365 Joe Stephens Road, Georgia 30217

HEARD COUNTY FIRE STATION #5 365 Joe Stephens Road Franklin, GA 30217 © 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION NOT RELEASED FOR CONSTRUCTION Description Issued for Bid A Professional Corporation for the Practice of Architecture www.gsstj.com Tower Place Building. 3340 Peachtree Road, N.E. Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f) PROJECT NO. 22125 SHEET TITLE **COVER SHEET** SHEET NO.

PROJECT TEAM

OWNER

COMMISSIONER'S OFFICE 15 COURT SQUARE FRANKLIN, GEORGIA 30217

TELEPHONE: >

ATLANTA, GA 30303

ARCHITECT GARDNER, SPENCER, SMITH, TENCH & JARBEAU, P.C. TOWER PLACE, 3340 PEACHTREE ROAD **SUITE 1800**

ARCHITECT OF RECORD: JOSEPH G. GARDNER, NCARB CONTACTS: JOSEPH G. GARDNER. NCARB JOELLE TAMBUATCO, NCARB TELEPHONE: 404-522-8805 X 228 404-281-5251 678-448-8894

jgardner@gsstj.com

jtambuatco@gsstj.com

CIVIL ENGINEER **CARTER ENGINEERING** 1010 COMMERCE DRIVE BOGART, GA 30622

> ENGINEER OF RECORD: BRIAN KIMSEY, P.E. CONTACTS: BRIAN KIMSEY, P.E. TELEPHONE: 770-725-1200 brian@carterengineering.com

STRUCTURAL ENGINEER 3528 HABERSHAM AT NORTHLAKE TUCKER, GEORGIA 30084

ENGINEER OF RECORD: J. MAC WILLETT, P.E. CONTACTS: J. MAC WILLETT, P.E. BRANDON J. HOFFMAN, P.E., S.E. TELEPHONE: 770-270-9484, EXT. 148 MOBILE: 404-580-1197 mwillett@willettengineering.com

bhoffman@willettengineering.com

MECHANICAL ENGINEER BAA MECHANICAL ENGINEERS, INC. 500 BISHOP STREET, SUITE E2 ATLANTA, GEORGIA 30318

ENGINEER OF RECORD: JEFF LEE, P.E. CONTACT: JEFF LEE TELEPHONE: 404-255-0050 E-MAIL: jeffl@baamech.com

ELECTRICAL ENGINEER MATHIS CONSULTING ENGINEERS. LLC 244 O'DELL ROAD, SUITE 6 GRIFFIN, GEORGIA 30224

ENGINEER OF RECORD: J. KEITH MATHIS, P.E. CONTACTS: J. KEITH MATHIS, P.E. **CHRIS HAMILTON** TELEPHONE: 770-584-6193 MOBILE:

chris@mathisengineers.com

PLUMBING ENGINEER BAA MECHANICAL ENGINEERS, INC. 500 BISHOP STREET, SUITE E2

ATLANTA, GEORGIA 30318

E-MAIL:

ENGINEER OF RECORD: JEFF POWELL, P.E. **CONTACT: JEFF POWELL** TELEPHONE: 404-255-0050, EXT. 204 MOBILE: 404-819-6212

E-MAIL: jeffp@baamech.com

GENERAL NOTES

- DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO EXECUTION OF THE WORK IN QUESTION
- ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE UNLESS CLEARLY SHOWN OR NOTED OTHERWISE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS WRITTEN NOTIFICATION TO THE CONTRARY IS ISSUED AND SIGNED BY THE OWNER AND/ OR ARCHITECT

4. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN IN THE DOCUMENTS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH. WHETHER SHOWN HEREON OR NOT. PRIOR TO ANY EXCAVATION.

ALL VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUIT, AND SIMILAR ASSEMBLIES IN FINISHED ROOMS SHALL BE ENCLOSED IN A FINISHED CHASE, THE MATERIALS AND FINISHES OF SUCH CHASES SHALL MATCH ADJACENT FINISHED WALLS.

6. FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL. PLUMBING OR ELECTRICAL EQUIPMENT MAY BE REQUIRED. ACCESS PANELS SHALL BE

- EQUAL IN FIRE RATING TO SURFACE IN WHICH THEY OCCUR. REFER TO ENGINEERING DRAWINGS FOR LOCATION OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
- TIGHTLY SEAL ANY OPENINGS IN FIRE RATED WALLS BY DUCTS, PIPES, CONDUIT, STRUCTURAL MEMBERS, OR ANY OTHER MATERIALS. OPENINGS IN METAL STUD PARTITIONS SHALL BE SEALED WITH FIRE SAFING.
- GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION (TOILETS, SHOWERS, JANITORS CLOSET, ETC.) SHALL BE MOISTURE RESISTANT TYPE.

PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD AS SHOWN IN THE DRAWINGS. OR IF NOT SHOWN, MAXIMUM ALLOWED PER MANUFACTURERS SPECIFICATION.

OPPOSITE WALL FACES STAGGERED. FASTENERS SHALL BE OF APPROVED TYPE AND INSTALLED IN ACCORDANCE WITH APPLICABLE FIRE TEST. ALL WALLBOARD JOINTS IN ALL PARTITION WALLS SHALL BE TAPED AND FINISHED WITH JOINT COMPOUND, INCLUDING THOSE ABOVE THE FINISHED CEILING. PENETRATIONS FOR PIPES, CONDUIT, FRAMING MEMBERS, DUCTS, ETC. SHALL BE FRAMED WITH RUNNER CHANNELS AND TIGHTLY SEALED. SUCH PENETRATIONS SHALL BE TIGHTLY PACKED WITH MINERAL FIBER SAFING INSULATION.

- 11. IMMEDIATELY NOTIFY ARCHITECT IN WRITING IF ANY OMISSION, DISCREPANCY, AMBIGUITY, OR ERROR IN THE CONTRACT DOCUMENTS BE DISCOVERED OR IF ANY DOUBT AS TO THE MEANING OR INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS.
- 12. ALL ATTACHMENTS. SCREWS AND BOLTS BETWEEN STRUCTURAL STEEL AND TREATED WOOD. BLOCKING AND NAILERS SHALL BE GALVANIZED.
- 13. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, ETC. PER MFG. RECOMMENDATION.
- 14. SHOP DRAWINGS AND SAMPLES SHALL BE SUBMITTED FOR APPROVAL TO THE INTERIOR DESIGNER/ ARCHITECT PRIOR TO CONSTRUCTION AND/OR PURCHASE OF MATERIALS DESCRIBING THE OVERALL SCOPE AS WELL AS COMPLETE DETAILS OF WORK TO BE PERFORMED. ALL FABRICATION SHALL BE BASED ON ACTUAL FIELD DIMENSIONS
- 15. CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY LOCAL AND STATE AND LOCAL CODES. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE STATE CODES AND NFPA 90-A SHALL BE
- 16. VISIT THE JOB SITE AND CHECK ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A PRICE FOR PERFORMING ANY WORK.
- 17. CONTRACTOR TO VERIFY WITH THE OWNER AND/OR OWNER'S REPRESENTATIVES ALL PLUMBING AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT PROVIDED BY THE OWNER.
- 18. INTERIOR CONTRACT DOCUMENTS HOLD PRECEDENCE OVER ENGINEER DOCUMENTS FOR LOCATIONS, MOUNTING HEIGHTS, ETC. IF THERE IS A CONFLICT BETWEEN DOCUMENTS, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION

DESCRIPTION:

STORIES:

SQUARE

FOOTAGE:

PROJECT NOTES/ APPLICABLE CODES

INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION WITH GA AMENDMENTS. NATIONAL ELECTRIC CODE (NEC): 2020 EDITION

INTERNATIONAL FUEL GAS CODE (IFGC): 2018 EDITION WITH GA AMENDMENT.

INTERNATIONAL MECHANICAL CODE (IMC): 2018 EDITION WITH GA AMENDMENTS

INTERNATIONAL PLUMBING CODE (IPC): 2018 EDITION WITH GA AMENDMENTS INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2015 EDITION WITH GA

INTERNATIONAL FIRE CODE (IFC): 2018 EDITION

SUPPLEMENTS AND AMENDMENTS

VICINITY MAP

GEORGIA ACCESSIBILITY CODE - GAC 120-3-20 - 2015 EDITION

NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC): 2018 EDITION U.S. DEPT. OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA): 2010

CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE STANDARDS IN

PROJECT INFORMATION

PROJECT HEARD COUNTY FIRE STATION #5 CONSTRUCTION

PROJECT 365 JOE STEPHENS ROAD

LOCATION: FRANKLIN, GEORGIA

STORAGE (GROUP S-2) OCCUPANCY

CLASSIFICATION: **RESIDENTIAL (GROUP R-3**

ASSEMBLY (GROUP A-3)

OCCUPANCY LOAD:

CONSTRUCTION VB PER IBC 2018, V(000) PER NFPA 2018 TYPE:

NUMBER OF

SPRINKLER NOT SPRINKLERED

SYSTEM:

FIRST FLOOR: PORCH (UNENCLOSED)

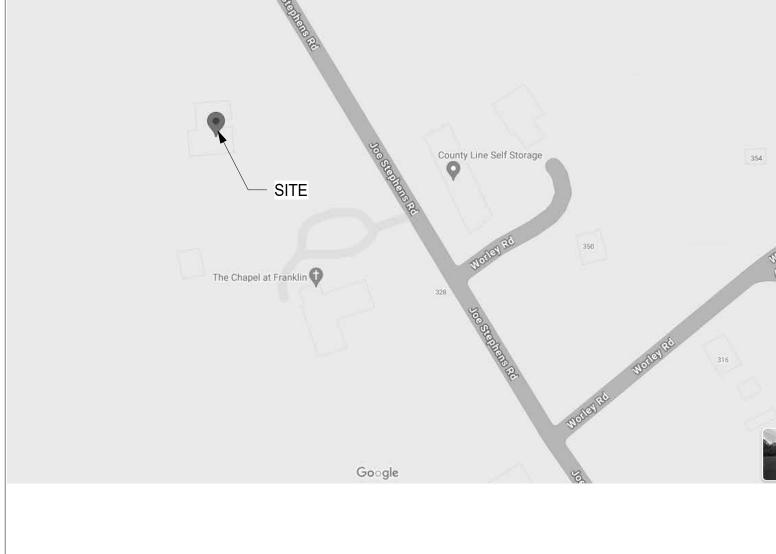
147 S.F. TOTAL:

5955 S.F.

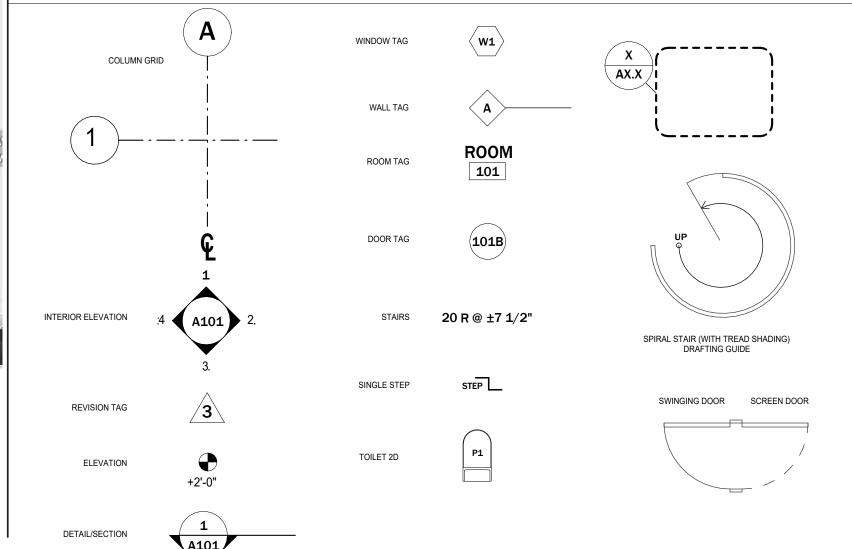
5808 S.F

PLUMBING FIXTURE DISTRIBUTION PER I.P.C. MINIMUM PLUMBING FIXTURE REQUIREMENTS TOTAL NO. PLUMBING FIXTURES REQUIRED / PLUMBING FIXTURES PROVIDED FLOOR LOAD OF PEOPLE PER FLOOR LAVATORIES 33 FEMALE 33 MALE

DRINKING FOUNTAIN DISTRIBUTION MINIMUM REQUIREMENTS INTERNATIONAL PLUMBING CODE REQUIRES 1 FOUNTAIN PER 100 PEOPLE FOR BUSINESS OCCUPANCY TOTAL = 1 REQUIRED / 1 WATER COOLER PROVIDED SERVICE SINKS: 1 REQUIRED / 1 PROVIDED



LEGEND



ELECTRICA	AL
E0.01 E1.1 E2.1 E3.1 E4.1	SITE PLAN - ELECTRICAL LEGEND, ELECTRICAL NOTES & DETAIL FLOOR PLAN - POWER FLOOR PLAN - LIGHTING FLOOR PLAN - SYSTEMS PANELBOARD SCHEDULES AND ONE LINE DIAGRAM

טאווטואול	
00	PLUMBING LEGEND, SCHEDULE, & DETAIL
10	PLUMBING FLOOR PLAN - S, W, & V
11	PLUMBING FLOOR PLAN - H, & CW
10	PLUMBING - LARGE SCALE PLANS

DRAWING INDEX

LEVEL 1 LIFE SAFETY PLAN

EXISTING SITE / DEMO PLAN

EROSION CONTROL NOTES

EROSION CONTROL DETAILS

EROSION CONTROL DETAILS

E & SC PLAN PHASE 1

E & SC PLAN PHASE 2

E & SC PLAN PHASE 3

STANDARD DETAILS

STANDARD DETAILS

STANDARD DETAILS

STANDARD DETAILS

STANDARD DETAILS

STANDARD DETAILS

PARTITION DETAILS

DIMENSION PLAN

FLOOR PLAN

ROOF PLAN

PARTITION & CEILING DETAILS

REFLECTED CEILING PLAN

ENLARGED PLANS - TOILETS

DOOR SCHEDULED & ELEVATIONS

FINISH LEGEND & SCHEDULE

INTERIOR - FLOORING PLAN

FURNITURE & EQUIPMENT PLAN

INTERIOR - FINISH PLAN

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

CASEWORK DETAILS

GENERAL NOTES

FOUNDATION PLAN

TYPICAL DETAILS

TYPICAL DETAILS

TYPICAL DETAILS

TYPICAL DETAILS

HVAC DETAILS

HVAC FLOOR PLAN

ROOF FRAMING PLAN

SECTIONS AND DETAILS

SECTIONS AND DETAILS

HVAC LEGEND, SCHEDULE, & DETAILS

HVAC LEGEND. SCHEDULE & DETAILS

U.L. DETAILS

U.L. DETAILS

STRUCTURAL

S4.04

M1.10

MECHANICAL

WINDOW ELEVATIONS & DOOR DETAILS

GENERAL NOTES & STRUCTURAL SPECIAL INSPECTIONS

EXTERIOR FLEVATIONS

EXTERIOR ELEVATIONS

BUILDING SECTIONS

WALL SECTIONS

WALL SECTIONS

WALL SECTIONS

ARCHITECTURAL

A1.41

A2.00A

A2.01A

STORMWATER MANAGEMENT PLAN

03/06/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

01/16/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

03/06/24

COVER SHEET

COVER SHEET

GRADING PLAN

UTILITY PLAN

SOILS MAP

UTILITY DETAILS

STORM PROFILES

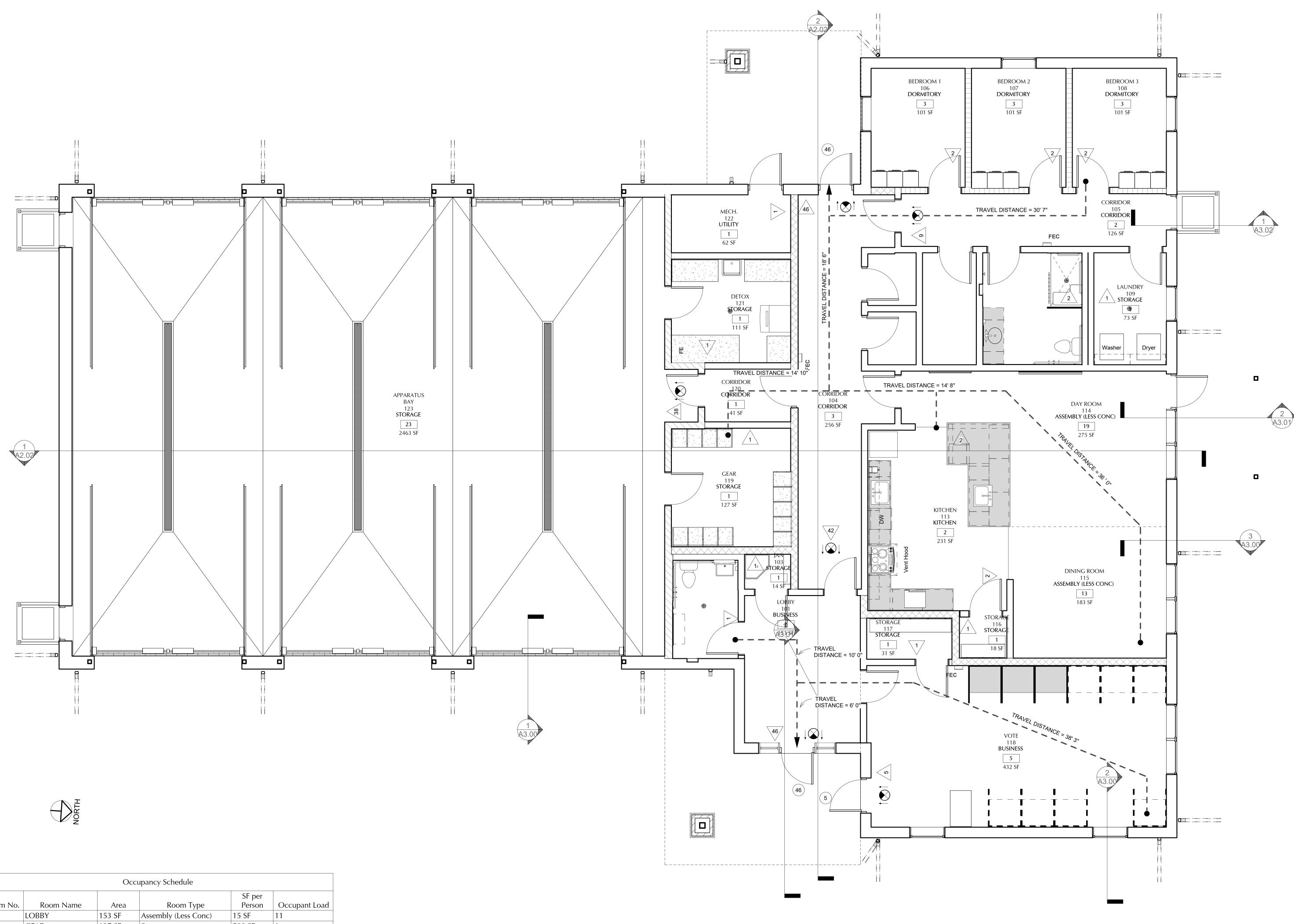
SITE PLAN

GENERAL NOTES

CIVIL

C5.0

03/06/24 03/06/24 03/06/24



LIFE SAFETY LEGEND

ONE HOUR RATED PARTITION TO STRUCTURE

ONE HOUR RATED CMU PARTITION TO STRUCTURE

SINGLE FACED EXIT SIGN

SINGLE FACED EXIT SIGN

DOUBLE FACED EXIT SIGN WITH ARROWS

TRAVEL PATH
MAXIMUM TRAVEL PATH FOR SPRINKLERED
ASSEMBLY OCCUPANCY = 250'-0" (PER NFPA 101
12.2.6.2)

F.E.C. SEMI-RECESSED FIRE EXTINGUISHER CABINET

DOOR CAPACITY

ROOM OCCUPANT

ROOM OCCUPANT LOAD

NUMBER OF OCCUPANTS USING EXIT DOOR

TOTAL EXIT WIDTH REQUIRED: 172 OCCUPANTS X 0.2" PER PERSON = 34.4"

TOTAL EXIT WIDTH PROVIDED: (33.25" PER SINGLE DOOR X 5 DOORS) + (66.5" PER DOUBLE DOOR X 4 DOORS) = 432.25"

Room No.	Room Name	Area	Room Type	Person	Occupant Load	
101	LOBBY	153 SF	Assembly (Less Conc)	15 SF	11	
103	GEAR	127 SF	Storage	500 SF	1	
103A	JAN	14 SF	Storage	500 SF	1	
104	VOTE	432 SF	Assembly (Less Conc)	15 SF	29	
104A	STORAGE	31 SF	Storage	500 SF	1	
105	CORRIDOR	256 SF	Dormitory	150 SF	2	
106	KITCHEN	231 SF	Kitchen	100 SF	3	
106A	STORAGE	18 SF	Storage	500 SF	1	
107	DAY ROOM	275 SF	Dormitory	200 SF	2	
108	DINING ROOM	183 SF	Dormitory	200 SF	1	
109	DETOX	111 SF	Storage	500 SF	1	
110 MECH.		62 SF	Storage	500 SF	1	
113	LAUNDRY	73 SF	Storage	500 SF	1	
114	CORRIDOR	126 SF	Dormitory	200 SF	1	
115	BEDROOM 1	101 SF	Dormitory	200 SF	1	
116	BEDROOM 2	101 SF	Dormitory	200 SF	1	
117	BEDROOM 3	101 SF	Dormitory	200 SF	1	
121	APPARATUS BAY	2463 SF	Storage	500 SF	5	
124	STORAGE	54 SF	Storage	500 SF	1	
125	CORRIDOR	41 SF	Storage	150 SF	1	
Grand total				•	66	

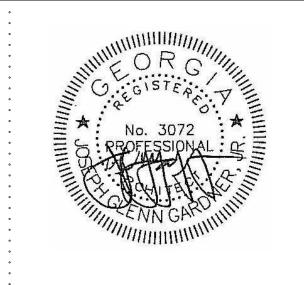
* FIRE

HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

		RELE	٩S	ED FOR CONSTRUCTION
				REVISIONS REVISIONS
No.	•	Date	•	Description
	. 0	3/06/24		Issued for Bid
	•			
	•		۰	
	•		۰	
	•		•	
	•		•	
			•	
	•		۰	
	•		•	
	•		•	
	•		•	
	•		•	
	•		•	
	•		۰	
			۰	



Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

22125

: SHEET TITLE : LIFE SAFETY PLAN

SHEET NO.

PROJECT NO.

STANDARD DETAILS

REVISION BLOCK

COPYRIGHT NOTICE © 2024 CARTER ENGINEERING ALL RIGHTS RESERVED

THIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CARTER ENGINEERING CONSULTANTS INC. AND IS TO BE RETAINED IN CONFIDENCE. WITHOUT WRITTEN PERMISSION OF AN OFFICER OF CARTER ENGINEERING

CONSULTANTS, INC. THIS PLAN IS NOT TO BE DUPLICATED, SENT, SHOWN OR USED FOR ANY OTHER PURPOSE THAN TO DISCLOSE TO THE RECIPIENT A DESIGN CONCEPT SPECIFIC TO THE PROJECT SHOWN HEREIN. THIS PLAN SET, INCLUDING ALL ARD COPIES AND ELECTRONIC FILES, IS TO BE RETURNED TO CARTER ENGINEERING CONSULTANTS, INC. UPON DEMAND

GENERAL PLAN SET NOTES

THE ENGINEER IS NOT RESPONSIBLE FOR COST CHANGES DURING CONCEPTUAL, PRELIMINARY, OR DESIGN PHASE.

BIDS & QUOTES SHALL BE REVISED BASED ON PLANS LABELED "ISSUE FOR CONSTRUCTION" ON THE REVISION BLOCK. IF DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE DEVIATION FROM THIS PLAN SET, THE

THE ENGINEER IS NOT RESPONSIBLE FOR DESIGN OR CONSTRUCTION COST ASSOCIATED WITH FIELD CHANGES OR DEVIATION FROM THIS PLAN SET DUE TO UNFORESEEN SITE CONDITIONS, CLIENT MODIFICATION REQUEST AND/ OR

THE ENGINEER IS NOT RESPONSIBLE FOR THE EFFICACY OF FIELD CHANGES OR DEVIATION FROM THIS PLAN SET IN

BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR BID" ON THE REVISION BLOCK.

ENGINEER SHOULD BE NOTIFIED FOR UPDATED PLANS AND/ OR FIELD CHANGES.

ANYWAY, UNLESS CHANGES ARE DIRECTED BY THE ENGINEER

REVISION DATE & DESCRIPTION

01.16.24 - CLIENT REVIEW

C 9.0 - C 9.5

REVISION NUMBER

ISSUE 1

ISSUE 2

ISSUE 3

ISSUE 4

ISSUE 5

ISSUE 6

ISSUE 7

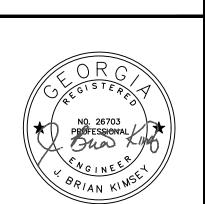
ISSUE 8

ISSUE 9

ISSUE 10

F: 770.725.1204





GSWCC Level II Certification

COVER

SHEET NUMBER:

23001HCG

01.16.24

SITE DEVELOPMENT PLANS FOR FIRE DEPARTMENT 5

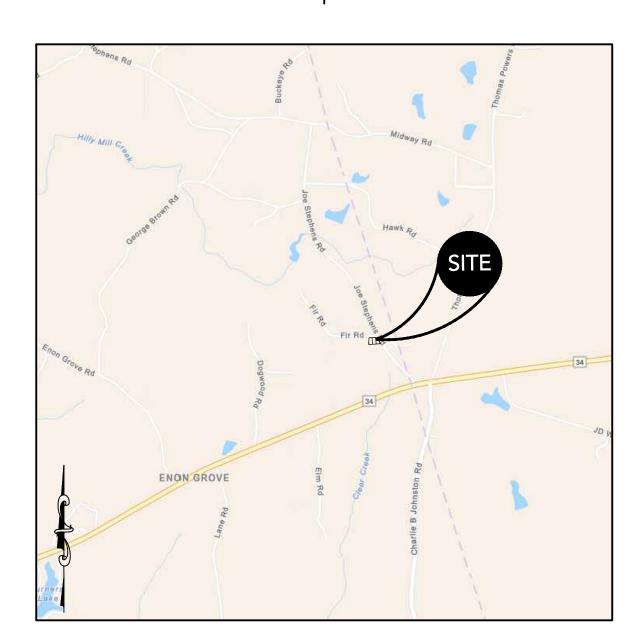
HEARD COUNTY

PROJECT LOCATION

365 JOE STEPHENS ROAD FRANKLIN, GA 30217

33.342700 NORTH -84.985220 WEST

DISTURBED AREA 1.2 ACRES



NOT TO SCALE

PROJECT CONSULTANTS AND CONTACT INFORMATION

CIVIL ENGINEER OWNER / DEVELOPER CARTER ENGINEERING CONSULTANTS, INC. HEARD COUNTY BOARD OF COMMISSIONERS 1010 COMMERCE DRIVE 201 PARK AVENUE BOGART, GA 30622 FRANKLIN, GA 30217 CONTACT: 770.725.1200 CONTACT: 706-675-3821 BRIAN KIMSEY, P.E.

24-HOUR CONTACT: FELICIA ADAMS

CONTACT: 404.522.8805

FELICIAADAMS@HEARDCOUNTYGA.COM

ARCHITECT SURVEYOR GARDNER SPENCER SMITH TENCH & GEOCON SURVEYING, INC. 2339 HAYS MILL ROAD 3340 PEACHTREE ROAD, N.E. SUITE 1800 CARROLLTON, GA 30117 CONTACT: 770.830.1997 ATLANTA, GA 30326

DESIGN BENCHMARK 100% CONSTRUCTION DOCUMENTS DRAWING STATUS NOT FOR CONSTRUCTION

BRIAN@CARTERENGINEERING.COM

HENRY T. MCBRAYER, GA RLS #2570



CONSTRUCTION ENTRANCE

PARCEL ID NUMBER

0052 0069

SITE LOCATION MAP

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR, AT HIS EXPENSE, UNLESS ALREADY
- OBTAINED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES
- AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING, AND ALL OTHER UTILITIES.
- THE EXISTING UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE DRAWINGS. THE UTILITIES SHOWN ARE THOSE LOCATED BY THE SURVEYOR OF RECORD. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE UTILITIES SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL

UTILITIES WITHIN THE LIMITS OF WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR

- SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR CONSENT OF THE ENGINEER AND THE MUNICIPALITY MAY CAUSE FOR THE WORK TO BE UNACCEPTABLE.
- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE
- 8. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK
- AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
- . THE CONTRACTOR SHALL PROVIDE SHEETING AND SHORING FOR ALL TRENCH CONSTRUCTION IN ACCORDANCE WITH OSHA GUIDELINES.
- 11. ALL PIPE LENGTHS SHOWN ARE TO THE CENTERLINE OF THE STRUCTURES UNLESS SPECIFICALLY NOTED.
- 12. PIPES (STORM AND SANITARY SEWER) SHALL BE LAID ON SMOOTH, CONTINUOUS GRADES WITH NO VISIBLE BENDS AT THE JOINTS BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUM REQUIRED FOR
- RELATIVELY DRY STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES TO PROVIDE SUCH ADDITIONAL BEDDING AS REQUIRED TO PROPERLY CONSTRUCT WORK.
- 14. ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL RING AND COVER FOR ACCESS.
- 15. ALL ANGLES SHOWN ARE 90 DEGREES UNLESS SHOWN OTHERWISE.
- 16. ALL GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY DIMENSIONS, GRADES, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.
- 17. CONCRETE CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON PLANS. MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T. STANDARD SPECIFICATIONS.
- 18. ALL CONCRETE SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS, WITH A MAXIMUM SLUMP OF FOUR (4) INCHES, UNLESS SPECIFIED OTHERWISE.
- 19. ALL EXPOSED CONCRETE SHALL HAVE A FINE HAIR BROOMED FINISH.
-). PARKING AND DRIVEWAY BASE COURSE AND ASPHALTIC CONCRETE SURFACE AND PRIME MATERIALS, EQUIPMENT, METHODS FOR CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T.
- 21. CONTRACTOR TO FIELD VERIFY ALL STORM, SANITARY, WATER AND OTHER UTILITIES LOCATIONS AND INVERTS PRIOR TO INSTALLATION OF ANY UTILITIES. NOTIFY ENGINEER PRIOR TO PROCEEDING WITH ANY WORK IF DISCREPANCIES FOUND.
- 22. THE USE OF CONCRETE THRUST BLOCKS FOR THE INSTALLATION OF WATER MAINS IS STRICTLY PROHIBITED. PRESSURE PIPE FITTINGS AND OTHER ITEMS REQUIRING RESTRAINT SHALL BE RESTRAINED USING METHODS SPECIFIED AND APPROVED BY COUNTY/CITY TECHNICAL STANDARDS, SPECIFICATIONS AND REGULATIONS. THE PREFERRED METHOD OF RESTRAINT IS THROUGH THE USE OF "MEGA-LUGS" OR
- 23. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

EARTHWORK SPECIFICATIONS

CLEARING AND GRUBBING

- CLEARING AND GRUBBING SHALL CONSIST OF CLEARING THE SURFACE OF THE GROUND OF THE DESIGNATED AREAS OF ALL TREES, LOGS, SNAGS, BRUSH, UNDERGROWTH, HEAVY GROWTH OF GRASS WEEDS, FENCE STRUCTURES, DEBRIS AND RUBBISH OF ANY NATURE, NATURAL OBSTRUCTIONS SUCH AS OBJECTIONABLE SOIL MATERIAL UNSATISFACTORY FOR FOUNDATIONS. IT SHALL ALSO CONSIST OF GRUBBING OF STUMPS, ROOTS FOUNDATIONS AND DISPOSAL OF ALL SUCH MATERIAL. ALL HOLES REMAINING AFTER THE GRUBBING OPERATION IN EMBANKMENT AREAS AND IN EXCAVATION AREAS LESS THAN TWO (2) FEET IN DEPTH, SHALL HAVE SIDES BROKEN DOWN AND LEVELED IF NECESSARY TO FLATTEN OUT SLOPES. REFILLED WITH ACCEPTABLE MATERIAL THAT IS PROPERLY COMPACTED IN LAYERS BY TAMPERS, ROLLERS OR CONSTRUCTION EQUIPMENT.
- BURNING ON SITE IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.

EXISTING TREES OUTSIDE OF GRADING LIMITS LINE:

TREES AND VEGETATION TO BE SAVED SHALL BE PROTECTED FROM DAMAGE BY A FENCE BARRICADE PRIOR TO, OR DURING, CLEARING OPERATIONS. TREES TO BE REMOVED FROM THE AREA OUTSIDE THE LIMITS OF GRADING OR FROM SPECIFICALLY DESIGNATED AREAS WITHIN THE CONSTRUCTION AREAS. IF, IN THE OPINION OF THE ENGINEER, A CONTRACTOR DAMAGES A TREE NOT TO BE REMOVED, THE CONTRACTOR WILL BE FINED A PREDETERMINED AMOUNT FOR EACH DAMAGED TREE. THE CONTRACT SHALL ALSO BE RESPONSIBLE FOR ALL COSTS ASSOCIATED IN REMOVING THE DAMAGED TREE FROM THE

- ALL VEGETATION SUCH AS ROOTS, BRUSH, HEAVY GROWTH OF GRASS, TOPSOIL, ALL DECAYED VEGETABLE MATTER, RUBBISH, AND OTHER UNSUITABLE MATERIAL WITHIN THE AREA UPON WHICH FILL IS TO BE PLACED SHALL BE STRIPPED OR BE OTHERWISE REMOVED BEFORE THE FILL OPERATION IS STARTED. IN NO CASE SHALL UNSUITABLE MATERIAL REMAIN IN OR UNDER THE FILL AREA. SLOPED GROUND SURFACE STEEPER THAN ON VERTICAL TO FOUR HORIZONTAL, ON WHICH FILL IS TO BE PLACED, SHALL BE PLACED, STEPPED OR BENCHED IN SUCH A MANNER THAT THE FILL TO BE PLACED SHALL BE 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (AASHTO T99, ASTM D-698), MOISTURE CONTENT SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROOF ROLL THE AREAS TO BE FILLED OR ON WHICH STRUCTURES ARE TO BE PLACED. A LOADED DUMP TRUCK OR OTHER RUBBER TIRED EQUIPMENT SHALL BE USED FOR PROOF ROLLING. OVERLAPPING PASSES OF A VEHICLES SHOULD BE MADE ACROSS THE SITE IN ONE
- DIRECTION AND THEN PERPENDICULAR TO THE ORIGINAL DIRECTION OF ROLLING. 2. ANY YIELDING, PUMPING OR SOFT AREAS SHOULD BE CUT OUT AND REPLACED WITH FILL COMPACTED
- THE PROPOSED FILL SHOULD BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D-2487 AS GM, GC, SW, SM, SC, ML AND CL. SOIL CLASSIFIED AS PT, OH, OL, CH AND MH ARE NOT SATISFACTORY AS COMPACTED FILL
- 4. FILLS AND EMBANKMENTS SHALL BE CONSTRUCTED AT THE LACTATIONS AND TO THE LINES AND GRADES INDICATED ON CONSTRUCTION PLANS. THE SLOPE SHALL NOT EXCEED 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (3 FOOT HORIZONTAL TO 1 FOOT VERTICAL IN THE PUBLIC RIGHT OF WAY). THE COMPLETED FILL SHALL CORRESPOND TO THE SHAPE OF THE TYPICAL SECTIONS INDICATED ON THE CONSTRUCTION PLANS. MATERIAL REMOVED FROM THE EXCAVATION SHALL BE USED IN FORMING THE FILL. FILL MATERIAL SHALL BE REASONABLY FREE FROM ROOTS, OTHER ORGANIC MATERIAL, TRASH AND STONES HAVING MAXIMUM DIMENSIONS GREATER THAN 6 INCHES (4 INCHES IN TRENCHES FOR UTILITIES). NO FROZEN MATERIAL WILL BE PERMITTED IN THE FILL. STONES HAVING A MAXIMUM DIMENSION OF 4 INCHES WILL NOT BE PERMITTED IN THE UPPER SIX INCHES OF FILL OR EMBANKMENT OR UTILITY TRENCH. THE MATERIAL SHALL BE PLACED IN SUCCESSIVE HORIZONTAL LAYERS NOT MORE THAN 8 INCHES THICK. UNLESS OTHERWISE NOTED. IN LOOSE DEPTH FOR THE WIDTH OF THE CROSS-SECTION AND SHALL BE COMPACTED TO AT LEAST 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (ASTM D-698, AASHTO T-99). MOISTURE SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE TOP 12 INCHES OF THE PAVING, PARKING AND/OR ROADWAY SUB-GRADE SHALL BE COMPACTED TO 97 PERCENT OF THE MAXIMUM DRY DENSITY (STANDARD PROCTOR). EACH LIFT SHALL BE ROLLED WITH A VIBRATORY ROLLER, A SHEEPSFOOT ROLLER, OR A LOADED RUBBER TIRED DUMP TRUCK, SCRAPER OR LOADER. IF THE SOIL IS TOO DRY, A WATER TRUCK WITH SPREADER BAR OR SPRAY HOSE SHALL BE USED TO BRING THE SOIL TO THE PROPER MOISTURE RANGE. THE WATER SHALL BE THOROUGHLY AND PROPERLY MIXED WITH THE SOIL PRIOR TO
- STORM DRAIN PIPES SHALL BE PLACED ON FIRM BOTTOM AND HAND TAMPED TO SAFE UP THE PIPE. A CUSHION OF SOIL SHALL BE TAMPED ABOVE THE CROWN OF THE PIPE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS SO THAT THE HEAVIER COMPACTION EQUIPMENT CAN THEN BE USED TO BRING THE SOIL TO A DENSITY AS DESCRIBED ABOVE FOR FILL AREAS.
- IF SOILS INVESTIGATION REPORT IS PROVIDED, THEN FOLLOW THE RECOMMENDATIONS OF THE REPORT IF THEY EXCEED THE RECOMMENDATIONS OF THESE SPECIFICATIONS.

UNLESS OTHERWISE SPECIFIED, AREAS DESIGNATED FOR GRADING OPERATIONS THAT CONTAIN A BLANKET OF TOPSOIL SHALL BE STRIPPED AND PLACED IN CONVENIENT STOCKPILES FOR LATER USE AS A TOPSOIL BLANKET ON THE NEW GRADED AREAS SPECIFIED HEREIN, OR AS DESIGNATED, TOPSOIL SHALL BE STRIPPED FROM ALL AREAS DESIGNATED TO RECEIVE FILL. THE STRIPPING OF MATERIAL FOR TOPSOIL SHALL BE CAREFULLY DETERMINED AND ONLY THE QUANTITY REQUIRED SHALL BE STOCKPILED. MATERIAL STOCKPILED SHALL BE STORED IN A SATISFACTORY MANNER TO AFFORD PROPER DRAINAGE. WHEN GRADING OPERATIONS PERMIT, INSTEAD OF STOCKPILING, THE TOPSOIL SHALL BE HAULED AND SPREAD DIRECTLY ON THE AREAS DESIGNATED TO RECEIVE TOPSOIL.

ROCK EXCAVATION:

1. IF ROCK IS ENCOUNTERED, CLEAR AWAY EARTH TO EXPOSE MATERIAL. NOTIFY OWNER AND RECEIVE WRITTEN INSTRUCTIONS PRIOR TO EXCAVATION, REMOVE ROCK TO A DEPTH OF 6 INCHES BELOW AND 8 INCHES ON EACH SIDE OF PIPES IN TRENCHES. A MEASUREMENT OF EXTENT OF ROCK TO BE REMOVED SHALL BE MADE. ROCK EXCAVATION SHALL BE PAID FOR IN ACCORDANCE WITH AGREEMENT WITH THE

DEMOLITION NOTES

EXISTING STRUCTURES & FACILITIES:

- 1. THE LOCATIONS OF ALL EXISTING FACILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER / LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY, PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
- 2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT, AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
- 3. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIM/HERSELF WITH THE STRUCTURES TO BE DEMOLISHED, A BRIEF DESCRIPTION OF THE STRUCTURES PROPOSED TO BE INSTALLED AND DEMOLISHED ARE INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
- 4. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF THE DEMOLITION WHERE DEMOLITION IS REQUIRED (SEE CORRESPONDING PLANS):
- 4.1. DEMOLITION AND REMOVAL OF EXISTING ON-SITE ASPHALT, CONCRETE, PAVING, AND CURBING TO LIMITS OF DISTURBANCE/DEMOLITION AS SHOWN ON THE CORRESPONDING PLANS. CONTRACTOR TO VERIFY AND COORDINATE ANY DISCREPANCIES AND/OR CONCERNS WITH ENGINEER/LANDSCAPE ARCHITECT ACCORDINGLY.
- 5. ALL ON-SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY REMOVED AND OVER-EXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRACTOR SHALL USE APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE CLEAN WITH LESS THAN 50% PASSING THE #200 SIEVE, PLASTICITY INDEX LESS THAN 10, WITH MAXIMUM PARTICLE SIZE OF 1.25 INCHES, AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T99).
- 6. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE. DEMOLISH COMPLETELY ON THE
- 7. ALL EXISTING SEWERS, PIPING, UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK
- 8. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR PERSON AND PROPERTY AT ALL TIMES. HE OR SHE SHALL EXECUTE THE WORK IN A MANNER THAT AVOIDS HAZARDS TO PERSONS AND PROPERTY AND THAT PREVENTS INTERFERENCE WITH THE USE AND ACCESS TO ADJACENT PROPERTIES, BUILDINGS, AND ADJACENT STREETS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED BY DEBRIS AND
- 9. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING THE DEMOLITION AND/OR EXCAVATION PROCESS.

DISPOSAL:

10. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. ALL REFUSE AND MISCELLANEOUS ITEMS TO BE REMOVED, THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DIPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH ANY AND ALL APPLICABLE LAWS, STANDARDS, AND REGULATIONS SET FORTH BY LOCAL, STATE, AND FEDERAL OFFICIALS THAT GOVERN THE DISPOSAL OF WASTE AND DEBRIS.

PAVEMENT REMOVAL:

- 11. WHERE EXISTING PAVEMENT IS TO BE REMOVED, CONTRACTOR SHALL SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH THE MINIMAL DISTURBANCE POSSIBLE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
- 12. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY OR VALLEY GUTTER IS TO BE REMOVED FOR THE PURPOSE OF CONSTRUCTION OR REMOVING BOX CULVERTS, PIPE, INLETS. MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., THE SAID OR PROPOSED STRUCTURE SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND ANY OTHER NECESSARY EQUIPMENT AS REQUIRED BY PROJECT AND SITE REQUIREMENTS.

ACCESS:

13. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING THE DEMOLITION PROCESS OF THE EXISTING FACILITIES AND SITE.

PERMITTING:

- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION WITH ALL REQUIREMENTS PRIOR TO COMMENCING OF DEMOTION WORK.
- 15. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS AND ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LEAD ENGINEER/ARCHITECT PRIOR TO BID SUBMITTAL.
- 16. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITY TO THAT AREA DELINEATED IN THE DRAWING AND APPROVED BY OFFICIALS.
- 17. ALL OTHER EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, AND WATER & SEWER SHALL BE PRESERVED AND PROTECTED AT ALL TIMES AS NEEDED

STAKING AND SURVEYING NOTES

STAKING:

- 1. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION STAKING AND CONSTRUCTION ACTIVITIES BASED ON THE LATEST APPROVED DESIGN PLANS AND/OR DESIGN FILE(S) AS PROVIDED AND AS WARRANTED BY CLIENT AND PROJECT NEEDS.
- 2. PRIOR TO COMMENCING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR AND/OR STAKING SURVEYOR SHALL CONFIRM WITH THE PROJECT LEAD ENGINEER/ARCHITECT, WHO'S RESPONSIBLE FOR THIS PROJECT, THAT THE LATEST PLANS AND/OR DESIGN FILE(S) ARE BEING UTILIZED.
- 3. THE ENGINEER/LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR OWNERS, CONTRACTORS OR SURVEYORS STAKING OR PERFORMING CONSTRUCTION ACTIVITIES BASED ON OUT-OF-DATE DESIGN
- 4. CONSTRUCTION STAKING SHALL ADHERE TO THE HORIZONTAL AND VERTICAL DATUM LISTED IN THIS CONSTRUCTION SET AND AS PROVIDED IN THE CORRESPONDING FILES, NOTES, AND/OR DRAWINGS.

TOLERANCES & DISCREPANCIES:

- 5. IF, DURING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, SURVEY DISCREPANCIES ARE ENCOUNTERED WITH REGARD TO THE DESIGN PLANS OR DESIGN FILE, WORK SHOULD CEASE AND THE LEAD ENGINEER/LANDSCAPE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY TO RESOLVE THE ISSUE OR ISSUES. THE ENGINEER / LANDSCAPE ARCHITECT CAN NOT BE HELD RESPONSIBLE OR LIABLE FOR ISSUES THAT THEY HAVE NOT RECEIVED NOTIFICATION.
- 6. THE CONSTRUCTION TOLERANCES SHOWN IN THE CORRESPONDING DRAWINGS, NOTES, AND/OR FILES, IN GENERAL, REPRESENT INDUSTRY STANDARDS. HOWEVER, EXCEPTIONS CAN BE MADE IF IT DETERMINED THAT CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO NOT ADVERSELY AFFECT THE DESIGN REQUIREMENTS OR FUNCTIONALITY. THE LEAD ENGINEER/LANDSCAPE ARCHITECT WILL EVALUATE CONSTRUCTION ACTIVITIES THAT DEVIATE FROM THE DESIGN PLANS ON A CASE-BY-CASE BASIS. IF IT IS DETERMINED THAT THE CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO ADVERSELY AFFECT THE DESIGN REQUIREMENTS, FUNCTIONALITY, AND INTENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ALL ITEMS TO THE PLANS AND SPECIFICATIONS AS DETERMINED AND REQUIRED BY DESIGN PROFESSIONAL, AT THE CONTRACTOR'S EXPENSE.

CIVIL ENGINEERING DESIGN TOLERANCES FOR PROJECT:

CONSTRUCTION, MATERIALS, TESTING, AND CERTIFICATIONS.

GENERAL GRADING:	±0.10 FEET	RETAINING WALLS:	±0.05 FEET
ALL PIPE/CONDUITS:	±0.05 FEET	SITE FEATURES (SPOT ELEV., ETC.)	±0.05 FEET
DRAINAGE STRUCTURES:	±0.05 FEET	UTILITY ELEVATIONS:	±0.10 FEET
SANITARY SEWER STRUCTURES:	±0.05 FEET	EROSION CONTROL BMPS:	±0.05 FEET
STORMWATER POND FEATURES:	±0.05 FEET		

AS-BUILT & SPECIFICATIONS:

- 7. THE ENGINEER/LANDSCAPE ARCHITECT SHOULD BE PROVIDED WITH AN AS-BUILT SURVEY OF THE PROJECT FOR REVIEW AND APPROVAL AFTER THE PROJECT IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EFFORTS WITH DESIGN PROFESSIONAL
- 8. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL SITE SPECIFIC REQUIREMENTS REGARDING

PROJECT GEOGRAPHICAL INFORMATION

PROJECT PROJECTION & DATUM:

HORIZONTAL DATUM: NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT VERTICAL DATUM: NORTH AMERICAL VERTICAL DATUM OF 1988 (NAVD88)

BOUNDARY SURVEY:

SURVEYOR NAME: HENRY T. MCBRAYER, GA RLS #2570

DATE OF SURVEY: 02.10.23

TRACT OR PARCEL: HORIZONTAL DATUM: NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT

VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88)

TOPOGRAPHIC SURVEY:

SURVEYOR NAME: HENRY T. MCBRAYER, GA RLS #2570

DATE OF SURVEY: 02.10.23

TRACT OR PARCEL: * HORIZONTAL DATUM: NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

GEOGRAPHICAL INFORMATION SYSTEMS (GIS) DATA UTILIZED:

TOPOGRAPHIC DATA: FIELD RUN SURVEY PARCEL DATA: FIELD RUN SURVEY

GEORGIA COMP. R. & REGS. R. 180-6-.09:

ADDITIONAL DATA: HEARD COUNTY GIS DATA

THE TOPOGRAPHIC AND ELEVATION DATA SHOWN HEREON WAS OBTAINED FROM FIELD RUN SURVEY AND IS NOT CERTIFIED AS CORRECT BY THIS ENGINEER. USERS OF THIS DATA DO SO AT THEIR OWN

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES





CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 -: 770.725.1204

www.carterengineering.com

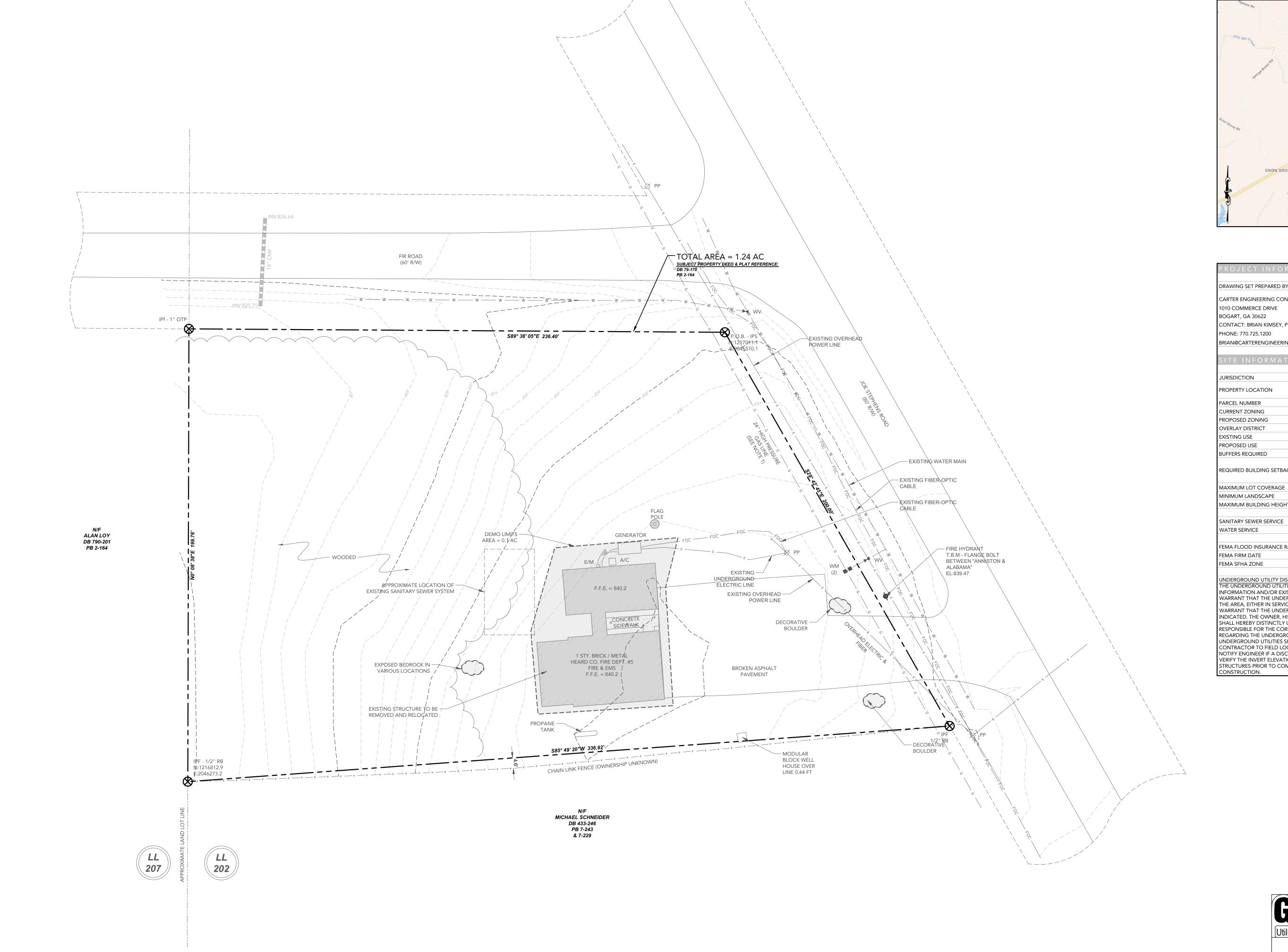
GENERAL NOTES

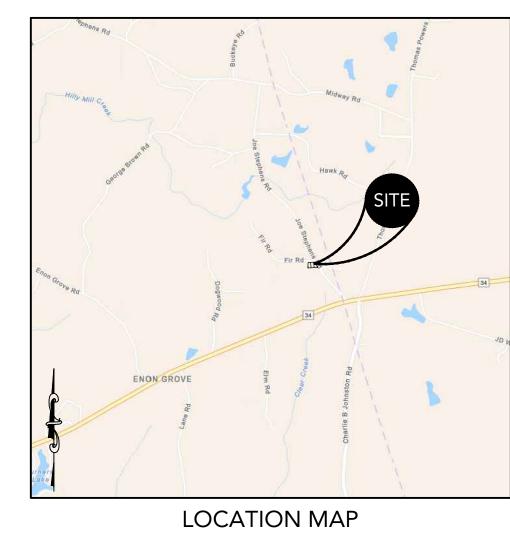
PROJECT NAME:

HEARD COUNTY

SHEET NUMBER:

PROJECT NUMBER: 23001HCG





DRAWING SET PREPARED BY:	OWNER/DEVELOPER
CARTER ENGINEERING CONSULTANTS, INC.	HEARD COUNTY BOARD OF COMMISSIONERS
1010 COMMERCE DRIVE	201 PARK AVENUE
BOGART, GA 30622	FRANKLIN, GA 30217
CONTACT: BRIAN KIMSEY, P.E.	CONTACT: FELICIA ADAMS
PHONE: 770.725.1200	706-675-382
BRIAN@CARTERENGINEERING.COM	FELICIAADAMS@HEARDCOUNTYGA.COM

JURISDICTION	HEARD COL
	365 JOE STEPHENS R
PROPERTY LOCATION	FRANKLIN, GA 3
PARCEL NUMBER	0052
CURRENT ZONING	GC (GENERAL COMMERCIAL DIST
PROPOSED ZONING	GC (GENERAL COMMERCIAL DIST
OVERLAY DISTRICT	N
EXISTING USE	FIRE STAT
PROPOSED USE	FIRE STAT
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NO
	FRONT: 60-I
REQUIRED BUILDING SETBACKS	SIDE: 15-l
	REAR: 15-I
MAXIMUM LOT COVERAGE	y
MINIMUM LANDSCAPE	,
MAXIMUM BUILDING HEIGHT	40-1
SANITARY SEWER SERVICE	ON SITE SANIT
WATER SERVICE	HEARD COU
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0 ⁻
FEMA FIRM DATE	08/19/
FEMA SFHA ZONE	ZOI

UNDERGROUND UTILITY DISCLAIMER:
THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD
INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT
WARRANT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUC THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND NOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER CONSTRUCTION.

GSWCC Level II Certification

ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

5 GA 30217 EPARTMENT S ROAD - FRANKLIN, 6 DEVELOPMENT DE TENS F SITE

SHEET TITLE: EXISTING SITE / DEMO PLAN

PROJECT NAME:

HEARD COUNTY

SHEET NUMBER: C 3.0

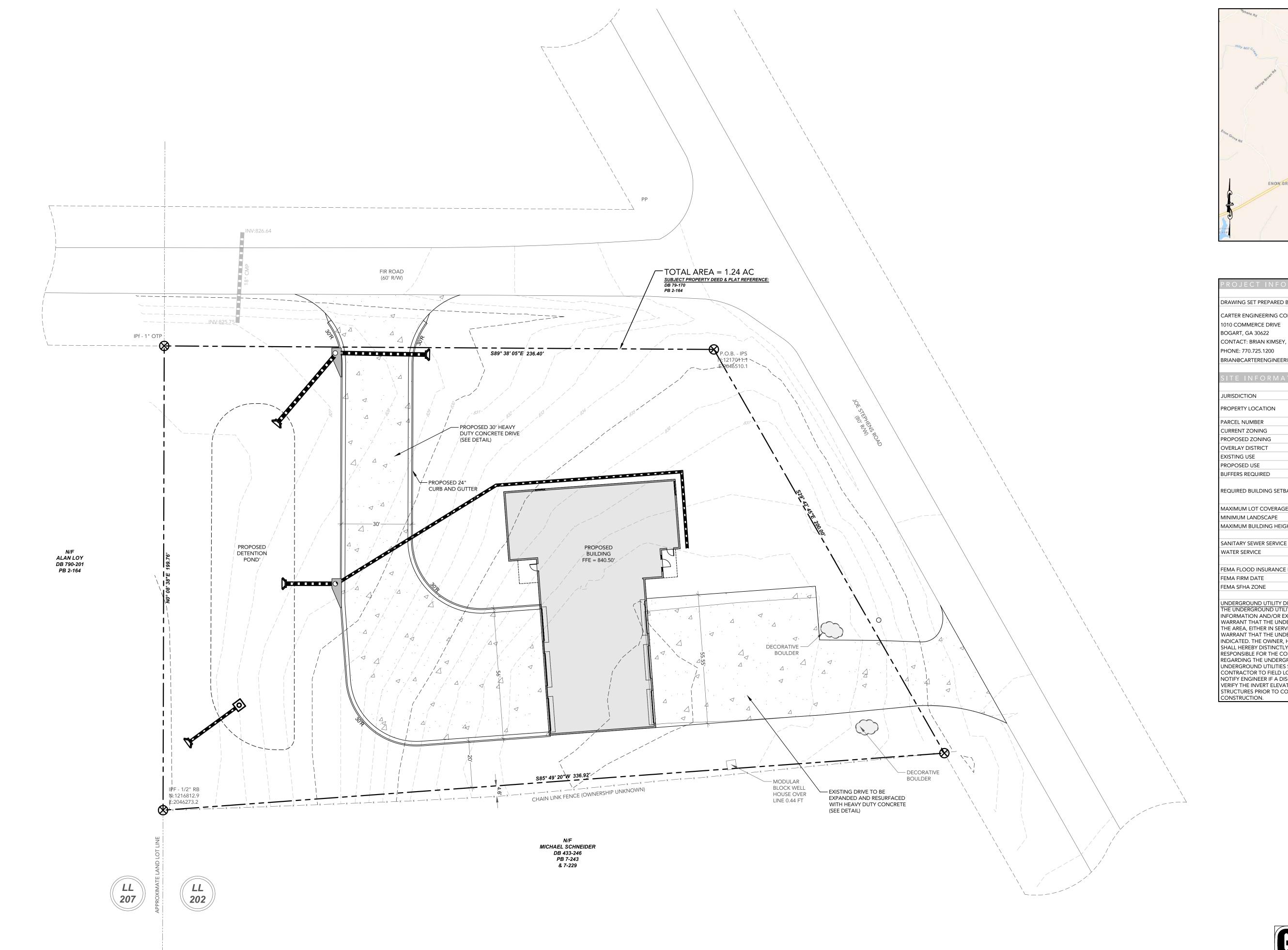
PROJECT NUMBER: 23001HCG

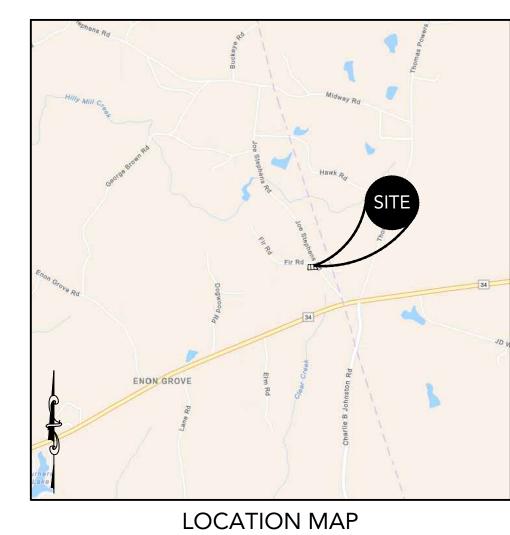
01.16.24

GRAPHIC SCALE SCALE: 1" = 20'

GRID NORTH

Know what's below Call before you dig





DRAWING SET PREPARED BY:	OWNER/DEVELOPER
CARTER ENGINEERING CONSULTANTS, INC.	HEARD COUNTY BOARD OF COMMISSIONERS
1010 COMMERCE DRIVE	201 PARK AVENUE
BOGART, GA 30622	FRANKLIN, GA 30217
CONTACT: BRIAN KIMSEY, P.E.	CONTACT: FELICIA ADAMS
PHONE: 770.725.1200	706-675-382
BRIAN@CARTERENGINEERING.COM	FELICIAADAMS@HEARDCOUNTYGA.COM

JURISDICTION	HEARD COU
	365 JOE STEPHENS R
PROPERTY LOCATION	FRANKLIN, GA 3
PARCEL NUMBER	0052
CURRENT ZONING	GC (GENERAL COMMERCIAL DIST
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTR
OVERLAY DISTRICT	N
EXISTING USE	FIRE STAT
PROPOSED USE	FIRE STAT
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NO
	FRONT: 60-F
REQUIRED BUILDING SETBACKS	SIDE: 15-F
	REAR: 15-F
MAXIMUM LOT COVERAGE	*
MINIMUM LANDSCAPE	*
MAXIMUM BUILDING HEIGHT	40-F
SANITARY SEWER SERVICE	ON SITE SANIT
WATER SERVICE	HEARD COU
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0°
FEMA FIRM DATE	08/19/
FEMA SFHA ZONE	ZOI

UNDERGROUND UTILITY DISCLAIMER:
THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD
INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT
WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRESS ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND NOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER CONSTRUCTION.

GSWCC Level II Certification No. 00000003007



CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

5 GA 30217 EPARTMENT S ROAD - FRANKLIN, 6 DE ENS F

SITE

SHEET TITLE:

DEVELOPMENT

SITE PLAN

PROJECT NAME:

HEARD COUNTY

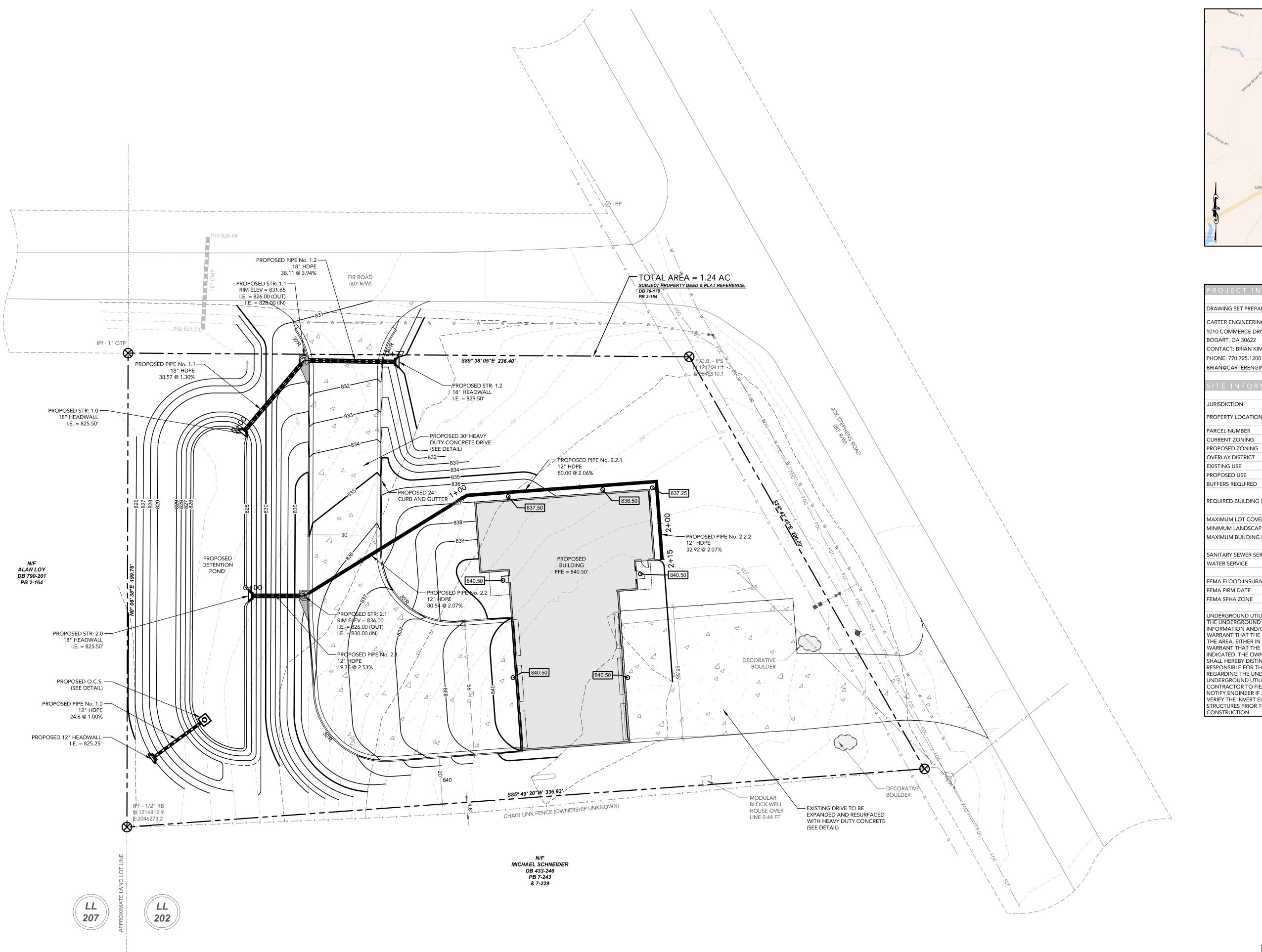
SHEET NUMBER: C 4.0

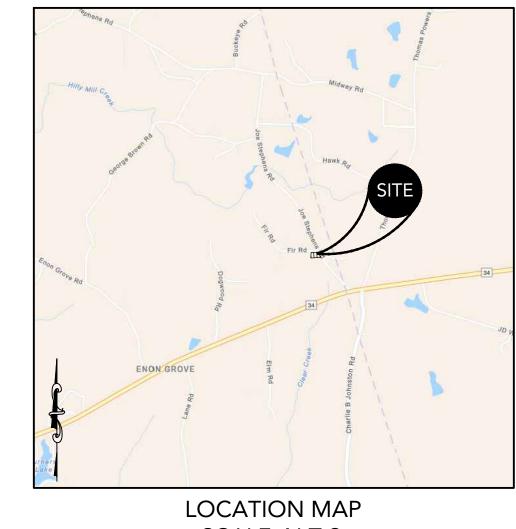
PROJECT NUMBER: 23001HCG

01.16.24

Know what's below Call before you dig GRAPHIC SCALE SCALE: 1" = 20'

GRID NORTH



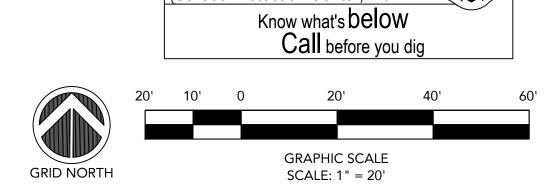


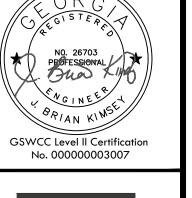
DRAWING SET PREPARED BY:	OWNER/DEVELOPER
CARTER ENGINEERING CONSULTANTS, INC.	HEARD COUNTY BOARD OF COMMISSIONERS
1010 COMMERCE DRIVE	201 PARK AVENUE
BOGART, GA 30622	FRANKLIN, GA 30217
CONTACT: BRIAN KIMSEY, P.E.	CONTACT: FELICIA ADAMS
PHONE: 770.725.1200	706-675-382
BRIAN@CARTERENGINEERING.COM	FELICIAADAMS@HEARDCOUNTYGA.COM

JURISDICTION	HEARD COU
PROPERTY LOCATION	365 JOE STEPHENS RO
PROPERTY LOCATION	FRANKLIN, GA 30
PARCEL NUMBER	0052 (
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTR
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTR
OVERLAY DISTRICT	NO
EXISTING USE	FIRE STAT
PROPOSED USE	FIRE STAT
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NOF
	FRONT: 60-F
REQUIRED BUILDING SETBACKS	SIDE: 15-F
	REAR: 15-F
MAXIMUM LOT COVERAGE	*
MINIMUM LANDSCAPE	*
MAXIMUM BUILDING HEIGHT	40-F
SANITARY SEWER SERVICE	ON SITE SANIT.
WATER SERVICE	HEARD COU
FEMA FLOOD INSURANCE RATE MAP NO.	13149C01
FEMA FIRM DATE	08/19/2
FEMA SFHA ZONE	ZON

THE UNDERGROUND UTILITY DISCLAIMER:

THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION EGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND NOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER CONSTRUCTION.







CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

> **5** GA 30217 EPARTMENT S ROAD - FRANKLIN, 6 DE IENS F

DEVELOPMENT SITE

SHEET TITLE:

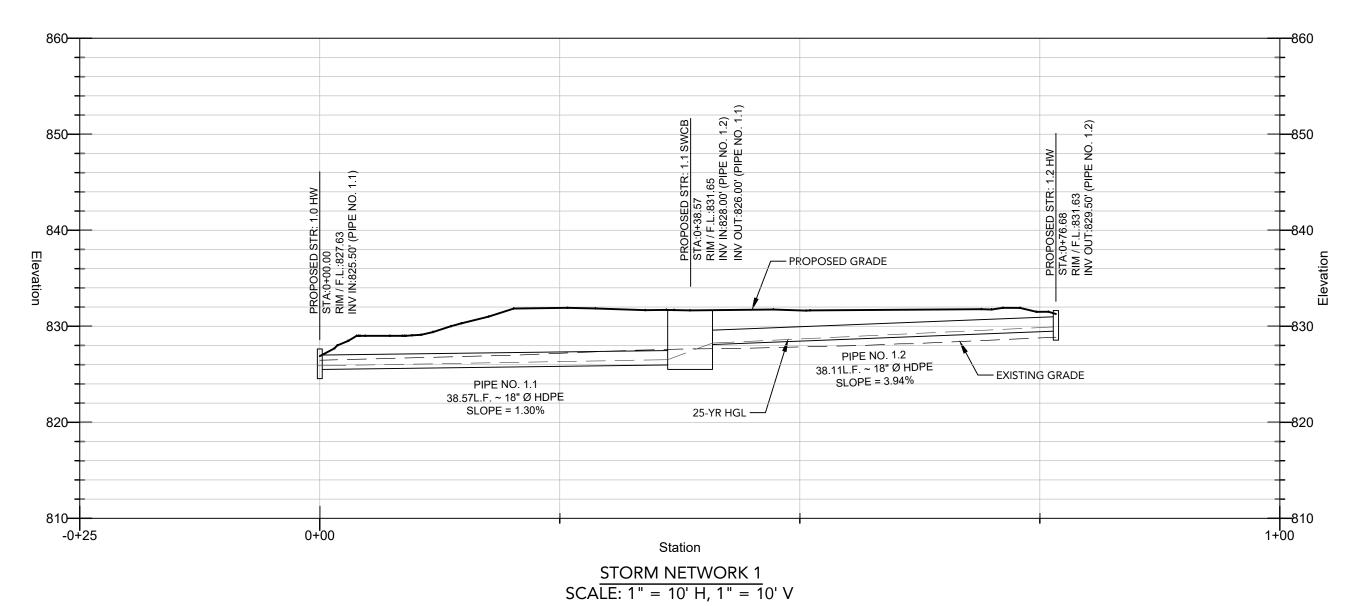
GRADING PLAN

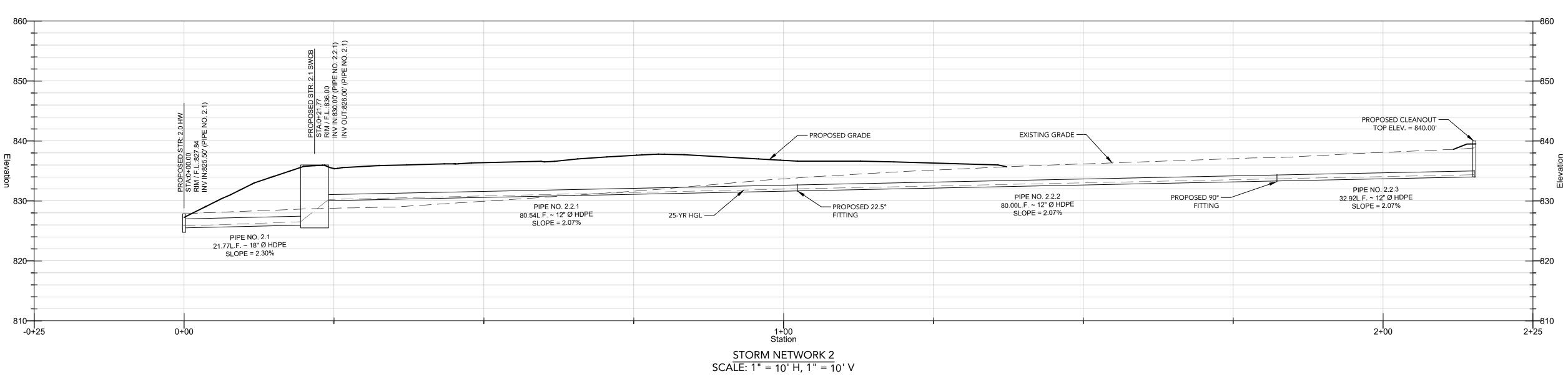
PROJECT NAME:

HEARD COUNTY

SHEET NUMBER: C 5.0

PROJECT NUMBER: 23001HCG





	Stormwater Summary Table - 25-Year Design Frequency														
Line ID	Line Size	Line Length	Invert Dn	Invert Up	Line Slope	HGL Dn	HGL Up	Inlet ID	Incr Q (CIA)	Flow Rate	Velocity (Downstream)	Drainage Area	Runoff Coefficient	Inlet Time of Concentration	Pipe Manning's n
	(in)	(ft)	(ft)	(ft)	(%)	(ft)	(ft)		(cfs)	(cfs)	(ft/s)	(ac)	(C)	(min)	
Pipe No. 1.1	18	38.57	825.50	826.00	1.30	825.89	826.52	1.1	0.68	1.91	5.24	0.09	0.81	5.00	0.012
Pipe No. 1.2	18	38.11	828.00	829.50	3.94	828.25	829.93	1.2	1.34	1.34	7.00	0.48	0.30	5.00	0.012
Pipe No. 2.1	18	21.77	825.50	826.00	2.30	825.83	826.52	2.1	1.47	1.88	6.39	0.18	0.88	5.00	0.012
Pipe No. 2.2	12	80.54	830.00	831.67	2.07	830.24	832.02	22.5°	0.00	0.71	4.85	0.00	0.00	0.00	0.012
Pipe No. 2.2.1	12	80.00	831.67	833.32	2.06	832.02	833.69	90°	0.00	0.77	3.12	0.00	0.00	0.00	0.012
Pipe No. 2.2.2	12	32.92	833.32	834.00	2.07	833.69	834.37	со	0.80	0.80	3.06	0.09	0.95	5.00	0.012

		ST	ORMSEWER ST STORM N		ABLE			
STRUC [*] NAM	_	Г	DETAILS:	STRUCTURE HEIGHT:	STRUCTURE DESCRIPTION:			
C.C).		1 / F.L. = 0.97' 34.00' (PIPE NO. 2.2.3)	6.00'	STRUCTURE SIZE = 6" STRUCTURE TYPE: 6" C.O.			
1.0			/ F.L. = 827.63' 25.50' (PIPE NO. 1.1)	4.14'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW			
1.1		INV IN = 8	/ F.L. = 831.65' 28.00' (PIPE NO. 1.2) 826.00' (PIPE NO. 1.1)	5.65'	STRUCTURE SIZE = 48" STRUCTURE TYPE: SWCB			
1.2			/ F.L. = 831.63' 829.50' (PIPE NO. 1.2)	4.63'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW			
2.0	١		/ F.L. = 827.84' 25.50' (PIPE NO. 2.1)	4.50'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW			
2.1		INV IN = 83	/ F.L. = 836.00' 80.00' (PIPE NO. 2.2.1) 826.00' (PIPE NO. 2.1)	10.00'	STRUCTURE SIZE = 48" STRUCTURE TYPE: SWCB			
			STORMSEWEI STORM N		E			
PIPE NAME:	SIZE	LENGTH	I.E. (DOWN)	I.E. (UF	P)	SLOPE	MATERIAL	
1.2	18" Ø	38.11'	828.00' (STR: 1.1)	829.50' (STF	R: 1.2)	3.94%	HDPE	
1.1	18" Ø	38.57'	825.50' (STR: 1.0)	826.00' (STF	R: 1.1)	1.30%	HDPE	
2.2.3	12" Ø	32.92'	833.32' (STR: 90 DEG)	834.00' (STR	: C.O.)	2.07%	HDPE	
		1			1	i		

2.2.2 | 12" Ø | 80.00' | 831.67' (STR: 22.5 DEG) | 833.32' (STR: 90 DEG) | 2.07% | HDPE | 2.2.1 | 12" Ø | 80.54' | 830.00' (STR: 2.1) | 831.67' (STR: 22.5 DEG) | 2.07% | HDPE

826.00' (STR: 2.1) 2.30% HDPE

2.1 | 18" Ø | 21.77' | 825.50' (STR: 2.0)

BLOCK	ISSUE REVISION DATE & DESCRIPTION	01.16.24 - CLIENT REVIEW							
REVISION BLOCK	ISSUE	1	2	3	4	5	9	7	





CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

PLANS

FIRE DEPARTMENT 365 JOE STEPHENS ROAD - FRANKLIN, DEVELOPMENT SITE

SHEET TITLE:

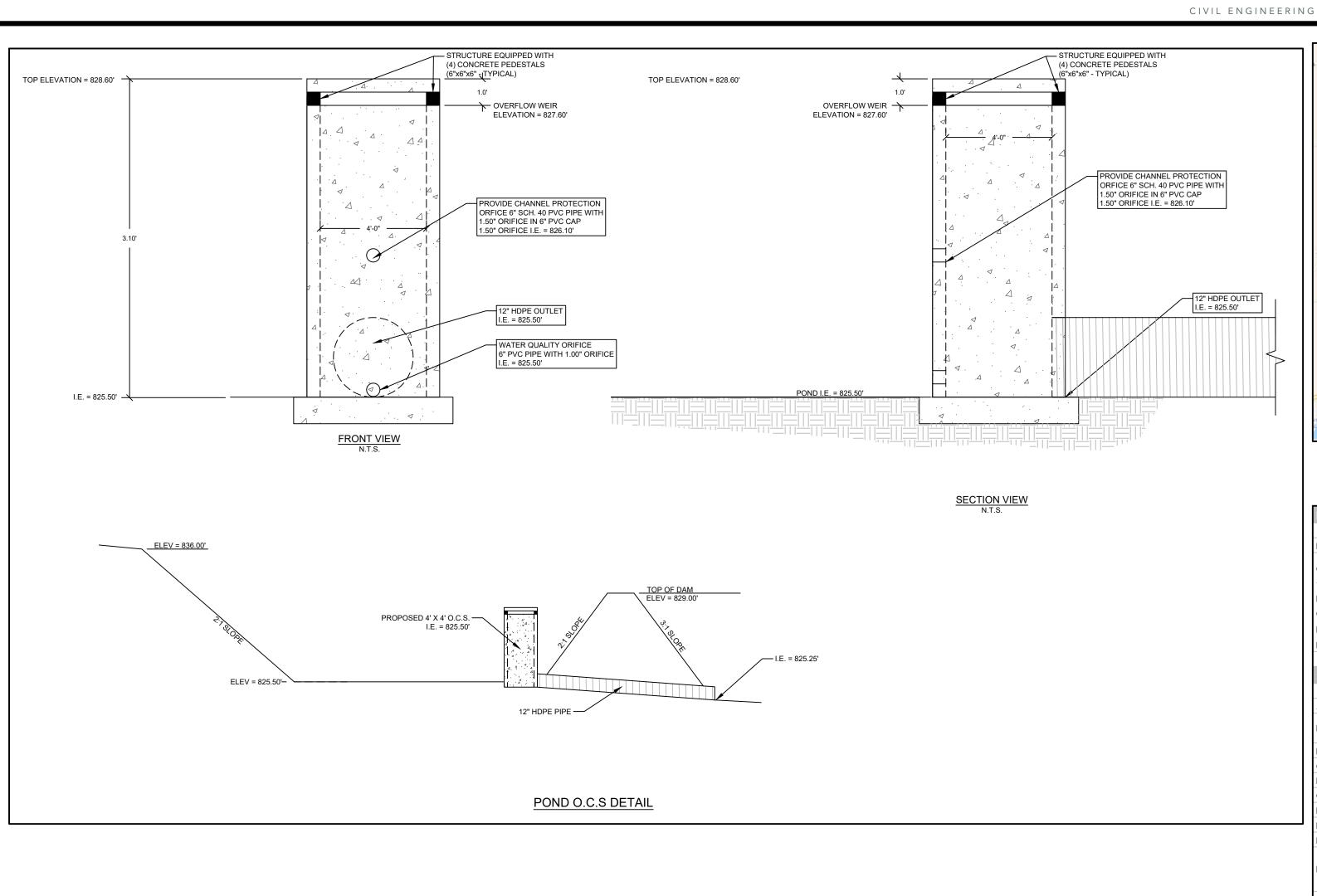
PROJECT NAME:

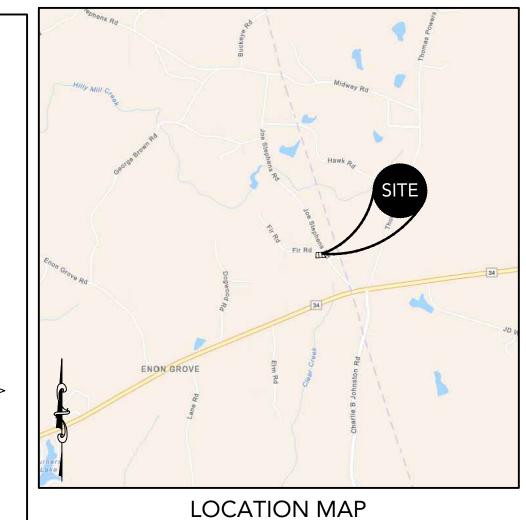
STORM PROFILES

HEARD COUNTY

SHEET NUMBER: C 5.1

PROJECT NUMBER: 23001HCG





LOCATION MAP SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY:	OWNER/DEVELOPER
CARTER ENGINEERING CONSULTANTS, INC.	HEARD COUNTY BOARD OF COMMISSIONERS
1010 COMMERCE DRIVE	201 PARK AVENUE
BOGART, GA 30622	FRANKLIN, GA 30217
CONTACT: BRIAN KIMSEY, P.E.	CONTACT: FELICIA ADAMS
PHONE: 770.725.1200	706-675-3821
BRIAN@CARTERENGINEERING.COM	FELICIAADAMS@HEARDCOUNTYGA.COM

JURISDICTION	HEARD COUNTY
DDODEDTY LOCATION	365 JOE STEPHENS ROAD
PROPERTY LOCATION	FRANKLIN, GA 30217
PARCEL NUMBER	0052 0069
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRICT)
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRICT)
OVERLAY DISTRICT	NONE
EXISTING USE	FIRE STATION
PROPOSED USE	FIRE STATION
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NORTH)
	FRONT: 60-FEET
REQUIRED BUILDING SETBACKS	SIDE: 15-FEET
	REAR: 15-FEET
MAXIMUM LOT COVERAGE	*10%
MINIMUM LANDSCAPE	*10%
MAXIMUM BUILDING HEIGHT	40-FEET
SANITARY SEWER SERVICE	ON SITE SANITARY
WATER SERVICE	HEARD COUNTY
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0180C
FEMA FIRM DATE	08/19/2010
FEMA SFHA ZONE	ZONE X

UNDERGROUND UTILITY DISCLAIMER:
THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD
INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT
WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN
THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT
WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION
INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS
SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT
RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION
REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO
UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE
CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND
NOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL
VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER
STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER
CONSTRUCTION.





CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

DEVELOPMENT PLAN
FOR
FIRE DEPARTMENT 5
DE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
STORMWATER
MANAGEMENT

PLAN
POJECT NAME:

PROJECT NAME:

HEARD COUNTY

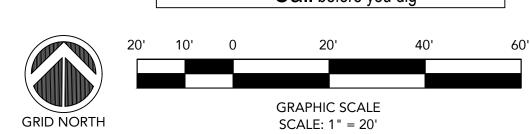
SHEET NUMBER: C 6.0

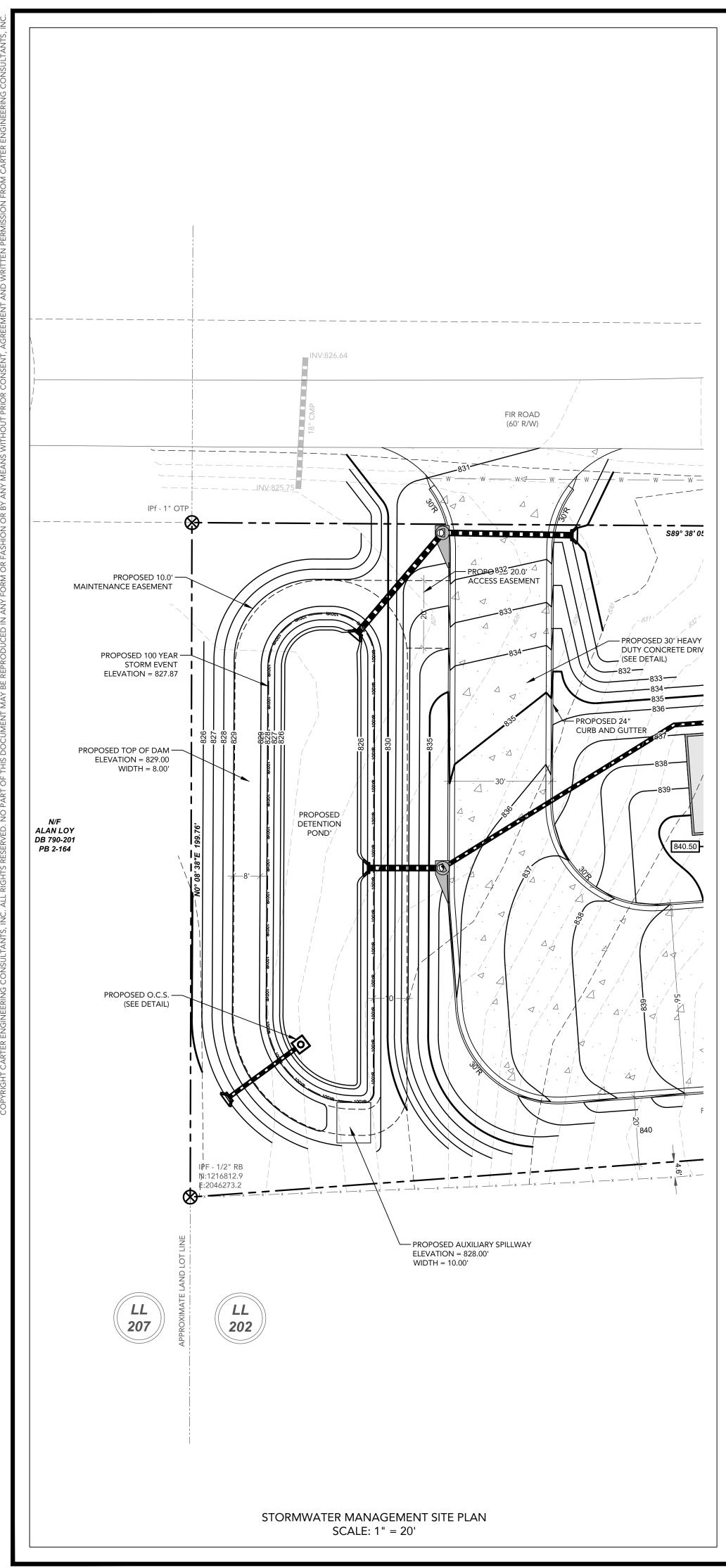
PROJECT NUMBER: 23001HCG

O1.16.24

Utilities Protection Center, Inc.

Know what's below
Call before you dig





JNDERGROUND UTILITY DISCLAIMER: THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION EGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND IOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER

1. SOILS INFORMATION PER REPORT BY CARTER ENGINEERING CONSULTANTS 2. ACCEPTANCE RATE = 325 S.F. / BEDROOM (SEE SOIL REPORT) FOR PRIMARY SYSTEM. 3. DRAINFIELD TRENCH WIDTH MINIMUM OF 3 FEET WITH SPACING OF 8 FEET. REQUIREMENTS, SPECIFICATIONS AND POLICIES OF THE DEPARTMENT OF ENVIRONMENTAL

LOCATION MAP SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY:	OWNER/DEVELOPER
CARTER ENGINEERING CONSULTANTS, INC.	HEARD COUNTY BOARD OF COMMISSIONERS
1010 COMMERCE DRIVE	201 PARK AVENUE
BOGART, GA 30622	FRANKLIN, GA 30217
CONTACT: BRIAN KIMSEY, P.E.	CONTACT: FELICIA ADAMS
PHONE: 770.725.1200	706-675-382
BRIAN@CARTERENGINEERING.COM	FELICIAADAMS@HEARDCOUNTYGA.COM

JURISDICTION	HEARD COUN
PROPERTY LOCATION	365 JOE STEPHENS RO
PROPERTY LOCATION	FRANKLIN, GA 302
PARCEL NUMBER	0052 00
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRIC
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRIC
OVERLAY DISTRICT	NO
EXISTING USE	FIRE STATIO
PROPOSED USE	FIRE STATIO
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NOR
	FRONT: 60-FE
REQUIRED BUILDING SETBACKS	SIDE: 15-FE
	REAR: 15-FE
MAXIMUM LOT COVERAGE	*1
MINIMUM LANDSCAPE	*1
MAXIMUM BUILDING HEIGHT	40-FE
SANITARY SEWER SERVICE	ON SITE SANITA
WATER SERVICE	HEARD COUN

HEALTH, HEARD COUNTY, GEORGIA

Know what's below Call before you dig

GRAPHIC SCALE GRID NORTH SCALE: 1" = 20'

ABSORPTION/DRAINFIELD CALCULATIONS: PER GA MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS - SECTION J:

PRIMARY SYSTEM: SEPTIC TANK CALCULATIONS - Fire Station 5

150 GPD/BEDROOM* 3 BEDROOM = 450 GPD1. PERCOLATION RATE 345 S.F./BEDROOM 2. AREA 345 S.F./BEDROOM * 3 BEDROOMS 1,035 S.F. 3. LENGTH 1035 S.F. / 3 F.T. 345 L.F. 4. CHAMBER FACTOR 345 L.F. 224.25 L.F. 5. DRAINFIELD LENGTH 225 L.F.

ACTUAL INSTALLATION: 1. SEPTIC TANK:

GAL TANK 1,500 228 TOTAL L.F. 2. INSTALLED LENGTH:

TOTAL L.F. 3. REPLACEMENT LENGTH: * *NOTE: REPLACEMENT AREA TOTAL LENGTH CALCULATIONS ARE THE SAME AS PRIMPARY SYSTEM CALCULATIONS

TOTAL AREA = 1.24 AC

SUBJECT PROPERTY DEED & PLAT REFERENCE:

UNDERGROUND

ELECTRIC LINE

EXISTING OVERHEAD —

BLOCK WELL

HOUSE OVER

LINE 0.44 FT

EXISTING OVERHEAD NOWER LINE

ROPOSED PHONE/ DATA/
TELECOMMUNICATION LINE TO BUILDING

(COORDINATE WITH APPROPRIATE UTILITY

- PROPOSED UNDERGROUND ELECTRIC (COORDINATE WITH APPROPRIATE

EXISTING WATER MAIN

- EXISTING FIBER OPTIC

- EXISTING FIBER-OPTIC

BOULDER

- PROPOSED FIRE SERVICE WATER TAP CONTRACTOR SHALL PROVIDE TAPPING SLEEVE AND VALVE.

BETWEEN "ANN STON &

— FIRE HYDRANT T.B.M - FLANGE BOLT

ALABAMA" EL:839.47

UTILITY COMPANY)

FIR ROAD

(60' R/W)

PROPOSED 500 GAL

DUAL PUMP TANK

PROPOSED 1,500 GAL

PROPOSED 6" SANITARY LINE INVERT = 836.25'

IPf - 1" OTP

ALAN LOY DB 790-201

PB 2-164

LL 207

CARTER ENGINEERING CONSULTANTS, INC J. Brian Kimsey, PE 1010 COMMERCE DR. ~ BOGART, GA 30622

Phone: 770-725-1200 ~ e-mail: brian@carterengineering.com

SOIL REPORT

SOIL BORING PROPERTIES

HIGH WATER

TABLE

PHONE NUMBER:

GMD: LAND LOT 202, DISTRICT 3

LOT NUMBER(S):

ABSORPTION RATE

AT RECOMMENDED

TRENCH DEPTH

DATE: JANUARY 09, 2024

TRENCH DEPTH

LEVEL 3

CODE

SUITABILITY

CODE

HEARD

BEDROCK OR HARD

SAPROLITE

(inches)

HEARD COUNTY BOC

SITE ADDRESS: 365 JOE STEPHENS RD.

INTENSITY LEVEL OF INVESTIGATION:

COUNTY:

OWNER:

SUBDIVISION:

SOIL SERIES

PROPOSED REPLACEMENT-SEPTIC : (CONVENTIONAL SYSTEM) AREA

SEPARATOR

EXISTING 100' -WELL SETBACK

SUITABILITY CODE DESCRIPTIONS AND GENERAL NOTES

These soils are suitable for installation of on-site systems with proper system design, installation, and

system design and installation must be approved by the local Environmental Health Specialist.

system design and installation must be approved by the local Environmental Health Specialist.

EXPLANATION

maintenance. Position of the site or other soil and landscape considerations may require the drainfield area to be greater than the minimum and/or the drainfield design to require equal distribution or level field installation.

These soils have bedrock limitations and are not suitable for installation of a conventional on-site system without

special design or installation. Properties of the soil and site may require the drainfield area to be greater than the minimum and/or the drainfield design to require equal distribution or level field installation. Non-conventional

Because of soft bedrock at a shallow depth, these soils typically are not suitable for installation of a conventional

on-site system. Hydraulic properties of the rock vary, however, and in some areas, the soft rock has a percolation

the rock and site suitability. On-site system installation before home construction may be required to ensure the

system can be properly installed. Properties of the soil and site may require the drainfield area to be greater than the minimum and/or the drainfield design to require equal distribution or level field installation. Non-conventional

rate suitable for on-site system installation. Intensive investigations are required to evaluate hydraulic properties of

DRAINFIELD LENGTH = 345LF

PROPOSED PRIMARY SEPTIC —

(CHAMBER SYSTEM) AREA DRAINFIELD LENGTH = 228 LF

> PROPOSED 4" SEWER STUB I.E. = 837.50

- PROPOSED 6" FIRE SERVICE

LINE TO BUILDING

LINE TO BUILDING

- PROPOSED 6"SEWER STUB

CHAIN LINK FENCE (OWNERSHIP UNKNOWN)

MICHAEL SCHNEIDER DB 433-246 PB 7-243

& 7-229

PROPOSED 2" WATER

PROJECT NAME: HEARD COUNTY

SHEET NUMBER: C 7.0

UTILITY PLAN

PROJECT NUMBER: 23001HCG

01.16.24

G G

MEN.

OPMENT

SHEET TITLE:

GSWCC Level II Certification No. 000000003007

ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200

www.carterengineering.com

13149C0180C 08/19/201

ZONE X

- 2. ABSORPTION LINE LATERALS SHALL BE SPACED A MINIMUM OF SEVEN FEET APART, CENTER
- TO CENTER. ABSORPTION TRENCHES SHALL BE NO MORE THAN 36 INCHES WIDE.
- 4. THE MINIMUM DEPTH OF AGGREGATE SHALL BE TWELVE INCHES WITH SIZE INCHES BELOW THE PERFORATED PIPE AND FILLED TO TWO INCHES ABOVE THE PIPE.
- 5. PERFORATED PIPE SHALL BE LAID IN THE CENTER OF THE TRENCH WITH THE PERFORATIONS ORIENTED TOWARD THE BOTTOM OF THE TRENCH.

ABSORPTION LINE DETAIL

PERFORATED PIPE DETAIL

ALL PERFORATED PIPE USED FOR GRAVITY FLOW CARRIAGE AND

STRENGTH IN ACCORDANCE WITH ASTM - F810 STANDARDS FOR

RIGID PIPING AND ASTM - F-667 FOR CORRUGATED SEMI-RIGID

MANUFACTURER SHALL BE PLAINLY MARKED, EMBOSSED OR

ENGRAVED SHOWING THE MANUFACTURER'S NAME, TYPE OF PIPE

MATERIALAND SHOWING THE PRODUCT MEETS APPLICABLE ASTM

ADDITION, A PAINTED OR OTHER CLEAR LINE SHALL BE MARKED ON

PERFORATED PIPE SHALL HAVE A MINIMUM INTERNAL DIAMETER OF

STANDARDS AND A BEARING LOAD OF 1,500 LBS PER FOOT. IN

4. ALL FOUR INCH DIAMETER OR GREATER PIPE SHALL HAVE AT LEAST

DIRECTLY OPPOSITE THE TOP MARKING. SPACING OF HOLES

TWO ROWS OF HOLES BETWEEN $\frac{1}{2}$ INCH AND $\frac{3}{4}$ INCH IN DIAMETER, EVENLY SPACED AND PLACED WITHIN AN ARC OF 120 DEGREES ON

THE BOTTOM OF THE PIPE WITH A THIRD HOLE OF SAME SIZE BEING

LONGITUDINALLY SHALL BE EVERY 4 INCHES ON CENTERS ALONG

2. EACH STANDARD SECTION OF PIPE AS SUPPLIED BY THE

3. FOR CONVENTIONAL SYSTEMS, ALL GRAVITY FLOW USAGE

EACH SECTION OF PIPE TO DENOTE THE TOP.

DWG #500P | FLEMINGTON PRECAST & SUPPLY, L.L.C

FOUR INCHES.

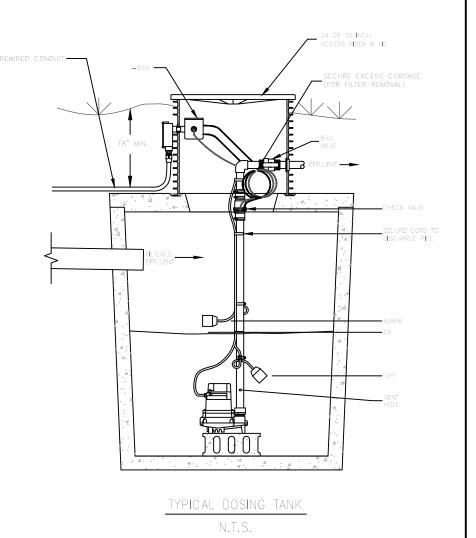
THE LENGTH OF THE PIPE.

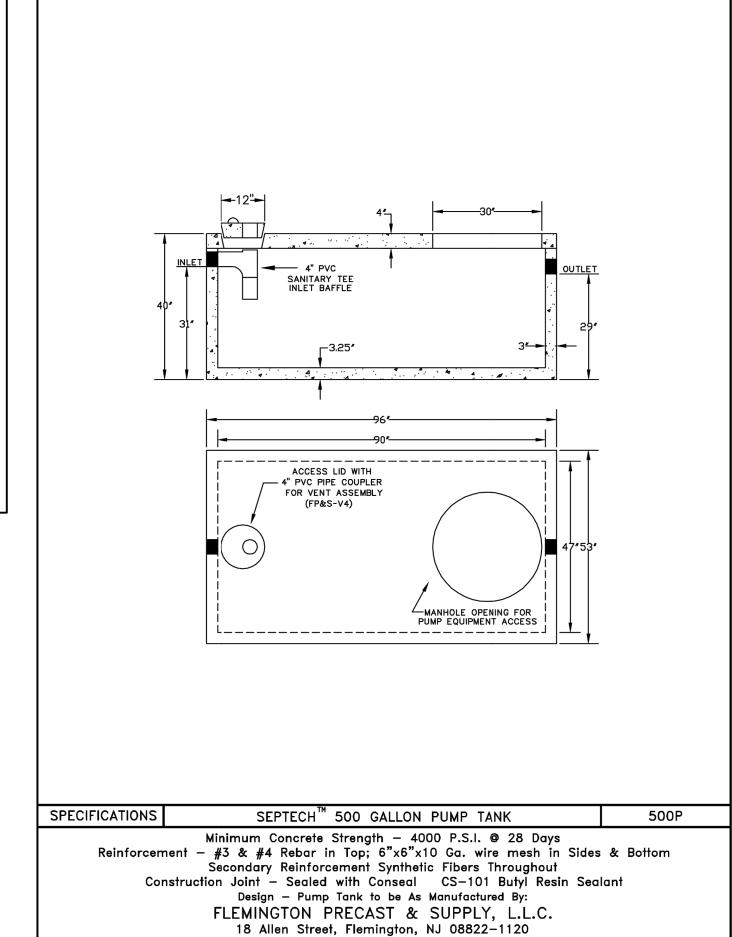
OR OTHER SUCH APPLICATIONS SHALL MEET 1,500 LB CRUSH

DISTRIBUTION OF EFFLUENT WITHIN LATERAL TRENCHES, MOUNDS

SIDE VIEW

CROSS-SECTION VIEW





Ph. (908) 782-3246 Fax (908) 782-1981



Quick4."

The Quick4® Plus **High Capacity** Chamber

Quick4 Plus™ Series

The Quick4 Plus High Capacity Chamber offers maximum strength through its two center structural columns. This chamber can be installed in a 36-inch-wide trench. Like the original line of Quick4 chambers, it offers advanced contouring capability with its Contour Swivel Connection™ which permits turns up to 15-degrees, right or left. It is also available in four-foot lengths to provide optimal installation flexibility. The Quick4 Plus All-in-One 12 Endcap, and the Quick4 Periscope are available with





34"W x 53"L x 14"H (864 mm x 1346 mm x 356 mm)

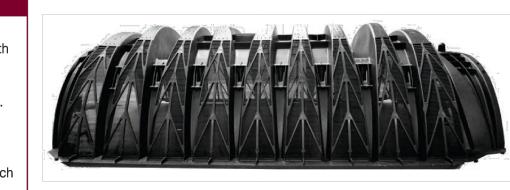
8.0" (203 mm), 12.7" (323 mm)

Effective Length 48" (1219 mm) **Louver Height**

12" (305 mm) **Storage Capacity** 54 gal (204 L)

Invert Height 0.8" (20 mm), 5.3" (135 mm),

APPROVED in



Quick4 Plus High Capacity Chamber Benefits:

• Two center structural columns offer increased stability and superior strength Advanced contouring connections

- Latching mechanism allows for quick installation
- Four-foot chamber lengths are easy to handle and install
- Supports wheel loads of 16,000 lbs/axle with 12" of cover



May be used at the end of chamber

Mid-trench connection feature allows

construction of chamber rows with

center feed, as an alternative to inletting at the ends of chamber rows

Center-feed connection allows for

Pipe connection options include

easy installation of serial distribution

row for an inlet/outlet or can be

installed mid-trench

systems

sides, ends or top



Quick4 Plus All-in-One 12 Endcap | Quick4 Plus All-in-One Periscope

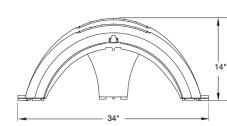
 Allows for raised invert installations 180° directional inletting

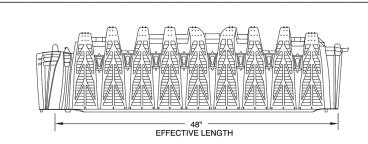
12" raised invert is ideal for serial

Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)

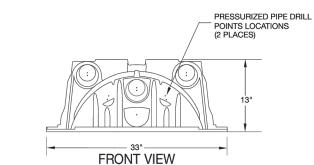


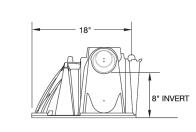






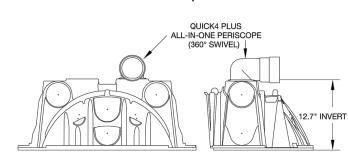
Quick4 Plus All-in-One 12 Endcap





SIDE VIEW

Quick4 Plus All-in-One Periscope



INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY (a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator

will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation (b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE.

THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE (c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions. (d) No representative of Infiltrator has the authority to change or extend this Limited Warranty.



P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001 www.infiltratorwater.com

No warranty applies to any party other than the original Holder. The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc. © 2013 Infiltrator Water Technologies, LLC. All rights reserved. Printed in U.S.A.

ontact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

ONSITE SEWAGE MANAGEMENT SYSTEM PUMP SIZE CALCULATION

SYSTEM TYPE: Conventional System

General Information DATE: 1/16/2024 **CLIENT: Heard County** SITE ADDRESS 365 Joe Stephens Road

Section F: Pump Selection

Use the following pump or equivalent:

PUMP HYDRAULIC DESIGN Section A: Static Lift Max Lift Required By Pump + 5ft

Section B: Major Friction Loss **Total Headloss** Nominal Size (in) Material (fps) 0.2 0.0 0.0 N/A 0.0 0.0 0.0 0.0

Section C: Minor Friction Loss **Total Headloss**

Method 1. 10% of Section A & B . Method 1 Subtotal Method 2. Fitting Equalivalent Length

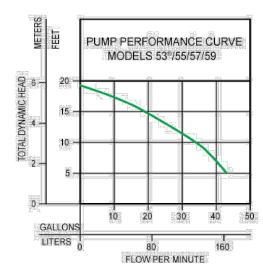
Fitting Size Fitting Type Number 0.2 0.0 0.0 0.0

Method 2 Subtotal Minor Friction Loss shall be the greater of Method 1 & Method 2 Method 1 Subtotal Section D: Pressure at Outlet **Total Headloss** Desired Pressure @ Outlet =

Total Headloss A. Static Lift B. Major Losses . 0.5 0.2 C. Minor Losses 0.5 D. Pressure at Outlet

Total Dynamic Head 12.0

Pump Performance Curves Performance Curve, 50 Series: 60 Hz 009897



Performance Curve Models 53 – 59, 009897





ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 -: 770.725.1204

www.carterengineering.com

C) OPMENT ШΖ

SHEET TITLE:

UTILITY DETAILS

PROJECT NAME:

HEARD COUNTY

SHEET NUMBER: C 7.1 PROJECT NUMBER:

23001HCG

#11 PROJECT RECEIVING WATERS

INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.

THE RECEIVING WATERS OF THIS PROJECT ARE AN UNNAMED TRIBUTARY TO HILLY MILL CREEK #12 SITE VISIT CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

Q Bus King	01.16.24
BRIAN KIMSEY, P.E. P.E. #26703	DATE

E&SC CERTIFICATION NUMBER 00000003007

\$13 SOIL & EROSION CONTROL BMP CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION, I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO GAR 100001.

Q. But King	01.16.24
RIAN KIMSEY, P.E. .E. #26703	DATE

E&SC CERTIFICATION NUMBER 000000003007

#14 CERTIFY INSPECTION

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFERS AS MEASURED FORM THE JURISDICTIONAL

#16 BUFFER ENCROACHMENT

THERE ARE NO WARRANTED OR NECESSARY ENCROACHMENTS TO ANY BUFFERS. VARIANCE IS NOT REQUIRED.

DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS

#17 AMENDMENT/REVISION STATEMENT

AMENDMENTS/ REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL

WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOBSITE WILL BE

OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING. PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS. THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURE IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FROM EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FORM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTION TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE. TO PREVENT WASTES FORM CONTRIBUTION TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

#19 SEDIMENT CONTROL ON-SITE

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

#20 EROSION CONTROL MEASURES MAINTAINED AT ALL TIMES

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

#21 EXPOSED DISTURBED AREAS

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY

#22 IMPAIRED STREAM SEGMENT

CONSTRUCTION ACTIVITY DOES NOTE DISCHARGE INTO AN IMPAIRED STREAM SEGMENT. THE CONSTRUCTION ACTIVITY IS NOT WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.

#24 CONCRETE WASH DOWN

THIS PROJECT DOES NOT ALLOW CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ON THE PROJECT SITE. THESE ACTIONS ARE ONLY ALLOWED AT SPECIFIED LOCATIONS WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

#25 BMP REMEDIATION FOR PETROLEUM SPILLS AND WASTE

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT, EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM, EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND

CONCRETE TRUCK WASHING - CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE AT THE SPECIFIED LOCATION

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCG MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND
- PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. • MATERIAL AND EQUIPMENT, NECESSARY OF SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND,
- SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPLIT PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL
- BE CONTACTED WITHIN 24 HOURS AT 1 800 424 8802. • FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1 - 800 - 424 -
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS. THE GEORGIA EPD WILL BE CONTACTED WITHIN 24

-FOR SPILLS LESS THAT 25 GALLONS AND NO SURFACE WATER IMPACTS. THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE **CONTACTED AS REQUIRED**

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF OIL IS

STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT). THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND

COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL. #26 POLLUTANT CONTROL AFTER CONSTRUCTION IS COMPLETED

ALL DISTURBED AREAS WILL BE PERMANENTLY STABILIZED ONCE CONSTRUCTION ACTIVITY IS COMPLETED. ALL RUNOFF FROM THE IMPERVIOUS AREAS ON SITE WILL FLOW TO THE PROPOSED INLETS AND BE CAPTURED WITHIN THE UNDERGROUND DETENTION SYSTEM. A HYDRODYNAMIC SEPARATOR HAS BEEN PROPOSED FOR THE SITE FOR POLLUTANT CONTROL

#27 COVER FOR BUILDING MATERIALS

THE CONTRACTOR SHALL LOCATE ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTES, AND OTHER MATERIALS IN A LOCATION FREE FROM STORMWATER RUNOFF. IN ADDITION, THE CONTRACTOR SHALL PROTECT THESE MATERIALS FROM PRECIPITATION BY COVERING WITH PLASTIC SHEETING OR A TEMPORARY ROOF THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD.

POTENTIAL SOURCES OF STORM WATER POLLUTION INCLUDE: SEDIMENT DISPLACEMENT FROM EARTHWORK AND EROSION. CONSTRUCTION TRASH FROM CONSTRUCTION WORKERS AND EQUIPMENT LEAKAGE / SPILLAGE OF FUEL, OIL, AND FLUIDS FROM CONSTRUCTION EQUIPMENT. THE PROPOSED TEMPORARY SEDIMENT TRAPS AND SILT FENCE WILL REDUCE POLLUTANTS IN STORMWATER DISCHARGES DURING CONSTRUCTION. NO ADVERSE IMPACTS ARE EXPECTED DUE TO THE NATURE OF THIS CONSTRUCTION ACTIVITY.

#29 ACTIVITY SCHEDULE

	Н	MONTHS (2024)					\neg		
TASK DESCRIPTION:		MARCH	APRIL	MAY	JUNE	JULY	AUGUST		
INSPECT AND MAINTAIN ALL EROSION COMTROL BMP									\Box
CONSTRUCTION EXIT AND PERIMETER SILT FENCE									\Box
CLEARING & GRUBBING		W							\Box
DEMO									\Box
ROUGH GRADING									
temporary stabilization (grassing)									
CURB AND GUTTER									
FINAL STABILIZATION									
PAVING									
FINAL LANDSCAPING, GRASSING, CLEANING OF STORM DRAINS									
DISPOSITION OF TEMPORARY SEDIMENT CONTROL MEASURES									\dashv

A. PERMITTEE REQUIREMENTS

- FACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE LINDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY. WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTION S TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT

#31 SAMPLING FREQUENCY

- THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM AFTER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE IS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CEASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
- A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FORM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOUSE AS DEFINED IN THIS PERMIT * (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION:
- B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.

C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGERS TO A RECEIVING WATER OR FROM AN OUTFALL AREA NOT PROPERLY DESIGNED. INSTALLED. AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITH TOW (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FORM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OF EXCEEDS 0.5 INCH DURRING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND

MAINTAINED D. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D4.A(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION

DOES NOT RELIEVE THE PERMITTEE OF A ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A). (B). OR (C) ABOVE: AND E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTE MAY CHOOSE TO MEET THE REQUIREMENT OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT, SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT, UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- A. THE RAINFALL AMOUNT, DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- C. THE DATE(S) ANALYSES WERE PERFORMED; D. THE TIME(S) ANALYSES WERE INITIATED:
- E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
- H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU." AND I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

- THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT THE DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI: A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT: C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART
- IV.A.5. OF THIS PERMIT: D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT
- E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT: F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT: AND

G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.

- COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS.
- REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

#33 STORMWATER SAMPLING

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CER PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-R-92-001 "

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED. INSTALLED. AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 1000001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.2 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF < 1.0 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PORT 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

PER NPDES PERMIT, GAR 100001, "SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MISEXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANSED THOROUGHLY TO AVOID CONTAMINATION. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED.

#34 SAMPLING POINTS AND NTU REQUIREMENTS

APPENDIX B Nephelometric Turbidity Unity (NTU) TABLES

COLD WATER (Trout Stream)

Surface Water Drainage Area, Square Miles

		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
SITE SIZE,	25.01-50	25	25	25	50	75	100	300	500
ACRES	50.01-100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100
			WARM	WATER (SUP	PORTING WA	ARM WATER	FISHERIES)		
			S	urface Wateı	Drainage Ar	ea, Square M	\iles		
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750

			Sı	urface Water	[.] Drainage Ar	ea, Square <i>N</i>	\iles		
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
	1.00-10	75	150	200	400	<i>7</i> 50	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
SITE SIZE,	25.01-50	50	50	100	100	200	300	750	750
ACRES	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

39 & 40 ALTERNATIVE BMP'S

N/A - THERE ARE NO ALTERNATIVE BMP'S ASSOCIATED WITH THIS PROJECT.

41 & 42 WETLANDS, STATE WATERS, BUFFERS

FEMA FLOOD INSURANCE RATE MAP NO. 13149C0180C, DATED 08/19/2010 INDICATES THAT THIS PROPERTY IS LOCATED IN ZONE X.

#45 PEAK DISCHARGE FLOW

PEAK DISCHARGE PRIOR TO CONSTRUCTION: $Q_{100} = 7.36$ CFS PEAK DISCHARGE AFTER CONSTRUCTION IS COMPLETE: Q100 = 6.89 CFS

#47 SOILS CHART

SOIL SERIES TABLE				
MAPPING UNIT & SOIL NAME	SOIL TEXTURE	ERODIBILITY (K)	STRUCTURE	PERMEABILITY (IN/HR)
AmB - Appling sandy loam	Sandy loam	0.24	Granular	1.63
AmC - Appling sandy loam	Sandy loam	0.24	Granular	1.63

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST - STAND ALONE CONSTRUCTION PROJECTS SWCD: WEST GEORGIA SWCD BRIAN KIMSEY, P.E. - BRIAN@CARTERENGINEERING.COM Filled Out By Project Name FIRE DEPARTMENT 5 Address 365 JOE STEPHENS ROAD 01.16.24 Date on Plans City/County HEARD COUNTY TO BE SHOWN ON ES&PC PLAN Sheet # Included The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. Level II certification number issued by the Commission, signature and seal of the certified design professional C 8.0 - C 8.1 3. Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office, If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan muat include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter.* C 8.0 4. The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls. C 8.0 5. Provide the name, address, email address, and phone number of primary permittee. 6. Note total and disturbed acreages of the project or phase under construction. C 8.0 C 8.0 7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. 8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. ALL C 8.0 9. Description of the nature of construction activity and existing site conditions. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. C 8.1 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected. 12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit. 13. Design professional's certification statement and signature that the site was visited prior to development of the comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. 14. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. * 15. Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits." 16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required. C 8.0 17. Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." * 18. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." 19. Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." 21. Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." 22. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. * 23. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. 24. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. * C 8.0 25. Provide BMPs for the remediation of all petroleum spills and leaks. C 8.0 26. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. * 27. Description of practices to provide cover for building materials and building products on site. * 28. Description of the practices that will be used to reduce the pollutants in storm water discharges. * Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions C 8.1 of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). 30. Provide complete requirements of Inspections and record keeping by the primary permittee. C 8.0 31. Provide complete requirements of Sampling Frequency and Reporting of sampling results. * C 8.0 32. Provide complete details for Retention of Records as per Part IV.F. of the permit. * C 8.0 33. Description of analytical methods to be used to collect and analyze the samples from each location. * C 8.0 34. Appendix B rationale for NTU values at all outfall sampling points where applicable. * Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a Graphic scale and North arrow. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Map Scale: 1=100' or Larger Scale Contour Intervals: 0.5 or 1; 1 or 2; 2, 5 or 10 39. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov. 40. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. * 41. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. 42. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. HYDRO 43. Delineation and acreage of contributing drainage basins on the project site. HYDRO 44. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. * 45. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

CARTER ENGINEERING P: 770.725.1200 : 770.725.1204

C 8.1

Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

Soil series for the project site and their delineation. C 8.1 The limits of disturbance for each phase of construction. C 8.1

C 8.3

C 8.1

Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the

Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and

Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates

and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year

Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth C 8.3 in the Manual for Erosion and Sediment Control in Georgia.

that seeding will take place and for the appropriate geographic region of Georgia. * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2023



ENGINEERING

1010 COMMERCE DRIVE BOGART, GA 30622

www.carterengineering.com

ШΖ

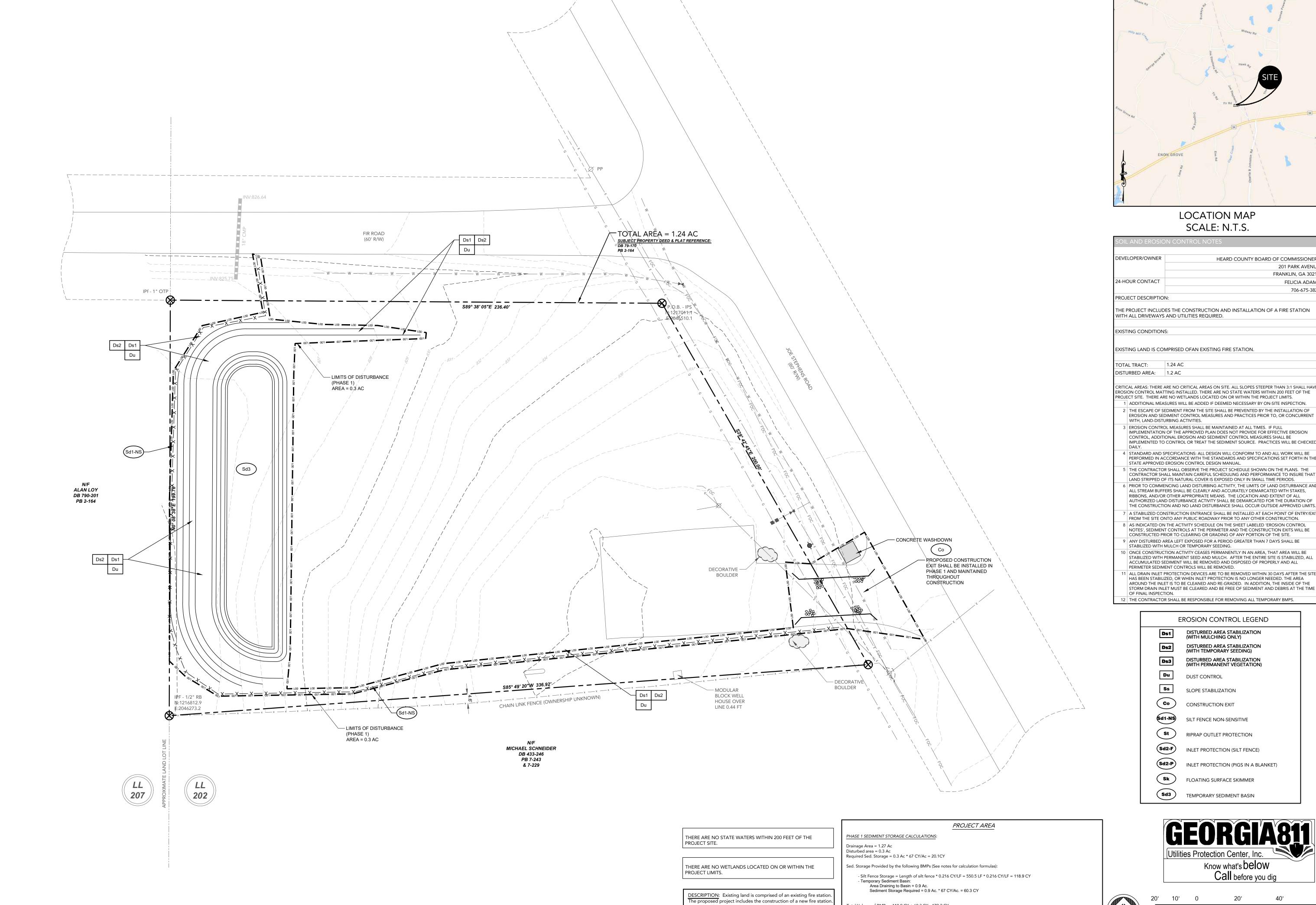
SIT

EROSION **CONTROL NOTES** PROJECT NAME:

HEARD COUNTY

SHEET NUMBER: C 8.0

PROJECT NUMBER: 23001HCG





LOCATION MAP SCALE: N.T.S.

DEVELOPER/OWNER HEARD COUNTY BOARD OF COMMISSIONER 201 PARK AVENU FRANKLIN, GA 3021 24-HOUR CONTACT FELICIA ADAM 706-675-382 PROJECT DESCRIPTION:

THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.

EXISTING LAND IS COMPRISED OFAN EXISTING FIRE STATION.

1.24 AC DISTURBED AREA: 1.2 AC

CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE ROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS. 1 ADDITIONAL MEASURES WILL BE ADDED IF DEEMED NECESSARY BY ON-SITE INSPECTION. 2 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF

- WITH, LAND-DISTURBING ACTIVITIES. B | EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE
- IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED 4 STANDARD AND SPECIFICATIONS: ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE
- PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE APPROVED EROSION CONTROL DESIGN MANUAL.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL TIME PERIODS. ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, AND/OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF
- THE CONSTRUCTION AND NO LAND DISTURBANCE SHALL OCCUR OUTSIDE APPROVED LIMITS. 7 A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY/EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY PRIOR TO ANY OTHER CONSTRUCTION. 8 AS INDICATED ON THE ACTIVITY SCHEDULE ON THE SHEET LABELED 'EROSION CONTROL NOTES', SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXITS WILL BE
- CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING 0 ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE
- STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED. 1 ALL DRAIN INLET PROTECTION DEVICES ARE TO BE REMOVED WITHIN 30 DAYS AFTER THE SITE
- HAS BEEN STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER NEEDED. THE AREA AROUND THE INLET IS TO BE CLEANED AND RE-GRADED. IN ADDITION, THE INSIDE OF THE STORM DRAIN INLET MUST BE CLEARED AND BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF FINAL INSPECTION. 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY BMPS.

EROSION CONTROL LEGEND

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Du DUST CONTROL

Ss SLOPE STABILIZATION

(Co) CONSTRUCTION EXIT

SILT FENCE NON-SENSITIVE

RIPRAP OUTLET PROTECTION INLET PROTECTION (SILT FENCE)

INLET PROTECTION (PIGS IN A BLANKET)

(Sk) FLOATING SURFACE SKIMMER

TEMPORARY SEDIMENT BASIN



GRAPHIC SCALE GRID NORTH

Total Volume of BMPs = 118.9 CY + 60.3 CY= 179.2 CY

CONSTRUCTION DISTURBED AREA SHOWN ON E&SC PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF TH PROPOSED BMP'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMP'S THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.

CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.



GSWCC Level II Certification No. 000000003007

ENGINEERING CARTER ENGINEERING

1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 : 770.725.1204

www.carterengineering.com

C) ПZ

SHEET TITLE:

SITE

E&SC PLAN PHASE

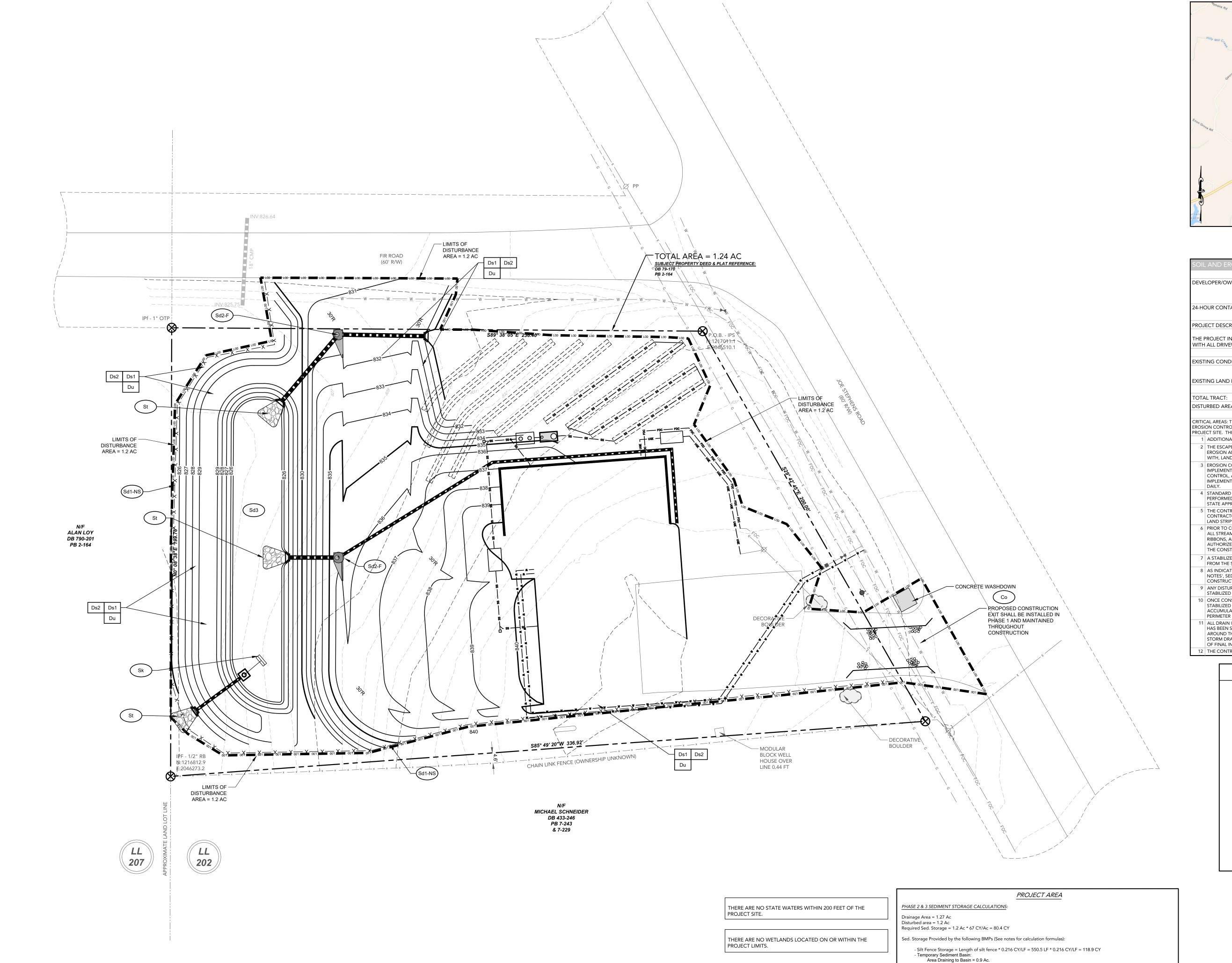
PROJECT NAME: HEARD

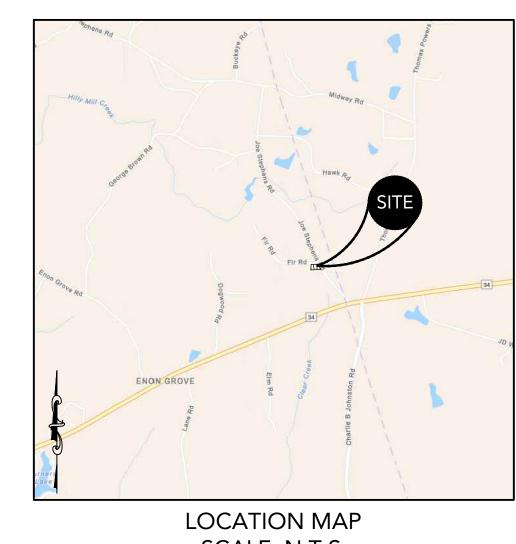
COUNTY SHEET NUMBER:

C 8.1 PROJECT NUMBER:

01.16.24

23001HCG





DEVELOPER/OWNER HEARD COUNTY BOARD OF COMMISSIONER 201 PARK AVENU FRANKLIN, GA 3021 24-HOUR CONTACT FELICIA ADAM 706-675-382 PROJECT DESCRIPTION: THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION

WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.

EXISTING CONDITIONS:

EXISTING LAND IS COMPRISED OFAN EXISTING FIRE STATION.

1.24 AC TOTAL TRACT: DISTURBED AREA: 1.2 AC

CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE ROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES WILL BE ADDED IF DEEMED NECESSARY BY ON-SITE INSPECTION. 2 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF

- EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. B | EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION
- CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED 4 STANDARD AND SPECIFICATIONS: ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE
- PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE APPROVED EROSION CONTROL DESIGN MANUAL.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL TIME PERIODS. ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, AND/OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL
- AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION AND NO LAND DISTURBANCE SHALL OCCUR OUTSIDE APPROVED LIMITS. 7 A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY/EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY PRIOR TO ANY OTHER CONSTRUCTION. 8 AS INDICATED ON THE ACTIVITY SCHEDULE ON THE SHEET LABELED 'EROSION CONTROL
- NOTES', SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXITS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING
- 10 ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.
- 1 ALL DRAIN INLET PROTECTION DEVICES ARE TO BE REMOVED WITHIN 30 DAYS AFTER THE SITE HAS BEEN STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER NEEDED. THE AREA AROUND THE INLET IS TO BE CLEANED AND RE-GRADED. IN ADDITION, THE INSIDE OF THE STORM DRAIN INLET MUST BE CLEARED AND BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF FINAL INSPECTION. 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY BMPS.

EROSION CONTROL LEGEND

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Du DUST CONTROL

Ss SLOPE STABILIZATION

(co) **CONSTRUCTION EXIT**

SILT FENCE NON-SENSITIVE

RIPRAP OUTLET PROTECTION

INLET PROTECTION (SILT FENCE) INLET PROTECTION (PIGS IN A BLANKET)

(Sk) FLOATING SURFACE SKIMMER

Sediment Storage Required = 0.9 Ac. * 67 CY/Ac. = 60.3 CY

CONSTRUCTION DISTURBED AREA SHOWN ON E&SC PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF TH PROPOSED BMP'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMP'S THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.

Total Volume of BMPs = 118.9 CY + 60.3 CY= 179.2 CY

DESCRIPTION: Existing land is comprised of an existing fire station.

CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.

The proposed project includes the construction of a new fire station.

TEMPORARY SEDIMENT BASIN



Call before you dig

GRAPHIC SCALE GRID NORTH SCALE: 1" = 20'

E&SC PLAN PHASE 2 PROJECT NAME: HEARD COUNTY SHEET NUMBER: C 8.2

GSWCC Level II Certification

No. 000000003007

ENGINEERING

CARTER ENGINEERING

BOGART, GA 30622

P: 770.725.1200 : 770.725.1204

1010 COMMERCE DRIVE

www.carterengineering.com

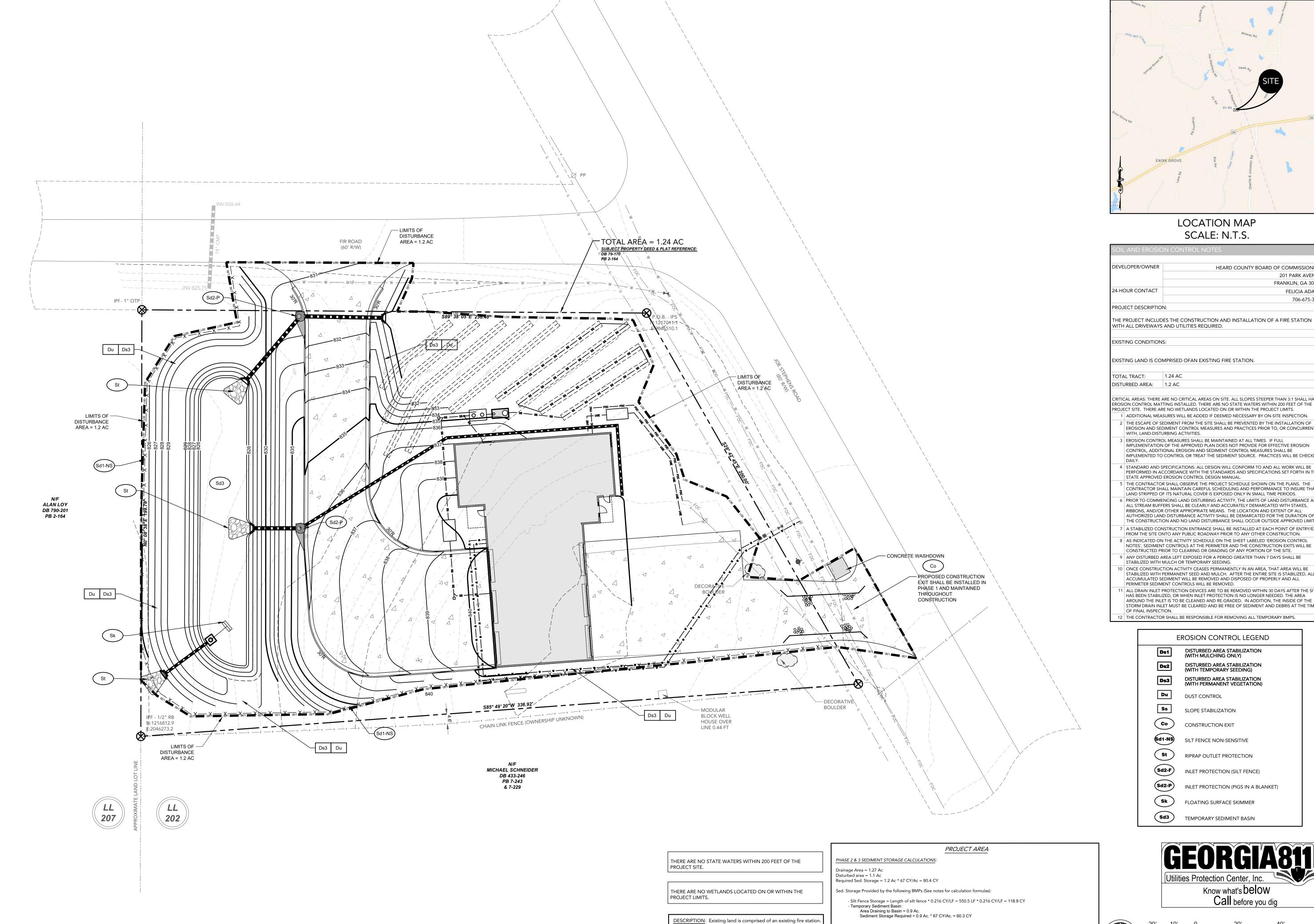
C)

Z М М

SITE

SHEET TITLE:

PROJECT NUMBER: 23001HCG

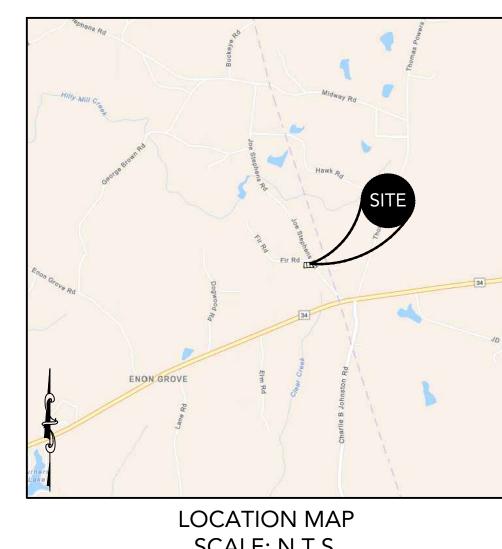


The proposed project includes the construction of a new fire station.

CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.

Total Volume of BMPs = 118.9 CY + 60.3 CY= 179.2 CY

CONSTRUCTION DISTURBED AREA SHOWN ON E&SC PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF TH PROPOSED BMP'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMP'S THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.



SCALE: N.T.S.

DEVELOPER/OWNER HEARD COUNTY BOARD OF COMMISSIONER 201 PARK AVENU FRANKLIN, GA 3021 24-HOUR CONTACT FELICIA ADAM 706-675-382 PROJECT DESCRIPTION:

THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.

EXISTING CONDITIONS:

EXISTING LAND IS COMPRISED OFAN EXISTING FIRE STATION.

1.24 AC DISTURBED AREA: 1.2 AC

CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE ROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES WILL BE ADDED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

- 2 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- B | EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED
- 4 STANDARD AND SPECIFICATIONS: ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE APPROVED EROSION CONTROL DESIGN MANUAL.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL TIME PERIODS. ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, AND/OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL
- THE CONSTRUCTION AND NO LAND DISTURBANCE SHALL OCCUR OUTSIDE APPROVED LIMITS. 7 A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY/EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY PRIOR TO ANY OTHER CONSTRUCTION. 8 AS INDICATED ON THE ACTIVITY SCHEDULE ON THE SHEET LABELED 'EROSION CONTROL
- NOTES', SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXITS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING
- 10 ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.
- 1 ALL DRAIN INLET PROTECTION DEVICES ARE TO BE REMOVED WITHIN 30 DAYS AFTER THE SITE HAS BEEN STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER NEEDED. THE AREA AROUND THE INLET IS TO BE CLEANED AND RE-GRADED. IN ADDITION, THE INSIDE OF THE STORM DRAIN INLET MUST BE CLEARED AND BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF FINAL INSPECTION. 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY BMPS.

EROSION CONTROL LEGEND

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Du DUST CONTROL

SLOPE STABILIZATION

CONSTRUCTION EXIT

RIPRAP OUTLET PROTECTION

INLET PROTECTION (SILT FENCE)

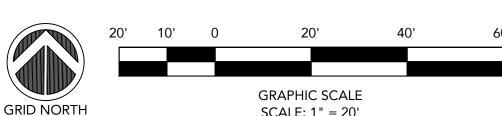
SILT FENCE NON-SENSITIVE

INLET PROTECTION (PIGS IN A BLANKET)

FLOATING SURFACE SKIMMER TEMPORARY SEDIMENT BASIN

Know what's below

Call before you dig



SCALE: 1" = 20'

COUNTY SHEET NUMBER: C 8.3 PROJECT NUMBER: 23001HCG

01.16.24

E&SC PLAN

PHASE 3

HEARD

GSWCC Level II Certification

No. 000000003007

ENGINEERING

CARTER ENGINEERING

BOGART, GA 30622

P: 770.725.1200 : 770.725.1204

OPMEN

SITE

SHEET TITLE:

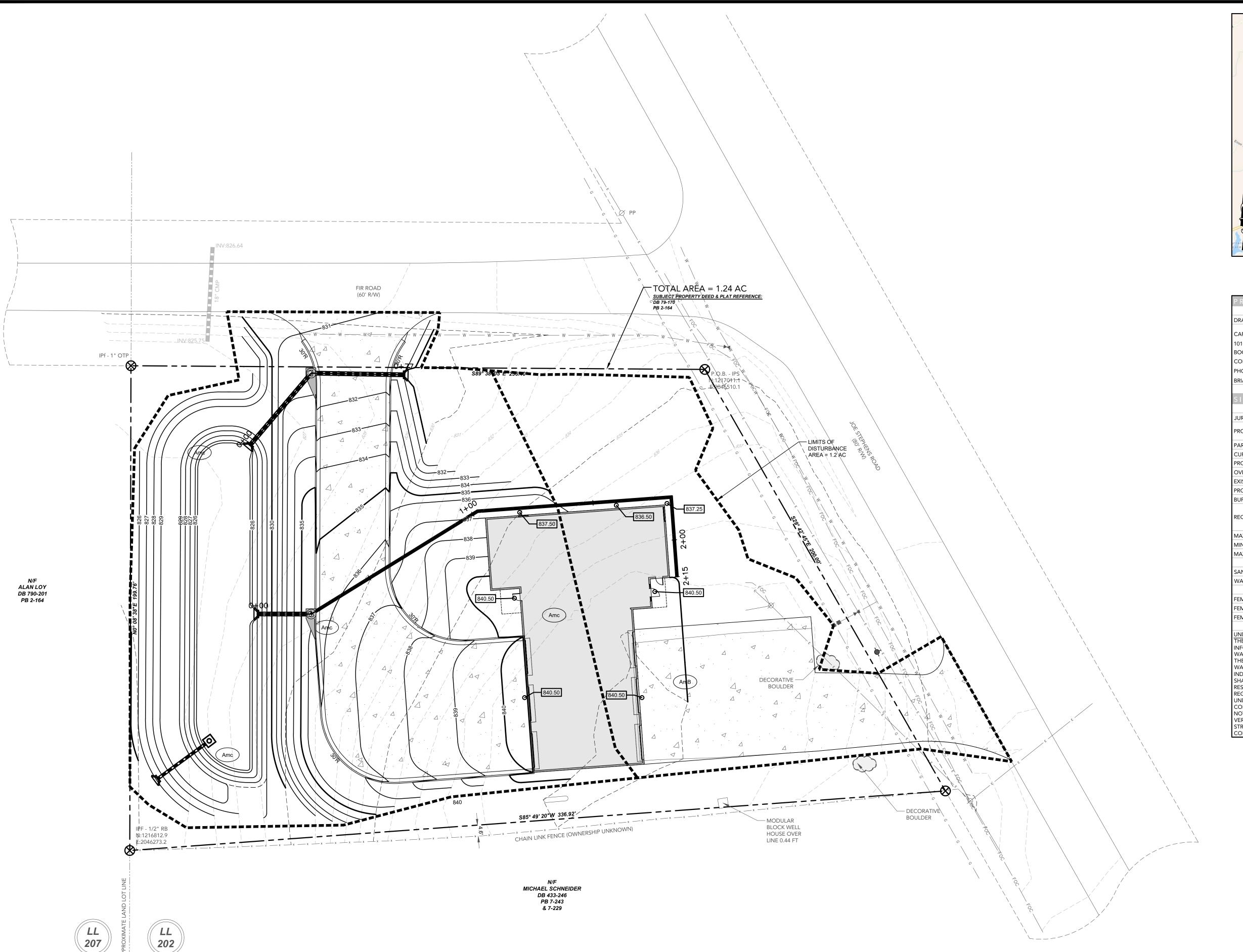
PROJECT NAME:

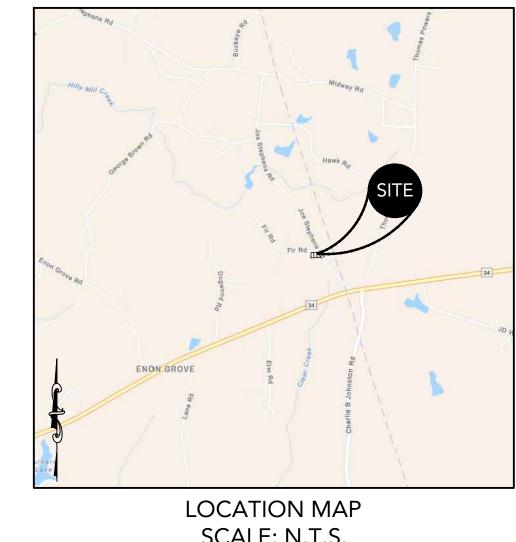
1010 COMMERCE DRIVE

www.carterengineering.com

C)

E Z





DRAWING SET PREPARED BY:	OWNER/DEVELOPER
CARTER ENGINEERING CONSULTANTS, INC.	HEARD COUNTY BOARD OF COMMISSIONERS
1010 COMMERCE DRIVE	201 PARK AVENUE
BOGART, GA 30622	FRANKLIN, GA 30217
CONTACT: BRIAN KIMSEY, P.E.	CONTACT: FELICIA ADAMS
PHONE: 770.725.1200	706-675-3821
BRIAN@CARTERENGINEERING.COM	FELICIAADAMS@HEARDCOUNTYGA.COM

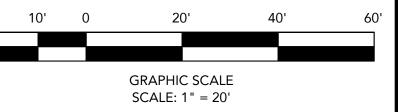
JURISDICTION	HEARD COL
DRODERTY LOCATION	365 JOE STEPHENS R
PROPERTY LOCATION	FRANKLIN, GA 3
PARCEL NUMBER	0052
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTR
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTR
OVERLAY DISTRICT	N
EXISTING USE	FIRE STAT
PROPOSED USE	FIRE STAT
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NO
	FRONT: 60-F
REQUIRED BUILDING SETBACKS	SIDE: 15-F
	REAR: 15-F
MAXIMUM LOT COVERAGE	*
MINIMUM LANDSCAPE	*
MAXIMUM BUILDING HEIGHT	40-f
SANITARY SEWER SERVICE	ON SITE SANIT
WATER SERVICE	HEARD COU
FEMA FLOOD INSURANCE RATE MAP NO.	13149C01
FEMA FIRM DATE	08/19/3
FEMA SFHA ZONE	ZOI

UNDERGROUND UTILITY DISCLAIMER:
THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT EGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND NOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER CONSTRUCTION.

Know what's below Call before you dig

MAPPING UNIT & SOIL NAME SOIL TEXTURE ERODIBILITY (K) STRUCTURE Granular Granular 0.24 AmB - Appling sandy loam Sandy loam Sandy Ioam 0.24 AmC - Appling sandy loam





GSWCC Level II Certification No. 00000003007



CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

5 GA 30217 FMENT FRANKLIN,

DEVELOPMENT DE ENS F SITE

SHEET TITLE:

SOILS MAP

PROJECT NAME:

HEARD COUNTY

SHEET NUMBER:

C 8.4 PROJECT NUMBER:

23001HCG 01.16.24

TEMPORARY AND PERMANENT VEGETATION SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF "THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL Ds2 TEMPORARY GRASSING

MULCH WILL BE SPREAD UNIFORMLY WITHIN 24-HOURS AFTER SEEDING. MULCH SHALL BE USED

DURING MONTHS THAT GRASSING SOULD NOT BE APPLIED BASED ON THE SCHEDULE BELOW.

TEMPORARY GRASSES SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE, BROWN TOP MILLET, OR GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER RATES PER SOILS TEST.
MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY SITE CONDITIONS. TEMPORARY GRASSING IS REQUIRED WHEN DISTURBED AREA IS LEFT EXPOSED MORE THAN 14 DAYS. **SPECIES** PLANTING DATES

APRIL - JUNE AUGUST-DECEMBER **BROWN MILLET** 3 bu./ACRE FEBRUARY-JUNE WEEPING LOVEGRASS 5#/ACRE FEBRUARY-APRIL ANNUAL LESPEDEZA 40#/ACRE SUDAN GRASS 60#/ACRE APRIL-AUGUST SEPTEMBER-DECEMBER WHEAT 3bu./ACRE

LIME AND FERTILIZER AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIALS, FERTILIZER IS

NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL.

Ds3

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION LIMING FERTILIZATION MULCHING AND SEEDING. THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING TO A DEPTH NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND, WITH FERTILIZER AT THE RATE OF 1500#/ACRE AND LIME AT THE RATE OF 2000#/ACRE, THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM AND BE FREE OF ROCKS, CLODS, ROOTS AND WEEDS. FERTILIZER SHALL BE APPLIED PER THE TABLE BELOW. WEATHER PERMITTING, SEEDING SHALL BE DONE WITHIN 24 HOURS OF FERTILIZER APPLICATION. SEED SHALL BE UNIFORMLY SPREAD AT THE RATES SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER SEEDED AREAS AND SHALL ACHIEVE 75% TO 100% SOIL COVER. THE RATE OF APPLICATION SHALL BE DOUBLED ON SLOPES STEEPER THAN 4:1.

PERMANENT GRASSING

GRASSING RATES AND SCHEDULE PLANTING DATES 50#/ACRE MARCH-APRII /

TALL FESCUE AUGUST-OCTOBER SERICEA LESPEDEZA (b) MARCH-JUNE MARCH-JUNE WEEPING LOVE GRASS JAN-FEB/OCT-DEC UNHULLED BERMUDA 10#/ACRE MARCH-JUNE HULLED BERMUDA 10#/ACRE 60#/ACRE APRIL-MARCH

SPECIES

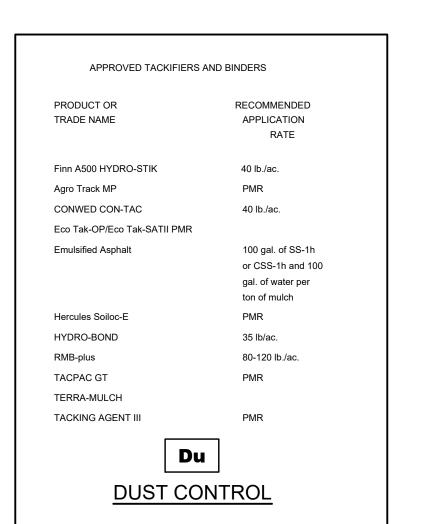
(a) USE A MINIMUM OF 40# SCARIFIED SEED. REMAINDER MAY BE UNSCARIFIED, CLEAN (b) USE EITHER COMMON SERALA, OR INTERSTATE SERICEA LESPEDEZA.

LIMING RATES

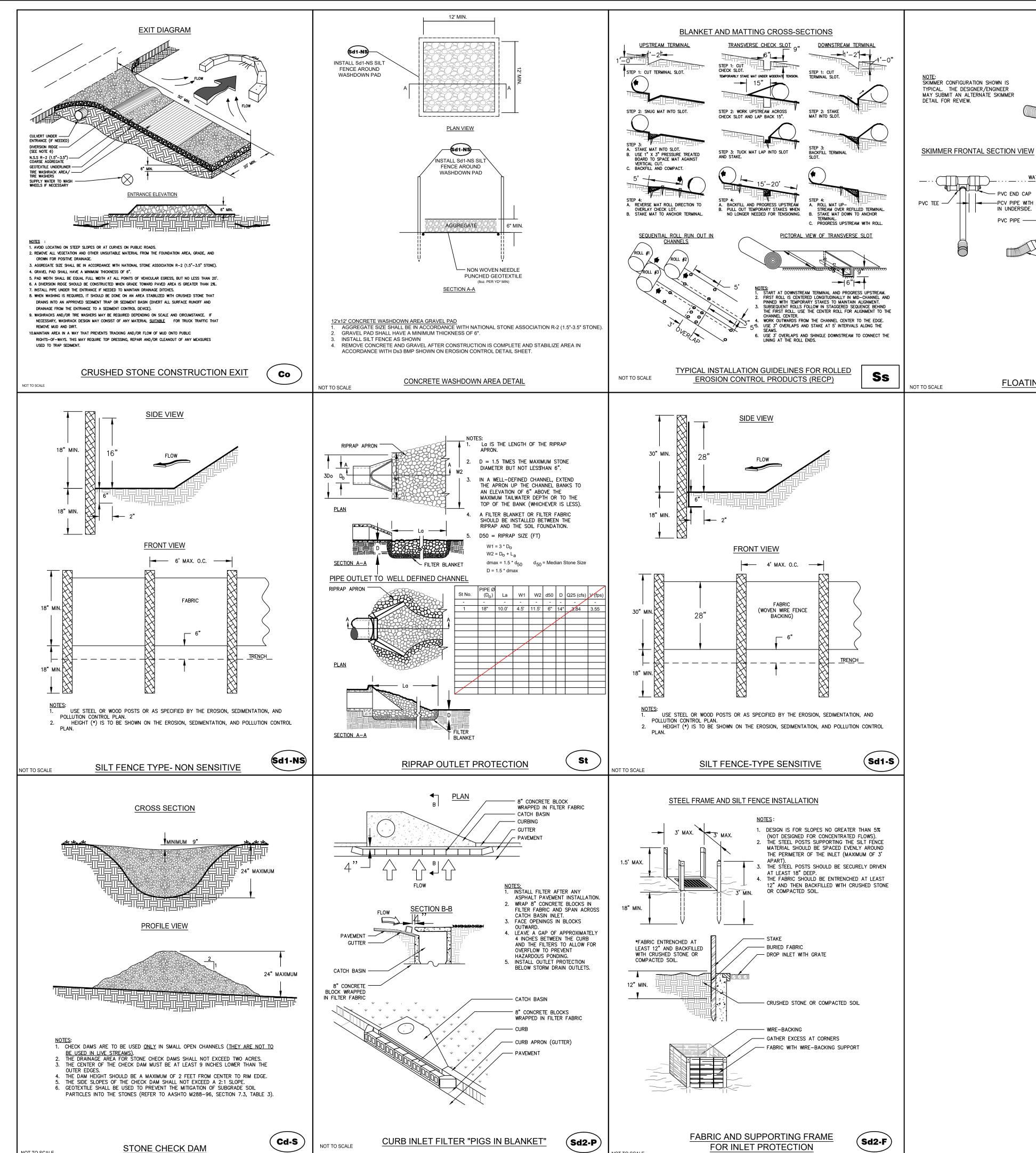
Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

FERTILIZER REQUIREMENTS

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac/ 1/2/ 30
2. Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ - -
3. Ground Covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1300 lbs./ac. 3/ 1300 lbx./ac. 3/ 1100 lbx./ac.	
4. Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	-
5. Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/ 6/ 50-100 lbs./ac. 2/ 30 lbs./ac.
6. Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac. 6/
				Ds1_Ds2_Ds3.dwg



NOT TO SCALE



CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

Sk

SKIMMER PERSPECTIVE

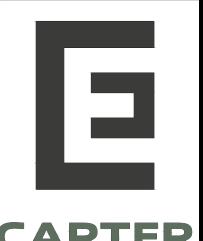
SKIMMER SIDE SECTION VIEW

----PCV PIPE WITH HOLES

FLOATING SURFACE SKIMMER

IN UNDERSIDE.





ENGINEERING CARTER ENGINEERING

1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 -: 770.725.1204

www.carterengineering.com

OPMENT

SIT

C) ШΖ

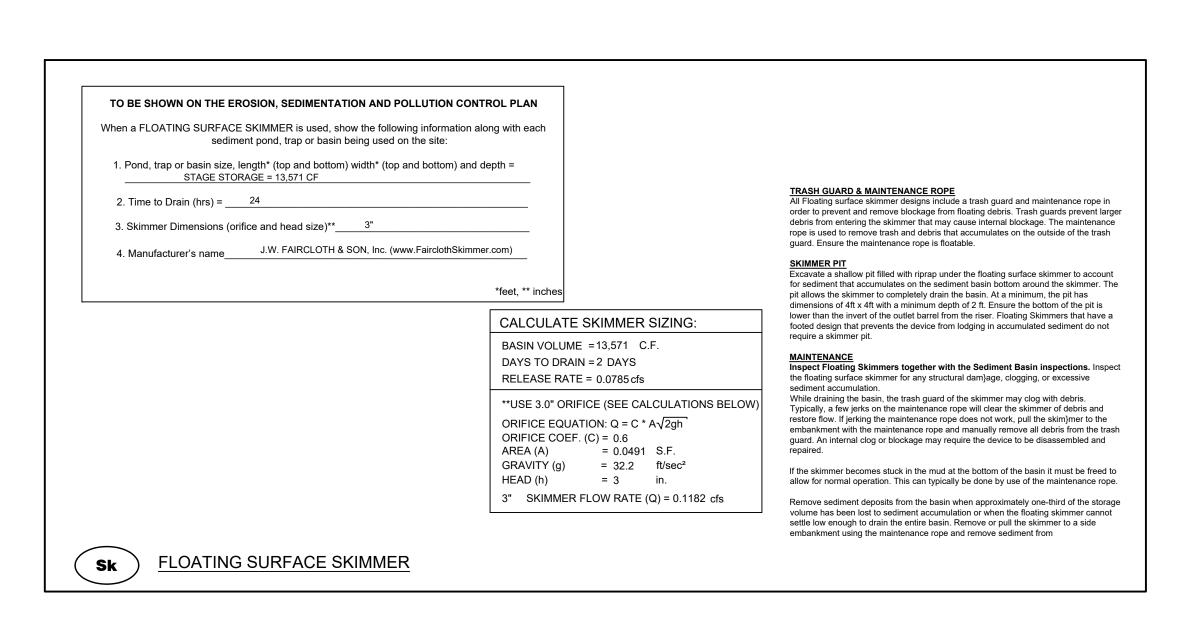
SHEET TITLE: **EROSION CONTROL DETAILS**

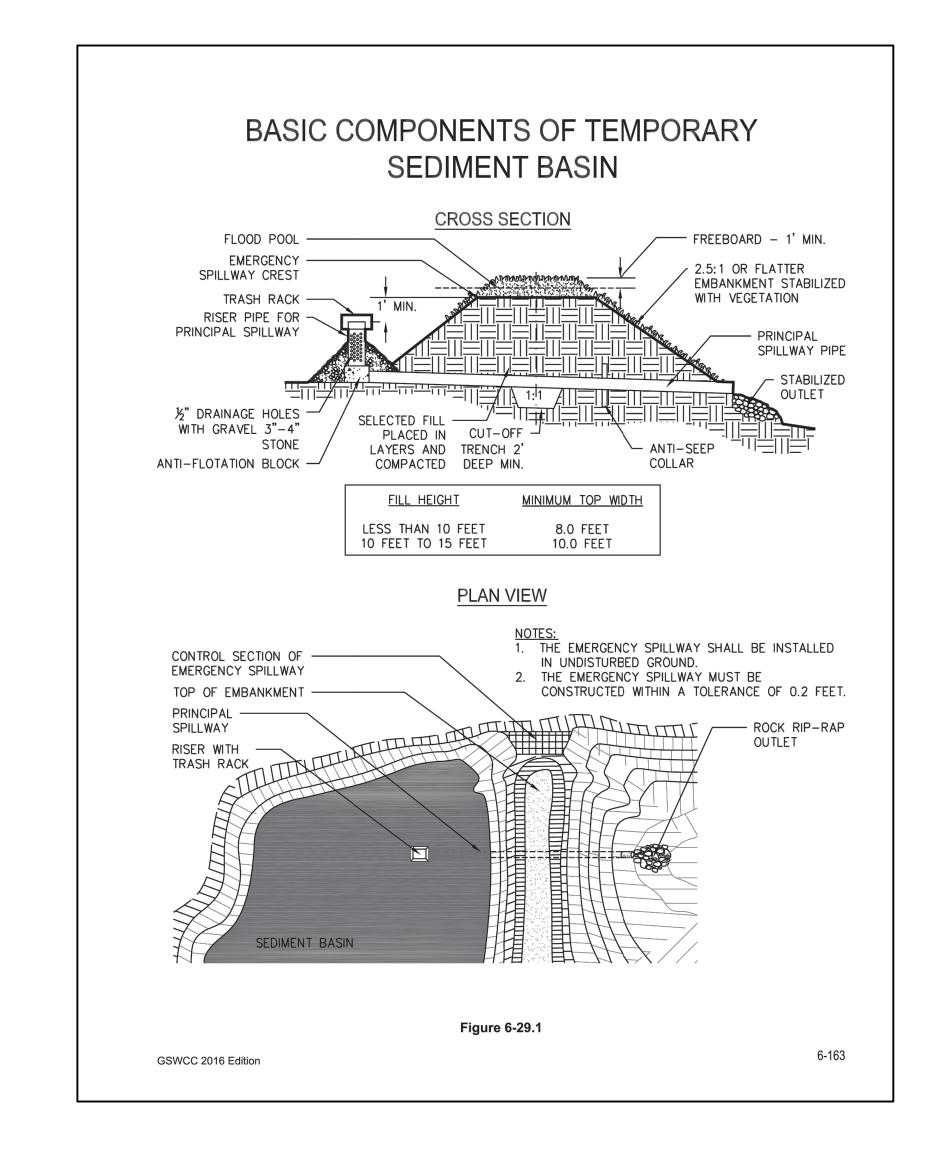
PROJECT NAME:

HEARD COUNTY

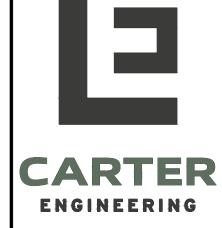
SHEET NUMBER: C 8.5 PROJECT NUMBER:

23001HCG









CARTER ENGINEERING 1010 COMMERCE DRIVE

BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

G G Z М М OPMENT

EROSION CONTROL DETAILS

PROJECT NAME:

HEARD COUNTY

SHEET NUMBER: C 8.6

PROJECT NUMBER: 23001HCG

"CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED. 9. ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS. 10. OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO CLIENT/OWNER.

11. FORE ASPHALT INSTALLATIONS, THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO INSTALLATION. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY. 12. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.

13. ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.

STANDARD DUTY CONCRETE PAVEMENT (TYPICAL)

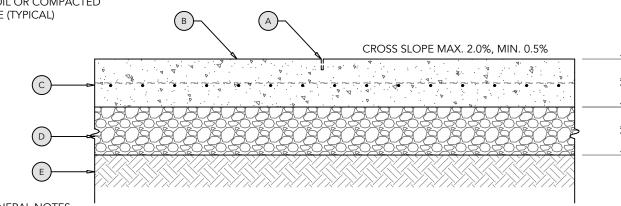
CONTROL JOINT (TYPICAL)
(REFER TO PLANS FOR TYPE AND LOCATION)

(B) LIGHT BROOM FINISH, TYPICAL

6" MINIMUM CONCRETE SLAB WITH 6 X 6 -W2.9
WEI DED WIPE MEST DEINESSES WELDED WIRE MESH REINFORCEMENT

MINIMUM 6" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS

NATIVE SUIL OR COIVII A SUBGRADE (TYPICAL) NATIVE SOIL OR COMPACTED



GENERAL NOTES:

CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI

SET REINFORCEMENT 1.5" TO 2" FROM SURFACE OF PAVING. WWM SHALL MAINTAIN 1.5" CLEARANCE FROM CONTRACTION JOINTS. AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.

4. REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENT OVER DETAILS HEREIN. 5. DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR. IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/4 THE CONCRETE THICKNESS.

6. ALL JOINTS TO BE PERPENDICULAR WITH PAVEMENT EDGE. WHERE CURVED, ALL JOINTS TO RADIATE AND BE ALIGNED WITH CENTER POINT. 7. "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.

8. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED 9. ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.

10. OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO CLIENT/OWNER. 11. FORE ASPHALT INSTALLATIONS, THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO

INSTALLATION. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY. 12. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.

13. ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.

HEAVY DUTY CONCRETE PAVEMENT (TYPICAL)

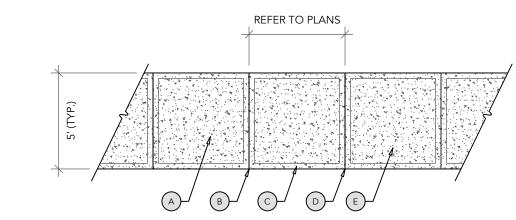
STANDARD DUTY CONCRETE TO STANDARD DETAIL STANDARD DUTY CONCRETE PAVEMENT,

EXPANSION JOINT AS REQUIRED PER B EXPANSION JOINT AS INCOME.

SPECIFICATION AND/OR LOCATION ON PLAN SMOOTH TOOLED FINISH AROUND ALL

TOOLED CONTROL JOINT WHERE SHOWN ON PLANS (TYPICAL)

(E) LIGHT BROOM FINISH (PERPENDICULAR TO DIRECTION OF TRAVEL) TO BE APPLIED TO AREA INSIDE SMOOTH TOOLED FINISH AREA



GENERAL NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI).

2. CONTROL JOINTS ARE AT 5'-0" O.C. TOOLED 1/2" WIDE WITH 1/2" RADIUS. JOINTS ARE 1" DEEP OR $\frac{1}{4}$ DEPTH OF SLAB (WHICHEVER IS GREATER)

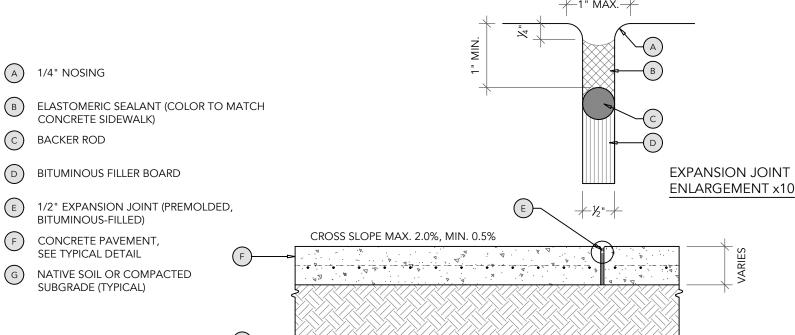
3. EXPANSION JOINTS SHALL HAVE A MAXIMUM 20' SPACING (REFER TO DETAIL). 4. CONCRETE TO BE REINFORCED AS NECESSARY (REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAIL)

5. SIDEWALK SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.

6. A SMOOTH TOOLED FINISH SHALL BE APPLIED TO THE THE EDGES (AS SHOWN) WHILE THE INNER SQUARE SHALL HAVE A

LIGHT BROOM FINISH TO CREATE PICTURE FRAME EFFECT. 7. "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.

TYPICAL CONCRETE SIDEWALK WITH TOOLED JOINTS



GENERAL NOTES:

CAULK EXPANSION JOINT WITH ELASTOMERIC SEALANT (COLOR TO MATCH ADJACENT CONCRETE COLOR).

EXPANSION JOINTS SHALL BE HAVE A MAXIMUM 20' SPACING. MAXIMUM WIDTH OF JOINT SEALANT SHALL BE ½" AS DETAILED. EXCESS SEALANT SHALL NOT EXTEND

BEYOND WIDTH OF JOINT OR ON TO JOINT NOSING. HOLD SEALANT DOWN ½" AS SHOWN. CLEAN ALL EXCESS SEALANT FROM CONCRETE SURFACE

DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR. IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/4 THE CONCRETE

'CURE AND SEAL', OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK. OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO

EXPANSION JOINT (TYPICAL)

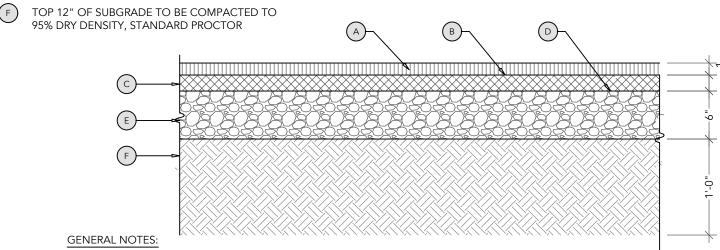
(A) 1.5" TYPE "E" ASPHALT TOPPING

(B) TACK COAT PER STATE DOT STANDARDS

c) 2" ASPHALT BINDING COURSE

D) PRIME COAT PER STATE DOT STANDARDS

(E) MINIMUM 6" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS



1. AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENT OVER

DETAILS LISTED WITHIN THIS SET. THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO

INSTALLATION OF ASPHALT. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED

5. ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.

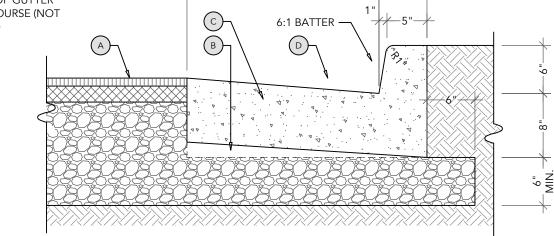


STANDARD DUTY ASPHALT PAVEMENT (TYPICAL)

(A) ADJACENT PAVEMENT, SEE PLANS

B GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE (NOT TO BE LESS THAN 8" AT ANY POINT)

(c) 24" CURB & GUTTER (8" DEEP MIN.) (D) 8.33% SLOPE MAX, REFER TO PLANS



GENERAL NOTES

MINIMUM DESIGN STANDARDS SHALL MEET STATE DEPARTMENT OF TRANSPORTATION (DOT) STANDARD SPECIFICATIONS AND DETAILS

AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODE, REGULATIONS AND ORDINANCES. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI).

1/2" EXPANSION JOINTS OR PREMOLDED BITUMINOUS EXPANSION JOINT MATERIAL SHALL BE PROVIDED AT ALL STRUCTURES AND RADIUS POINTS AND AT INTERVALS NOT TO EXCEED 50' SPACING (REFER TO DETAIL).

CONSTRUCTION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED 10' SPACING.

CONCRETE TO BE REINFORCED AS NECESSARY (REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAIL) AGGREGATE BASE COURSE MATERIAL MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE DOT. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.

AGGREGATE BASE SHALL EXTEND BEYOND THE BACK OF CURB A MINIMUM OF 6". "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK. GUTTER THICKNESS MAY BE INCREASED TO MATCH PAVING COURSE AS NEEDED. GUTTER SHALL BE SUPER ELEVATED IN AREAS WHERE STORMWATER IS INTENDED TO DRAIN AWAY FROM THE CURB (REFER TO PLANS).

10. PROVIDE 45° MITERED CONTROL JOINT AT 90° CORNERS 11. TOOLED CONTROL JOINTS SHALL BE PLACED OVER ALL SLEEVES AND EXTEND DOWN THE FACE OF THE CURB TO THE SLEEVE OPENING



CURB & GUTTER - TYPICAL

D NATIVE SOIL OR COMPACTED SUBGRADE (TYPICAL)

(B) CONCRETE PAVEMENT, SEE TYPICAL DETAIL

SAW CUT OR TOOLED CONTROL JOINT

(A) LIGHT BROOM FINISH, TYPICAL

C SAW CUT ON TOOLLE ST. . 1/4" X (SEE NOTES FOR DEPTH)

CROSS SLOPE MAX. 2.0%, MIN. 0.5%

GENERAL NOTES

1. DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR. IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/3 THE

CONCRETE THICKNESS. 2. ALL JOINTS ARE TO BE PERPENDICULAR WITH EDGES OF PAVEMENT. WHERE PAVEMENT IS CURVED, ALL

JOINTS ARE TO RADIATE AND BE ALIGNED WITH CENTER POINT. "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK. 4. OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO



CONTROL JOINT - SAW CUT OR TOOLED

(A) 2" ASPHALT TOPPING (SUPERPAVE MIX)

(B) TACK COAT PER STATE DOT STANDARDS (c) 2" ASPHALT BINDING COURSE

D PRIME COAT PER STATE DOT STANDARDS

MINIMUM 8" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS

F TOP 12" OF SUBGRADE TO BE SEEN 95% DRY DENSITY, STANDARD PROCTOR TOP 12" OF SUBGRADE TO BE COMPACTED TO

1. AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD. 2. REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENT OVER

DETAILS LISTED WITHIN THIS SET. 3. THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO

5. ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.

INSTALLATION OF ASPHALT. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY 4. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED

HEAVY DUTY ASPHALT PAVEMENT (TYPICAL)

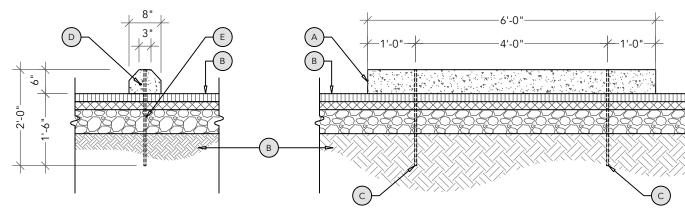
A 3000 P.S.I. CONCRETE WHEELSTOP, REFER TO PLAN FOR LOCATION

(B) PARKING LOT PAVEMENT, SEE PLAN

C 1/2" STEEL DOWEL ON #6 REDAR, CENTENED ON LEGISLATION WHEEL STOP, DRIVEN THROUGH SLEEVES INTO COMPACTED BASE 1/2" STEEL DOWEL OR #6 REBAR, CENTERED ON LENGTH OF

(D) #4 CONTINUOUS REBAR, TYPICAL

(F) COMPACTED SUBGRADE, TYP.



1. CONTRACTOR SHALL CAULK ALL DOWEL OPENINGS, COLOR TO MATCH WHEEL STOP MATERIAL. HOLES SHALL BE FILLED WITH

NON-SHRINKAGE CEMENTITIOUS GROUT. PLACE WHEELSTOPS PER PLAN AND CENTERED WITHIN PARKING SPACE STRIPING AS SHOWN.

3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURUER'S RECOMMENDATIONS AND SPECIFICATIONS.



CONCRETE WHEELSTOP - 6' - TYPICAL

STANDARD DETAILS PROJECT NAME: HEARD

GSWCC Level II Certification No. 000000003007

ENGINEERING

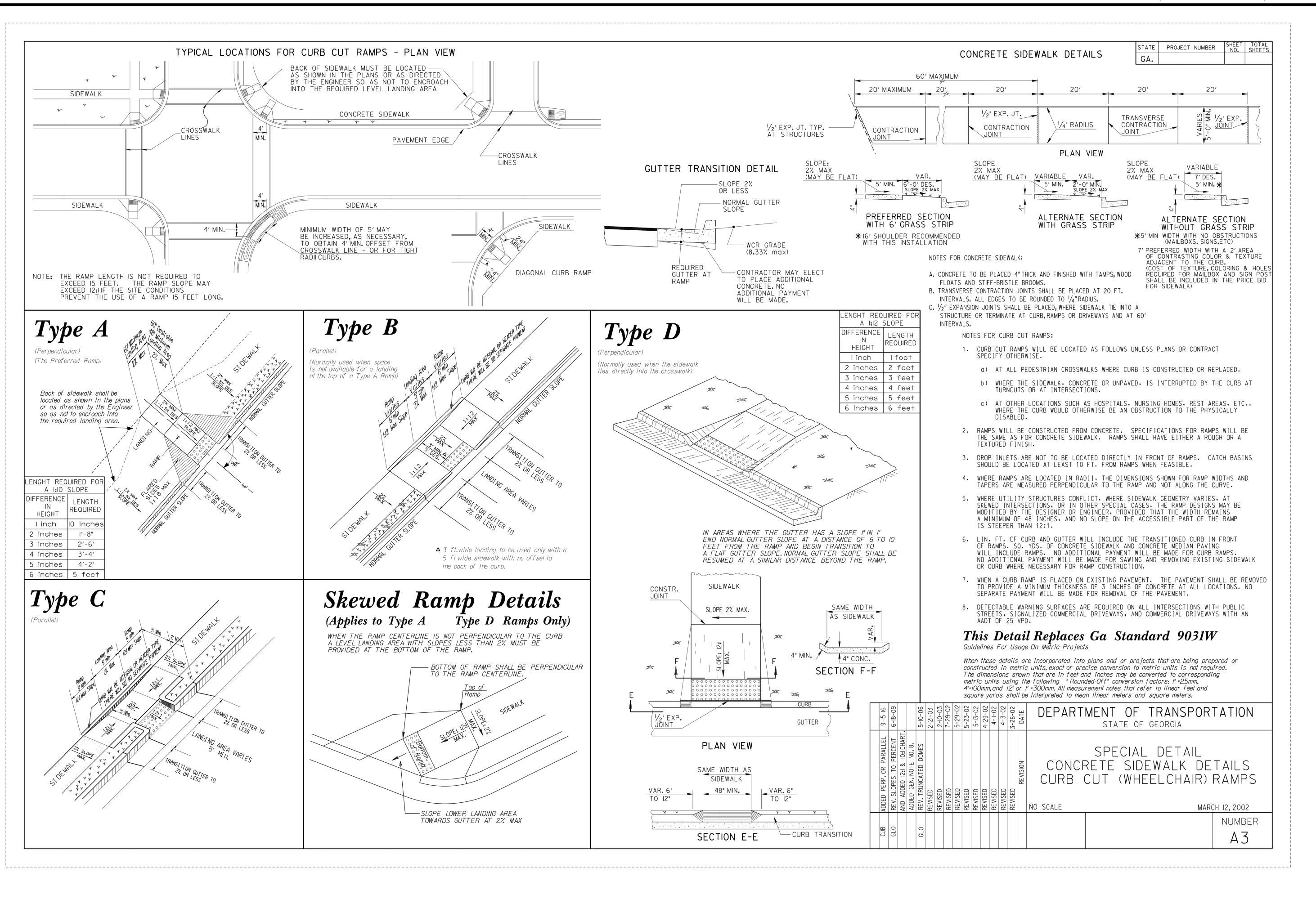
CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622

www.carterengineering.com

P: 770.725.1200 -: 770.725.1204

COUNTY SHEET NUMBER: C 9.0

PROJECT NUMBER: 23001HCG







CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200

-: 770.725.1204 www.carterengineering.com

5 . Z Z Z Z Z OPMENT SITE

SHEET TITLE:

STANDARD **DETAILS**

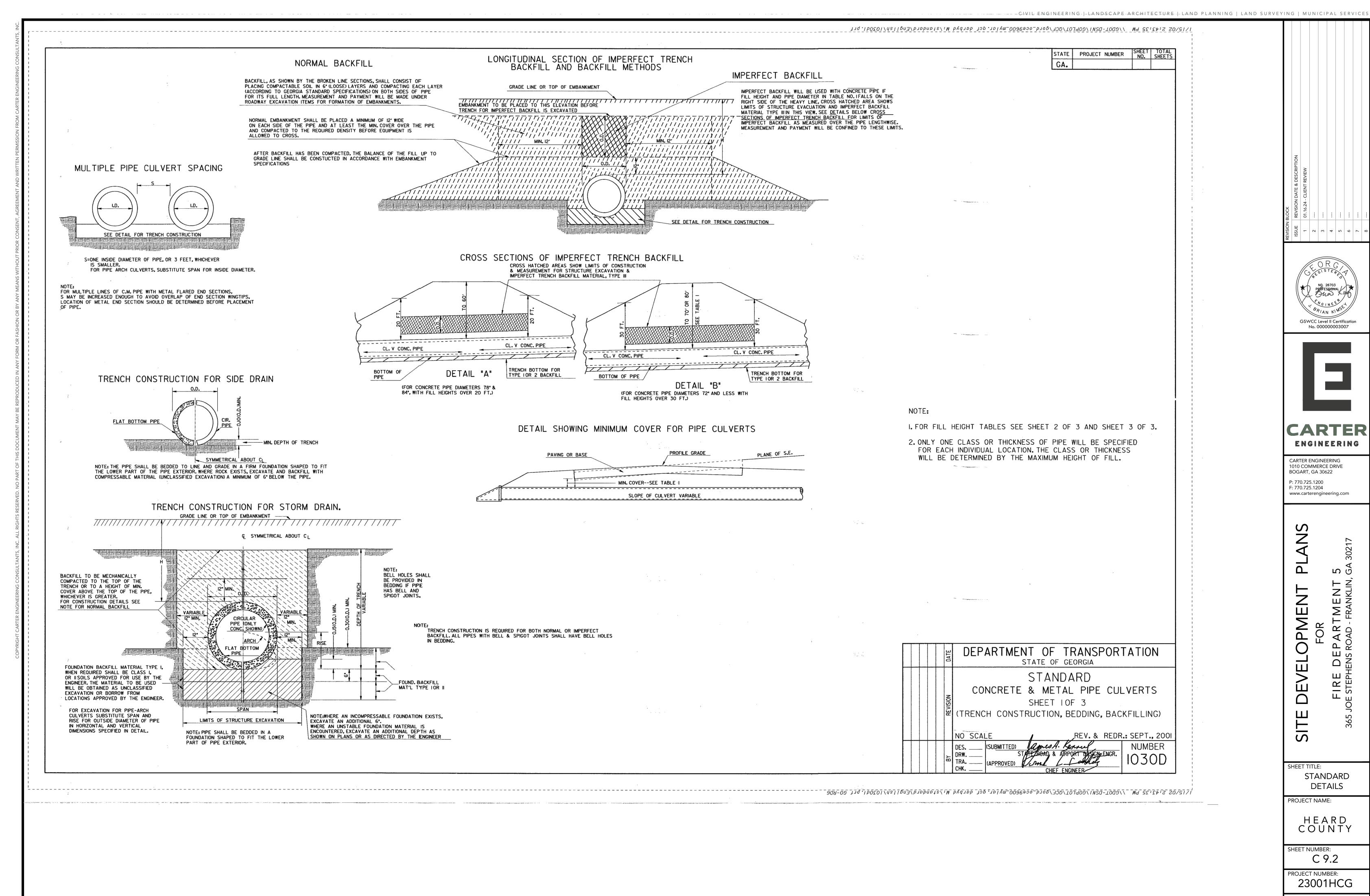
PROJECT NAME:

SHEET NUMBER:

HEARD COUNTY

C 9.1 PROJECT NUMBER:

23001HCG







ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 -: 770.725.1204 www.carterengineering.com

SITE

STANDARD **DETAILS**

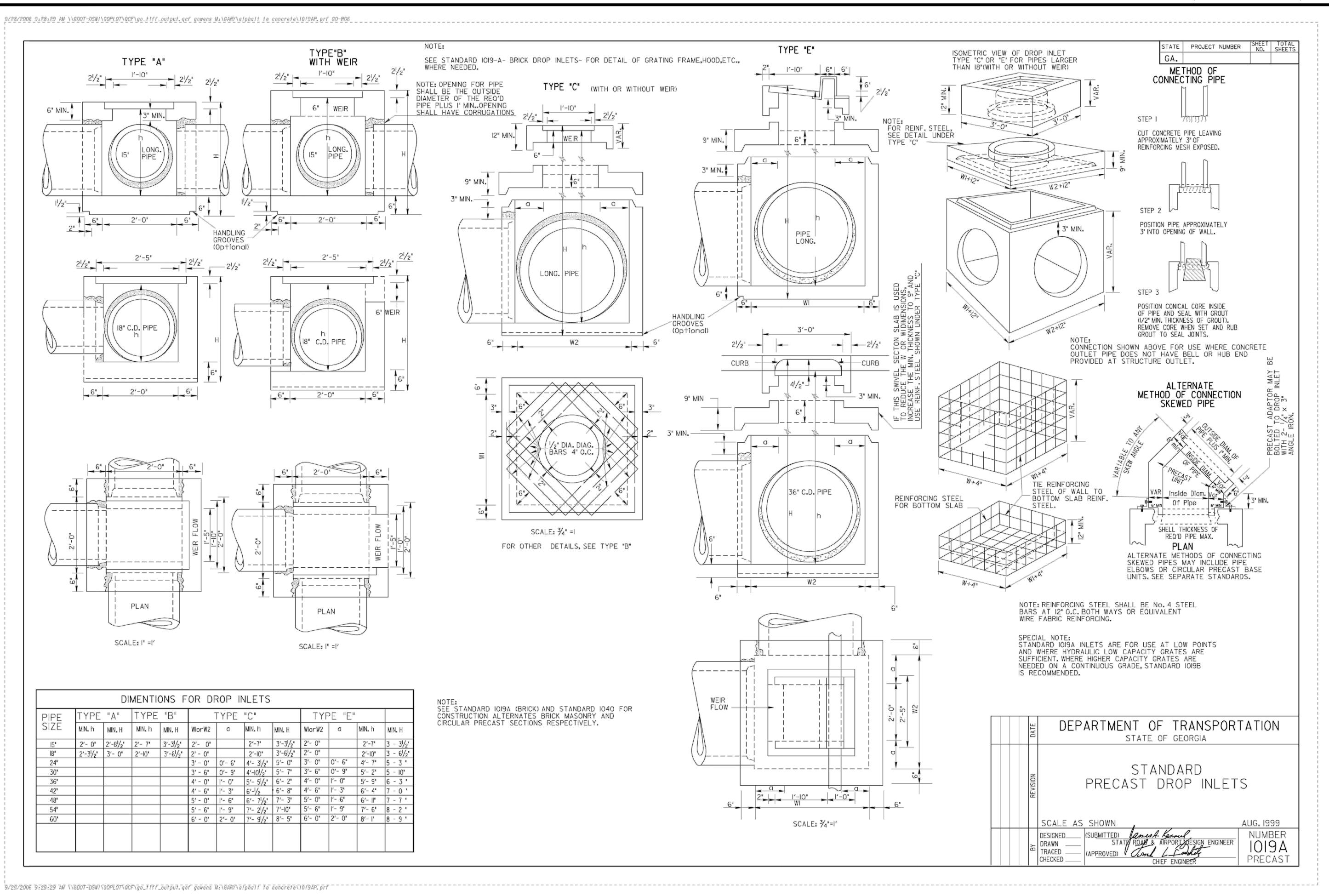
PROJECT NAME:

SHEET NUMBER:

HEARD COUNTY

C 9.2

PROJECT NUMBER: 23001HCG







CARTER ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204

www.carterengineering.com

5 GA MEN. SITE

SHEET TITLE:

OPMENT

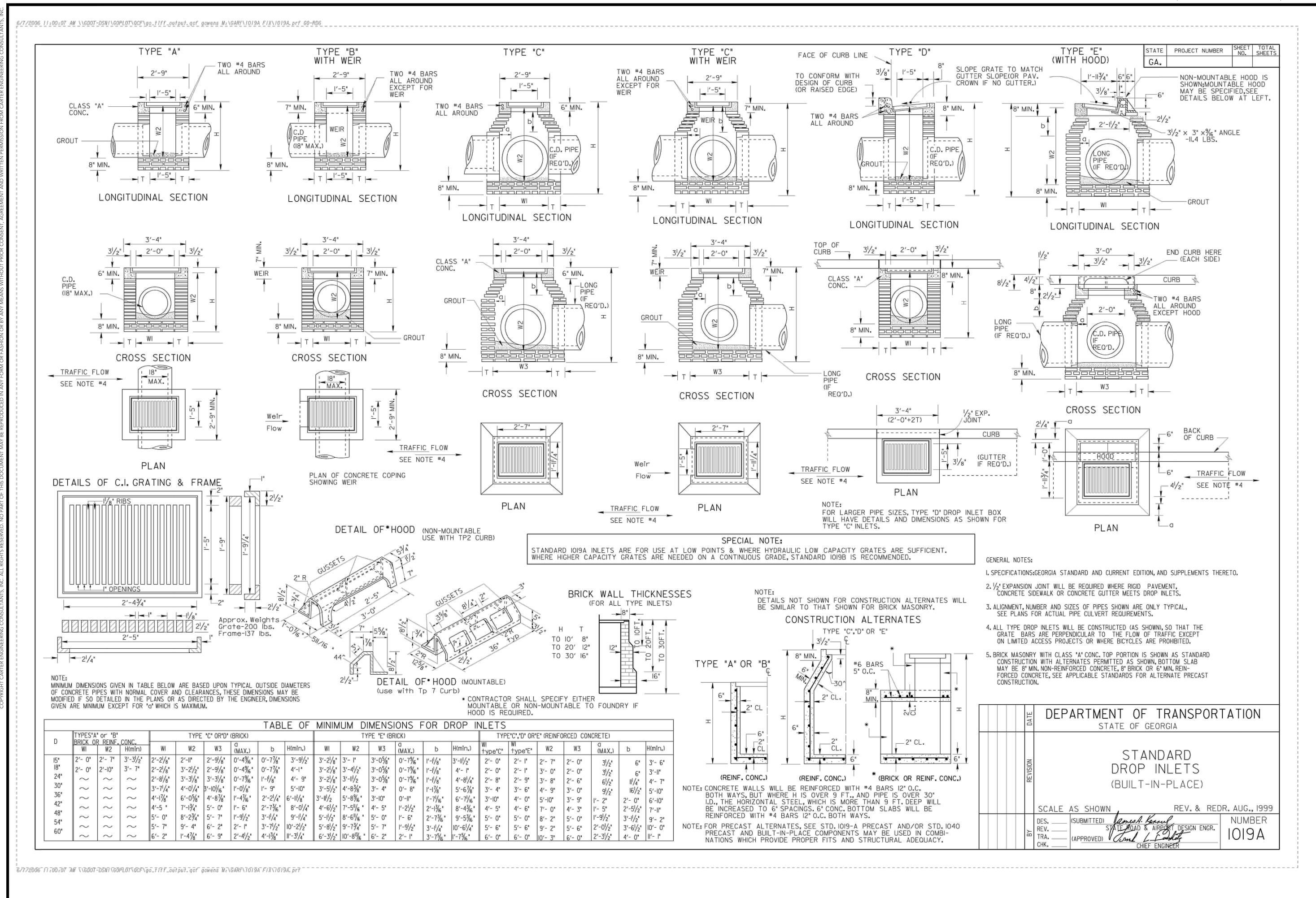
STANDARD **DETAILS**

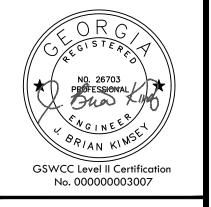
PROJECT NAME:

HEARD COUNTY

SHEET NUMBER: C 9.3

PROJECT NUMBER: 23001HCG







CARTER ENGINEERING 1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 -: 770.725.1204 www.carterengineering.com

OPMENT

C) шĘ AR OAD

SHEET TITLE:

STANDARD **DETAILS**

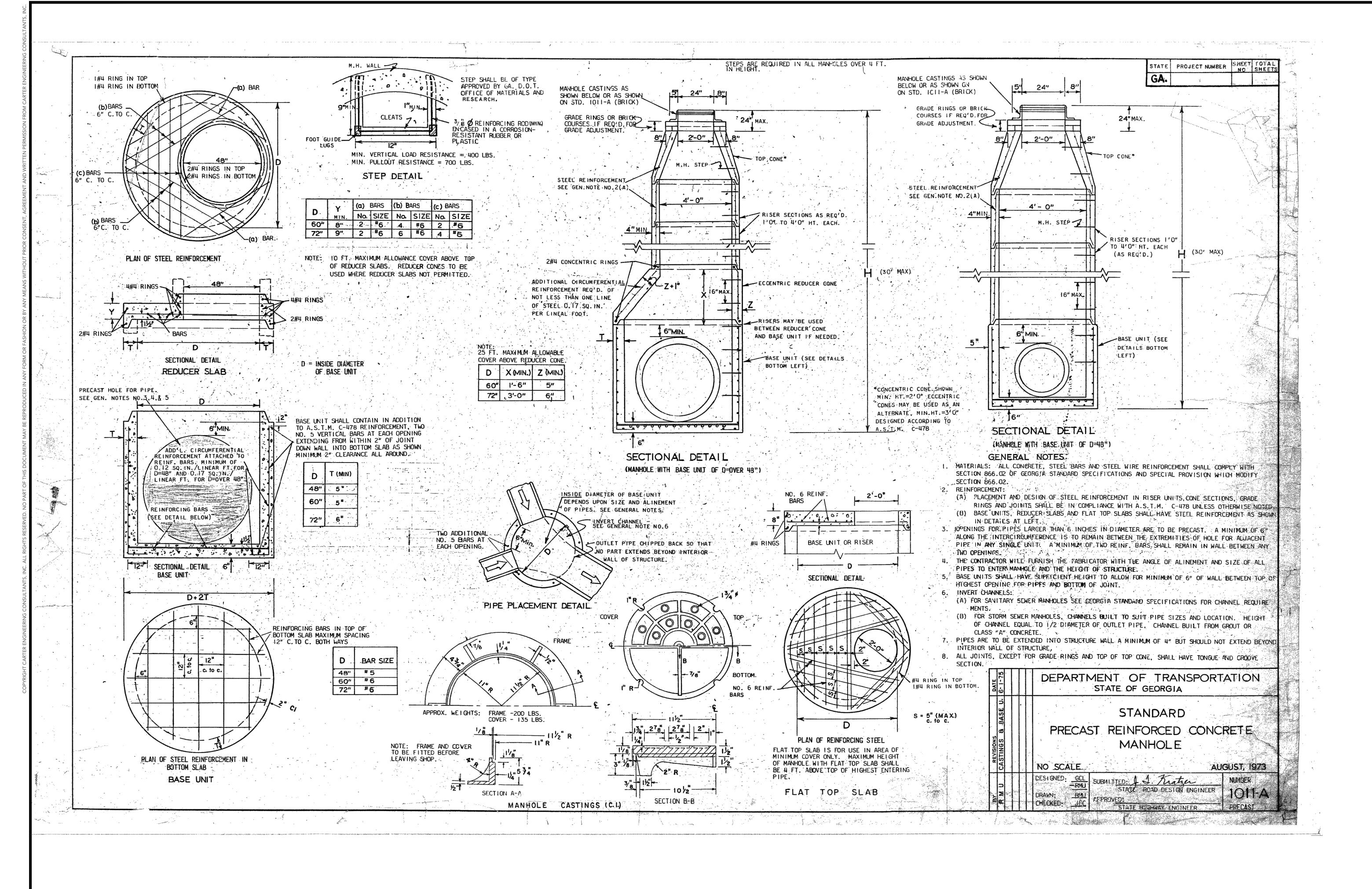
PROJECT NAME:

SITE

HEARD COUNTY

SHEET NUMBER: C 9.4

PROJECT NUMBER: 23001HCG



CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES





ENGINEERING

1010 COMMERCE DRIVE BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

5 GA $\vdash \vec{Z}$. В М PAR-ROAD-S ΠΫ SITE

OPMENT

SHEET TITLE: STANDARD

DETAILS

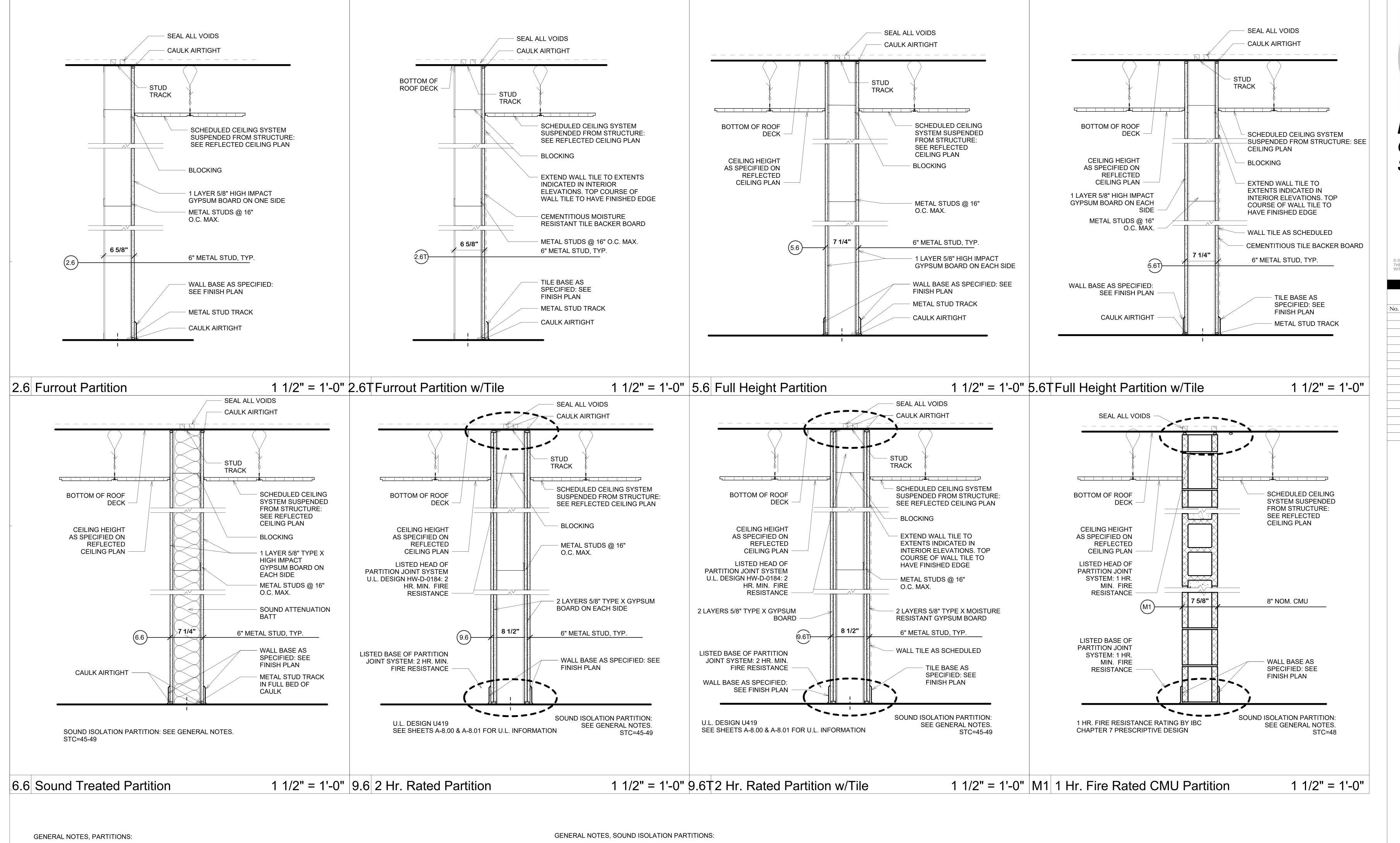
PROJECT NAME:

SHEET NUMBER:

HEARD COUNTY

C 9.5 PROJECT NUMBER:

23001HCG

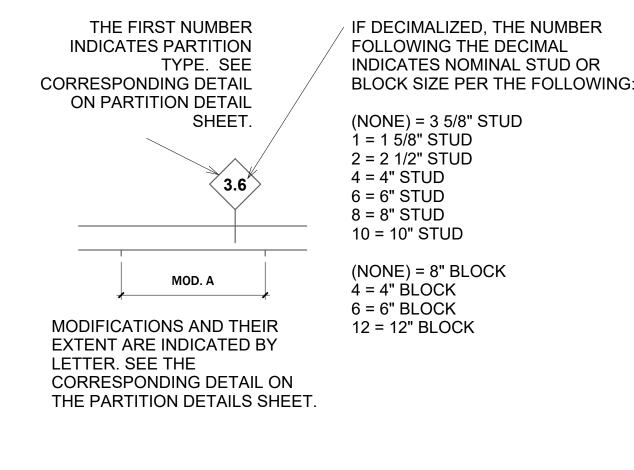


. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE RESISTANCE RATED WALLS (AND CORRESPONDING FIRE RESISTANCE RATING) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS, AN SHAFT ENCLOSURES BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING:

1 & 2 HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.

IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND.

- 2. EXTEND AND ANCHOR ALL STUD FRAMING TO STRUCTURE ABOVE UNLESS OTHERWISE NOTED.
- 3. MAINTAIN HORIZONTAL CONTINUITY OF FIRE RATED FLOOR-CEILING AND ROOF-CEILING FIRE RATED ASSEMBLIES OVER TOP OF PARTITIONS, TYPICAL.
- 4. WHERE NO CEILING IS SCHEDULED. EXTEND GYPSUM WALL BOARD TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
- 5. WHEN PIPING IS PRESENT IN THE PARTITION, STALL 3" BATT INSULATION ON BOTH SIDES OF THE PIPING.



1. ALL PARTITIONS DESIGNATED AS SOUND ISOLATION PARTITIONS SHALL RECEIVE ACOUSTICAL SEALANT FOR THE ENTIRE PERIMETER OF THE PARTITION. INCLUDING TOP, SIDES, AND CORNERS, UNLESS SIMILARLY SEALED FOR OTHER REASONS, SUCH AS FIRE RESISTANCE.

2. ALL PARTITIONS DESIGNATED ASA SOUND ISOLATION PARTITIONS SHALL RECEIVE ACOUSTICAL SEALANT AT ALL PENETRATIONS WHICH ARE NOT OTHERWISE SEALED AIR TIGHT.

3. WHERE BATT INSULATION IS SCHEDULED IN A PARTITION, THE THICKNESS OF THE BATTS SHALL BE THE LARGEST STANDARD THICKNESS THAT CAN BE CONTAINED WITHIN THE DEPTH OF THE SCHEDULED STUD CAVITY.

4. WHERE BATT INSULATION IS SCHEDULED IN A SOUND ISOLATION PARTITION, CUT BATTS 1" WIDER THAN STUD SPACING AND CREASE TO FIT IN CAVITY, TYPICALLY.

GENERAL NOTES, WET LOCATION PARTITIONS:

1. GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION SUCH AS TOILETS, SHOWERS, JANITORS CLOSETS, ETC. SHALL BE MOISTURE RESISTANT TYPE.

2. USE CEMENTITIOUS TILE BACKER BOARD ON ALL INTERIOR PARTITIONS THAT ARE TO RECEIVE WALL TILE.

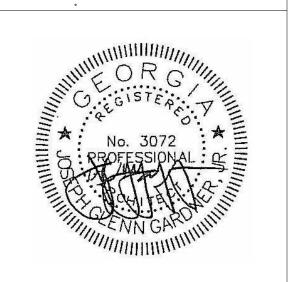


HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE	ASE	D FOR CONSTRUCTION
			REVISIONS
No.:	Date	•	Description
	03/06/24	•	Issued for Bid
•		•	
		•	
		۰	
		•	
		۰	
		•	
		•	
۰		۰	



Gardner Smith

A Professional Corporation for the Practice of Architecture

www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805

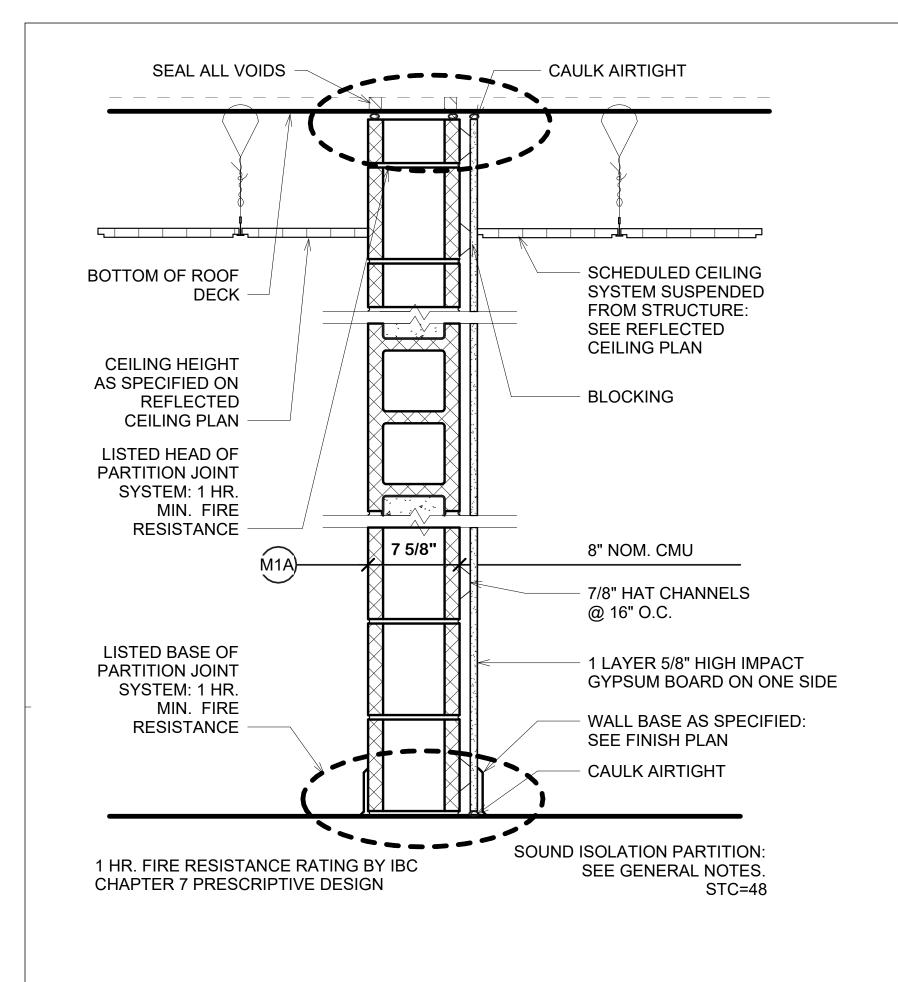
404.521.2118 (f) PROJECT NO.

