UNION COUNTY ELECTIONS AND VOTER REGISTRATION

51 Industrial Boulevard Blairsville, Georgia 30512

PROJECT TEAM GENERAL NOTES INDEX OF DRAWINGS FOR BID SHEET NO. SHEET DESCRIPTION OWNER 11/23/22 G0.00 | COVER SHEET **UNION COUNTY** COMMISSIONER'S OFFICE THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS WRITTEN NOTIFICATION TO THE CONTRARY IS COURTHOUSE STREET ISSUED AND SIGNED BY THE OWNER AND/ OR ARCHITECT. BLAIRSVILLE, GEORGIA 30512 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 CONTACT: MR. LARRY GARRETT AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION COVER SHEET 11/10/22 EMAIL: VCMANAGER@UNIONCON.COM 11/10/22 EXISTING SITE CONDITIONS AND DEMOLITION PLAN 11/10/22 SITE LAYOUT AND UTILITY PLAN CHASES SHALL MATCH ADJACENT FINISHED WALLS. ARCHITECT 11/10/22 GRADING PLAN FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CELLINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL FOUIPMENT MAY BE REQUIRED. GARDNER, SPENCER, SMITH, TENCH, & JARBEAU **EROSION CONTROL PLAN** 11/10/22 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. CONSTRUCTION DETAILS 11/10/22 3340 PEACHTREE ROAD, N.E. PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD AS SHOWN IN THE DRAWINGS. OR IF NOT SHOWN, MAXIMUM ALLOWED PER MANUFACTURERS SPECIFICATION. **SUITE 1800** ATLANTA, GEORGIA 30326 CONTACT: RANDY SMITH, R.A., JOSEPH G. GARDNER, NCARB EMAIL: rsmith@gsstj.com, jgardner@gsstj.com Date PHONE: 404-522-8805 MOBILE: 404-281-5251 **ARCHITECTURAL** 11/23/22 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 11/23/22 FLOOR PLAN PARTITION WALLS SHALL BE TAPED AND FINISHED WITH JOINT COMPOUND, INCLUDING THOSE ABOVE THE FINISHED CEILING. PENETRATIONS FOR PIPES, CONDUIT, FRAMING MEMBERS, DUCTS, ETC STRUCTURAL ENGINEER SHALL BE FRAMED WITH RUNNER CHANNELS AND TIGHTLY SEALED. SUCH PENETRATIONS SHALL BE TIGHTLY PACKED WITH MINERAL FIBER SAFING INSULATION. DIMENSION PLAN 11/23/22 **GOODMAN GIANNAVOLA HINES ENGINEERS** EQUIPMENT PLAN 11/23/22 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 311 14TH STREET REFLECTED CEILING PLAN 11/23/22 INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS. 11/23/22 ROOF PLAN ATLANTA, GA 30318 12. ALL ATTACHMENTS, SCREWS AND BOLTS BETWEEN STRUCTURAL STEEL AND TREATED WOOD, BLOCKING AND NAILERS SHALL BE GALVANIZED 11/23/22 BUILDING ELEVATIONS CONTACT: MICHAEL GIANNAVOLA, P.E., S.E., LEED AP 11/23/22 BUILDING ELEVATIONS PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, ETC. PER MFG. RECOMMENDATION. EMAIL: MIKE@GGHENGINEERS.COM WALL SECTION 11/23/22 PHONE: 678.938.5467 SHOP DRAWINGS AND SAMPLES SHALL BE SUBMITTED FOR APPROVAL TO THE INTERIOR DESIGNER/ ARCHITECT PRIOR TO CONSTRUCTION AND/OR PURCHASE OF MATERIALS DESCRIBING THE PORCH SECTION 11/23/22 OVERALL SCOPE AS WELL AS COMPLETE DETAILS OF WORK TO BE PERFORMED. ALL FABRICATION SHALL BE BASED ON ACTUAL FIELD DIMENSIONS. DOOR SCHEDULE AND ELEVATIONS 11/23/22 MECHANICAL ENGINEER 11/23/22 ENLARGED RESTROOM PLANS AND ELEVATIONS 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. 11/23/22 CASEWORK ELEVATIONS PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD 11/23/22 INTERIOR WINDOW ELEVATIONS 16. VISIT THE JOB SITE AND CHECK ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A PRICE FOR PERFORMING ANY WORK. PEACHTREE CORNERS, GA 30092 INTERIOR CONTRACT DOCUMENTS HOLD PRECEDENCE OVER ENGINEER DOCUMENTS FOR LOCATIONS, MOUNTING HEIGHTS, ETC. IF THERE IS A CONFLICT BETWEEN DOCUMENTS, THE CONTACT: JENNIFER DUCHAC, P.E. CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION. EMAIL: JEN@PROFICIENTENGINEERING.COM PHONE: 404.850.4622 ELECTRICAL ENGINEER PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD **STRUCTURAL** PROJECT NOTES/ APPLICABLE CODES PROJECT INFORMATION PEACHTREE CORNERS, GA 30092 STRUCTURAL NOTES AND SPECIAL INSPECTIONS 11/23/22 CONTACT: BRIAN M. ARMENTA, P.E. 11/23/22 FOUNDATION PLAN UNION COUNTY ELECTIONS AND VOTER REGISTRATION EMAIL: BRIAN@PROFICIENTENGINEERING.COM DESCRIPTION: ROOF FRAMING PLAN 11/23/22 INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION WITH GA AMENDMENTS. PHONE: 404.394.1147 11/23/22 FOUNDATION DETAILS **PROJECT** 51 INDUSTRIAL BOULEVARD NATIONAL ELECTRIC CODE (NEC): 2020 EDITION 11/23/22 FRAMING SECTIONS AND DETAILS LOCATION: BLAIRSVILLE, GEORGIA 30512 PLUMBING ENGINEER FRAMING SECTIONS AND DETAILS 11/23/22 INTERNATIONAL FUEL GAS CODE (IFGC): 2018 EDITION WITH GA AMENDMENT. OCCUPANCY BUSINESS (GROUP B) PROFICIENT ENGINEERING, INC. CLASSIFICATION: ASSEMBLY (GROUP Á-3) INTERNATIONAL MECHANICAL CODE (IMC): 2018 EDITION WITH GA AMENDMENTS 6991 PEACHTREE INDUSTRIAL BLVD **BLDG 700** INTERNATIONAL PLUMBING CODE (IPC): 2018 EDITION WITH GA AMENDMENTS PEACHTREE CORNERS, GA 30092 LOAD: INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2015 EDITION WITH GA SUPPLEMENTS VB PER IBC 2018, V(000) PER NFPA 2018 AND AMENDMENTS CONTACT: JENNIFER DUCHAC, P.E. EMAIL: JEN@PROFICIENTENGINEERING.COM INTERNATIONAL FIRE CODE (IFC): 2018 EDITION PHONE: 404.850.4622 NUMBER OF **MECHANICAL** STORIES: GEORGIA ACCESSIBILITY CODE - GAC 120-3-20 - 2015 EDITION 11/23/22 **SPRINKLER** SPRINKLERED NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC): 2018 EDITION SCHEDULES 11/23/22 SYSTEM: FLOOR PLAN 11/23/22 U.S. DEPT. OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA): 2010 EDITION SQUARE PORCH (UNENCLOSED) FOOTAGE: CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE STANDARDS IN GA PROJECT INFORMATION VICINITY MAP **EXISTING BUILDING:** OCCUPANCY CLASSIFICATION OCCUPANCY GROUP: BUSINESS (B) - IBC 2018 **BUSINESS - NFPA 101 2012** OCCUPANCY LOAD: **ELECTRICAL** 11/23/22 CONSTRUCTION CLASSIFICATION ONE-LINE DIAGRAM AND SCHEDULES 11/23/22 VB PER IBC 2018, V(000) PER NFPA 2018 TYPE OF CONSTRUCTION COMCHECK 11/23/22 11/23/22 FLOOR PLAN - POWER SPRINKLERED (YES OR NO) 11/23/22 FLOOR PLAN - LIGHTING BUILDING AREA EXISTING FIRST FLOOR 7,665 SF EXTERIOR CANOPY AREA 1,063 SF TOTAL AREA (SQ.FT.) 8,728 SF **BUILDING HEIGHT** NUMBER OF STORIES: BUILDING HEIGHT (FT.) SCOPE OF BUILDING PERMIT - [X] APPLICABLE BOX SYMBOLS LEGEND PLUMBING FIXTURE DISTRIBUTION PER I.P.C. MINIMUM PLUMBING FIXTURE REQUIREMENTS FLOOR LOAD TOTAL NO. PLUMBING FIXTURES REQUIRED / PLUMBING FIXTURES PROVIDED OF PEOPLE 11/23/22 EXTERIOR 11/23/22 SCHEDULES AND DETAILS ELEVATION SYMBOL FLOOR PLAN - DRAINAGE 11/23/22 26 FEMALE FLOOR PLAN - SUPPLY 11/23/22 1 NOTES 26 MALE (A) EXTERIOR WINDOW TYPE ENLARGED PLAN / DETAIL DRINKING FOUNTAIN DISTRIBUTION MINIMUM REQUIREMENTS INTERNATIONAL PLUMBING CODE REQUIRES: **EQUIPMENT AND** 1 FOUNTAIN PER 100 PEOPLE FOR BUSINESS OCCUPANCY TOILET ACCESSORY TOTAL = 1 REQUIRED / 2 FOUNTAINS PROVIDED SYMBOL SERVICE SINKS: 1 REQUIRED / 1 PROVIDED REVISIONS SYMBOL INTERIOR WINDOW TYPE

INTERIOR ELEVATION SYMBOL

——— COLUMN LINE

Union County **Elections** and Voter Registration

51 Industrial Boulevard Blairsville Georgia 3051.

NOT RELEASED FOR CONSTRUCTION Description Issued for Bid

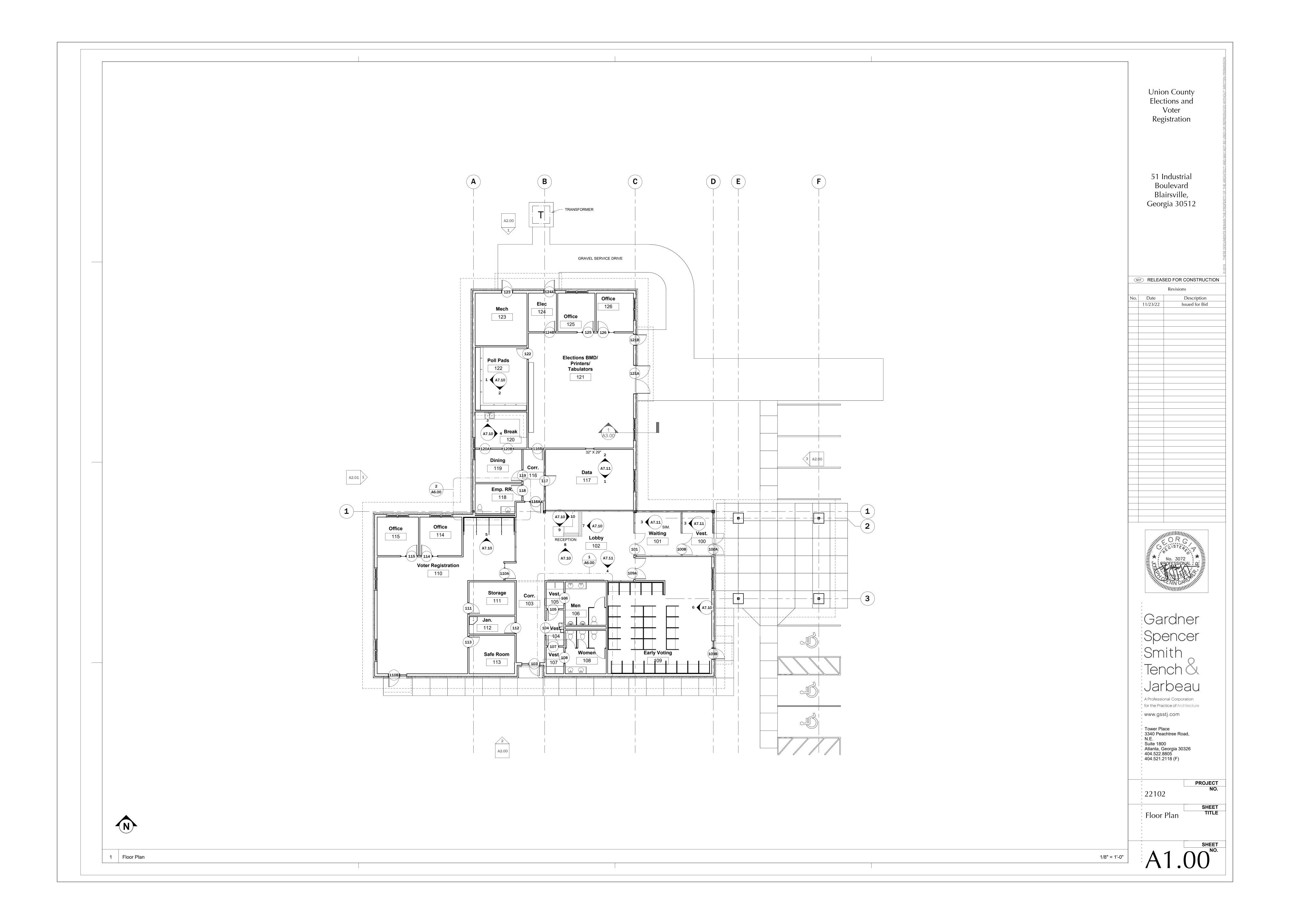
A Professional Corporation of Architecture of Architecture www.gsstj.com

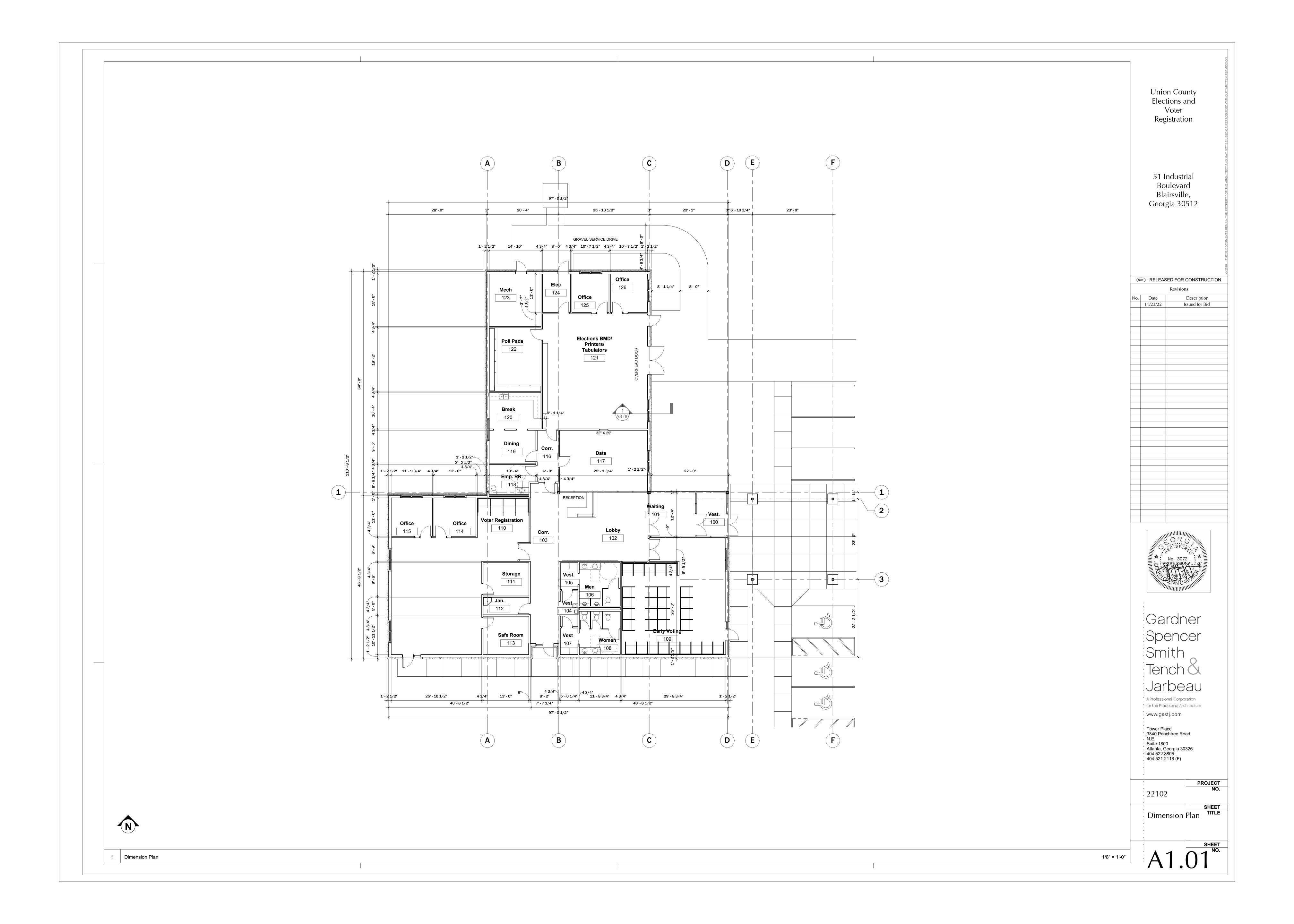
Tower Place 3340 Peachtree Road, Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (F)

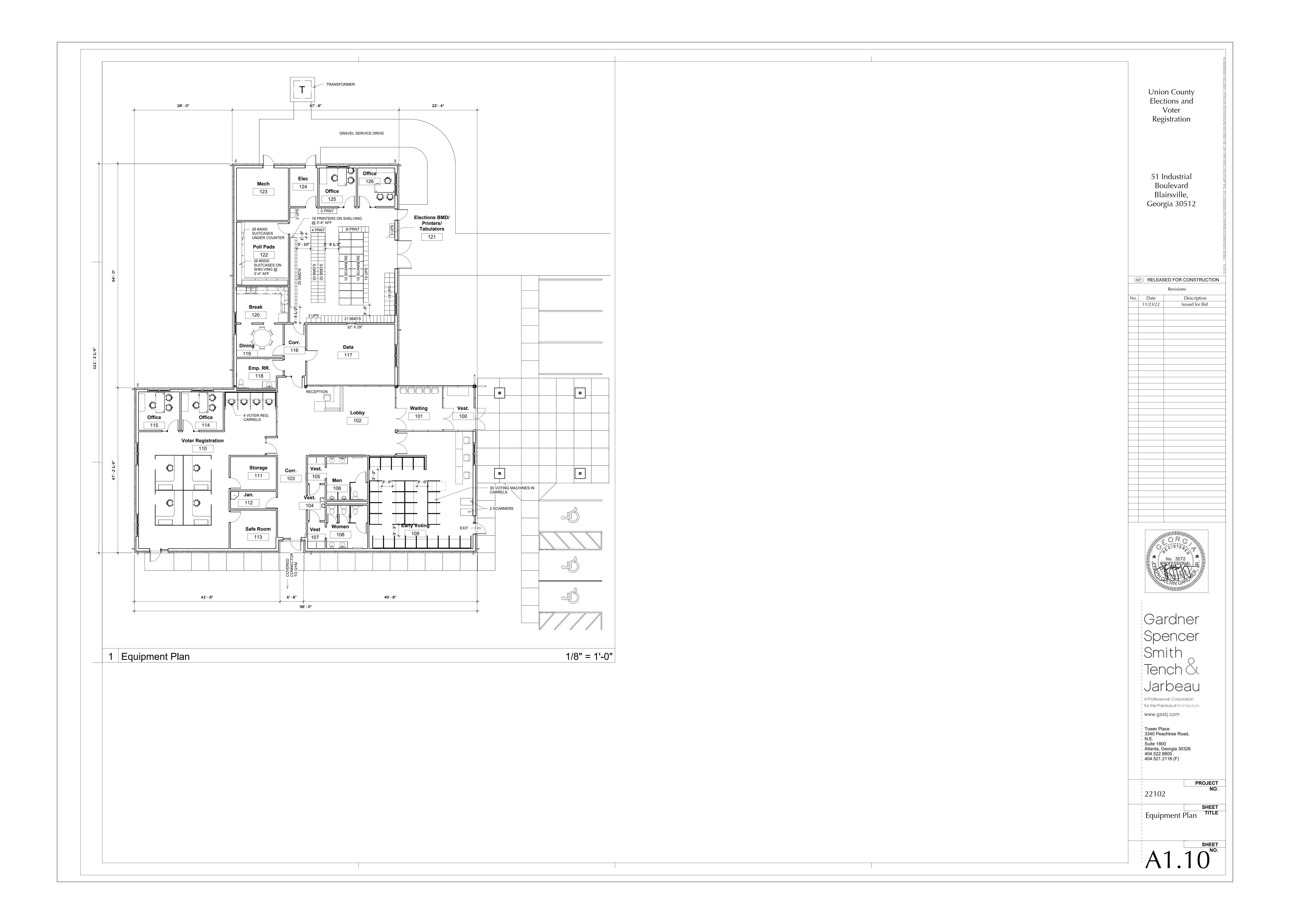
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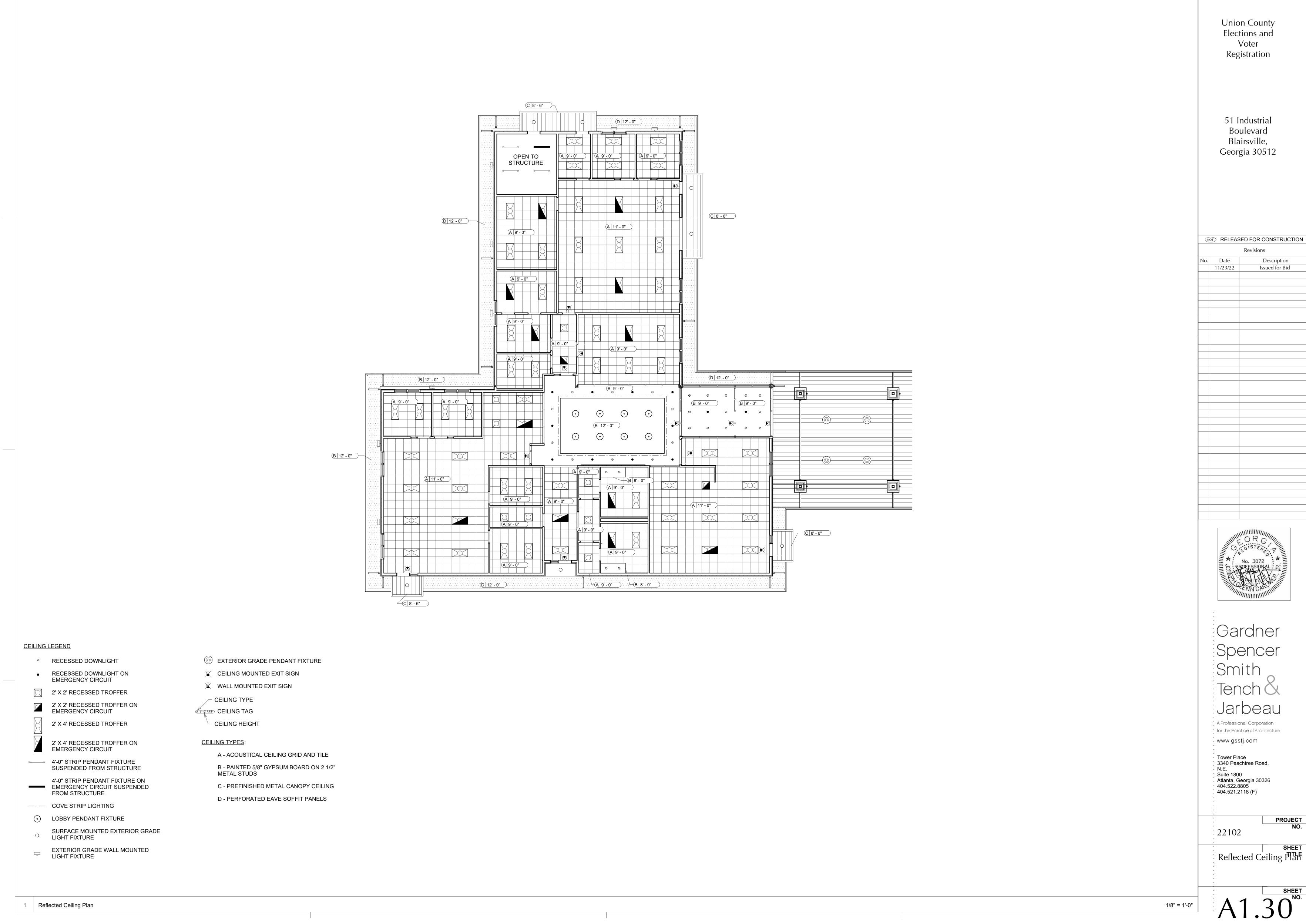
PROJECT

TITLE









Union County Elections and Registration

51 Industrial Boulevard Blairsville,

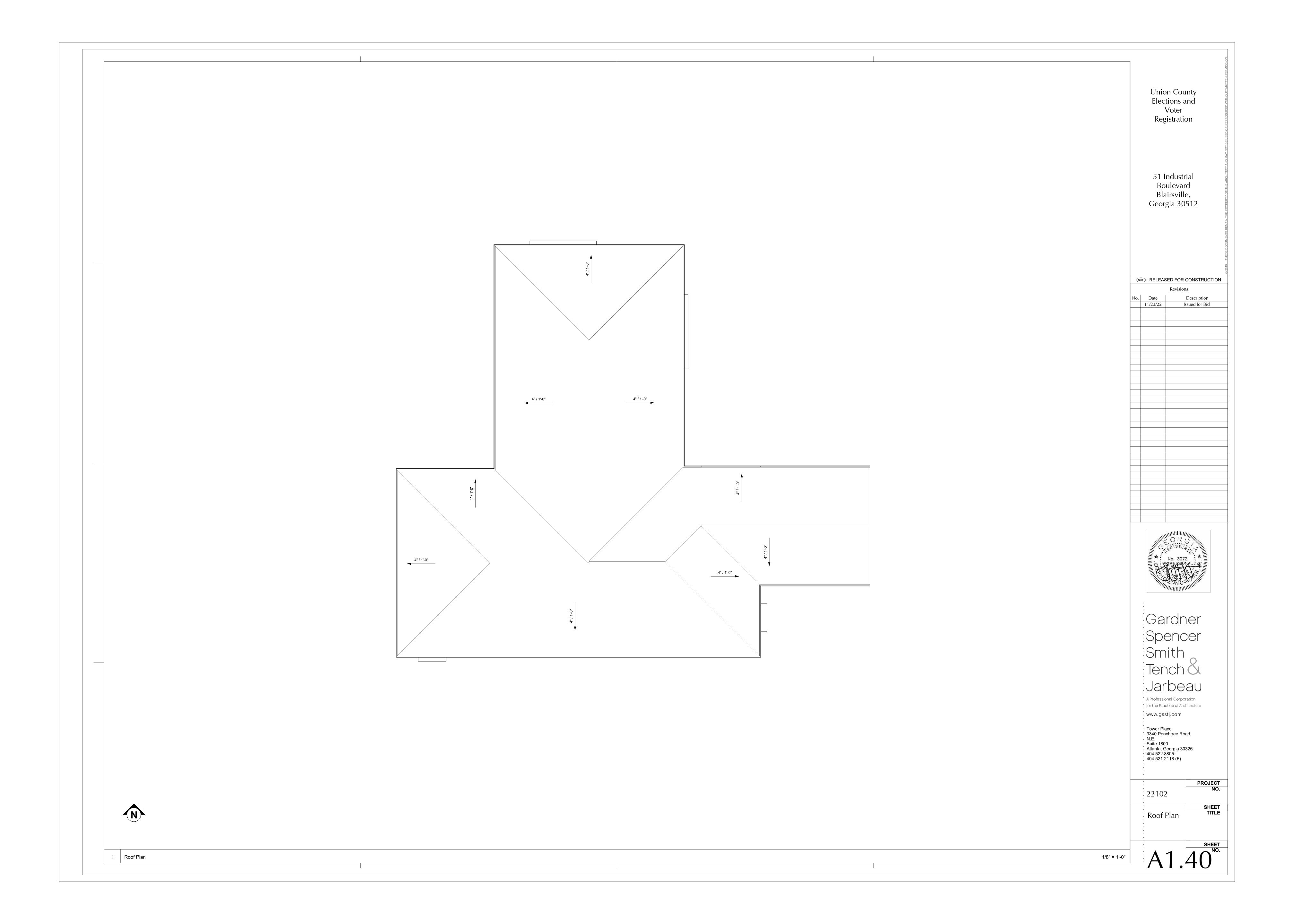
:Jarbeau

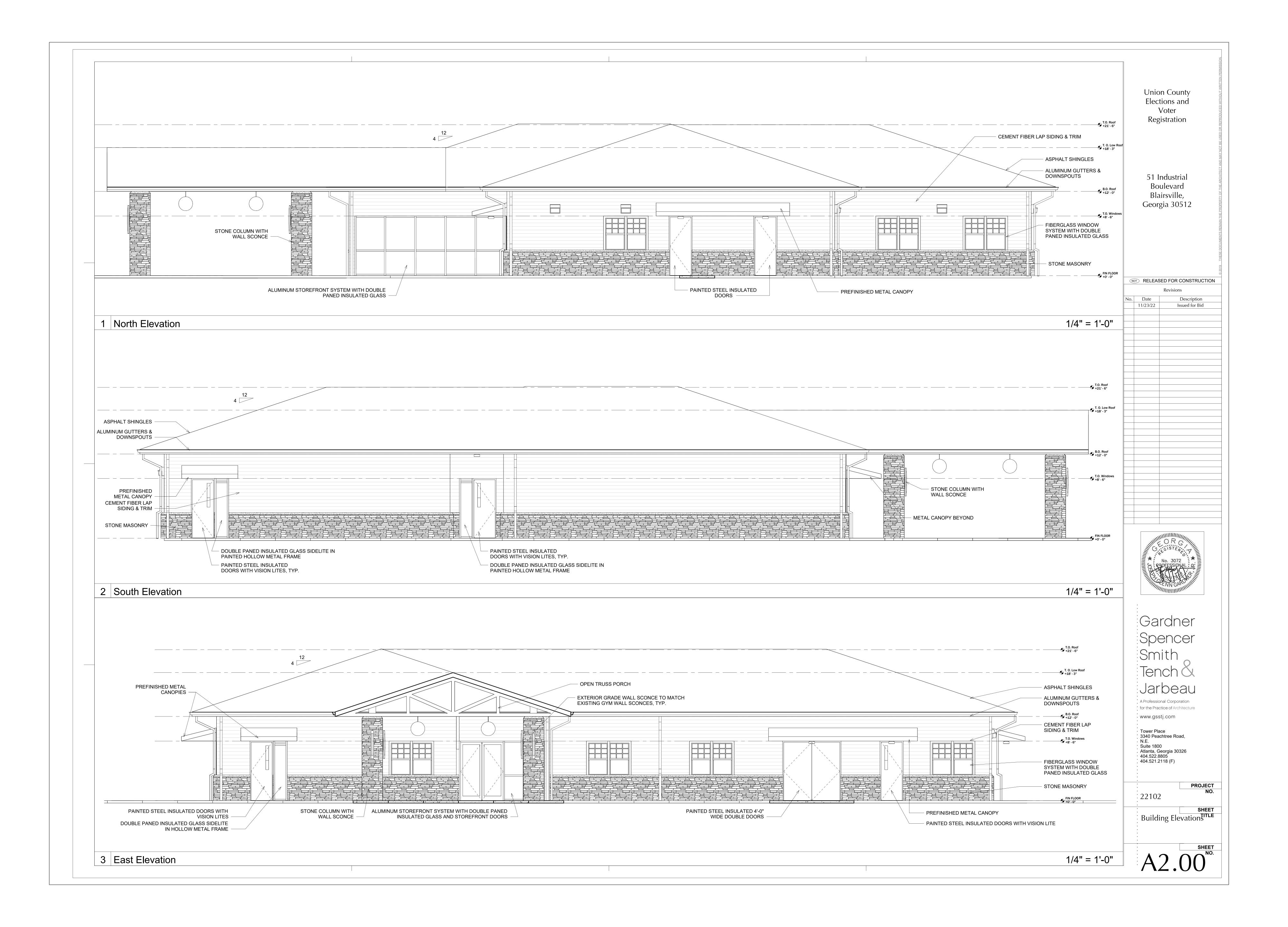
: A Professional Corporation for the Practice of Architecture

