UNION COUNTY FIRE STATION

NUMBER

G0.00 TITLE SHEET

LS.01 LIFE SAFETY PLAN

Union County Fire Station

PROJECT TEAM

OWNER **UNION COUNTY** COMMISSIONER'S OFFICE COURTHOUSE STREET BLAIRSVILLE, GEORGIA 30512 CONTACT: MR. LARRY GARRETT

ARCHITECT GARDNER, SPENCER, SMITH, TENCH, & JARBEAU TOWER PLACE 3340 PEACHTREE ROAD, N.E. SUITE 1800

EMAIL: VCMANAGER@UNIONCON.COM

ATLANTA, GEORGIA 30326 CONTACT: RANDY SMITH EMAIL: rsmith@gsstj.com PHONE: (770) 315-1229

ELECTRICAL ENGINEER PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD PEACHTREE CORNERS, GA 30092 CONTACT: BRIAN M. ARMENTA EMAIL: BRIAN@PROFICIENTENGINEERING.COM PHONE: 404.394.1147

PLUMBING ENGINEER PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD PEACHTREE CORNERS, GA 30092 CONTACT: JENNIFER DUCHAC EMAIL: JEN@PROFICIENTENGINEERING.COM PHONE: 404.394.1147

MECHANICAL ENGINEER PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD PEACHTREE CORNERS, GA 30092

CONTACT: JENNIFER DUCHAC EMAIL: JEN@PROFICIENTENGINEERING.COM PHONE: 404.394.1147

STRUCTURAL ENGINEER GOODMAN GIANNAVOLA HINES ENGINEERS 311 14TH STREET ATLANTA, GA 30318

EMAIL: CHRIS@GGHENGINEERS.COM

CONTACT: CHRIS HINES

PHONE: 404.969.6895

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. 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
- 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.
- 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.
- PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD AS SHOWN IN THE DRAWINGS. OR IF NOT SHOWN, MAXIMUM ALLOWED PER MANUFACTURERS SPECIFICATION.
- 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
- GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION (TOILETS, SHOWERS, JANITORS CLOSET, ETC.) SHALL BE MOISTURE RESISTANT TYPE. ALL GYPSUM WALL BOARD MATERIAL IN FIRE RATED ASSEMBLIES SHALL BE FIRE RESISTIVE UL CLASSIFIED MATERIAL APPLIED IN STRICT COMPLIANCE TO THE APPLICABLE FIRE TEST DESIGN WITH JOINTS ON 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.

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.

SHALL BE FRAMED WITH RUNNER CHANNELS AND TIGHTLY SEALED. SUCH PENETRATIONS SHALL BE TIGHTLY PACKED WITH MINERAL FIBER SAFING INSULATION.

13. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, ETC. PER MFG. RECOMMENDATION.

AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION.

- 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 FOLLOWED.
- 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.
- 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.

PROJECT NOTES/ APPLICABLE CODES

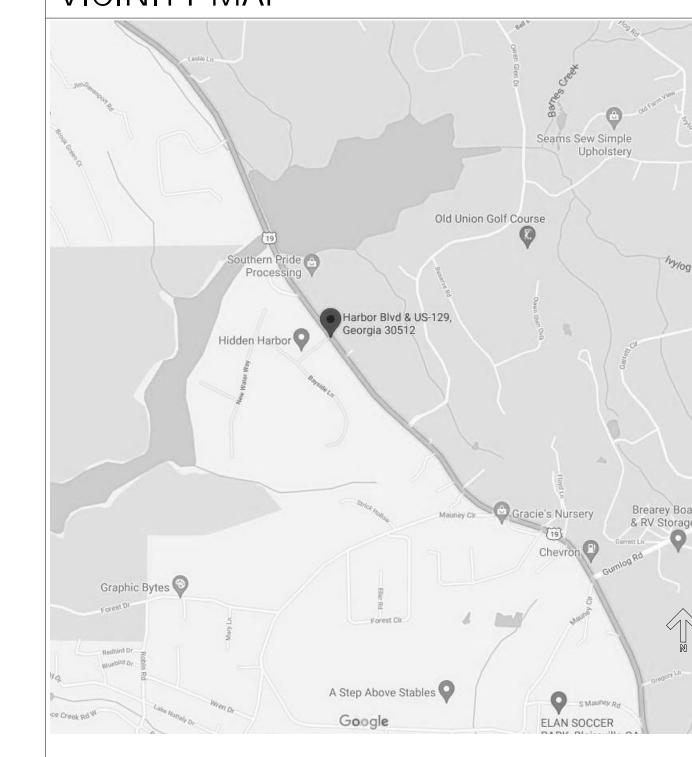
INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION WITH GA AMENDMENTS. NATIONAL ELECTRIC CODE (NEC): 2020 EDITION INTERNATIONAL FUEL GAS CODE (IFGC): 2018 EDITION WITH GA AMENDMENT INTERNATIONAL MECHANICAL CODE (IMC): 2018 EDITION WITH GA AMENDMENTS INTERNATIONAL PLUMBING CODE (IPC): 2018 EDITION WITH GA AMENDMENTS INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2015 EDITION WITH GA SUPPLEMENTS AND AMENDMENTS

INTERNATIONAL FIRE CODE (IFC): 2018 EDITION 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 EDITION CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE STANDARDS IN GA

PROJECT INFORMATION

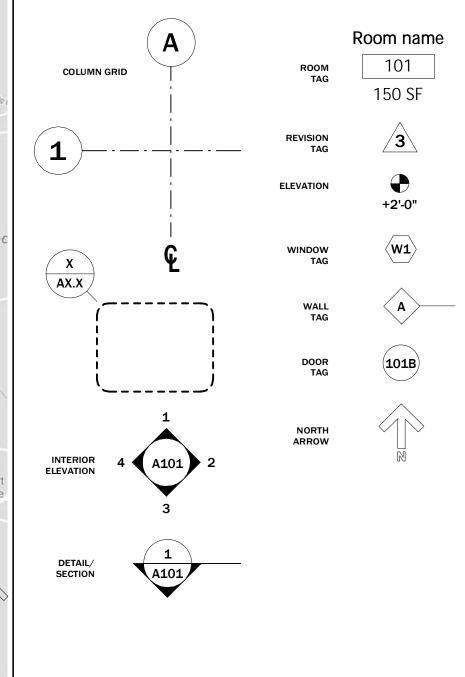
UNION COUNTY FIRE STATION CONSTRUCTION DESCRIPTION: PROJECT HARBOR BOULEVARD AT MURPHY HIGHWAY LOCATION: BLAIRSVILLE, GEORGIA OCCUPANCY CLASSIFICATION: STORAGE (GROUP S-2) **RESIDENTIAL (GROUP R-3)** BUSINESS (GROUP B) ASSEMBLY (GROUP A-3) OCCUPANCY LOAD: CONSTRUCTION VB PER IBC 2018, V(000) PER NFPA 2018 TYPE: NUMBER OF STORIES: **SPRINKLER** SYSTEM: SQUARE FIRST FLOOR:

VICINITY MAP



LEGEND

FOOTAGE:



| | | | | CTDLICTLIDAL EDAME | II D | 0 | NI/A | |
|-------|-------------------------------------|----------|------------|-------------------------------------|-------------------------|---------------------------------------|------|----------|
| G1 | COVER SHEET | | 06/06/2022 | STRUCTURAL FRAME | II-B | U | N/A | |
| C 1 | EXISTING SITE CONDITIONS | | 06/06/2022 | BEARING WALLS, EXTERIOR | II-B | 0 | N/A | |
| C2 | SITE LAYOUT PLAN | | 06/06/2022 | · · | | | | - |
| C3 | GRADING AND UTILITY PLAN | | 06/06/2022 | BEARING WALLS, INTERIOR | II-B | 0 | N/A | |
| EC1 | ESPC NOTES I | | 06/06/2022 | NONBEARING EXTERIOR WALLS | II-B | 0 | N/A | |
| EC2 | ESPC NOTES II | | 06/06/2022 | NONDEANING EXTENSION WALLS | ט-ווי | 0 | IVA | 1 |
| EC3 | INITIAL ESPC PLAN | | 06/06/2022 | NONBEARING INTERIOR PARTITIONS | II-B | 0 | N/A | |
| EC4 | INTERMEDIATE ESPC PLAN | | 06/06/2022 | ELOOP CONCEDUCTION | II D | • | N//A | 1 |
| EC5 | FINAL ESPC PLAN | | 06/06/2022 | FLOOR CONSTRUCTION | II-B | 0 | N/A | © 20 |
| D1 | EROSION CONTROL AND GENERAL DETAILS | | 06/06/2022 | ROOF CONSTRUCTION | II-B | 0 | N/A | THE |
| | | | | | IDO TABLE | | | |
| | ARCHITECTURAL | | | | IBC TABLE | E 506.2 COMPLIANCE | | |
| | | | | BUILDING AREA PER IBC 2018 TABLE 50 | 06.2 | | | |
| A0.30 | ARCHITECTURAL SITE PLAN | 07.18.22 | 06/27/22 | DOLDING AREA PER LA TRADE OF | | | | <u> </u> |
| A0.50 | PARTITION DETAILS | 08.30.22 | 06/27/22 | FLOOR 1: MIXED BUSINESS (B) ASSEM | MBLV (A-3) STORAGE (GRO | OLIP S.2) AND RESIDENTIAL (GROLIP R.3 | 8) | No. |

STRUCTURAL ELEMENT

STRUCTURAL FRAME

ISSUE DATE

06/27/22

06/27/22

08.30.22

08.30.22

Harbor Boulevard at Murphy Highway Blairsville, Georgia

REMAIN THE PROPERTY OF NOT BE USED OR REPRODUCED

Description

Issued

Revision 1

Revision 2

| EC3 | INITIAL ESPC PLAN | 06/06/2022 | NONBEARING INTERIOR PARTITIONS | i II-B | 0 | N/A | | |
|----------------|---|--------------------------|------------------------------------|--------------------------|-------------------------------------|-------------|--|------------|
| EC4 | INTERMEDIATE ESPC PLAN | 06/06/2022 | FLOOR CONSTRUCTION | II-B | 0 | N/A | | |
| EC5 | FINAL ESPC PLAN | 06/06/2022 | FLOOR CONSTRUCTION | II-D | 0 | N/A | © 2022 THESE DOCUMEN | NTS RE |
| D1 | EROSION CONTROL AND GENERAL DETAILS | 06/06/2022 | ROOF CONSTRUCTION | II-B | 0 | N/A | THE ARCHITECT AND MAY WITHOUT WRITTEN PERM | Y NO |
| | | | | | | | | |
| | ARCHITECTURAL | | | IBC TAB | SLE 506.2 COMPLIANCE | | | |
| 40.20 | | 00/07/00 | BUILDING AREA PER IBC 2018 TABLE | 506.2 | | | F | Revis |
| A0.30 A0.50 | ARCHITECTURAL SITE PLAN 07.18.22 PARTITION DETAILS 08.30.22 | 06/27/22 06/27/22 | | | | | No. Date | |
| A0.30 | FLOOR PLAN 07.18.22 | 06/27/22 | FLOOR 1: MIXED BUSINESS (B) , ASSE | EMBLY (A-3), STORAGE (G | GROUP S-2) AND RESIDENTIAL (GROUP R | -3) | 06.27.22 | |
| A1.15 | ATTIC PLAN 07.18.22 | 06/27/22 | OCCUPANCY: BUSINESS (B) | | | | 1 07.18.22 | |
| A1.20 | REFLECTED CEILING PLAN | 06/27/22 | | | | | 2 08.30.22 | |
| A1.30 | ROOF PLAN 07.18.22 | 06/27/22 | TABULATED ALLOWABLE | E AREA (SQ. FT.) | 23 | 3,000 | | |
| A1.40 | ENLARGED PLANS | 06/27/22 | SPRINKLER INCREAS | SE BY 506.3 | 92 | 2,000 | | |
| A2.00 | EXTERIOR ELEVATIONS | 06/27/22 | | | | | | |
| A2.01 | EXTERIOR ELEVATIONS | 06/27/22 | ACTUAL AREA OF OC | CCUPANCY: | 1 | 630 | | |
| A2.10 A2.20 | BUILDING SECTIONS WALL SECTIONS 08.30.22 | 06/27/22 06/27/22 | ACTUAL AREA / ALLO | WED AREA: | 630 | /92,000 | | |
| A2.20 A2.21 | WALL SECTIONS 08.30.22 | | | | | | | |
| A2.22 | WALL SECTIONS 08.30.22 | 06/27/22 | OCCUPANCY: ASSEMBLY (A-3) | | | | | |
| A3.20 | SECTION DETAILS - TYPICAL EXTERIOR DETAILS 08.30.22 | 06/27/22 | TABULATED ALLOWABLE | E AREA (SQ. FT.) | 9 | 9,500 | | |
| A4.10 | DOOR SCHEDULE 07.18.22 | 06/27/22 | | | | | | |
| A4.11 | HEAD, JAMB, SILL DETAILS 08.30.22 | 06/27/22 | SPRINKLER INCREAS | SE BY 506.3 | 38 | 8,000 | | |
| A5.00 | FINISH PLAN | 06/27/22 | ACTUAL AREA OF OC | CCUPANCY | | 843 | | |
| A5.10 | FF&E PLAN | 06/27/22 | 4071141 4054 (411.0) | NA/ED ADEA | 0.40 | /00.000 | | |
| A6.00 A6.10 | INTERIOR ELEVATIONS INTERIOR ELEVATIONS | 06/27/22 06/27/22 | ACTUAL AREA / ALLO | WED AREA: | 843, | /38,000 | | |
| A7.00 | CASEWORK AND CABINETRY SECTION DETAILS | 06/27/22 | OCCUPANCY: STORAGE (S-2) | | | | | |
| 711.00 | STRUCTURAL | 00/21/22 | TARIH ATER ALL OWARD F | - ADEA (OO, ET.) | | 0.000 | | |
| S-0.10 | GENERAL NOTES & SPECIAL INSPECTIONS 08/30/202 | 2 02/15/2022 | TABULATED ALLOWABLE | E AREA (SQ. FT.) | 20 | 6,000 | | |
| S1-1.0 | SLAB AND FOUNDATION PLAN 08/30/2022 | 2 02/15/2022 | SPRINKLER INCREAS | SE BY 506.3 | 10 | 04,000 | | |
| S-1.20 | ROOF FRAMING PLAN 08/30/2023 | 2 02/15/2022 | ACTUAL AREA OF OC | CCUPANCY | 3 | 3,711 | | |
| S-2.10 | FOUNDATION SECTION AND DETAILS 08/30/2023 | | | | | | | |
| S-3.20 | SECTION AND DETAILS 08/30/2022 | 2 02/15/2022 | ACTUAL AREA / ALLO | WED AREA: | 3,711 | //104,000 | | |
| MO 04 | MECHANICAL | 00/45/0000 | OCCUPANCY: RESIDENTIAL (R-3) | | | | | |
| M0.01 M0.02 | GENERAL DETAILS AND SCHEDULES | 02/15/2022 02/15/2022 | TABULATED ALLOWABLE | ADEA (CO. ET.) | | UL | | |
| | FLOOR PLAN | 02/15/2022 | TABOLATED ALLOWABLE | - AREA (SQ. FT.) | | | | |
| M1.11 | TAILPIPE EXHAUST SYSTEM | 02/15/2022 | SPRINKLER INCREAS | SE BY 506.3 | | UL | | |
| | ELECTRICAL | | ACTUAL AREA OF OC | CCUPANCY | 2 | 2,935 | • | |
| E0.01 | GENERAL | 02/15/2022 | | | | · | | |
| E0.02 | SCHEDULES | 02/15/2022 | ACTUAL AREA / ALLO | WED AREA: | 2,9 | 935/UL | • | ****** |
| | ENERGY COMPLIANCE REPORT | 02/15/2022 | IBC 508.4.2 COMPLIANCE 0.0 | 0068 + 0.0221+.0357 =0.0 | 0646 < 1.0 OK | | B. Marine | OF |
| | FLOOR PLAN - POWER FLOOR PLAN - LIGHTING | 02/15/2022 | DIN DING USIGNE DED IDO 2040 TARI | 15 504 0 0 504 4 | | | A MORE | 3/87 |
| L2.10 | PLUMBING | 02/15/2022 | BUILDING HEIGHT PER IBC 2018 TABL | LE 504.3 & 504.4 | | | | |
| P0.01 | GENERAL 07.18.22 | 02/15/2022 | OCCUPANCY : BUSINESS (B) | | | | No. | FESS |
| P0.02 | DETAILS & SCHEDULES 07.18.22 | | ALLOWED HEIG | GHT: | 4 STORIE | ES, 75 FEET | B PROF | CHIT |
| P0.03 | WASTE & VENT ISOMETRIC 07.18.22 | | , LESWED HER | | + 010ML | | - ALLINNO | AI |
| P1.10 | FLOOR PLAN _ WASTE & VENT 07.18.22 | 02/15/2022 | DESIGNED OCCUPAN | ICY HEIGHT: | 1 STO | RY, 36'-9" | """ | #### |
| P1.11 | FLOOR PLAN_ WATER 07.18.22 | 02/15/2022 | OCCUPANCY: ASSEMBLY (A-3) | | | | 0 | |
| | | | | | | | o o | |
| | | | ALLOWED HEIG | GHT: | 3 STORIE | ES, 75 FEET | • | |
| | | | DESIGNED OCCUPAN | ICY HEIGHT: | 1 STO | RY, 36'-9" | Cor | |
| | | | OCCUPANCY : STORAGE (S-2) | | | | - Gard Spe | U |
| | | | 50001 ANOT . STONAGE (3-2) | | | | | |
| | | | ALLOWED HEIG | GHT: | 4 STORIE | ES, 75 FEET | :200 | 1 |
| | | | DESIGNED OCCUPAN | ICY HEIGHT: | 1 STO | RY, 36'-9" | | + L |
| | | | | | | | | |
| | | | OCCUPANCY: RESIDENTIAL (R-3) | | | | · T | ۔ا ہے |
| | | | ALLOWED HEIG | GHT: | 4 STORIE | ES, 75 FEET | Tend | Jr |
| | | | DEGIONED COOLERS | ICV UEICUT: | 4.070 | DV 26' 0" | | ~ - |
| | | | DESIGNED OCCUPAN | ICT NEIGHT: | 1 510 | RY, 36'-9" | :Jark |)(|
| | | | NOTE: | | ID ADEA ELOODO A A MIVED OFDADATE | | . A Drofossions | |

dner

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)

20112

TITLE SHEET

IECC 2015 GA AMENDMENT TABLE C402.4 COMPLIANCE: FENESTRATION REQUIREMENTS

INDEX OF DRAWINGS

CIVIL

SHEET NAME

| VERTICAL FENESTRATION, METAL FRAMING WITH OR V | VITHOUT THERMAL BREAK : CLIMATE ZONE | E 4 EXCEPT MARINE | |
|---|--------------------------------------|-------------------|--------------|
| FIXED FENESTRATION U-FACTOR | | 0.38 | |
| ENTRANCE DOORS U-FACTOR | | 0.77 | |
| OPERABLE FENESTRATION U-FACTOR | | 0.45 | OCCUPANC |
| PROJECTION FACTOR = A/B WHERE A=DEPTH OF PROJECTION | IECTION, B=VERTICAL EXPOSURE | | USE LC |
| GLAZING CONDITION | PROJECTION FACTOR (PF) | REQUIRED SHGC | |
| WINDOWS UNDER NORTHEAST ENTRANCE | 130.0" / 47.0" = 2.77 | 0.64 | BUSINES S |
| DOOR UNDER NORTHEAST ENTRANCE | 130.0" / 37.0"=3.51 | 0.64 | |

TYPICAL WINDOWS UNDER LOWER ROOF OVERHANG 30" / 47" = .64 0.64 DOORS UNDER LOWER ROOF OVERHANG 30" / 37" = .81 TYPICAL WINDOWS UNDER HIGHER ROOF OVERHANG 37"/36"=1.02 0.64

GARAGE DOOR UNDER HIGHER ROOF OVERHANG

PATIO DOORS UNDER LOW ROOF OVERHANG -30"/59"=.51

37"/44"=.84

0.64

0.64

EXCEEDING 50 TOTAL REQUIRED

TOTAL DESIGNED

1 PER 25 FOR

THE FIRST 50

AND 1 PER 50

REMAINDER

FOR THE

OF IBC 508.4.2

EXCEEDING EXCEEDING A-3 44 1 PER 125 .176 1 PER 65 .176 1 PER 200 0.26 0.26 1.256

WATER CLOSETS

1 PER 25 FOR

THE FIRST 50

AND 1 PER 50

FOR THE

REMAINDER

1.66 | 1.66

FOR PURPOSES OF DETERMINING ALLOWABLE HEIGHT AND AREA, FLOORS 1, A MIXED SEPARATED OCCUPANCY, USES THE METHOD

PLUMBING FIXTURE CALCULATIONS

PLUMBING FIXTURE DISTRIBUTION PER I.P.C. MINIUMUM PLUMBING FIXTURE REQUIREMENTS

BUSINESS OCCUPANCY

1 PER 40 FOR

THE FIRST 80

AND 1 PER 80

REMAINDER

FOR THE

RATIO FEMALE RATIO MALE

LAVATORIES

IBC TABLE 601 COMPLIANCE

CONST. TYPE

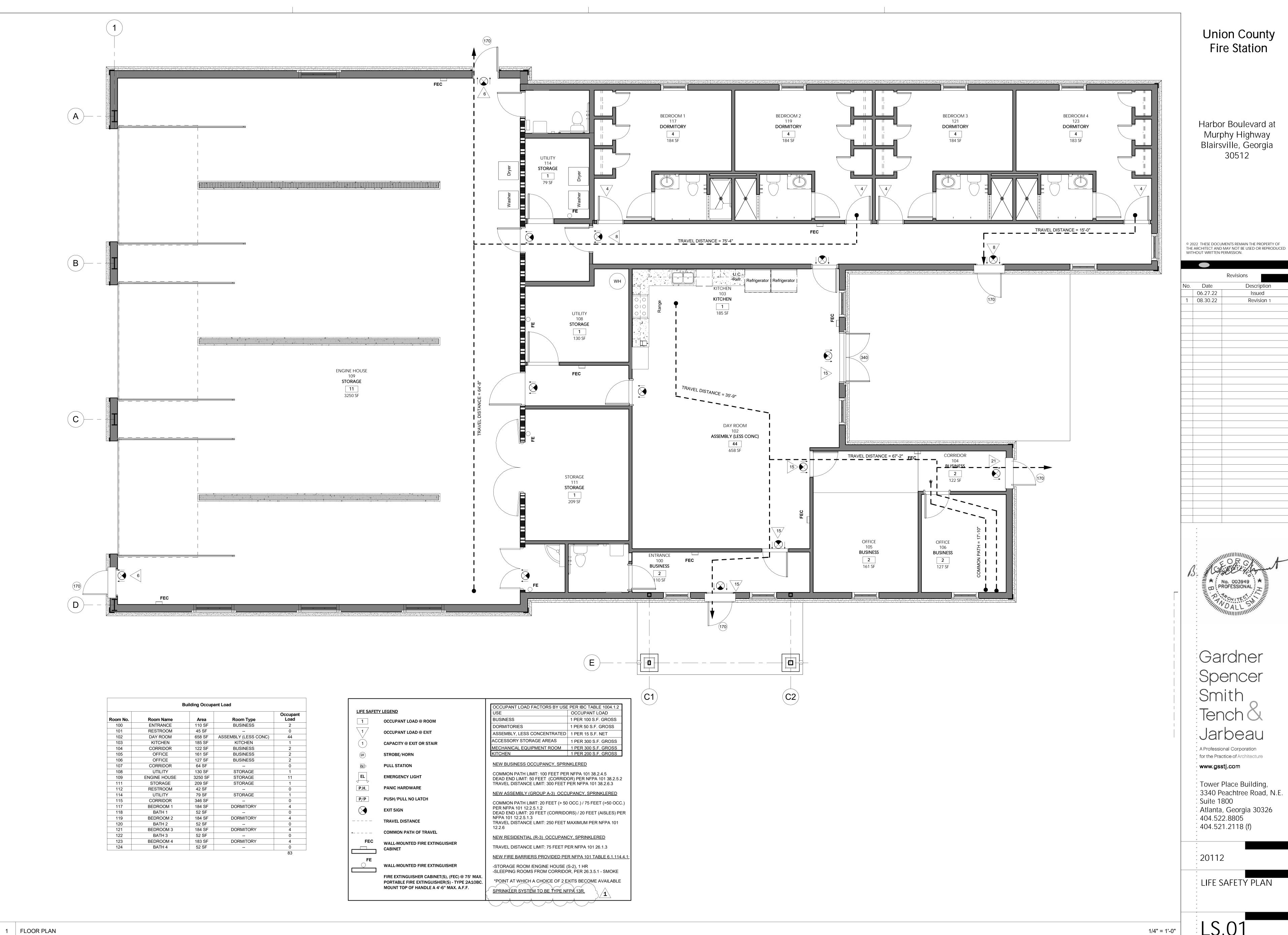
REQUIRED FIRE RESISTANCE (HR)

DETAIL REFERENCE

DF DRINKING BATHTUBS SERVICE

RATIO FOUNTAINS SHOWERS

100



30512

Description

Issued

Revision 1

FIRE STATION FOR UNION COUNTY, GA

MAY 9, 2022

INDEX

G1 COVER SHEET

C1 EXISTING SITE CONDITIONS

C2 SITE LAYOUT PLAN

GRADING AND UTILITY PLAN

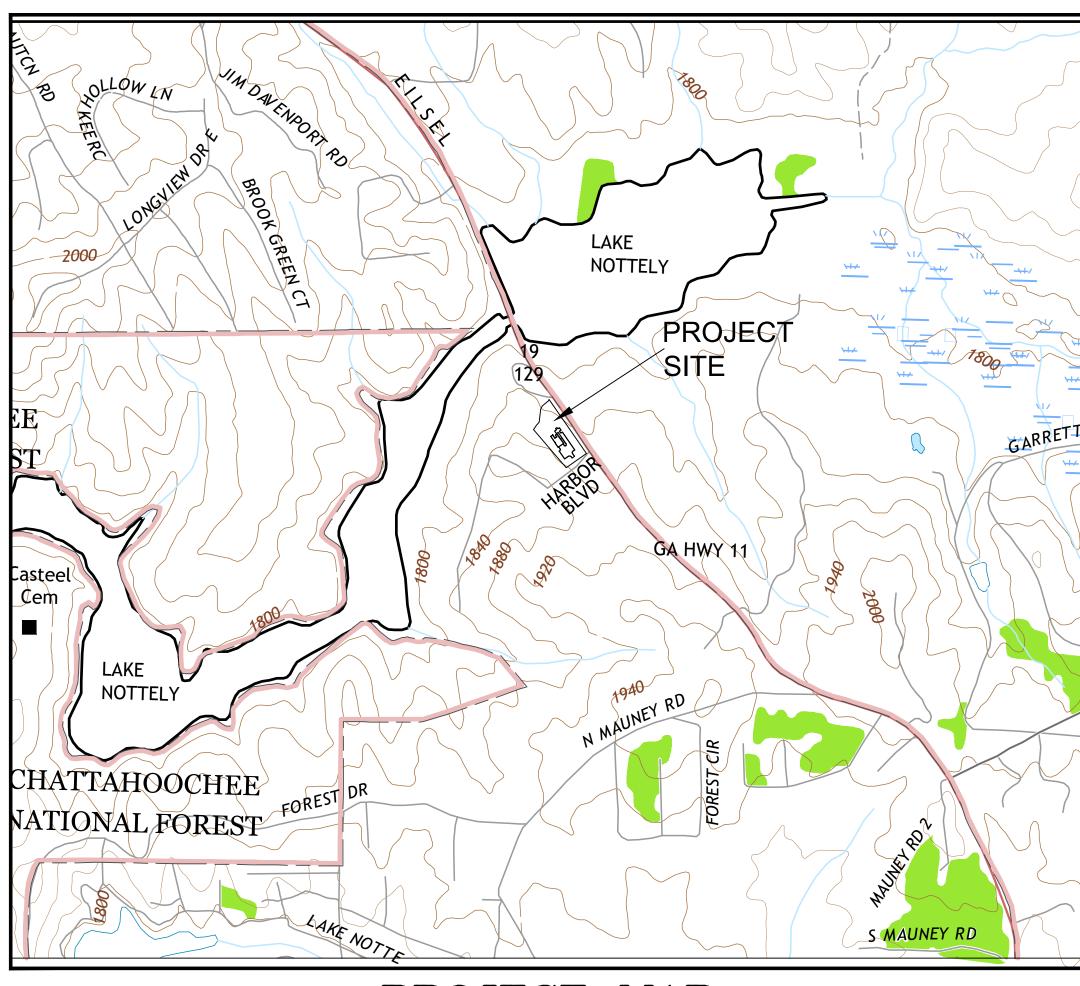
EC1 ESPC NOTES I

EC2 ESPC NOTES II
EC3 INITIAL ESPC PLAN

EC4 INTERMEDIATE ESPC PLAN

EC5 FINAL ESPC PLAN

D1 EROSION CONTROL AND GENERAL DETAILS



PROJECT MAP1" = 1000'

| DATE | NO. | DESCRIPTION | | |
|----------------------|-------------|---|--|-----------|
| 7/18/2022 | 1 | WATER LINE, GUTTER AND GUTTER DRAIN LINES, ADS DRAIN | | |
| | | LINE, AND SEPTIC LINE REVISIONS. | | 1 |
| | | | E ORG | |
| | | | - Constitution of the second o | |
| | | | | |
| | | | PROFESSIONAL) | |
| | | | | |
| | | | ON THE RAKER | G1 |
| | | | Alos lossos | |
| | | | 4/28/2022 | |
| | | | STAMP | SHEET NO. |
| PATH & FILE: F:\Proj | ects\2022\2 | 2022.5 Union County\2022.51 Fire Station\Design Stage\base fire station071822.dwg | | |

OWNER
UNION COUNTY
65 COURTHOUSE STREET, SUITE 1
BLAIRSVILLE, GA 30512
ucmanager@uniongov.com
(706) 439-6000

PRIMARY PERMITTEE:
UNION COUNTY
65 COURTHOUSE STREET, SUITE 1
BLAIRSVILLE, GA 30512
ucmanager@uniongov.com
(706) 439-6000

24 HOUR CONTACT: LARRY GARRETT ucmanager@uniongov.com (706) 439-6000

GENERAL NOTES:

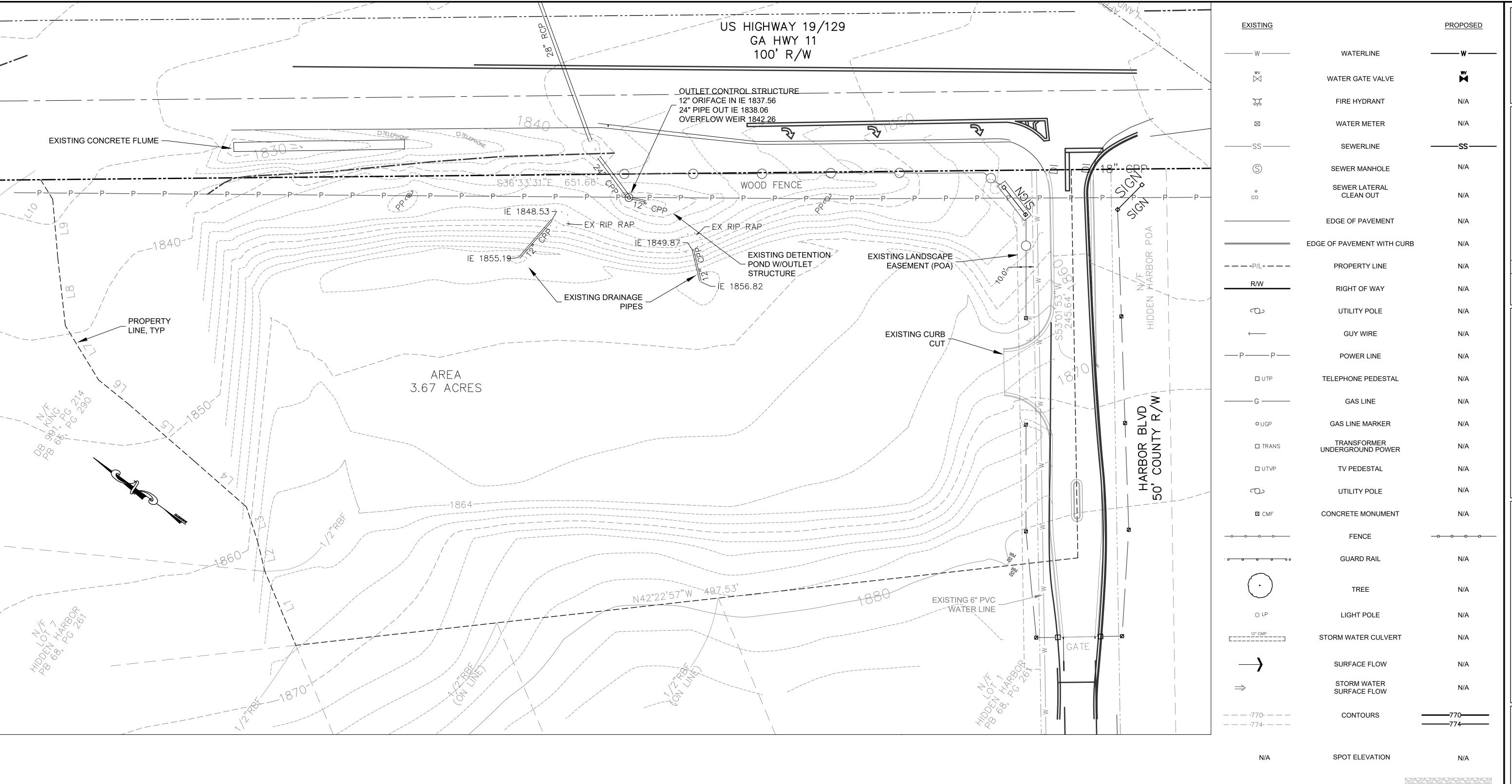
- 1. LOCATION OF LOT LINES, PROPERTY LINES, RIGHT-OF-WAY LINES, AND OTHER LAND DIVISION REFERENCES WERE OBTAINED FROM RECORDED DATA AND LAND USE OBSERVATIONS. THE LAND DIVISIONS WERE NOT FIELD CHECKED. THEREFORE, THEY MUST ONLY BE CONSIDERED TO APPROXIMATELY REPRESENT THE ACTUAL LAND DIVISIONS, PROPERTY AND/OR EASEMENTS.
- 2. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF WORK. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY LOCATION SERVICE AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK.
- 3. CONTRACTOR TO NOTIFY THE UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK. PHONE 811.
- 4. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO EXCAVATION OR DEMOLITION. ADDITIONAL UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN.
- 5. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, HAVE REPLACED OR REPAIRED THE UTILITIES TO THEIR ORIGINAL OR BETTER CONDITION AND QUALITY, AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATION'S AND/OR ADJUSTMENT WILL AFFECT THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED "AROUND" UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.
- 6. CONTRACTOR IS TO MEET ALL LOCAL UTILITY COMPANY REGULATIONS IN ANY READJUSTMENT OR RELOCATION OF EXISTING SERVICES.
- 7. A MINIMUM HORIZONTAL SEPARATION OF 10' SHALL BE MAINTAINED BETWEEN WATER LINES AND SANITARY SEWER LINES. AN 18" MINIMUM VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS OF WATER AND SEWER LINES. WHEN CROSSING A WATER LINE OR SEWER LINE, PIPE JOINTS SHALL BE PLACED AS FAR AWAY AS POSSIBLE FROM THE OTHER PIPE.
- 8. ALL CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR AT HIS EXPENSE.
- WHEN CONSTRUCTION INVOLVES THE REMOVAL OF FENCE, POLES, SIDEWALKS, DRIVE, TEMPORARY OR FIXED STRUCTURES; THE CONTRACTOR AT HIS EXPENSE SHALL PROVIDE FOR TEMPORARY SERVICE OR CONTAINMENT TO THE AFFECTED PROPERTY, AND SHALL REPLACE SUCH ITEMS WITH SIMILAR OR BETTER MATERIALS AS SOON AS PRACTICAL OR AS DIRECTED BY THE OWNER FOLLOWING UTILITY INSTALLATION.
- THE CONTRACTOR SHALL RESTORE OR HAVE RESTORED, AT HIS EXPENSE, ALL EXISTING FACILITIES WHICH HAVE BEEN DAMAGED DUE TO HIS CONSTRUCTION ACTIVITIES, TO THE ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL UTILIZE THE SAME MATERIAL COMPOSITION AS EXISTING TO REPLACE THE EXISTING FACILITIES UNLESS APPROVED OTHERWISE BY THE OWNER.
- 11. PEDESTRIAN AND LOCAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SAFETY DEVICES AND FLAGMEN SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE. WRITTEN PERMISSION TO CLOSE THE CONSTRUCTION AREA TO TRAFFIC MUST BE OBTAINED FROM THE APPROPRIATE GOVERNMENT AGENCY PRIOR TO THE CLOSING. ALL LOCAL EMERGENCY SERVICES SHALL BE NOTIFIED IN WRITING A MINIMUM 72 HOURS PRIOR TO ROAD CLOSINGS.
- 2. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA.
- CONTOURS FOR THIS PROJECT WERE OBTAINED FROM BLUE RIDGE MOUNTAIN SURVEYING.
- 14. DISTURBED LANDSCAPE AREAS SUCH AS TREES, SHRUBS, GRASS LAWNS, ETC. SHALL BE RESTORED AND REPLACED WITH MATERIALS OF LIKE KIND (I.E.: SOD LAWNS SHALL BE REPLACED WITH SOD OF SAME VARIETY AND QUALITY). THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING ANY EXISTING TREES, SHRUBS, GRASS LAWNS, OR OTHER EXISTING LANDSCAPE PLANT MATERIALS THAT ARE DAMAGED OR KILLED AS A RESULT OF CONSTRUCTION ACTIVITIES FOR ONE YEAR AFTER INSTALLATION OF WATERLINE. PLANT MATERIAL SHALL BE REPLACED WITH LIKE SIZE AND KIND OR PROPERTY OWNER SHALL BE APPROPRIATELY COMPENSATED. COMPENSATION WILL BE APPRAISED BY A QUALIFIED LANDSCAPE COMPANY.

OBSTRUCTIONS ENCOUNTERED:

IN ADDITION TO SHOWING THE STRUCTURES TO BE BUILT FOR THIS PROJECT, THE DRAWINGS SHOW CERTAIN INFORMATION OBTAINED BY THE ENGINEER REGARDING THE PIPES, POLE LINES, CONDUITS AND OTHER STRUCTURES WHICH EXIST ALONG THE LINE OF THE WORK, BOTH AT AND BELOW THE SURFACE OF THE GROUND. THE ENGINEER AND THE OWNER EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION GIVEN ON THE DRAWINGS WITH REGARD TO EXISTING STRUCTURES, AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY EXTRA COMPENSATION ON ACCOUNT OF INACCURACY OR INCOMPLETENESS OF SUCH INFORMATION, SAID STRUCTURES BEING INDICATED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, WHO MUST VERIFY THE INFORMATION TO HIS OWN SATISFACTION. THE GIVING OF THIS INFORMATION UPON THE CONTRACT DRAWINGS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL PIPES, CONDUITS, AND OTHER STRUCTURES WHICH MAY BE ENCOUNTERED DURING THE CONSTRUCTION OF WORK, AND TO MAKE GOOD ALL DAMAGES DONE TO SUCH PIPES, CONDUITS, AND OTHER STRUCTURES, AS PROVIDED IN THESE SPECIFICATIONS. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO EXCAVATION SO AS TO PREVENT DAMAGE TO THOSE SERVICES OR OTHER UTILITIES. ANY SUCH DAMAGES MUST BE REPAIRED WITHOUT DELAY AND THE COST OF SUCH REPAIRS SHALL BE PAID FOR BY THE CONTRACTOR.

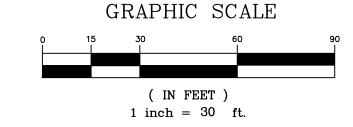
DON BAKER ENGINEERING

89 GRANDWATER DRIVE SUWANEE, GA 30024 770-403-4527



PROPERTY LINE CALL OUTS

| 1 1 () 1 | LIVIT LINE OFFICE | 0010 |
|-----------|-------------------|----------|
| LINE | BEARING | DISTANCE |
| L1 | N31°18'38"E | 50.68 |
| L2 | N40°19'17"E | 19.47 |
| L3 | N36°06'58"E | 23.00' |
| L4 | N05°16'13"E | 44.17 |
| L5 | N04°57'27"E | 54.90' |
| L6 | N02°51'56"E | 24.12' |
| L7 | N22°31'49"E | 40.31 |
| L8 | N47°38'38"E | 43.28' |
| L9 | N49°01'29"E | 37.12 |
| L10 | N22°20'15"E | 14.53 |





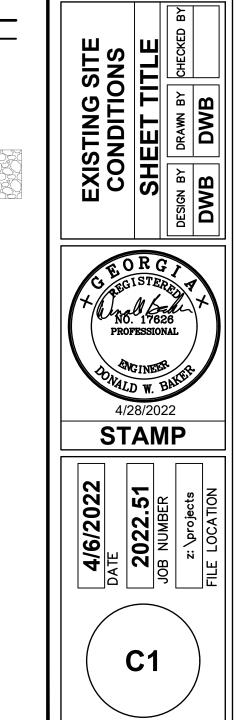
UTILITY DISCLAIMER

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SURVEY PROVIDED BY: BLUE RIDGE MOUNTAIN SURVEYING 1365 MURPHY HWY BLAIRSVILLE, GA 30512 (706) 897-7900

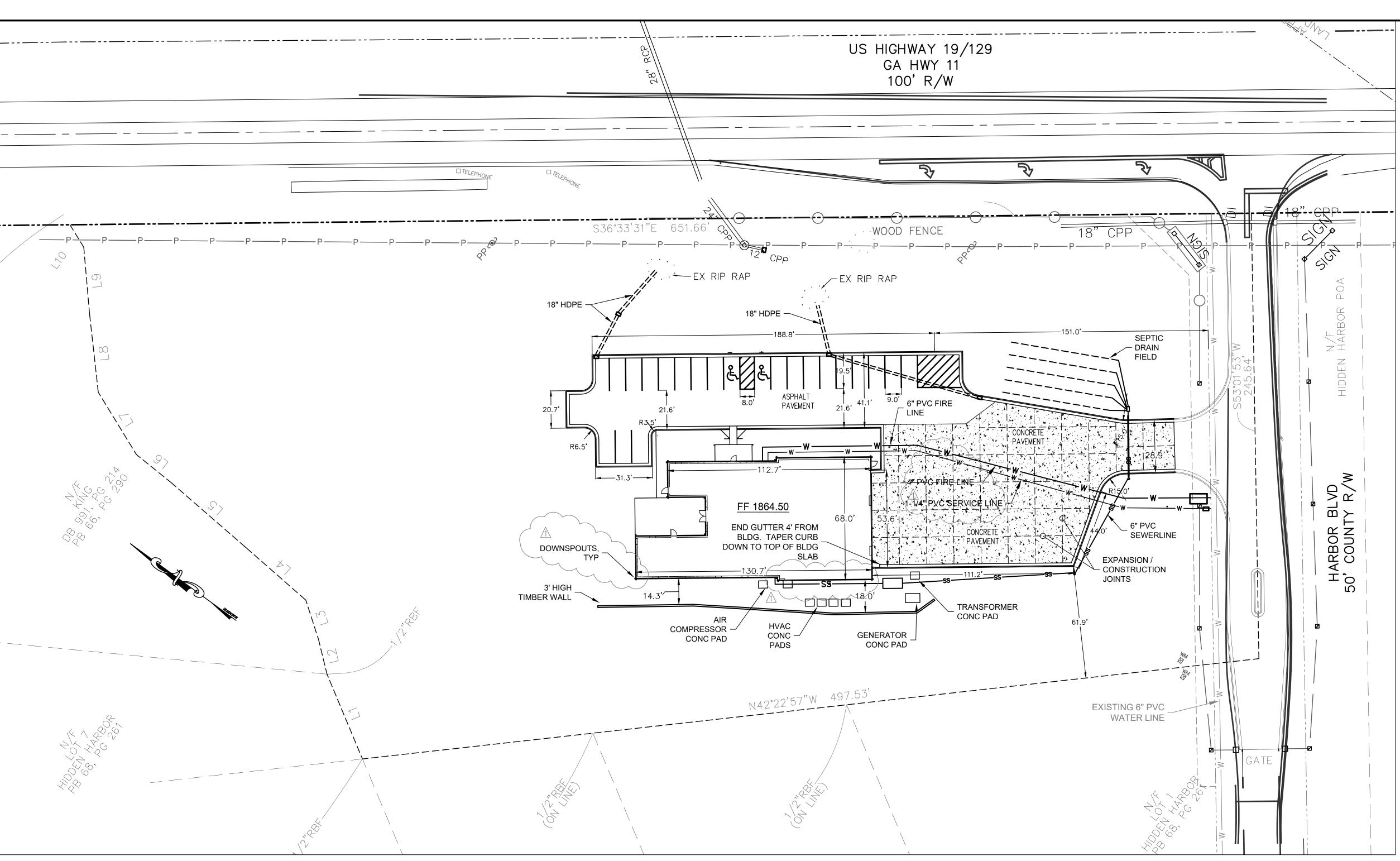
RIP RAP

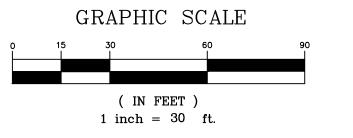
N/A



E STATION FOR COUNTY, C

UNION





PROPERTY LINE CALL OUTS

| LI | NE | BEARING | DISTANCE |
|----|-----|-------------|----------|
| | L1 | N31°18'38"E | 50.68 |
| | L2 | N40°19'17"E | 19.47 |
| | L3 | N36°06'58"E | 23.00' |
| | L4 | N05°16'13"E | 44.17 |
| | L5 | N04°57'27"E | 54.90' |
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| | L7 | N22°31'49"E | 40.31 |
| | L8 | N47°38'38"E | 43.28' |
| | L9 | N49°01'29"E | 37.12 |
| | L10 | N22°20'15"E | 14.53 |



Know what's below. Call before you dig.

SUCH REPAIRS MUST BE BORNE BY THE CONTRACTOR.

UTILITY DISCLAIMER

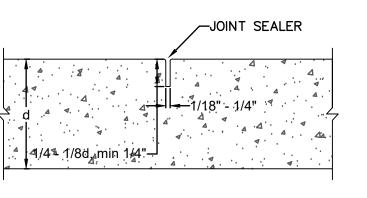
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CONCRETE PAVEMENT NOTES:

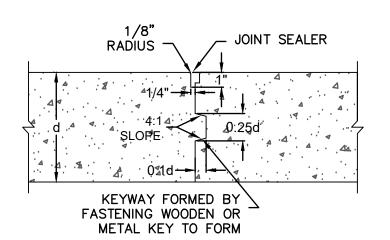
- 1. CONCRETE AREA SHALL BE 6" THICK 4000 PSI REINFORCED CONCRETE WITH 6 X6 4/4 WELDED WIRE FABRIC.
- FORM TRANSVERSE CONTRACTION JOINTS BY SAWING WITH APPROVED EQUIPMENT. 4. SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVALS OF 15'.

2. BASE MATERIAL SHALL BE 4" OF CRUSHED LIMESTONE. COMPACT TO 100% STD

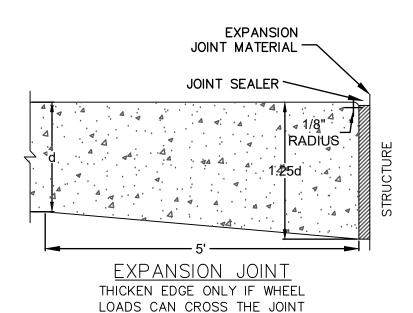
- 5. CONSTRUCT TRANSVERSE CONSTRUCTION JOINTS AT THE END OF EACH DAY'S OPERATION (PLANNED JOINT) OR WHEN THE PLACING OF CONCRETE IS SUSPENDED FOR MORE THAN 30 MINUTES (EMERGENCY
- 6. USE A TEMPORARY HEADER AT EMERGENCY JOINTS..
- 7. USE TIE BARS OF THE SAME DIAMETER AS DOWEL BARS FOR EMERGENCY TRANSVERSE CONSTRUCTION JOINTS.
- 8. LOCATE PLANNED TRANSVERSE CONSTRUCTION JOINTS AT THE SPACING REQUIRED FOR CONTRACTION JOINTS. USE AN APPROVED METHOD OF INSTALLING DOWELS IN ALL PLANNED TRANSVERSE
- CONSTRUCTION JOINTS. 9. DO NOT LOCATE EMERGENCY TRANSVERSE CONSTRUCTION JOINTS LESS THAN 6' FROM ANY CONTRACTION JOINT OR PLANNED CONSTRUCTION JOINT.
- 10. DO NOT PLACE TIE BARS IN LONGITUDINAL JOINTS WITHIN 1'-4" OF A TRANSVERSE
- 11. SEAL ALL JOINTS WITH RUBBER ASPHALT JOINT SEALER IN PRESENCE OF INSPECTOR.
- 12. PLACE TIE BARS (DEFORMED STEEL BARS) ALONG THE LONGITUDINAL JOINTS AT 30" ON CENTER. PLACE DOWEL BARS (SMOOTH STEEL BARS) ALONG THE TRANSVERSE JOINTS AT 12" ON CENTER.
- 13. USE RIGID CONSTRUCTED DOWEL ASSEMBLY CAPABLE OF HOLDING THE DOWEL BAR IN PROPER POSITION DURING PLACEMENT OF CONCRETE AND DESIGNED TO PERMIT UNRESTRICTED MOVEMENT OF THE
- 14. DOWEL BARS SHALL BE 1" DIAMETER AND 14" LONG.
- 15. TIE BARS SHALL BE 1/2" DIAMETER AND 30" LONG.



SAWED JOINT LONGITUDINAL OR TRAVERSE



KEYED CONSTRUCTION JOINT LONGITUDINAL OR TRAVERSE FOR LOCATIONS WHERE TIE BARS ARE REQUIRED.



OWNER'S INSPECTOR SHALL CONFIRM

CONSTRUCTION.

THICKNESS OF BASE AND ASPHALT DURING

MEDIUM DUTY PAVEMENT

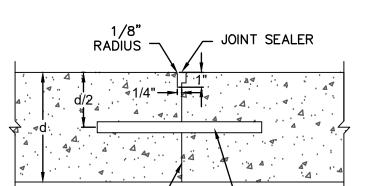
2" ASPHALT TOPPING

12.5 mm SUPERPAVE (HMA)

6" GRADED AGGREGATE BASE - MAX SIZE 1"

COMPACTED TO 100% STD. PROCTOR. SUBGRADE PREPARED IN ACCORDANCE

WITH GA. DOT SPECIFICATIONS



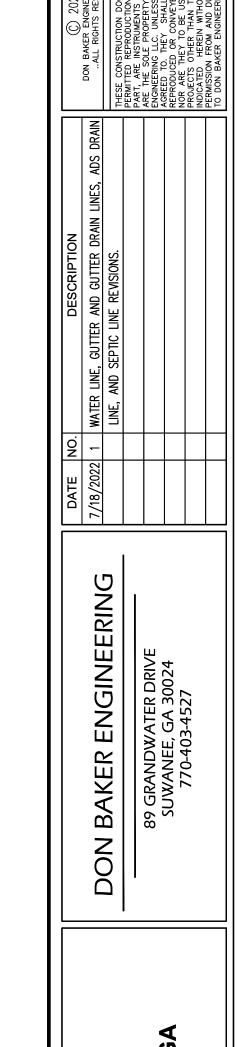
TRANSVERSE CONSTRUCTION JOINT USE ONLY AT LOCATION OF CONTRACTION JOINT. JOINT OCCURS IN MIDDLE THIRD OF NORMAL SLAB, USE KEYED CONSTRUCTION JOINT WITH TIEBAR.

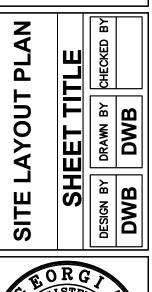
BUFF JOINT FORMED

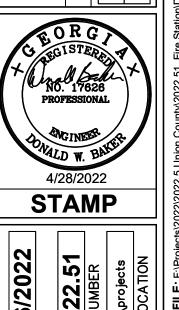
BY BULK HEAD -

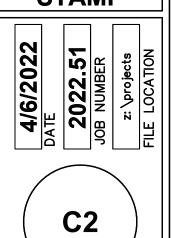
SMOOTH

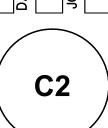
DOWEL BAR

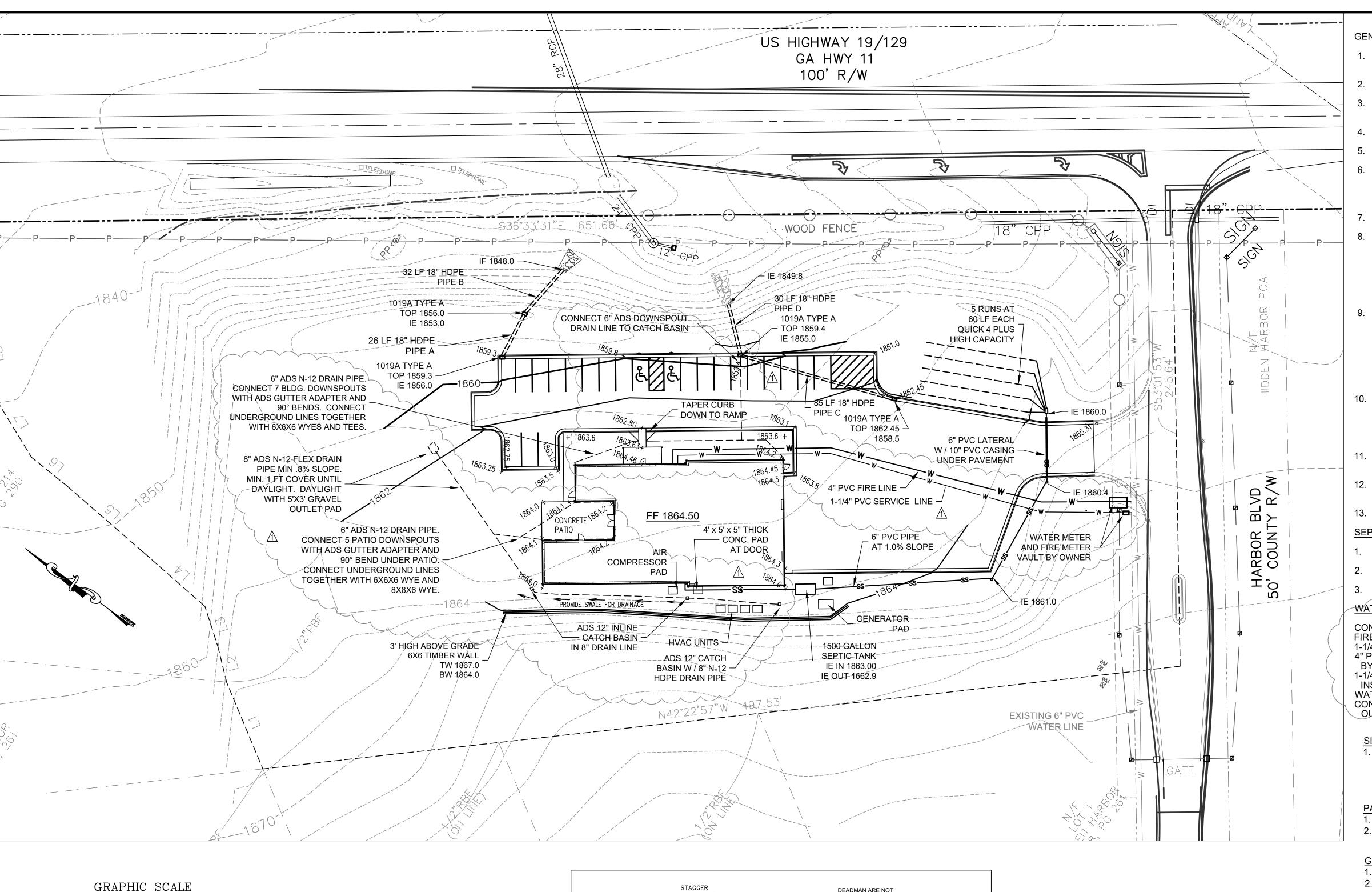












GENERAL PIPE INSTALLATION:

- 1. WATER/SEWER PIPE AND APPURTENANCES SHALL BE INSTALLED ONLY WHEN TRENCH CONDITIONS ARE SUITABLE.
- 2. TRENCHES MUST BE DRY.
- PROPER IMPLEMENTS, TOOLS, AND FACILITIES SHALL BE PROVIDED BY CONTRACTOR FOR SAFE AND CONVENIENT PERFORMANCE OF THE WORK
- 4. PREVENT DAMAGE TO PIPE MATERIALS AND PROTECTIVE COATINGS AND LININGS.
- 5. DO NOT DROP OR DUMP PIPELINE INTO TRENCH
- 6. CAREFULLY EXAMINE PIPE AND FITTINGS FOR CRACKS AND OTHER DEFECTS WHILE SUSPENDED ABOVE TRENCH IMMEDIATELY BEFORE INSTALLATION IN FINAL POSITION. DEFECTIVE PIPE OR FITTINGS SHALL BE CLEARLY MARKED AND SHALL BE REMOVED FROM SITE.
- 7. CLEAN BELL AND SPIGOT ENDS OF EACH PIPE THOROUGHLY BEFORE PIPE IS LAID.
- 8. PREVENT FOREIGN MATERIAL FROM ENTERING PIPE WHILE IT IS BEING PLACED IN
- A. PROVIDE PROTECTIVE COVERING FOR ENDS OF PIPE UNTIL CONNECTION IS MADE TO ADJACENT PIPE, IF NECESSARY.
- NO DEBRIS, TOOLS, CLOTHING, OR OTHER MATERIALS SHALL BE PLACED IN PIPE DURING LAYING OPERATIONS.
- 9. AS EACH LENGTH OF PIPE IS PLACED IN TRENCH, SPIGOT END SHALL BE CENTERED IN BELL AND PIPE FORCED HOME AND BROUGHT TO CORRECT LINE AND GRADE.
- A. PIPE SHALL BE SECURED IN PLACE WITH APPROVED BACK FILL MATERIAL TAMPED AROUND IT.
- B. PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING JOINT SPACE.
- 10. OPEN ENDS OF PIPE SHALL BE CLOSED BY WATERTIGHT PLUG, OR OTHER MEANS APPROVED BY OWNER, AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS. IF WATER IS IN TRENCH, PLUG SHALL REMAIN IN PLACE UNTIL TRENCH IS PUMPED COMPLETELY DRY. WATER SHALL NOT BE ALLOWED TO RUN INTO PIPE AT ANY TIME DURING CONSTRUCTION.
- 11. LAY PIPE WITH BELL ENDS FACING IN DIRECTION OF LAYING, UNLESS DIRECTED OTHERWISE BY OWNER.
- 12. FOR 6" SERVICE LATERAL INSTALLATION, CLEANOUTS SHALL BE INSTALLED AT ALL BENDS.
- 13. SEE DETAIL SHEET FOR PIPE BEDDING DETAILS FOR SEWER AND STORM PIPING.