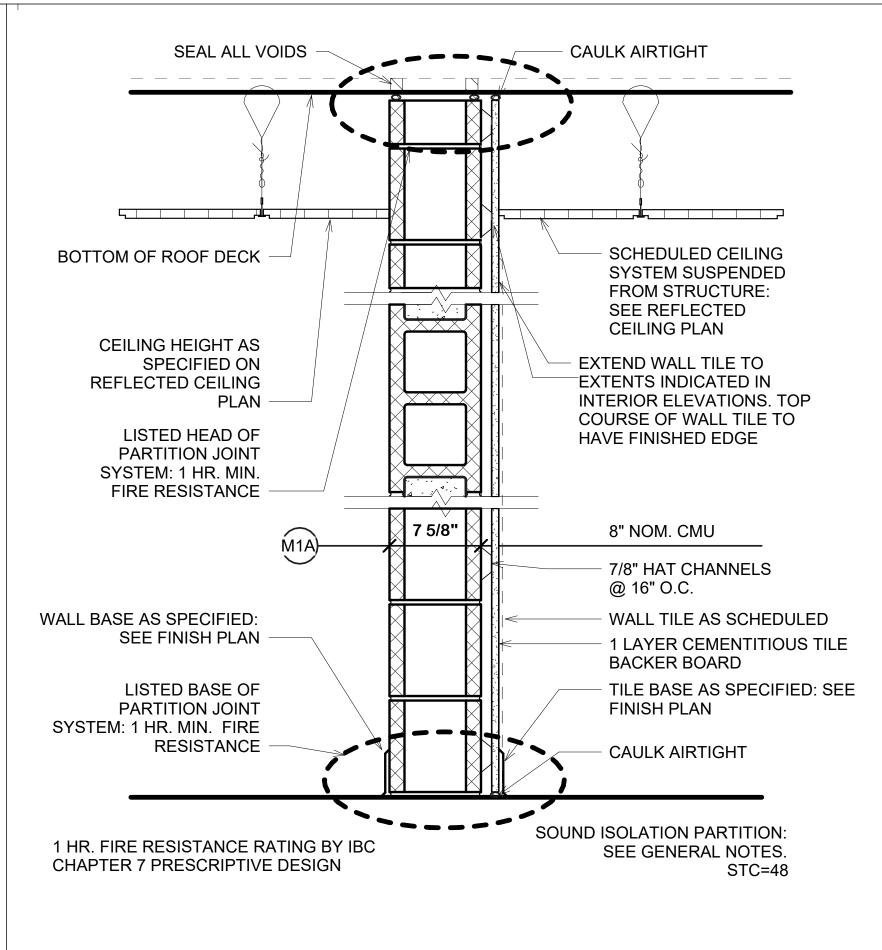
22125

PARTITION DETAILS

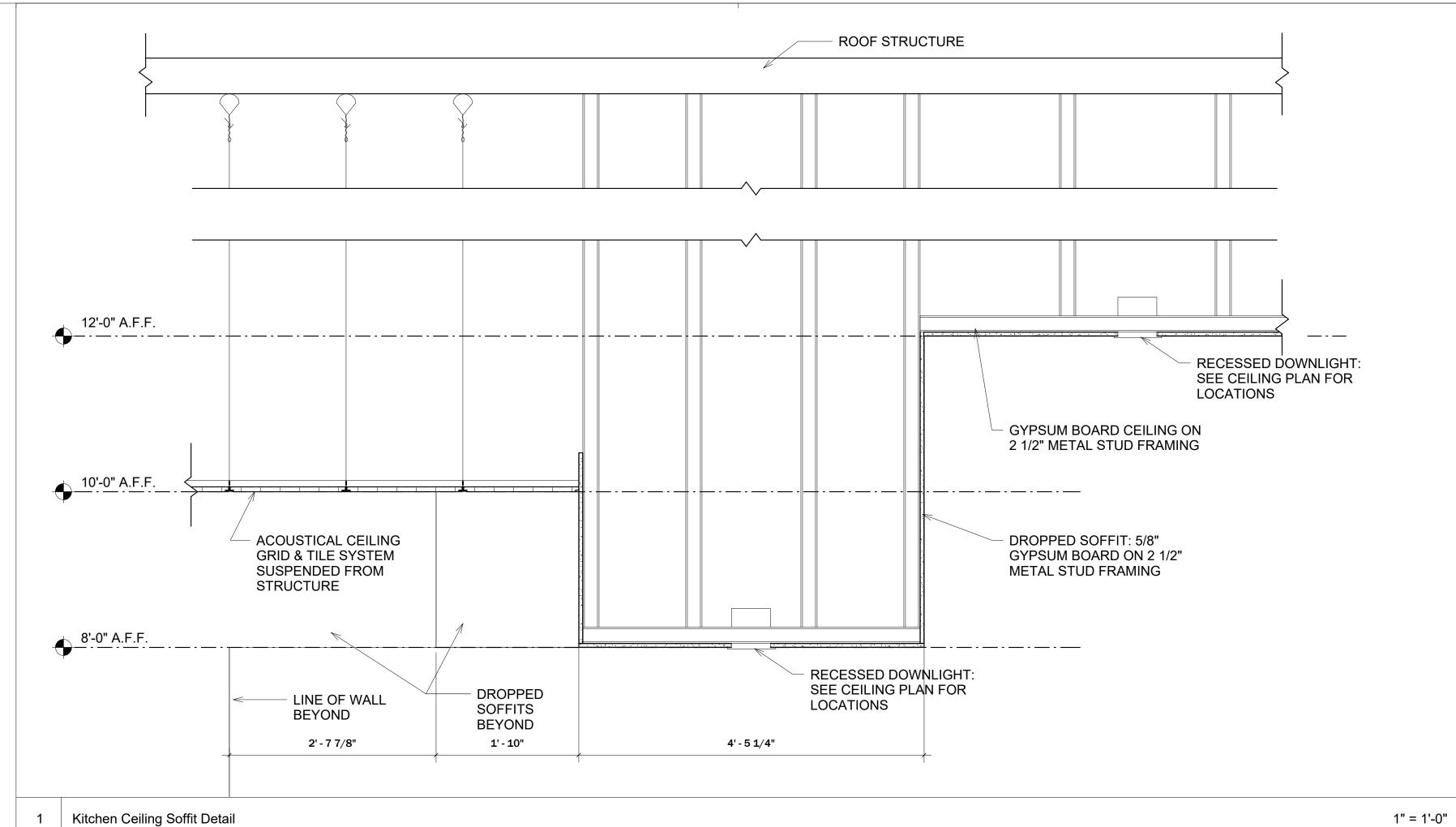
SHEET TITLE

SHEET NO.





1 1/2" = 1'-0"





HEARD **COUNTY FIRE** STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE	ASED FOR CONSTRUCTION
		REVISIONS REVISIONS
	No.: Date	: Description
	: 03/06/24	: Issued for Bid
	0	•
	•	•
	0	•
	0	•
	•	•
	0	•
	•	•
	•	•
'-0"	0	•



Gardner Smith

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

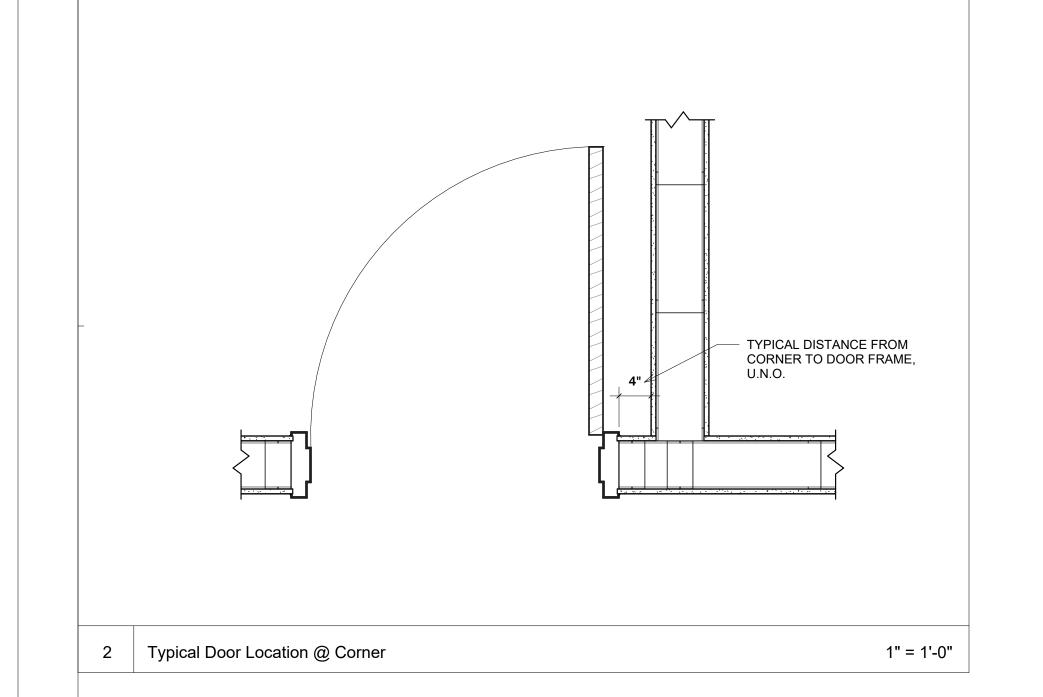
22125

SHEET TITLE PARTITION & CEILING DETAILS

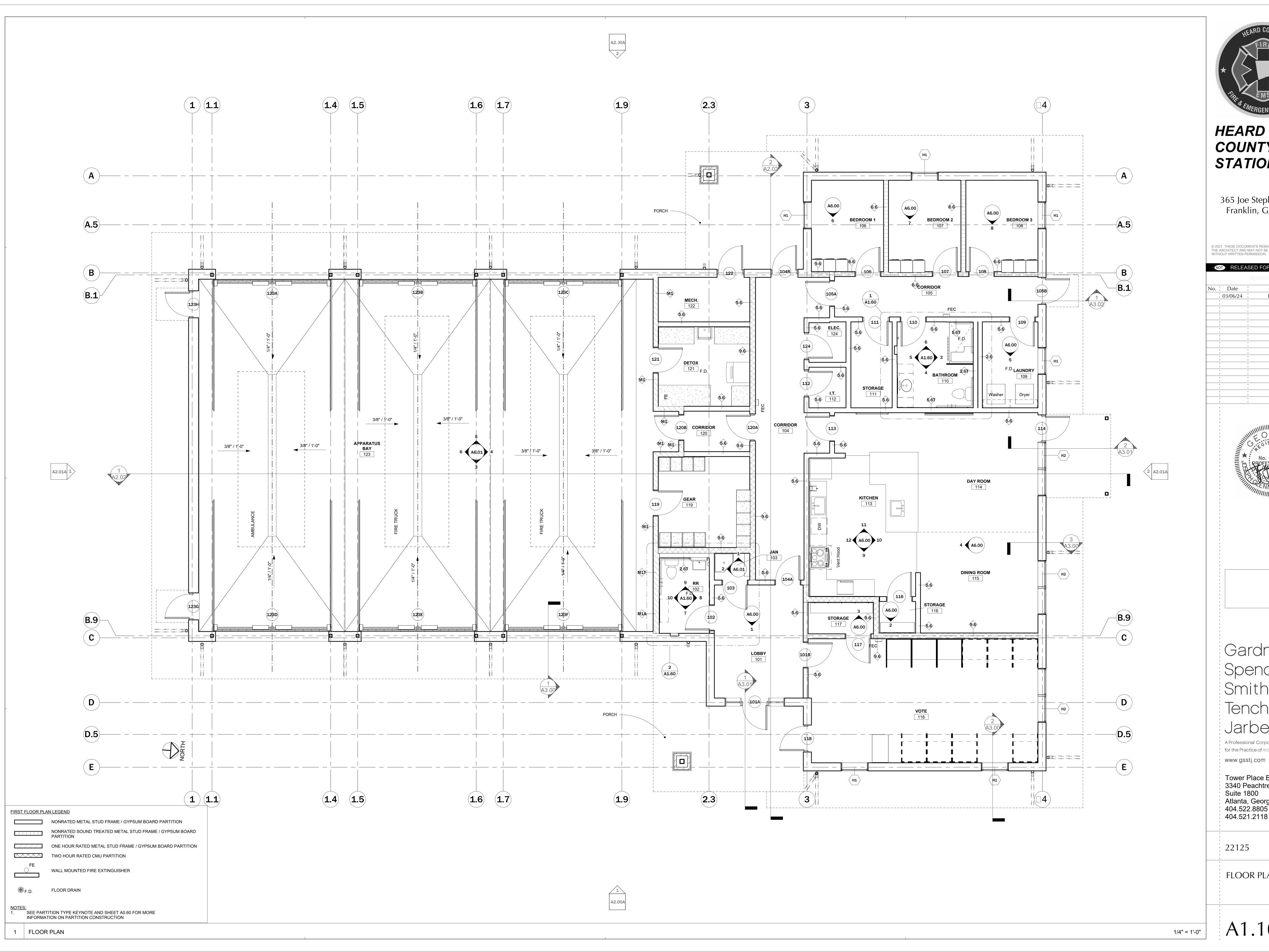
SHEET NO.

PROJECT NO.

A0.61



M1A1 Hr. Fire Rated CMU Part. w/Gyp Bd. 1 1/2" = 1'-0" M1T1 Hr. Fire Rated CMU Part. w/Tile





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

NOT RELE	ASED FOR CONSTRUCTION
	REVISIONS REVISIONS
No.: Date	: Description
. 03/06/24	: Issued for Bid
0	•
•	•
0	•
	•
•	•
•	•
•	•
•	•
•	•
•	•
9	•
•	•
۰	•



Gardner Smith Tench &

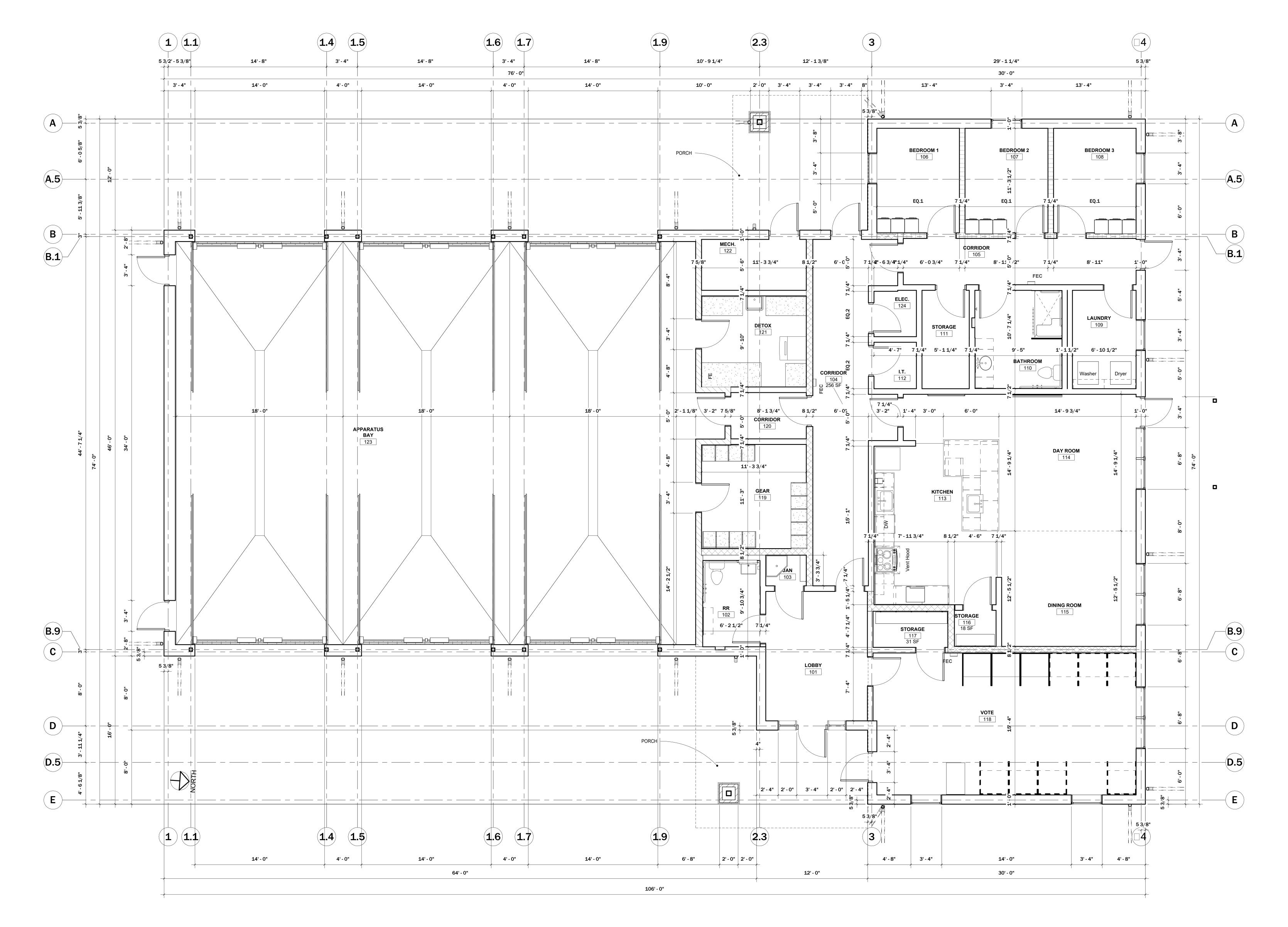
A Professional Corporation for the Practice of Architecture

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

SHEET TITLE FLOOR PLAN

SHEET NO.

PROJECT NO.





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

		REVISIONS
No. : Date	: Des	cription
: 03/06/24	: Issue	d for Bid
•	•	
•	•	
۰	٠	
•	•	
	•	
•	•	
•	0	
٠	۰	
۰	•	
٠	•	
•	0	
	•	
•	•	
•	•	
۰	0	
ė .	o .	
•	•	
•	•	
0	•	
•	•	
•	•	
٠	٠	
•	•	



Gardner

Spencer
Smith
Tench &
Jarbeau

A Professional Corporation for the Practice of Architecture

www.gsstj.com

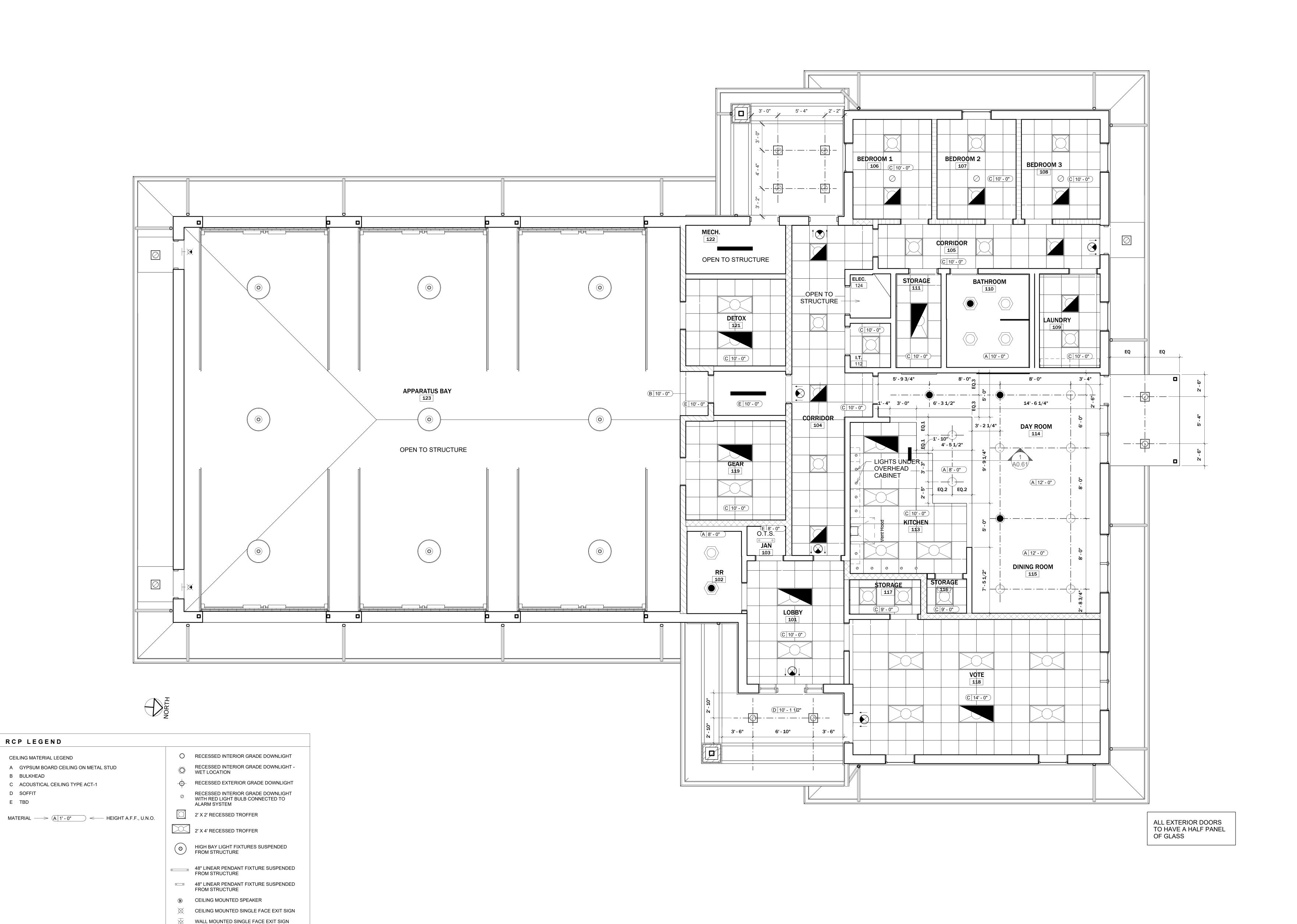
Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

: : 22125

SHEET TITLE
DIMENSION PLAN

SHEET NO.

PROJECT NO.





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

RELE	ASED FOR CO	NSTRUCTION
	REVISIONS	DEVIOLONI
		REVISION
No.: Date	: Desc	cription
: 03/06/24	issued	d for Bid
0	0	
•	•	
•	•	
	•	
•	•	
0	0	
•	•	
•	•	
•	•	
•	•	
•	•	
0	•	
0	•	
0	•	
•	•	
•	•	
٠		



Smith

A Professional Corporation for the Practice of Architecture · www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

22125

SHEET TITLE REFLECTED CEILING PLAN

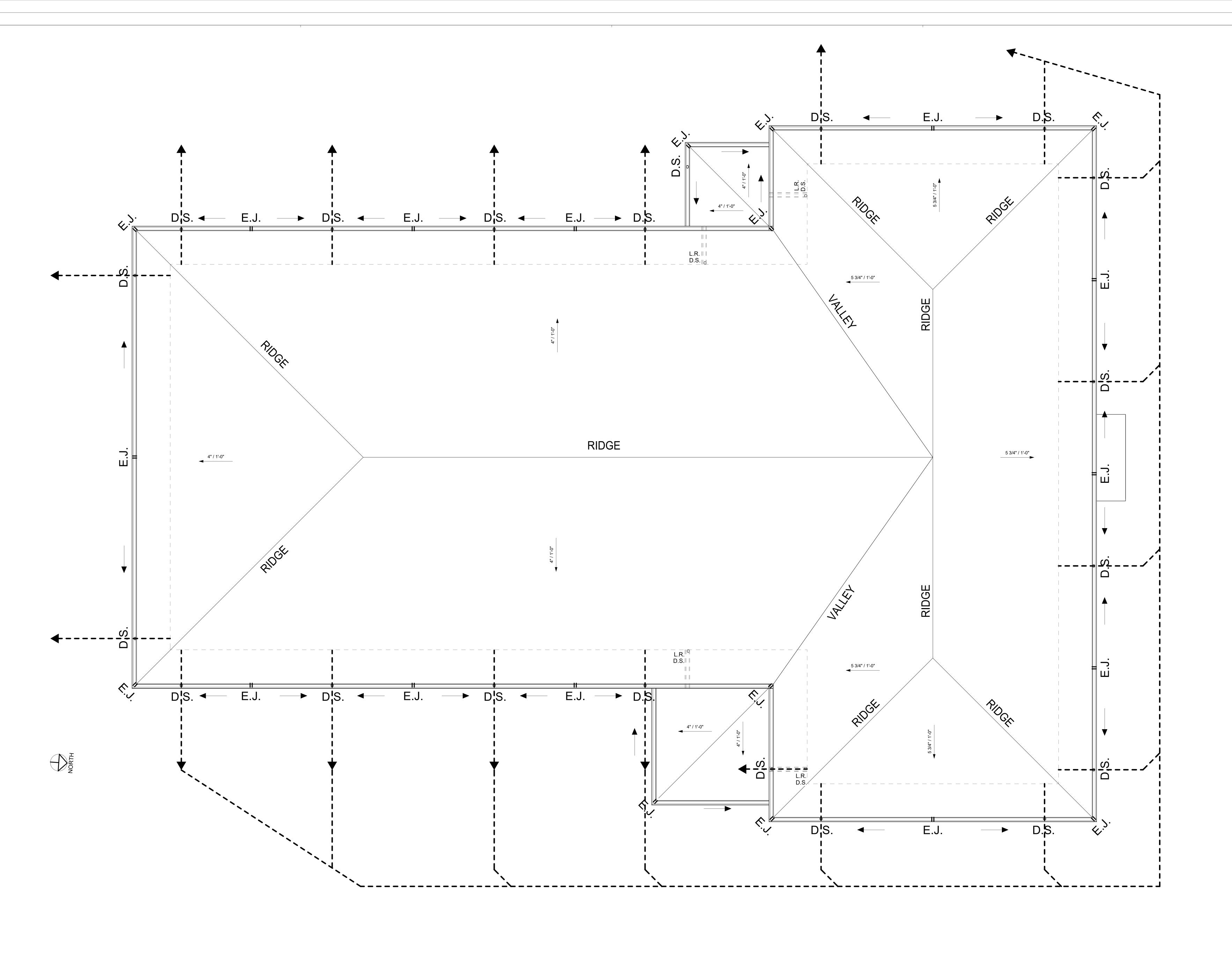
PROJECT NO.

SHEET NO.

CEILING MOUNTED DOUBLE FACE EXIT SIGN WITH ARROWS

B BULKHEAD

D SOFFIT





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

INCLE	ASED FOR CON	STRUCTION
		REVISIONS
No.: Date	: Desci	ription
: 03/06/24	: Issued	for Bid
•	9	
•	•	
•	0	
0	0	
•	•	
•	0	
•	•	
•	0	
•	•	
•	•	
o o	0	
o o	0	
•	0	



Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation for the Practice of Architecture

www.gsstj.com

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

22125

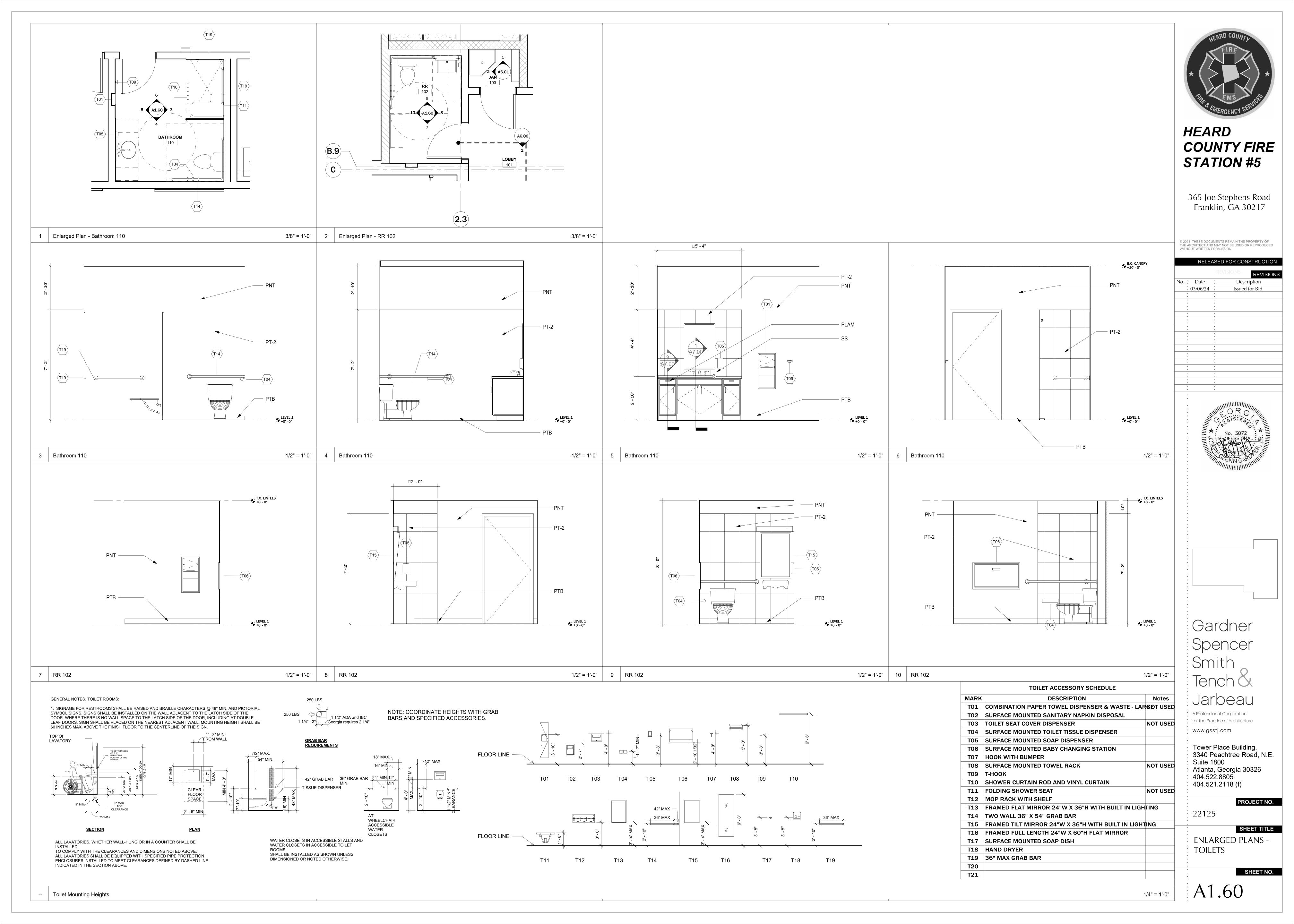
SHEET TITLE

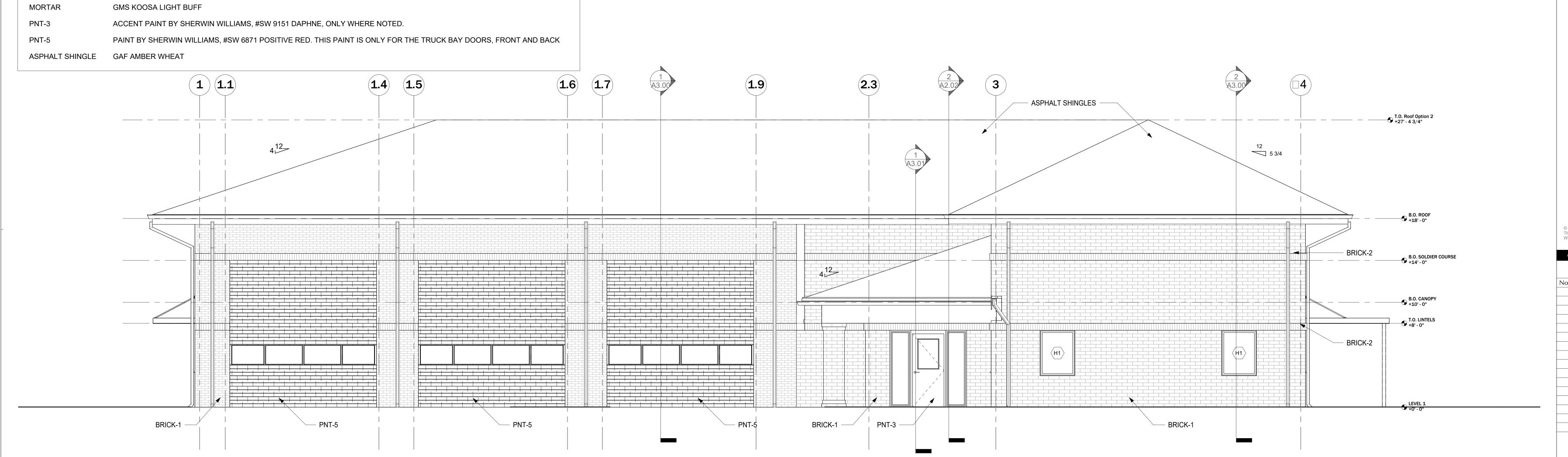
ROOF PLAN

SHEET NO.

PROJECT NO.

A1.41







365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

			REVISIONS
No.:	Date	•	Description
	03/06/24	•	Issued for Bid
۰		۰	
۰		۰	
		۰	
•		•	
•		•	
		•	
		•	
		۰	
•		•	



1/4" = 1'-0"

Gardner
Spencer
Smith
Tench &

A Professional Corporation for the Practice of Architecture

· www.gsstj.com

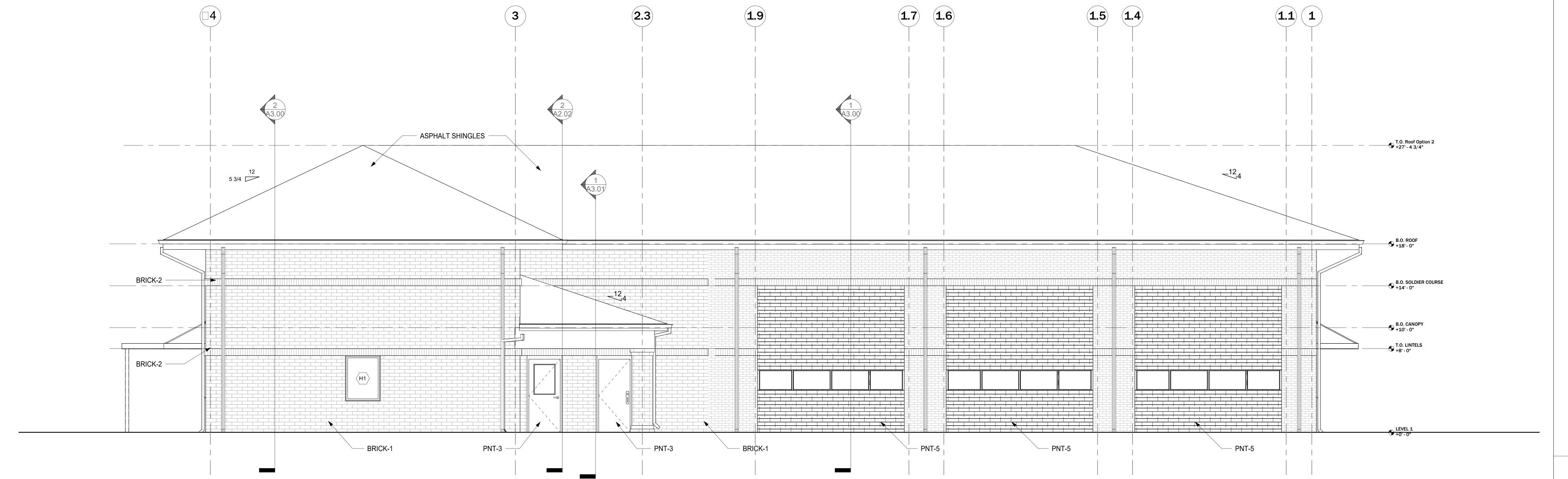
Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

22125

EXTERIOR
ELEVATIONS

A2.00A

PROJECT NO.



EXTERIOR FINISHES:

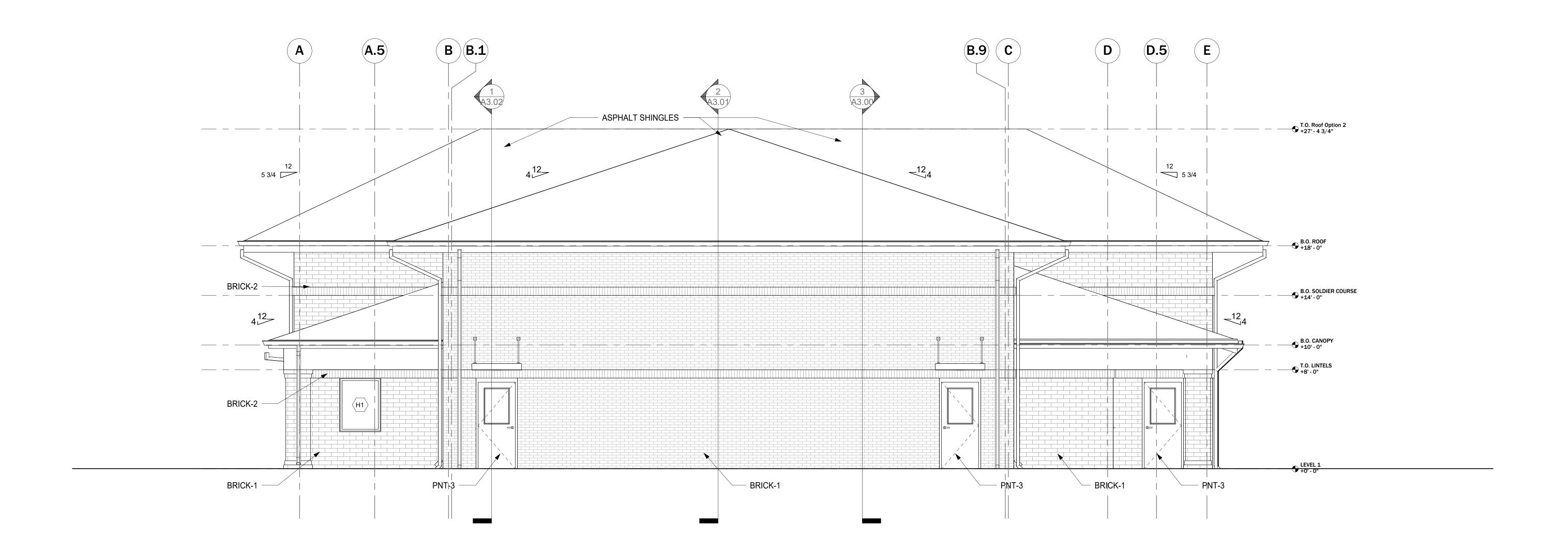
BRICK-1

BRICK-2

1 FRONT ELEVATION

ACME MUSHROOM BROWN, MODULAR SIZE

ACME DOESKIN, MODULAR SIZE





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

RELE/	ASED FOR CONSTRUCTION
	REVISIONS REVISION
No.: Date	: Description
. 03/06/24	: Issued for Bid
0	•
•	•
•	•
•	•
•	•
•	•
٠	•
•	•
•	•
•	•



1/4" = 1'-0"

Gardner Smith

A Professional Corporation for the Practice of Architecture : www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

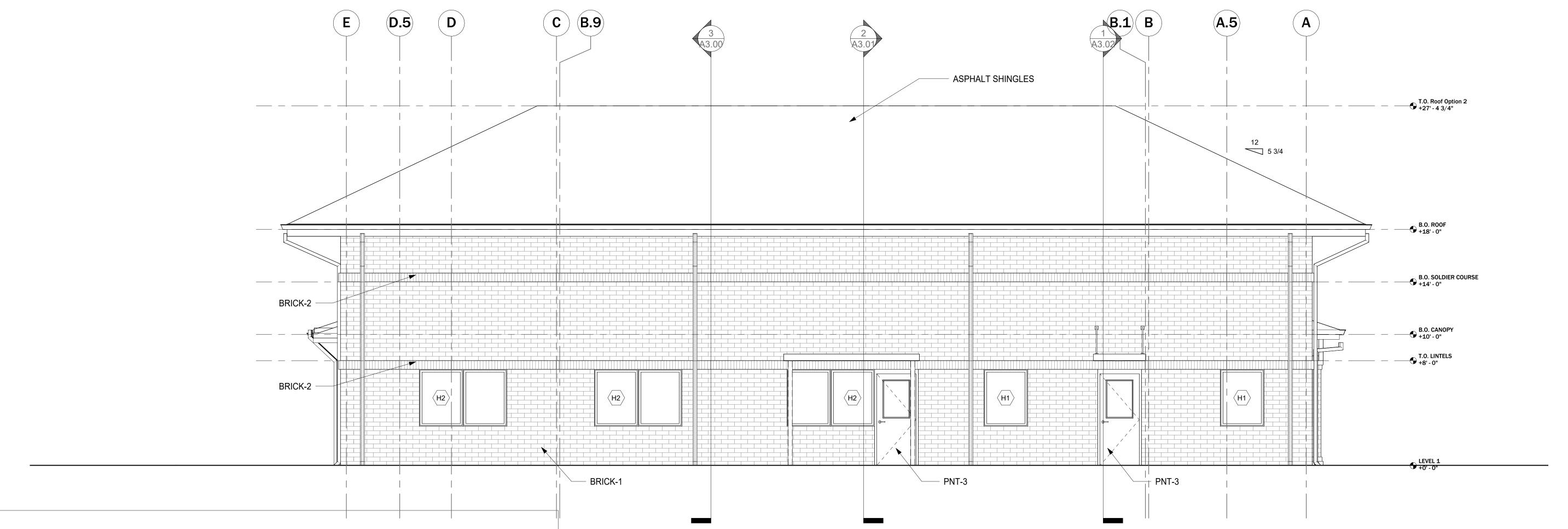
22125

SHEET TITLE EXTERIOR

SHEET NO.

PROJECT NO.

ELEVATIONS



EXTERIOR FINISHES:

MORTAR

1 WESTERN ELEVATION

BRICK-1 ACME MUSHROOM BROWN, MODULAR SIZE ACME DOESKIN, MODULAR SIZE BRICK-2

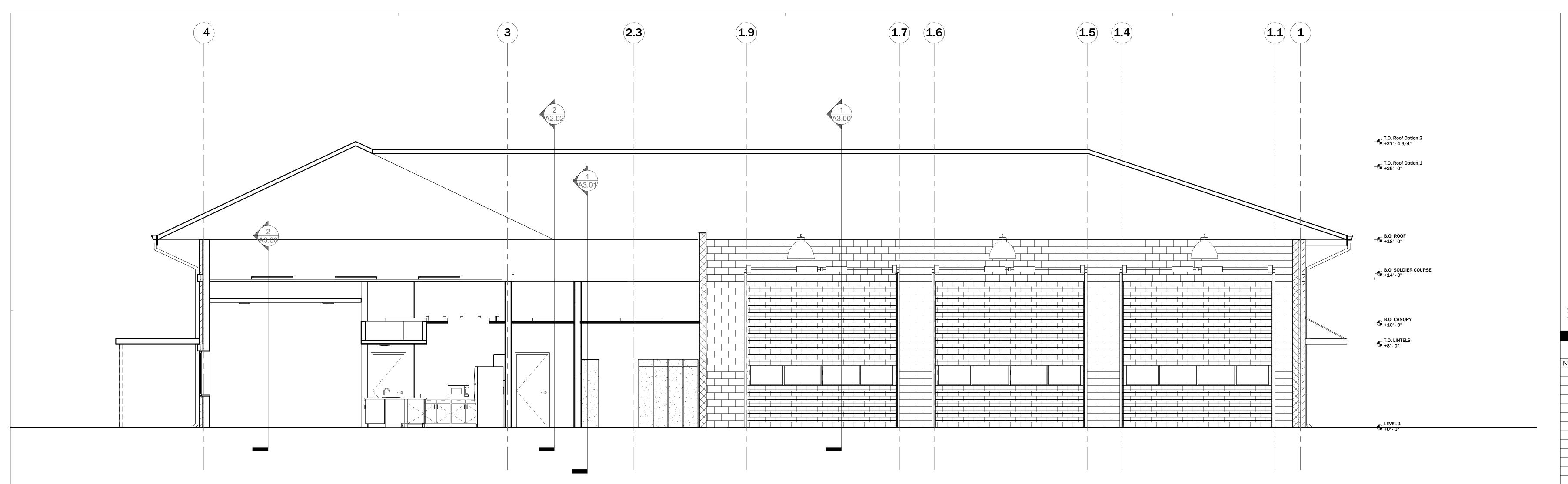
GMS KOOSA LIGHT BUFF

ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED. PNT-3

PNT-5 PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK

ASPHALT SHINGLE GAF AMBER WHEAT

2 EASTERN ELEVATION





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

N	0	RELE	45	SED FOR CONSTRUCTION
				REVISIONS REVISIONS
No.	•	Date		Description
	•	03/06/24		Issued for Bid
	•		۰	
	•		۰	
	۰		۰	
	۰		۰	
	۰		۰	
	•		۰	
	۰		۰	
	•		•	
	•		•	
	•		•	
	۰		۰	



1/4" = 1'-0"

Gardner

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

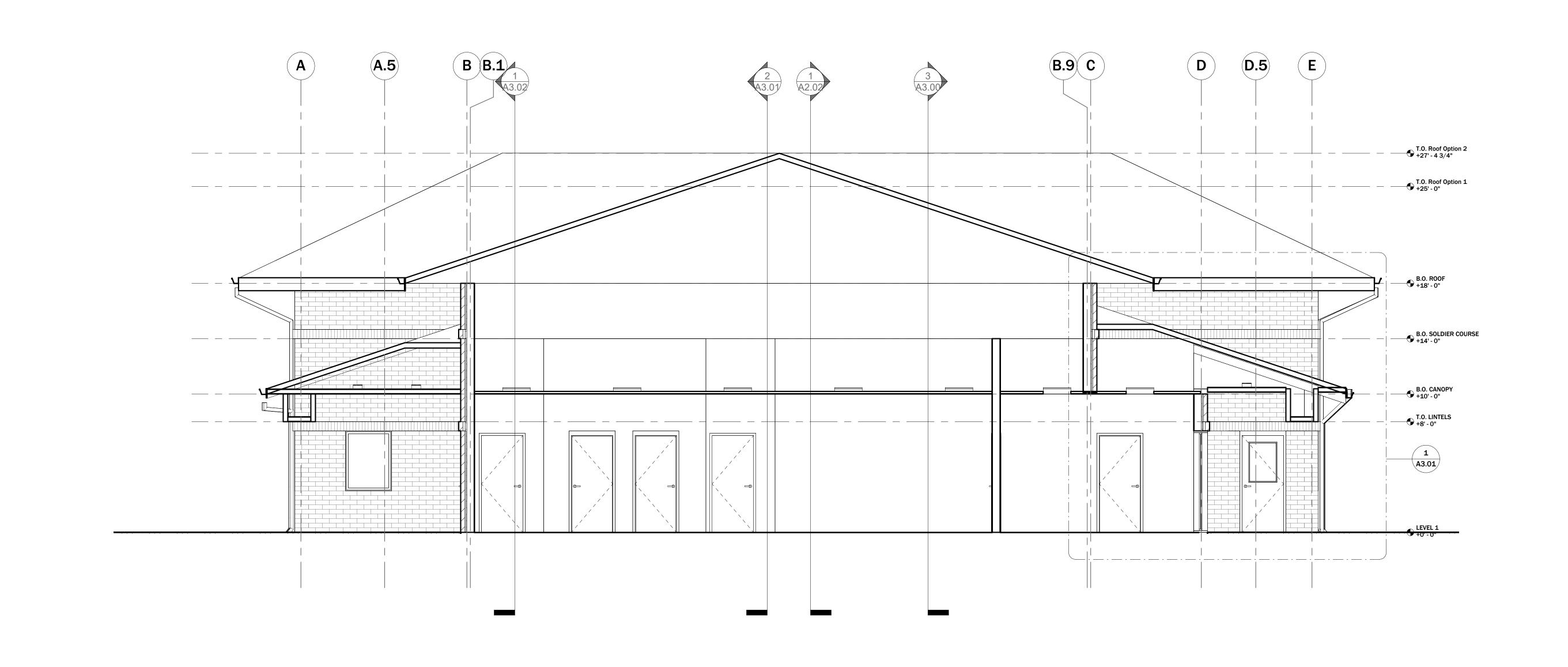
22125

BUILDING SECTIONS

SHEET NO.

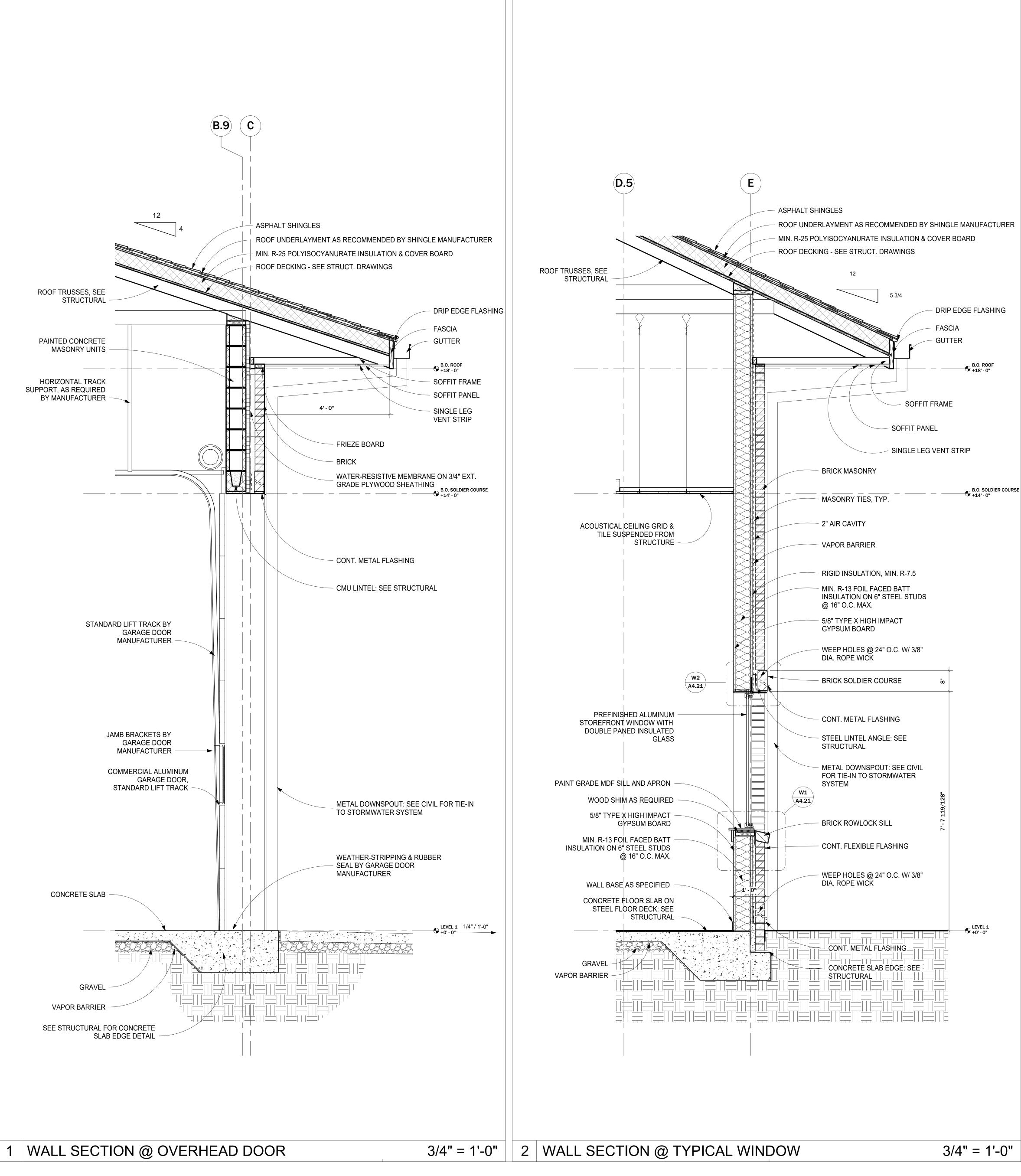
PROJECT NO.

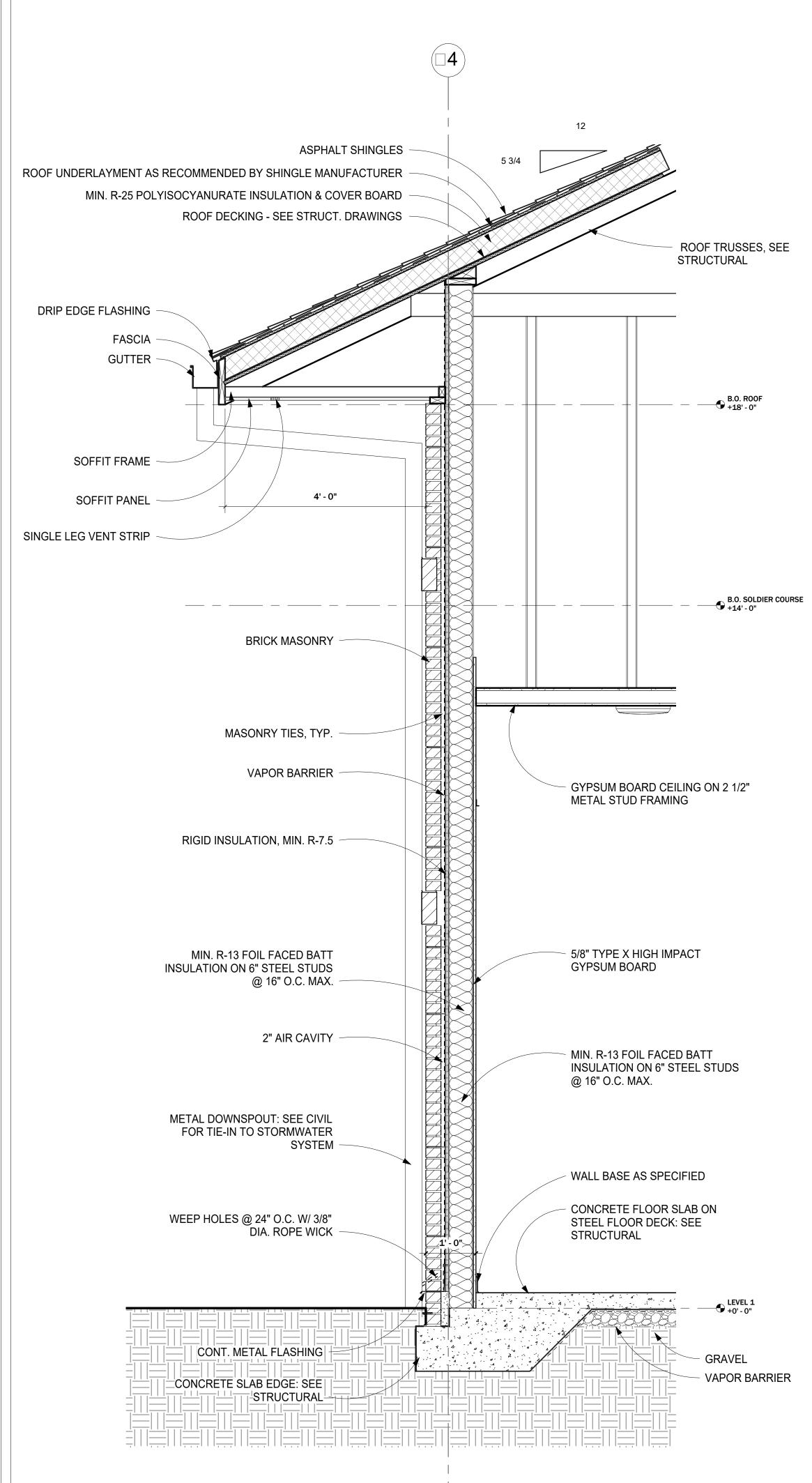
• A2.02



1 SECTION 01

2 SECTION 02







365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION. Description Issued for Bid

Gardner Spencer Smith

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

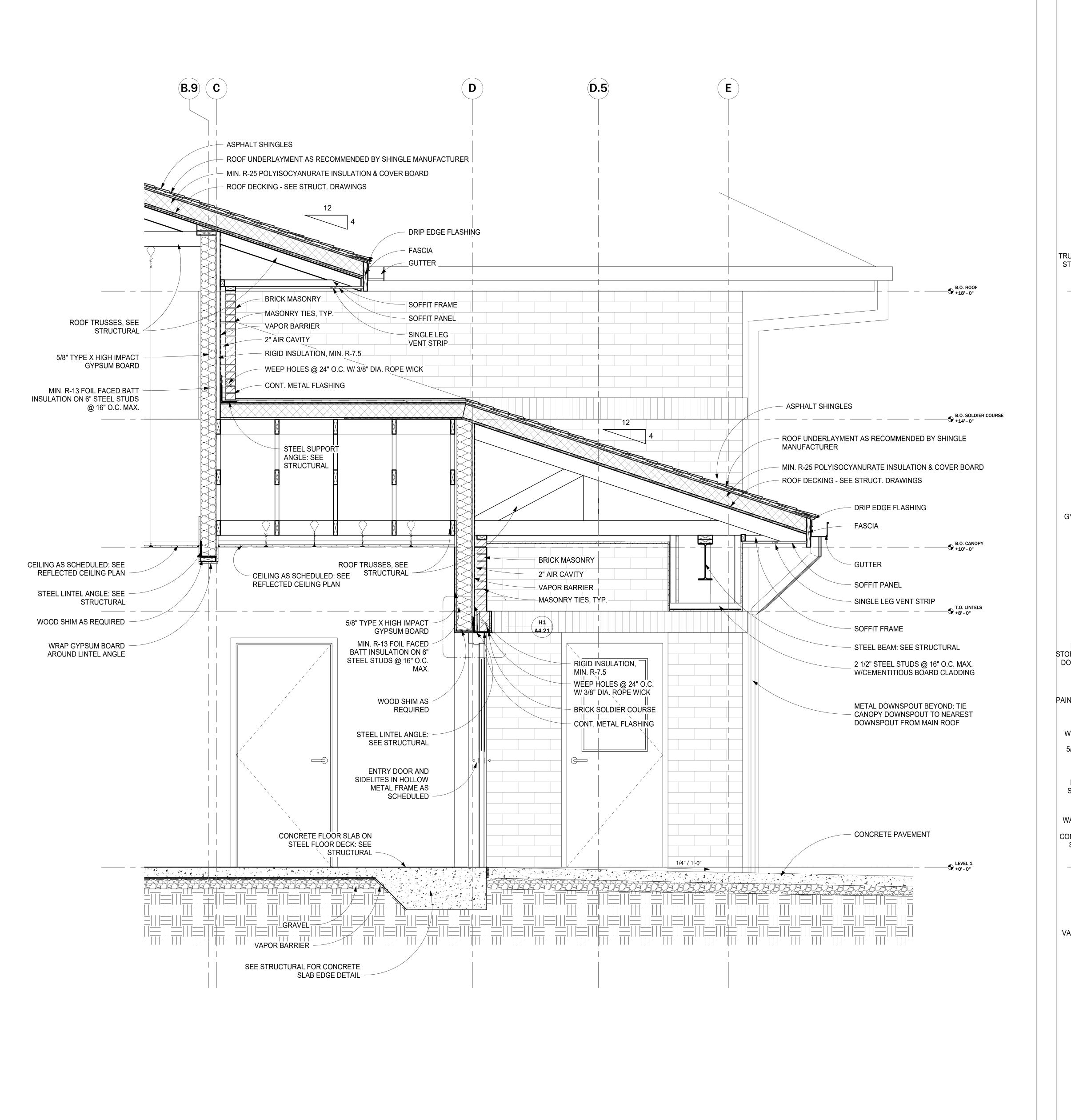
22125

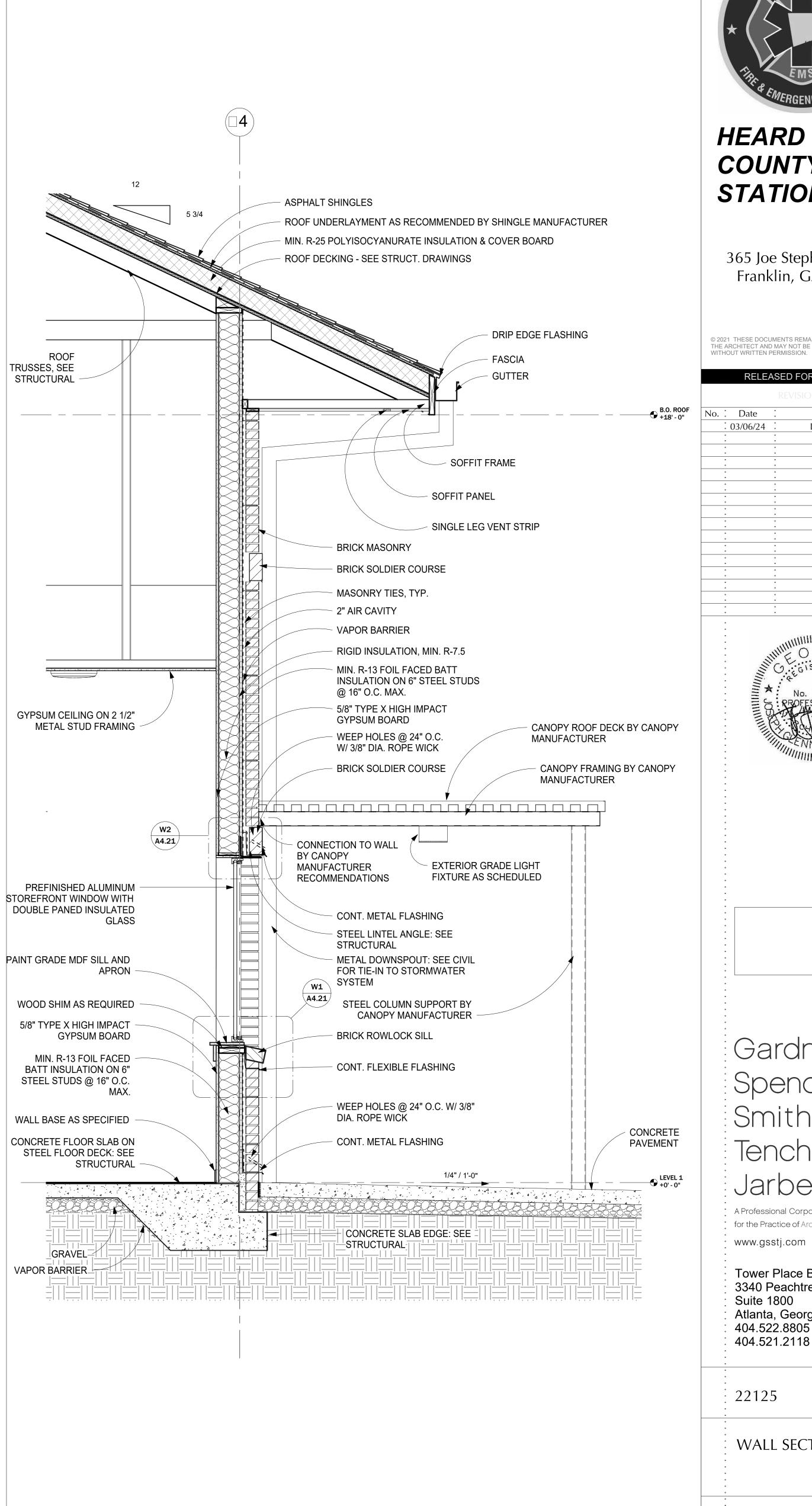
3/4" = 1'-0"

SHEET TITLE WALL SECTIONS

SHEET NO. A3.00

PROJECT NO.







COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

Description

Issued for Bid

 $\ensuremath{@}$ 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.



Smith

A Professional Corporation for the Practice of Architecture

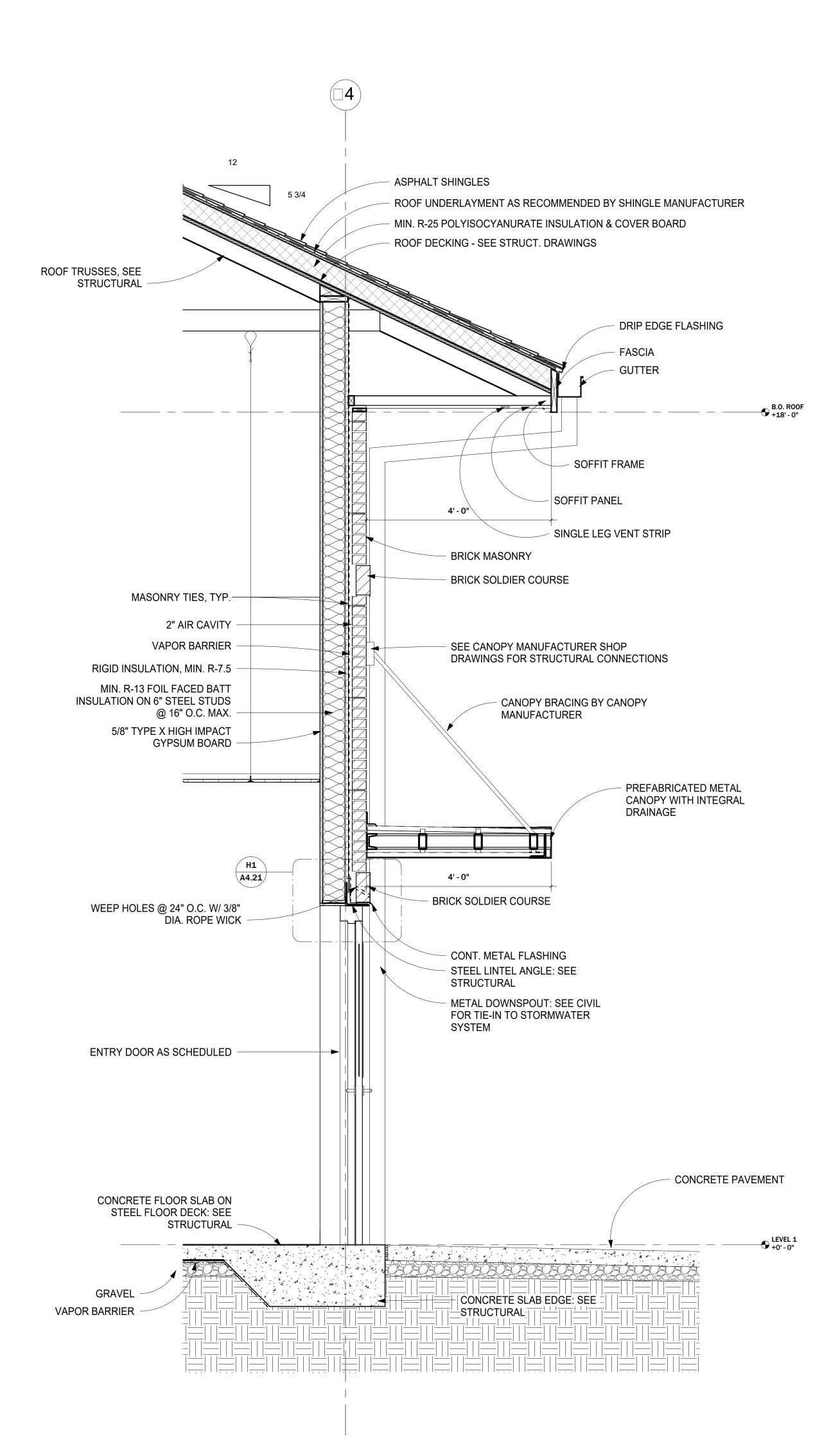
Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

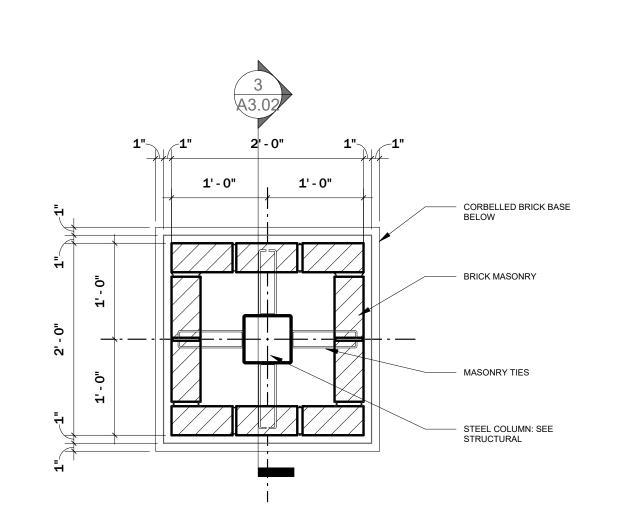
PROJECT NO.