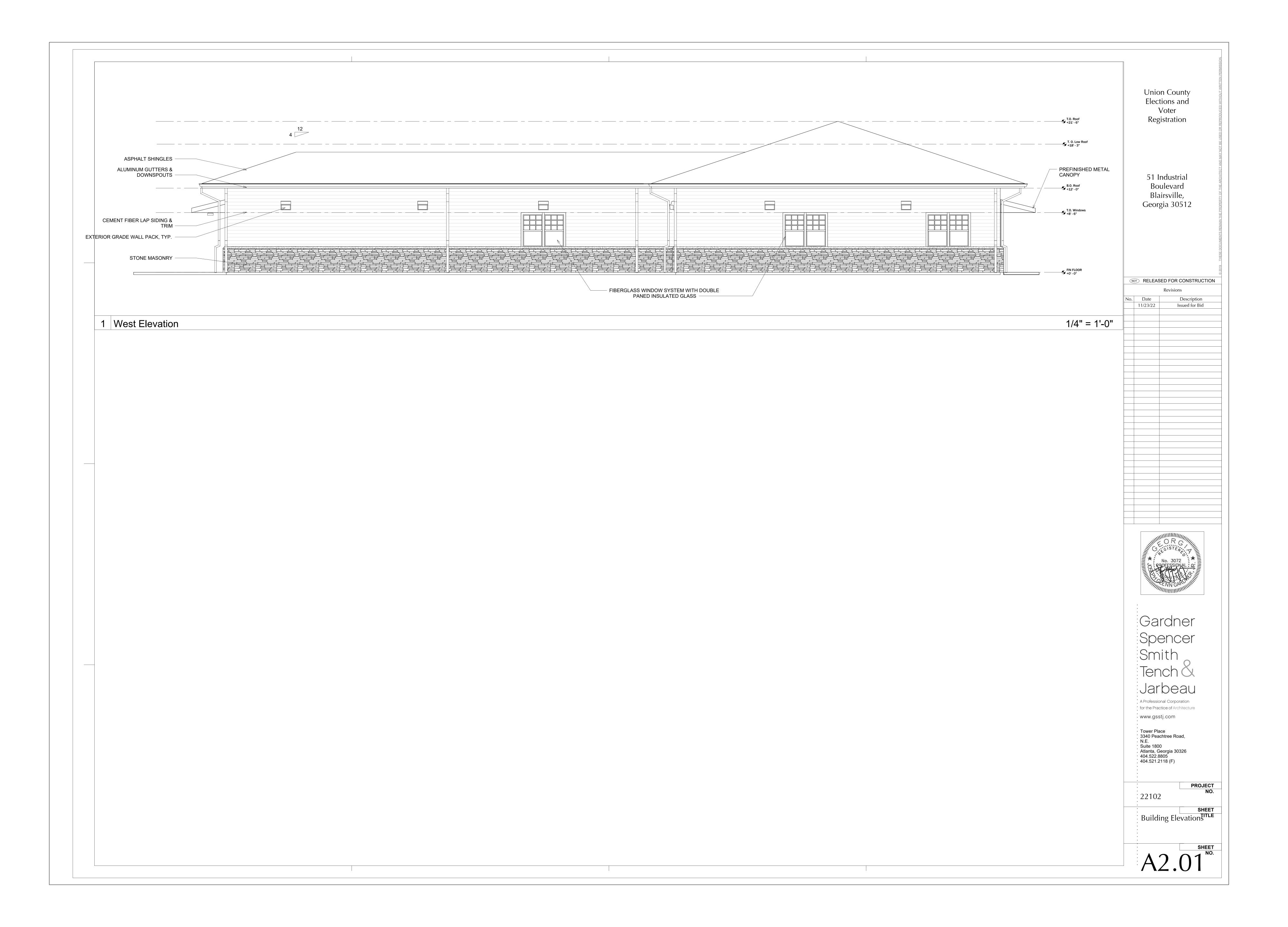
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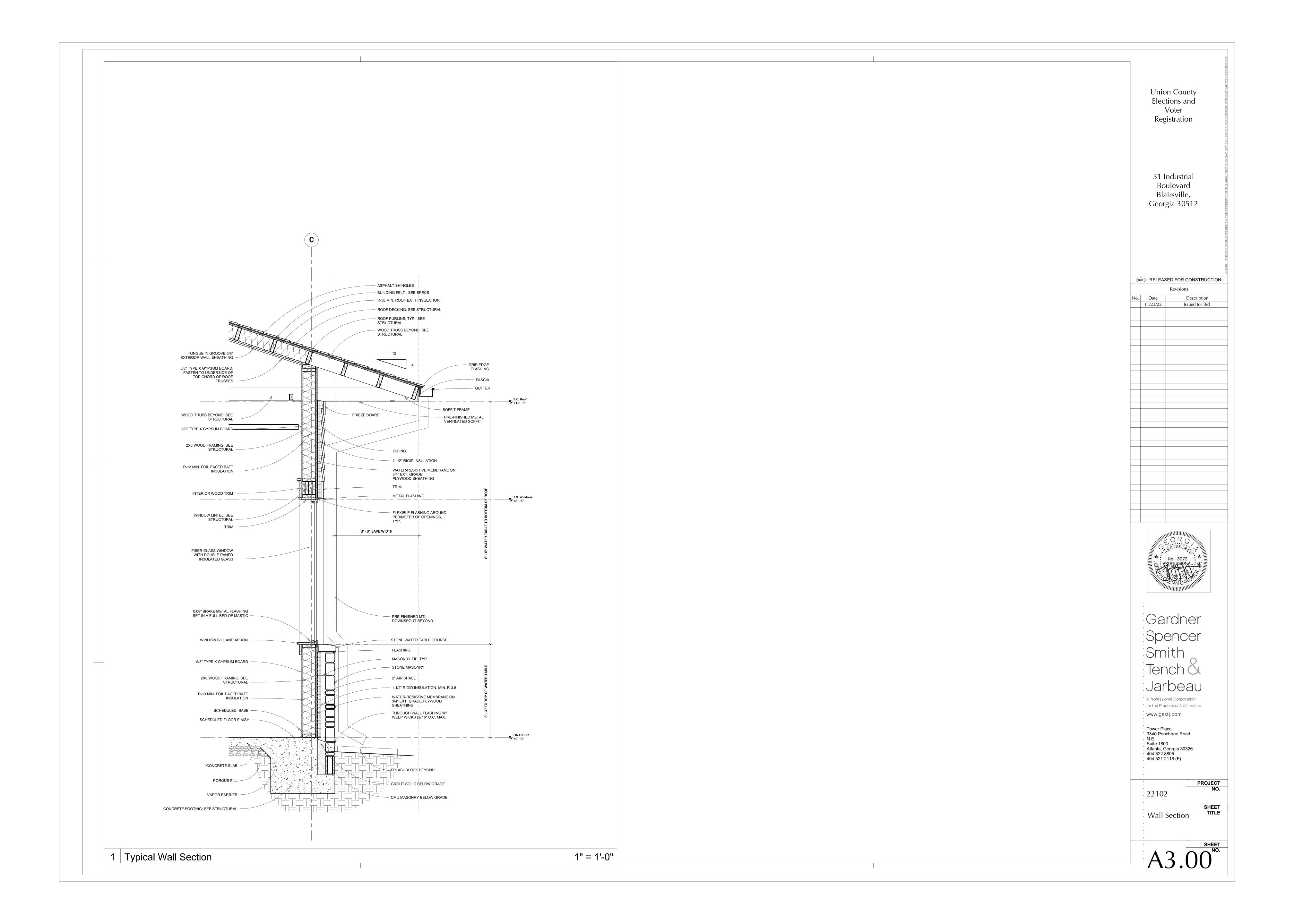
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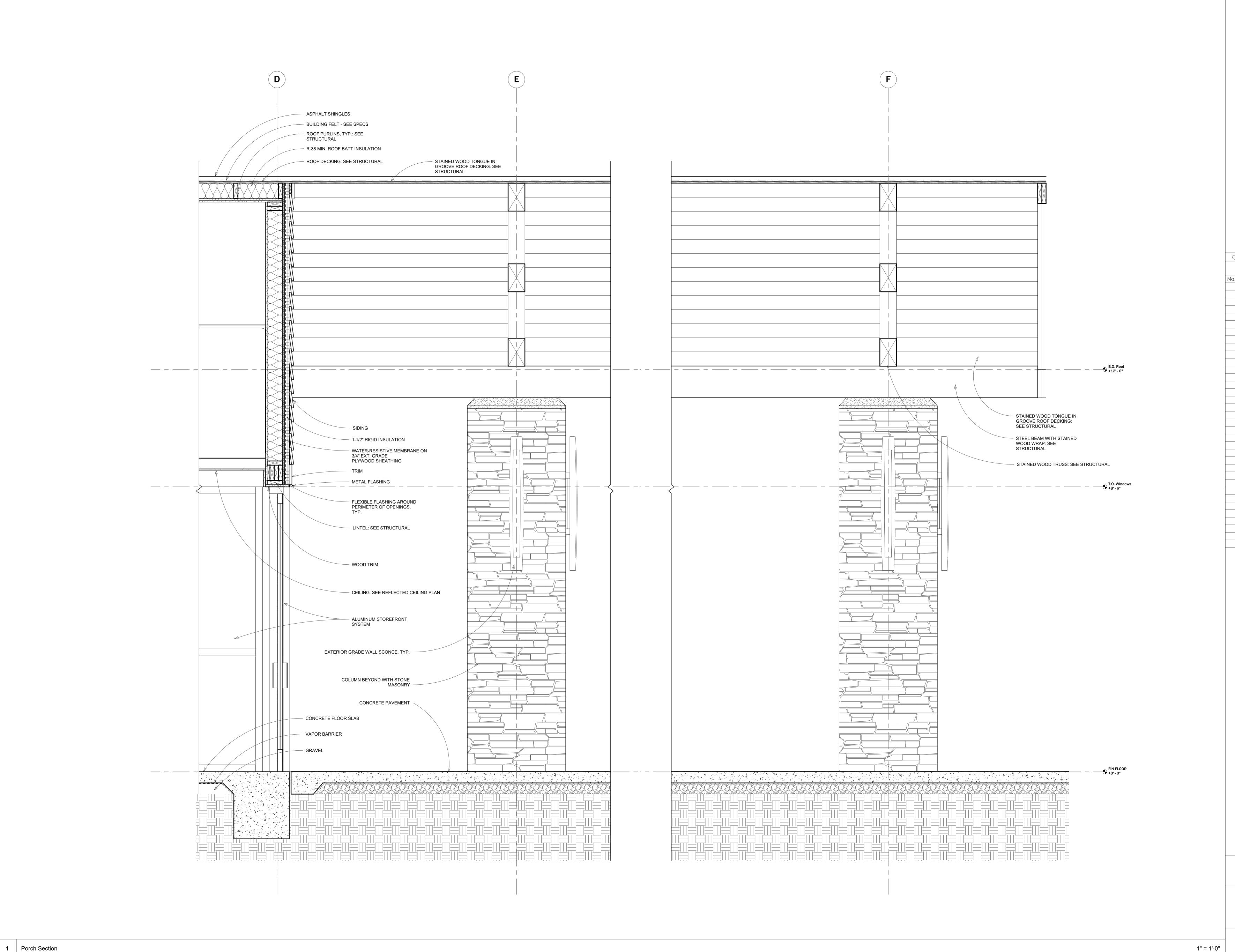
SHEET Reflected Ceiling Plan











Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville, Georgia 30512

NOT RELEASED FOR CONSTRUCTION Revisions Description 11/23/22 Issued for Bid

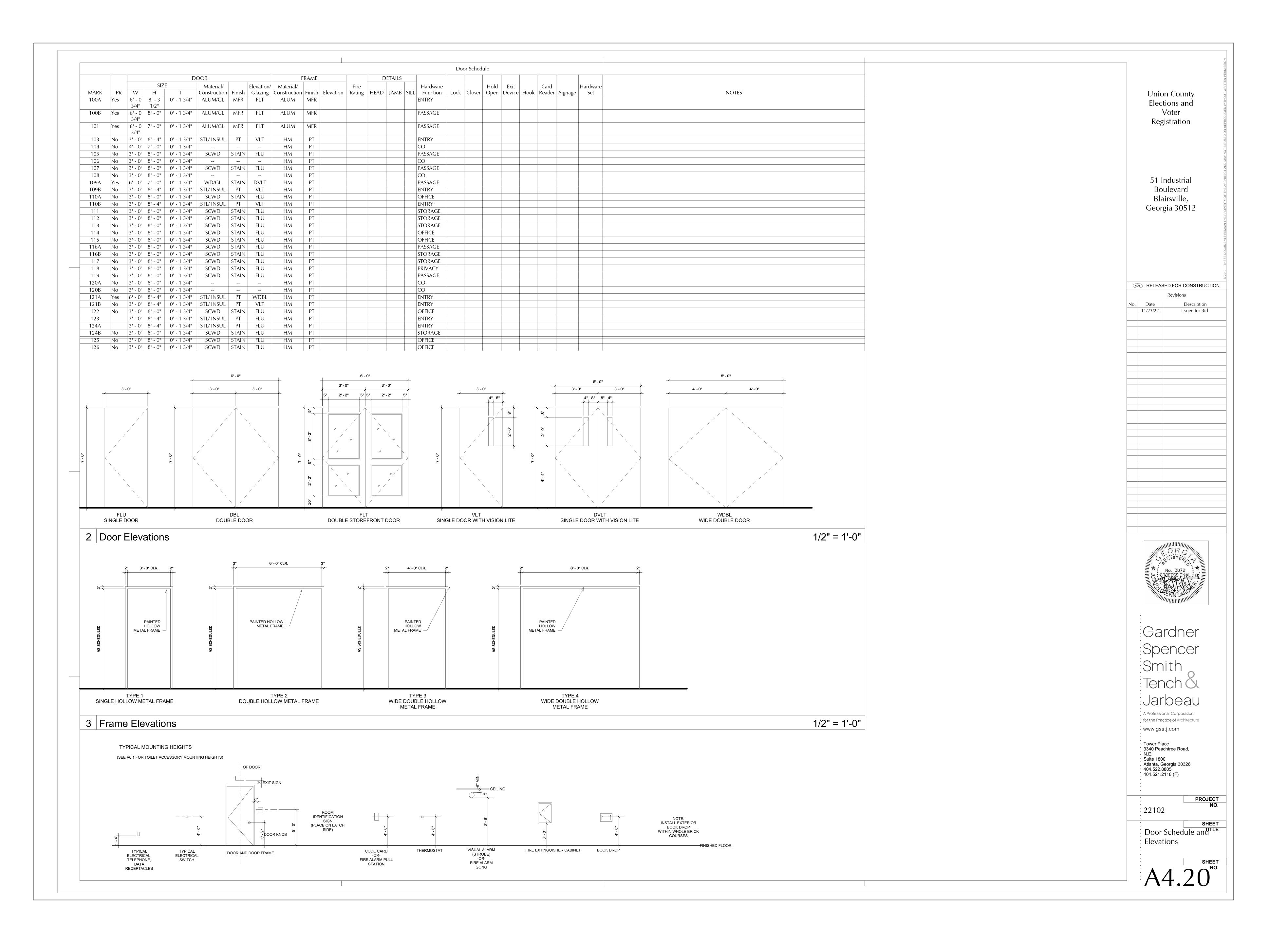
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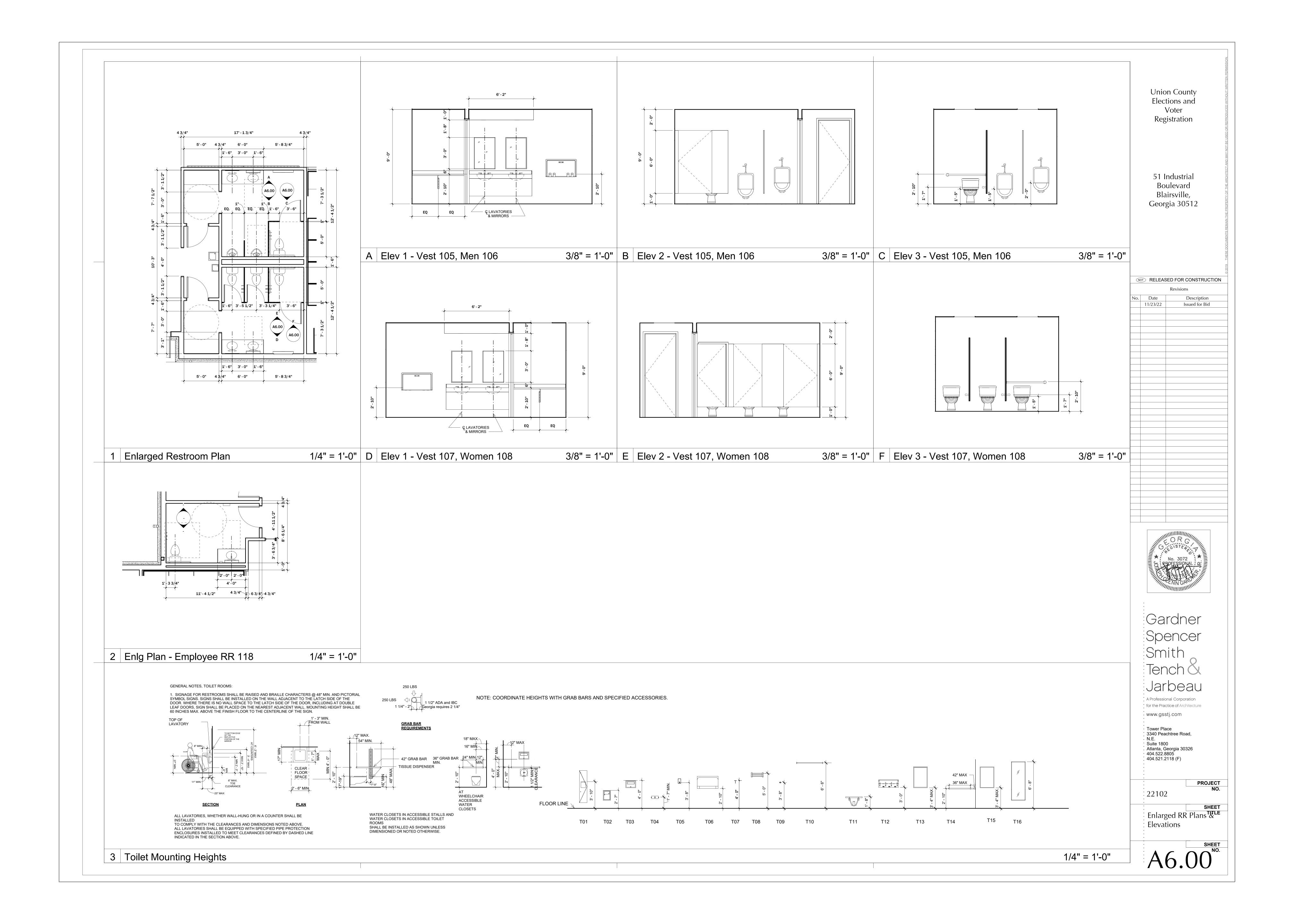
 Tower Place 3340 Peachtree Road, Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (F)

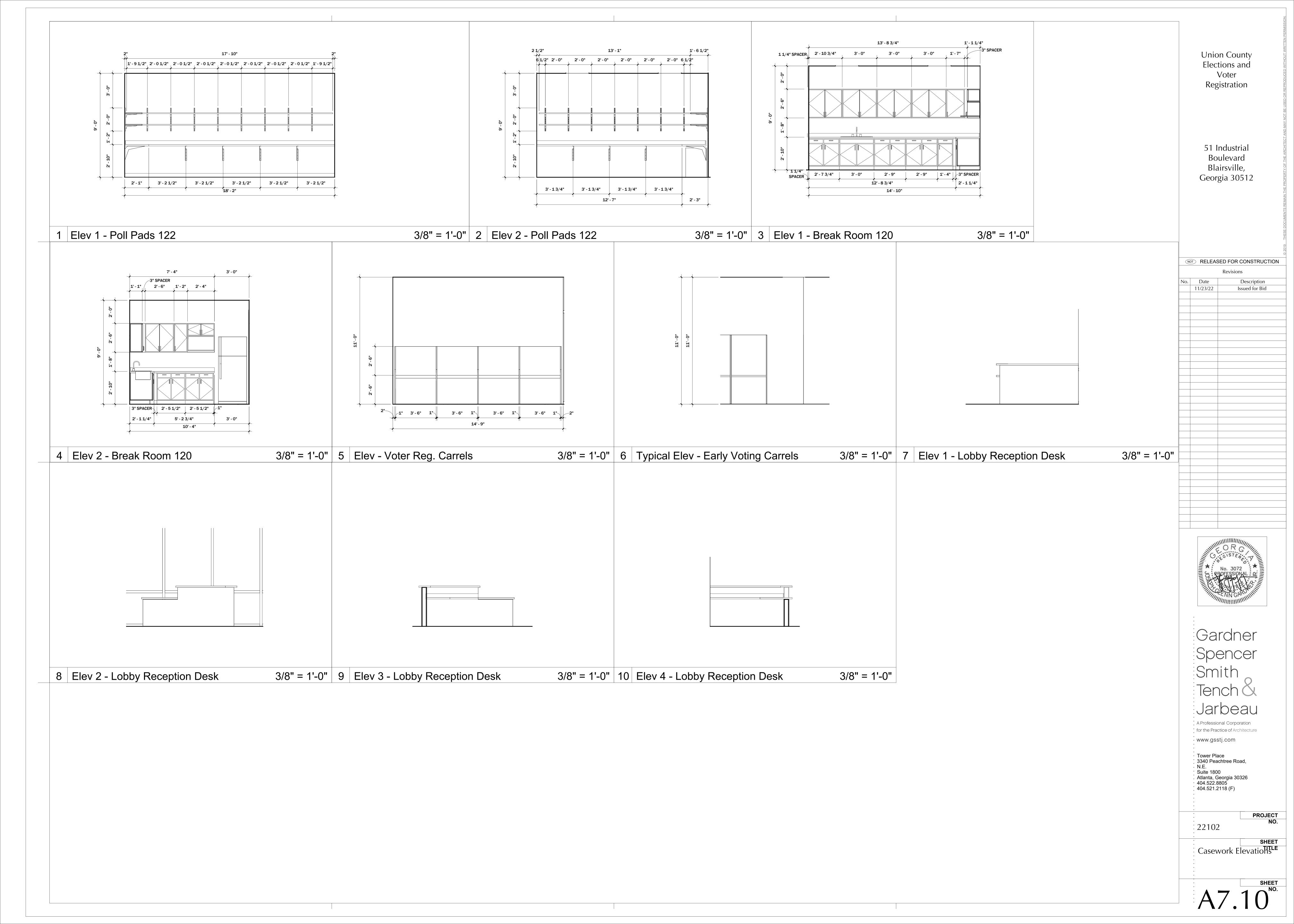
Porch Section

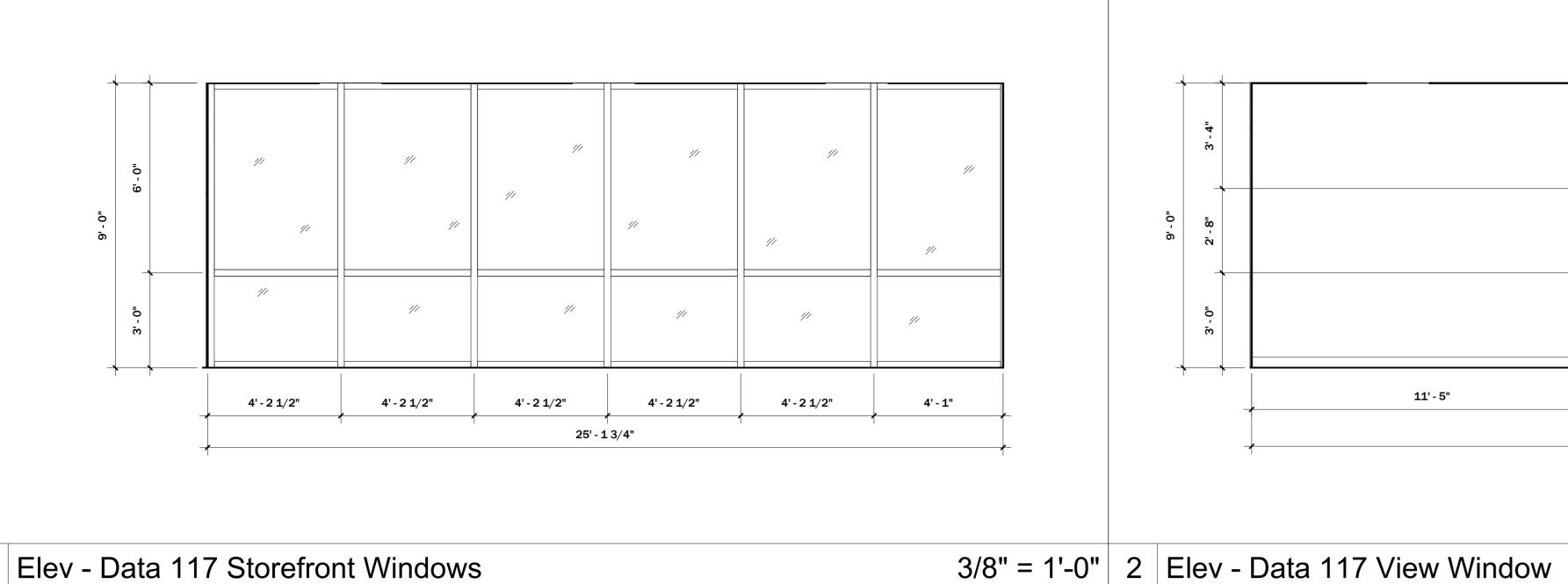
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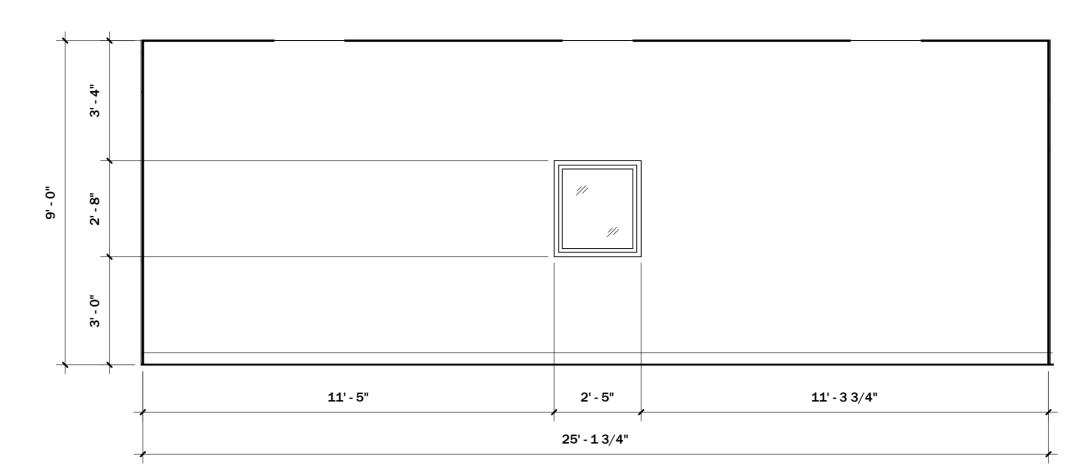
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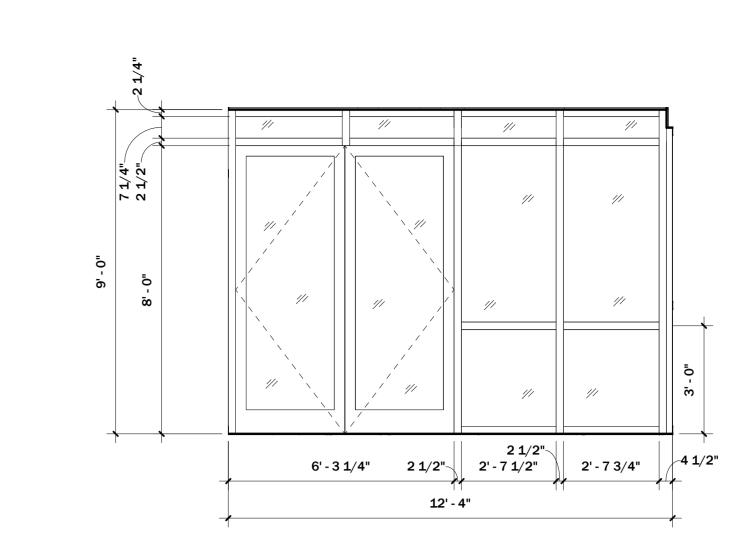












Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville, Georgia 30512

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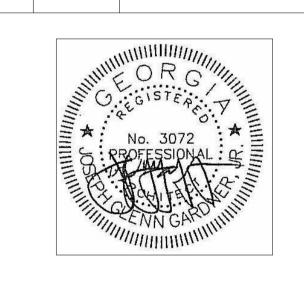
11/23/22

Description Issued for Bid

3/8" = 1'-0" 3 Elev - Vest. 100 Storefront 3/8" = 1'-0"

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3'-0"	//	<i>"</i>			6	3 - 4 1/2

4 Elev - Lobby 102 3/8" = 1'-0"



Gardner
Spencer
Smith
Tench &
Jarbeau

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

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

: : 22102

Interior Window
Elevations

PROJECT NO.

