN WINTON, P.E. 56206

PRELIMINARY

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	RPW
APPROVED BY	RPW
CHECKED BY	RPW
DATE	AUGUST 2023

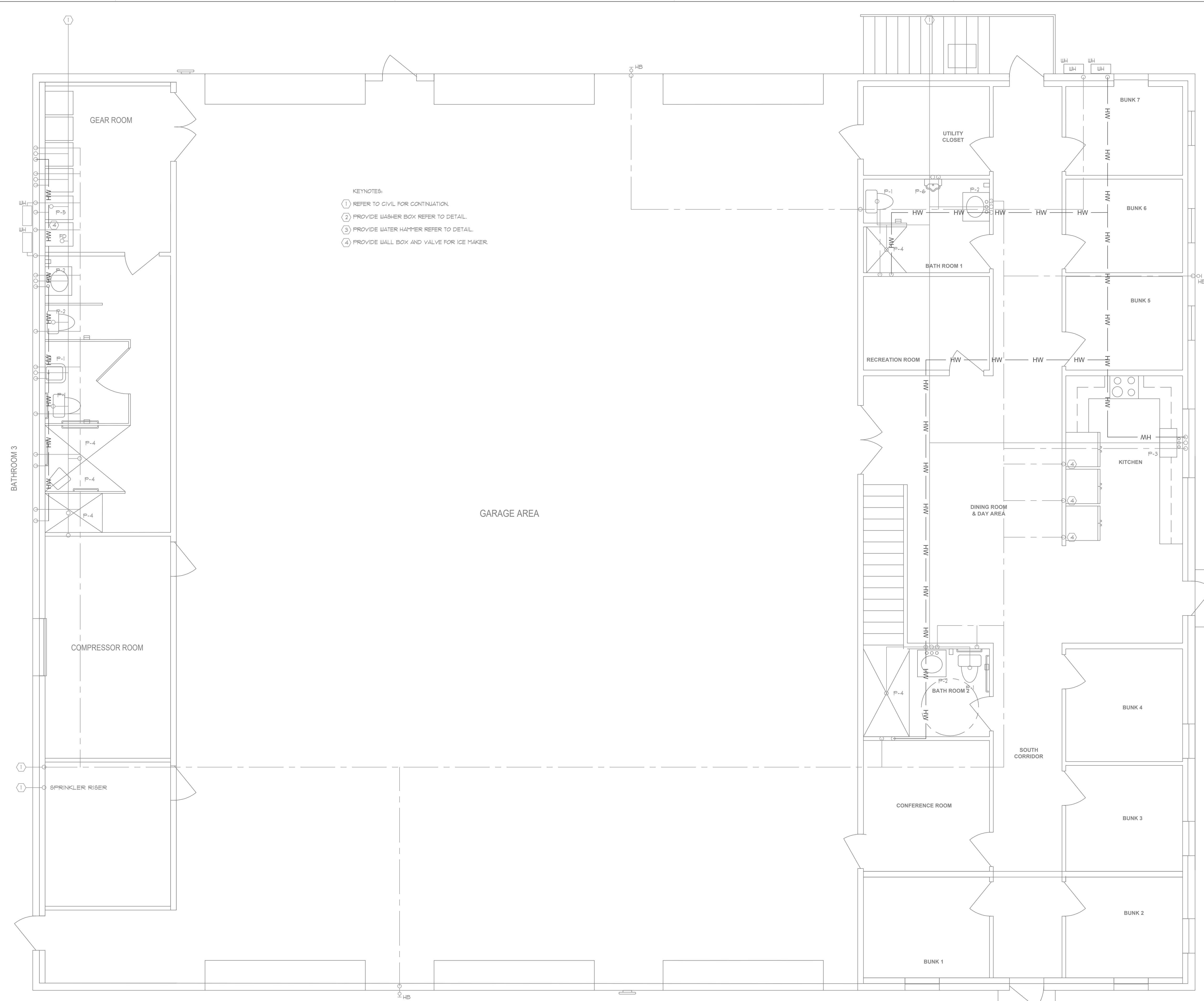
TITLE

**PLUMBING PLAN**

PROJECT NO. 50150622

**P2.0**

SHEET NO.



- KEYNOTES:
- ① REFER TO CIVIL FOR CONTINUATION.
  - ② PROVIDE WASHER BOX REFER TO DETAIL.
  - ③ PROVIDE WATER HAMMER REFER TO DETAIL.
  - ④ PROVIDE WALL BOX AND VALVE FOR ICE MAKER.

**PLUMBING PLAN**  
 SCALE: 1/4" = 10"

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