

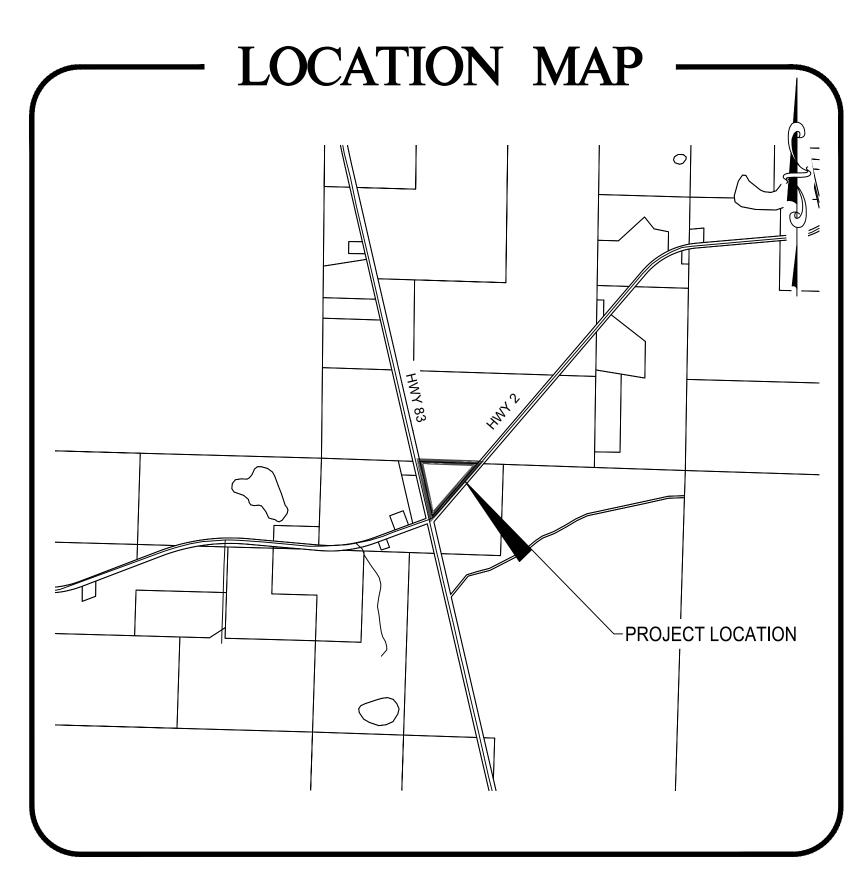
# **CONSTRUCTION PLANS FOR:**

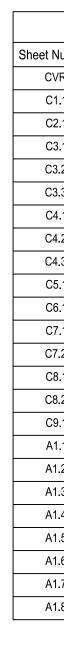
# GLENDALE FIRE STATION

# PREPARED FOR: BOARD OF COUNTY COMMISSIONERS WALTON COUNTY, FLORIDA

PROJECT NUMBER - 50150622 JANUARY 2024

		C	ONSTRUCTION SEQU	JENCE				
	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8
OVED								
JRES								
BING	-							
WER								
TIES								
ΓΙΟΝ								
ΓΙΟΝ								
PING								
HED								





•		

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

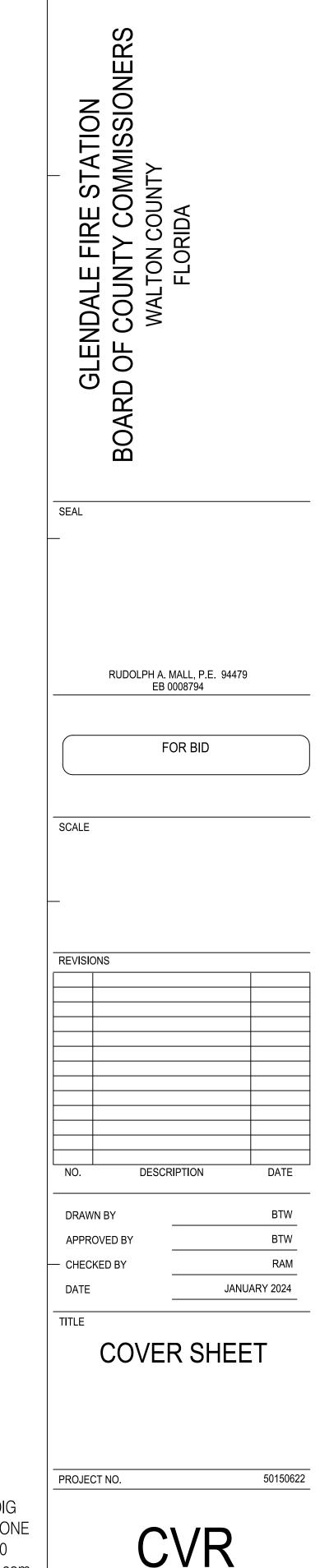
Sheet List Table				
lumber	Sheet Title			
′R	COVER SHEET			
.1	GENERAL NOTES AND LEGEND			
2.1	MASTER DEVELOPMENT PLAN			
5.1	EXISTING CONDITIONS			
.2	EROSION CONTROL			
.3	STORMWATER POLLUTION PREVENTION AND PROTECTION PLAN			
.1	SITE LAYOUT PLAN			
.2	SITE GEOMETRY PLAN			
.3	SITE GEOMETRY PLAN			
5.1	UTILITY PLAN			
5.1	ROADWAY PROFILES			
′ <u>.</u> 1	PAVING AND DRAINAGE			
.2	PAVING AND DRAINAGE			
3.1	CONSTRUCTION DETAILS			
.2	CONSTRUCTION DETAILS			
9.1	LANDSCAPE PLAN			
.1	FLOOR PLAN			
.2	FOUNDATION PLAN			
.3	ROOF AND TRUSS PLAN			
.4	ELEVATIONS			
.5	CROSS SECTIONS AND DETAILS			
.6	FOUNDATION DETAILS			
.7	GENERAL NOTES			
.8	LIFE SAFETY PLAN			
	1			



48 HOURS BEFORE YOU DIG CALL SUNSHINE ONE 1-800-432-4770 www.callsunshine.com

	Dewberry <sup>.</sup>
--	-----------------------

877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759



	1	2
E	<ul> <li>GENERAL NOTES:</li> <li>THE CONTRACTORS SHALL NOTIFY THE ENGINEER OF RECORD OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.</li> <li>THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING PRIVATE AND PUBLIC UTILITIES, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. EXISTING UTILITIES ARE APPROXIMATE AND BASED ON PREVIOUS DESIGN, SURVEY. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY AND ALL UTILITIES AS REQUIRED BY THE PLANS, AND UTILITY COMPANIES TO CONSTRUCT THE PROPOSED IMPROVEMENTS. UNLESS OTHERWISE STATED, CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF SAID RELOCATION. IF NECESSARY CONTRACTOR SHALL ALSO NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL (800–432–4770) AT LEAST 2 FULL DAYS PRIOR TO EXCAVATION OR DEMOLITION. NOTE NOT ALL UTILITIES ARE UNDER THIS PROGRAM SO CONTRACTOR SHALL ENSURE TO THE BEST EXTENT CONTACT WITH ACTUAL COMPANIES. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER WHEN ANY INFRASTRUCTURE IS BEING PUT IN PLACE FOR ANY CONFLICT RESOLUTIONS. DEPTHS OF UTILITIES ON THESE PLANS ARE APPROXIMATE AND NOT ALL UTILITIES ARE LOCATED.</li> </ul>	TELEPHONECENTURYLINK411 B MARY ESTHER CUT OF FORT WALTON BEACH, FL. FSUNSHINE STATE ONE-CALL 605 WEST GARDEN STREET ORLANDO, FL. 32809 PH:3. CENTURYLINK WILL COMPLETE ALL W WORK.4. ALL CABLE DAMAGE MUST BE REPORT
	<ol> <li>CONTRACTOR WILL COORDINATE WITH GEOTECHNICAL ENGINEER TO ENSURE THAT TESTING IS DONE FOR ALL SOILS, ASPHALT, AND BASE THAT IS ON THE PROJECT.</li> <li>ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE WALTON COUNTY AND OTHER PERMITTING AGENCIES SHALL BE COMPLIED WITH IN EVERY DETAIL.</li> <li>ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY OR ENGINEER OR DESIGNEE. CONTRACTOR SHALL ALSO REFER TO FDOT STANDARD INDEX FOR ROADWAYS THAT NEED TO BE REPAIRED DUE TO UTILITY CONSTRUCTION.</li> <li>THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM</li> </ol>	<ul> <li>6. UTILITIES ARE TO REMAIN AND BE POTHER PAY ITEMS AND SHALL BE TO THE PAY ITEMS AND SHALL BE TO LAYOUT NOTES:</li> <li>1. THE ELEVATIONS AS SHOWN HEREON</li> </ul>
	<ul> <li>THE CONTRACTOR SHALL TARE STEPS NECESSART TO FICTENT EROSION AND ANT OFF SHE SEDIMENT HANSFORT RESOLING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT SPECIFICATION 104, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, LATEST EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.</li> <li>THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ALSO MAINTAIN</li> </ul>	<ol> <li>IT IS THE CONTRACTORS RESPONSIB UTILITIES WILL BE ENCOUNTERED DU PROTECTION.</li> <li>REFERENCE BENCHMARKS EXISTS ON</li> </ol>
_	EROSION CONTROL DEVICES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE AND ENTERING THE EXISTING STORMWATER SYSTEM. THE EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL (SWPPP) PLANS ARE THE MINIMUM REQUIRED AND SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE INSPECTOR TO CONTROL SEDIMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STORMWATER RUNOFF SHALL BE CONTROLLED DURING THE COURSE OF CONSTRUCTION. IMPACT TO OFFSITE IS NOT ANTICIPATED. ALSO, THE CONTRACTOR SHALL REFER TO THE "FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL" FOR ADDITIONAL EROSION CONTROL MEASURE AND ALTERNATIVES. ALTERNATIVES BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER AND INSPECTOR. CONTRACTOR SHALL SEEK APPROVAL FROM COUNTY AND THE ENGINEER OF RECORD FOR ANY SUBSTITUTIONS TO THE EROSION CONTROL MEASURES.	<ol> <li>CONTRACTOR SHALL CONTACT THE E ENCOUNTERED DURING THE COURSE</li> <li><u>STORMWATER SYSTEM MAINTENANCE:</u></li> <li>CONTRACTOR SHALL STAGE AND TIME THE SOIL AREA AND FINISHING THE</li> <li>IT SHALL BE THE RESPONSIBILITY OF HAS BEEN PREVIOUSLY SPECIFIED AS</li> </ol>
D	<ul> <li>8. ALL DISTURBED AREAS ON PROJECT SITE SHALL BE SODDED, UNLESS OTHERWISE NOTED ON THE PLANS. ALL SODDING SHALL BE PINNED ON SLOPES GREATER THAN 3:1 TO PREVENT EROSION. DISTURBED AREAS OUTSIDE THE SILT FENCED PERIMETER SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. ALL DISTURBED AREAS TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH QUICK GROW SEED AND MULCH. THE CONTRACTOR SHALL WARRANTY FOR A MINIMUM OF 1 YEAR AFTER ACCEPTANCE (OR LONGER AS SPECIFIED ELSEWHERE).</li> <li>9. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. OWNER OR ITS DESIGNEE WILL ASSIST THE CONTRACTOR WITH REQUIRED PERMITS.</li> </ul>	<ul> <li>3. THE CONTRACTOR IS TO PROVIDE EF</li> <li>3. THE CONTRACTOR IS TO PROVIDE EF</li> <li>SPECIFIED IN THE CONSTRUCTION DF</li> <li>AND WETLAND OR JURISDICTIONAL AI</li> <li>QUANTITIES OF MATERIAL ARE TRANS</li> <li>CONDITIONS TO THE SATISFACTION OF</li> </ul>
_	<ol> <li>THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.</li> <li>IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY OKALOOSA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF ANY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND</li> </ol>	<ol> <li>CONSTRUCTION OF THE ROADWAY AN SUPPLEMENTS.</li> <li><u>EROSION CONTROL NOTES:</u></li> <li>EROSION PROTECTION: SOIL EROSIO THEREFORE, EROSION PROTECTION, SOIL</li> </ol>
С	<ul> <li>APPROVAL.</li> <li>12. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.</li> <li>13. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.</li> <li>14. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.</li> <li>15. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, "DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS", SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE</li> </ul>	<ol> <li>CONSTRUCTION.</li> <li>SILT FENCE BARRIER SHALL BE INST</li> <li>SOD ALL SLOPES 3:1 OR STEEPER.</li> <li>CONTRACTOR SHALL RETAIN ALL SOII</li> <li>ALL DISTURBED AREAS NOT SPECIFIC PARTS BERMUDA AND 80 PARTS PEI DURING THE MONTHS OF OCTOBER</li> </ol>
	LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE WALTON COUNTY TECHNICAL SPECIFICATIONS. CONTRACTOR MAY SUBSTITUTE FDOT ITEMS FOR THE INFRASTRUCTURE CONSTRUCTION; ANY SUBSTITUTIONS SHALL HAVE A MINIMUM 50 YEAR LIFESPAN. CONTRACTOR WILL BE REQUIRED TO PROVIDE DESIGNS OR VERIFICATION OF SUBSTITUTE. ALL SIGNS REFERRED TO IN THE PLANS SHALL BE IN ACCORDANCE WITH MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) LATEST EDITION. ALL STRUCTURES THAT ARE SUBSTITUTED SHALL HAVE OPENINGS SIMILAR TO THOSE NOTED IN THE FDOT INDEX OR THOSE SPECIFIED ON THE PLANS. 16. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.	<ol> <li>100 POUNDS PER ACRE. SEEDED A ACRE.</li> <li>ALL AREAS TO BE GRASSED AND MU</li> <li>FUNCTIONAL EROSION AND SILTATION THE CONSTRUCTION PLANS IMMEDIAT</li> <li>ALL EROSION CONTROL STRUCTURES</li> <li>CONSTRUCT FILTER FENCES, HAY BA</li> </ol>
_	<ol> <li>17. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND NWFWMD. OF ENGINEERS REQUIREMENTS IF REQUIRED.</li> <li>18. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.</li> <li>19. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE PRESERVED UNLESS OTHERWISE NOTED IN PLANS.</li> <li>20. ALL COMPACTED FILL SHALL BE PLACED IN FOUR INCH (4") LIFTS FOR HAND POWERED TAMPERS AND EIGHT INCH (8") LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.</li> </ol>	<ol> <li>STRIP THE TOP SOIL AND STOCK PII</li> <li>INSTALL UTILITIES AND DRAINAGE PIF ENTERING THE DRAINAGE SYSTEMS.</li> <li>CONSTRUCT DRAINAGE, PARKING AND PROTECTION MEASURES.</li> <li>FINAL GRADE THE SITE AND LANDSC.</li> <li>NO HEAVY EQUIPMENT IN NATURAL A</li> </ol>
В	<ol> <li>MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 102.</li> <li>PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPE LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.</li> <li>TEMPORARY BENCHMARKS HAVE BEEN ESTABLISHED ON THIS PROPERTY WHICH SHOULD BE USED BY THE CONTRACTOR DURING CONSTRUCTION. DESCRIPTIONS OF THE BENCHMARKS CAN BE FOUND IN THESE PLANS.</li> <li>ALL UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES SHALL BE INSTALLED PRIOR TO CURB AND BASE CONSTRUCTION.</li> </ol>	<ul> <li>15. ALL DISTURBED AREAS SHALL BE SAFOLLOWING AREAS:</li> <li>a. ALL SLOPES 3:1 AND STEEPER.</li> <li>b. ENTIRE AREA BETWEEN SIDEWALKS</li> <li>c. INTERIOR SLOPES OF PONDS AND PONDS AND SWALES.</li> <li>d. IN A TWO-FEET WIDE STRIP ALON AND OUTER EDGES OF ALL SIDEW SPECIFIED. CONTRACTOR SHALL</li> </ul>
N\50150622_COVER.DWG	<ul> <li>25. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED TESTING WITH THE SOILS ENGINEER. PAYMENT FOR TESTING WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.</li> <li>26. THE CONTRACTOR SHALL ADJUST ALL VALVE BOX AND MANHOLE CASTINGS TO MATCH FINAL SURFACE ELEVATIONS.</li> <li>27. AS-BUILTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE AS-BUILT SURVEY INDICATES AN AREA OF INCOMPLETE OR UNACCEPTABLE WORK, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE NECESSARY REPAIRS, AS DIRECTED BY THE ENGINEER, OR OWNER. CONTRACTOR WILL BE REQUIRED TO PROVIDE UPDATED AS-BUILTS TO DEMONSTRATE COMPLIANCE WITH THE PLANS AND PERMITS. ALL FINAL AS-BUILT SURVEYS ARE REQUIRED TO BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR.</li> <li>UTILITY NOTES:</li> </ul>	SATISFACTORILY STABILIZED. <u>CONSTRUCTION SEQUENCE:</u> 1. CONTRACTOR WILL BE RESPONSIBLE COMPANIES, ENGINEER AND ALL OTH TO COMMENCEMENT OF ANY PROJEC WITHOUT NAILING TO ANY TREE ON 2. THE CONTRACTOR SHALL ENSURE TH AND SEDIMENTATION CONTROL INSPE
S:\50082540 WALTON COUNTY\50150622_GLENDALE FIRE STATION_CIVIL3DFOLDER\_PRODUCTION\50150622_COVER.DWG $W_{I}$	<ol> <li>THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.</li> <li>UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.</li> <li><u>KNOWN UTILITIES OWNERS INCLUDE:</u> <u>WATER/SEWER</u> BECIONAL UTILITIES</li> </ol>	<ul> <li>CONSTRUCTION ACTIVITIES. CONSTRUCT</li> <li>STORMWATER EROSION AND SEDIMEN</li> <li>PRIOR TO CLEARING, A SILT FENCE</li> <li>SIDE SHALL BE INSTALLED AS SHO</li> </ul>
150622_GLENDALE FIRE STA	REGIONAL UTILITIES 4432 US HWY 98 E SANTA ROSA BEACH, FL. PH: (850) 231–5114 <u>ELECTRIC – GULF POWER</u> MR. TOM RICHARDSON 140 HOLLYWOOD BLVD SW FORT WALTON BEACH, FL. PH: (850) 833–4881	<ol> <li>DURING THE CLEARING, GRUBBING A WITH RYE GRASS APPLIED AT MANUF POUNDS OF STRAW PER ACRE. ALL UTILIZED UNTIL THE AREA ACHIEVES AS NEEDED DURING CONSTRUCTION. SHALL ALSO PREPARE DIVERSION BE</li> </ol>
S:\50082540 WALTON COUNTY\501	NATURAL GAS – OKALOOSA GAS DISTRICT MR. GLENN BAILEY 20 HUGHES ST NE FORT WALTON BEACH, FL. PH: (850) 729–4700 <u>CABLE – COX CABLE</u> 320 RACETRACK ROAD NW FORT WALTON BEACH, FL. PH: (850) 862–4142	<ol> <li>ALL SEDIMENT IS TO BE CAPTURED REMOVED AND RESTORED INCLUDING</li> <li>CONSTRUCT UTILITIES AND OTHER IM</li> <li>TEMPORARY SEEDING SHALL BE RYE INACTIVE MORE THAN 7 DAYS. SOD PLACED UNDER STORMWATER DISCHA THE DIRECTION OF FLOW. SOD SHAL</li> </ol>

- OFF PH: (850) 244-1150
- (800) 432-4770
- ORTED TO THE COX CABLE REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR PHONE.
- WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND
- PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO TO THE SATISFACTION OF THE UTILITY OWNERS.
- N ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (1988).
- BILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER URING THE COURSE OF THE WORK AND TAKE ALL NECESSARY STEPS TO PROVIDE FOR UTILITY
- N THIS PROPERTY AS SHOWN HEREON.
- ENGINEER IMMEDIATELY REGARDING ANY APPARENT CONFLICTS IN THE PROPOSED IMPROVEMENTS E OF CONSTRUCTION.
- E CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING SOIL AREA.
- F THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER ON CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY DAMAGE TO THE CONSTRUCTED ITEM ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR ITEM AT NO CHARGE TO THE OWNER.
- ROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE ISPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- CONCRETE ARE TO BE CHAMFERED 3/4".
- AND DRAINAGE SYSTEMS SHALL CONFORM TO THE MOST RECENT FDOT ROAD AND BRIDGE MANUAL AND
- SION SEDIMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF
- TALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.
- L EROSION SEDIMENTATION ON-SITE.
- ICALLY SHOWN TO BE SODDED SHALL BE GRASSED AND MULCHED. THE GRASS SEED SHALL BE 20 ENSACOLA BAHIA. APPLICATION SHALL BE 100 POUNDS PER ACRE. IF CONSTRUCTION OCCURS THROUGH JANUARY, SEEDING SHALL BE 50 PARTS WINTER RYE AND 50 PARTS PENSACOLA BAHIA AT AREAS SHALL BE FERTILIZED WITH 8-8-8 NPK DRY FERTILIZER AT THE RATE OF 800 POUNDS PER
- MULCHED SHALL HAVE A MINIMUM OF ONE INCH OF TOPSOIL DISTRIBUTED PRIOR TO SEEDING.
- I CONTROLS SHALL BE INSTALLED AS NEEDED THROUGHOUT THE CLEARED AREAS AND AS SHOWN ON ATELY SUBSEQUENT TO ESTABLISHED ROUGH GRADE.
- S SHALL BE IN PLACE BEFORE DEMOLITION BEGINS.
- ALES AND TREE BARRICADES.
- PILE FOR USE IN LANDSCAPED AREAS.
- IPES PROTECTING INLETS WITH STAKED HAY BALES OR FILTER FENCE TO PREVENT SEDIMENT FROM CONSTRUCT STORMWATER MANAGEMENT CONTROL STRUCTURES. (FILTRATION, RATE CONTROL, ETC.) O OTHER IMPROVEMENTS AS SHOWN ON THE PLANS; MAINTAIN SEDIMENTATION, EROSION AND TREE
- CAPE AS PER PLANS AND SPECIFICATIONS, STABILIZING ALL DISTURBED AREAS.
- AREAS, ALL PLANTING TO BE DONE BY HAND.
- ATISFACTORILY STABLILIZED. UNLESS OTHERWISE SPECIFIED, SOD SHALL BE PROVIDED IN THE
- S AND BACK OF CURB.
- ) SWALES, AND IN A TWO-FOOT WIDE STRIP ALONG THE TOP OF BANK OF ALL ONG ALL BUILDINGS, STRUCTURES, ROADS WHERE NO SIDEWALKS RUN PARALLEL, WALKS. OTHER AREAS MAY BE SEEDED AND MULCH, UNLESS OTHERWISE MAINTAIN GRASSED UNTIL PLANTS HAVE TAKEN ROOT AND THE AREA IS
- FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE WALTON COUNTY, UTILITY THER PARTIES REQUIRED FOR COMMENCEMENT OF PROJECT. THIS MEETING SHALL TAKE PLACE PRIOR CT RELATED ACTIVITIES. AT THIS TIME PRIOR TO ANY CONSTRUCTION THE PERMIT MUST BE POSTED SITE.
- THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, PECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING JCTION SHALL NOT COMMENCE UNTIL INFORMATION (NAME AND PHONE NUMBER) OF CERTIFIED ENT CONTROL INSPECTOR HAS BEEN PROVIDED TO THE COUNTY AT THE PRE-CONSTRUCTION MEETING.
- BACKED WITH 4' HOG WIRE FENCE (TRENCHED 8 INCHES DEEP AND BACKFILLED ON THE UPHILL IOWN ON THE PLANS. SILT FENCE MUST NOT BE TRENCHED WITHIN THE CPZ OF ANY TREES TO BE HOWN ON PLANS IS REQUIRED. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE THE DEVELOPMENT, AT THE DISCRETION OF THE CITY INSPECTOR. THE CITY INSPECTOR MAY REQUIRE ADDITIONAL EROSION. CONTRACTOR SHALL PROVIDE OUTLET PROTECTIONS FOR SEDIMENTS THAT MAY BE RESPONSIBLE FOR CLEANING THE SITE AFTER CONSTRUCTION. CONTRACTOR CAN USE ADDITIONAL S FROM LEAVING THE SITE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY OFFSITE IMPACTS. DO NOT ON CONTROL DEVICES HAVE BEEN INSPECTED AND APPROVED BY THE LOCAL PERMITTING AUTHORITY.
- AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED IFACTURER'S RECOMMENDATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 EXPOSED SLOPES THAT ARE EQUAL TO OR GREATER THAN 5%, AN EROSION BLANKET SHALL BE FINAL STABILIZATION. TO LIMIT THE AMOUNT OF EROSION ON SITE CONTRACTOR SHALL CLEAR SITE . CONTRACTOR SHALL USE CARE WHEN CUTTING GRADES FOR THE WALL AND SWALE. CONTRACTOR ERMS AS NEEDED.
- ON THE PROJECT SITE. ANY SEDIMENT ESCAPING THE PROJECT SITE WILL BE REQUIRED TO BE THE TRACKING OF SOIL ON STREETS.
- MPROVEMENTS IN ACCORDANCE WITH THE APPROVED DRAWINGS.
- GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE ) SHALL BE USED TO STABILIZE THE STORMWATER DISCHARGE SWALE. FILTER FABRIC SHALL BE IARGE SWALE OUTFALL. SOD STRIPS IN SWALES AND WATERWAYS SHALL BE LAID PERPENDICULAR TO ALL BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD.

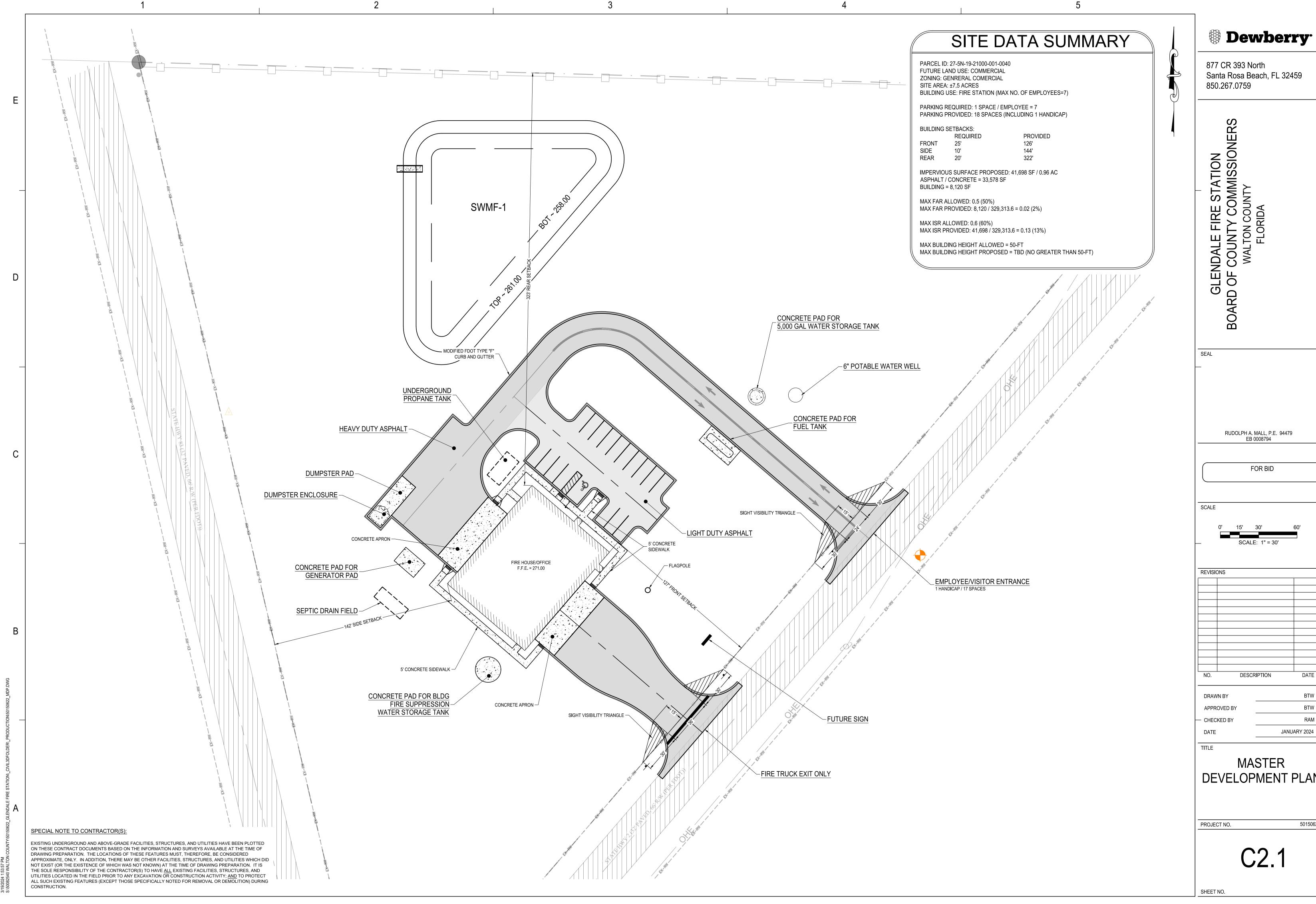
- 10. DAILY SWEEPING WILL BE REQUIRED ON THE PROPERTY AND IMMEDIATELY AFTER STORM EVENTS TO PREVENT TRACKING OF SEDIMENT ONTO STREETS AND RIGHT-OF-WAY.
- 11. REMOVE ALL SEDIMENT/EROSION CONTROL DEVICES. REMOVE AND DISTRIBUTE ANY REMAINING SEDIMENT ONCE FULLY STABILIZED. ASSURE THAT DISTRIBUTED SEDIMENT WILL NOT BE REDISTRIBUTED. ANY EXCESS DIRT SHALL BE DISPOSED OF IN A MANNER OFF SITE THAT WILL NOT CAUSE ANY EROSION OR SEDIMENT ISSUES. CONTRACTOR WILL ALSO INSPECT STRUCTURES FOR SEDIMENT. ANY SEDIMENT SHALL BE FLUSHED FROM THE CONVEYANCE SYSTEM.
- WORK DURING THE HOURS OF 7:30 AM 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND 12. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
  - 13. EACH CONTRACTOR SHALL CARRY ON HIS WORK AND ADHERE TO THE PROGRESS SCHEDULE DURING ALL DISPUTES OR DISAGREEMENTS WITH THE OWNER. NO WORK SHALL BE DELAYED OR POSTPONED PENDING RESOLUTION OF ANY DISPUTES OR DISAGREEMENTS.
  - 14. KEEP EXISTING PAVEMENT AS SHOWN, AND SAW CUT WHERE NEEDED FOR DRAINAGE PIPE CROSSINGS.

- 15. TWO WEEKS PRIOR TO FINAL INSPECTION. THE CONTRACTOR SHALL HAVE A WALK THROUGH WITH THE ENGINEER. AND OWNER AND A PUNCH LIST SHALL BE PREPARED. ONCE ALL PUNCH LIST ITEMS ARE ADDRESSED TO SATISFY THE ENVIRONMENTAL PERMIT, THE CONTRACTOR SHALL ALSO SCHEDULE A WALK THROUGH WITH THE OWNER, ARCHITECT, ENGINEER AND COUNTY UPON COMPLETION.
- 16. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH MINIMUM OF SIX (6) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY TO VERIFY THE INSTALLATION OF ALL INFRASTRUCTURE, STORMWATER CONVEYANCES, AND LANDSCAPE IMPROVEMENTS ACCORDING TO COUNTY ENVIRONMENTAL PERMITS.

LEGEND				
	DENOTES WETLANDS			
	DENOTES EXISTING ASPHALT			
	DENOTES PROPOSED HEAVY DUTY ASPHALT			
	DENOTES PROPOSED LIGHT DUTY ASPHALT			
	DENOTES DIRT ROADWAY/DRIVEWAY			
	DENOTES GRAVEL ROADWAY/DRIVEWAY			
	DENOTES LANDSCAPE BUFFER			
	DENOTES WETLAND BUFFER			
	DENOTES CONCRETE			
	DENOTES MATERIAL TO BE DEMOLISHED AND REMOVED			
	DENOTES PROPERTY LINE			
	DENOTES ADJACENT PROPERTY LINE			
	DENOTES SETBACK LINE			
· ·	DENOTES WETLAND LINE			
	DENOTES WETLAND BUFFER			
	DENOTES EXISTING STORM DRAIN TO BE REMOVED (REFER TO PLANS)			
$\sim$	DENOTES EXISTING LINEAR OBJECT TO BE REMOVED (REFER TO PLANS)			
	DENOTES SILT FENCING			
	DENOTES TURBIDITY BARRIER			
X	DENOTES HAY BALES			
X	DENOTES EXISTING OBJECT TO BE REMOVED (REFER TO PLANS)			
	DENOTES EXISTING OBJECT TO BE RELOCATED (REFER TO PLANS)			
SECTION SHEET NO.	DENOTES SECTION LINE			
SECTION XXX PHEET NO	DENOTES SECTION/VIEW CALL OUT			

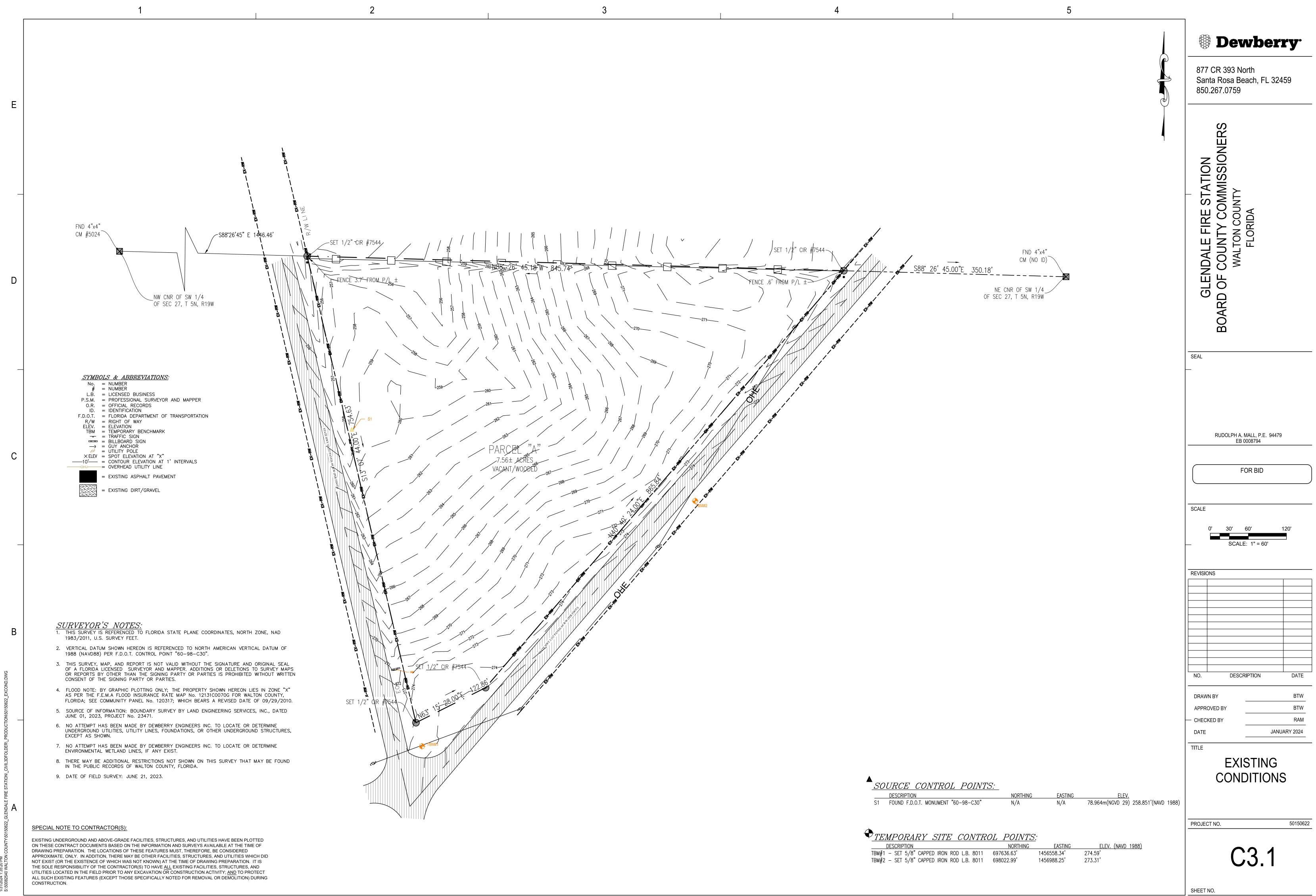
DENOTES ELEVATION VIEW

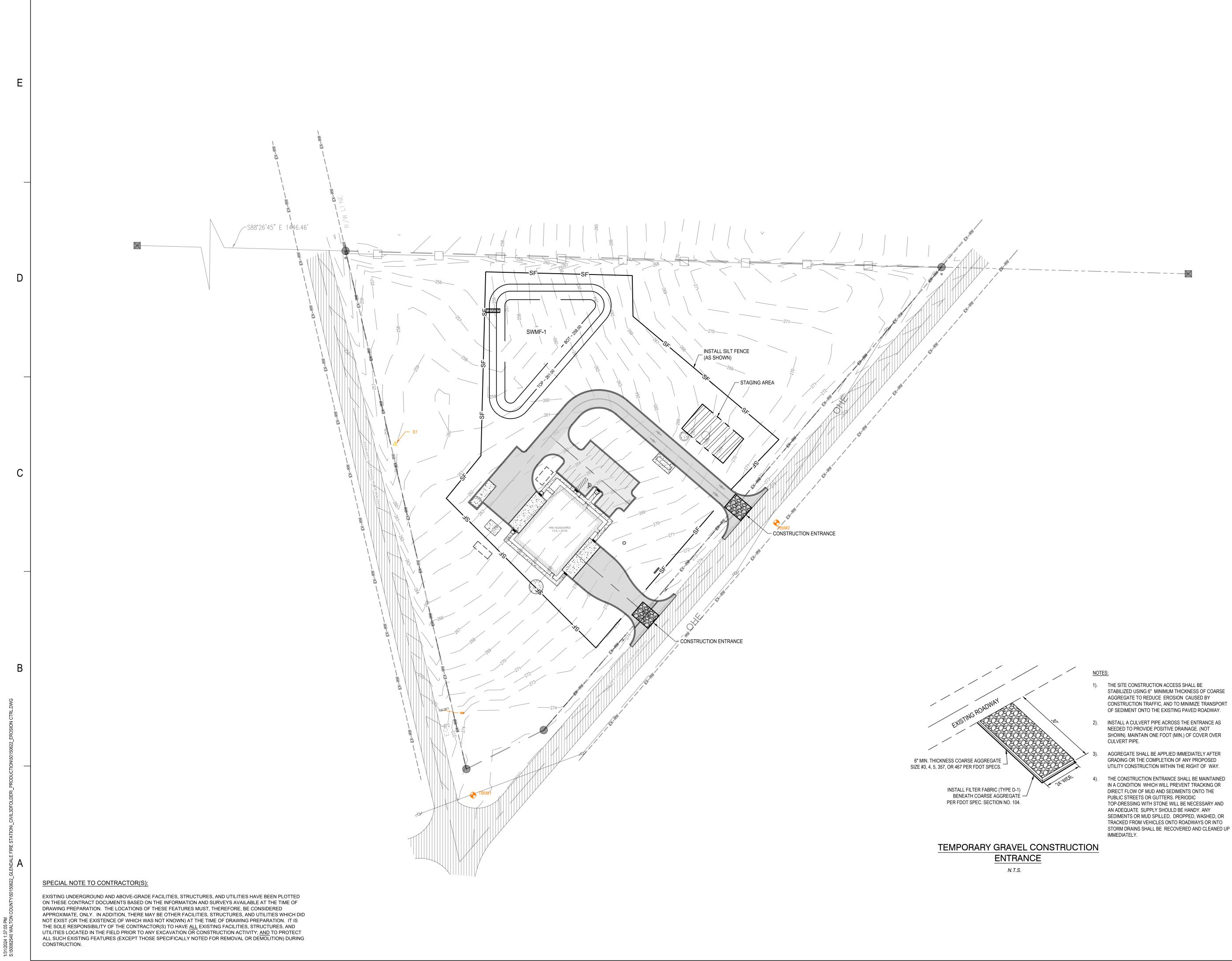
Dewbern	<b></b>
877 CR 393 North Santa Rosa Beach, FL 324 850.267.0759	59
GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA	
SEAL	
RUDOLPH A. MALL, P.E. 94479	
EB 0008794	
FOR BID	
SCALE	
_	
REVISIONS	
NO. DESCRIPTION	DATE
DRAWN BY	BTW
APPROVED BY	BTW RAM
	ARY 2024
GENERAL NOT AND LEGENE	
PROJECT NO.	50150622
C1 1	



Santa Rosa Beach, FL 32459 GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA RUDOLPH A. MALL, P.E. 94479 EB 0008794 FOR BID SCALE: DATE DESCRIPTION BTW BTW RAM JANUARY 2024 MASTER DEVELOPMENT PLAN

50150622







PROJECT NO.