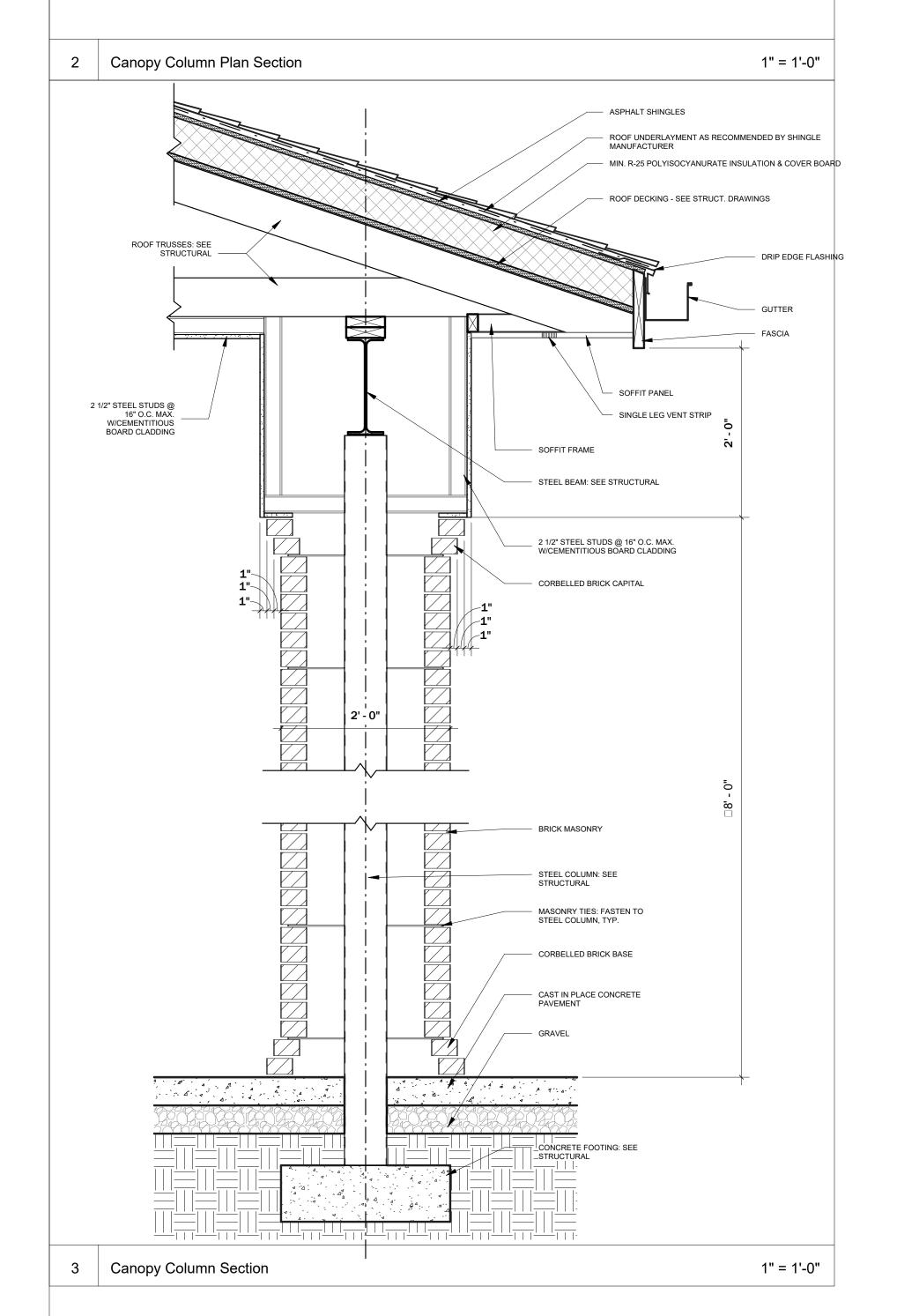
SHEET TITLE WALL SECTIONS

A3.01

SHEET NO.









365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE/	RELEASED FOR CONSTRUCTION		
		R	REVISIONS	REVISIONS
No.:	Date	•	Desci	ription
. (03/06/24		Issued	for Bid
•				
•				
•				
•				
•				
•				
•				
•				
•		•		
•		•		
•		•		
•		•		
•				
۰		٠		



Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporationfor the Practice of Architecturewww.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

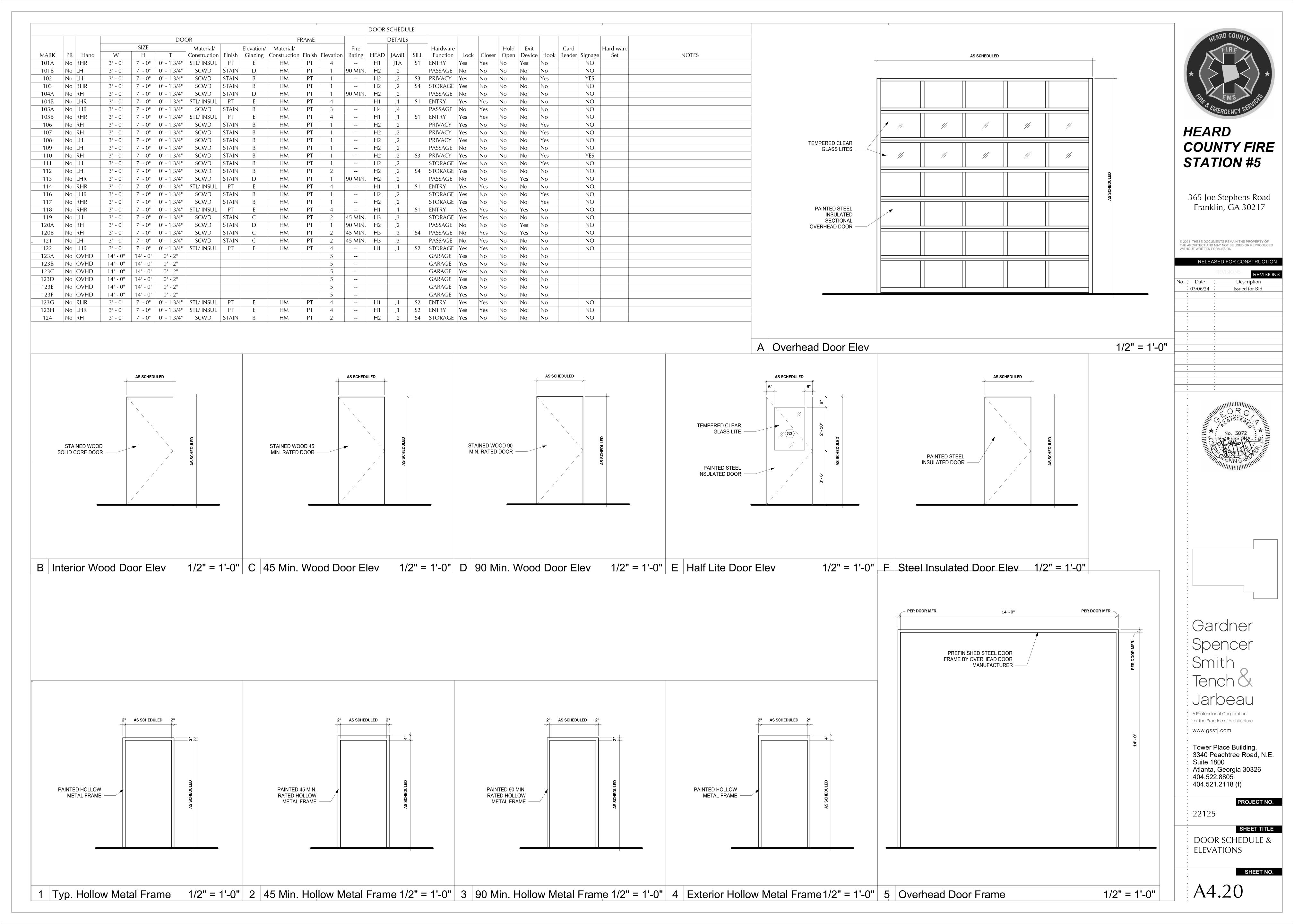
: : 22125

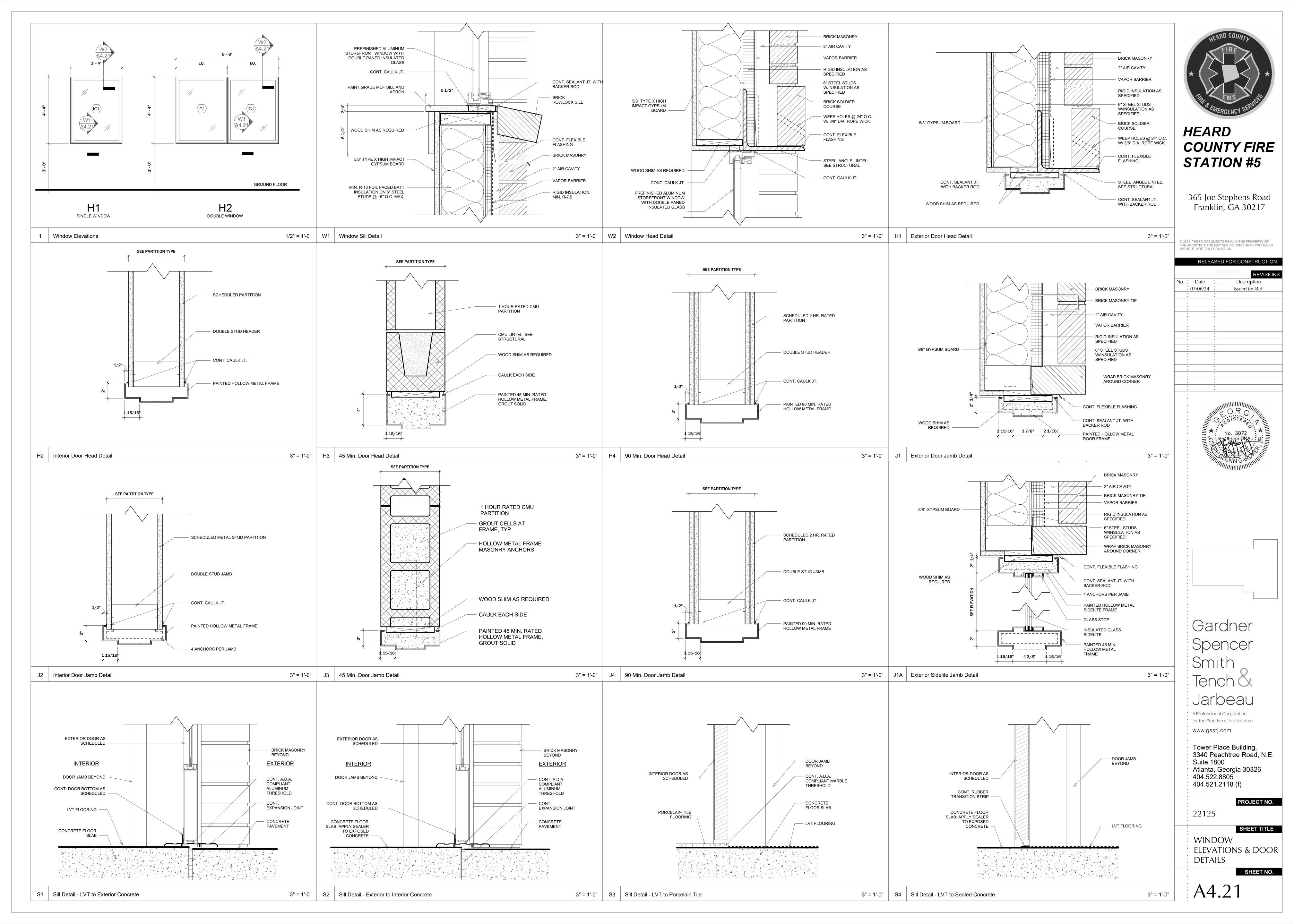
SHEET TITLE
WALL SECTIONS

SHEET NO.

PROJECT NO.

A3.02





INTERIOR FINISH SCHEDULE							
		FLC	FLOOR WALLS			LS	
ROOM#	ROOM NAME	SUBSTRATE	FLOOR	BASE	SUBSTRATE	WALL	NOTES
101	LOBBY	CONC	LVT	RB	GYP	PNT	ACCENT PNT
102	RR	CONC	PT	PTB	GYP	PNT & PT	PT ON WET WALL
103	JAN	CONC	SC	RB	GYP	FRP & PNT	
104	CORRIDOR	CONC	LVT	RB	GYP	PNT	
105	CORRIDOR	CONC	LVT	RB	GYP	PNT	
106	BEDROOM 1	CONC	LVT	RB	GYP	PNT	
107	BEDROOM 2	CONC	LVT	RB	GYP	PNT	
108	BEDROOM 3	CONC	LVT	RB	GYP	PNT	
109	LAUNDRY	CONC	PT	PTB	GYP	PNT	
110	BATHROOM	CONC	PT	PTB	GYP	PNT & PT	PT ON WET WALL, SS & PLAM
111	STORAGE	CONC	LVT	RB	GYP	PNT	
112	I.T.	CONC	SC	RB	GYP	PNT	
113	KITCHEN	CONC	LVT	RB	GYP	PNT	CT ON WET WALL & SS
114	DAY ROOM	CONC	LVT	RB	GYP	PNT	
115	DINING ROOM	CONC	LVT	RB	GYP	PNT	ACCENT PNT
116	STORAGE	CONC	LVT	RB	GYP	PNT	
117	STORAGE	CONC	LVT	RB	GYP	PNT	
118	VOTE	CONC	LVT	RB	GYP	PNT	
119	GEAR	CONC	SC	RB	GYP	PNT	
120	CORRIDOR	CONC	CONC	RB	GYP	PNT	
121	DETOX	CONC	SC	RB	GYP	PNT	
122	MECH.	CONC	SC	RB	GYP	PNT	
123	APPARATUS BAY	CONC	CONC	RB	CMU	PNT	
124	ELEC.	CONC	SC	RB	GYP	PNT	

INTERIOR FINISHES KEY:

TBD

CG CORNER GUARDS CONC CONCRETE CT CERAMIC TILE FRP FIBER REINFORCED POLYMER PANELS GRT

TO BE DETERMINED

GYPSUM WALL BOARD **GWT OR GYP** LUXURY VINYL TILE NIC NOT IN CONTRACT **OPEN TO STRUCTURE** PLASTIC LAMINATE PLAM **PNT** PT PORCELAIN TILE PORCELAIN TILE WALL BASE RUBBER BASE SEALED CONCRETE SOLID SURFACE

TYPICAL

WOOD DOORS

INTERIOR FINISHES:

- CORNER GUARDS BY KOROSEAL INTERIOR PRODUCTS, KOROGUARD WALL PROTECTION SYSTEMS, STYLE: #G100 VINYL CORNER GUARD, COLOR: SAND, TEXTURE: P1 DUNE. CORNER GUARDS ARE TO BE INSTALLED ON THE ENTIRE HEIGHT OF EACH CORNER.
- CERAMIC TILE BY TILEBAR, STYLE: KENT, COLOR: MARINE, SIZE: 2.6" X 13" HEXAGON, FINISH: POLISHED. THIS IS ONLY FOR THE BACKSPLASH IN THE KITCHEN.
- GROUT BY LATICRETE, #61 PARCHMENT. THIS GROUT IS TO BE PT-1 & PTB.
- GROUT BY LATICRETE, #88 SILVER SHADOW. THIS GROUT IS TO BE USED WITH CT-1 AND PT-3.
- LUXURY VINYL TILE BY SHAW CONTRACT, STYLE: IN UNISON 5.0 #4430V, COLOR: SANDY DUNE #91240, SIZE: 9" X 36", INSTALLATION METHOD: MONOLITHIC
- PLASTIC LAMINATE BY ARBORITE, STYLE: NATURAL CHAMOIS #P332-CA
- BASE PAINT BY SHERWIN WILLIAMS, #SW 6107 NOMADIC DESERT, THROUGHOUT UNLESS OTHERWISE NOTED.
- PNT-2 HOLLOW METAL FRAME PAINT BY SHERWIN WILLIAMS, #SW 9108 DOUBLE LATTE. THIS PAINT IS ONLY FOR HOLLOW METAL FRAMES.
- ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED.
- CEILING PAINT BY SHERWIN WILLIAMS, #SW 7007 CEILING BRIGHT WHITE. THIS PAINT IS ONLY FOR GYP CEILINGS.
- PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK. PNT-5
- PT-1 PORCELAIN TILE BY TILE BAR, STYLE: KENRIDGE, COLOR: MAPLE, SIZE: 8" X 48". THIS TILE IS ONLY FOR FLOORS IN RESTROOM & BATHROOM.
- PT-2 PORCELAIN TILE BY TILEBAR, STYLE: KENRIDGE RIBBON, COLOR: MAPLE. SIZE: 24" X 48", INSTALLATION METHOD: MONOLITHIC (DESIGN IS TO RUN VERTICAL. IF IN DOUBT SEND RFI TO ARCHITECT.) THIS TILE IS ONLY FOR WET WALLS IN RESTROOM AND BATHROOM. CONTRACTOR TO FURNISH AND INSTALL SCHLUTER FINISHING STRIPS AS NEEDED. THE FINISH SHALL MATCH THE FINISH ON THE FAUCETS...
- PORCELAIN TILE BY TILEBAR, STYLE: LEVEL 1" HEXAGON, COLOR: WHITE, FINISH: MATTE. THIS TILE IS ONLE FOR THE FLOOR OF THE PT-3 SHOWER.
- PORCELAIN TILE BASE BY TILEBAR, STYLE: KENRIDGE, COLOR: MAPLE, SIZE: 4" X 48". TILE NEEDS TO BE CUT IN FIELD. CONTRACTOR TO FURNISH INSTALL SCHLUTER FINISHING STRIPS ON CUT EDGES. SCHLUTER FINISHING STRIPS SHALL MATCH FINISH OF FAUCETS.
- RUBBER BASE BY ROPPE, #632 FLAX
- SS SOLID SURFACE BY LX HAUSYS, STYLE: HI-MACS, COLOR: KALA CHANA #W012
- WD WOOD DOORS BY VT ARCHITECTURAL WOOD DOORS, SPECIES: SELECT WHITE BIRCH, COLOR: RAVINE #RA18

INTERIOR FINISH NOTES:

- 1. ALL EXTERIOR WINDOWS SHALL RECEIVE BUILDING STANDARD
- WINDOW TREATMENT, UNLESS OTHERWISE NOTED. ALL FLOORING SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS REGARDING ADHESIVES, SEAMING, DIRECTIONS,
- ALL TRANSITIONS IN FLOOR MATERIALS SHALL OCCUR UNDER THE
- CENTERLINE OF THE CLOSED DOOR WHERE APPLICABLE. 4. ALL WALLS SHALL BE PAINTED PNT-1, UNLESS OTHERWISE NOTED. ALL GRILLES, DIFFUSERS, AND ACCESS PANELS SHALL BE PAINTED TO MATCH THE WALL OR CEILING ON WHICH THEY ARE LOCATED UNLESS
- NOTED OTHERWISE. ALL PAINTED METAL SHALL RECEIVE MANUFACTURER'S RECOMMENDED PRIMER COAT AND TWO (2) COATS OF LATEX SEMI-
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SAMPLES TO GSSTJ FOR APPROVAL PRIOR TO PURCHASE OF PRODUCT. THE
- SAMPLES MUST BE LABELED BEFORE SUBMITTING TO GSSTJ. ALL INTERIOR FINISHES REQUIRED ARE INCLUDED IN THESE DRAWINGS. SOME PRODUCTS HAVE A LONGER LEAD TIME AND ARE NOT GUARANTEED TO BE IN STOCK. SUBCONTRACTORS SHALL PLACE
- ORDERS IMMEDIATELY UPON AWARD OF PROJECT TO AVOID THE USE OF INTERMEDIATE FINISHES. THE RESTROOM AND BATHROOM SHALL RECEIVE PT-2 ON THE WET
- WALLS AND WHERE THE TILE TURNS CORNERS. REFERENCE INTERIOR ELEVATIONS FOR LOCATIONS. PT-1 SHALL BE INSTALLED ON THE FLOORS. PT-3 SHALL BE INSTALLED IN SHOWER PAN (FLOOR).
- 9. SUBCONTRACTOR TO FURNISH AND INSTALL SCHLUTER FINISHING STRIPS ON SHARP EDGES OF THE TILE. SCHLUTER FINISHING STRIPS FINISH SHALL MATCH THE FAUCETS.
- 10. ALL FLOORING SHALL BE CENTERED IN ROOMS. 11. UNEXPOSED PORTIONS OF CABINETS AND DRAWER INTERIORS SHALL
- BE WHITE MELAMINE.

EXTERIOR FINISHES:

BRICK-1 ACME MUSHROOM BROWN, MODULAR SIZE

BRICK-2 ACME DOESKIN, MODULAR SIZE MORTAR GMS KOOSA LIGHT BUFF

PNT-3 ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED.

PNT-5 PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK

ASPHALT SHINGLE GAF AMBER WHEAT

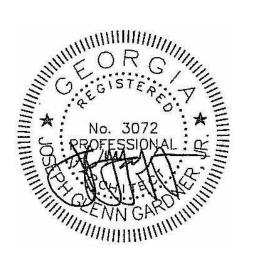


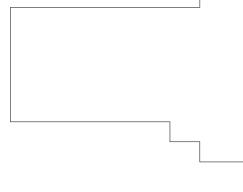
HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

NELE/	ASED FOR CONSTRUCTI
	REVISIONS REVISI
No. : Date	Description
. 03/06/24	: Issued for Bid
•	0
•	0
0	•
•	0
•	0
•	0
•	0
0	0
0	0
•	0
•	•





Gardner Smith

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

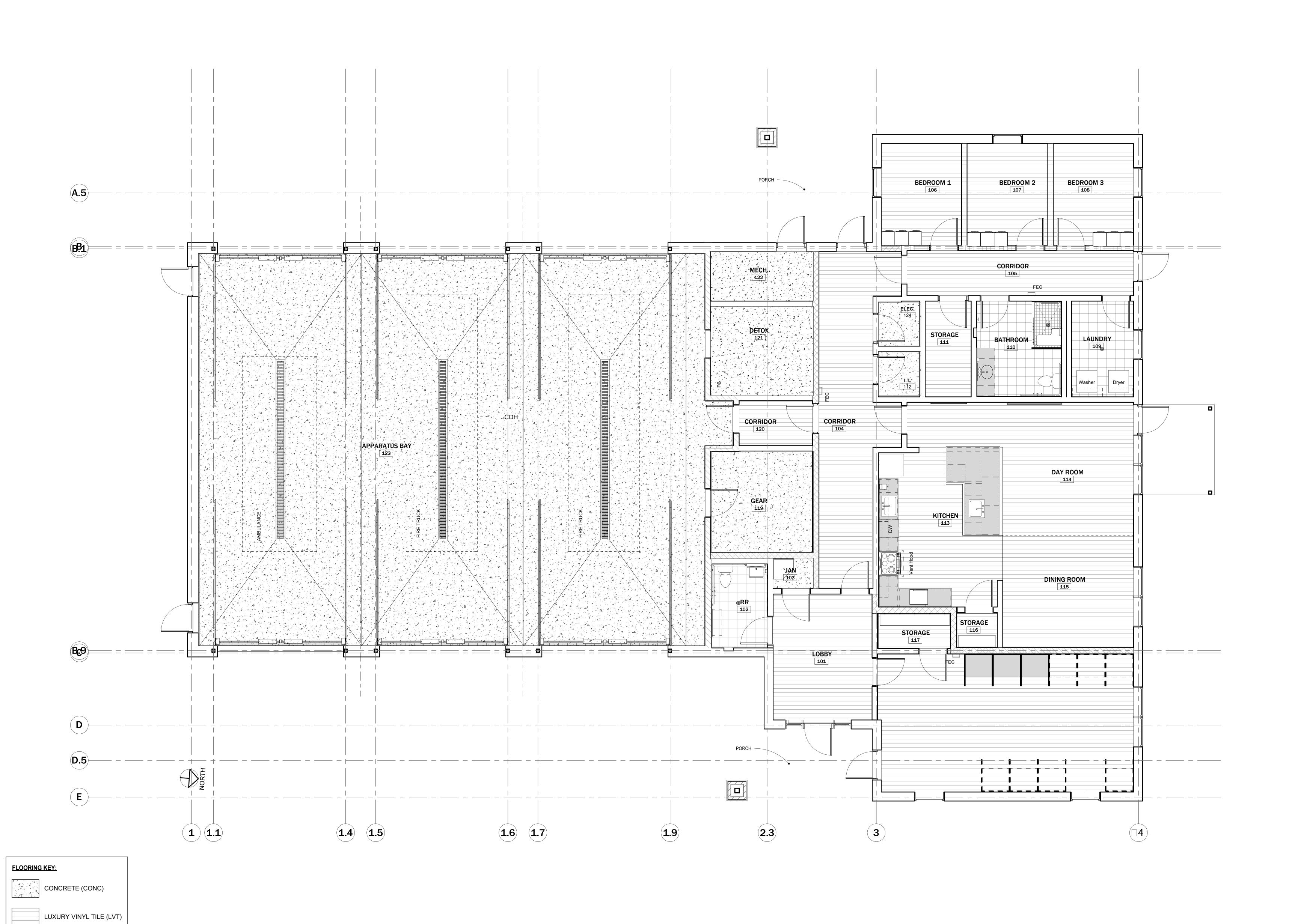
22125

SHEET TITLE FINISH LEGEND & SCHEDULE

SHEET NO.

PROJECT NO.

A5.00





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE/	ASEC	FOR CON	ISTRUCTION
		REV	VISIONS	REVISIONS
No.:	Date	•	Desc	ription
•	03/06/24	•	Issued	for Bid
•		•		
		•		
•		•		
0		•		
•		•		
•		•		
•		•		
•		•		
		•		
•		•		
0		•		
•		•		
•		•		
•		•		



Gardner
Spencer
Smith
Tench &

A Professional Corporation for the Practice of Architecture

www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

22125

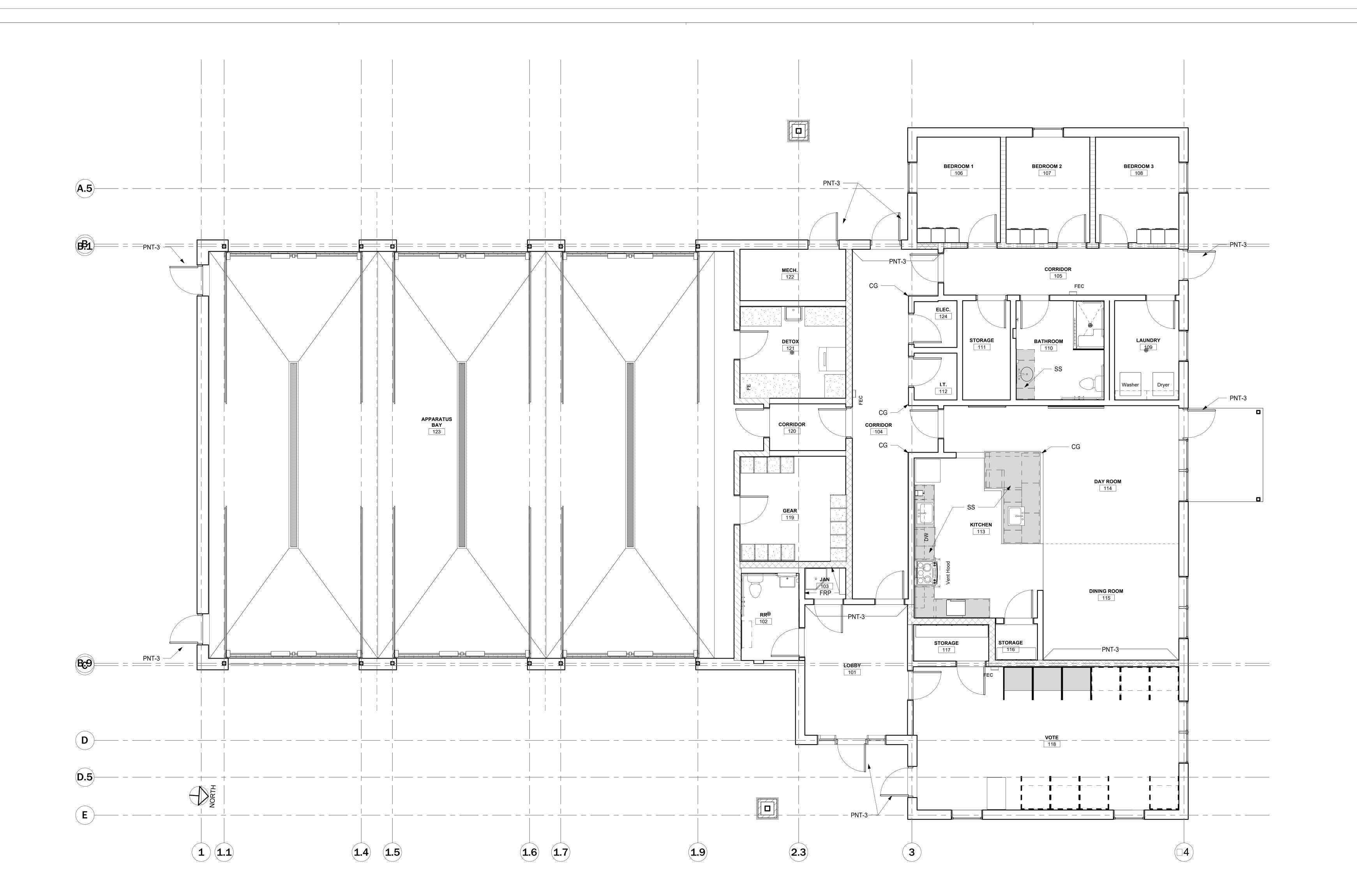
INTERIOR FLOORING PLAN

SHEET NO.

PROJECT NO.

A5.01

PORCELAIN TILE (PT)





365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

RELEASED FOR CONSTRUCTION				
		REVISIONS		
No.:	Date :	Description		
: 03	3/06/24 :	Issued for Bid		
۰	•			
•				
•	•			
•	•			
•	•			
۰	•			
•	•			
•	•			
•	•			
•	•			
•	•			
•	•			
۰	•			
•	•			
•				
0	•			
•	•			
0	0			
	•			





Jarbeau

A Professional Corporation

for the Practice of Architecture

www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

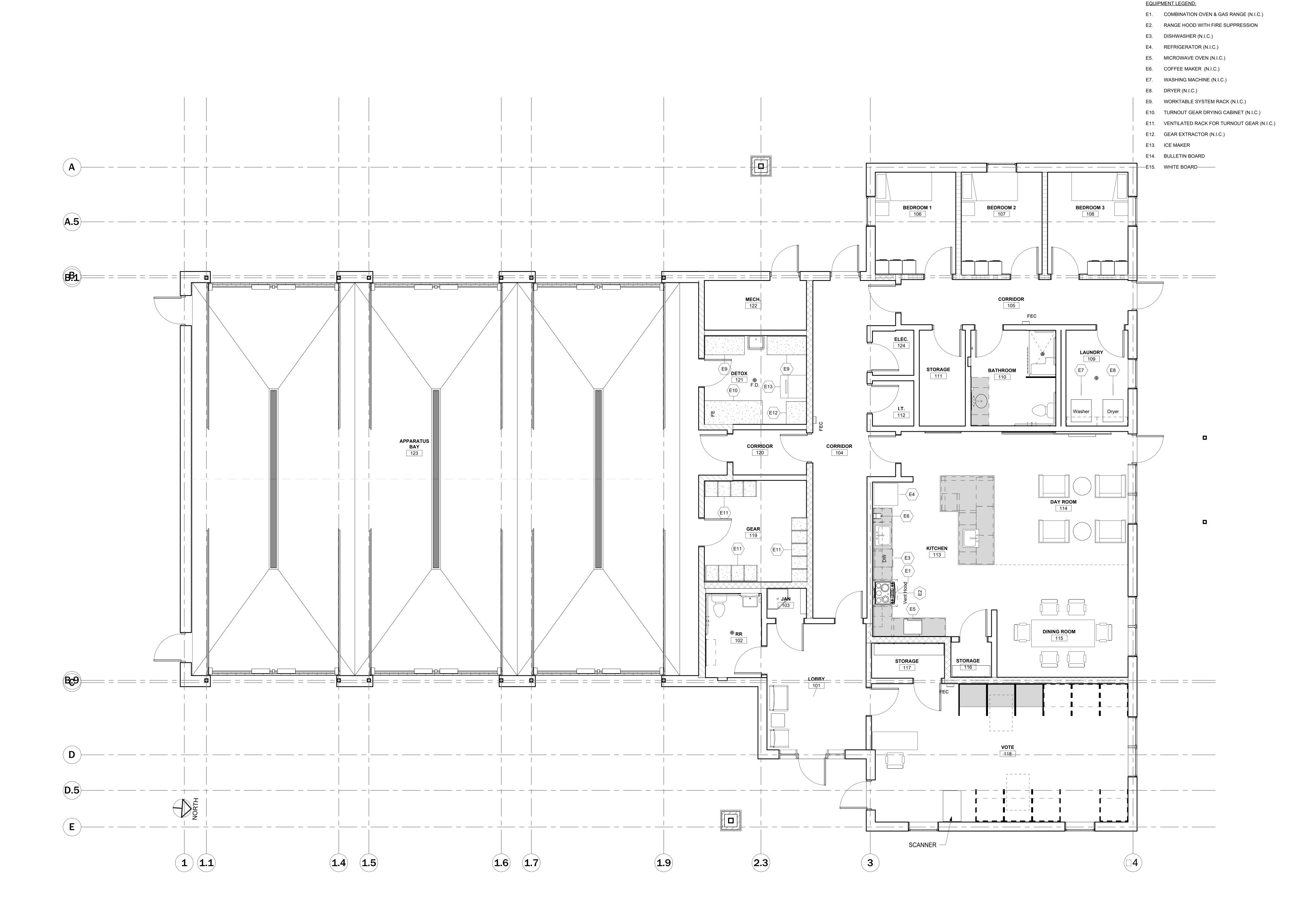
: : 22125

SHEET TITLE
INTERIOR - FINISH

PLAN

5 02

PROJECT NO.

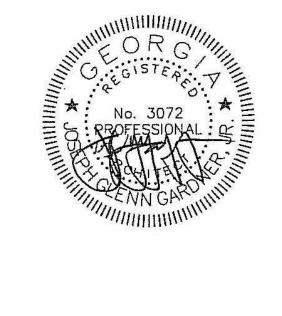




365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	ASED FOR CON	101110011011
		REVISIONS
No.: Date	: Desc	ription
: 03/06/24	i Issued	for Bid
* 03/00/21		TOT DIG
•	•	
•	۰	
0	۰	
•	•	
•	•	
•	•	
•	•	
•	•	
0	•	
•	۰	
•	•	
•	•	
	•	
0	•	
0	•	
•	•	
•	٠	
•	•	
•	•	
٠	۰	
0	۰	
٠	٠	
۰	٠	
•	•	



Gardner Spencer Smith Tench & Jarbeau

A Professional Corporation
for the Practice of Architecture
www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

: : 22125

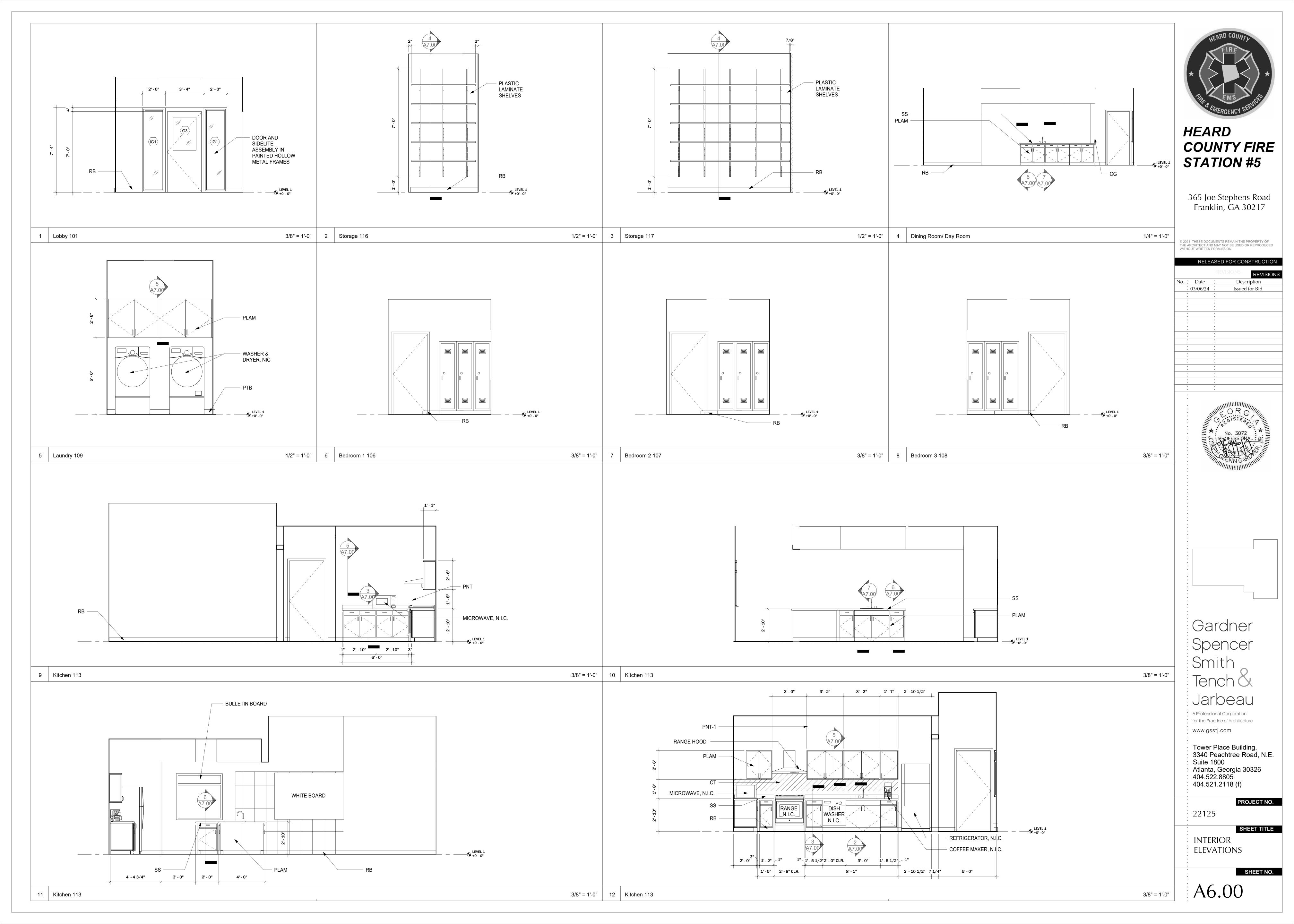
SHEET TITLE
FURNITURE &

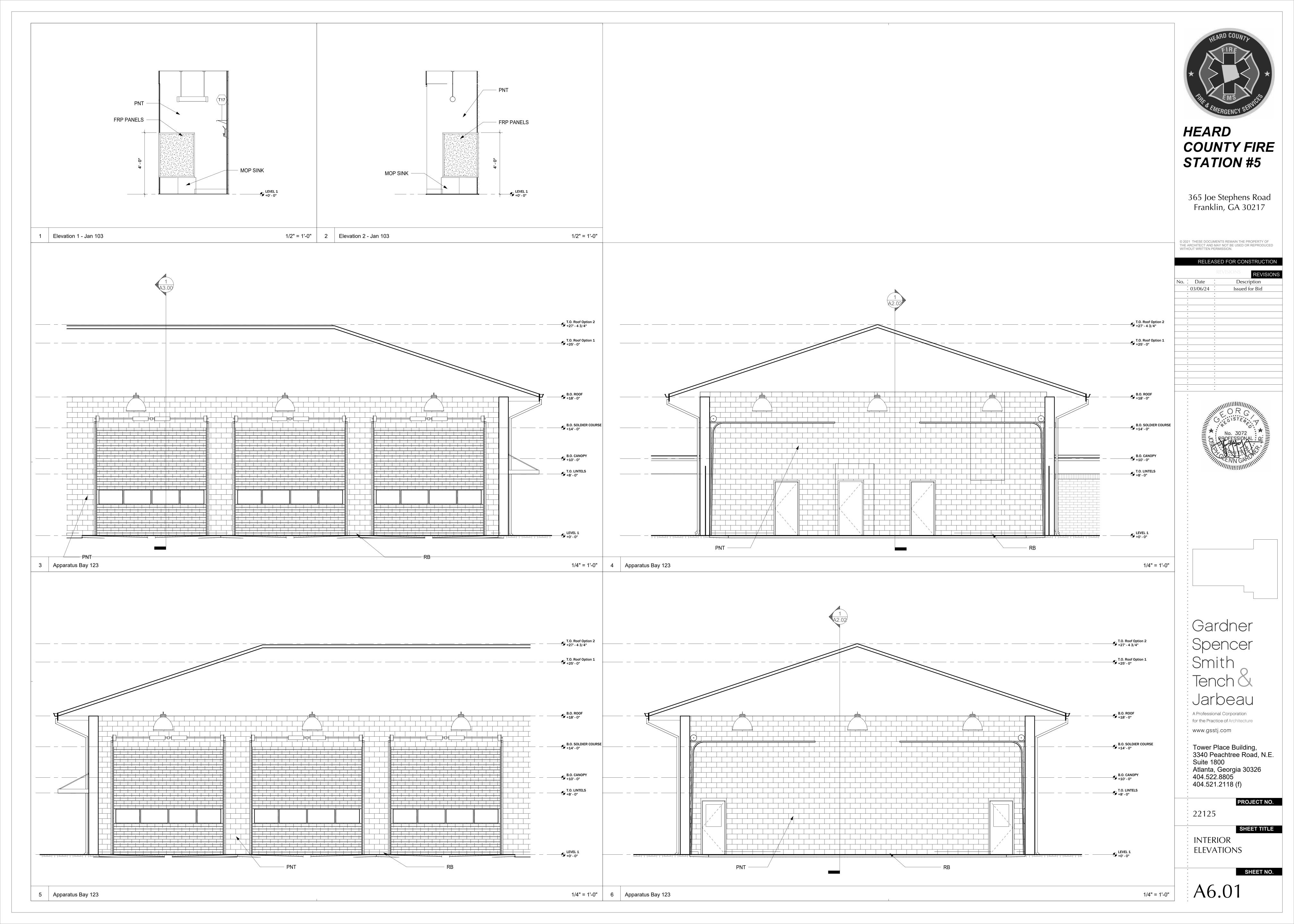
PROJECT NO.

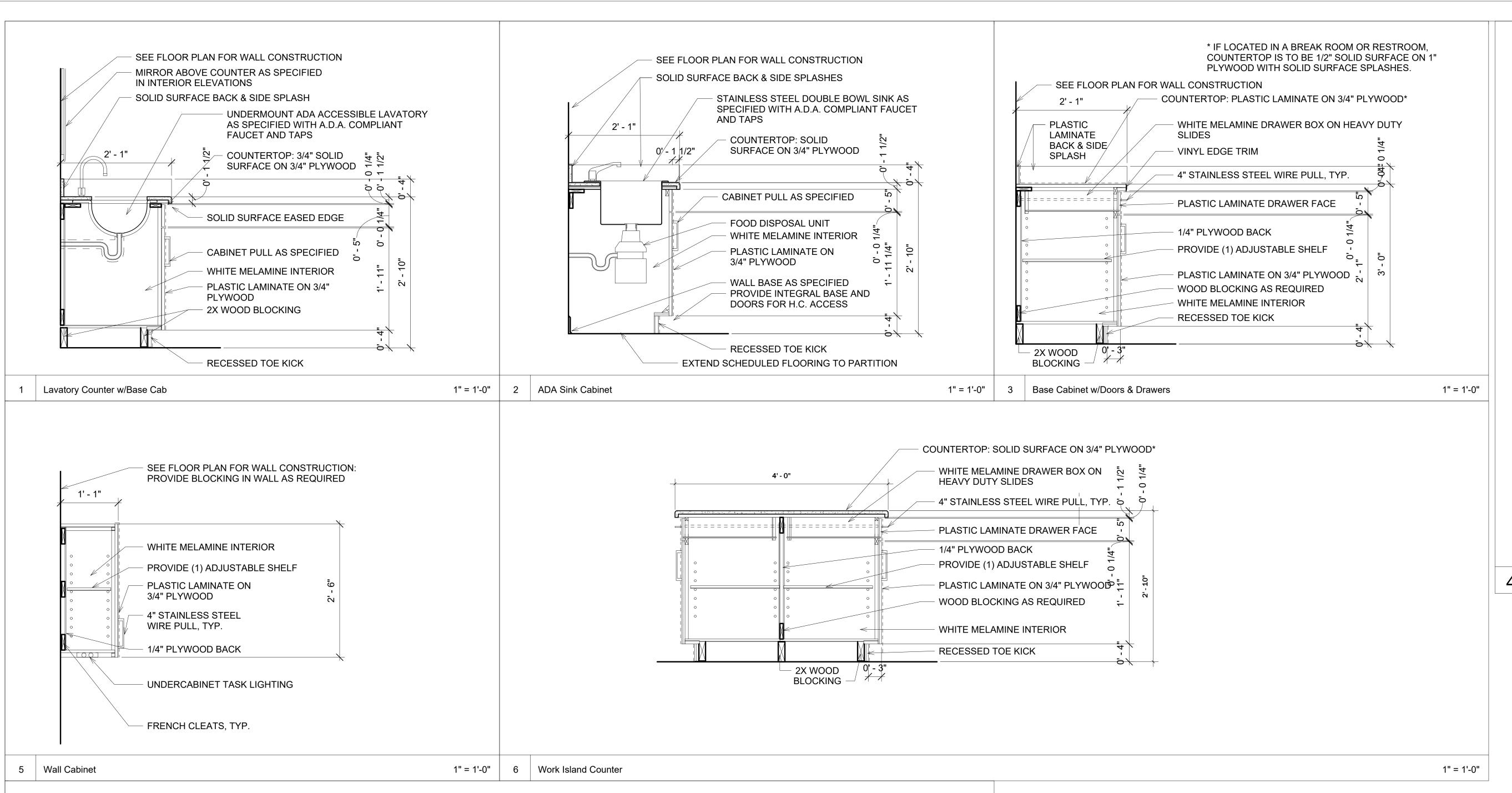
SHEET NO.

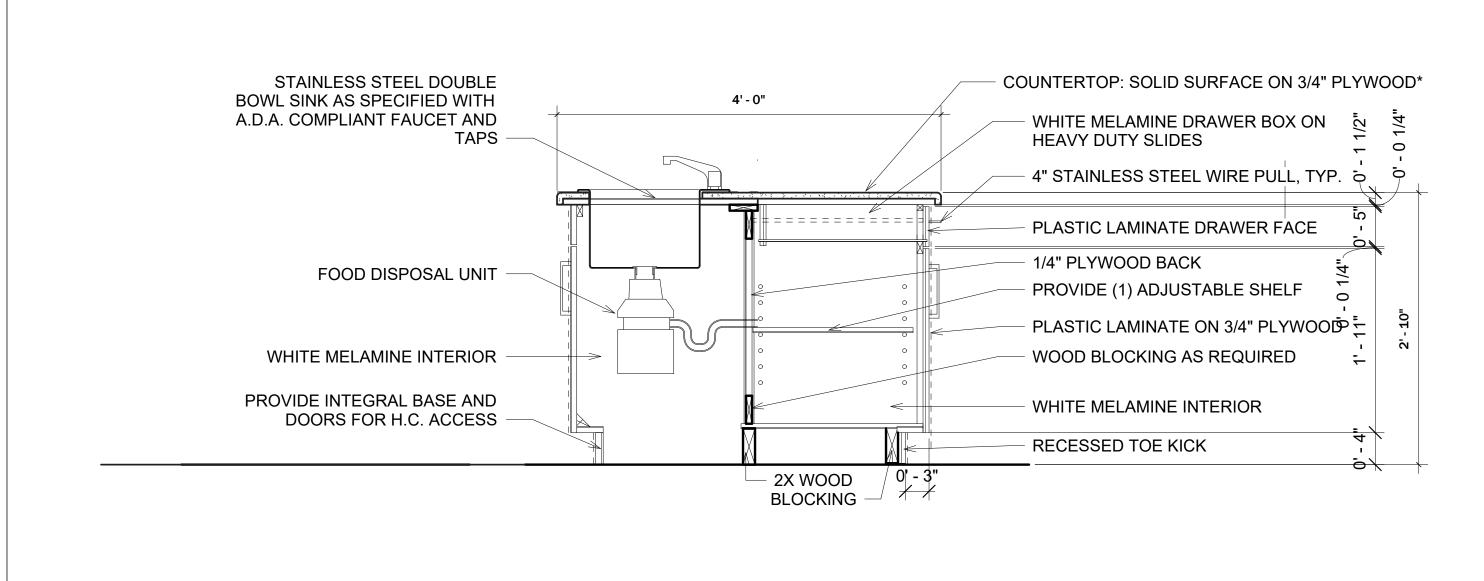
EQUIPMENT PLAN

A5.20

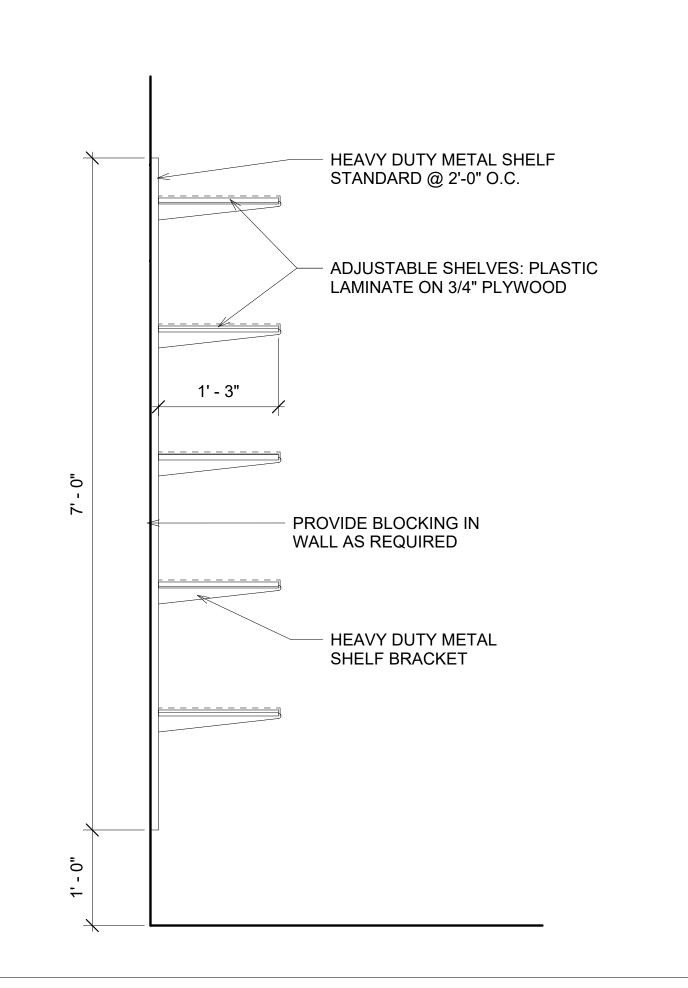








1" = 1'-0" 7 Work Island Sink Counter



4 5-High Adjustable Shelving

RELEASED FOR CONSTRUCTION No.: Date Description 03/06/24 Issued for Bid

1" = 1'-0"

HEARD

COUNTY FIRE

365 Joe Stephens Road

Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

STATION #5

Gardner Smith

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

22125

SHEET TITLE CASEWORK DETAILS

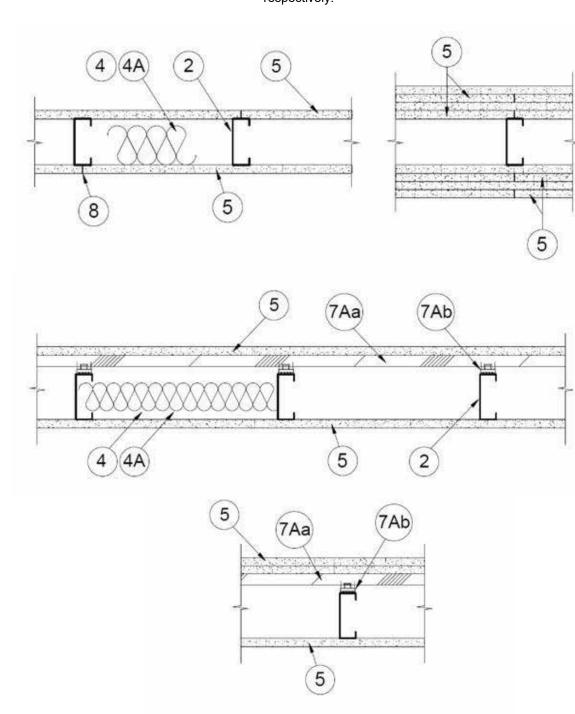
SHEET NO.

PROJECT NO.

A7.00

U.L. Design U419 August 16, 2023

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J) * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. 1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. CEMCO, LLC — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

11. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. 1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. 1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 20, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Track

10. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CEMCO, LLC — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height 2A. Steel Studs — (As an alternate to Item 2. For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only. CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ IMPERIAL MANUFACTURING GROUP INC — Viper25™

U.L. DESIGN U419, CONT'D.

2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CEMCO, LLC — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in, (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™

2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights 2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. EB METAL INC — NITROSTUD

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. OLMAR SUPPLY INC — PRIMESTUD

2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in, and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height. RESCUE METAL FRAMING, L L C — AlphaSTUD

20. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Stud

2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CEMCO, LLC — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in. 4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. Foamed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. Foamed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM. Enertite® G. FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP and Spraytite® 81205

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

	Gypsum Board Protection on Each Side of Wa	all	
Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
	3-1/2	1 layer, 5/8 in. thick	Optional
	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
	1-5/8	1 layer, 3/4 in. thick	Optional
	1-5/8	2 layers, 1/2 in. thick	Optional
	1-5/8	2 layers, 5/8 in. thick	Optional
	3-1/2	1 layer, 3/4 in, thick	3 in.
	1-5/8	3 layers, 1/2 in. thick	Optional
	1-5/8	2 layers, 3/4 in. thick	Optional
	1-5/8	3 layers, 5/8 in. thick	Optional
	1-5/8	4 layers, 5/8 in. thick	Optional
	1-5/8	4 layers, 1/2 in. thick	Optional
	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in, thick Type C, IP-X2, IPC-AR or WRC: 5/8 in, thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

U.L. DESIGN U419, CONT'D.

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base laver on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12). RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC. DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

	Gypsum B	Soard Protection on Each Side of Wall	
Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in, thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over study and staggered min 1 study cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to study with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

5L. Gvpsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC. 6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosionprotected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not 7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75)

clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips

secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick

RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

U.L. DESIGN U419, CONT'D.

KINETICS NOISE CONTROL INC — Type Isomax

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7 furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to study as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E. b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to stude as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E. b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.). Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO — Type AS

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in, wide, max 10 ft long with a max thickness of 0.140 in, Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. 12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other

locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to

have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". 12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". 13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations. 14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held

in place with standard adhesive tape if necessary. 15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in, on center. CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively Last Updated on 2023-08-16

U.L. Design HW-D-0184 June 26, 2023

ANSI/UL2079

Assembly Ratings — 1 and 2 Hr (See Item 2)

Nominal Joint Width - 3/4 In.

L Rating At A

L Rating At 4

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J) * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

CAN/ULC 5115

F Ratings — 1 and 2 Hr (See Item 2)

FT Ratings — 1 and 2 Hr (See Item 2)

vement Capabilities — 17% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item
t Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item
t 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 3/4
	Class II Movement Capabilities — 17% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin
	L Rating At 400 F — Less Than 1 CFM/lin
1A (2D)	1B 3

1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features: A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted units. B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. Spray-Applied Fire Resistive Materials (Optional) — (Not Shown) — Prior to or after the installation of the ceiling runner and prior to the installation of the Fill, Void or Cavity Materials (Items 2A and 3), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness to a max 11/16 in. (17 mm) thickness of fire resistive material. GCP APPLIED TECHNOLOGIES INC Type MK-6/HY

1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features: A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features: A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. B. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to or after the installation of the steel ceiling runners, and prior to the installation of

the Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design. 2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction



HEARD **COUNTY FIRE** STATION #5

365 Joe Stephens Road Franklin, GA 30217

2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

Date

03/06/24

RELEASED FOR CONSTRUCTION

Description

Issued for Bid

A Professional Corporation

for the Practice of Architecture

www.gsstj.com Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326

22125

404.522.8805

404.521.2118 (f)

SHEET TITLE U.L. DETAILS

PROJECT NO.

U.L. DESIGN HW-D-0184

A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. A1. Light Gauge Framing* - Slotted Ceiling Runner — As an alternate to the ceiling runner in (Item 2A), slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional sprayapplied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional sprayapplied material.

BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

A2. Light Gauge Framing* - Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened with runner. Slotted clip provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. A3. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to

consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. OLMAR SUPPLY INC — Type SCR

B. Steel Attachment Clips — (Optional - Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min. 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.

C. Studs — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

D. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel deck and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units. The hourly fire rating of the joint system is equal to the hourly rating of the wall.

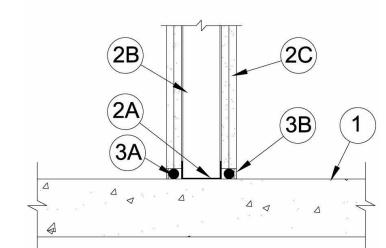
3. Fill, Void or Cavity Material* — Sealant - Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of the steel deck, flush with each surface of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S Elastomeric Firestop Sealant or CP 606 Flexible Firestop Sealant or CFS-S SIL GG Sealant. L Ratings apply when CP 606 or CFS-S SIL GG Sealant is used.

4. Forming Material — (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from both surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-06-26

Design No. BW-S-0059 November 5, 2020

ANSI/UL2079 Assembly Rating — 1 and 2 Hr (See Item 1) F Rating — 1 and 2 Hr (See Item 1) Nominal Joint Width - 1 In. FT Rating — 1 and 2 Hr (See Item 1) FH Rating — 1 and 2 Hr (See Item 1) FTH Rating — 1 and 2 Hr (See Item 1) Nominal Joint Width - 25 mm



1. Floor Assembly — Min 2-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. See Precast Concrete Units category in the Fire Resistance Directory for names of manufacturers.

2. Wall Assembly — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features: A. Floor and Ceiling Runners — Floor and ceiling runners may consist of either wood studs or steel channel studs. Wood runners to consist of nom 2 by 4 in. (51 by 102 mm). Steel runners to be min 3-1/2 in. (89 mm) wide. B. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber (or larger) spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. C. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. Wall to be constructed as specified in the individual Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the floor and the bottom of gypsum board.

3. Joint System — Max separation between bottom of floor and top of wall is 1 in. (25 mm). The joint system shall consist of the following: A. Packing Material — Polyethylene backer rod friction fit within joint opening. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

The hourly fire rating of the joint system is dependent on the hourly ratings of the walls.

B. Fill, Void or Cavity Material* Sealant — Min 1/4 in. (6 mm) depth of fill material applied within joint opening on both sides of wall, flush with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant or CFS-S SIL GG Silicone Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2020-11-05



HEARD **COUNTY FIRE** STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

RELEASED FOR CONSTRUCTION			
	REVISIONS		
No.: Date	: Description		
. 03/06/24	4 : Issued for Bid		
0	•		
•	o o		
•	o o		
•	o o		
•	0		
	o o		
•	0		
•	0		
•	•		
•	•		
•	•		
•			



•	Gardner
	Spencer
	Smith
	Tench &
	Jarbeau

A Professional Corporation for the Practice of Architecture www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. **Suite 1800** Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

PROJECT NO.

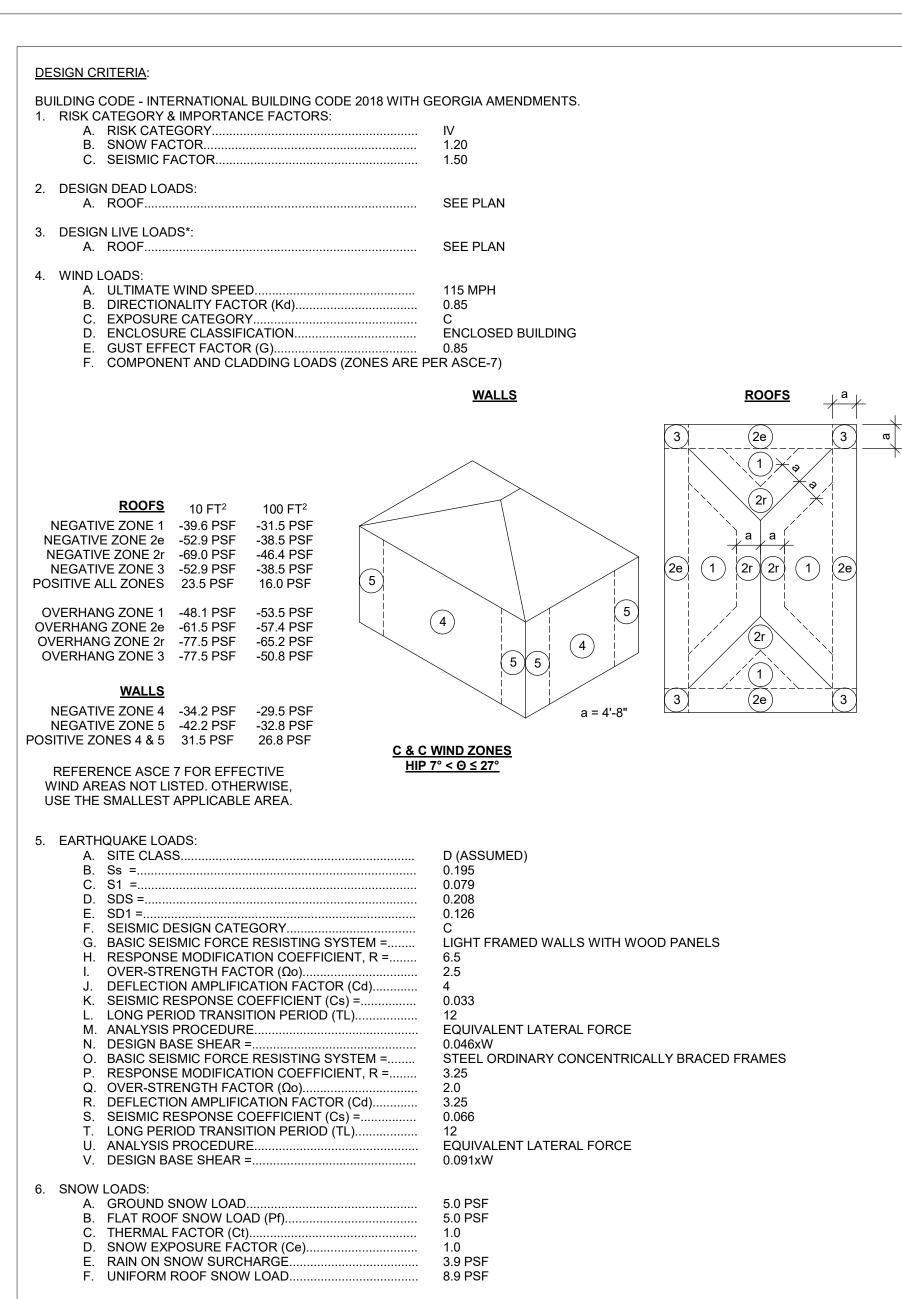
SHEET NO.

22125

SHEET TITLE

U.L. DETAILS

A8.01



SPECIAL INSPECTIONS:

SPECIAL INSPECTION AND A FINAL REPORT IN ACCORDANCE WITH IBC SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

- THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION ACCORDING TO THE SCHEDULE OF SPECIAL INSPECTIONS.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS. B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF
- RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED. C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

5. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:

- A. NOTIFY THE SPECIAL INSPECTOR THAT SPECIAL INSPECTIONS ARE NEEDED.
- B. COORDINATE THE SCHEDULING AND TIMELY NOTIFICATION OF THE SPECIFIC INDIVIDUALS NEEDED FOR THE SPECIAL INSPECTION
- PROVIDE DIRECT ACCESS TO THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT D. SUBMIT FABRICATORS CERTIFICATES OF COMPLIANCE, WELDER'S CERTIFICATES, AND OTHER REQUIRED
- DOCUMENTATION FOR REVIEW BY THE SPECIAL INSPECTOR. E. PROVIDE SAFE ACCESS TO THE WORK TO BE INSPECTED AND DELIVER SAMPLES FOR TESTING WHEN NEEDED.
- WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

THE CONTRACTOR/OWNER SHALL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE OWNER TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS. THE TESTING AGENCY

- SHALL BE LICENSED BY THE PROJECT STATE AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE PROJECT STATE. 2. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL
- SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE. THE TESTING AGENCY AND ITS REPRESENTATIVE ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR OR BE A PARTY TO
- SCHEDULING OF WORK. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT
- A MINIMUM OF TWENTY-FIVE PERCENT OF ALL SHOP AND FIELD COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE INSPECTED AT RANDOM. ALL FIELD COMPLETE OR PARTIAL PENETRATION GROOVE WELDS ALONG THE COLUMN BASE PLATES SHALL BE TESTED IN COMPLIANCE WITH THE GOVERNING CITY. MUNICIPAL OR FEDERAL BODY, IF THE TESTING REQUIREMENT, BOTH IN TERMS OF QUALITY AND QUANTITY, IS DIFFERENT THAN STATED ABOVE THE MORE STRINGENT OF THE TWO REQUIREMENTS SHALL BE FOLLOWED. ANY DEVIATION FROM THIS GUIDELINE IS SUBJECT TO THE ENGINEER OF RECORD'S APPROVAL.

- DEFERRED SUBMITTALS ARE DEFINED AS THE FOLLOWING PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD: A. PRE-MANUFACTURED WOOD TRUSSES B. STEEL STAIRS & LADDERS
- . COLD-FORMED METAL FRAMING D. HANDRAILS & GUARDS
- THE DEFERRED SUBMITTALS SHALL BE APPROVED BY THE PROJECT ARCHITECT AND/OR ENGINEER OF RECORD. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN AUTHORIZED BY THE BUILDING OFFICIAL.

- 1. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATES MAY IMPACT REVIEW SCHEDULE.
- 2. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING
- A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST. B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE ICC-ES, AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
- 3. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENT DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS AND CONTRACT SUPPLIERS.
- 4. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES HIM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY OCCUR HEREIN.

ADDITIONAL REQUIREMENTS.