A7.11^N

FOR UNION COUNTY, GA

NOVEMBER 10, 2022

INDEX

DATE NO DESCRIPTION

G1 COVER SHEET

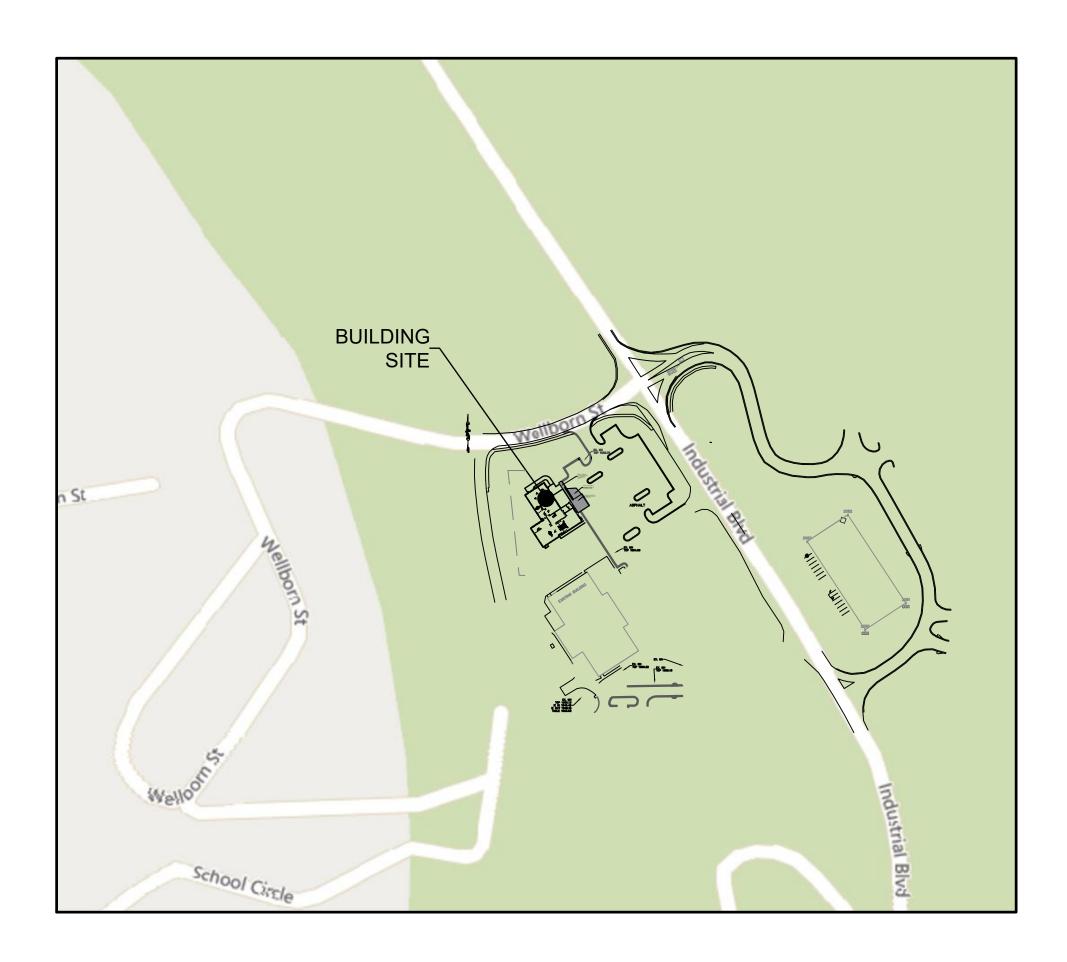
C1 EXISTING SITE CONDITIONS

AND DEMOLITION PLAN

C2 SITE LAYOUT AND UTILITY PLAN

C3 GRADING PLAN

EC1 EROSION CONTROL PLAN
D1 CONSTRUCTION DETAILS



PROJECT MAP1" = 200'

			STAMP	SHEET NO.
			NO. 17626 PROFESSIONAL ONALD W. BAYER 11/17/2022	G1
11/17/2022	1	SUBMITTED TO COUNTY AND ARCHITECT FOR REVIEW		1
DATE	NO.	DESCRIPTION		

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:

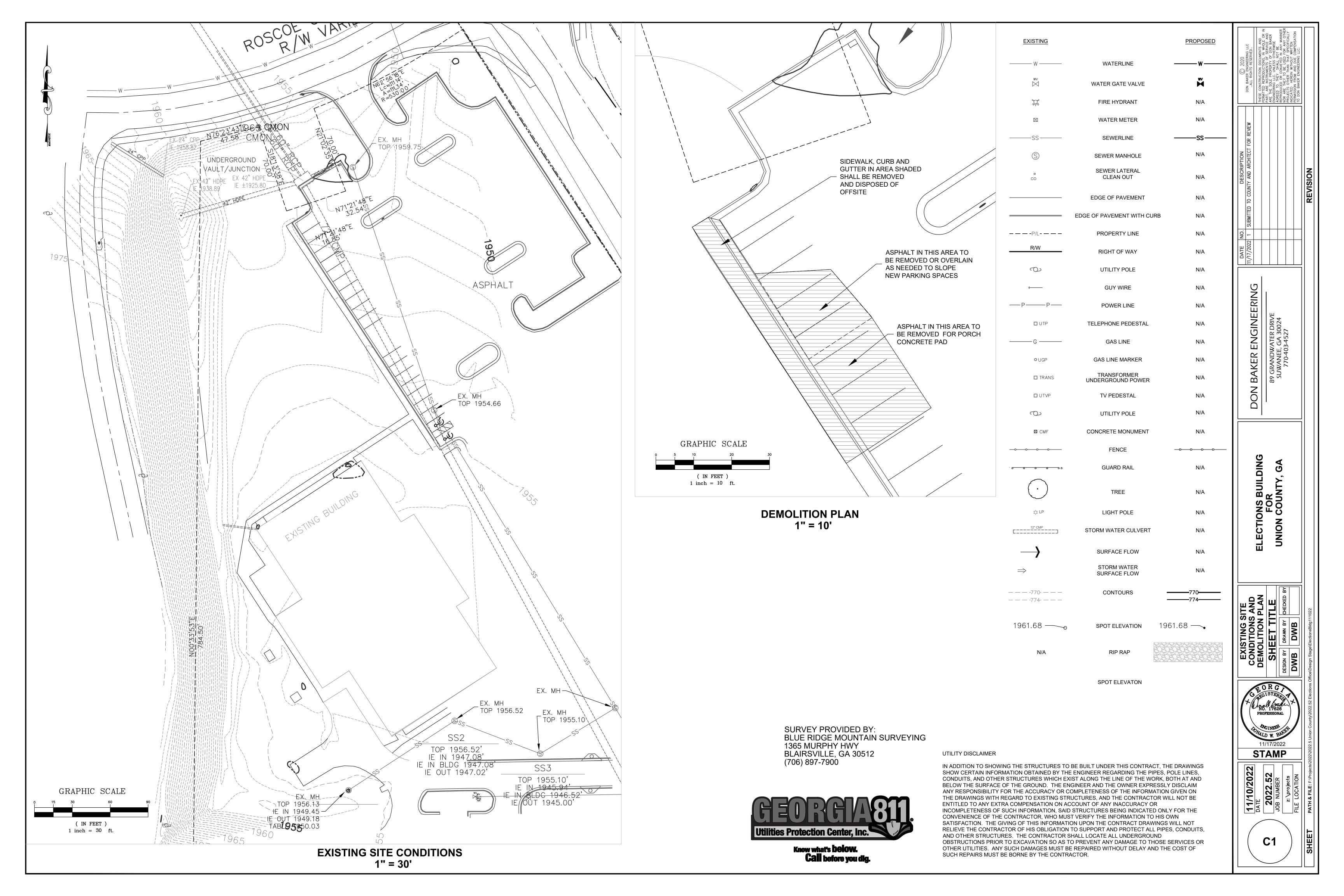
- 1. LOCATION OF LOT LINES, PROPERTY LINES, RIGHT-OF-WAY LINES, AND OTHER LAND DIVISION REFERENCES WERE OBTAINED FROM RECORDED DATA AND LAND USE OBSERVATIONS. THE LAND DIVISIONS WERE NOT FIELD CHECKED. THEREFORE, THEY MUST ONLY BE CONSIDERED TO APPROXIMATELY REPRESENT THE ACTUAL LAND DIVISIONS, PROPERTY 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.
- 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.
- 12. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA.
- 3. CONTOURS FOR THIS PROJECT WERE OBTAINED FROM BLUE RIDGE MOUNTAIN
- 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.

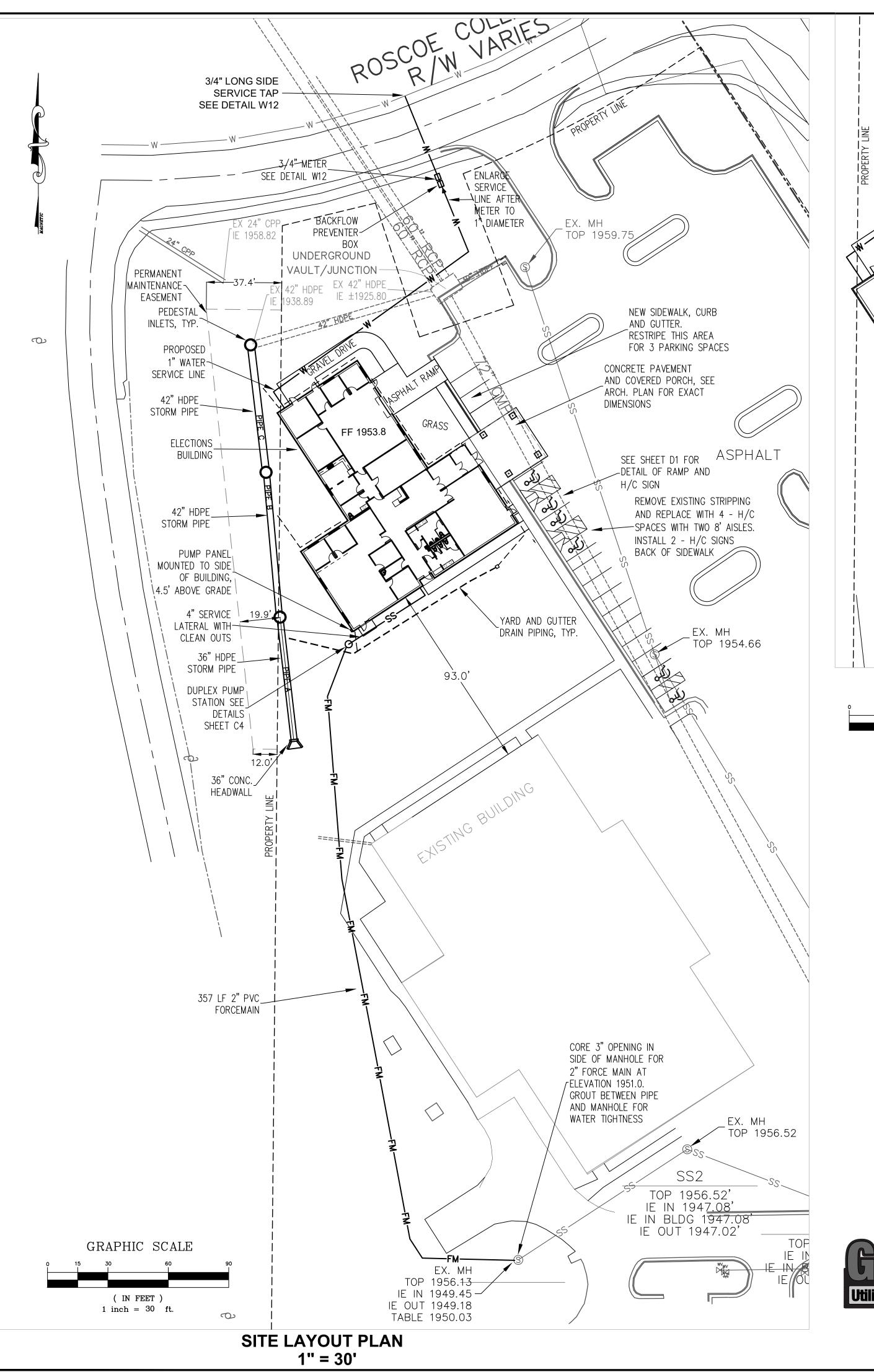
OBSTRUCTIONS ENCOUNTERED:

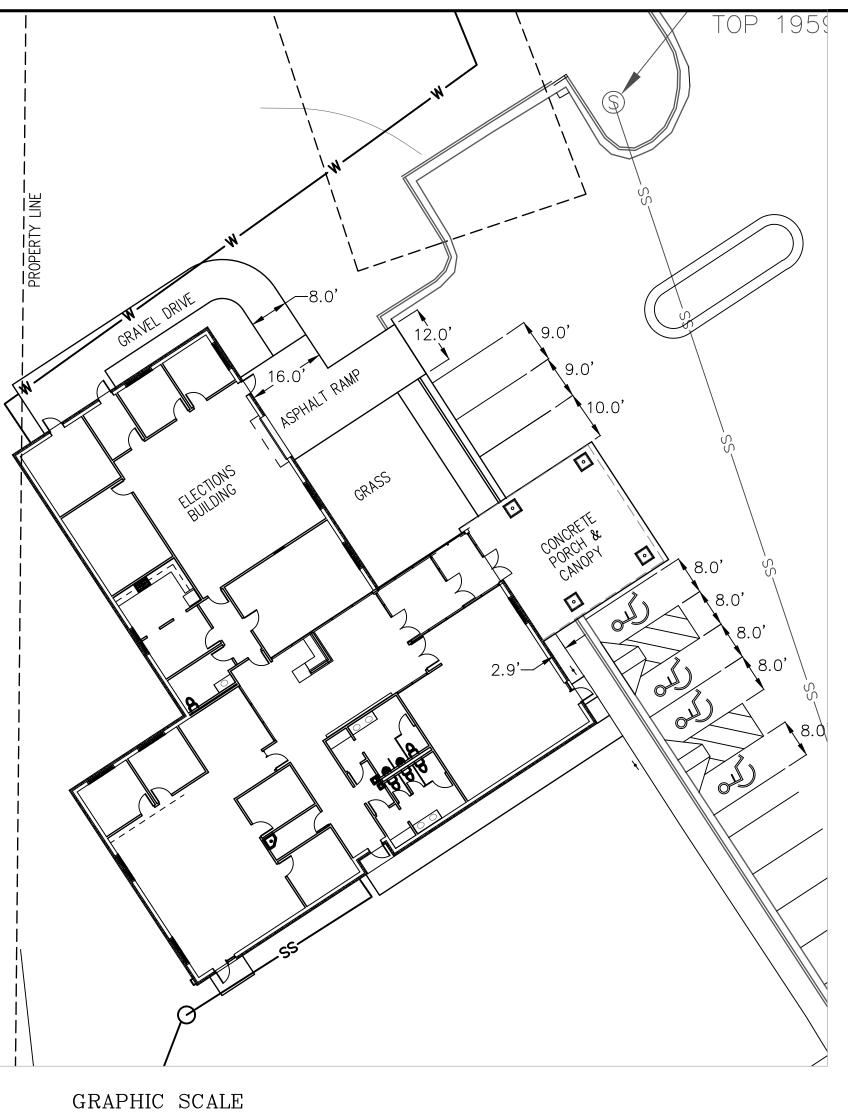
IN ADDITION TO SHOWING THE STRUCTURES TO BE BUILT FOR THIS PROJECT, THE DRAWINGS SHOW CERTAIN INFORMATION OBTAINED BY THE ENGINEER REGARDING THE PIPES, POLE LINES, CONDUITS AND OTHER STRUCTURES WHICH EXIST ALONG THE LINE OF THE WORK, BOTH AT AND BELOW THE SURFACE OF THE GROUND. THE ENGINEER AND THE OWNER 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







DIMENSION PLAN

GENERAL PIPE INSTALLATION:

- 1. WATER/SEWER PIPE, STORM 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 LINE.
- A. PROVIDE PROTECTIVE COVERING FOR ENDS OF PIPE UNTIL CONNECTION IS MADE TO ADJACENT PIPE, IF NECESSARY.
- B. 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 WATER/SEWER 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.
- FOR 6" SERVICE LATERAL INSTALLATION, CLEANOUTS SHALL BE INSTALLED AT ALL BENDS.

STORM PIPE

- 1. STORM PIPE FOR THIS PROJECT SHALL BE N12 HDPE WATERTIGHT SOLID DUAL WALL PIPE
- PIPE SHALL BE INSTALLED IN ACCORDANCE WITH "CORRUGATED PLASTIC PIPE STORM INSTALLATION GUIDE" PUBLISHED BY ADS. SEE SHEET D1 FOR BACKFILL REQUIREMENTS OF HDPE PIPE.

PUMP STATION AND FORCEMAIN

- 1. PUMP STATION SHALL BE LIBERTY DUPLEX STATION SERIES D3600 MODEL D3672LSG203-48-IP-S-SC, 208/230 VOLT THREE PHASE. CONTROL PANEL MODEL IPD-34-511 (FOR 3 PHASE). PUMP SHALL BE LSG WITH TDH 50 GPM @ 27 FT. TOP OF WET WELL SHALL BE 6 INCHES ABOVE GRADE. WETWELL SHALL HAVE STEEL COVER. GUIDE RAILS SHALL BE STAINLESS STEEL. CONTRACTOR TO SUBMIT SHOP DRAWING PRIOR TO ORDERING PUMP STATION. CONTROL PANEL SHALL BE MOUNTED ON SIDE OF BUILDING OR ON UNISTRUT. SEE PUMP STATION DETAILS,
- 2. 2" PVC FORCE MAIN PIPE SHALL BE SDR 21 RATED AT 200 PSI. JOINTS SHALL BE BELL AND RING TYPE CONFORMING TO ASTM D-3139.
- 3. FORCE MAIN PIPING SHALL HAVE CONCRETE BLOCKING AT ALL BENDS.
- 4. MINIMUM COVER OVER FORCE MAIN PIPING SHALL BE 30 INCHES.
- 5. BACKFILL OF FORCE MAIN SHALL BE SUFFICIENT SO THAT A DEPRESSION WILL NOT BE NOTICED AFTER ONE YEAR. CONTRACTOR MAY MOUND TRENCH TO PREVENT EXCESSIVE SETTLING.
- 6. DETECTOR TAPE SHALL BE INSTALLED A MINIMUM OF ONE (1) FOOT OVER PVC FORCE MAIN.

WATER SYSTEM

- 1. CONTACT CITY OF BLAIRSVILLE UTILITY DEPARTMENT FOR SERVICE CONNECTION.
- 2. CONTRACTOR TO ENLARGE 3/4" WATER LINE JUST OUTSIDE OF WATER METER TO 1" DIAMETER. PIPE TO BUILDING SHALL BE 1" DIAMETER SDR 18 PVC (200 PSI) OR SDR 9 PC 200 HDPE AND INSTALLED BY CONTRACTOR.
- DETECTOR TAPE SHALL BE INSTALLED A MINIMUM OF ONE (1) FOOT OVER WATER

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.

GEORGIA811.	
Utilities Protection Center, Inc.	

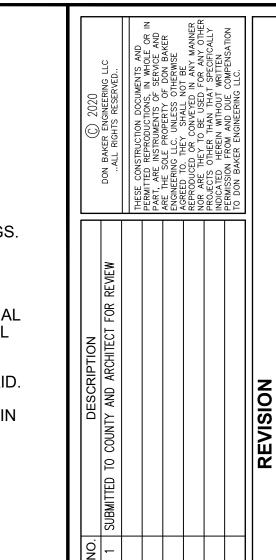
Call before you dig

Know what's below.

(IN FEET)

1 inch = 20 ft.

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



DON BAKER ENGINEERING

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

ELECTIONS BUILDING FOR UNION COUNTY, GA

SITE LAYOUT
PLAN
SHEET TITLE

DESIGN BY
DWB
DWB
DWB

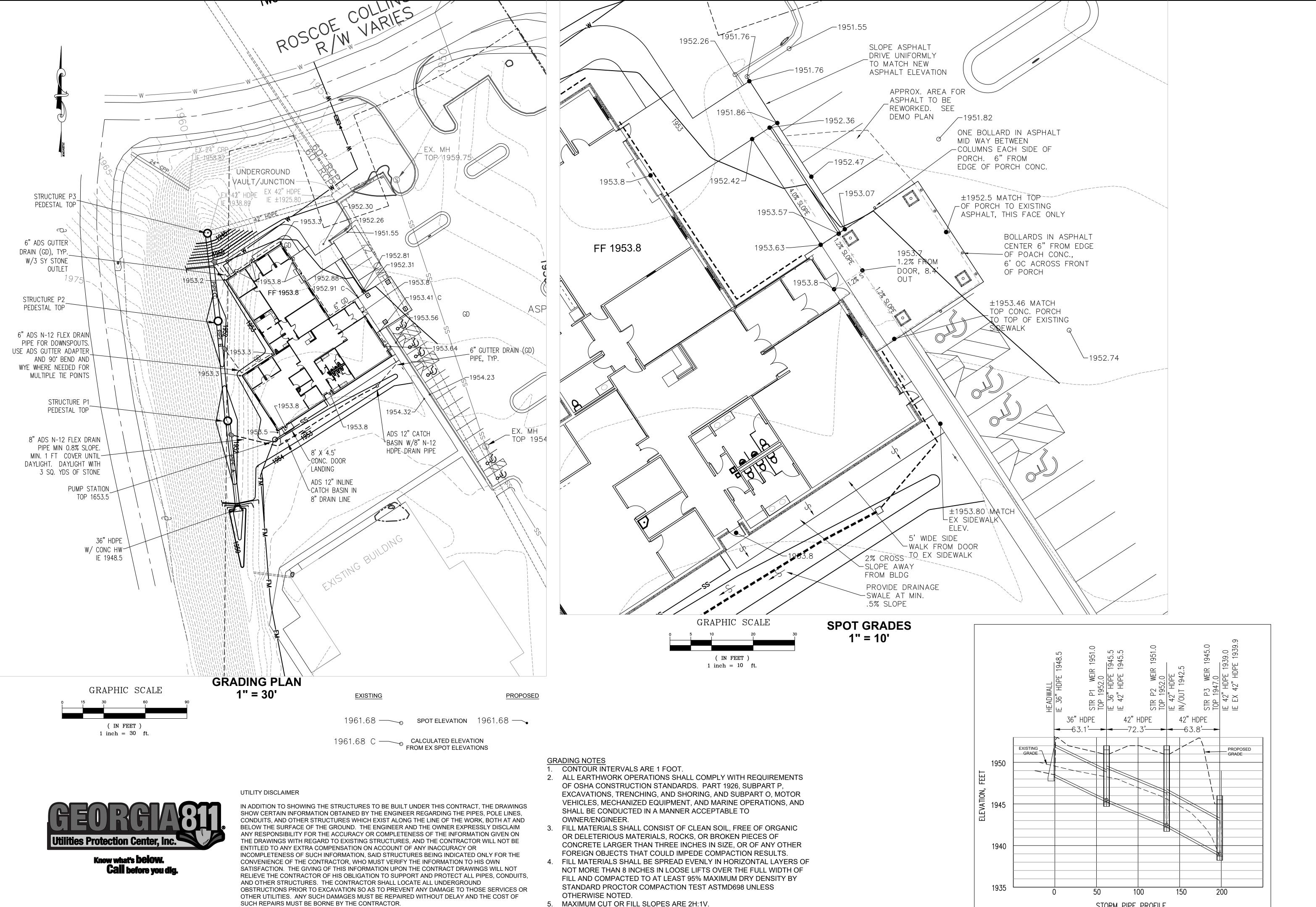
NO. 17626
PROFESSIONAL

NO. 17626
PROFESSIONAL

11/17/2022

11/10/2022 DATE
2022.52
JOB NUMBER
z: \projects
FILE LOCATION

C2



GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS INTO

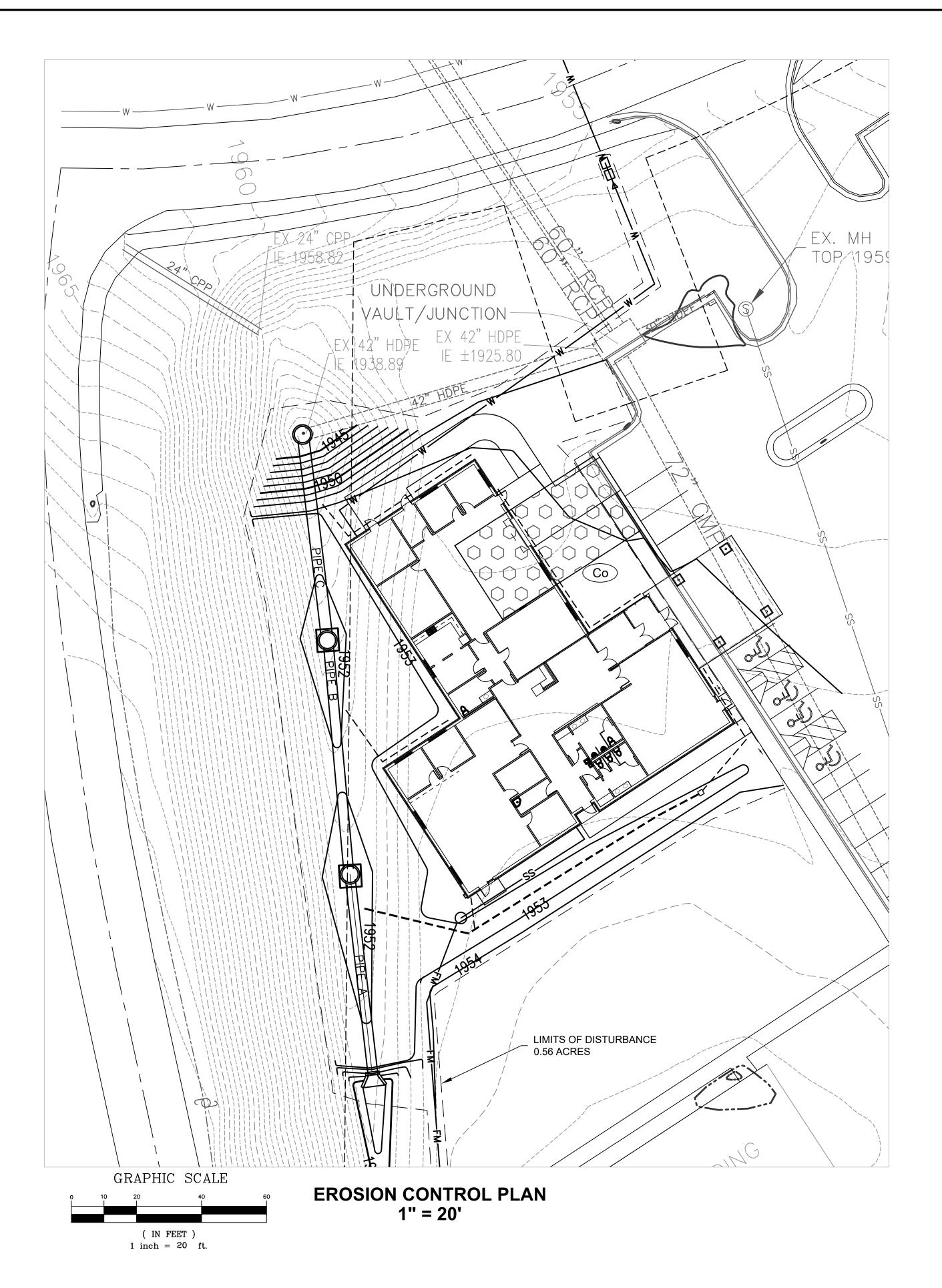
STORM CHANNELS.

...ALL RIGHTS RESERVED
THESE CONSTRUCTION DOCUMEN
PERMITTED REPRODUCTIONS, IN VP ART, ARE INSTRUMENTS OF SEF
ARE THE SOLE PROPERTY OF DIE FORMERING LLC. UNLESS OTHER AGREED TO. THEY SHALL NOT REPRODUCED OR CONVEYED IN A NOR ARE THEY TO BE USED FOR PROJECTS OTHER THAN THAT SIN INDICATED HEREIN WITHOUT WRITINDICATED HEREIN WITHOUT WRITINDICATED HEREIN WITHOUT WRITINDICATED HEREIN WITHOUT WITHOUT ON BAKEN ENGINEERING LLC. ELECTIONS BUILDIN FOR UNION COUNTY, G UNION GRADING DESIGN BY STAMP 11/10/2022
DATE
2022.52
JOB NUMBER
z: \projects
FILE LOCATION

STORM PIPE PROFILE

HORIZ. 1" = 50

VERT. 1" = 5'



PROJECT NOTES

PROJECT DESCRIPTION: THIS PROJECT CONSIST OF CONSTRUCTING A APPROXIMATELY 7550 SF ELECTIONS BUILDING. THE TOTAL DISTURBED AREA IS APPROXIMATELY 0.56 ACRES.

THIS PROJECT IS NOT WITHIN 200 FEET OF STATE WATERS.

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 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.

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

MULCHING

NG DSI

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.

S RATE

RYE GRASS-ANNUAL 40-50#/AC.
BROWNTOP MILLET 30-40#/AC.
RYE 160-170#/AC.

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

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

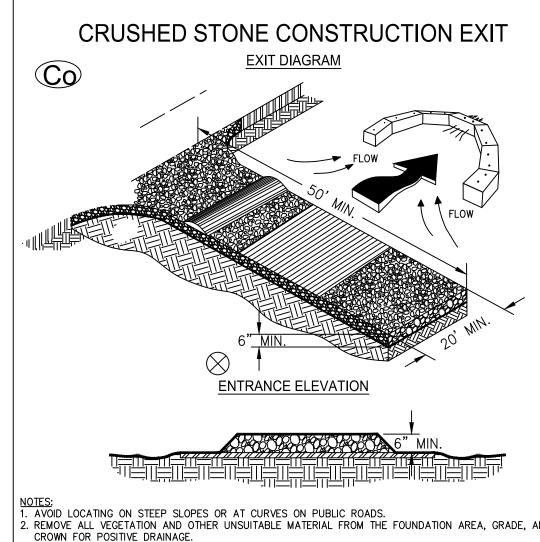
PLANTING DATE

AUGUST THRU MID-APRIL

MID-AUGUST THRU DECEMBER

APRIL THRU MID-JULY

EROSION CONTROL LEGEND
Du DUST CONTROL
ALL DISTURBED AREA
Co CONSTRUCTION EXIT
(Sd2-F) INLET SEDIMENT TRAP - FILTER FABRIC WITH
SUPPORTING FRAME
DISTURBED LIMITS — — — — —



NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.

2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.

3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).

4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".

5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.

6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%..

7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.

8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).

9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.

10.MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC

RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES

USED TO TRAP SEDIMENT.

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION Sd2-F STEEL FRAME AND SILT FENCE INSTALLATION NOTES:

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).

2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE DEPONTED OF THE INNET (MAYNAM OF 2) THE PERIMETER OF THE INLET (MAXIMUM OF 3' THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.

4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL. *FABRIC ENTRENCHED AT - BURIED FABRIC LEAST 12" AND BACKFILLED TOTAL DROP INLET WITH GRATE WITH CRUSHED STONE OR OMPACTED SOIL. - CRUSHED STONE OR COMPACTED SOIL WIRE-BACKING - GATHER EXCESS AT CORNERS - FABRIC WITH WIRE-BACKING SUPPORT

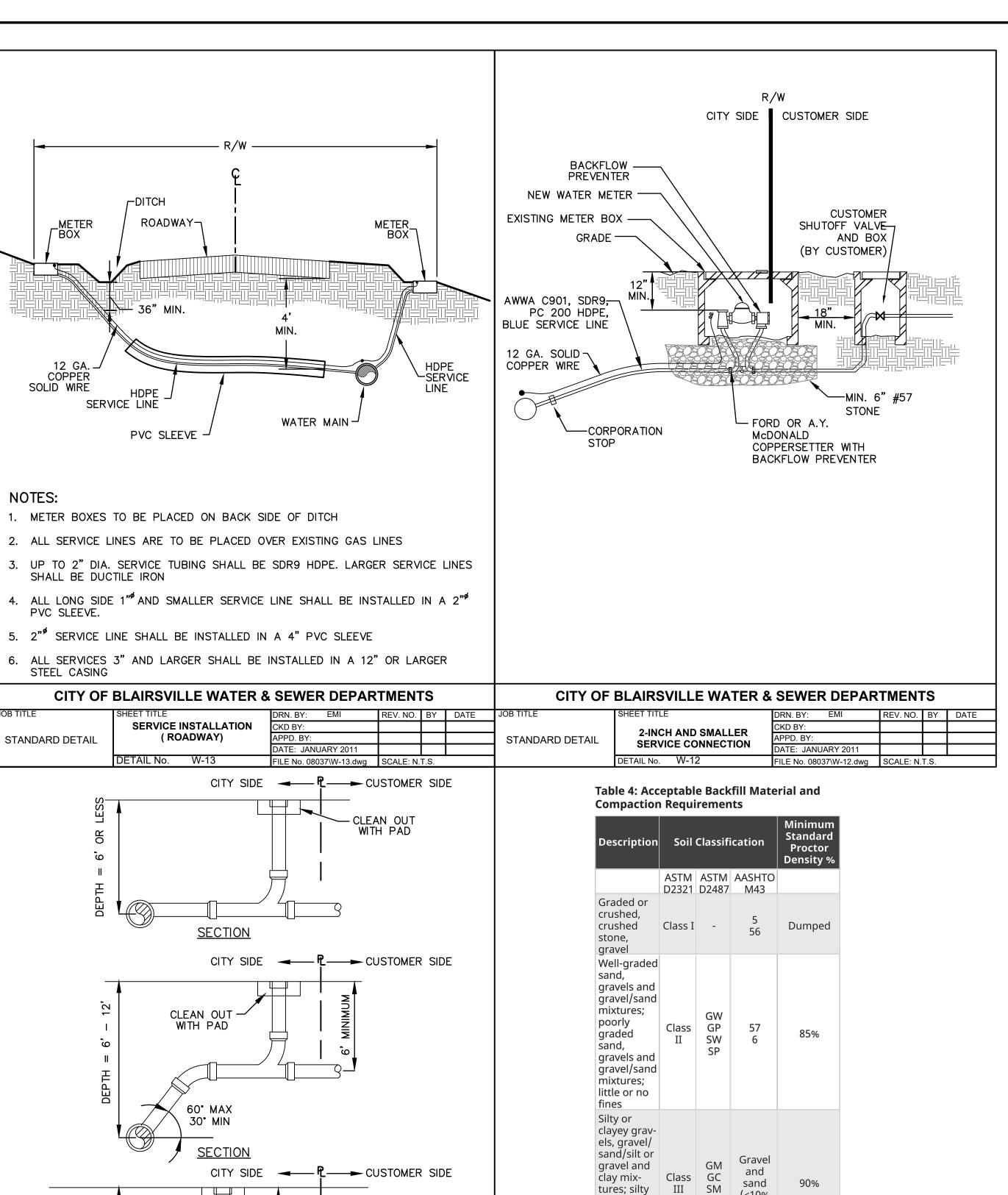


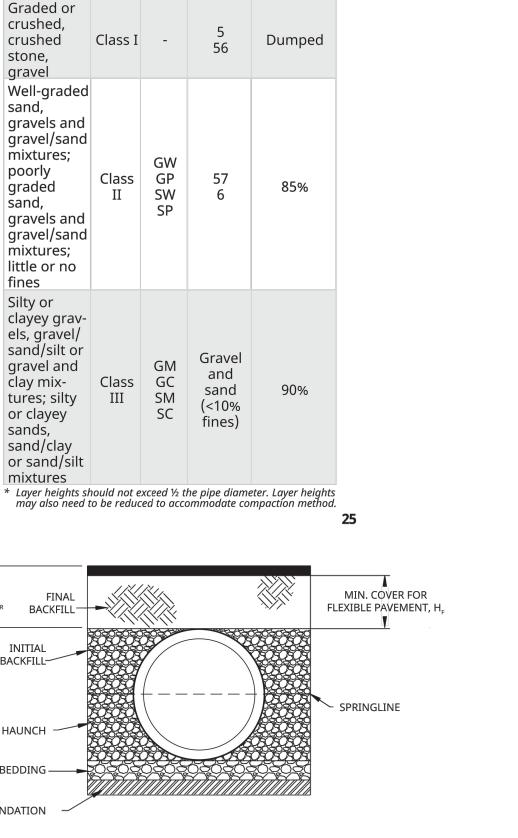
Know what's **below. Call** before you dig.