C3.2

50150622

# **EROSION CONTROL**

TITLE	

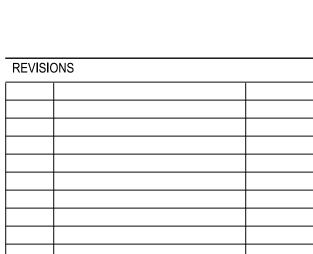
NO.

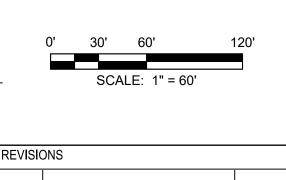
DRAWN BY	BTW
APPROVED BY	BTW
- CHECKED BY	RAM
DATE	JANUARY 2024

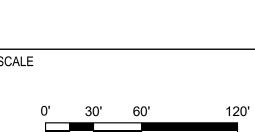
DATE

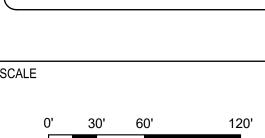
REVISIONS		

DESCRIPTION









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

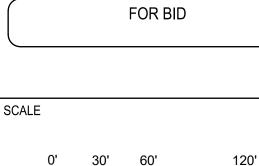
**Dewberry** 

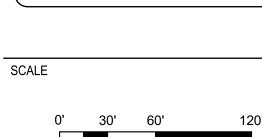
Santa Rosa Beach, FL 32459

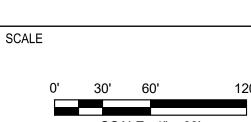
877 CR 393 North

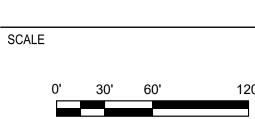
GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA

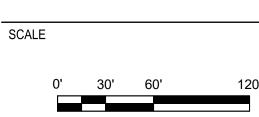
850.267.0759

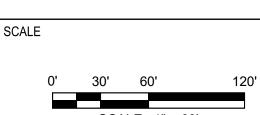


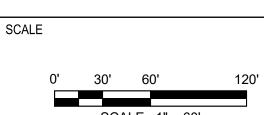


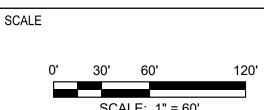


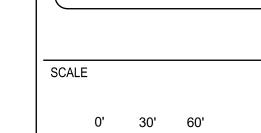


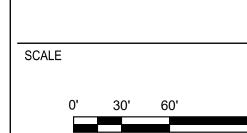


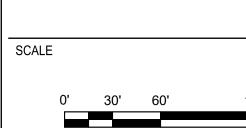


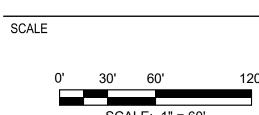


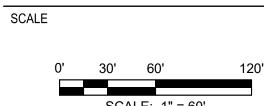


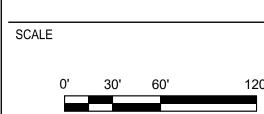


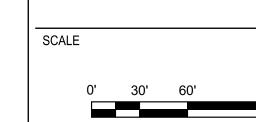


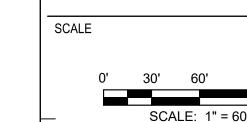


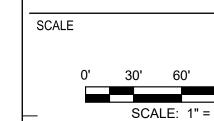


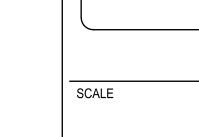




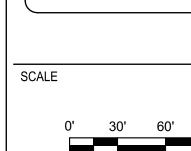


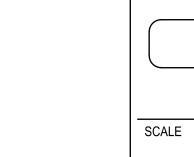


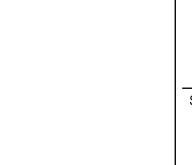


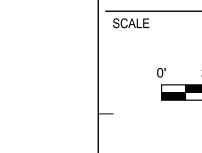


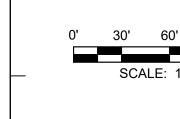
SEAL



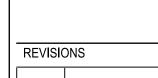


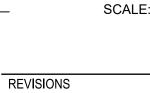


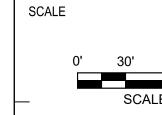


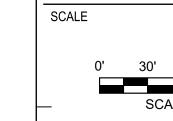


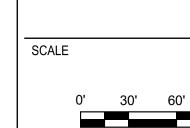


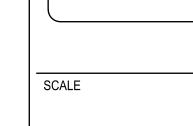


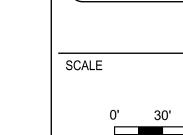








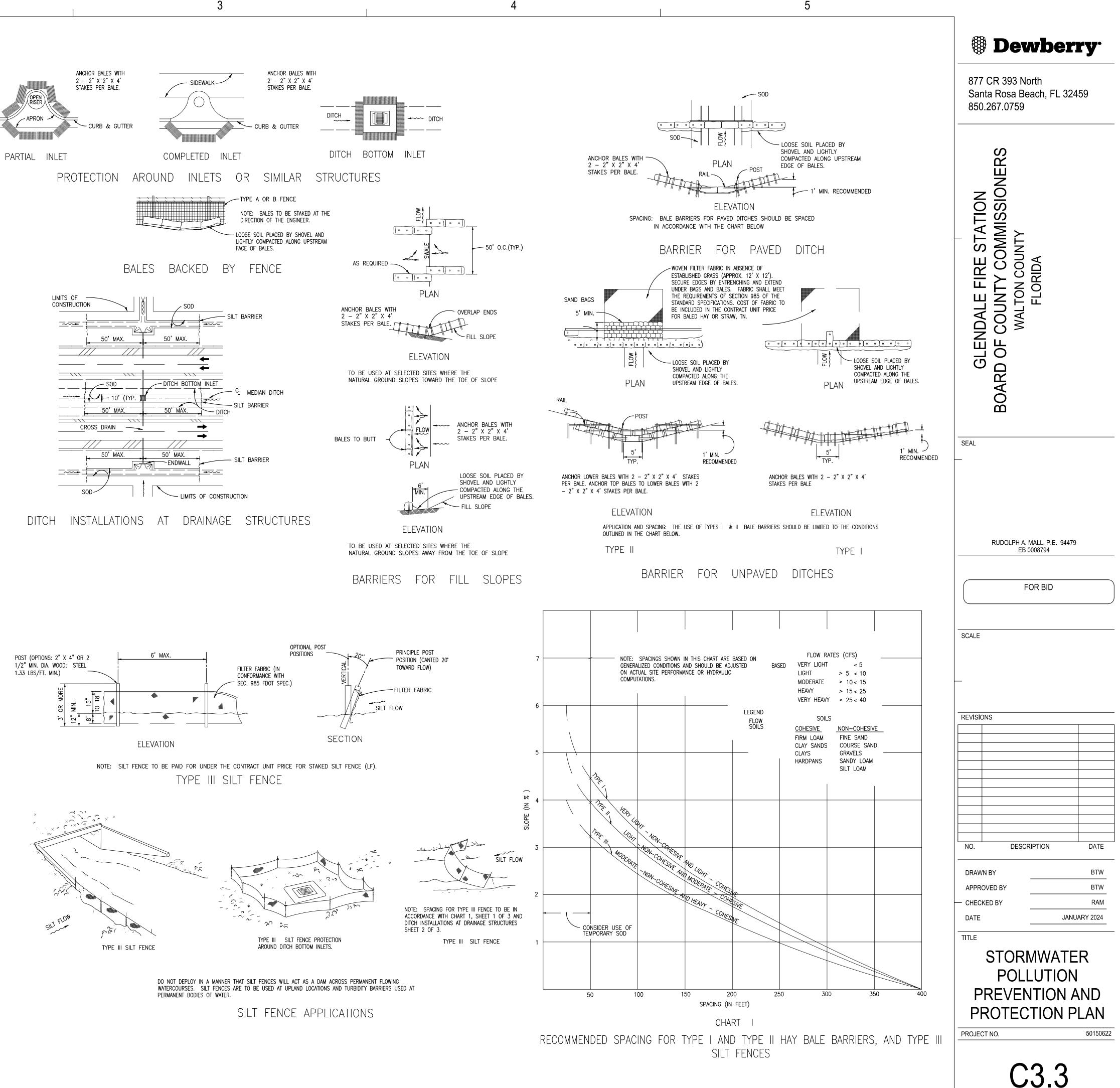


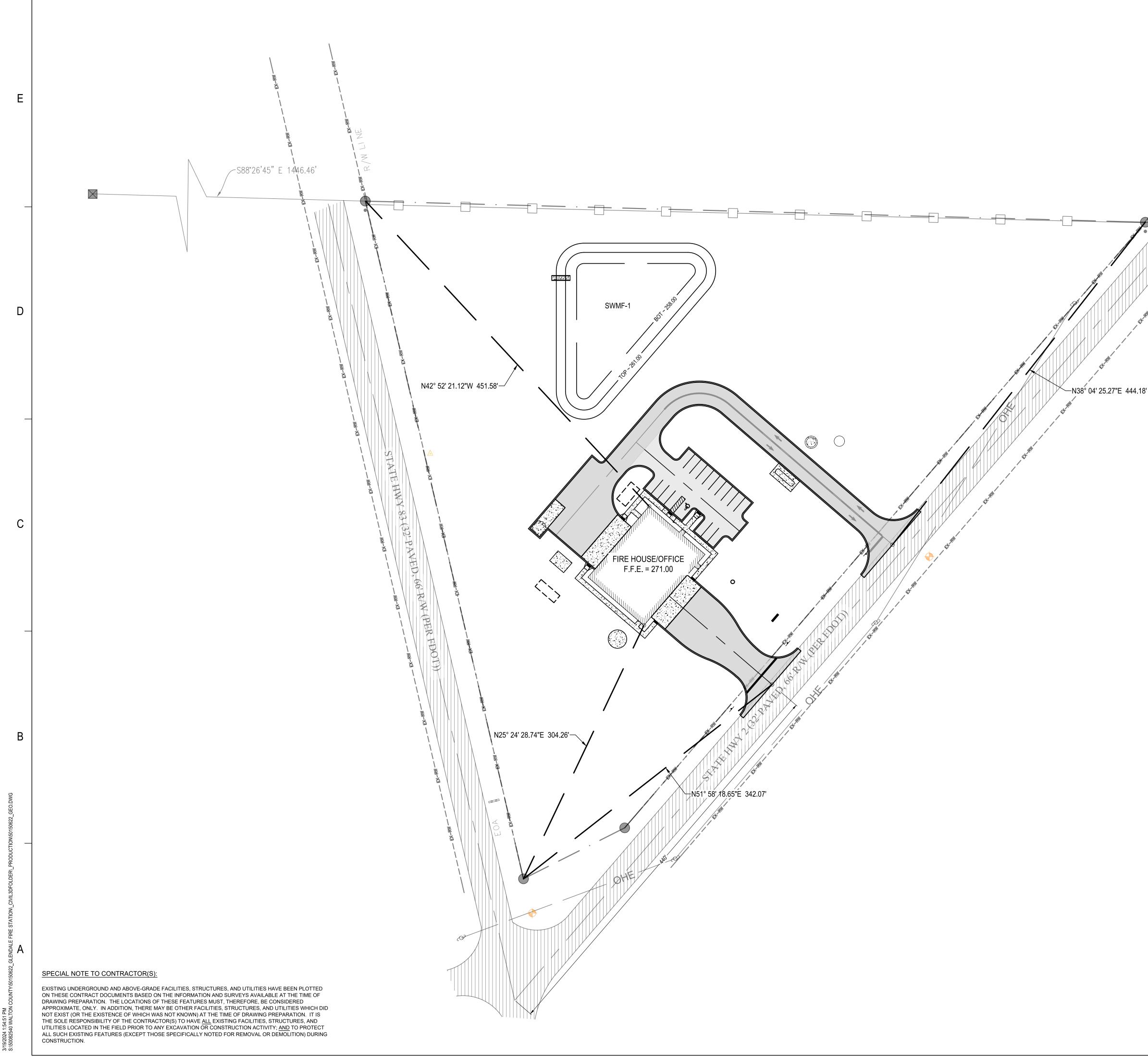




5

		FER POLLUTION PREVENTION PLAN:         SITE DESCRIPTION: VACANT/WODDED					
		CONSTRUCTION ACTIVITY: CONSTRUCTION OF FIRE STATION, DRIV MAJOR SOIL DISTURBING ACTIVITIES: SITE CLEARING AND GRADIN					
	C.	TOTAL PROJECT AREA: 4.95 ACRES					
Е	D.	TOTAL SOIL AREA TO BE DISTURBED: 3.10 ACRES RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUC DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: N/A	TION:				
	C.	FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A		l			
	E.	NAME OF RECEIVING WATERS: N/A WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPAT	ED				
	2.						
_			LOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN ENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES				
	2A.	EROSION AND SEDIMENT CONTROLS: (1) STABILIZATION PRACTICES:					
		TÉMPORARY SODDING TEMPORARY GRASSING					
		X PERMANENT PLANTING, SODDING, OR SEEDING TEMPORARY MULCHING ARTIFICIAL COVERING					
		X BUFFER ZONES X PRESERVATION OF NATURAL RESOURCES					
D	2B.	STRUCTURAL PRACTICES:					
		SAND BAGGING X SILT FENCES					
		X HAY BALES X BERMS DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES	SEDIMENT TRAPS				
		PIPE SLOPE DRAINS FLUMES	SEDIMENT BASINS STORM INLET SEDIMENT TRAP (ROCK BAGS) STONE OUTLET STRUCTURES				
		ROCK BEDDING AT CONSTRUCTION EXIT TIMBER BEDDING AT CONSTRUCTION EXIT	CURBS AND GUTTERS STORM SEWERS				
			VELOCITY CONTROL DEVICES TURBIDITY BARRIER				
	2C. 2D.	DESCRIPTION OF STORMWATER MANAGEMENT: OTHER CONTROLS:	X RIP RAP				
		<ul><li>(1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL</li><li>(2) OFFSITE VEHICLE TRACKING:</li></ul>	BE BURIED ON SITE				
		HAUL ROADS DAMPENED FOR DUST CONTROL X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN					
		X EXCESS DIRT ON ROAD REMOVED DAILY X STABILIZED CONSTRUCTION ENTRANCE (3) SANITARY WASTE: N/A					
		<ul> <li>(4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDE RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR</li> </ul>					
С		(5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING					
	2E. 3.	APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: WA MAINTENANCE:	LTON COUNTY DEVELOPMENT ORDER No. MIN23-000048				
	J. J.	ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A	REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, NG EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER				
_	4.		OR AS WELL AS AFTER 0.25' OR MORE OF RAIN. AN INSPECTION AND SED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE				
	А.	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.					
	В.		ID STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, E CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.				
-	C.	RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT I AVAILABLE FOR INSPECTION.	MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY				
<b>B</b>	5.	AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION WILL FORWARD A COPY OF THE PERMIT AND W	IDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE STRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. /ILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY AT 850-233-5100 PRIOR E STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR DULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.				
DUCTION:50150622_COVER.DWG							
0150622_							
ER\_PROD							
L3DFOLDI							
IRE STAT							
S:\50082540 WALTON COUNTY\50150622_GLENDALE FIRE STATION_CIVIL3DFOLDER_PRO ${\sf V}$							
50622_GL							
UNTY\501							
LTON CO							
82540 WA							
S:\500							





SHEET NO.

PROJECT NO.

C4.

50150622

# SITE LAYOUT PLAN

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

REVISIO	DNS	
NO.	DESCRIPTION	DATE

SCALE SCALE: 1" =

FOR BID

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

SEAL

GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA

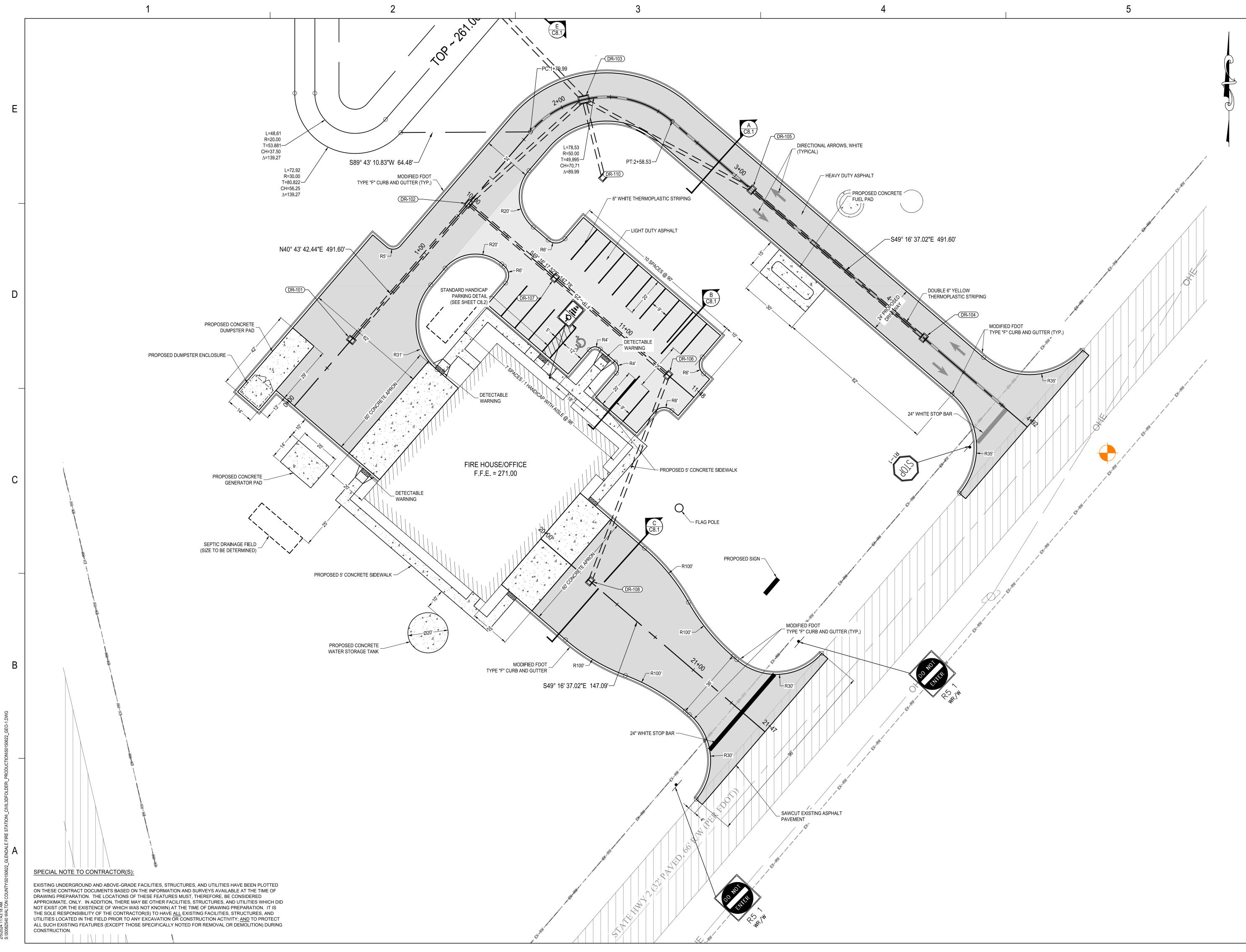
**Dewberry** 

Santa Rosa Beach, FL 32459

877 CR 393 North

850.267.0759

\_\_\_\_\_



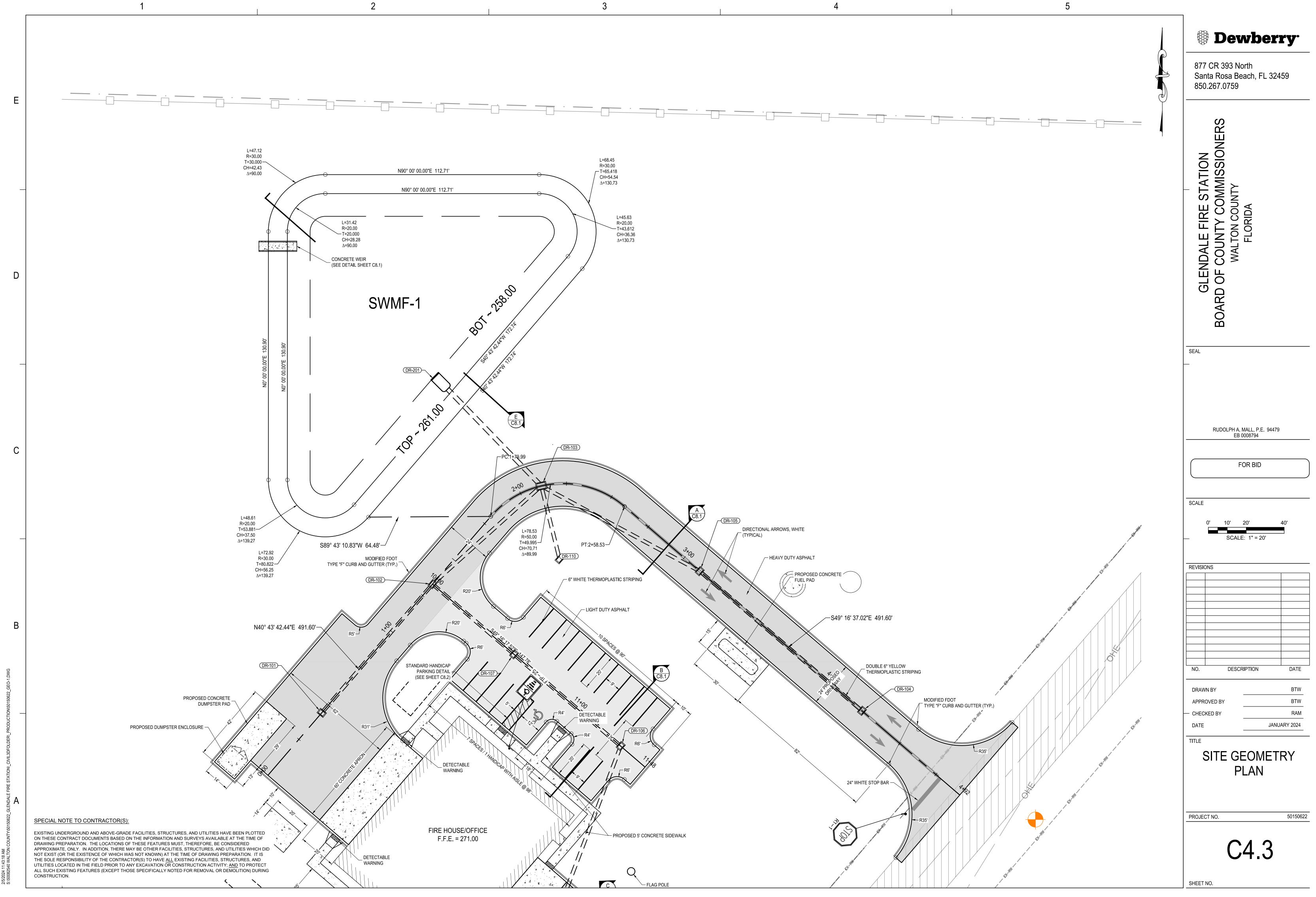
877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759 SOUNTY COUNTY MALTON COUNTY FLORIDA FLORIDA
NDALE FI COUNTY WALTON FLOF
SEAL
RUDOLPH A. MALL, P.E. 94479 EB 0008794
FOR BID
SCALE
0' 10' 20' 40' SCALE: 1" = 20'
REVISIONS
NO. DESCRIPTION DATE
APPROVED BY BTW
CHECKED BY RAM     DATE JANUARY 2024
SITE GEOMETRY PLAN

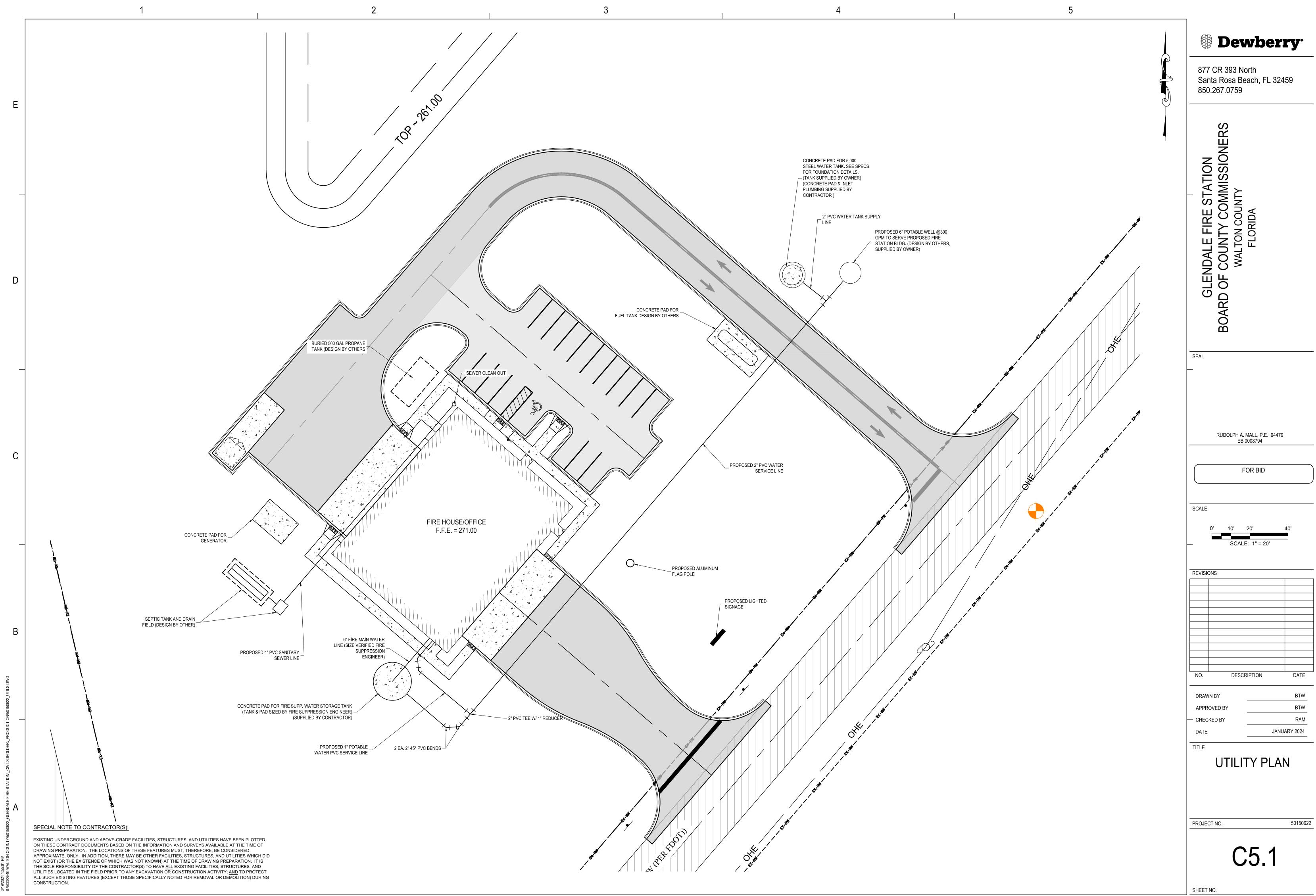
PROJECT NO.

SHEET NO.

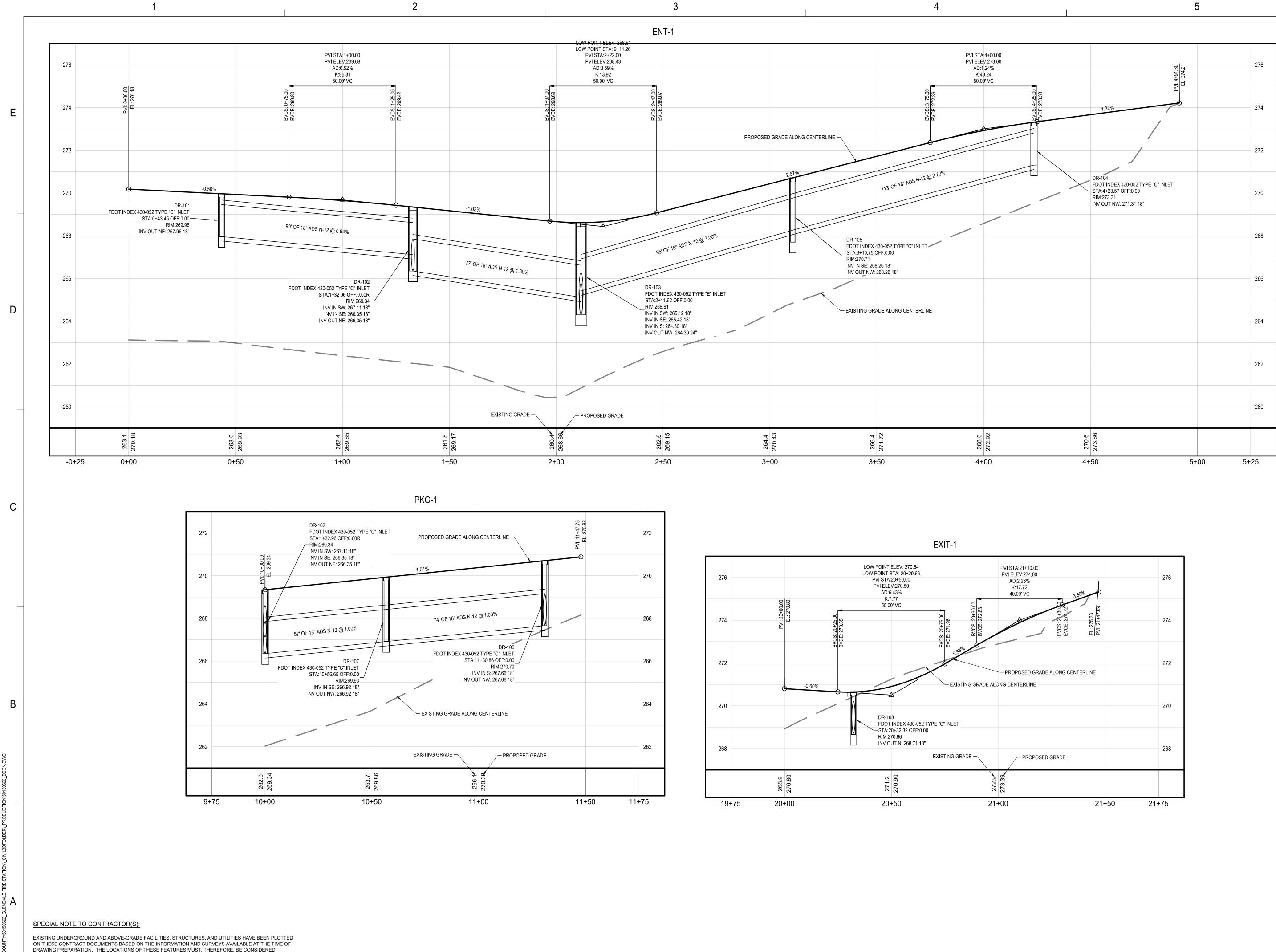
50150622

C4.2





NO.	DESCR	IPTION	DATE
DRAW	N BY		BTW
APPR	OVED BY		BTW



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 <u>ALL</u> 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.

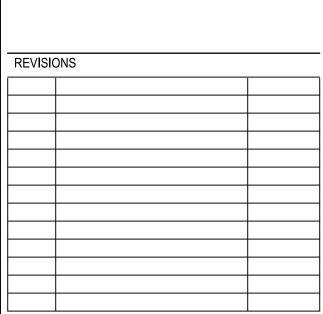
SHEET NO.

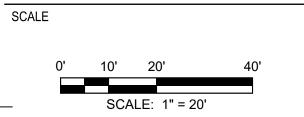
PROJECT NO.

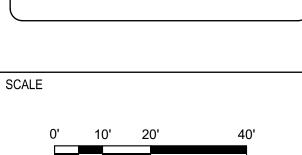
50150622

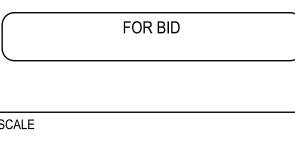
# ROADWAY PROFILES

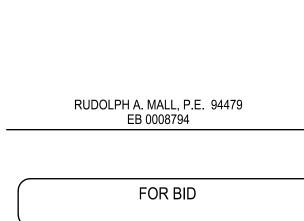
NO. DESCR		IPTION		DATE	
DRAW	'N BY				BTW
APPROVED BY				BTW	
CHECKED BY				RAM	
DATE			JANU	ARY 2024	
TLE					











**Dewberry** 

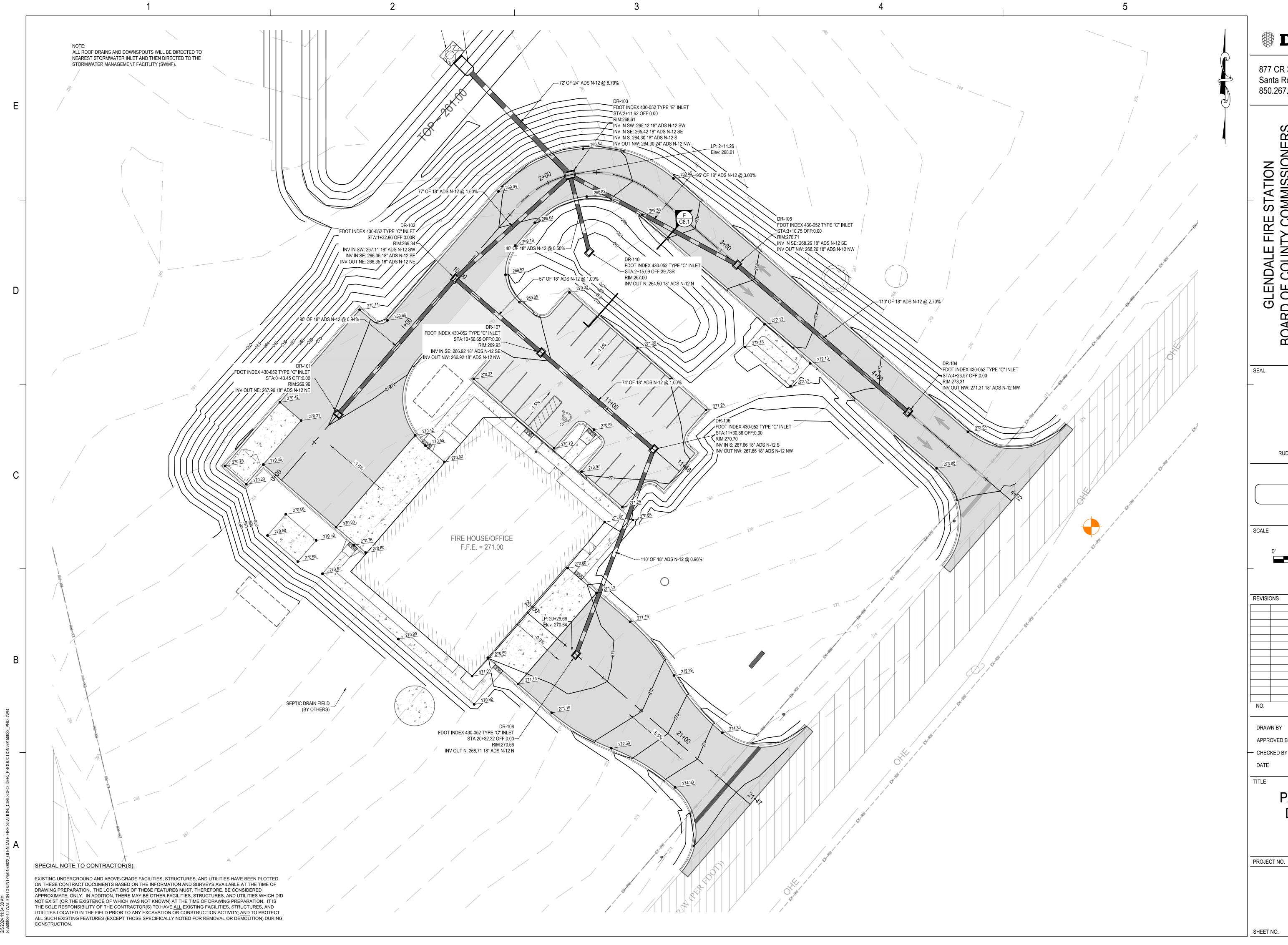
Santa Rosa Beach, FL 32459

877 CR 393 North

GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA

SEAL

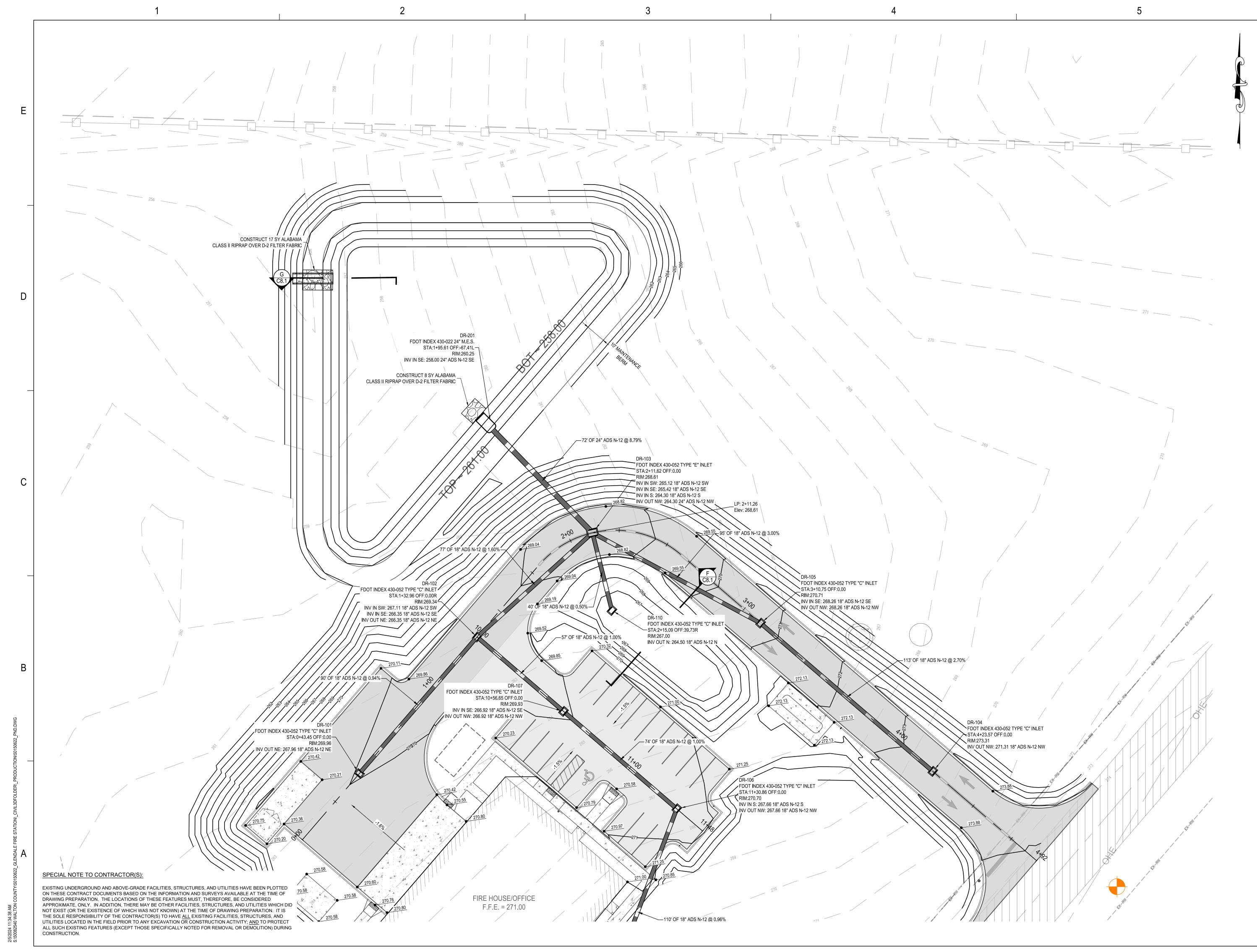
850.267.0759

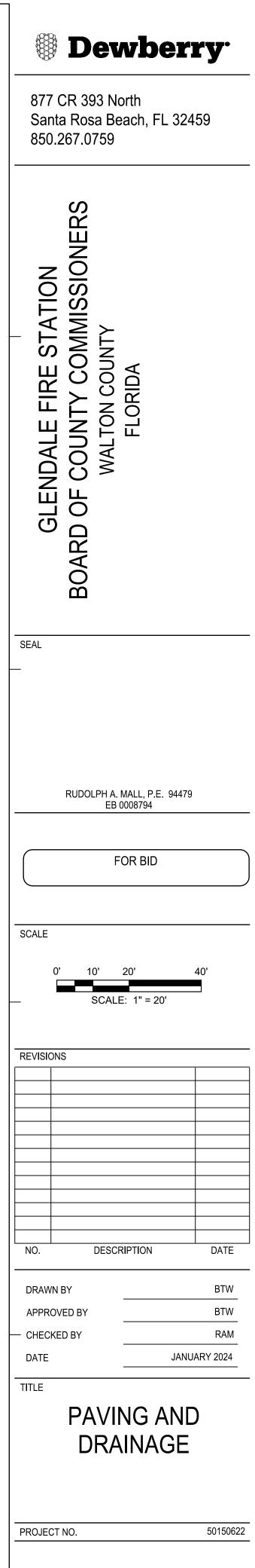


B77 CR 393 North Santa Rosa Beach, FL 324 850.267.0759	-
GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA	
SEAL	
RUDOLPH A. MALL, P.E. 94479 EB 0008794	)
SCALE	
0' 10' 20' 	40'
REVISIONS	
NO. DESCRIPTION	DATE
DRAWN BY APPROVED BY CHECKED BY DATE JANU	BTW BTW RAM JARY 2024
PAVING ANI DRAINAGE	ر

C7.1

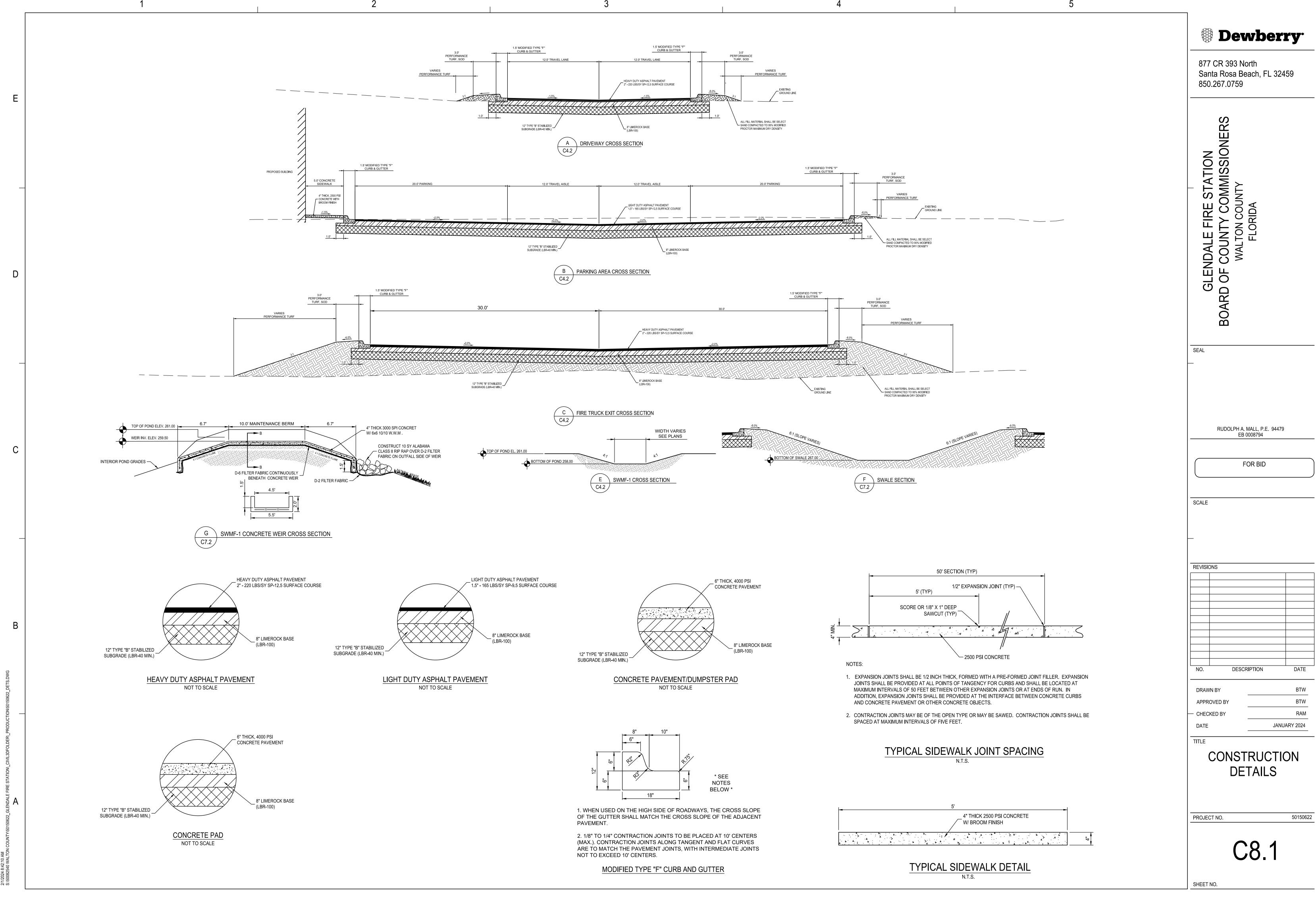
50150622

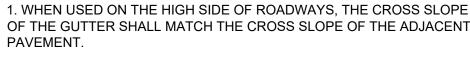




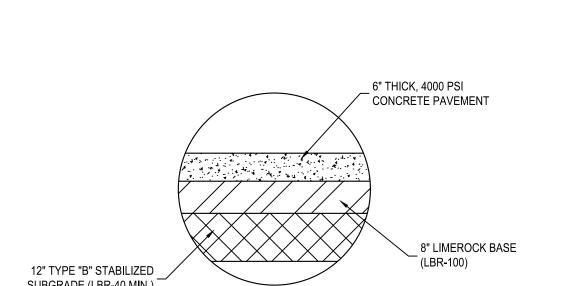
SHEET NO.