- 1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR
- 2. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
- $3.\quad$ NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN OR TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 5. OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED
- 7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL THE TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- 8. DO NOT SCALE THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
- 9. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 10. WHERE A SECTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 11. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS
- 12. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZE AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL
- 13. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- 14. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS AS WELL AS ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 15. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ENCOUNTERED IN THE FIELD WHICH ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT
- 16. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
- 17. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED
- 18. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

FOUNDATIONS:

- 1. FOUNDATION DESIGN IS BASED ON ASSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWABLE NET BEARING PRESSURE OF 2.0 KSF UNDER FULL SERVICE LIVE AND DEAD LOAD WITH A MAXIMUM OF 1/2 INCH OF DIFFERENTIAL SETTLEMENT. A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE SHALL DETERMINE THE VALIDITY OF THESE ASSUMPTIONS AND THE ENGINEER OF RECORD SHALL BE NOTIFIED IF THE SOIL DOES NOT MEET ANY OF THE MINIMUM CRITERIA.
- 2. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING HOWEVER, IF ADEQUATE BEARING CAPACITY IS NON-EXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING
- SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS. 3. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT
- 4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZES AND DIMENSIONS, AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
- 5. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS AS IDENTIFIED BY THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY A SOILS ENGINEER. ROCKS OF A DIAMETER GREATER THAN THAT SPECIFIED SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS ACCORDING TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND COMPACTED TO A SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE.
- 6. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING ENGINEER PRIOR TO CASTING THE CONCRETE.
- 7. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

THE BASIS OF UNIT PRICES SET FORTH IN THE CONTRACT.

0-10 % PASSING...... A 3/8" SIEVE

0-5 % PASSING...... A #4 SIEVE

- 8. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW FINAL GRADE FOR FROST PROTECTION. 9. WHEN UNSATISFACTORY OR UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON
- 10. DRAINAGE FILL SHALL BE AN EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE, CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD C33, AND HAVING A GRADATION AS FOLLOWS:

100 % PASSING......A 3/4" SIEVE 10-30 % PASSING...... A 1/2" SIEVE

- 11. ANY FILL WITHIN 10'-0" OF THE BUILDING LIMIT SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER FOR PREPARATION.
- 12. BACKFILL AROUND AND OVER FOUNDATION ELEMENTS SHALL BE OF SUITABLE MATERIAL, INSPECTED AND PRE-APPROVED BY THE TESTING ENGINEER.
- 13. MAXIMUM SLOPE OF EXCAVATIONS SHALL BE IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT AND ADHERED TO. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
- 14. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- 15. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT
- 16. THERE SHALL BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- 17. CONCRETE CAST ON SLOPING SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

- 1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318 (LATEST ADDITION)
- 2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING: FOOTINGS & SLABS ON GRADE..
- 3. ALL CONCRETE SHALL HAVE A DENSITY OF 145 PCF UNLESS NOTED OTHERWISE.
- 4. CONCRETE SHALL BE ENTRAINED AS REQUIRED TO CONFORM TO DURABILITY REQUIREMENTS OF ACI 318.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR ALL UNIQUE CONCRETE APPLICATIONS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE PROJECT STATE. MIX DESIGN TEST DATA SHALL COMPLY WITH ACI 318 AND SHALL INCLUDE (AT A MINIMUM) AVERAGE 28 DAY STRENGTH, NUMBER OF SAMPLES, AND STANDARD DEVIATION (IF APPLICABLE). TEST RESULTS SHALL NOT BE MORE THAN 24 MONTHS OLD AT TIME OF SUBMITTAL
- REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.
- 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 60.
- 8. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/SLAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES
- 9. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE ACI DETAILING MANUAL.
- 10. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
- 11. REINFORCEMENT LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 (CLASS "B" WHERE APPLICABLE), UNLESS NOTED OTHERWISE. ALL CONTINUES REINFORCEMENT SHALL BE SPLICED AS REQUIRED.
- 12. PROVIDE 3" X 6" X 20 GAGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS-ON-GRADE.
- 13. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 14. PRODUCTS AND MATERIALS:
- A. TYPE I/II PORTLAND CEMENT SHALL CONFORM TO ASTM-C150.
- B. AGGREGATES SHALL CONFORM TO ASTM C-33. C. REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60).
- FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER. F. NON-SHRINK GROUT SHALL BE READY TO USE NON-METALLIC AGGREGATE AND DEVELOP A 7-DAY
- COMPRESSIVE STRENGTH OF 5000 PSI. 15. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE

SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST ADDITION OF THE CRSI "MANUAL OF STANDARD

16. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE:	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 BARS AND LARGER	2 INCHES
#5 BARS AND SMALLER	1-1/2 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
BEAMS AND COLUMNS	1-1/2 INCHES
SLABS, WALLS, AND JOISTS	3/4 INCHES

- 17. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER'S APPROVAL. WHERE WELDING IS APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL.
- 18. SLAB-ON-GRADE SHALL BE SAW CUT IMMEDIATELY AFTER CONCRETE HARDENS. THE CONTRACTOR SHALI
- SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT CUT" ® INTERNATIONAL OR SIM.) 19. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP IF CUT WITH A CONVENTIONAL SAW. OR 1" DEEP IF CUT WITH AN EARLY-ENTRY DRY-CUT SAW. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT
- LOCATION PRIOR TO PLACING CONCRETE. 20. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO THE SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME. SEVERAL SAWS MAY BE REQUIRED SO THAT JOINTS ARE PLACED IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF THE SLAB IS CRITICAL. REFER TO THE ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
- 21. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
- 22. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117, SLAB CLASS 5 (ACI 302) STANDARD TEST METHOD USING F NUMBERS. THE SPECIFIC FLATNESS AND LEVELNESS SHALL BE F/F-35 AND F/L-20.
- 23. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING, UNLESS
- 24. PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, UNLESS NOTED OTHERWISE.
- 25. WHERE DOWELS, BOLTS OR INSERTS ARE CALLED OUT TO BE ANCHORED TO CAST IN PLACE OR PRECAST CONCRETE ELEMENTS USING ADHESIVE ANCHORS, USE AN ANCHORAGE SYSTEM EQUAL TO "HILTI" HIT HY-200. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR APPROVAL.
- 26. PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
- 27. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE ACI 318.
- 28. ALL CONDUIT, SLEEVES AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM TO SECTION 6.3 OF ACI 318 AND THE FOLLOWING:
- A. SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS.
- B. THE CONCRETE COVERING OF PIPES AND SLEEVES SHALL NOT BE LESS THAN 1". CLEAR DISTANCE BETWEEN SUCH PIPES AND SLEEVES SHALL NOT BE LESS THAN 1-1/2". C. CONDUITS AND PIPES PLACED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-THIRD
- THE THICKNESS OF THE SLAB. IF IT IS NECESSARY TO USE LARGER CONDUIT OR PIPES, THE SLAB OR TOPPING SHALL BE THICKENED, THE JOIST OR SLAB RIB SHALL BE WIDENED AND REINFORCING SHALL BE ADDED TO SUPPORT THE ADDITIONAL WEIGHT OF THE CONCRETE.

Ö	ONCRETE	REINFOR	CEMENT	LAP LENC	TH SCHE	DULE	
BAR	f'c = 3,0	000 PSI	f'c = 4,0	000 PSI	f'c = 4,500 PSI		
SIZE	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	
#3	28"	22"	25"	19"	23"	18"	
#4	38"	29"	33"	25"	31"	24"	
#5	47"	36"	41"	31"	38"	30"	
#6	56"	43"	49"	37"	46"	35"	
#7	81"	63"	71"	54"	67"	51"	
#8	93"	72"	81"	62"	76"	59"	
NOTES	3.						

- WHERE THE CLEAR SPACING BETWEEN BARS BEING SPLICED IS LESS
- THAN (2) BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER INCREASE THE LAP LENGTH BY 50%.
- 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- 4. LAP SPLICE LENGTHS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE LAP SPLICE LENGTHS BY 30%.
- 5. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE 6. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINED TWO

MATTS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 530 (LATEST EDITION)

INTERSECTING WALLS AND JAMBS/LINTELS OF OPENING IN WALL.

- . MASONRY SHALL BE LIGHTWEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH, f'm, OF 1500 PSI BASED ON GROSS AREA. MORTAR SHALL CONFORM TO ASTM C270 TYPES S OR M. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8".
- 3. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
- 4. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED LADDER TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM COLD DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE.
- 5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
- 6. CONTROL JOINTS SHALL BE LOCATED IN THE INTERIOR WALLS FOR THE BUILDING AT A SPACING NOT EXCEEDING 0.67 TIMES THE WALL HEIGHT (30 FEET MAX). JOINTS SHALL, AT A MINIMUM, BE LOCATED AT
- 7. GROUTED CELLS WITH VERTICAL REINFORCEMENT SHALL BE LOCATED ADJACENT TO CONTROL OR

8. ALL REINFORCED CELLS AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.

- 9. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
- 10. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
- 11. VERTICAL BARS SHALL BE HELD IN POSITION WITH PRE-MANUFACTURED TIES AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING NOR 10 FEET. 12. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY
- AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS. 13. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS
- UNOBSTRUCTED CELL AREA NOT LESS THAN 2-1/2" X 3".
- 14. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR
- 15. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION. 16. ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION.
- 17. WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE CELLS SHALL BE FULLY GROUTED AT LEAST 8" ABOVE AND BELOW EACH BOLT OR ANCHOR.
- 18. REINFORCING SHALL BE LAPPED A MINIMUM OF 36 INCHES. U.N.O.
- PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (3) #5 BARS CONTINUOUS.

20. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES.

HARDENED STEEL WASHERS..

1. CODE: LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR

STRUCTURAL STEEL BUILDINGS, ANSI/AISC 360. STEEL SHALL CONFORM	M TO THE FOLLOWING GRADES:
ANCHOR BOLTS	
WELLING ELECTIONIES	⊢ /(1∨∨

- . STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE STEEL CONSTRUCTION. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED OR SHOWN, BOLTED CONNECTION SHALL BE MADE USING 3/4" DIAMETER BOLTS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN STRICT CONFORMANCE WITH LATEST EDITION RSCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS, CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN, SEE SPECIFICATIONS.
- 4. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- 5. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
- 6. CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE CONSTRUCTION DOCUMENTS.
- B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION. WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH
- CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION. D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4". MAX. DIA. 1-1/8". PROVIDE AT LEAST 2 BOLTS PER CONNECTION. TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD.
- E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS SIMPLE, UNRESTRAINED BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED. F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE DESIGN OF SPECIAL CONNECTIONS BETWEEN STEEL FRAMING COMPONENTS, INCLUDING BUT NOT LIMITED TO: BRACE END CONNECTIONS; MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS; AND MEMBER SPLICE CONNECTIONS, DESIGNED BY ANYONE OTHER THAN THE PROJECT STRUCTURAL ENGINEER-OF-RECORD, SHALL BE BY A PROFESSIONAL ENGINEER
- REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. 7. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE SIZE OF WELDS SHALL NOT BE SMALLER THAN 1/4". THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING

PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

- ETC. REQUIRED FOR ERECTION. 9. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK
- 10. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- 11. ALL TUBES REQUIRE AN END PLATE AT EACH END WITH A THICKNESS EQUAL TO OR GREATER THAN THE TUBE'S WALL THICKNESS.



HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF HE ARCHITECT AND MAY NOT BE USED OR REPRODUCED

	SOINT.		RELE	ASED FOR CONS	TRUCTIO
15.	GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.			REVISIONS	
16	ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION.			REVISIONS	REVISION
10.	ALE BOLTO INCENTED IN THE WALLO CHALL BE CHOOTED COLIDET INTO 1 CONTON.	No.:	Date	Descri	ption
17.	WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE	•	3/6/24	: Issued For Bid	
	CELLS SHALL BE FULLY GROUTED AT LEAST 8" ABOVE AND BELOW EACH BOLT OR ANCHOR.	•		0	
18	REINFORCING SHALL BE LAPPED A MINIMUM OF 36 INCHES, U.N.O.	•		0	
		•		0	
19.	WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTINGS SHALL BE 12" THICK AND HAVE A MINIMUM OF 4"			0	
	PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (3) #5 BARS CONTINUOUS.	•		0	
20.	WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES.	0		0	
		•		0	
		•		Ф Ф	
STI	RUCTURAL STEEL:			0	
		0		0	

VITHOUT WRITTEN PERMISSION.



A Professional Corporation

www.gsstj.com

Suite 1800

404.522.8805

404.521.2118 (f)

for the Practice of Architecture

Tower Place Building,

Atlanta, Georgia 30326

3340 Peachtree Road, N.E.

PROJECT NO. SHEET TITLE **GENERAL NOTES**

METAL STUDS AND JOISTS (COLD FORM FRAMING):

- CONTRACTOR SHALL SUBMIT THE FOLLOWING AS A COMPLETE PACKAGE, DELAYED SUBMITTAL: A. SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE INCLUDING PLACEMENT
 - PLANS, ELEVATIONS, AND SECTIONS. a. INCLUDE LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING FABRICATION; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS.
- b. INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, ANCHORS TO AVOID INTERFERENCE AND/OR DAMAGE TO IN-PLACE REINFORCEMENT. BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK. B. CALCULATIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR REVIEW BY ENGINEER OF
- RECORD. C. PRODUCT CATALOG WITH PROPERTIES OF ALL FRAMING AND ACCESSORIES.
- DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO LATEST ADDITION OF THE AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" INCLUDING SUBSEQUENT SUPPLEMENTS. ALL METAL STUDS SHALL BE GALVANIZED.
- 3. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" UNLESS NOTED OTHERWISE.
- 4. ALL PRODUCTS TO BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL MANUFACTURERS ASSOCIATION.
- . CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS PREPARED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRAPPING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
- MEMBER SIZE, GAGE AND SPACING OF EXTERIOR WALL STUDS AND ALL MEMBERS CONNECTIONS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. SUBMIT CALCULATIONS FOR MEMBERS AND CONNECTIONS WITH SHOP DRAWINGS (SIGNED AND STAMPED BY LICENSED STRUCTURAL ENGINEER IN THE STATE IN WHICH THE PROJECT WILL BE CONSTRUCTED) TO ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS SHALL SHOW WALL SECTIONS COORDINATED WITH DRAWINGS SHOWING FRAMING, ACCESSORIES, ANCHORAGE AND CONNECTION DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITHTHE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.
- DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN COLD-FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND CONDITIONS INDICATED BELOW. A. DESIGN LOADS: AS INDICATED ON DRAWINGS OR COMPUTED USING DESIGN CRITERIA PROVIDED. B. DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE
 - a. EXTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT, 1/360 OF THE WALL HEIGHT FOR SIMULATED STONE WALLS OR STUCCO FINISHES, 1/600 FOR BRICK OR STONE
 - b. INTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A
 - HORIZONTAL LOAD OF 5 LBF/SQ. FT. c. ROOF RAFTER FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE HORIZONTALLY PROJECTED SPAN
 - FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN. d. CEILING JOIST FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE SPAN FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN.
- 8. DESIGN WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS. FOR STRENGTH CALCULATIONS, WALLS SHALL BE DESIGNED AS BRACED AT THE STRAP SPACING (OR UNBRACED IF NO STRAPS ARE DESIGNATED) IF FULL-HEIGHT STRUCTURAL SHEATHING IS NOT INSTALLED ON BOTH SIDES OF STUDS. STRUCTURAL SHEATHING IS LIMITED TO PLYWOOD AND OSB. SHEATHING, BRIDGING, AND BRACING SHALL BE INSTALLED PRIOR TO VERTICAL LOAD OF LOAD BEARING WALLS.
- DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATED STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT
- 10. PROVIDE TEMPORARY SHORES, GUYS, BRACES, AND OTHER SUPPORTS DURING ERECTION TO KEEP STRUCTURAL FRAMING SECURE, PLUMB, AND IN ALIGNMENT AGAINST TEMPORARY CONSTRUCTION LOADS EQUAL IN INTENSITY TO DESIGN LOADS. REMOVE TEMPORARY SUPPORTS WHEN PERMANENT STRUCTURAL FRAMING CONNECTIONS AND BRACING ARE IN PLACE, UNLESS OTHERWISE INDICATED.
- DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS (INCLUDES SLIP TRACKS, SLIP CLIPS, & BYPASS CLIPS):
- A. UPWARD AND DOWNWARD MOVEMENT EQUALS 1/240 TIMES THE SPAN OF THE UPPER BOUND PRIMARY STRUCTURAL ELEMENT (BEAM).
- 12. MINIMUM MEMBER SIZES ARE AS FOLLOWS: THICKNESS (MILS)

TEMPERATURE CHANGE OF 120 DEG F (67 DEG C).

- T (TRACK)
- 13. MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 20 TO 18 GAUGE (33 TO 43 MILS) SHALL BE 33 KSI. MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 16 TO 12 GAUGE (54 TO 97 MILS) SHALL BE 50 KSI.
- 14. ALL STUDS BACKING MASONRY OR STONE VENEER SHALL BE 43 MILS MIN.
- ENGINEER. (2) STUDS MIN. EACH SIDE OF OPENING.
- OR RECOGNIZED DESIGN STANDARD. ALL SCREWS SHALL BE NON-CORROSIVE NO. 12-14 STANDARD SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED
- 17. ALL POWDER ACTUATED FASTENERS (PAF) SHALL BE 0.157" MIN. DIAMETER POWDER ACTUATED FASTENERS. LIMIT EMBED IN POST-TENSIONED SLABS TO BE 3/4" MAX.
- 18. ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. MIN. EDGE DISTANCE FOR SCREWS SHALL BE 1".

19. TRACKS SHALL BE CONNECTED TO SUPPORTS WITH TWO SCREWS OR PINS AT 16" O.C. MAX. STUDS OR JOISTS

- SHALL BE CONNECTED TO TRACKS AT EACH SIDE. 20. ALL BRIDGING MUST BE CONTINUOUS FOR FULL LENGTH OF WALL OR PROPERLY SPLICED WITH AN APPROVED
- 21. ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEED WELDER PER ASTM A-108. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.3, LATEST EDITION. DO NOT WELD SHAPES LESS THAN 68 MILS (14 GAUGE).
- 22. APPLY ZINC COATING TO ALL WELDS.

SPLICE ELEMENT.

- 23. PROVIDE FULL DEPTH BLOCKING OR OTHER MEANS OF RESTRAINT AT JOIST BEARING SUPPORTS.
- 24. PURLINS SHALL BE COLD-FORMED "Z" SECTIONS WITH STIFFENED FLANGES. FLANGE STIFFENERS SHALL BE SIZED TO SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE. METAL ANCHORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF AISI AND LGSI. THEY SHALL BE PRE-PUNCHED AT THE FACTORY TO PROVIDE FOR FIELD BOLTING. THEY SHALL BE SIMPLE OR CONTINUOUS SPAN AS SHOWN. CONNECTION BOLTS WILL INSTALL THROUGH THE PURLIN WEBS, NOT PURLIN FLANGES.
- 25. EAVE STRUTS SHALL BE UNEQUAL FLANGE, COLD-FORMED "C" SECTIONS.

MANUFACTURER, USING PROPER TOOLS, EQUIPMENT AND SAFETY PRACTICES.

- 26. SHOP- FABRICATE ALL FRAMING MEMBERS FOR FIELD BOLTED ASSEMBLY. THE SURFACES OF THE BOLTED CONNECTIONS MUST BE SMOOTH AND FREE FROM BURRS OR DISTORTIONS.
- 27. THE ERECTION OF THE BUILDING SYSTEM SHALL BE PERFORMED BY A QUALIFIED ERECTOR, IN ACCORDANCE WITH THE APPROPRIATE ERECTION DRAWINGS, ERECTION GUIDES AND/OR OTHER DOCUMENTS FURNISHED BY

POST-INSTALLED ANCHORS

- 1. POST-INSTALLED ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. POST-INSTALLED ANCHORS SHALL NOT BE USED FOR MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS WITHOUT PERMISSION FROM THE
- 2. TESTING, SCANNING, AND LOCATING OF EXISTING REINFORCEMENT IS REQUIRED PRIOR TO INSTALLATION OF POST-INSTALLED
- 3. SUBSTITITION REQUESTS FOR SPECIFIED POST-INSTALLED ANCHORS SHALL BE ACCOMPANIED BY ADEQUATE CALCULATIONS BY A ENGINEER LICENSED IN THE PROJECT STATE THAT THE REQUESTED ANCHOR MEETS OR EXCEEDS THAT OF WHAT IS
- 4. MECHANICAL ANCHORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.2 QUALIFICATION OF POST INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY.
- 5. ADHESIVE ANCHOR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.4 QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (355.4) AND COMMENTARY. BULKMIXED (E.G., BUCKET-MIXED) ADHESIVES ARE NOT PERMITTED.
- 6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR
- 7. CONCRETE AT TIME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS. FOR INSTALLATION OF ADHESIVE ANCHORS IN CONCRETE HAVING AN AGE LESS THAN 21 DAYS, TESTS SHALL BE CONDUCTED TO VERIFY THE PERFORMANCE OF THE PRODUCT IN ACCORDANCE WITH ACI 355.4.
- THE CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER
- 9. ADHESIVE ANCHORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII) AS SUPPLIED WITH THE ADHESIVE, ADHESIVE CARTRIDGE, MIXING NOZZLE, EXTENSION TUBE, DISPENSER, AND ALL REQUIRED EQUIPMENT FOR PROPERLY CLEANING THE DRILLED HOLE.
- 10. ALL-THREADED ROD (EYEBOLTS, THREADED STUDS, INTERNAL THREADED PARTS) TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, F1554 OR OTHER APPROVED ANCHOR ASSEMBLY TYPES. (STAINLESS STEEL ANCHOR RODS SHALL BE AISI TYPE 304 OR TYPE 316.) THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHERWISE COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. WITH HOT-DIPPED GALVANIZED RODS, USE OVERSIZED TAPPED, HOT-DIPPED GALVANIZED NUTS.
- 11. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM OR WITH A MECHANICAL EXPANSION ANCHOR SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT IS COMPATIBLE WITH THE ANCHOR ROD/ALLOY. GALVANIZED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. ELECTROPLATE GALVANIZING IS NOT ACCEPTABLE. DISSIMILAR METAL ASSEMBLIES SHALL BE SEPARATED BY NYLON, EPDM, OR OTHER APPROVED NON-METALLIC WASHERS.
- 12. REINFORCING BARS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES OR AS POST-INSTALLED REINFORCING SHALL CONFORM TO ASTM A615, A706, A995, OR A1035
- 13. THE EMBEDMENT DEPTH SPECIFIED SHALL BE DEFINED AS THE DEPTH FROM THE BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED.
- 14. ADHESIVE CARTRIDGES SHALL BE STORED UNDER CONDITIONS IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS REGARDING TEMPERATURE, EXPOSURE TO SUNLIGHT, ETC. AND EVIDENCE OF COMPLIANCE SHALL BE MADE AVAILABLE UPON REQUEST. THE USE OF EXPIRED ADHESIVE, AS INDICATED BY THE EXPIRATION DATE ON THE CARTRIDGE, IS PROHIBITED.
- 15. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE SPECIFICATIONS (ALT: CONTRACT DOCUMENTS), BOTH POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
- BUILDING ENVELOPE WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE 16. ADHESIVE ANCHORS WITH DIAMETER GREATER THAN 3/8- INCH INSTALLED IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL SHALL EMPLOY A PISTON PLUG FOR THE ADHESIVE INJECTION.
 - 17. INSTALLATION OF ADHESIVE ANCHORS IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM
 - E. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE EXPANSION AND/OR ADHESIVE ANCHOR INCLUDING, BUT NOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN-OUT BRUSHES, BLOWOUT BULBS, OIL-FREE COMPRESSED AIR, VACUUMS, WRENCHES, ETC.
 - 19. UNLESS OTHERWISE SPECIFIED, ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR, WHERE NOT OTHERWISE PROSCRIBED, A ROCK DRILL. WHERE SPECIFIED AND WHERE PERMITTED BY THE MPII, HOLES MAY BE DRILLED WITH A DIAMOND CORE DRILL. IN ALL CASES, THE BIT DIAMETER SHALL BE IN ACCORDANCE WITH THE MPII.
 - 20. ANCHOR HOLES SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE MPII PRIOR TO
 - 21. DRILLED AND CLEANED ANCHOR HOLES SHALL BE PROTECTED FROM CONTAMINATION AND WATER (E.G. RAIN) UNTIL THE ADHESIVE IS INSTALLED.
 - 22. A DRILLED ANCHOR HOLE SHALL BE RE-CLEANED JUST PRIOR TO ADHESIVE INJECTION IF, IN THE OPINION OF THE ENGINEER, INSPECTOR, OR OWNER'S REPRESENTATIVE, THE HOLE HAS BECOME CONTAMINATED AFTER INITIAL CLEANING.
- 23. ADHESIVE SHALL BE INJECTED IN ACCORDANCE WITH THE MPII USING EQUIPMENT AND PROCEDURES AS SPECIFIED THEREIN 15. THE QUANTITY OF STUDS OR JOISTS PLACED ON EACH SIDE OF OPENINGS SHALL BE DESIGNATED BY THE SPECIALTY FOR THE SPECIFIC CONDITIONS ASSOCIATED WITH THE INJECTION. THIS SHOULD BE CLEARLY SPECIFIED IN THE MPII, IF NOT, ANOTHER PRODUCT SHOULD BE SPECIFIED.
- 16. SELF-DRILLING TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 OR AN APPROVED DESIGN 24. ANCHOR ELEMENTS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS. THREADS ON THE PROJECTING PORTION OF THE ANCHOR ELEMENT SHALL BE PROTECTED FROM ADHESIVE CONTAMINATION.
 - 25. INSTALLED ADHESIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. ANCHORS DISPLACED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S
 - 26. POST-INSTALLED REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED.

- 1. CODES: STRUCTURAL WOOD IS TO BE DESIGNED, DETAILED, FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADDITIONS OF
- . "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (ANSI/AWC NDS) BY AMERICAN WOOD COUNCIL. . PRODUCT STANDARD PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" BY ALSC.
- PLYWOOD CONFORMING TO APA-THE ENGINEERED WOOD ASSOCIATION. METAL PLATE-CONNECTED WOOD TRUSS DESIGN CONFORMING TO "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND TPI QUALITY CONTROL MANUAL.
- 2. ALL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (MOISTURE CONTENT 19% MAX.) OR EQUAL UNLESS NOTED OTHERWISE

3. ALL WOOD TO WOOD CONNECTIONS SHALL EMPLOY PRE-MANUFACTURED METAL ANCHORS. TOE OR END NAILING OF WOOD

- COMPANY OR EQUAL. 4. TRUSS MEMBERS AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE
- SPECIFICATIONS FOR THE LOADING STATED BELOW. CONNECTOR PLATES WITHIN 1 INCH OF EDGE OR END OF MEMBER AT ANY JOINT SHALL NOT BE CONSIDERED IN DEVELOPING STRESS.
- 5. ERECTION BRACING SHALL BE INSTALLED AS NECESSARY TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE INSTALLED. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL TEMPORARY BRACING LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW ON SHOP DRAWINGS SUBMITTALS. ALL PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES COMMENTARY (BWT-76) OR HFT-80, AS PUBLISHED BY THE TRUSS PLATE INSTITUTE
- OF THE TRUSS PLATE INSTITUTE'S "BUILDING COMPONENT SAFETY INFORMATION BOOKLET" AND RELATED SUMMARY SHEETS.

6. PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE LATEST ADDITION

- 7. DESIGN OF TIMBER TRUSSES SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE. STAMPED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SEALED BY THE DESIGN ENGINEER.
- 8. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS DESIGN ENGINEER. TRUSS DESIGN ENGINEER SHALL SPECIFY ALL HARDWARE REQUIRED FOR THE CONNECTIONS. 9. ROOF DECK SHALL BE 5/8" PLYWOOD MIN. ATTACHED TO SUPPORTING MEMBERS WITH 10d NAILS AT 6" ON CENTER UNLESS
- 10. WOOD EMBEDDED OR PLACED ON CONCRETE IN DIRECT CONTACT WITH EARTH SHALL BE PRESSURE TREATED INCLUDING BUT NOT LIMITED TO POSTS, COLUMN SLEEPERS, SILLS AND SOLE PLATES.
- 11. ALL PRE-ENGINEERED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING. INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91"
- 12. ALL PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER-OF-RECORD.

A. BOLTS FOR WOOD CONSTRUCTION SHALL BE ASTM A-307.

- B. BOLT HOLES IN WOOD SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. C. A METAL PLATE, METAL STRAP OR WASHER NOT LESS THAN A STANDARD CUT WASHER (1/8" THICK MIN.) SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE BOLT.
- D. THE THREADED PORTION OF BOLTS SUBJECT TO WOOD BEARING SHALL BE KEPT TO A PRACTICAL MINIMUM. E. IN HEAVY TIMBER MEMBERS, THE BOLTS AND WASHERS SHALL BE COUNTER SUNK 3/4" MAX. IN THE MEMBER TO ALLOW FOR A WOOD PEG COVER.
- 14. PREDRILL HOLES FOR LAG BOLTS AS FOLLOWS: A. CLEARANCE HOLE FOR LENGTH OF UNTHREADED SHANK:
 - NOMINAL DIAMETER + 1/16" B. PREDRILL HOLES FOR THREADED PORTION:
 - NOMINAL DIAMETER + 1/16"
- 15. ALL NAILS, BOLTS, SCREWS, AND LAG SCREWS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. WOOD CONNECTOR HARDWARE SHALL BE HOT-DIP GALVANIZED. "Z-MAX" GALVANIZED OR TYPE 316 STAINLESS STEEL, ALL GALVANIZED FASTENERS SHALL BE USED WITH GALVANIZED HARDWARE AND STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL HARDWARE.

SCHEDULE OF SPECIAL INSPECTIONS SERVICES 1705.1.1 Special Cases . Inspection of anchors post-installed in solid grouted masonry: Per research reports including Periodic or as verification of anchor type, anchor dimensions, hole required by the dimensions, hole cleaning procedures, anchor Field inspection research report spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment approved source and tightening torque Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of Periodic or as aggregate properties, type and number of lifts of required by the aggregate, hole size and depths and top elevations Field inspection research report of the pier elements, and applied energy. issued by an Additionally, results of qualitative tests on approved source production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications. 1705.2.1 Structural Steel Construction Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N 3.2 Submittal Review Each submittal for compliance with construction documents) Shop (3) or field B) Welded joints subject to fatigue when required by radiographic or AISC 360, Appendix 3, Table A-3.1 Ultrasonic testing Shop (3) and field Periodic 2. Material verification of structural steel inspection a. Inspection tasks Prior to Welding (Observe, or Shop (3) and field perform for each welded joint or member, the QA Perform as noted inspection tasks listed in AISC 360, Table N5.4-1) Inspection tasks During Welding (Observe, or Shop (3) and field perform for each welded joint or member, the QA Observe (4) asks listed in AISC 360, Table N5.4-2) . Inspection tasks After Welding (Observe, or Observe or Shop (3) and field perform for each welded joint or member, the QA Perform as noted inspection tasks listed in AISC 360, Table N5.4-3) . Nondestructive testing (NDT) of welded joints: see Commentary Shop (3) or field) Complete penetration groove welds 5/16" or Periodic ultrasonic testing greater in risk category III or IV 100% Shop (3) or field Complete penetration groove welds 5/16" or ultrasonic testing greater in risk category II 10% of welds minimum 4) Fabricator's NDT reports when fabricator Verify reports Each submittal (5) performs NDT Shop (3) and field Each submittal (5) Structural steel bolting: inspection a. Inspection tasks Prior to Bolting (Observe, or Observe or perform tasks for each bolted connection, in Perform as noted accordance with QA tasks listed in AISC 360, Table (4) b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360. Table N5.6-2 b. Inspection tasks During Bolting (Observe the QA Observe (4) tasks listed in AISC 360, Table N5.6-2) 1) Pre-tensioned and slip-critical joints a) Turn-of-nut with matching markings b) Direct tension indicator Periodic Twist-off type tension control bolt Periodic) Turn-of-nut without matching markings Continuous e) Calibrated wrench Continuous Periodic) Snug-tight joints Visual inspection of exposed cut surfaces of galvanized structural steel main members and Shop (3) or field Periodic exposed corners of the rectangular HSS for cracks inspection subsequent to galvanizing 6. Embedments (Verify diameter, grade, type, Field inspection length, embedment. See 1705.3 for anchors) Verify member locations, braces, stiffeners, and application of joint details at each connection Field inspection comply with construction documents 1705.3 Concrete Construction Inspection and placement verification of Shop (3) and field Periodic inspection reinforcing steel and prestressing tendons. Reinforcing bar welding . Verification of weldability of bars other than Periodic ASTM A706. b. Inspection of single-pass fillet welds 5/16 or less Inspection of all other welds. Continuous Shop (3) and field Inspection of anchors cast in concrete. Periodic Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements Periodic or as shall be provided by the registered design required by the professional and approved by the building official, Field inspection research report including verification of anchor type, anchor issued by an dimensions, hole dimensions, hole cleaning approved source procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained Continuous tension loads. Mechanical and adhesive anchors note defined Periodic Shop (3) and field Verify use of approved design mix inspection Prior to placement, fresh concrete sampling perform slump and air content tests and determine Shop (3) and field Continuous temperature of concrete and perform any other inspection tests as specified in construction documents. Inspection of concrete and shotcrete placement Shop (3) and field Continuous for proper application techniques inspection Verify maintenance of specified curing Shop (3) and field temperature and techniques inspection Shop (3) and field Inspection of prestressed concrete inspection . Application of prestressing force . Grouting of bonded prestressing tendons Continuous Periodic Inspect erection of precast concrete members 1. Verification of in-situ concrete strength, prior to Review field testing stressing of tendons in post tensioned concrete and Periodic and laboratory prior to removal of shores and forms from beams and structural slabs 2. Inspection of formwork for shape, lines, location Field inspection and dimensions Field testing and 13. Concrete strength testing and verification of review of laboratory compliance with construction documents reports 1705.4 Masonry Construction (A) Level 1, 2 and 3 Quality Assurance: 1. Prior to construction, verification of compliance of Submittal Review Construction (B) Level 2 & 3 Quality Assurance: 1. Prior to construction verification of f'm and f'AAC Prior to except where specifically required by the code prism test method 2. During construction, verification of Slump Flow Testing by unit and Visual Stability Index (VSI) when Periodic strength method or self-consolidating grout is delivered to project site. | prism test method | Shop (3) and field Periodic (C) Level 3 Quality Assurance: inspection Testing by unit . During construction, verification of f'm and f'AAC strength method or N Periodic for every 5,000 SF prism test method 2. During construction, verification of proportions of materials as delivered to the project site for Field inspection premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout. (D) Levels 2 and 3 Quality Assurance: I. As masonry construction begins, verify that the following are in compliance:

MATERIAL / ACTIVITY	SEDVIOT	\//k1	EVTENT	ACELIT	DAT
MATERIAL / ACTIVITY	SERVICE	<u>Y/N</u>	<u>EXTENT</u>	<u>AGENT</u>	COMPL
a. Proportions of the site-prepared mortar b. Grade and size of prestressing tendons and	Field inspection	Y	Periodic		
anchorages	Field Inspection	Y	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages d. Prestressing technique	Field Inspection Field Inspection	Y	Periodic		
e. Properties of thin-bed mortar for AAC masonry	Field Inspection	N	Level 2 - Periodic, Level 3 - Continuous		
f. Sample panel construction	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field Inspection	N	Periodic Level 2 - Periodic,		
c. Placement of reinforcement, connectors, and anchor bolts	Field Inspection	Y	Level 3 - Continuous		
d. Proportions of site-prepared grout and prestresssing grout for bonded tendons 3. Verify compliance of the following during construction:	Field Inspection	Y	Periodic		
a. Materials and procedures with the approved submittals	Field Inspection	Υ	Periodic		
b. Placement of masonry units and mortar joint	Field Inspection	Υ	Periodic		
construction c. Size and location of structural members	Field Inspection	Y	Periodic		
d. Type, size, location of anchors, including other	-		Level 2 - Periodic,		
details of anchorage of masonry to structural members, frames, or other construction	Field Inspection	Y	Level 3 - Continuous		
e. Welding of reinforcement	Field Inspection	Υ	Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40oF) or hot weather (temperature above 90oF) g. Application and measurement of prestressing	Field Inspection	N	Periodic		
force	Field Inspection	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field Inspection	Υ	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints	Field Inspection	N	Level 2 - Periodic, Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
1705.5 Wood Construction 1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	Y	Periodic		
Prior to construction, verification of compliance of submittals	Field inspection	Υ	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans. 3. For high-load diaphragms, verify nominal size of		N	Periodic		
framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses: a. Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".	Field inspection	N	Periodic		
b. For trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.6 Soils 1. Verify materials below shallow foundations are	Field increation	V	Daviadia		
adequate to achieve the design bearing capacity. 2. Verify excavations are extended to proper depth	Field inspection	Y	Periodic		
and have reached proper material. 3. Perform classification and testing of compacted fill materials.	Field inspection Field inspection	Y	Periodic Periodic		
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous		
5. Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic		
1705.11.1 Structural Wood Special Inspections For W 1. Inspection of field gluing operations of elements					
of the main windforce-resisting system 2. Inspection of nailing, bolting, anchoring and other	Field inspection	Y	Continuous		
fastening of components within the main windforce-resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs.	Shop (3) and field inspection	Y	Periodic		
1705.11.2 Cold-formed Steel Special Inspections For 1.Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	Y	Periodic		
2. Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	Y	Periodic		
1705 11 2 Wind resisting Components		·			
1705.11.3 Wind-resisting Components	Shon (3) and field			1	1
Roof covering, roof deck and roof framing connections. Exterior wall covering and wall connections to	Shop (3) and field inspection Shop (3) and field	Υ	Periodic		

2. Structural steel elements in SDC B, C, D, E, or F

other than those in Item 1. including struts,

collectors, chords and foundation elements.

inspection

Shop (3) and field

inspection

with AISC 341

In accordance

with AISC 341



COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED

WITHOUT WRITTEN PERMISSION.

RELEASED FOR CONSTRUCTION **REVISIONS** ; Issued For Bid

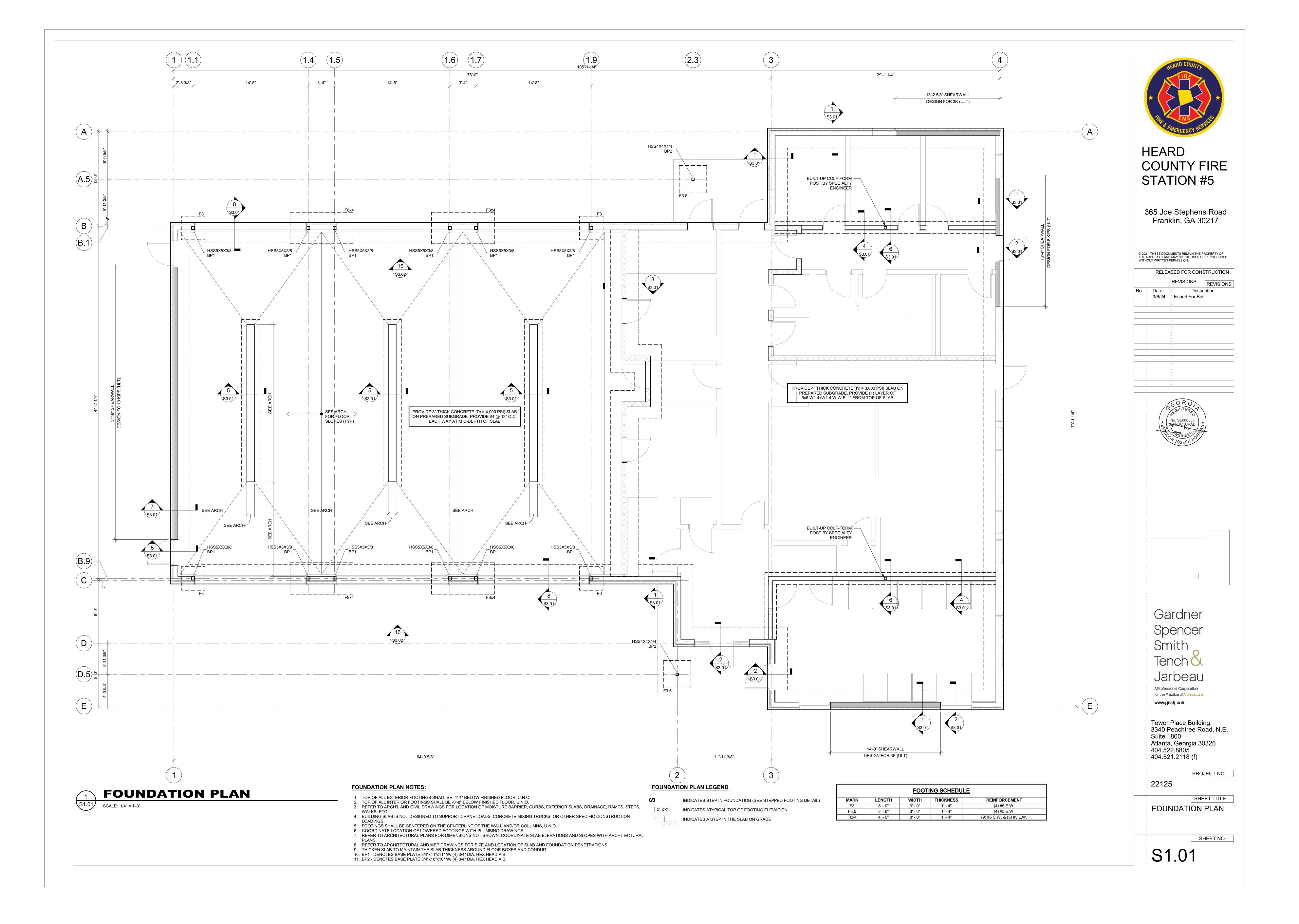
A Professional Corporation

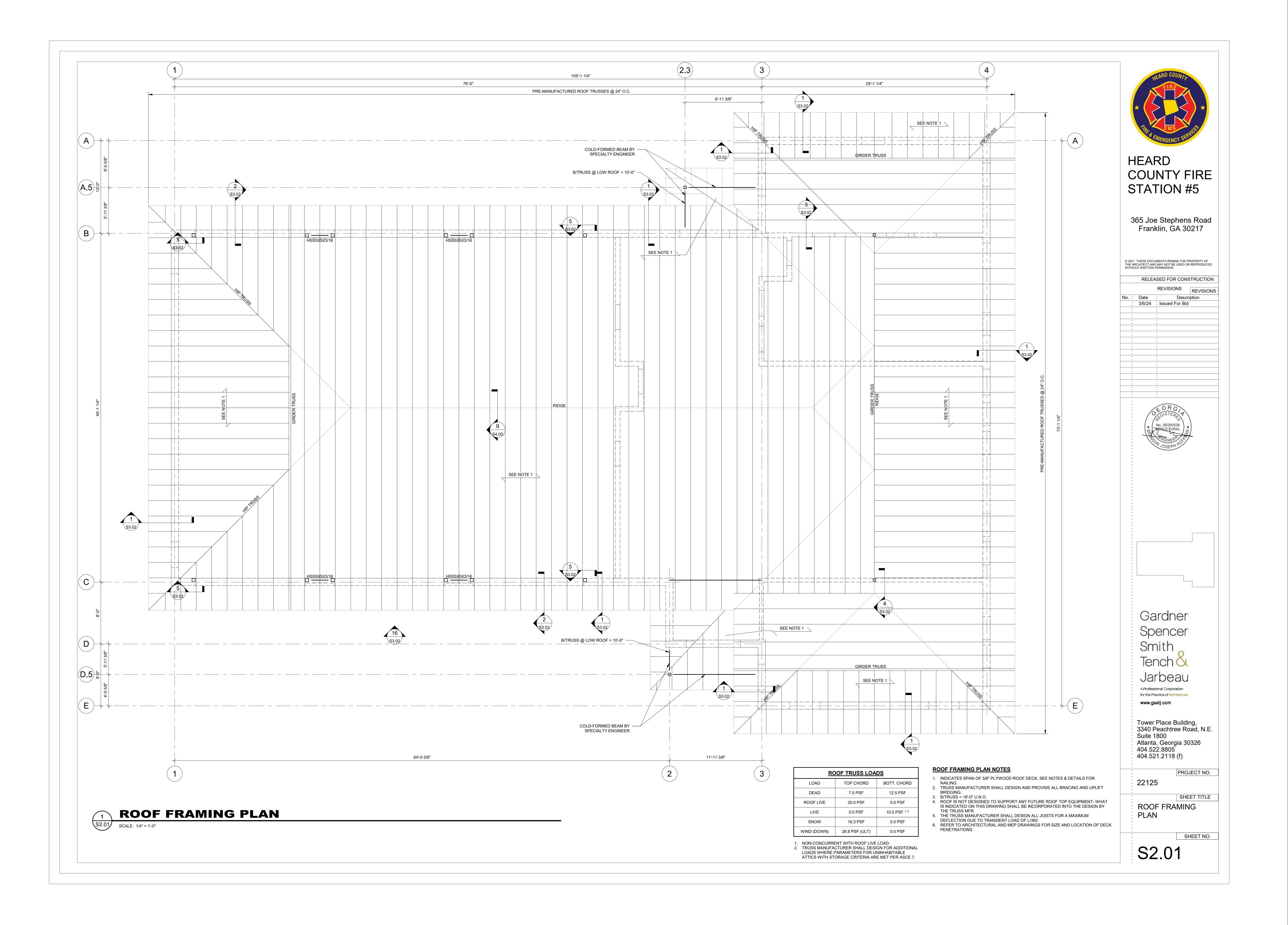
for the Practice of Architecture www.gsstj.com

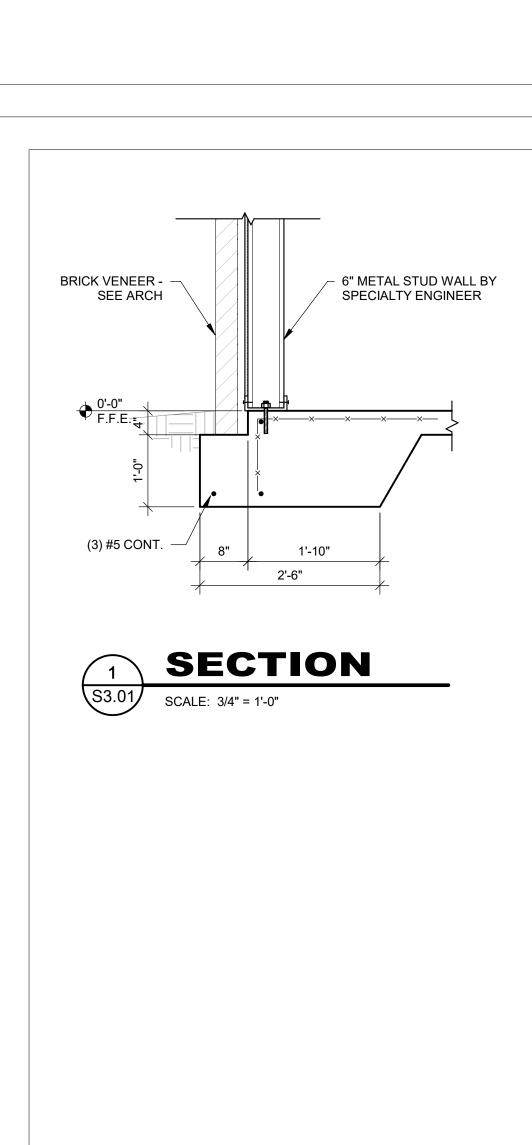
Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

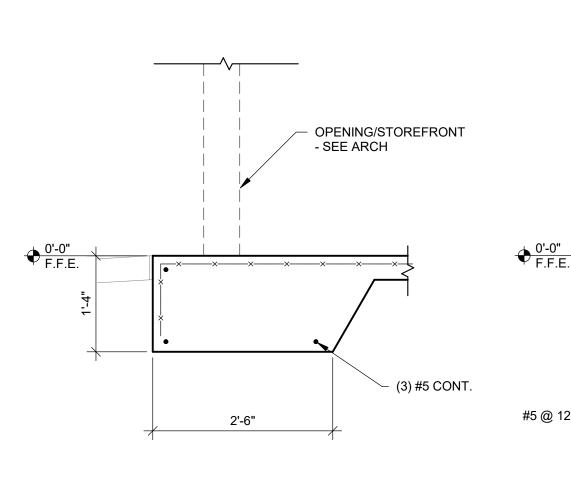
SHEET TITLE **GENERAL NOTES &** STRUCTURAL SPECIAL . INSPECTIONS SHEET NO.

PROJECT NO.

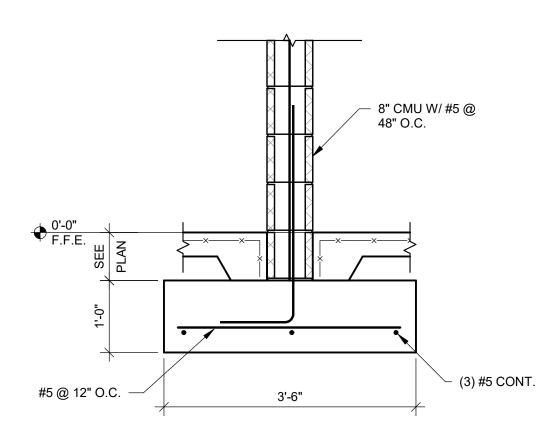




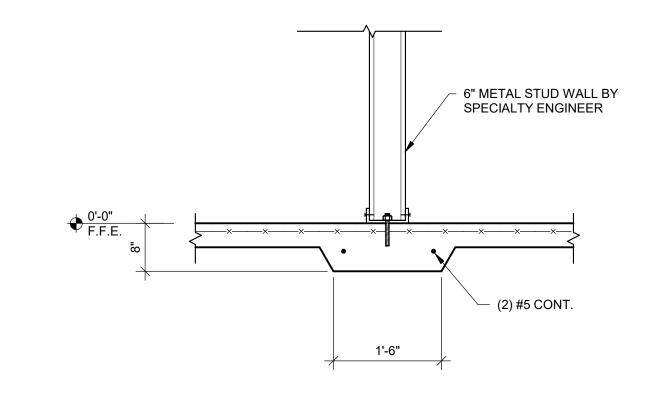


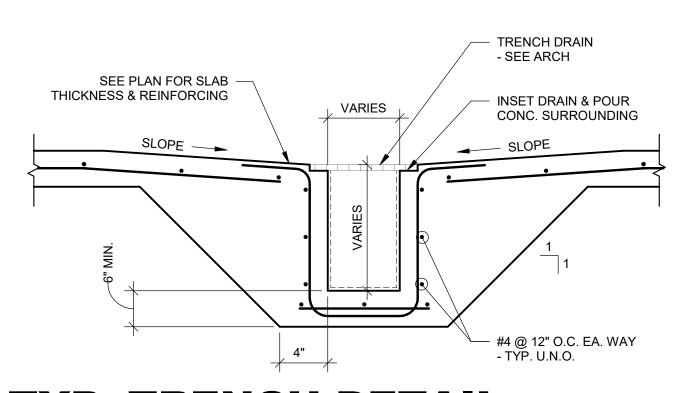


SECTION

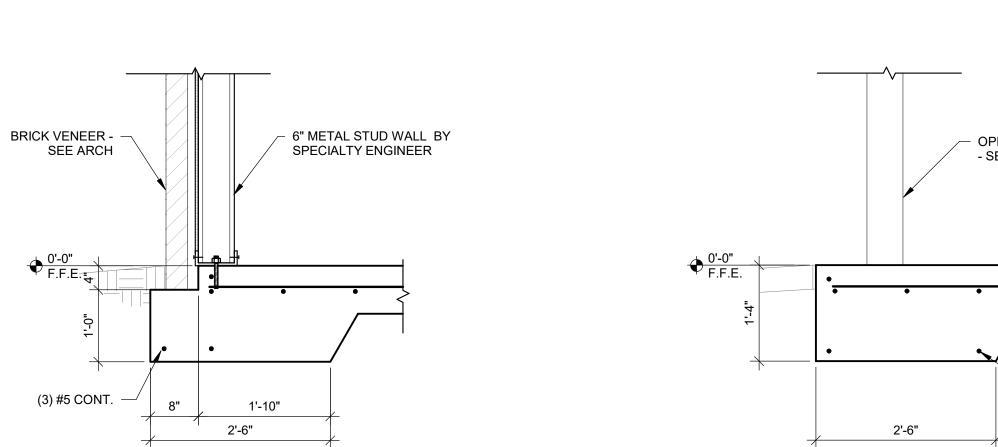


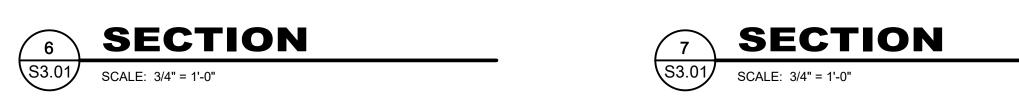
SECTION









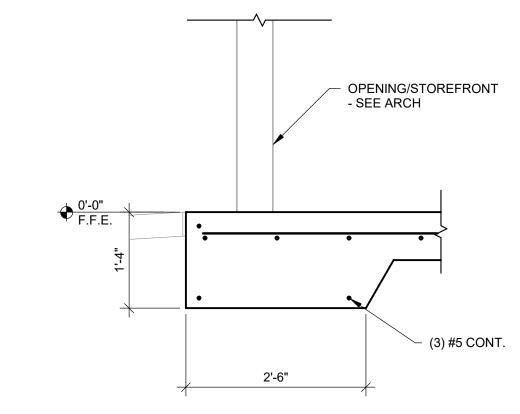


BOX COLUMN BY METAL
 STUD SPECIALTY ENGINEER

— (2) #5 CONT.

1'-6"

4 SECTION
S3.01 SCALE: 3/4" = 1'-0"





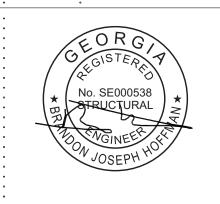


HEARD **COUNTY FIRE** STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE	ASED FOR CO	NSTRUCTION
		DEV/IOLONIO	
		REVISIONS	REVISIONS
No.:	Date	: Desc	cription
•	3/6/24	; Issued For Bi	d
•		0	
•		0	
•		•	
•		0	
•		•	
•		0	
•		0	
•		•	
•		0	
•		0	
•		•	
•		•	·
•		0	
•		0	



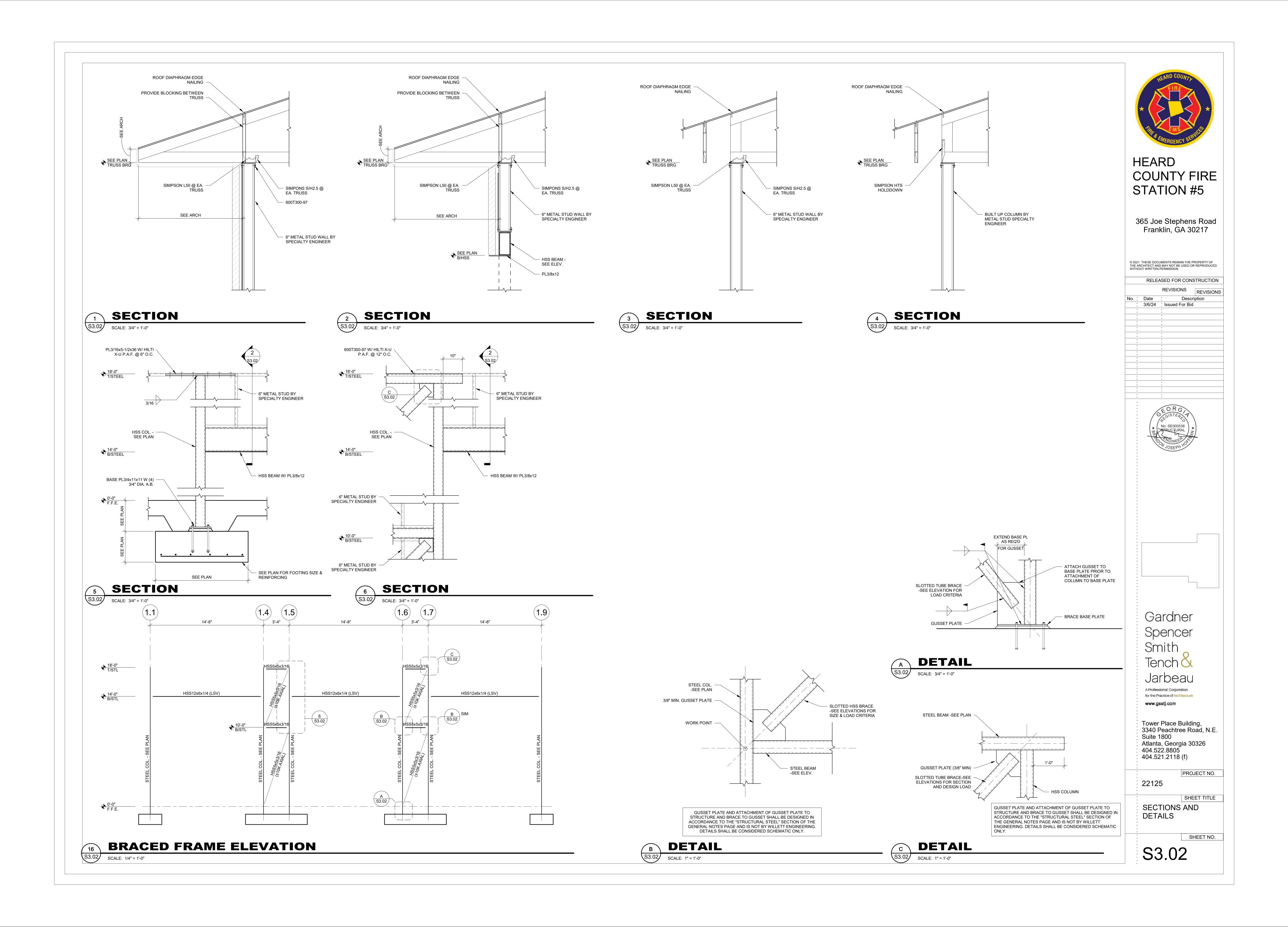
Gardner Spencer Smith Jarbeau

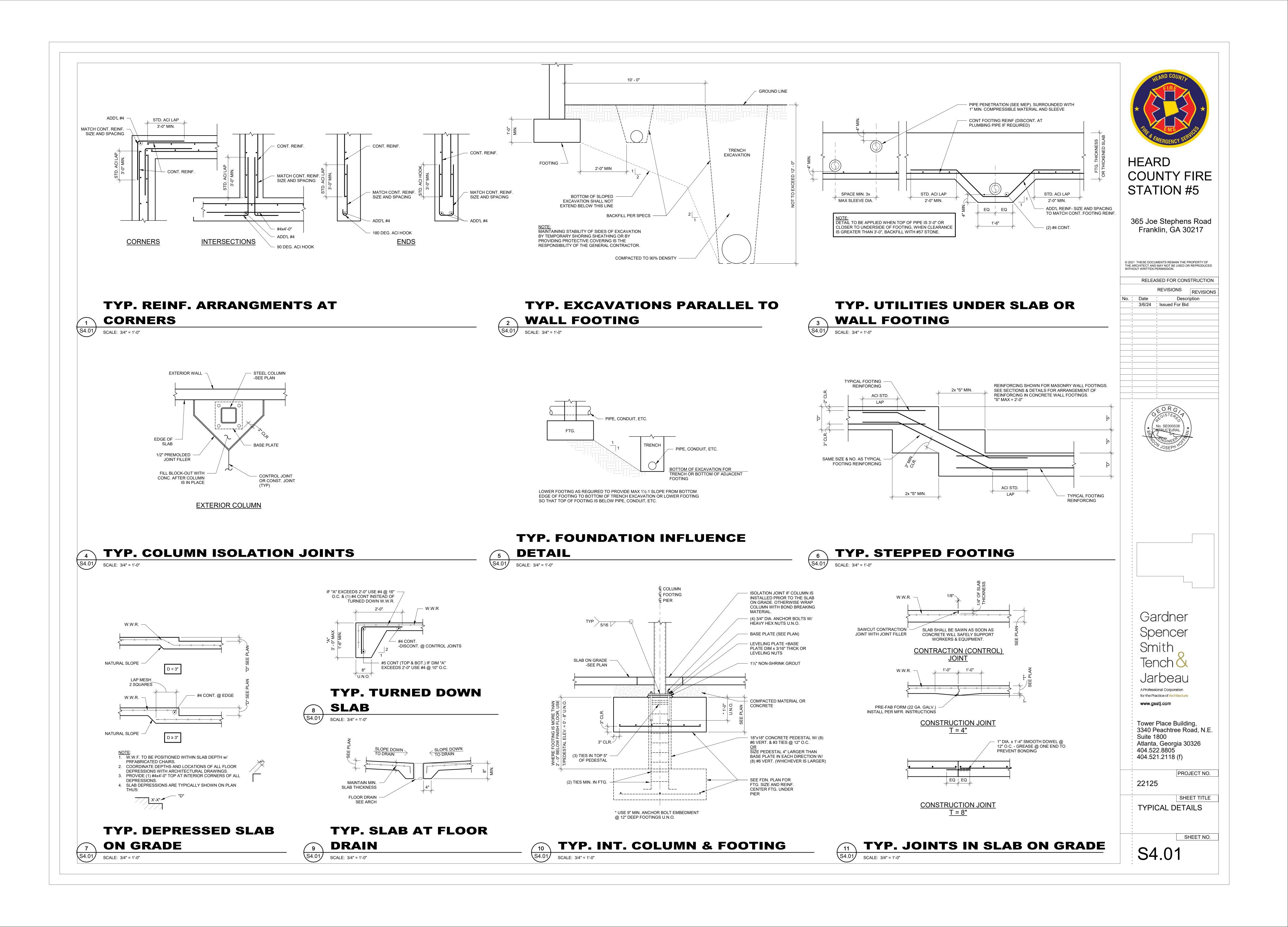
A Professional Corporation for the Practice of Architecture www.gsstj.com

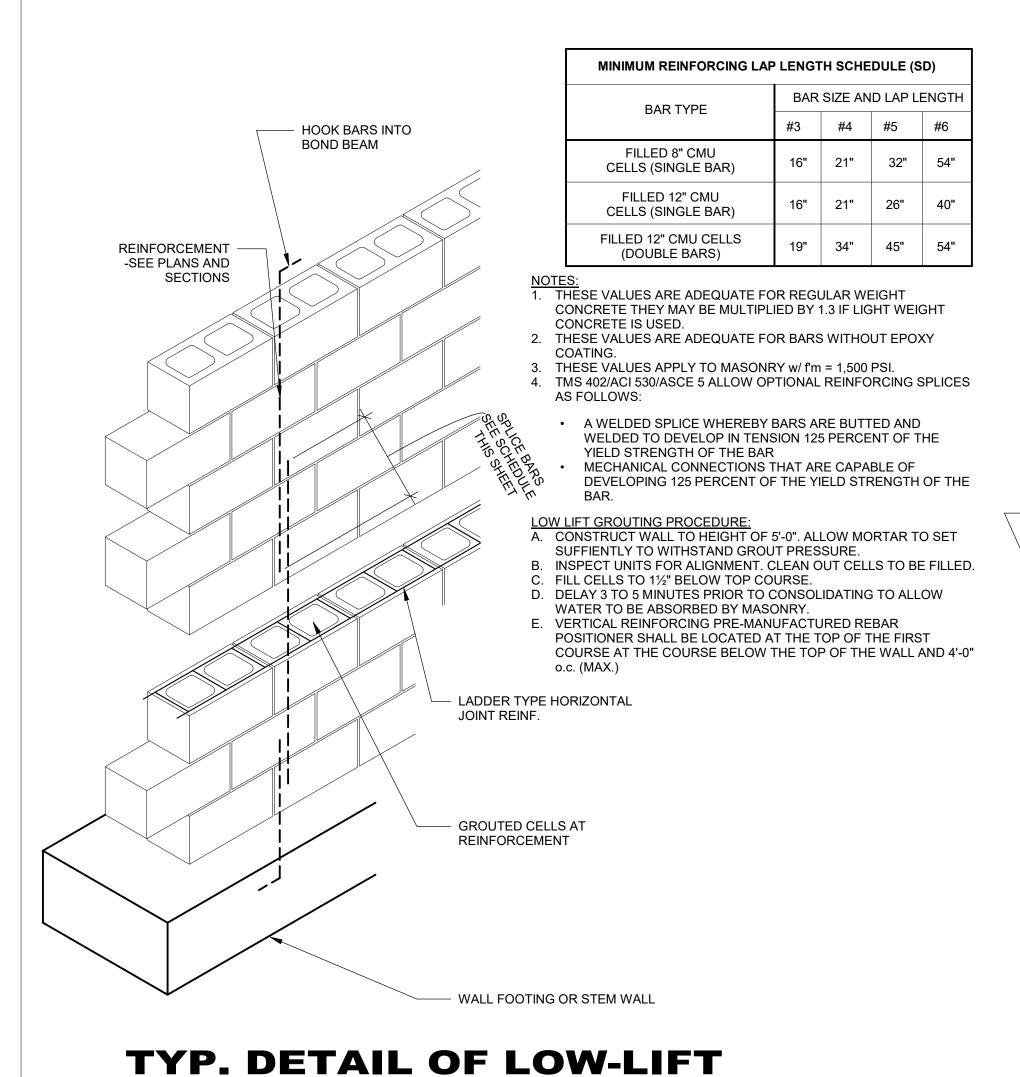
Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

SHEET TITLE SECTIONS AND DETAILS

S3.01



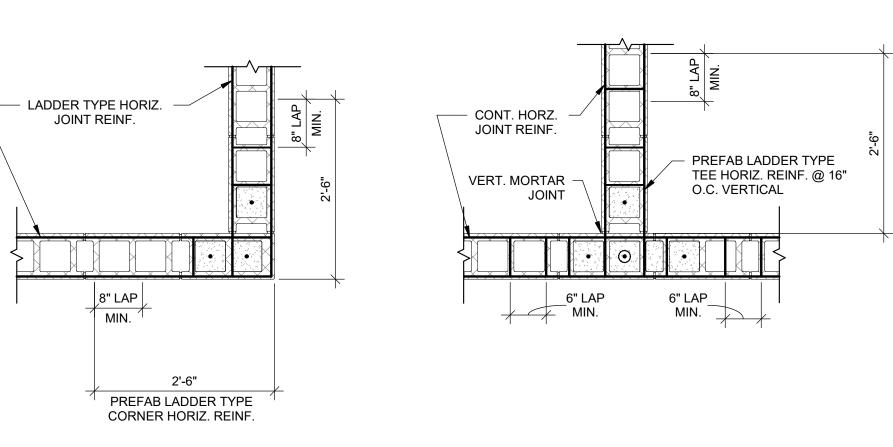




REINFORCED CMU

S4.02 SCALE: 3/4" = 1'-0"

— (3) #5 (U.N.O.) FULL HEIGHT 40 BAR DIA LAP VÉRT REINF. IN FULLY 24" MIN. (TYP) GROUTED CELLS (4) #5 (U.N.O.) FULL HEIGHT VERT. REÍNF. IN - HORZ. BOND FULLY GROUTED CELLS BEAM REINF. CORNER BARS MATCH SIZE & SPACING OF HORZ. BARS WHERE SIZE & SPACING DIFFER MATCH LARGER AREA



@ CORNER

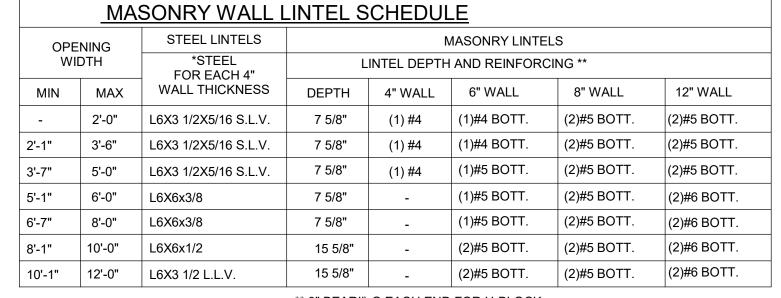
S4.02 SCALE: 3/4" = 1'-0"

@ TEE INTERSECTION

NOTE:

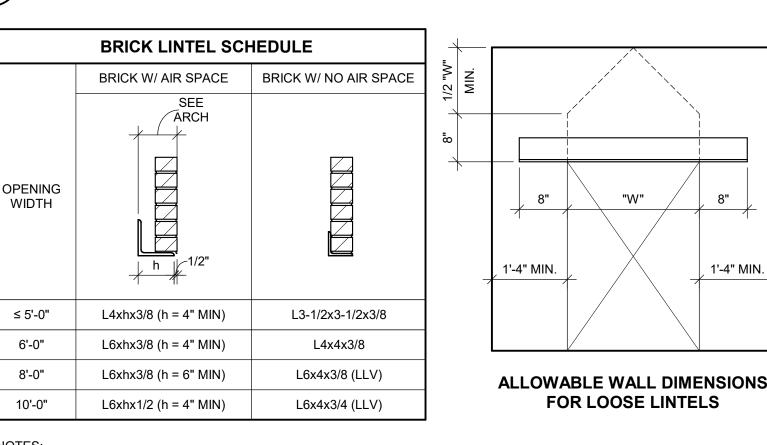
1. CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL LADDER TYPE HORIZ. REINF. AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.