UTILITY DISCLAIMER

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EC1	11/10/22 DATE 2022.52 JOB NUMBER z: \projects	NO. 17626 PROFESSIONAL NO. 17626 PROFESSIONAL 11/17/2022 STAMP	EROSION CONTROL PLAN SHEET TITLE DESIGN BY DRAWN BY CHECKED BY	ELECTIONS BUILDING FOR UNION COUNTY, GA	DON BAKER ENGINEERING 89 GRANDWATER DRIVE SUWANEE, GA 30024 770-403-4527	DATE NO.	DATE NO. DESCRIPTION 11/17/2022 1 SUBMITTED TO COUNTY AND ARCHITECT FOR REVIEW	DON BAKER ENGINEERING LLCALL RIGHTS RESERVED THESE CONSTRUCTION DOCUMENTS AND PERMITTED REPRODUCTIONS, IN WHOLE AND PART, ARE INSTRUMENTS OF STRWICE AND ARE THE SOLE PROPERTY OF DON BAKER ENGINEERING LLC. UNLESS OTHERWISE AGREED TO. THEY SHALL NOT BE REPRODUCED OR CONVEYED IN ANY MANINER INCLUSION CHARLY THAN THAT SPECIFICALLY INDICATED HEREIN AND THE OF DEPLICEMENT OF THE SHALLY INDICATED HEREIN AND THE CONDENS AND THE OF CONTERS AND THE	
	FILE LOCATION							TO DON BAKER ENGINEERING LLC.	
HEET	PATH & FILE: F:\Projects\2	2022\2022.5 Union County\2022.52 Electio	PATH & FILE: F:\Projects\2022\2022\2022.5 Union County\2022.52 Elections Office\Design Stage\ElectionsBldg111022				REVISION		





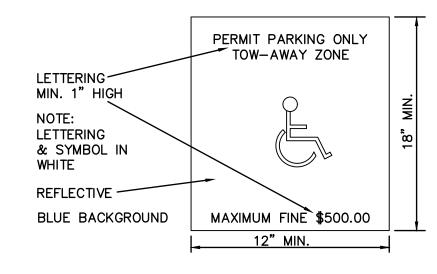
Top View **BUILDING WALL** Duplex Pump Control Panel Attached to Bldg. Power to Panel From Building. Power Cable to Panel 3#4, 1#6 Wires. Grounding Per Code. Ø36'' Terminate Conduit 4" Before Ø 42'' I.D. O.D. Entering Control Panel. Plug Opening With Zip Seal Filler For Watertightness Float Cable PVC Conduit to Wetwell Wall Top of Wet Well 1.5" C With 2 Cables 6" Above Grade Min Side View Power Cable PVC Conduit to Wetwell Wall 4" Inlet hub and seal provided Not attached on 60", 72", 84", 96" and 120" systems 1.5" C - W/ 2 Cables Discharge depth 2 - 1.5" PVC Conduits W/ Two Pump Power Cables In One Conduit and Two Float 72" Cables In Another Conduit Tank Height Alarm float switch Off float switch premounted switch premounted premounted at 31" at 13" LIBERTY DUPLEX PUMP STATION

CONCRETE SLAB W/CAST IRON MANHOLE FRAME &, NEENAH R-6041-A OR EQUAL (SEE OPTIONS) TYPICAL PEDESTAL (8"X8" BRICK & MORTAR, 6"ø CONCRETE CYLINDER) 4 EACH MORTARED IN PRECAST CONCRETE TOP SECTION TO BE USED W/MANHOLE OR GRATE INLET OPENING PRECAST RISER (IF NECESSARY) -MASTIC MATERIAL REQUIRED AT EACH JOINT OR MORTARED JOINT. STANDARD 72" DIAMETER BASE SECTION 6" STONE BASE SECTION VIEW JUNCTION BOX & DROP INLET NOTES: 1. SUBGRADE TO BE COMPACTED TO 95% MAX. DRY DENSITY PER STANDARD PROCTOR. 2. ALL CONCRETE SHALL BE CLASS B. 3. WHEN 60" & 72" BASE SECTIONS ARE REQUIRED, AN ADAPTER SECTION SHALL BE USED IN CONJUNCTION WITH THE STANDARD CONE. 4. CONCRETE TOP COVER THICKNESS=8"-VEHICULAR TRAFFIC AREAS. PRECAST DROP INLET

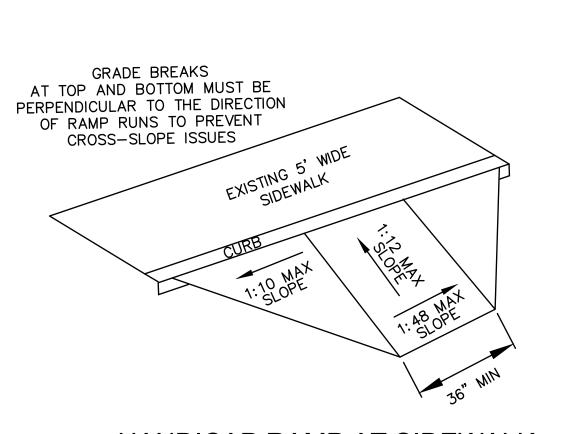
(see Sheet C2 for description)

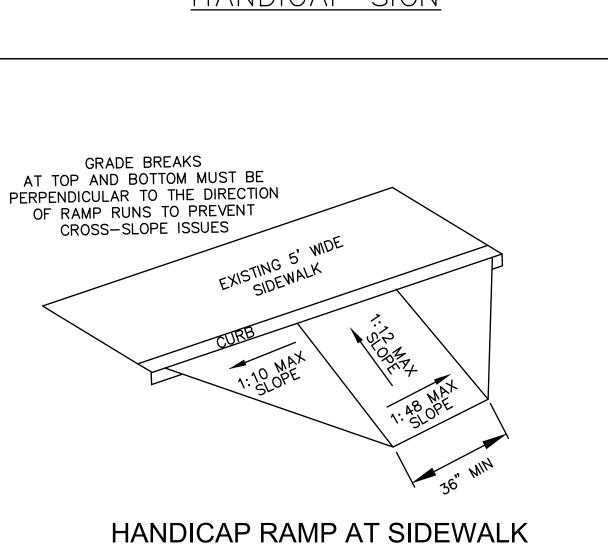
"Handicapped parking place" means any area on public or private property which has been designated as reserved for use of handicapped persons as follows:

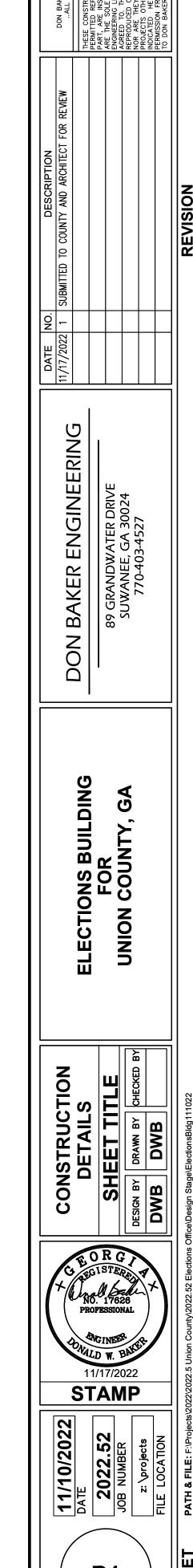
(A) By a blue metal reflective sign which is at least 12 inches in width and 18 inches in length and is erected at such height or in such a manner that it will not be obscured by a vehicle parked in the space and bearing the following words: "Permit Parking Only", "Tow—Away Zone" and "Maximum Fine \$500.00. The warnings required in this subparagraph shall be printed in white letters not less than one inch in height on three separate lines and centered on the sign. The sign shall also bear the international symbol for accessibility centered between the second and third warnings. The sign required by this subparagraph shall be the official authorized sign for handicapped parking place designation in the state.



HANDICAP SIGN







HDPE PIPE BACKFILL MATERIALS

 $H_{R'}$ H_{F} = 12" FOR PIPE DIAMETERS UP TO 48"

= 24" FOR PIPE DIAMETERS 54" AND 60"

or clayey sands, sand/clay

or sand/silt mixtures

BACKFILL-

DESIGN ENGINEER

STRUCTURAL BACKFILL (COMPACTED CLASS I,

BACKFILL-

HAUNCH

4" - 6" BEDDING —

SUITABLE FOUNDATION

MIN. COVER FOR

RIGID PAVEMENT, H_R

REV. NO. BY DATE

NOTE: CLEANOUTS MUST BE FLUSH TO GRADE WITH CAP AND PAD.

CITY OF BLAIRSVILLE WATER & SEWER DEPARTMENTS

DATE: JANUARY 2011

FILE No. 08037/S-15.dwg SCALE: N.T.S.

SERVICE LATERAL

ETAIL No. S-15

STANDARD DETAIL

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE W/ GA. AMMENDMENTS THE FOLLOWING CRITERIA APPLY:

LOADS:	
RISK CATEGORY =	II
ROOF DEAD LOAD = ROOF DEAD LOAD = (AVAILABLE TO RESIST UPLIFT)	20 psf 5 psf
ROOF LIVE LOAD = (DOES NOT INCLUDE MECHANICAL UNITS)	20 psf
GROUND SNOW LOAD, Pg =	10 psf
SEISMIC IMPORTANCE FACTOR, I = MAPPED SPECTRAL ACCELERATIONS: Ss = 0.346, S1 = 0.106	1.0
SITE CLASS (SOIL TYPE): SPECTRAL RESPONSE COEFFICIENTS: SDs = 0.351 , SD1 = 0.168	D (ASSUMED)
SEISMIC DESIGN CATEGORY: SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS	С
RATED FOR SHEAR RESISTANCE RESPONSE MODIFICATION FACTOR, R: OVERSTRENGTH FACTOR, OMEGA: DEFLECTION AMPLIFICATION FACTOR, Cd: SEISMIC RESPONSE COEFFICIENT, Cs: DESIGN BASE SHEAR:	6.5 3.0 4.0 0.054 W × 0.054 F. PROCEDURE

BAS WINI WINI INTE	O IMPORTA	PEED NCE F. RE CAT SSURE	TEGORÝ COEFI	CE) lw = ': FICIENT		105 mp 81 mp 1. ±0.1
	ZONE	A=10	A=20	A=50	A=100	
	ZONE 1	+16.0 -24.9	+16.0 -24.9	+16.0 -22.0	+16.0 -19.8	
ROOF	ZONE 2e	+16.0 -33.3	+16.0 -30.6	+16.0 -27.0	+16.0 -24.2	
1	ZONE 2r	+16.0 -43.4	+16.0 -39.1	+16.0 -33.4	+16.0 -29.2	
SLOPED	ZONE 3	+16.0 -33.3	+16.0 -30.6	+16.0 -27.0	+16.0 -24.2	
\rac{1}{2}	ZONE 2e OVERHANG	-41.7	-40.9	-39.9	-39.1	
	ZONE 3 OVERHANG	-51.8	-46.7	-40.0	-35.0	
WALL	ZONE 4	+19.8 -21.5	+18.9 -20.6	+17.8 -19.4	+16.9 -18.5	
×	ZONE 5	+19.8 -26.6	+18.9 -24.8	+17.8 -22.4	+16.9 -20.6	

(A = EFFECTIVE WIND AREA IN SQ. FT.ADJUSTMENT FACTOR 1.0 SEE FIG. 30.4-1. ASCE 7-16 FOR ZONE LAYOUT AND ADD. INFO.) ENTRY CANOPY: +15.7 / -22.8 PSF

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 IS TO VERIFY ALL DIMENSIONS AND CONDITIONS
- BEFORE EXECUTING ANY WORK. 4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY SUPPORT, SHORING AND BRACING FOR ALL STRUCTURAL COMPONENTS DURING CONSTRUCTION. 5. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY,
- TECHNIQUES, SEQUENCES AND PROCEDURES FOR CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION COMPLIES WITH OSHA REGULATIONS. 6. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING BUT NOT LIMITED TO ALUMINUM STOREFRONT, PRECAST CONCRETE, CURTAIN WALL GLAZING SYSTEMS AND ORNAMENTAL
- LICENSED IN THE PROJECT STATE AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION. 7. 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.

GUARDRAILS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER

FOUNDATION:

1. THE FOUNDATION DESIGN USES MINIMUM ALLOWABLE DESIGN CRITERIA DETERMINED BY 2018 IBC. 2. THE FOUNDATION DESIGN IS BASED ON AN ASSUMED NET ALLOWABLE

SOIL BEARING PRESSURE OF 2,000 PSF FOR SHALLOW FOUNDATIONS ON EITHER PROPERLY COMPACED NATIVE SOILS OR STRUCTURAL FILL. 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

CONCRETE:

5% +/-1.

FOOTINGS AND SLABS.

- 1. CONCRETE FOR ALL STRUCTURAL ELEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 psi, AND SHALL BE NORMAL WEIGHT. MAX W/CM SHALL NOT EXCEED 0.55.
- 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
- 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.

STRUCTURAL GENERAL NOTES:

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

BAR SIZE	CLASS	3,0	000	4,0	000	5,0	000
#6 OR SMALLER	A B	44 57	DIA. DIA.	38 49	DIA. DIA.	34 44	DIA. DIA.
#7 OR LARGER	A B	55 71	DIA. DIA.	47 62	DIA. DIA.	42 55	DIA. DIA.

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.

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, EXCEPT STRUCTURAL TUBING (HSS) SHALL CONFORM TO ASTM A500 GRADE B. 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. IN GENERAL, CONNECTIONS SHALL BE FIELD BOLTED. ALL BOLTS DESIGNATED "SLIP CRITICAL" OR "FULLY TIGHTENED" SHALL BE TIGHTENED TO THE MINIMUM PRETENSION VALUE SHOWN IN TABLE J3.1 OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. IN ADDITION,
- CONNECTIONS DESIGNATED "SLIP CRITICAL" SHALL HAVE PROPERLY PREPARED FAYING SURFACES TO MEET CLASS A SURFACE CONDITION, U.N.O. "SLIP CRITICAL" CONNECTIONS SHALL INCLUDE ALL BOLTS IN MOMENT CONNECTIONS. "FULLY TIGHTENED" CONNECTIONS SHALL INCLUDE ALL BOLTS LOADED IN DIRECT TENSION (SUCH AS HANGERS), BRACED FRAME CONNECTIONS, GIRT CONNECTIONS & MEMBERS THAT ARE PART OF THE MAIN LATERAL RESISTING SYSTEM. DIRECT TENSION INDICATOR (DTI) WASHERS OR TENSION CONTROL BOLTS (TCB'S) SHALL BE USED AT THESE CONDITIONS. ALL OTHER BOLTS SHALL BE, AT MINIMUM, SNUG TIGHT.
- 5. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS STRUCTURAL WELDING CODE AND SHALL BE PERFORMED BY CERTIFIED WELDERS USING E70XX ELECTRODES. 6. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION

4. ANCHOR RODS SHALL CONFORM TO ATSM F1554, GRADE 36, UNO.

SPECIFICATIONS, ALLOWABLE STRESS DESIGN, LATEST EDITION.

POST-INSTALLED ANCHORS:

- 1. UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED
- CONCRETE AND SEISMIC APPLICATIONS. 2. PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR 3. PROPER INSTALLATION OF POST-INSTALLED ANCHORS SHALL BE VERIFIED BY A QUALIFIED TECHNICIAL IN ACCORDANCE WITH THE PROJECT REQUIREMENTS AND

THE ICC-ES REPORT. THE TECHNICIAN SHALL VERIFY THE INITIAL INSTALLATION

- OF EACH TYPE OF ANCHOR AND PERIODICALLY VERIFY INSTALLATIONS THEREAFTER. 3. MECHANICAL ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING: * SIMPSON STRONG-TIE TITEN HD (ICC-ES ESR-2713)
- * POWERS FASTENERS WEDGE BOLT+ (ICC-ES ESR-2526) * HILTI KWIK HUS-EZ/KH-EZ (ICC-ES ESR-3027) 4. ADHESIVE ANCHORS, INCLUDING REBAR, FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ADHESIVE ANCHORS SHALL BE INSTALLED INTO DRY HOLES DRILLED
- USING A CARBIDE DRILL BIT INTO CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE
- * HILTI HY-200 (ICC-ES ESR-3187)
- * SIMPSON STRONG-TIE AT-XP (IAPMO UES ER-263) * DEWALT AC200+ (ICC-ES ESR-4027)

WOOD FRAMING:

- 1. STRUCTURAL WOOD COMPONENTS (BEAMS, JOISTS, RAFTERS, ETC.) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE FIBER STRESSES OF NO. 2 SOUTHERN PINE CONFORMING TO THE LATEST EDITION OF NDS, AS FOLLOWS UNLESS NOTED OTHERWISE: SHEAR Fv = 175 psi. BENDING 2X6 Fb = 1,000 psi. BENDING 2X8 Fb = 925 psi.
- BENDING 2X10 Fb = 800 psi. BENDING 2X12 Fb = 750 psi. 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 USE. 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

WOOD SHEATHING:

- 1. PLYWOOD FLOOR, WALL AND ROOF SHEATHING ARE DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE BUILDING CODE. UNLESS SHOWN OTHERWISE, SPAN RATED PANELS SHALL BE FASTENED TO NOMINAL 2X SOUTHERN PINE FRAMING SPACED UP TO 24" O/C. IN ACCORDANCE WITH THE
- FOLLOWING: PANELS UP TO 1/2" THICK: 8d NAILS AT 6" O/C. EDGE, 12" O/C. ELSEWHERE. PANELS UP TO 5/8" THICK: 10d NAILS AT 6" 0/C. EDGE,
- 12" O/C. ELSEWHERE. PANELS UP TO 3/4" THICK: 12d NAILS AT 6" O/C. EDGE, LSEWHE 12" O/C. ELSEWHERE.
- 2. ROOF SHEATHING SHALL BE 5%" APA RATED PLYWOOD SHEATHING WOOD STRUCTURAL PANELS (NOT LESS THAN 40/20 SPAN RATING), U.N.O. 3. FLOOR SHEATHING SHALL BE 3/4" APA RATED PLYWOOD SHEATHING WOOD STRUCTURAL PANELS (NOT LESS THAN 40/20 SPAN RATING) U.N.O. 4. WALL SHEATHING SHALL BE 1/2" APA RATED PLYWOOD SHEATHING WOOD STRUCTURAL PANELS (NOT LESS THAN 32/16 SPAN RATING), U.N.O.

PRE-ENGINEERED WOOD TRUSSES:

- 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 BÈTWEEN 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
- 3. THE FOLLOWING LOAD DURATION FACTORS SHALL BE USED: DEAD LOAD 0.90 DEAD LOAD + FLOOR LIVE LOAD 1.00
- DEAD LOAD + ROOF LIVE LOAD 1.25 DEAD LOAD + WIND LOAD 1.33 4. WOOD TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED GRAVITY LOADS:
- ROOF TRUSSES: TOP CHORD DEAD LOAD 10 PSF BOTTOM CHORD DEAD LOAD 10 PSF 20 PSF TOP CHORD LIVE LOAD BOTTOM CHORD LIVE LOAD, U.N.O. 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
- 7. ANY REPAIRS OR MODIFICATIONS OF THE PRE-ENGINEERED TRUSSES OR AND CHANGES IN TRUSS LOADING SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURER. 8. TRUSSES SHALL BE TOE-NAILED TO DOUBLE TOP PLATE WITH A MINIMUM OF (3) 8d NAILS.

BY THE GENERAL CONTRACTOR.

SPECIAL INSPECTIONS NOTES:

- 1. DURING CONSTRUCTION, SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705 OF THE 2018 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. SPECIAL INSPECTOR SHALL PREPARE THE REQUIRED QUALITY ASSURANCE PLANS & SUBMIT PLAN TO BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER FOR APPROVAL
- PRIOR TO CONSTRUCTION. 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
- 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 2018 IBC, INCLUDING, BUT NOT BE LIMITED TO THE SECTIONS LISTED ON THIS DRAWING. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE NOT REQUIRED PER IBC 1705.11.

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED PER IBC 1705.12.

ABBREVIATIONS

		ADD	KEVIAII	ON3
	AB	– ANCHOR BOLT	INFO	— INFORMATION
	ALT	- ALTERNATE	INT	- INTERIOR
	APPROX	- APPROXIMATELY	JT	- JOINT
	ARCH	- ARCHITECT	KJ	- CONSTRUCTION JOINT
	ARCHL	ARCHITECTURAL		
	B/	BOTTOM OF	L LG	ANGLELONG
	BGPE	 BOB GOODMAN, PE 	LLH	LONGLONG LEG HORIZONTAL
	BLDG	- BUILDING	LLN	- LONG LEG HORIZONTAL - LONG LEG VERTICAL
	ВМ	- BEAM	LLV	- LONG LEG VERTICAL - LOW POINT
	BOS	 BOTTOM OF STEEL 	LW	- LONG WAY
	BOTT	- BOTTOM	MFR	- MANUFACTURER
	BRG	— BEARING	MAS	- MASONRY
	c/c	 CENTER TO CENTER 	MO	- MASONRY OPENING
	СН	- CHANNEL	MATL	- MATERIAL
	CIP	- CAST IN PLACE	MAX	- MAXIMUM
	CJ	- CONTRACTION JOINT	MEP	- MECHANICAL/ELECTRICAL/PLUMBING
	CL	- CENTERLINE	MIN	- MINIMUM
	CLR	- CLEAR	MISC	- MISCELLANEOUS
	CMU	- CONCRETE MASONRY UNIT	NS	- NEAR SIDE
	COL	- COLUMN	NIC	- NOT IN CONTRACT
	CONC	- CONCRETE	NTS	- NOT TO SCALE
	CONFIG	- CONFIGURATION	0/C	- ON CENTER
	CONT	- CONTINUOUS	OH	- OPPOSITE HAND
	CONTR	- CONTRACTOR	OPNG	- OPENING
	CTR	- CENTER	PART	PARTITION
	DBL	– DOUBLE	PL	- PLATE
	DTL	- DETAIL	plf	 POUNDS PER LINEAR FOOT
	DIA	- DIAMETER	psf	 POUNDS PER SQUARE FOOT
	DIM	- DIMENSION	, psi	 POUNDS PER SQUARE INCH
	DN DWG	DOWNDRAWING	PT	 POST TENSIONED/PRESSURE TREATE
	EA	- EACH	REINF	- REINFORCING/REINFORCEMENT
	EE	– EACH – EACH END	REM	- REMAINDER
	EF	- EACH FACE	REQD	REQUIRED
	EJ	- EXPANSION JOINT	REV	REVISED/REVISION
	EL	- ELEVATION	RO	 ROUGH OPENING
	ELEV	- ELEVATOR	SCHED	- SCHEDULE
	EOD	- EDGE OF DECK	SECT	- SECTION
	EOS	- EDGE OF SLAB	SIM	- SIMILAR
	EQ	- EQUAL	SQ	- SQUARE
	EW	- EACH WAY	STD	- STANDARD
	EXIST	- EXISTING	SW	SHEARWALL/SHORT WAY
	EXP	- EXPANSION	STL	- STEEL
	FIN	- FINISH	STRUCT	- STRUCTURAL
	FLR	– FLOOR	TG	- TRUSS GIRDER
	FND	- FOUNDATION	TO	— THRU OUT
	FOM	- FACE OF MASONRY	T/	- TOP OF
	FS	- FAR SIDE	TOC	- TOP OF CONCRETE
	FT	- FOOT	T	- TOP
	FTG	- FOOTING	TEMP TOS	TEMPERATURETOP OF STEEL
	GA	– GAGE	TRC	- TOP OF STEEL - TRC WORLDWIDE ENGINEERING, INC.
	GALV	- GALVANIZED	TYP	- TRC WORLDWIDE ENGINEERING, INC. - TYPICAL
	GC	- GENERAL CONTRACTOR	UNO	- UNLESS NOTED OTHERWISE
	HC	- HOLLOW CORE	VERT	- VERTICAL
	HG	- HIP GIRDER	VIF	- VERIFY IN FIELD
	HORIZ	– HORIZONTAL	W/	- WITH
	HP	- HIGH POINT	WD	- WOOD
	IJ	- ISOLATION JOINT	WWF	- WELDED WIRE FABRIC
ı	.5	.002011 001111		

IJ – ISOLATION JOINT	WWF	- WELDED WIRE	FABRIC
L	E G E	E N D	
ITEM SYME	BOL I	ITEM	SYMBOL
CONCRETE EARTH CONCRETE BLOCK (CMU) BRICK		TOP OF FOOTING ELEVATI SPOT ELEVATION STEP IN FTG OR GRADE E CENTERLINE BEAM SPLIC NUMBER (PRECEDING)	⊕ +0'-0" ⊕ 8"
SECTION INDICATOR DETAIL INDICATOR	S-5	PLUS OR TENSION MINUS OR COMPRESSION POUNDS (FOLLOWING)	+
S6.0		STEP IN STRUCTURE OR DEPRESSED SLAB	0R (4)
FOOTING TYPE TOP OF FOOTING ELEVATION	F4.5 -2'-0"	TOP OF STEEL ELEVATION OR JOIST BEARING (JBE)	T/STL EL. +20'-8' OR (+20'-0")
COLUMN TYPE <u>C3</u>	E	BOTTOM OF DECK ELEVA	TION B/DECK EL. +20'-8"

MATERIAL / ACTIVITY	SERVICE	Y/N	CABLE TO THIS PROJECT
1705.3 CONCRETE CONSTRUCTION			
INSPECTION AND PLACEMENT VERIFICATION OF	FIELD INSPECTION	Y	PERIODIC
REINFORCING STEEL INSPECTION OF ANCHORS CAST IN CONCRETE.	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			PERIODIC OR AS REQUIRED BY THE
APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE	FIELD INSPECTION	Y	RESEARCH REPORT ISSUED BY AN APPROVED SOURCE
ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD-INCLINED ORIENTATION THAT RESIST SUSTAINED TENSION LOADS.		Y	CONTINUOUS
2. MECHANICAL AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED IN NOTE 1.		Υ	PERIODIC
VERIFY USE OF APPROVED DESIGN MIX	FIELD INSPECTION	Υ	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.	FIELD INSPECTION	Y	CONTINUOUS
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	FIELD INSPECTION	Y	CONTINUOUS
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	FIELD INSPECTION	Y	PERIODIC
ERECTION OF PRECAST CONCRETE MEMBERS		N	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	Υ	PERIODIC
CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Υ	PERIODIC
1705.6 SOILS		1	I
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING	FIELD INSPECTION	Y	PERIODIC
CAPACITY. 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	Υ	PERIODIC
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	FIELD INSPECTION	Y	CONTINUOUS
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	Y	PERIODIC
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 STRUCTURAL STEEL WELDING:	SHOP* AND FIELD INSPECTION	Y	PERIODIC
1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N5.4-1	SHOP* AND FIELD INSPECTION	Y	OBSERVE OR PERFOR
2. INSPECTION TASKS DURING TO WELDING	SHOP* AND FIELD INSPECTION	Y	OBSERVE
PER AISC 360 TABLE N5.4-2 3. INSPECTION TASKS AFTER TO WELDING PER	SHOP* AND FIELD INSPECTION	Y	OBSERVE OR PERFOR
AISC 360 TABLE N5.4-3 4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS	SHOP AND FIELD INSPECTION	N	AS NOTED
A. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	SHOP OR FIELD ULTRASONIC TESTING - 100%	N	PERIODIC
B. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP OR FIELD ULTRASONIC TESTING - 10% OF WELDS MINIMUM	N	PERIODIC
C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1	SHOP OR FIELD RADIOGRAPHIC OR	N	PERIODIC
D. FABRICATOR'S NDT REPORTS WHEN	ULTRASONIC TESTING VERIFY REPORTS	N	EACH SUBMITTAL
FABRICATOR PERFORMS NDT STRUCTURAL STEEL BOLTING:	SHOP AND FIELD INSPECTION	N	_, CIT GODIVIT TAL
1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)		N	OBSERVE OR PERFOR
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		N	PERIODIC
2) DIRECT TENSION INDICATOR		N	PERIODIC
3) TWIST-OFF TYPE TENSION CONTROL BOLT 4) TURN-OF-NUT WITHOUT MATCHING		N	PERIODIC
MARKINGS		N	CONTINUOUS
5) CALIBRATED WRENCH B. SNUG TIGHT JOINTS		N	CONTINUOUS 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	N	PERIODIC
EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	Y	PERIODIC
VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH	FIELD INSPECTION	Y	PERIODIC

SCHEDULE OF SPECIAL INSPECTIONS

THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE 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 IBC SECTION 1704.2.5.1 AND LISTED IN ACTIVITY 1709.2. OBSERVE: OBSERVE ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS, PERFORM: THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT

> 311 14th STREET ATLANTA, GA 30318

Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville Georgia 30512

RELEASED FOR CONSTRUCTION Revisions No. Date Description

. A Professional Corporation for the Practice of Architecture

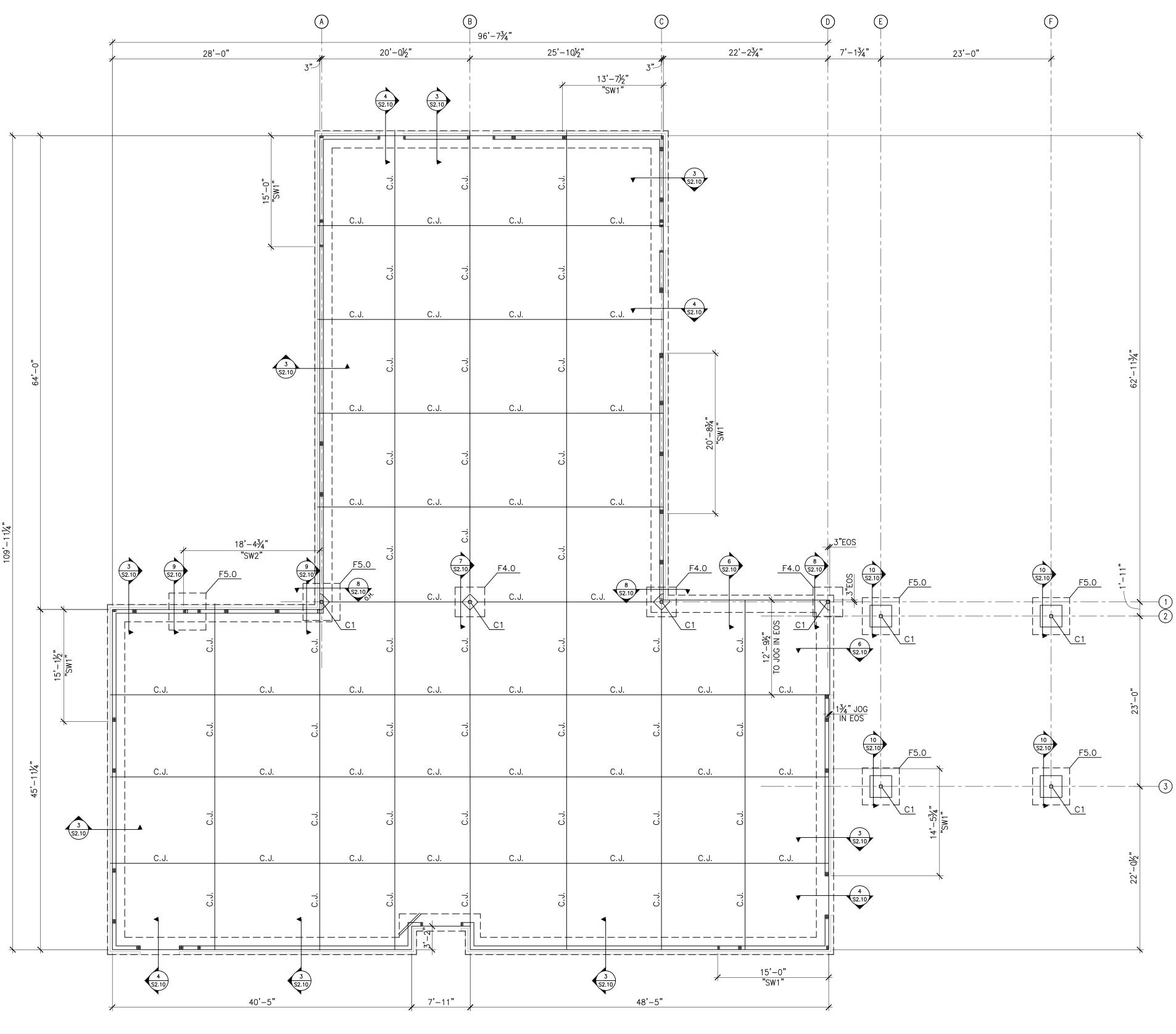
www.gsstj.com Tower Place 3340 Peachtree Road, N.E. Atlanta, Georgia 30326

404.521.2118 (F)

404.522.8805

22102

SHEET TITLE Structural Notes & Special Inspections



1 FOUNDATION PLAN
S1.10 SCALE: 1/8"=1'-0"

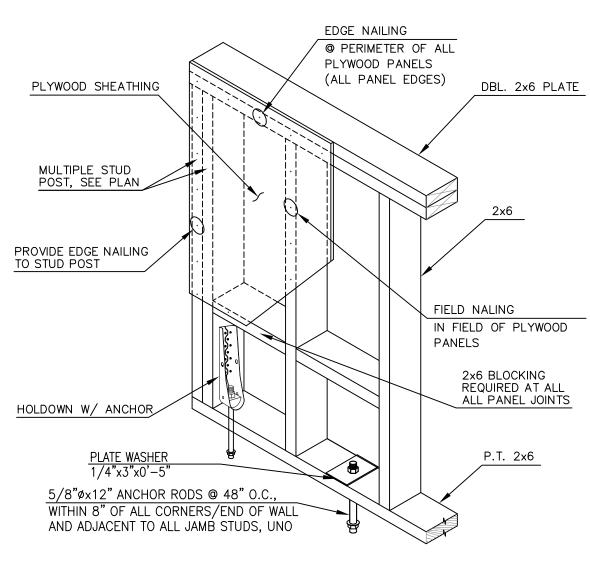
FOUNDATION PLAN NOTES:

- 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. TOP OF CONCRETE SLAB ELEVATION = +0'-0". ALL OTHER DIMENSIONS ARE MEASURED FROM THIS DATUM.
- 3. "SW1" INDICATES WOOD FRAMED SHEARWALL, SEE 2/S1.10.
- 4. SLAB ON GRADE SHALL BE 4" NORMAL WEIGHT CONCRETE, REINFORCED WITH 6x6 W1.4xW1.4 W.W.F. LOCATED 1½" BELOW THE TOP OF SLAB, UNO.
- 5. C.J. INDICATES CONTROL JOINT, SEE 1/S2.10
- 6. TOP OF FOOTING ELEVATION = -1'-4" U.N.O.
- 7. F5.0 INDICATES FOOTING TYPE. SEE 1/S2.10 FOR FOOTING SCHEDULE.
- 8. C1 INDICATES COLUMN TYPE. SEE 2/S3.20 FOR COLUMN SCHEDULE.
- 9. SEE ARCHITECTURAL DRAWINGS FOR ANY SLOPES, DEPRESSIONS, TRENCHES, ECT. IN SLAB ON GRADE.
- 10. ALL DIMENSIONS SHOWN ON THIS PLAN ARE TO EDGE OF SLAB U.N.O.
- 11. ——— INDICATES (2) #4 x 4'-0" AT SLAB MID-DEPTH, 3" APART. PROVIDE AT ALL RE-ENTRANT CORNERS AND INTERSECTIONS, AT ALL DISCONTINUOUS CONTROL JOINTS IN SLAB-ON-GRADE AND AS SHOWN ON PLAN.