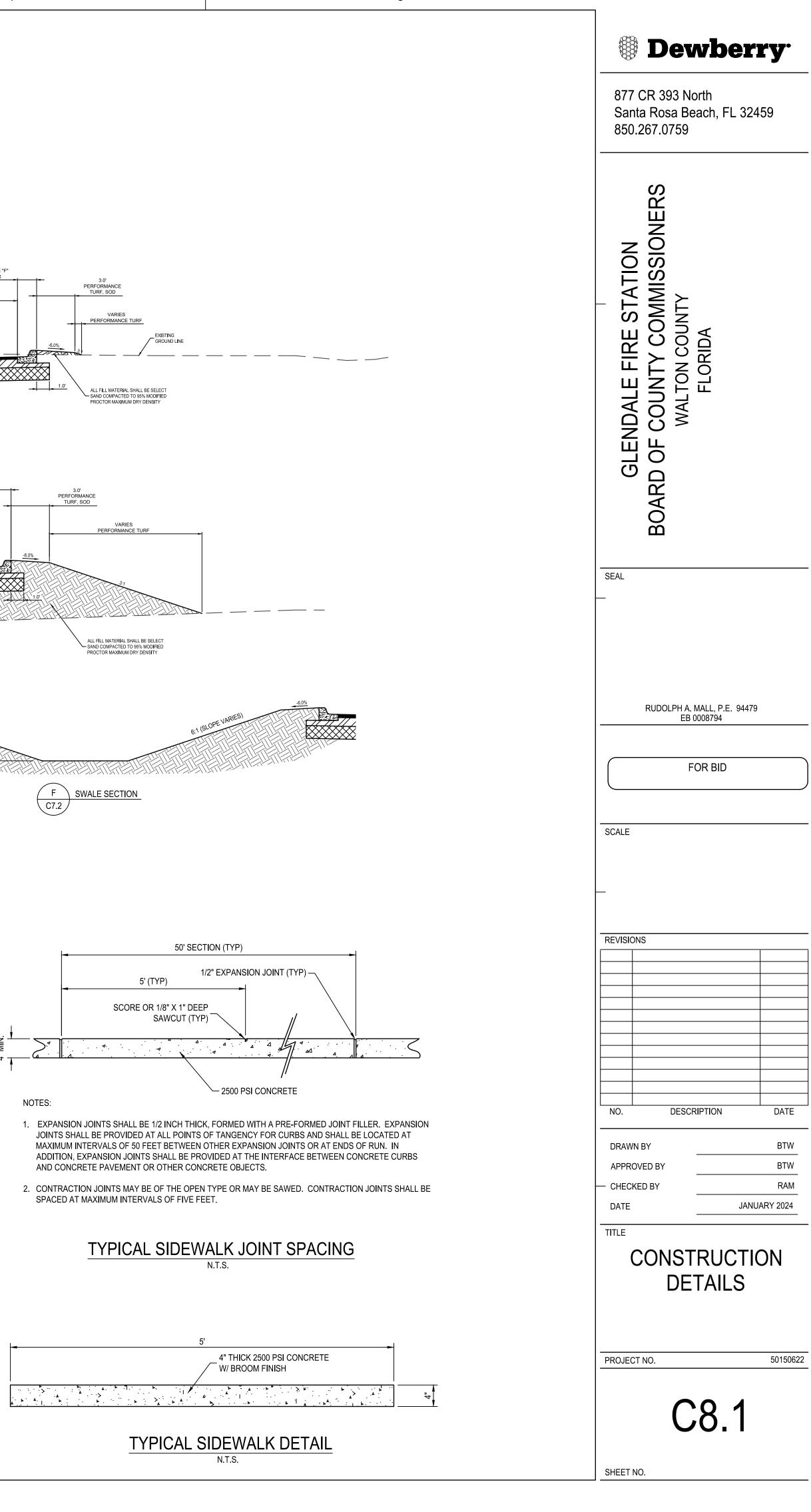
C7.2

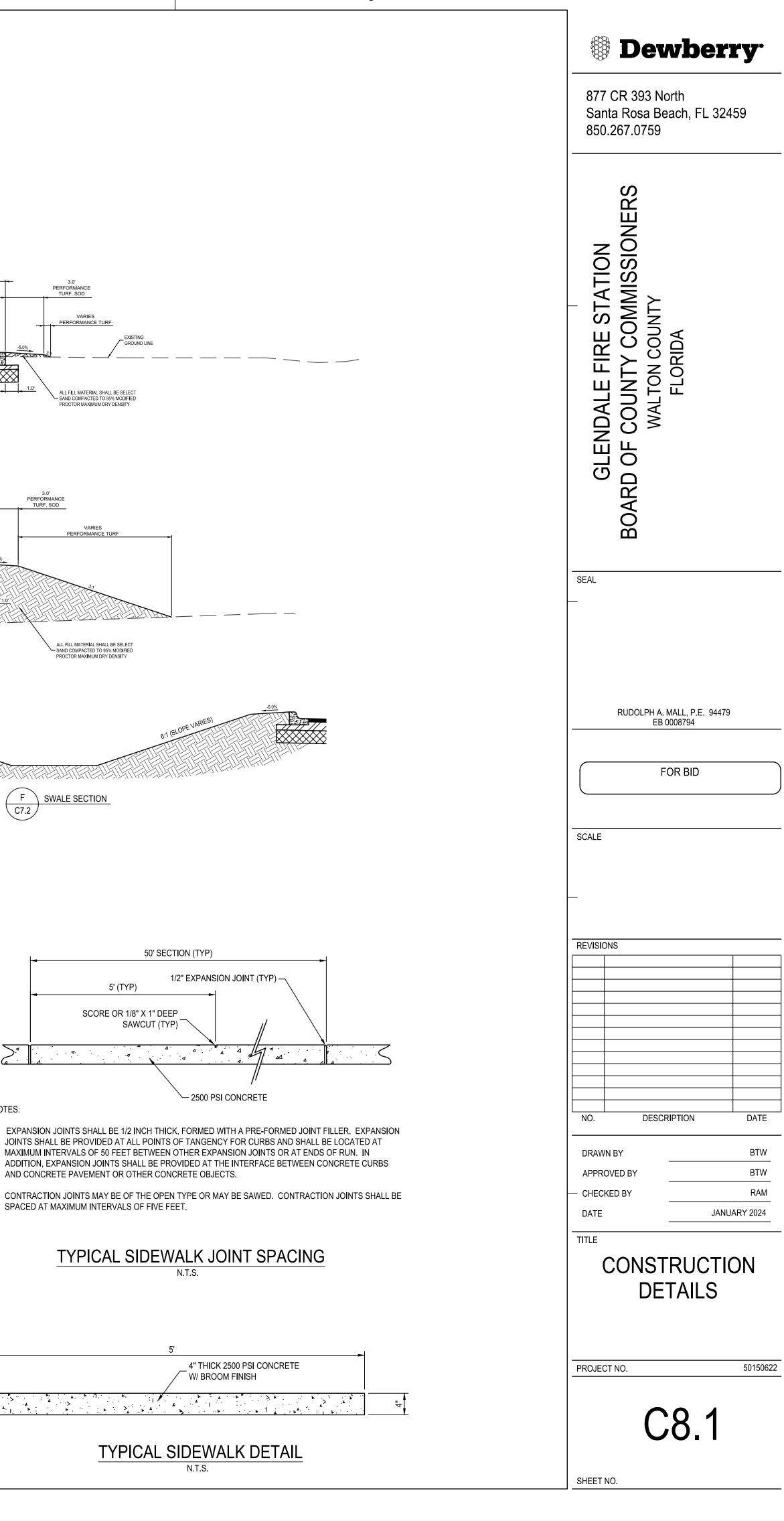


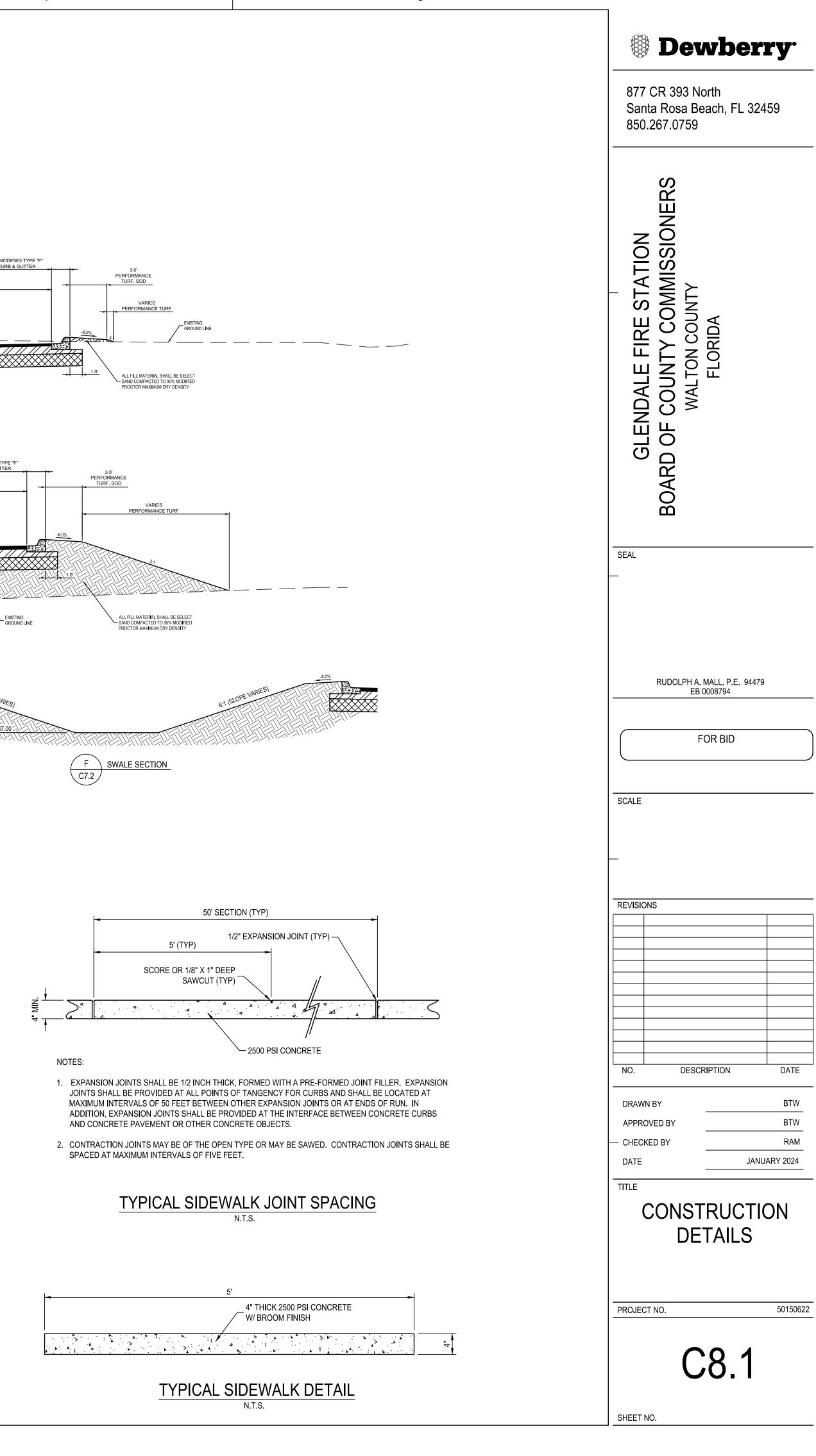


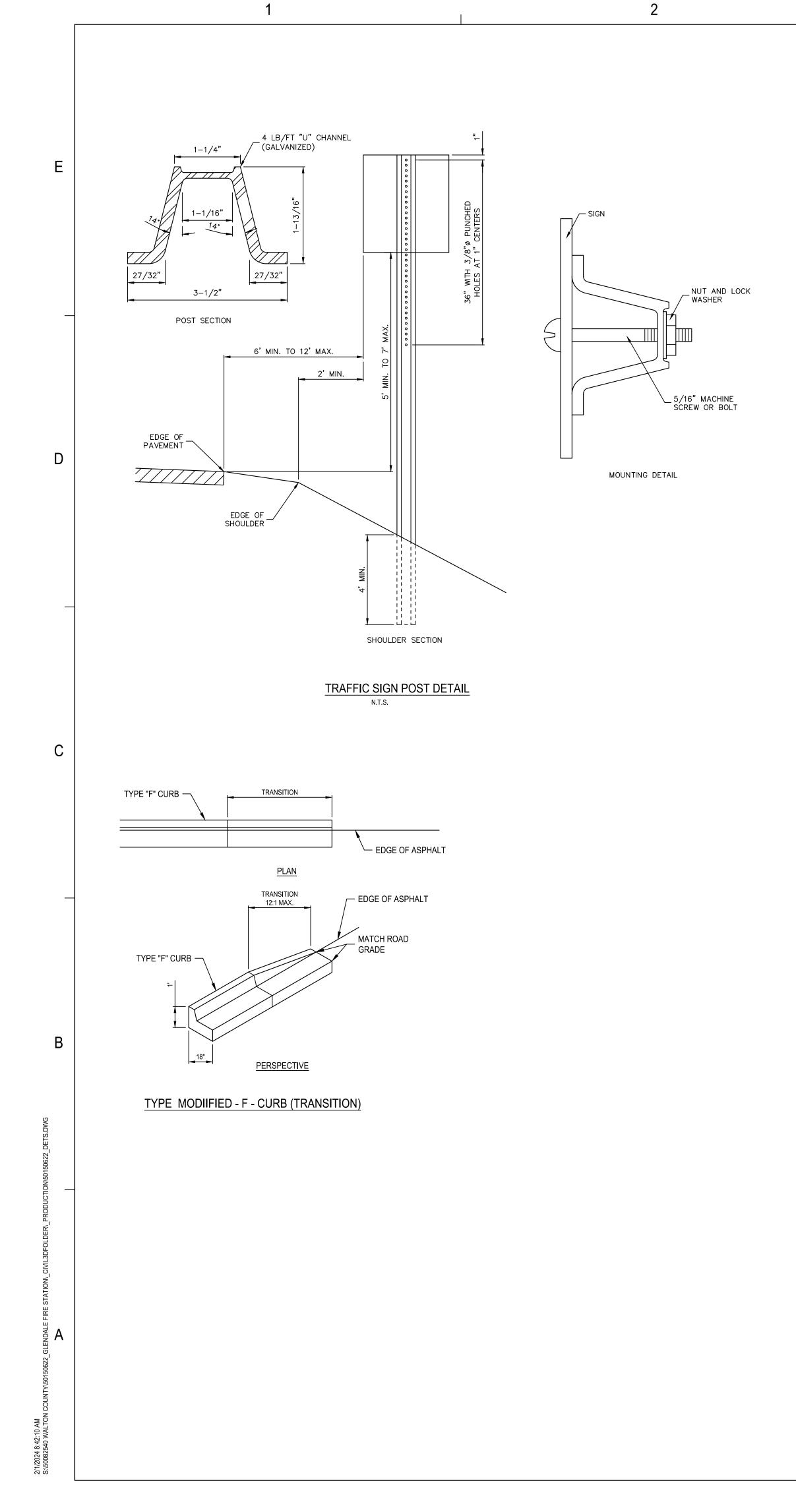


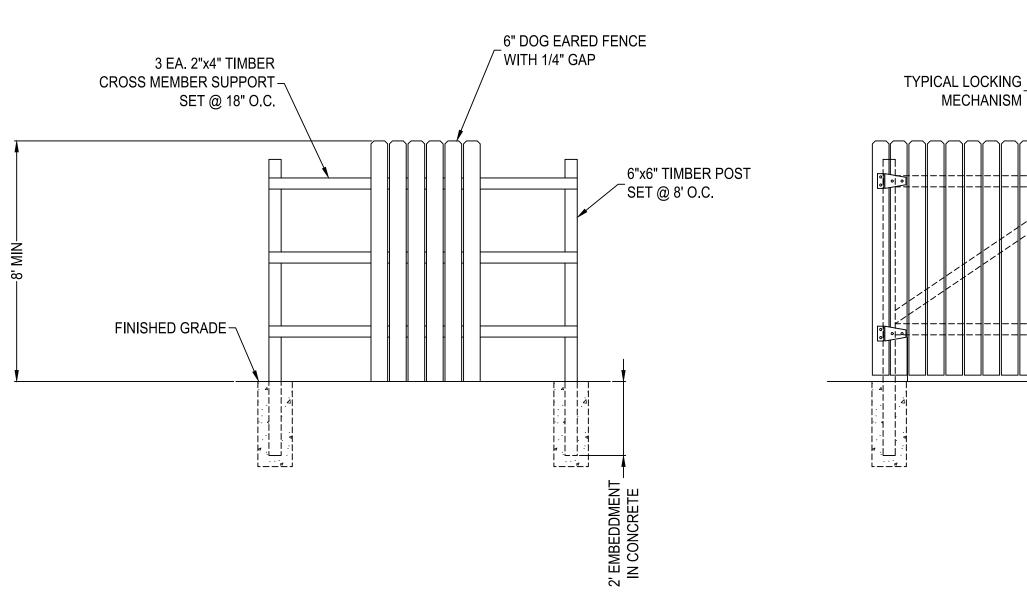




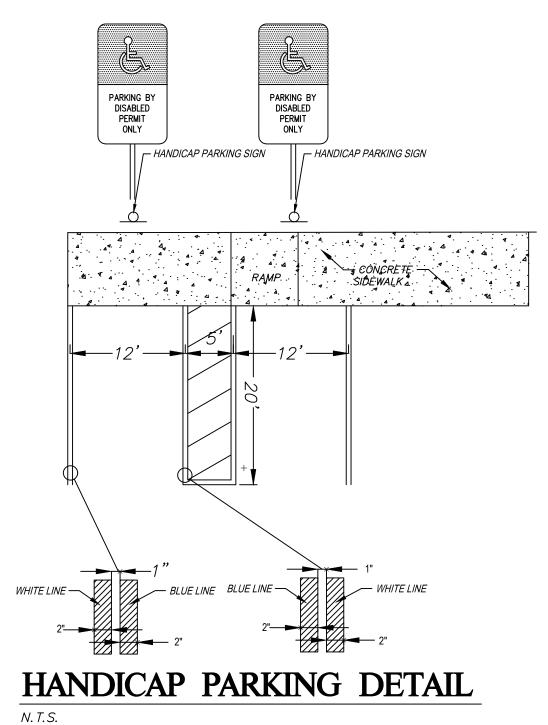








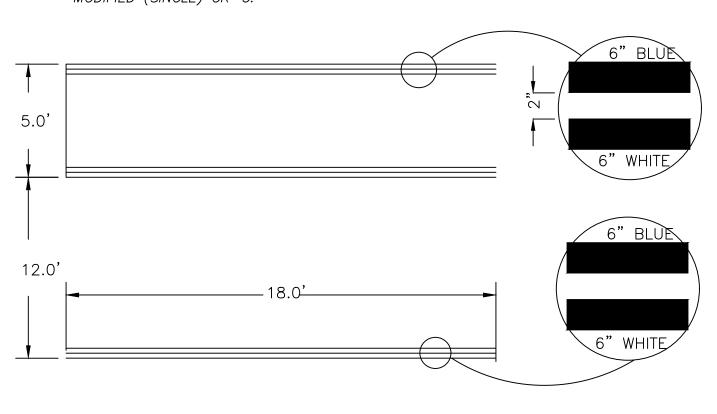
TYPICAL TRASH ENCLOSURE FENCE DETAIL



GENERAL NOTES:

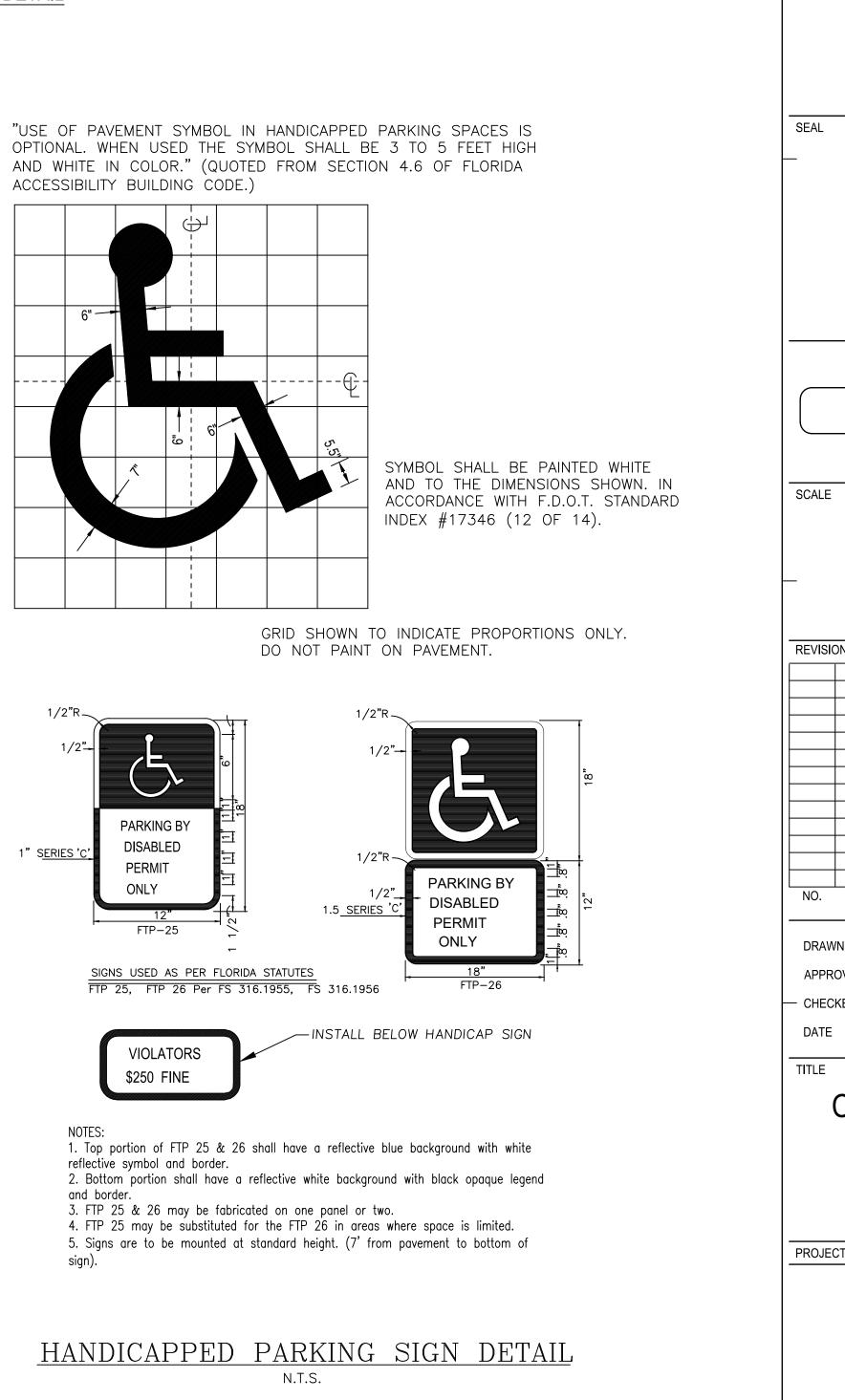
1.) THE ACCESSIBILITY REQUIREMENTS MANUAL BY THE FLORIDA BOARD OF BUILDING CODES AND STANDARDS WAS REFERENCED FOR THIS HANDICAP ACCESS DESIGN. 2.) THE MAXIMUM SLOPE FOR A CURB RAMP IS 1:12 OR 8%.

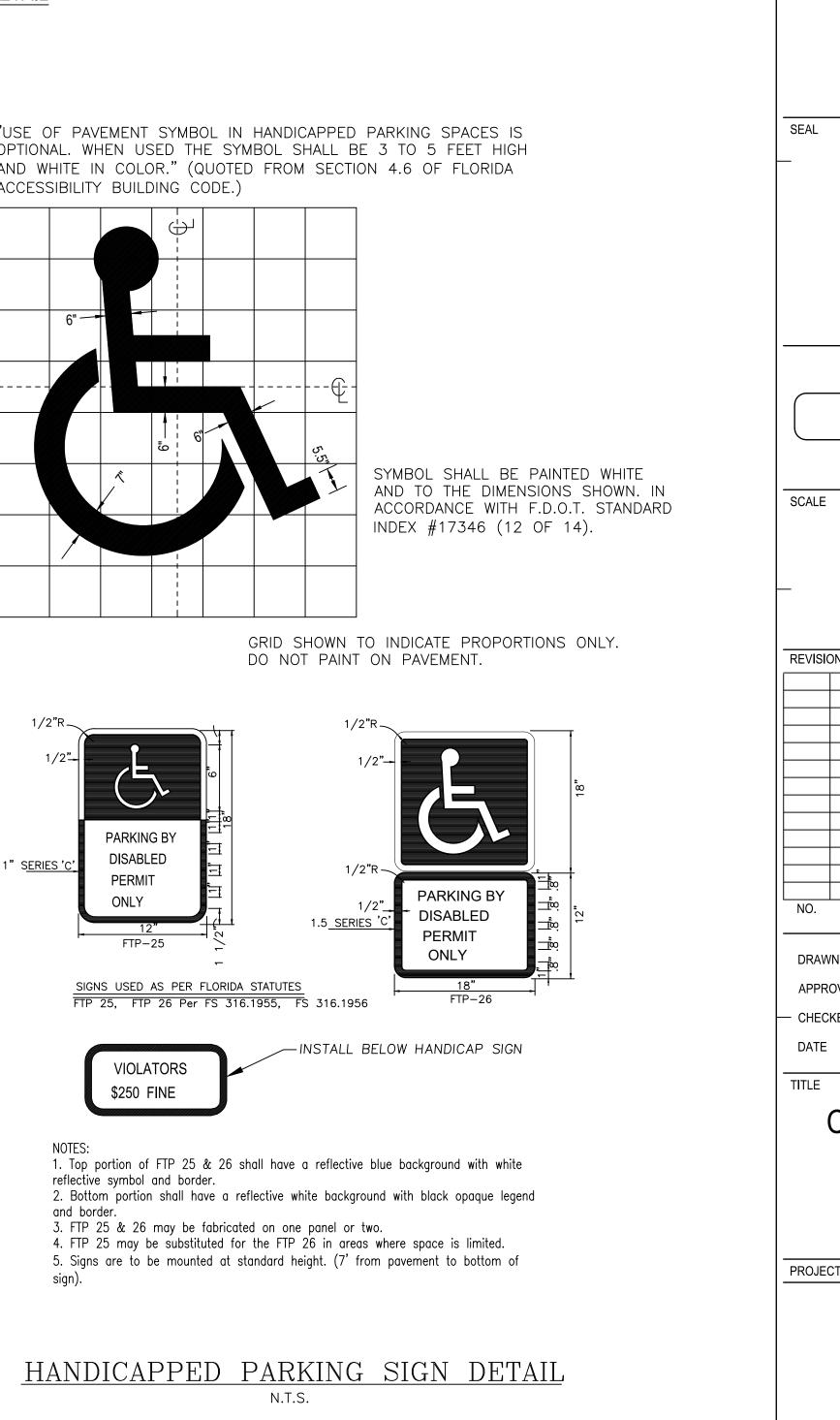
3.) CURB RAMP TO BE CONSTRUCTED PER FDOT INDEX 304 MODIFIED (SINGLE) CR-C.



HANDICAPPED PAVEMENT MARKING

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





/-DUAL 6' GATES TYPICAL PRIVACY FENCE ← HINGES AND NECESSARY HARDWARE ╜╴╢╴╢╴╢╴╴╢╴ 

877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759 GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA RUDOLPH A. MALL, P.E. 94479 EB 0008794 FOR BID REVISIONS DATE DESCRIPTION BTW DRAWN BY BTW APPROVED BY RAM CHECKED BY JANUARY 2024 CONSTRUCTION DETAILS 50150622 PROJECT NO.

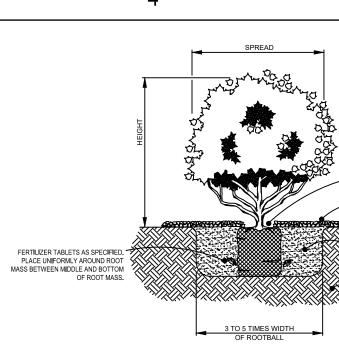
**C8.2** 

SHEET NO.

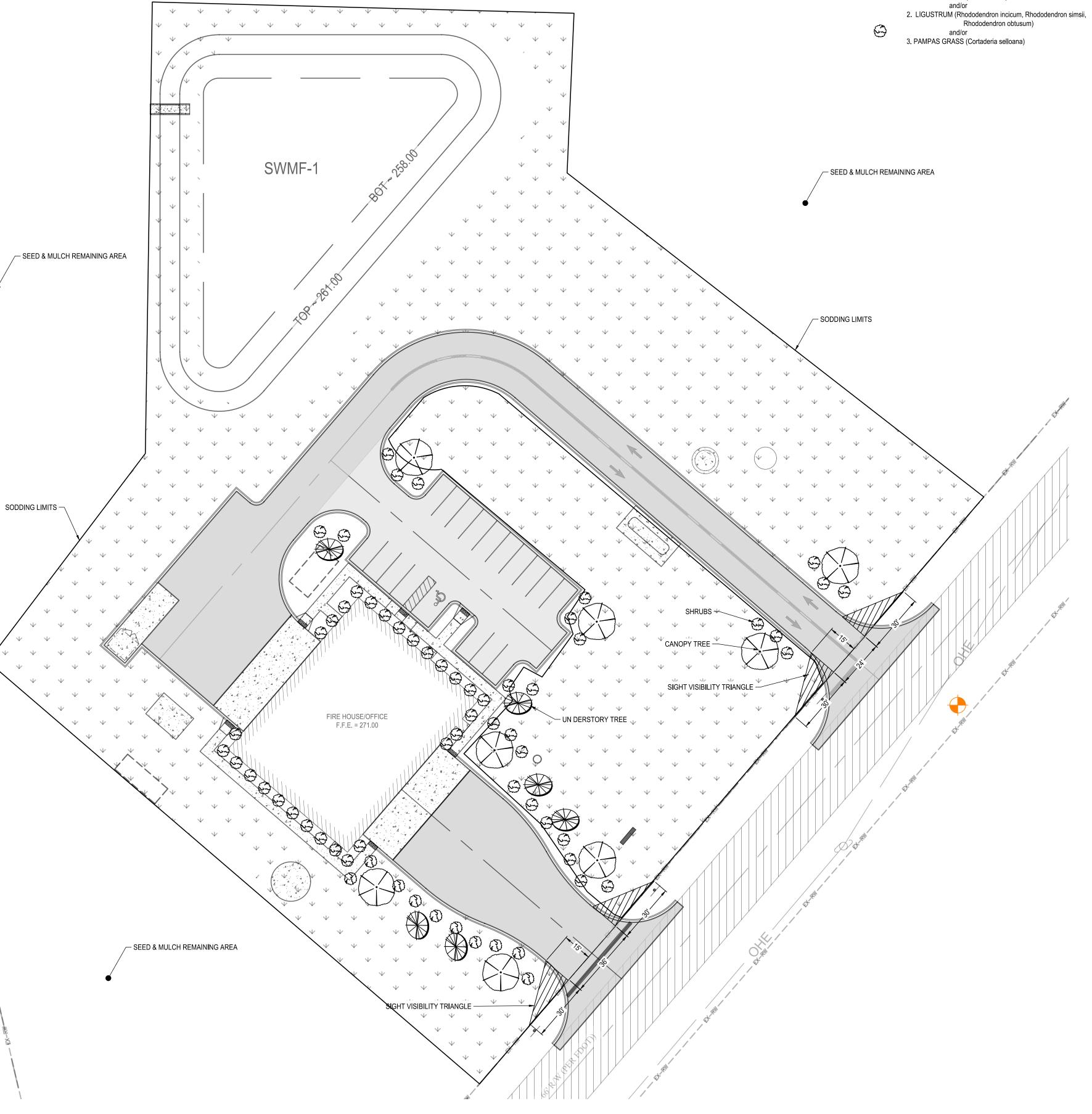
**Dewberry** 

		VEHICULAR USE AREA LANDSCAPE REQUIREMENTS:
	<ol> <li>LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, TV CABLE, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION.</li> <li>INSTALL ONLY PLANTS GRADED FLORIDA FANCY OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF</li> </ol>	VEHICULAR USE AREA = 30,913 SF REQUIRED LANDSCAPE AREA FOR SURFACE PARKING (10% VEHICLE
	AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANTS", PARTS 1 AND 2, INCLUDING REVISIONS WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE. 3) PLANT SHRUBS IN CIRCULAR PITS WITH A DIAMETER 36" GREATER THAN ROOTBALL OR CONTAINER.	USE AREA) = 30,913 x 0.1 = 3,091 SF PROVIDED LANDSCAPE AREA FOR SURFACE PARKING = 7,300 SF
E	<ul> <li>4) FERTILIZE ALL TREES WITH AGRIFORM 21 GRAM TABLETS, SLOW -RELEASE 20-10-50 ANALYSIS WITH ONE TABLET PER ½" OF TRUNK DIAMETER.</li> </ul>	PLANTING REQUIRED = N/A PLANTING PROVIDED = CANOPY (8), UNDERSTORY (6), SHRUB (36)
E	5) 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.	LANDSCAPE BUFFER REQUIREMENTS:
	6) BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE: ½ ONSITE SOIL, ½ CLEAN FRIABLE SANDY-LOAM TOPSOIL.	STREET FRONTAGES: NO BUFFER REQUIRED (NORTH WALTON COUNTY)
	7) FERTILIZE ALL PLANTING BEDS WITH OSMOCOTE 18-6-12 SLOW RELEASE FERTILIZER AT THE RATE OF 16 POUNDS PER 1,000 SQUARE FEET.	NORTH : NO BUFFER REQUIRED (LDC SECTION 5.01.08(D)(10) TABLE 5-3)
	8) TREAT PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.	FOUNDATION PLANTING REQUIREMENTS:
	9) 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).	SHRUBS REQUIRED = 37 (1 SHRUB / 5 FT X 185' = 37 SHRUBS)
_	10) 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.	SHRUBS PROVIDED = 37
	11) VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN.	
	12) ALL LANDSCAPING AREAS TO BE WATERED BY CENTRAL IRRIGATING SYSTEM.	
	<ul><li>13) ALL PLANT MATERIALS SHALL ARRIVE AT THE SITE WITH SOIL MOIST.</li><li>14) UNDER NO CIRCUMSTANCES WILL LANDSCAPE WORK BE APPROVED FOR PAYMENT IF PLANT SIZE AND</li></ul>	
	GENERAL HEALTH ARE NOT AS REQUIRED ON PLAN. 15) ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON PLANT LIST.	
D	16) ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED, AND MEET ALL REQUIREMENTS AS SPECIFIED.	
	17) BEFORE ANY PLANTING, LANDSCAPE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNFORESEEN CONDITIONS THAT MAY CONFLICT WITH LANDSCAPE INSTALLATION.	
	18) 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.	
	19) 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.	
	20) ALL PLANTS, MATERIALS AND WORK PERFORMED ARE SUBJECT TO APPROVALS OF THE ENGINEER AND THE OWNER BEFORE, DURING AND AFTER INSTALLATION.	•
_	21) THE LANDSCAPE DESIGNER MUST APPROVE ANY ALTERATIONS OR REVISIONS TO THE LANDSCAPE PLAN.	
	<ul> <li>22) THE CONTRACTOR SHALL PROTECT EXISTING FEATURES ON SITE.</li> <li>23) THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THESE PLANS, BEFORE PRICING THE WORK.</li> </ul>	
	24) 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	
	<ul> <li>13-6-6 SLOW-RELEASE FERTILIZER WITH ACTIVATED SLUDGE AT A RATE OF 15 POUNDS PER 1,000 S.F.</li> <li>25) 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).</li> </ul>	
С	<ul> <li>26) 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.</li> </ul>	
	27) NO SUBSTITUTIONS OR CHANGES SHALL BE MADE TO THE DESIGN WITHOUT APPROVAL BY THE ENGINEER, OWNER AND THE COUNTY.	SOI
	28) STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.	
	29) 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.	
_	30) 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.	
	<ul><li>31) IRRIGATION SYSTEM IS TO BE DESIGNED TO ALLOW FOR EXPANSION TO FUTURE DEVELOPMENT AREAS.</li><li>32) IRRIGATION CONTRACTOR SHALL SUBMIT A SLEEVING PLAN TO ARCHITECT.</li></ul>	
	<ul> <li>33) LANDSCAPE CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM THAT PROVIDES 100%</li> <li>COVERAGE TO ALL PLANT MATERIAL. CONTRACTOR SHALL PROVIDE IRRIGATION PIPE LAYOUT AND</li> </ul>	
	SPECIFICATIONS FOR APPROVAL BY THE LANDSCAPE DESIGNER. 34) ALL PLANT MATERIAL SHALL BE DROUGHT AND SALT TOLERANT.	
_		
В	NOTES: 1. ALL WOOD SHALL BE SPRUCE OR PINE-NOT PRESSURE TREATED.	
	<ol> <li>CROSS TIES SHALL NOT CROSS OVER WOODY ROOTS.</li> <li>REMOVE ALL STRING &amp;/OR WIRE WRAPPED AROUND TRUNK.</li> <li>REMOVE ALL STRAPS, ROPES, WIRE, &amp;/OR STRINGS USED TO LIFT THE ROOTBALL.</li> </ol>	
٩ >	5. REMOVE ALL BURLAP &/OR WIRE FROM THE TOP OF THE ROOT BALL.         6. TOP OF ROOTBALL TO BE SET LEVEL WITH SURROUNDING FINISH GRADE.	
	E Shart C	- the
77900010001	Ť	MULCH 3" FROM TRUNK MULCH 3" DEPTH
2		TILLED AND LOOSENED NATIVE SOIL BACKFILL WATER RING (6" WIDTH & HEIGHT) PROVIDING
	2"X2"X4' STAKE	A WATER COLLECTION BASIN
		UNIFORMLY AROUND ROOT MASS BETWEEN MIDDLE AND BOTTOM OF ROOT MASS.
		2-2"X4" STAKE W/LONG TAPER MIN. 18" INTO UNDISTURBED SOIL
	2-2.5" 2"X2"X4' STAKE 3 TO 5 TIMES THE WI DRYWALL SCREWS OF THE ROOTBAL	
	TREE PLANTING DETAIL	
	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 <u>ALL</u> EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; <u>AND</u> TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.