SEPTIC SYSTEM

- SUBMIT THIS PLAN TO UNION COUNTY HEALTH DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION OF SEPTIC SYSTEM.
- INSTALLATION OF SEPTIC SYSTEM SHALL BE IN ACCORDANCE WITH GEORGIA DEPARTMENT OF HEALTH SEPTIC SYSTEM DESIGN MANUAL.
- 3. CLEANOUTS SHALL BE INSTALLED AT ALL BENDS IN SERVICE LATERALS.

WATER SYSTÉM

CONTACT NOTTELY WATER AUTHORITY FOR SERVICE CONNECTION.
FIRE METER VAULT AND CONNECTION TO NOTTELY WATER SHALL BE BY OWNER.
1-1/4" SERVICE METER AND CONNECTION TO NOTTELY WATER SHALL BE BY OWNER.
4" PVC FIRE LINE SHALL BE AWWA C-900 DR 18 PRESSURE CLASS 150 AND INSTALLED BY CONTRACTOR.

1-1/4" PVC SERVICE LINE SHALL BE SDR 18 W/ PRESSURE RATING OF 200 PSI AND INSTALLED BY CONTRACTOR.
WATER LINES SHALL BE BLUE IN COLOR.

CONTRACTOR TO CONNECT INSTALLED WATER LINES TO OUTLET OF FIRE VAULT AND OUTLET OF 1-1/4" SERVICE METER BOX.

E STATION FOR COUNTY, C

GRADING AND UTILITY PLAN

4/28/2022

2022.51 JOB NUMBER

STAMP

4/6/2022

DWB

UNION

SIDEWALK NOTES:

1. SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE A MINIMUM 5' IN WIDTH AND 4" THICK. SIDEWALKS SHALL BE CONSTRUCTED WITH A CROSS SLOPE OF 0.25 IN/FT. CONCRETE SHALL BE CLASS "B" AND HAVE A STRENGTH OF 2200 PSI AT 28 DAY.

Δ\/ΕΜΕΝΙΤ

PAVEMENT

1. SEE SHEET C2 FOR CONCRETE PAVEMENT NOTES AND DETAILS.

2. ASPHALT PAVING SHALL BE CONSTRUCTED PER THE DETAIL ON SHEET C2.

GRADING NOTES

. CONTOUR INTERVALS ARE 2 FEET.

- 2. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH REQUIREMENTS OF OSHA CONSTRUCTION STANDARDS. PART 1926, SUBPART P, EXCAVATIONS, TRENCHING, AND SHORING, AND SUBPART O, MOTOR VEHICLES, MECHANIZED EQUIPMENT, AND MARINE OPERATIONS, AND SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO OWNER/ENGINEER.
- 3. FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, FREE OF ORGANIC OR DELETERIOUS MATERIALS, ROCKS, OR BROKEN PIECES OF CONCRETE LARGER THAN THREE INCHES IN SIZE, OR OF ANY OTHER FOREIGN OBJECTS THAT COULD IMPEDE COMPACTION RESULTS.
- 4. FILL MATERIALS SHALL BE SPREAD EVENLY IN HORIZONTAL LAYERS OF NOT MORE THAN 8 INCHES IN LOOSE LIFTS OVER THE FULL WIDTH OF FILL AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY BY STANDARD PROCTOR COMPACTION TEST ASTMD698 UNLESS OTHERWISE NOTED.
- MAXIMUM CUT OR FILL SLOPES ARE 2H:1V.
- 6. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS INTO STORM CHANNELS.

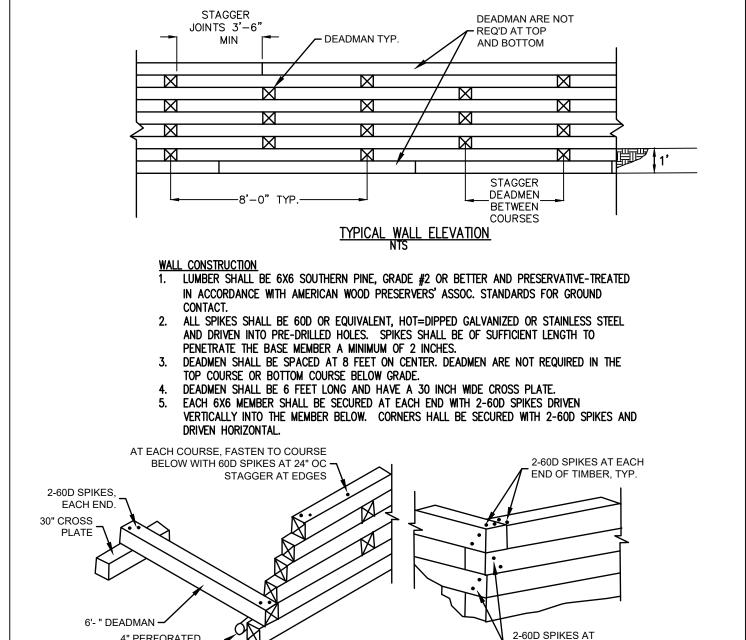
| F | RIPRAP A | APRON | N SUMN | IARY | | | | | | |
|------------|-------------------------|-----------------------|-------------------|------------------------|-------------------------|---------------------------|----------------------------------|--------------------------|--------------------------|-----------------|
| PIPE ID | PIPE DIAMETER (d) | FLOW RATE (cfs) | VELOCITY (fps) | TAILWATER CONDITION | APRON LENGTH (La) | WIDTH UPSTREAM (W1) | WIDTH DOWNSTREAM (W=Do+La) | RIP RAP SIZE (d50) | RIP RAP DEPTH (in) | RIP RAP TYPE |
| PIPE A & B | 18" | 2.72 | 2.05 | MIN | 10' | 5' | 12' | 4" | 18" | DOT TYPE 3 |
| PIPE C & D | 18" | 6.45 | 4.50 | MIN | 20' | 5" | 14' | 4" | 18" | DOT TYPE 3 |

NOTE: PIPE A & B ARE COMBINED WITH TOTAL OUTFALL FLOW SHOWN FROM PIPE B NOTE: PIPE C & D ARE COMBINED WITH TOTAL OUTFALL FLOW SHOWN FROM PIPE D



UTILITY DISCLAIMER

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4" PERFORATED
DRAIN PIPE WITH —
GRAVEL BED

DONALD BAKER GSWCC LEVEL II CERT # 12796 SEE ALL EC SHEETS

NOT APPLICABLE - LIMITS OF DISTURBANCE < 50 ACRES

24 HOUR CONTACT LARRY GARRETT 65 COURTHOUSE STREET, SUITE 1 BLAIRSVILLE, GA 30512 ucmanager@uniongov.com (706) 439- 6000

CHECKLIST #5

UNION COUNTY 65 COURTHOUSE STREET, SUITE 1 BLAIRSVILLE, GA 30512 ucmanager@uniongov.com (706) 439- 6000

TOTAL DISTURBED AREA 1.31 ACRES TOTAL PROJECT AREA: 3.67 ACRES

CHECKLIST #7 34.933506°N / -84.033251°W

REFERENCE TITLE BLOCKS ALL SHEETS

EXISTING GRASSED AND GRADED SITE AT INTERSECTION OF GA CONSTRUCTION OF A FIRE STATION AND PARKING.

CHECKLIST #10 REFERENCE SHEET EC2

DRAINAGE SWALE / TRIBUTARY TO LAKE CHATUGE. NO SENSITIVE ADJACENT AREAS.

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 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 CHECKLIST 25 GEORGIA, (MANUAL)" PUBLISHED BY THE GEORGIA SOIL AND WATER SPILL CLEANUP AND CONTROL PRACTICES CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND OF STORM WATER OUTFALL(S) 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."

1 knall Dille DONALD W BAKER, PE

CHECKLIST #14

THE 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.

DATE OF INSPECTION

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON WATER IMPACTS OCCUR, THE GEORGIA EPD WILL BE THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL #12796

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM T ES&PC PLAN.

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

CHECKLIST #15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 PRODUCTS TO THE MINIMAL AMOUNT NECESSARY FOR EACH OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM PHASE OF CONSTRUCTION. 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.

THERE ARE NO BUFFER ENCROACHES ON THIS PROJECT AND NO GA EPD BUFFER VARIANCES REQUIRED.

CHECKLIST #17

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.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF

THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

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.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL

NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

THIS SITE IS WILL NOT DISCHARGED TO AN IMPAIRED STREAM, NOR IS IT 1 LINEAR MILE UPSTREAM OF ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

THIS PROJECT DOES NOT DISCHARGE TO RECEIVING WATERS THAT HAVE OR REQUIRE A TMDL IMPLEMENTATION PLAN.

RUCK WASH-DOWN FACILITY

USE FOR THE CONCRETE WASH-DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND REAR OF VEHICLES. WASH-OUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. THE CONTRACTOR SHALL EXCAVATE A PIT OUTSIDE OF STATE WATER BUFFERS, AT LEAST 25 FEET FROM ANY STORM DRAIN AND OUTSIDE OF THE TRAVEL WAY, INCLUDING SHOULDERS, HWY 11 AND HARBOR BLVD. SITE WILL BE PARTIALLY GRADED FOR FOR A WASH/PIT AREA. THE PIT SHALL BE LARGE ENOUGH TO STORE ALL WASH-DOWN WATER WITHOUT OVERTOPPING THE PIT. IMMEDIATELY AFTER THE WASH-DOWN OPERATIONS ARE COMPLETED AND AFTER THE WASH-DOWN WATER HAS SOAKED INTO THE GROUND, THE PIT SHALL BE FILLED IN, AND THE GROUND ABOVE SHALL BE GRADED TO MATCH THE ELEVATION OF THE SURROUNDING AREAS SMOOTHED OUT. ALTERNATE WASH-DOWN PLANS MUST BE APPROVED BY THE PROJECT

> WASH-DOWN PLANS DESCRIBE PROCEDURES THAT PREVENT WASH DOWN WATER FROM ENTERING STREAMS AND RIVERS. NEVER DISPOSE OF WASH-DOWN WATER DOWN A STORM DRAIN ESTABLISH A WASH-DOWN WATER PIT LOCATION THAT INCLUDES THE FOLLOWING: (1) THE PIT IS LOCATED AWAY FROM A STORM DRAIN, STREAM OR RIVER, (2) THE PIT IS ACCESSIBLE TO THE VEHICLE BEING USED FOR WASH-DOWN, (3) THE PIT HAS ENOUGH VOLUME FOR WASH-DOWN WATER, AND (4) MAKE SURE YOU HAVE PERMISSION TO USE THE AREA FOR WASH-DOWN. ON SOME SITES, YOU MAY NOT HAVE PERMISSION OR ACCESS TO A LOCATION WHICH ALLOWS FOR A WASH-DOWN PIT. IN THOSE CASES, THE CONTRACTOR MAY HAVE TO WASH-DOWN INTO A WHEELBARROW OR OTHER CONTAINER AND CARRY THE CONTAINER FOR TRANSPORT TO A PROPER DISPOSAL SITE. FOR ADDITIONAL INFORMATION, REFER TO THE GEORGIA SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM'S "A GUIDE FOR READY MIX CHUTE/HOPPER WASH-DOWN".

PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY

LOCAL, STATE, AND FEDERAL REGULATIONS. SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802 AND

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, 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 PETROLEUM IS STORED ONSITE. (THIS INCLUDES CAPACITIES OF EQUIP.) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED

PROFESSIONAL.

PERMANENT GRASS FILTER STRIPS WILL PROVIDE WATER QUALITY IN ACCORDANCE TABLE 4.1.1-1 OF THE 2016 GEORGIA STORMWATER MANAGEMENT MANUAL AND AS DESCRIBED IN SECTION 4.29.

TARPS AT ALL TIMES WHEN NOT IN USE. CONTRACTOR SHALL LIMIT AMOUNT OF BUILDING MATERIALS AND BUILDING

PRACTICES TO BE USED TO REDUCE POLLUTANTS IN STORM WATER DISCHARGE:

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 OR SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, 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 TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES 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 - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

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 GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT 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.

SEE SHEET EC2 FOR ACTIVITIES SCHEDULE.

A. PRIMARY PERMITTEE

(1). EACH 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 PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE O F TERMINATION IS SUBMITTED.

(2). 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 UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). 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 A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT SUBMITTED IN ACCORDANCE WITH PART VI. 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 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION. FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE MEASUREMENTS: INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL SAMPLING AND MEASUREMENTS; MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE C. THE DATE(S) ANALYSES WERE PERFORMED OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, D. THE TIME(S) ANALYSES WERE INITIATED; THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). 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 NTU;, AND INSPECTION. (6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED PER THE PLAN. PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION SUBMITTAL SHALL BE READILY AVAILABLE AT THE DESIGNATED LOCATION FROM AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY 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 RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE CONTRACTOR IS REQUIRED TO COVER ALL BUILDING MATERIALS MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND BUILDING PRODUCTS ON SITE WITH HEAVY GAUGE PLASTIC AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

CHECKLIST #31

D. SAMPLING FREQUENCY.

(1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON

(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE. BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER

(3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

(A). 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 STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND 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 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, 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 DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AS IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING 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 JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF 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 THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS 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.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING 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 STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED INA A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. 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

ANALYSES; F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; 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

PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

F. RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A 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.

2. 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.

B. SAMPLE TYPE. 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 PART 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. 1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. 3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD

BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. 4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUANTIFYING EVENT, THE PERMITTEE

ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. 5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT

QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE

REFERENCE PLAN CHECKLIST ON EC2 FOR DIRECTION. MAXIMUM ALLOWABLE INCREASE XXXXX

REFERENCE PLAN CHECKLIST ON EC2 FOR DIRECTION

THAT RECEIVE RUNOFF FROM DISTURBED AREAS.

NARRATIVE OF EROSION/SEDIMENT CONTROL PRACTICES

INITIAL PHASE: SITE PREPARATION. THIS STAGE RELATES TO ALL ACTIVITIES PRIOR TO CONSTRUCTION ACTIVITIES AND SHALL BE COMPLETED INTO TWO

SUB-STAGES, ACCORDING TO THE FOLLOWING ORDER: A. INSTALLATION OF TEMPORARY SILT FENCES AND INLET PROTECTION AS SHOWN ON PLANS. SILT FENCES SHALL SPECIALLY BE USED AS PREVENTIVE FILTERS TO PROTECT EXISTING DOWNSTREAM DETENTION POND. SEDIMENT BARRIER MUST BE INSTALLED ALONG CONTOURS WITH ENDS POINTING UPHILL TEMPORARY SEDIMENT BARRIER MUST BE PLACED AROUND STORM DRAIN INLETS

B. ACCESS STABILIZATION: CONSTRUCTION EXIT SHALL PROVIDE STABLE ACCESS TO SITE. IT MUST BE CHECKED DAILY AND REPAIRED AS NEEDED. IT MUST BE REMOVED AFTER CONSTRUCTION.

C. APPLICATION OF TEMPORARY VEGETATION OF ALL DISTURBED AREAS AS

INTERMEDIATE PHASE: INTERMEDIATE AND FINAL CONSTRUCTION ACTIVITIES. DURING THIS STAGE, GRADING OPERATIONS TAKE PLACE.

A. TO PROVIDE EROSION CONTROL AT POINT OF CONCENTRATED FLOW AND HIGH FLOW VELOCITIES, STONE DUMPED RIP RAP SHALL BE USED AT STORM PIPE

B. INLET SEDIMENT TRAPS WILL BE USED AT NEW STORM PIPES TO REDUCE SEDIMENT DOWNSTREAM OF PIPES.

C. APPROVED TEMPORARY AND PERMANENT VEGETATIVE AND STRUCTURAL BMPS MUST BE APPLIED AS SHOWN ON PLANS.

FINAL PHASE: ALL PERMANENT, POST-CONSTRUCTION BMPS ARE SHOWN IN THE CONSTRUCTION PLANS AND IN THE ESPC PLAN. THE POST-CONSTRUCTION BMPS FOR THIS PROJECT INCLUDE GRASSING, RIP-RAP AT PIPE OUTLETS FOR VELOCITY DISSIPATION AND OUTLET STABILIZATION. THE POST-CONSTRUCTION BMPS WILL PROVIDE PERMANENT STABILIZATION OF THE SITE AND PREVENT ACCELERATED TRANSPORTATION OF SEDIMENT AND POLLUTANTS INTO RECEIVING WATERS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN FOURTEEN DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER THIRTY DAYS SHALL BE STABILIZED WITH PERMANENT GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.

ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

EROSION CONTROL MEASURES MUST 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 AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.

CHECKLIST #37 REFERENCE ALL PLAN SHEETS FOR NORTH ARROW

REFERENCE ALL PLAN SHEETS FOR CONTOUR

NO ALTERNATIVE BMPS WILL BE USED.

NO ALTERNATIVE BMPS WILL BE USED.

NO STREAM BUFFERS ARE ON THIS PROJECT.

THERE ARE NO ONSITE WETLANDS OR STATE WATERS LOCATED WITHIN 200 FEET OF THIS SITE.

SEE SHEET EC2 FOR DRAINAGE BASINS.

SEE HYDROLOGY STUDY.

SEE HYDROLOGY STUDY AND SHEET EC2 FOR RUNOFF COEFFICIENTS AND PEAK DISCHARGE.

PIPE CHART SHOWN ON SHEET C3 AND EC2. SHOWS. PIPE DISCHARGES AND VELOCITIES AND RIP RAP REQUIREMENTS.

SEE SOIL SERIES CHART SHEET EC2.

SEE SHEETS EC3 THROUGH EC5.

SEDIMENT STORAGE WILL BE ACCOMPLISHED THROUGH THE USE OF SILT FENCE AND TEMPORARY SEDIMENT TRAPS. SEDIMENT TRAPS HAVE BEEN DESIGNED TO PROVIDE 67 CUBIC YARDS PER DISTURBED AREA.

REFERENCE ALL EROSION CONTROL PLAN SHEETS.

REFERENCE DETAIL SHEETS

EROSION CONTROL PLANS PROVIDE FOR BOTH TEMORARY AND PERMANENT VEGETATION.

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CERTIFICATION NO. 12796

EXPIRES 8/1/2024

DONALD W. BAKER LEVEL II CERTIFIED DESIGN PROFESSIONAL

4/28/2022 **STAMP 2**

2022.

4/28/2022 DATE

| Project Name | SWCD: BLUE RIDGE MOUNTAIN UNION COUNTY FIRE STATION Address: HARBOR BLVD. |
|--------------------------|--|
| City/County: | BLAIRSVILLE, UNION COUNTY Date on Plans: 4/6/2022 |
| Name & emai | l of person filling out checklist: DONALD BAKER dbakerala@gmail.com |
| Plan Included Page # Y/N | TO BE SHOWN ON ES&PC PLAN |
| EC2 Y | 1 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. |
| | (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) |
| ALL Y | 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed) |
| C1 Y | 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 mu include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.) |
| C1 Y | 4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls. |
| EC1 Y | 5 Provide the name, address, email address, and phone number of primary permittee. |
| EC1 Y | 6 Note total and disturbed acreages of the project or phase under construction. |
| EC1 Y | 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. |
| EC1 Y | 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revision |
| EC1 Y | 9 Description of the nature of construction activity and existing site conditions. |
| EC1 Y | 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary |
| C1 Y | 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected. |
| C1 Y | 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. |
| EC1 Y | 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of PMPs and compling to most permit requirements as stated on Part IV page 10 of the |
| EC1 Y | and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation 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. * |
| EC1 Y | 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." |
| EC1 Y | 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. |
| EC1 Y | 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." * |
| EC1 Y | 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." * |
| EC1 Y | 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." |
| EC1 Y | 20 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." |
| EC1 Y | 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." |
| EC1 Y | 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. * |
| EC1 Y | 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. * |
| EC1 Y | 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. * |
| EC1 Y | 25 Provide BMPs for the remediation of all petroleum spills and leaks. |
| EC1 Y | 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. * |
| EC1 Y | 27 Description of practices to provide cover for building materials and building products on site. * |
| EC1 Y | 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. * |
| EC1 Y | 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). |
| EC1 Y | 30 Provide complete requirements of Inspections and record keeping by the primary permittee. * |
| EC1 Y | 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. * |
| EC1 Y | 32 Provide complete details for Retention of Records as per Part IV.F. of the permit. * |
| | |

EC1 Y 33 Description of analytical methods to be used to collect and analyze the samples from each location. *

EC1 Y 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which

EC1 Y 36 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

EC1 Y 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *

storm water is discharged. *

all of the BMPs into a single phase. *

| <u>* </u> | Main Carala | contour lines with con Ground Slope | tour lines drawn at an ir Contour Intervals, ft. | terval in accordance with the follo | owing: |
|--|---|--|--|---|--------------------------------------|
| | 1 inch = 100ft or larger scale | Flat 0 - 2% Rolling 2 - 8% Steep 8% + | 0.5 or 1 1 or 2 2,5 or 10 | | |
| N/A | conventional BMPs as | certified by a Design on Commission). Pleas | Professional (unless dis | to be equivalent to or superior to approved by GAEPD or the George BMP Guidance Document found | • |
| N/A | 40 Use of alternative BMF for Erosion & Sedimen | • • | • | ease refer to Appendix A-2 of the | Manual |
| N/A NONE | | | | djacent to state waters and any a eate all areas of impact. | dditional |
| N/A NONE | 42 Delineation of on-site | wetlands and all state | waters located on and w | ithin 200 feet of the project site. | |
| EC2 Y | 43 Delineation and acrea | ge of contributing drair | nage basins on the proje | ct site. | |
| * Y | 44 Provide hydrology stud | dy and maps of draina | ge basins for both the pi | e- and post-developed conditions | s. * |
| * Y | 45 An estimate of the run completed. | off coefficient or peak | discharge flow of the site | e prior to and after construction a | ctivities are |
| C3, EC4 Y | 46 Storm-drain pipe and verosion. Identify/Deline | • • | • | n to accommodate discharges wit | :hout |
| EC2 Y | 47 Soil series for the proje | ect site and their deline | eation. | | |
| EC3-5 Y | 48 The limits of disturban | ce for each phase of c | onstruction. | | |
| EC4 Y | retrofitted detention po storage volume must be site has been achieved sediment basin is not a | nd, and/or excavated in the in place prior to and in the in place prior to and in the include in | nlet sediment traps for e during all land disturba explaining the decision uded in the Plan for eac | rained using a temporary sedime each common drainage location. Some activities until final stabilization to use equivalent controls when a the common drainage location in well bic yards of storage is not attainage. | Sediment on of the a hich a |

48 The limits of disturbance for each phase of construction.

49 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 Plan.

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

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

* Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set

*DETAIL SHEETS forth in the Manual for Erosion and Sediment Control in Georgia.

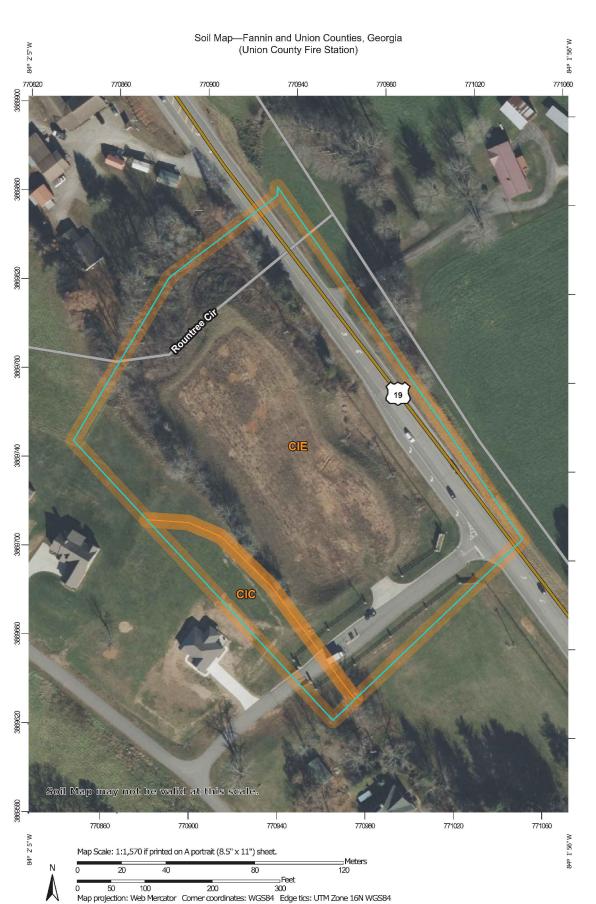
EC1-2 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting

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

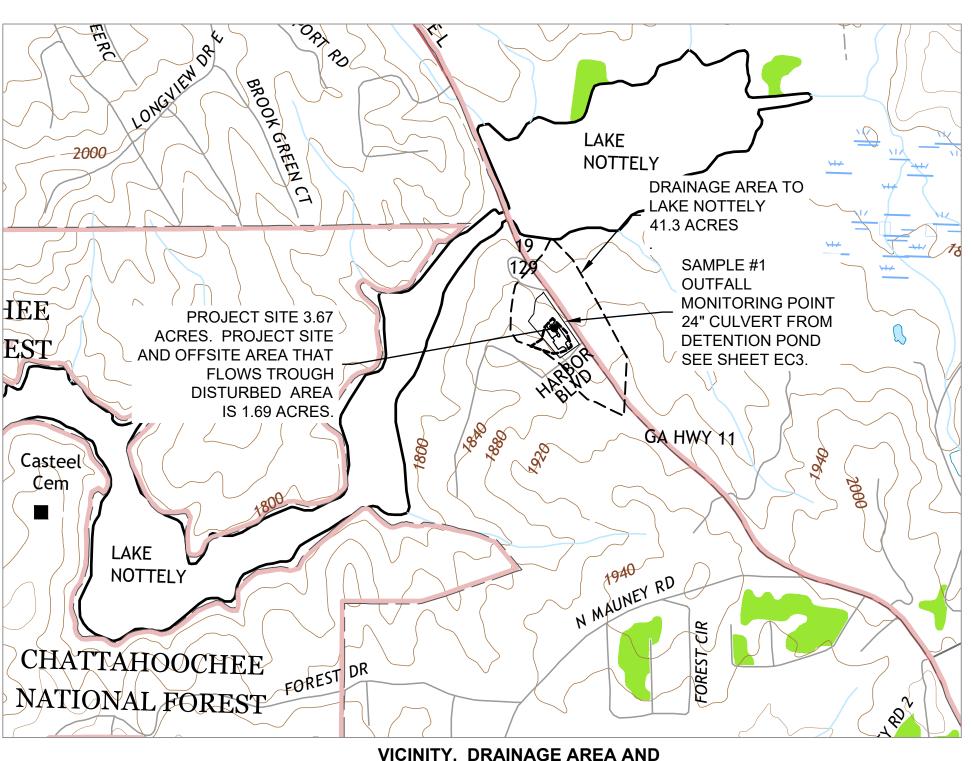
but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2022



Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|--|--------------|----------------|
| CIC | Clifton-Evard complex, 6 to 10 percent slopes | 0.5 | 8.3% |
| CIE | Clifton-Evard complex, 10 to 25 percent slopes | 5.6 | 91.7% |
| Totals for Area of Interest | | 6.1 | 100.0% |



VICINITY, DRAINAGE AREA AND RECEIVING WATER SAMPLING LOCATION MAP 1" = 1000'

| Monitoring Site | Primary of Alternate Site | Location Description | Name of Receiving Water | Applicable Construction Phase | Sampling Type (Outfall or Receiving Water | Drainage Area for Receiving Water (Sq Mi) | Disturbed Area (AC) | Warm or Cold Water Stream | (Outfall | Allowable NTU increase (for Receiving |
|---------------------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|---|---|---------------------------|---------------------------------|----------------|---------------------------------------|
| UNION CO. FIRE STATION | Primary | Sample Location. #1 | Lake Nottely | All | Outfall | <5 | 1.31 | Warm | Monitoring) 75 | Water) N/A |

| | | | | - | AN | TIC | CIP | AT | ED | | | VIT | | CHI | ΕDI | JLE | | | | | | | | | | | _ | _ |
|--|---------|--|---|---|----|-----|----------|----------|----|----|---|-----|-----|-----|-----|-----|---|-----|---|---|---|---|---|-----------|---|---------|--------------|----------|
| ACTIVITY | MC 1 | | 1 | | | | 4 | | | TH | - | MC | TNC | H 4 | | | | H 5 | | 6 | | | | 1 7 4 | | ON 2 | | |
| INSTALL INITIAL EROSION CONTROL BMPS | | | | | | | | | | | | | _ | | | | | | | | | | | | | Ī | | Ť |
| CLEARING & GRUBBING | | | - | | | | | | | | | | | | Ť | | | | | | | | | | | T | T | Ť |
| GRADING | | | | | F | F | | | | | | | | | | | | | | | | | | | | Ι | Ι | I |
| APPLICATION OF TEMPORARY GRASSING | | | | F | I | F | | F | | | | | | | Ī | | | | | | | | | | | T | T | Ī |
| STORM | | | | | - | H | H | F | | | | | | | | | | | | | | | | | | Τ | Ι | I |
| BUILDING CONSTRUCTION | | | | | | T | <u> </u> | \vdash | | | | | | | Ŧ | + | | | | | | | | | | T | T | |
| FINAL PAVING | | | | | | | | | | | | | | | T | | | | | | _ | F | F | F | | T | T | T |
| MAINTENACE OF EROSION CONTROL MEASURES | | | | | - | Ŧ | H | F | F | | | | | + | Ŧ | + | Ŧ | | F | | | F | | | | 7 | | _ |
| APPLICATION OF PERMANENT GRASSING | | | | | | T | | | | | | | | | T | | | | | | | | | | | ╀ | T | Ť |
| FINAL LANDSCAPING | | | | | | | | | | | | | | | Ī | | | | | | | | | | • | 丰 | ┥ | |
| DISPOSITION OF SEDIMENT DEVICES | | | | | | | | | | | | | | | Ī | | | | | | | | | | | Ī | | <u> </u> |

JLCHING Ds1

ALL SLOPED AREAS TO BE MULCHED AND TEMPORARILY GRASSED WITH 2 1/2 TONS PER ACRE OF DRY STRAW.

TEMPORARY GRASSING Ds2

TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE GRASS, BROWN TOP MILLET, OR A GRASS SUITABLE TO THE AREA AND SEASON. FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND-FERTILIZER AT A RATE OF 500#/AC. AND LIME AT 2000#/ACRE. FERTILIZER MIXED GRADE SHALL BE 10-10-10. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY EXISTING SITE CONDITIONS.

SPECIES RATE PLANTING DATE

RYE GRASS-ANNUAL 40-50#/AC. AUGUST THRU MID-APRIL
BROWNTOP MILLET 30-40#/AC. APRIL THRU MID-JULY
RYE 160-170#/AC. MID-AUGUST THRU DECEMBER

PERMANENT GRASSING: Ds3

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING AND FERTILIZATION, SEEDING, AND MULCHING.

THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING NOT LESS THAN 4". FERTILIZER

AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND — FERTILIZER AT A RATE OF 1500#/AC. AND LIME AT 2000#/AC. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM BEING FREE OF ROCKS, CLODS, ROOTS, ETC. FERTILIZER MIXED GRADE SHALL BE EITHER 4—12—12; 6—12—12 OR 5—10—15. SEEDING SHALL BE DONE WITHIN 24 HOURS OF THE FERTILIZER APPLICATION, WEATHER PERMITTING. SEED SHALL BE UNIFORMLY SPREAD AT THE RATE SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA LEAVING APPROXIMATELY 25% OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHALL BE DOUBLED ON SIDE SLOPES 4:1 AND STEEPER.

SPECIES RATE

TALL FESCUE 50#/AC.

COMMON BERMUDA (HULLED) 10#/AC.

COMMON BERMUDA (UNHULLED) 10#/AC.

WEEPING LOVEGRASS 4#/AC.

PLANTING DATE

AUGUST THRU OCTOBER

MARCH THRU JUNE

OCTOBER THRU FEBRUARY

MARCH THRU JUNE

CHECKLIST #45

Pre-Developed Coeff. and Discharge C = 62.4 Q25 = 20.6 cfs Post Developed Coeff. and Discharge C = 65.6 Q25 = 23.8

DONALD W. BAKER
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NO. 12796

EXPIRES 8/1/2024

DATE NO. DESCRIPTION

7/18/2022 1 WATER LINE, GUTTER AND GUTTER DRAIN LINES, ADS DRAIN

LINE, AND SEPTIC LINE REVISIONS.

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DON BAKER ENGINEERING

89 GRANDWATER DRIVE
SUWANEE, GA 30024
770-403-4527

FIRE STATION FOR UNION COUNTY, GA

SHEET TITLE

DESIGN BY

DWB

DWB

DWB

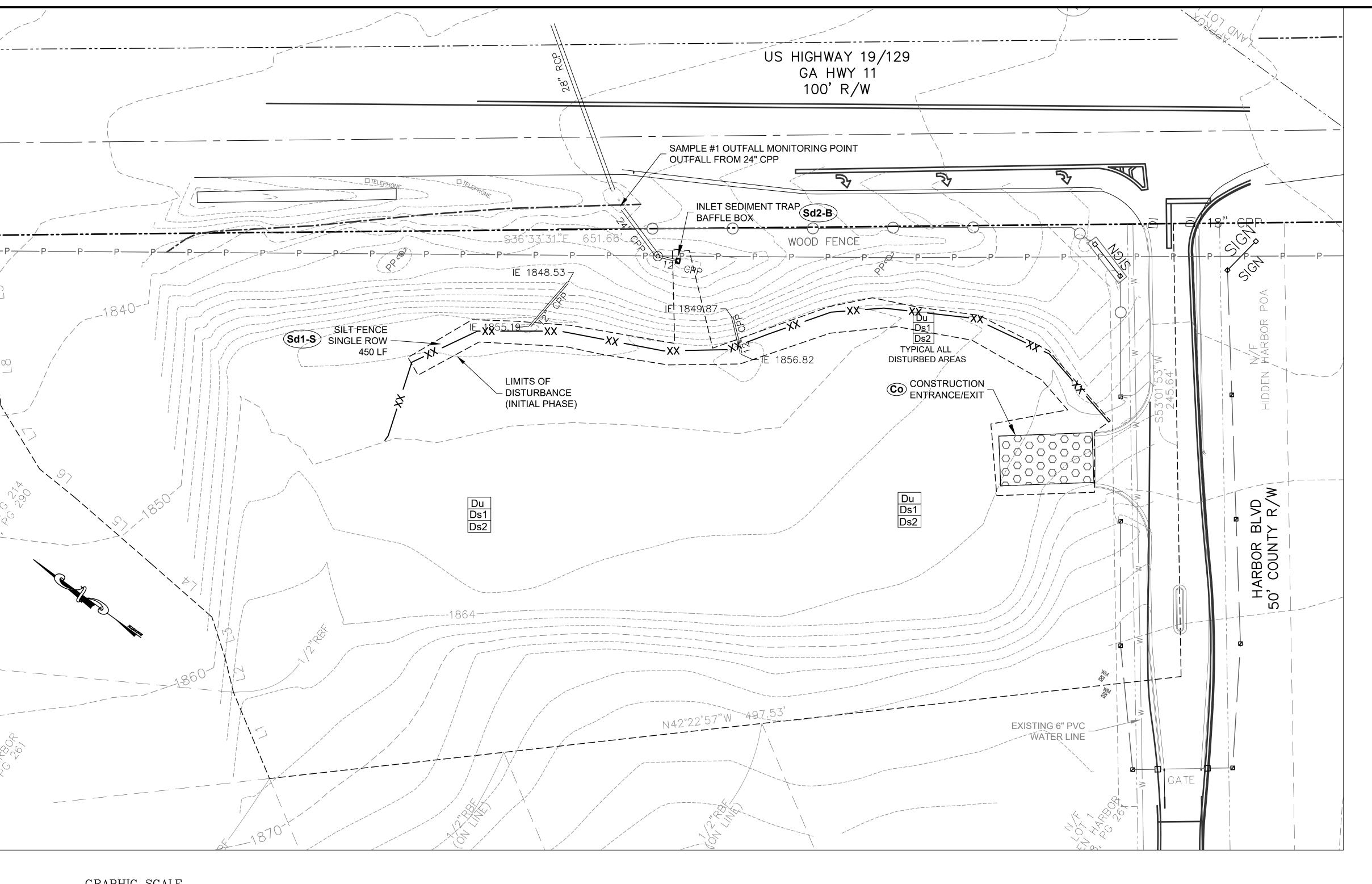
NO. 17628
PROFESSIONAL

4/28/2022

STAMP

DATE
DATE
JOB NUMBER
z: \projects
FILE LOCATION

EC2



EROSION CONTROL NOTES

- 1. NO BUFFER VARIANCES WILL BE REQUIRED AS PART OF THIS PROJECT.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- 3. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 4. MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
- 5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.
- 6. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- 7. AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED. ALL TEMPORARY AND PERMANENT GRASSING SHALL BE HYDROSEEDED.
- 8. SEE DETAIL SHEETS FOR EROSION BMP INSTALLATION.
- CONTRACTOR SHALL CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVEN OF 0.5 INCHES OR GREATER WITHIN ANY 24 HR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.6.D. OF THE NPDES PERMITS.

SEDIMENT STORAGE CALCULATIONS

TOTAL ONSITE AND OFFSITE DRAINAGE AREA

TOTAL ONSITE AND OFFSITE DRAINAGE AREA
THAT FLOWS THROUGH THE DISTURBED AREA IS: 1.67 ACRES

INITIAL PHASE DISTURBED AREA IS 0.19 ACRES.
REQUIRED SEDIMENT STORAGE

1.67 ACRES DRAINED X 67 CY/AC = 111.9 CY

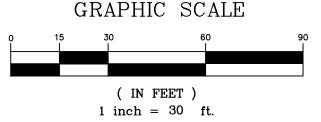
EXISTING DETENTION POND STORAGE:

VOLUME OF POND FOR SEDIMENT STORAGE IS FROM CONTOUR 1838 TO CONTOUR 1842. AREA OF CONTOUR 1840 IS 502 SF. USING 1840 CONTOUR AS AVERAGE AREA, VOLUME IS 502 SF X 4 FT = 2008 CF = 74 CY STORAGE

450 LF SILT FENCE X 0.09 CY/LF = $\underline{41}$ CY

TOTAL SEDIMENT STORAGE = 114 CY

= 41 CY 4 CY





Knew what's below. Call before you dig.

UTILITY DISCLAIMER

IN ADDITION TO SHOWING THE STRUCTURES TO BE BUILT UNDER THIS CONTRACT, THE DRAWINGS SHOW CERTAIN INFORMATION OBTAINED BY THE ENGINEER REGARDING THE PIPES, POLE LINES, CONDUITS, AND OTHER STRUCTURES WHICH EXIST ALONG THE LINE OF THE WORK, BOTH AT AND BELOW THE SURFACE OF THE GROUND. THE ENGINEER AND THE OWNER EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION GIVEN ON THE DRAWINGS WITH REGARD TO EXISTING STRUCTURES, AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY EXTRA COMPENSATION ON ACCOUNT OF ANY INACCURACY OR INCOMPLETENESS OF SUCH INFORMATION, SAID STRUCTURES BEING INDICATED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, WHO MUST VERIFY THE INFORMATION TO HIS OWN SATISFACTION. THE GIVING OF THIS INFORMATION UPON THE CONTRACT DRAWINGS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL PIPES, CONDUITS, AND OTHER STRUCTURES. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO EXCAVATION SO AS TO PREVENT ANY DAMAGE TO THOSE SERVICES OR OTHER UTILITIES. ANY SUCH DAMAGES MUST BE REPAIRED WITHOUT DELAY AND THE COST OF SUCH REPAIRS MUST BE BORNE BY THE CONTRACTOR.

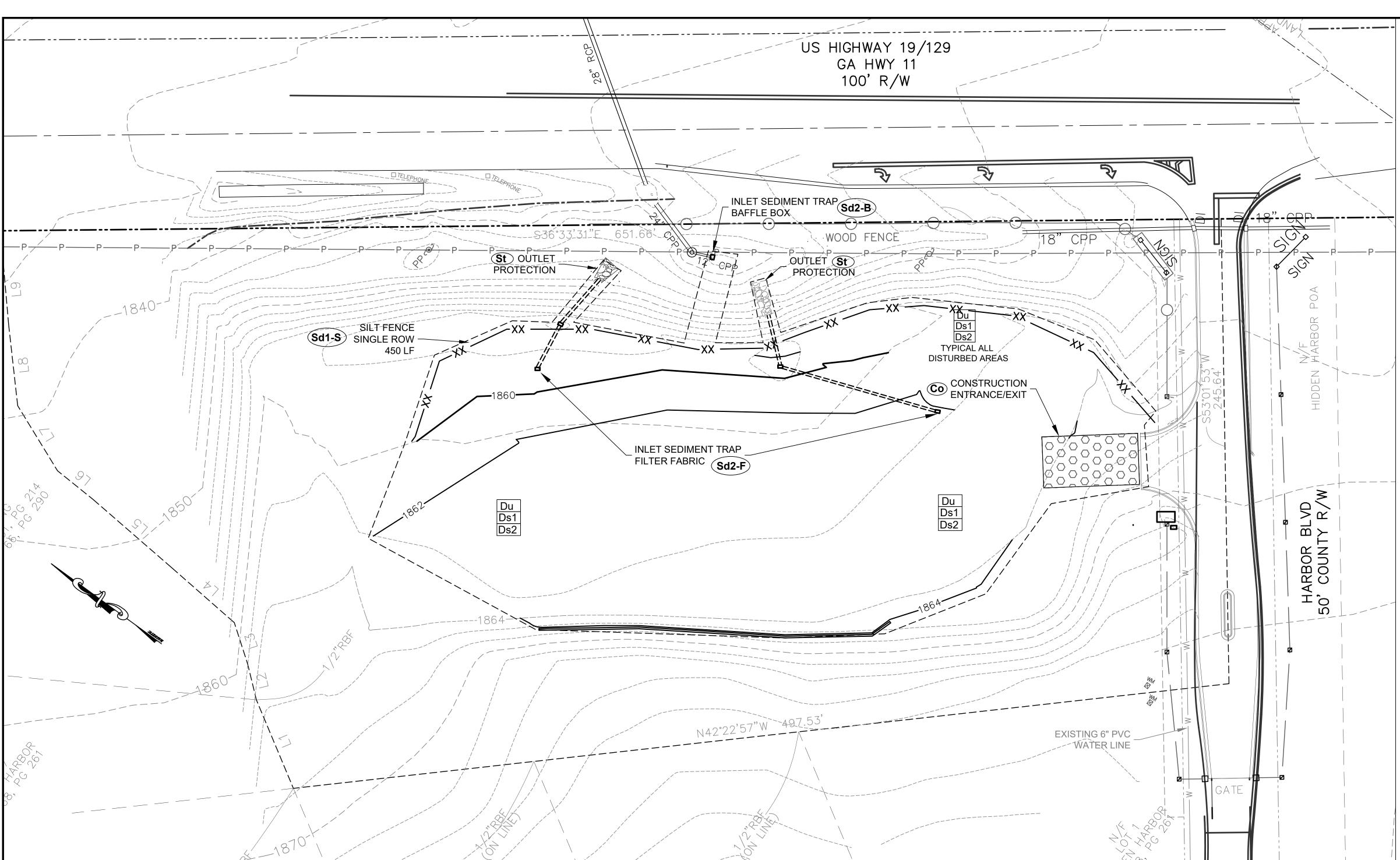
DONALD W. BAKER
LEVEL II CERTIFIED DESIGN PROFESSIONAL

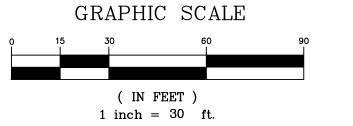
CERTIFICATION NO. 12796 EXPIRES 8/1/2024

| | DATE NO. | DESCRIPTION | © 2020 |
|-----------|---|--|---|
| | 7/18/2022 1 | WATER LINE, GUTTER AND GUTTER DRAIN LINES, ADS DRAIN | DON BAKER ENGINEERING LLCALL RIGHTS RESERVED |
| | | | THESE CONSTRUCTION DOCUMENTS AND |
| | | | PERMITTED REPRODUCTIONS, IN WHOLE OR IN PART, ARE INSTRUMENTS OF SERVICE AND |
| | | | ARE THE SOLE PROPERTY OF DON BAKER ENGINEERING LLC, UNLESS OTHERWISE ACCIDED TO THE OF THE OFFICE OFFI |
| | | | REPRODUCED TO: THE TO SHALL NOT BE REPOBLICED TO SHALL NOT BE NOW ANY OTHER NOR ARE THEY TO BE USED FOR ANY OTHER |
| | | | PROJECTS OTHER THAN THAT SPECIFICALLY INDICATED HEREIN WITHOUT WRITTEN |
| | | | PERMISSION FROM AND DUE COMPENSATION TO DON BAKER ENGINEERING LLC. |
| | | REVISION | |
| | | | |
| GA | DON BAKER ENGINEERING 89 GRANDWATER DRIVE SUWANEE, GA 30024 770-403-4527 | | DATE NO. DESCRIPTION 7/18/2022 1 WATER LINE, GUTTER AND GUTTER DRAIN LINES, ADS DRAIN LINE, AND SEPTIC LINE REVISIONS. REVISION |

STAMP

4/6/2022 DATE 2022.51 JOB NUMBER







NOTE: PIPE A & B ARE COMBINED WITH TOTAL OUTFALL FLOW SHOWN FROM PIPE B NOTE: PIPE C & D ARE COMBINED WITH TOTAL OUTFALL FLOW SHOWN FROM PIPE B

Know what's below.

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| RIPRAP APRON SUMMARY | | | | | | | | | | |
|----------------------|-------------------------|-----------------------|-------------------|------------------------|-------------------------|---------------------------|----------------------------------|--------------------------|--------------------------|-----------------|
| PIPE ID | PIPE DIAMETER (d) | FLOW RATE (cfs) | VELOCITY (fps) | TAILWATER CONDITION | APRON LENGTH (La) | WIDTH UPSTREAM (W1) | WIDTH DOWNSTREAM (W=Do+La) | RIP RAP SIZE (d50) | RIP RAP DEPTH (in) | RIP RAP TYPE |
| PIPE A & B | 18" | 2.72 | 2.05 | MIN | 10' | 5' | 12' | 4" | 18" | DOT TYPE 3 |
| PIPE C & D | 18" | 6.45 | 4.50 | MIN | 20' | 5" | 14' | 4" | 18" | DOT TYPE 3 |

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EROSION CONTROL NOTES

- 1. CLEAN SEDIMENT OUT OF SILT FENCE WHEN IT ACCUMULATES TO 1/2 OF THE TOTAL HEIGHT.
- 2. CLEAN SEDIMENT OUT OF TEMPORARY SEDIMENT TRAP WHEN 1/3 SEDIMENT STORAGE VOLUME IS REACHED.
- SEE SHEET D1 FOR EROSION CONTROL DETAILS.
- 4. Sd4-F IS TO REMAIN IN PLACE UNTIL SITE PAVING IS COMPLETE. ONCE SITE WORK IS COMPLETE REMOVE Sd4-F AND RE-GRASS AS NEEDED.
- 5. SILT FENCE AND Sd2B IS TO REMAIN IN PLACE UNTIL PERMANENT GRASSING IS ESTABLISHED.

SEDIMENT STORAGE CALCULATIONS

TOTAL SITE AREA: 3.67 ACRES TOTAL ONSITE AND OFFSITE DRAINAGE AREA THAT FLOWS THROUGH THE DISTURBED AREA IS: 1.67 ACRES

INTERMEDIATE PHASE DISTURBED AREA IS 1.31 ACRES. REQUIRED SEDIMENT STORAGE 1.67 ACRES DRAINED X 67 CY/AC = 111.9 CY

EXISTING DETENTION POND STORAGE: VOLUME OF POND FOR SEDIMENT STORAGE IS FROM CONTOUR 1838 TO CONTOUR 1842. AREA OF CONTOUR 1840 IS 502 SF. USING 1840 CONTOUR AS AVERAGE AREA, VOLUME IS 502 SF X 4 FT = 2008 CF = 74 CY STORAGE

400 LF SILT FENCE X 0.09 CY/LF = 36 CY

2 INLET SEDIMENT TRAPS X 16 = 32 LF X 0.09 CY/LF = 2.9 CY

TOTAL SEDIMENT STORAGE = 1,129 CY

E STATION FOR COUNTY, C UNION

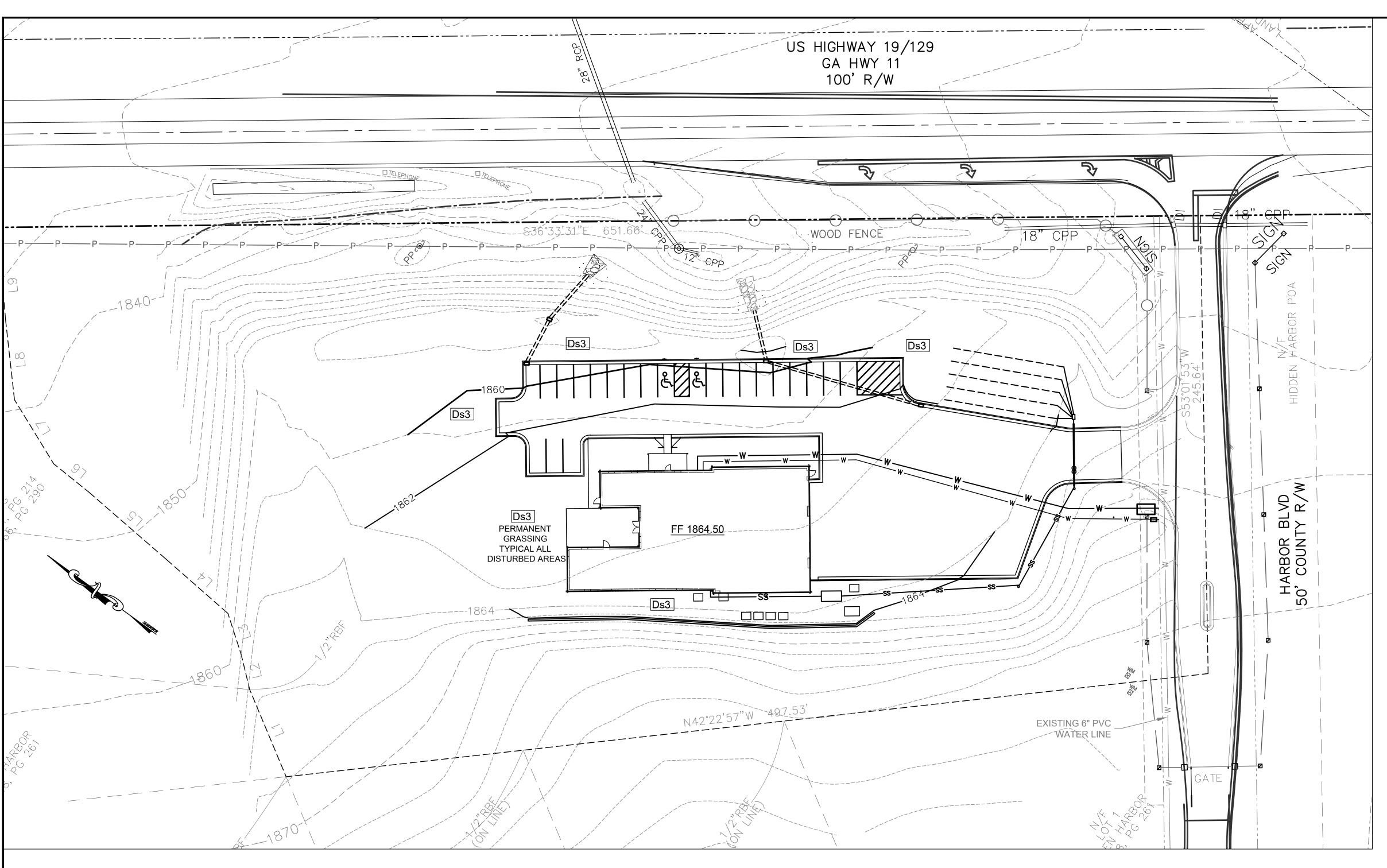
INTERMEDIATE ESPC PLAN SHEET TITLE

4/28/2022 STAMP

4/6/2022

DONALD W. BAKER LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION NO. 12796

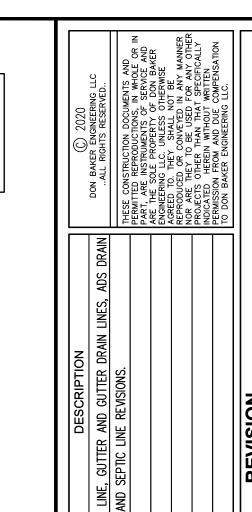
EXPIRES 8/1/2024



AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, AS DETERMINED BY THE SITE INSPECTION BY THE ENGINEER OF RECORD, ALL SILT FENCE, INLET SEDIMENT TRAPS AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED.

EROSION CONTROL NOTES

- 1. NO BUFFER VARIANCES WILL BE REQUIRED AS PART OF THIS PROJECT.
- 2. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- 3. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 4. MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
- 5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.
- 6. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- 7. AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED. ALL TEMPORARY AND PERMANENT GRASSING SHALL BE HYDROSEEDED.
- 8. SEE DETAIL SHEETS FOR EROSION BMP INSTALLATION.
- CONTRACTOR SHALL CONDUCT TURBIDITY SAMPLING AFTER EVERY RAIN EVEN OF 0.5 INCHES OR GREATER WITHIN ANY 24 HR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN SECTION IV.D.6.D. OF THE NPDES PERMITS.