TYPICAL CMU WALL CORNERS AND INTERSECTIONS



- ** 8" BEARII\.G EACH END FOR U-BLOCK * 8- BEARING EACH END FQR STEEL NOTES: 1. USE EITHER STEEL L NTEL CR MASONRY LINTEL (SEE ARCH. HEAD DETAILS) 2. THIS SCHEDULE TO BE USED UNLESS NOTED OTHERWISE
- 3. DO NOT USE THIS SCHEDJLE IF CONCENTRATED LOAD IS APPLIED TO LINTEL. 4. DO NOT USE THIS SCHEDJLE IF HEIGHT OF MASONRY ABOVE OPENING IS LESS THAN HALF OF THE OPENING WIDTH.

CMU WALL LINTEL SCHEDULE

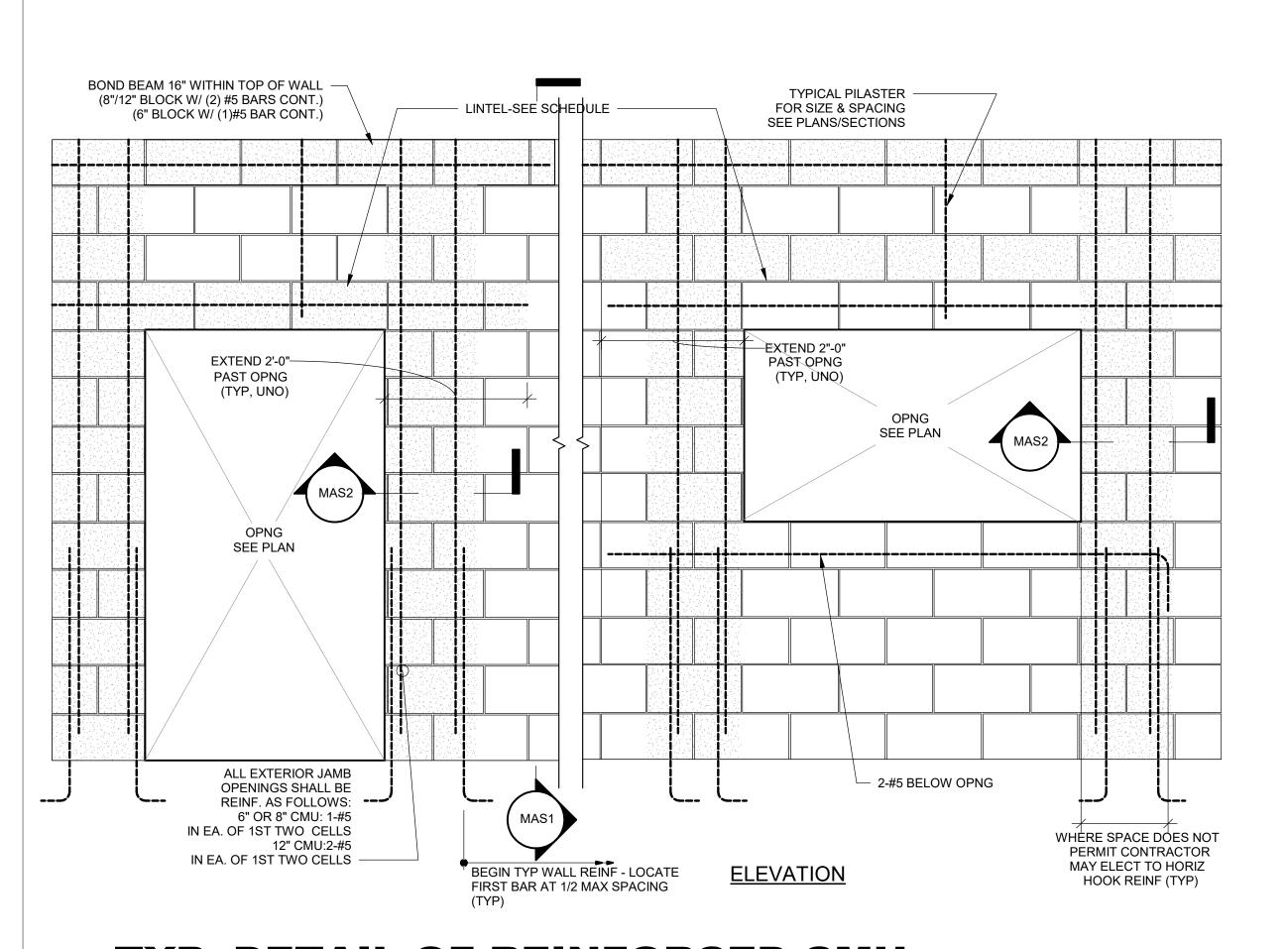


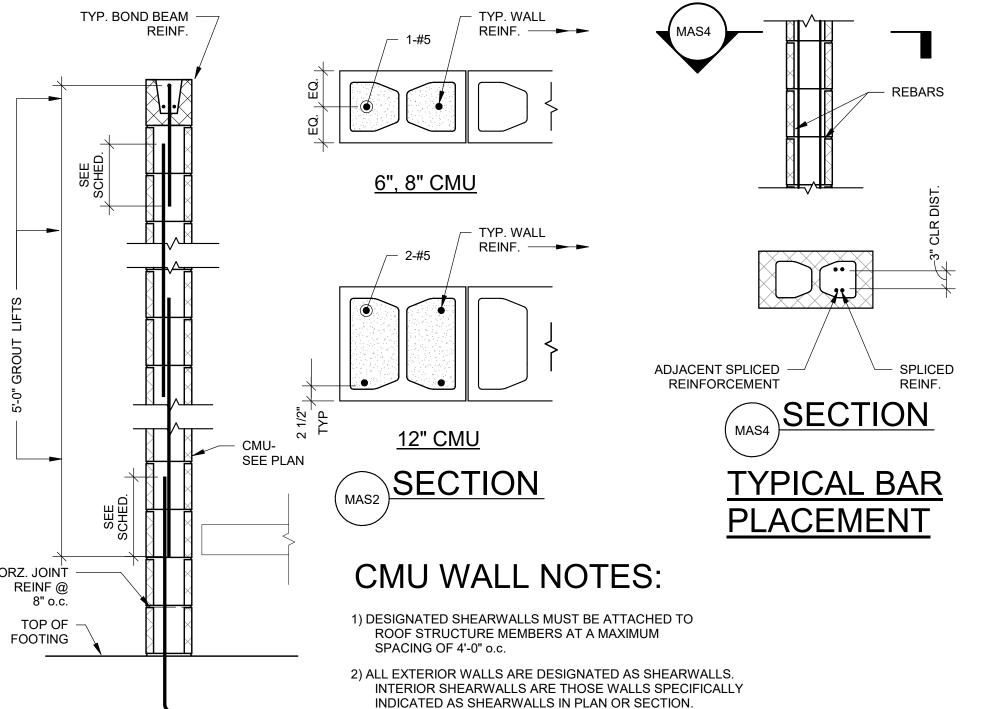
- NOTES:

 1. LOOSE LINTELS SHALL BE HOT-DIP GALVANIZED U.N.O. 2. WHERE ANGLE SIZES ARE NOT AVAILABLE, BENT PLATES ARE
- ALLOWED TO BE SUBSITUTED. 3. "h" DENOTES ANGLE HORIZONTAL LEG VARIES BASED ON AIR
- SPACE AND BRICK DIMENSIONS. 4. BEAR LOOSE LINTELS A MIN. OF 8" ON EACH SIDE OF
- 5. DO NOT USE THE BRICK LINTEL SCHEDULE WHERE DIMENSIONS DO NOT MEET MINIMUM WALL DIMENSIONS IN THE ALLOWABLE WALL DIMENSIONS DIAGRAM.

BRICK LINTEL SCHEDULE

S4.02 SCALE: 3/4" = 1'-0"

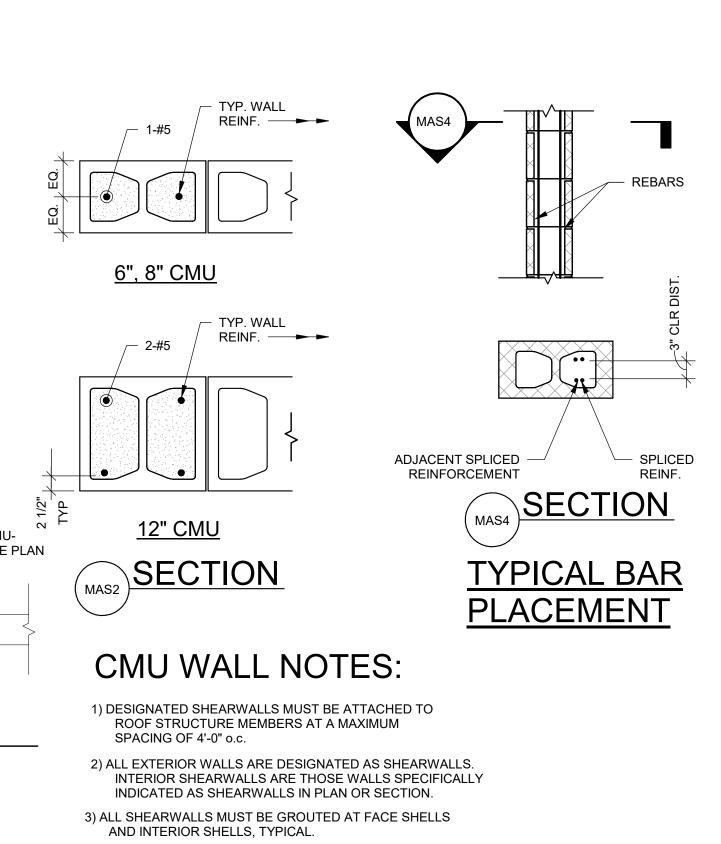




TYP. DETAIL OF REINFORCED CMU

WALL OPENING

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





HEARD COUNTY FIRE STATION #5

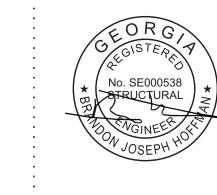
 \times

SECTION

365 Joe Stephens Road Franklin, GA 30217

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

RELEASED FOR CONSTRUCTION REVISIONS Description 3/6/24 : Issued For Bid



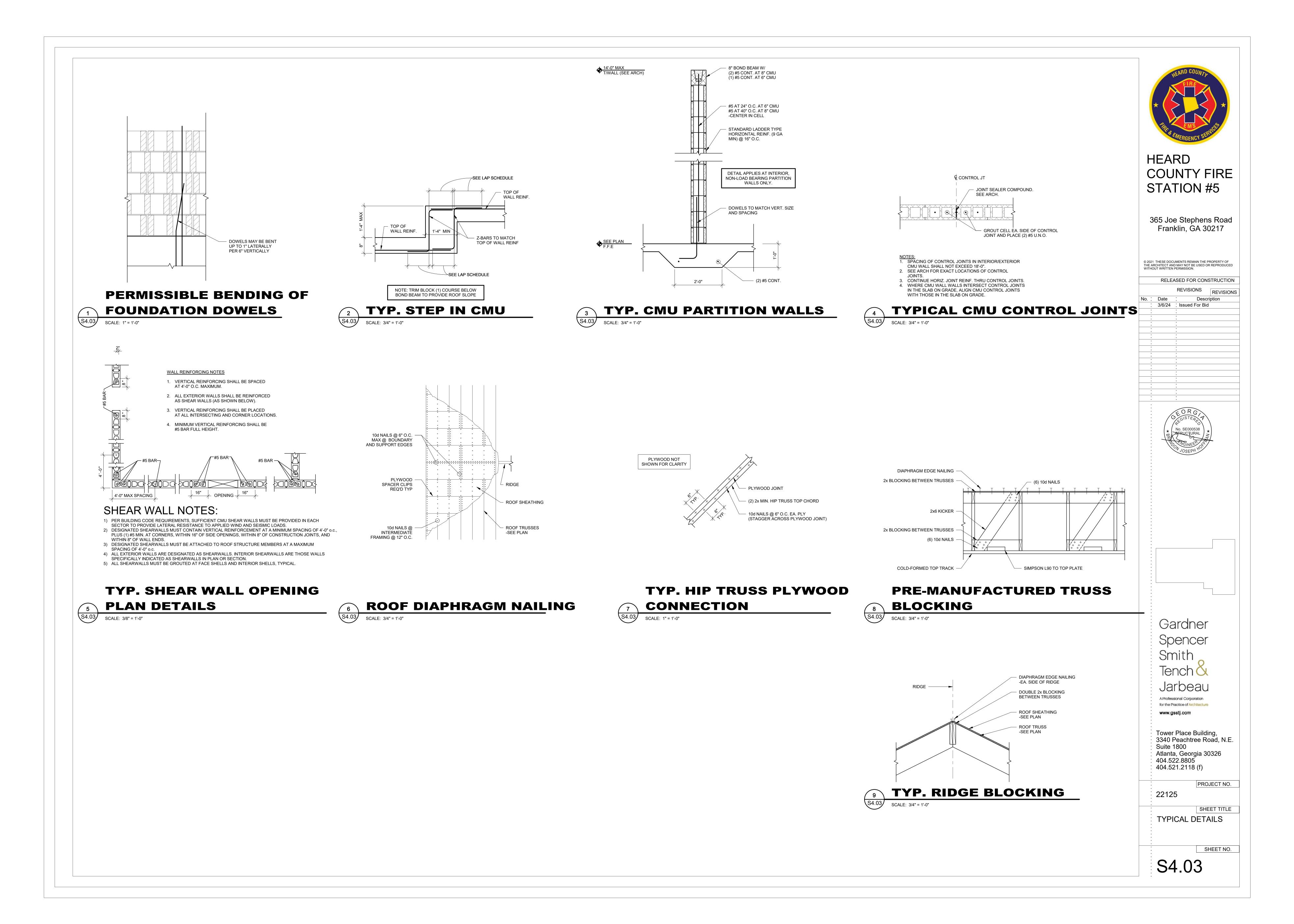
Gardner Spencer Smith

> Jarbeau A Professional Corporation for the Practice of Architecture

www.gsstj.com

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

SHEET TITLE TYPICAL DETAILS



GENERAL NOTES

WITH ALL—THREAD RODS.

- 1. SEAL ALL INTERNALLY-LINED AND NON-INSULATED DUCT AND PIPING PENETRATIONS THRU WALLS WITH ANGLES/ RINGS AND CAULK. FOR EXTERNALLY- INSULATED DUCT & PIPE, PROVIDE PACKED INSULATION IN WALL OPENING AROUND INSULATION. MAINTAIN CONTINUOUS DUCT
- INSULATION THROUGH ALL WALL PENETRATIONS. 2. SUPPORT ALL SUSPENDED MECHANICAL EQUIPMENT
- 3. PROVIDE STRUCTURAL BRACING FOR ALL LOAD BEARING WALL AND ROOF PENETRATIONS.
- 4. ALL PENETRATIONS OF DUCTWORK, PIPING CONDUITS, AND VENTS THRU FIRE-RATED AND SMOKE-RATED BARRIERS SHALL HAVE FIRESTOP AND/OR SMOKE STOP PROTECTION IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM BUILDING CODE.
- 5. ALL HVAC UNITS 2,000 CFM AND OVER SHALL HAVE A DUCT-MOUNTED SMOKE DETECTOR (PROVIDED BY DIV.16 AND INSTALLED AND INTERLOCKED FOR SHUTDOWN UNDER DIV. 23), IN THE SUPPLY AIR DUCT, & SHALL SHUTDOWN UNIT UPON DETECTION OF SMOKE. SEE SPECIFICATIONS.
- 6. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS & ELEVATIONS OF ALL CEILING DEVICES, HIGH-SIDEWALL DEVICES, AND LOUVERS.
- 7. ALL VISIBLE SURFACES THRU RETURN/TRANSFER/ EXHAUST GRILLES/REGISTERS SHALL BE PAINTED FLAT
- 8. ALL BALANCING OF AIR DISTRIBUTION DEVICES SHALL OCCUR AT THE TAKE-OFF MANUAL VOLUME CONTROL DAMPERS (WHERE PROVIDED). FOR THESE APPLICATIONS, ALL DEVICE-MOUNTED DAMPERS -RADIAL DAMPERS, OBDs, ETC., SHALL BE SET FULL OPEN, AS THESE DAMPERS ARE INTENDED ONLY FOR TEMPORARY SEASONAL ADJUSTMENTS BY THE OWNER.
- 9. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT ALL UNITS
- WITH FANS @ INLETS & OUTLETS. 10. HOLD ALL PIPING AND DUCTWORK TIGHT TO STRUCTURE IN <u>ALL</u> AREAS. NOTE THERE ARE HIGH CEILINGS IN MANY AREAS WHICH WILL REQUIRE CLOSE COORDINATION WITH OTHER TRADES DURING SHOP DRAWING PREPARATION AND DURING CONSTRUCTION.

- 11. IT IS VERY IMPORTANT TO PROTECT ALL EQUIPMENT AND DUCTWORK FROM WEATHER, CONSTRUCTION DUST, AND VARIOUS DEBRIS DURING THE ENTIRE CONSTRUCTION PHASE. ONCE EQUIPMENT AND DUCTWORK IS ON SITE, IT SHALL BE COVERED AND SEALED FOR PROTECTION. ONCE EQUIPMENT AND DUCTWORK IS INSTALLED, OPENINGS AND DUCTS ENDS SHALL BE COVERED AND SEALED TO PREVENT INNER (AND OUTER FOR EQUIPMENT) SURFACES FROM DUST AND DEBRIS. COVERINGS SHALL BE REMOVED ONLY WHEN ALL GYP.-BOARD SANDING HAS TAKEN PLACE IN AFFECTED AREAS AND FINAL DIFFUSER, REGISTER, AND GRILLE CONNECTIONS ARE MADE. SPECIAL ATTENTION SHALL BE SHOWN DURING ALL GYP.-BOARD SANDING. ALL SURFACES OF EQUIPMENT AND DUCTWORK SHALL BE CLEANED OF THIS DUST ONCE SANDING IS COMPLETED IN AFFECTED AREA (NOTE ALL EQUIPMENT AND DUCTWORK SHALL REMAIN
- SEALED-OFF DURING SANDING). 12. ARCHITECT SHALL SELECT/APPROVE FINISH COLOR OF ALL EXPOSED EQUIPMENT (GRILLES, REGISTERS, DIFFUSERS, LOUVERS, DUCTWORK, ETC.).

DIF	FUSERS,	REGISTERS, AND GRILLES SCHEDULE					
MARK	<u>NECK</u>	<u>DESCRIPTION</u>					
S-1A(S) S-1B S-1C S-1D S-1E	6"ø 8"ø 10"ø 12"ø 14"ø	SQUARE, ARCHITECTURAL PLAQUE, CEILING SUPPLY AIR DIFFUSER: ALL ALUMINUM CONSTRUCTION, 2'x2' LAY-IN CEILING-TYPE PANEL (1'x1' PANEL FOR S-1AS), 360° PATTERN. PROVIDE DB BLANK-OFFS WHERE SHOWN ON PLANS. TITUS OMNI-AA OR APPROVED EQUIVALENT PRODUCT.					
R-1A R-1B R-1C	22"x10" 22"x22" 22"x46"	CEILING RETURN/TRANSFER AIR EGGCRATE GRILLE — R-1A-24x12 PANEL SIZE, R-1B-24x24 PANEL SIZE, R-1C-24x48 PANEL SIZE. 1/2"x1/2"x1/2" (SINGLE CORE) ALUM. GRID CORE. LAY-IN, T-BAR CEILING MODULE. TITUS 50F OR APPROVED EQUIVALENT PRODUCT.					
E-1	SIZE AS SHOWN ON DRAWINGS	HEAVY DUTY RETURN GRILLE/EXHAUST AIR REGISTER; ALL ALUMINUM CONSTRUCTION, 1/2" SPACING, 0 DEGREES FIXED FRONT 0.125" THICK BLADES PARALLEL TO LONG/HORIZONTAL DIMENSION, 0.05" THICK FRAME, ALUMINUM OBD FOR E-1 ONLY. TITUS 60FL, (W/OBD), OR APPROVED EQUIVALENT PRODUCT.					
DG	SIZE AS SHOWN ON DRAWINGS	SIGHT-PROOF, ALL-ALUMINUM DOOR GRILLE - INVERTED V-BLADES PARALLEL TO LONG DIMENSION (HORIZ.), SURFACE-MOUNT FRAME WITH COUNTERSUNK HOLES, & AUXILIARY INSIDE FRAME. TITUS CT-700 OR APPROVED EQUIVALENT PRODUCT.					
ALL DEVICES	S' FINISH COLOR	SHALL BE SELECTED/APPROVED BY THE ARCHITECT.					

	SPLIT SYSTEM HEAT PUMP SCHEDULE															
144514			COOL	JNG			HEATING				INDOOR	UNIT		BASIS OF	F DE	SIGN - TRANE
MARK	MI	3H SEN	E.A DB°F	v.T. WB°F	MIN. SEER/EER	SELECTRIC HEATER KW	REV. CYCLE MBH ②	СОР	HSPF	SA CFM	ESP IN.WC.	OA CFM	HP	INDOOR UNIT	TYPE	OUTDOOR
FCU-1/HP-1	43.6	30.3	74.1	62.1	16.0/12.3	24			7.50	1500	0.60	195	1	GAM5B0C48	UF	4TWR5042
FCU-2/HP-2	21.8	17.6	74.8	62.7	14.3/11.7	9.6	14.6	2.60	7.50	800	0.60	105	1/3	TEM4B0B24	UF	4TWR4024
FCU-3/HP-3	21.8	16.9	75.1	62.8	14.3/11.7	9.6	14.6	2.60	7.50	750	0.60	105	1/3	TEM4B0B24	UF	4TWR4024
	IES TO COOLING	ALL UN 3 UNIT HEATING	NITS) CAPAC G AND	ITIES A	RE AT 95°F	DB AMBIENT 7°F OUTDOOR		RE.	4 F	PROVIDE SOLUTIO	AND IN	ISTALL IN CI-2 BI-	FAN (POLAR	COIL UNIT (FCU)	, ONE IT (OR	FOR SYSTEM VOLTAGE. GLOBAL PLASMA EQUAL). UNIT SHALL BE E UNIT'S POWER BOARD.

			DI	JCTLESS	SPLI	T SYST	EM SC	CHED	ULE			
			HP	AC		COOLIN	1G ①				BASIS OF DES	IGN - TRANE
MARK	SPACE SERVED	FCU ARRANGEMENT	WEIGHT (LBS)	WEIGHT (LBS)	NOM. TONS	CAPACITY MBH	E.A.T. DB/WB°F	SEER	EER	SUPPLY AIR FAN CFM	INDOOR UNIT (AC) TRANE	OUTDOOR UNIT (HP) TRANE
AC/CU-1	I.T., 124	HIGH-SIDEWALL	103	92	1	12/9	80/67	21.3	13.3	385	TPKA0121LA10A	TRUZA0121KA70NA Q

- (1) UNIT CAPACITIES ARE AT 95°F DB AMBIENT OAT.
- 2 PROVIDE HAIL GUARD (HG-A6) AND AIR OUTLET GUIDE (PAC-SG59SG-E).
- 3 PROVIDE OPTIONAL HIGH LIFT CONDENSATE DRAIN PUMP (SUITABLE FOR AC-UNITS UP TO 5.6 TONS); 5.0 GPH MAX. FLOW RATE; 10' MAX. SUCTION HEAD; 33' MAX. DISCHARGE HEAD (@ 1 GPH) W/ ALL REQUIRED ACCESSORIES.

						FA	N SCHE	DULE		
–			FAN DA	TA			CONTROL	5.A.L. TVD5	WEIGHT	DACIC OF DECICAL
MARK	СҒМ	E.S.P. " W.C.	FAN RPM	HP/WATTS	DRIVE	MAX. SONES	CONTROL	FAN TYPE	LBS.	BASIS OF DESIGN GREENHECK U.N.O.
F-TE-1	75	0.25	893	14W	DIRECT	0.6	INTERLOCK	CEILING EXHAUST	17	SP-A110
F-VENT-1	555	0.625	1478	321W	DIRECT	2.0	CONTINUOUS	INLINE CABINET FAN	36	CSP-A780 (1)
F-EXH-1	2500	0.579	1750	1/2HP	DIRECT	34	TXSXCOXNO2	WALL-MOUNTED PROP	76	AER-24-EXH (2) AER-24-EXH (2) CUE-100-A (3)
F-EXH-2	2500	0.579	1750	1/2HP	DIRECT	34	T\S\CO\02	WALL-MOUNTED PROP	76	AER-24-EXH 2
F-KHE-1	800	1.0	1655	1/4HP	BELT	9.4	SWITCH	WALL-MOUNTED KHE	82	CUE-100-A (3)
MAF-1	640	0.5	1263	1/4HP	DIRECT	5.0	INTERLOCK	CENTRIFUGAL INLINE	40	SQ-100-VG (1)

- PROVIDE ALUM. WHEEL, BACKDRAFT DAMPER, UL LISTING, THERMAL OVERLOAD, SOLID—STATE SPEED CONTROLLER MOUNTED AT FAN, & HANGING ISOLATORS.
- PROVIDE CAST ALUMINUM BLADES, BALL BEARING NEMA "PREMIUM" EFFICIENT MOTOR, AUTO BELT TENSIONER, SPARE BELT SET, UL—LISTING, LONG WALL HOUSING FLUSH EXTERIOR, PERMATECTOR COATING FOR ENTIRE ASSEMBLY, CLOSURE ANGLES, EXTENDED LUBE LINES, WRING PIGTAIL, MOTOR—OPERATED DAMPER W/ACTUATOR & END SWITCH
- PROVIDE SIDEWALL-MOUNTED, ALUMINUM HOUSING, WITH BACKWARD INCLINED ALUMINUM WHEEL, DRAIN TROUGH, BALL-BEARING EC-TYPE MOTOR, 10" THICK WALL SLEEVE, UL-705(SC) LISTED, NEMA 3R DISCONNECT, JUNCTION BOX MOUNTED & WRED, HINGE-MOUNT, HIGH TEMP. WALL SLEEVE SEAL, GREASE PAN KIT, & GREASE TRAP.

	KITCHEN HOOD SCHEDULE											
MARK	EXH. CFM	SP IN.WC		LENGTH INCH		TYPE TYPE 1, BAFFLE FILLER SINGLE LINE WALL-EXHAUST ONLY	BASIS OF DESIGN GREENHECK U.N.O.					
KH-1	800	0.48	1600	48	48	WALL CANOPY (3)	GHEW-48-S (1)(2)(4)					

- 1 PROVIDE ANSUL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEM, MOUNTED IN ADJACENT TO KITCHEN CABINET.
- 2 THE ANSUL SYSTEM SHALL BE INTERLOCK WITH KITCHEN HOOD SUPPLY FAN AND ELECTRICAL SHUT-OFF.
- 3 FIELD COORDINATE EXHAUST COLLAR LOCATION TO MISS STRUCTURAL BEAMS ABOVE
- 4 PERFORATED STAINLESS STEEL SUPPLY PLENUM.

	ELECTRIC HEATER SCHEDULE											
MARK	TYPE	ĸw	CFM	SERVES	BASIS OF DESIGN	REMARKS						
EIH-1-4	ELECTRIC INFRARED HEATER	9.5	-	APARATUS BAY	MARKEL FSS SERIES-9520-3	(1)(2)						
EDH-1	ELECTRIC DUCT HEATER	11	-	KITCHEN MAKE-UP AIR	GREENHECK IDHE	(3)						
2 PROVIDE M	D BY WALL THERMOSTAT. ANUFACTURE MOUNTING RIGID AIR TEMPERATURE SENSOR				•							

\vdash		LIVAC DUOT CYA	HVAC LEGEN		DIDING SYMPOLS
\vdash	DOUBLE-LINE	HVAC DUCT SYM SINGLE-LINE	IBOLS DESCRIPTION	SYMBOL	PIPING SYMBOLS DESCRIPTION
_	DOOBLE-LINE		DESCRIPTION	STMBOL	DESCRIPTION
	₹ 12x6 ₹	12x6	DUCT (WDTH x DEPTH)	 0	ELBOW UP
			DUCT TURNED UP	+ ə	ELBOW DOWN
			(SUPPLY OR DISCHARGE)	ABBREVIATIONS	DESCRIPTION
	₹ [[×]	X	DUCT TURNED DOWN	AC	AIR CONDITIONING UNIT
			(SUPPLY OR DISCHARGE)	AFF	ABOVE FINISHED FLOOR
		$\overline{}$	DUCT TURNED UP (RETURN OR EXHAUST)	BHP	BRAKE HORSEPOWER
		<u> </u>	DUCT TURNED DOWN	CAP	CAPACITY
	7 11 7		(RETURN OR EXHAUST)	CD	CEILING DIFFUSER
			DUCT TURNED UP	CFM	CUBIC FEET PER MINUTE
			(OA SUPPLY OR DISCHARGE)	CKT	CIRCUIT
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>	DUCT TURNED DOWN	CLG	CEILING
			(OA SUPPLY OR DISCHARGE)	COP	CARBON MONOXIDE COEFFICIENT OF PERFORMANCE
	₹R ₹		RISE	CU	CONDENSING UNIT
		D	IN DIRECTION OF AIR FLOW	CV	CONSTANT VOLUME
	\$10 \$		DROP	D	CONDENSATE DRAIN
			DUCT TURN WITH	DD	DIRECT DRIVE
	77	1	RADIUS ELBOW	۴	DEGREES FAHRENHEIT
			SQUARE TURN WITH	DB	DRY BULB
	<u>ل</u> ـــ ا	l	VANED ELBOW	DG	DOOR GRILLE
	世	<u> </u>	BRANCH DUCT TAKEOFF	ΔΤ	DELTA T
			(ALWAYS WITH VCD)	DX	DIRECT EXPANSION COIL
	£3	====	LINED DUCTWORK	EAT ECON	ENTERING AIR TEMPERATURE ECONOMISER
		1	FIRE DAMPER IN	EER	ENERGY EFFICIENCY RATIO
	}		HORIZONTAL DUCT	ELECT	ELECTRICAL
	FD	FD	FIRE DAMPER IN	ERD	EQUIPMENT ROOM DRAIN
			VERTICAL DUCT	ES	EQUAL SPLIT
	▼ FD	₩FD		ESP	EXTERNAL STATIC PRESSURE
	- \\\\	- \\\\	FLEXIBLE AIR DUCT	EUH	ELECTRIC UNIT HEATER
	 	1	VOLUME CONTROL	EWH	ELECTRIC WALL HEATER
	1 1		DAMPER	E, EXH	EXHAUST
	_	_		FDL	FIRE—RATED DOOR LOUVER
	1		MOTOR OPERATED	GIH GER	GAS INFRARED HEATER GAS/ELECTRIC ROOFTOP UNI
	 MOD	MOD	DAMPER	GPH	GALLONS PER HOUR
		<u></u>		GPM	GALLONS PER MINUTE
	}		DUCT SMOKE DETECTOR	HP	HORSEPOWER, HEAT PUMP
	'SD'	(SD)		IEER	INTEGRATED ENERGY EFFICIENCY RATIO
	√	√	AIR FLOW INTAKE OR EXHAUST	IG	ION GENERATOR
	S	S	SWTCH	IN	INCHES
	(T)	T	THERMOSTAT/SENSOR	KHE	KITCHEN HOOD EXHAUST
		_	· ·	kW	KILOWATT
	\oplus	\bigoplus	RELATIVE HUMIDITY SENSOR	LAT LBS	LEAVING AIR TEMPERATURE POUNDS
	CO	©	CARBON MONOXIDE SENSOR	MAU	MAKE-UP AIR UNIT
	(NO2)	NO2	NITROGEN DIOXIDE SENSOR	MAX	MAXIMUM
	1 - (U) -	√(U) -	3/4" DOOR UNDERCUT	MBH	BTU per HOUR x 1000
				MIN	MINIMUM
				MOD	MODULATING, MOTOR-OPERATED
Γ	•			NO2	DAMPER NITROGEN DIOXIDE
	5 4	<u>/</u>	E SCHEDULE)	NO2 NOM	NOMINAL
	$\sqrt{\frac{5-1}{250}}$	AIR DISTR	IBUTION DEVICE	OA	OUTSIDE AIR
		CFM (AIR	FLOW)	OAT	OUTSIDE AIR TEMPERATURE
				OE/OED	OPEN END DUCT - COVER WITH 1/2" WIRE MESH
	ABBREVIATIONS		DEȘCRIPTION	OBD	OPPOSED BLADE DAMPER
L	(CONT.)		(CONT.)	ø	ROUND
L	T'STAT	THERMOSTAT		R	REFRIGERANT PIPING, RETURI
\vdash	TTS TYP	TIGHT TO STR	KUCTUKE	RA	RETURN AIR
\vdash	UNO	UNLESS NOTE	D OTHERWISE	REV	REVERSE
\vdash	VCD	VOLUME CONT		RPM	REVOLUTIONS PER MINUTE
	VENT	VENTILATION		S	SWITCH
	WB	WET BULB		S, SA	SUPPLY AIR
	WC	WATER COLUM	AN	SEN. SPECS	SENSIBLE SPECIFICATIONS
	WT	WEIGHT		SS	STAINLESS STEEL
lacksquare				TE	TOILET EXHAUST
\vdash				T/S	TOTAL/SENSIBLE
L				ТОТ	TOTAL
Ĺ					
_					
\vdash					



HEARD **COUNTY FIRE** STATION #5

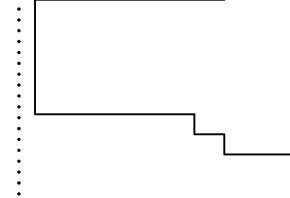
365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

		R	REVISIONS	REVISIONS
No.	Date	•	Desc	cription
	3/6/24	•	Issued for Bi	id
:		:		
•		:		
:		:		
:		•		
•		:		
•		•		
•		•		
		•		
:		•		
		•		
		•		
		:		
:		•		
:		•		
:		•		





A Professional Corporation for the Practice of Architecture

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326404.522.8805404.521.2118 (f)

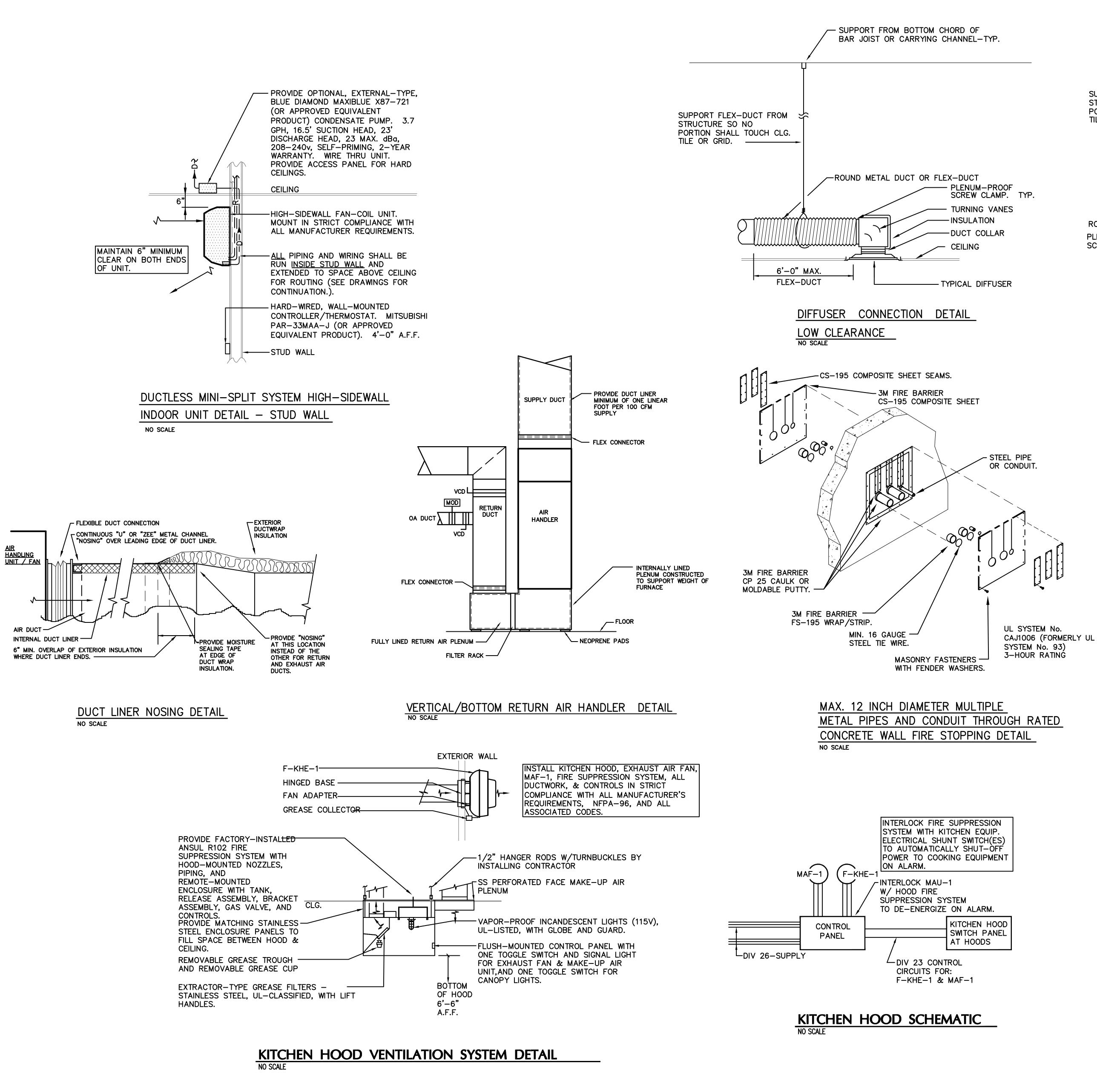
22125

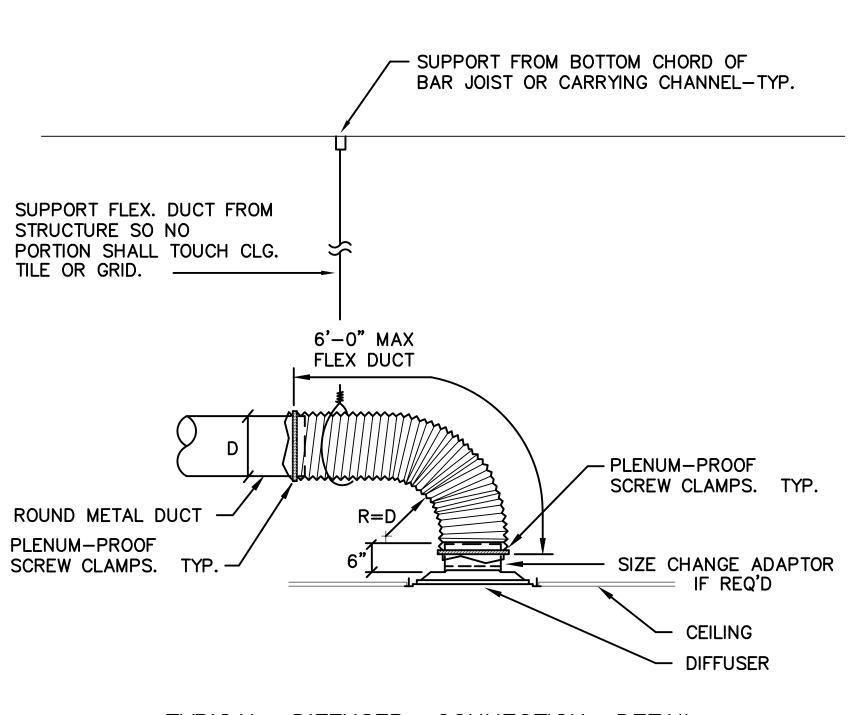
SHEET TITLE HVAC LEGEND, SCHEDULE & NOTES

PROJECT NO.

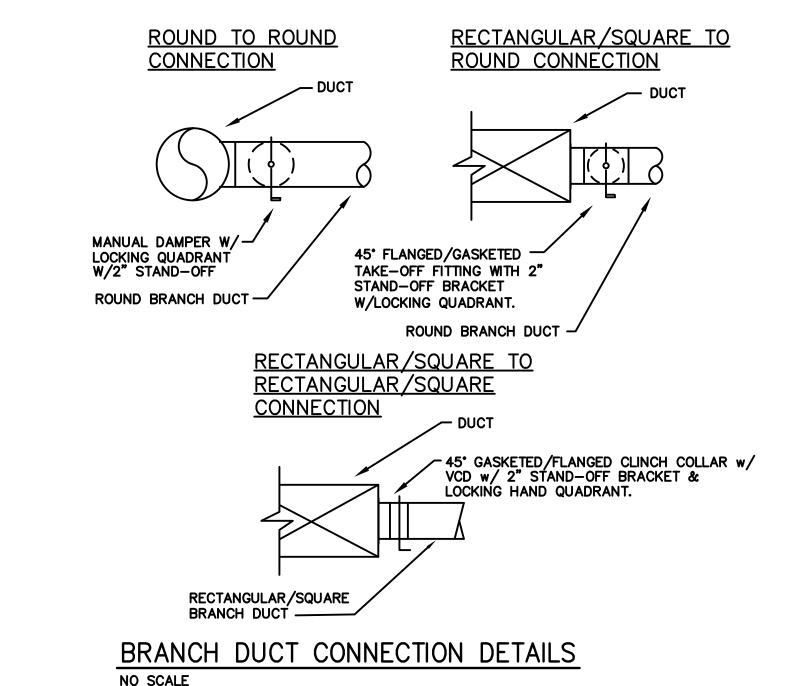
SHEET NO.

M0.01





TYPICAL DIFFUSER CONNECTION DETAIL



METAL STUD WALL
FRAME ALL FOUR
SIDES, FINISH
NEATLY AND
SECURELY TO
SHEETROCK

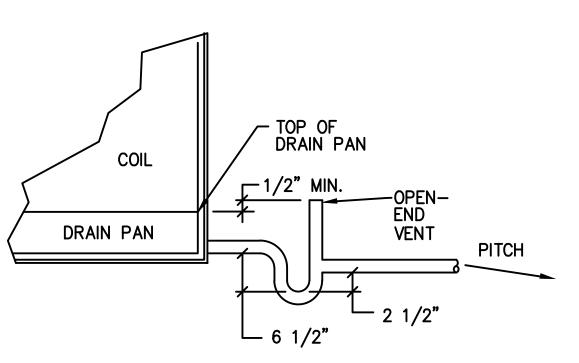
SHEETMETAL DUCT

DUCT WRAP DUCT
INSULATION

CAULK AIR—TIGHT
INSULATION

NOTE THAT WALL FRAME MUST BE INSTALLED PRIOR TO INSTALLING DUCTWORK THROUGH WALL OPENING

DUCT PENETRATION—WALLS TO STRUCTURE
NO SCALE



CONDENSATE DRAIN
TRAP DETAIL
NO SCALE



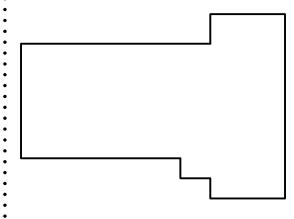
HEARD
COUNTY FIRE
STATION #5

365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.





Gardner
Spencer
Smith
Tench &

A Professional Corporation for the Practice of Architecture

Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f)

22125

NAC DETAILS

ROJECT NO.

SHEET TITLE

SHEET NO.

HVAC DETAILS

M0.02

SPECIFIED IN SECTION 22 1000 FOR SEALING ANNULAR SPACES AROUND PIPES, CONDUITS, WIRING, ETC. PENETRATING FIRE RESISTIVE CONSTRUCTION IS LISTED UNDER THE FOLLOWING UL CLASSIFIED SYSTEMS.

3M FIRESTOP SYSTEMS UL DIRECTORY

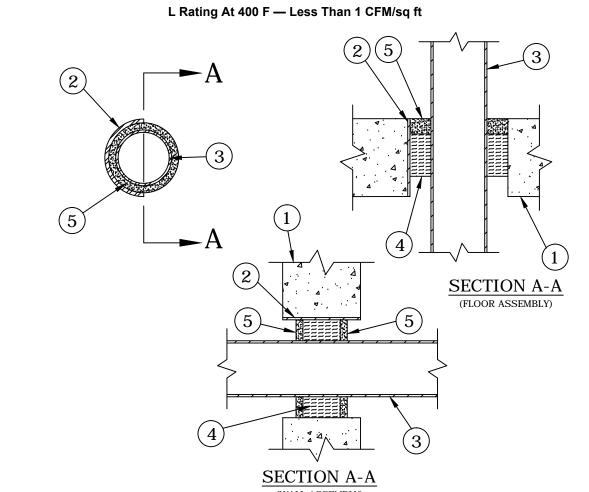
PENETRATING ITEM			GYPSUM	WOOD FLOOR/CEILING
PLASTIC PIPE	CAJ2001 CAJ2002 CAJ2003 CAJ2029 CAJ2005 FA2001 FA2002 - FS195/RC-1, CS195	CAJ2027 - FS195/CP25WB CAJ2028 - FS195/Putty CAJ5022 - FS195/RC-1 PP Insulated CAJ2040 CAJ2044 FA2011 FS195/ CP25WB	WL2005 PPD WL2003 WL2004 FS195/CP25WB WL2033 CS195/FS195, WL2032 CP25WB	FC2002 FC2007 FC2008 FC2009
METAL PIPE	CAJ1001 - CP25N/S,S/L CAJ1006 - CS195/FS195 CP 25 CAJ1007 - FS195 CAJ1010 CAJ1013 CAJ1014 CAJ1015 - CAJ1021 - FD150 CAJ1027 - Putty CAJ1032 - 2000/2003 CAJ1044 - CP25WB	CAJ1052 - CP25N/S,S/L CAJ1058 CAJ1063	WL1001 CP 25 WL1002 CP 25 WL1010 - 2000 WL1016 - CP25WB WL1017 - CP25N/S,S/L WL1032 - CP25 Caulks WL1036 - FD150 WL1037 - CS195/FS195, CP25WB	FC1002 - CP25N/S,S/ FC1003 - 2000 FC1006 - CP25WB
INSULATED METAL PIPE	CAJ5001 - CP25 Caulk CAJ5002 - FS195 CP25 Caulks CAJ5003 - FS195/RC-1 CAJ5005 - Putty CAJ5009 - 2000/2003 CAJ5017 - FS195/CP 25 CAJ5022 - FS195(Plastic Pipe		WL5001 WL5002 WL5009 WL5010 WL5011 - CP25WB WL5032 - 2000	FC5002 – FS195, CP25WB
INSULATED CABLE	CAJ2029 - FS195 CAJ3001 - CP25N/S,S/L CAJ3005 - CS195/FS195 CAJ3007 - 2001 Foam CAJ3010 2000/2003 CAJ3011 - 2001 Foam CAJ3014 FD150 CAJ3015 FD150 CAJ3021 - Putty CAJ3029 - 2000/2003	CAJ3030 - CP25WB CAJ3031 - CP 25 CAJ3041 - 2000/2003 CAJ3044 - FS195/CS195 CAJ3058 - FS195/RC-1 CBJ3016 - CS195/FS195 CP 25 CBJ3017 - CP25N/S,S/L or Putty WJ3015 WJ3016 - CS195/FS195 CP 25 CBJ3017 - CP25N/S,S/L	WL2032 - FS195/CS195,	FC3001 - CP25N/S,S/ FC3002 - 2000/2003 FC3007 - CP25WB FC3008 - FS195
CABLE TRAY	CAJ4003 - CS195,FS195, CP 25 CAJ4006 - FD150 CBJ4001 CBJ4003	CBJ4005 CBJ4021 CBJ4022 CBJ4200	WL4004 - CS195/FS195, CP25WB/Putty	
BUSWAY	CAJ6001 - CS195,FS195 CP 25	CAJ6002 - 2000/2003 FA6001 - CP25N/S,S/L		
GLASS PIPE	CAJ2006- FS195 CAJ2013- CP25WB	CAJ2019 - 2000/2003	WL2006 WL2013 FS195/CP25WB	
BLANK	CAJ0004 - CS195 CAJ0007 - CP25N/S,S/L or Putty CAJ0008 - 2000/2003 CAJ0009 - CP25WB	CBJ0019 CBJ0020 WJ0003		
CONSTRUCTION GAP	CAJ0034 - 2001 Foam CBJ1031 - 2000/2003 J900B - FS195(Floor) CP25N/S,S/L Cover Plate	J900C - CP25N/S,S/L, CP25WB(Floor) U900J CP25N/S,S/L U900L (Wall)		
MIXED PENETRATING ITEMS	CAJ8001 CS195,FS195, CBJ8004 CP 25 CAJ8013 - CP 25,FS195 CBJ8005 - CS195,FS195,M FA8001 - CP 25,FS195	CAJ8006 CBJ8001 2001 Foam	WL8002 - CS195,FS195, CP 25	
Misc. Mechanical (Vent Ducts)	CAJ7001 - CP25 Caulks CAJ7003 - CP25WB			FC7001 – CP25 Caulks

FIRE - RATED PARTITION PENETRATION SYSTEMS

System No. C-AJ-1009

May 09, 2013 F Rating — 2 Hr

T Rating — 0 Hr L Rating At Ambient — Less Than 1 CFM/sq ft



1. Floor or Wall Assembly — Min 5 in. (127 mm) thick reinforced normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of 2. **Metallic Sleeve** — (Optional) - Nom 6 in. (152 mm) diam (or smaller) electrical metallic tubing,

steel conduit or cast iron pipe cast or grouted into floor or wall assembly, flush with floor or wall 3. **Through Penetrants** — One metallic pipe or conduit to be centered within the firestop system. A nom annular space of 3/4 in. (19 mm) is required within the firestop system. Pipe or conduit to be

rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic

pipes or conduits may be used: A. Steel Pipe — Nom 4 in.(102 mm) diam (or smaller) Schedule 5 (or heavier) steel

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

4. Packing Material — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material. Packing material to be centered in walls mid depth and recessed to allow for installation of fill

5. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. In walls, fill material to be applied on each side of packing material.

3M COMPANY — Types FB-1000 NS, FB-1003SL (floors only), FB-2000 or FB-2000+ (floors

*Bearing the UL Classification Mark

System No.W-L-5001 May 19, 2005 F Ratings - 1 and 2 Hr (See Item 1) T Ratings - 3/4, 1 and 1-1/2 Hr (See Item 3) L Rating At Ambient - 2 CFM/sq ft L Rating At 400 F - less than 1 CFM/sq ft

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

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (25 mm by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC. B. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 in (368 mm) for wood stud walls and 18 in. (457 mm) for steel stud walls.

The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when

2. Through Penetrants - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* - Nom 1 in. or 2 in. (25 mm or 51 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory—applied self—sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. to max 3/8 in. (6 mm to max 10 mm). When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/2 in. to max 3/4 in. (13 mm to max 19 mm).

See Pipe and Equipment Covering — Materials (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (51 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.

4. Firestop System — Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:

A. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.

3M COMPANY - FS-195+

*Bearing the UL Classification Marking

B. Fill, Void or Cavity Materials* - Caulk or Sealant - Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

3M COMPANY - CP 25WB+, IC 15WB+, FireDam 150+ caulk or FB-3000 WT sealant

materials and in

2-1/2 in. (64

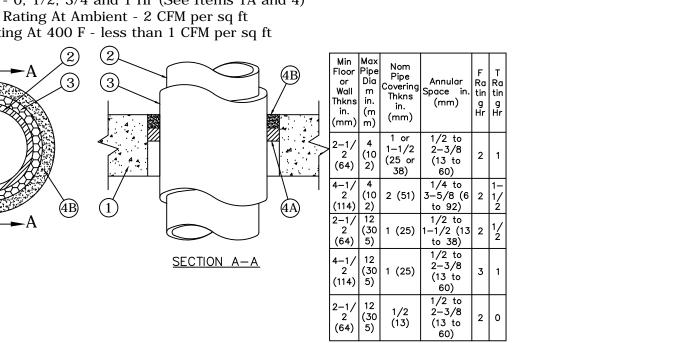
walls and

sizes of metallic

mm) crown is

June 15, 2005 F Ratings - 1-1/2, 2 and 3 Hr (See Item 4) T Ratings - 0, 1/2, 3/4 and 1 Hr (See Items 1A and 4) L Rating At Ambient - 2 CFM per sq ft L Rating At 400 F - less than 1 CFM per sq ft SECTION A-A

System No. C-AJ-5001



1. Floor or Wall Assembly - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 18 in. (457 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of

1A. Steel Sleeve (Optional, not shown) - Nom 10 in. (254 mm) (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. T Rating is 0 Hr when sleeve is used.

2. Through Penetrant - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper pipe, nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall

heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory—applied selfsealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.

3. Pipe Covering* - Nom 1/2 in. to 2 in. (13 mm to 51 mm) thick hollow cylindrical

See Pipe and Equipment Covering - Materials* (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Firestop System — The details of the firestop system shall be as follows:

A. Packing Material - Min 1 in. (25 mm) thickness of firmly packed mineral wool batt insulation used as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item B). B. Fill, Void or Cavity Material* - Caulk or Sealant — Applied to fill the annular space flush with the top surface of the floor or sleeve or flush with both surfaces of wall. When nom pipe covering thickness is 2 in. (51 mm), min thickness of caulk fill material is 2 in. (51 mm). When nom pipe covering thickness is 1-1/2 in (38 mm) or less, min thickness

of caulk fill material is 1 in. (25 mm) The hourly F and T Ratings of the firestop system are dependent upon the thickness of the floor or wall, the size of pipe, the thickness of pipe covering material and the size of the annular space (between the pipe covering material and the edge of the circular

through opening), as shown in the following table: 3M COMPANY - CP 25WB+ caulk of stemponovity eliano10 *Bearing the UL Classification Marking May 09, 2013 F Rating — 2 Hr

> L Rating At Ambient — Less Than 1 CFM/sq ft L Rating At 400 F — Less Than 1 CFM/sq ft

Directory and shall include the following construction features:

25-1/2 in. (648 mm) for steel stud walls.

pipes, conduits or tubing may be used:

formed around the penetrating item.

*Bearing the UL Classification Mark

SECTION A-A

1. Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to

of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min

mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of

exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel

installed between the vertical studs and screw-attached to the steel studs at each end. The framed

diam of the penetrating item such that, when the penetrating item is centered in the opening, a 2

(51 to 76 mm) clearance is present between the penetrating item and the framing in all four sides.

individual Wall and Partition Design. Max diam of opening is 14—1/2 in. (368 mm) for wood stud

Through Penetrants — One metallic pipe, conduit of tubing to be centered within the firestop

conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and

A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. A nom

B. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe. A nom

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

D. **CopperTubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. A nom

3. Fill, Void or Cavity Material* — Sealant — Min 1-1/4 in. (32 mm) thickness of fill material applied within

annulus on both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. (6

annular space of 3/4 in. (19 mm) is required within the firestop system.

annular space of 3/4 in. (19 mm) is required within the firestop system.

annular space of 3/4 in. (19 mm) is required within the firestop system.

NO SCALE

space of 3/4 in. (19 mm) is required within the firestop system.

3M COMPANY — Types FB-1000 NS, FB-2000, FB-2000+.

. **Gypsum Board*** — Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the

opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm)

the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire

T Rating — 0 Hr

1. Floor or Wall Assembly - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Min thickness of concrete floor or wall is 2-1/2 in. (64 mm) for 1 hr F Rating and 4-1/2 in. (114 mm) for 2 or 3 hr F Rating. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening 36 sq ft (3.4 m2) with one dimension of opening being 36 in. (914 mm) or less.

System No. C-AJ-1006

September 03, 2004

(Formerly System No. 93)

F Ratings - 1, 2 and 3 Hr (See Items 1 and 3)

L Rating At Ambient - 2 CFM/sq ft (See Item 5)

L Rating At 400 F - less than 1 CFM/sq ft (See Item 5)

SECTION A-A

T Rating - 0 Hr

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Pipe or Conduit - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. (152 mm) diam (or smaller) steel conduit, nom 4 in. (102 mm) diam (or smaller) steel EMT or nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. Min clearance between pipes 1 in. (25 mm) Min clearance between pipe and wall of through opening 1/4 in. (6 mm). When single nom 4 in. (102 mm) diam (or smaller) pipe, conduit or EMT is installed in nom 7 in(178 mm) diam (or smaller) circular through opening, min clearance between pipe, conduit or EMT and wall of through opening is 0 in. (0 mm) (point contact). Pipes and conduits rigidly supported on both sides of floor or wall assembly.

3. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in strips. Min 2 in. (51 mm) wide strip wrapped around pipe/conduit (foil side exposed) and secured in place with steel wire or aluminum foil tape. Wrap strip to extend approx 7/8 in. (22 mm) beyond each face of the intumescent sheet (Item 4). When nom 6 in. (152 mm) diam (or smaller) pipe, conduit or EMT is installed in through opening, no wrap strip is required on pipe, conduit or EMT for 2 hr F Rating. 3M COMPANY - FS-195+

4. Fill, Void or Cavity Materials* - Intumescent Sheet - Rigid aluminum foil-faced sheet with galv steel sheet backer. Sheet cut to tightly follow the contours of the pipe wrap strip (or individual pipe) and with a min lap of 2 in. (51 mm) on all sides of the through opening. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing against floor or wall surface). Sheet secured to top surface of floor and both sides of solid concrete or concrete block wall using min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel masonry fasteners with min 1-1/4 in. (32 mm) diam steel washers. Max spacing of fasteners not to exceed 6 in. (152 mm) OC. As an alternate when (1) the max pipe or conduit size is nom 4 in. (102 mm) diam, (2) each pipe or conduit is provided with a layer of wrap strip and (3) no bundled cables or insulated pipes are installed in the through opening, the intumescent sheet may be installed on bottom surface of floor or on only one side of solid concrete wall. 3M COMPANY - CS-195+

5. Fill, Void or Cavity Materials* - Graphite Seal, Caulk, Sealant or Putty - Generous application of caulk or putty to be applied around the base of the wrap strip (or individual pipe) at its egress from the intumescent sheet(s) in addition to completely covering the wrap strip up to the interface(s) with the pipe, pipe insulation and/or cable bundle. One layer of 1/2 in. (13 mm) x 1/16 in. (1.6 mm) adhesive backed graphite intumescent seal positioned under intumescent sheet around entire perimeter of through opening or min 1/4 in. (6 mm) diam continuous bead of caulk or putty applied to edge of intumescent sheet at its interface with surface of floor or

wall around entire perimeter of through opening. Prior to installation of the steel strip, slit in intumescent sheet covered with nom 1/4 in. (6 mm) diam bead of caulk (Item 5). Steel cover strip secured to galv steel backer of intumescent sheet with steel sheet-metal screws or steel rivets spaced max 2 in. (51 mm) OC on each side of slit. 3M COMPANY - E-FIS or Ultra GS seals, CP 25WB+ caulk, FB-3000 WT sealant, MP+ Stix putty. (Note: L Ratings apply only when CP 25WB+ caulk or FB-3000 WT sealant is used.)

6. Steel Cover Strip - Min 2 in. (51 mm) wide strip of min 0.015 in. (0.39 mm) thick (30 gauge) galv steel centered over entire length of slit made in intumescent sheet (Item 4) to permit installation about the pipe/cable bundle. Prior to installation of the steel strip, slit in intumescent sheet covered with nom 1/4 in. (6 mm) diam bead of caulk (Item 5). Steel cover strip secured to galv steel backer of intumescent sheet with steel sheet-metal screws or steel rivets spaced max 2 in. (51 mm) OC on each side of slit.

7. Support Channel (Not Shown) - When area of through opening exceeds 1440 sq in. (9.290 cm2), an intermediate support channel shall be installed flush with top surface of floor or both surfaces of wall. Support channels to be min 1-5/8 in. by 1-5/8 in. (41 mm by 41 mm) and formed of min 0.093 in. (2.36 mm) thick (No. 12 gauge) painted or galv steel. Ends of steel channel bolted or welded to steel angles anchored to inside walls of through opening. When steel support channels are centered beneath butted seams of intumescent sheets, no steel cover strip (Item 6) is required over butted seam. Intumescent sheet secured to steel support channels with steel sheet metal screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. When support channel is used beneath butted seam of intumescent sheets, fasteners spaced max 3 in. (76 mm) OC on each side of butted seam. When support channel is located away from intumescent sheet seam, fasteners spaced max 6 in. (152 mm) OC. Prior to installation of the intumescent sheet(s), a nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant (Item 5) shall be applied as gasket over the steel support channel.

*Bearing the UL Classification Mark

June 15, 2005 F Rating - 3 Hr T Ratings - 1, 1-1/2 and 2 Hr (See Item 2) L Rating At Ambient - 2 CFM/sq ft L Rating At 400 F - less than 1 CFM/sq ft Conduit 3 (76)

3/4 (19) 2

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of

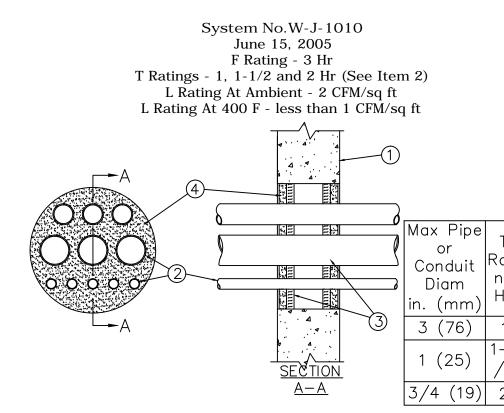
2. Steel Pipe or Conduit - Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe, steel conduit or steel electrical metallic tubing. Multiple pipes and/or conduit permitted in opening provided a min separation of 1/4 in. (6 mm) is maintained between pipes or conduits. Pipes and/or conduits to be rigidly supported

The T Rating of the firestop system is dependent upon the max diam of the pipes or conduits, as tabulated below:

4. Fill, Void or Cavity Materials* - Caulk or Sealant - Applied to fill the through opening to a min depth of 1 in. (25 mm) on both sides of wall assembly. 3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

FIRE - STOPPING DETAILS



1. Wall Assembly - Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600—2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 12 in. (305 mm).

on both sides of the wall assembly.

3. Packing Material - Min 1 in. (25 mm) thick rigid glass fiber insulation or mineral wool batt insulation firmly packed into opening on both sides of wall assembly as a permanent form. Packing material to be recessed min 1 in. (25 mm) from surface of wall on both sides of wall assembly.

3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 : 404.522.8805 404.521.2118 (f) ROJECT NO.

SHEET TITLE

SHEET NO.

22125

HEARD

COUNTY FIRE

365 Joe Stephens Road

Franklin, GA 30217

Organization Name

2021 THESE DOCUMENTS REMAIN THE PROPERTY OF

HE ARCHITECT AND MAY NOT BE USED OR REPRODUCED

REVISIONS

3/6/24 : Issued for Bid

Description

Date

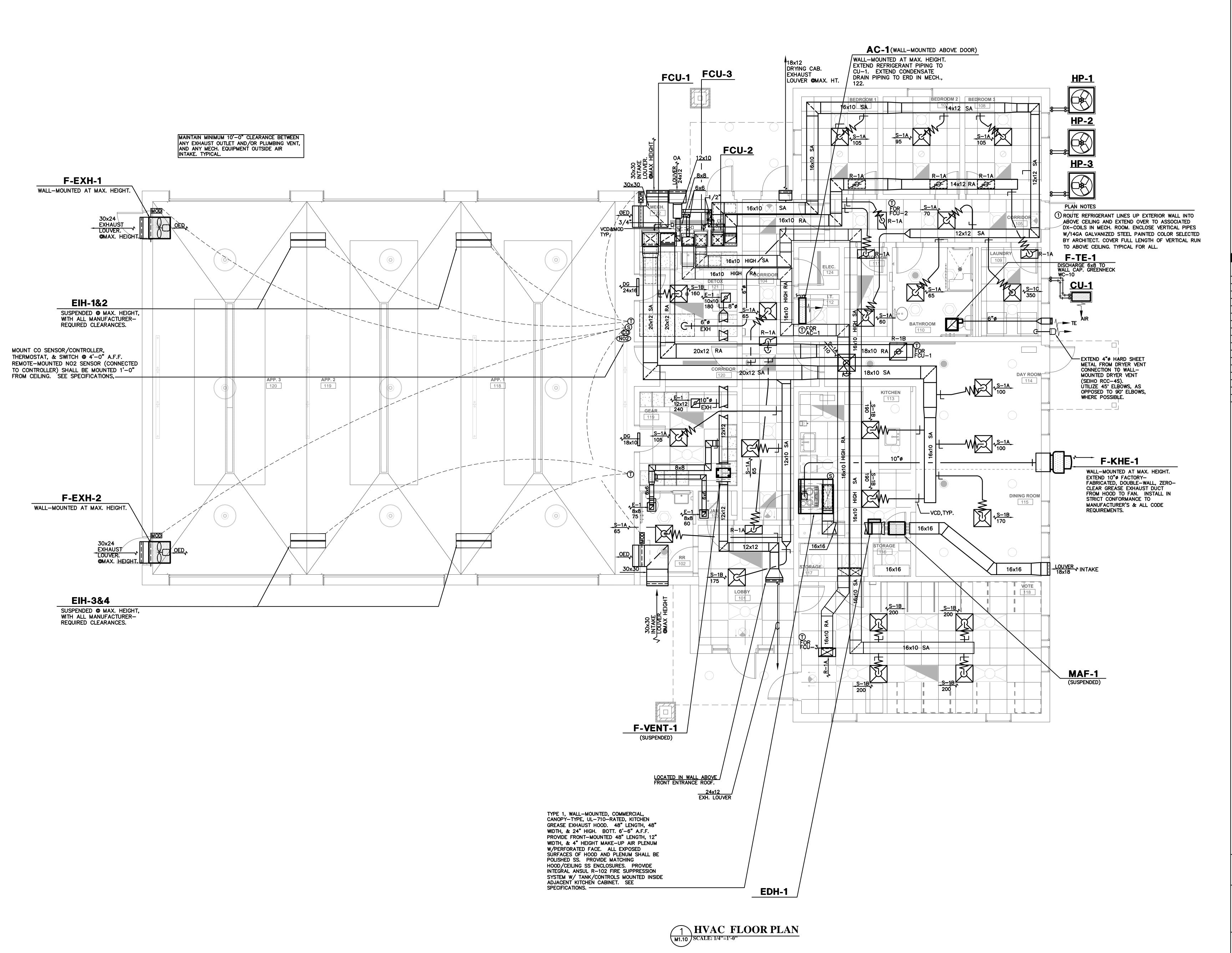
STATION #5

HVAC DETAIL & NOTES

A Professional Corporation

for the Practice of Architecture

Tower Place Building,





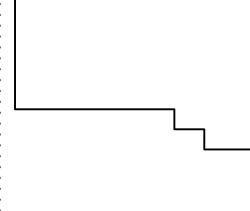
365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

		Ь	EVICIONIC	
		K	EVISIONS	REVISIONS
No. :	Date	•	Desc	ription
•	3/6/24	•	Issued for Bio	d
•		:		
•		•		
:		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•	-	
•		•		-





Gardner
Spencer
Smith
Tench &

A Professional Corporation for the Practice of Architecture

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

22125

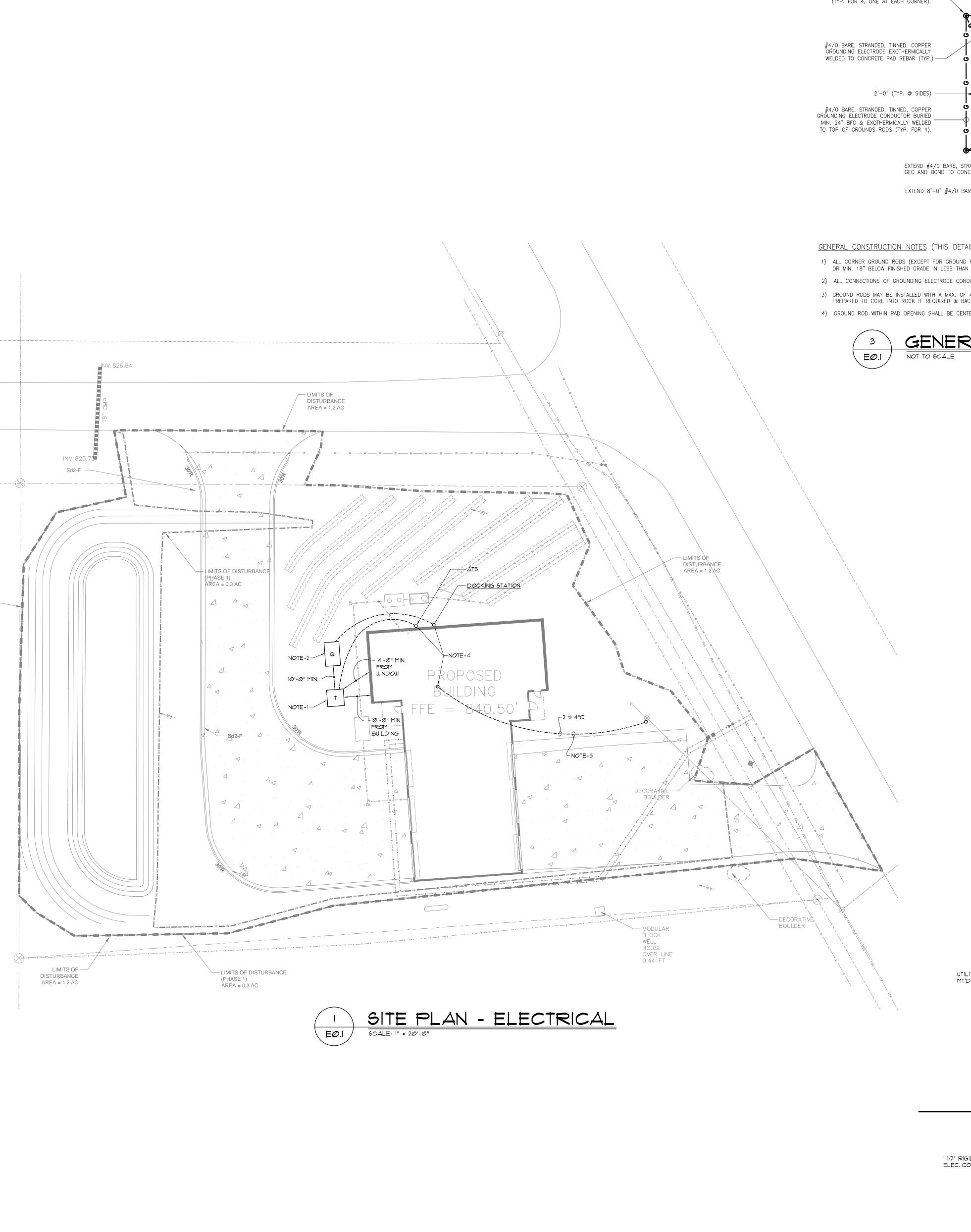
SHEET TITLE

PROJECT NO.