SHRUB & GROUNDCOVER PLANTING DETAIL





C9.1

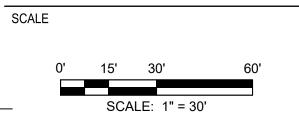
PROJECT NO.

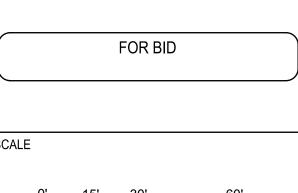
50150622

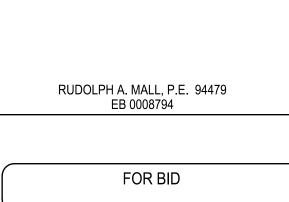
# LANDSCAPE PLAN

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

DATE







**Dewberry** 

Santa Rosa Beach, FL 32459

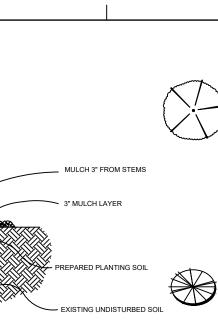
877 CR 393 North

GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA

SEAL

850.267.0759





1. HICKORY (Carya spp.)

and/or 2. SWEET GUM (Liquidambar styraciflua)

and/or 3. LIVE OAK (Quercus virginiana)

1. SMOOTH REDBAY (Persea borbonia)

1. YAUPON HOLLY (llex vomitoria)

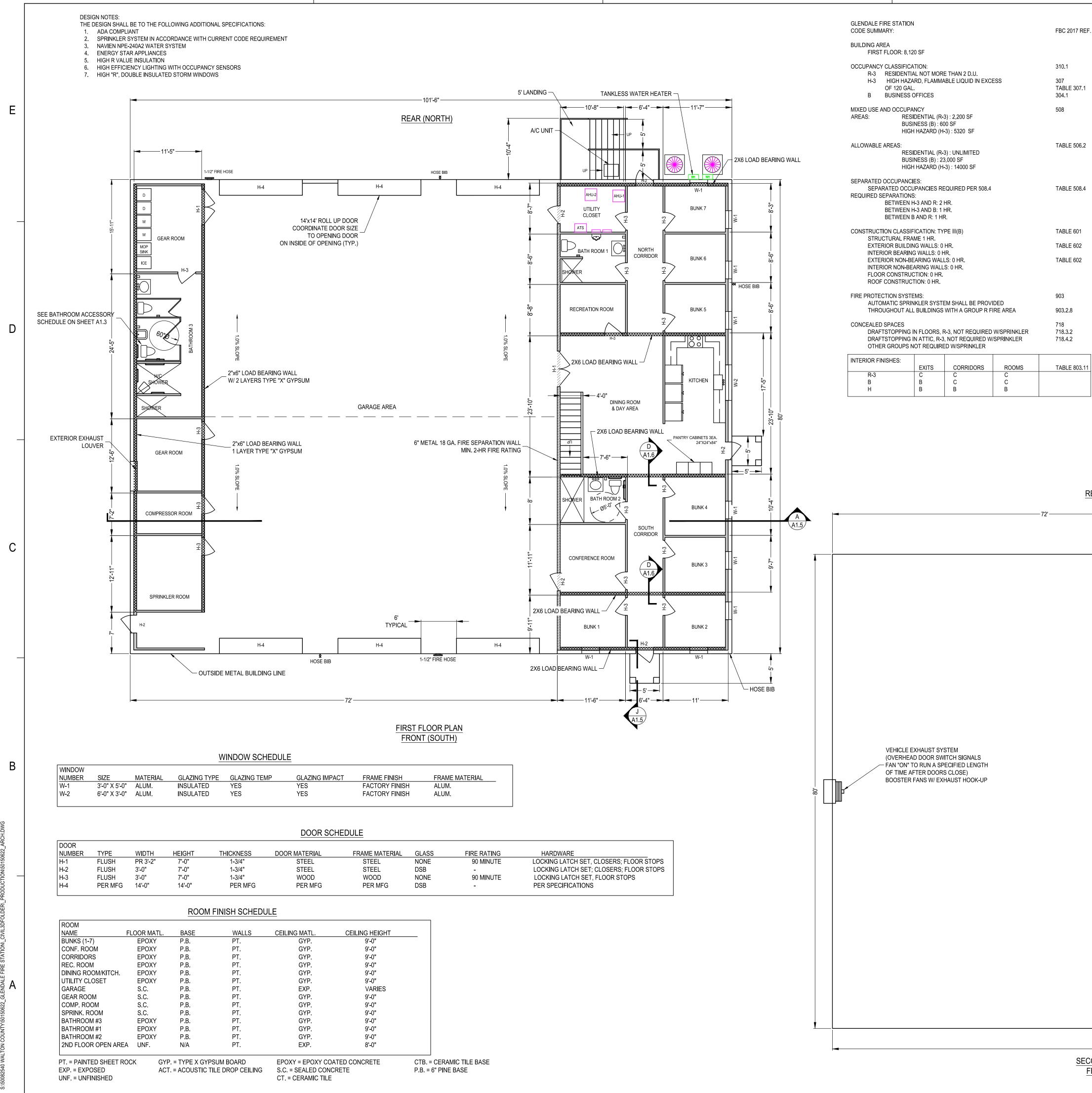
and/or 3. FLOWERING DOGWOOD (Cornus florida)

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

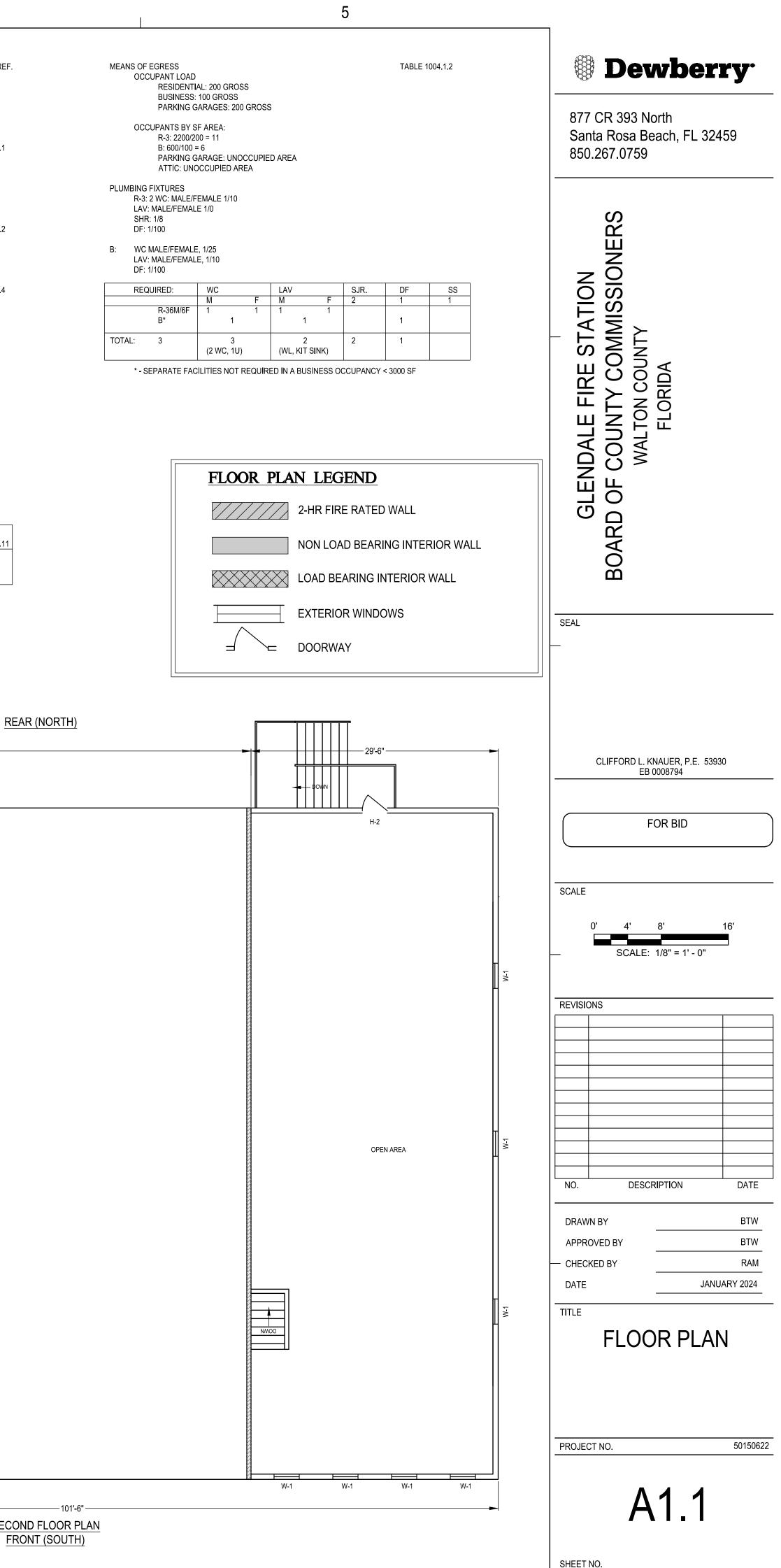
ALL UNDERSTORY TREES TO BE: (MIN. #15 CONTAINER)

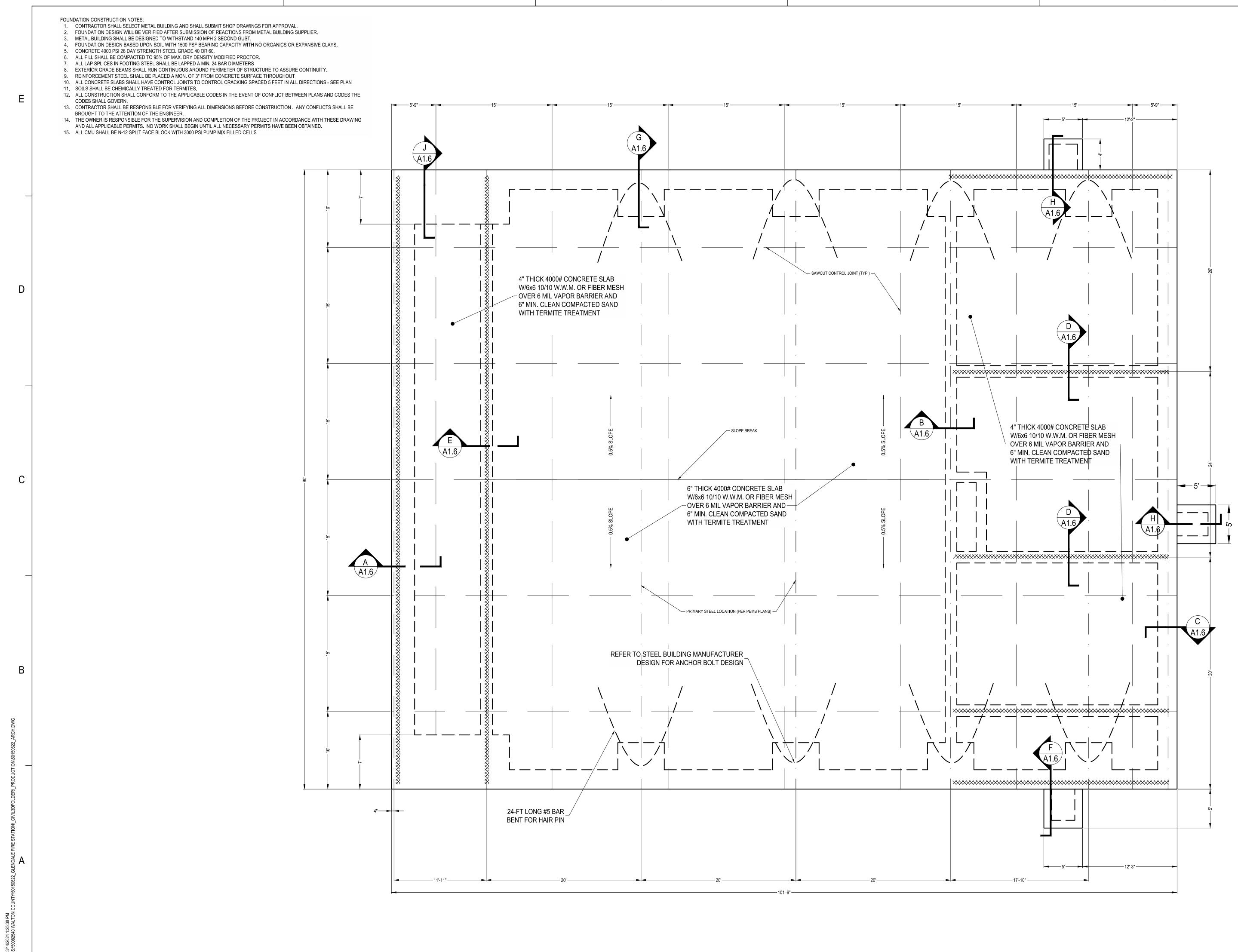
ALL SHRUBBERY PLANTS TO BE: (MIN. #3 CONTAINER)

and/or 2. CREPE MYRTLE (Largerstroemia indica) WATERMELON RED



SECOND FLOOR PLAN FRONT (SOUTH)



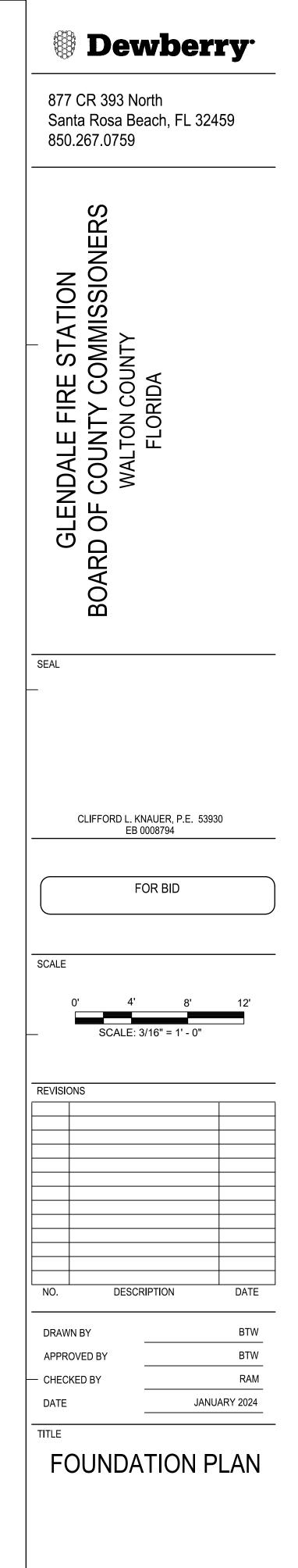


SHEET NO.

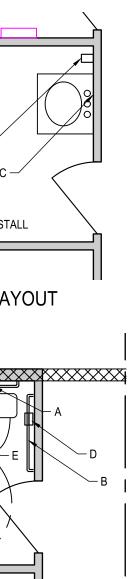
PROJECT NO.

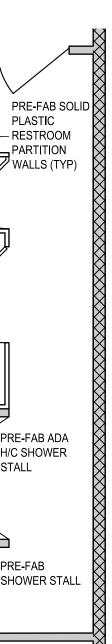
A1.2

50150622

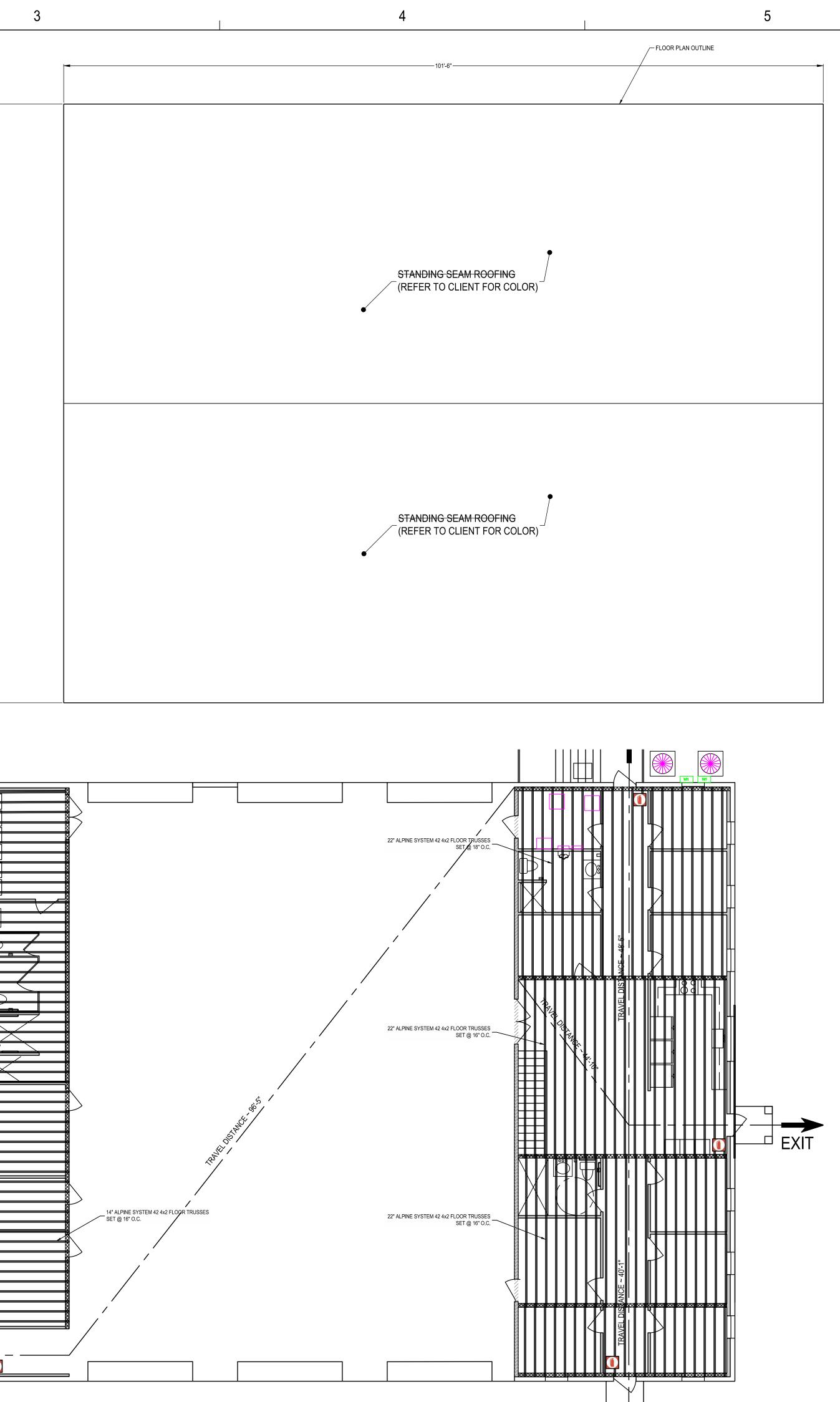


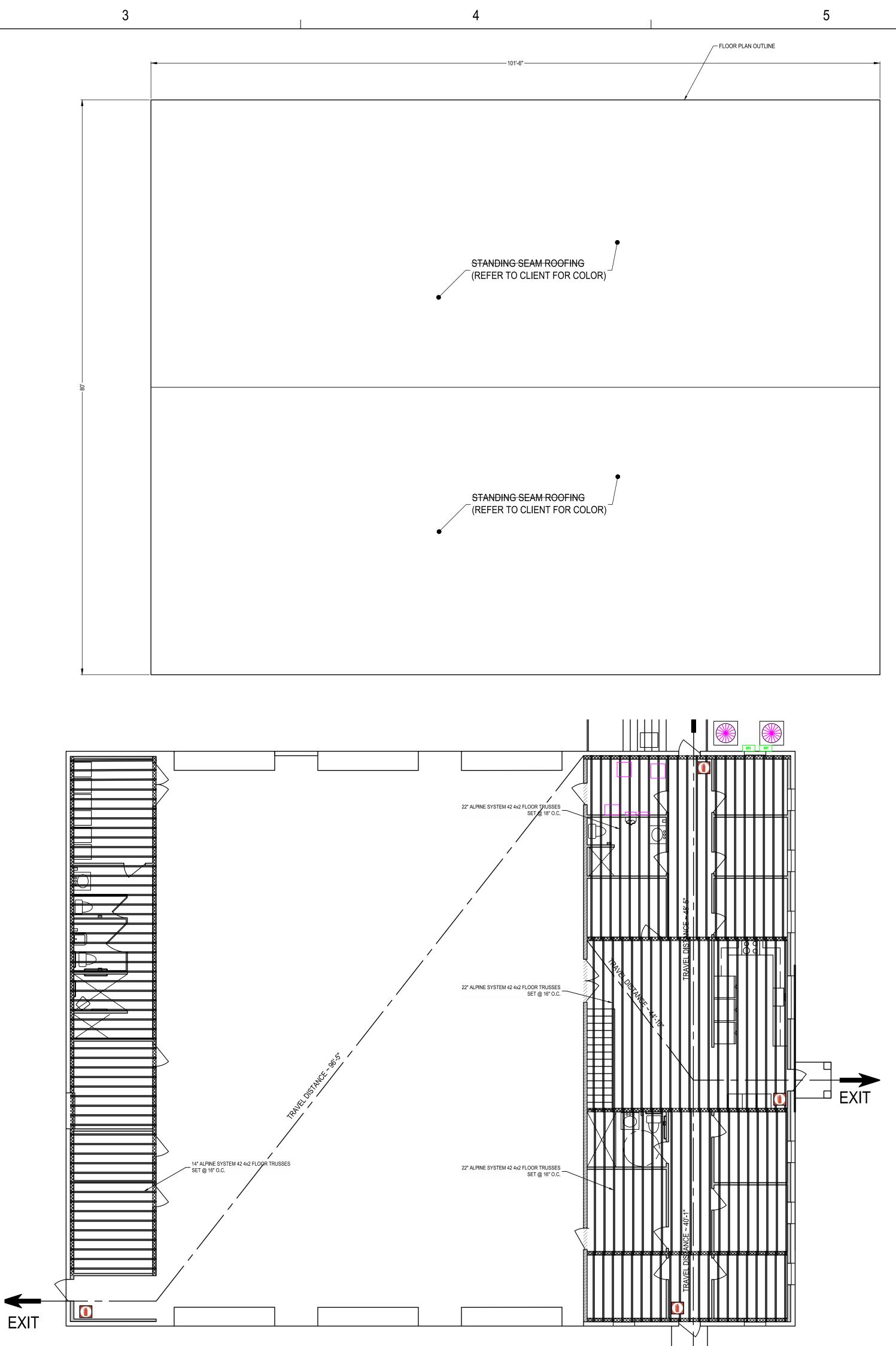
2
BATH ROOM 1 - LA
PRE-FAB SHOWER STALL
BATH ROOM 2 - LA
E
PF B B B B B B B B B B B B B B B B B B B
BATH ROOM 3 - LA
A
A
D SS ERS. FEGRAL
2)
(2