DON BAKER ENGINEERING

89 GRANDWATER DRIVE
SUWANEE, GA 30024
770-403-4527

FIRE STATION FOR UNION COUNTY, GA

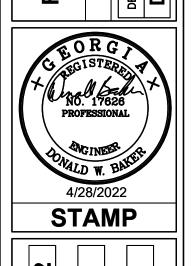
SHEET TITLE

DESIGN BY

DWB

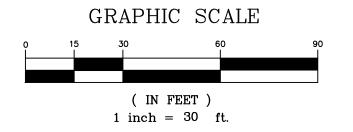
DWB

DWB



4/6/2022 DATE 2022.51 JOB NUMBER

EC5





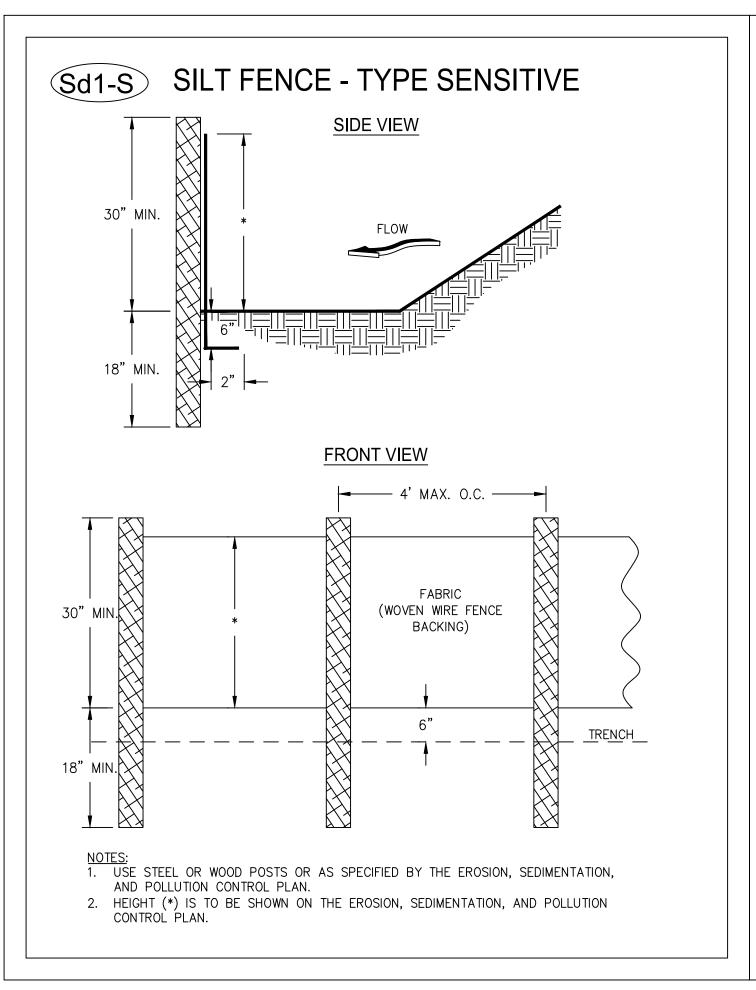
Know what's **below. Call before you dig.**

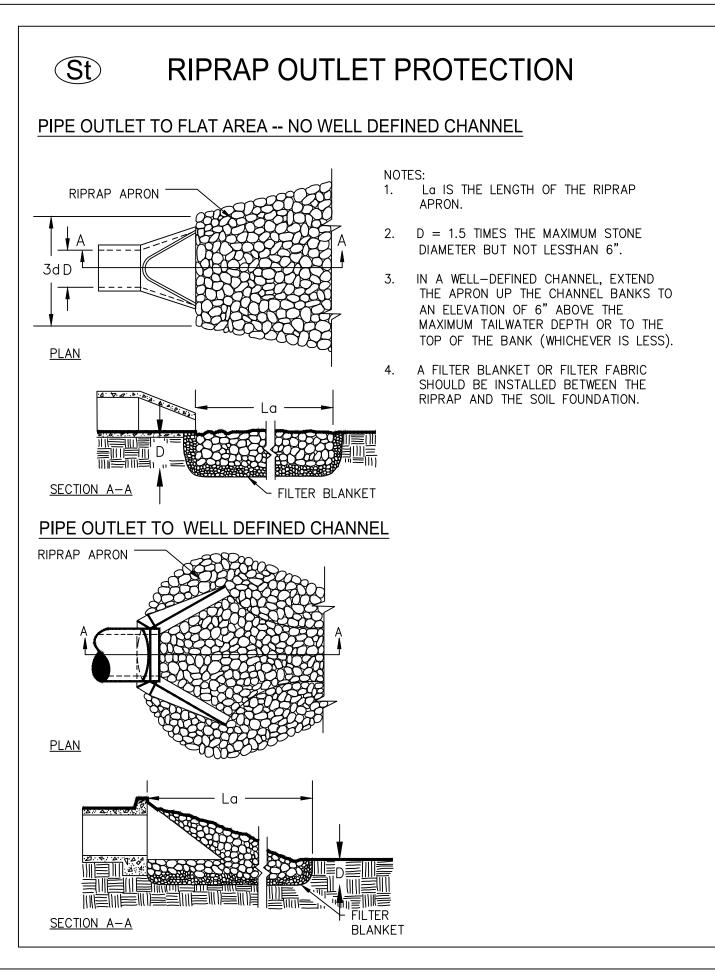
UTILITY DISCLAIMER

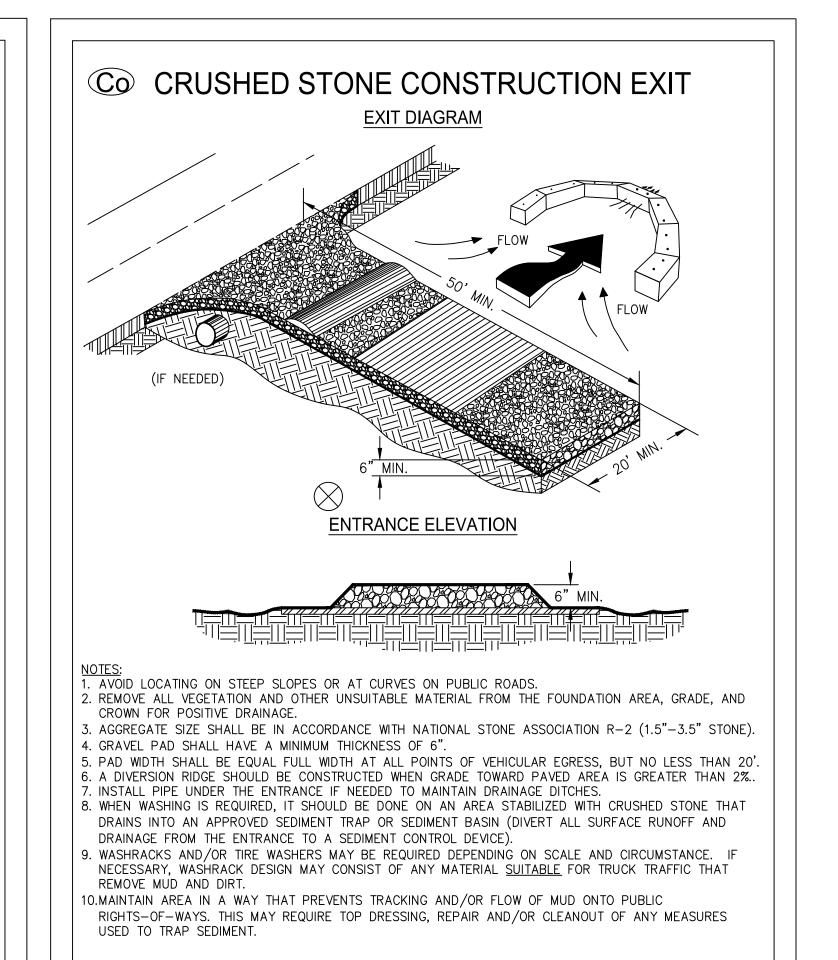
IN ADDITION TO SHOWING THE STRUCTURES TO BE BUILT UNDER THIS CONTRACT, THE DRAWINGS SHOW CERTAIN INFORMATION OBTAINED BY THE ENGINEER REGARDING THE PIPES, POLE LINES, CONDUITS, AND OTHER STRUCTURES WHICH EXIST ALONG THE LINE OF THE WORK, BOTH AT AND BELOW THE SURFACE OF THE GROUND. THE ENGINEER AND THE OWNER EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION GIVEN ON THE DRAWINGS WITH REGARD TO EXISTING STRUCTURES, AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY EXTRA COMPENSATION ON ACCOUNT OF ANY INACCURACY OR INCOMPLETENESS OF SUCH INFORMATION, SAID STRUCTURES BEING INDICATED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, WHO MUST VERIFY THE INFORMATION TO HIS OWN SATISFACTION. THE GIVING OF THIS INFORMATION UPON THE CONTRACT DRAWINGS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL PIPES, CONDUITS, AND OTHER STRUCTURES. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO EXCAVATION SO AS TO PREVENT ANY DAMAGE TO THOSE SERVICES OR OTHER UTILITIES. ANY SUCH DAMAGES MUST BE REPAIRED WITHOUT DELAY AND THE COST OF SUCH REPAIRS MUST BE BORNE BY THE CONTRACTOR.

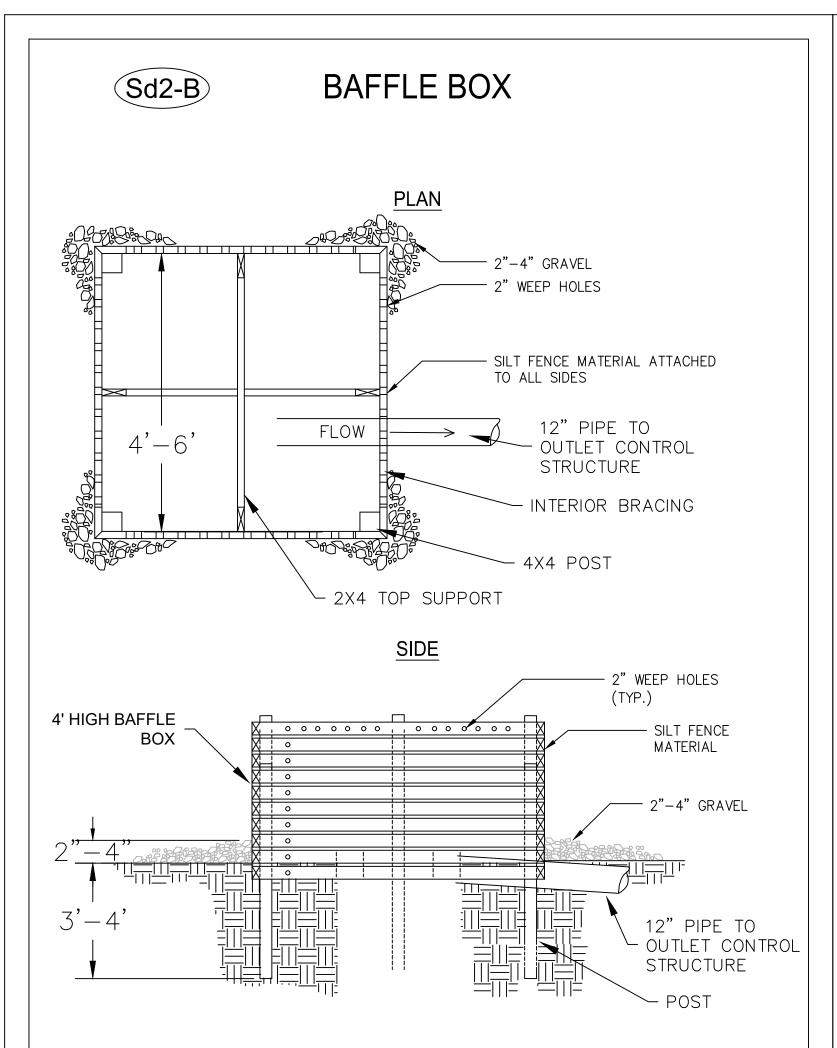
DONALD W. BAKER
LEVEL II CERTIFIED DESIGN PROFESSIONAL

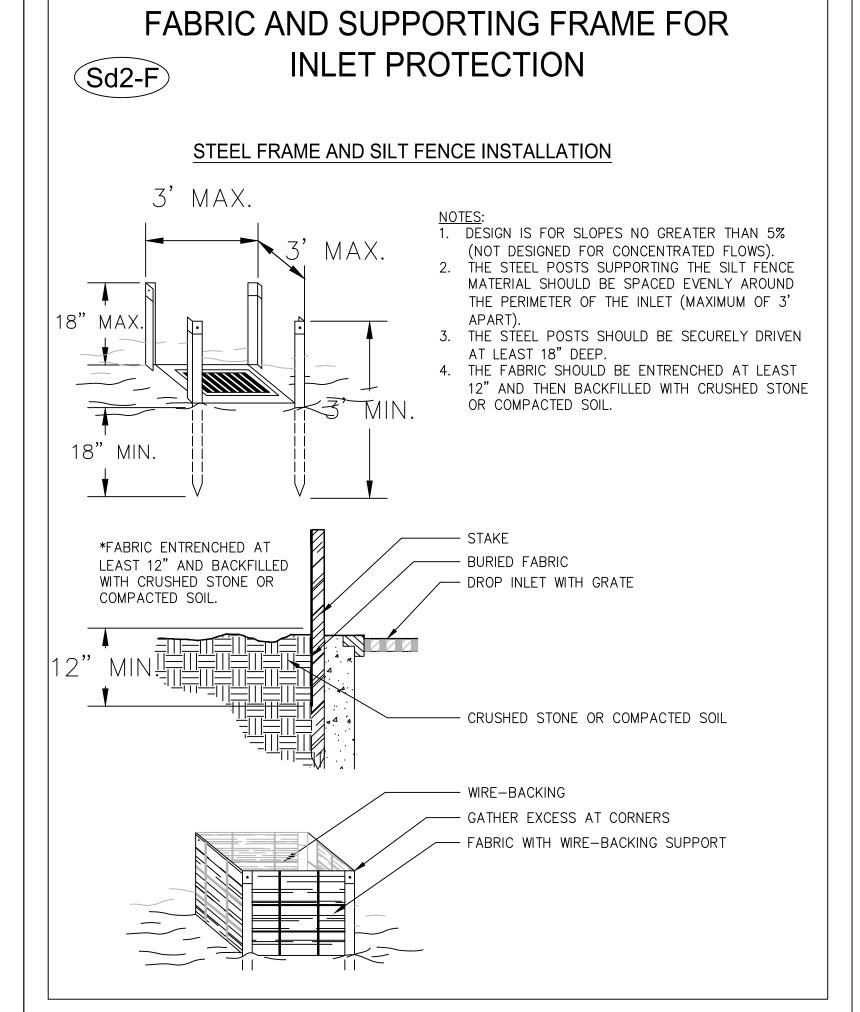
CERTIFICATION NO. 12796 EXPIRES 8/1/2024

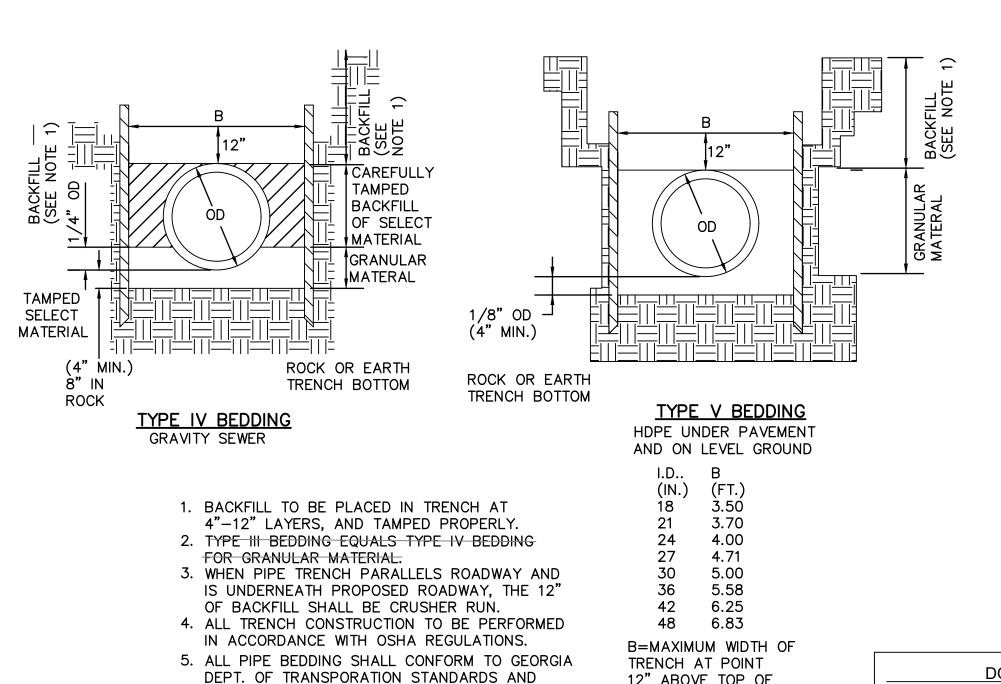












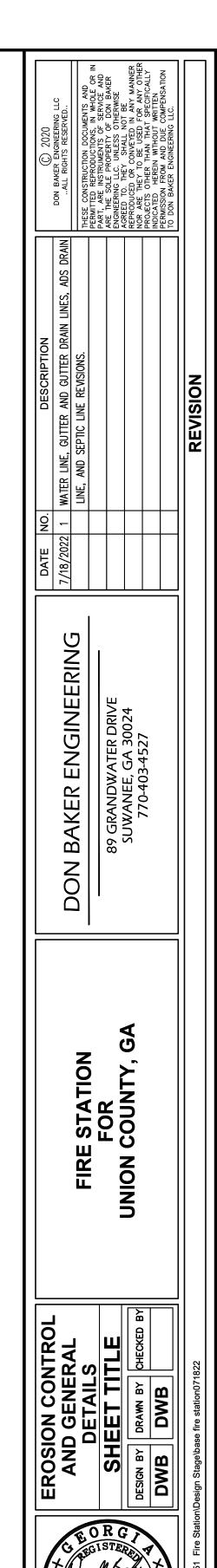
PIPE BEDDING DETAILS

SPECIFICATIONS.

12" ABOVE TOP OF PIPE.

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CERTIFICATION NO. 12796 EXPIRES 8/1/2024



NO. 17626
PROFESSIONAL

NO. 17626
PROFESSIONAL

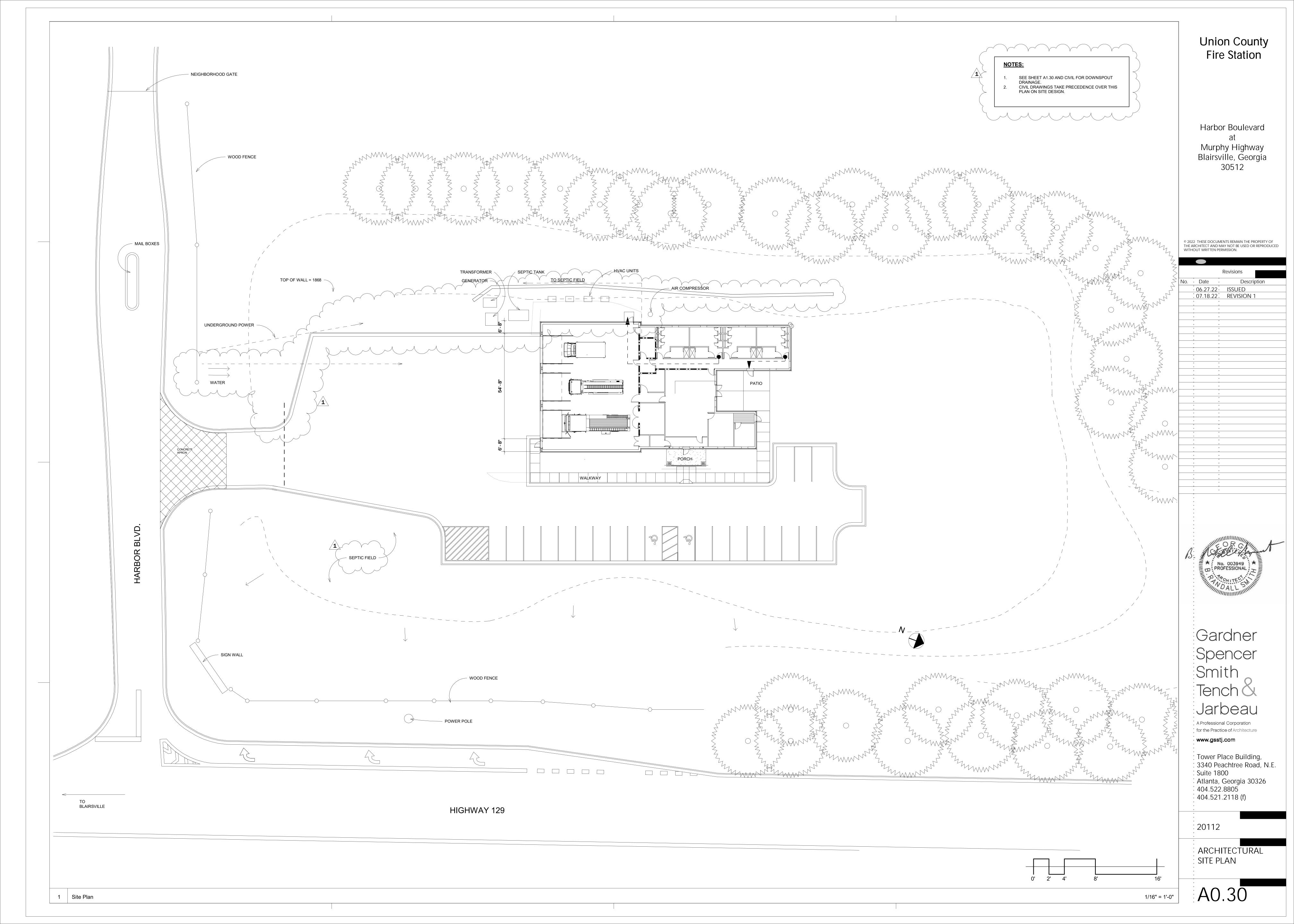
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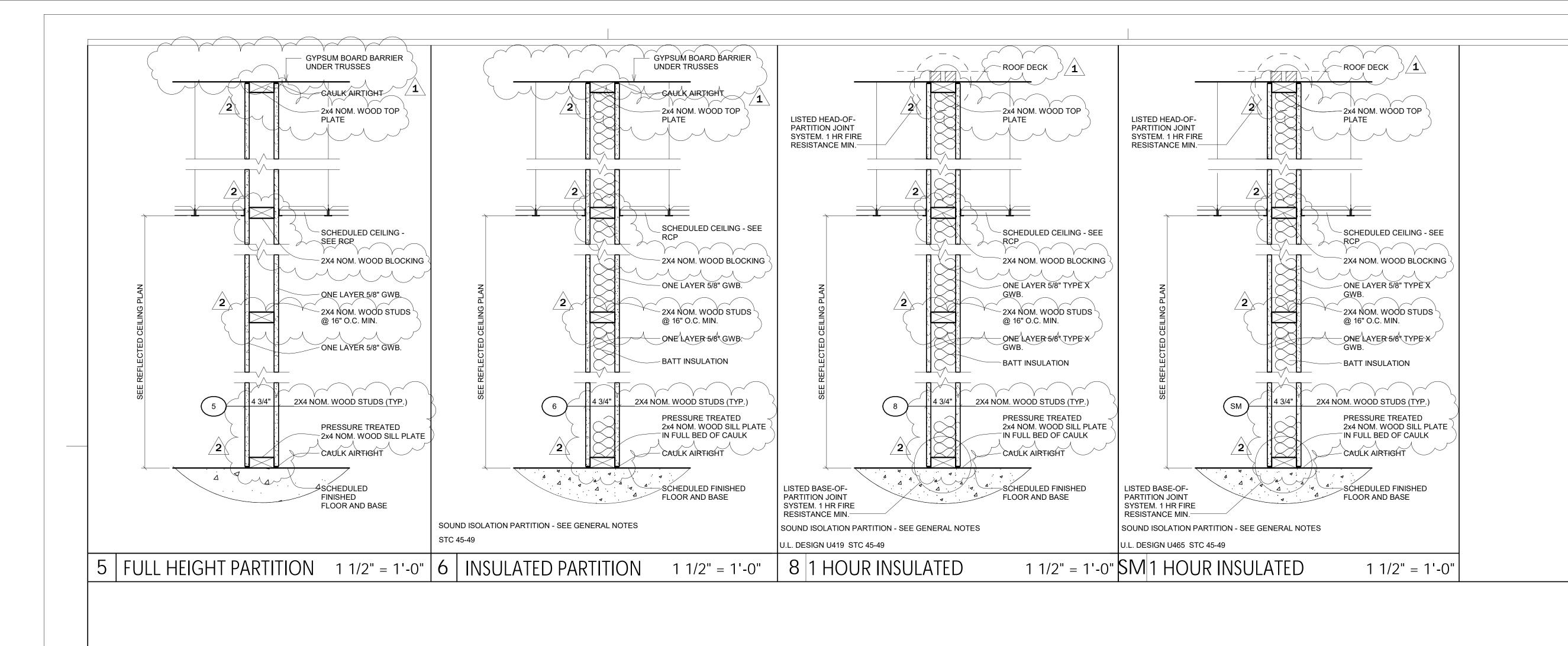
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4/28/2022
DATE
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JOB NUMBER

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FILE LOCATION

D1





EXTERIOR, WOOD FRAME LOAD BEARING

SCHEDULED METAL STUD AND GYPSUM

INTERIOR PARTITIONS WHICH ARE DESIGNATED AS

SOUND ISOLATION PARTITIONS SHALL TERMINATE AT

STUD FRAMED EXTERIOR WALLS AS SHOWN IN THIS

EACH SIDE OF THE SOUND ISOLATION PARTITION,

DETAIL. AT MINIMUM, ONE LAYER OF GYPSUM BOARD

AND THE BATT INSULATION THEREIN, SHALL EXTEND

SOUND ISOLATION PARTITION

TO THE SHEATHING.

A PLAN DETAIL

2'-0" MINIMUM

ELECTRICAL DEVICES PENETRATING OPPOSITE

FACES OF AN INTERIOR PARTITION WHICH IS

SHALL BE SEPARATED HORIZONTALLY FROM

DESIGNATED AS A SOUND ISOLATION

ANOTHER AS SHOWN IN THIS DETAIL.

PARTITION

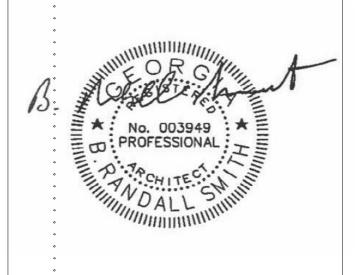
N.T.S. B PLAN DETAIL

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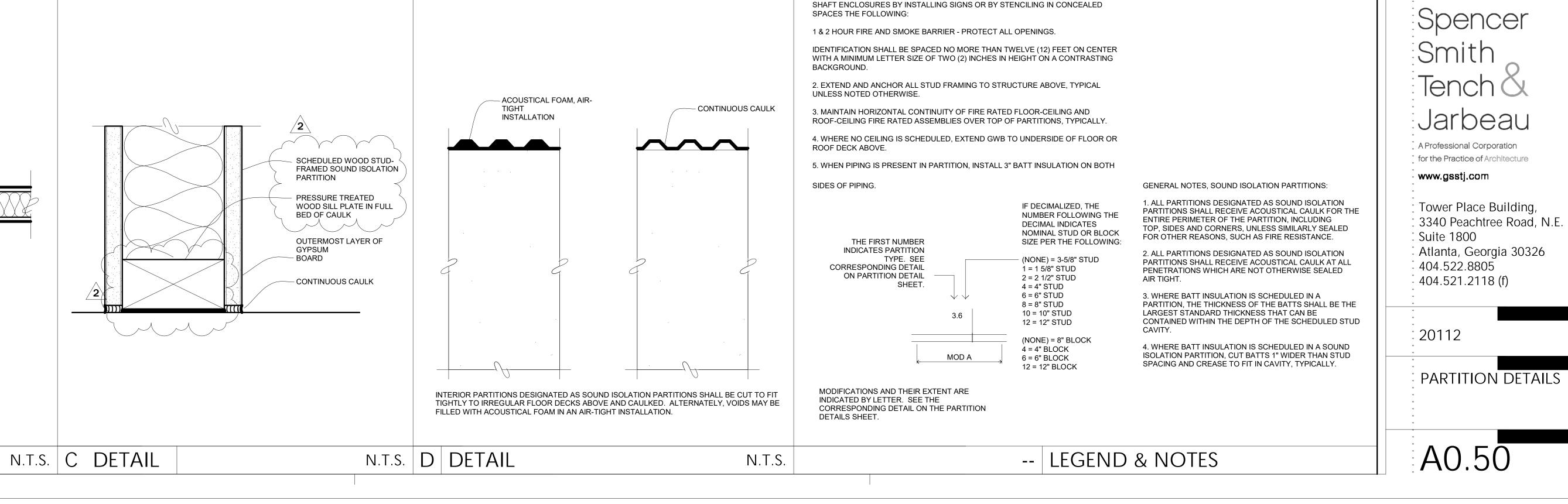
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| ı | No. | Date | Descrip | otion |
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| ı | 1 | 07.18.22 | Revisi | on 1 |
| ı | 2 | 08.30.22 | Revisi | on 2 |
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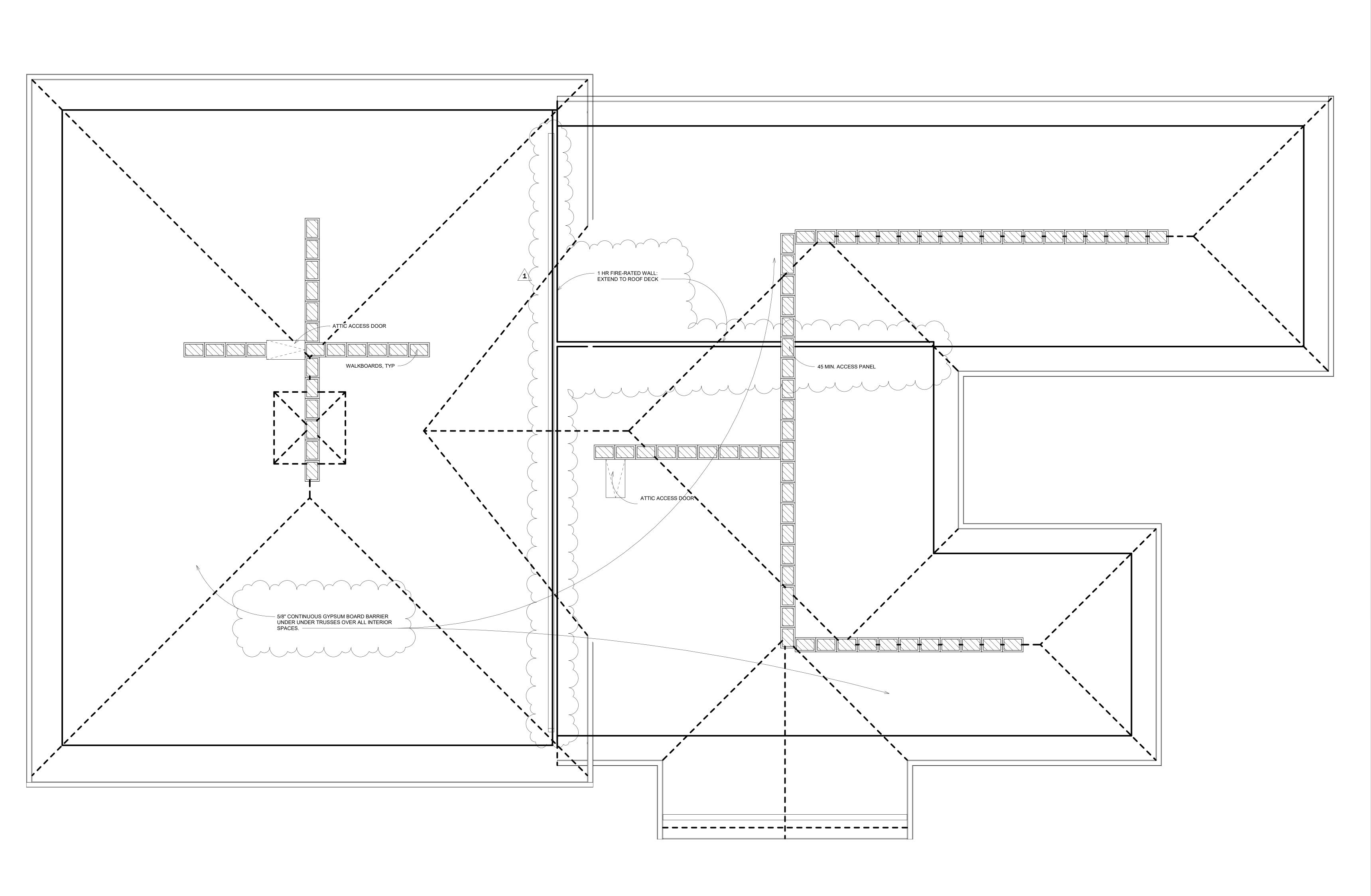
404.522.8805 404.521.2118 (f)



GENERAL NOTES, PARTITIONS:

1. 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, AND





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No. Date Description

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07.18.22 REVISION 1

No. 003949

No. 00

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20112

1/4" = 1'-0"

: ATTIC PLAN

\1.15

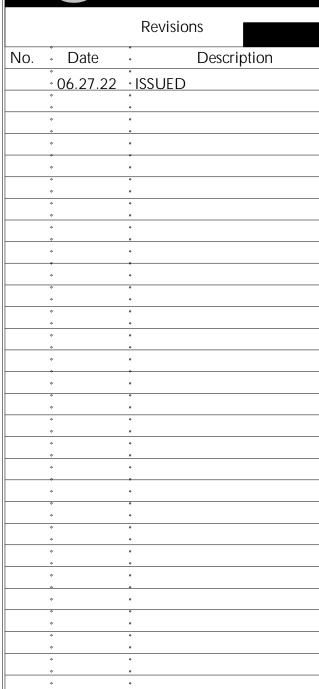
0, , 00 , 00 ATTIC ACCESS DOOR C 16' - 8" A 10' - 0" ATTIC ACCESS DOOR RCP LEGEND MATERIAL B. 13'-0" HEIGHT, A.F.F.,, U.N.O. SINGLE FACE EXIT
SIGN WITH ARROW 2FT. X 2FT. REGESSER LED DIGHT FIXTURE 2FT X 4FT ACOUSTICAL CEILING TYPE ACT-1 2FT. X 4FT. RECESSED LED LIGHT FIXTURE WALL MOUNTED LED LIGHT FIXTURE PRE-FINISHED METAL SOFFIT 404.521.2118 (f) EMERGENCY LIGHT FIXTURE GYPSUM BOARD CEILING EXTERIOR WALL MOUNTED LIGHT FIXTURE 8FT PENDANT LED LIGHT FIXTURE 2FT X 4FT ACOUSTICAL CEILING TYPE ACT-2 20112 4FT PENDANT LED LIGHT FIXTURE NOTES: 1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE PLAN

Reflected Ceiling Plan

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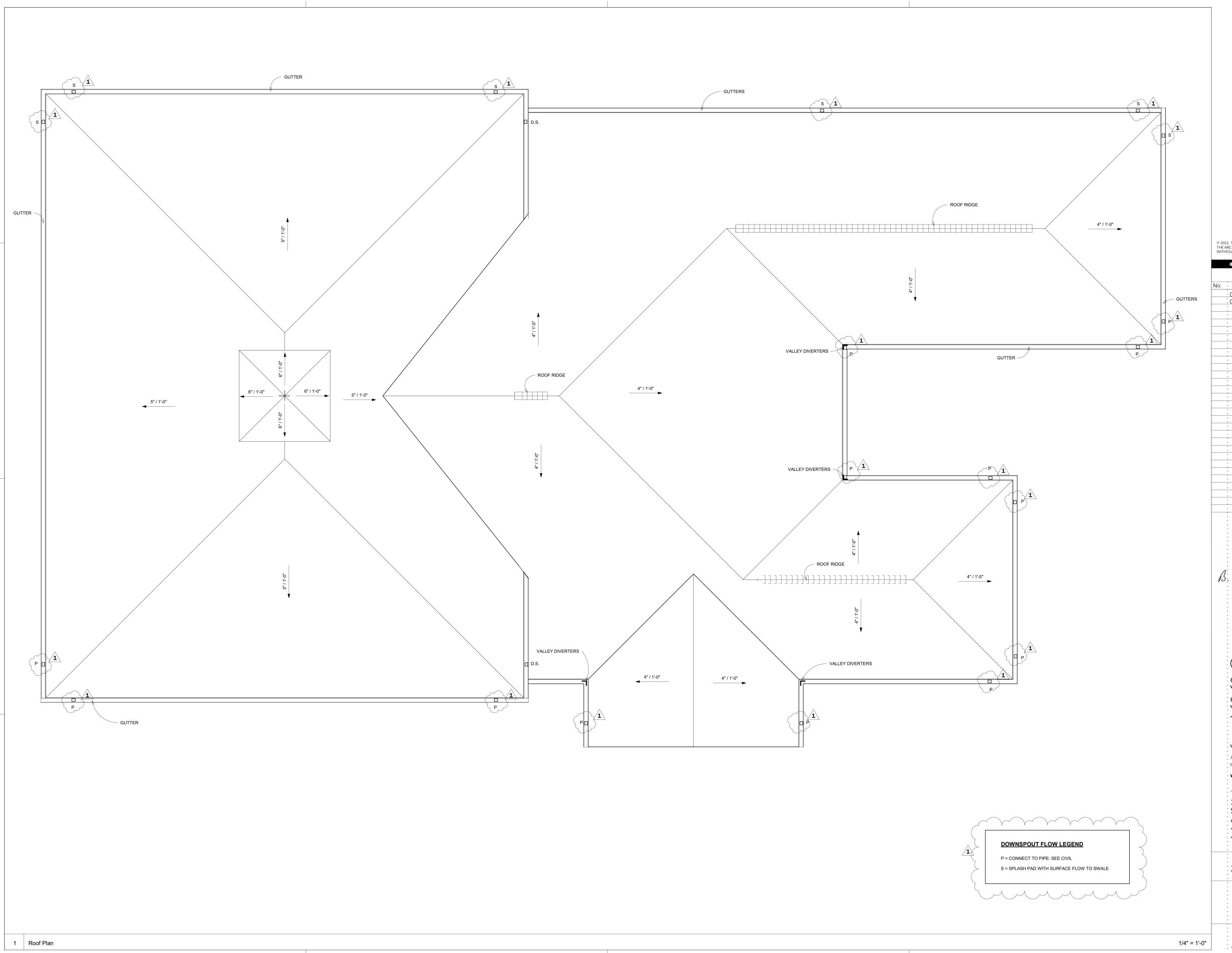


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REFLECTED CEILING

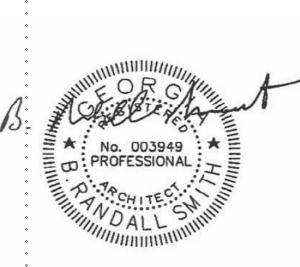


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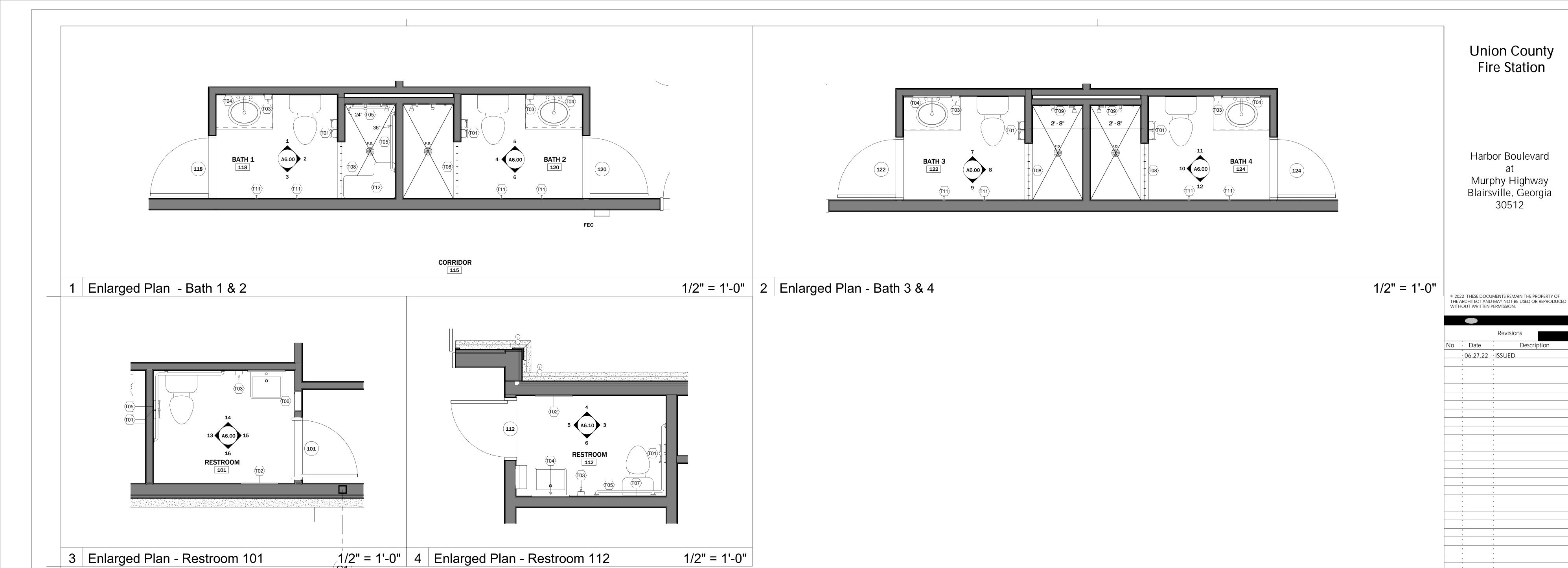
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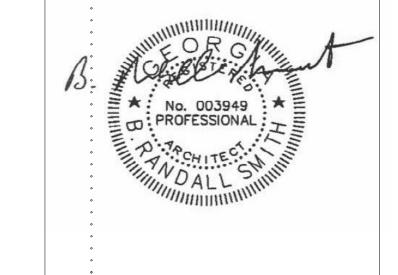
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ROOF PLAN

A1.30







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: : 20112

: ENLARGED PLANS

A1.40

| GENERAL NOTES, TOILET ROOMS: | 2501.00 | | | | | | | | | | | | |
|--|---|---|-------------------|------------------------|-----------|-----------------|-----|-------|----------------|-------|---------|--|--|
| 1. SIGNAGE FOR RESTROOMS SHALL BE RAISED AND BRAILLE CHA SYMBOL SIGNS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF T LEAF DOORS, SIGN SHALL BE PLACED ON THE NEAREST ADJACENT 60 INCHES MAX. ABOVE THE FINISH FLOOR TO THE CENTERLINE OF | THE DOOR, INCLUDING AT DOUBLE TWALL. MOUNTING HEIGHT SHALL BE 250 LBS 1 1/2" ADA and IBC 1 1/4" - 2" Georgia requires 2 1/ | NOTE: COORDINATE HEIGHTS WIT | H GRAB BARS AND S | SPECIFIED ACCESSORIES. | | | | | | | | TYF | TOI PE MARK |
| 11" MIN. 6" MAX. TOE | TI- 3" MIN. GRAB BAR REQUIREMENTS 12" MAX. 54" MIN. CLEAR FLOOR SPACE T-6" MIN. TISSUE DISPENSER | AT WHEELCHAIR ACCESSIBLE WATER 18" MAX. 12" MAX FLOOR LINE | WIN. | 6'-8" 3'-8" MAX. | "MAX. | 42" MAX 36" MAX | L | 4'-0" | 6'-6" 3'-8" | 5'-0" | 4'-0" # | T01 T02 T03 T04 T05 T06 T07 T08 T09 T10 | 24 W/A 24 GR GR W/A SE 36 RE |
| SECTION | <u>PLAN</u> | WATER CLOSETS | | | 7- 18- | 7 | | | | | | T10 T11 | |
| ALL LAVATORIES, WHETHER WALL-HUNG OR IN A COUNTER SHA INSTALLED TO COMPLY WITH THE CLEARANCES AND DIMENSIONS NOTED A ALL LAVATORIES SHALL BE EQUIPPED WITH SPECIFIED PIPE PRO ENCLOSURES INSTALLED TO MEET CLEARANCES DEFINED BY DA | WATER CLOSETS IN ACCESSIBLE STALLS AND WATER CLOSETS IN ACCESSIBLE TOILET ROOMS STECTION SHALL BE INSTALLED AS SHOWN UNLESS | | T01 | T02 T03 | T04 | T05 | T06 | Г07 Т | 08 T09 | T10 | T11 | T12 | |

INDICATED IN THE SECTION ABOVE.

5 Toilet Mounting Heights

1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

24" X 66" FRAMED MIRROR

24" X 36" FRAMED MIRROR

SEAT COVER DISPENSER

RECESSED SOAP DISH

ADA SHOWER SEAT

GRAB BARS

WASTE UNIT

MOP RACK
TOWEL HOOK

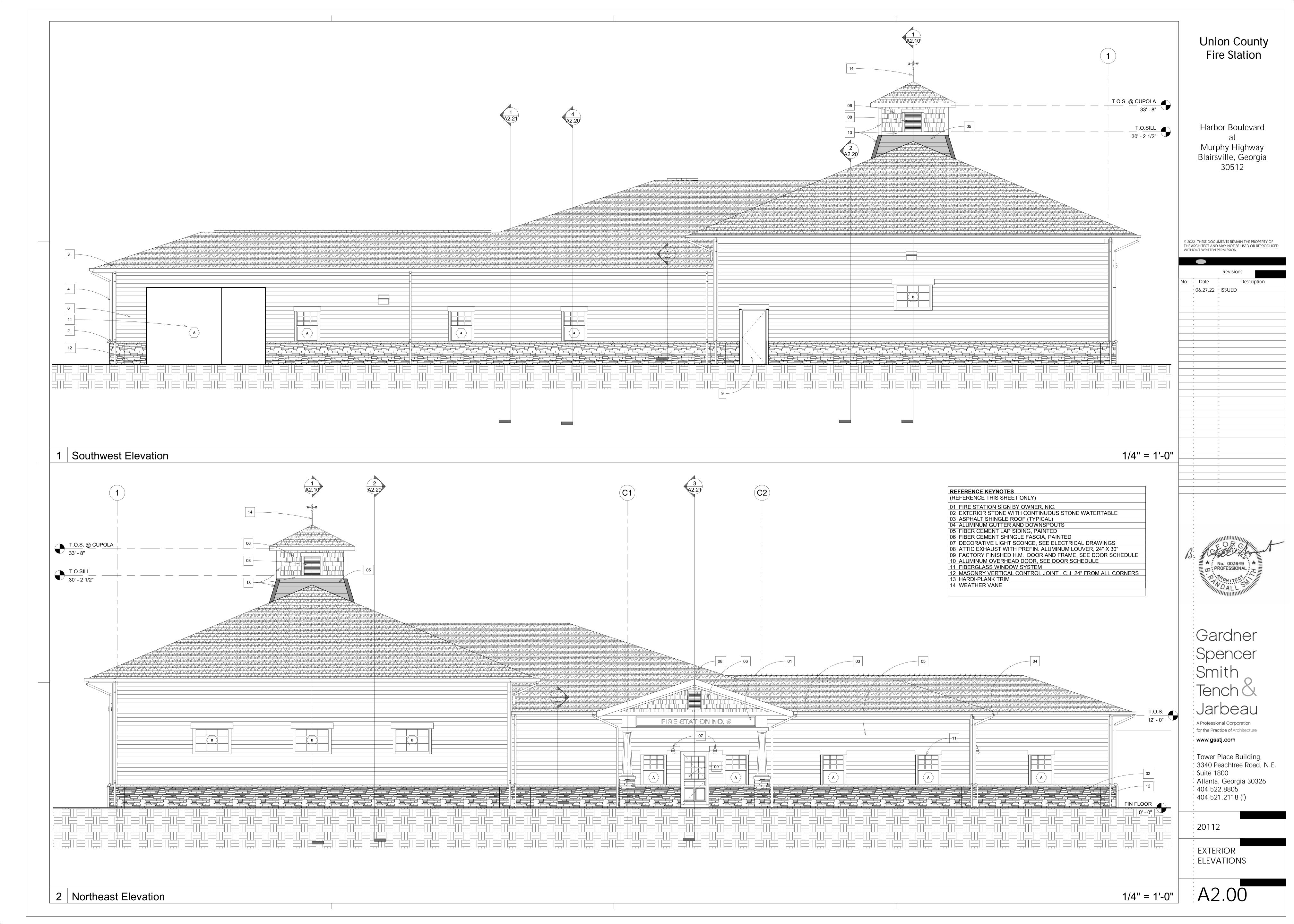
DESCRIPTION

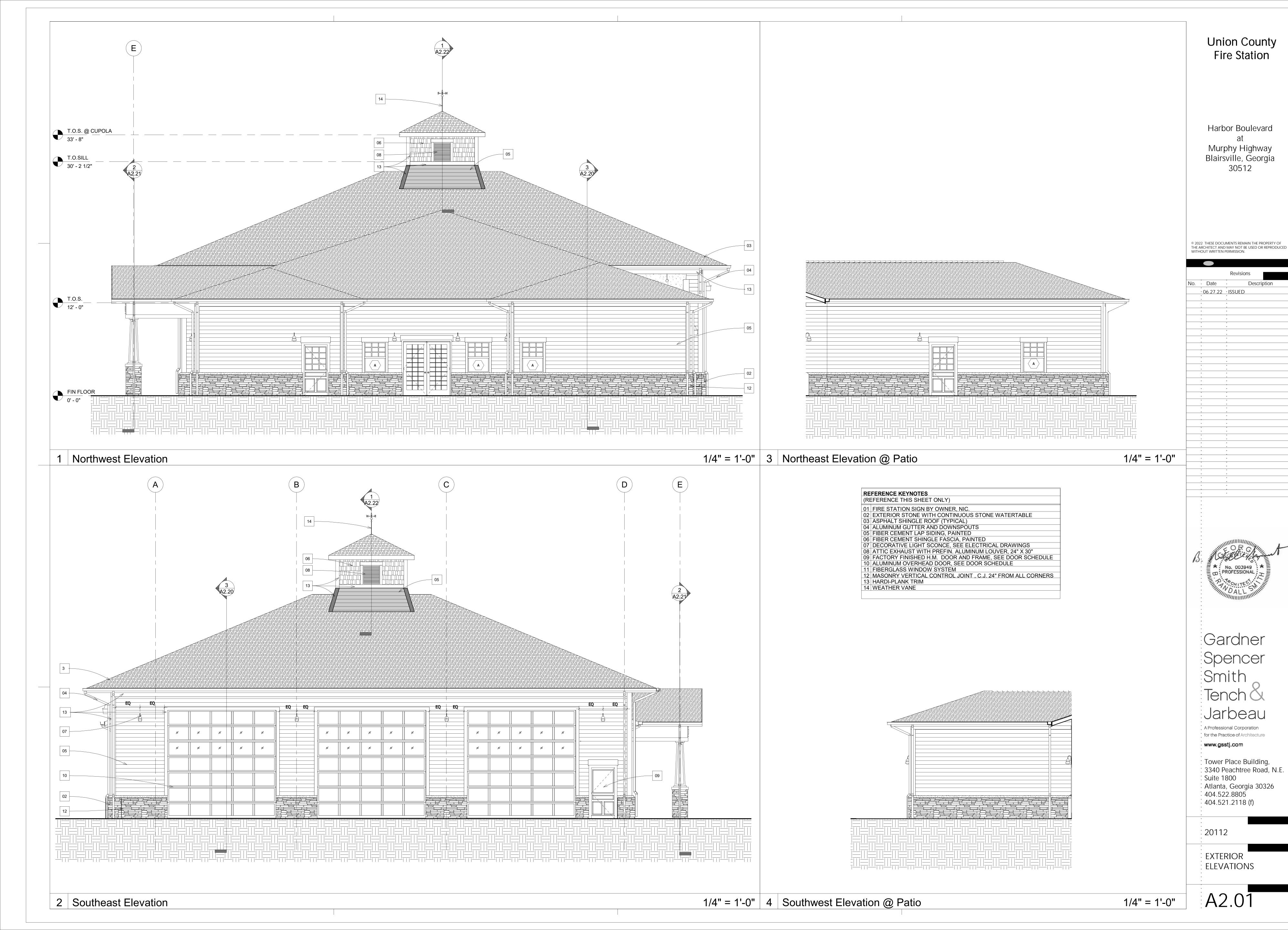
TWO ROLL TOILET PAPER DISPENSER

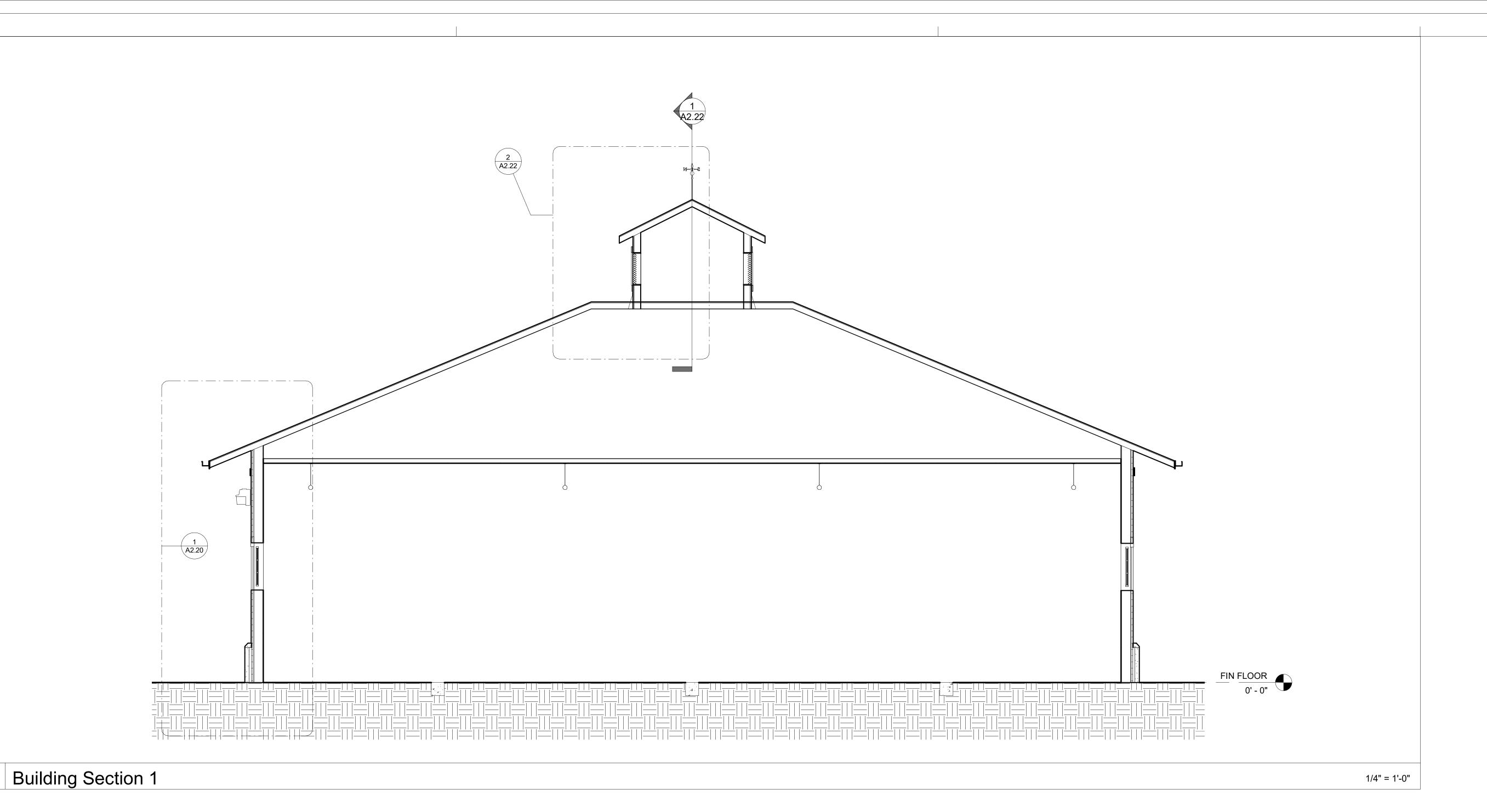
RECESSED COMBINATION TOWEL AND

36" WIDE VINYL SHOWER CURTAIN & ROD

WALL MOUNTED SOAP DISPENSER







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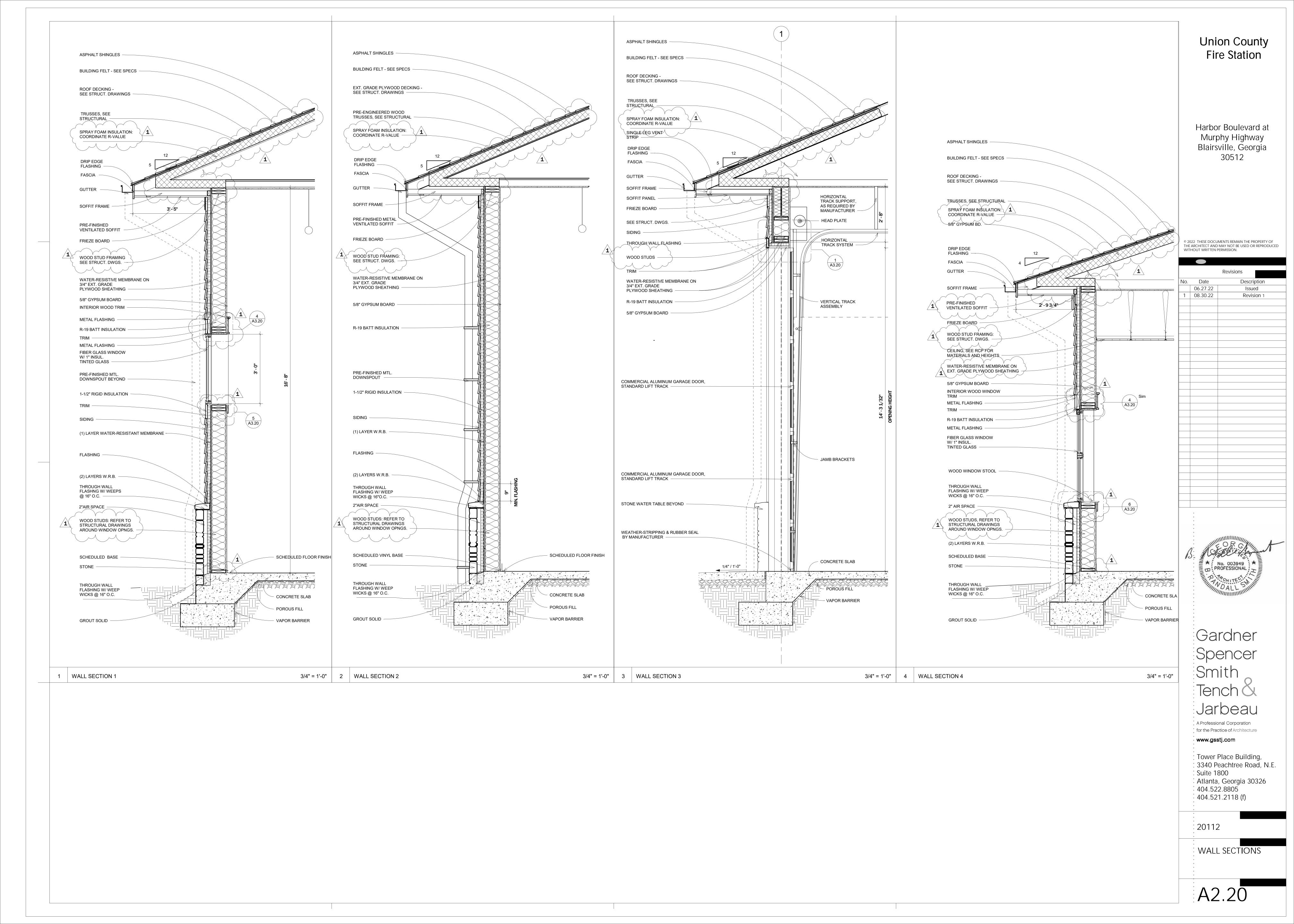
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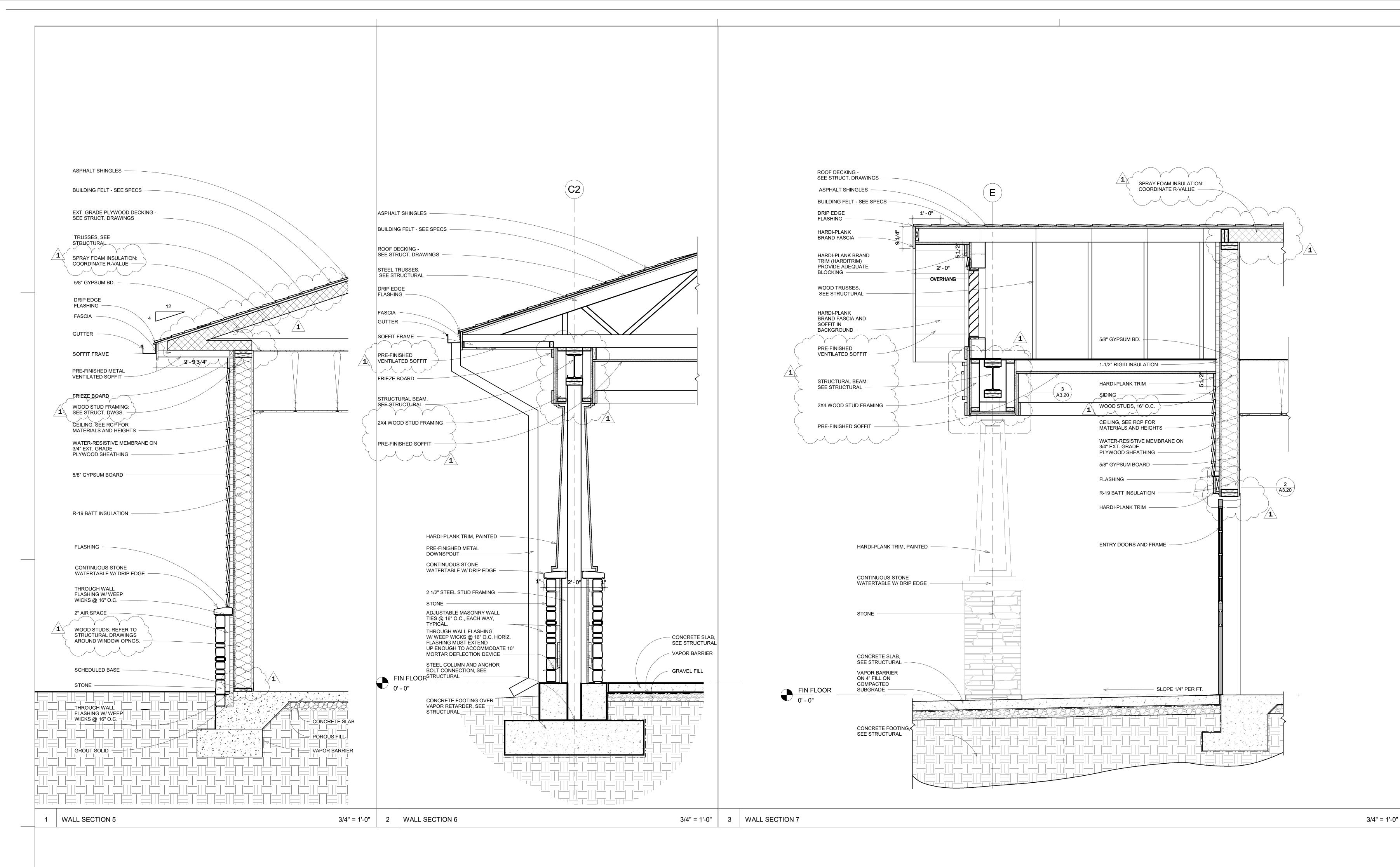
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BUILDING SECTIONS