	SHEARW	'ALL /	WALL	SHEATHING	SCHEDULE
MARK	SHEATHING	EDGE NAILING	FIELD NAILING	HOLDOWN (EA. END)	REMARKS
SW1	15/32" APA RATED PLYWOOD SHEATHING	10d@6"O.C.	10d@12"O.C.	HDU4-SDS2.5 5/8"ø ANCHOR ROD 12" EMBED.	PLYWOOD ON EXTERIOR FACE OF STUDS
SW2	15/32" APA RATED PLYWOOD SHEATHING	10d@4"O.C.	10d@12"O.C.	HDU11-SDS2.5 1"ø ANCHOR ROD 24" EMBED.	PLYWOOD ON EXTERIOR FACE OF STUDS
***	15/32" APA RATED PLYWOOD SHEATHING	10d@6"O.C.	10d@12"O.C.	NA	REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS

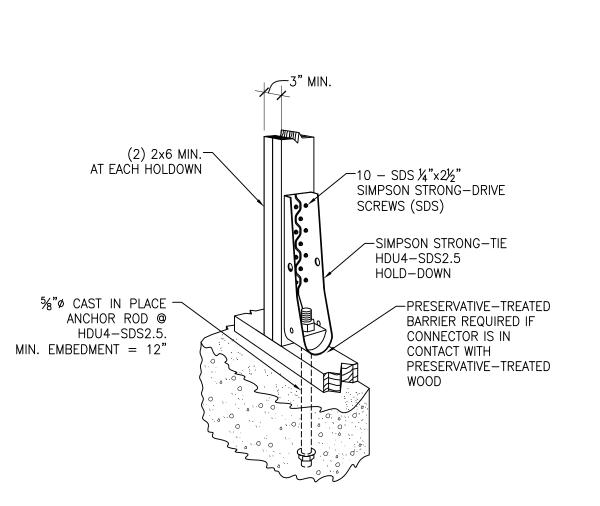
NOTES:
1. SEE SCHEMATIC WALL ELEVATION 3/S1.10 FOR ADDITIONAL INFORMATION.
2. SEE HOLDOWN DETAILS FOR ADDITIONAL INFORMATION ON THIS SHEET.

SHEARWALL / WALL SHEATHING SCHEDULE
S1.10 NOT TO SCALE



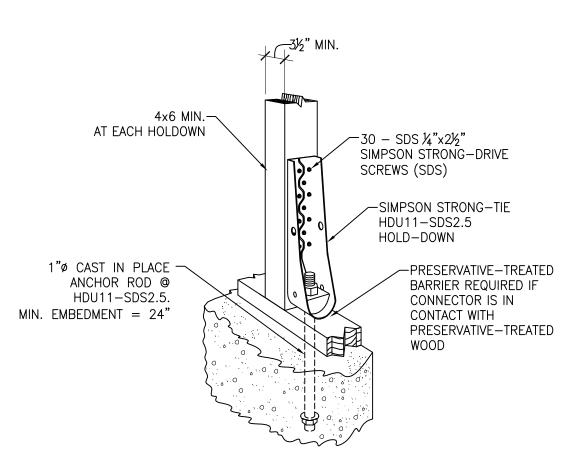
NOTE:
1. SEE SHEARWALL / WALL SHEATHING SCHEDULE 1/S1.10 FOR ADDITIONAL INFORMATION

3 SCHEMATIC EXTERIOR WALL ELEVATION S1.10 NOT TO SCALE



NOTES:
1. SEE FOUNDATION PLAN 1/S1.10 FOR HOLDOWN LOCATIONS.
2. SEE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

HDU4 HOLDOWN W/
ANCHOR ROD DETAIL
S1.10 N.T.S.



NOTES:

1. SEE FOUNDATION PLAN 1/S1.10 FOR HOLDOWN LOCATIONS.

2. SEE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

HDU11 HOLDOWN W/

5 ANCHOR ROD DETAIL

\$1.10 N.T.S.



Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville, Georgia 30512

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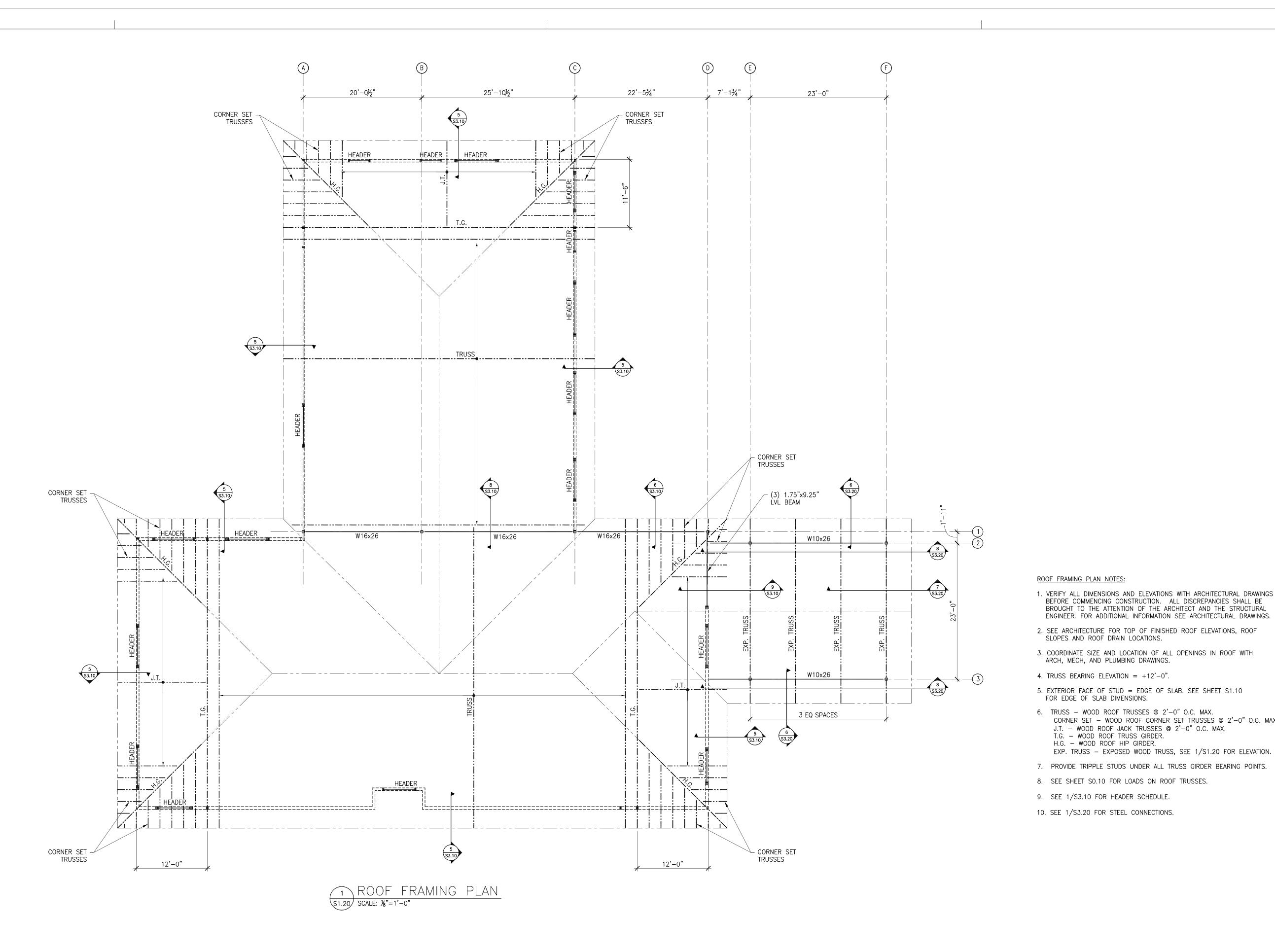
PROJECT NO.

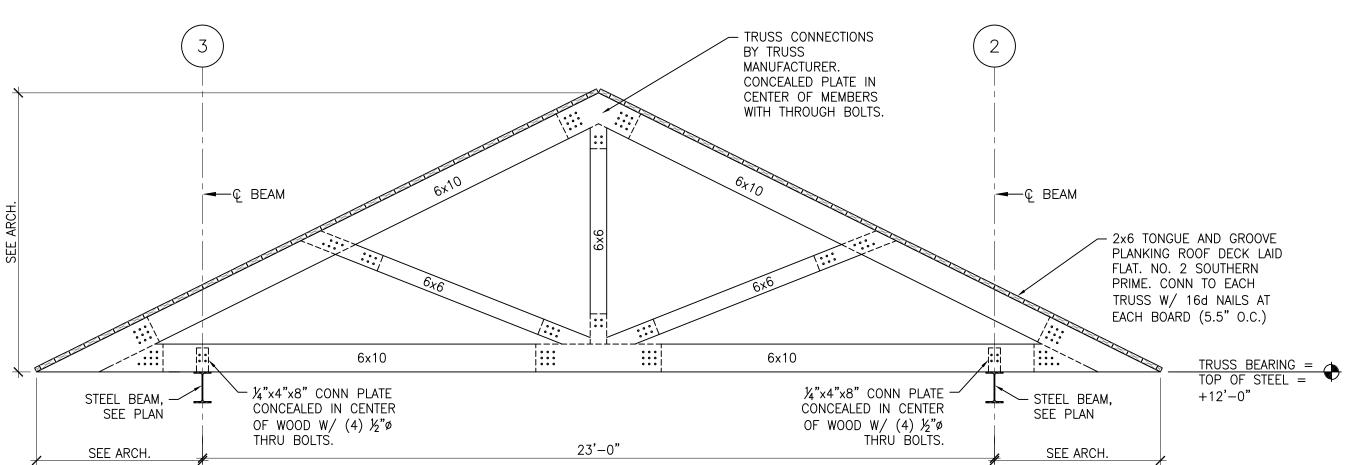
22102

Foundation Plan

SHEET NO.

SHEET TITLE





EXP. TRUSS

1. EXP. TRUSS IS AN EXPOSED ENGINEERED HEAVY TIMBER TRUSS. 2. EXPOSED ENGINEERED HEAVY TIMBER TRUSSES, ALL CONNECTION PLATES AND CONNECTIONS OF TRUSSES TO STEEL BEAM SUPPORTS OR WOOD LOAD BEARING WALLS

5. SEE PLAN FOR LAYOUT AND STRUCTURAL NOTES FOR TRUSS DESIGN LOADS.

- SHALL BE DESIGNED BY TRUSS MANUFACTURER. SEE STRUCTURAL NOTES ON SHEET SO.10 FOR ADDITIONAL INFORMATION. 3. WOOD MEMBERS FOR HEARY TIMBER TRUSSES SHALL BE PRESSURE TREATED NO. 2 SOUTHERN PINE OR APPROVED ALTERNATE. SEE ELEVATIONS FOR MINIMUM
- 4. ALL CONNECTIONS SHALL BE CONCEALED PLATED CONNECTIONS CUT INTO THE CENTER OF THE MEMBER WITH THROUGH BOLTS. BOLTS, NUTS, WASHERS AND PLATES SHALL BE STAINLESS STEEL.
- 2 ENGINEERED HEAVY TIMBER TRUSS ELEVATIONS
 S1.20 SCALE: 3/8"=1'-0"

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BEFORE COMMENCING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER. FOR ADDITIONAL INFORMATION SEE ARCHITECTURAL DRAWINGS.

CORNER SET - WOOD ROOF CORNER SET TRUSSES @ 2'-0" O.C. MAX.

EXP. TRUSS - EXPOSED WOOD TRUSS, SEE 1/S1.20 FOR ELEVATION.

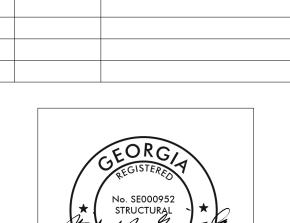
J.T. - WOOD ROOF JACK TRUSSES @ 2'-0" O.C. MAX.

SLOPES AND ROOF DRAIN LOCATIONS.

ARCH, MECH, AND PLUMBING DRAWINGS.

T.G. - WOOD ROOF TRUSS GIRDER. H.G. - WOOD ROOF HIP GIRDER.

FOR EDGE OF SLAB DIMENSIONS.



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22102

SHEET TITLE Roof Framing Plan

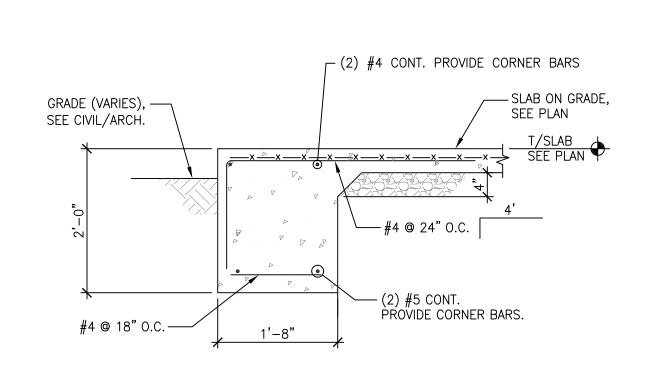
SHEET NO.

PROJECT NO.

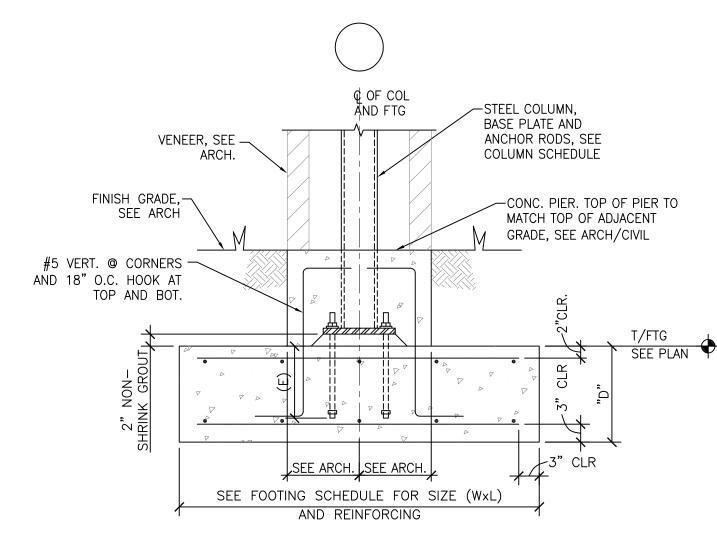
311 14th STREET ATLANTA, GA 30318

	FOOTING SCHEDULE							
MARK	NOTES							
F4.0	4'-0"x4'-0"x1'-2"	4 #5	_	-				
F5.0	5'-0"x5'-0"x1'-6"	5 #6	_	_				

1 FOOTING SCHEDULE
S2.10 NOT TO SCALE

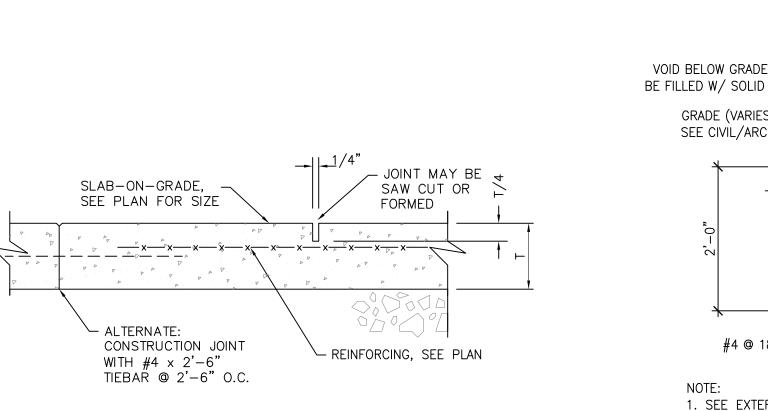


6 TYPICAL SLAB EDGE AT STOREFRONT S2.10 SCALE: 3/4"=1'-0"

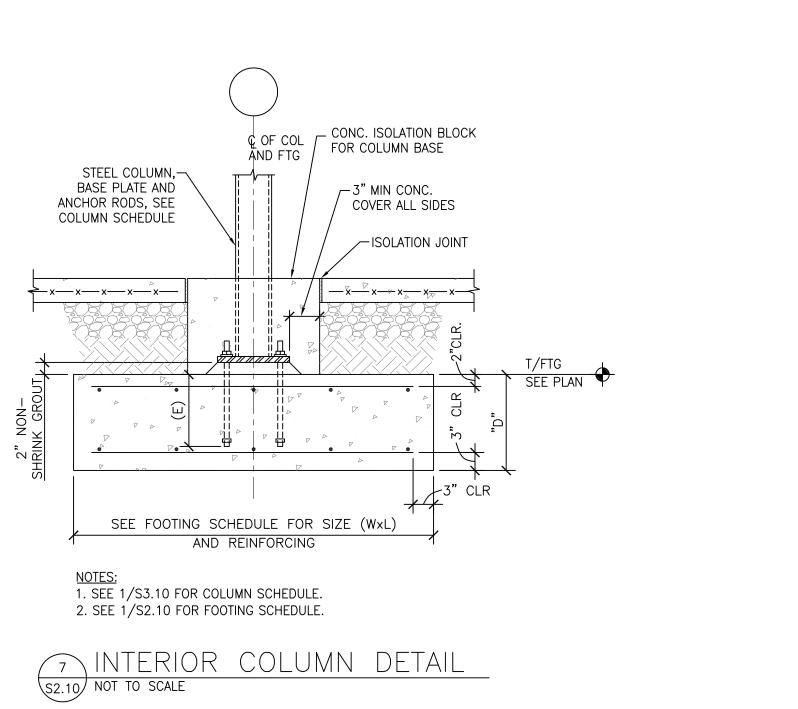


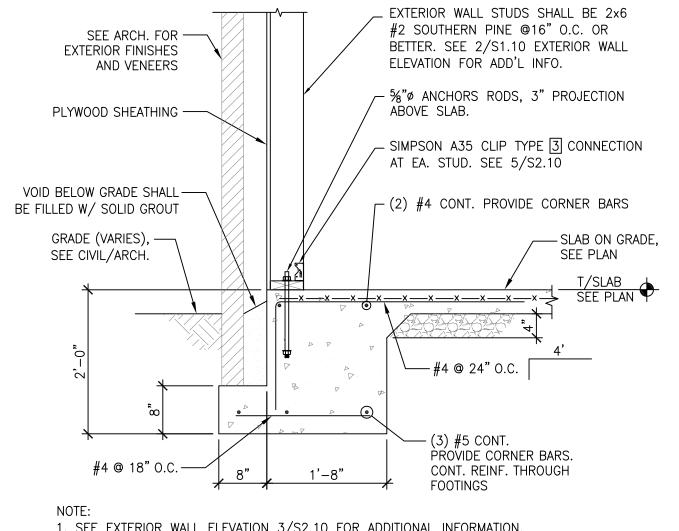
NOTES:
1. SEE 1/S3.10 FOR COLUMN SCHEDULE.
2. SEE 1/S2.10 FOR FOOTING SCHEDULE.

CANOPY FOOTING DETAIL
S2.10 NOT TO SCALE

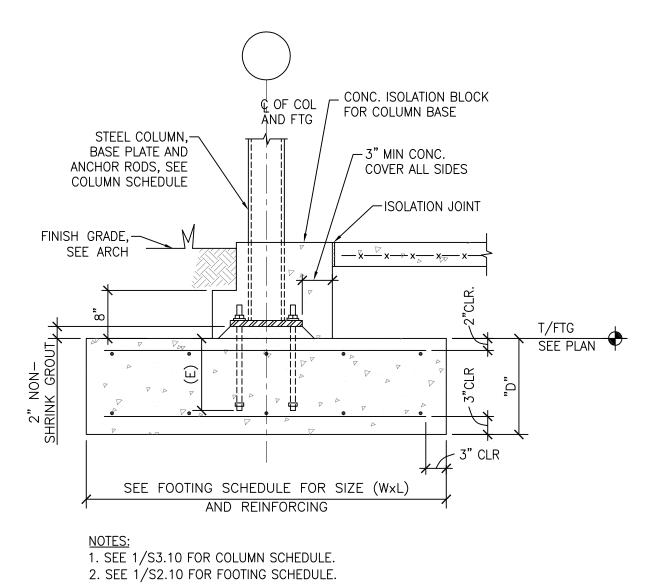


2 CONTROL JOINT S2.10 SCALE: ¾"=1'-0"

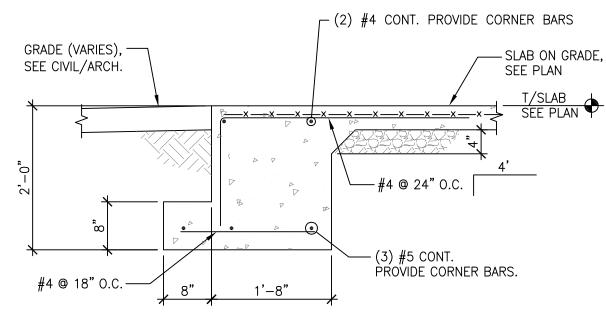




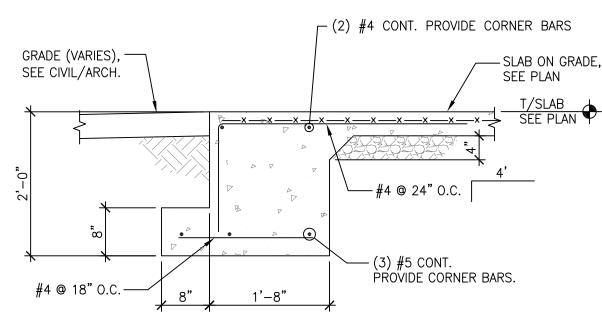
1. SEE EXTERIOR WALL ELEVATION 3/S2.10 FOR ADDITIONAL INFORMATION. 3 TYPICAL SLAB EDGE DETAIL



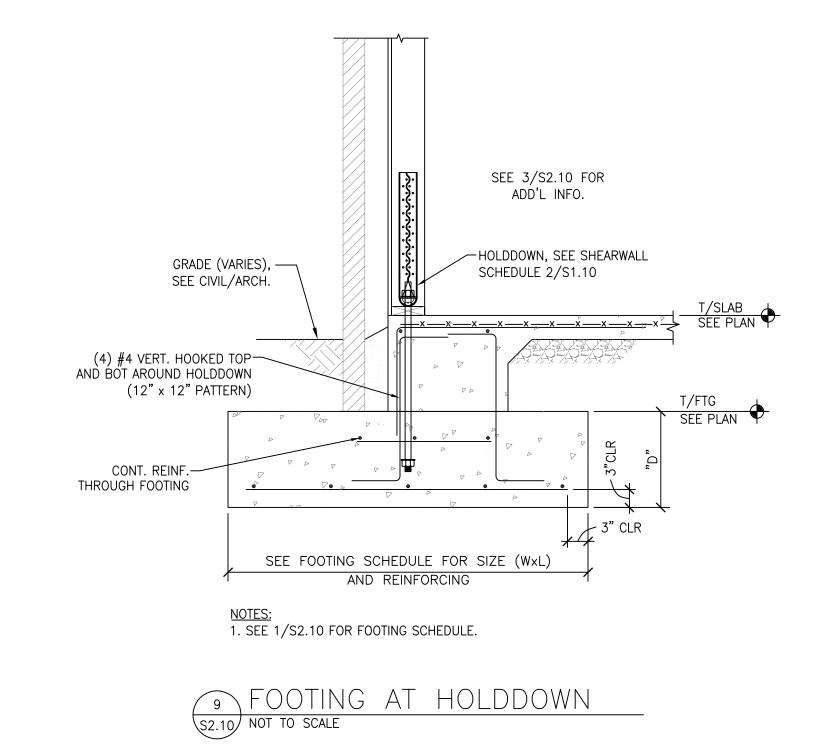
8 EXTERIOR COLUMN DETAIL
S2.10 NOT TO SCALE











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SHEET TITLE Foundation Details

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")	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

CONNECTION	FASTENING 9, m	LOCATION
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
22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3 - 8d COMMON (2½"x0.131")	FACE NAIL
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 AND BOTTOM STAGGERED ON 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

FASTENING SCHEDULE

	1	
CONNECTION	FASTENING ", "	LOCATION
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 SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	½" AND LESS 6d c,l 2¾"x0.113" NAIL ⁿ 1¾" 16 GAGE ^o 1¾2" TO ¾" 8d OR 6d e 2¾"x0.113" NAIL ^P 2" 16 GAGE P ¾" TO 1" 8d C 1½" TO 1¼" 10d 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	NO. 11 GAGE ROOFING NAIL h 6d COMMON NAIL (2"x0.113") NO. 16 GAGE STAPLE 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.

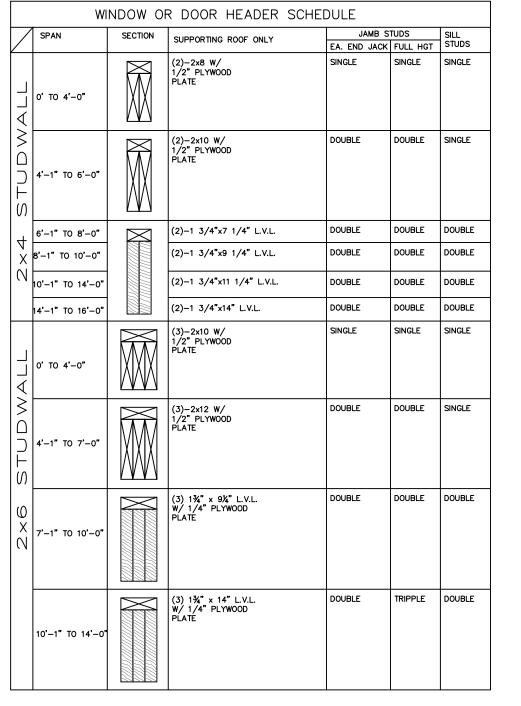
 c. Common or deformed shank $(6d - 2^nx0.113^n; 8d - 2\frac{1}{2}^nx0.131^n; 10d - 3^nx0.148^n)$.

 d. Common $(6d - 2^nx0.113^n; 8d - 2\frac{1}{2}^nx0.131^n; 10d - 3^nx0.148^n)$.

 e. Deformed shank $(6d - 2^nx0.113^n; 8d - 2\frac{1}{2}^nx0.131^n; 10d - 3^nx0.148^n)$.

 f. Corrosion-resistant siding $(6d - 1\frac{1}{2}^nx0.106^n; 8d - 2\frac{1}{2}^nx0.128^n)$ or casing $(6d - 2^nx0.099^n; 8d - 2\frac{1}{2}^nx0.113^n)$ nail.
- 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 h. Corrosion-resistant roofing nails with $\frac{1}{6}$ " diameter head and $\frac{1}{2}$ " length for $\frac{1}{2}$ " sheathing and $\frac{1}{4}$ " length for i. Corrsion—resistant staples with nominal $\frac{1}{16}$ " crown and $1\frac{1}{16}$ " length for $\frac{1}{12}$ " sheathing and $1\frac{1}{12}$ " length for ²⁵/₅₂" sheathing. Panel supports at 16" (20" if strength axis in the long direction of the panel, unless
- j. 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 ¾6". n. For roof sheathing applications, fasteners spaced 4" on center at edges, 8" at intermediate supports.

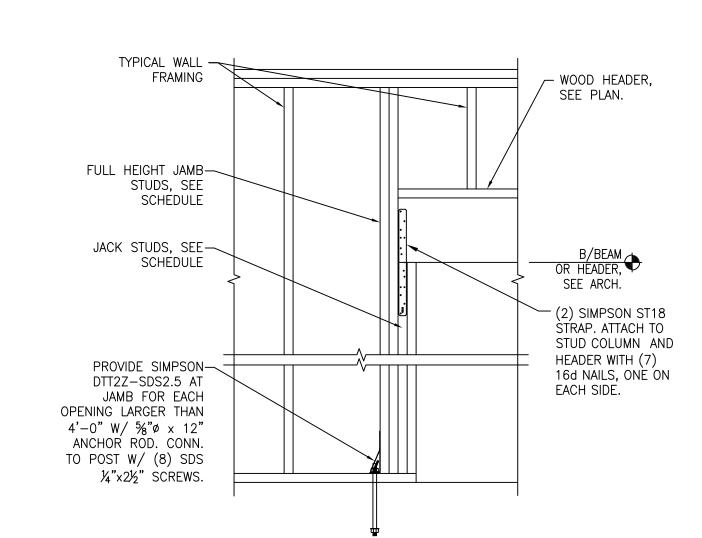
 o. Fasteners spaced 4" on center at edges, 8" at intermediate supports for subfloor and wall sheathing and 3" on center at edges, 6" at intermediate supports for roof sheathing. p. Fasteners spaced 4" on center at edges, 8" at intermediate supports.



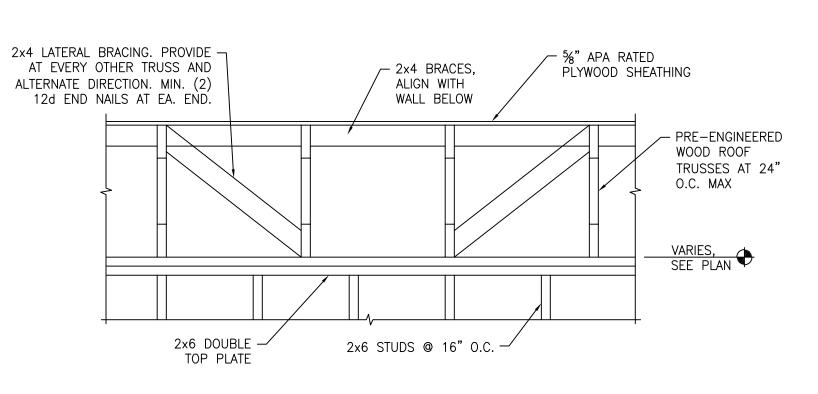
NOTES:

1. PROVIDE DOUBLE STUD BEARING EACH END OF LINTEL, TYPICAL ALL LINTELS OVER 4'-0" SPAN. 2. SEE 2/S3.10 FOR HEADER CONNECTION DETAIL.