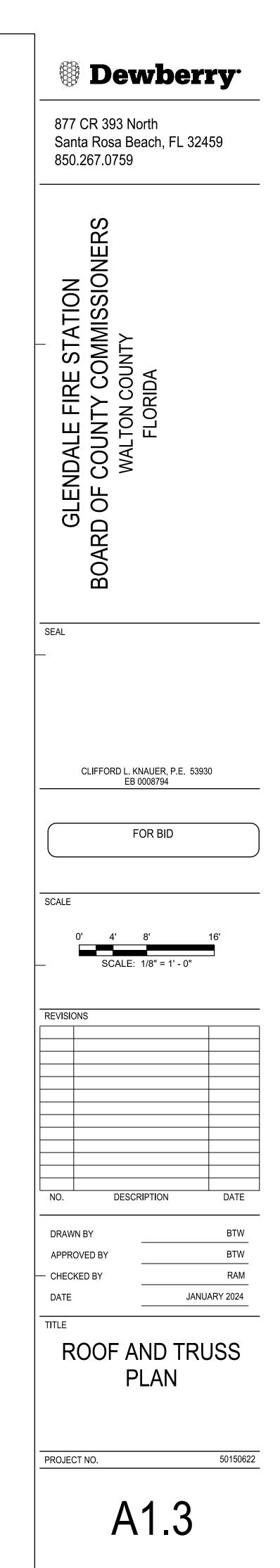


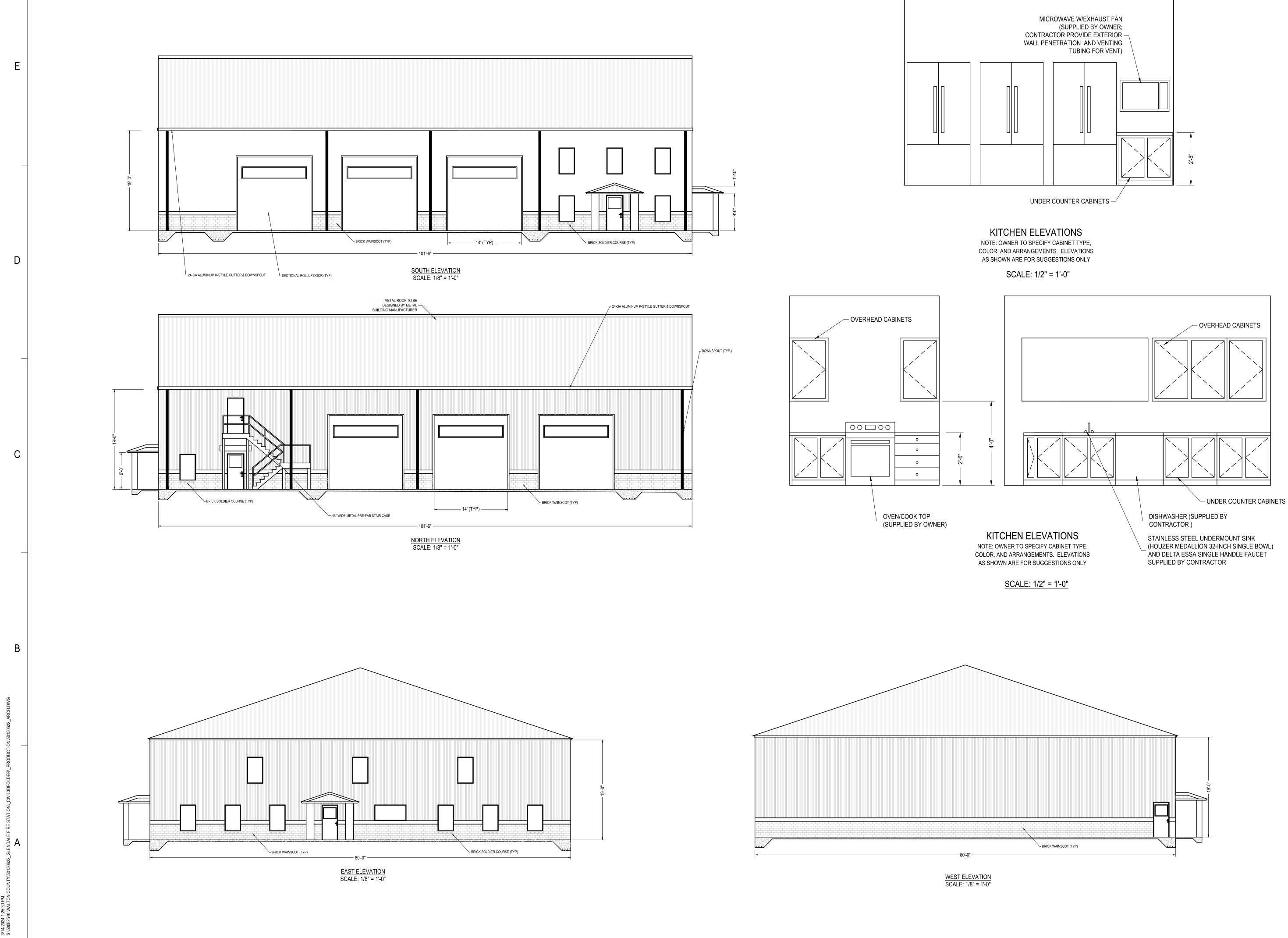


TUC

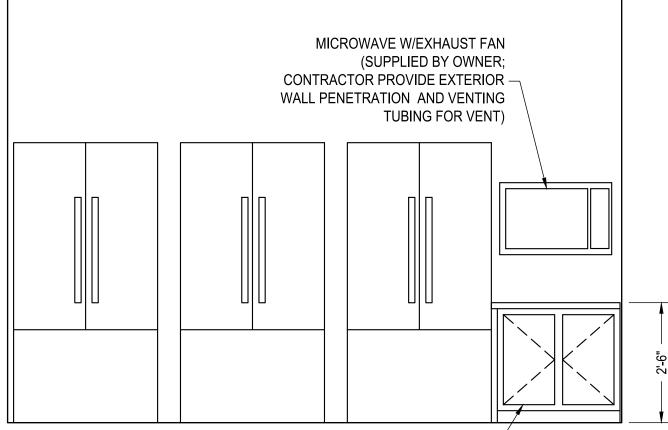


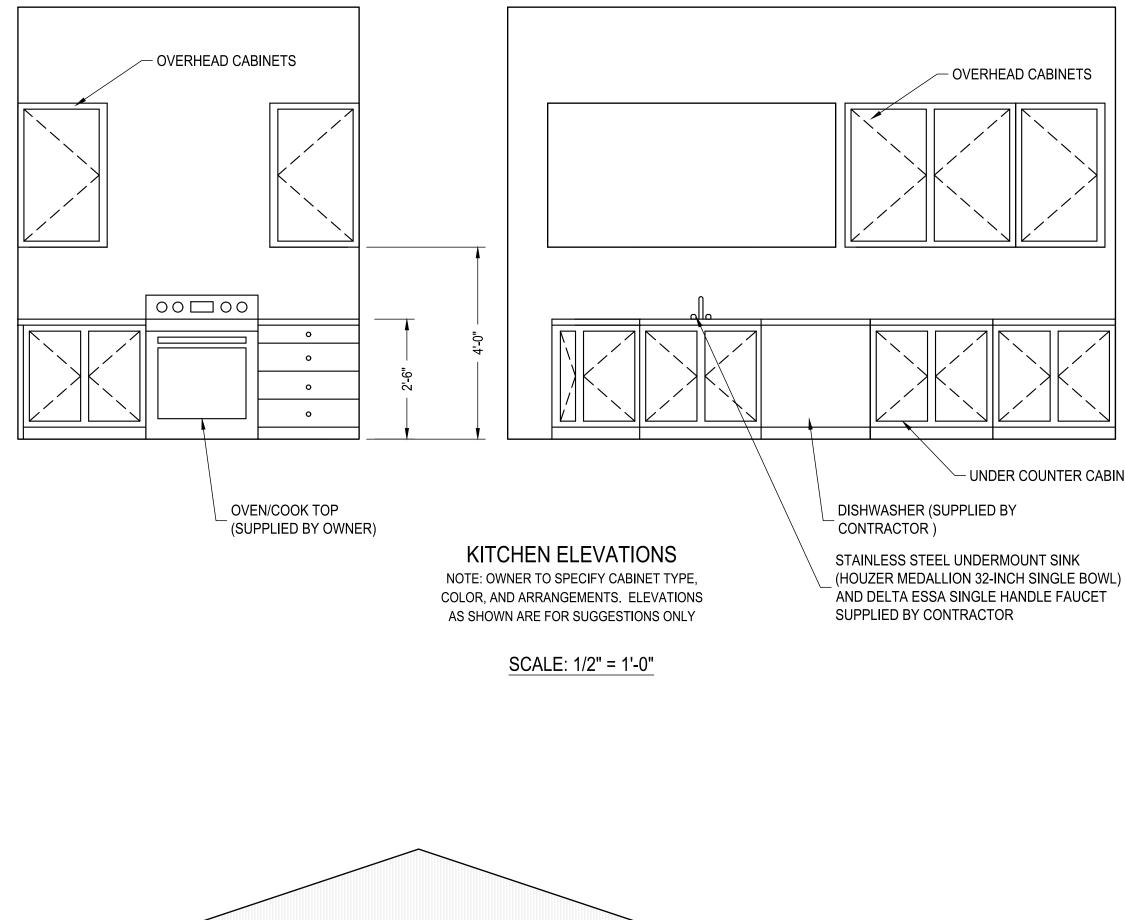


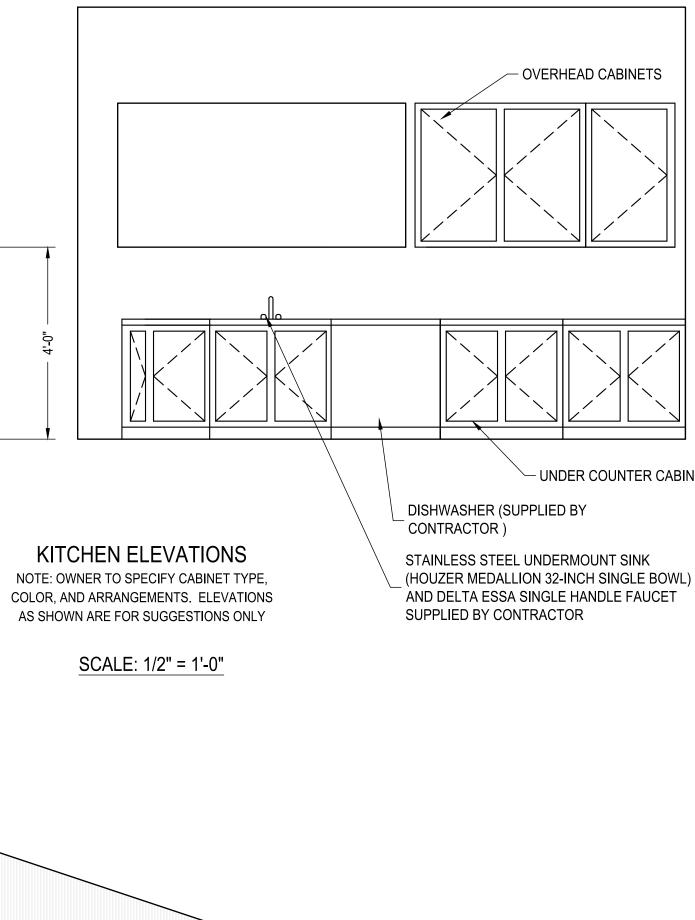




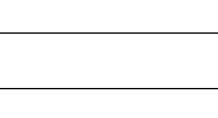


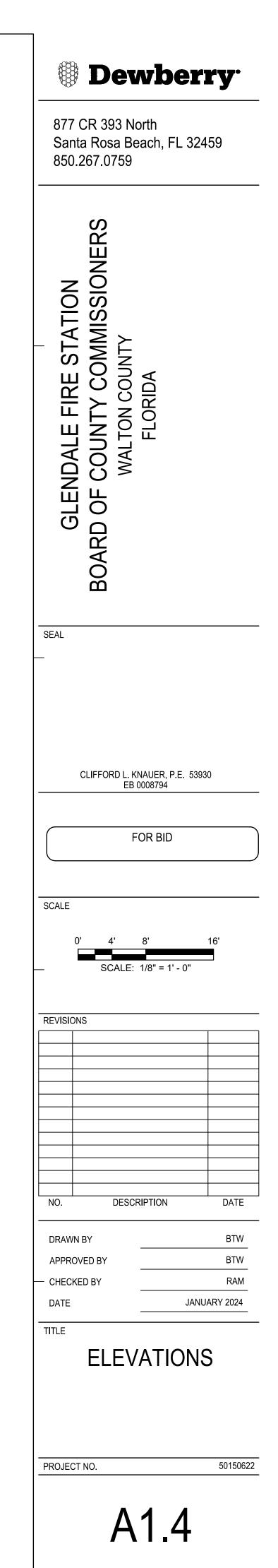


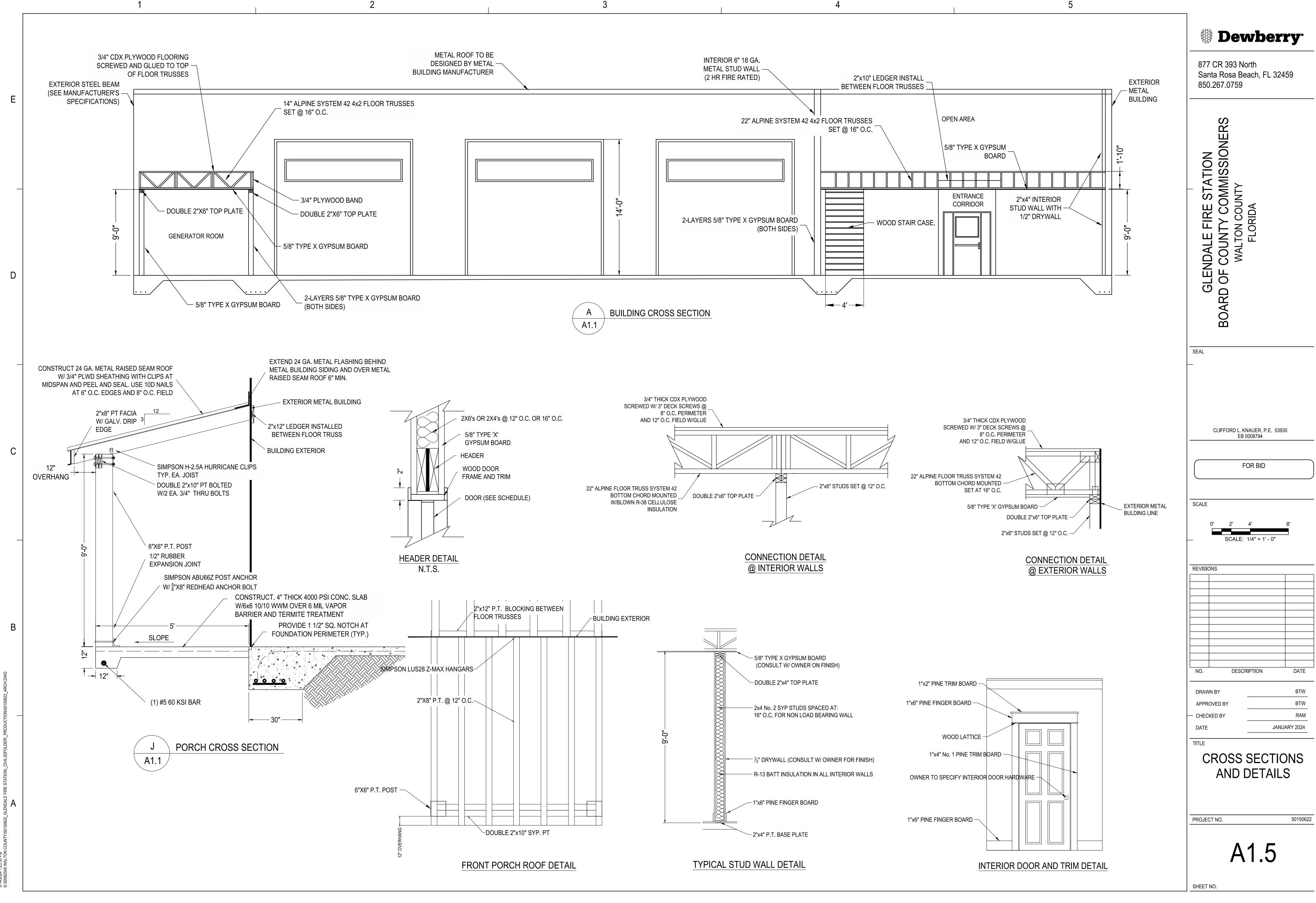


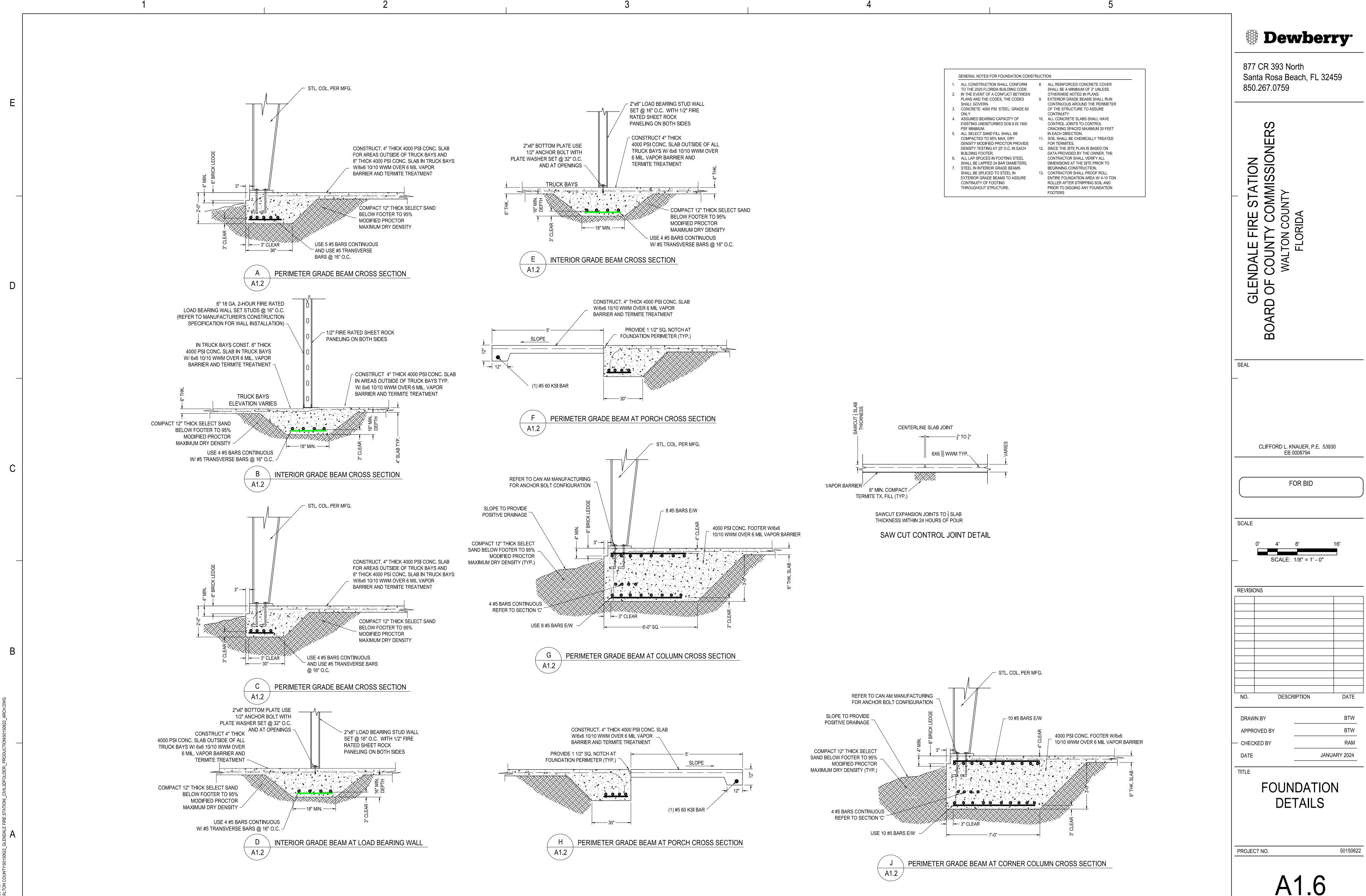












### PRE-ENGINEERED WOOD TRUSS FRAMING

1. THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND IT'S 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" MASONRY ANCHORS OR (4) .17"øx1 1/2" POWDER DRIVEN PINS IF INTO CONCRETE AND TO WOOD MEMBERS WITH NOT LESS THAN (6) 16d NAILS.

11.	MINIMUM	DESIGN LOAD	)S FOR	ROOF TRUS	SSES:
50	PSF	LIVE LOAD		TOP C	HORD
10	PSF	DEAD LOAD		TOP C	HORD
5	PSF	DEAD ΙΟΔΟ		BOTTON	I 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.

3. PROVIDE SEASONED LUMBER WITH 19% MOISTURE CONTENT AT THE TIME OF DRESSING AND SHIPMENT, FOR SIZES 2" OR LESS IN THICKNESS.

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".

11. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, U.O.N.

12. AT ALL BUILT-UP WOOD COLUMNS USE (2) HUGHES AS 5B 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/WWUC 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.

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.

SHEAR WALLS.

BEAMS.

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.

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 GWB-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.

### 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, S4S AND GRADESTAMPED, TO COMPLY WITH PS20 AND APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY ALSC'S BOARD OF REVIEW.

4. COMPLY WITH "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED ROOF TRUSSES".

5. ALL STRUCTURAL LUMBER TO BE MIN SOUTHERN YELLOW PINE NO. 2 S4S, 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, Ex2,000,000 PSI & Fv 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

10. THE INDIVIDUAL STUDS OF BUILT-UP COLUMNS TO BE ADEQUATELY FASTENED TO DEVELOP COMPOSITE ACTION OF THE ASSEMBLY.

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.

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

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 CAP 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

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.

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".

	48°84 <b></b>
	877 CR 393 North Santa Rosa Beach, FL 32459
COLORET MASONEY 1. CONSIDENT MASONEY IN ACCORDANCE WITH SPECIFICATION SECTIONS GROOT AND MASONEY. 2. THE STRUCTURE IS SUPPORTED BY BEARING WALLS, U.O.N. ERECT MASONEY PROFT TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OF CASTING ERANS AND SLABES SUPPORTED BY BEARING WALLS. 3. JEE YOS SOLD, NOMMAL BEARING CONCRETE MASONEY PROFT TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OF CASTING ERANS AND SLABES SUPPORTED BY BEARING WALLS. 4. JEE YOS SOLD, NOMMAL BEARING CONCRETE MASONEY PROFT TO CASTING CONCRETE COLUMNS WITHIN ERARING WALLS OF CASTING ERANS AND SLABES SUPPORTED BY BEARING WALLS. 4. JEE YOS SOLD, NOMMAL BEARING CONCRETE MASONEY DIATS CONGRETING MASONEY BALLS IN A MORT IN MULTIPLES OF 5. UNITS SHALL BE AT LEAST IF LONG, EMAN CONCRETE MASONEY WATS NO MORTAR BEARING MALE ARE NOT IN MULTIPLES OF 5. UNITS SHALL BE AT LEAST IN LONG WITH STRUCTURED DEED SIT INFO WORKE BLOW MARCH BLOW DEED SITE INFO TO COLLES TO BE GOUTED. 5. JEE STRUCTURE IN ACCOMPANY IN ALL CONFERSION FOR MASONE MARCH INFO COLLES TO BE GOUTED. 5. JEE STRUCTURE DAY DEMANDIAL CONFERSION OF MERS, COLUMNS WARE PLANTERS, IN THE STRETING COURSE, AND MERE AN ADARDETI COLL IS TO BE GOUTED REVOLVE MATHER FROTTING/ONE DETAILS OF PRESS, COLUMNS WARE PLANTERS, IN THE STRETING COURSE, AND MERE AN ADARDETI COLL IS TO BE GOUTED REVOLVE MATHER FROTTING/ONE DETAILS OF PRESS, COUNSES, MARCH DE 7500 PS IN 78 DAYS, ABREACH TO DOMAINE ON ACTA FREE REPARABLED COMMONS USE TO DAR TRUCTURE AND MERE AND ADARDETI COLL IS TO BE CAUCH OF MARCH AND AT THE STRETING COURSE, AND AT ALL INTERCETIONS, THE DAR OF COLLS CONTINUES FINES DARIES TO AND CHAR, INT A MINORING COMPASSING STRUCTURE DAR DAR MARCH AND AT ALL INTERCETIONS, FLAD, BERNOR, COLLS CONTINUES FINES DARIES AND MERE MARCH AND AND COMPASSING STRUCTURES. AND AT ALL INTERCETIONS, FLAD FOR THE MARCHANDA AND AT THE MARCHAND AND AT THE MARCH	CLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS MALTON COUNTY FLORIDA FLORIDA
SHALOW 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 FROCTOR 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 PREMETER OF THE STRUCTURE TO ASSURE CONTINUITY. 10. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL GRADEING 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 BECINNING CONSTRUCTION.	CLIFFORD L. KNAUER, P.E. 53930 $EB 0008794$ FOR BID SCALE $0' 4' 8' 16'$ SCALE: 1/8" = 1' - 0" REVISIONS
CHEMCAL ADHESIDE FOR ANCHORING REINFORCING BOLTS. INFRADED BARS & ANCHOR BOLTS 1. USE AN EPOXY, ACPUIL OR POLYSISTER REIN ADHESING YAS THE POWERS RAM POWER-FAST SYSTEM, ALLED FASTKRER ALLED GOLD A-HOO, DR ACCEPTED BOLUVALENT. TOLION MANUFACTURES'S SPECIFICATIONS FOR USE AND INSTALLATION. 2. COMPRIM THE ABSENCE OF REUMPROXING STELL BY DEFLUNG A 1/4" & FILCIT FOR FACH ANCION ON OT CLI TERMFORCING STELL BY DEFLUNG A 1/4" & FILCIT FOR FACH ANCION ON OT CLI TERMFORCING STELL BY DEFLUNG A 1/4" & FILCIT FOR FORCING BAR. HOROUGHLY OLEAN HOLE INSUMMER AND INFORM THE THAN REINFORME BAR. HOROUGHLY OLEAN HOLE INJUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY. 4. PROVIDE ANCHOR EMBEDIATION, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.	Image:
	A1.7



3

SHEET NO.

A1.8

PROJECT NO.

50150622

BTW

# LIFE SAFETY PLAN

APPROVED BY	BTW
— CHECKED BY	RAM
DATE	JANUARY 2024
TITLE	

NO.	DESCRIPTION	DATE

REVISIONS

DRAWN BY

SCALE

SEAL

FOR BID

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

**Dewberry**.

877 CR 393 North Santa Rosa Beach, FL 32459

850.267.0759

GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA

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

SYMBOLS

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

LIFE SAFETY NOTESOCCUPANCY CLASSIFICATIONGROUP B - BUSINESSSPRINKLER SYSTEMYESMAXIMUM OCCUPANT LOAD49 (TABLE 1006.2.1)MAXIMUM EGRESS TRAVEL DISTANCE100 FT (TABLE 1006.2.1)

# ELECTRICAL SPECIFICATIONS



### PACKAGED ENGINE GENERATORS

- 1. MANUFACTURERS: GENERATOR SHALL BE MANUFACTURED BY CATERPILLAR, CUMMINS, KOHLER, AKSA POWER, LJ POWER GENERATORS, GILLETTE GENERATORS, OR TAYLOR POWER SYSTEMS. OTHER MANUFACTURERS MUST BE APPROVED BY THE ENGINEER PRIOR TO SUBMITTING A BID.
- 2. RATINGS: 120/208V, THREE-PHASE; STANDBY POWER RATING AS NOTED ON PLANS/RISER.
- 3. ENCLOSURES: WEATHERPROOF, SOUND-ATTENUATING ENCLOSURE, RATED FOR 120MPH WIND VELOCITY. 4. ENGINE: 4-CYCLE INDUSTRIAL WATER-COOLED, DIESEL FUELED, WITH ELECTRONIC
- CONTROL, CERTIFIED TO US EPA SI STATIONARY EMISSION REGULATION 40 CFR. PART 60; MEET OR EXCEED EPA TIER III. 5. ALTERNATOR: CLASS H INSULATION, 150 C TEMPERATURE RISE, 1% VOLTAGE
- REGULATION (NO LOAD TO FULL LOAD), LESS THAN 5% THD. WITH PERMANENT MAGNET EXCITATION. 6. 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. 8. 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. 9. MOUNTING: THE ENGINE-GENERATOR SET SHALL BE MOUNTED ON A STRUCTURAL
- 10. CRITICAL GRADE SILENCER MUST BE ENCLOSED WITHIN THE UNIT IN A SEPARATE DISCHARGE BOX WITH THERMAL GRADE WRAPPING. 11. UNIT SHALL BE SUPPLIED WITH A LEAD-ACID STARTING BATTERY, WITH A BATTERY
- CHARGER. INSTALLED INSIDE UNIT ENCLOSURE. 12. PROTECTIVE DEVICES: SAFETY SHUTOFFS FOR HIGH WATER TEMPERATURE. LOW OIL PRESSURE, ELECTRICAL OVER-SPEED, AND ENGINE OVER-CRANK SHALL BE
- PROVIDED 13. AN ENGINE-MOUNTED THERMAL CIRCULATION WATER HEATER INCORPORATING AN ADJUSTABLE THERMOSTATIC SWITCH SHALL BE FURNISHED TO MAINTAIN ENGINE JACKET WATER TO 90°F.
- 14. INSTALLATION SHALL INCLUDE STARTUP AND FOUR-HOUR LOAD-BANK TESTING BY MANUFACTURER-CERTIFIED INSTALLER. 15. WARRANTY: MANUFACTURER'S ONE-YEAR WARRANTY.
- 16. PROVIDE EQUIPMENT SUBMITTAL INCLUDING SHOP DRAWINGS, WIRING DIAGRAMS, AND VENDOR'S SELECTION INFO, TO DEMONSTRATE 10% MAXIMUM VOLTAGE DIP. 17. PROVIDE OPERATION AND MAINTENANCE AND TRAINING TO OWNER'S
- REPRESENTATIVE.
- 18. REMOTE ANNUCIATOR: NFPA 110 COMPLIANT (LEVEL 1).

AUTOMATIC TRANSFER SWITCH (ATS)

- 1. 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. 2. 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. 3. ATS CURRENT RATING SHALL BE A CONTINUOUS RATING WHEN THE SWITCH IS
- INSTALLED IN AN ENCLOSURE, AND SHALL CONFORM TO NEMA TEMPERATURE RISE STANDARDS. 4. ATS SHALL BE RATED FOR 42,000 AIC, MINIMUM.
- 5. ATS SHALL INCLUDE AN ELECTRONIC CONTROL PANEL, WITH FIELD-ADJUSTABLE SETTINGS, AND PROGRAMMABLE EXCERCISER.
- 6. 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.
- 7. 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.
- 8. ATS SHALL INCLUDE TIME DELAY ON TRANSFER TO EMERGENCY, PROGRAMMABLE 0-5 MINUTES, FACTORY SET AT 1 SECOND. 9. A SET OF CUSTOMER CONTACTS SHALL BE PROVIDED TO INDICATE BOTH
- EMERGENCY AND NORMAL SOURCE POSITION. 10. ATS SHALL BE SUPPLIED WITH ONE-YEAR MANUFACTURE'S WARRANTY.

# <u>CODES AND S</u>TANDARDS

- 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. WATTSTOPPER #PW-101, OR APPROVED EQUAL.

ROOM OCCUPANCY SENSOR (LOW-VOLTAGE). UNLESS NOTED OTHERWISE, CEILING MOUNTED WATTSTOPPER #DT-300, OR APPROVED EQUAL. PROVIDE ROOM CONTROLLER(S) (#BZ-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. MIINIMUM 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.

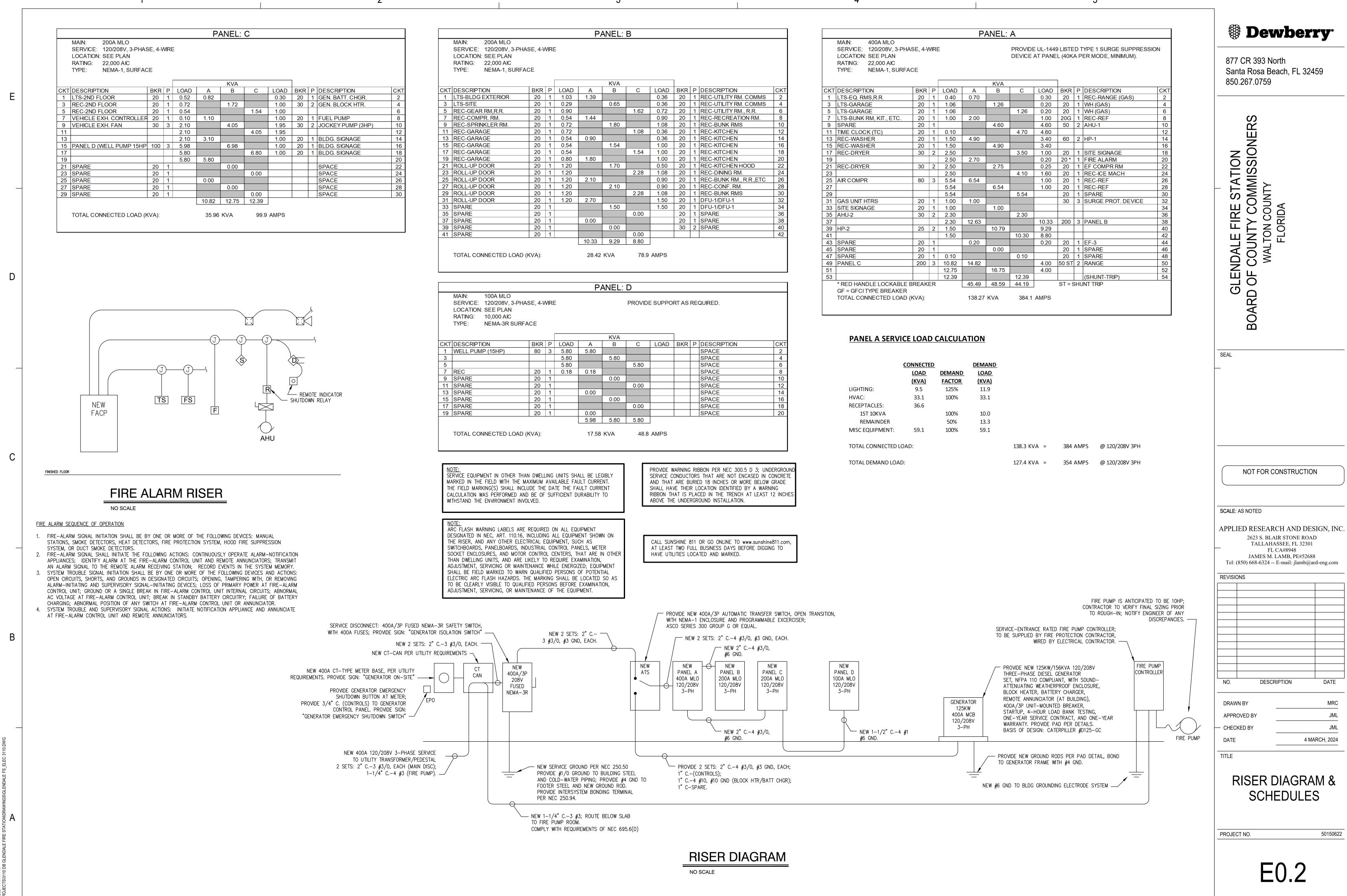
ABBREVIATIONS ELECTRIC WATER COOLER. WEATHERPROOF.

BYT CR 393 North Santa Rosa Beach, FL 32459 850.267.0759 SEAL NOT FOR CONSTRUCTION SCALE: AS NOTED APPLIED RESEARCH AND DESIGN, I 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CAR8948 JAMES M. LAMB, PEPS2688 Tel: (850) 668-6324 - E-mail: jlamb@ard-eng.co	
Santa Rosa Beach, FL 32459 850.267.0759 SEAL SEAL SCALE: AS NOTED APPLIED RESEARCH AND DESIGN, I 2623 S. BLAIR STONE ROAD TALLARSSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jiamb@ard-eng.co	•
SEAL NOT FOR CONSTRUCTION SCALE: AS NOTED APPLIED RESEARCH AND DESIGN, I 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.co	
NOT FOR CONSTRUCTION SCALE: AS NOTED APPLIED RESEARCH AND DESIGN, I 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.co	
NOT FOR CONSTRUCTION SCALE: AS NOTED APPLIED RESEARCH AND DESIGN, I 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.co	
APPLIED RESEARCH AND DESIGN, I 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.co	
2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.co	
NO. DESCRIPTION DATE	
APPROVED BY JM	ML
CHECKED BY JM     DATE 4 MARCH, 202	ML )24
ELECTRICAL	)

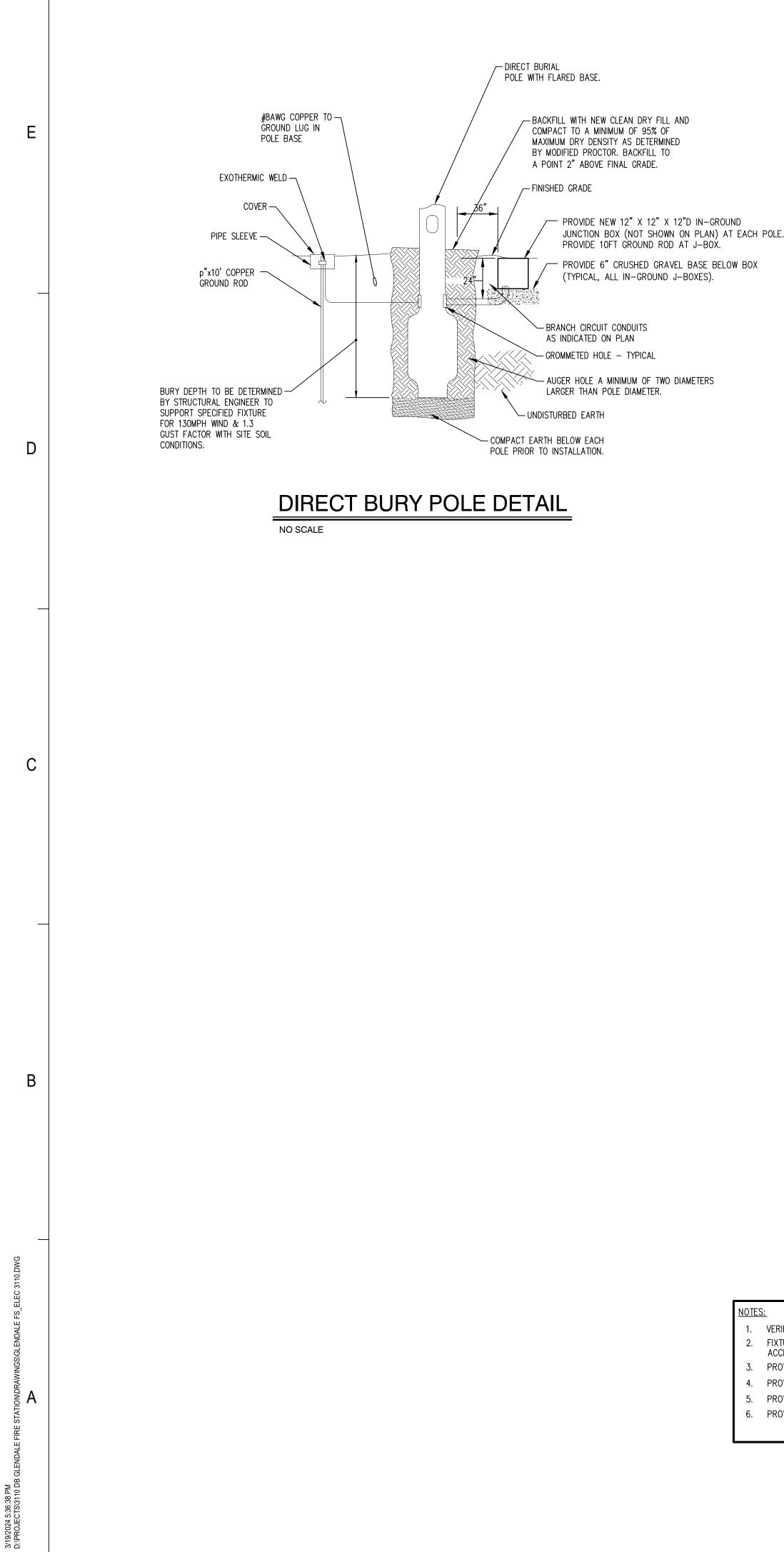
PROJECT NO.

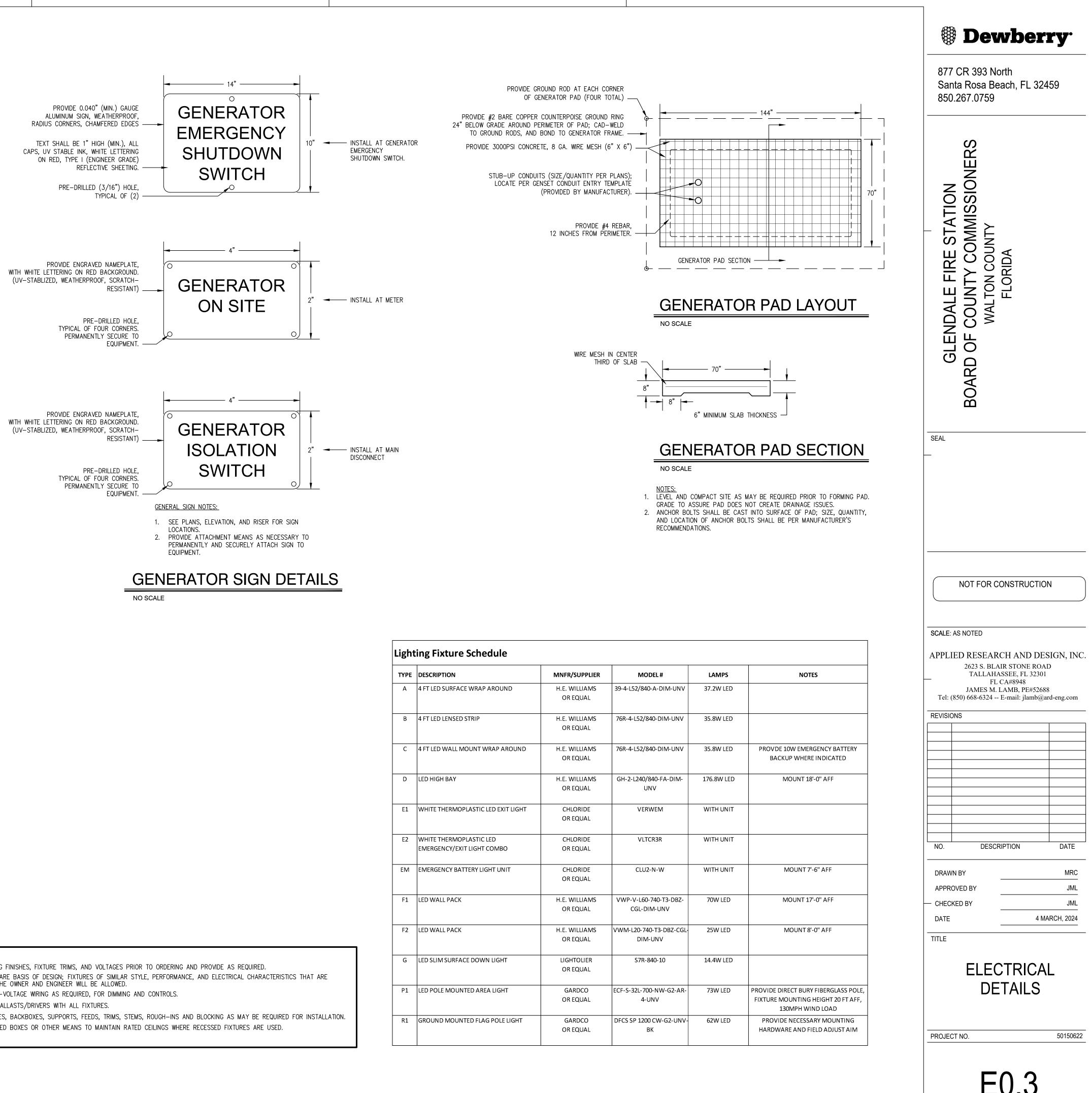
SHEET NO.

50150622



						-			
		-	KVA						
Ρ	LOAD	Α	B	С	LOAD	BKR	Ρ	DESCRIPTION	CKT
1	0.40	0.70			0.30	20	1	REC-RANGE (GAS)	2
1	1.06		1.26		0.20	20	1	WH (GAS)	4
1	1.06			1.26	0.20	20	1	WH (GAS)	6
1	1.00	2.00			1.00	20G	1	REC-REF	8
1			4.60		4.60	50	2	AHU-1	10
1	0.10			4.70	4.60				12
1	1.50	4.90			3.40	60	2	HP-1	14
1	1.50		4.90		3.40				16
2	2.50			3.50	1.00	20	1	SITE SIGNAGE	18
	2.50	2.70			0.20	20 *	1	FIRE ALARM	20
2	2.50		2.75		0.25	20	1	EF COMPR RM	22
	2.50			4.10	1.60	20	1	REC-ICE MACH	24
3	5.54	6.54			1.00	20	1	REC-REF	26
	5.54		6.54		1.00	20	1	REC-REF	28
	5.54			5.54		20	1	SPARE	30
1	1.00	1.00				30	3	SURGE PROT. DEVICE	32
1	1.00		1.00						34
2	2.30			2.30					36
	2.30	12.63			10.33	200	3	PANEL B	38
2	1.50		10.79		9.29				40
	1.50			10.30	8.80				42
1		0.20			0.20	20	1	EF-3	44
1			0.00			20	1	SPARE	46
1	0.10			0.10		20	1	SPARE	48
3	10.82	14.82			4.00	50 ST	2	RANGE	50
	12.75		16.75		4.00				52
	12.39			12.39				(SHUNT-TRIP)	54
ER		45.49	48.59	44.19		ST = 5	SHU		•
		138.27	KVA	384.1	AMPS				





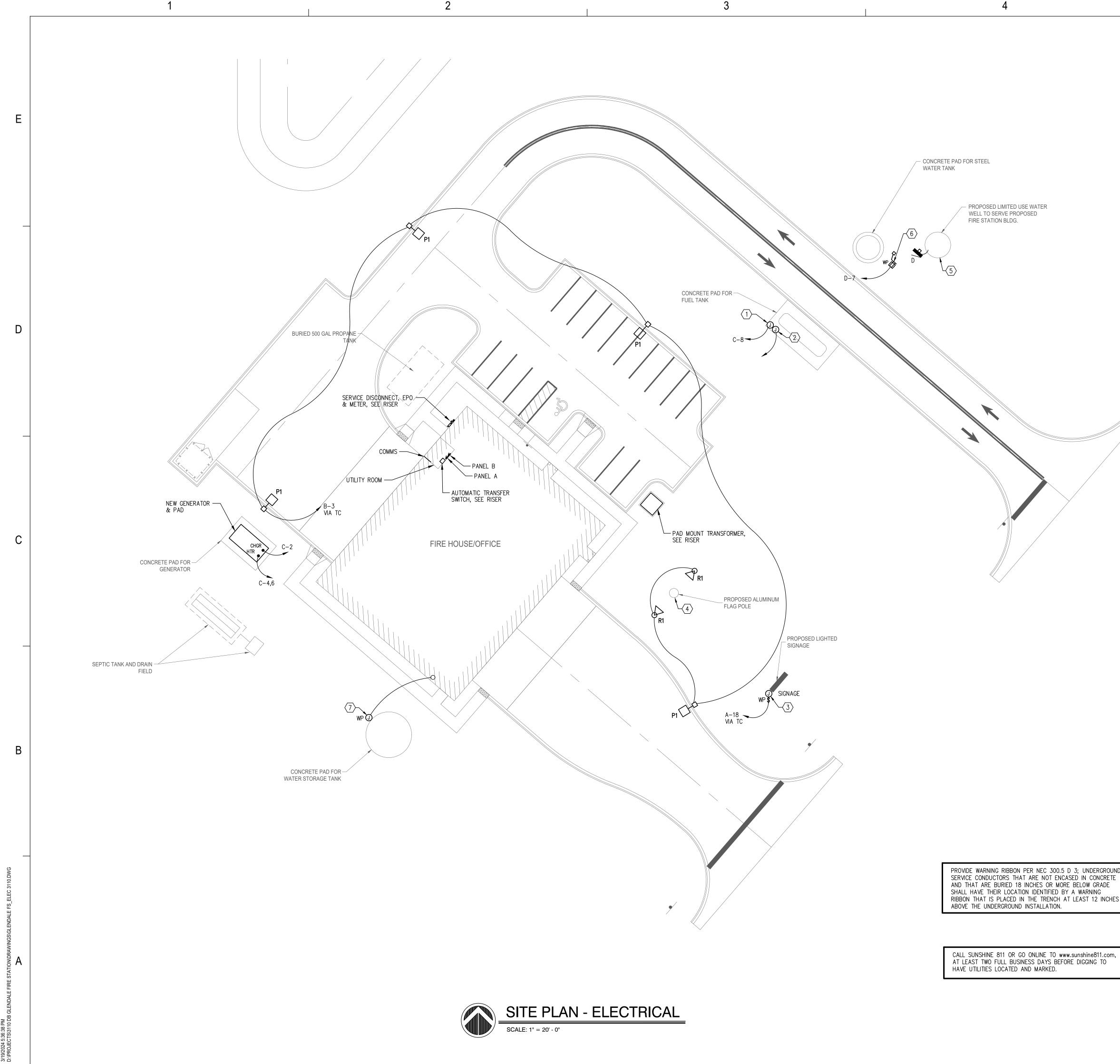
5

TYPE	DESCRIPTION	MNF
A	4 FT LED SURFACE WRAP AROUND	H.E. OI
В	4 FT LED LENSED STRIP	H.E. OI
С	4 FT LED WALL MOUNT WRAP AROUND	H.E. OI
D	LED HIGH BAY	H.E. OI
E1	WHITE THERMOPLASTIC LED EXIT LIGHT	CH
E2	WHITE THERMOPLASTIC LED EMERGENCY/EXIT LIGHT COMBO	Cł
EM	EMERGENCY BATTERY LIGHT UNIT	CI
F1	LED WALL PACK	H.E. OI
F2	LED WALL PACK	H.E. OI
G	LED SLIM SURFACE DOWN LIGHT	LIG
P1	LED POLE MOUNTED AREA LIGHT	G
R1	GROUND MOUNTED FLAG POLE LIGHT	G
		1

I. VERIFY ALL CEILING FINISHES, FIXTURE TRIMS, AND VOLTAGES PRIOR TO ORDERING AND PROVIDE AS REQUIRED. 2. 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. 3. PROVIDE ALL LOW-VOLTAGE WIRING AS REQUIRED, FOR DIMMING AND CONTROLS.

4. PROVIDE LAMPS/BALLASTS/DRIVERS WITH ALL FIXTURES.

5. PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS AND BLOCKING AS MAY BE REQUIRED FOR INSTALLATION. 6. PROVIDE FIRE RATED BOXES OR OTHER MEANS TO MAINTAIN RATED CEILINGS WHERE RECESSED FIXTURES ARE USED.



GENERAL NOTES: (THIS SHEET ONLY)

1. PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS.

5

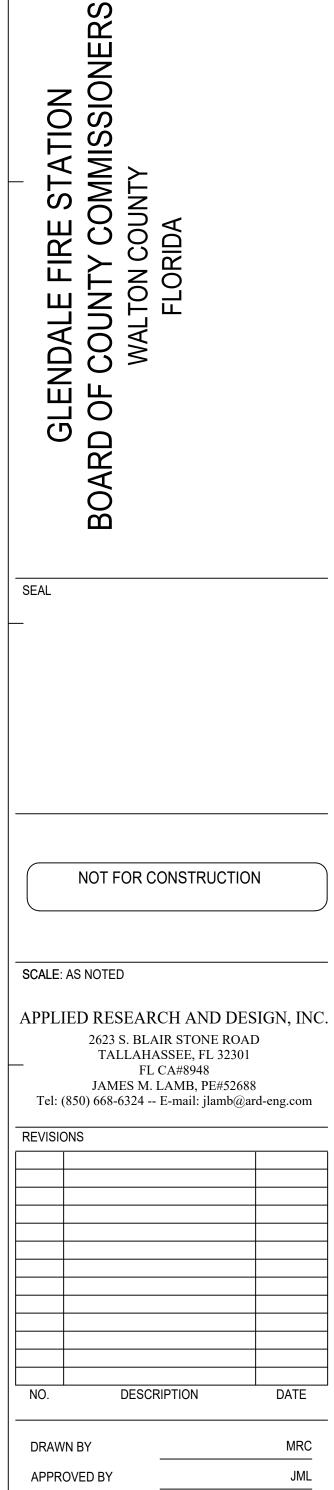
2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

WORK NOTES: (THIS SHEET ONLY)

- T 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.
- FOR SITE SIGNAGE, PROVIDE FLUSH IN-GRADE JUNCTION BOX, 12"x 12" AS  $\langle 3 \rangle$ MANUFACTURED BY QUAZITE OR EQUAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER. PROVIDE 20A/1P SNAP SWITCH IN WEATHERPROOF ENCLOSURE FOR DISCONNECT MEANS WITH 3/4" C.-2 #10, #10 GND, TO PANEL.
- $\langle 4 \rangle$  FLAG POLE, VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- $\langle 5 \rangle$  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 GFCI 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.
- $\langle 7 \rangle$  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).