A2.10





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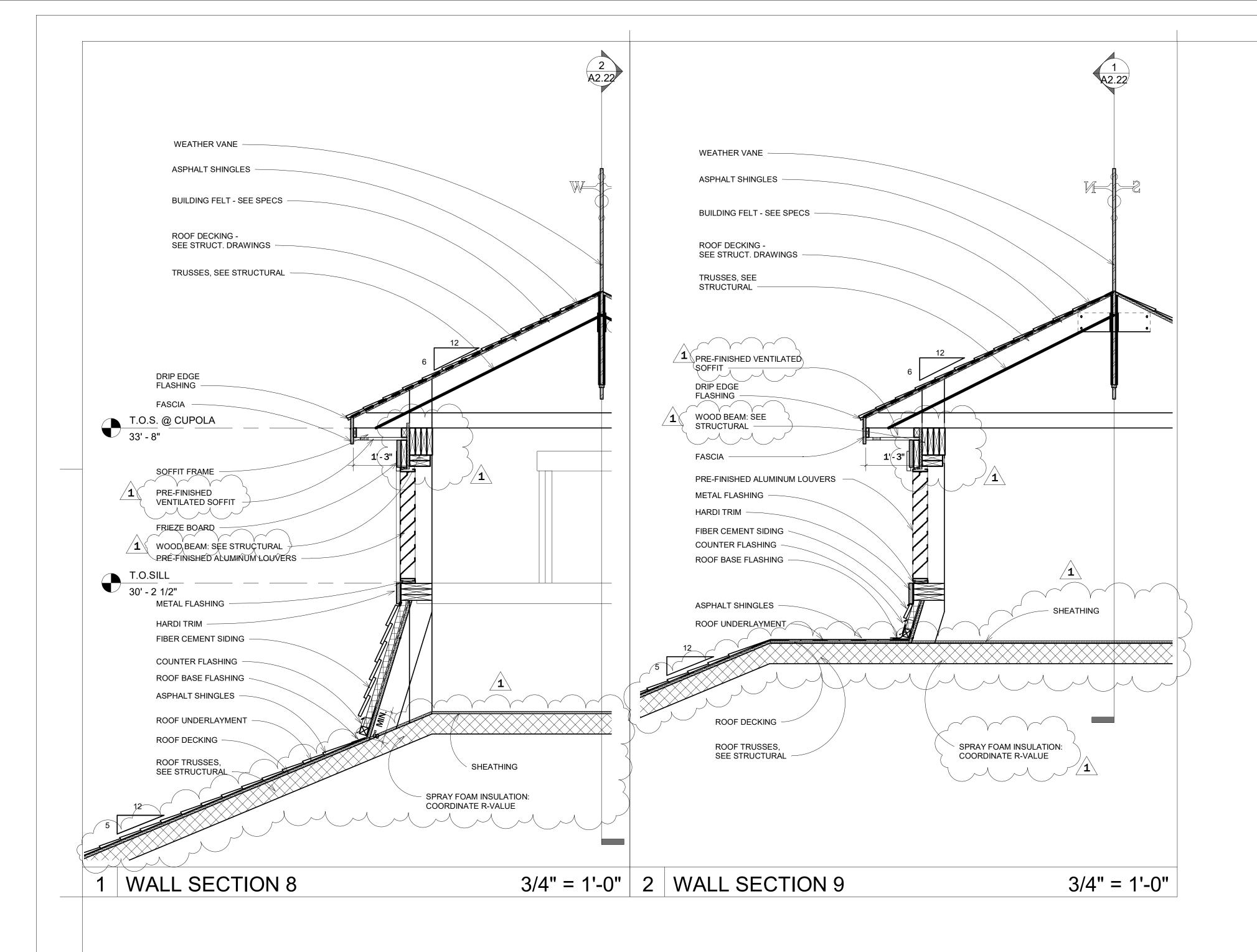
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WALL SECTIONS

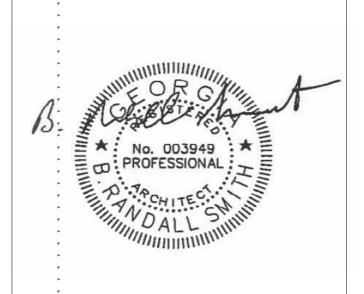
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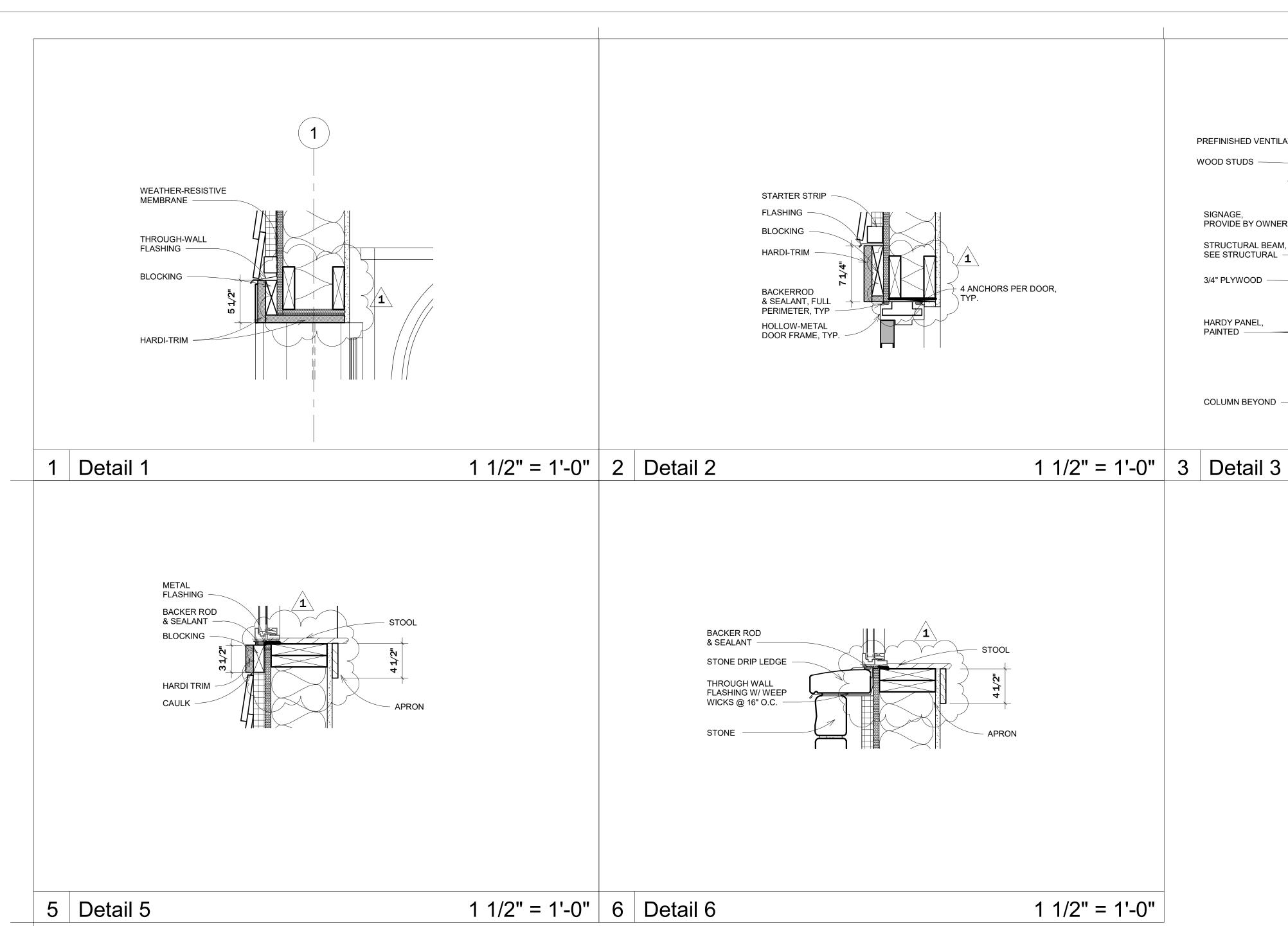
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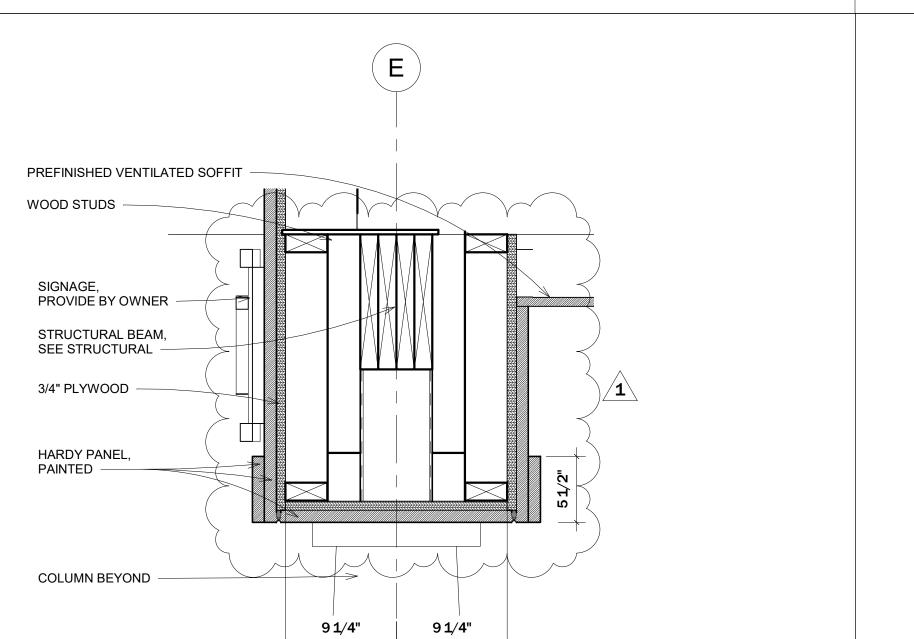
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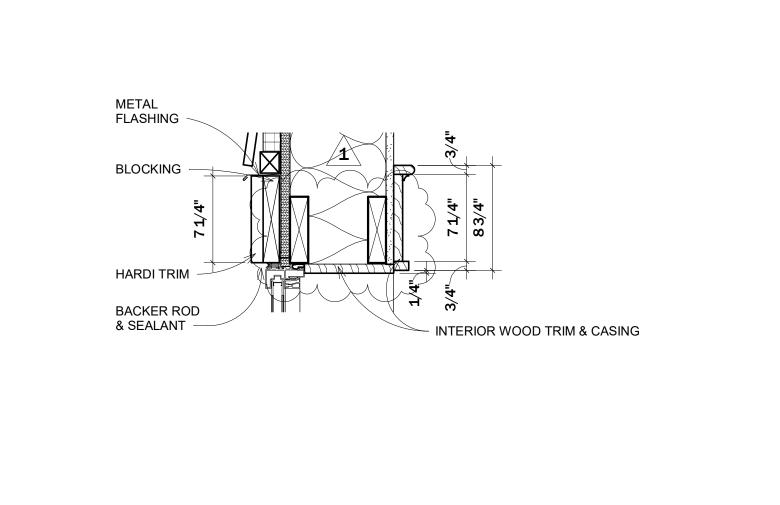
WALL SECTIONS

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1 1/2" = 1'-0" 4 Detail 4



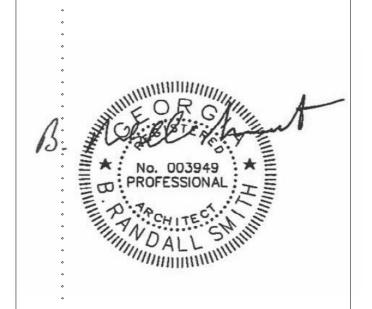
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1 1/2" = 1'-0"

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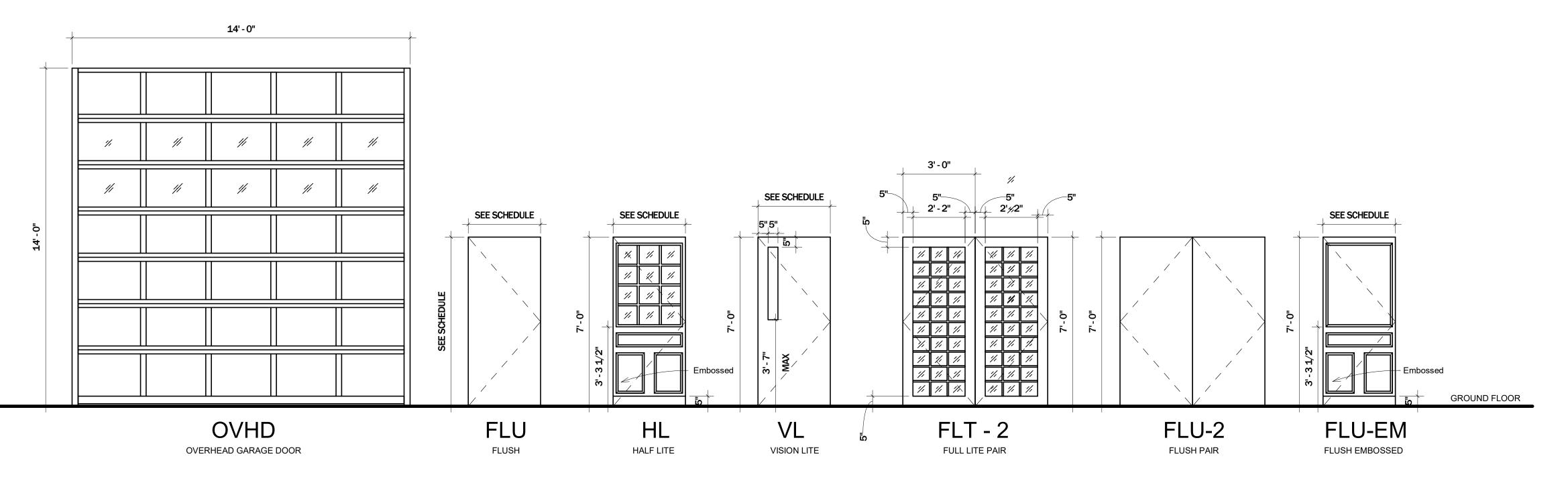
SECTION DETAILS -TYPICAL EXTERIOR DETAILS

A3.20

| | | | | | | | | DOOR AND F | RAME SCHEE | DULE | | | | | |
|-------|--------------|----|---------|---------|-------------|--------------|------------|--------------|------------|---------|---------|--------|---------|------|-------|
| | | | | | D | OOR | | FRA | ME | | | DETAIL | | HARD | |
| | | | | SIZE | - | Material/ | Elevation/ | Material/ | | Fire | | | | WARE | |
| MARK. | ROOM | PR | W | Н | Т | Construction | Glazing | Construction | Elevation | Rating | HEAD | JAMB | SILL | SET | NOTES |
| 100 | ENTRANCE | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | HM | HL | HM | 1 | | | | | 3.0 | |
| 101 | RESTROOM | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | 117 | HM | 1 | | 2200H | 2200J | | 16.0 | |
| 102 | DAY ROOM | | 3' - 4" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 10.0 | |
| 103A | KITCHEN | | 6' - 0" | 7' - 0" | 0' - 1 3/8' | | FLT | HM | 2 | | 2/A3.20 | | | 1.0 | |
| 103B | KITCHEN | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | | 136 | HM | 1 1 | 45 MIN | 2200H | 2200J | <u></u> | 6.0 | |
| 104 | CORRIDOR | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | | HL | HM | 1 | | 2/A3.20 | | | 4.0 | |
| 105 | OFFICE | | 3' - 4" | 7' - 0" | 0' - 1 3/4' | | FLU | HM | 1 | | 2200H | 2200J | | 10.0 | |
| 106 | OFFICE | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | | VL | HM | 1 | | 2200H | 2200J | | 13.0 | |
| 107B | CORRIDOR | | 4' - 0" | 7' - 0" | 0' - 1 3/4' | | FLU | HM | 1 1 | 45 MIN | | | | 6.0 | |
| 107C | CORRIDOR | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | | VL | HM | 1 | | 2200H | 2200J | | 9.0 | |
| 108 | UTILITY | | 4' - 0" | 7' - 0" | 0' - 1 3/4' | | FLU | HM | 1 | | 2200H | 2200J | | 14.0 | |
| 109A | ENGINE HOUSE | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | HM | FLU-EM | HM | 1 | | 2/A3.20 | | | 2.0 | |
| 109B | ENGINE HOUSE | | 0' - 0" | 0' - 0" | 0' - 0" | ALU | OVHD | | | | | | | 17.0 | |
| 109C | ENGINE HOUSE | | 0' - 0" | 0' - 0" | 0' - 0" | ALU | OVHD | | | | | | | 17.0 | |
| 109D | ENGINE HOUSE | | 0' - 0" | 0' - 0" | 0' - 0" | ALU | OVHD | | | | | | | 17.0 | |
| 109E | ENGINE HOUSE | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | HM | FLU | HM | 1 | | 2/A3.20 | | | 2.0 | |
| 110 | STORAGE | | 2' - 6" | 7' - 0" | 0' - 1 3/4' | HM | FLU | HM | 2/1 | 45 MIN. | 1 | | | 5.0 | |
| 111 | STORAGE | | 6' - 0" | 7' - 0" | 0' - 1 3/4' | HM | FLU | HM | 2/1 | 45 MIN. |) | | | 5.0 | |
| 112 | RESTROOM | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | HM | FLU | HM | 1 (| 45 MIN. | \ | | | 8.0 | |
| 113 | VESTIBULE | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | HM | FLU | HM | 1 \ | 45 MIN, |) | | | 6.0 | |
| 114 | UTILITY | | 3' - 4" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 14.0 | |
| 115A | CORRIDOR | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | HM | HL | HM | 1 | | 2/A3.20 | | | 4.0 | |
| 115B | CORRIDOR | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | VL | HM | 1 | | | | | 11.0 | |
| 117A | BEDROOM 1 | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | 20 MIN | 2200H | 2200J | | 7.0 | |
| 117B | BEDROOM 1 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 117C | BEDROOM 1 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 117D | BEDROOM 1 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 118 | BATH 1 | | 3' - 4" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 15.0 | |
| 119A | BEDROOM 2 | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | 20 MIN | 2200H | 2200J | | 7.0 | |
| 119B | BEDROOM 2 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 119C | BEDROOM 2 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 119D | BEDROOM 2 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 120 | BATH 2 | | 3' - 4" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 15.0 | |
| 121A | BEDROOM 3 | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | 20 MIN | 2200H | 2200J | | 7.0 | |
| 121B | BEDROOM 3 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 121C | BEDROOM 3 | | 2' - 0" | 7' - 0" | 0' - 1 3/4' | SCWD | FLU | НМ | 1 | | 2200H | 2200J | | 12.0 | |
| 121D | BEDROOM 3 | | 2' - 0" | | 0' - 1 3/4' | | FLU | НМ | 1 | | 2200H | 2200J | | 12.0 | |
| 122 | BATH 3 | | 3' - 4" | | 0' - 1 3/4' | | FLU | НМ | 1 | | 2200H | 2200J | | 15.0 | |
| 123A | BEDROOM 4 | | 3' - 0" | 7' - 0" | 0' - 1 3/4' | | FLU | НМ | 1 | 20 MIN | 2200H | 2200J | | 7.0 | |
| 123B | BEDROOM 4 | | 2' - 0" | | 0' - 1 3/4' | | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 123C | BEDROOM 4 | | 2' - 0" | | 0' - 1 3/4' | | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 123D | BEDROOM 4 | | 2' - 0" | | 0' - 1 3/4' | | FLU | HM | 1 | | 2200H | 2200J | | 12.0 | |
| 124 | BATH 4 | | 3' - 4" | | 0' - 1 3/4' | | FLU | HM | 1 | | 2200H | 2200J | | 15.0 | |

REMOVABLE MULLION O'-2" DOOR WIDTH O'-2" DOOR WIDTH O'-2" HOLLOW METAL FRAME T 1

FRAME ELEVATIONS



ABBREVIATIONS USED IN DOOR SCHEDULES:

SCWD - SOLID CORE FLUSH WOOD DOOR HM - HOLLOW METAL

SF - STOREFRONT OR CURTAIN WALL

HR - HOUR MIN - MINUTE PR - PAIR

PR - PAIR ALUM - ALUMINUM

MANUF - MANUFACTURER
ELEV - ELEVATION, SEE DETAILS SHEET SHEET A4.00

VL - VISION LITE HL - HALF LITE

HL - HALF LITE FLT - FULL LITE SL - SLIDING DOOR

DL - DIVIDED LITE OVHD - OVERHEAD COILING DOOR

GENERAL DOOR NOTES:

1. ALL LATCHING DOORS TO HAVE LEVER HANDLED HARDWARE.

2. PROVIDE 12" CLEARANCE ON HE "PUSH" SIDE OF DOOR BETWEEN LEADING EDGE OF DOOR LEAF AND AGJACENT WALL SURFACE IF DOOR HAS BOTH CLOSER AND A LATCH. PROVIDE 18" CLEARANCE ON THE "PULL" SIDE.

3. WEATHER-STRIP ALL EXTERIOR DOORS.

4. PROVIDE RUBBER DOOR SILENCER INSERTS AT ALL HOLLOW METAL DOOR FRAMES.

5. PROVIDE VISIBLE FACTORY-APPLIED LABEL AT ALL RATED DOORS AND FRAMES.

6. PROVIDE FLOOR OR WALL MOUNTED DOOR STOPS AT LOCATIONS WHERE ADJACENT WALLS ARE SUBJECT TO DMAGE WHICH MAY BE CAUSED BY CONTACT WITH DOOR HARDWARE.

7. EXIT DOORS SHALL NOT BE SUBJECT TO THE USE OF A KEY FOR OPERATION FROM THE INSIDE OF THE BUILDING.

8. CONTRACTOR TO COORDINATE AND VERIFY WITH THE OWNERS' RESPRESENTATIVE ANY AND ALL HARDWARE CHOICES AND SPECIFICATIONS.

9. ALL THRESHOLD AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT.

10. EACH WINDOW AND DOOR LOCATED IN WALLS WHICH SEPARATE CONDITIONED AND UNCONDITIONED SPACE (INCLUDING BUILDING EXTERIOR) SHALL BE LABELED BY THE MANUFACTURER TO CERTIFY COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL FENESTRATION RATING COUNCIL PER NFRC 100 AND 200 FOR FIELD VERIFICATION BY THE FIELD INSPECTOR.

11. PROVIDE GALVANIZED FRAME.

12. PROVIDE 1/4" MINIMUM LAMINATED GLASS (G2) IN FIRE-RATED DOORS.

13. PAIR OF DOORS

14. PROVIDE SOUND SEALS

NOTE: ALL DOORS SHALL MEET ADA ACCESSIBILITY REQUIREMENTS.

GENERAL NOTES:

 PROVIDE 1" INSULATING TINTED GLASS IG1 IN ALL EXTERIOR, UNLESS OTHERWISSE NOTED.

JIHERWISSE NOTEL

2. TREPRESENTS TEMPERED GLASS UNITS.

3. ALL GLASS UNITS LOCATED WITHIN 24" OF THE EDGE OF DOOR AND/OR WHERE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FINISHED FLOOR SHAL BE TEMPERED GLASS.

4. PROVIDE 1/4" TEMPERED GLASS (G1) AT ALL INTERIOR DOOR LITES LOCATIONS.

5. PROVIDE 5/8" MINIMUM LAMINATED GLASS (G3) IN FIRE-RATED WALLS.

4'-5" 2'-9" GROUND FLOOR

Union County Fire Station

Harbor Boulevard

Murphy Highway Blairsville, Georgia 30512

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Revisions

06.27.22 ISSUED 07.18.22 REVISION 1

Description

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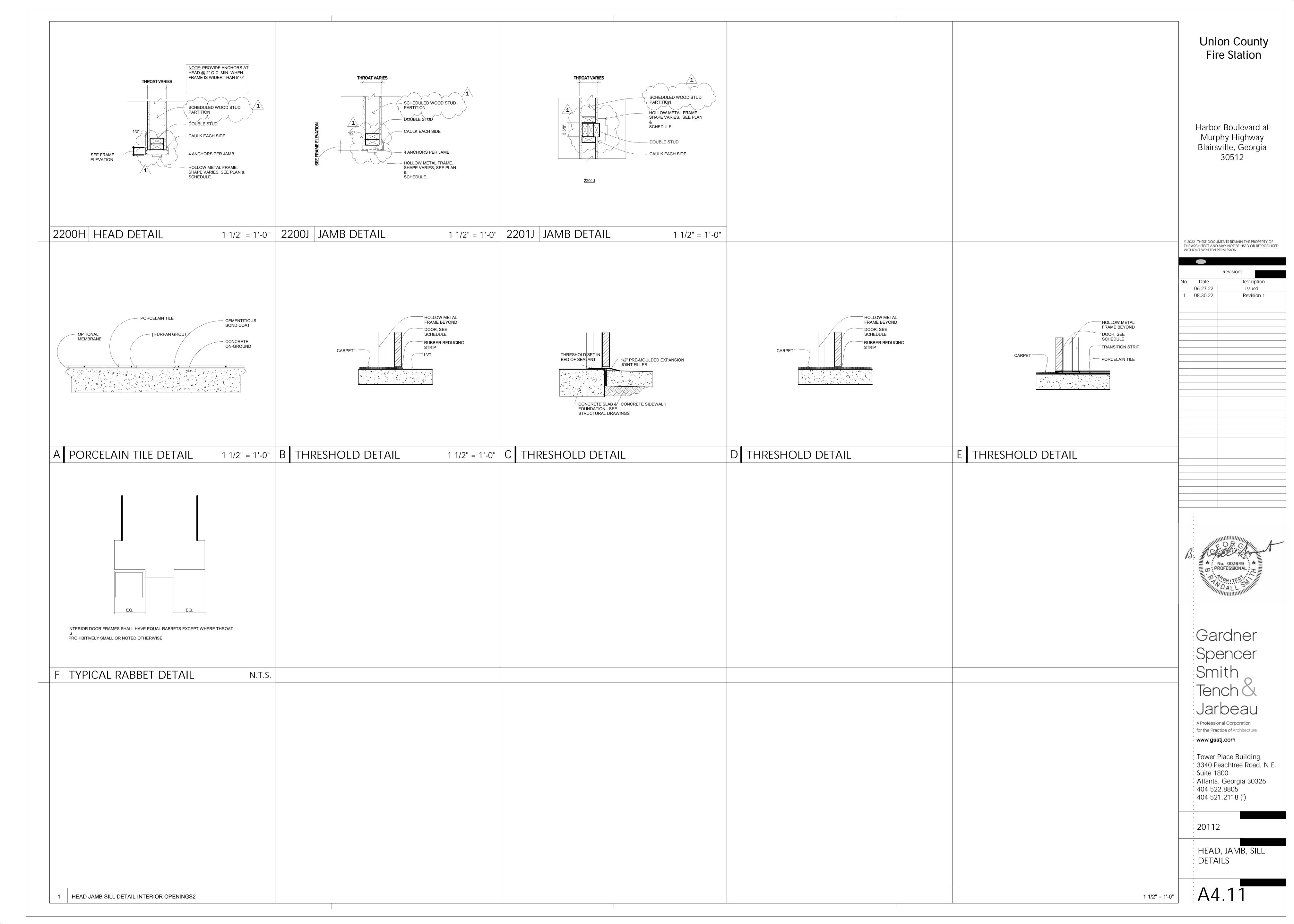
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3340 Peachtree Road, N.E.
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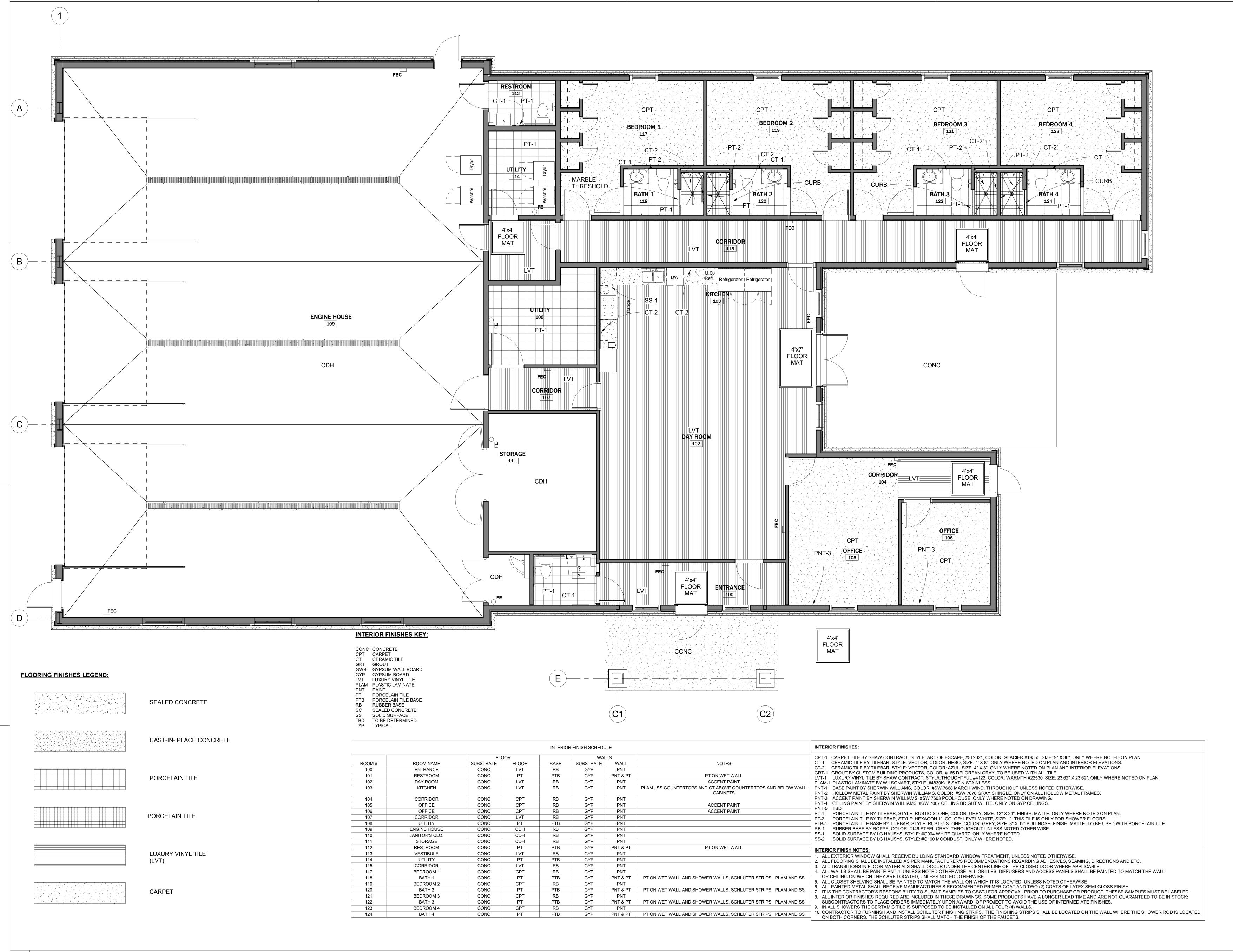
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DOOR SCHEDULE

A4.10

DOOR ELEVATIONS





FLOOR PLAN

Union County Fire Station

Harbor Boulevard

Murphy Highway

Blairsville, Georgia

30512

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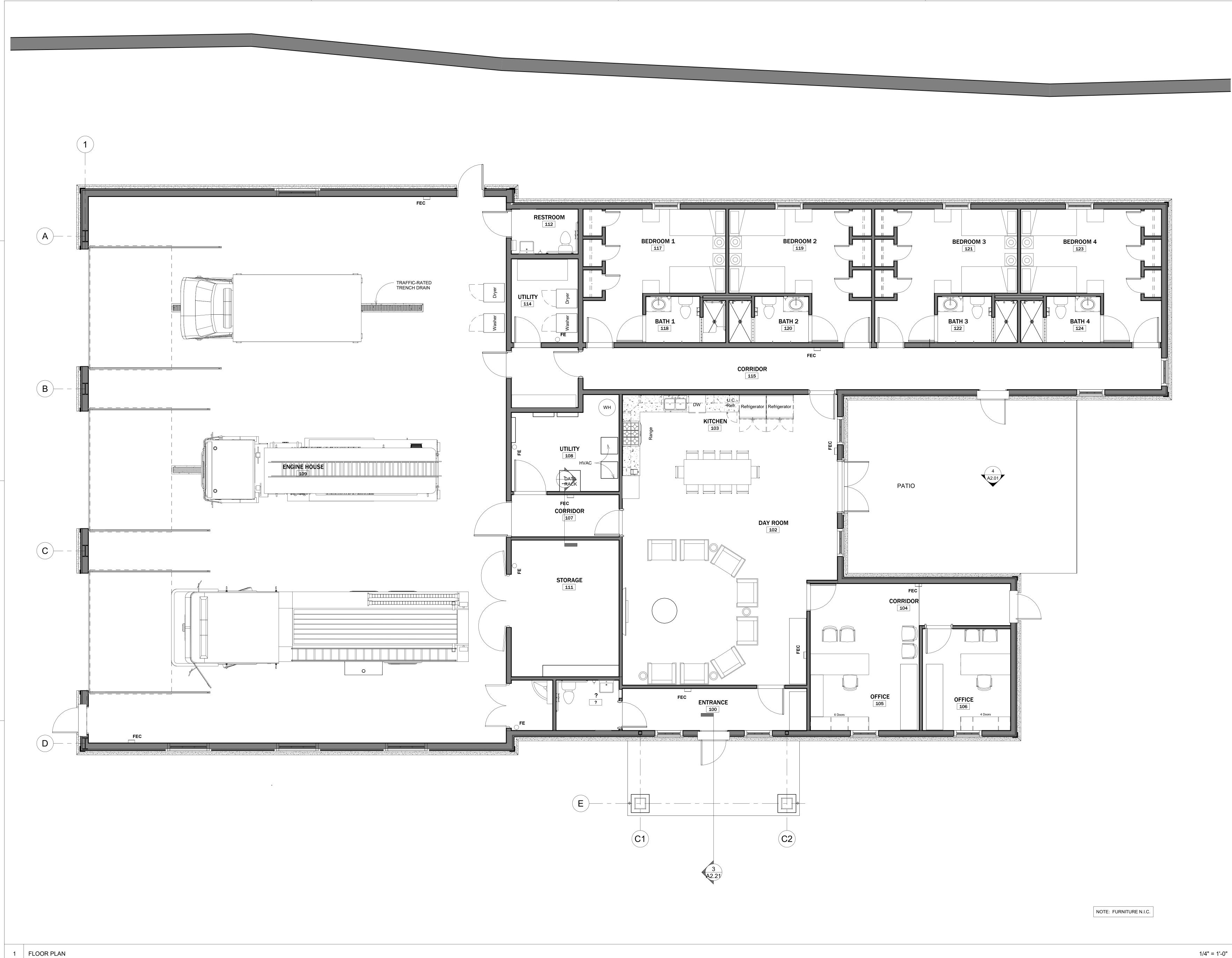
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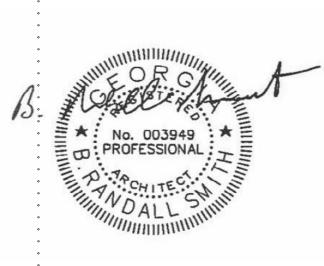
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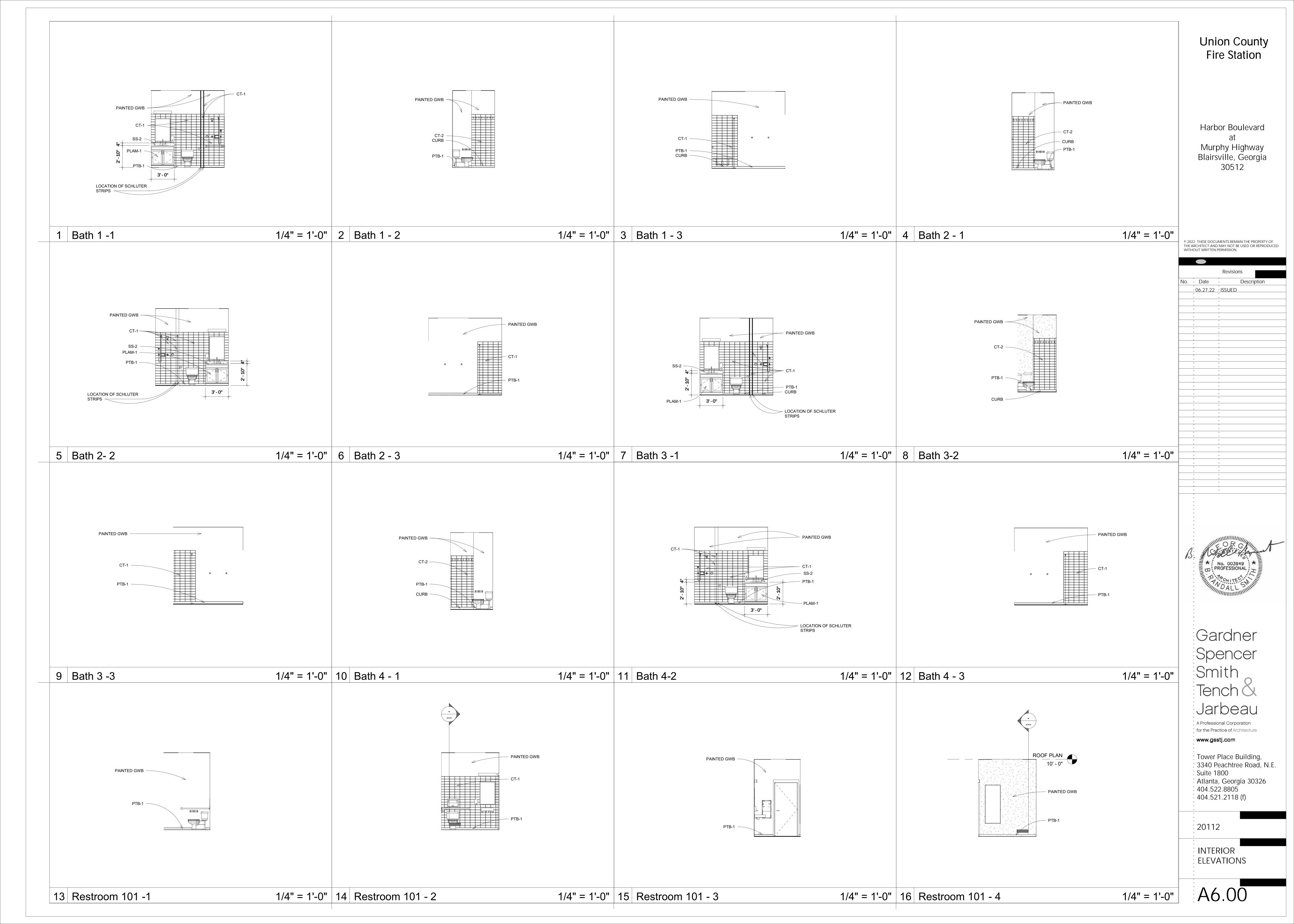
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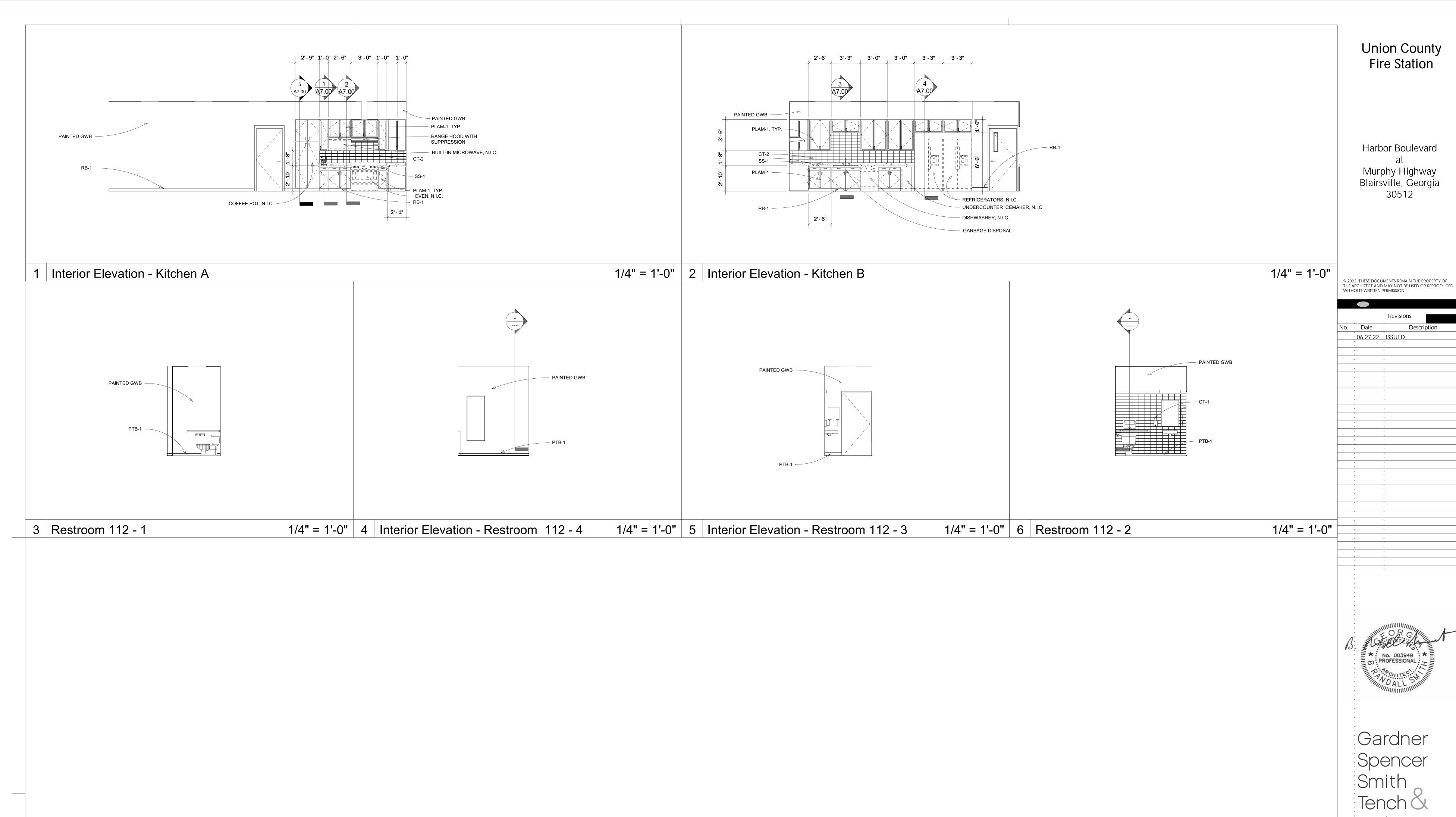
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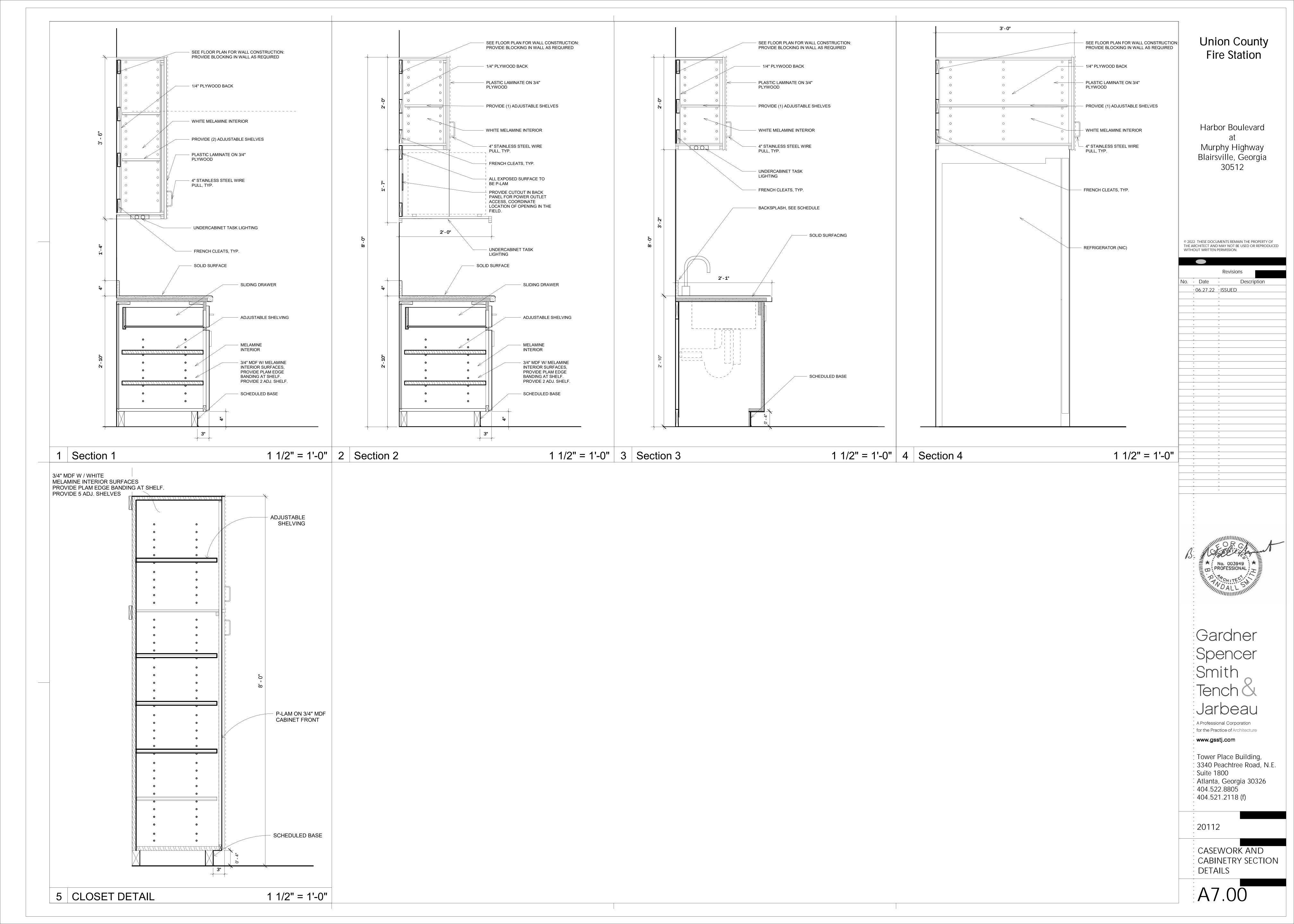
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INTERIOR ELEVATIONS

A6.10



GENERAL NOTES :

| THIS STRUCTURE WAS DESIGNED IN ACCORDAN 2018 INTERNATIONAL BUILDING CODE W/ GA A AND ASCE 7-16. THE FOLLOWING CRITERIA AP | MMENDMENTS |
|---|-----------------|
| LOADS: | |
| RISK CATEGORY = | IV |
| ROOF LIVE LOAD = (DOES NOT INCLUDE MECHANICAL UNITS) | 20 psf |
| ROOF DEAD LOAD = ROOF DEAD LOAD = | 20 psf 5 psf |
| (AVAILABLE TO RESIST UPLIFT) OCCUPIED FLOOR LIVE LOAD = | 100 psf |
| | |

SAFE FLOOR LOADS SHALL BE POSTED IN CONSPICUOUS

| SNOW IMF | SNOW LOAD, PORTANCE FAI ROOF SLNOW | CTOR, Is | | | 10 psf 1.20 13.4 psf |
|-----------------------|---|------------------|------|---------|----------------------------|
| MAPPED S | MPORTANCE F | CELERATIO | NS: | | 1.5 |
| SITE CLAS SPECTRAL | = 0.395, S SS (SOIL TYP) RESPONSE | E): COEFFICIE | NTS: | | D |
| SEISMIC D | = 0.391 , S ESIGN CATEG ORCE RESIST | ORY: | | | D |
| | L ORDINARY | | | MEETING | |

LIMITATIONS OF SECTION 12.2.5.6b OF ASCE 7 (N/S) LIGHT-FRAMED (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS (E/W)

RESPONSE MODIFICATION FACTOR, R: 6.5 OVERSTRENGTH FACTOR, OMEGA: 3.0 3.0 DEFLECTION AMPLIFICATION FACTOR, Cd: 4.0 SEISMIC RESPONSE COEFFICIENT, Cs: 0.17 0.090 DESIGN BASE SHEAR, KIPS: 28.9 15.6 ANALYSIS PROCEDURE: E.L.F. PROCEDURE 117 mph BASIC WIND SPEED (ULTIMATE)

BASIC WIND SPEED (SERVICE) 91 mph WIND EXPOSURE CATEGORY: INTERNAL PRESSURE COEFFICIENT: ±0.18

COMPONENTS & CLADDING PRESSURES (ULTIMATE):

| ZONE | 1 | 2e, 2r | 3 | 2 O.H. | 3 O.H. | 4 | 5 |
|-------|----------------|----------------|----------------|--------|--------|----------------|----------------|
| A=10 | +25.6 -46.0 | +25.6 -63.5 | +25.6 -63.5 | -76.5 | -90.5 | +32.7 -35.4 | +32.7 -43.7 |
| A=20 | +22.1 -40.8 | +22.1 -56.7 | +22.1 -56.7 | -73.5 | -80.9 | +31.2 -34.0 | +31.2 -40.8 |
| A=50 | +16.0 -33.8 | +16.0 -47.8 | +16.0 -47.8 | -69.5 | -68.2 | +29.3 -32.0 | +29.3 -36.9 |
| A=100 | +16.0 -28.6 | +16.0 -41.1 | +16.0 -41.1 | -66.5 | -58.5 | +27.8 -30.6 | +27.8 -34.0 |

A = EFFECTIVE WIND AREA IN SQ. FT.; O.H. = OVERHANG EDGE DISTANCE, a = 6'-6" (ROOF); 6'-6" (WALL) SEE FIG. 6-3, ASCE 7-10 FOR ZONE LAYOUT AND ADD. INFO.)

GENERAL:

- 1. GENERAL CONTRACTOR SHALL VERIFY LOCATIONS OF MECHANICAL EQUIPMENT AND COORDINATE WITH THE STRUCTURAL DRAWINGS. 2. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT.
- 3. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS DURING CONSTRUCTION. 4. CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS
- BEFORE EXECUTING ANY WORK. 5. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING BUT NOT LIMITED TO ALUMINUM STOREFRONT, PRE-ENGINEERED TRUSSES, CURTAIN WALL GLAZING SYSTEMS AND ORNAMENTAL GUARDRAILS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF
- INSPECTION. 6. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR SUBMITTALS OR SHOP DRAWINGS IS NOT PERMITTED AND SHALL RESULT IN REJECTION OF THAT SUBMITTAL OR SHOP DRAWING.

FOUNDATION:

- 1. THE FOUNDATION DESIGN USES MINIMUM ALLOWABLE DESIGN CRITERIA DETERMINED BY 2018 IBC.
- 2. THE FOUNDATION DESIGN IS BASED ON A NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF FOR SHALLOW FOUNDATIONS ON EITHER PROPERLY COMPACED NATIVE SOILS OR STRUCTURAL FILL. SEE GEOTECH REPORT FOR SITE PREPARATION PROCEDURES. 3. A REGISTERED GEOTECHNICAL ENGINEER SHALL VERIFY THE DESIGN SOIL BEARING CAPACITY AND SHALL VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUBGRADE AND FILL PRIOR TO PLACEMENT OF FOOTINGS AND SLABS.

CONCRETE:

- 1. CONCRETE FOR ALL STRUCTURAL ELEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 psi, AND SHALL BE NORMAL WEIGHT U.N.O. W/CM SHALL NOT EXCEED 0.55. SEE PLAN FOR SPREAD FOOTINGS TO HAVE A COMPRESSIVE STRENGTH OF 5,000 psi.
- 2. UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL BE A MINIMUM OF FOUR INCHES THICK, SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 W.W.F. LOCATED 11/2" BELOW THE TOP OF SLAB AND PLACED OVER A 4" GRADED AGGREGATE BASE AND A MINIMUM 12 MIL VAPOR BARRIER. 3. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL BE AIR ENTRAINED
- 5% +/-1. 4. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 "BUILDING
- CODE REQUIREMENTS FOR STRUCTURAL CONCRETE". 5. CONCRETE TEST REPORTS SHALL BE AVAILABLE AT THE JOB SITE.

REINFORCING:

- 1. DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL, SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI
- 315 "DETAILS AND DETAILING OF CONCRETE REINFORCING", AND CRSI MANUAL OF STANDARD PRACTICE. 2. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 DEFORMED
- BARS, UNO. LAP SPLICE LENGTH SHALL BE A MINIMUM "CLASS B" TENSION SPLICE, UNO. 3. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185 AND SHALL BE LAPPED A MINIMUM OF 8" ON ALL SIDES AND SPLICES.
- CORROSION-RESISTANT WIRE @ 16" MAX. HORIZONATALLY, AND 16" O.C. VERTICALLY, SECURELY ATTACHED TO SUPPORT WALL. 5. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:

4. BRICK AND CMU VENEER TIES SHOULD BE A MINIMUM 9 GAUGE

CONCRETE CAST AGAINST EARTH (NOT FORMED) FORMED CONCRETE EXPOSED TO EARTH OR WEATHER #6 BARS AND LARGER #5 BARS AND SMALLER

CONCRETE NOT EXPOSED TO EARTH OR WEATHER SLABS AND WALLS

5. PROVIDE CONTINUOUS REINFORCING WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE CLASS "B" TENSION SPLICE UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCING AND SHALL BE LAPPED WITH CLASS "B" TENSION SPLICES. UNLESS NOTED OTHERWISE LAP LENGTHS EXPRESSED IN NUMBER OF BAR DIAMETERS SHALL BE AS FOLLOWS:

| CLASS | 3,000 | 4,000 | 5,000 #6 OR SMALLER #7 OR LARGER

TABLE IS FOR NORMAL WEIGHT CONCRETE. INCREASE THE ABOVE LAP LENGTHS BY A FACTOR OF 1.3 FOR BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM (I.E. TOP BARS). INCREASE LAP LENGTHS BY A FACTOR OF 1.3 FOR WHEN LIGHT WEIGHT CONCRETE IS USED.

STEEL:

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, EXCEPT STRUCTURAL TUBING (HSS) SHALL CONFORM TO ASTM A500 GRADE C, AND PIPE SHAPES SHALL CONFORM TO ASTM A53 GRADE B. ANGLES AND MISCELLANEOUS PLATES AND BARS MAY CONFORM TO ASTM A36. 2. ALL BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED
- ACCORDING TO "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 AND ASTM A490 BOLTS". 3. ANCHOR RODS SHALL CONFORM TO ATSM F1554, GRADE 36, UNO. 4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS STRUCTURAL WELDING CODE AND SHALL BE PERFORMED BY CERTIFIED WELDERS
- USING E70XX ELECTRODES. 5. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS, LATEST EDITION.