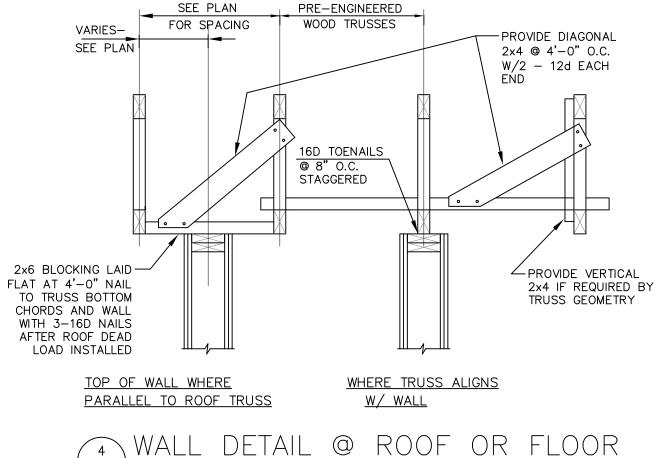
S3.10 NOT TO SCALE

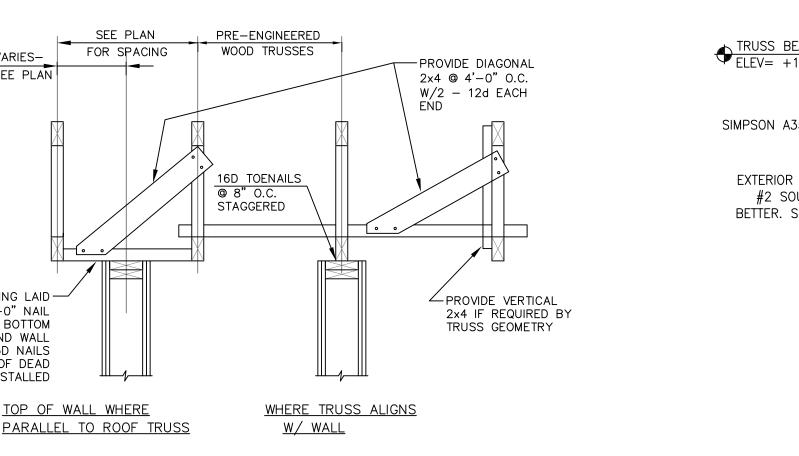


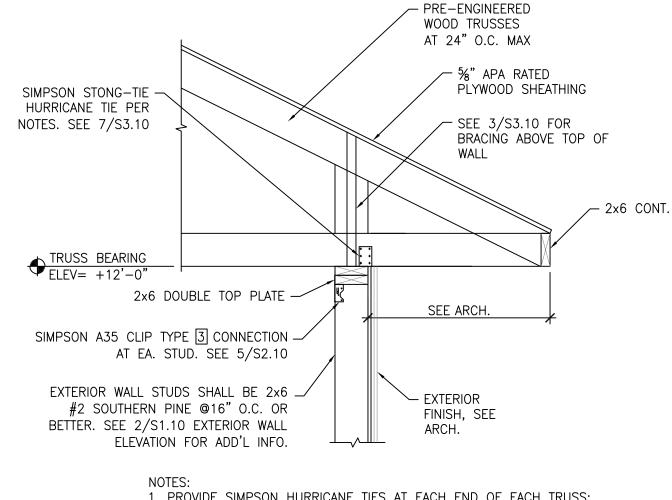
TYPICAL JAMB AND 2 HEADER CONNECTION DETAIL S3.10 NOT TO SCALE



1. BRACING SHOWN IS IN ADDITION TO BRACING REQUIRED BY WOOD TRUSS MANUFACTURER. 2. PROVIDE TRIPPLE STUD UNDER TRUSS GIRDER BEARING POINTS. 3 PARTIAL ELEVATION
S3.10 SCALE: 3/4"=1'-0"



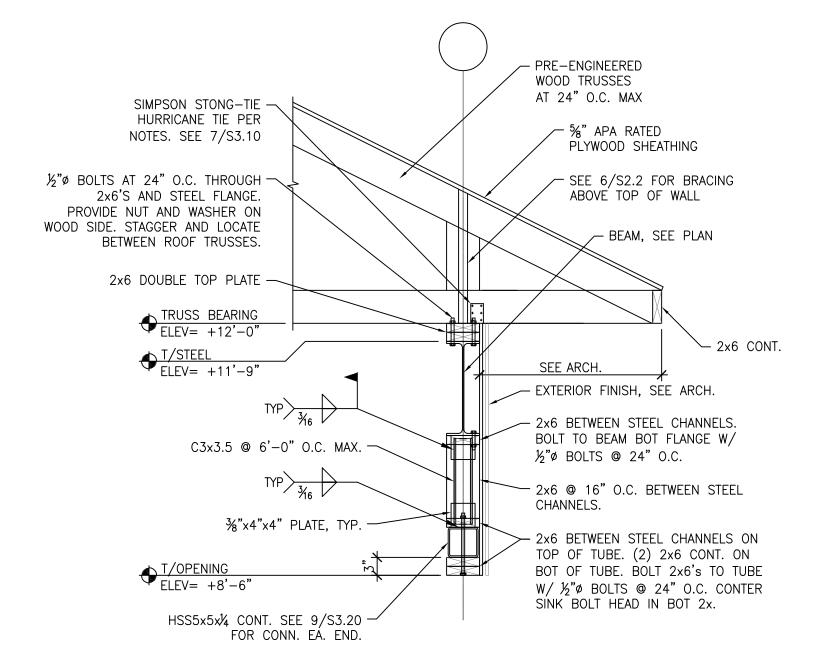




1. PROVIDE SIMPSON HURRICANE TIES AT EACH END OF EACH TRUSS: AT TRUSSES - (1) H10A (EXT. FACE OF WALL) AT J.T. AND CORNER SET TRUSSES - (1) H2.5A (EXT. FACE OF WALL) AT H.G. – (2) H2.5A AT T.G. - (1) LGT2 W/ SD SCREWS @ 2-PLY (1) LGT3-SDS2.5 @ 3-PLY

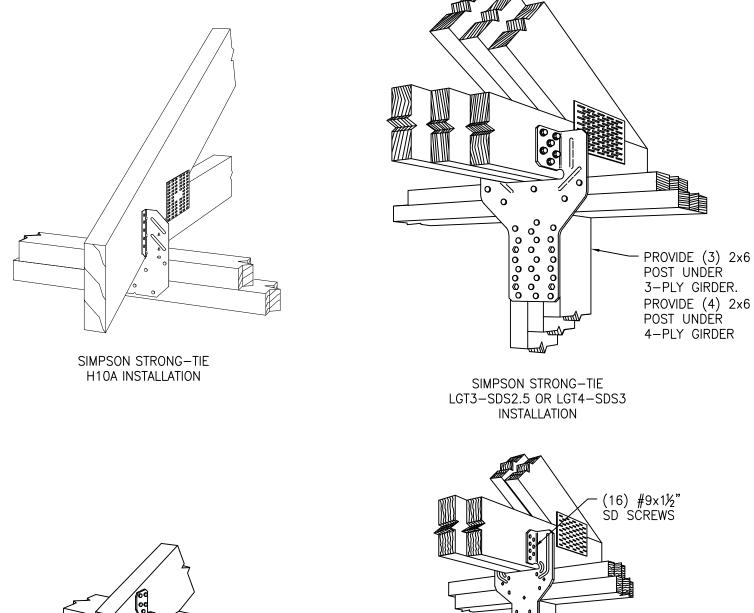
\$3.10 SCALE: 3/4"=1'-0"

(1) LGT4-SDS3 @ 4-PLY (INT. FACE OF WALL)



1. PROVIDE SIMPSON HURRICANE TIES AT EACH END OF EACH TRUSS: AT TRUSSES - (1) H10A (EXT. FACE OF WALL) AT J.T. AND CORNER SET TRUSSES - (1) H2.5A (EXT. FACE OF WALL) AT H.G. - (2) H2.5A AT T.G. - (1) MGT BOLTED TO TOP FLANGE OF STEEL BEAM

- 2x6 TONGUE AND GROOVE PLANKING

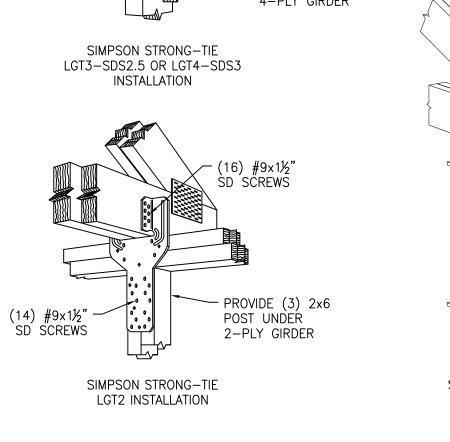


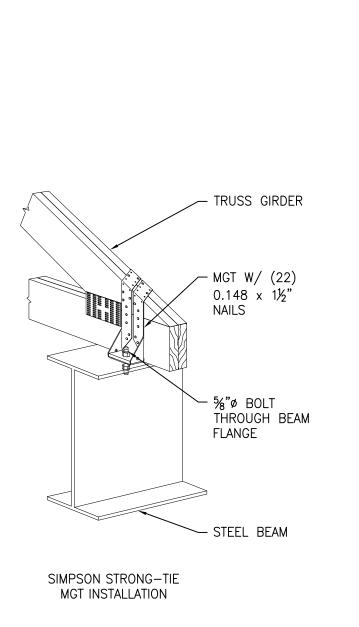
7 WOOD TRUSS HURRICAME TIE DETAILS

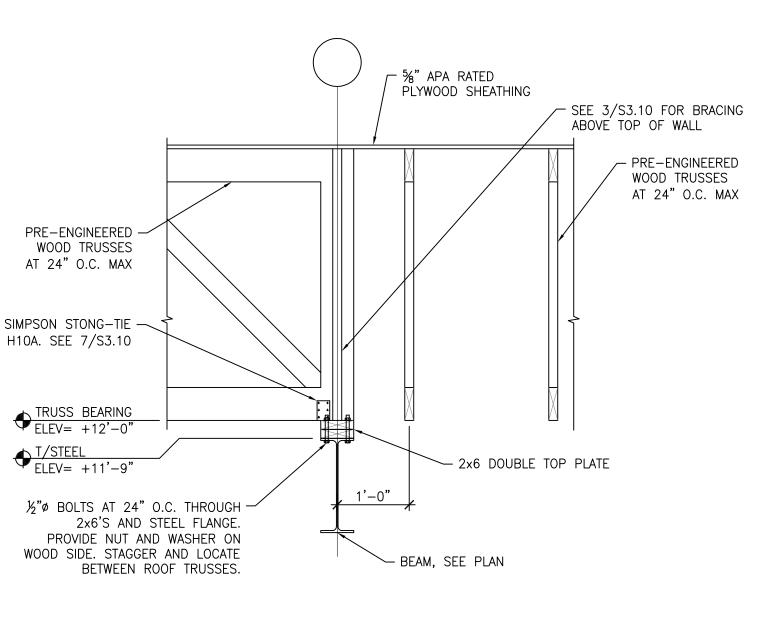
SIMPSON STRONG-TIE

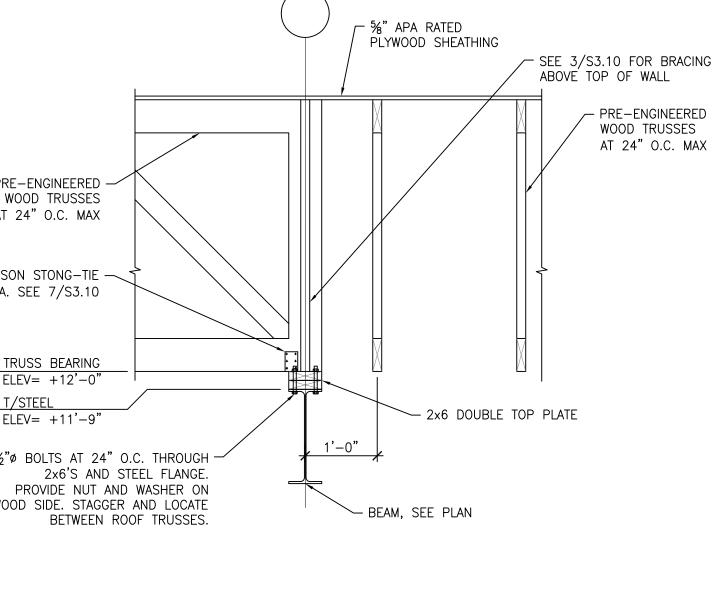
H2.5A INSTALLATION

\$3.10 N.T.S.



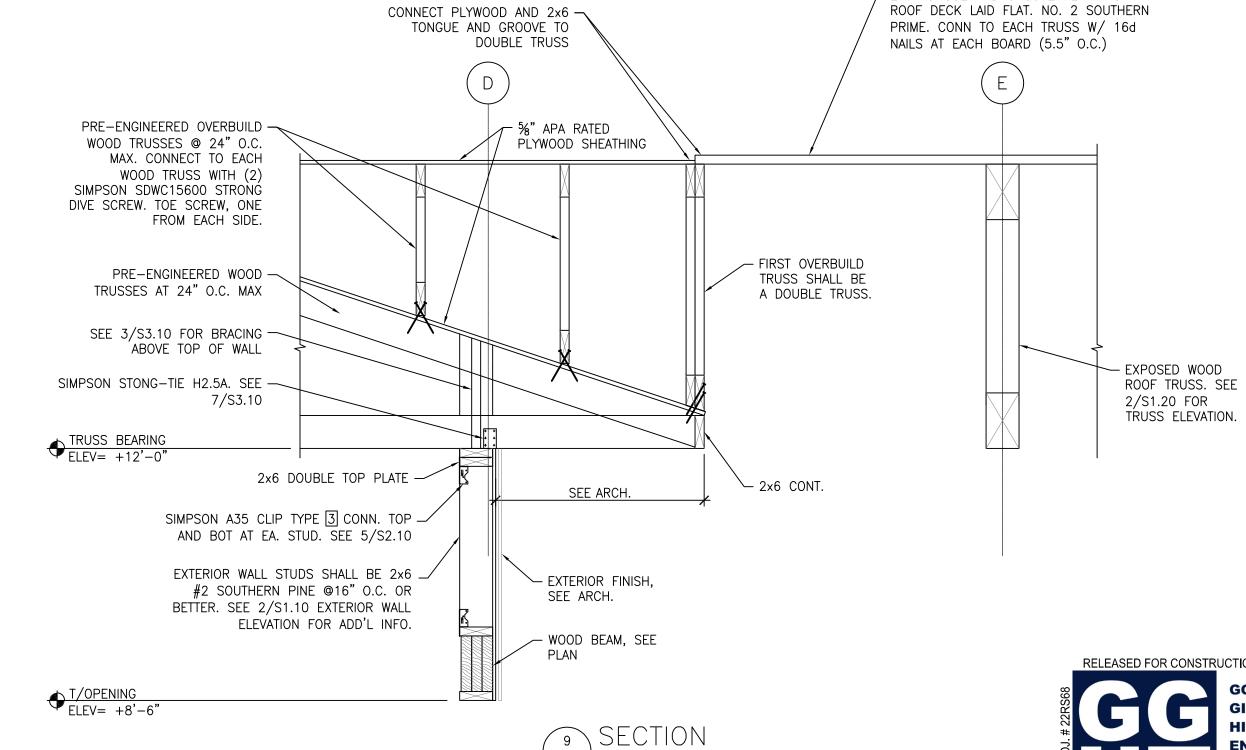






8 SECTION

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



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

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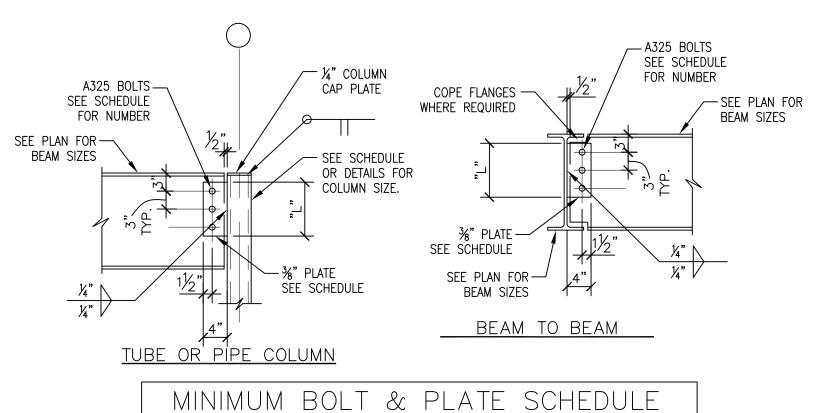
PROJECT NO. 22102

SHEET TITLE Framing Sections and Details

311 14th STREET

ATLANTA, GA 30318

SHEET NO.

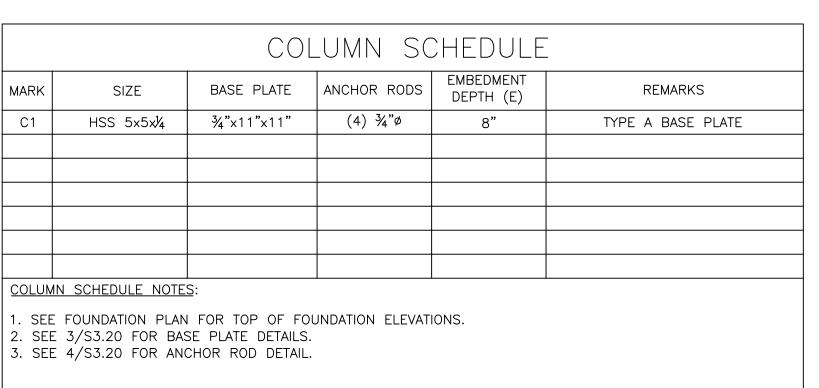


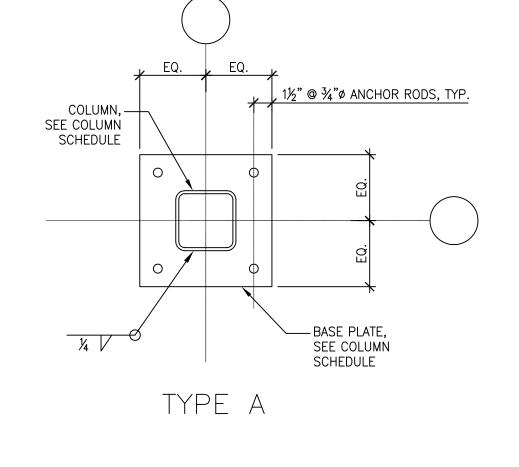
1 TYPICAL STEEL CONNECTION

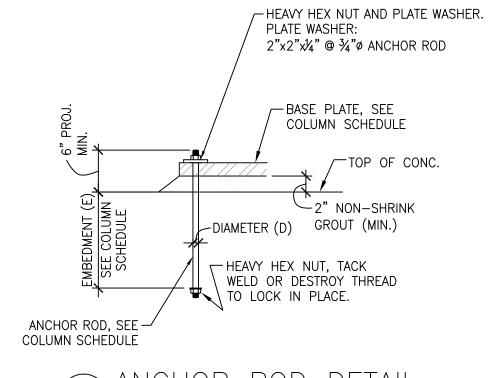
BEAM DEPTH

\$3.20 SCALE: 3/4"=1'-0"

	HEDOLE BEAM SIZ	ES 1 1	
4"	BEAI	M TO BEAM	
OR PIPE COLUM	N		
MINIMUM B	OLT & PLATE	SCHEDULE	
	NO. OF BOLT ROWS		
W10, W12	2	5½"	
W14, W16	3	8½"	



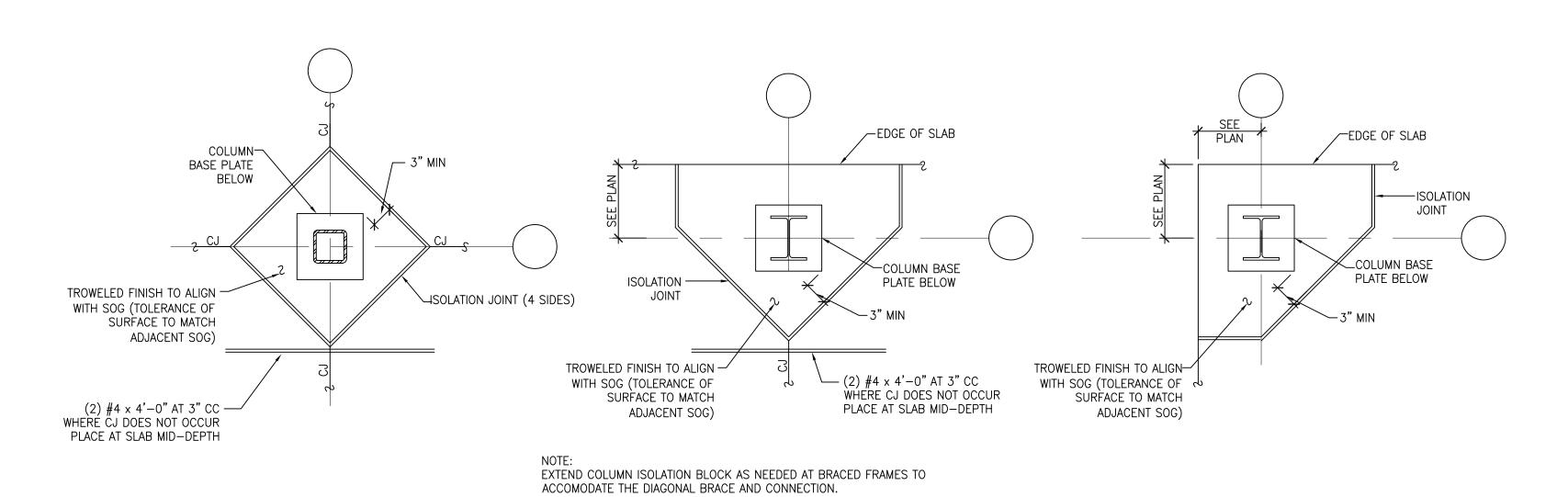




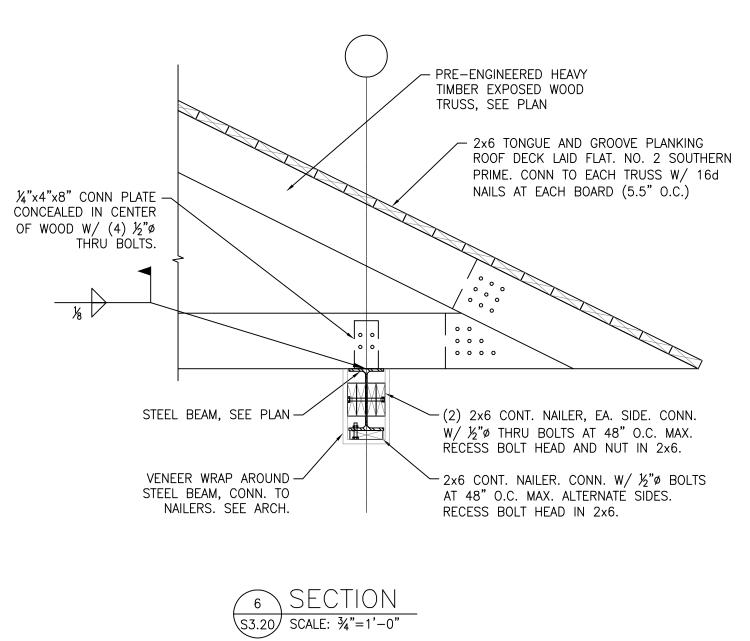
2 COLUMN SCHEDULE S3.20 NOT TO SCALE

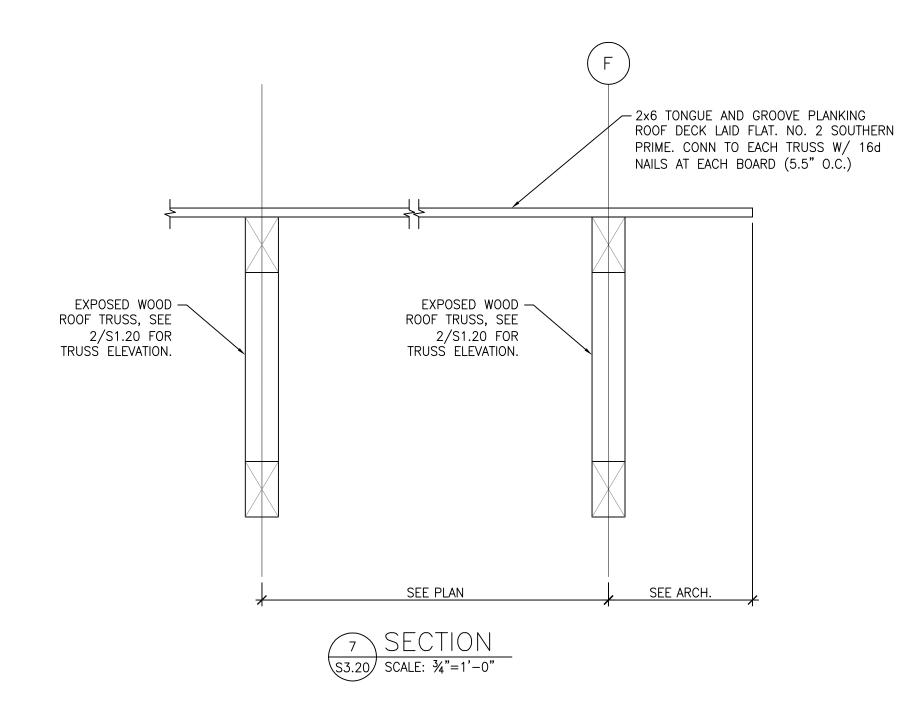
3 BASE PLATE DETAILS
S3.20 SCALE: 1½"=1'-0"

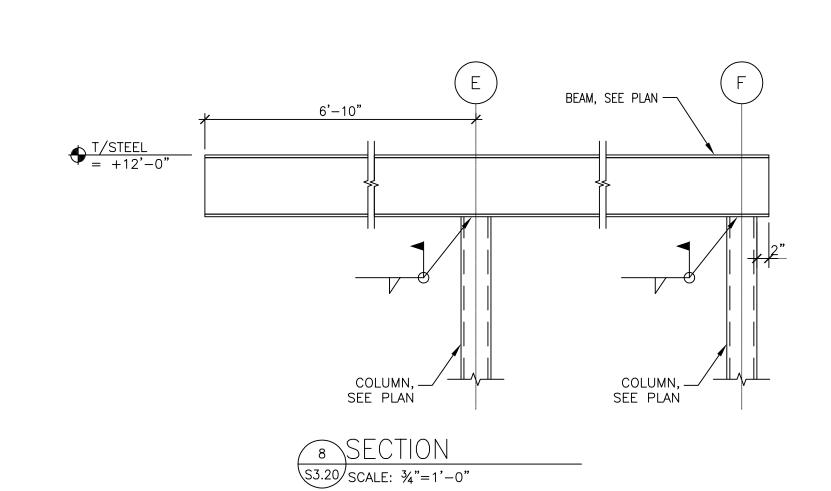


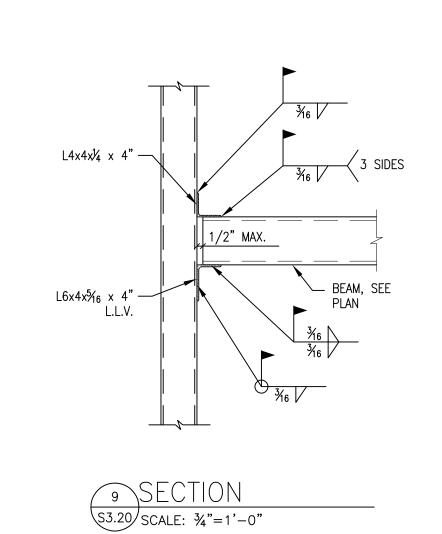


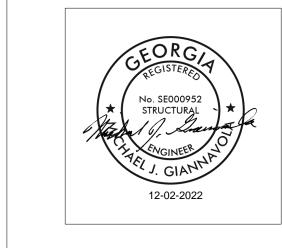












Union County

Elections and

Voter

Registration

51 Industrial

Boulevard

Blairsville,

Georgia 30512

RELEASED FOR CONSTRUCTION

Description

Revisions

Gardner Spencer Smith Tench &

Jarbeau . A Professional Corporation

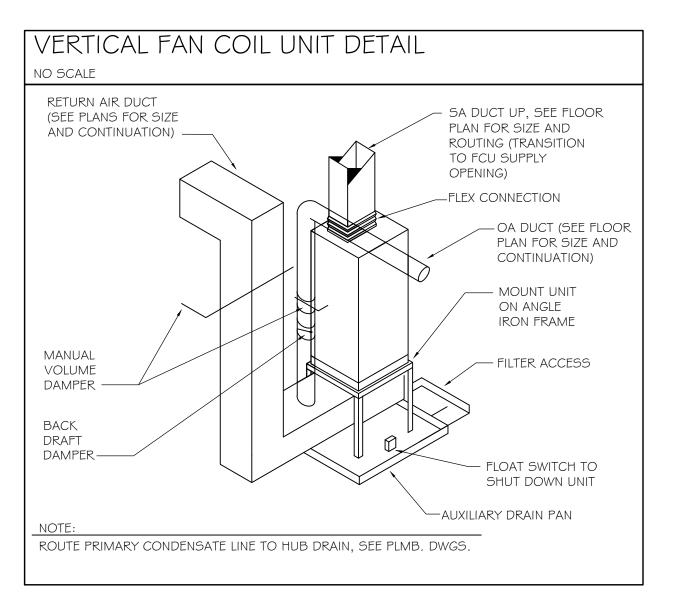
for the Practice of Architecture www.gsstj.com

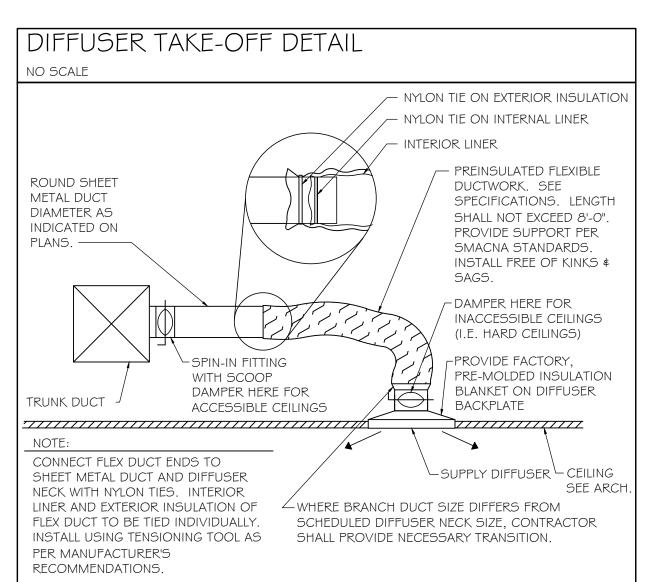
· Tower Place 3340 Peachtree Road, N.E. Suite 1800Atlanta, Georgia 30326404.522.8805 . 404.521.2118 (F)

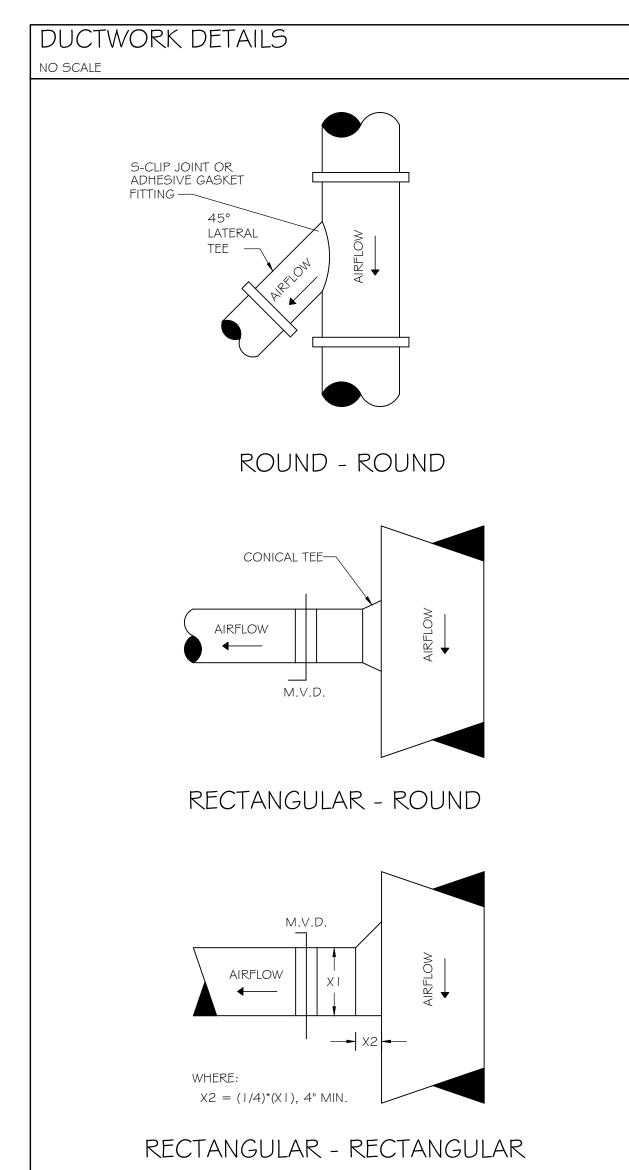
Details

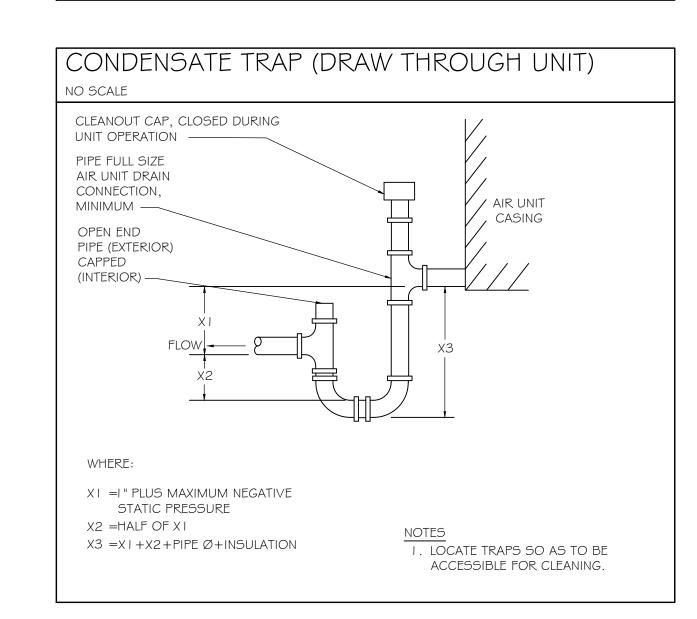
22102 SHEET TITLE Framing Sections and

SHEET NO.