877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759

Dewberry



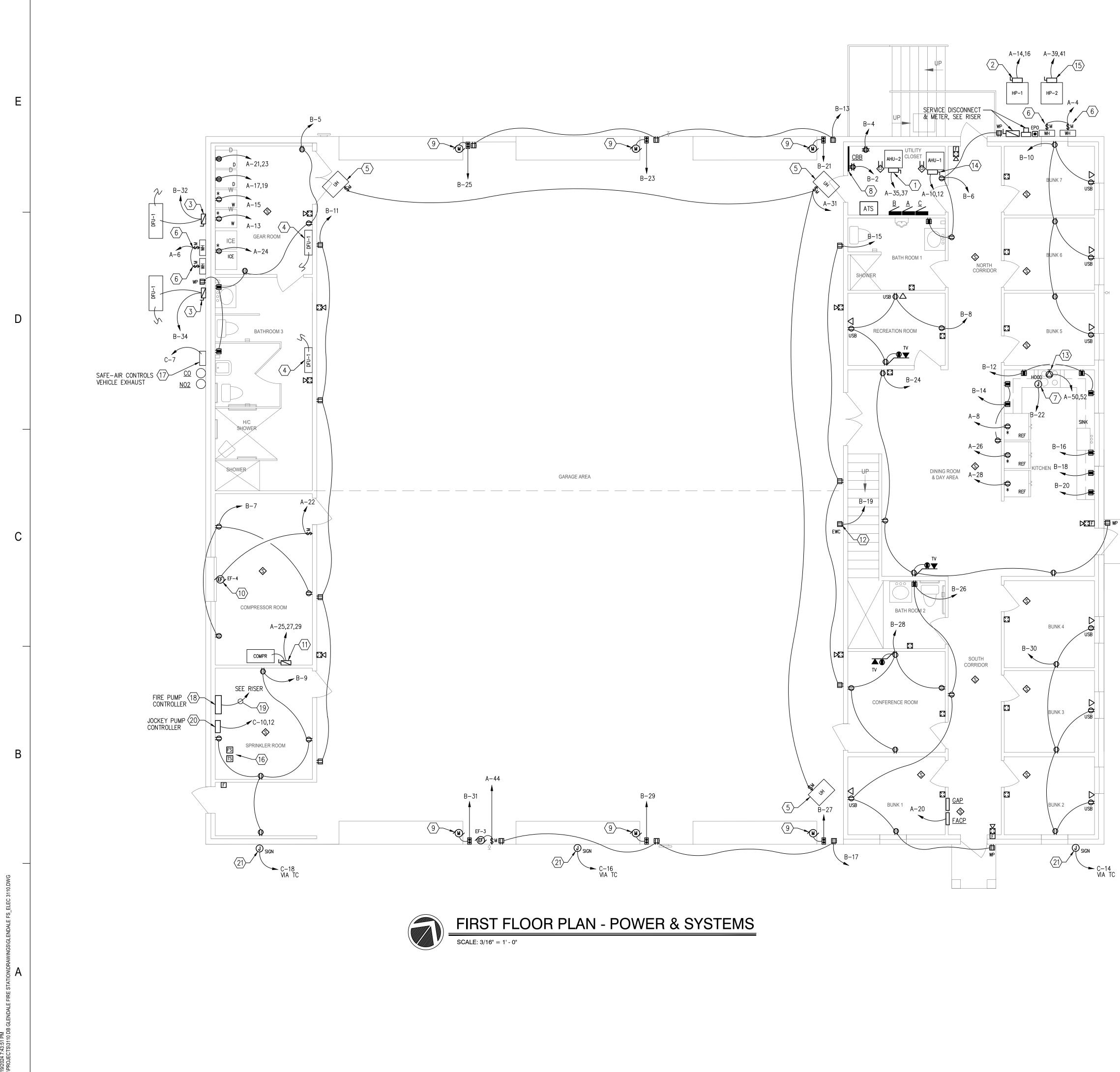
DIVANIN DI	
APPROVED BY	JML
— CHECKED BY	JML
DATE	4 MARCH, 2024
TITLE	

SITE PLAN -ELECTRICAL

PROJECT NO.

50150622





## GENERAL NOTES: (THIS SHEET ONLY)

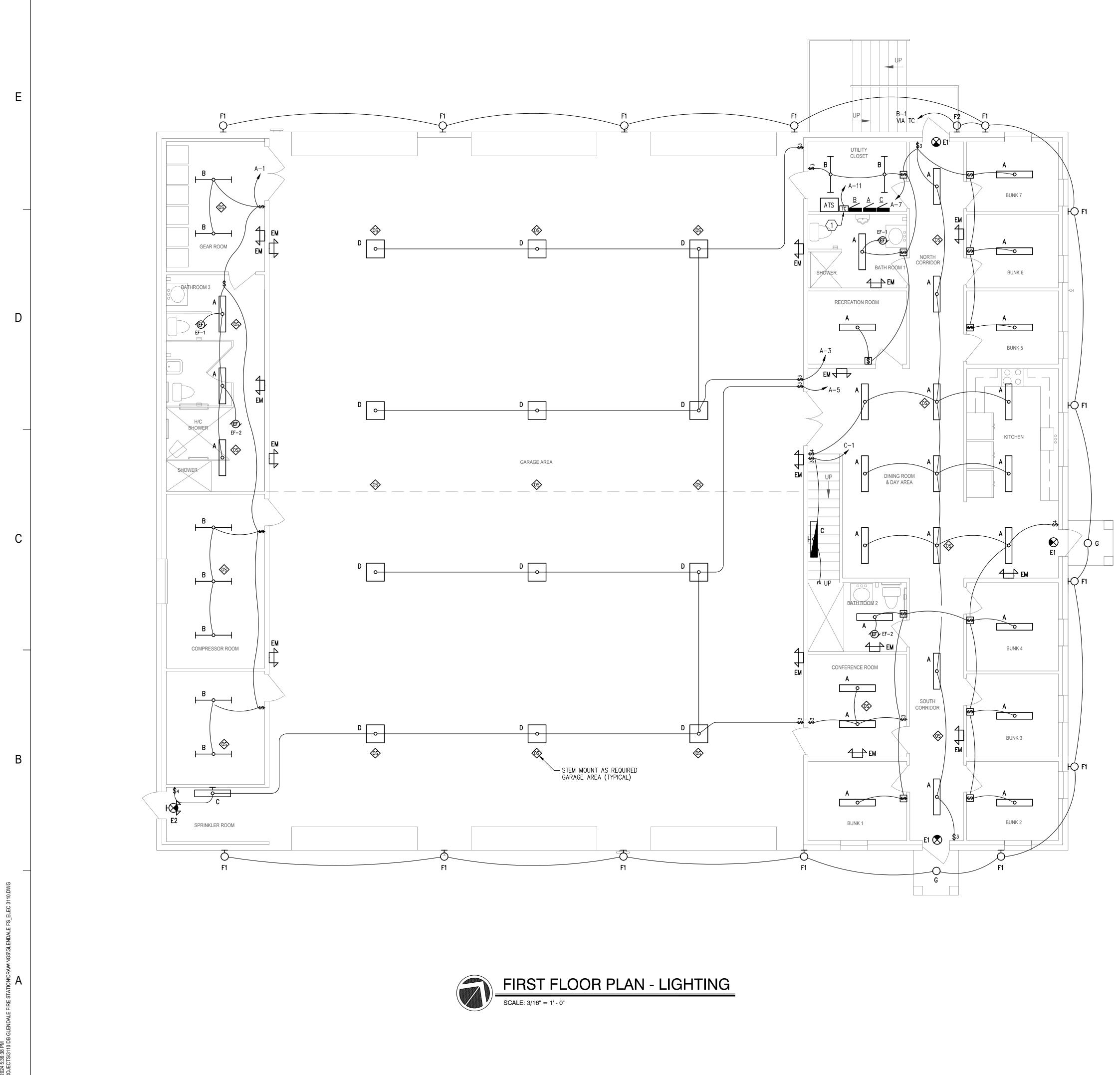
- 1. PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS. 2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

WORK NOTES: (THIS SHEET ONLY)

- (1) 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.
- $\langle 2 \rangle$  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.
- 3 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.
- $\langle 4 \rangle$  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.
- 5 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.
- $\langle 6 \rangle$  GWH; 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.
- $\langle 7 \rangle$  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.
- $\langle 8 \rangle$  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).
- $\langle 9 \rangle$  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.
- (10) 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.
- $\langle 11 \rangle$  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
- (12) 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.
- $\langle 13 \rangle$  ELECTRIC RANGE: PROVIDE 50A 120/240V RANGE RECEPTACLE, WITH 3 #6, #10 GND, TO PANEL; PROVIDE PROVIDE CONNECTION TO PANEL TO SHUNT-TRIP POWER UPON ACTIVATION OF FIRE PROTECTION SYSTEM.
- $\langle 14 \rangle$  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 RECEPTÀCLE CIRCUIT. MOUNT AT OR NEAR AHU.
- $\langle 15 \rangle$  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.
- 16 PROVIDE CONNECTIONS FOR TAMPER AND FLOW SWITCHES. VERIFY EXACT LOCATION AND QUANTITY WITH FIRE PROTECTION CONTRACTOR.
- $\langle 17 \rangle$  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.
- $\langle 18 \rangle$  Fire pump controller, furnished by fire protection contractor. Provide FIRE ALARM SUPERVISORY CONNECTIONS (PUMP RUN, LOSS OF POWER, PHASE REVERSAL, ETC.).
- (19) FIRE PUMP FEEDER: 1" RGSC-3 #4, #10 GND; 3FT LMFC TO MOTOR. COORDINATE EXACT LAYOUT WITH FIRE PROTECTION CONTRACTOR.
- 20 JOCKEY PUMP CONTROLLER; (3HP) 208V, 1PH FURNISHED BY FIRE PROTECTION CONTRACTOR. PROVIDE 3/4" C.-2 #10, #10 GND, TO PANEL. PROVIDE FEEDER TO PUMP (NOT SHOWN).
- $\langle 21 \rangle$  circuit for building signage. Coordiante exact location and requirements with SIGN INSTAALLER.

Bewberry 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759

GLENDALE FIRE STATION BOARD OF COUNTY COMMISSIONERS WALTON COUNTY FLORIDA	
SEAL	
	TION
SCALE: AS NOTED APPLIED RESEARCH AND I 2623 S. BLAIR STONE F TALLAHASSEE, FL 32 FL CA#8948 JAMES M. LAMB, PE#5 Tel: (850) 668-6324 E-mail: jlam REVISIONS	ROAD 2301 52688
NO. DESCRIPTION	DATE
DRAWN BY APPROVED BY CHECKED BY	MRC JML JML 4 MARCH, 2024
TITLE	
FIRST FLOOR POWER & SYS	
PROJECT NO.	50150622
E1.1	



È

5

# GENERAL NOTES:

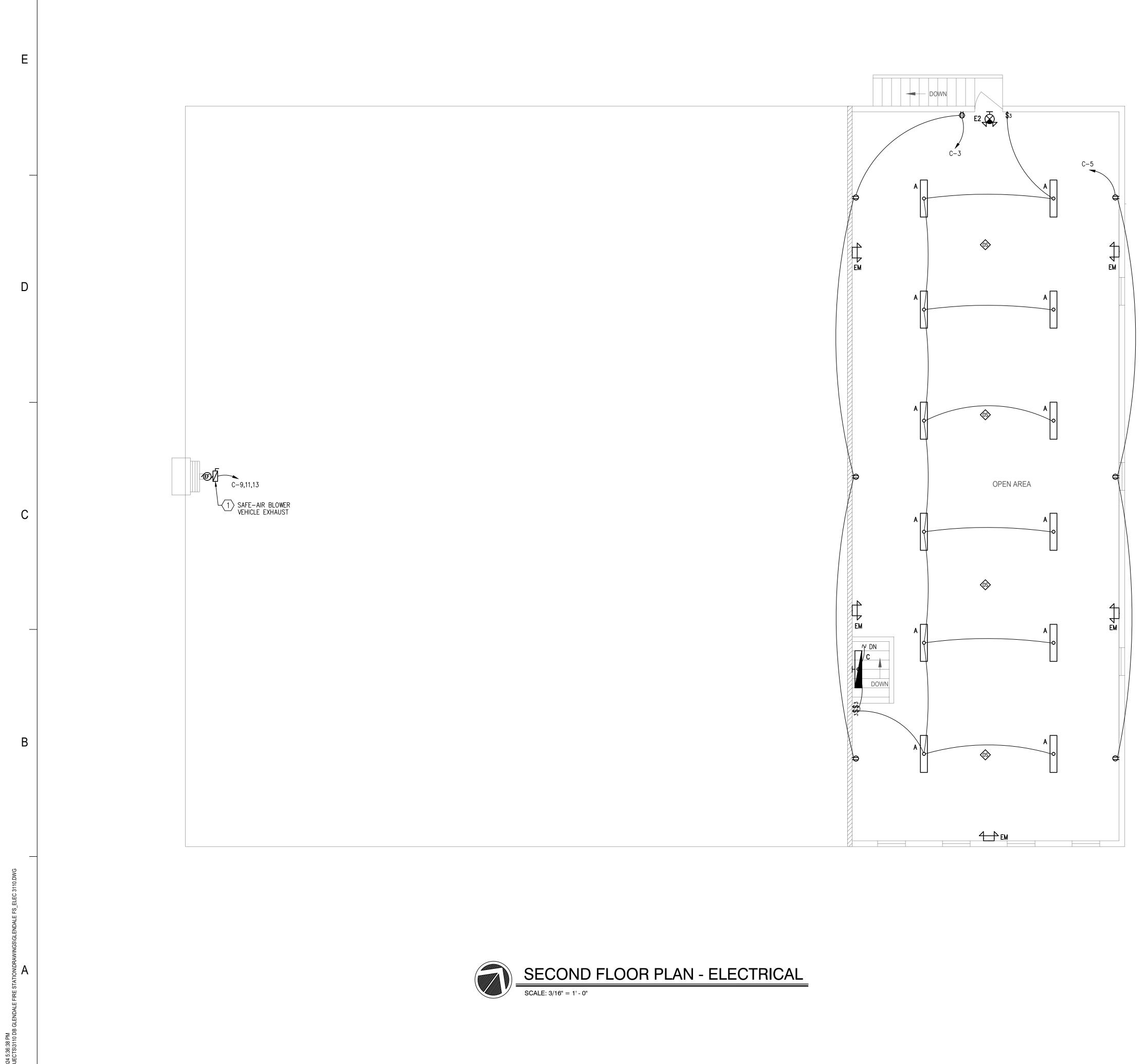
- (THIS SHEET ONLY)
- 1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
- 2. ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
- PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
- 4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

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 EQAUL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.

DRAWN BY MR APPROVED BY JM - CHECKED BY JM DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN		Dewber	ry.
SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL	Santa	Rosa Beach, FL 324	59
NOT FOR CONSTRUCTION  SCALE: AS NOTED  APPLIED RESEARCH AND DESIGN, II 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.cor REVISIONS  REVISIONS  DIALE DIAL	ALE FIF	OARD OF COUNTY WALTON C FLORII	
SCALE: AS NOTED  APPLIED RESEARCH AND DESIGN, II  2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948 JAMES M. LAMB, PE#52688 Tel: (850) 668-6324 E-mail: jlamb@ard-eng.con  REVISIONS  REVISIONS  NO. DESCRIPTION DATE DRAWN BY APPROVED BY OATE 4 MARCH, 202 TITLE  FIRST FLOOR PLAN	SEAL -		
Tel: (850) 668-6324 E-mail: jlamb@ard-eng.com	SCALE: AS N	NOTED RESEARCH AND DES 2623 S. BLAIR STONE ROAD TALLAHASSEE, FL 32301 FL CA#8948	IGN, IN(
DRAWN BY MR APPROVED BY JM CHECKED BY JM DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN			
DRAWN BY MR APPROVED BY JM - CHECKED BY JM DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN			
DRAWN BY MR APPROVED BY JM - CHECKED BY JM DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN			
DRAWN BY MR APPROVED BY JM - CHECKED BY JM DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN	NO.	DESCRIPTION	DATE
- CHECKED BY JM DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN			MRC
DATE 4 MARCH, 202 TITLE FIRST FLOOR PLAN			JML
FIRST FLOOR PLAN			JML RCH, 2024
LIGHTING	FIRS	St floor pi Lighting	_AN -
PROJECT NO. 50150		2	50150622

E1.2



3

5

<u>GENERAL NOTES:</u> (THIS SHEET ONLY)

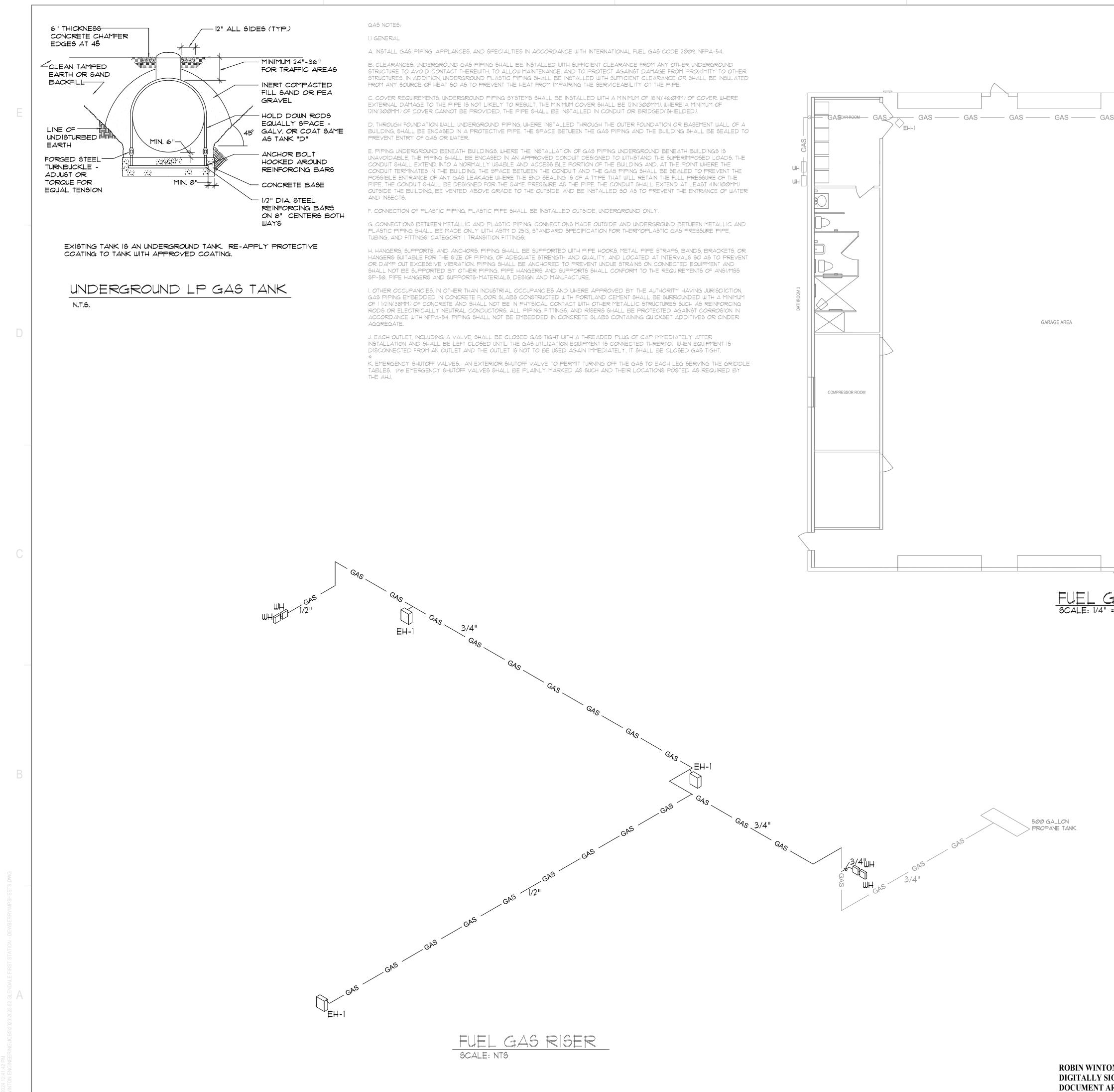
- 1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
- 2. ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
- PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
- 4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

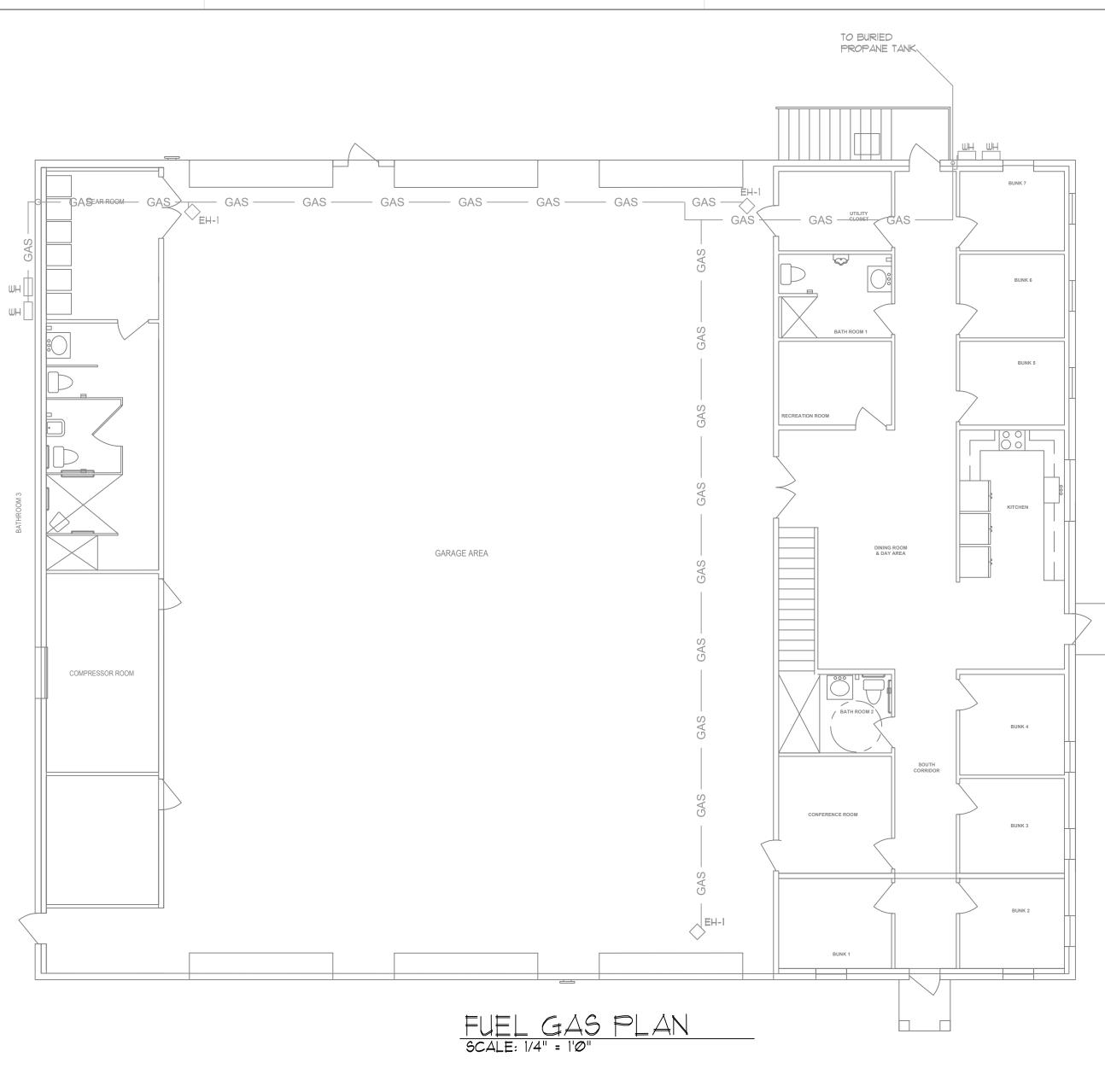
WORK NOTES: (THIS SHEET ONLY)

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.

STATION MMISSIONI	WALTON COUNTY FLORIDA	
GLENDALE FIRE BOARD OF COUNTY CC		
SEAL		
SCALE: AS NOTE APPLIED RE 2623 TA JAN	FOR CONSTRUCTION D SEARCH AND DES S. BLAIR STONE ROAI LLAHASSEE, FL 32301 FL CA#8948 IES M. LAMB, PE#52688 -6324 E-mail: jlamb@ar	SIGN, INC
REVISIONS		
REVISIONS	DESCRIPTION	DATE
NO.		

E1.3





<u>GAS LOAD:</u> <u>BTUH</u> TANKLESS WATER HEATER 199,000 @ 4 796*,000* EH-1 GAS HEAERS 90,000 TOTAL 886,ØØØ UNDILUTED PROPANE SIZING BASED ON 200 FT. EQUIVALENT LENGTH WITH METAL 10 PSI WITH 3 PSI PRESSURE DROP, 1.50 SPECIFIC GRAVITY, TABLE 402.4(26). PIPE SIZING IS BETWEEN FIRST STAGE HIGH PRESSURE REGULATOR AND SECOND STAGE LOW PRESSURE REGULATOR. PROVIDE REGULATOR AT

EACH APPLIANCE AS REQUIRED, REFER TO MANUFACTURES 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.

COUNTY VALTON GLENDALE | D OF COUNT °S ≥ ARD Õ  $\mathbf{m}$ Winton Engineering, P.A. Robin Winton, P.E. 2207 WOODBINE DR. TALLAHASSEE, FL 32309 850-894-5376 FL #562*0*6 PRELIMINARY RPW RPW RPW AUGUST 2023 FUEL GAS PLAN 50150622 FG1.0

**Dewberry** 

FIRE STATION TY COMMISSIONERS N COUNTY

Б П П П

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

	MECH	ANICAL LEG	END
RECTANGULAR DUCT, INSIDE DIMENSIONS, WIDTH BY HEIGHT	20x12 20x12	RETURN, EXHAUST OR O/A DUCT END SECTION	
FIRE DAMPER, 2 HOUR RATING		SUPPLY AIR DIFFUSER PLAN VIEW	
RECTANGULAR DUCT ELBOW WITH VANES, DOUBLE WIDTH		RETURN AIR GRILLE PLAN VIEW	
ROUND SHEET METAL DUCT TAKEOFF WITH SPIN-IN FITTING	S' OF FLEX ALLOWED HARD PIPE UP TO FLEX	RECTANGULAR DUCT, TRANSITION	
AND MANUAL DAMPER	HARD PIPE UP TO FLEX	24" RD. DRYWELL FOR C	ONDENSATE DRAIN
SUPPLY AIR DUCT END SECTION		ROOM THERMOSTAT (MO X IS ASSOCIATED AHU N	UNTED 48" AFF) (T UMBER
		BALANCING DAMPER	

IEAT P	UMP SPLIT SYSTEM SC			
INDOOR UNIT D	ESIGNATION		AHU-1	AHU-2
OUTDOOR UNIT DESIGNATION			HP-I	HP-2
AIR QUANTITIES	6			
TOTAL	SUPPLY AIR	CFM	1,950	1,950
OUTSID	PEAIR	CFM	150	150
HEATING AND (	COOLING CAPACITIES			
TOTAL	HEATING CAPACITY	втин	42,000	22,000
SENSIE	BLE COOLING CAPACITY	втин	36,000	18,000
TOTAL	COOLING CAPACITY	втин	48 <i>,000</i>	24,000
AIR TEMPERAT	URES	•		
COOLIÌ	NG COIL ENTERING	Fdb-Fwb	80-67	80-67
COOLII	NG COIL LEAVING	*Fdb-*Fwb	55-54	55-54
HEATIN	G COIL ENTERING AND LEAVING	*Fdb-*Fdb	52-95	52-95
INDOOR UNIT D	ΑΤΑ			
EXTER	NAL STATIC PRESSURE (INCL. FILTER)	IN. H2Ø	Ø.1	Ø.T
BLOWE	R MOTOR	н <del>Р</del>	1/3	1/3
ELECT			208-230/1	208-230/1
CONDE	INSATE DRAIN SIZE	IN.	3/4"	3/4"
FILTER	LOCATION		UNIT	UNIT
ELECTRIC HEA	Τ ΟΑΤΑ	·		<u>.</u>
HEATIN	G TYPE		ELECTRIC	ELECTRIC
LOCAT	ION		SUPPLY	SUPPLY
ACTUA	L HEATING CAPACITY (NOMINAL CAP.)	ĸW	8	4
VOLTA	GE	V/PH	208-230/1	208-230/1
OUTDOOR UNIT	DATA			
NUMBE	R OF COMPRESSORS/NUMBER OF STAGES	NO.	1	1
ELECT	RICAL CHARACTERISTICS	V/PH	208-230/1	208-230/1
MCA/M	OCP	AMPS (EACH)	26.2/45	14.6/25
UNIT WE	EIGHT	LB6.	292	184
REFRIGERANT .	IYPE		R-410A	R-410A
REFRIGERANT	BUCTION AND LIQUID LINE SIZES	ININ.	MFG	MFG
SEER/SEER2			14.3/15	14/11.5
COP (HEATING,	)		-	-
HSPF (HEATING	)		8.2	8.2
MANUFACTURER	R		DAIKIN	
MODEL NUMBEI	R (INDOOR UNIT)		AMVE48	ARUF24C
MODEL NUMBE	R (OUTDOOR UNIT)		DZ5VC948	DZ146D24

1. ALL AHU'S TO BE VARIABLE SPEED WITH HUMIDITY CONTROL.

3. PROVIDE SINGLE POINT OF POWER. 4. PROVIDE 2" FILTER & RACK.

1. PROVIDE CONDENSATE PUMP FOR ALL AHU'S.

2. T'STAT TO BE HONEYWELL VISION PRO 8000 TYPE WITH HUMIDITY CONTROL.

5. MANUFACTURE TO PROVIDE TRANSFORMER FOR ELECTRIC HEATERS. 6. PROVIDE LONG LINE ACCESSORY FOR REFRIGERANT LINE IF NEEDED.

8. REFER TO MANUFACTURE FOR INSTALL AND SERVICE CLEARANCE.

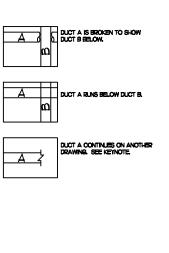
CEI	LING D	IFFUS	BER	SCHE	DULE
BYMBOL	AIR QUANTITY	NECK SIZE	RUNOUT DUCT SIZE	FACE DI HARD CEILING	MENSION LAY-IN CEILING
$\boxtimes$	0-60	6"¢	8"¢	12 × 12	$24 \times 24$
$\boxtimes$	65 - 150	8"¢	8"¢	16 X 16	24 × 24
$\boxtimes$	155 - 195	8"¢	10"\$	16 X 16	$24 \times 24$
$\boxtimes$	200 - 250	1Ø"¢	10"\$	2Ø × 2Ø	24 × 24
$\boxtimes$	255 - 395	iØ"¢	12"¢	2Ø × 2Ø	$24 \times 24$
$\boxtimes$	400 - 550	12 " <del>0</del>	12"¢	$24 \times 24$	$24 \times 24$
$\boxtimes$	555 - 595	12"¢	14"¢	24  imes 24	$24 \times 24$
$\boxtimes$	600 - 745	14"¢	14"¢	$24 \times 24$	$24 \times 24$
$\boxtimes$	750 - 1000	16"4	16"¢	30 X 30	30 X 30

CE	ILING F	RETURN
E×⊢	IAUST RE	EGISTER
SYMBOL	. CFM	SIZE
	Ø - 75	8×6
	80 - 105	10 × 6
	110 - 175	10  imes 10
	180 - 270	12 × 12
	275 - 325	18 × 12
	330 - 800	24  imes 24
	805 - 1200	$24 \times 24$
	1205 - 1500	24  imes 24

I, ALL DIFFUSER TO BE TITUS TYPE TWS OR EQUAL 2. RETURN GRILLES TO BE TITUS 350RL TYPE.

EXHAUST F,
UNIT DESIGNATION
AIR FLOW
STATIC PRESSURE
FAN MOTOR POWER
FAN SPEED
DRIVE
SONES
WEIGHT
ELECTRICAL CHARACT
MANUFACTURER
MODEL NUMBER
<u>NOTES:</u>
1. MOUNT ALL EXHAUST 2. PROVIDE FAN SPEEL 3. WIRE EXHAUST FANS

# MECHANICAL GENERAL NOTES



A

AIR OR CHEDULE
RUNOUT SIZE *
10×6
12 × 6
12 × 8
14 × 8
2Ø X B
26 X 10
26 × 12

26 imes 14\* THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS.

1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS SECTION APPLIES TO ALL AIR CONDITIONING, SHEETMETAL, 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 FOULING. 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 SHALL MATCH EXISTING ADJOINING SURFACES.

7. SEE GENERAL REQUIREMENTS FOR ELECTRICITY 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

INVOLVED ON THE JOB WHEN ANY WORK IS IN PROGRESS. ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES OR REGULATIONS GOVERNING THE INSTALLATION OF SUCH EQUIPMENT. IF WORK, AS LAID OUT, INDICATED OR SPECIFIED IS RECOGNIZED TO BE CONTRARY TO OR CONFLICTING WITH LOCAL ORDINANCES OR REGULATIONS, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER BEFORE SUBMITTING A BID. THE ENGINEER WILL THEN ISSUE INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF CONFLICTS OR OMISSIONS NOTED ABOVE, ALL CHANGES REQUIRED TO COMPLY WITH ORDINANCES AND REGULATIONS SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

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. NEPA 70, NATIONAL ELECTRICAL CODE 5. NEPA 101. LIFE SAFETY CODE

6. NEPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS 7. NEPA 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 CONSTRUED 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 HYAC 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 ON 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 HORIZONTAL AND VAPOR RISERS. ALUMINUM, INSIDE ALL SUPPLY, RETURN, EXHAUST AND FRESH AIR 34. TUBING SHALL BE INSTALLED WITH MOISTURE INDICATOR SIGHT DUCTS SHALL BE GALVANIZED METAL, COMPLETELY SEALED, FINISHED WITH 2" EXTERNAL INSULATION HAVING VAPOR, RETARDING JACKET (FSK GLASS LOCATED IN THE LIQUID LINE ADJACENT TO THE OUTDOOR UNIT. TYPE). INSULATION SHALL COMPLY WITH UL 181 AND MUST HAVE FLAME 35. THOROUGHLY CLEAN REFRIGERANT PIPE FITTINGS BEFORE SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING NO HIGHER ASSEMBLY. ALL JOINTS ARE TO BE MADE WITH SILVER ALLOY BRAZE THAN 50. MELTING ABOVE 1100 DEGREES F. NO ACID FLUX 15 TO BE USED ON

ANY JOINT.

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

21. THERMOSTATS TO BE I 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. DRAING 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 IT REPOUTE 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.

21. 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 SMACNA

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) SMACNA (D) NFPA

(E) AMCA STANDARD HANDBOOK 99 (E) AIR DIFFUSION COUNCIL TEST CODE 1062R3

(G) SECCI STANDARD MECHANICAL CODE (I) ANGI

(J) ASME (K) AGA

AN SCHEDULE				
	EF-1	EF-2	EF-3	EF-4
CFM	140	Ø۲	800	380
IN. WC	Ø.5	0.5	Ø.5	Ø.5
HP	13ØW	100W	.098 HP	111Ø W
RPM	1,050	732	1725	1050
	DIRECT	DIRECT	DIRECT	DIRECT
SONES	3.5	1.5	11	3.5
LBS	10	10	2Ø	10
ERISTICS V/PH	115/1	115/1	115/1	115/1
	GREENHECK	GREENHECK	GREENHECK	с <i>оо</i> к
	SP-B150	SP-BIIØ	SE1-10-440	GC-542
	•	•		

T FANS IN ACCORDANCE WITH MFG INSTRUCTIONS.

D CONTROLLERS FOR ALL EXHAUST FANS. WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH.

4. PROVIDE BACK-DRAFT DAMPER 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.

# SPECIFICATIONS:

			DFU-1	
System	Size		9K	
Oystern	Outdoor Model		38MARBQ09AA	
	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	
Electrical	MCA	A.	15	
	MOCP - Fuse Rating	A.	15	
Operating	Cooling Outdoor DB Min - Max	°F(°C)	-22~122 (-30~50	
Range	Heating Outdoor DB Min - Max	°F(°C)	-22~86 (-30~30)	
	Total Piping Length	ft (m)	82 (25)	
Piping	Piping Lift*	ft (m)	32 (10)	
грид	Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	
	Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	
	Refrigerant Type		R410A	
Refrigerant	Metering Device		EEV	
	Charge	lbs (kg)	2.6 (1.18)	
	Face Area Sq. Ft.		4.7	
Outdoor Coil	No. Rows		2	
	No. Rows Fins per inch		20	
	Circuits		4	
	Туре	Rotary Inverter		
	Model	KTN110D42UFZ		
Compressor	Oil Type		VG74	
	Oil Charge Fl. Oz.	11.8		
	Rated Current RLA		6.0	
	Unit Width in (mm)	31.69 (805)		
	Unit Height in (mm)	24.21 (615)		
	Unit Depth in (mm)	12.99 (330)		
Outdoor	Net Weight Ibs (kg)	7	4.07 (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

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

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

36. ALL CONDENSATE DRAINS SHALL TERMINATE INTO ROOF GUTTER. SECURE TO ROOF SEAMS 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 FANS
- INSULATION MATERIALS CONTROLS
- G. PIPING

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

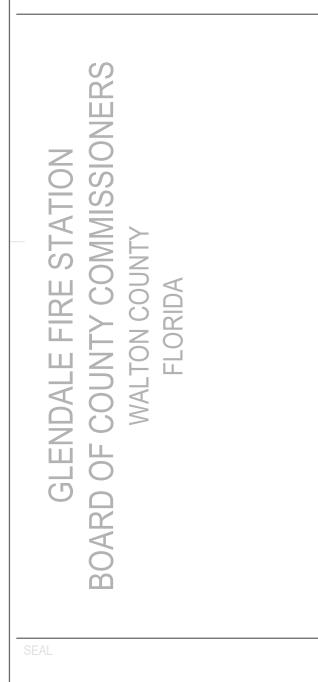
39. ALL FEES, PERMITS, TAPS, LICENSE, INSURANCE, AND BONDS SHALL BE PAID BY THIS CONTRACTOR FOR ALL RELATED WORK. 40. ROUTE REFRIGERANT PIPING AS SHOWN ON DRAWINGS. MANUFACTURE TO SIZE REFRIGERANT PIPING.

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.

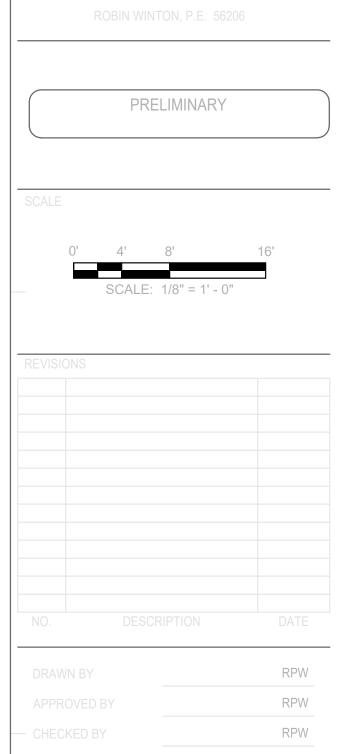
		DFU-1
Size		9K
Indoor Model		40MPHBQ09XA3
		Electrical
Voltage-Phase-Cycle	V/Ph/Hz	208/230-1-60
Power Supply		Indoor Unit Powered
		From Outdoor Unit
MCA	Α.	0.3
		Operating Range
Cooling Indoor DB Min - Max	° F (° C)	62~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)
		Piping
Pipe Connection 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 h		29/35.5/41.5/45.6
Heating Sound Pressure (lowest to h	nigh <b>et≌)</b> (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.