- 1. STRUCTURAL WOOD COMPONENTS SHALL BE NO. 2 SOUTHERN PINE
- CONFORMING TO THE LATEST EDITION OF NDS. 2. WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND AT OTHER LOCATIONS AS SHOWN ON STRUCTURAL DRAWINGS, SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS' ASSOCIATION STANDARDS. MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE
- 3. CONNECTORS AND FASTENERS FOR PRESERVATIVE—TREATED AND FIRE—RETADANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER INCLUDING BUT NOT LIMITED TO ANCHOR RODS, POWDER ACTUATED FASTENERS, NAILS, SCREWS, BOLTS, AND STEEL FRAMING HARDWARE. ZINC COATING WEIGHTS SHALL COMPLY WITH THE REQUIREMENTS INCLUDED IN IBC SECTION 2304.9.5 FOR THE APPROPRIATE
- 4. CONNECTION HARDWARE SPECIFIED SHALL USE THE TYPE, SIZE, AND MAXIMUM NUMBER OF FASTENERS SPECIFIED IN THE MANUFACTURER'S PRODUCT LITERATURE UNLESS NOTED OTHERWISE IN THE DETAILS.
- 5. MULTIPLE MEMBER BEAMS OF 2x OR LVL SHALL BE ATTACHED WITH A MINIMUM OF TWO ROWS OF 16d NAILS @ 12" O.C., STAGGER. 6. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM
- PROPERTIES: Fb = 2,600 psi, Fv = 220 psi, E = 1,800 ksi 7. INTERIOR NON LOAD-BEARING WALLS SHALL BE ATTACHED TO ROOF TRUSSES USING SIMPSON DTC CLIP ANGLES.

WOOD SHEATING:

- 1. ROOF SHEATHING IS DESIGNED AS A DIAPHRAGM AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE BUILDING CODE. UNLESS SHOWN OTHERWISE, PROVIDE 3/4" PLYWOOD (WOOD STRUCTURAL PANELS - APA RATED SHEATHING WITH 48-24 SPAN RATING). PANELS SHALL BE FASTENED USING 10d NAILS AT 6" O/C ALONG PANEL EDGES AND OPENINGS AND 12" O/C ELSEWHERE.
- 2. WALL SHEATHING SHALL BE ½" PLYWOOD (WOOD STRUCTURAL PANELS -APA RATED SHEATHING WITH 32-16 SPAN RATING). PANELS SHALL BE FASTENED USING 10d NAILS AT 6" O/C ALONG PANEL EDGES, BLOCKING, AND OPENINGS AND 12" O/C ELSEWHERE.

PRE-ENGINEERED WOOD TRUSSES:

BOTTOM CHORD DEAD LOAD

- 1. ENGINEERED WOOD TRUSS SYSTEMS SHALL BE DESIGNED BY SUPPLIER'S SPECIALTY ENGINEER TO CONFIGURATION AND LOAD CARRYING CAPACITY SHOWN ON DRAWINGS AND SPECIFICATIONS. ALTERNATE TRUSS LAYOUTS ARE ACCEPTABLE ONLY AS A CHANGE ORDER WHICH WILL INCLUDE ENGINEERING CHARGES FOR REDESIGN OF THE STRUCTURE BY THE ENGINEER OF RECORD. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTOR TYPES UTILIZED WITHIN TRUSSES, AS WELL AS CONNECTORS UTILIZED IN OTHER CONNECTIONS AND ATTACHMENTS BETWEEN TRUSSES OR COMPONENTS SUPPLIED AS PART OF THE ENGINEERED TRUSS SYSTEM. ALL HARDWARE (BOLTS, HANGERS, STRAPS, ETC.) REQUIRED FOR CONNECTIONS BETWEEN PRE-ENGINEERED TRUSSES SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS ENGINEER. AN ERECTION DRAWING SHALL BE INCLUDED. IDENTIFYING TRUSS SYSTEM COMPONENTS. AS WELL AS PERMANENT BRACING REQUIRED FOR TRUSS DESIGN. BRACE IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE/STRUCTURAL BUILDING COMPONENT ASSOCIATION "BUILDING COMPONENT SAFETY INFORMATION", BCSI-13 GUIDELINES AND RELATED SUMMARY SHEETS.
- 2. ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AS THE SPECIALTY ENGINEER. ALL PRE-ENGINEERED TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND
- APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD. 3. LOAD DURATION FACTORS CONFORMING TO THE LATEST NDS SHALL BE USED 4. WOOD TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED GRAVITY LOADS: TOP CHORD DEAD LOAD

10 PSF

- 20 PSF TOP CHORD LIVE LOAD BOTTOM CHORD LIVE LOAD, U.N.O. (*) NOT CONCURRENT WITH TOP CHORD LIVE LOAD 5. DESIGN ROOF TRUSSES TO RESIST WIND UPLIFT PRESSURES IN ACCORDANCE WITH THE BUILDING CODE NOTED ABOVE. USE ROOF DEAD LOAD (AVAILABLE TO RESIST UPLIFT) LISTED IN THE DESIGN LOAD SECTION
- IN DETERMINING NET UPLIFT PRESSURES. 6. IN ADDITION TO THE ABOVE LOADS, WOOD ROOF TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS ALONG WITH ROOF FRAMING PLAN FOR LOADING INFORMATION AND LOCATION. LOADING REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE
- COORDINATED BY THE GENERAL CONTRACTOR. 7. ANY REPAIRS OR MODIFICATIONS OF THE PRE-ENGINEERED TRUSSES SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURER.

SPECIAL INSPECTIONS NOTES:

- 1. DURING CONSTRUCTION, SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705 OF THE IBC. AN APPROVED SPECIAL INSPECTOR WITH QUALIFICATIONS SATISFACTORY TO THE BUILDING OFFICIAL SHALL PERFORM SPECIAL INSPECTIONS. ALL SPECIAL STRUCTURAL INSPECTION REPORTS SHALL BE PREPARED BY AND BEAR THE SEAL OF THE SPECIAL INSPECTOR, AND ALL REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, ARCHITECT, AND TO THE STRUCTURAL ENGINEER.
- 2. SPECIAL INSPECTOR SHALL PREPARE THE REQUIRED QUALITY ASSURANCE PLANS & SUBMIT PLAN TO BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE PERMITTED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL FURNISH PERIODIC INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONALS OF RECORD. THE FREQUENCY OF REPORTS SHALL BE AS AGREED UPON BY THE BUILDING OFFICIAL. ALL NONCONFORMING ITEMS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF CORRECTED, THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER.
- 4. THE SPECIAL INSPECTOR, UPON COMPLETION OF THE WORK AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. SHALL SUBMIT A SIGNED & SEALED FINAL REPORT DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE PRIOR REPORTS.
- 5. ALL STRUCTURAL ELEMENTS OF THE BUILDING FRAME SHALL BE INSPECTED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND REQUIREMENTS OF SECTION 1705 OF THE IBC, INCLUDING, BUT NOT BE LIMITED TO THE
- SECTIONS LISTED ON THIS DRAWING. 6. A QUALITY ASSURANCE PLAN FOR WIND RESISTANCE IS NOT REQUIRED PER
- IBC 1705.10. 7. A QUALITY ASSURANCE PLAN FOR SEISMIC RESISTANCE IS REQUIRED PER IBC 1705.11.

| | | ДООГ | CABLE TO THIS PROJEC |
|---|--|-------|-------------------------------|
| MATERIAL / ACTIVITY | SERVICE | Y/N | EXTENT |
| 1705.2.1 STEEL CONSTRUCTION | | | |
| FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, SECTION N 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS) | SUBMITTAL REVIEW | Y | EACH SUBMITTAL |
| MATERIAL VERIFICATION OF STRUCTURAL STEEL | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| STRUCTURAL STEEL WELDING: | | | |
| 1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N5.4-1 | SHOP* AND FIELD INSPECTION | Y | OBSERVE OR PERFOR AS NOTED |
| 2. INSPECTION TASKS DURING TO WELDING PER AISC 360 TABLE N5.4-2 | SHOP* AND FIELD INSPECTION | Y | OBSERVE |
| 3. INSPECTION TASKS AFTER TO WELDING PER AISC 360 TABLE N5.4-3 | SHOP* AND FIELD INSPECTION | Υ | OBSERVE OR PERFOR AS NOTED |
| 4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS | | Y | |
| A. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV | SHOP OR FIELD ULTRASONIC TESTING - 100% | Y | PERIODIC |
| B. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II | SHOP OR FIELD ULTRASONIC TESTING - 10% OF WELDS MINIMUM | Y | PERIODIC |
| C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1 | SHOP OR FIELD RADIOGRAPHIC OR ULTRASONIC TESTING | Y | PERIODIC |
| D. FABRICATOR'S NDT REPORTS WHEN | VERIFY REPORTS | Y | EACH SUBMITTAL |
| FABRICATOR PERFORMS NDT STRUCTURAL STEEL BOLTING: | SHOP AND FIELD INSPECTION | Y | |
| 1. INSPECTION TASKS PRIOR TO BOLTING | SHOP AND FIELD INSPECTION | ı | |
| (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1) | | Y | OBSERVE OR PERFOR AS NOTED |
| 2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2) | | | OBSERVE |
| A. PRE-TENSIONED & SLIP CRITICAL JOINTS | | | |
| 1) TURN-OF-NUT WITH MATCHING MARKINGS | | Υ | PERIODIC |
| 2) DIRECT TENSION INDICATOR | | Υ | PERIODIC |
| 3) TWIST-OFF TYPE TENSION CONTROL BOLT | | Y | PERIODIC |
| 4) TURN-OF-NUT WITHOUT MATCHING MARKINGS | | Y | CONTINUOUS |
| 5) CALIBRATED WRENCH | | Υ | CONTINUOUS |
| B. SNUG TIGHT JOINTS | | Υ | PERIODIC |
| 3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3) | | Y | PERFORM |
| VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS) | FIELD INSPECTION | Υ | PERIODIC |
| VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENT | FIELD INSPECTION | Y | PERIODIC |
| 1705.12.1 STRUCTURAL STEEL SPECIA | AL INSPECTIONS FOR SEISMIC | RESIS | TANCE |
| SEISMIC FORCE-RESISTING SYSTEMS (SFRS) IN SDC B, C, D, E, OR F. | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| STRUCTURAL STEEL ELEMENTS IN SDC B, C, D, E, OR F OTHER THAN SFRS INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS. | SHOP* AND FIELD INSPECTION | N | PERIODIC |
| 1705.13.1 STRUCTURAL STEEL TESTIN | IG FOR SEISMIC RESISTANCE | | |
| NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEMS IN ACCORDANCE WITH AISC 341 IN STRUCTURES ASSIGNED TO SDC B, C, D, E OR F. | SHOP* AND FIELD INSPECTION | Y | PER AISC 341 |
| NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN THE SEISMIC FORCE-RESISTING SYSTEMS NOT COVERED IN 1 ABOVE INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS IN ACCORDANCE WITH AISC 341 IN STRUCTURES ASSIGNED TO SDC B, C, D, E OR F. | SHOP* AND FIELD INSPECTION | N | EACH OCCURENCE |

| MATERIAL / ACTIVITY | SERVICE | <u> </u> | CABLE TO THIS PROJEC |
|--|--|----------|---|
| WATERIAL / ACTIVITY | SERVICE | Y/N | EXTENT |
| 1705.3 CONCRETE CONSTRUCTION | | , , | |
| INSPECTION AND PLACEMENT VERIFICATION OF REINFORCING STEEL | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| NSPECTION OF ANCHORS CAST IN CONCRETE. | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER RESEARCH REPORTS, OR, IF NO SPECIFIC REQUIREMENTS ARE PROVIDED, REQUIREMENTS SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL AND APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE | FIELD INSPECTION | Y | PERIODIC OR AS REQUIRED BY THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCI |
| 1. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD-INCLINED ORIENTATION THAT RESIST SUSTAINED TENSION LOADS. | | N | CONTINUOUS |
| 2. MECHANICAL AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED IN NOTE 1. | | Y | PERIODIC |
| VERIFY USE OF APPROVED DESIGN MIX | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| PRIOR TO PLACEMENT, FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE AND PERFORM ANY OTHER TESTS AS SPECIFIED IN CONSTRUCTION DOCUMENTS. | SHOP* AND FIELD INSPECTION | Y | CONTINUOUS |
| INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES | SHOP* AND FIELD INSPECTION | Y | CONTINUOUS |
| VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| ERECTION OF PRECAST CONCRETE MEMBERS | | Y | PERIODIC |
| VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS | FIELD TESTING AND REVIEW OF LABORATORY REPORTS | Y | PERIODIC |
| INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS | FIELD INSPECTION | Y | PERIODIC |
| CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS | FIELD TESTING AND REVIEW OF LABORATORY REPORTS | Y | PERIODIC |
| 1705.5 WOOD CONSTRUCTION | , | | |
| FOR PREFABRICATED WOOD STRUCTURAL ELEMENTS, INSPECTION OF THE FABRICATION PROCESS AND ASSEMBLIES IN ACCORDANCE WITH SECTION 1704.2.5 | IN-PLANT REVIEW* | Y | PERIODIC |
| FOR HIGH-LOAD DIAPHRAGMS, VERIFY GRADE AND THICKNESS OF STRUCTURAL PANEL SHEATHING AGREE WITH APPROVED BUILDING PLANS. | FIELD INSPECTION | N | PERIODIC |
| FOR HIGH-LOAD DIAPHRAGMS, VERIFY NOMINAL SIZE OF 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 |
| 1. 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 | Y | PERIODIC |
| 2. 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 | | | |
| VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | FIELD INSPECTION | Y | PERIODIC |
| VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | FIELD INSPECTION | Y | PERIODIC |
| PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | FIELD INSPECTION | Y | PERIODIC |
| VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND | FIELD INSPECTION | Y | CONTINUOUS |
| COMPACTION OF CONTROLLED FILL PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS | FIELD INSPECTION | Y | PERIODIC |
| 4705 42 4 STRUCTURAL STEEL SPECIA | I INCRECTIONS FOR SEIGHT | PEOLO | TANCE |
| 1705.12.1 STRUCTURAL STEEL SPECIA SEISMIC FORCE-RESISTING SYSTEMS (SFRS) IN SDC | | | |
| B, C, D, E, OR F. STRUCTURAL STEEL ELEMENTS IN SDC B, C, D, E, | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| OR F OTHER THAN SFRS INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS. | SHOP* AND FIELD INSPECTION | N | PERIODIC |
| 1705.12.2 STRUCTURAL WOOD SPECIA | L INSPECTIONS FOR SEISMIC | RESIS | TANCE |
| FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE RESISTING SYSTEM FOR SDC C, D, E OR F. | FIELD INSPECTION | N | CONTINUOUS |
| NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, SHEAR PANELS AND HOLD-DOWNS FOR SDC C, D, E OR F. | SHOP* AND FIELD INSPECTION | Y | PERIODIC |
| 1705.13.1 STRUCTURAL STEEL TESTING | G FOR SEISMIC RESISTANCE | ſ | |
| NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEMS IN ACCORDANCE WITH AISC 341 IN STRUCTURES ASSIGNED TO SDC B, C, D, E OR F. | SHOP* AND FIELD INSPECTION | Y | PER AISC 341 |
| NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN THE SEISMIC FORCE-RESISTING SYSTEMS NOT COVERED IN 1 ABOVE INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS IN ACCORDANCE WITH AISC 341 IN STRUCTURES ASSIGNED TO SDC B, C, D, E OR F. | SHOP* AND FIELD INSPECTION | N | EACH OCCURENCE |

GENERAL REVISIONS TO SHEET

THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE

TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT

CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE

DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S)

AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.

(*) SHOP INSPECTIONS OF FABRICATED ITEMS ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH

OBSERVE: OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: THESE

NOTES:

IBC SECTION 1704.2.5.1 AND LISTED IN ACTIVITY 1709.2.



Harbor Boulevard Murphy Highway Blairsville, Georgia 30512



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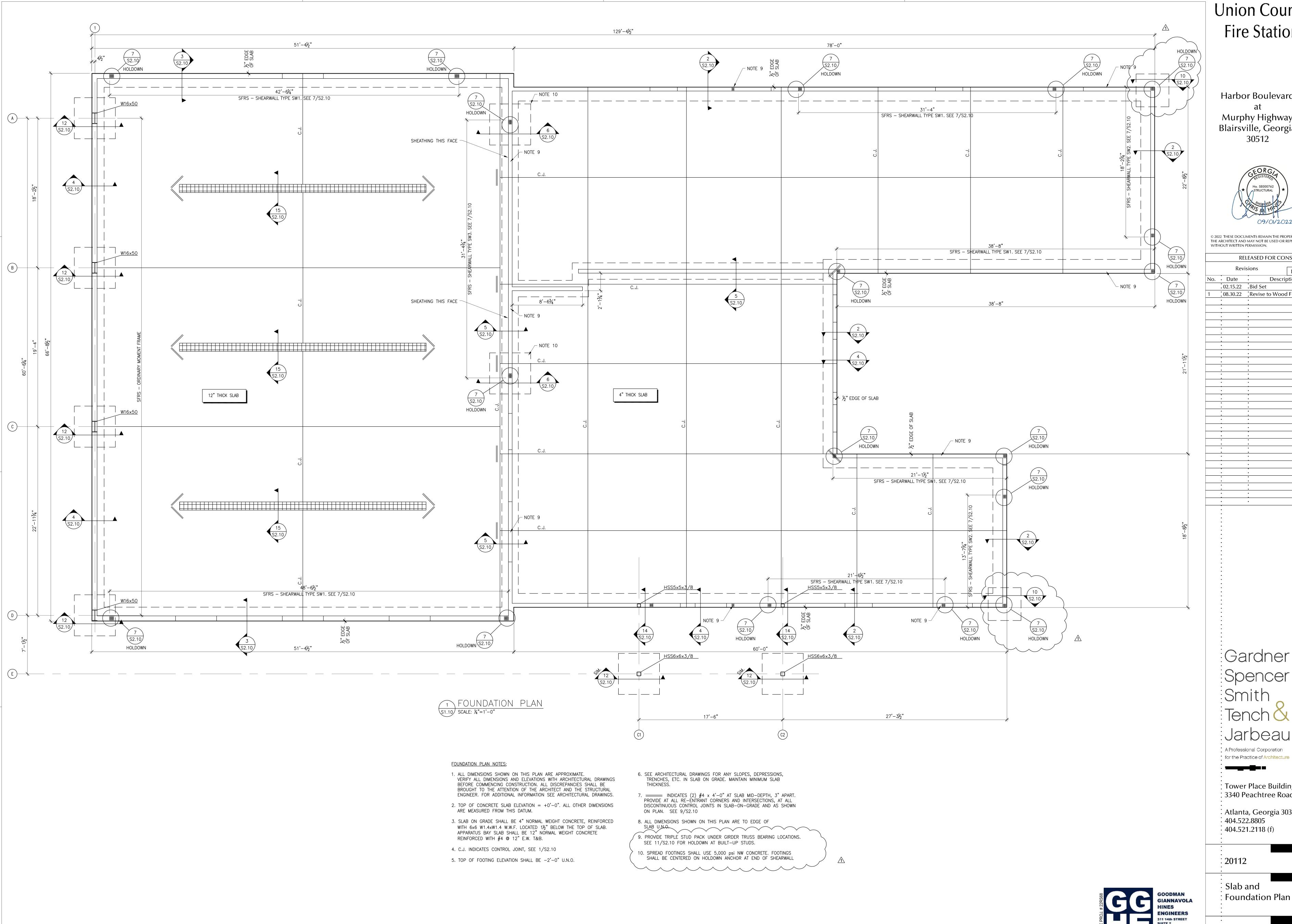
Tower Place Building,

: 3340 Peachtree Road, N.E. : Atlanta, Georgia 30326 404.522.8805

: 20112

404.521.2118 (f)

General Notes & Special Inspections



Harbor Boulevard

Murphy Highway Blairsville, Georgia 30512



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> Gardner Jarbeau

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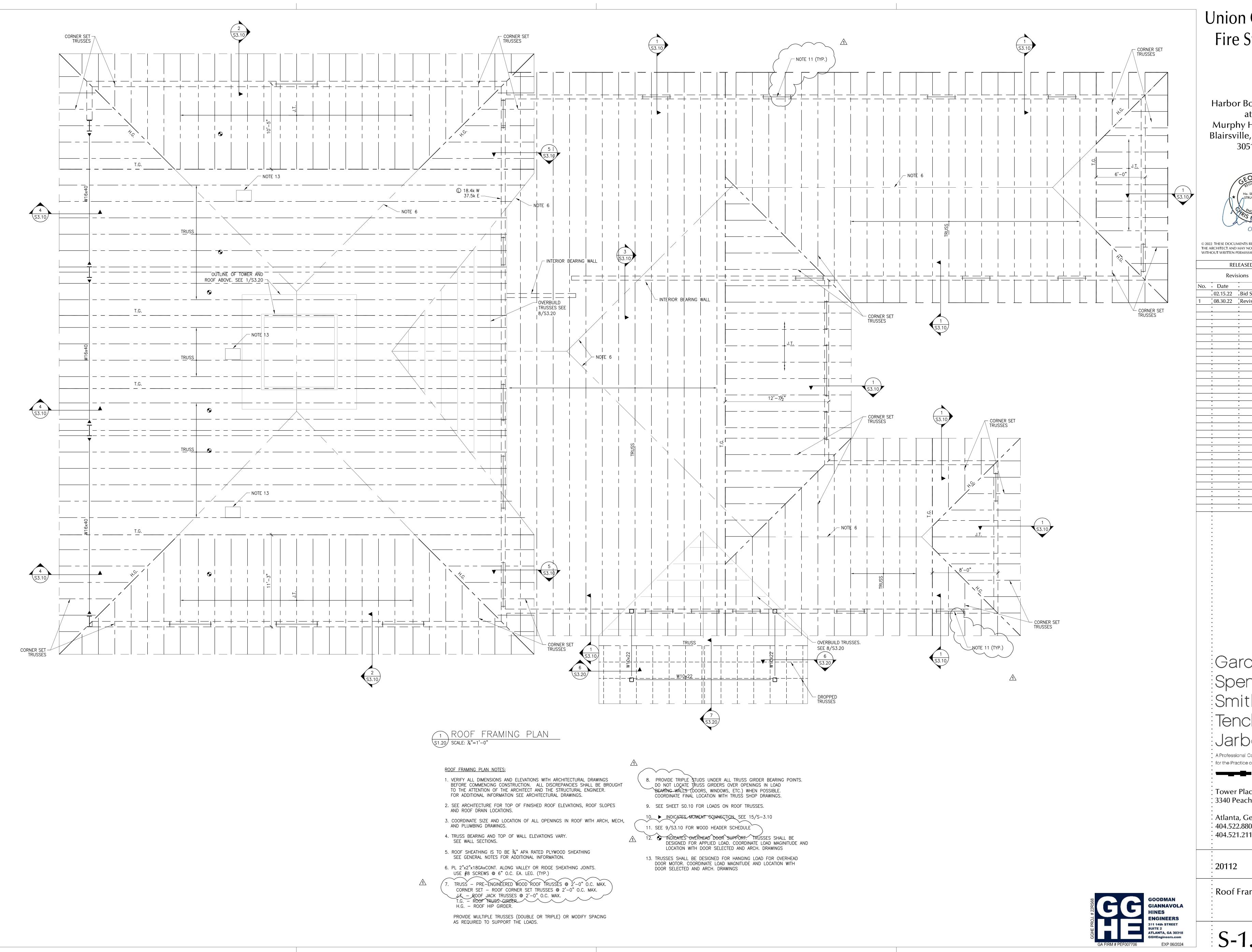
: Atlanta, Georgia 30326

: 404.522.8805 : 404.521.2118 (f)

: 20112

ATLANTA, GA 30318

: Slab and : Foundation Plan



Harbor Boulevard

Murphy Highway Blairsville, Georgia



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RELEASED FOR CONSTRUCTION REVISIONS Description

. 08.30.22 Revise to Wood Framing

Gardner

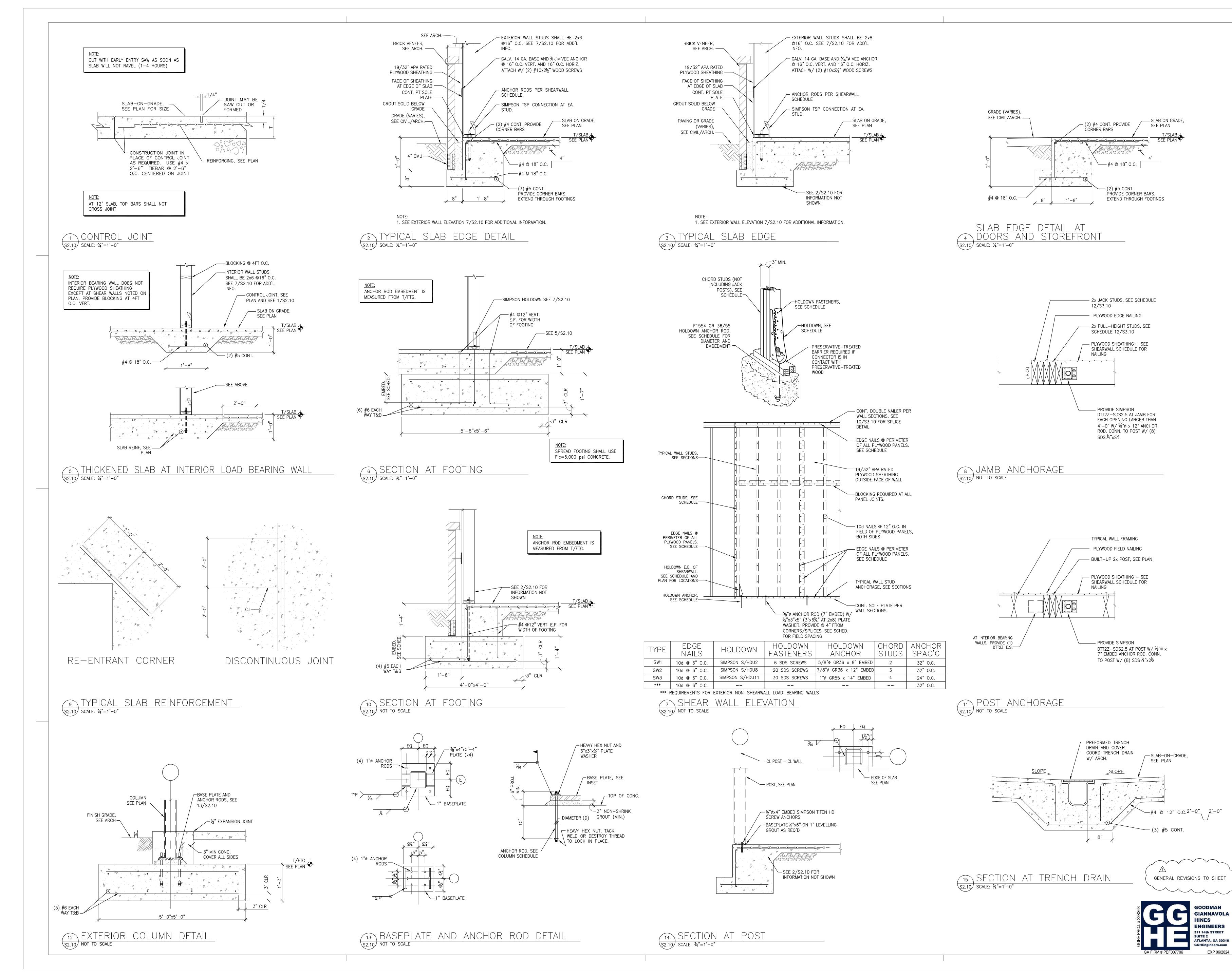
: A Professional Corporation

* for the Practice of Architecture

: Tower Place Building, : 3340 Peachtree Road, N.E.

: Atlanta, Georgia 30326 : 404.522.8805 : 404.521.2118 (f)

Roof Framing Plan



Harbor Boulevard at Murphy Highway Blairsville, Georgia

30512



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Revisions
Revisions
REVISIONS
Date Description
02.15.22 Bid Set
08.30.22 Revise to Wood Framing

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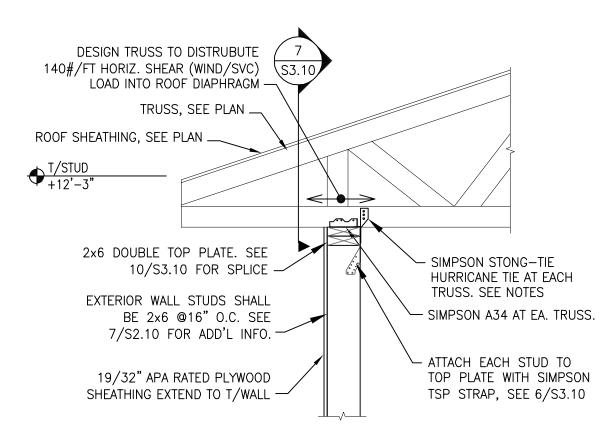
: Atlanta, Georgia 30326 : 404.522.8805

404.522.8805 404.521.2118 (f)

20112

Foundation
Sections and Details

S-2.10



NOTES:

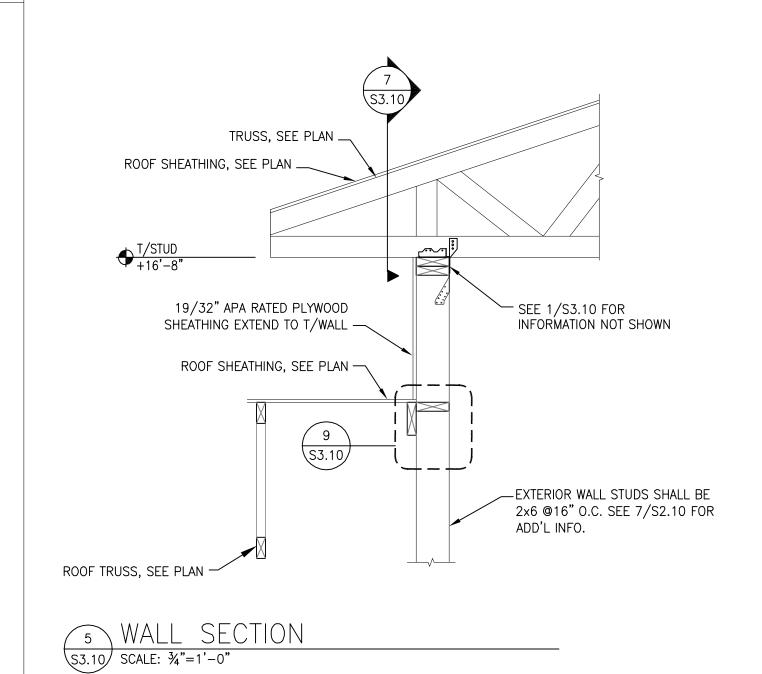
1. PROVIDE THE FOLLOWING SIMPSON STRONG—TIE HURRICANE TIES, MIN.:

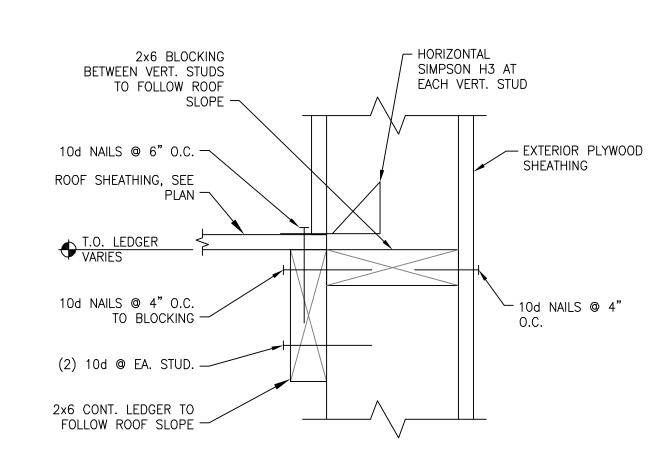
AT TRUSSES — (1) SIMPSON H2.5A

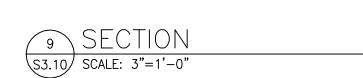
AT J.T. AND CORNER SET TRUSSES — (1) SIMPSON H2.5A

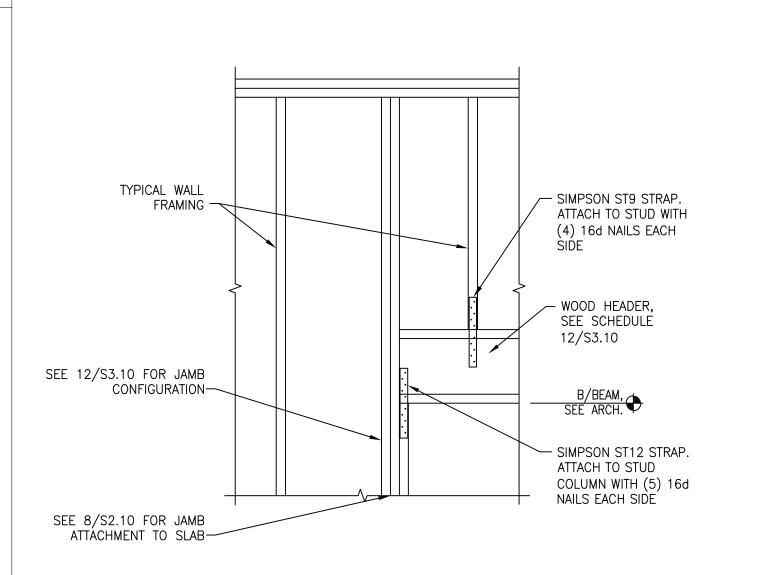
AT TRUSS GIRDERS — LGT2/3/4 (TO MATCH TRUSS PLIES)

NALL SECTION
S3.10 SCALE: ¾"=1'-0"

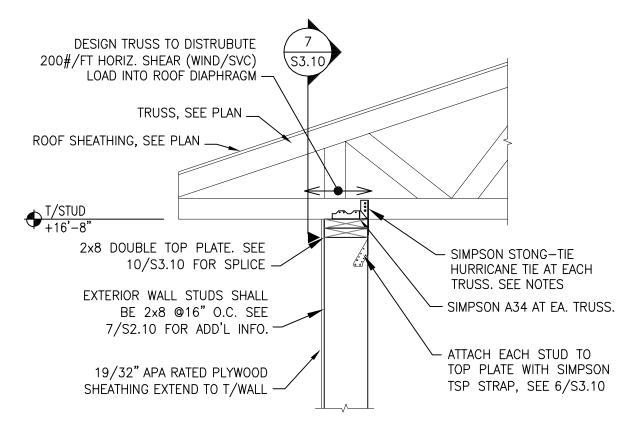








11 SECTION S3.10 SCALE: ¾"=1'-0"



NOTES:

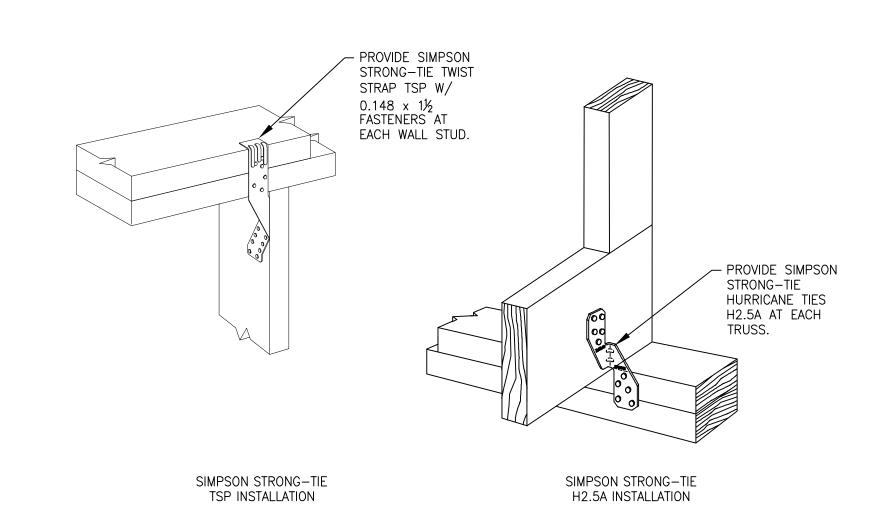
1. PROVIDE THE FOLLOWING SIMPSON STRONG—TIE HURRICANE TIES, MIN.:

AT TRUSSES — (1) SIMPSON H2.5A

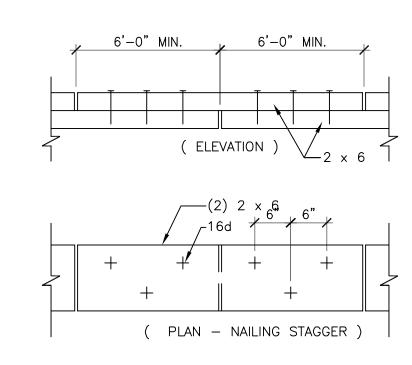
AT J.T. AND CORNER SET TRUSSES — (1) SIMPSON H2.5A

AT TRUSS GIRDERS — LGT2/3/4 (TO MATCH TRUSS PLIES)

S3.10 SCALE: 34"=1'-0"



6 WALL/TRUSS HURRICANE TIE DETAILS
S3.10 N.T.S.



TYPICAL — ALL DOUBLE PLATE CONDITIONS — UNO

10 SECTION S3.10 SCALE: 3"=1'-0"

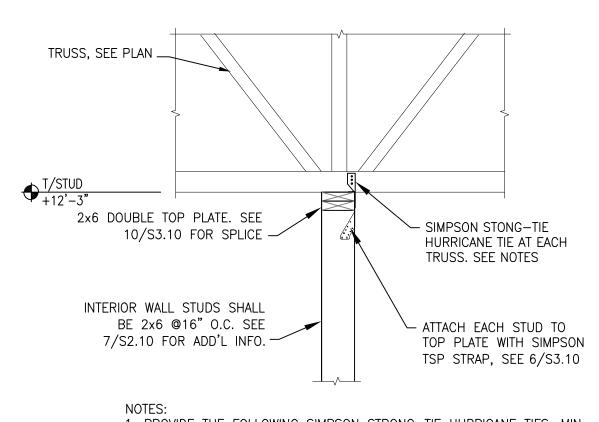
| | WINDOW OR DOOR HEADER/SILL SCHEDULE SPAN SECTION COMPOSITION JAMB STUDS (E.S.) WINDOW | | | | | | | | | | | |
|-----------|--|--|---|--------|--------|--------|--|--|--|--|--|--|
| | SPAN | PAN SECTION COMPOSITION JAMB STUDS (E.S.) JACK FULL HGT | | | | | | | | | | |
| | 0' TO 4'-0" | | (3)-2x8 W/ (2) 1/2" PLYWOOD PLATES | SINGLE | DOUBLE | SINGLE | | | | | | |
| TUDWALL | 4'-1" TO 6'-0" | | (3)-2x12 W/ (2) 1/2" PLYWOOD PLATES | DOUBLE | DOUBLE | SINGLE | | | | | | |
| ⊃ L S O X | 6'-1" TO 8'-0" | | (3) 1¾" × 9¼" L.V.L. | DOUBLE | TRIPLE | DOUBLE | | | | | | |
| Ñ | | | | | | | | | | | | |

NOTE:

1. SCHEDULE IS FOR HEADERS SUPPORTING ROOF LOADS ONLY
2. PROVIDE ADDITIONAL HEADER MEMBER FOR 2x8 WALL

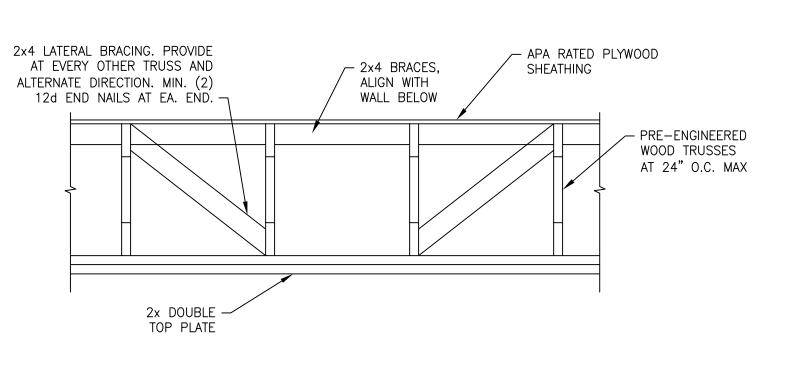
12 HEADER SCHEDULE

(\$3.10) NOT TO SCALE

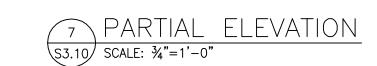


NOTES:
1. PROVIDE THE FOLLOWING SIMPSON STRONG—TIE HURRICANE TIES, MIN.:
AT TRUSSES — (1) SIMPSON H2.5A
AT TRUSS GIRDERS — LGT2/3/4 (TO MATCH TRUSS PLIES)

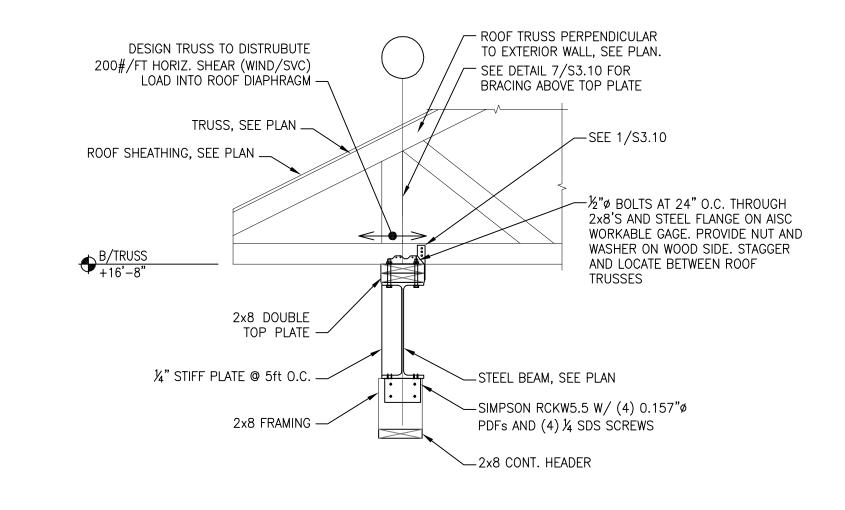
3 WALL SECTION S3.10 SCALE: 3/4"=1'-0"



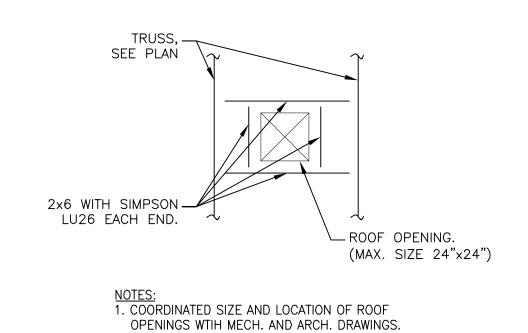
NOTES: 1. BRACING SHOWN IS IN ADDITION TO BRACING REQUIRED BY WOOD TRUSS MANUFACTURER. 2. PROVIDE TRIPLE STUD UNDER TRUSS GIRDER BEARING POINTS.



| CONNECTION | FASTENING ^{a, m} | LOCATION |
|--|---|---------------------|
| 1. JOIST TO SILL OR GIRDER | 3 - 8d COMMON (2½"x0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | TOENAIL |
| 2. BRIDGING TO JOIST | 2 - 8d COMMON (2½"x0.131") 2 - 3" x 0.131" NAILS 2 - 3" 14 GAGE STAPLES | TOENAIL EACH END |
| 3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST | 2 - 8d COMMON (2½"x0.131") | FACE NAIL |
| 4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST | 3 − 8d COMMON (2½"x0.131") | FACE NAIL |
| 5. 2" SUBFLOOR TO JOIST OR GIRDER | 2 - 16d COMMON (3½"x0.162") | BLIND AND FACE NAIL |
| 6. SOLE PLATE TO JOIST OR BLOCKING | 16d (3½"x0.135") @ 16" O.C. 3" x 0.131" NAILS @ 8" O.C. 3" 14 GAGE STAPLES @ 12" O.C. | TYPICAL FACE NAIL |
| SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL | 3" — 16d (3½"x0.135") @ 16" 4 — 3" x 0.131" NAILS @ 16" 4 — 3" 14 GAGE STAPLES @ 16" | BRACED WALL PANELS |
| 7. TOP PLATE TO STUD | 2 - 16d COMMON (3½"x0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | END NAIL |
| 8. STUD TO SOLE PLATE | 4 - 8d COMMON (2½"x0.131") 4 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | TOENAIL |
| | 2 — 16d COMMON (3½"x0.162") 3 — 3" x 0.131" NAILS 3 — 3" 14 GAGE STAPLES | END NAIL |
| 9. DOUBLE STUDS | 16d (3½"x0.135") @ 24" O.C. 3" x 0.131" NAILS @ 8" O.C. 3" 14 GAGE STAPLES @ 8" O.C. | FACE NAIL |
| 10. DOUBLE TOP PLATES | 16d (3½"x0.135") @ 16" O.C. 3" x 0.131" NAILS @ 12" O.C. 3" 14 GAGE STAPLES @ 12" O.C. | TYPICAL FACE NAIL |
| DOUBLE TOP PLATES | 8 - 16d COMMON (3½"x0.162") 12 - 3" x 0.131" NAILS 12 - 3" 14 GAGE STAPLES | LAP SPLICE |
| 11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE | 3 - 8d COMMON (2½"x0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | TOENAIL |
| 12. RIM JOIST TO TOP PLATE | 8d (2½"x0.131") @ 16" O.C. 3" x 0.131" NAIL @ 8" O.C. 3" 14 GAGE STAPLE @ 6" O.C. | TOENAIL |
| 13. TOP PLATES, LAPS, & INTERSECTIONS | 2 — 16d COMMON (3½"x0.162") 3 — 3" x 0.131" NAILS 3 — 3" 14 GAGE STAPLES | FACE NAIL |
| 14. CONTINUOUS HEADER, TWO PIECES | 16d COMMON (3½"x0.162") | 16" O.C. ALONG EDGE |
| 15. CEILING JOISTS TO PLATE | 3 - 8d COMMON (2½"x0.131") 5 - 3" x 0.131" NAILS 5 - 3" 14 GAGE STAPLES | TOENAIL |
| 16. CONTINUOUS HEADER TO STUD | 4 - 8d COMMON (2½"x0.131") | TOENAIL |
| 17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.10.4.1., TABLE 2308.10.4.1) | 3 - 16d COMMON (3½"x0.162") MIN TABLE 2308.10.4.1 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES | FACE NAIL |
| 18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1., TABLE 2308.10.4.1) | 3 - 16d COMMON (3½"x0.162") MIN TABLE 2308.10.4.1 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES | FACE NAIL |
| 19. RAFTER TO PLATE (SEE SECTION 2308.10.1., TABLE 2308.10.1) | 3 - 8d COMMON (2½"x0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | TOENAIL |
| 20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE | 2 - 8d COMMON (2½"x0.131") 2 - 3" x 0.131" NAILS 2 - 3" 14 GAGE STAPLES | FACE NAIL |
| 21. 1"x8" SHEATHING TO EACH BEARING WALL | 3 - 8d COMMON (2½″x0.131″) | FACE NAIL |
| | | |



4 WALL SECTION \$3.10 SCALE: 3/4"=1'-0"



8 TYP. ROOF OPENING 2'-0" x 2'-0" MAX \$33.10 N.T.S.

| CONNECTION | FASTENING a, m | LOCATION |
|---|---|---|
| 23. BUILT-UP CORNER STUDS | 16d COMMON (3½"x0.162") 3" x 0.131" NAILS 3" 14 GAGE STAPLES | 24" O.C. 16" O.C. 16" O.C. |
| 24. BUILT-UP GIRDER AND BEAMS | 20d COMMON (4"x0.192") 32" O.C. 3" x 0.131" NAIL @ 24" O.C. 3" 14 GAGE STAPLE @ 24" O.C. | FACE NAIL AT TOP AN BOTTOM STAGGERED O OPPOSITE SIDES |
| | 2 - 20d COMMON (4"x0.192") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | FACE NAIL AT ENDS AND AT EACH SPLICE |
| 25. 2" PLANKS | 16d COMMON (3½"x0.162") | AT EACH BEARING |
| 26. COLLAR TIE TO RAFTER | 3 - 10d COMMON (3"x0.148") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES | FACE NAIL |
| 27. JACK RAFTER TO HIP | 3 - 10d COMMON (3"x0.148") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES | TOENAIL |
| | 2 - 16d COMMON (3½"x0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | FACE NAIL |
| 28. ROOF RAFTER TO 2x RIDGE BEAM | 2 - 16d COMMON (3½"x0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | TOENAIL |
| | 2 - 16d COMMON (3½"x0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES | FACE NAIL |
| 29. JOIST TO BAND JOIST | 3 - 16d COMMON (3½"x0.162") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES | FACE NAIL |
| 30. LEDGER STRIP | 3 - 16d COMMON (3½"x0.162") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES | FACE NAIL |
| 31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD b SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) | ½" AND LESS 6d ^{c,l} 2¾"x0.113" NAIL ⁿ 1¾" 16 GAGE ^o | |
| | 1%2" TO ¾" 8d ^d OR 6d ^e 2¾"x0.113" NAIL ^P 2" 16 GAGE P %" TO 1" 8d ^c | |
| | 1½" TO 1¼" 10d ^d OR 8d ^e | |
| SINGLE FLOOR (COMBINATION SUBFLOOR—UNDERLAYMENT TO FRAMING): | ¾" AND LESS 6d ^e %" TO 1" 8d ^e 1½" TO 1¼" 10d ^d OR 8d ^e | |
| 32. PANEL SIDING (TO FRAMING) | ½" OR LESS 6d ^f %" 8d ^f | |
| 33. FIBERBOARD SHEATHING: ⁹ | ½" NO. 11 GAGE ROOFING NAIL h 6d COMMON NAIL (2"x0.113") NO. 16 GAGE STAPLE | |
| | 25/32" NO. 11 GAGE ROOFING NAIL ^h 8d COMMON NAIL (2½"x0.131") NO. 16 GAGE STAPLE [†] | |
| 34. INTERIOR PANELING | ¼" 4d ^j ¾" 6d ^k | |

a. Common or box nails are permitted to be used except where otherwise stated.

b. Nails spaced at 6" on center at edges, 12" at intermediate supports except 6" at supports where spans are 48" or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.

c. Common or deformed shank (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d - 3"x0.148").

d. Common (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d - 3"x0.148").

e. Deformed shank (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d - 3"x0.148").

f. Corrosion-resistant saiding (6d - 1½"x0.106"; 8d - 2½"x0.128") or casing (6d - 2"x0.099"; 8d - 2½"x0.113") nail.

a. Common (8d - 2 x0.113; 8d - 2½ x0.131; 10d - 3 x0.148").
b. Deformed shank (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d - 3"x0.148").
f. Corrosion-resistant siding (6d - 1½"x0.106"; 8d - 2½"x0.128") or casing (6d - 2"x0.099"; 8d - 2½"x0.113")
g. Fasteners spaced 3" on center at exterior edges and 6" on center at intermediate supports, when used as structural sheathing. Spacing shall be 6" on center on the edges and 12" on center at intermediate supports for nonstructural applications.
h. Corrosion-resistant roofing nails with 1½6" diameter head and 1½" length for ½" sheathing and 1¾" length for 2½32" sheathing.
i. Corrsion-resistant staples with nominal 1½6" crown and 1½" length for ½" sheathing and 1½" length for 2½32" sheathing. Panel supports at 16" (20" if strength axis in the long direction of the panel, unless noted otherwise.

i. Casing (1½"x0.080") or finish (1½"x0.072") nails spaced 6" on panel edges, 12" at intermediate supports. k. Panel supports at 24". Casing or finish nails spaced 6" on panel edges, 12" at intermediate supports. l. For roof sheathing applications, 8d nails (2½"x0.113") are the minimum required for wood strucutral panels. m. Staples shall have a minimum crown width of ½"s.

n. For roof sheathing applications, fasteners spaced 4" on center at edges, 8" at intermediate supports.

o. Fasteners spaced 4" on center at edges, 8" at intermediate supports for subfloor and wall sheathing and 3" on center at edges, 6" at intermediate supports for roof sheathing.

p. Fasteners spaced 4" on center at edges, 8" at intermediate supports.

GENERAL REVISIONS TO SHEET



Union County
Fire Station

Harbor Boulevard at Murphy Highway Blairsville, Georgia

30512



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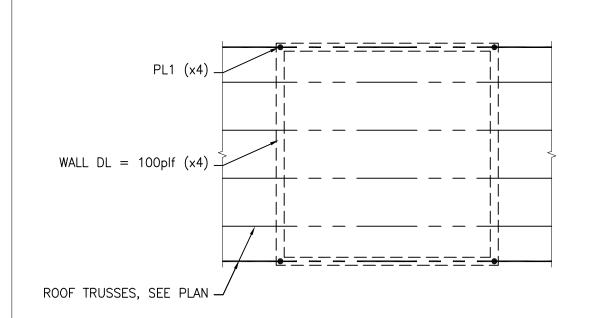
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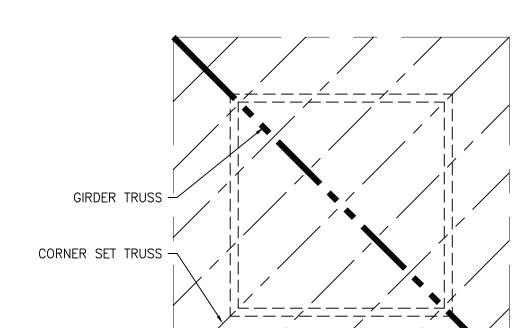
: Sections and Details

S-3.10

WOOD MEMBER FASTENING SCHEDULE

\$3.10 N.T.S.

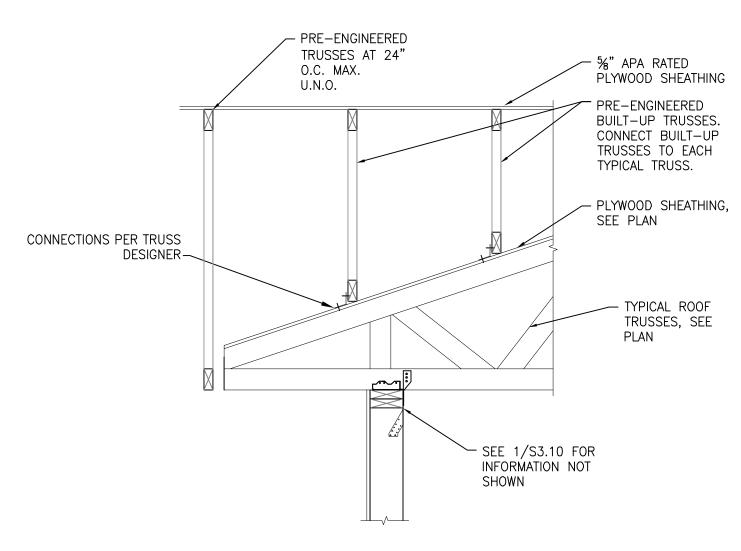




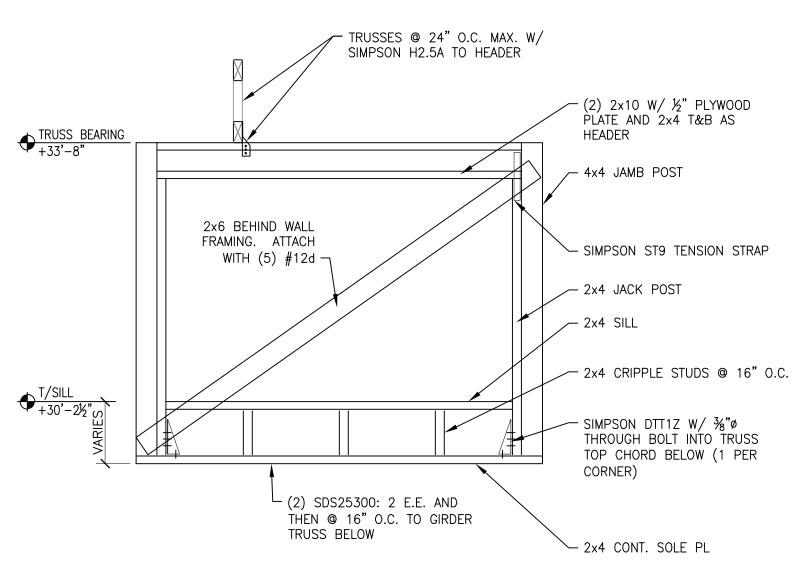
ROOF FRAMING PLAN NOTES:

- 1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER. FOR ADDITIONAL INFORMATION SEE ARCHITECTURAL DRAWINGS.
- 2. SEE ARCHITECTURE FOR TOP OF FINISHED ROOF ELEVATIONS, ROOF SLOPES AND ROOF DRAIN LOCATIONS.
- 3. ROOF TRUSS MANUFACTURER SHALL DESIGN THE FEATURE ROOF TRUSSES AND THE MAIN TRUSSES CONSIDERING ALL LOADS PROVIDED.
- 4. TRUSS BEARING ELEVATION = $+21'-7\frac{1}{2}$ " U.N.O.
- 5. TRUSSES SHALL BE SPACED AT 2'-0" O.C. MAX.
- 6. SEE SHEET S-0.10 FOR LOADS ON ROOF TRUSSES. SEE ROOF PLAN AND SECTIONS AND DETAILS FOR ADDITIONAL LOADS ON ROOF TRUSSES.
- 7. PROVIDE MULTIPLE TRUSSES (DOUBLE, ETC.) AS REQUIRED TO SUPPORT THE LOADS.
- 8. PL1 (ASD) = 1k# D; 1k Lr; +1k/-2k W; +1.2k/-0.8k E

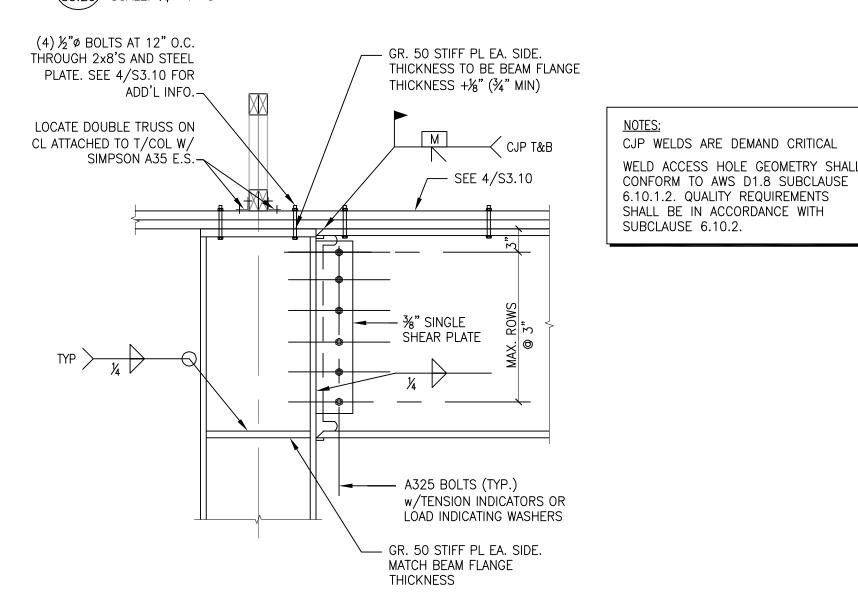
1 HIGH ROOF FRAMING PLAN S3.20 SCALE: NONE



8 OVERBUILD FRAMING
S3.20 SCALE: ¾"=1'-0"



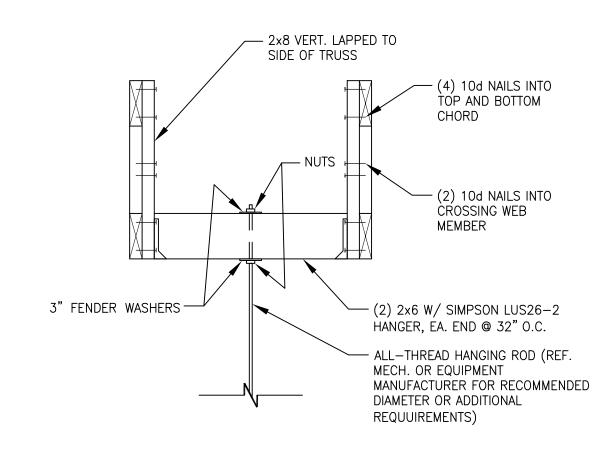
2 TYPICAL CUPOLA WALL ELEVATION
S3.20 SCALE: 3/4"=1'-0"



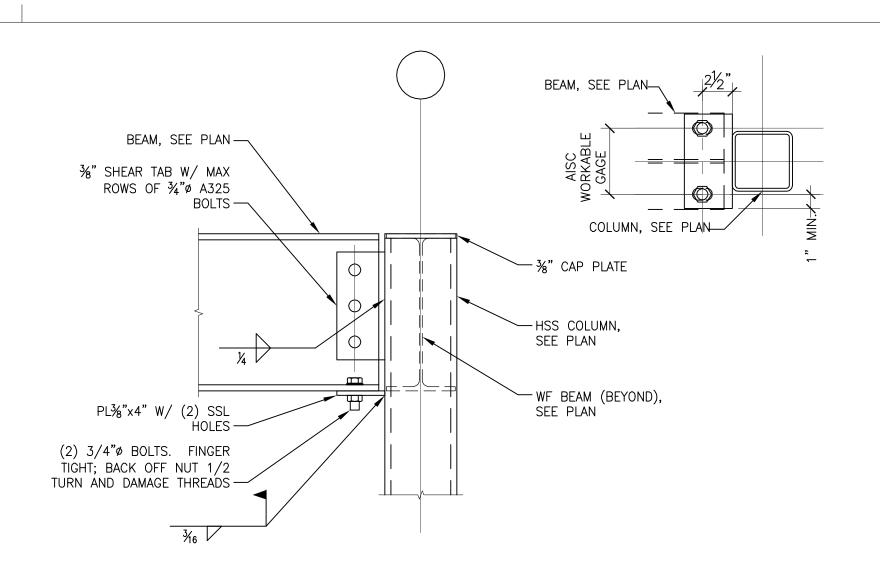
5 ROOF BEAM TO COLUMN MOMENT CONN.