SHEET NO.

HVAC FLOOR PLAN

M1.10



3/4"ø x 10'-0"L COPPERCLAD STEEL GROUND ROD DRIVEN DOWN TO 24" BFG	3/4"ø x 10'-0"L COPPERCLAD STEEL GROUND ROD DRIVEN DOWN TO 2" ABOVE TOP OF PAD, & POSITIONED 2" OFF FACE OF PAD OPENING.	
(TYP. FOR 4, ONE AT EACH CORNER).	G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-	
#4/0 BARE, STRANDED, TINNED, COPPER GROUNDING ELECTRODE EXOTHERMICALLY WELDED TO CONCRETE PAD REBAR (TYP.)	GENERATOR PAD	
2'-0" (TYP. @ SIDES) #4/0 BARE, STRANDED, TINNED, COPPER GROUNDING ELECTRODE CONDUCTOR BURIED MIN. 24" BFG & EXOTHERMICALLY WELDED TO TOP OF GROUNDS RODS (TYP. FOR 4).		
GEC AND BOND TO CON	RANDED, TINNED, COPPER NCRETE PAD REBAR. ARE, STRANDED, TINNED, COPPER GEC ABOVE PAD.	#4/0 BARE, STRANDED, TINNED, COPPER GROUNDING ELECTRODE CONDUCTOR EXOTHERMICALLY WELDED TO BOTH GROUND RODS

GENERATOR PAD GROUNDING PLAN NOT TO SCALE

GENERAL CONSTRUCTION NOTES (THIS DETAIL ONLY):

- 1) ALL CORNER GROUND RODS (EXCEPT FOR GROUND ROD WITHIN PAD OPENING) & GROUNDING ELECTRODE CONDUCTORS SHALL BE BURIED 24" BELOW FINISHED GRADE (TYP., UON), OR MIN. 18" BELOW FINISHED GRADE IN LESS THAN IDEAL CONDITIONS WITH ENGINEER APPROVAL.
- 2) ALL CONNECTIONS OF GROUNDING ELECTRODE CONDUCTORS TO TOP OF ALL GROUND RODS SHALL BE BY EXOTHERMIC WELD.
- 3) GROUND RODS MAY BE INSTALLED WITH A MAX. OF 45° TO VERTICAL IF ROCK OR OTHER OBSTRUCTION PREVENTS O° TO VERTICAL EMBEDMENT INTO EARTH. CONTRACTOR SHALL BE PREPARED TO CORE INTO ROCK IF REQUIRED & BACKFILL WITH GROUNDING ENHANCEMENT MATERIAL AT NO ADDITIONAL COST TO OWNER. 4) GROUND ROD WITHIN PAD OPENING SHALL BE CENTERED HORIZONTALLY ACROSS THE REAR LONG DIMENSION OF THE OPENING.

GENERATOR PAD GROUNDING DETAIL

GENERAL ELECTRICAL NOTES

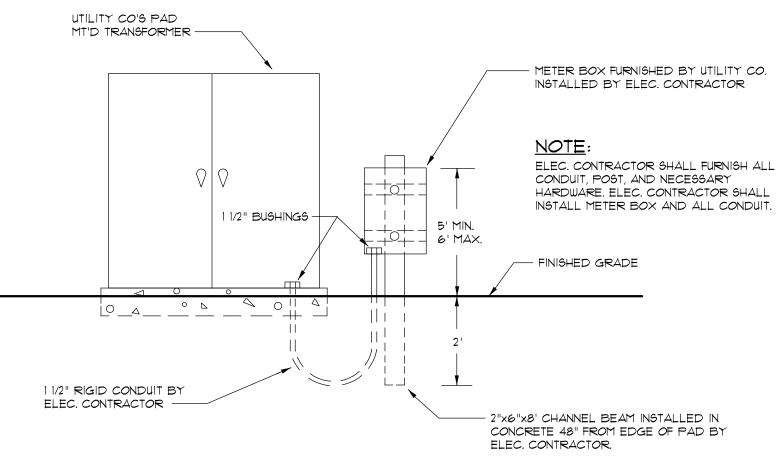
- A. MECHANICAL EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF EACH UNIT. B. CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK OR COST THEREOF, AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS, PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.
- C. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED ON THE DRAWINGS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.
- D. THIS CONTRACTOR SHALL VERIFY EXACT NAMEPLATE DATA ON ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND/OR BY THE OWNER (I.E., HVAC EQUIPMENT, KITCHEN EQUIPMENT, ETC.) PRIOR TO THE INSTALLATION OF ELECTRICAL WORK AND MAKE ANY ADJUSTMENTS TO OUTLETS, CONDUIT, WIRE, AND/OR CIRCUIT BREAKER AS REQUIRED TO MATCH EQUIPMENT ACTUALLY FURNISHED.
- E. ALL WALL MOUNTED DEVICES SHALL BE FLUSH MOUNTED.
- F. MANUFACTURED WIRING SYSTEM (RELOC) WILL NOT BE ALLOWED ON THIS PROJECT.
- G. ALL FEEDERS SHALL BE PROPERLY TORQUED. CONTRACTOR SHALL PROVIDE SIGNED AFFIDAVIT VERIFYING COMPLETION OF THIS PROCESS.
- AND WIRED BY DIVISION 26. PROPER MECHANICAL UNIT SHUT DOWN SHALL BE TESTED WITH BOTH DIVISIONS PRESENT AND RESULTS PROVIDED TO OWNER.
- J. THE OPERABLE PART OF EACH MANUAL PULL STATION SHALL NOT BE LESS THAN 42" AND NO MORE THAN 48" ABOVE FLOOR LEVEL PER NFPA 12.

H. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED BY DIVISION 26, INSTALLED BY DIVISION 23,

- K. WALL MOUNTED SPEAKER/STROBES, AND STROBES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS ARE NOT LESS THAN 80" A.F.F. AND NOT GREATER THAN 96" A.F.F. PER NFPA 12.
- L. CONTRACTOR SHALL INSTALL A 1" CONDUIT WITH PULL STRING FROM EACH P.I.V. VAULT TO ACCESSIBLE PLENUM INSIDE BUILDING. IDENTIFY CONDUIT INSIDE BUILDING AS "P.I.Y. VAULT".
- M. MC CABLE IS ONLY ALLOWED TO MAKE SHORT CONNECTIONS TO LAY-IN LIGHTING FIXTURES.
- N. Ø-10 VOLT DIMMING CONDUCTORS ARE NOT SHOWN, BUT ARE ASSUMED, AND SHALL BE INSTALLED.
- O. USB DUPLEX OUTLETS SHALL BE COMMERCIAL GRADE WITH TWO (2) TYPE "A", HIGH POWER, 3.1 AMP, 5 VOLT OUTPUTS. OUTLETS SHALL BE TAMPER RESISTANT. P. Ø-10 VOLT DIMMERS SHALL BE SLIDE TYPE (HUBBELL * DYSTY SERIES, BASIS OF DESIGN).
- Q. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF ALL DUCT MOUNTED SMOKE DETECTORS. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED BY DIVISION 26, INSTALLED BY DIVISION 23, AND WIRED BY DIVISION 26.

ELECTRICAL NOTES

- PROPOSED LOCATION FOR UTILITY COMPANY PAD MOUNTED TRANSFORMER. REFER TO 2/EØ.1 FOR ADDITIONAL INFORMATION.
- 2. PROPOSED LOCATION FOR EMERGENCY GENERATOR.
- 3. PROPOSED ROUTING AND TERMINATION LOCATION FOR COMMUNICATIONS SERVICE CONDUITS. COORDINATE EXACT ROUTING AND TERMINATION LOCATION AT PROPERTY LINE WITH LOCAL COMMUNICATIONS PROVIDER.
- 4. REFER TO I/EI,I FOR LOCATION OF CONDUIT TERMINATIONS WITHIN BUILDING.





SYMBOL	HEIGHT MAY VARY TO COINCIDE WITH BUILDING CONSTRUCTION. DESCRIPTION	MOUNTIN HEIGHT
0	DOWNLIGHT	HEIGHT
ю	LIGHT FIXTURE - WALL MOUNTED	AS NOTED
0	2' × 4' LIGHT FIXTURE	
•	2' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
	1' X 4' LIGHT FIXTURE	
	1' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
⊗	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS	
+⊗	INDICATE FACES OF FIXTURE EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS	
•	INDICATE FACES OF FIXTURE EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS	
⊢②	INDICATE FACES OF FIXTURE	
S _{K3}	KEY OPERATED THREE-WAY SWITCH	48"
S 	9.P.S.T. LIGHT SWITCH LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE CEILING MOUNTED	
 ₩	OCCUPANCY SENSOR (HUBBELL * OMNI-DT-2000, BASIS OF DESIGN) WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY (HUBBELL * LHMTS-1,	48"
	BASIS OF DESIGN) (SET TO MANUAL "ON", AUTO "OFF", 5 MIN. DELAY) LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE SURFACE MOUNTED,	
M	INDOOR, OCCUPANCY SENSOR FOR AREAS WHERE MOUNTING HEIGHT IS 12'-0"AFF OR HIGHER (HUBBELL # WSP-SM-24V SENSOR, WSP-L360-WH LENS, BASIS OF DESIGN)	48"
⊢ M _D	LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH 0-10 VOLT SLIDE DIMMER (SET TO MANUAL "ON", AUTO "OFF", 5 MIN. DELAY)	48"
P	POWER PACK INSTALLED ABOVE CEILING (HUBBELL * UVPP, BASIS OF DESIGN)	
D	Ø-IØ VOLT SLIDE DIMMER (INCLUDE POWER PACK IF LOAD EXCEEDS RATING OF DIMMER) (HUBBELL * DVSTV SERIES, BASIS OF DESIGN)	48"
S ₃	THREE-WAY LIGHT SWITCH	48"
S ₄	FOUR-WAY LIGHT SWITCH	48"
S _K	KEY OPERATED LIGHT SWITCH	48"
0	SINGLE RECEPTACLE OUTLET (TAMPER PROOF)	18"
+	DUPLEX RECEPTACLE OUTLET (TAMPER PROOF)	18"
Ð∪	DUPLEX RECEPTACLE OUTLET WITH TWO (2) USB PORTS (GENERAL NOTE "O")	18"
-	QUAD RECEPTACLE OUTLET (TAMPER PROOF)	18"
₽U	QUAD RECEPTACLE OUTLET. ONE NORMAL TAMPER PROOF OUTLET AND ONE TAMPER PROOF OUTLET WITH 2 USB PORTS. (GENERAL NOTE "O")	18" U.N.
-	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH (TAMPER PROOF) DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH	
⇒U	WITH TWO (2) USB PORTS. (GENERAL NOTE "O") QUAD RECEPTACLE OUTLET. ONE NORMAL TAMPER PROOF OUTLET AND	
•	ONE TAMPER PROOF OUTLET WITH 2 USB PORTS. INSTALL 6" ABOVE BACKSPLASH. (GENERAL NOTE "O")	
•	FLUSH FLOOR DUPLEX OUTLET	
(JUNCTION BOX W/COYERPLATE - ABOYE CEILING	
HŪ	JUNCTION BOX W/COYERPLATE - WALL MOUNTED	
/- D - \	I"C. BELOW SLAB TO ACCOMMODATE DATA CABLES	
Ю	SPECIAL OUTLET (AS NOTED)	
	PANELBOARD 480V	
	PANELBOARD 240V	
<u> </u>	DISCONNECT SWITCH - HORSEPOWER RATED	
(Ē)	MOTOR - FRACTIONAL HORSEPOWER	
- - - - - - - - - -	MOTOR - NUMERAL INDICATES HORSEPOWER	18"
	TELEPHONE OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM	18"
— ← 	JUNCTION BOX TO ACCOMMODATE MIC. STUB 1"C. INTO ACCESSIBLE PLENUM	18"
	CEILING MOUNTED WIRELESS ACCESS POINT	
	4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED	
	INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J")	
⊠◀	FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K")	
	FIRE ALARM SPEAKER (WALL MOUNTED)	
\sim	FIRE ALARM STROBE (CEILING MOUNTED)	
c⊠◀	CEILING MOUNTED FIRE ALARM SPEAKER / STROBE	
②	SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	
△ co	CARBON MONOXIDE DETECTOR - CEILING MOUNTED	
⊗ =-	SMOKE DETECTOR - DUCT MOUNTED	
1	HEAT DETECTOR	
WF	SPRINKLER FLOW SWITCH	
VS	SPRINKLER TAMPER SWITCH	
메	DOOR HOLD DEVICE (WALL MOUNTED)	
OH OH	DOOR HOLD DEVICE (FLOOR MOUNTED)	
PS	PRESSURE SWITCH	
S	INTERCOM SPEAKER	
⊢©	INTERCOM CALL BUTTON (JUNCTION BOX WITH 3/4"C. STUB UP)	48"
₩	INTERCOM ADMINISTRATION PHONE SET	18"
HS\alpha	GYM RATED WALL SPEAKER	
ES T	EMERGENCY CALL STATION WITH SPEAKER	48"
	SECURITY CAMERA	
	CONDUIT CONCEALED IN WALLS, ABOVE CEILING, OR EXPOSED WHERE NO CEILING	
/ ⁻ `\	CONDUIT CONCEALED IN SLAB, IN GROUND, OR UNDER FLOOR	
₩.₽.	WEATHER PROOF	
G	GROUND FAULT INTERRUPT	
U.N.O.	UNLESS NOTED OTHERWISE	
NF	NON FUSED	
SN	SOLID NEUTRAL	
	ı	

MATHIS CONSULTING ENGINEERS 244 O'DELL ROAD SUITE 6 GRIFFIN, GEORGIA 30224 TELEPHONE 770-584-6193 2023-073



HEARD **COUNTY FIRE** STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2024 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED

WITHOUT WRITTEN PERMISSION. Description Issued for Bid



 A Professional Corporation . for the Practice of Architecture www.gsstj.com

Tower Place : 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326404.522.8805

SHEET TITLE

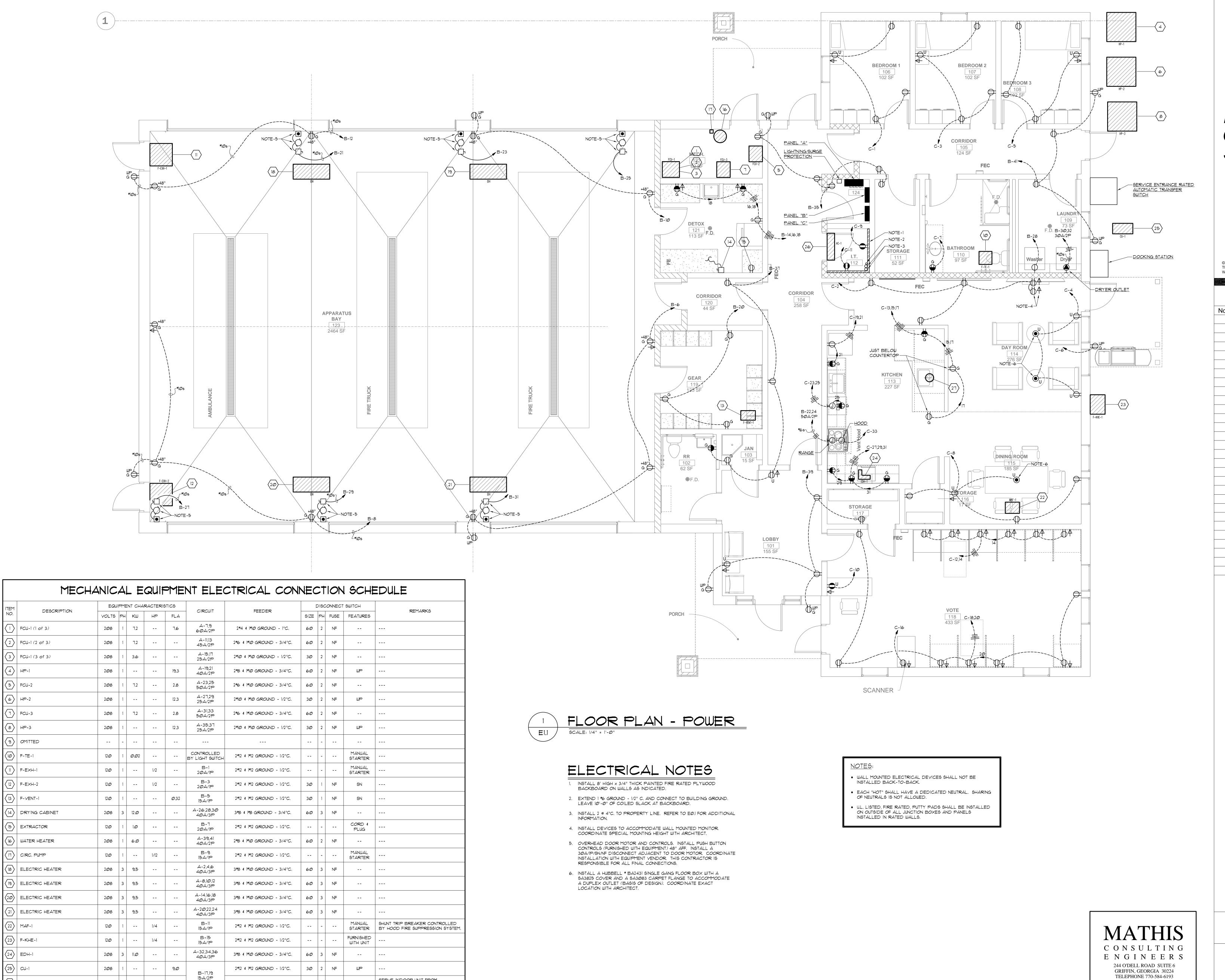
: 404.521.2118 (F)

: SITE PLAN - ELECTRICAL LEGEND, ELECTRICAL NOTES, AND DETAILS

PROJECT NO.

SHEET NO.

E0.



SERVE INDOOR UNIT FROM

FURNISHED FIELD COORDINATE SWITCH LOCATION WITH OWNER.

26 AC-1

27 DISPOSAL

208

-- 1.0

B-33 20A/IP

3#12 \$ 1#12 GROUND - 1/2"C.

2#12 & 1#12 GROUND - 1/2"C.



HEARD **COUNTY FIRE** STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2024 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

(NOT) RELEASED	FOR CONSTRUCTION
	REVISION
No.: Date:	Description
;03/06/24;	Issued for Bid
• •	
• •	
• •	
• •	
• •	
• •	
•	
• •	
• •	
•	
• •	
• •	
•	
• •	
• •	
• •	
• •	
•	
•	
•	
• •	
• •	
• •	
• •	
• •	
• •	
• •	
• •	
• •	
• •	
• •	
• •	
• •	



 A Professional Corporation for the Practice of Architecture

www.gsstj.com Tower Place

: 3340 Peachtree Road, N.E. : Suite 1800 Atlanta, Georgia 30326 : 404.522.8805 : 404.521.2118 (F)

2023-073

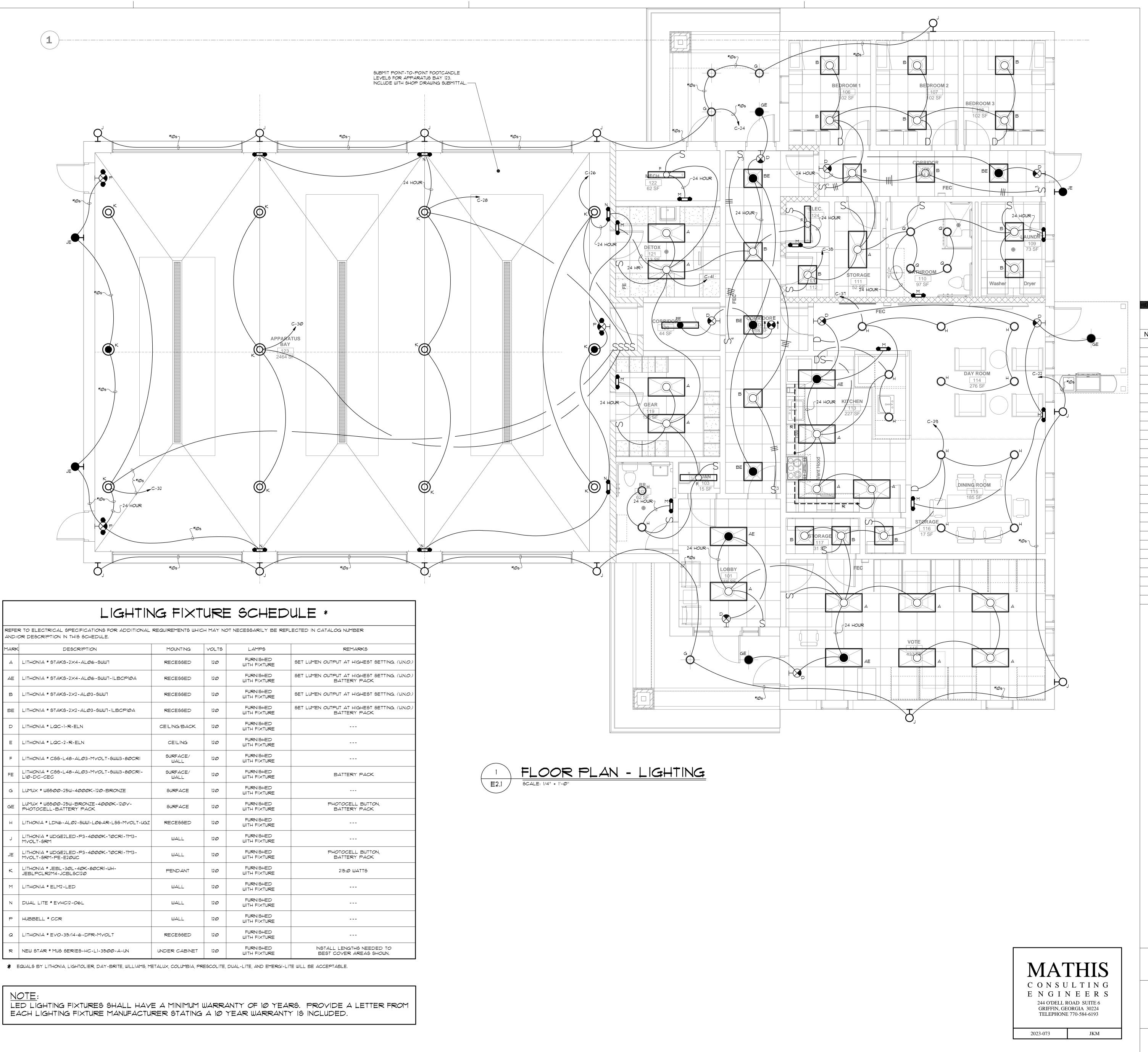
JKM

SHEET TITLE : FLOOR PLAN - POWER

SHEET NO.

PROJECT NO.

E1.



* THE EMS EMERGENCY SERVICES

HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2024 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED

WITI	HOUT WRITTE	N PERMISSION	
NOT	RELEAS	SED FOR	CONSTRUCTION
			REVISIONS
No.	Date	•	Description
	:03/06/24	: Is	ssued for Bid
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	
	•	•	



Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporationfor the Practice of Architecturewww.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

: : 22125

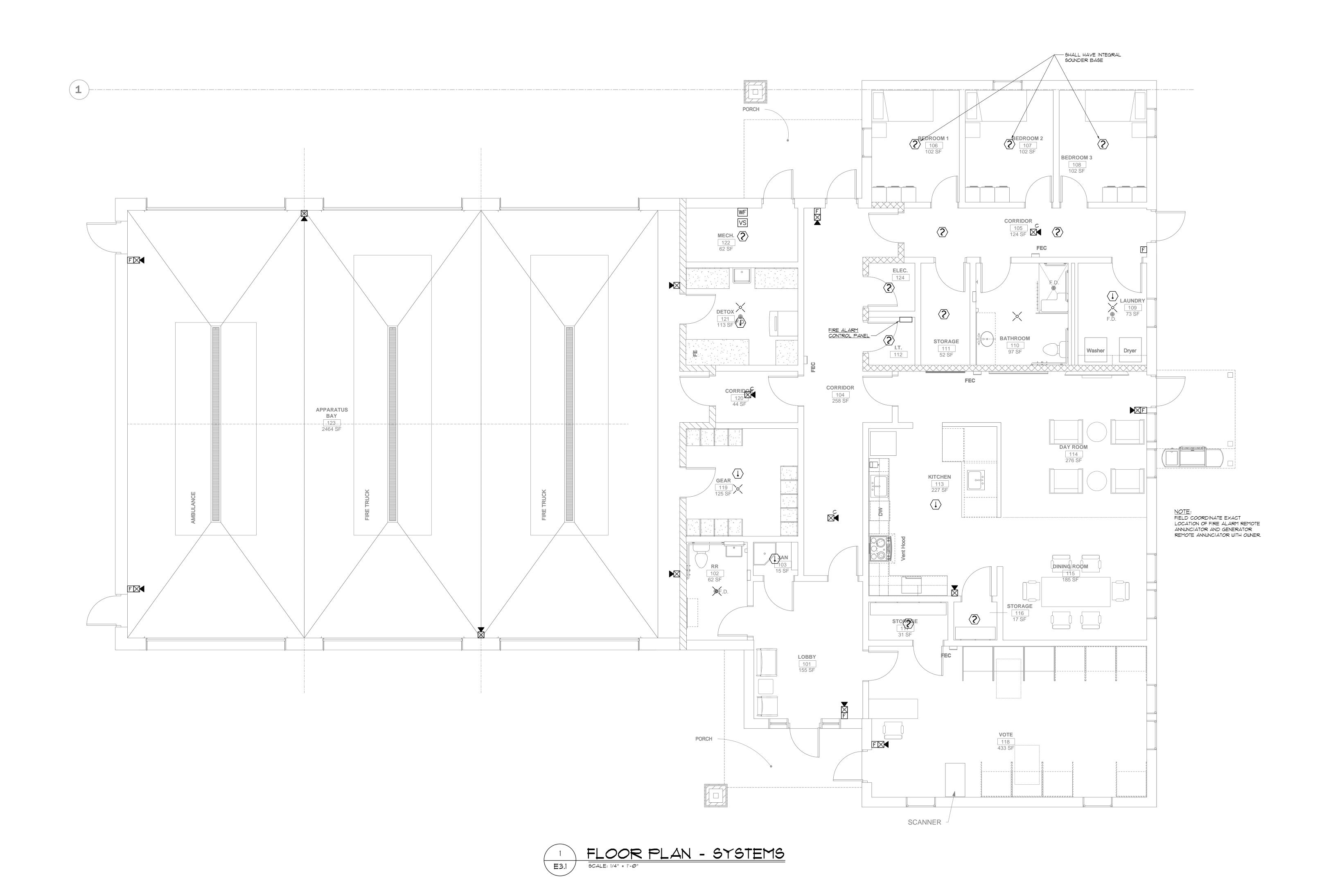
SHEET TITLE

: FLOOR PLAN - LIGHTING

SHEET NO.

PROJECT NO.

E2.1





365 Joe Stephens Road Franklin, GA 30217

© 2024 THESE DOCUMENTS REMAIN THE PROPERTY OF

THE ARCHITEC WITHOUT WRI		/ NOT BE USED OR REPRODUCEI IISSION.
NOT RELE	ASED	FOR CONSTRUCTIO
		BEWALA
		REVISIO
No. : Date	e :	Description
:03/06/	/24°	Issued for Bid
	<u></u>	locada loi Bia
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	



Gardner Smith

: Jarbeau . A Professional Corporation : for the Practice of Architecture

: www.gsstj.com

Tower Place3340 Peachtree Road, N.E.

: Suite 1800 Atlanta, Georgia 30326404.522.8805404.521.2118 (F)

PROJECT NO. 22125

SHEET TITLE : FLOOR PLAN - SYSTEMS

SHEET NO.

E3.1

MATHIS

 $C\ O\ N\ S\ U\ L\ T\ I\ N\ G$

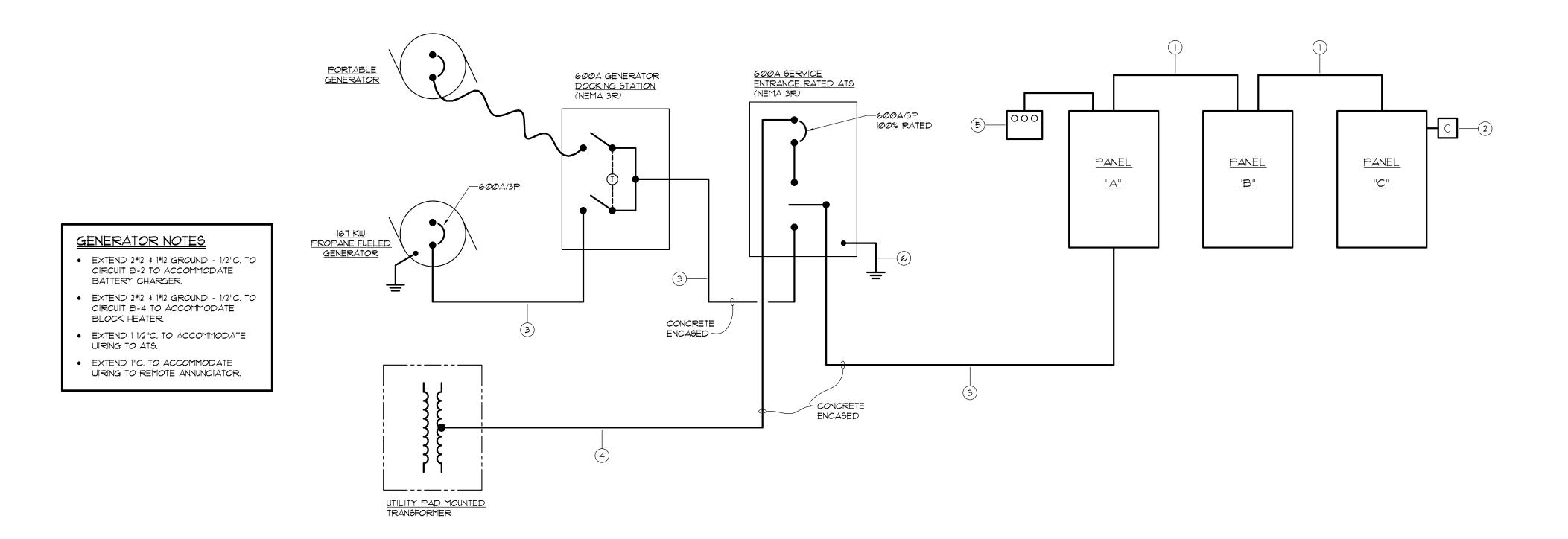
ENGINEERS

244 O'DELL ROAD SUITE 6 GRIFFIN, GEORGIA 30224 TELEPHONE 770-584-6193

JKM

2023-073

WIRING GUTTERS ARE NOT ALLOWED.





LEGEND

- 1 4 #300 MCM & 1 #4 GROUND 3"C.
- 4 POLE "EXTERIOR LIGHTING CONTACTOR" IN A NEMA I ENCLOSURE. CONTACTOR SHALL BE 30A RATED AND N/C. CONTACTOR SHALL HAVE HAND/OFF/AUTO SWITCH ON FRONT. CONTACTOR SHALL BE CONTROLLED BY PHOTOCELL.
- 3 2 SETS OF 4 #300 MCM 4 | #| GROUND 3"C. EACH SET
- 2 SETS OF 4 *300 MCM 3"C. EACH SET

 CURRENT TECHNOLOGY * TG3-100-208-3Y-MN-T-MI
 LIGHTNING/SURGE PROTECTION (BASIS OF DESIGN)
- 6 1 *3/0 GROUND 1"C. TO GROUND RODS, BUILDING STEEL, COLD WATER PIPE, AND STRUCTURAL REBAR.

	PA	<u> </u>	۷EI	_E	30	つ ム i	R [7		S	C	H	ΕI		<u> </u>	_E	
VC	DLTAGE: 120/208V, 3 PH, 4 W		MAINS:	: 60	Θ Α	M.L.O.			~	10U1	NTIN	lG: SI	JRF/	/CE				F	REMARKS:	
BU	S SIZE: 600A	ŀ	TOT 189.	AL L 80			ERSIFIED	D LOA	AD) F	AUL	.T D	PUTY:	42,0	000) AIC					
NO	SERVES NOT	re -		_OAD		A)	+ -	_	PHASE		RKR TEIF	MISC			(KV)		1.76	NOTE	SERVES	NO
1	LIGHTNING/SURGE	+	LIG KOLI	11111	1,0	HIG 1 1150			 				9.5	4/0	1	. 1001 1	- 10		ELECTRIC HEATER	2
3	LIGHTNING/SURGE	\dagger							$\downarrow\downarrow\downarrow$	7	///								ELECTRIC HEATER	4
5	LIGHTNING/SURGE	T						\mathcal{H}	₩				///						ELECTRIC HEATER	6
_	FCU-1 (1 of 3)	\dagger		1.6		7.2	60	2	₩	3	40		9,5	-					ELECTRIC HEATER	8
	FCU-1 (1 of 3)	\dagger							$\downarrow\downarrow\downarrow$										ELECTRIC HEATER	10
	FCU-1 (2 of 3)					7.2	45	2	₩	1			///						ELECTRIC HEATER	12
	FCU-1 (2 of 3)								Щ	3	40		9,5						ELECTRIC HEATER	14
	FCU-1 (3 of 3)					3.6	25	2	╁╁┼										ELECTRIC HEATER	16
	FCU-1 (3 of 3)								┦┦┩										ELECTRIC HEATER	18
19	HP-1				4.0		40	2	↓ ↓↓	3	40		9.5						ELECTRIC HEATER	20
21	HP-1								╁╁┼										ELECTRIC HEATER	22
23	FCU-2			0.6		7.2	50	2	┼┼┢										ELECTRIC HEATER	24
	FCU-2								↓ ↓↓	3	40		12.0						DRYING CABINET	26
27	HP-2				2.6		25	2	╁╅┼										DRYING CABINET	28
29	HP-2								┼┼┢										DRYING CABINET	30
31	FCU-3			0.6		7.2	50	2	↓ ↓↓	3	40		11.0						EDH-1	32
	FCU-3								╁╅┼										EDH-1	34
35	HP-3				2.6		25	2	┼┼┢										EDH-1	36
37	HP-3								↓ ↓↓	3	300		14.2	2.1	19.6	35.5	7.0		PANEL "B" & "C"	38
	WATER HEATER					6.0	40	2	╁╅┼					///					PANEL "B" & "C"	40
	WATER HEATER	T							IJ ♦					//					PANEL "B" & "C"	42
	LOAD SUMMARY			1	1	LIGHTIN RECEF MOTOR	YACL	.E:	35	5.5	KV/ KV/ KV/	7	A/C HE/ MIS	ATIN	lG:	113	.3 3.6 1.0	Kv,	4	•
NO ⁻	ES:																			

BUS				70	DAI	4.L.O				1	MOU	NTIN	G: S	URF/	CE				R	EMARKS:	
	SIZE: 400A		TOT4	L L	-		(DIVE	RSIFIEI	D LOA	(D)	FAUL	_T D	JTY:	42,0	000	AIC			FE	ED THRU LUGS	
40	SERVES	NOTE	_	OAD MTR	_	нта	MISC .		———————————————————————————————————————	PHAS A B (_	RKR TRIP	MISC		.0AD A/C			LŤG	NOTE	SERVES	NC
1 E	:-E×H-1			1.2				20	1 -	4	Hī	20					1.0			BATTERY CHARGER	2
3 F	-E×H-2			1.2				20	1	╁	1	20		1.2						BLOCK HEATER	4
5 F	-∨ENT-1			Ø.3				15	1	₩	1	20					0.8			BAY OUTLETS	6
ı E	EXTRACTOR			1.0				20	1	♦ ├	1	20					0.8			BAY OUTLETS	8
9 0	IRC. PUMP			Ø.1				15	1	╁┢╌	Hī	20					0.6			BAY OUTLETS	10
11	1AF-1	2		Ø.7				15	1	₩	1	20					0.6			BAY OUTLETS	12
13 -				-						♦ ├	Hī	20					1.0			DETOX 121	14
15 F	-KHE-1			Ø.7				15	1	╁┢╌	Hī	20					1.0			DETOX 121	16
17 C	CU-1 / AC-1				2.1			15	2	₩	1	20					1.0			DETOX 121	18
19 C	CU-1 / AC-1								//-	┿┼	Hī	20					0.6			GEAR 119	20
21 E	BAY DOOR			1.9				20	ī	╁╈╌	2	50		8.0					2	RANGE	22
23 E	BAY DOOR			1.9				20	1	₩	1									RANGE	24
25 E	BAY DOOR			1.9				20	1	┿┼	H -			-							26
27 E	BAY DOOR			1.9				20	1	╁╈╌	Hī	20				1.0				WASHER	28
29 E	BAY DOOR			1.9				20	1	₩	2	3Ø		5.0						DRYER	3@
31 E	BAY DOOR			1.9				2Ø	1	┿┼	-7									DRYER	32
33 D	DISPOSAL	1		1.2				2Ø	1-	₩	H-									SPACE	3∠
35 G	ENERAL PURPOSE		1.2					2Ø	1	₩	-									SPACE	36
37 G	ENERAL PURPOSE		1.0					2Ø	1	┿┼╴	 -									SPACE	38
39 G	ENERAL PURPOSE		1.0					2Ø	1	╁╋╌	 									SPACE	40
	ENERAL PURPOSE		0.8					20	1-	₩	-									SPACE	42

	DLTAGE: 120/208V, 3 PH, 4	₩	M∠	INS:	400	0A N	1.L.O.					MO	UNT	ING: S	SURF	ACE				R	EMARKS:	
BII			-	TOT 4	AL LC	DAD	:	(DIVE	RSIFIEI	D LO	AD)	ΕΛI	ПΤ	DUTY	· 42	000) AIC					
				31.	90 t	<\A										,000						
NO	SERVES	NOTE			OAD						PHAS		BRKI	_) (KV/			NOTE	SERVES	N
,	REDDOOM #				MIR	A/C	HTG	MISC		P	<u> </u>		_	MIS	CHTC	# A/C	MIR		LTG		D 4× DOOM 114	
	BEDROOM #1	2		0.8					20	╣	ΥŢ	T	1 2			+		0.8			DAY ROOM 114	
_	BEDROOM #2 BEDROOM #3	2		0.8					20	\dashv	\prod	Γ	1 2					0.8			DAY ROOM 114	
-				0.8					20	╣	П	T	1 2	_		+		1.0			DAY ROOM 114	4
	BATHROOM 110 IT ROOM 112			1.5					20	╣	ΥŢ	T	1 2	_		+		1.0			DAY ROOM 114	1
-	IT ROOM 112			1.0					20	\dashv	\prod	Γ	1 2					1.0			VOTE 118	15
				1.Ø 1.Ø					20 20	\dashv	\prod		1 2	_		-		0.6			VOTE 118	1
	KITCHEN 113			1.0					20	\dashv	Π	\coprod	1 2	_		+		1.0			VOTE 118	1,
	KITCHEN 113			1.0					20	+	\coprod	\prod	1 2	_				0.8			VOTE 118	1
	KITCHEN 113	(1)		1.0					20	+	П	\coprod	1 2	_				0.6			VOTE 118	2
	KITCHEN 113			1.0					20	+	П	\mathbf{L}	1 2	_					<u></u>	(3)	EXTERIOR LIGHTING	2
	KITCHEN 113	(1)		1.0					20		\coprod	\prod	1 2	_						$\stackrel{\sim}{\sim}$	EXTERIOR LIGHTING	2
	KITCHEN 113			1.0					20		П	\coprod	1 2						Ø.3 Ø.7	9	BAY LIGHTING	2
-	KITCHEN 113			1.0					20		Ц	┸	1 2	_		+			Ø.T		BAY LIGHTING	2
	KITCHEN 113			1.0					20	\dashv	Ш	╽	1 2	_		+			Ø.1 Ø.7		BAY LIGHTING	3
				1.0					20	$\dot{\top}$	\coprod	\coprod	1 2	_					Ø.T		BAY LIGHTING	3
	HOOD				0.8				20	$\dot{\dashv}$	Ц	┸	1 2	_					· ·		SPARE	3
-	LIGHTING		0.9						20	Ť	Щ	╽	1 2	_							SPARE	3
	LIGHTING		0.6						20	Ť	⇊	\coprod	+	-							SPACE	3
	LIGHTING		0.8						20	\dashv	Ц	╨	- -	_							SPACE	4
41	LIGHTING		0.5						20	1	Ш	╽	- -	_							SPACE	

C O N S U L T I N G
E N G I N E E R S
244 O'DELL ROAD SUITE 6
GRIFFIN, GEORGIA 30224
TELEPHONE 770-584-6193

JKM

* FIRE * EMS SERVICES

HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

© 2024 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

RELEASED FOR CONSTRUCTION

No. Date Description

O3/06/24 Issued for Bid



Gardner
Spencer
Smith
Tench &

A Professional Corporationfor the Practice of Architecturewww.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

· : 22125

SHEET TITLE

PROJECT NO.

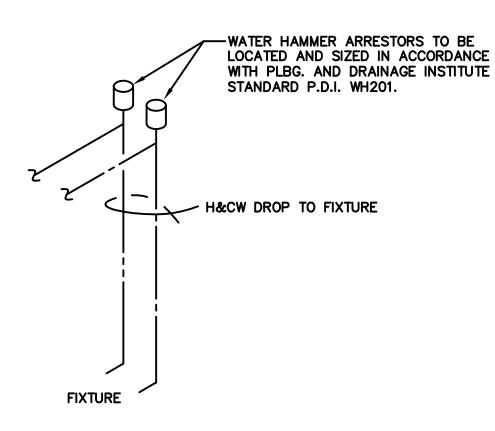
PANELBOARD
SCHEDULES AND
ONE-LINE DIAGRAM

SHEET NO.

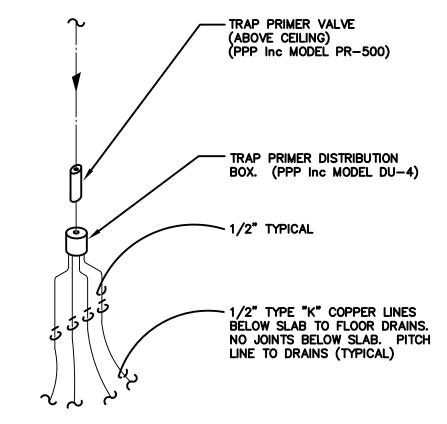
E4.1

	PLUMBI	NG FI	XTUF	RE SO	CHEDULE	
		CON	INECTI	ONS		
MARK	DESCRIPTION	CW	HW	S/W	RIM HEIGHT	REMARKS
HWC	WATER CLOSET-HANDICAPPED TANK TYPE	1/2"		4"	18"	19" TO TOP OF SEAT
HLAV	LAVATORY-HANDICAPPED WALL HUNG	1/2"	1/2"	1-1/4"	34"	
HCTLAV	COUNTERTOP LAVATORY HANDICAPPED	1/2"	1/2"		COORDINATE INSTALLATION W/ ARCH. COUNTER DETAIL	
SK-1	STAINLESS STEEL- COUNTERTOP SINK	1/2"	1/2"	1-1/2"	COORDINATE INSTALLATION W/ ARCH. COUNTER DETAIL	
MS	MOP RECEPTOR— FLOOR MOUNTED	1/2"	1/2"	3"	8" MINIMUM	FAUCET 48" AFF
HSH	HANDICAPPED SHOWER VALVE ASSEMBLY	1/2"	1/2"	3"	MOUNT SHOWER VALVE 40"AFF SHOWER HEAD MEN'S 6'-6"AFF SHOWER HEAD WOMEN'S 6'-0"AFF	

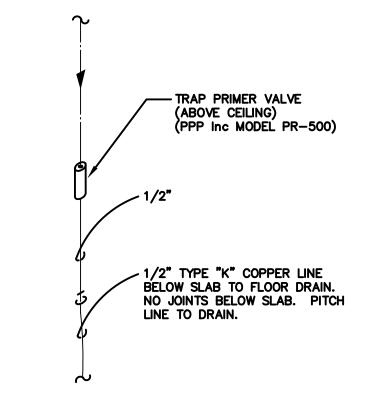
NOTE: COORDINATE WITH ARCHITECT WHICH SINKS ARE TO BE ADA. PROVIDE ADA OFFSET DRAINS AND TRAP GUARDS.



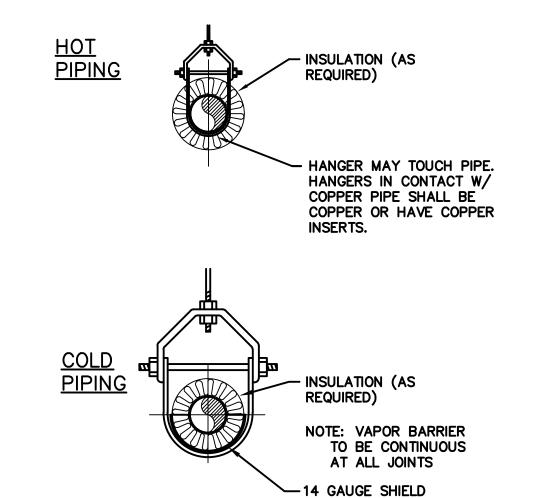
TYPICAL WATER PIPING DETAIL
FOR SINGLE FIXTURE
NO SCALE



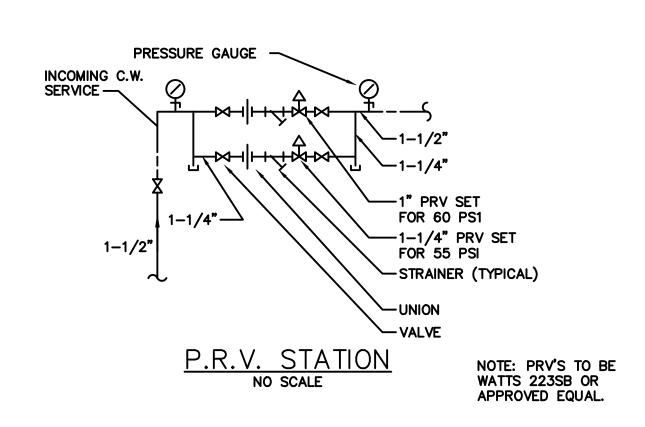
TRAP PRIMER PIPING DIAGRAM
NO SCALE

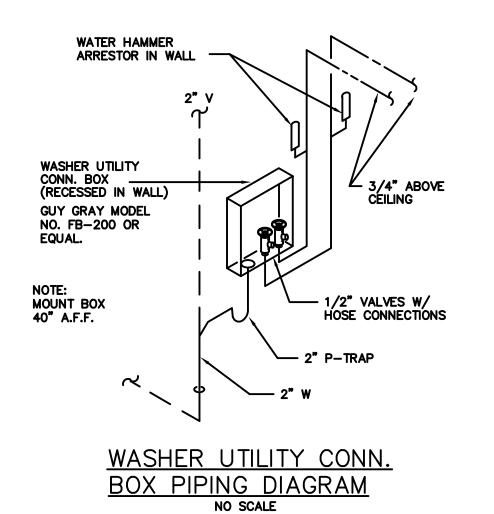


TRAP PRIMER PIPING DIAGRAM
NO SCALE



INSULATED PIPING PROTECTION DETAILS
NO SCALE





SYMBOLS & ABBREVIATIONS

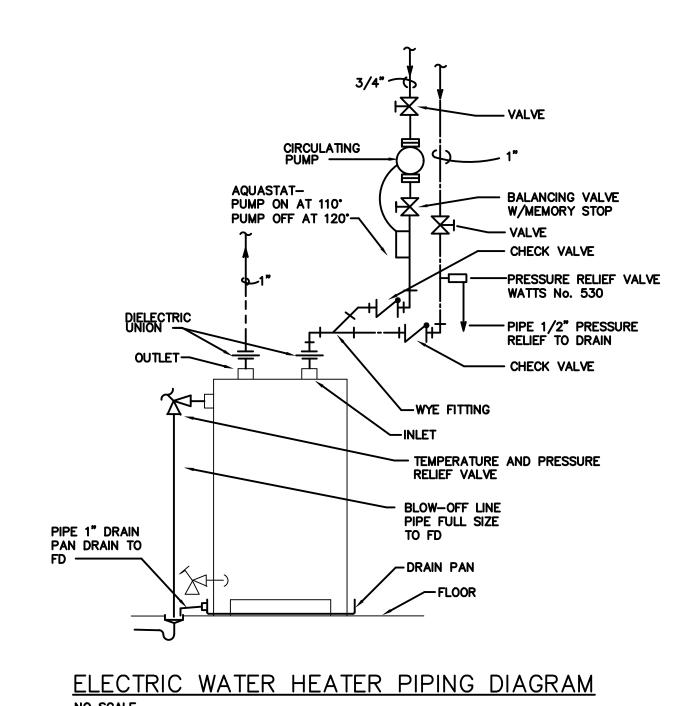
RAIN WATER LEADER (DS)
OR STORM
SOIL OR WASTE ABOVE FLOOR
OR CEILIING (S OR W)
SOIL OR WASTE BELOW FLOOR
(S OR W)
VENT (V)
HOT WATER (HW)
COLD WATER (CW)
CIRCULATING HOT WATER (CHW)
GAS (G)

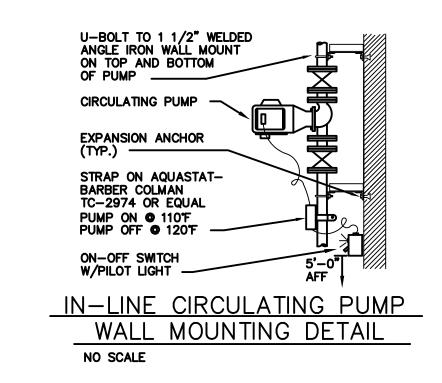
ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ACCESS PANEL ACID RESISTANT VENT ACID RESISTANT WASTE BALL VALVE CHK.V. CHECK VALVE CAST IRON **CEILING** CLEANOUT COUNTER TOP FLOOR CLEANOUT FLOOR DRAIN FLOOR SINK DECK DRAIN HANDICAPPED DRINKING FOUNTAIN ELECTRIC DRINKING FOUNTAIN EQUIPMENT ROOM DRAIN FRESH AIR FLOOR DRAIN GALVANIZED IRON GATE VALVE GLOBE VALVE FUNNEL FLOOR DRAIN

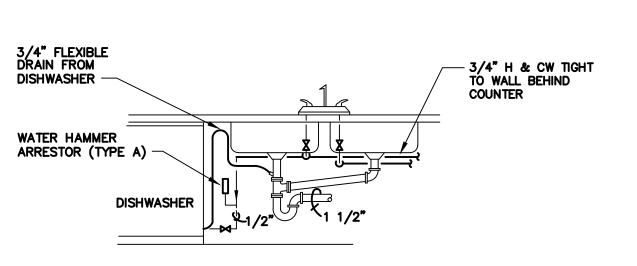
FLOW CONTROL VALVE

AREA DRAIN

HUB DRAIN HOT WATER HEATER HANDICAPPED URINAL INV LAVATORY MANHOLE MEMORY STOP HANDICAPPED LAVATORY PRESSURE REDUCING VALVE ROOF DRAIN RELIEF VALVE SHOWER DRAIN SHOWER HEAD SERVICE SINK TEMPERATURE & PRESSURE UR URINAL VTR VENT THRU ROOF WATER CLOSET HANDICAPPED WATER CLOSET WALL HYDRANT (WATER) YARD HYDRANT (WATER) WATER HAMMER ARRESTOR YARD CLEANOUT







DISHWASHER PIPING DETAIL NO SCALE

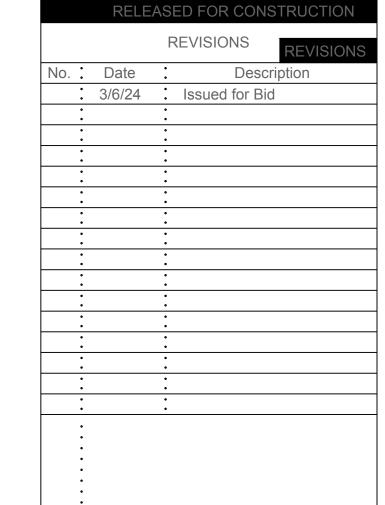


HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.







Gardner
Spencer
Smith
Tench &

A Professional Corporation for the Practice of Architecture

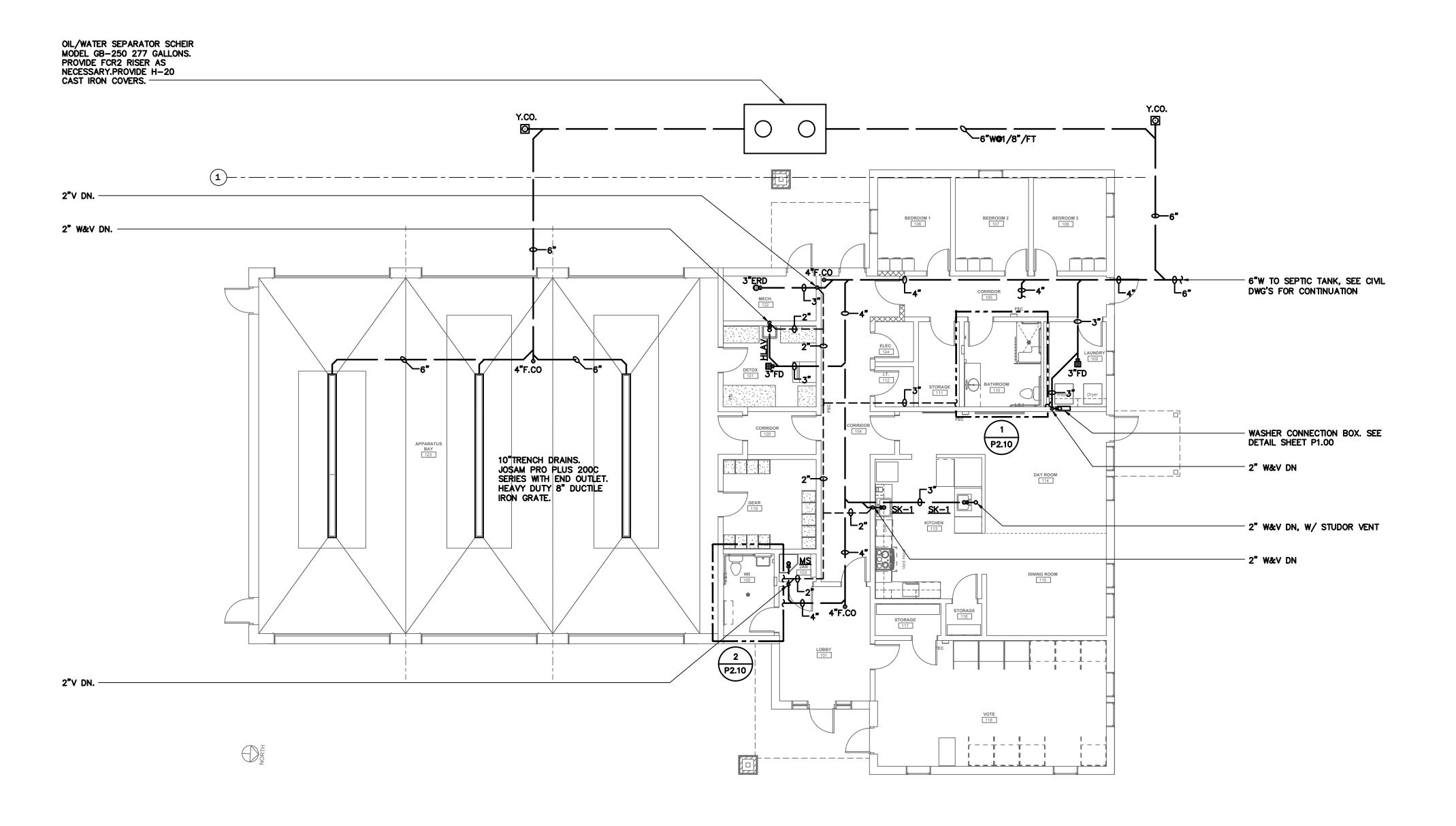
Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

22125

PLUMBING LEGEND, SCHEDULE & DETAILS

P1.00

ROJECT NO.



PLUMBING FIRST FLOOR PLAN - S,W&V PIPING
P1.10 SCALE: 1/8" = 1'-0"



HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE	ASI	ED FOR CON	ISTRUCTIO
		F	REVISIONS	REVISIO
No.	Date	•	Des	cription
•	3/6/24	:	Issued for B	id
•		•		
•		•		
•		:		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
_				





Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporationfor the Practice of Architecture

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

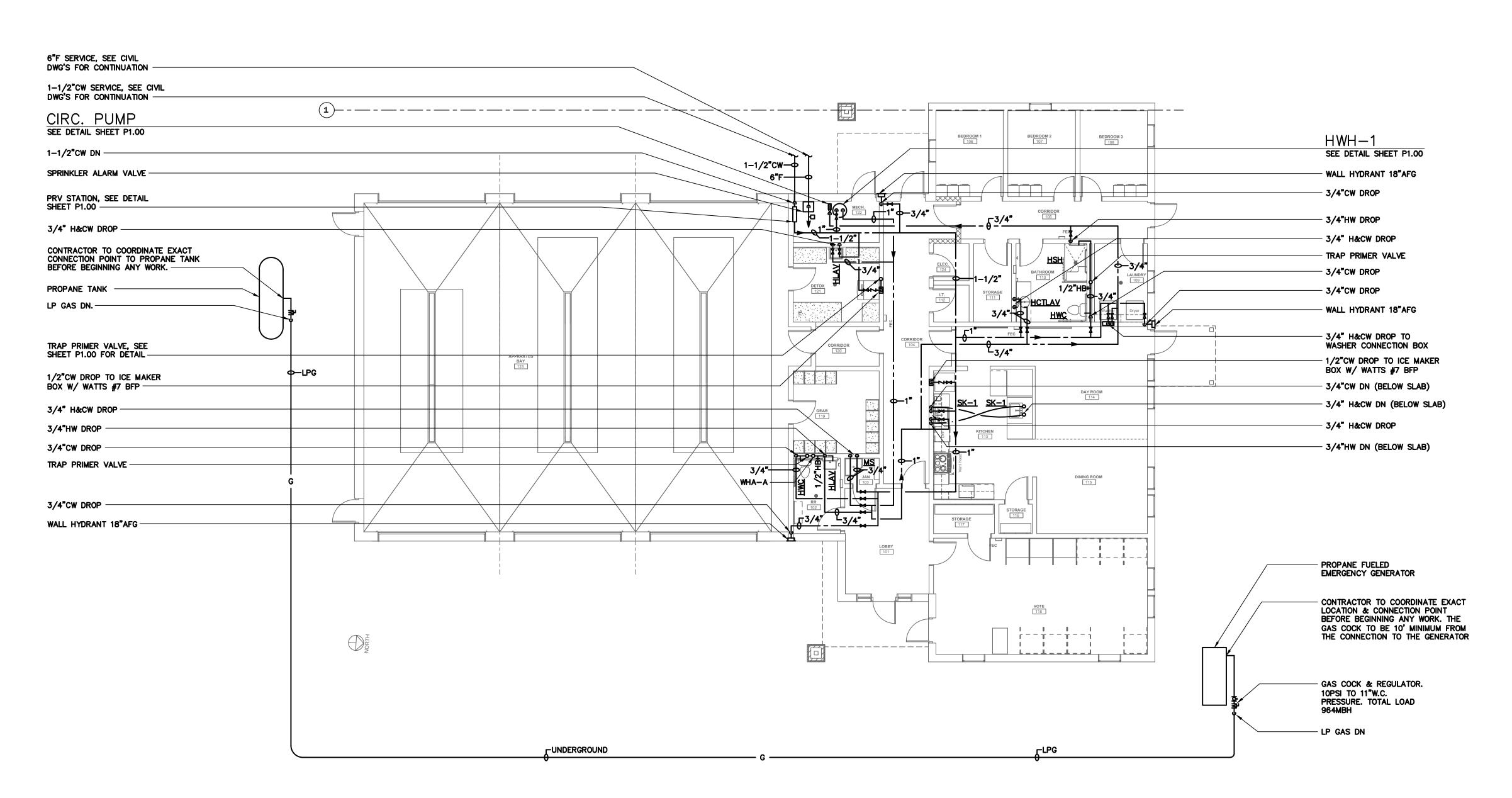
PROJECT NO.

SHEET TITLE

22125

PLUMBING FLOOR PLAN - S,W&V

P1.10



1 PLUMBING FIRST FLOOR PLAN — H&CW PIPING
P1.11 SCALE: 1/8" = 1'-0"



HEARD COUNTY FIRE STATION #5

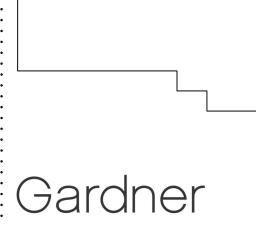
365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELEASED FOR CONSTRUCTION				
		R	REVISIONS	REVISIONS	
No.	Date	•	Descr	iption	
•	3/6/24	•	Issued for Bid		
•		•			
•		•			
:		•			
•		•			
•		•			
•		•			
•		•			
:		•			
•		•			
•		•			
•		•			
•		•			
•		•			
		•			





Gardner
Spencer
Smith
Tench

A Professional Corporationfor the Practice of Architecture

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

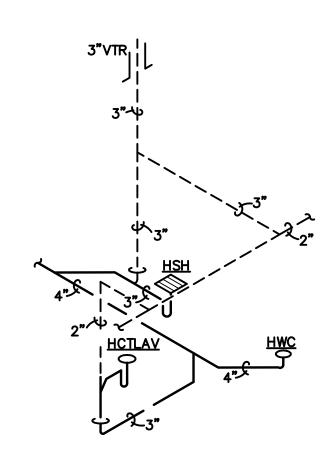
22125

PLUMBING FLOOR PLAN - H&CW

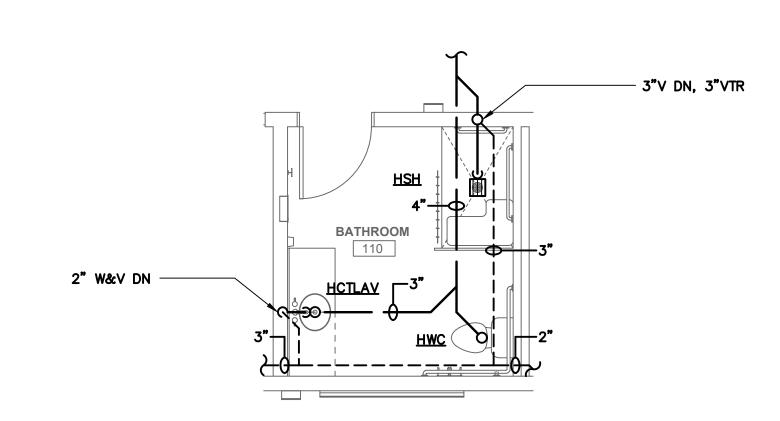
P1.11

PROJECT NO.

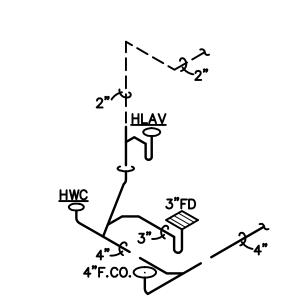
SHEET TITLE



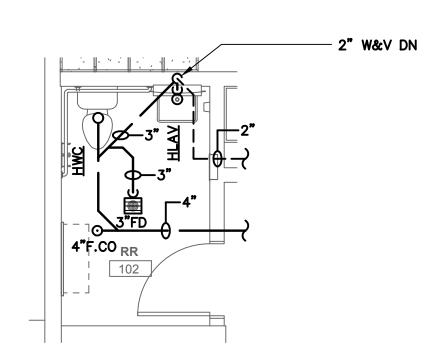
S,W&V RISER DIAGRAM N.T.S.



PLUMBING LARGE SCALE PLAN
SCALE: 1/4" = 1'-0"



S,W&V RISER DIAGRAM N.T.S.



PLUMBING LARGE SCALE PLAN
SCALE: 1/4" = 1'-0"



365 Joe Stephens Road Franklin, GA 30217

Organization Name

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

	RELE	ASI	ED FOR CONS	TRUCTION
		R	REVISIONS	REVISIONS
No.	Date	•	Descr	iption
•	3/6/24	:	Issued for Bid	
•		:		
•		•		
•		•		
•		•		
•		•		
•		•		
•		•		
:		:		
:		•		
•		•		
•		•		
•		•		
•		•		
•		•		



	\neg

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporationfor the Practice of Architecture

Tower Place Building,
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (f)

22125

PLUMBING LARGE SCALE PLANS

PROJECT NO.

SHEET TITLE

P2.10