Dewberry



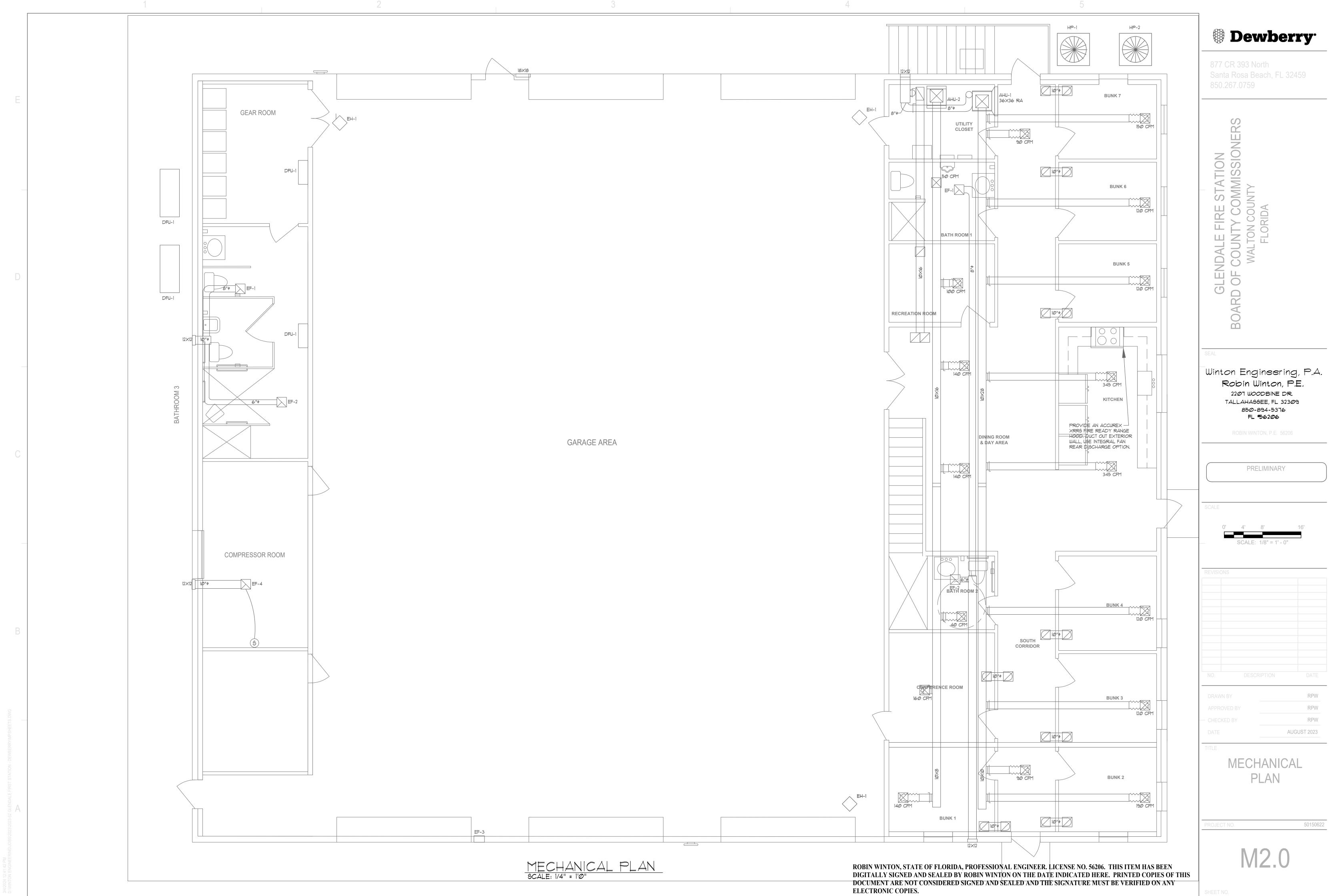
Winton Engineering, P.A. Robin Winton, P.E. 2207 WOODBINE DR. TALLAHASSEE, FL 32309 850-894-5376 FL #56206

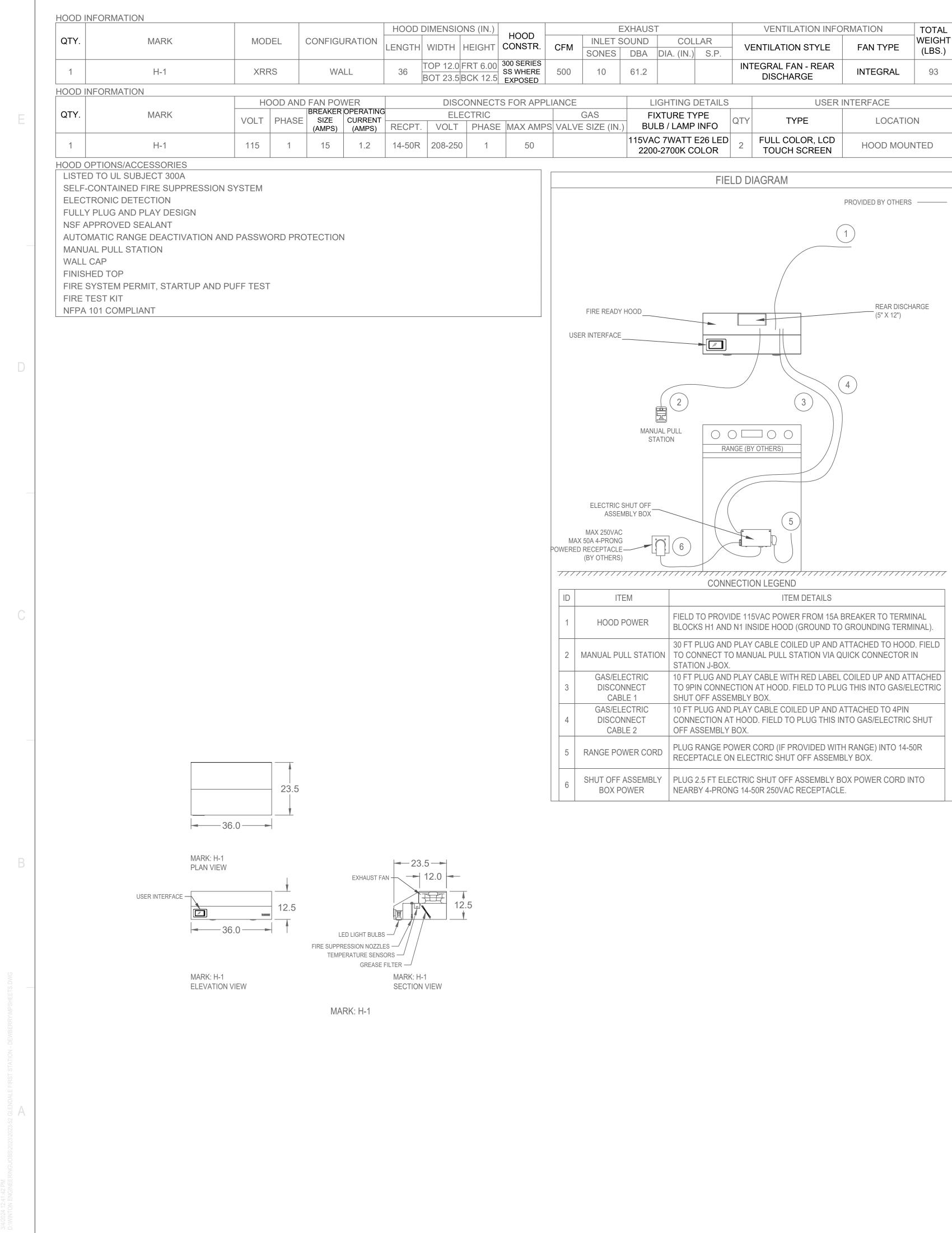


MECHANICAL NOTES

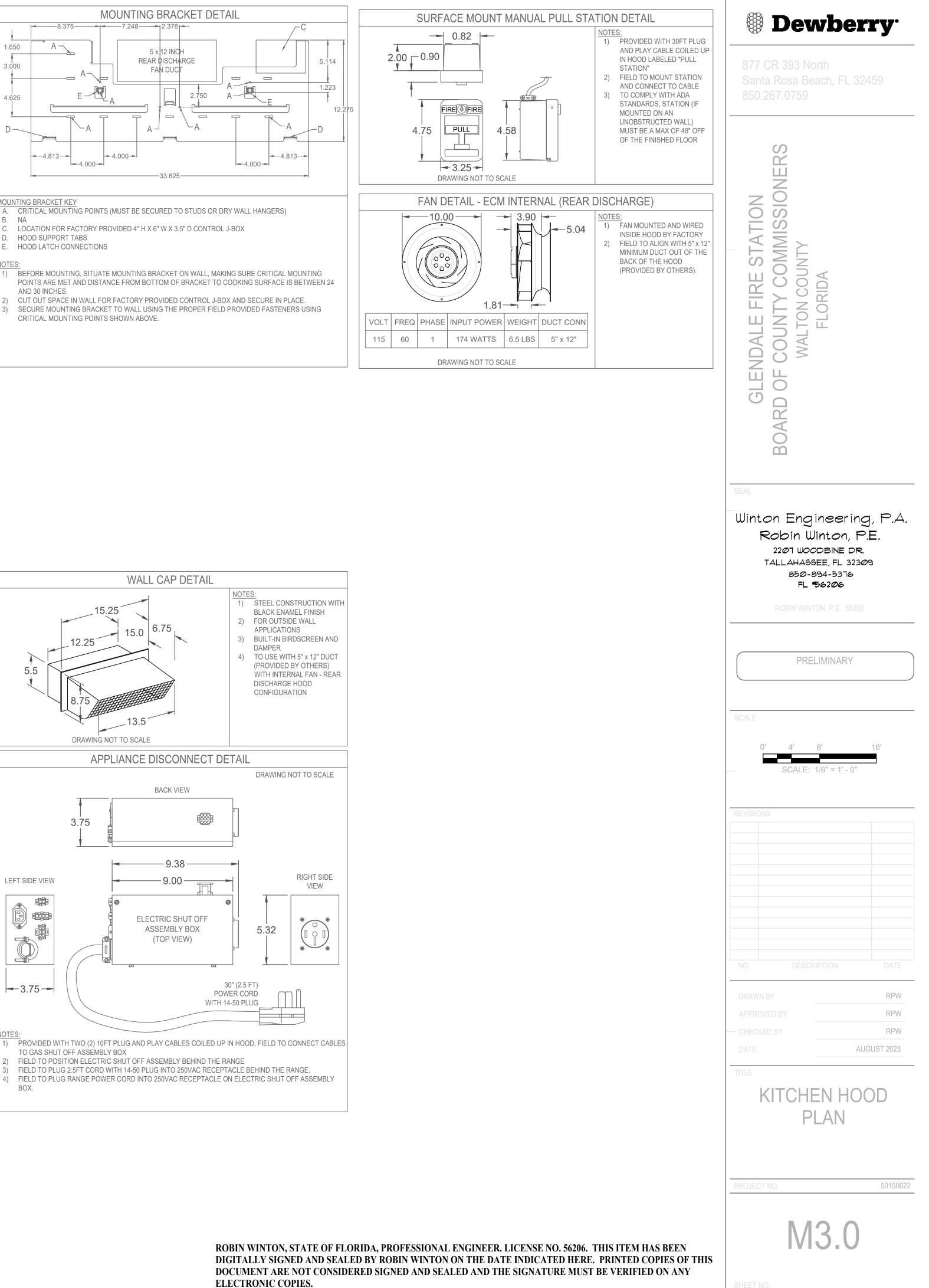
50150622

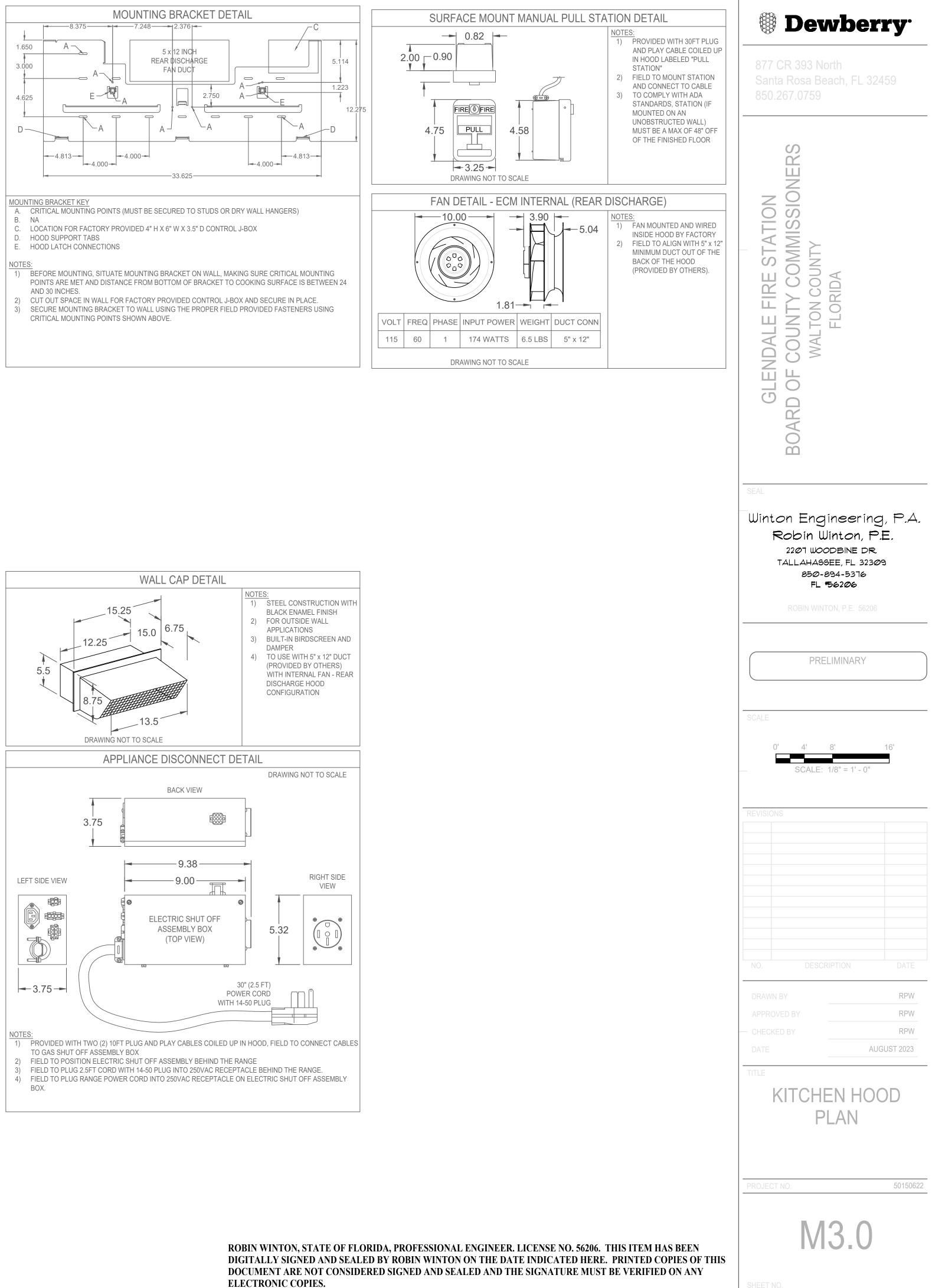
AUGUST 2023





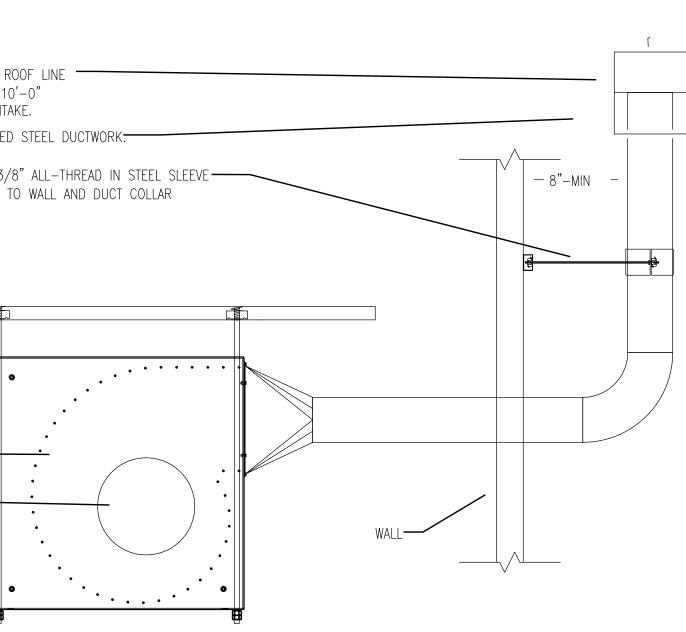
	BEOCKSTITAND NT INSIDE TICOD (GROUND TO GROUNDING TERMINAE).
PULL STATION	30 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO HOOD. FIELD TO CONNECT TO MANUAL PULL STATION VIA QUICK CONNECTOR IN STATION J-BOX.
ELECTRIC CONNECT ABLE 1	10 FT PLUG AND PLAY CABLE WITH RED LABEL COILED UP AND ATTACHED TO 9PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
ELECTRIC CONNECT ABLE 2	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 4PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
POWER CORD	PLUG RANGE POWER CORD (IF PROVIDED WITH RANGE) INTO 14-50R RECEPTACLE ON ELECTRIC SHUT OFF ASSEMBLY BOX.
FF ASSEMBLY	PLUG 2.5 FT ELECTRIC SHUT OFF ASSEMBLY BOX POWER CORD INTO NEARBY 4-PRONG 14-50R 250VAC RECEPTACLE.

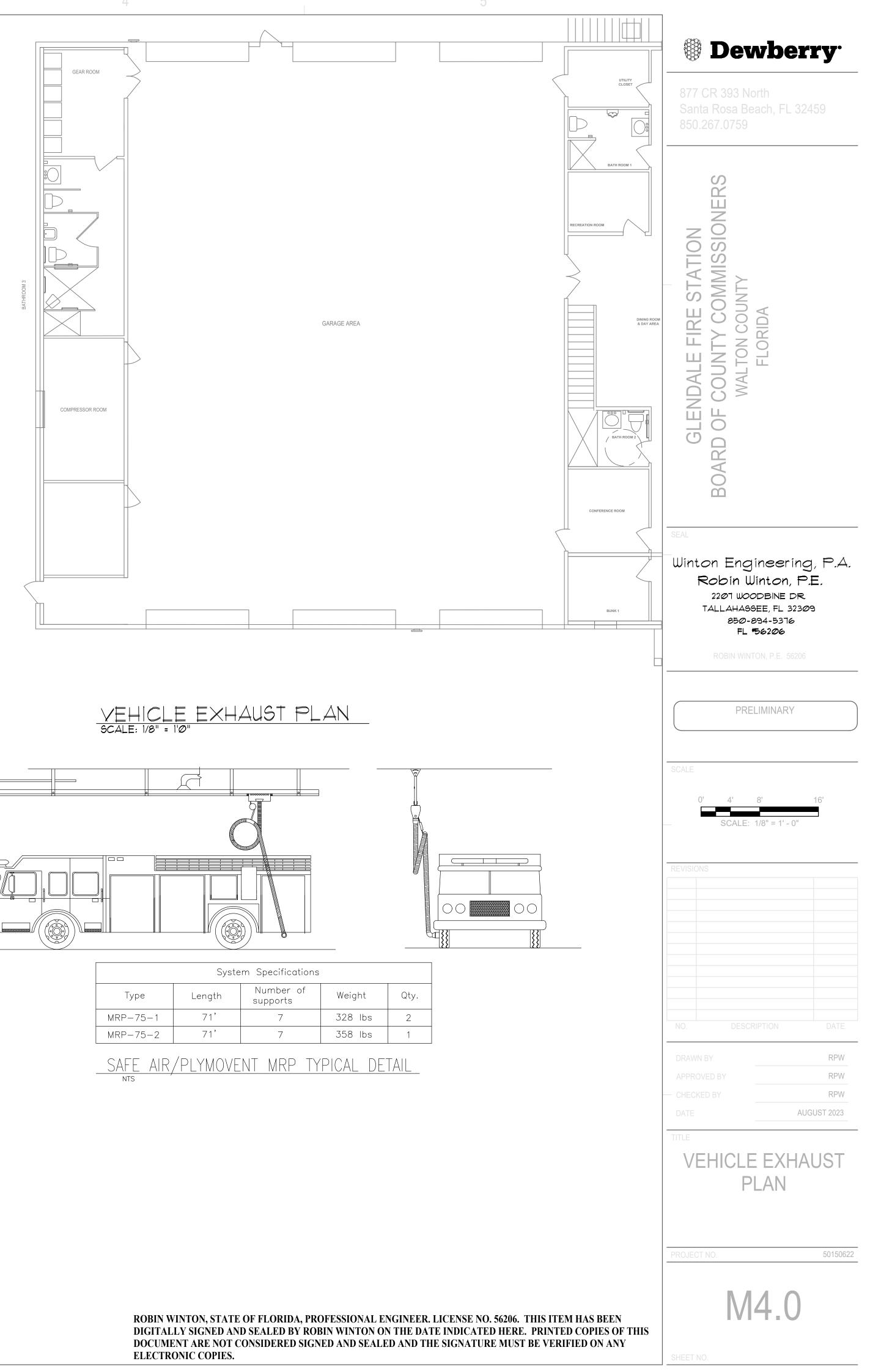


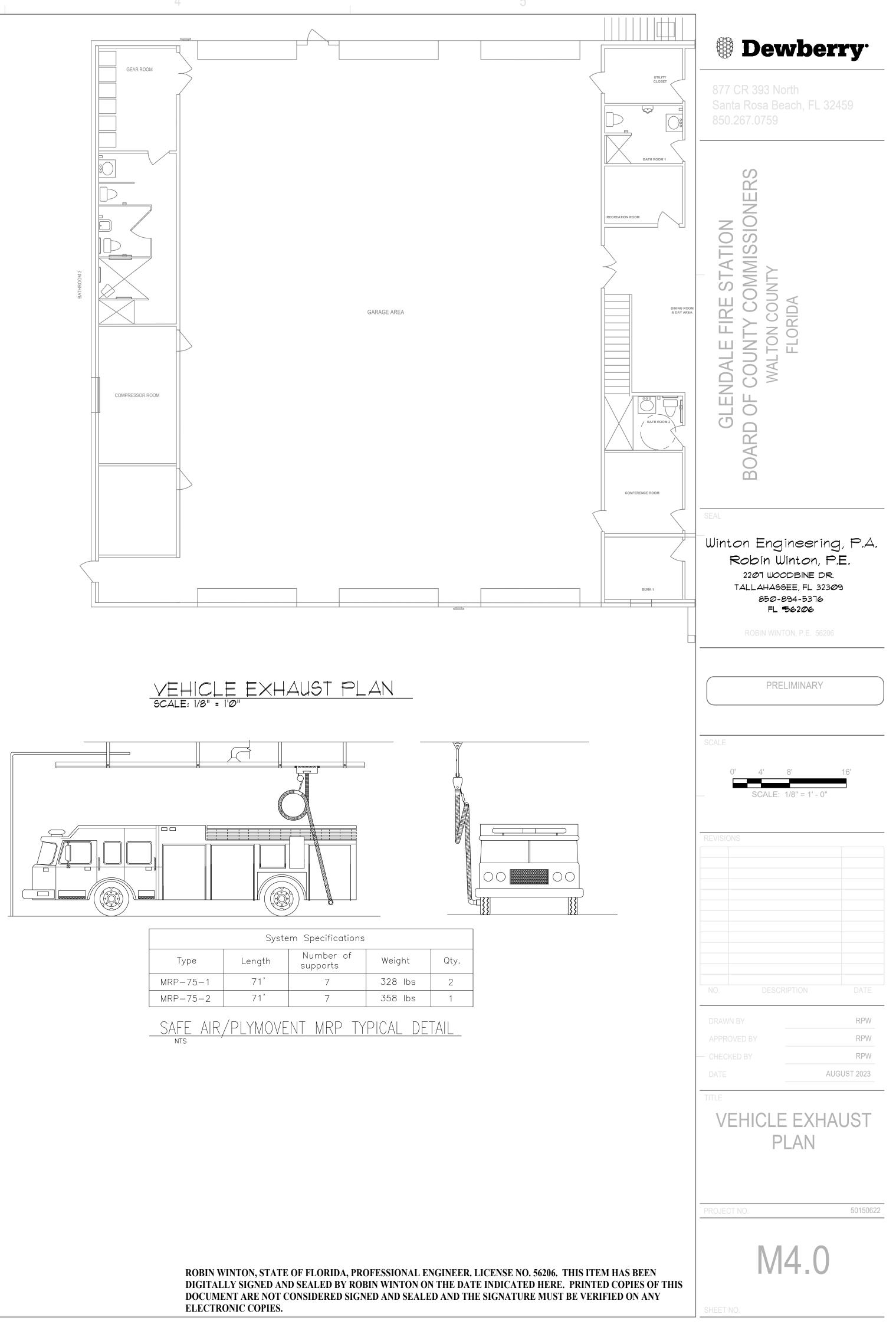


[					
	SAFE AIR CLAMPING DUCTWOR		QTY.	SAFE AIR/PLYMOVENT DIRECT C/	APTURE BLOWER S
	ICT SIZES JCT GAUGE	4–16" DIA. ROUND 18	1	HOSE DROPS	
JO	DINT TYPE	BEAD AND CLAMP		HANGING WEIGHT	1
	EEL TYPE	GALV. ROLLED	_	CFM SP wg	
	PE SEAM TYPE RANCH TYPE	LASER WELDED REDUCING/NON-REDUCING	-	MOTOR HP	
	RANCH ANGLE	30 DEGREE	-	RPM	
	JUSTMENT DAMPER	MANUAL W/LOCK SCREW		VOLTAGE PHASE	2
	JCT HANGER TYPE HAUST STACK TYPE	THREADED ROD W/ HJ HANGER EPA FREE FLOW JET CAP	_	HERTZ	
	JCT PENETRATION	WALL DISCHARGE/CORE DRILL	-	MOTOR FLA	17.5
	TM RATING	A527-G90		MOTOR TYPE	
	SAFE AIR/PLYMOVENT EXHAUST	EQUIPMENT SPECIFICATIONS	QTY.	MOTOR MFG. BLOWER HOUSING	
	ODEL	MRP-75-1/MRP-75-2	2/1	FAN INLET SIZE	
	DSE DROP SIZE	4-5" DIA.	_	FAN OUTLET SIZE	
	DSE TEMP. FETY DISCONNECT	850-1050 DEG. ADJUSTABLE 88 LBS/3-5" HS	_	FINISH COLOR	EPOXY
	AGNETIC GRABBER NOZZLE	MRP/VSRX/4-7" TAILPIPE		WHEEL STYLE	BACKV
	ILPIPE ADAPTOR PLATE	STAINLESS STEEL/CONTROLLED FLOW	/	WHEEL TYPE	A
	HAUST RAIL LENGTH	71' 328 LBS./358 LBS.	-	AMCA CLASS	
	ATERIAL	ALUMINUM	-	AMCA TESTED	
RA	IL TYPE	6063-T6		SAFE AIR BLOWER/FAN CO	
	IL OPEN AREA	28.3 SQ. IN./6 IN. ROUND	_	MODEL PATENT NUMBER	WD-4E-U US 10
	ALL THICKNESS G SUPPORTS	5/32"/4MM 7	-	CONTROL BOX TYPE	N
	IPPORT TYPE	ALUMINUM	-	BOX SIZE LxHxD	16
	PLICE TYPE	STEEL		MOTOR STARTER	
	PLICE FASTENERS	3/8"X1" HEX CAP GRADE 5	_	MOTOR OVERLOAD SC BLOWER AFTER RUN TIME	ALLEN 1-3
	IL SETBACK FROM DOOR	5' 13'	-	GE FAN AFTER RUN TIME	5-15
	IL LOCATION OFF VEHICLE	20-24"	-	ACD AFTER RUN TIME	10-20
				EMAIL DIALER DATA PORT	6 CHA C/
				WIFI DATA PORT	
				CELLULAR HOTSPOT	(
				MODBUS/BACNET COMPATIBLE	(
				EMAIL ADDRESSES SERVICE CALL BUTTON	
				DUCTWORK TEMP PROBE	YES,
				FILTER CHANGE ALARM	
				ELAPSED TIME TIMER	
				AFTER RUN TIME CONTROL SWITCH	
				CONTROL LIGHT	
				TAG OUT/LOCK OUT	
				UL RATED TOXIC GAS ALARM	YELLOW/R
				TOXIC GAS HORN	
				MULTIBLE FAN CONTROL	YES
				FIRE ALARM SHUTDOWN	
				REMOTE DIAL-IN AUTO START TRANSMITTER	VTK-2/U
	EXHAUST SYSTEM- This project is designed a	- <u>GENERAL NOTES</u>	& SF	PECIFICATIONS	
	CORPORATION. FOR DETAILS O THE FOLLOWING: CORPORATION- sales@safeair LUTZ-wlutz@safeairco.com-80 THE EQUIPMENT SPECIFICATION TO BE PROVIDED IN FULL WIT EXCEPTIONS. THE FINAL SHOP DRAWING MU VEHICLE LOCATIONS, NUMBER	SAFE AIR co.com-WAYNE 0-798-8820. IS LISTED IN DRAWINGS ARE H NO CHANGES OR ST SHOW THE DETAILS OF OF VEHICLES, DIRECTION OF		MAINTAIN E/A DISCH FROM ANY OUTSIDE	
5.	EXIT FROM STATION AND BE A ALL EXHAUST FANS AND BLOW STANDARDS FOR PERFORMANC BAY AREA OR BE NOA RATED ALL ELECTRICAL CONTROLS AN SHALL BE UL OR ETL LISTED.	VERS SHALL MEET AMCA TEST E AND BE MOUNTED IN THE FOR OUTSIDE INSTALLATION. ID WIRING COMPONENTS			/ (2) 3/8" ALL—THRE. ECURED TO WALL AND
б.	ALL ELECTRICAL (120-460V), DATA (CAT-5) IS THE SCOPE ELECTRICAL/CONTROLS CONTRA CONTRACTOR SHALL COORDINA OTHER TRADES WITH ANY UPD	OF WORK OF THE ACTOR. THE ELECTRICAL TE WITH SAFE AIR AND ALL ATES OR CHANGES TO	1-	NISTRUT	
	ELECTRICAL SUPPLY THAT MAY BLOWER/EXHAUST FANS/MOTO	rize damper power	FF	RAMING SYSTEM LOTTED CHANNEL.	•
7.	REQUIREMENT BY EMAIL TO AL ALL WIRING WILL BE RUN IN I				
. •	WATER-TIGHT FITTING. THE MIN	NMUM WIRE SIZE SHALL BE	,	" SPRING NUT.	
	#12 THHN MULTI-STRAND COF BASED ON NEC LOAD CHART I	FOR HORSE POWER FULL	F <i>A</i>	AN	
	LOAD AMPERAGE AND SIZED C #14 THHN MULTI-STRAND COP		١	MOTOR	
o	Voltage control wiring.			3/8" ALL-THREAD W/ NUTS	
ð.	ALL WIRING SHALL BE COLOR LABELED ON BOTH ENDS AND	CONTROL SYSTEMS LABELED		SUPPORT FROM UNISTRUT CHANNEL BOLT THRU FAN MOUNTING BRACKETS	
	WITH THE PANEL/BREAKER TH. CONTROLLER.	AT SUPPLIES THE		AND PROVIDE VIBRATION ISOLATION.	· · · · · · · · · · · · · · · · · · ·
				VERIFY ELEVATION IN FIELD.	
9.	ALL MECHANICAL INSTALLATION				444
	ALL MECHANICAL INSTALLATION EQUIPMENT AND DUCTWORK IS MECHANICAL CONTRACTOR OR	THE SCOPE OF WORK OF SAFE AIR AS NOTED.			ч
10	ALL MECHANICAL INSTALLATION EQUIPMENT AND DUCTWORK IS MECHANICAL CONTRACTOR OR 0. ALL TRADES MUST MEET FEDE FOR THE TRADE THAT YOU RE	THE SCOPE OF WORK OF SAFE AIR AS NOTED. RAL, STATE AND CITY CODES PRESENT.		PLYMO\ nts	<u>vent tev</u>
10	ALL MECHANICAL INSTALLATION EQUIPMENT AND DUCTWORK IS MECHANICAL CONTRACTOR OR D. ALL TRADES MUST MEET FEDE	THE SCOPE OF WORK OF SAFE AIR AS NOTED. RAL, STATE AND CITY CODES PRESENT. RE APPROXIMATE LOCATIONS			ч
10 11	ALL MECHANICAL INSTALLATION EQUIPMENT AND DUCTWORK IS MECHANICAL CONTRACTOR OR . ALL TRADES MUST MEET FEDE FOR THE TRADE THAT YOU RE . LOCATIONS ON DOCUMENTS AF OF TYPICALLY REQUIRED EQUIF IDENTIFY ALL SCHEDULED EQU	THE SCOPE OF WORK OF SAFE AIR AS NOTED. RAL, STATE AND CITY CODES PRESENT. RE APPROXIMATE LOCATIONS PMENT AND MAY NOT IPMENT FROM SAFE AIR.			ч
10 11	ALL MECHANICAL INSTALLATION EQUIPMENT AND DUCTWORK IS MECHANICAL CONTRACTOR OR . ALL TRADES MUST MEET FEDE FOR THE TRADE THAT YOU RE . LOCATIONS ON DOCUMENTS AF OF TYPICALLY REQUIRED EQUIF	THE SCOPE OF WORK OF SAFE AIR AS NOTED. RAL, STATE AND CITY CODES PRESENT. RE APPROXIMATE LOCATIONS PMENT AND MAY NOT IPMENT FROM SAFE AIR.			

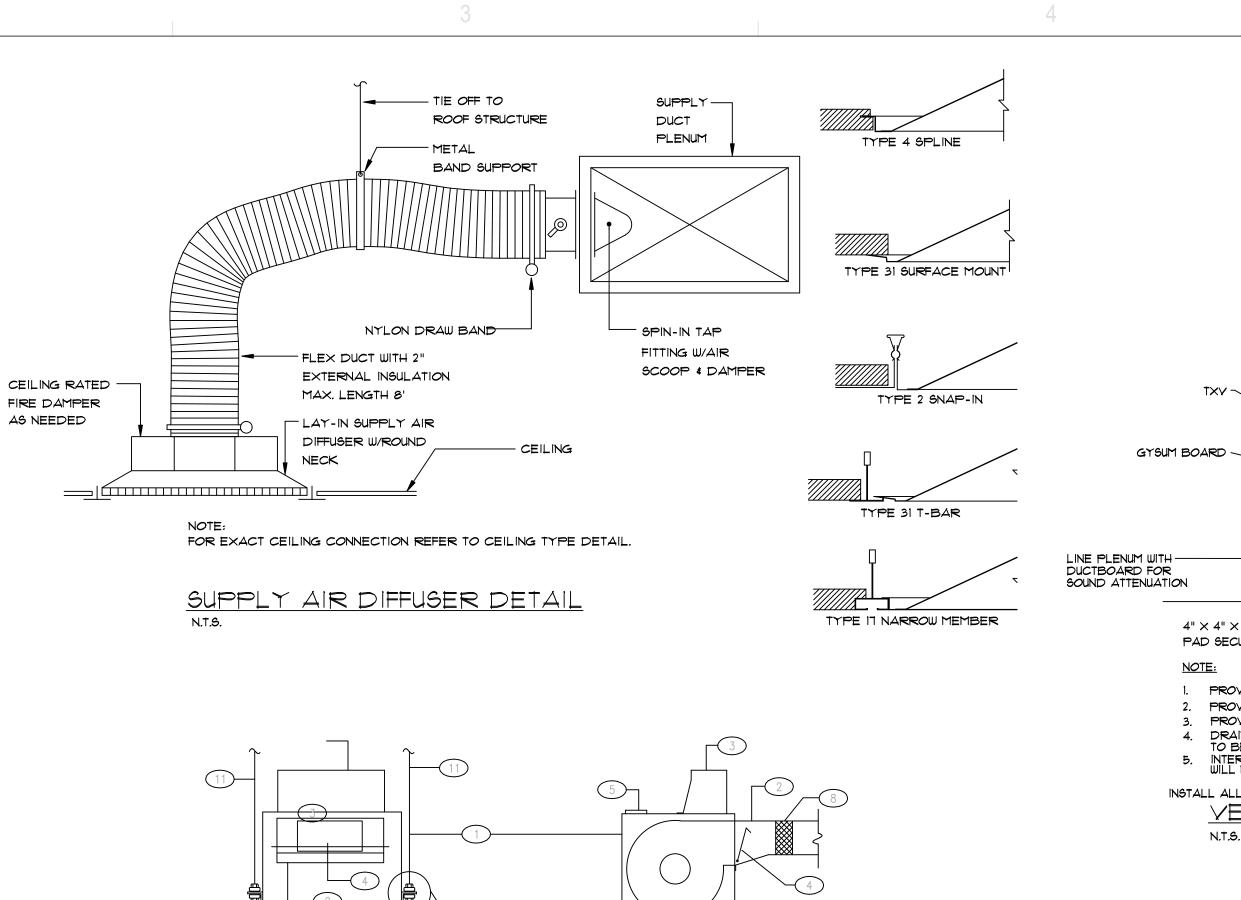
BLOWER SPECIFICATIONS	QTY.
TEV-559-3	1
4/5	_
175 LBS.	_
2250 7" wa	_
5	_
5 HP	_
3450	_
208-230 V	_
3 PH	_
60 Hz	_
17.5-15.2 AMP	-
TEFC	-
LESSON STEEL	-
	-
10"	_
12" EPOXY POWDER COAT	-
GRAY	_
BACKWARD INCLINE	-
ALUMINUM	_
B	-
YES	-
TL5	
LER SPECIFICATIONS	QTY.
WD-4E-UL CONTROL BOX	1
US 10,451,301 B2	_
NEMA 4 X	_
16"X18"X8"	_
ALLEN BRADLY-100	_
ALLEN BRADLY-AUTO	_
1-3 MIN. VARIABLE	_
5-15 MIN. VARIABLE	-
10–20 MIN. VARIABLE 6 CHANNEL OUTPUT	-
CAT 5-STD	_
OPTIONAL	-
OPTIONAL	_
OPTIONAL	-
UNLIMITED	-
YES	-
YES/0-2000 DEG.	-
YES	-
YES	-
1–3 MIN.	-
AUTO/MANUAL	-
GREEN	-
YES	-
YES	1
YELLOW/RED STROBE LIGHT	1
, 94 dBA	1
YES UP TO 10	1
YES	1
OPTIONAL	1
VTK-2/UNLIMITED TRUCKS	1

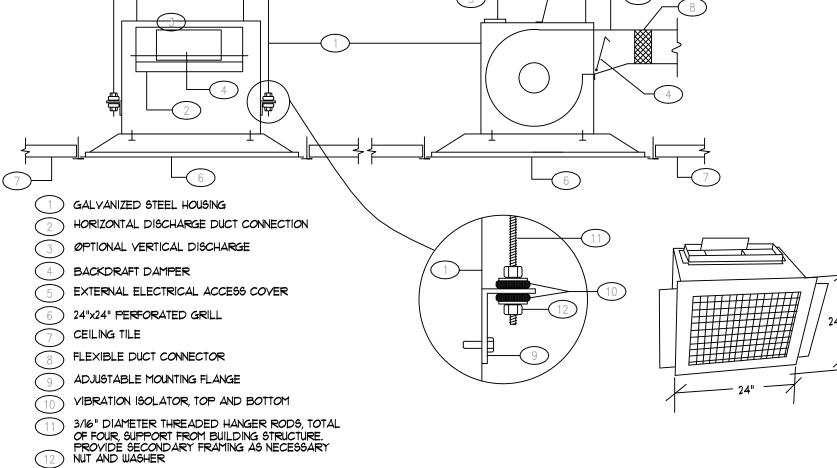




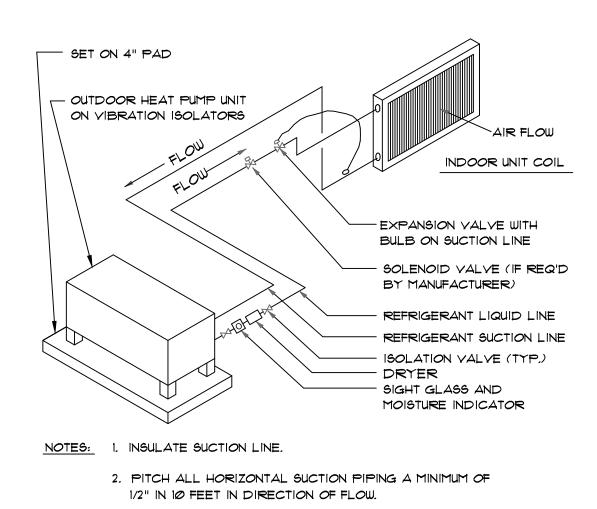


TEV FAN MOUNTING DETAIL





# CEILING EXHAUST FAN DETAIL

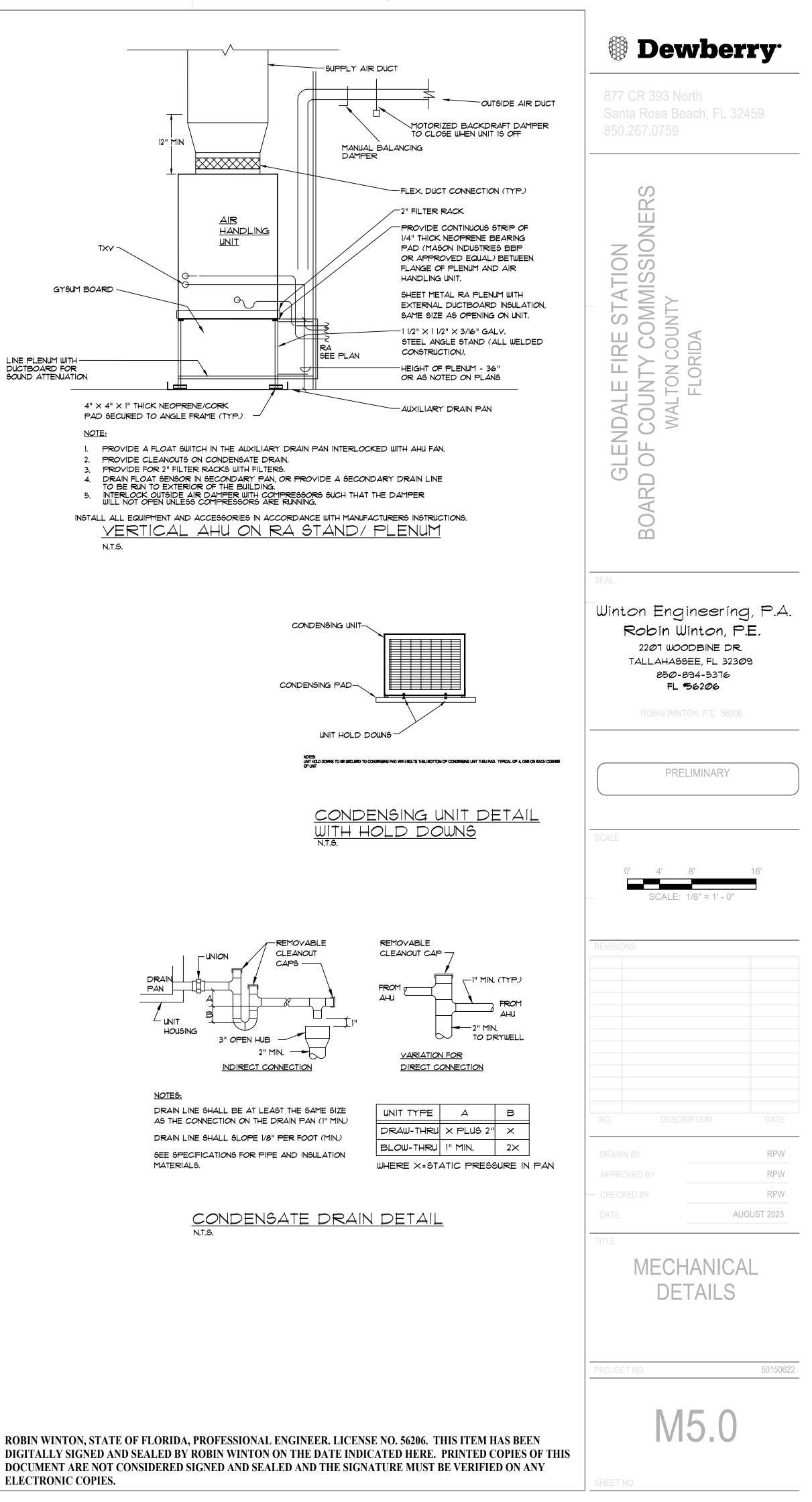


- 3. EQUIPMENT MANUFACTURER SHALL DETERMINE THE REFRIGERANT PIPE SIZES. PROVIDE SOLENOID VALVE, ACCUMULATOR AND OTHER REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
- 4. WHERE REFRIGERANT PIPING IS NOT SHOWN, ROUTE AS DIRECTLY AS POSSIBLE FROM OUTDOOR UNIT ABOVE GRADE THRU WALL OF MECHANICAL ROOM TO AHU.