S3.20 SCALE: NONE

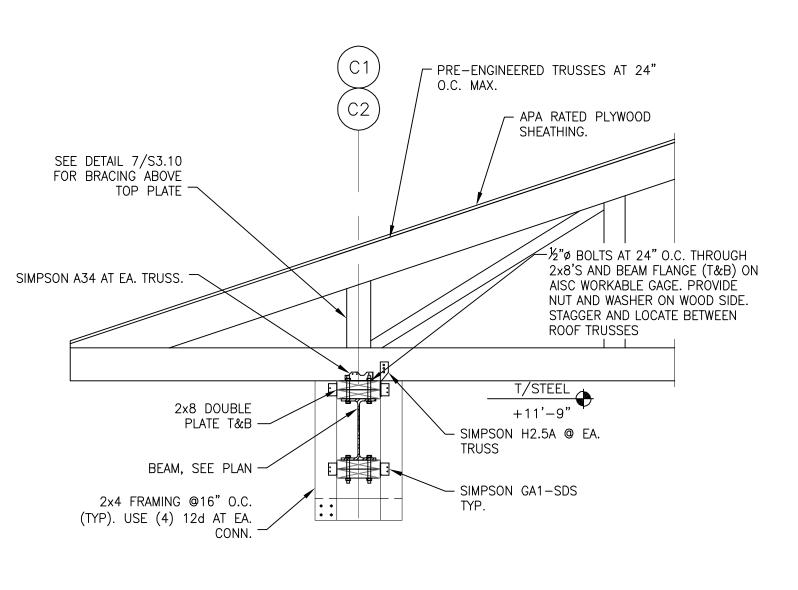
NOTE: SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION



9 SECTION AT EQUIPMENT HUNG FROM TRUSSES \$3.20 SCALE: 3/4"=1'-0"

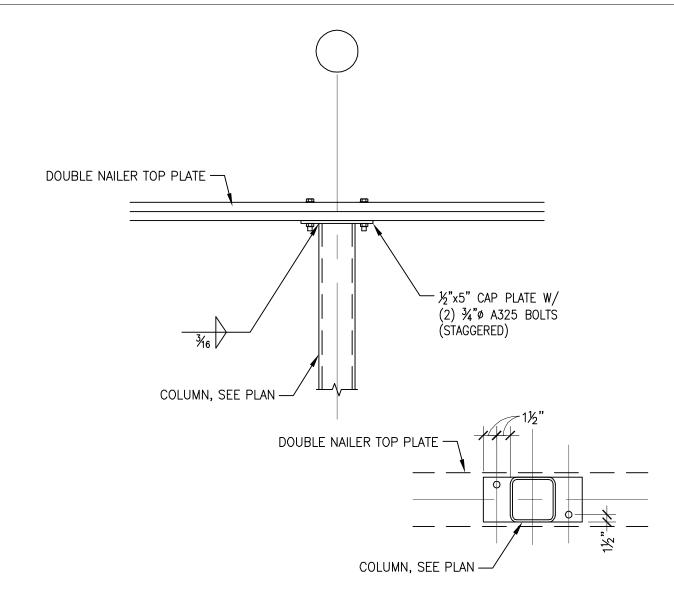


3 BEAM CONN. TO COLUMN S-302 SCALE: 1-1/2"=1'-0"



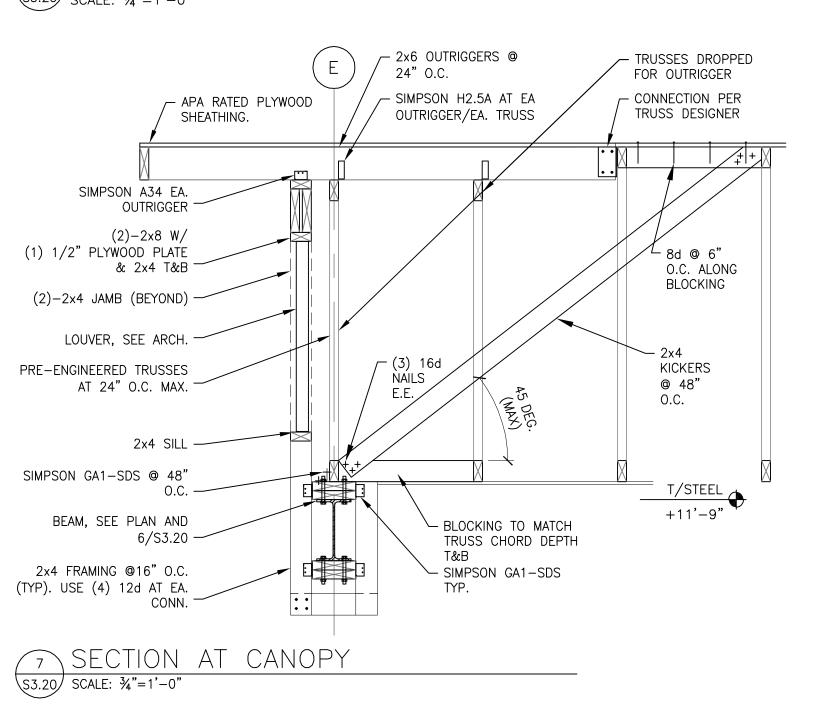
SECTION AT CANOPY

S3.20 SCALE: ¾"=1'-0"



FREESTANDING COLUMN IN WALL

s3.20 scale: 34"=1'-0"



Union County Fire Station

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Tower Place Building.

A Professional Corporationfor the Practice of Architecture

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C 2 20

GENERAL REVISIONS TO SHEET



SPECIFICATIONS

DUCTWORK AND ACCESSORIES:

INDUSTRY STANDARDS: COMPLY WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION) HVAC DUCT CONSTRUCTION STANDARDS, RECOMMENDATIONS FOR FABRICATION, GAUGES, CONSTRUCTION AND DETAILS, AND INSTALLATION PROCEDURES, EXCEPT AS OTHERWISE INDICATED.

COMPLY WITH ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS) FUNDAMENTALS HANDBOOK RECOMMENDATIONS, EXCEPT AS OTHERWISE INDICATED.

DUCTWORK METAL AND GAUGES: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH ASTM A525 G90 ZINC COATING, MILL PHOSPHATIZED. GAUGES TO COMPLY WITH SMACNA STANDARDS.

DUCT SEALANT: NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT (TYPE APPLICABLE FOR THE FABRICATION/INSTALLATION DETAIL) AS COMPOUNDED AND RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.

DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE UPPER ATTACHMENT, HANGERS OF GALVANIZED STEEL STRAPS, OR STEEL RODS AND LOWER ATTACHMENT FOR SUPPORT OF DUCTWORK. HANGING/SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA REQUIREMENTS.

EXPOSED DUCTWORK SHALL BE DOUBLE-WALL SPIRAL PIPE WITH PAINT GRIP UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER.

VOLUNTARY ALTERNATE EXPOSED DUCTWORK SHALL BE SINGLE-WALL SPIRAL PIPE UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER. ALL EXPOSED DUCTWORK SHALL BE LINED IN LIEU OF WRAPPED. DUCT LINER THERMAL RESISTANCE SHALL MEET THE MINIMUM VALUES SPECIFIED IN PARAGRAPH 'DUCT INSULATION' BELOW.

DUCT INSULATION

R-5 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN UNCONDITIONED SPACES
R-8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING
R-8 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY

DIFFUSERS, GRILLES, & REGISTERS:

EGGCRATE GRILLE:

PLAQUE DIFFUSERS:

RETURN GRILLES SHALL BE TITUS MODEL 50F FOR THE SIZES AND MOUNTING TYPES AS SHOWN ON THE PLANS AND OUTLET SCHEDULE. RETURN GRILLES MUST PROVIDE A FREE AREA OF AT LEAST 90%. OUTER BORDERS SHALL BE CONSTRUCTED OF HEAVY EXTRUDED ALUMINUM WITH A THICKNESS OF 0.040-0.050 INCH AND SHALL HAVE COUNTERSUNK SCREW HOLES FOR A NEAT APPEARANCE. BORDER WIDTH SHALL BE 11/4 INCHES ON ALL SIDES AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. CHOICE OF THREE SIZES OF ALUMINUM GRID: 1/2 X 1/2 X 1/2 INCH, 1/2 X 1/2 X 1 INCH, OR 1 X 1 X 1 INCH SHALL BE AVAILABLE.

OPTIONAL OPPOSED-BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

ARCHITECTURAL SQUARE PANEL CEILING DIFFUSERS SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE FACE PANEL IS REMOVABLE BY MEANS OF FOUR HANGER BRACKETS. THE EXPOSED SURFACE OF THE FACE PANEL SHALL BE SMOOTH, FLAT, AND FREE OF VISIBLE FASTENERS.
THE BACK OF THE FACE PANEL SHALL HAVE AN AERODYNAMICALLY SHAPED, ROLLED EDGE TO ENSURE A TIGHT HORIZONTAL DISCHARGE PATTERN. CEILING DIFFUSERS WITH A 24 X 24-INCH

FULL FACE SHALL HAVE NO LESS THAN AN 1.8 X 1.8-INCH FACE PANEL SIZE. CEILING DIFFUSERS

WITH A 12 X 12-INCH FULL FACE SHALL HAVE NO LESS THAN A 9 X 9-INCH FACE PANEL SIZE.

THE BACKPAN SHALL BE ONE PIECE PRECISION DIE-STAMPED AND SHALL INCLUDE AN INTEGRALLY DRAWN INLET. THE DIFFUSER NECK SHALL HAVE A MINIMUM OF 11/4-INCH DEPTH AVAILABLE FOR DUCT CONNECTION.

THE FINISH SHALL BE #26 WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 3 | 5°F FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H.

THE PAINT MUST PASS A 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250-HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50-INCH POUND FORCE APPLIED.

OPTIONAL ROUND DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL. DAMPER MUST BE OPERABLE FROM THE FACE OF THE DIFFUSER. OPTIONAL DIRECTIONAL BLOW CLIPS SHALL BE AVAILABLE TO RESTRICT THE DISCHARGE AIR IN CERTAIN DIRECTIONS.

OPTIONAL MOLDED INSULATION BLANKET SHALL BE AVAILABLE. THE INSULATION WILL BE R-G, FOIL-BACKED, AND PROVIDE AN ADDITIONAL I-INCH GAP AROUND THE NECK TO INSTALL INSULATED FLEX DUCT.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE SQUARE PANEL DIFFUSER. THE DIFFUSER SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-1991.

GRAVITY HOOD

THE HOOD SHALL BE CONSTRUCTED OF ALUMINUM. THE INTERNAL STRUCTURE SHALL BE GALVANIZED STEEL.

THE CURB CAP SHALL BE NON-HINGED. THE HOUSING SHALL BE CONSTRUCTED OF ALUMINUM AND IN THE WINDBAND AND CURB CAP. THE WINDBAND SHALL BE ONE PIECE SPUN ALUMINUM CONSTRUCTION AND SHALL MAINTAIN THE ORIGINAL MATERIAL THICKNESS THROUGHOUT THE HOUSING. THE WINDBAND SHALL INCLUDE AN INTEGRAL ROLLED BEAD. THE CURB CAP SHALL INCLUDE PREPUNCHED MOUNTING HOLES TO ENSURE CORRECT ATTACHMENT TO THE ROOF.

REFER TO THE EQUIPMENT SCHEDULE FOR A FULL LISTING OF REQUIRED HOOD ACCESSORIES.

SPECIFICATIONS

HEAT PUMP:

EQUIPMENT

— FACTORY ASSEMBLED, SINGLE PIECE, AIR-COOLED HEAT PUMP UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE OF R-4 I OA, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD

START--UP. UNIT CABINET

— UNIT CABINET WILL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT.

— CONDENSER FAN WILL BE DIRECT--DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD.

— CONDENSER FAN MOTORS WILL BE TOTALLY ENCLOSED, I-PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS.

— SHAFTS WILL BE CORROSION RESISTANT.
— FAN BLADES WILL BE STATICALLY AND DYNAMICALLY BALANCED.
— CONDENSER FAN OPENINGS WILL BE EQUIPPED WITH STEEL WIRE SAFETY GUARDS.

COMPRESSOR

— COMPRESSOR WILL BE HERMETICALLY SEALED.

— COMPRESSOR WILL BE MOUNTED ON RUBBER VIBRATION ISOLATORS.

CONDENSER COIL

— CONDENSER COIL WILL BE AIR COOLED.

— COIL WILL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES WHICH ARE THEN CLEANED, DEHYDRATED, AND SEALED.

REFRIGERATION COMPONENTS

— REFRIGERATION CIRCUIT COMPONENTS WILL INCLUDE LIQUID-LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR--LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF R-4 I OA REFRIGERANT, POE COMPRESSOR OIL, ACCUMULATOR, AND REVERSING

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

FAN COIL UNIT:

GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE FAN COIL UNIT MANUFACTURER'S STANDARD MATERIALS AND COMPONENTS AS INDICATED BY PUBLISHED PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY MANUFACTURER, AND AS REQUIRED FOR A COMPLETE INSTALLATION.

COOLING COILS: EXCEPT AS OTHERWISE INDICATED, PROVIDE MANUFACTURER'S STANDARD COIL OF INDICATED TYPE AND RATED FOR INDICATED CAPACITY. COPPER TUBE COILS, MECHANICALLY EXPANDED INTO ALUMINUM PLATE FINS; RATED AT 250 PSIG AND LEAK TESTED AT 350 PSIG MIN. AIR PRESSURE. PROVIDE MANUAL AIR VENTS.

ELECTRIC HEATING COILS SHALL BE AN OPEN GRID TYPE WITH FACTORY INSTALLED HIGH LIMIT CONTROL. HEATER SHALL BE FULLY ACCEPTABLE THROUGH THE DISCHARGE GRILLE OPENINGS.

DIRECT DRIVE TYPE. BALANCED STATICALLY AND DYNAMICALLY, AND OF INDICATED CAPACITY.

MOTORS SHALL BE OF INDICATED CAPACITY, 3 SPEED, PERMANENT SPLIT CAPACITOR,
INSTALLED FOR EASY REMOVAL. PROVIDE MOTORS WITH AUTOMATIC-RESET AND INTEGRAL
THERMAL OVERLOAD PROTECTION. MOTORS SHALL BE CAPABLE OF OPERATING AT

TEMPERATURES INDICATED ON DRAWINGS WITHOUT OVERLOADING. MOTOR SHALL BE

THE FAN SHALL BE A CENTRIFUGAL, FORWARD CURVED, DOUBLE WIDTH, DOUBLE INLET.

CABINETS: CABINETS SHALL BE FABRICATED OF 18 GAUGE STEEL AND HAVE BAKED ENAMEL FINISH. ALL SURFACES IN CONTACT WITH AIR STREAM SHALL BE INSULATED WITH HALF INCH THICK, 1-1/2 POUND DENSITY, MATT FACED, GLASS FIBER INSULATION.

THE FILTER SHALL BE ONE INCH THICK, THROWAWAY GLASS FIBER TYPE.

THE DRAIN PAN SHALL BE REMOVABLE AND HAVE SELF EXTINGUISHER THREE (3) POUND DENSITY CELLULAR POLYSTYRENE PLASTIC LINER, THE DRAIN PAN SHALL EXTEND UNDER THE ENTIRE COIL SECTION.

THERMOSTAT SHALL BE 7-DAY PROGRAMMABLE TYPE.

CAPABLE OF FIELD OILING AS REQUIRED.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

GUARANTEE

GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.

GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.

GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

CEILING FAN:

CEILING MOUNTED EXHAUST FANS SHALL BE OF THE CENTRIFUGAL DIRECT DRIVE TYPE. THE FAN HOUSING SHALL BE CONSTRUCTED OF STEEL. THE PLASTIC DUCT COLLAR SHALL BE A TAPERED SLEEVE FOR EASE OF CONNECTION TO 3 IN AND 4 IN ROUND DUCTWORK AND SHALL INCLUDE A BACKDRAFT DAMPER. THE GRILLE SHALL BE CONSTRUCTED OF NON-YELLOWING HIGH STRENGTH POLYMER AND ATTACHED TO THE HOUSING WITH TORSION SPRINGS. THE WHEELS SHALL BE CONSTRUCTED OF HIGH STRENGTH POLYMER. THE ACCESS FOR WIRING SHALL BE EXTERNAL. THE MOTOR DISCONNECT SHALL BE INTERNAL AND OF THE PLUG IN TYPE.

ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEALS FOR SOUND AND AIR PERFORMANCE AND SHALL BE U.L. LISTED.

KITCHEN HOOD DUCT SYSTEM:

EXHAUST DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURE INSTALLATION REQUIREMENTS. SYSTEM IS TO BE COMPLETE, FROM HOOD OUTLETS TO FAN INLET, INCLUDE TRANSITIONS TO HOOD OUTLETS, ADJUSTABLE PIPE LENGTHS, SUPPORT PLATES, GUIDE RINGS, ACCESS DOORS, AND THRU WALL FIRE STOP PENETRATIONS.

EXHAUST DUCTS FOR DOMESTIC RANGE HOODS INSTALLED IN COMMERCIAL APPLICATIONS.

EXHAUST DUCTS FOR DOMESTIC RANGE HOODS INSTALLED IN COMMERCIAL APPLICATIONS SHALL BE VENTED TO THE OUTSIDE AND SHALL BE CONSTRUCTED OF (A) TYPE B VENT, OR (B) SMOOTH WALL DUCT CONSTRUCTED OF GALVANIZED OR STAINLESS STEEL WITH A MINIMUM DUCT THICKNESS OF 0.0157 INCHES (0.40 MM) OR CONSTRUCTED OF ALUMINUM OR COPPER WITH A MINIMUM DUCT THICKNESS OF 0.023 INCHES (0.58MM).

SPECIFICATIONS

APPLICABLE CODES:

INTERNATIONAL FIRE CODE (IFC), 2018 EDITION

2020 IFC GA AMENDMENTS
INTERNATIONAL PLUMBING CODE (IPC), 2018 EDITION

2020 IPC GA AMENDMENTS
INTERNATIONAL MECHANICAL CODE (IMC), 2018 EDITION
2020 IMC GA AMENDMENTS

2020 IMC GA AMENDMENTS
INTERNATIONAL FUEL GAS CODE (IFGC), 2018 EDITION

2020 IFGC GA AMENDMENTS
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
2020 SUPPLEMENTS AND AMENDMENTS

EXISTING CONDITIONS:

CONTRACTOR SHALL VISIT THE SITE AND UNDERSTAND JOB CONDITIONS BEFORE SUBMITTING A PROPOSAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITY SERVICES PRIOR TO SUBMITTING HIS PROPOSAL. NO CONSIDERATION WILL BE GIVEN TO CLAIMS FOR EXTRA COST ARISING FROM CONTRACTOR'S FAILURE TO BE FULLY COGNIZANT OF JOB OR SITE CONDITIONS EXISTING AT TIME OF ACCEPTANCE OF BID.

ACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, SUPPORT EXISTING ACTIVE SEWERS, GAS AND OTHER SERVICES REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE SERVICES ARE ENCOUNTERED THAT REQUIRE RELOCATION, RELOCATE AS APPROVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO

INACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, REMOVE, CAP OR PLUG INACTIVE SERVICES, AS INDICATED.

INTERRUPTION OF SERVICES: WHERE WORK MAKES TEMPORARY SHUT-DOWNS OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTION TO EXISTING WORK.

WHERE EXISTING WALLS, CEILINGS, FLOORS, ETC., ARE CUT OR OTHERWISE DAMAGED DURING CONSTRUCTION, REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION.

SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY; NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.

SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

TEST AND BALANCE

TEST AND BALANCE (TAB) CONTRACTOR SHALL HOLD A CURRENT NATIONAL BALANCING COUNCIL (NBC) CERTIFICATION AND POSSESS ACCURATE AND CALIBRATED INSTRUMENTS. TAB WORK AND REPORTS SHALL BE PER NBC PRACTICAL STANDARDS, PROCEDURES AND FORMS. ACCEPTIBLE ALTERNATIVE TAB FIRM CERTIFICATIONS/PROCEDURES: NEBB, AABC, OR

PRIOR TO COMMENCEMENT OF THE TAB WORK, THE MECHANICAL SYSTEMS ARE TO BE STARTED AND FULLY FUNCTIONING. A CHECKLIST PRIOR TAB WORK IS TO BE SENT TO THE INSTALLING CONTRACTOR AND RETURNED ATTESTING TO THE READINESS OF THE SYSTEMS FOR BALANCING.

PREFERRED TAB FIRM: P-TAB.COM

GENERAL NOTES:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE-CLEAR DIMENSIONS.

PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK, PAINT BLACK BEHIND ALL GRILLES.

ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.

MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE.

PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.

FLASHING EACH ROOF PENETRATION.

MECHANICAL SCOPE.

ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A.

ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR

SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING

PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE

| LEGEND | |
|---------------|---|
| SYMBOLS | DESCRIPTION |
| XI X2 | DIFFUSER, GRILLE, REGISTER OR LOUVER TAG XI = TYPE, X2 = CFM |
| \boxtimes | POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4-WAY AIR PATTERN (UNLESS OTHERWISE NOTED) |
| | NEGATIVE PRESSURE (AIR GOES IN) GRILLE |
| \rightarrow | POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY) |
| → | NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST) |
| 111111 | FLEXIBLE DUCT |
| Γ | MANUAL VOLUME DAMPER (MVD) |
| | BACKDRAFT DAMPER (BDD) |
| T | THERMOSTAT |
| H | HUMIDISTAT |
| (5) | REMOTE TEMPERATURE SENSOR |
| | INTERNALLY LINED DUCT |
| | DUCT UP |
| | DUCT UP |
| | DUCT DOWN |
| | SUPPLY DUCT |
| UNIT # | EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLI INSTANCES. |

ABBREVIATIONS MOTOR ABOVE FINISHED FLOOR BDD BACKDRAFT DAMPER MAKE-UP AIR AHU AIR HANDLING UNIT MAKE-UP AIR UNIT CO2 CARBON DIOXIDE MANUAL AIR VENT CONDENSING UNIT I .000 BTU PER HR MBH CONDENSATE DRAIN MFCU MINI FAN COIL UNIT DRY BULB MINI HEAT PUMP DEHUMIDIFIER MANUAL VOLUME DAMPER EXHAUST AIR NORMALLY CLOSED ENTERING AIR TEMPERATURE NORMALLY OPEN ELECTRIC DUCT HEATER OUTSIDE AIR EXHAUST FAN OPPOSED BLADE DAMPER EXTERNAL STATIC PRESSURE POWER INDUCTION UNIT ELECTRIC WALL HEATER RETURN AIR DEGREES FAHRENHEIT RELIEF HOOD FCU FAN COIL UNIT ROOFTOP UNIT FIRE DAMPER SUPPLY AIR COMBINATION FIRE/SMOKE DAMPER | SP FSD STATIC PRESSURE FURN FURNACE I.N.O UNLESS NOTED OTHERWISE HUMIDISTAT UNDER CUT DOOR INTAKE HOOD VARIABLE AIR VOLUME LEAVING AIR TEMPERATURE WET BULB LEAVING WATER TEMPERATURE WALL LOUVER

Jnion County Fire Station

Harbor Boulevard at Murphy Highway Blairsville, Georgid



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A Professional Corporation for the Practice of Architecture

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

PROJECT NO.

·404.521.2118 (f)

: SHEET TITLE : GENERAL

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

| | INDOOR UNIT | | | | | | | OUTDOOR UNIT COMBINED COOLING CAPACITIES | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|-------|------------|---------|---------|-----------|--------|--|------|------|--------|----------|---------|-------|-------|-------|----------|----------|----------|----------|---|---|-----|-------|-----|-----|
| | | TOTAL | | | | AUXILIARY | | BASIS | | | | BASIS | NOMINAL | | | | COOLIN | IG | | | | | REM | 1ARKS | ŝ | |
| MARK | SERVES | 5.A. | O.A. | E.S.P. | MOTOR | HEATER | WEIGHT | OF | MIN. | MIN. | WEIGHT | OF | TONNAGE | TOTAL | SENS | LAT | Ent. Tdb | Ent. Twb | Lvg. Tdb | Lvg. Twb | | | | | | |
| | | (CFM) | (CFM) | (IN WG) | (hp) | (kW) | (LB6) | DESIGN | SEER | HSPF | (LBS) | DESIGN | (TONS) | (MBH) | (MBH) | (MBH) | (℉) | (۴) | (°F) | (°F) | 1 | 2 | 3 4 | 4 5 | 5 (| 6 7 |
| FCU-I / HP-I | KITCHEN | 1,000 | 6 5 | 0.50 | I/3 ECM | 7.5 | 122.0 | FB4CNP030 | 14.0 | 8.2 | 186.0 | 25HCE430 | 2.5 | 28.1 | 21.1 | 7.0 | 76.2 | 64.7 | 56.0 | 55.0 | Х | X | X i | x > | x : | х х |
| FCU-2 / HP-2 | OFFICES & STORAGE | 1,000 | 85 | 0.50 | I/3 ECM | 7.5 | 122.0 | FB4CNP030 | 14.0 | 8.2 | 186.0 | 25HCE430 | 2.5 | 28.8 | 21.5 | 7.3 | 76.6 | 64.9 | 56.0 | 55.0 | Х | X | x ? | x > | × ; | x x |
| FCU-3 / HP-3 | SLEEPIN QUARTERS | 1,200 | 50 | 0.50 | 1/2 ECM | 7.5 | 122.0 | FB4CNP036 | 14.0 | 8.2 | 189.0 | 25HCE436 | 3.0 | 34.4 | 25.4 | 9.0 | 75.8 | 64.5 | 55.5 | 54.5 | Х | X | x , | x x | x ; | x x |

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.

B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-I 0% OF SCHEDULED CAPACITIES.

C. BASIS OF DESIGN: CARRIER. REFER TO SPECIFICATIONS.

ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX

D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.

E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO

SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

REMARKS (APPLY AS SCHEDULED):

I. PROGRAMMABLE THERMOSTAT.

2. LOW AMBIENT PACKAGE

3. DISPOSABLE FILTER.

4. ANTI-SHORT CYCLE TIMER.

5. INDOOR FAN DELAY KIT.

6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT.

REFER TO THE ELECTRICAL DOCUMENTS.

7. MOUNT OUTDOOR HEAT PUMP ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND

SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.

FAN SCHEDULE

| | | | | | | | MAX. | | BASIS | | PE | MAR | KG. | |
|------|---------|-----------------|-----|---------|----------|--------|---------|-------------------------|--------------|---|----|--------|-----|---|
| MARK | DUTY | TYPE | СЕМ | E.S.P. | MOTOR | DRIVE | NOISE | CONTROL | OF DESIGN | | 1 | IVIAIN | | |
| | | | | (IN WG) | (W / hp) | | (SONES) | BY | MODEL | | 2 | 3 | 4 | 5 |
| EF-A | EXHAUST | CEILING CABINET | 70 | 0.5 | 100 | DIRECT | 2.0 | SWITCHED WITH LIGHTS | GREENHECK SP | Х | Х | Х | | |

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS

B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY. REMARKS (APPLY AS SCHEDULED): I. FAN SPEED CONTROLLER.

2. FACTORY DISCONNECT SWITCH/PLUG.

3. GRAVITY BACKDRAFT DAMPER. 4. FACTORY INSULATED ROOF CURB.

UNIT HEATER - ELECTRIC

| | FA | AN | HEAT | ING | | |
|-------|---------|-------|------|--------|-----------------|--------|
| MARK | AIRFLOW | MOTOR | KW | STAGES | BASIS OF DESIGN | WEIGHT |
| | (CFM) | (HP) | | | | (LBS) |
| EUH-A | 350 | 1/100 | 5.0 | 2 | QMARK MUH | 27.0 |
| | | | | | | |

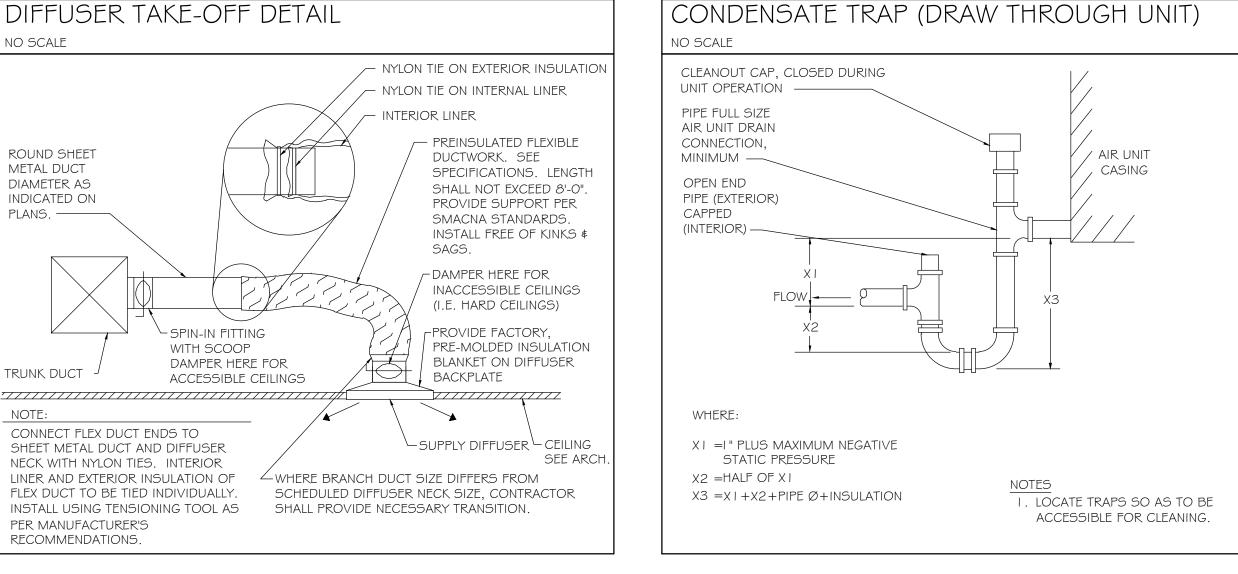
NOTES: (APPLY TO ALL)

A. DISCONNECT SWITCH PROVIDED BY THE ELECTRICAL SUBCONTRACTOR.

B. 24V CONTROL TRANSFORMER AND REMOTE / WALL MOUNTED THERMOSTAT. THERMOSTAT SET TO 50ºF.

C. AUTOMATIC THERMAL CUT-OUT.

D. FAN DELAY. E. ADJUSTABLE DISCHARGE LOUVERS. DIFFUSER TAKE-OFF DETAIL - NYLON TIE ON EXTERIOR INSULATION - NYLON TIE ON INTERNAL LINER - INTERIOR LINER - PREINSULATED FLEXIBLE ROUND SHEET DUCTWORK. SEE METAL DUCT SPECIFICATIONS. LENGTH DIAMETER AS SHALL NOT EXCEED 8'-0". INDICATED ON PROVIDE SUPPORT PER PLANS. ---SMACNA STANDARDS. INSTALL FREE OF KINKS \$ - DAMPER HERE FOR INACCESSIBLE CEILINGS (I.E. HARD CEILINGS) PROVIDE FACTORY, PRE-MOLDED INSULATION WITH SCOOP BLANKET ON DIFFUSER DAMPER HERE FOR TRUNK DUCT -ACCESSIBLE CEILINGS BACKPLATE CONNECT FLEX DUCT ENDS TO -SUPPLY DIFFUSER - CEILING SHEET METAL DUCT AND DIFFUSER NECK WITH NYLON TIES. INTERIOR LINER AND EXTERIOR INSULATION OF ∠WHERE BRANCH DUCT SIZE DIFFERS FROM FLEX DUCT TO BE TIED INDIVIDUALLY. SCHEDULED DIFFUSER NECK SIZE, CONTRACTOR INSTALL USING TENSIONING TOOL AS SHALL PROVIDE NECESSARY TRANSITION.



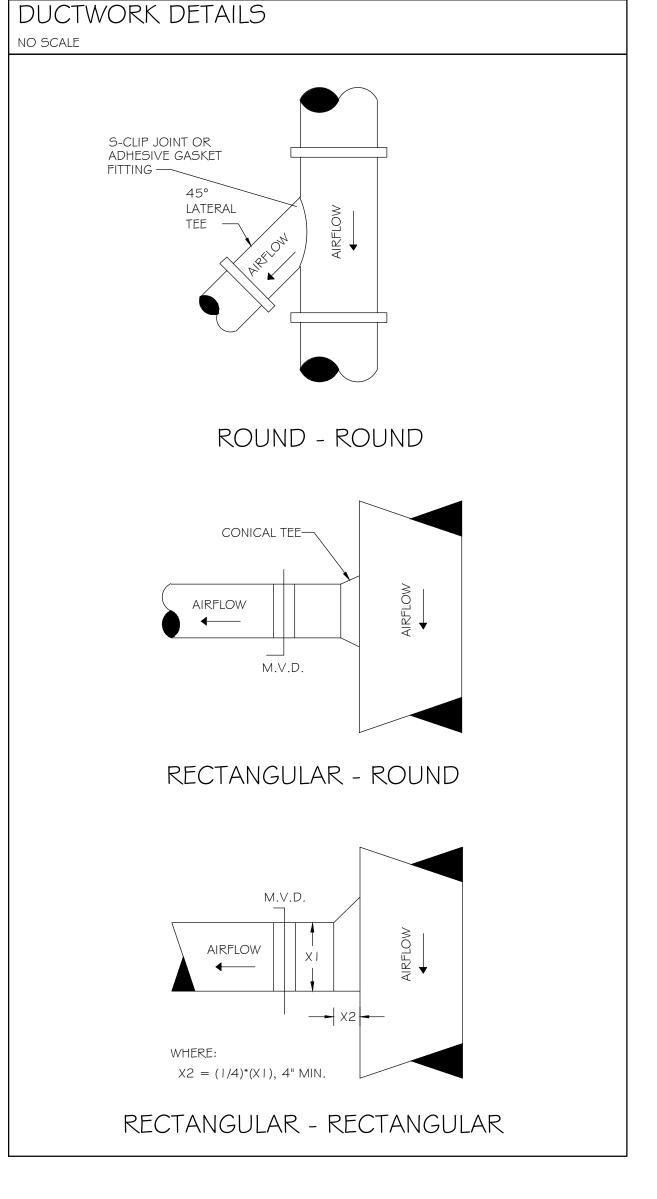
NO SCALE

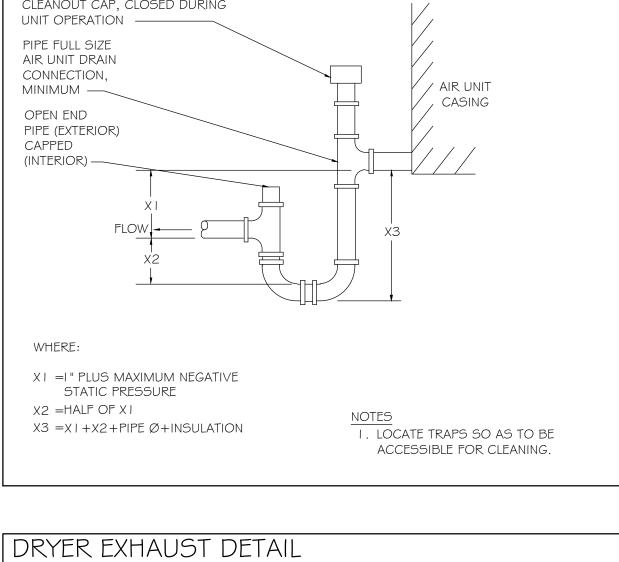
ASSEMBLIES —

VOLUME DAMPER -

DRAFT DAMPER-

PROVIDE FIRESTOPPING AT PENETRATION OF RATED





— EXTEND DRYER VENT T U.L. LISTED CAP WITH

BACKDRAFT DAMPER.

- MOUNT UNIT ON ANGLE

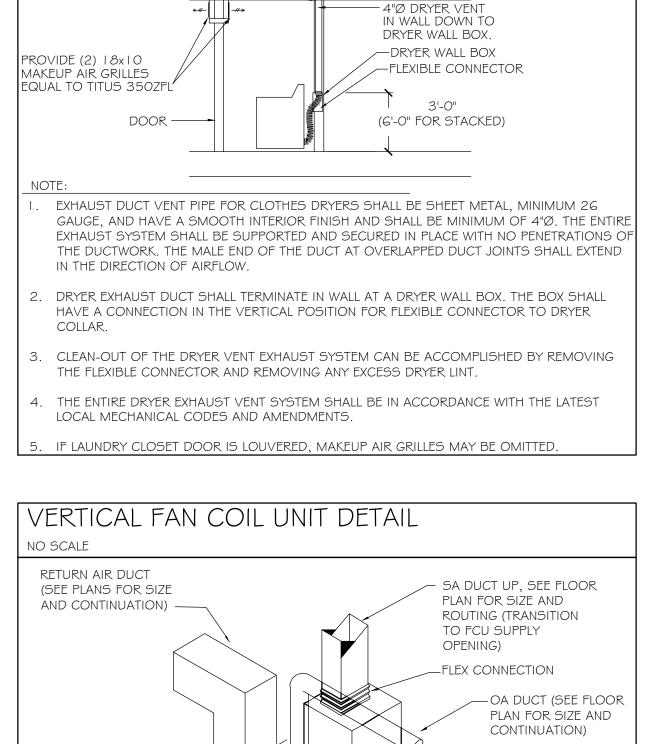
IRON FRAME

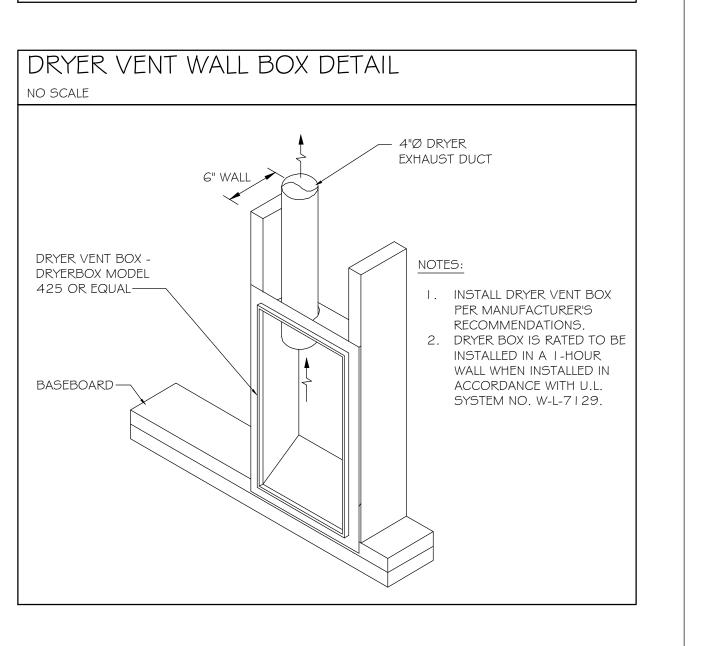
— FILTER ACCESS

— FLOAT SWITCH TO

SHUT DOWN UNIT

—AUXILIARY DRAIN PAN





ROUTE PRIMARY CONDENSATE LINE TO HUB DRAIN, SEE PLMB. DWGS.

Harbor Boulevard



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> Peachtree Corners, Georgia 30092
> 404.330.9798
> PROJECT # 121564

Gardner Spencer Smith

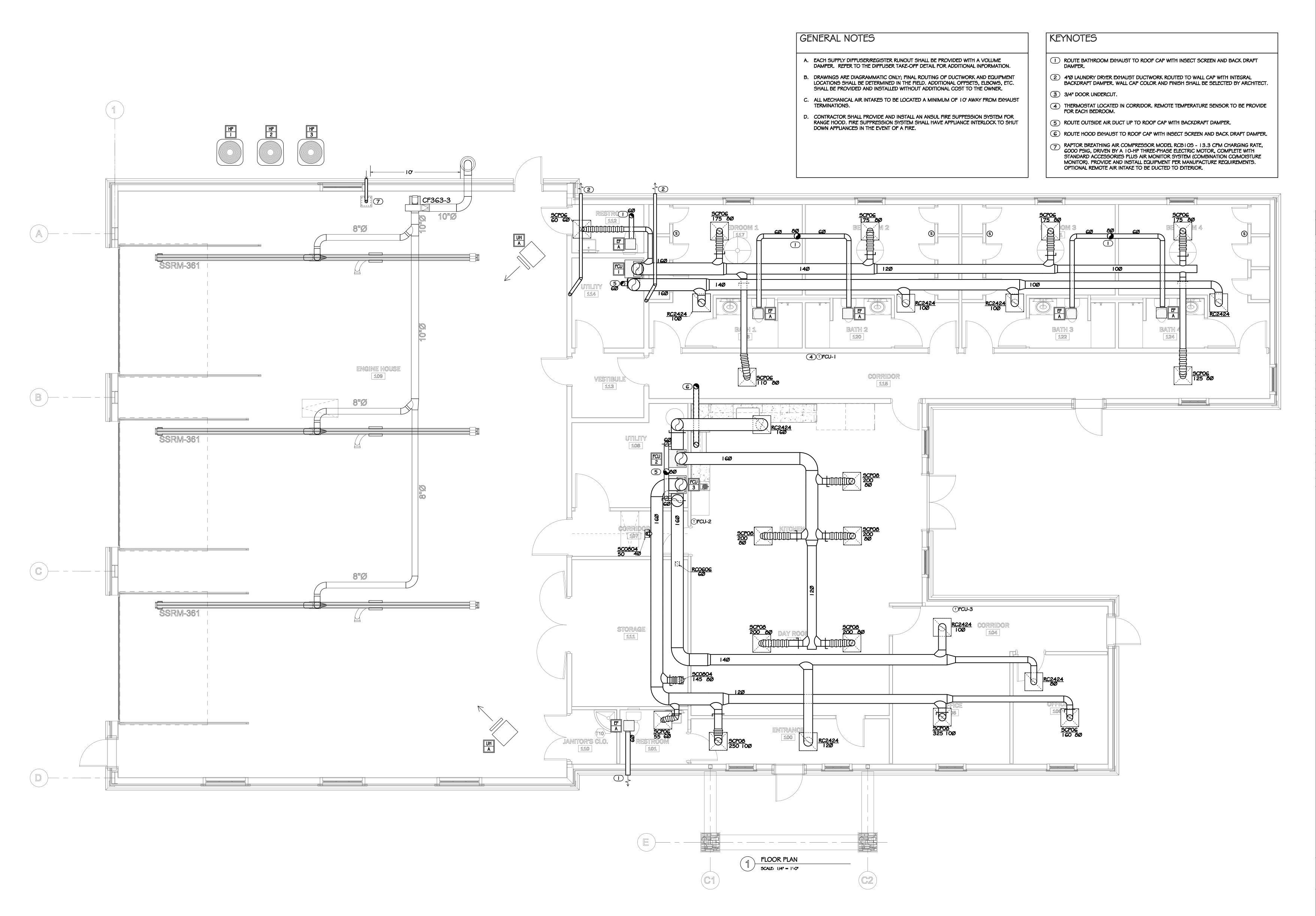
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for the Practice of Architecture

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

PROJECT NO. :20112

SHEET TITLE DETAILS AND :SCHEDULES





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Murphy Highway

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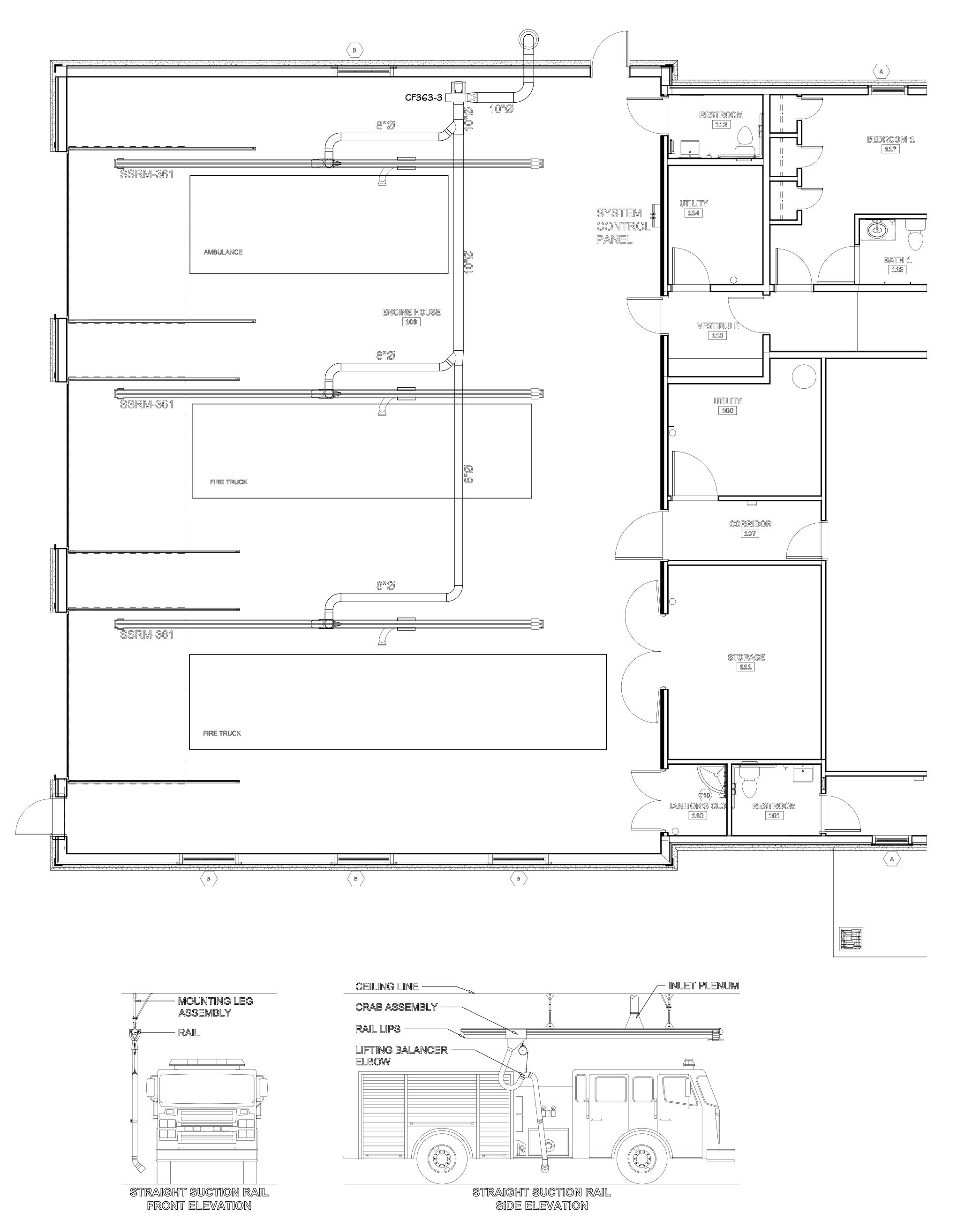
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:20112

: SHEET TITLE :FLOOR PLAN

SHEET NO.



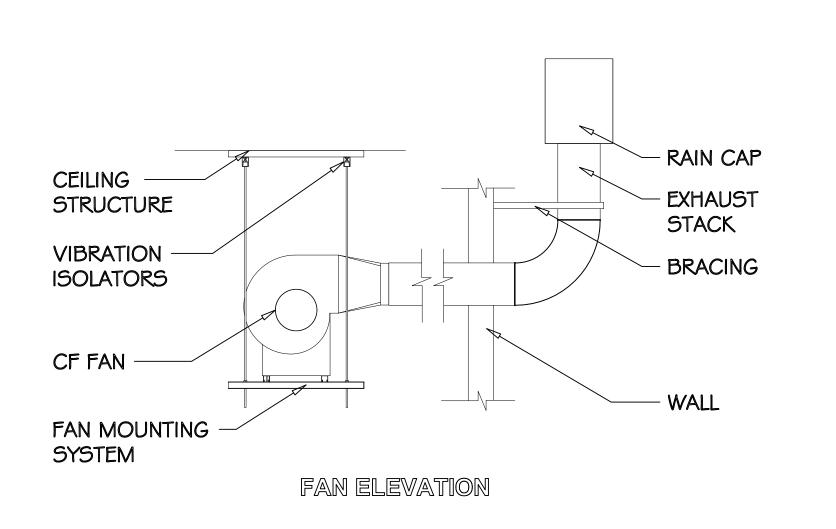
GENERAL CONSTRUCTION NOTES:

- 1. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY DRAWINGS ARE DIAGRAMMATIC AND DESIGN CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES IN ACCORDANCE WITH 2017 ICC (IBC, IMC).
- 3. ALL NEW MATERIAL METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED.
- 4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT N STRICT ACCORDANCE WITH MANUFACTURES' RECOMMENDATIONS.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EXHAUST FANS, DUCTWORK, AND EXHAUST DROPS WITH EXISTING IN-PLACE CITY FIRE DEPARTMENTS EQUIPMENT, LIGHTING, AND ALL EXISTING CONDITIONS.
- 6. ALL EXHAUST DUCTWORK SHALL BE SPIRAL SEAM GALVANIZED STEEL FABRICATED AND INSTALLED IN ACCORDANCE WITH CHAPTER 6 OBBC MC AND SMACNA STANDARD MANUAL.
- 7. SHEETMETAL DUCT DIMENSIONS SHOWN ARE AIRWAY DIMENSIONS.
- 8. BALANCE EXHAUST SYSTEM AND EACH EXHAUST DROP MEET AIR QUANTITIES AS REQUIRED.
- 9. CONTRACTOR SHALL COORDINATE WITH CITY FIRE DEPARTMENT PRIOR TO ANY PENETRATION OR ROOF CUTTING.

| FAN SCHEDULE | - - - | | | | | | | | | |
|---------------|-------------|-------|------------------|-----|-----|---------------------------------|------------------|-------|---------|---------|
| FAN TYPE | | D# | AIRFLOW (CFM) | R | PM | STATIC PRESSURE (IN - WC) | VOLTS / PHASE | HP | BREAKER | WIRE |
| MAGNEGRIP | CF3 | 363-3 | 2100 | 34 | 450 | 6 SP | 3ph | 3 | 30 AMP | #10THHN |
| VEHICLE EXHA | UST S | YSTEN | A | | | | | | | |
| DESCRIPTION | N | P | ART# | QTY | | | REM | IARKS | | |
| CONTROL PAN | IEL | 500 | 0177-08 | 1 | | | | | | |
| RAIN CAP | | 500 | 0157-10 | 1 | | | | | | |
| SUCTION RAI | lL | SS | RM-361 | R | | | 1 HOSE D | ROP E | EACH | |
| TOTAL # OF HO | SE DR | ROPS: | | R | | CFM PER H | IOSE DROF |) . | 600 | O CFM |
| REMARKS: | | | | | | | | | | |

- REMARKS:

 A. ITEM HAS BEEN SPECIFIED FOR QUALITY AND PERFORMANCE ANY APPROVED SUBSTITUTION IS AT THE RISK OF THE OWNER.
- B. PROVIDE TRACK OR RAIL SYSTEM, TRANSITION ELBOW, HIGH TEMPERATURE HOSE, HOSE CLAMPS, NOZZLES, TAILPIPE CONNECTORS, FRESH AIR INTAKE, AND OTHER ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
- C. PROVIDE WIRELESS CONTROL PANEL ACTIVATION, PRESSURE SENSORS, WIRELESS TRANSMITTERS, AND ADDITIONAL COMPONENTS IF REQUIRED FOR AUTOMATIC FAN CONTROL.
- D. VEHICLE EXHAUST SYSTEM DESIGN AND DRAWING IS THE SOLE PROPERTY OF THE DESIGNERS, MAGNEGRIP.
- E. DETAILS MAY NOT REPRESENT THE SAME KIND OF VEHICLE IN PLAN VIEW.
- F. DETAILS ARE MEANT TO ILLUSTRATE "TYPICAL" ELEVATION VIEWS.



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PROJECT # 121564

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: Atlanta, Georgia 30326 : 404.522.8805 : 404.521.2118 (f)

:20112

SHEET TITLE :TAILPIPE EXHAUST :SYSTEM

SHEET NO.

SPECIFICATIONS CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION. THE WORK UNDER THIS SPECIFICATIONS AND DRAWINGS SHALL INCLUDE ALL LABOR. ALL INSTALLATION OF DEVICES AND CONNECTION OF CONDUCTORS SHALL BE PERFORMED BY LICENSED AND SKILLED ELECTRICIAN OR JOURNEYMAN. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. IF ANY PORTION OF THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER. THE WORK INCLUDES, BUT NOT LIMITED TO: THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM. ROUGH-IN AND FINAL CONNECTIONS TO ALL DEVICES REQUIRING ELECTRICAL POWER. INCLUDING OWNER PROVIDED EQUIPMENT. LIGHTING CONTROL LIGHTING FIXTURES EACH CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE REGULATORY AUTHORITIES. ALL FEES RELATED TO OBTAINING PERMITS AND INSPECTION SHALL BE PAID FOR BY EACH CONTRACTOR IN HIS TRADE. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL ELECTRICAL CODE 2020, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY STANDARDS. ANY DIFFERENCES IN ABOVE MENTIONED REQUIREMENTS, THE MOST STERN SHALL OVERRULE ALL OTHERS. IN ADDITION TO ABOVE MENTIONED CODES AND SPECIFICATIONS, THE FOLLOWING INDUSTRY STANDARDS SHALL BE COMPLIED IF THEY ARE MORE STRINGENT. IEEE IECC 2015 ASHRAE 90.1 NFPA NEMA THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES. CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS BUILDING AND IN COOPERATION WITH THE OTHER SUBCONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FOR ANY CHANGES TO THE SPECIFICATIONS OR CONTRACT DOCUMENTS. ANY EXCEPTIONS, INCONSISTENCIES AND CONFLICTS IN CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS BY OTHER TRADE SHALL BE BROUGHT TO ATTENTION TO THE OWNER PRIOR TO BID. THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIEL CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY PRIOR TO ANY FABRICATION OR INSTALLATION. ELECTRICAL DEVICES ARE INDICATED ON DRAWINGS AT APPROXIMATE LOCATIONS. THE OWNER RESERVE THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS WITHOUT ADDITIONAL COSTS. CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS. PRODUCTS AND WORK MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST UNDERWRITER'S LABORATORIES' SEAL OF APPROVAL. TO INCLUDE THE PUBLISHED MANUFACTURER'S DESCRIPTION AND SPECIFICATION. OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES. COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE

CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE BUT ARE NOT SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT CONTRACTOR SHALL COORDINATE AND VERIFY THE WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADE PRIOR TO ANY FABRICATIONS OR INSTALLATION. IF THE LAYOUT THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITER'S REQUIREMENTS AND BEAR THE LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT. ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER FROM THE STRUCTURAL CEILING. COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES. CONDUITS AND RACEWAYS: MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD. OUTDOORS EXPOSED: RIGID STEEL. OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL. OUTDOORS UNDERGROUND: TYPE EPC-40-PVC OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC. BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS. INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT. INDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT. INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT. INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT. INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS. INDOORS DAMP OR WET LOCATIONS: IMC. INDOORS LOW-VOLTAGE CABLES: EMT. CONDUCTORS: COPPER CONDUCTORS #10 AND SMALLER: LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA. METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330. COPPER CONDUCTORS #8 OR LARGER: LABELED PER UL 83, TYPE THHN/THWN, STRANDED COPPER, 600VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:

CONTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF

COPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR

EQUIVALENT AMPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.