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

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 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.

DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE SHALL BE THERMADUCT PRODUCTS OR COVERED WITH 3M VENTURECLAD JACKETING, OR EQUAL PRODUCT, AND SEALED WEATHER-TIGHT.

DUCT INSULATION:

R-6 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN CONDITIONED AND 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

HEAT PUMP:

— 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.

FANS
— 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.

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

COMPRESSOR WILL BE HERMETICALLY SEALED.

- SHAFTS WILL BE CORROSION RESISTANT.

— 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 VALVE

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.

THE FAN SHALL BE A CENTRIFUGAL, FORWARD CURVED, DOUBLE WIDTH, DOUBLE INLET, 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 CAPABLE OF FIELD OILING AS REQUIRED.

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.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

DUCTLESS SPLIT SYSTEM

WALL-MOUNTED INDOOR UNIT
STANDARD PREFILTER IS INCLUDED WITH INDOOR UNIT
CHOICE OF FAN SPEEDS: LOW, MEDIUM, HIGH
INDOOR UNIT POWERED FROM OUTDOOR UNIT
AUTO RESTART FOLLOWING A POWER OUTAGE
BASE HEATER

LIMITED WARRANTY: FIVE YEARS ON PARTS AND DEFECTS AND SEVEN YEARS ON THE COMPRESSOR

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

SPECIFICATIONS

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.

KAL 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.

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 FLASHING EACH ROOF PENETRATION.

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 MECHANICAL SCOPE.

DIFFUSERS, GRILLES, & REGISTERS:

EGGCRATE GRILLE:

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 I INCH, OR 1 X 1 X 1 INCH SHALL BE AVAILABLE.

STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

DOUBLE DEFLECTION REGISTERS:

ALUMINUM SUPPLY GRILLES SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE DEFLECTION BLADES SHALL BE AVAILABLE PARALLEL TO THE LONG OR SHORT DIMENSION OF THE GRILLE OR REGISTER. CONSTRUCTION SHALL BE OF ALUMINUM WITH A 11/4-INCH WIDE BORDER ON ALL SIDES. SIZES 24 X 24 INCHES AND BELOW SHALL HAVE ROLL-FORMED BORDERS WITH A MINIMUM THICKNESS OF 0.032 INCH. LARGER SIZES SHALL BE CONSTRUCTED USING CONTINUOUS ALUMINUM EXTRUSIONS WITH A NOMINAL THICKNESS OF 0.040 THROUGH 0.050 INCH AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. SCREW HOLES SHALL BE COUNTERSUNK FOR A NEAT APPEARANCE.

DEFLECTION BLADES SHALL BE CONTOURED TO A SPECIFICALLY DESIGNED AND TESTED CROSS-SECTION TO MEET PUBLISHED TEST PERFORMANCE DATA. BLADES SHALL BE SPACED ON 34-INCH CENTERS. BLADES SHALL HAVE FRICTION PIVOTS ON BOTH SIDES TO ALLOW INDIVIDUAL BLADE ADJUSTMENT WITHOUT LOOSENING OR RATTLING OR BE INSERTED THROUGH THE FRAME AND HELD TIGHT WITH STEEL FRICTION WIRE INTERLOCKED TO THE FRAME ON BOTH ENDS OF EACH SIDE. PLASTIC BLADE PIVOTS ARE NOT ACCEPTABLE.

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

THE GRILLE FINISH SHALL BE #26 WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315° 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.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE GRILLE. THE GRILLE SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-2006.

PLAQUE DIFFUSERS: 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 18 X 18-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 1 1/4-INCH DEPTH AVAILABLE FOR DUCT CONNECTION.

THE FINISH SHALL BE #26 WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 3 I 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 1-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.

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.

LEGEND	
SYMBOLS	DESCRIPTION
<u>X1</u> 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
→	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
- √→	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
1111111	FLEXIBLE DUCT
Γ	MANUAL VOLUME DAMPER (MVD)
	BACKDRAFT DAMPER (BDD)
, FD	VERTICAL (TYP. WALL) FIRE DAMPER
FSD	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
L _m FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
FSD	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
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 MULTIPLE INSTANCES.

455	150/5 50/00/55 5/005	М	MOTOR
AFF	ABOVE FINISHED FLOOR	IVI	MOTOR
BDD	BACKDRAFT DAMPER	MA	MAKE-UP AIR
AHU	AIR HANDLING UNIT	MAU	MAKE-UP AIR UNIT
CO2	CARBON DIOXIDE	MAV	MANUAL AIR VENT
CU	CONDENSING UNIT	мвн	I ,000 BTU PER HR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
DH	DEHUMIDIFIER	MVD	MANUAL VOLUME DAMPER
EA	EXHAUST AIR	NC	NORMALLY CLOSED
EAT	ENTERING AIR TEMPERATURE	NO	NORMALLY OPEN
EDH	ELECTRIC DUCT HEATER	ОА	OUTSIDE AIR
EF	EXHAUST FAN	OBD	OPPOSED BLADE DAMPER
ESP	EXTERNAL STATIC PRESSURE	PIU	POWER INDUCTION UNIT
EWH	ELECTRIC WALL HEATER	RA	RETURN AIR
F	DEGREES FAHRENHEIT	RH	RELIEF HOOD
FCU	FAN COIL UNIT	RTU	ROOFTOP UNIT
FD	FIRE DAMPER	SA	SUPPLY AIR
FSD	COMBINATION FIRE/SMOKE DAMPER	SP	STATIC PRESSURE
FURN	FURNACE	U.N.O	UNLESS NOTED OTHERWISE
Н	HUMIDISTAT	UC	UNDER CUT DOOR
IH	INTAKE HOOD	VAV	VARIABLE AIR VOLUME
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LWT	LEAVING WATER TEMPERATURE	WL	WALL LOUVER

SPECIFICATIONS

APPLICABLE CODES

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

INTERNATIONAL PLUMBING CODE (IPC), 2018 EDITION
2022 IPC GA AMENDMENTS
INTERNATIONAL MECHANICAL CODE (IMC), 2018 EDITION
2020 IMC GA AMENDMENTS
INTERNATIONAL FUEL GAS CODE (IFGC), 2018 EDITION

2022 IFGC GA AMENDMENTS

INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION 2022 SUPPLEMENTS AND AMENDMENTS

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 TABB.

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

nion County lections and Voter Registration

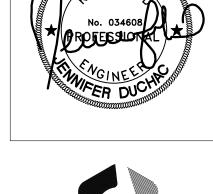
n industrial Boulevard Blairsville, orgia 30512

Revisions

Date Description

RELEASED FOR CONSTRUCTION

OR G





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

PROJECT NO.

SHEET TITLE

:22102



DIFFUSER, GRILLE, AND REGISTER SCHEDULE							
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL		
C1812	EGGCRATE GRILLE	18x12	18x12	25	TITUS 50F		
C2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F		
6C1206	DOUBLE DEFLECTION REGISTER	14x8	12x6	25	TITUS 300FS		
6C1806	DOUBLE DEFLECTION REGISTER	20x8	18x6	25	TITUS 300FS		
6CP06	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6Ø	25	TITUS OMNI		
6CP08	SUPPLY CEILING PLAQUE DIFFUSER	24x24	8Ø	25	TITUS OMNI		

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

				INDOOR	UNIT					0	UTDOOR UNI	T			COME	BINED COC	DLING CAPA	CITIES						
		TOTAL				AUXILIARY		BASIS				BASIS	NOMINAL				COOLIN	1G				RI	EMARK	.(5
MARK	SERVES	S.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 @ 208V)	(LBS)	DESIGN	SEER	HSPF	(LBS)	DESIGN	(TONS)	(MBH)	(MBH)	(MBH)	(°F)	(°F)	(°F)	(°F)	1	2 3	4	5 6 7
FCU-1/ HP-1	VOTER REGISTRATION	1,990	270	0.50	3/4 ECM	11.3	175.0	FX4DNF0G1	14.0	8.2	250.0	25HCE460	5.0	60.8	44.7	16.1	77.6	65.5	56.0	55.0	X	x x	X	x x x
FCU-2/ HP-2	EARLY VOTING	1,990	355	0.50	3/4 ECM	11.3	175.0	FX4DNF061	14.0	8.2	250.0	25HCE460	5.0	62.6	45.9	16.8	78.4	65.9	56.2	55.2	X	x x	X	x x x
FCU-3/ HP-3	ELECTIONS BMD	1,990	305	0.50	3/4 ECM	11.3	175.0	FX4DNF061	14.0	8.2	250.0	25HCE460	5.0	62.0	45.3	16.6	77.9	65.7	56.0	55.0	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: JCIYORK, 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.
- G. 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.

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

		INDOOR UNIT					OU	TDOOR UI	VIT	COMBINED CAPACITIES		
										COOLING	HEATING	
MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL	CFM	MARK	MIN.	MIN.	MODEL/SERIES	TOTAL	@ 47°F	
				TONS			SEER	HSPF		(MBH)	(MBH)	
MFCU-1	117 DATA	WALL-MOUNTED, COOLING ONLY	PKA-A24KA4	2.00	635/705/775	MCU-1	17.0	N/A	PUY-A24NHA4	24.0	N/A	

NOTES (APPLY TO ALL):

- A. BASIS OF DESIGN: MITSUBISHI. EQUAL PRODUCTS: DAIKIN, LENNOX, SAMSUNG, LG, SANYO, CARRIER, JCI/YORK.
- B. SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL
- SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.
- C. R-4 | OA REFRIGERANT.
- D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.
- E. WALL MOUNTED WIRED REMOTE CONTROLLER.
- F. INVERTER DRIVEN COMPRESSOR.
- G. MOUNT OUTDOOR UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
- H. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 100 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED,
- CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUCAFTURER LINE SET LIMITATIONS.

FAN SCHEDULE

							MAX.		BASIS	PE	MAR	rs
MARK	DUTY	TYPE	CFM	E.S.P.	MOTOR	DRIVE	NOISE	CONTROL	OF DESIGN	INL	JVIAIN	
				(IN WG)	(W / hp *)		(SONES)	BY	MODEL	1	2	3
EF-1	EXHAUST	CEILING CABINET	70	0.25	100	DIRECT	1.5	SWITCHED WITH LIGHTS	GREENHECK SP	X	Х	X
EF-A	EXHAUST	CEILING CABINET	210	0.5	240	DIRECT	4.0	SWITCHED WITH	GREENHECK SP	X	X	X

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. INTEGRATED FAN SPEED CONTROLLER INSIDE FAN FOR BALANCING.

- 2. FACTORY DISCONNECT SWITCH/PLUG.
- 3. GRAVITY BACKDRAFT DAMPER.

GRAVITY VENTILATORS

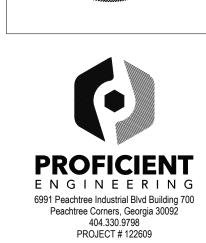
						THROAT	MAX		rem,	ARKS	ò
MARK	MODEL/	TYPE	SERVICE	CFM	THROAT	VELOCITY	SP		2	3	4
	SERIES				AREA (SF)	(FPM)	(IN WC)	'	_)	
(H- I	GRSI	INTAKE	FCU - 1, 2 \$ 3 OUTSIDE AIR INTAKE	930	1.83	508	0.05	X	X	X	X
RH-I	GRSR	RELIEF	EF-A	420	0.82	512	0.05	Х	Х	X	Х

- 1. INSULATED HOOD
- 2. ALUMINUM BIRDSCREEN
- 3. GRAVITY BACKDRAFT DAMPER
- 4. FACTORY, INSULATED, ROOF CURB

Union County

RELEASED FOR CONSTRUCTION

		Revisions
٥.	Date	Description

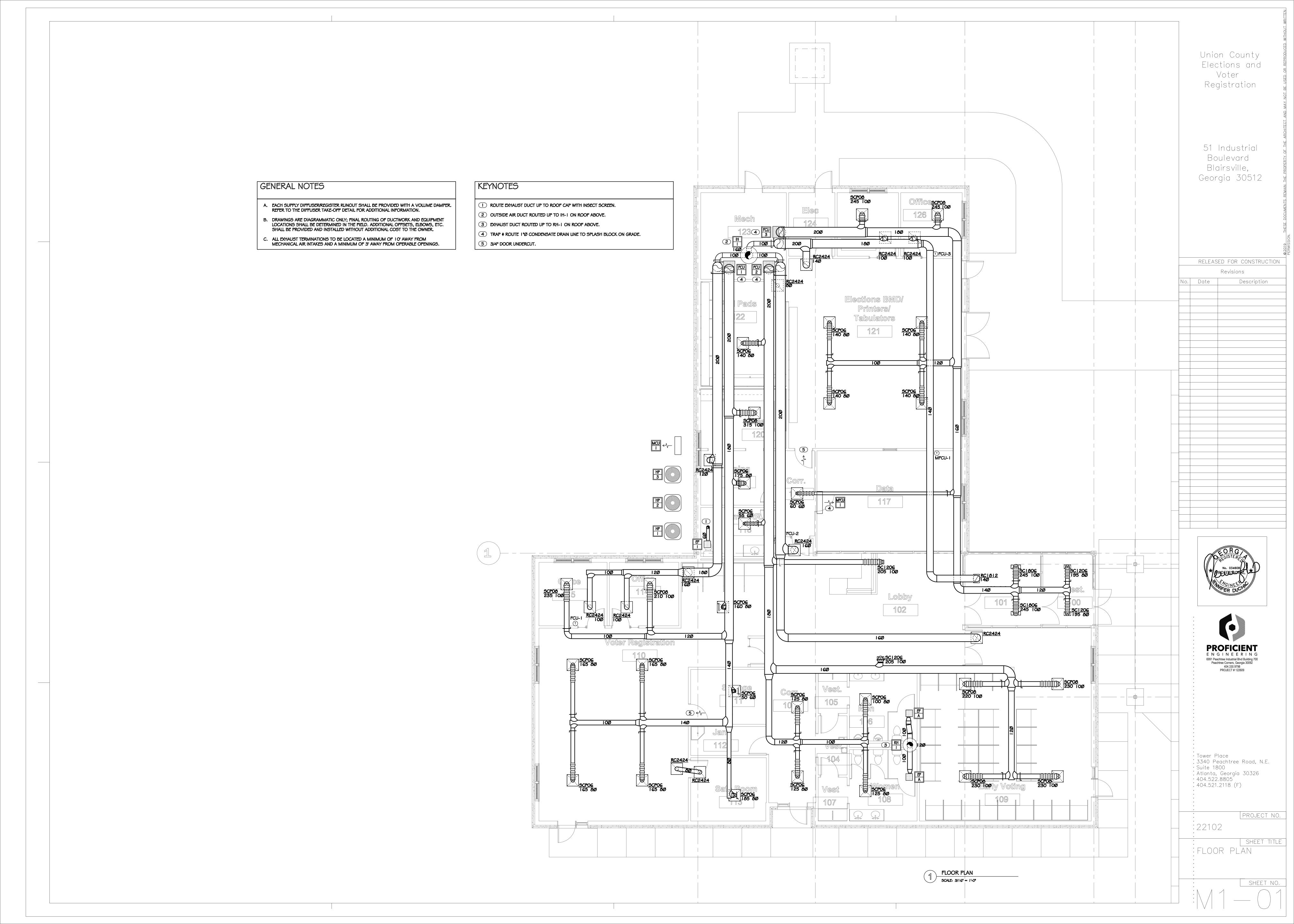


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:22102

SHEET TITLE SCHEDULES

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.

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HE 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 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 LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE 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 TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT 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.

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 OF THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIELD, 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

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL

CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS.

MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITER'S REQUIREMENTS AND BEAR THE UNDERWRITER'S LABORATORIES' SEAL OF APPROVAL.

LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL TO INCLUDE THE PUBLISHED MANUFACTURER'S DESCRIPTION AND SPECIFICATION. CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS

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 SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS.

CONDUITS AND RACEWAYS:

MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.

OUTDOORS EXPOSED: RIGID STEEL.

HANGER FROM THE STRUCTURAL CEILING.

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.

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

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

LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND PBI, NFPA #70-384 AND 70-373. ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION.

PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVICES AND AREA IT'S SERVING. APPROVED MANUFACTURERS:

GENERAL ELECTRIC CUTLER HAMMER SQUARE D

LIGHTING CONTROL

SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917. 20-A BALLAST LOAD, 120/240VAC.

TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.

ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A PROGRAM.

TIME CLOCK. INDOOR OCCUPANCY SENSORS: WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE

BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND

ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.

SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH

UL773A. SENSOR IS POWERED FROM POWER PACK. POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC. AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX);

TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT. DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND ULTRASONIC DETECTION METHOD.

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250. COPPER WIRE OR CABLE INSULATED FOR GOOV UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.

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: PIRELLIE

SOUTHWIRE AETNA REPUBLIC AFC ENCORE WIRE

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.

CONTRACTOR SHALL MAKE ADEQUATE ADJUSTMENT TO CONDUIT SIZES INDICATED SHOULD ALTERNATIVE CONDUCTOR INSULATION OR MATERIAL BE UTILIZED.

ELECTRICAL GENERAL NOTES

DIMENSIONS.

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

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.

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.

IS EXPOSED. ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED

ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING

WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION. DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN

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

ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE

PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT. GENERAL DIAGRAMMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL

AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES. RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR 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 TVSS FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV. I 5 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY 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.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES. EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTME 814 OR E199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES 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 APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION. CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300. I 9(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER. FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE

COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS

DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS. ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

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

		UNLESS NOTED OTHERWIS
Ф	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
+	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABO\ COUNTER TOP
#	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
₩ _{AC}	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOV
\bigcirc	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHE FLOOR
Ф	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
P	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
φ	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
<u> </u>	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
J	JUNCTION BOX FLUSH IN FINSHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHE FLOOR
\$	SWITCH	42" AFF
3 / \$ ₃	SWITCH - 3 WAY	42" AFF
¢ / \$ ₀₅	SWITCH - WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
\$ _{LV}	SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
⊅ / \$ _D	SWITCH - WALL MTD, DIMMING	42" AFF
(S)	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
P	TV OUTLET	18" AFF
▼	TELEPHONE OUTLET	18" AFF
₹	TELEPHONE OUTLET. SUBSCRIPT: F - FIREMAN'S PHONE, H - HOUSE PHONE, P - PAY PHONE	42" AFF OR 6" ABOV
•	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
4	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHE FLOOR
4	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOV COUNTER TOP
∇	DATA OUTLET	18" AFF
\forall	DATA OUTLET	42" AFF OR 6" ABOV COUNTER TOP
	DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
/M/	MOTOR	
XX-#	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL , (3) HOT III \$ (1) GROUND •	
0/0-	SMOKE DETECTOR. CEILING / WALL MOUNTED	
H/H-	HEAT DETECTOR. CEILING/WALL MOUNTED	
▼ ⊠	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF

FIRE ALARM NOTIFICATION DEVICE. AUDIO.

FIRE ALARM NOTIFICATION DEVICE. VISUAL.

6" ABOVE COUNTER SPACE OR

ABOVE FINISHED FLOOR

BELOW FINISHED CEILING

CONNECTED OR CONNECTION PNL

ABBREVIATIONS

BKR

CONN

FAA

G OR GRND

GFCI OR GF

AMP FUSE

ALUMINUM

BACKBOARD

EMPTY CONDUIT

FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR

GROUND FAULT CIRCUIT

INTERRUPTER

ELECTRICAL

OPPER

FIRE ALARM INITIATION DEVICE. PULL STATION.

DESCRIPTION

TYPICAL MOUNTING HEIGHT

UNLESS NOTED OTHERWISE

80" AFF

80" AFF

42" AFF

ISOLATED GROUND

MOUNTED

NEUTRAL

NIGHT LIGHT

RECEPTACLE

TELEPHONE

TELEVISION

SUPPRESSOR

TRANSFORMER

UNDERGROUND

WEATHERPROOF

TYPICAL

SHORT CIRCUIT CURRENT

NATIONAL ELECTRICAL CODE

TELEPHONE TERMINAL BOARD

LEGEND

SYMBOLS

Union County

RELEASED FOR CONSTRUCTION

Description

Revisions

Date



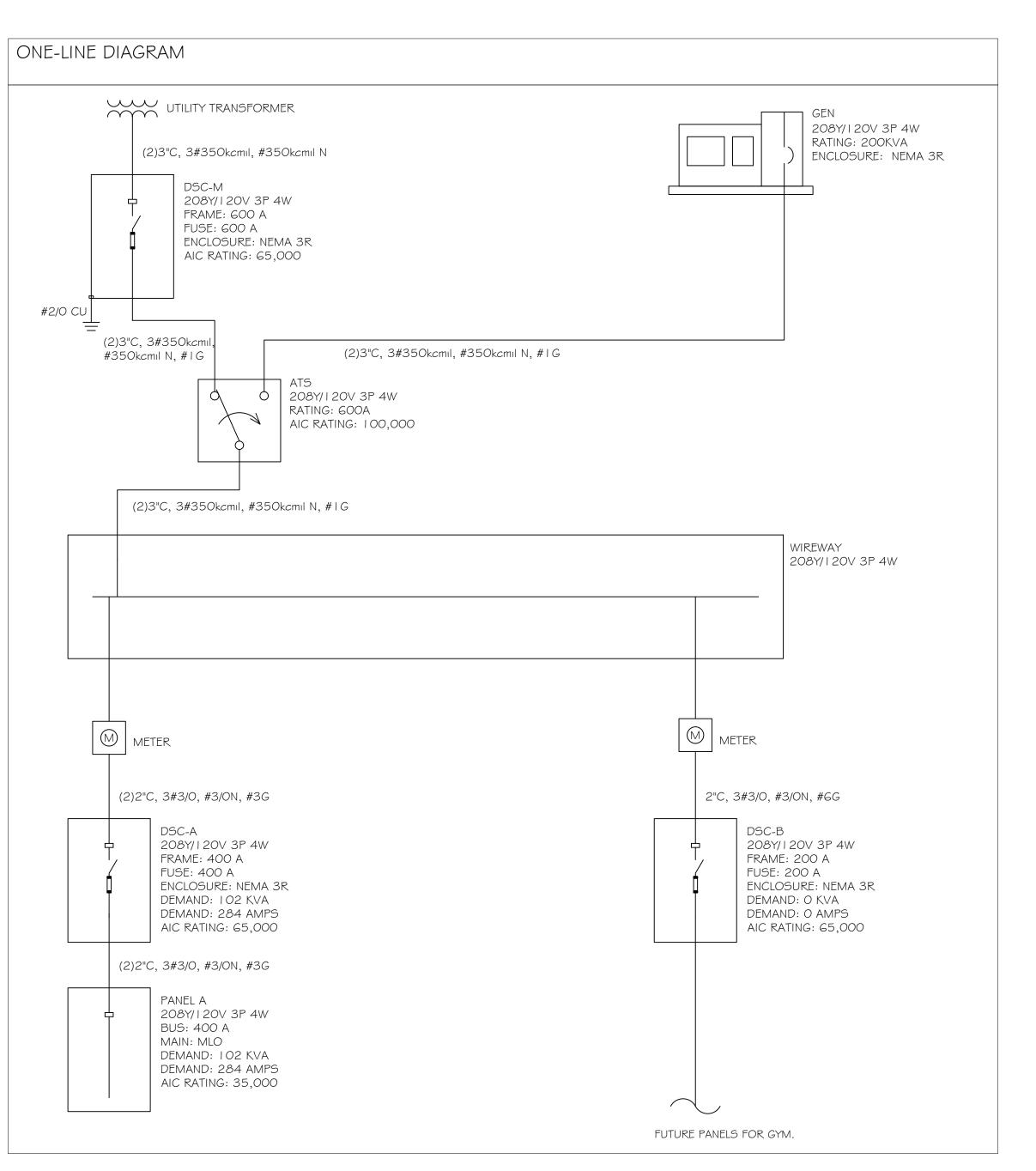
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:22102

GENERAL

PROJECT NO.

SHEET TITLE



GROUNDING AND BONDING DETAIL

#4 CU ─

GROUNDING / CLAMP —

#6 CU

TO CATV

INTERSYSTEM

TERMINATION —

TO TELEPHONE TERMINAL BOARD

3/4" x 10' GROUND ROD (MIN. 6' APART) ¬

BONDING

MAIN BONDING JUMPER
SIZE ACCORDING TO NEC
TABLE 250.102(C)(1)

MATCH ONE-LINE GROUND (≟) WIRE SIZE — SERVICE DISCONNECT EQUIPMENT

SERVICE ENTRANCE

CONDUIT-

─ METAL WATER SERVICE MATCH ONE-LINE GROUND (\(\frac{1}{2}\)) WIRE SIZE -BUILDING STEEL

ROD ELECTRODE

AS PER 250.52(A)(5)

ENCASED IN
BUILDING FOOTING

FED F	NTING S	URFACE PSC-A	VOLTS BUS AM NEUTRA)	łW		AIC 35,00 MAIN BKR LUGS STAN	MLO			
CKT	CKT			LOAD KVA	4	CKT	CKT			L	oad kva	Д
#	BKR	CIRCUIT DESCRIPTION	A	В	С	#	BKR	CIRCUIT DESCRIPTION	١	A	В	С
1	80/2	FCU-I	7.9			2	50/2	HP-I		3.3		
3		501.0		7.9	7.0	4	5010	LID 0			3.3	
5 7	80/2 I	FCU-2	7.9		7.9	6	50/2	HP-2		3.3		3.3
9	1 80/2	FCU-3	7.9	7.9		10	50/2	HP-3		3.3	3 <i>.</i> 3	
	1	100-3		7.5	7.9	12	30/ <i>E</i>				0.0	3.3
13	30/2	MCU-I, MFCU-I	2.0		7.0	14	20/1	RECEPTACLE		0.9		0.0
15		, 5		2.0		16	25/2	IWH-I			2.1	
17	20/1	EF-I, LIGHTING			1.2	18	İ					2.1
19	20/1	EF-A, LIGHTING	1.6			20	20/1	RECEPTACLE		1.4		
21	20/1	LIGHTING		1.0		22	20/1	OVERHEAD DOOR			1.2	
23	20/1	MICROWAVE			1.5	24	20/1	RECEPTACLE				1.4
25	20/1	REFRIGERATOR	1.2			26	20/1	RECEPTACLE		1.1		
27	20/1	DATA RACK		1.0		28	20/1	RECEPTACLE			0.9	0.7
29	20/1	TEL BACKBOARD			1.0	30	20/1	RECEPTACLE				0.7
31	20/ I 20/ I	WATER COOLER RECEPTACLE	0.6	0.9		32	20/ I 20/ I	RECEPTACLE RECEPTACLE		1.1	1.3	
35	20/T	RECEPTACLE	+	0.9	0.9	36	20/1	LIGHTING			1.5	0.2
37	20/1	LIGHTING	0.5		0.5	38	35/3	IWH-2		3.3		0.2
39	20/1	RECEPTACLE	0.5	1.4		40		10011 2			3.3	
41	20/1	SPACE			0.0	42	i					3.3
43	20/1	RECEPTACLE	1.1			44	20/1	RECEPTACLE		0.9		
45	20/1	RECEPTACLE	İ	1.1		46	20/1	RECEPTACLE		İ	0.2	
47	20/1	RECEPTACLE			1.4	48	20/1	RECEPTACLE				1.1
49	20/1	RECEPTACLE	0.7			50	20/1	RECEPTACLE		0.5		
51	20/1	RECEPTACLE		1.4		52	20/1	RECEPTACLE			0.9	
53	20/1	RECEPTACLE			1.8	54	20/1	RECEPTACLE				1.1
55	20/1	RECEPTACLE	1.4			56	20/1	RECEPTACLE		0.4	, ,	
57 59	20/ I 20/ I	SPACE SPACE		0.0	0.0	58 60	20/1 20/3	RECEPTACLE GRINDER PUMP			1.1	1.8
61	20/1	SPACE	0.0		0.0	62	20/3	GRINDLK I UIVII		1.8		1.0
63	20/1	SPACE	0.0	0.0		64				1.0	1.8	
							T.C	 DTAL CONNECTED KVA E	Y PHASE	43.0	44.0	42.0
								AL CONNECTED AMPS E		358.1	366.1	350.4
		CONN KVA	CALC KVA					CONN KVA			000,1	
1101	ITINIO			0.5%		KITOL	IEN EOLUF				204)	
	ITING			25%)			TEN EQUIF		1.2	(100		
	GEST MOTORS		•	25%) 00%)			INUOUS CONTINUC	14.1 DUS 4.1	17.6 4.1	(125 (100		
	EPTACLES		•	50%>10)		HEAT		47.6	47.6	(100		
ILLO	LITAOLLO	20.1	0.2	70702 10)		COOL		23.7	0.0	(0%)	•	
							L LOAD	'HASE LOAD	102.2			
						DALA	INCLU 3-P	HAUL LUAU	283.7 A			

CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
EF-I	0	120V 1P 2W	0.24	20/1	A-17	1/2"C, # O, # ON, # OG	FACTORY DISCONNECT SWITCH/PLUG
EF-A	0	120V 1P 2W	0.24	20/1	A-19	1/2"C, # O, # ON, # OG	FACTORY DISCONNECT SWITCH/PLUG
EF-A	9	120V 1P 2W	0.24	20/1	A-19	1/2"C, # O, # ON, # OG	FACTORY DISCONNECT SWITCH/PLUG
FCU-I	♥ □	208/120V 2P 3W	15.81	80/2	A-1,3	I-I/4"C,2#2,#2N,#8G	I OOA/2P/NEMA I
FCU-2	♥ □	208/120V 2P 3W	15.81	80/2	A-5,7	I-I/4"C,2#2,#2N,#8G	I OOA/2P/NEMA I
FCU-3	♥ □	208/120V 2P 3W	15.81	80/2	A-9,11	I-I/4"C,2#2,#2N,#8G	I OOA/2P/NEMA I
GRINDER PUMP	⊗ □	208V 3P 4W	5.4	20/3	A-60,62,64	1/2"C,3#10,#10N,#10G	COORDINATE WITH SUPPLIER
HP-I	♥ □	208/120V 2P 3W	6.66	50/2	A-2,4	3/4"C,2#6,#6N,#10G	GOA/2P/NEMA 3R
HP-2	800	208/120V 2P 3W	6.66	50/2	A-6,8	3/4"C,2#6,#6N,#10G	GOA/2P/NEMA 3R
HP-3	800	208/120V 2P 3W	6.66	50/2	A-10,12	3/4"C,2#6,#6N,#10G	GOA/2P/NEMA 3R
IWH-I	800	208/120V 2P 3W	4.1	25/2	A-16,18	1/2"C,2#10,#10N,#10G	30A/2P/NEMA I
IWH-2	♥ □	208V 3P 4W	10	35/3	A-38,40,42	3/4"C,3#8,#8N,#10G	30A/3P/NEMA I
MCU-I	♥ □	208/120V 2P 3W	3.74	30/2	A-13,15	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
MFCU-I	800	208/120V 2P 3W	0.21	30/2	A-13,15	1/2"C,2#10,#10N,#10G	30A/2P/NEMA I