REFRIGERANT PIPING SCHEMATIC-SPLIT SYSTEM HEAT PUMP N.T.S.

NOTE:

5.



PLUMBING	5 LEGEND
SYMBOL	
G	ELBOW DOWN
0	ELBOW UP
-0	TEE UP
<del></del>	TEE DOWN
	CHANGE IN PIPE SIZE
	SANITARY PIPE
	DOMESTIC COLD WATER
— HW — HW —	HOT WATER
	VENT PIPING:

PLUMBING NOTES: 1.1 DESCRIPTION:

B. INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR COMPLETE AND OPERATING PLUMBING SYSTEMS. DUE TO THE SMALL SCALE OF THE FLOOR PLANS AND DIAGRAMMATIC RISER DIAGRAMS, SOME ITEMS INVOLVED MAY NOT BE INCLUDED.

1.2 WORK INCLUDED:

A. WORK WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING SYSTEMS REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC. COMPLETE WITH ALL REQUIRED ACCESSORIES:

3. PLUMBING FIXTURES, EQUIPMENT, ACCESSORIES, TRIM AS SPECIFIED HEREIN.

FIXTURE REQUIRING SUCH SERVICE. EXTENT HEREIN SPECIFIED. 1.3 LAWS AND CODES:

A. THE CONTRACTOR SHALL INSTALL ALL WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND BE INCLUSIVE OF ALL STATE, AND LOCAL CODES. ALL PROVISIONS OF THIS SECTION APPLY TO ALL PLUMBING WORK.

C. THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS REQUIRED BY LOCAL AUTHORITIES, LEGAL REGULATIONS AND RETURN TO THE ENGINEER ANY CERTIFICATE OF APPROVAL ISSUED FOR ALL PLUMBING WORK SIGNED BY THE INSPECTING ADMINISTRATIVE AUTHORITY IN CHARGE OF EACH PARTICULAR PART OF THE WORK.

1.4 QUALIFICATIONS:

STATE. 1.5 DRAWINGS:

A. IN THE INTEREST OF CLEARNESS, THE WORK IS NOT ALWAYS SHOWN TO SCALE OR EXACT LOCATION. CHECK ALL MEASUREMENTS, LOCATION OF PIPE, DUCTS AND EQUIPMENT WITH THE DETAIL ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS, AND LAY OUT WORK SO AS TO FIT IN WITH CEILING GRIDS, LIGHTING AND OTHER PARTS. WHERE DOUBT ARISES AS TO THE MEANING OF THE PLANS AND SPECIFICATIONS, OBTAIN THE ENGINEER'S DECISION BEFORE PROCEEDING WITH PARTS AFFECTED OTHERWISE ASSUME LIABILITY FOR DAMAGE TO OTHER WORK AND FOR MAKING NECESSARY CORRECTIONS TO WORK IN QUESTION.

16 CHANGES AND CONFLICTS:

DETAILED.

1.7 GUARANTEE AND SERVICE:

A. THE CONTRACTOR SHALL GUARANTEE ALL PIPING, EQUIPMENT, FIXTURES AND RELATED MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS. SUCH DEFECTS WILL BE CORRECTED PROMPTLY AFTER NOTIFICATIONS BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE WITH NO COST TO THE OWNER.

LINE.

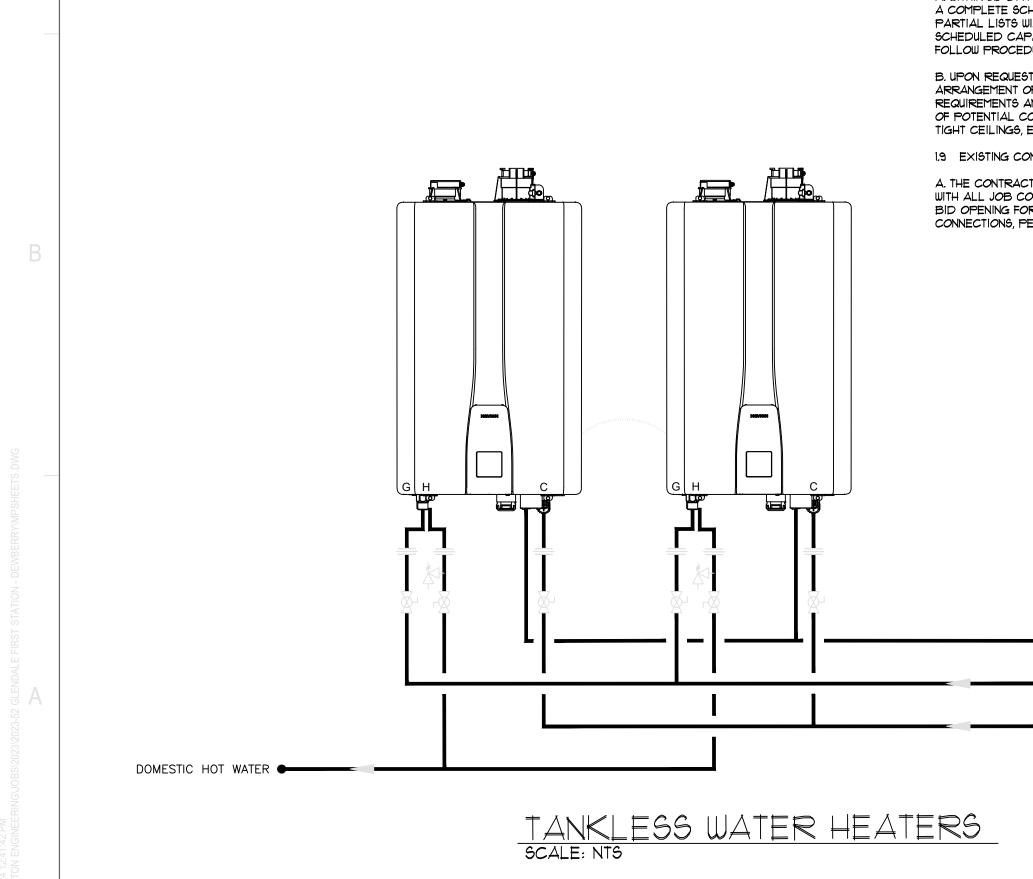
MAINTENANCE.

1.8 SUBMITTAL DATA:

B. UPON REQUEST, SUBMIT SHOP DRAWINGS SHOWING PROPOSED ARRANGEMENT OF EQUIPMENT, PIPING, FLOOR DRAING, POWER REQUIREMENTS AND CONTROLS. IN ANY CASE, SUBMIT DETAIL LAYOUTS OF POTENTIAL CONFLICTS AT PLUMBING DROPS, EQUIPMENT ROOMS, TIGHT CEILINGS, ETC.

1.9 EXISTING CONDITIONS:

CONNECTIONS, PERMITS, FEES, ETC.



### A. THE NON-TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS OF THESE SPECIFICATIONS ARE APPLICABLE IN FULL HERETO.

### I. A SYSTEM OF SANITARY SOIL, WASTE AND VENT PIPING. 2. A SYSTEM OF DOMESTIC HOT AND COLD WATER PIPING.

4. WATER SERVICE TO EACH FIXTURE REQUIRING SUCH SERVICE. 5. SANITARY BUILDING DRAINS AND FIXTURE BRANCHES FROM EACH A. OMIT 6. PIPING INCIDENTAL TO HEATING AND AIR CONDITIONING WORK TO THE

### B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND CHARGES REQUIRED INCIDENTAL TO THE WORK INVOLVED THAT MAY BE NECESSARY FOR FULLY COMPLETING THE WORK.

# A. THE CONTRACTOR SHALL BE A LICENSED PLUMBER CERTIFIED BY THE

A. IF DURING CONSTRUCTION DESIRABLE OR NECESSARY CHANGES BECOME APPARENT, ADVISE THE ENGINEER AND SECURE HIS DECISION IN WRITING. OTHERWISE, MAKE NO DEVIATION FROM THE SYSTEM AS

### B. THE CONTRACTOR SHALL ALSO FURNISH WITHOUT CHARGE, ANY REAGONABLE SERVICE IN MAKING MINOR ADJUSTMENTS TO FIXTURES AND EQUIPMENT FOR THE SAME PERIOD, BUT THIS SERVICE WILL NOT INCLUDE THE REPLACEMENT OF PARTS DAMAGED BY MALICIOUSNESS OR VANDALISM AFTER ACCEPTANCE BY THE OWNER, OR CLEARING OF OBSTRUCTION FROM SEWERS CAUSED BY OTHER THAN DEFECTS IN THE

C. THE CONTRACTOR SHALL PUT ALL ITEMS INSTALLED UNDER THIS DIVISION INTO OPERATION AND WILL INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN ALL POINTS REQUIRING SERVICE AND

### A. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT PROPOSED. PARTIAL LISTS WILL NOT BE CONSIDERED, INCLUDE CATALOG DATA. SCHEDULED CAPACITIES, ETC., WHERE SUBSTITUTIONS ARE PROPOSED. FOLLOW PROCEDURES SET FORTH IN THE GENERAL CONDITIONS.

### A. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME ACQUAINTED WITH ALL JOB CONDITIONS. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY

B. THE DRAWINGS INDICATE SYSTEMS WHICH ARE LOCATED IN EXISTING PARTITIONS AND BEHIND WALLS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL PIPING CONNECTIONS AND INCLUDE IN HIS BID CONTINGENCIES FOR THE RELOCATION OF SUCH SYSTEMS IF CONNECTIONS CAN NOT BE MADE AS SHOWN ON THE DRAWINGS.

C. THE CONTRACTOR IS REQUIRED TO CONNECT TO EXISTING PLUMBING SYSTEMS FOR THE CONSTRUCTION OF THIS PROJECT AND IS REQUIRED TO KEEP DISRUPTION OF THE EXISTING SYSTEMS TO A MINIMUM. SCHEDULE CONNECTION TO EXISTING SYSTEMS IN ADVANCE AND ADVISE THE OWNER TO THE LENGTH OF TIME SUCH SYSTEMS WILL NOT BE IN OPERATION. THE CONTRACTOR SHALL MAKE CONNECTIONS AFTER HOURS OR ON WEEKENDS IF REQUESTED BY THE OWNER. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING

# 1.10 PHASING:

A. INTERRUPT EXISTING SERVICES ONLY AT TIMES APPROVED BY THE OWNER. HOLD INTERRUPTIONS TO THE MINIMUM IN DURATION AND FREQUENCY.

## 1.11 AS-BUILT DRAWINGS:

1.12 MANUALS:

A. FURNISH FIVE (5) COPIES OF MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS AND PARTS LISTS FOR ALL FIXTURES AND EQUIPMENT BOUND INTO FIVE (5) MANUALS, LOOSE SHEETS WILL NOT BE ACCEPTED ONE MANUAL WILL BE SUBMITTED TO THE ENGINEER COMPLETE, PRIOR TO FINAL INSPECTION AND FINAL PAYMENT. THE REMAINING FOUR (4) MANUALS WILL BE SUBMITTED TO THE ENGINEER.

### 1.13 COORDINATION OF WORK WITH OTHER TRADES:

A. THE CONTRACTOR SHALL LAYOUT AND PROCEED WITH THIS WORK SO THAT THIS WORK WILL BE EXECUTED IN HARMONY WITH ALL OTHER CONTRACTS PERTAINING TO THIS PROJECT.

B. ALL ELECTRICAL POWER WIRING REQUIRED FOR INSTALLATION OF EQUIPMENT UNDER THIS SECTION IS SPECIFIED UNDER ELECTRICAL DIVISION. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROLS, AND CONTROL WIRING AS SPECIFIED OR REQUIRED TO PROPERLY COMPLETE THE INSTALLATION. CONTROL CONDUIT IS SPECIFIED UNDER ELECTRICAL DIVISION TO THE EXTENT SHOWN ON ELECTRICAL DRAWINGS ALL OTHER CONTROL CONDUIT SHALL BE PROVIDED UNDER THIS SECTION OF WORK. ALL ELECTRICAL WORK PERFORMED UNDER THIS SECTION SHALL MEET REQUIREMENTS SET FORTH IN THE ELECTRICAL DIVISION.

C. PIPE SLEEVES - FIT ALL PIPES PASSING THROUGH MASONRY AND JOB CAST CONCRETE CONSTRUCTION WITH SLEEVES. SLEEVES SHALL BE CUT FLUGH WITH EACH SURFACE, 1/2" LARGER IN DIAMETER THAN THE PASSING PIPE OR COVER, BUILT-IN AS WORK PROGRESSES. SLEEVES THROUGH JOISTS AND BEAMS SHALL BE OF GALVANIZED STEEL PIPE OTHER SLEEVES SHALL BE OF 16 GAUGE GALVANIZED IRON. MAKE SPACE BETWEEN FLOOR SLEEVES AND PASSING PIPES WATERTIGHT BY CAULKING WITH FIREPROOF PACKING AND PLASTIC WATERPROOF CAULKING COMPOUND.

### D. ACCESS PANELS AND DOORS:

I. FURNISH TO GENERAL CONTRACTOR FOR INSTALLATION WHEREVER REQUIRED FOR ACCESS TO VALVES, AIR VENTS OR SIMILAR DEVICES. DOORS SHALL BE SUITABLE FOR WALL FINISH INVOLVED, 12" × 16" UNLESS OTHERWISE INDICATED, FIRE RATED WHERE FIRE WALLS ARE PENETRATED, MILCOR, PHILIP CAREY, ZURN OR OTHER APPROVED

FOLLA 2. WHERE DEVICE OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL, IDENTIFY THE PANEL WITH A 3/4" \*8 ROUND HEAD SELF-THREADING SCREW, SCREWED INTO PANEL WITH ONLY THE HEAD

SHOWING. BEFORE INSERTING, PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.

### E. CUTTING AND PATCHING:

I. OPENINGS ARE TO BE LAID OUT AND BUILT-IN FURNISH DETAILED LAYOUT DRAWINGS TO OTHER TRADES IN ADVANCE OF THEIR WORK. PIPING WITHIN OR BEHIND WALLS MUST BE INSTALLED BEFORE WALL IS ERECTED. OTHERWISE WALLS, ETC., AFFECTED MUST BE REWORKED BY TRADE WHICH ERECTED SAME AT EXPENSE OF THE CONTRACTOR CHASING AND CUTTING OF NEW WORK WILL NOT BE ACCEPTED. 2. CUTOUTS IN COUNTERTOPS SHALL BE MADE BY MILLWORK CONTRACTOR UPON RECEIPT OF PROPER TEMPLATES. OPENINGS IN EXISTING WALLS SHALL BE MADE BY TRADE REQUIRING SAME, WITH REPAIRING AND PATCHING REQUIRED THEREBY DONE BY THE RESPECTIVE TRADE WHOSE WORK IS DAMAGED.

### F. PAINTING AND FINISHING:

I. CLEAN AND PAINT WITH TWO COATS OF ENAMEL ALL EXPOSED FERROUS METAL PARTS OF MECHANICAL EQUIPMENT LOCATED IN MACHINERY ROOMS, ABOVE CEILINGS. ETC. (INCLUDE BLACK STEEL PIPE, UNCOATED CAST IRON PIPE, HANGERS, BRACKETS, ETC.). 2. PAINTING OF SURFACES IN FINISHED AREAS IS SPECIFIED UNDER SECTION "PAINTING". WHERE FACTORY FINISHED ITEMS ARE MARRED OR SCRATCHED, REPLACE THE ITEM, OR UPON APPROVAL, REFINISH OR TOUCHUP AS REQUIRED TO BRING TO A LIKE-NEW CONDITION.

G. CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS:

I. THE PLUMBING CONTRACTOR SHALL PROVIDE FLOOR DRAINS REQUIRED FOR THIS EQUIPMENT AS SCHEDULED ON THE DRAWINGS. 2. ALL REQUIRED WATER SUPPLY LINES WILL BE EXTENDED TO WITHIN 2'-O" OF EQUIPMENT LOCATIONS AND TERMINATED WITH A GATE VALVE. FINAL CONNECTIONS TO EQUIPMENT WILL BE MADE BY THE PLUMBING CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR AND OUNER.

1.14 MISCELLANEOUS REQUIREMENTS:

A. MATERIALS AND EQUIPMENT - NEW AND OF BEST QUALITY IN EVERY RESPECT. PIF FITTINGS SHALL CONFORM TO THE ASTM STANDARD DESIGNATED FOR PIPE OF EACH 1 EQUIPMENT SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER APPROVED WHERE COMMERCIALLY AVAILABLE. WHERE TWO OR MORE UNITS OF THE S CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER HOWEVER, THE COMPONENT PARTS OF EACH UNIT NEED NOT BE.

B. WORKMANSHIP - FIRST CLASS AND IN ACCORDANCE WITH BEST PRACTICE, PIPE SH CUT CLEAN, PROPERLY REAMED, THREADED OR SOLDERED, ERECTED PLUMB AND SI MAKE CHANGES IN PIPE SIZE WITH REDUCING FITTINGS WITHOUT THE USE OF BUSHINGS. SHALL BE EXECUTED BY EXPERIENCED MECHANICS AND SHALL PRESENT A NEAT APPEARANCE, INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMME

C. AT ALL STAGES OF INSTALLATION, PROTECT PIPE OPENINGS, FIXTURES AND EQUIPM AGAINST THE ENTRANCE OF FOREIGN MATERIALS, AND FROM DAMAGE BY THE ELEMEN MORTAR, PAINT, ETC.

D. FACTORY FINISHES - MANUFACTURER'S STANDARD UNLESS OTHERWISE STATED. SUBM CARDS FOR SELECTION WHERE CHOICE EXISTS.

E. EXPANSION - PROVIDE FOR EXPANSION AND CONTRACTION OF ALL PIPING AND M, PROPER PROVISIONS SO THAT EXCESSIVE STRAIN WILL NOT OCCUR ON PIPING OR OT PARTS.

F. SAFETY PROVISIONS - PROVIDE COVERS OR GUARDS ON ALL HOT, MOVING AND PR ITEMS WHICH COULD BE A HAZARD TO OCCUPANTS OF THE BUILDING OR TO SERVICE PERSONNEL.

G. CLEANING AND ADJUSTING - UPON COMPLETION OF WORK, CLEAR ALL DRAING, TRA FIXTURES, DUCTS AND PIPE. ADJUST ALL VALVES, PACK STUFFING BOXES, REMOVE RUB LEAVE WORK IN CLEAN AND OPERATING CONDITION.

H. ESCUTCHEONS - WHERE PIPES PASS THROUGH FLOORS, WALLS AND CEILINGS, PROV PRESSED CHROME-PLATED BRASS OR STEEL PLATES SECURELY FASTENED IN PLACE PART 3- EXECUTION

### 3.1 SANITARY PIPING:

TESTS.

A. SCOPE - PROVIDE A SYSTEM OF SOIL, WASTE AND VENT PIPING CONNECTING ALL F FIXTURES, EQUIPMENT, ETC., TO THE BUILDING DRAIN SYSTEM, WITH CONSOLIDATED VEN CONNECTIONS EXTENDING THROUGH THE BUILDING ROOF, ALL AS SHOWN ON THE DRAW

### B. FREEZE PROTECT ALL EXPOSED SANITARY PIPING.

C. LAYING OUT WORK - VENTS FROM ANY FIXTURE, WHEN CONNECTED TO VENT LINE SE OTHER FIXTURES, SHALL BE EXECUTED AT LEAST SIX (6) INCHES ABOVE FLOOD LEVE HIGHEST OF SUCH FIXTURES TO PREVENT USE OF VENT LINES AS A WASTE. MAKE CHANK DIRECTION BY APPROPRIATE USE OF 45 DEGREE YS, 1/2" YS, OR LONG SWEEP 1/4, 1/6, BENDS, SANITARY TS OR SHORT 1/4 BENDS MAY BE USED ON VERTICAL STACKS OR I LINES WHERE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL EXC LONG-TURN TY'S SHALL BE USED WHEN TWO FIXTURES ARE INSTALLED BACK TO BACK COMMON DRAIN. STRAIGHT TS, ELLS AND CROSSES MAY BE USED ON VENT LINES. MAK CHANGE IN DIRECTION OF FLOW GREATER THAN 90 DEGREES. WHERE DIFFERENT SIZES DRAINAGE PIPES OR FITTINGS ARE CONNECTED, USE STANDARD INCREASERS AND RE OF PROPER SIZE. DO NOT REDUCE SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW. AND TAPPING OF HOUSE DRAINS, SOIL, WASTE OR VENT PIPES, AND USE OF SADDLE H BANDS ARE PROHIBITED.

D. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AN GRADING OF ENTIRE SYSTEM CAN BE DETERMINED.

E. HANGERS - SUPPORT PIPE ADJACENT TO EACH FITTING AND ON CENTERS NOT EXCE FIVE FEET WITH HANGERS AS SPECIFIED HEREINAFTER. RIGIDLY SUPPORT BASE OF VER RUNS WITH SOLID MASONRY OR CONCRETE.

F. IN ADDITION, PROVIDE ADEQUATE SWAY BRACING TO STABILIZE ALL COMPONENTS SYSTEM. PROVIDE SPECIAL SUPPORT FOR FIXTURE ARMS, CLOSET BENDS, ETC.

G. GRADING - UNIFORM AND NOT LESS THAN 1/8" PER FOOT FOR PIPE 4" AND OVER, A LESS THAN 1/4" PER FOOT FOR 2" AND 3" PIPING.

H. WASTE ARMS - PVC DWV OR IPS BRASS PIPE TYPICAL IPS BRASS PIPE AT URINAL I. TEST FITTINGS - NOT SHOWN ON THE DRAWINGS: PROVIDE WHERE REQUIRED FOR PAR

J. PIPING TO BE CAST IRON OR PVC - DWV IN ACCORDANCE WITH FPC 2020 1TH EDIT 3.3 WATER PIPING:

A. SCOPE - CONNECT TO UTILITIES AS SHOWN ON THE DRAWINGS AND COORDINATE WIT OWNER.

B. GENERAL WORKMANSHIP - CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT WORK INTO PLACE WITHOUT SPRINGING OR FORCING, PROPERLY CLEARING ALL OPEN FINISHED CEILINGS, ETC. ROUTE THROUGH PREVIOUSLY BUILT-IN SLEEVES AND AVOID EXCESSIVE CUTTING OR OTHER WEAKENING OF THE STRUCTURE. REAM ALL PIPE TO REI BURRS. MAKE CHANGES IN DIRECTION AND SIZE WITH FITTINGS. CAP OR PLUG OPEN PIF DURING INSTALLATION TO KEEP OUT FOREIGN MATERIAL. MAKE CONNECTIONS CAREFUL INSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS AND TO PERMIT COMPLETE DRA THE SYSTEMS. FREEZE PROTECT ALL EXPOSED WATER PIPING.

C. GRADING - GRADE PIPE UPWARD FROM SOURCE TO FACILITATE DRAINAGE AND AIR WHERE LOW POINTS ARE REQUIRED BECAUSE OF LONG RUNS OR WHERE SECTIONS MAY VALVED OFF, PROVIDE WITH 3/4" GLOBE VALVE AND HOSE NIPPLE FOR DRAINAGE AT POINT. MAKE ALL CONNECTIONS TO RISERS AND FIXTURES FROM TOP OF MAINS.

D. NIPPLES - OF SAME MATERIAL AS PIPE IN WHICH THEY ARE INSTALLED PROVIDE EX STRONG WHEN UNTHREADED PORTION IS LESS THAN 1" LONG.

E. PIPING TO BE COPPER OR CPVC.

3.4 WATER PIPING SPECIALTIES:

A. UNIONS - 150 LB. RATED CAST BRASS GROUND-JOINT TYPE IN COPPER PIPE, GALVANIZED MALLEABLE IRON IN WROUGHT IRON OR GALVANIZED PIPE.

B. PROVIDE IN ALL SIZES OR THREADED PIPE. AND IN SWEAT JOINTED PIPE OVER I", SO AS TO FACILITATE EASY REPAIRS. IN SUCH LINES INSTALL ADJACENT TO WATER HEATERS, PUMPS, TANKS, ETC., INTO WHICH PIPING IS TERMINATED AND ON AT LEAST ONE SIDE OF VALVES, COCKS. STRAINERS, ETC., AND OTHER DEVICES WHICH OCCUR IN PIPING RUNS.

CONDENSATE

DOMESTIC COLD WATER

	C. PROVIDE DIELECTRIC UNIONS BETWEEN FERROUS AND NON-FERROUS PIPING (INCLUDING PIPING AND WATER HEATER STUBS WHERE DIFFERENT).	<b>Dewberry</b>
PE AND MATERIAL. R AND UL BAME E	D. VALVES – PROVIDE WHERE SHOWN AND/OR SPECIFIED, INCLUDING ALL FIXTURES OR EQUIPMENT NOT FURNISHED WITH STOPS. ALL VALVES OF EACH TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER, STOCKHAM UNITS AS INDICATED BELOW, OR EQUALS BY CRANE OR WALWORTH. ALL VALVES SHALL BE RATED 200 LB. WWP.	877 CR 393 North Santa Rosa Beach, FL 32459
IALL BE	E. BALL VALVES 2" AND SMALLER - 5-20T BR CAST BRONZE FOR THREADED PIPE.	850.267.0759
ECURE. WORK	F. SHOCK ABSORBERS - CERTIFIED BY PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201. PROVIDE WHERE INDICATED.	
NDATIONS.	G. WALL HYDRANTS (TYPICAL) - SEE FIXTURE SCHEDULE. FURNISH VACUUM BREAKER ON EACH HYDRANT.	
1ENT NTS, MIT COLOR	H. YARD HYDRANTS (TYPICAL) – NON-FREEZE 3/4" CHROMIUM PLATED BRONZE HOSE BIBB WITH LOOSE KEY, WADE W-8620 WITH INTEGRAL BACKFLOW PREVENTER OR APPROVED EQUAL. FURNISH VACUUM BREAKER ON EACH HYDRANT. INSTALL FLUSH WITH FINISH GRADE. SEE DRAWINGS FOR LOCATION.	ERS
4KE	I. PRESSURE REDUCING VALVES - WATTS/MUESCO SERIES I 15 AS SIZED ON DRAWING, FURNISH WITH WATTS NO. 115 OR 11F "Y" TYPE STRAINER, CRANE OR STOCKHAM.	
HER Rojecting	J. THERMOMETERS - "ANY ANGLE" TYPE WITH 9 INCH SCALE AND SUITABLE TEMPERATURE RANGE, AS MANUFACTURED BY TRERICE TYPE BX. THERMOMETERS SHALL BE MERCURY ACTUATED WITH PHENOL CONDENSATE WITH ALUMINUM OR BRASS CASES AND 6" SOCKET WITH EXTENSION NECK. LOCATE SO AS TO BE CONVENIENT FOR READING. EQUAL PRODUCT BY WESKLER, MARSH OR MAXWELL MOORE WILL BE ACCEPTED.	AMISS MMISS
NPS, BBISH AND MDE	K. PRESSURE GAGES - BOURDON TUBE TYPE, AS MANUFACTURED BY TRERICE NO. 600 COMPLETE WITH CAST ALUMINUM CASE, NO. 872 VIBRATION OR PULSATION SNUBBER AND NO. 735 NEEDLE VALVE. GAGE DIALS SHALL BE NOT LESS THAN 4-1/2" AND CASES SHALL BE OF ALUMINUM ALLOY. FURNISH WITH SUITABLE PRESSURE RANGES FOR EACH APPLICATION. EQUAL PRODUCTS BY WESKIER, MARSH OR ASHCROFT WILL BE ACCEPTED.	Y CON I COUN
E.	AN 1/8" L. VACUUM BREAKER - WATTS NO. 36A , CRANE OR STOCKHAM.	
	M. HOT WATER PIPING TO INSULATED PER FLORIDA PLUMBING CODE.	
PLUMBING	3.5 PIPE HANGERS AND SUPPORTS: PER FT FO	
NT UING:S.	A. SPACING - INSTALL SUPPORTS AS REQUIRED TO PREVENT SAGS, BENDS OR VIBRATION IN ANY CASE PROVIDE WITHIN SIX INCHES OF ELBOWS AND VALVES, AT ENDS OF BRANCHES OVER FIVE FEET, AND ON CENTERS NOT EXCEEDING THE FOLLOWING:	
RVING EL RIM OF GES IN , 1/8 OR 1/16	1. COPPER TUBING - UP TO 1". 6 FEET: OVER 1", 8 FEET 2. STEEL PIPE - UP TO 1-1/4", 8 FEET: 1-1/2" AND 2", 10 FEET: 2" THROUGH 3-1/2", 12 FEET OVER 3-1/2", 16 FEET 3. CAST IRON PIPE - REFER TO SANITARY PIPING	GIAND
DRAINAGE EPT THAT < WITH	B. EQUAL PRODUCTS - EQUIVALENT DEVICES BY GRINNELL. ELSEN. STOCKHAM OR CRANE WILL BE ACCEPTED.	
KE NO 3 OF EDUCERS DRILLING IUBS AND	C. HANGER RODS - OF MILD STEEL, THREADED AS REQUIRED. USE NOT SMALLER THAN 3/8" RODS FOR PIPE 2" AND UNDER, 1/2" RODS FOR PIPES 2-1/2" THROUGH 6", BUT GENERALLY AS STANDARD FOR THE HANGER SELECTED. SUPPORT RODS WITH THREADED INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS.	SEAL
ND	D. AT TYPICAL SUSPENDED HORIZONTAL PIPE - ADJUSTABLE CLEVIS OR SPLIT-RING TYPE, EQUAL TO FEE & MASON 233 OR 215.	
	E. WHERE IN CONTACT WITH COPPER PIPE - SAME AS ABOVE EXCEPT HANGERS COPPER PLATED.	Winton Engineering, P.A Robin Winton, P.E.
RTICAL OF THE	F. VERTICAL PIPING ALONG WALL - FEE & MASON #241 RISER CLAMPS AT FLOORS AND #336 STAND-OFF BRACKETS TOGGLE BOLTED TO WALL. PLACE UNDER HUBS OR COUPLINGS WHERE AT ALL POSSIBLE, GRINNELL OR WATTS.	2201 WOODBINE DR. TALLAHASSEE, FL 32309
ND NOT	G. ON INSULATED LINES - SIZE HANGER LOOPS TO FIT OVER INSULATION, AND PROVIDE 12" LONG, 22 GAUGE GALVANIZED SHEET METAL HALF-ROUND SADDLES TO PROTECT INSULATION.	850-894-5376 FL <b>*56206</b>
<del>S</del> .	H. SUPPORTS FOR WATER SUPPLY PIPING IN SPACES BEHIND PLUMBING FIXTURES - ABS BRACKETS AND U-BOLTS, SECURE THE TWO-PIECE BRACKETS TO CAST IRON STACKS, U-BOLTS SHALL BE SIZED TO BEAR ON THE PIPE, BRACKETS SHALL BE P & M BRACKET CO., OR EQUAL.	ROBIN WINTON, P.E. 56206
RTIAL	I. AT HORIZONTAL PIPING ALONG WALL - FEE & MASON #146 I-HOOKS.	
ION.	3.1 FIXTURE SUPPORTS AND CONNECTIONS:	
TH THE	A. GENERAL – ALL FIXTURES INCLUDING LAVATORIES, URINALS, WATER CLOSETS, ELECTRIC WATER COOLERS, ETC., MUST BE SECURELY FASTENED TO THE WALLS OR FLOOR.	PRELIMINARY
SITE AND	B. WALL MOUNTED FIXTURES - SUPPORT ALL WALL MOUNTED FIXTURES WITH 3/16" THICK X 3-1/2" HIGH PLATES FULL LENGTH OF FIXTURE, MOUNTED BEHIND WALL. WHERE FIXTURES ARE BACK TO BACK ON A SOLID WALL, MOUNT WITH BOLTS FROM FIXTURE HANGER TO FIXTURE HANGER. DO	
IINGS, EMOVE IPE ENDS LLY TO AINAGE OF R RELIEF.	NOT USE TOGGLE BOLTS OR EXPANSION BOLTS EXCEPT AS NOTED. WHERE FIXTURES ARE MOUNTED ON SOLID WALLS FINISHED BOTH SIDES, INSTALL FIXTURE WITH PLATED TOGGLE BOLTS. WHERE FIXTURES ARE MOUNTED ON WELDED STUDS, EMPLOY 3/16" STEEL HANGER PLATES PLACED ON WALL BEFORE LATHING. PLATES SHALL BE 16" X 8" MINIMUM SIZE, AND SHALL HAVE WELDED-ON BOLT STUDS. WHERE FIXTURES ARE MOUNTED ON WOOD OR LIGHT GAUGE STEEL STUDS, EMPLOY PRESSURE TREATED BLOCKING OF 2 X 10 NOMINAL SIZE WELL SECURED INTO STUD LINE WITH NON-CORROSIVE FASTENERS. FIT BEHIND STUD FLANGES, USING ESPECIALLY PLACED STUDS AS REQUIRED.	SCALE 0' 4' 8' 16' SCALE: 1/8" = 1' - 0"
Y BE T LOW	C. FLOOR CONNECTIONS - PROVIDE FLOOR FLANGES, SCREWED OR CAULKED TO DRAINAGE PIPE. BOLT THE CONNECTION AND MAKE TIGHT TO FIXTURE WITH SETTING RING OR POLYETHYLENE GASKET FLANGE.	
extra	D. WASTE ARMS TO FIXTURES - AS SPECIFIED HEREINBEFORE. WHERE COPPER OR BRASS PIPE IS SPECIFIED, ALL JOINTS DOWNSTREAM FROM TRAP SHALL HAVE SOLDERED JOINTS.	REVISIONS
	E. STERILIZATION - THE COMPLETED SUPPLY LINE SHALL BE STERILIZED AS REQUIRED BY STATE LAW BEFORE ACCEPTANCE FOR DOMESTIC OPERATION.	

**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.

PLUMBING

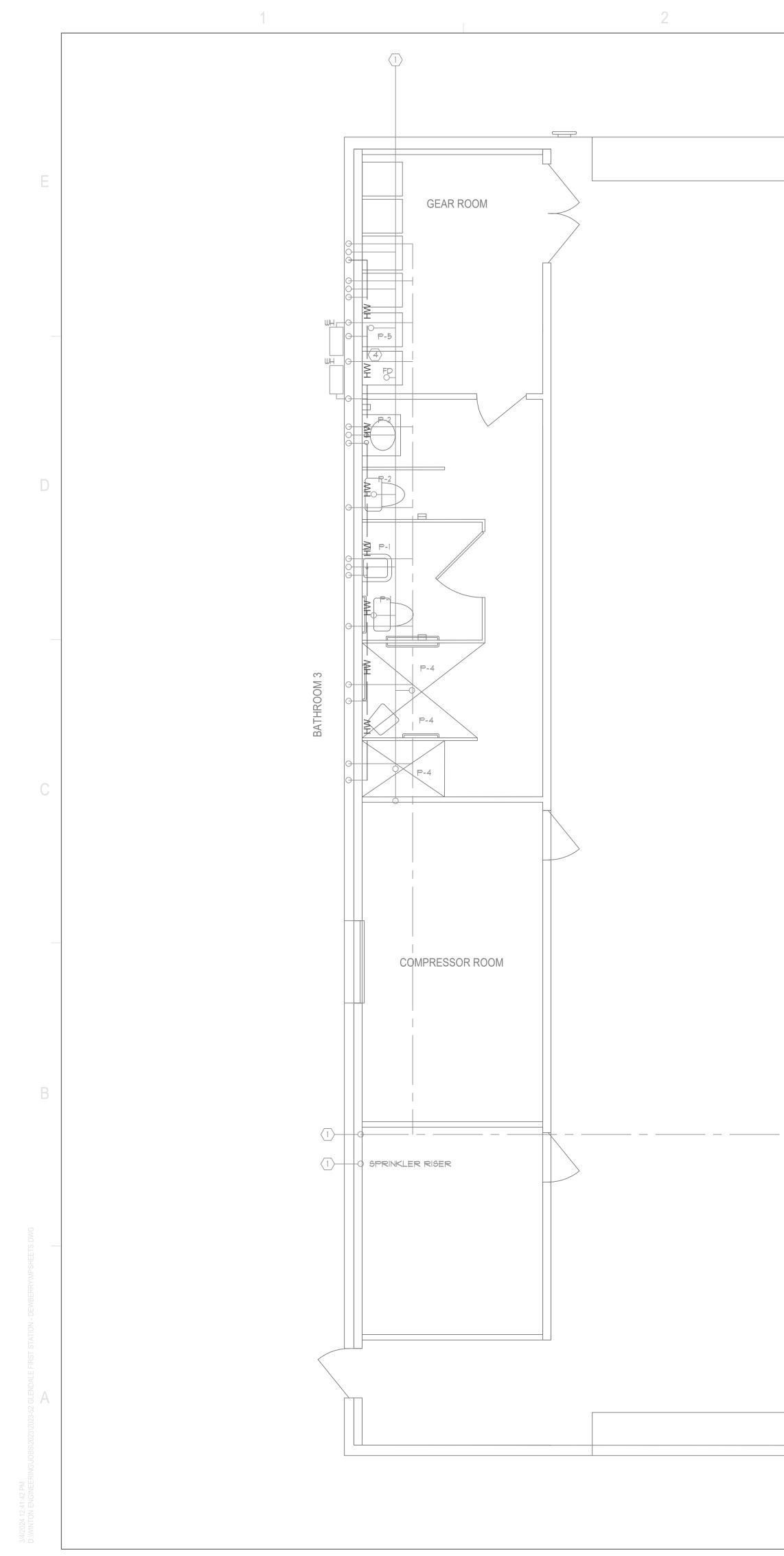
50150622

RPW

RPW

RPW

AUGUST 2023



KEYNOTES:

 $\langle 1 \rangle$  REFER TO CIVIL FOR CONTINUATION.

 $\overline{(2)}$  provide washer box refer to detail.

 $\langle 3 \rangle$  provide water hammer refer to detail.

 $\langle 4 \rangle$  provide wall box and valve for ice maker.

GARAGE AREA

	ф			
·	Ч <sub>НВ</sub>			·

THB