PIRELLIE SOUTHWIRE

AETNA REPUBLIC

ENCORE WIRE KERITE

SPECIFICATIONS MOLDED CASE CIRCUIT BREAKER: INCLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURER'S STANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF STANDARD PRODUCTS. APPROVED MANUFACTURERS: GENERAL ELECTRIC CUTLER HAMMER SQUARE D SIEMENS THERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK CONTACTS: TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE. MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A SINGLE TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE. TRIP RATINGS SHALL BE MOLDED ON THE HANDLE OR FACE OF BREAKER. BREAKER TERMINALS SHALL BE RATED TO ACCOMMODATE A MINIMUM OF 75 DEGREE C. CONDUCTORS. BREAKER SHALL BE RATED FOR MOUNTING AND OPERATION IN ANY POSITION; SHALL ACCOMMODATE AND MATCH THE TYPE OF TERMINATIONS REQUIRED. SINGLE POLE BREAKERS RATED 15 AND 20 AMPERES SHALL BE UL LABELED AS "SWITCHING" BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE. MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP. LIGHTING FIXTURE SCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET WITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP DATA. REFER TO THE "LIGHTING FIXTURE SCHEDULE" \IN THE DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS AND MANUFACTURER TYPES. PROVIDE LAMPS FOR EACH FIXTURE OF QUANTITY, TYPE AND COLOR AS LISTED IN LIGHTING FIXTURE SCHEDULE. GE, SYLVANIA OR PHILIPS ARE ACCEPTABLE. EACH LIGHTING FIXTURE SHALL BE UL LABELED FOR PROPER OPERATION IN THE TYPE OF CEILING CONSTRUCTION AND FOR THE MOUNTING ARRANGEMENT ON/IN WHICH IT IS FIELD VERIFY ACTUAL CEILING SLOPE FOR FIXTURES INSTALLED IN SAME AND ACTUAL FIELD DIMENSIONS AND ANGLES OF CONSTRUCTION FOR ANY FIXTURE CONFORMING THE SHAPE AND LENGTH OF SAME, FOR COORDINATION OF FIXTURE CONSTRUCTION. INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND COMPLETE WITH PHYSICAL AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INCLUDING BREAKER/FUSE OVERLAY

APPROVED MANUFACTURERS:

GENERAL ELECTRIC

CUTLER HAMMER

SQUARE D

SIEMENS

LIGHTING CONTRO

TIME SWITCHES:

OF A PROGRAM

TIME CLOCK.

POWER PACK

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250.

AUTHORITIES HAVING JURISDICTION.

COPPER WIRE OR CABLE INSULATED FOR GOOV UNLESS REQUIRED BY APPLICABLE CODE OR

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.

ELECTRICAL GENERAL NOTES THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2020. ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK. FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE). REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS. REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS. COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL. ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES. REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION. WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT. REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS. WHICH REQUIRE ELECTRICAL SERVICE. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS. WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED. ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED. ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS. COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER \$ CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION. DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY. MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M. P. FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT. GENERAL DIAGRAMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT. FIXTURES AND LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND PBI, NFPA #70-384 AND 70-373. DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS. REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES. ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION. RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR PROVIDE TYPED CIRCUIT DIRECTORY WITH FACH CIRCUIT SERVING DEVICES AND AREA IT'S SERVING CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART. TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL PROVIDE SURGE PROTECTION FOR ELECTRICAL AND TELEPHONE SERVICES. PROVIDE TVSS FOR FIRE ALARM CONTROL PANEL. SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 9 17. 20-A BALLAST LOAD, 120/240VAC. FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV. 15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHDULE THAT NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS. NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST. FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS. INDOOR OCCUPANCY SENSORS: REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES. WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE EACH PENETRATION OF A FIRE RESISTANT RATED ASSYMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES. BEEN TESTED ACCORDING TO ASTME 814 OR E199. SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK UL773A. SENSOR IS POWERED FROM POWER PACK. ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART. POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC. LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX); DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT. ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND APPROACH OR 46 INCHES FOR A SIDE APPROACH. ULTRASONIC DETECTION METHOD. REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

THE AREA.

RATED WALL.

PLENUM.

FROM PUBLIC VIEW.

PERPENDICULAR TO EXTERIOR WALLS.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH

ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300. 19(A).

MOUNTING SYMBOLS DESCRIPTION DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R 18" AFF DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R COUNTER TOP QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 8" AFF 5-20R QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R COUNTER TOP DUPLEX RECEPTACLE, I 20V, 20A, NEMA 5-20R FLOOR DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R IN CEILING SPECIAL RECEPTACLE, CONFIGURATION AND 18" AFF ELECTRICAL CHARACTERISTIC AS NOTED ON DWG JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE 18" AFF PER NEC. JUNCTION BOX FLUSH IN CEILING WITH COVER. IN CEILING SIZE PER NEC JUNCTION BOX FLUSH IN FINSHED FLOOR WITH COVER. SIZE PER NEC. FLOOR 42" AFF SWITCH SWITCH - 3 WAY 42" AFF **3** / \$₃ SWITCH - WALL MTD, INTEGRAL OCCUPANCY 42" AFF SENSOR SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT 42" AFF **⊅** / \$_D SWITCH - WALL MTD, DIMMING 42" AFF SWITCH - CEILING MOUNTED OCCUPANCY SENSOR IN CEILING TV OUTLET 18" AFF 18" AFF TELEPHONE OUTLET ELEPHONE OUTLET. SUBSCRIPT: F - FIREMAN'S PHONE. H - HOUSE PHONE. P - PAY PHONE COUNTER TOP TELEPHONE / DATA COMBINATION OUTLET 18" AFF TELEPHONE / DATA COMBINATION OUTLET FLOOR TELEPHONE / DATA COMBINATION OUTLET COUNTER TOP DATA OUTLET 18" AFF DATA OUTLET COUNTER TOP DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE FUSED DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE ON WALL EQUIPMENT AS NOTED ON DRAWING. ON WALL MOTOR HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (I) NEUTRAL , (3) HOT III \$ (I) GROUND • SMOKE DETECTOR. CEILING / WALL MOUNTED \oplus / \oplus -HEAT DETECTOR. CEILING/WALL MOUNTED FIRE ALARM NOTIFICATION DEVICE. AUDIO AND 80" AFF FIRE ALARM NOTIFICATION DEVICE. AUDIO. 80" AFF FIRE ALARM NOTIFICATION DEVICE. VISUAL. 80" AFF ∇ FIRE ALARM INITIATION DEVICE PULL STATION

LEGEND

| | FIRE ALARM INITIATION DEVI | FIRE ALARM INITIATION DEVICE. PULL STATION. 42" AFF | | | | | | | | |
|------------|--------------------------------------|---|---------------------------------------|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| ABBREV | TATIONS | | | | | | | | | |
| AC | 6" ABOVE COUNTER SPACE OR 42" AFF | IG | ISOLATED GROUND | | | | | | | |
| AF | AMP FUSE | ISC | SHORT CIRCUIT CURRENT | | | | | | | |
| AFF | ABOVE FINISHED FLOOR | LTG | LIGHTING | | | | | | | |
| AL | ALUMINUM | MTD | MOUNTED | | | | | | | |
| BFC | BELOW FINISHED CEILING | N | NEUTRAL | | | | | | | |
| BKR | BREAKER | NL | NIGHT LIGHT | | | | | | | |
| CND | CONDUIT | NEC | NATIONAL ELECTRICAL CODI | | | | | | | |
| CONN | CONNECTED OR CONNECTION | PNL | PANEL | | | | | | | |
| СТВ | CABLE TV TERMINAL BACKBOARD | RECPT | RECEPTACLE | | | | | | | |
| CU | COPPER | TEL | TELEPHONE | | | | | | | |
| DN | DOWN | TTB | TELEPHONE TERMINAL BOAR | | | | | | | |
| EC | EMPTY CONDUIT | TV | TELEVISION | | | | | | | |
| ELEC | ELECTRICAL | TVSS | TRANSIENT VOLTAGE SURGI SUPPRESSOR | | | | | | | |
| FACP | FIRE ALARM CONTROL PANEL | TYP | TYPICAL | | | | | | | |
| FAA | FIRE ALARM ANNUNCIATOR PANEL | XFMR TRANSFORMER | | | | | | | | |
| G OR GRND | GROUND | UG | UNDERGROUND | | | | | | | |
| GFCI OR GF | GROUND FAULT CIRCUIT INTERRUPTER | WP | WEATHERPROOF | | | | | | | |
| | • | | | | | | | | | |

42" AFF OR 6" ABOVE 42" AFF OR 6" ABOVE LUSH WITH FINISHED FLUSH WITH FINISHED 42" AFF OR 6" ABOV FLUSH WITH FINISHED 42" AFF OR 6" ABOVE 42" AFF OR 6" ABOVE AS INDICATED ON AS INDICATED ON SURFACE MOUNTED SURFACE MOUNTED



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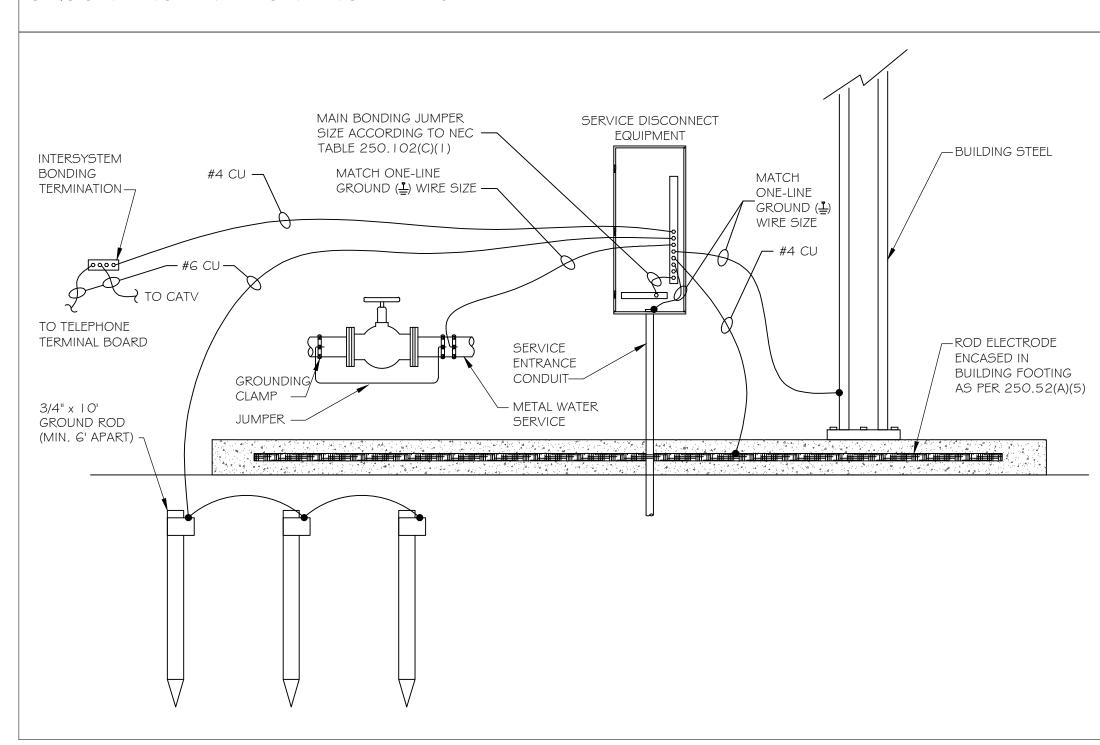
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SHEET TITLE

GENERAL

SHEET NO.

GROUNDING AND BONDING DETAIL



| | FAULT CURRENT SCHEDULE | | | | | | | | | | | | |
|--|--|-----------------|--------|------|--|--|--|--|--|--|--|--|--|
| | DEVICE FAULT AIC RATING L-N VOL | | | | | | | | | | | | |
| | DSC-M | 20,939 | 65,000 | 120V | | | | | | | | | |
| | ATS | 5 37,567 65,000 | | | | | | | | | | | |
| | MDP 32,091 42,000 120V A 23,936 42,000 120V B 17,842 42,000 120V | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| VOLTA | VOLTAGE DROP SCHEDULE | | | | | | | | | | | | |
|---------|------------------------------|-----------------------------------|-------------------|-----------|-------|--|--|--|--|--|--|--|--|
| DEVICE | DEVICE FEEDER BRANCH CIRCUIT | | | | | | | | | | | | |
| | VOLTAGE DROP | WIRE SIZE | MAX VOLTAGE DROP | WIRE SIZE | DROP | | | | | | | | |
| GEN MDP | - | - | - | - | 0% | | | | | | | | |
| DSC-M | 0.86% | (2)#350kcmil | - | - | 0.86% | | | | | | | | |
| ATS | 1.21% / 1.17% | (2)#350kcmıl / (2)#350kcmıl | | - | 1.21% | | | | | | | | |
| MDP | 1.42% | (2)#350kcmil | 1.42% (CKT 35,37) | #10 | 2.84% | | | | | | | | |
| А | 1.54% | #3/0 | 2.81% (CKT 31) | #12 | 4.35% | | | | | | | | |
| В | 1.47% | #2 | 2.36% (CKT 2) | #12 | 3.83% | | | | | | | | |

| GENER | | | | | | | |
|---------|------------|----------------|-------|---------|--------------|--------------------------------|---------------------------|
| OLIVLI | | TEDULE | | | | | |
| CALLOUT | SYMBOL | VOLTS | KVA | BREAKER | CIRCUIT | WIRE CALLOUT | DISCONNECT DESCRIPTION |
| AC-I | | 208V 3P 4W | 11.64 | 50/3 | MDP-32,34,36 | "C,3#6,#6N,# OG | GOA/3P/NEMA I |
| CF363-3 | ₩ | 208V 3P 4W | 3.99 | 30/3 | MDP-14,16,18 | 1/2"C,3#10,#10N,#10G | 30A/3P/NEMA 3R |
| EF-A | 0 | 120V IP 2W | 0.1 | 20/1 | B-2 | 1/2"C, # 2, # 2N, # 2G | SWITCHED WITH LIGHTS |
| EF-A | 0 | 120V IP 2W | 0.1 | 20/1 | B-2 | 1/2"C, # 2, # 2N, # 2G | SWITCHED WITH LIGHTS |
| EF-A | 9 | 120V IP 2W | 0.1 | 20/1 | B-2 | 1/2"C, # 2, # 2N, # 2G | SWITCHED WITH LIGHTS |
| EF-A | 9 | 120V IP 2W | 0.1 | 20/1 | B-2 | 1/2"C, # 2, # 2N, # 2G | SWITCHED WITH LIGHTS |
| EF-A | 9 | 120V IP 2W | 0.1 | 20/1 | B-4 | 1/2"C, # 2, # 2N, # 2G | SWITCHED WITH LIGHTS |
| EF-A | 9 | 120V IP 2W | 0.1 | 20/1 | B-8 | 1/2"C, # 2, # 2N, # 2G | SWITCHED WITH LIGHTS |
| FAS | 800 | 208V 3P 4W | 11.64 | 50/3 | MDP-26,28,30 | I"C,3#6,#6N,#IOG | GOA/3P/NEMA I |
| FCU-I | ♥ □ | 208/120V 2P 3W | 10.15 | 50/2 | MDP-15,17 | 3/4"C,2#6,#6N,#10G | GOA/2P/NEMA I |
| FCU-2 | 800 | 208/120V 2P 3W | 10.15 | 50/2 | MDP-19,21 | 3/4"C,2#6,#6N,#10G | GOA/2P/NEMA I |
| FCU-3 | 800 | 208/120V 2P 3W | 10.48 | 60/2 | MDP-23,25 | 3/4"C,2#6,#6N,#10G | GOA/2P/NEMA I |
| HP-I | 800 | 208/120V 2P 3W | 3.52 | 30/2 | MDP-27,29 | 1/2"C,2#10,#10N,#10G | 30A/2P/NEMA 3R |
| HP-2 | 800 | 208/120V 2P 3W | 3.52 | 30/2 | MDP-31,33 | 1/2"C,2#10,#10N,#10G | 30A/2P/NEMA 3R |
| HP-3 | 800 | 208/120V 2P 3W | 4.06 | 30/2 | MDP-35,37 | 1/2"C,2#10,#10N,#10G | 30A/2P/NEMA 3R |
| RP-I | Ø-\$ | 120V IP 2W | 0.4 | 20/1 | MDP-13 | 1/2"C, # 2,# 2N,# 2G | SINGLE POLE SWITCH |
| UH-A | 800 | 208V 3P 4W | 8.65 | 30/3 | MDP-8,10,12 | 1/2"C,3#10,#10N,#10G | 30A/3P/NEMA I |
| UH-A | 800 | 208V 3P 4W | 8.65 | 30/3 | MDP-20,22,24 | 1/2"C,3#10,#10N,#10G | 30A/3P/NEMA I |
| WH-I | 800 | 208V 3P 4W | 18 | 70/3 | MDP-7,9,11 | I-I/4"C,3#4,#4N,#8G | 100A/3P/NEMA 1 |

| LUMIN | IAIRE SCHE | EDULE | | | |
|---------|------------|---------------|--|--|----------------------|
| CALLOUT | SYMBOL | LAMP | DESCRIPTION | MODEL | VOLTS |
| A | 0 | (1) 22.7W LED | 2X4 RECESSED ARCHITECTURAL TROFFER, 3000 LUMENS, 3000K, CURVED RIBBED ACRYLIC LENS | LITHONIA LIGHTING: 2BLT4 30L ADP GZ I O LP830 | 120V IP 2W |
| 42 | 0 | (1) 22.7W LED | 2X2 RECESSED ARCHITECTURAL TROFFER, 3000 LUMENS, 3000K, CURVED RIBBED ACRYLIC LENS | LITHONIA LIGHTING: 2BLT2 30L ADP GZ I O LP830 | 120V IP 2W |
| ВІ | | (1) 28.5W LED | 2X4 ADJUSTABLE LUMEN OUTPUT/ SWITCHABLE WHITE RECESSED ARCHITECTURAL TROFFER, LOW LUMEN SETTING, 3500K, CURVED RIBBED ACRYLIC LENS | LITHONIA LIGHTING: BLT 2X4 ALO I 2 SWW7 LOW LUMEN | 120V IP 2W |
| B2 | | (1) 37.2W LED | 2X4 ADJUSTABLE LUMEN OUTPUT/ SWITCHABLE WHITE RECESSED ARCHITECTURAL TROFFER, MEDIUM LUMEN SETTING, 3500K, CURVED RIBBED ACRYLIC LEN | LITHONIA LIGHTING: BLT 2X4 ALO I 2 SWW7 MEDIUM LUMEN | 120V IP 2W |
| С | 0 | (1) 16.1W LED | 3" LED DOWNLIGHT, **** LUMENS, 3000K, WHITE BEVEL TRIM, 0-10V DIMMING TO 1% | LITHONIA: INIT3D 5LM 30K 80CRI 50D EZ MVOLT/ NT3DBV BD WHSF | 120V IP 2W |
| D | 0 | (I) I6.IW LED | 3" LED DOWNLIGHT, **** LUMENS, 3000K, WHITE BEVEL TRIM, 0-10V DIMMING TO 1%, WITH RED DICHROIC LENS | LITHONIA INIT3D 15LM 30K 80CRI 50D EZ 1 MVOLT/ NT3DBV BD WHSF/ DGF 200 DRED | I2OV IP 2W |
| F | o | (I) I6.IW LED | 3" LED DOWNLIGHT, **** LUMENS, 3500K, WHITE BEVEL TRIM, 0-10V DIMMING TO 1%, WET LISTED | LITHONIA INIT3D 15LM 35K 80CRI 50D EZ I MVOLT/ NT3DBV BD WHSF WSOL | 120V IP 2W |
| G | 0 0 | (1) 37W LED | 4' SURFACE MOUNTED ARCHITECTURAL WRAP, 4000 LUMENS, 3500K, CURVED RIBBED ACRYLIC LENS | LITHONIA LIGHTING: BLWP4-40L ADP GZ I O LP835/ BLWPCGF3GF2 | 120V IP 2W |
| Н | | (1) 32.4W LED | 22" VANITY FIXTURE, 3000K | WAC LIGHTING: W5-26922-** | 120V IP 2W |
| J | | (1) 19.5W LED | FLUSH MOUNT CEILING FAN, 6 SPEED, DC MOTOR, BLUETOOTH CONTROL, LED LIGHT, 3000K | MODERN FORMS: FH-W 803-52L-*HOUSING FINISH*-*BLADE FINISH*- | 120V IP 2W |
| K | | (1) 204W LED | CYLINDRICAL LOW BAY, EXTRUDED ALUMINUM, POLYCARBONATE LENS, RIGHT, DOWN, \$ LEFT ILLUMINATED SIDES, TANDEM MOUNTING | LUX DYNAMICS: 360P-4-RDL-835-U10-HM-WP (2000 LMF) - TANDEM MOUNT 12' | 120V IP 2W **-CFO |
| М | 9 | (1) 37W LED | EXTERIOR SCONCE, 13" DIAMETER SHADE, OPAL GLASS, 3500K | INTRIGUE LIGHTING: CN-WA-**LED-35K-D-OL-UNV-* | 120V IP 2W INISH* |
| N | 9 | (I) LED | EXTERIOR SCONCE, 13" DIAMETER SHADE, OPAL GLASS, 3500K | INTRIGUE LIGHTING: CN-WA-**LED-35K-D-OL-UNV-E | 120V 1P 2W LK |
| P | | (I) IOW LED | EXTERIOR WALL PACK, 3500K, VISUAL COMFORT WIDE DISTRIBUTION | LITHONIA WDGE2 LED P I 35K 80CRI VW DBLXD | 120V IP 2W |
| Τ | | (2) 1.5W LED | EMERGENCY LIGHTING UNIT | LITHONIA ELM2L-LED | 120V IP 2W |
| X | ⊗ | (1) 5W LED | THERMOPLASTIC EXIT SIGN WITH BACKUP BATTERY | LITHONIA LQM-5-W-3-R- 20/277-EL-N | 120V IP 2W |
| XR | 4, | (I) INCLUDED | REMOTE LAMP HEAD | LITHONIA ELA-QWP-LO309-SD | 120V IP 2W |

ELA-QWP-L0309-SD

| ONE-LINE DIAGRAM | MDP | |
|--|--|--|
| UTILITY TRANSFORMER | ROOM VOLTS 208Y/120V 3P 4W AIC 42,000 MOUNTING SURFACE BUS AMPS 600 MAIN BKR ML FED FROM ATS NEUTRAL 100% LUGS STANDA NOTE NEMA I | |
| | CKT CKT LOAD KVA CKT CKT | LOAD KVA |
| | # BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION | A B C |
| METER & CT | 1 200/3 PANEL A 18.0 2 100/3 PANEL B 15.4 4 | 3.5 1.8 0. 2.9 |
| (2)3"C, 3#350kcmil, #350kcmil N, #2/0G | 9 | 1.3 |
| DSC-M 208Y/120V 3P 4W FRAME: 600 A FUSE: 600 A | 17 | 2.9 |
| ENCLOSURE: NEMA 3R DEMAND: I GO KVA AIC: G5,000 GEN MDP 208Y/ I 20V 3P 4W DEMAND: I GO KVA | 23 60/2 FCU-3 5.2 24 | 3.9 3.9 3.9 3. |
| SIZE: 250 KW NEMA 3R | 31 30/2 HP-2 1.8 32 50/3 AC-1 33 30/2 HP-3 1.8 2.0 36 1 | 3.9 3.9 3. |
| $\frac{\bot}{=}$ $\frac{\bot}{=}$ #2/0 CU (2)3"C, 3#350kcmil, #350kcmil N, #1G | 37 | 0.0 |
| (2)3"C, 3#350kcmil, #350kcmil N, #1G | TOTAL CONNECTED KVA | BY PHASE 56.9 51.8 51 |
| | TOTAL CONNECTED AMPS | BY PHASE 473.5 432.0 43 |
| ATS 208Y/120V 3P 4W DEMAND: 160 KVA SIZE: 600 A AIC: 65,000 | LARGEST MOTOR 11.6 2.9 (25%) KITCHEN EQUIPMENT 13.6 MOTORS 87.4 87.4 (100%) CONTINUOUS 18.0 | CALC KVA 15.6 (50%>10) 10.2 (LARGEST 2) 22.5 (125%) 15.0 (100%) |
| (2)3"C, 3#350kcmil, #350kcmil N, #1G | | 159.9 444.0 A |
| PANEL MDP 208Y/I 20V 3P 4W BUS: 600 A MAIN: MLO | A | |
| DEMAND: 160 KVA AIC: 42,000 | ROOM VOLTS 208Y/120V 3P 4W AIC 42,000 MOUNTING SURFACE BUS AMPS 200 MAIN BKR ML FED FROM MDP NEUTRAL 100% LUGS STANDA NOTE NEMA I | |
| 2"C, 3#3/O, #3/ON, #6G I-1/4"C, 3#2, #2N, #8G | CKT CKT BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION | LOAD KVA A B |
| PANEL A 208Y/120V 3P 4W BUS: 200 A MAIN: MLO DEMAND: 40.6 KVA PANEL B 208Y/120V 3P 4W BUS: 100 A MAIN: MLO DEMAND: 7.32 KVA | 1 20/1 GARAGE DOOR 0.5 2 20/1 RECEPTACLE 3 20/1 GARAGE DOOR 0.5 4 20/1 RECEPTACLE 5 20/1 RECEPTACLE 0.5 6 20/1 RECEPTACLE 7 20/1 RECEPTACLE 0.5 6 20/1 RECEPTACLE 9 20/1 RECEPTACLE 0.5 10 20/1 RECEPTACLE | 0.5 1.1 0.7 0.7 |
| AIC: 42,000 | 1 | 1.2 |

| 17 207 WASHEN | 7 | 13 | 25/2 | DRYER | 2.6 | ! | | 14 | 20/1 | REFRIGERATOR | 1.2 | 1 | I |
|--|--|---|--|--|--|-------------------------------------|--------------------------|--|--|---|-------------------------------|---------------------------|--------------------------|
| 19 | 2 2 2 2 2 2 2 2 2 2 | 15 | | | | 2.6 | | 16 | 20/1 | UC ICEMAKER | | 1.2 | |
| 2 | 1 | 17 | 20/1 | WASHER | | | 1.0 | 18 | 20/1 | RECEPTACLE | | | 0.7 |
| 13 201 WASTER | 2 | 19 | 25/2 | DRYER | 2.6 | | | 20 | 20/1 | RECEPTACLE | 0.5 | | |
| 15 | S 201 RECEPTACLE | 21 | | | | 2.6 | | 22 | 20/1 | HOOD | | 1.0 | |
| 1.5 | 7 | 23 | 20/1 | WASHER | | | 1.0 | 24 | 50/2 | RANGE | | İ | 4.5 |
| 129 201 | 3 201 RECEPTACLE | 25 | 20/1 | RECEPTACLE | 0.7 | | | 26 | | | 4.5 | | 1 |
| 1 | 1 201 NCCHINGE 14 14 32 201 DESCRIPTION 1 0 0 0 0 0 0 0 0 0 | 27 | 20/1 | RECEPTACLE | | 1.4 | | 28 | 20/1 | MICROWAVE | | 1.5 | |
| 1 | 1 201 NCCHINGE 14 14 32 201 DESCRIPTION 1 0 0 0 0 0 0 0 0 0 | 29 | | | | | 1.4 | 30 | · · | | | | 1.2 |
| 14 | 3 SQU RECEPTACLE | 31 | | | 1 1 4 | | | 1 1 | | | 14 | | |
| 15 201 SECEPTACLE 0.4 0.9 36 201 SECEPTACLE 0.4 0.9 36 201 SECEPTACLE 0.4 0.9 36 201 SECEPTACLE 0.4 0.5 37 201 SECEPTACLE 0.4 0.5 0.5 201 SECEPTACLE 0.4 0.5 0.5 201 SECEPTACLE 0.5 | S | 33 | | | ''' | 1 4 | | 1 1 | | | '.' | 02 | |
| 20 20 RECEPTACE 20 RE | 2 2 2 2 2 2 2 2 2 2 | - 1 | | | | 11 | <u>0 a</u> | 1 1 | • | | | 0.2 | |
| 201 FACP 1.0 201 ECCHTACE 0.5 0.5 0.5 0.5 | 3 20/1 FACE | | | | | | 0.5 | 1 1 | | | | | 1.2 |
| 1 | 1 20/1 TEL BACKBOARD | | | | 0.4 | | | 1 1 | · · | | 0.4 | 0.5 | |
| TOTAL CONNECTED KVA BY PHASE 18.0 15.4 15 15 15 15 15 15 15 1 | CONNICAL DEFINIS CONNICAL DEFINIS 1.0.0 15.4 15. | 1 | | | - | 0.1 | | 1 1 | | | | 0.5 | |
| CONN KVA | CONN KVA | 41 | 20/1 | TEL BACKBOARD | | | 1.0 | 42 | 20/1 | SPACE | | | 0.0 |
| CONN KVA | CONNIKVA CALC KVA | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 18.0 | 15.4 | 15. |
| Company Comp | CONN FACE CONN | | | | | | | | | TOTAL CONNECTED AMPS BY PHASE | 150.1 | 131.0 | 134 |
| NONCONTINUOUS 15.0 15.0 40.6 40.6 40.6 412.7 A 40.6 A | NONCONTINUOUS 15.0 15.0 15.0 16.0 10.0 112.7 A 10.0 | | | CONN KVA CAL | LC KVA | | | | | CONN KVA CALC KV | ′A | • | |
| TOTAL LOAD A0.6 FI12.7 A | TOTAL LOAD | RECE | PTACLES | 20.8 I5.4 | (5(| D%>10) | | KITCH | IEN EQUIF | PMENT 13.6 10.2 | —— (LAR | GEST 2) | |
| SALANCED 3-PHASE LOAD | DOM | | | | | | | NONC | CONTINUC | DUS 15.0 15.0 | (100 | 0%) | |
| SALANCED 3-PHASE LOAD | DOM | | | | | | | TOTA | L LOAD | 40.6 | | | |
| COOM | DOM | | | | | | | BALAI | NCED 3-F | PHASE LOAD 112.7 A | | | |
| NODM NOTE 208Y 20V 3 P 4W | VOLTS 208Y 20V SP 4W | | | | | | | | | | | | |
| LOAD KVA CKT KT BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C A B C A B C A B C A B C CIRCUIT DESCRIPTION A B CIRCUIT DESCRIPTION A CIRCUIT DESCRI | CKT CKT BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C A B C BKR CIRCUIT DESCRIPTION A B C CIRCUIT DESCRIPTION A B CIRCUIT DESCRIPTION A B CIRCUIT DESCRIPTION A B C CIRCUIT DESCRIPTION A B CIRCUIT DESCRIPTION A | ROOM | | URFACE | | | | łW | | MAIN BKR MLO | | | |
| BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C TOTAL CONNECTED AMPS BY PHASE 29.0 15.2 6. | BKR CIRCUIT DESCRIPTION A B C # BKR CIRCUIT DESCRIPTION A B C TOTAL CONNECTED KVA BY PHASE 29,0 15.2 C C C C C C C C C | ROOM MOUNT FED FR | TING S | /IDP | BUS AMF | PS 100 |) | łW | | MAIN BKR MLO | | | |
| 1.2 | 1.2 | ROOM MOUNT FED FR NOTE | TING S ROM N NEMA | /IDP | BUS AMF NEUTRAL | PS 100% | | 1 | CKT | MAIN BKR MLO | | OAD KV/ | Δ |
| 1.2 | 1.2 | ROOM MOUNT FED FR | TING S ROM N NEMA CKT | MDP I | BUS AMF NEUTRAL | 100% 100% LOAD KV |) 5 | CKT | | MAIN BKR MLO LUGS STANDARD | | 1 | 1 |
| 5 20/1 RECEPTACLE 0.4 6 20/1 LIGHTING 0.7 7 20/1 SPACE 0.0 0.0 0.0 20/1 EF-A, LIGHTING 0.7 9 20/1 SPACE 0.0 10 20/1 SPACE 0.0 11 20/1 SPACE 0.0 12 20/1 SPACE 0.0 15 20/1 SPACE 0.0 16 20/1 SPACE 0.0 15 20/1 SPACE 0.0 18 20/1 SPACE 0.0 19 20/1 SPACE 0.0 18 20/1 SPACE 0.0 20 20/1 SPACE 0.0 22 20/1 SPACE 0.0 21 20/1 SPACE 0.0 22 20/1 SPACE 0.0 21 20/1 SPACE 0.0 24 20/1 SPACE 0.0 21 20/1 SPACE 0.0 | SACE 20/1 SPACE 0.0 0.4 6 20/1 LIGHTING 0.7 0.0 0. | ROOM MOUNT FED FR NOTE | TING S ROM N NEMA CKT BKR | I CIRCUIT DESCRIPTION | BUS AMF NEUTRAL | 100% 100% LOAD KV |) 5 | CKT # | BKR | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION | А | 1 | 1 |
| 7 | 20/1 SPACE 0.0 0 | ROOM MOUNT FED FR NOTE CKT # | TING S ROM N NEMA CKT BKR | CIRCUIT DESCRIPTION LIGHTING | BUS AMF NEUTRAL | PS 100 100% LOAD KVA |) 5 | CKT # | BKR 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING | А | В | |
| 9 20/1 SPACE 0.0 10 20/1 SPACE 0.0 0.0 12 20/1 SPACE 0.0 0 | 20/1 SPACE 0.0 10 20/1 SPACE 0.0 | ROOM MOUNT FED FR NOTE CKT # | TING S ROM N NEMA CKT BKR 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING | BUS AMF NEUTRAL | PS 100 100% LOAD KVA | A C | CKT # 2 4 | 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING | А | В | С |
| 1 | 1 20/1 SPACE | ROOM MOUNT FED FR NOTE CKT # 1 3 5 | TING S ROM N NEMA CKT BKR 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE | BUS AMF NEUTRAL L A | PS 100 100% LOAD KVA | A C | CKT # 2 4 6 | 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING | A 1.3 | В | С |
| 3 20/1 LIGHTING 0.5 0.0 14 20/1 SPACE 0.0 | 3 20/1 LIGHTING SPACE O.0 ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE | BUS AMF NEUTRAL L A | 100% 100% LOAD KVA B | A C | CKT # 2 4 6 8 | 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING | A 1.3 | 0.6 | С |
| 15 20/1 SPACE 0.0 16 20/1 SPACE 0.0 0.0 18 20/1 SPACE 0.0 | SPACE O.O O. | ROOM MOUNT FED FR NOTE CKT # 1 3 5 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE | BUS AMF NEUTRAL L A | 100% 100% LOAD KVA B | A C 0.4 | CKT # 2 4 6 8 | 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 | 0.6 | O.4 |
| 17 20/1 SPACE | 7 20/1 SPACE | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 | CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE | BUS AMF NEUTRAL | 100% 100% LOAD KVA B | A C 0.4 | CKT # 2 4 6 8 10 | 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE SPACE | A 1.3 0.7 | 0.6 | O.4 |
| 19 20/1 SPACE 0.0 0.0 20 20/1 SPACE 0.0 0.0 22 20/1 SPACE 0.0 0.0 23 20/1 SPACE 0.0 0.0 24 20/1 SPACE 0.0 0.0 25 20/1 SPACE 0.0 0.0 26 20/1 SPACE 0.0 0.0 28 20/1 SPACE 0.0 0.0 28 20/1 SPACE 0.0 0.0 28 20/1 SPACE 0.0 0.0 30 20/1 SPACE 0.0 0.0 32 20/1 SPACE 0.0 0.0 33 20/1 SPACE 0.0 0.0 34 20/1 SPACE 0.0 0.0 35 20/1 SPACE 0.0 0.0 36 20/1 SPACE 0.0 0.0 38 20/1 SPACE 0.0 | 9 20/1 SPACE | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING | BUS AMF NEUTRAL | DOD 100% | A C 0.4 | CKT # 2 4 6 8 10 12 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE SPACE SPACE | A 1.3 0.7 | O.6 | O.4 |
| 20 20 5PACE 0.0 22 20 5PACE 0.0 0.0 22 20 20 20 20 | | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING | BUS AMF NEUTRAL | DOD 100% | A C 0.4 | CKT # 2 4 6 8 10 12 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE SPACE SPACE SPACE | A 1.3 0.7 | O.6 | O.4 |
| 23 20/1 SPACE 0.0 24 20/1 SPACE 0.0 0.0 24 20/1 SPACE 0.0 0.0 25 20/1 SPACE 0.0 0.0 26 20/1 SPACE 0.0 0.0 27 20/1 SPACE 0.0 0.0 28 20/1 SPACE 0.0 0.0 28 20/1 SPACE 0.0 0.0 30 20/1 SPACE 0.0 0.0 32 20/1 SPACE 0.0 0.0 33 20/1 SPACE 0.0 0.0 34 20/1 SPACE 0.0 0.0 36 20/1 SPACE 0.0 0.0 38 20/1 SPACE 0.0 | 3 20/1 SPACE S | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 | CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL | DOD KVA B 1.2 0.0 | O.4 | CKT # 2 4 6 8 10 12 14 16 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE SPACE SPACE SPACE | A 1.3 0.7 | O.6 | O.4 |
| 25 20/1 SPACE O.0 O. | SPACE O.O O. | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 13 15 | CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE SPACE SPACE | BUS AMF NEUTRAL I A I.O O.O O.5 | DOD KVA B 1.2 0.0 | O.4 | CKT # 2 4 6 8 10 12 14 16 18 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE SPACE SPACE SPACE SPACE SPACE | A 1.3 0.7 0.0 | O.6 | O.4 |
| 25 20/1 SPACE O.0 O. | SPACE O.O O. | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 13 15 17 | CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE SPACE LIGHTING SPACE SPACE SPACE SPACE | BUS AMF NEUTRAL I A I.O O.O O.5 | DO 100% | O.4 | CKT # 2 4 6 8 10 12 14 16 18 20 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE | A 1.3 0.7 0.0 | O.6 O.0 | O.4 |
| 20/1 SPACE 0.0 28 20/1 SPACE 0.0 0.0 28 20/1 SPACE 0.0 | 7 20/1 SPACE | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 13 15 17 19 | CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL I A I.O O.O O.5 | DO 100% | O.4 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 | O.6 O.0 | O.4 |
| 29 20/1 SPACE 0.0 30 20/1 SPACE 0.0 32 20/1 SPACE 0.0 32 20/1 SPACE 0.0 33 20/1 SPACE 0.0 34 20/1 SPACE 0.0 0.0 36 20/1 SPACE 0.0 0.0 36 20/1 SPACE 0.0 0.0 38 20/1 SPACE 0.0 0.0 38 20/1 SPACE 0.0 0.0 0.0 42 20/1 SPACE 0.0 | 9 20/1 SPACE 0.0 30 20/1 SPACE 0.0 32 20/1 SPACE 0.0 0.0 33 20/1 SPACE 0.0 0.0 34 20/1 SPACE 0.0 0.0 35 20/1 SPACE 0.0 0.0 36 20/1 SPACE 0.0 | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 13 15 17 19 21 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL L A I.O O.O O.5 | DO 100% | O.4 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 0.0 | O.6 O.0 | O.4 |
| 31 20/1 SPACE | 20/1 SPACE O.O O | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 13 15 17 19 21 23 25 | CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL L A I.O O.O O.5 | DAD KVA B 1.2 0.0 0.0 | O.4 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 0.0 | O.6 O.0 O.0 | O.4 |
| 33 20/1 SPACE | 3 20/1 SPACE S | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 11 13 15 17 19 21 23 25 27 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL L A I.O O.O O.5 | DAD KVA B 1.2 0.0 0.0 | O.4 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 0.0 | O.6 O.0 O.0 | O.C |
| SPACE SPAC | SPACE SPAC | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 1 1 3 1 5 1 7 1 9 2 1 2 3 2 5 2 7 2 9 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL A I.O O.O O.5 O.O O.O | DAD KVA B 1.2 0.0 0.0 | O.4 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 | O.C |
| 37 20/1 SPACE O.0 O.0 O.0 O.0 O.0 SPACE O.0 | 7 20/1 SPACE 9 20/1 SPACE ROOM MOUNT FED FR NOTE CKT | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL A I.O O.O O.5 O.O O.O | DAD KVA B 1.2 0.0 0.0 0.0 | O.4 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 O.0 | O.C O.C O.C |
| 39 20/1 SPACE 0.0 40 20/1 SPACE 0.0 41 20/1 SPACE 0.0 0.0 42 20/1 SPACE 0.0 | 9 20/1 SPACE 0.0 0.0 40 20/1 SPACE 0.0 0.0 42 20/1 SPACE 0.0 0.0 0.0 42 20/1 SPACE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | ROOM MOUNT FED FR NOTE CKT # 1 3 5 7 9 1 1 3 1 5 1 7 1 9 2 1 2 3 2 5 2 7 2 9 3 1 3 3 3 3 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE | BUS AMF NEUTRAL A I.O O.O O.5 O.O O.O | DAD KVA B 1.2 0.0 0.0 0.0 | 0.4 0.0 0.0 0.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 O.0 | O.C O.C O.C |
| 20/1 SPACE 0.0 42 20/1 SPACE 0.0 | 20/1 SPACE | ROOM MOUNT FED FR NOTE CK# 3 5 7 9 1 3 15 17 19 2 3 2 2 2 2 3 3 3 3 3 3 5 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL A 1.0 0.0 0.5 0.0 0.0 | DAD KVA B 1.2 0.0 0.0 0.0 | 0.4 0.0 0.0 0.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 O.0 | O.C O.C O.C |
| TOTAL CONNECTED KVA BY PHASE 3.5 1.8 0. TOTAL CONNECTED AMPS BY PHASE 29.0 15.2 6. | TOTAL CONNECTED KVA BY PHASE 3.5 1.8 0 TOTAL CONNECTED AMPS BY PHASE 29.0 15.2 6 CONN KVA CALC KVA CONN KVA CALC KVA | ROOM MOUNT FED FR NOTE CKT | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE | BUS AMF NEUTRAL A 1.0 0.0 0.5 0.0 0.0 | DAD KVA B 1.2 0.0 0.0 0.0 0.0 | 0.4 0.0 0.0 0.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 O.0 O.0 | O.C O.C O.C |
| TOTAL CONNECTED AMPS BY PHASE 29.0 15.2 6. | TOTAL CONNECTED AMPS BY PHASE 29.0 15.2 6 CONN KVA CALC KVA CONN KVA CALC KVA | ROOM MOUNT FED FR NOTE CK# 3 5 7 9 1 3 15 17 19 2 3 2 2 2 2 3 3 3 3 3 3 5 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE | BUS AMF NEUTRAL A 1.0 0.0 0.5 0.0 0.0 | DAD KVA B 1.2 0.0 0.0 0.0 0.0 | 0.4 0.0 0.0 0.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING EF-A, LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 O.0 O.0 | O.C O.C O.C |
| | CONN KVA CALC KVA CONN KVA CALC KVA | POOM TENOTE 1 3 5 7 9 1 1 3 1 5 1 7 9 2 3 3 3 5 3 7 9 1 3 1 5 1 7 9 2 3 3 3 5 3 7 9 1 1 3 1 5 1 7 9 2 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 1 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL A 1.0 0.0 0.5 0.0 0.0 | DAD KVA B 1.2 0.0 0.0 0.0 0.0 | O.4 O.0 O.0 O.0 O.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 | O.6 O.0 O.0 O.0 O.0 | O.C O.C O.C |
| | CONN KVA CALC KVA CONN KVA CALC KVA | ROOM NOTE CKT | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL A 1.0 0.0 0.5 0.0 0.0 | DAD KVA B 1.2 0.0 0.0 0.0 0.0 | 0.4 0.0 0.0 0.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 0.0 | B 0.6 0.0 0.0 0.0 0.0 0.0 | O.C. O.C. O.C. O.C. O.C. |
| | | POOM TENOTE 1 3 5 7 9 1 1 3 1 5 1 7 9 2 3 3 3 5 3 7 9 1 3 1 5 1 7 9 2 3 3 3 5 3 7 9 1 1 3 1 5 1 7 9 2 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 1 1 3 1 5 1 7 9 2 1 3 1 3 1 5 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 3 1 1 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TING S ROM N NEMA CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | CIRCUIT DESCRIPTION LIGHTING LIGHTING RECEPTACLE SPACE SPACE SPACE LIGHTING SPACE | BUS AMF NEUTRAL A 1.0 0.0 0.5 0.0 0.0 | DAD KVA B 1.2 0.0 0.0 0.0 0.0 | 0.4 0.0 0.0 0.0 | CKT # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 | BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/ | MAIN BKR MLO LUGS STANDARD CIRCUIT DESCRIPTION EF-A, LIGHTING EF-A, LIGHTING LIGHTING SPACE | A 1.3 0.7 0.0 0.0 0.0 0.0 3.5 | B 0.6 0.0 0.0 0.0 0.0 1.8 | O.C O.C O.C O.C |

5.1 6.3 (125%)

(25%)

0.0

0.1

LARGEST MOTOR

Union County Fire Station

Harbor Boulevard Murphy Highway Blairsville, Georgia

0.4 (50%>10)

0.6

7.3

20.3 A

0.6

MOTORS

RECEPTACLES

TOTAL LOAD

BALANCED 3-PHASE LOAD



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REVISIONS No. · Date · Description **02.15.22** BID SET

> PROFICIENT ENGINEERING 6991 Peachtree Industrial Blvd Building 700
> Peachtree Corners, Georgia 30092
> 404.330.9798
> PROJECT # 121564

Gardner Spencer Smith Tench & Jarbeau

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. · :20112

SHEET TITLE SCHEDULES

Additional Efficiency Package(s)
High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A B C D

Area Category Floor Area Allowed Allowed (ft2) Watts / ft2 (B X

HIGHWAY

BLAIRSVILLE, GA 30512

 LED: B2: 2X4 ADJUSTABLE LUMEN OUTPUT/ SW: Other:
 1
 11
 37
 409

 LED: C: 3" LED DOWNLIGHT, **** LUMENS, : Other:
 1
 28
 16
 451

 LED: D: 3" LED DOWNLIGHT, **** LUMENS, : Other:
 1
 8
 16
 129

 LED: F: 3" LED DOWNLIGHT, **** LUMENS, : Other:
 1
 4
 16
 64

 LED: G: 4' SURFACE MOUNTED ARCHITECTURA: Other:
 1
 4
 37
 148

 LED: H: 22" VANITY FIXTURE, 3000K: Other:
 1
 6
 32
 194

 LED: J: FLUSH MOUNT CEILING FAN, 6 SPEE: Other: Electronic:
 1
 4
 20
 78

 LED: K: CYLINDRICAL LOW BAY, EXTRUDED A: Other:
 1
 1
 1
 2244

 Total Proposed Watts =
 4485

Interior Lighting PASSES: Design 8% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brian M. Armenta -PE

Signature

O1/05/2022

Project Title: UNION COUNTY FIRESTATION Report date: 01/05/22
Data filename: P:\Public\121\121564 Union County Fire Station Blairsville GA\121564 COMCHECK.cck Page 1 of 5

Final Inspection **Comments/Assumptions** Complies? & Req.ID C303.3, Furnished O&M instructions for \square Complies Requirement will be met. C408.2.5. systems and equipment to the □Does Not building owner or designated □Not Observable [FI17]³ representative. □Not Applicable [FI18]¹ lighting power is consistent with what \square Does Not is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed C408.2.5. Furnished as-built drawings for Complies Requirement will be met. electric power systems within 90 days Does Not [FI16]³ of system acceptance. □Not Observable □Not Applicable C408.3 Lighting systems have been tested to Complies Requirement will be met. [FI33]¹ ensure proper calibration, adjustment, \square Does Not programming, and operation. □Not Observable

□Not Applicable

Additional Comments/Assumptions:

Project Title: UNION COUNTY FIRESTATION 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Report date: 01/05/22

Data filename: P:\Public\121\121564 Union County Fire Station Blairsville GA\121564 COMCHECK.cck Page 4 of 5

COM*check* Software Version 4.1.5.1 Energy Code: 2015 IECC Requirements: 100.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided. **Plan Review** Complies? Comments/Assumptions & Req.ID C103.2 Plans, specifications, and/or ☐Complies Requirement will be met. $[PR4]^1$ calculations provide all information \square Does Not with which compliance can be ☐Not Observable determined for the interior lighting and electrical systems and equipment Not Applicable and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. C405.6 Group R-2 dwelling units have **Exception:** Requirement does not apply. [PR16]¹ separate electrical meters. \square Does Not □Not Observable □Not Applicable Requirement will be met. Plans, specifications, and/or calculations provide all information
Does Not with which compliance can be with which compliance can be determined for the additional energy efficiency package options. efficiency package options. Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Data filename: P:\Public\121\121564 Union County Fire Station Blairsville GA\121564 COMCHECK.cck Page 2 of 5

Data filename: P:\Public\121\121564 Union County Fire Station Blairsville GA\121564 COMCHECK.cck Page 5 of 5

Report date: 01/05/22

Report date: 01/05/22

Project Title: UNION COUNTY FIRESTATION

Project Title: UNION COUNTY FIRESTATION

| upancy sensors installed in uired spaces. | □Complies □Does Not □Not Observable □Not Applicable □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. Requirement will be met. |
|---|--|--|
| upancy sensors installed in uired spaces. | □Not Observable □Not Applicable □Complies □Does Not □Not Observable | Requirement will be met. |
| uired spaces. | □Does Not □Not Observable | Requirement will be met. |
| and a control of the particular for the control of | milot Applicable | |
| | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| ding lighting installed in all dings. | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| vidual controls that control the ts independent of general area ting. | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| nary sidelighted areas are ipped with required lighting trols. | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| cific uses installed per approved | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| <u>.</u> | □Complies □Does Not □Not Observable □Not Applicable | Requirement will be met. |
| odd II Vtsti nijti Ideeti acti iiwroalie. | ight zones provided with vidual controls that control the s independent of general area ing. ary sidelighted areas are pped with required lighting rols. osed spaces with daylight area er skylights and rooftop monitors equipped with required lighting rols. arate lighting control devices for iffic uses installed per approved ing plans. tional interior lighting power wed for special functions per the roved lighting plans and is matically controlled and urated from general lighting. signs do not exceed 5 watts per | matic controls to shut off all ding lighting installed in all dings. Complies Does Not Not Applicable Not Applicable Not Observable Not Applicable Not Applicable Not Observable Not Observable Not Observable Not Observable Not Applicable Not Observable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Observable Not Applicable Not Observable Not Observ |



Harbor Boulevard at Murphy Highway Blairsville, Georgia



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No. Date Description

02.15.22 BID SET

PROFICIENT
ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 121564

Gardner Spencer Smith Tench &

Jarbeau

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 : ENERGY : COMPLIANCE

REPORT

SHEET NO.

0.03

KEYNOTES

- (I) ROUTE (2) 2"C FROM TELEPHONE UTILITY DEMARCATION POINT WITH PULL STRING.
- PROVIDE POWER FOR GARAGE DOOR OPENER. COORDINATE CONTROLS AND POWER REQUIREMENTS WITH MANUFACTURER. COORDINATE CONTROLS LOCATION WITH OWNER/ARCHITECT.
- 3 COORDINATE KITCHEN EQUIPMENT CONNECTION REQUIREMENTS WITH MANUFACTURER.
- (4) DATA RACK BY OTHERS. PROVIDE A DEDICATED DUPLEX RECEPTACLE AS SHOWN. COORDINATE ADDITIONAL REQUIREMENTS WITH OTHERS.
- RETRACTING DUPLEX RECEPTACLE SUSPENDED FROM CEILING. FIELD COORDINATE EXACT LOCATION AND REQUIREMENT WITH OWNER.
- 6 FIELD COORDINATE EXACT LOCATION OF FLOOR BOXES WITH FURNITURE LOCATIONS BEFORE INSTALLATION.
- 7 POWER FOR FIELD AIR SYSTEM. FIELD COORDINATE EXACT REQUIREMENT WITH INSTALLER.
- 8 POWER FOR AIR COMPRESSOR. FIELD COORDINATE EXACT REQUIREMENT WITH INSTALLER.

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

TAMPER-RESISTANT UNLESS OTHERWISE ALLOWED BY ARTICLE 406.12.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146 AND SHALL BE

PER THE REQUIREMENT OF NEC ARTICLE 100 AND 210.12(A) ARC-FAULT PROTECTION IS REQUIRED IN ALL 120-VOLT, SINGLE PHASE 15- AND 20 AMPERE BRANCH CIRCUITS THAT SUPPLY OUTLETS IN DWELLING UNIT BEDROOMS, LIVING ROOMS, KITCHENS AND LAUNDRY AREAS. THIS INCLUDES RECEPTACLE OUTLETS, LIGHTING OUTLETS, CEILING FAN OUTLETS AND SMOKE DETECTORS.

ALL GUEST ROOM SMOKE DETECTORS SHALL BE LOW-VOLTAGE PHOTOELECTRIC WITH SOUNDER BASES MONITORED BY BUILDING FACP. DETECTORS SHALL BE EQUIPPED WITH SOUNDER BASES. PROGRAM AUDIBLE ALARM PER MARRIOTT STANDARDS AND REQUIREMENTS. UPON ACTIVATION, DETECTOR SHALL SEND SUPERVISORY SIGNAL TO

BUILDING FACP. CONTRACTOR SHALL PROVIDE AN ANSUL FIRE SUPPRESSION SYSTEM FOR RANGE HOOD. SYSTEM SHALL HAVE APPLIANCE INTERLOCK TO SHUT DOWN APPLIANCES IN EVENT OF FIRE.

FIRE ALARM NOTES:

A FIRE ALARM SYSTEM HAS BEEN DETERMINED TO BE NECESSARY AS PER NFPA 101 AND/OR IBC REQUIREMENTS FOR THIS PROJECT.

Harbor Boulevard



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PROJECT # 121564

Gardner Spencer Smith Tench &

Jarbeau A Professional Corporation

for the Practice of Architecture

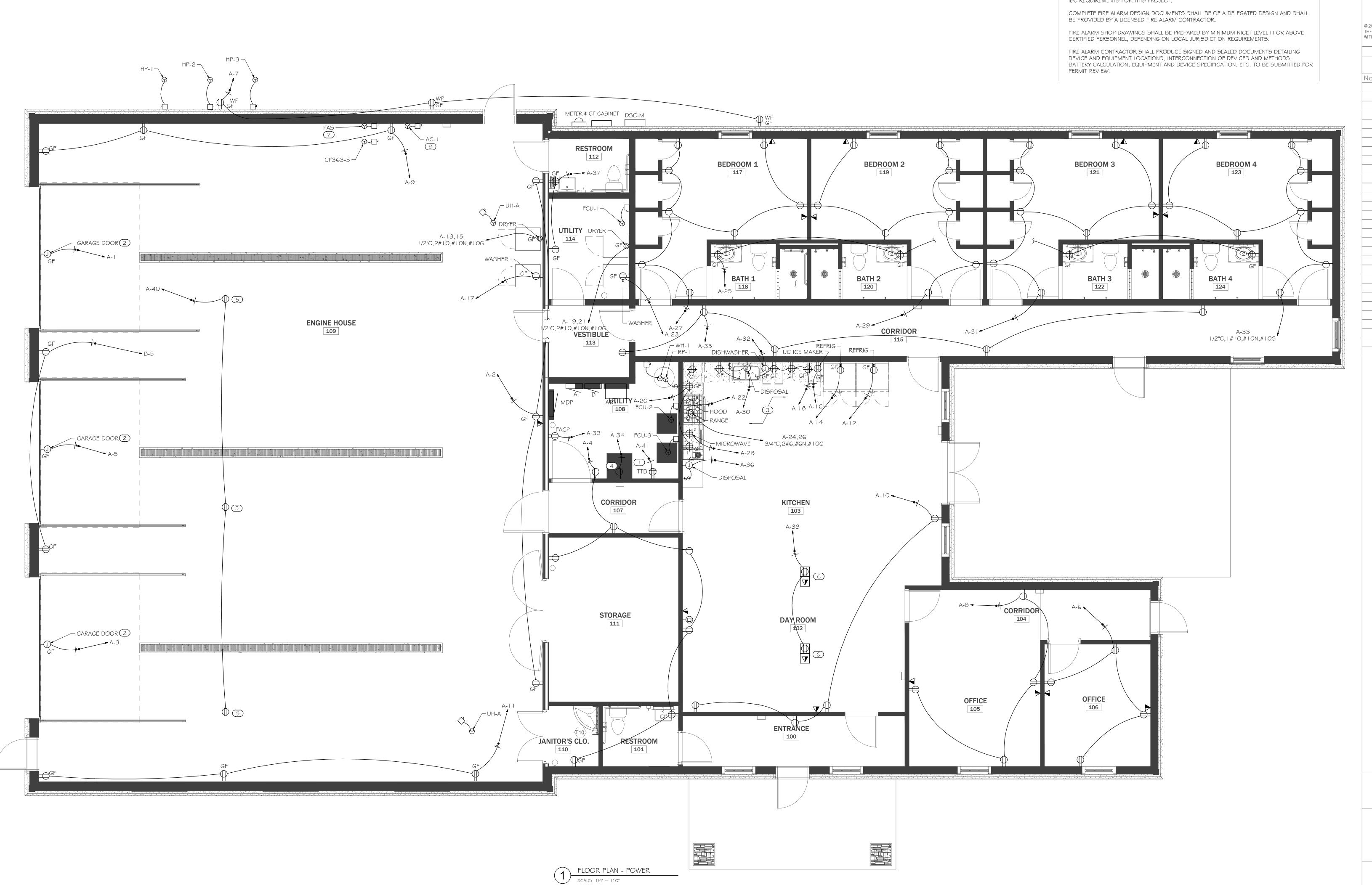
:Tower Place Building,

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

:20112

SHEET TITLE :FLOOR PLAN -POWER

SHEET NO.



LIGHTING CONTROL

CONTRACTOR SHALL PROVIDE LIGHTING CONTROL REQUIRED BY IECC 2015. COORDINATE WITH LIGHTING VENDOR FOR REQUIRED DEVICES TO ACCOMPLISH THE REQUIREMENT OF

PRIVATE OFFICE: MANUAL ON OR AUTO ON FOR HALF OR LESS FIXTURES. C405.2.1.1.2 AUTO OFF ON ALL FIXTURES VIA OCCUPANCY SENSOR. C405.2.1.1.1 LOCAL CONTROL FOR OCCUPANT CONTROL. C405.2.2.3

CONFERENCE ROOM:

MANUAL ON OR AUTO ON FOR HALF OR LESS FIXTURES. C405.2.1.1.2 AUTO OFF ON ALL FIXTURES VIA OCCUPANCY SENSOR. C405.2.1.1.1

 LOCAL CONTROL FOR OCCUPANT CONTROL. C405.2.2.3 DAYLIGHT CONTROL REQUIRED IF TOTAL WATTAGE OF LIGHTING IS 150W OR MORE. C405.2.3.1\$2

LOBBY & CORRIDOR: FULL AUTO ON. C405.2.1.1.2 FULL AUTO OFF OR TIMECLOCK OFF VIA SYSTEM CONTROLLER. C405.2.1.1.1 OR

DAYLIGHT RESPONSE CONTROL:

SHALL BE PROVIDED WITHIN EACH SPACE WITH SIDELIGHT AND TOPLIGHT DAYLIGHT ZONES TOTALING > 150W.

RESTROOM:

FULL AUTO ON. C405.2.1.1.2

AUTO OFF ON ALL FIXTURES VIA OCCUPANCY SENSOR. C405.2.1.1.1

EXTERIOR LIGHTING:

• LIGHTING SHALL AUTOMATICALLY REDUCE CONNECTED LIGHTING POWER BY NOT LESS
THAN 30% FROM NO LATER THAN MIDNIGHT TO 6 AM FOR ONE HOUR AFTER BUSINESS
CLOSING WHEN OCCUPANCY HAS NOT BEEN DETECTED FOR LONGER HAN 15 MINUTES. C405.2.5.3

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

Harbor Boulevard

Union County



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RELEASED FOR CONSTRUCTION

REVISIONS No. · Date · Description **02.15.22** BID SET

PROFICIENT
ENGINEERING
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Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 121564

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SHEET TITLE :FLOOR PLAN — :LIGHTING

SHEET NO.



| ABBR | EVIATIONS | | |
|----------|----------------------------|--------|----------------------------|
| AAV | AIR ADMITTANCE VALVE | IMB | ICE MACHINE BOX |
| A/C | ABOVE CEILING | IE | INVERT ELEVATION |
| A/F | ABOVE FLOOR | IWH | INSTANTANEOUS WATER HEATER |
| AFF, AFG | ABOVE FINISHED FLOOR/GRADE | L, LAV | LAVATORY |
| B/F, B/G | BELOW FLOOR/GRADE | MBH | I 000 BTU/HR |
| BFP | BACKFLOW PREVENTER | MS | MOP SINK |
| CA | COMPRESSED AIR | MV | MIXING VALVE |
| CONT | CONTINUATION | O/H | OVERHEAD |
| CW | COLD WATER | G | NATURAL GAS |
| DN | DOWN | PD | PUMPED DISCHARGE |
| ET | EXPANSION TANK | PRV | PRESSURE REDUCING VALVE |
| EWC | ELECTRIC WATER COOLER | RP | RECIRCULATION PUMP |
| ex. | EXISTING | S, SAN | SANITARY |
| FCO | FLOOR CLEANOUT | SH | SHOWER |
| FD | FLOOR DRAIN | SK | SINK |
| FHB | FREEZEPROOF HOSE BIBB | TP | TRAP PRIMER |
| FS | FLOOR SINK | TYP | TYPICAL |
| FRH | FREEZEPROOF ROOF HYDRANT | UR | URINAL |
| FWH | FREEZEPROOF WALL HYDRANT | V | VENT |
| GCO | GRADE CLEANOUT | VTR | VENT THROUGH ROOF |
| GI | GREASE INTERCEPTOR | WC | WATER CLOSET |
| НВ | HOSE BIBB | W.C. | WATER COLUMN |
| HD | HUB DRAIN | WCO | WALL CLEANOUT |
| HW | HOT WATER | WHA | WATER HAMMER ARRESTER |
| HWR | HOT WATER RETURN | WMB | WASHING MACHINE BOX |

| LEGEND | |
|-------------------------|--|
| | COLD WATER PIPE |
| | HOT WATER PIPE |
| | HOT WATER RETURN PIPE |
| 5 | SANITARY PIPE |
| | VENT PIPE |
| ——— CA ——— | COMPRESSED AIR PIPE |
| ——— GW ——— | GREASE WASTE PIPE |
| —— F —— | FIRE SPRINKLER PIPE |
| ——— ST ——— | STORM PIPE |
| ——EST—— | EMERGENCY STORM PIPE |
| IW | INDIRECT WASTE PIPE |
| ——— PD ——— | PUMPED DISCHARGE |
| | FILTERED WATER PIPE |
| o | PIPE UP / PIPE DOWN |
| | PIPE TEE FROM TOP / TEE FROM BOTTOM |
| E | PIPE CAP / PIPE CONTINUATION |
| \ | DIRECTIONAL FLOW ARROW |
| - &- - ₹- | BALL VALVE / CHECK VALVE |
| | MIXING VALVE / PRESSURE REDUCING VALVE |
| | BACKFLOW PREVENTER ASSEMBLY |
| [| WALL HYDRANT / HOSE BIBB |
| | FLOOR DRAIN / FLOOR SINK |
| | WATER HAMMER ARRESTOR |
| <u> </u> | GAS COCK / GAS SOLENOID VALVE |
| α | P-TRAP |
| ©c | HUB DRAIN |
| <u></u> | TRAP PRIMER |
| • | FLOOR CLEANOUT / GRADE CLEANOUT |
| \otimes | VENT THROUGH ROOF |
| i— i— | PIPE CLEANOUT / WALL CLEANOUT |

SPECIFICATIONS

ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4"

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING, SANITARY P-TRAPS AND GREASE WASTE PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN I "THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN IN FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

TURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

ALL ITEMS MUST BE SUBMITTED IN ONE PACKAGE AT THE SAME TIME. IN ELECTRONIC PDF FORMAT. SEPARATE SUBMITTALS FOR FIXTURES AND EQUIPMENT IS NOT ACCEPTABLE. SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR TERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATIOI

HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S

SIZE HANGERS FOR INSULATED PIPING TO BEAR ON OUTSIDE OF INSULATION. PROVIDE INSULATION PROTECTORS AT HANGERS BEARING ON THE OUTSIDE OF INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.

WHERE SEVERAL PIPES 21/2" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 308, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 308.5. PIPES SHALL BE SUPPORTED WITHIN 1'-O" OF EACH ELBOW.

VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.

OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.

SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE

AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.

WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.

SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS AND ROOFS. PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE. SLEEVES MAY BE OMITTED WHEN OPENINGS ARE CORE DRILLED FOR CONCEALED VERTICAL AND HORIZONTAL PIPING. SLEEVES ARE NOT REQUIRED AT INDIVIDUAL PLUMBING FIXTURES

OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.

SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR

SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING. PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, I" DEEP AT EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.

SPECIFICATIONS

SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SHALL CONFORM TO ASTM D-2321

WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE GOVERNING CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEAST 10 FOOT OF WATER HEAD PRESSURE APPLIED.

ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 10'-0" AWAY FROM ANY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOULD DRAW AIR FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR TWO SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBINATION WYE EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE OR SANITARY CROSS IS NOT ACCEPTABLE.

WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THERE IS A MORE DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT ANY EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUATELY SLOPED (%)/FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD WATER. PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES.

WATER PIPING ABOVE SLAB: TYPE 'L' HARD DRAWN COPPER TUBING, ASTM B88, WROUGHT SOLDER JOINTS, ANSI B16.22.

WATER PIPING BELOW SLAB: TYPE 'K SOFT DRAWN COPPER TUBING, WITH NO JOINTS BELOW SLAB, ASTM B88.

ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF LOOPSI AT 180°F.

DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL GOVERNING CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SOLID, SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REINFORCED TFE WITH TEFLON PACKING RING AND THREADED ADJUSTABLE PACKING NUT. PROVIDE STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PIPE INSULATION. VALVES SHALL BE APOLLO 70 OR

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 312.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180°F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4½" DIAL SIZE, 0-160PSI (TRERICE 600CB OR EQUAL). CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE TO CONFIRM ADEQUATE PRESSURE TO SERVE THE DOMESTIC WATER SYSTEM. CONTRACTOR SHALL ALERT ENGINEER TO A POTENTIAL LOW PRESSURE CONDITION. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS LSF777).

CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE ISOLATION VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR GROUPS OF FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERVICE AND HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDENTIFIED, INDICATING THE FIXTURE(S) SERVED.

ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84/UL723. COPPER AND CAST IRON PIPING IS APPROVED. THE CONTRACTOR IS RESPONSIBLE FOR

COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR. INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO 11/4": 1" THICK INSULATION. PIPE 11/2" OR

LARGER: 18" THICK INSULATION INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO I ": ""." THICK. PIPING 1/4" AND OVER: I "THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN I "THICK PIPE INSULATION AND BE

LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

INSULATION SHALL HAVE A K-FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU-IN/HR x SQFT x °F.

PIPING PASSING UNDER FOOTINGS OR THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A SLEEVE TWICE THE DIAMETER OF THE PIPE. OPEN ENDS OF SLEEVES SHALL BE SEALED. PIPING PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED IN ACCORDANCE WITH IPC 305.1. ALL PIPING INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6. VERTICAL STACKS IN WOOD CONSTRUCTION SHALL BE PROTECTED FROM BUILDING SETTLING WITH COMPRESSION/EXPANSION FITTINGS AND PIPE CLAMPS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (FERNCO XJ SERIES OR EQUAL).

TANK TYPE WATER HEATERS WATER HEATERS SHALL BE U.L. LISTED AND SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF U.S. DEPT. OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1. WATER HEATERS SHALL HAVE I 50PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE ROD AND HIGH TEMPERATURE CUTOFF SWITCH. WATER HEATERS SHALL BE THERMOSTATICALLY CONTROLLED AND SET TO 120° UNLESS OTHERWISE NOTED. WATER HEATERS SHALL BE INSTALLED ON SUSPENDED PLATFORM, STEEL STAND OR

WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.

CONCRETE PAD, AS INDICATED ON DRAWINGS.

WATER HEATERS SHALL BE INSTALLED LEVEL AND PLUMB. FIELD COORDINATE EXACT WATER HEATER LOCATION. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES, AND INSTALL SUCH THAT CONTROLS AND DEVICES ARE ACCESSIBLE FOR SERVICING.

INSTALL SHUTOFF VALVES IN COLD WATER INLET AND HOT WATER OUTLET. INSTALL THERMOMETER ON HOT WATER OUTLET. WATER HEATER SHALL HAVE ASME RATED COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE IN TOP PORTION OF TANK (FACTORY OR FIELD INSTALLED). PIPE RELIEF VALVE OUTLET TO FLOOR DRAIN. MOP SINK, INDIRECT WASTE RECEPTOR OR TO EXTERIOR. MAINTAIN CONTINUOUS DOWNWARD PITCH TOWARD DISCHARGE LOCATION, AND PROVIDE AIR GAP AT DISCHARGE LOCATION. WHERE WATER HEATER DRAIN PAN IS INDICATED ON PLANS, ROUTE DRAIN TO SAME LOCATION AS RELIEF VALVE AND DISCHARGE WITH AIR GAP.

Peachtree Corners, Georgia 30092

FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM WITH ALL REQUIRED PIPING, SPRINKLER HEADS AND ACCESSORIES FOR THE ENTIRE NEW BUILDING. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONNECTIONS AND ANY OTHER FEES ASSOCIATED WITH THE INSTALLATION OF THE FIRE PROTECTION SYSTEM. CONTRACTOR SHALL COORDINATE THE PERFORMANCE OF A NEW WATER FLOW TEST FOR THE FLOW AND PRESSURE DATA TO BE USED IN HYDRAULIC CALCULATIONS. FIRE PROTECTION CONTRACTOR TO PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH ALL PIPE SIZES, SPRINKLER LOCATIONS, FLOW AND TAMPER SWITCHES,

INSPECTOR TESTS, ETC. THE SHOP DRAWINGS SHALL BE SUBMITTED TO ALL AUTHORITIES HAVING JURISDICTION. AFTER APPROVAL HAS BEEN OBTAINED THE SHOP DRAWINGS

SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL REVIEW. PRODUCT DATA SUBMITTALS SHALL ALSO BE SUBMITTED. THE CONTRACTOR SHALL FULLY COORDINATE ALL PHASES OF WORK WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO AND DURING THE COURSE OF THE INSTALLATION IN ITS ENTIRETY. PIPING INSTALLATION AND THE PLACEMENT OF SPRINKLER HEADS AND SYSTEM DEVICES MUST BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL DUCTWORK AND EQUIPMENT, ELECTRICAL CONDUIT AND DEVICES, PLUMBING PIPING, AND THE STRUCTURAL CONSTRAINTS OF THE BUILDING.

ALL ELEMENTS OF THE FIRE PROTECTION SYSTEM SHALL BE U.L. LISTED. ALL ELEMENTS OF THE FIRE PROTECTION SYSTEM SHALL CONFORM TO REQUIREMENTS OF THE FOLLOWING, AS APPLICABLE: NFPA 13, 14, 20 AND 24; ALL LOCAL, COUNTY AND STATE REGULATIONS; LOCAL FIRE MARSHAL; OWNER'S INSURANCE UNDERWRITER.

WET TYPE PENDENT SPRINKLERS SHALL BE INSTALLED IN ALL AREAS, UNLESS OTHERWISE NOTED. INSTALL UPRIGHT SPRINKLERS IN AREAS WITH UNFINISHED CEILINGS. PENDENT-TYPE SEMI-RECESSED OR CONCEALED SPRINKLERS SHALL BE INSTALLED IN FINISHED CEILINGS. INSTALL SIDEWALL SPRINKLERS AS NEEDED FOR FULL COVERAGE. PROVIDE SPRINKLERS BY RELIABLE, VIKING OR TYCO. ALL AREAS OF THE BUILDING SHALL BE COMPLETELY SPRINKLERED USING THE APPROPRIATE SPRINKLER HEADS, INCLUDING STAIRWELLS (AT TOP AND BELOW THE LOWEST LANDING),

TELEPHONE ROOMS, ELECTRICAL ROOMS, ELEVATOR SHAFTS, ELEVATOR MACHINE ROOMS, AND LAUNDRY CHUTES. SPRINKLER PIPING MAY EXTEND INTO, BUT NOT PASS THROUGH,

ANY DISCREPANCIES ENCOUNTERED BY THE CONTRACTOR IN THE REPRESENTATION OF THESE DRAWINGS OR SPECIFICATIONS SHALL IMMEDIATELY BE COORDINATED WITH THE ARCHITECT.

SPRINKLER SPACING SHALL BE NO MORE THAN 15' (225 SQFT PER HEAD MAXIMUM FOR LIGHT HAZARD AND 130 SQFT PER HEAD MAXIMUM FOR ORDINARY HAZARD). SYSTEM TO BE HYDRAULICALLY CALCULATED ACCORDING TO THE FOLLOWING: LIGHT HAZARD OCCUPANCIES (I.E. PUBLIC SPACES, OFFICES, RESTAURANT SEATING AREAS, GUESTROOMS), O. I O GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST REMOTE 1,500 SQUARE FEET WITH A 100 GPM HOSE ALLOWANCE. ORDINARY HAZARD GROUP 1 (I.E. MECHANICAL ROOMS, COMMERCIAL LAUNDRIES, PARKING GARAGES, FOOD SERVICE AREAS), O. 15 GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST REMOTE 1,500 SQUARE FEET WITH A 250 GPM HOSE ALLOWANCE. ORDINARY HAZARD GROUP 2 (I.E. SELF STORAGE SPACES, REPAIR GARAGES), 0.20 GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST REMOTE 1,500 SQUARE FEET WITH A 250 GPM HOSE ALLOWANCE.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

SIAMESE FIRE DEPARTMENT CONNECTION SHALL BE PROVIDED ON THE BUILDING OR FREESTANDING REMOTE FROM THE BUILDING, AND SHALL BE READILY VISIBLE BY THE FIRE DEPARTMENT. FDC SHALL BE WITHIN 100' OF A FIRE HYDRANT.

FOR EACH SPRINKLER ZONE, PROVIDE AN ALARM TEST CONNECTION (INSPECTOR'S TEST CONNECTION) NOT LESS THAN I" DIA, IN ACCORDANCE WITH NFPA 13, 16,14,1,1 AS APPLICABLE, COORDINATE WITH ELECTRICAL CONTRACTOR FOR WIRING OF DEVICES REQUIRING INTERLOCK TO THE FIRE ALARM SYSTEM, SUCH AS TAMPER SWITCHES AND FLOW

REMOTE SYSTEM DRAIN TO BE INSTALLED \$ COORDINATED WITH ARCHITECT FOR EXACT LOCATION.

SWITCHES.

A CABINET SHALL BE PROVIDED CONTAINING A SUPPLY OF AT LEAST SIX SPARE SPRINKLERS (OF EACH INSTALLED TYPE) IN AN AREA THAT WILL AT NO TIME EXCEED 100°F. A LIST OF INSTALLED SPRINKLERS SHALL BE POSTED IN THE CABINET.

FIRE PROTECTION PIPING LOCATED IN NON-HEATED SPACES SHALL BE PROTECTED FROM FREEZING. FIRE PROTECTION SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY FREEZE WHERE A DRY PIPE SPRINKLER SYSTEM IS PROVIDED, THE AIR COMPRESSOR SHALL BE BY VIKING CORPORATION OR GENERAL AIR PRODUCTS (OR EQUAL) AND LISTED FOR FIRE



THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION. RELEASED FOR CONSTRUCTION

REVISIONS No. Date . Description .02.14.22.BID SET :07.18.22: REVISION 1

ENGINEERING 6991 Peachtree Industrial Blvd Building 70

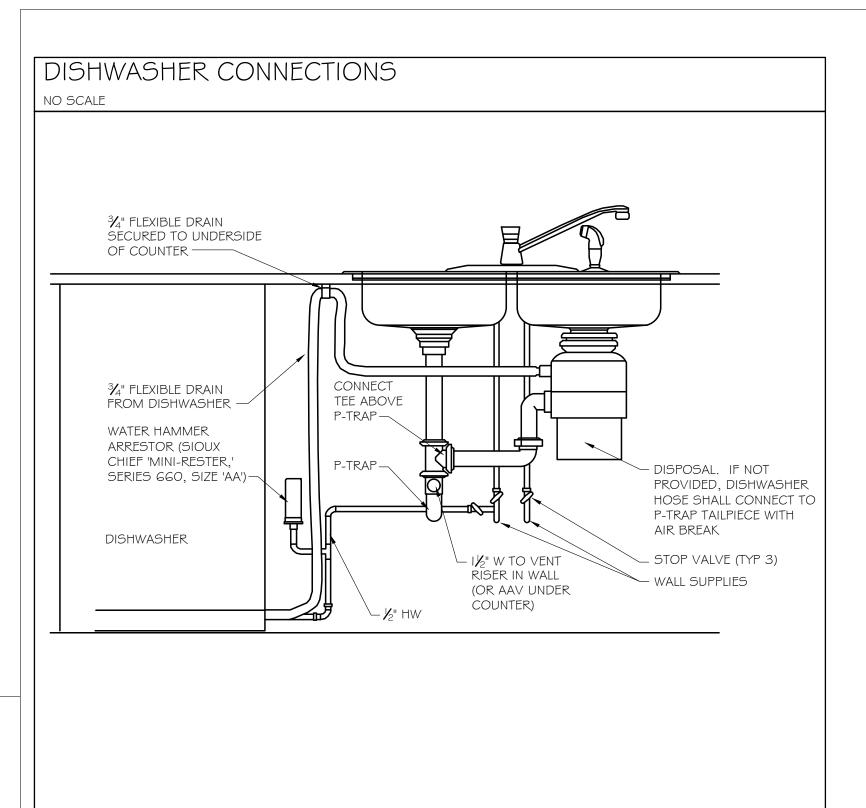
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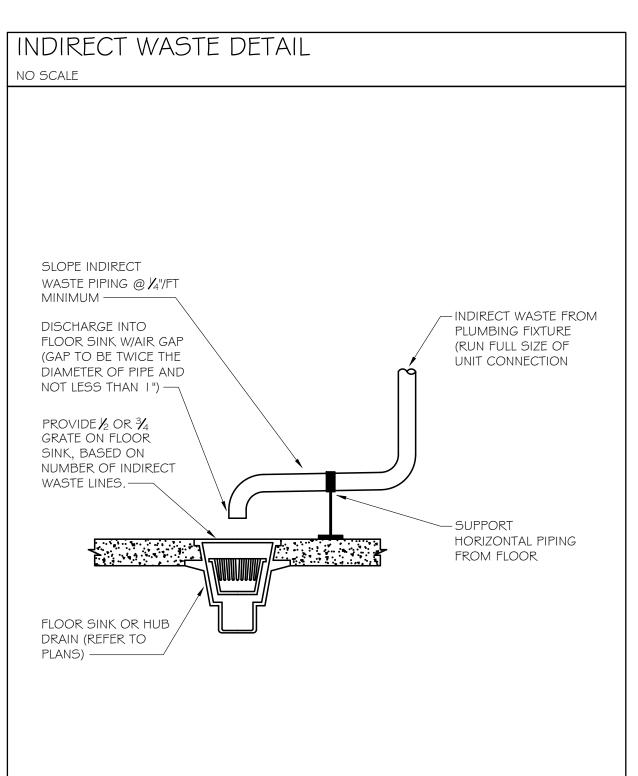
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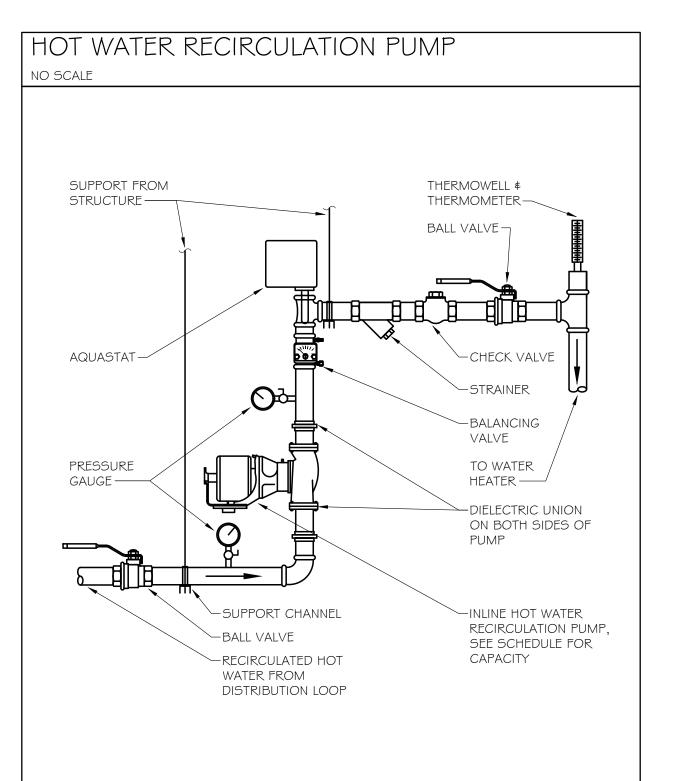
:3340 Peachtree Road, N :Suite 1800 :Atlanta, Georgia 30326| :404.521.2118 (f)

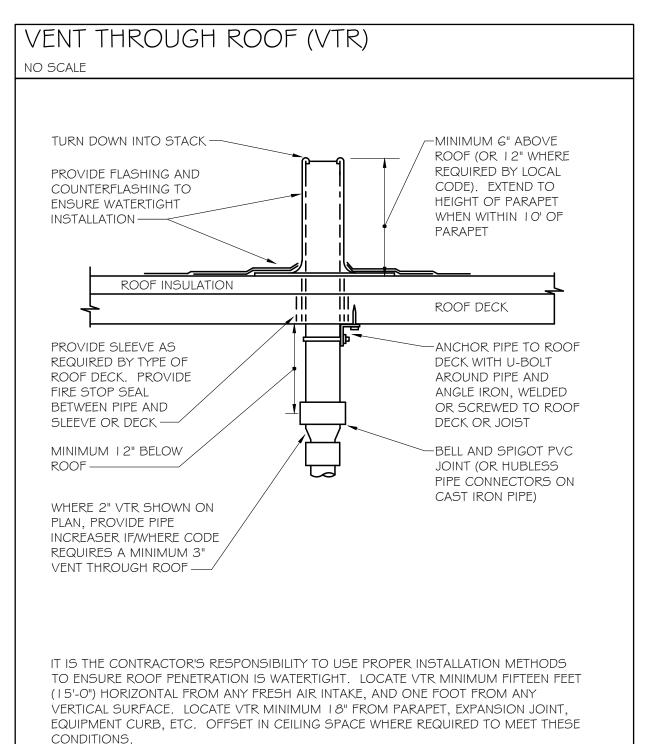
PROJECT NO. :20112

SHEET TITLE GENERAL

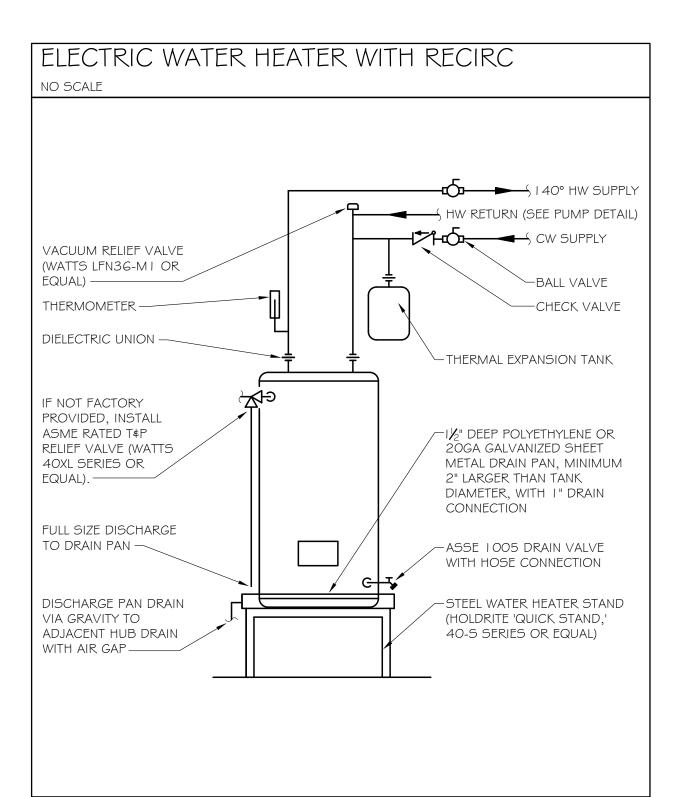


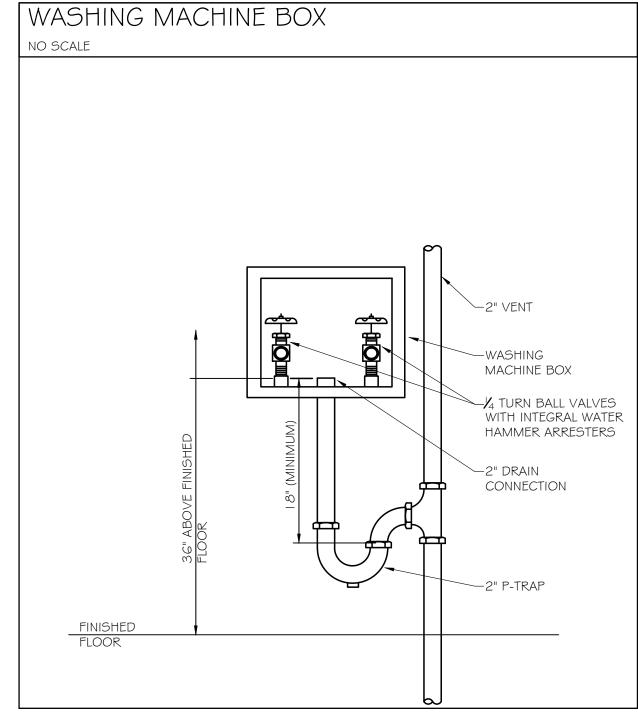


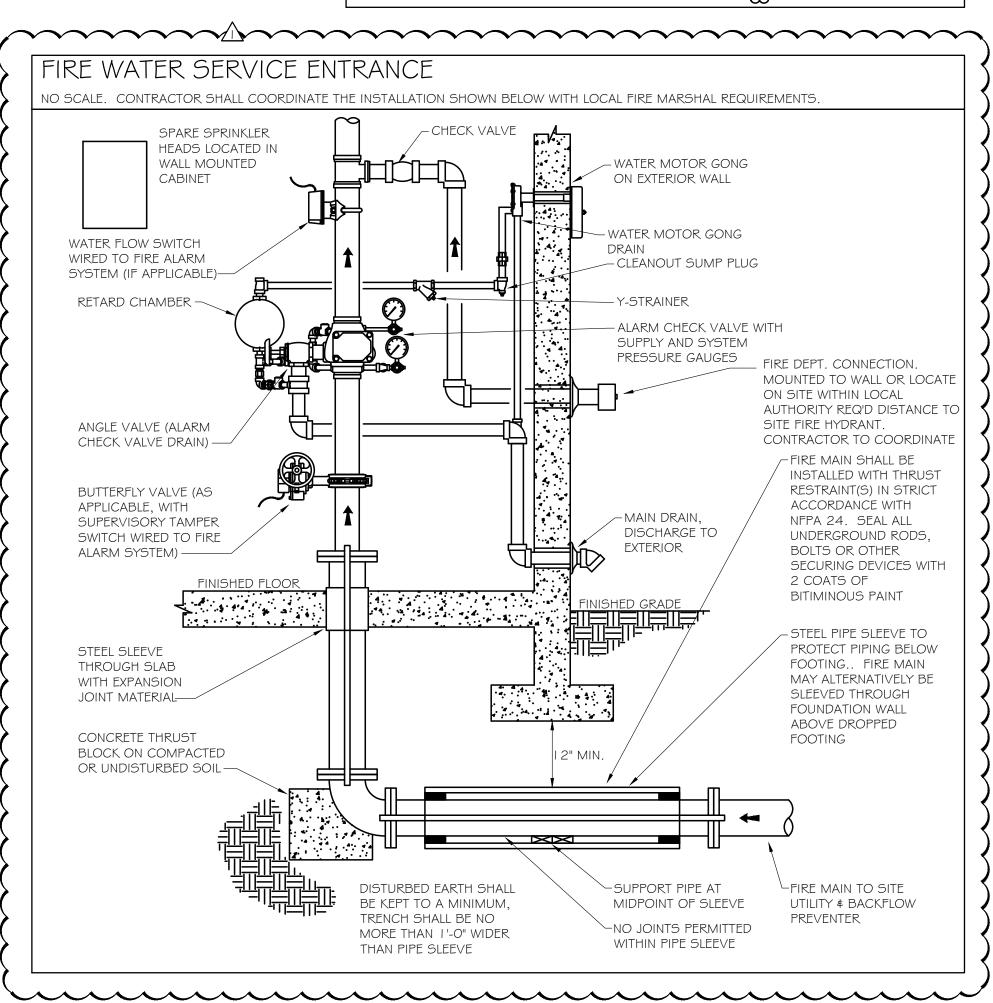


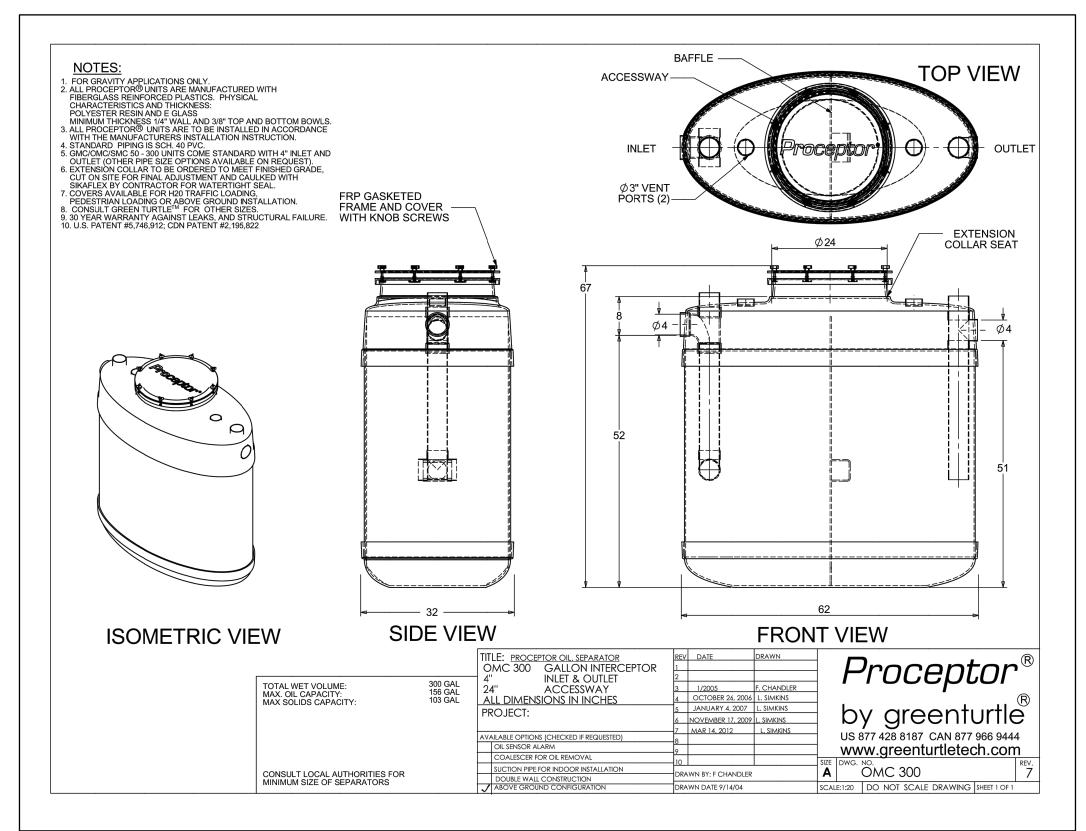


PLUMBING FIXTURE SCHEDULE









RECIRCULATION PUMP SCHEDULE

| MARK | ELECTRICAL | CAPACITY | NOTES | BASIS |
|--------|----------------------------|---------------------------|---|---------------------------|
| RP-1 | 120v | 4.0 GPM @ 10' HEAD | PROVIDE 24-HOUR TIMER. PROVIDE ADJUSTABLE AQUASTAT (HONEYWELL L6006 OR EQUAL). | ARMSTRONG ASTRO SERIES |
| | | | FY THE APPROPRIATE ELECTRICAL CHARACTERISTICS THE POWER PANEL SCHEDULES ON THE ELECTRICAL | |
| CONTRA | ACTOR SHALL INSTALL BALANC | ING VALVE AND SHALL ADJUS | BT AS NEEDED TO ENSURE PUMP FLOW DOES NOT EXC | CEED 5 GPM |
| | | | | |

| | | WASTE | WASTE | | WATER | RUNOUT | WATER | CONN. | _ |
|--------|--|----------|----------|------|----------|--------|----------|-------|--|
| MARK | DESCRIPTION | RUNOUT | CONN. | VENT | CW | HW | CW | НW | SPECIFICATION |
| L-1 | LAVATORY (ADA) - WALL HUNG | 2" | 1 1/2" | 2" | 1/2" | 1/2" | 3/8" | 3/8" | WALL HUNG LAVATORY (AMERICAN STANDARD "LUCERNE," 0355.012) WITH CONCEALED ARM CARRIER MOUNTING (ZURN Z1231). PROVIDE 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (DELTA 501LF-HGMHDF). HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN Z8746-PC) AND CHROME PLATED P-TRAP (ZURN Z8701-PC). CHROME PLATEI BRASS ANGLE SUPPLY STOPS WITH FLEX SUPPLIES (MCGUIRE H165). INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," #103 E-Z). PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER HOT WATER TO 110 DEGREES (LEONARD 170-LF). LEAD FREE, ASSE 1070. |
| L-2 | LAVATORY (ADA) - DROP IN, SELF- RIMMING | 2" | 1 1/2" | 2" | 1/2" | 1/2" | 3/8" | 3/8" | DROP IN LAVATORY (AMERICAN STANDARD "AQUALYN," 0476.028). PROVIDE 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (DELTA 50 LF-HGMHDF). HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN 8746-PC) AND CHROME PLATED P-TRAP (ZURN Z870 -PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH 2" LONG X 3/8" FLEX SUPPLIES (MCGUIRE H 65). WHERE NOT CONCEALED BY COUNTER SHROUD, INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," # 03 E-Z). PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER HOT WATER TO 0 DEGREES (LEONARD 70-LF). LEAD FREE, ASSE 1070. |
| WC-I | WATER CLOSET - TANK TYPE | 4" | 3" | 2" | 1/2" | | 1/2" | | FLOOR MOUNTED, TANK TYPE WATER CLOSET (AMERICAN STANDARD "CADET PRO," 2 5 CA. 04), .28 GPF, WHITE VITREOUS CHINA, GRAVITY FED FLUSH ACTION. TOP OF RIN AT 5" AFF. HIGH EFFICIENCY 'WATERSENSE' LISTED. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, WITH SELF-SUSTAINING CHECK HINGE (BEMIS 0555SC). CHROME PLATED BRASS ANGLE SUPPLY STOP WITH 2" LONG X 3/8" FLEX SUPPLY (MCGUIRE M 66). |
| WC-2 | WATER CLOSET (ADA) - TANK TYPE | 4" | 3" | 2" | 1/2" | | 1/2" | | FLOOR MOUNTED, ADA TANK TYPE WATER CLOSET (AMERICAN STANDARD "CADET PRO RIGHHEIGHT," 2 5AA. 04), 1.28 GPF, WHITE VITREOUS CHINA, GRAVITY FED FLUSH ACTION. TOP OF RIM AT 6.5" AFF. HIGH EFFICIENCY "WATERSENSE" LISTED. PROVIDE ALTERNATE TANK CONFIGURATION (2 5AA. 05) WITH TRIP LEVER ON RIGHT HAND SIDE IF NECESSARY TO HAVE LEVER ON OPEN SIDE OF WATER CLOSET. HEAVY DUTY OPEN FRONT SEAT, LESS COVER, WITH SELF-SUSTAINING CHECK HINGE (BEMIS 05555C). CHROME PLATED BRASS ANGLE SUPPLY STOP WITH 2" LONG X 3/8" FLEX SUPPLY (MCGUIRE M 66). |
| SH-1 | SHOWER | 3" | 3" | 2" | 1/2" | 1/2" | 1/2" | 1/2" | AMERICAN STANDARD "RELIANT 3" SHOWER TRIM (T385.501.002), WITH PRESSURE BALANCING VALVE (R120SS). PROVIDE SHOWER DRAIN WITH FLASHING COLLAR AND ROUN TOP ADJUSTABLE STRAINER HEAD (J.R. SMITH #2010). SHOWER ENCLOSURE AS SPECIFIE BY ARCHITECT. |
| SK-I | STAINLESS SINK, DROP-IN, DOUBLE-BOWL (ADA) | 2" | 1 1/2" | 2" | 1/2" | 1/2" | 3/8" | 3/8" | STAINLESS STEEL DOUBLE BOWL DROP-IN SINK (ELKAY LRAD3322), I HOLE. SINK DIMENSIONS: 33" x 22". BOWL DIMENSIONS: I 3.5" L, I 6" W, G. I 25" D. ADA COMPLIANT I .5 GPM FAUCET WITH PULL-OUT SPRAY (ELKAY LK5000), SINGLE HOLE MOUNTING (LESS ESCHUTCHEON PLATE). MCGUIRE CHROME PLATED P-TRAP W/C.O., CHROME PLATED BRAS ANGLE SUPPLY STOPS, I 2" LONG X 3/8" FLEX SUPPLIES. PROVIDE BASKET STRAINERS (ZURI 2874 I -SS).PROVIDE 3/4 HP GARBAGE DISPOSAL (INSINKERATOR 'EVOLUTION COMPACT' OF EQUAL |
| MS-1 | MOP SINK | 3" | 3" | 2" | 1/2" | 1/2" | 1/2" | 1/2" | 24"X24" FLOOR BASIN (FIAT MSB-2424) AND SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT (830-AA). PROVIDE HOSE AND BRACKET (832-AA), MOP HANGER (889-CC), STAINLESS STEEL BUMPERGUARD (E-88-AA) AND STAINLESS STEEL WALL GUARD (MSG2424). |
| HD-1 | HUB DRAIN | see plan | see plan | | | | | | SIOUX CHIEF 832 SERIES ADJUSTABLE HUB DRAIN FIXTURE, PROVIDE STAINLESS STEEL MESH DEBRIS BASKET PROVIDE ASSE 1072 TRAP SEALER (ZURN Z 1072) |
| TD-1 | TRENCH DRAIN | see plan | see plan | | | | | | I 2" WIDE HEAVY DUTY TRENCH DRAIN (ZURN ZG65). |
| GCO | EXTERIOR GRADE CLEANOUT | see plan | see plan | | | | 2 | | HENDY DUTK ELEMNOUT FOR EXTERNOR APPLICATION (1) P. SMITH (12C1) CAST IRON BODY WITH DOUBLE FLANGED HOUSING AND CAST IRON TOP. |
| BFP-1 | BACKFLOW PREVENTER (REDUCED PRESSURE ZONE) | | | | see plan | | see plan | | REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH TWO INDEPENDENT CHECK MODULES, INTERMEDIATE RELIEF VALVE, AND TEST COCKS (WATTS LF009-QT). LEAD FREE ASSEMBLY SHALL INCLUDE TWO ISOLATION VALVES AND STRAINER. CONFORMS TO ASSE STANDARD 1013. |
| BFP-2 | BACKFLOW PREVENTER (BEVERAGE EQUIPMENT) | | | | 1/2" | | 3/8" | | BACKFLOW PREVENTER WITH DUAL CHECK VALVES, ATMOSPHERIC VENT AND INTEGRAL STRAINER, LEAD FREE. FOR 3/8" EQUIPMENT CONNECTIONS, PROVIDE WATTS SD-3 (ASSE 1022). FOR 1/2" OR GREATER CONNECTION, PROVIDE WATTS LF009-QT (ASSE 1013). |
| ET-I | POTABLE WATER EXPANSION TANK | | | | 3/4" | | 3/4" | | LEAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLT-5). 2.1 GALLONS TOTAL VOLUM O.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY). |
| HB-I | HOSE BIBB | | | | 3/4" | | 3/4" | | WOODFORD MODEL 24C HOSE BIBB WITH KNOB HANDLE AND 3/4" HOSE CONNECTION WIT ANTI-SIPHON VACUUM BREAKER (ASSE 1011). |
| FWH-I | FREEZEPROOF WALL HYDRANT IN BOX | | | | 3/4" | | 3/4" | | CONCEALED 3/4" HOSE CONNECTION IN WALL BOX, WITH INTEGRAL AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER (J.R. SMITH 5509QT). LENGTH TO SUIT WALL THICKNESS. PROVIDED WITH QUARTER TURN, SQUARE FITTING, T-HANDLE KEY. |
| IMB- I | ICE MAKER/REFRIGERATOR BOX | | | | 1/2" | | 1/2" | | ICE MAKER CONNECTION BOX (OATEY #385x/386xx SERIES), 6"X6". LOW LEAD, 1/4 TURN BRASS VALVE WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTOR. WHERE BO IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 391xx SERIES. PROVIDE BACKFLOW PREVENTER IN SUPPLY LINE (WATTS 'SD3,' ASSE 1022). |
| WMB- I | WASHING MACHINE BOX | 2" | 2" | 2" | 1/2" | 1/2" | 1/2" | 1/2" | WASHING MACHINE CONNECTION BOX (OATEY 3874x SERIES), 1/4 TURN BRASS BALL VALVE WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTORS. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 3847X SERIES. INTERCEPT DRAINAGE HOS FROM WASHING MACHINE AND INSTALL INLINE WALL MOUNTED CANISTER STYLE LINT TRAP WITH REMOVABLE FILTER (FILTROL 160, OR EQUAL). LINT TRAP DRAINS TO WALL BOX. |

| MARK | TANK CAPACITY | RECOVERY | SETPOINT | ELECTRICAL | BASIS |
|------|------------------|-------------------|----------|------------|-------------------|
| WH-I | 80 GAL | 92 GPH @ 80° RISE | 120° | 18 KW | A.O. SMITH DSE-8C |

Union County Fire Station

Harbor Boulevard at





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Peachtree Corners, Georgia 30092
404.330.9798

PROJECT # 121564

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Smith
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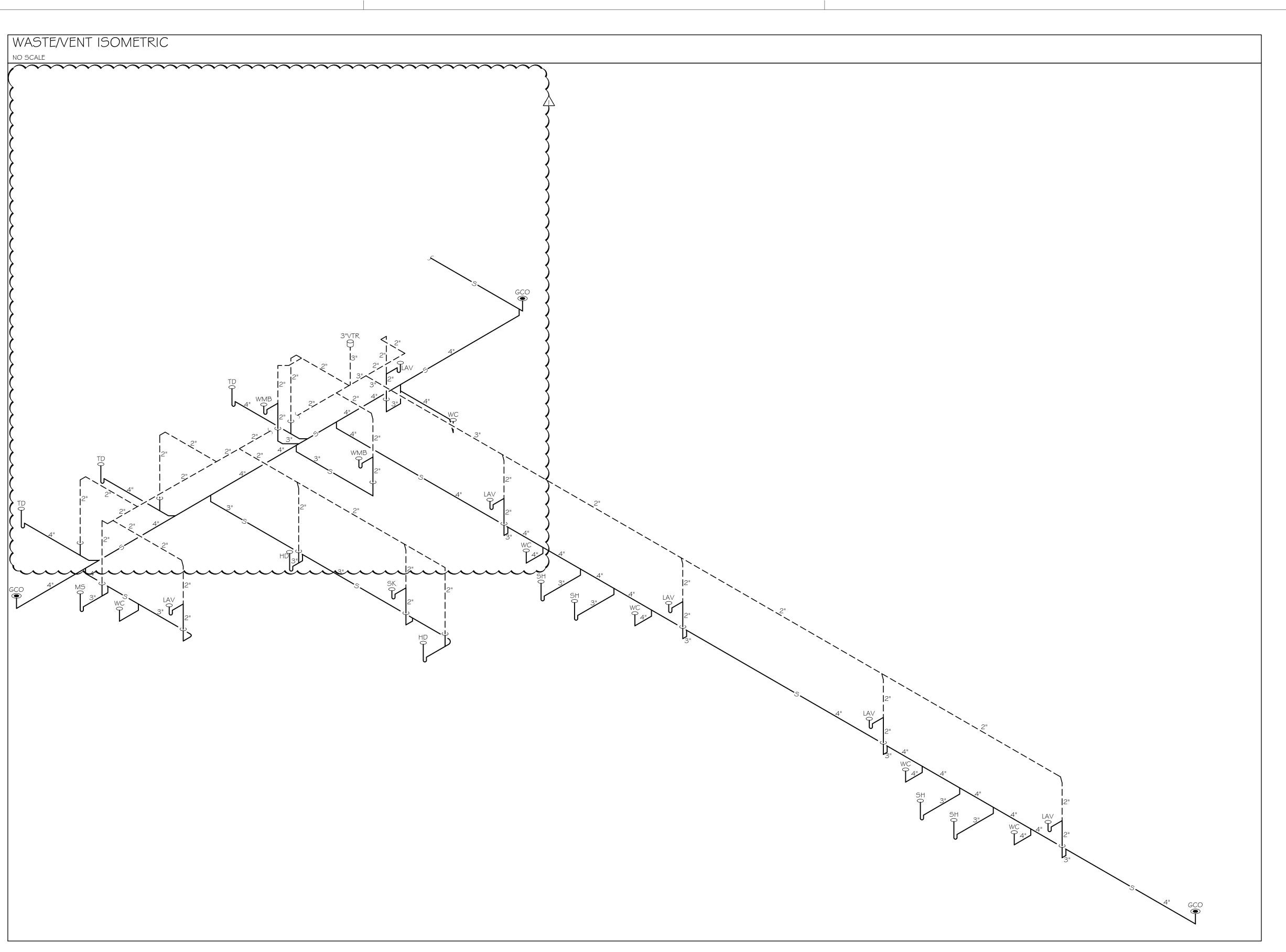
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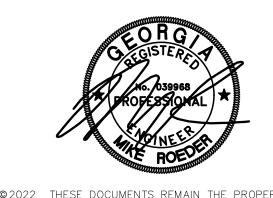
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: SHEET TITLE :DETAILS & :SCHEDULES

SHEET N



Harbor Boulevard at Murphy Highway Blairsville, Georgia 30512



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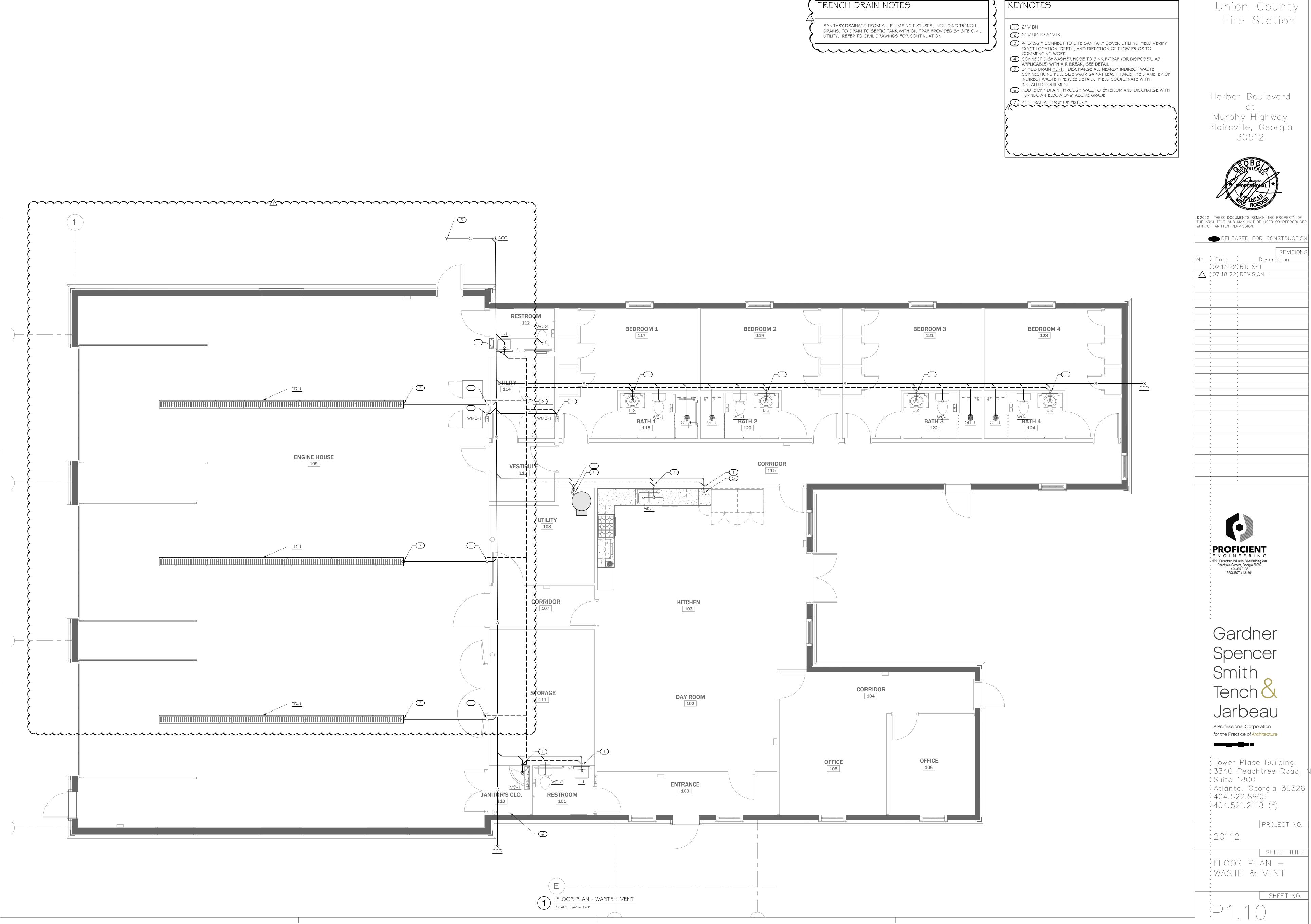
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PROJECT NO.

:20112

SHEET TITLE :WASTE & VENT :ISOMETRIC



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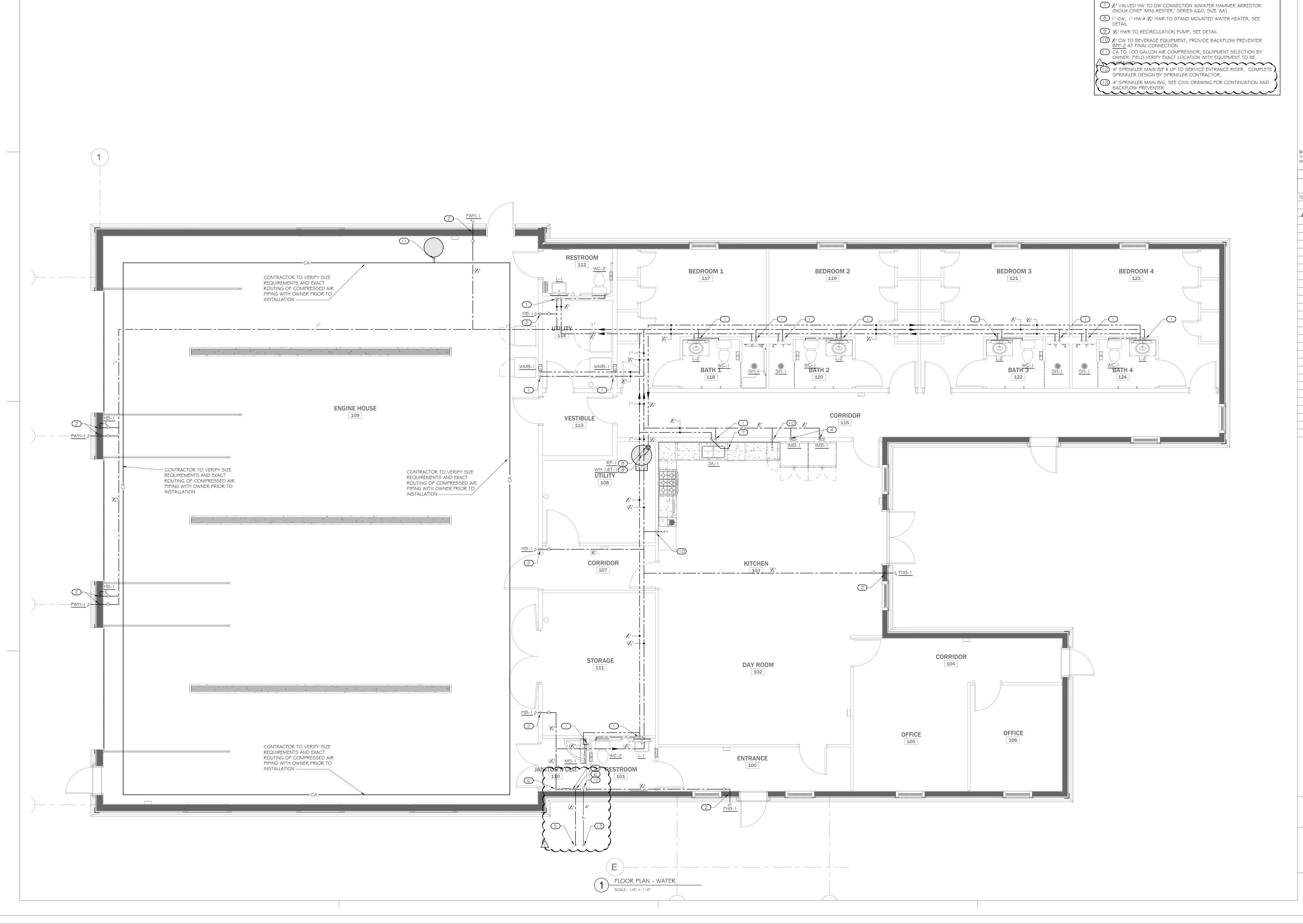
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SHEET TITLE :FLOOR PLAN -:WASTE & VENT



KEYNOTES

2) 3/4" CW DN

4 1/2" CW DN

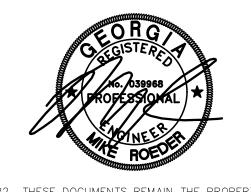
6 11/4" CW DN

3 IZ" CW TO BACKFLOW PREVENTER BFP-I, MOUNTED AT AN ACCESSIBLE LOCATION

5 11/4" DOMESTIC WATER SERVICE B/G, SEE CIVIL DWG FOR CONT

Harbor Boulevard

Murphy Highway Blairsville, Georgia



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: SHEET TITLE :FLOOR PLAN -:WATER