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
А		(1) 23.26W LED	2X4 RECESSED TROFFER	LITHONIA LIGHTING: 2BLT4 30L ADP GZ I O LP830	120V IP 2V
A2	0	(1) 30W LED	2X2 RECESSED TROFFER	LITHONIA LIGHTING: 2BLT2 33L ADP GZ I O LP830	120V IP 2
A2E		(1) 30W LED	2X2 RECESSED TROFFER WITH BATTERY BACKUP	LITHONIA LIGHTING: 2BLT2 33L ADP GZ I O LP830 EL I 4L	120V IP 2
AE		(1) 23.26W LED	2X4 RECESSED TROFFER WITH BATTERY BALLAST	LITHONIA LIGHTING: 2BLT4 30L ADP GZ I O LP830 E I OWLCP	120V IP 2
В	•	(I) I5.3W LED	SURFACE MOUNTED EXTERIOR GRADE LIGHT FIXTURE	PRESCOLITE, LFR-4RD-M-2OL-MD- STANDARD-CL OR EQUIVALENT	120V IP 2
С	<u></u>	(1) 25W LED	LOBBY PENDANT FIXTURE	TO BE DETERMINED	120V IP 2
D	0	(I) I I W LED	LED RECESSED DOWNLIGHT	LITHONIA LDNG-35/10-L04-3500K -80CRI-MVOLT-EZ10	120V IP 2
DE	•	(I) I I W LED	LED RECESSED DOWNLIGHT WITH BATTERY BACKUP	LITHONIA LDN6-35/10-L04-3500K -80CRI-MVOLT-EZ10 -PS1055CP	120V IP 2
J		(I) 3W LED	COVE STRIP LIGHT	TO BE DETERMINED	120V IP 2
P		(1) 35W LED	EXTERIOR GRADE PENDANT LIGHT FIXTURE	BEACON, SRT I -EDGE-LIT-35UNV- PENDANT MOUNT OR EQUIVALENT	120V IP 2
54	Ю——	(1) 42W LED	4' LED STRIP PENDANT FIXTURE SUSPENDED FROM STRUCTURE	TO BE DETERMINED	120V IP 2
S4E	₩	(1) 42W LED	4' LED STRIP PENDANT FIXTURE SUSPENDED FROM STRUCTURE WITH BATTERY BACKUP	TO BE DETERMINED	120V IP 2
W		(1) 32W LED	EXTERIOR GRADE WALL SONCE	MATCH EXISTING	120V IP 2
WI		(I) 25W LED	LED WALL PACK	BEACON, RWL1-48L-25-UNV OR EQUIVALENT	120V IP 2
X	⊗	(I) 5W LED	THERMOPLASTIC EXIT SIGN WITH BACKUP BATTERY	LITHONIA LQM-S-W-3-R- I 20/277-EL-N	120V IP 2
XC	4 ₽ ►	(2) 1.5W LED	COMBINATION EXIT/EMERGENCY LIGHTING UNIT	LITHONIA LHQM-LED-R-HO	120V IP 2
XR	4,	(I) INCLUDED	REMOTE LAMP HEAD	LITHONIA ELA-QWP-LO309-SD	120V IP 2

FAULT	CURRE	INT SCH	IEDULE				
DEVICE	FAULT	AIC RATING	L-L VOLTS	L-N VOLTS		UTILITY	
					FAULT	Х	R
DSC-M	24,195	65,000	208V	120V	23,866	0.00474	0.001678
ATS	92,792	100,000	208V	120V	92,463	0.0009407	0.0008941
WIREWAY	70,002	100,000	208V	120V	69,672	0.001248	0.001187
DSC-A	51,783	65,000	208V	120V	51,453	0.001527	0.001763
А	28,730	35,000	208V	120V	28,399	0.002365	0.003502
DSC-B	45,592	65,000	208V	120V	45,462	0.001702	0.002018

Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION
Revisions

No.	Date	Description
		1 1211
-		





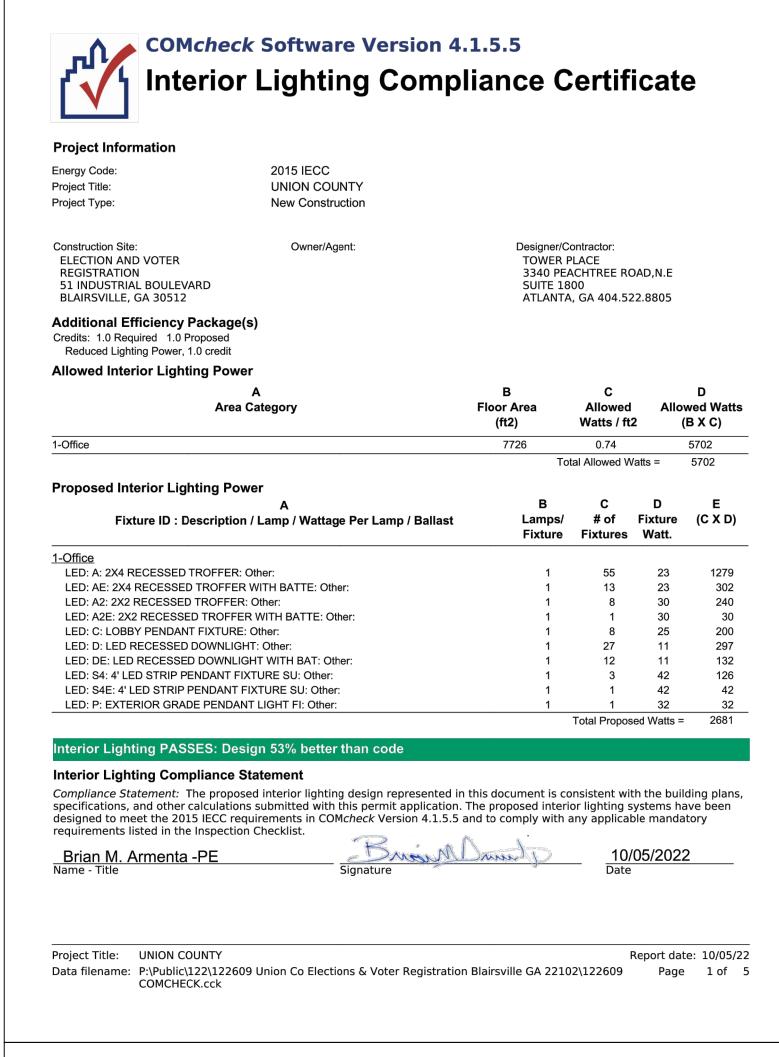
Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

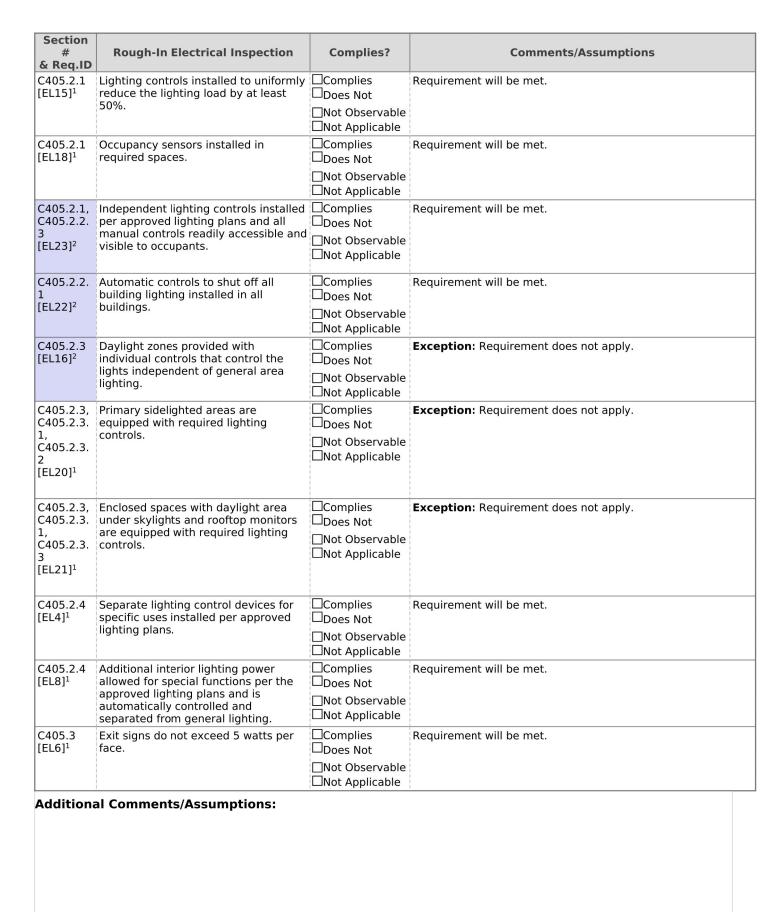
:22102

SHEET TITLE

ONE-LINE DIAGRAM AND SCHEDULES

SHEET NO.



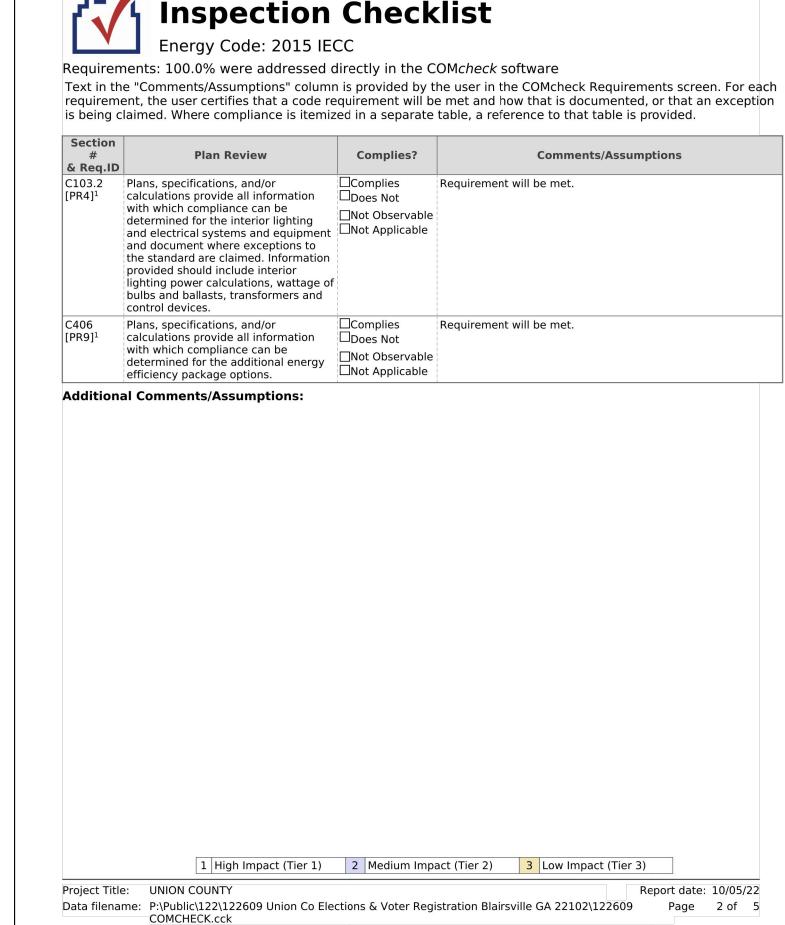


1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Data filename: P:\Public\122\122609 Union Co Elections & Voter Registration Blairsville GA 22102\122609 Page 3 of 5

Report date: 10/05/22

Project Title: UNION COUNTY



▲ COM*check* Software Version 4.1.5.5

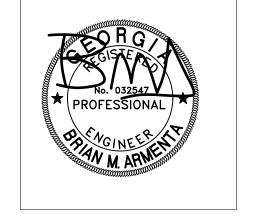
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Project Title: UNION COUNTY Report date: 10/05/22
Data filename: P:\Public\122\122609 Union Co Elections & Voter Registration Blairsville GA 22102\122609 Page 4 of 5 COMCHECK.cck

Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville, Georgia 30512

	RELEAS	ED FOR	CONSTRUCTION						
	Revisions								
No.	Date		Description						



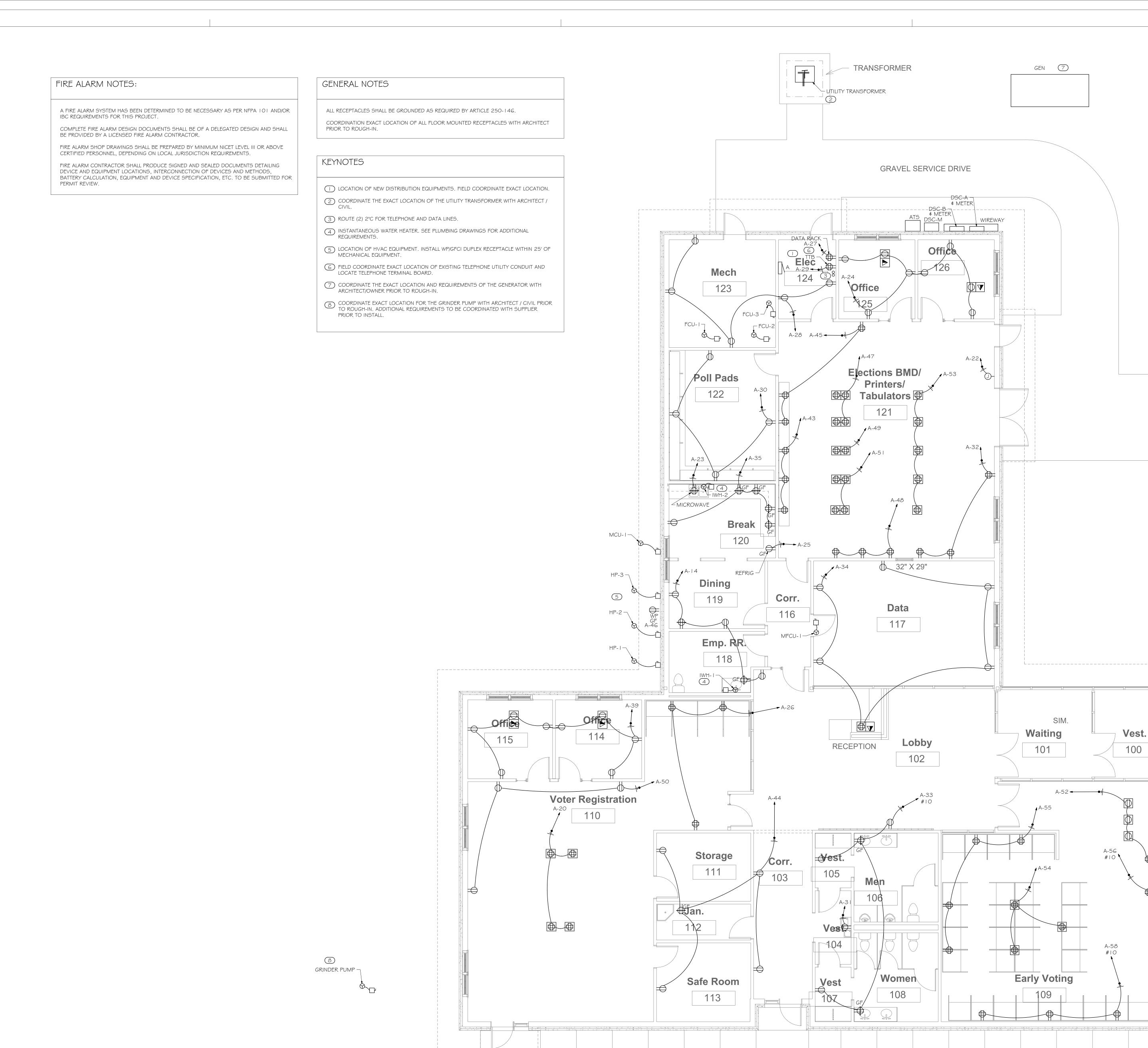


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PROJECT NO.

: SHEET TITLE : COMCHECK

SHEET NO.



Union County Elections and Voter Registration

51 Industrial Boulevard Blairsville, Georgia 30512

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Revisions

o. Date Description

No. 032547

PROFESSIONAL



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Atlanta, Georgia 30326
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: PROJECT NO. :22102

FLOOR PLAN - POWER

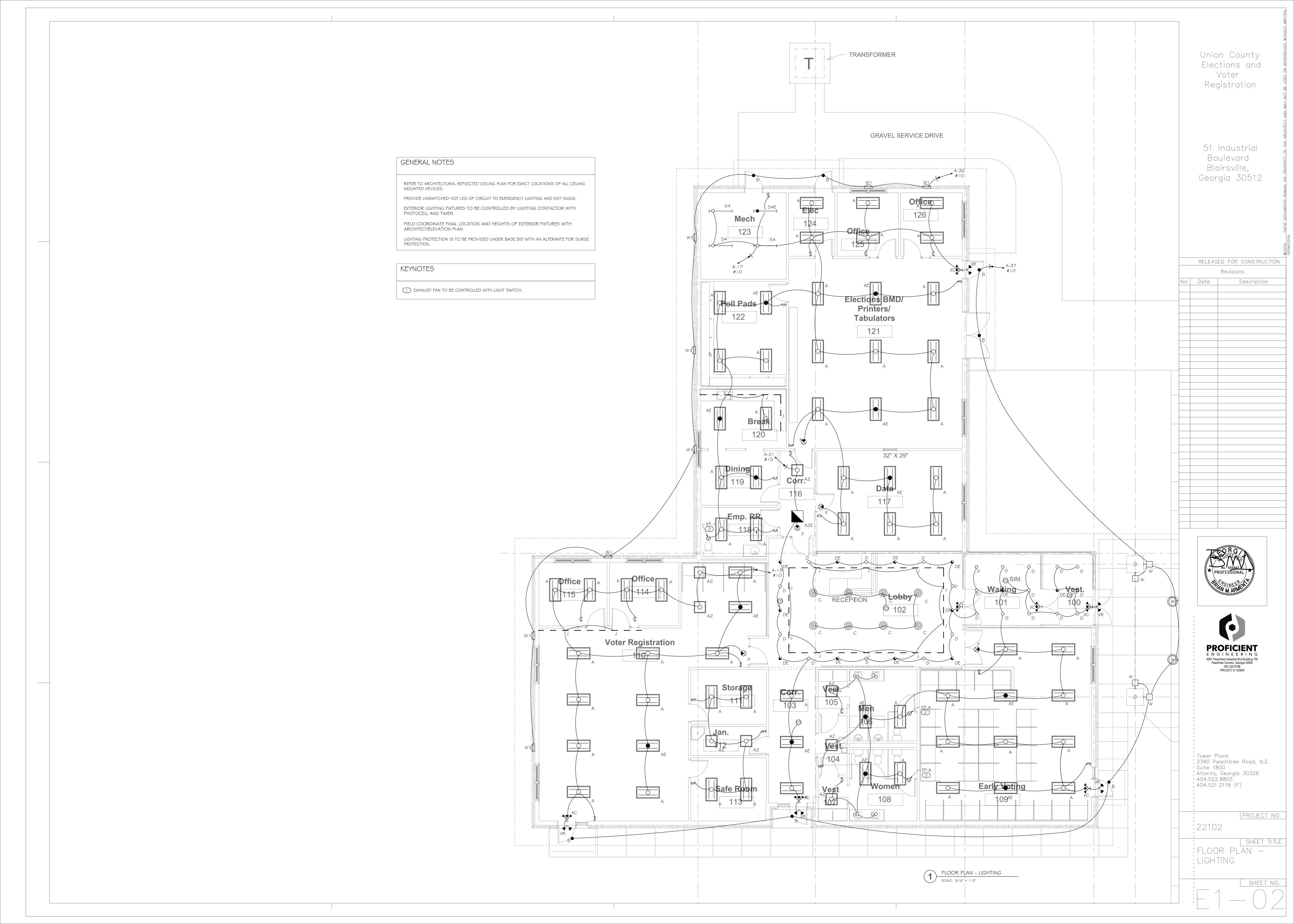
SCALE: 3/16" = 1'-0"

SHEET TITLE

FLOOR PLAN —

POWER

SHEET NO.



LEGEND	
	COLD WATER PIPE
	HOT WATER PIPE
	HOT WATER RETURN PIPE
s	SANITARY PIPE
	VENT PIPE
G	NATURAL GAS PIPE
	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
	PIPE CAP / PIPE CONTINUATION
	DIRECTIONAL FLOW ARROW
_55-	BALL VALVE / CHECK VALVE
	MIXING VALVE / PRESSURE REDUCING VALVE
 NA-CH-CH-CH	BACKFLOW PREVENTER ASSEMBLY
<u></u>	WALL HYDRANT / HOSE BIBB
	FLOOR DRAIN / FLOOR SINK
	WATER HAMMER ARRESTOR
<u>-</u> -₩—	GAS COCK / GAS SOLENOID VALVE
œ	P-TRAP
©c	HUB DRAIN
من	TRAP PRIMER
•	FLOOR CLEANOUT / GRADE CLEANOUT
⊗	VENT THROUGH ROOF
i 	PIPE CLEANOUT / WALL CLEANOUT

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	1000 BTU/HR		
BFP	BACKFLOW PREVENTER	MS	MOP SINK		
CD	CONDENSATE DRAIN	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		
Gl	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		

SPECIFICATIONS

APPLICABLE)

STANDARDS

BROUGHT ON BY THE USE OF THIS EQUIPMENT.

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 CONSIDERED.

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

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 🔏 PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 6 I O. I AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT

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 1" 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 18" 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 ERMIT (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).

FURNISH 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. SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST

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

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 21/4" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR

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.

MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

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

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 PIPING.

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.

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES 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 (4"/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.

SPECIFICATIONS

PRIMARY & EMERGENCY STORM 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.

JOINTS FOR HUBLESS CAST IRON SOIL PIPES AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE CISPI STANDARD 3 I O (LATEST EDITION) AND BE CERTIFIED BY NSF FOR COMPLIANCE TO CISPI 3 I O OR RECEIVE PRIOR APPROVAL OF THE ENGINEER. HUBLESS COUPLING GASKETS SHALL CONFORM TO ASTM STANDARD C564. NO-HUB COUPLINGS SHALL BE HEAVY DUTY TYPE BY MISSION. HUSKY, OR APPROVED EQUAL.

INSULATE ALL HORIZONTAL STORM PIPING RUN AT ROOF LEVEL OR ABOVE CEILINGS, BOTH PRIMARY AND SECONDARY, REGARDLESS OF MATERIAL, WITH MINIMUM I "THICK INSULATION. INSULATE ROOF RAIN BODIES AND VERTICAL DROPS FROM ROOF DRAIN TO HORIZONTAL PIPING.

EMERGENCY ROOF DRAINS SHALL BE PROVIDED WITH A 2" HIGH INLET EXTENSION OR WATER DAM. ADDITIONAL ELEVATION DIFFERENCE BETWEEN THE PRIMARY AND EMERGENCY INLETS DUE TO THE EMERGENCY ROOF DRAIN BEING LOCATED UP THE SLOPE OF THE ROOF IS ACCEPTABLE, AS LONG AS THE ELEVATION DIFFERENCE BETWEEN THE TWO INLETS DOES NOT EXCEED

STORM 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.

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 EQUAL.

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°- I 80°F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4/3" DIAL SIZE, O-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

INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO 1/4": I" THICK INSULATION. PIPE 1/2" OR LARGER: 1/2" 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": 1/2" THICK. PIPING I1/4" AND OVER: I" THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" 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.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.

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).

NATURAL GAS SYSTEMS AND ACCESSORIES
T IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE LOCAL GAS UTILITY PROVIDER TO CONFIRM THE AVAILABILITY OF

THE INDICATED DESIGN DELIVERY PRESSURE PRIOR TO COMMENCING WORK. ALL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE AND NFPA 54.

ABOVE GRADE GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL (ASTM A53/A53M). FITTINGS SHALL BE ASME B I 6.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE. JOINTS SHALL BE THREADED OR WELDED TO ASME

BELOW GRADE GAS PIPING SHALL BE FLEXIBLE POLYETHYLENE TUBING AND SHALL COMPLY WITH ASTM D25 | 3 AND CSA B | 37.4, AND SHALL BE INSTALLED IN ACCORDANCE WITH IFGC SECTION 402.11.2. PROVIDE MANUFACTURED RISER ASSEMBLY TO TRANSITION FROM TUBING TO ABOVEGROUND METALLIC PIPING.

SHUTOFF VALVES SHALL BE PROVIDED AND LOCATED IN PLACES SO AS TO PROVIDE ACCESS FOR OPERATION AND SHALL BE INSTALLED SO AS TO BE PROTECTED FROM DAMAGE.

ALL GAS FIRED APPLIANCES ARE PROVIDED WITH A GAS PRESSURE OF 7"W.C. AT FINAL EQUIPMENT CONNECTION. IF 7"W.C. EXCEEDS EQUIPMENT'S SPECIFIC INLET PRESSURE REQUIREMENT, CONTRACTOR SHALL PROVIDE APPROPRIATE PRESSURE REGULATING VALVE.

GAS PIPING ON ROOF SURFACES SHALL BE ELEVATED NO LESS THAN 31/8" INCHES ABOVE ROOF SURFACE AND SHALL BE CLAMPED TO RUBBER CHANNEL SUPPORTS (MIFAB C I O SERIES OR EQUAL). PROVIDE SUPPORT AT EVERY ELBOW. THE MAXIMUM SPACING OF SUPPORTS SHALL BE: ½" PIPE: 5'-0", ¾" TO 1¼" PIPING: 6'-0", 1½" AND LARGER: 12'-0". VERTICAL PIPING SHALL BE SUPPORTED AT BASE, TOP AND AT 10' INTERVALS (MINIMUM).

ALL EXTERIOR GAS PIPING ON ROOF SHALL BE PRIMED AND PAINTED O.S.H.A. YELLOW. GAS PIPING RUNNING ON EXTERIOR WALLS SHALL BE PRIMED AND PAINTED TO MATCH BUILDING WALL.

EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED 'GAS' IN BLACK LETTERS. ALL PIPING GREATER THAN 7"W.C. SERVICE PRESSURE SHALL BE IDENTIFIED BY A YELLOW LABEL WITH BLACK LETTERS INDICATING THE PIPING SYSTEM PRESSURE. THE SYSTEM SHALL BE MARKED AT THE BEGINNING, ALL ENDS AND AT INTERVALS NOT EXCEEDING 5 FEET ALONG ITS

BALL VALVES: THREE PIECE BODY, FULL PORT, CHROME PLATED BALL, BLOWOUT PROOF STEM, TFE SEATS, UL LISTED FOR FLAMMABLE LIQUIDS, 600 PSI WOG, THREADED ENDS.

PRESSURE REGULATOR VALVE: SINGLE STAGE AND SUITABLE FOR NATURAL GAS, STEEL JACKET AND CORROSION RESISTANT COMPONENTS, THREADED FOR REGULATORS NPS 2 AND SMALLER. PROVIDE SHUTOFF VALVE IMMEDIATELY AHEAD OF REGULATOR, AND INSTALL TEST PORTS ON EITHER SIDE REGULATOR, WITH UPSTREAM TEST PORT DOWNSTREAM OF SHUTOFF VALVE. REGULATORS SHALL BE INSTALLED PER IFGC SECTION 410. FOR 2PSI INLET, PROVIDE MAXITROL '325-L' SERIES. PROVIDE VENT PROTECTOR FOR EXTERIOR APPLICATIONS. FOR INTERIOR APPLICATIONS, VENT SHALL BE PIPED TO THE EXTERIOR WITH TURNDOWN AND SCREEN PROTECTOR (REGULATOR EQUIPPED WITH FACTORY PROVIDED VENT LIMITER IS ACCEPTABLE WHERE APPROVED BY THE LOCAL JURISDICTION).

SHUTOFF VALVES SHALL BE PROVIDED IN ACCORDANCE WITH IFGC 409. INSTALL MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE AHEAD OF CORRUGATED STAINLESS STEEL TUBING OR COPPER CONNECTOR. SHUTOFF SHALL BE WITHIN 6' OF

INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF

ALL GAS PIPING INSTALLED BENEATH THE BUILDING SLAB SHALL BE ENCASED IN WROUGHT IRON CONDUIT. PIPING SHALL BE PROTECTED AND INSTALLED ACCORDING TO THE INTERNATIONAL FUEL GAS CODE SECTION 404.14.

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 CONCRETE PAD, AS

WATER HEATERS SHALL BE U.L. LISTED AND SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF U.S. DEPT. OF

WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.

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

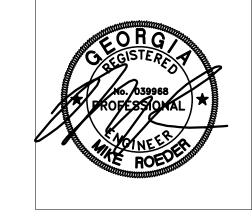
Union County

RELEASED FOR CONSTRUCTION

Description

Revisions

o.| Date





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

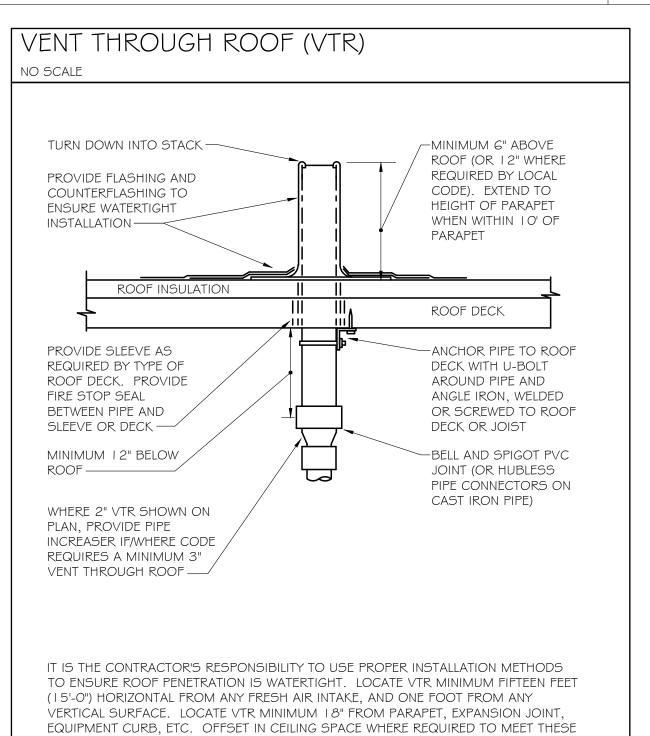
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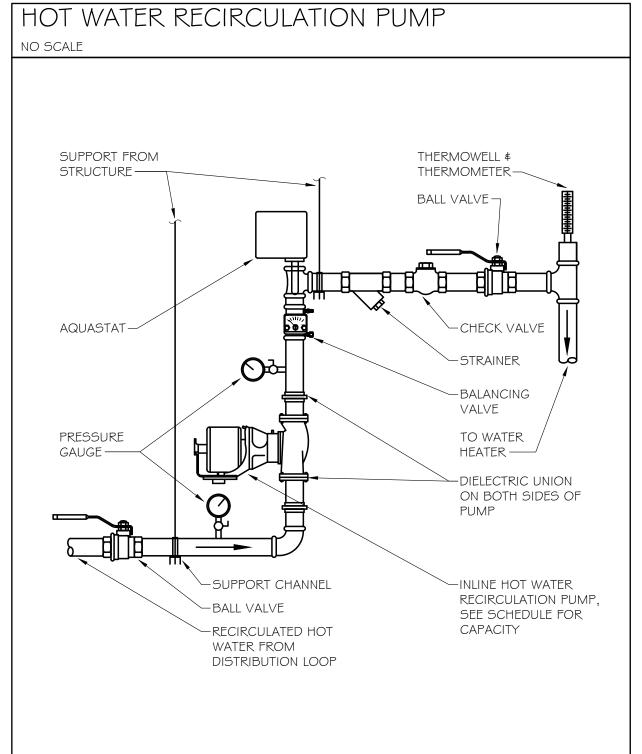
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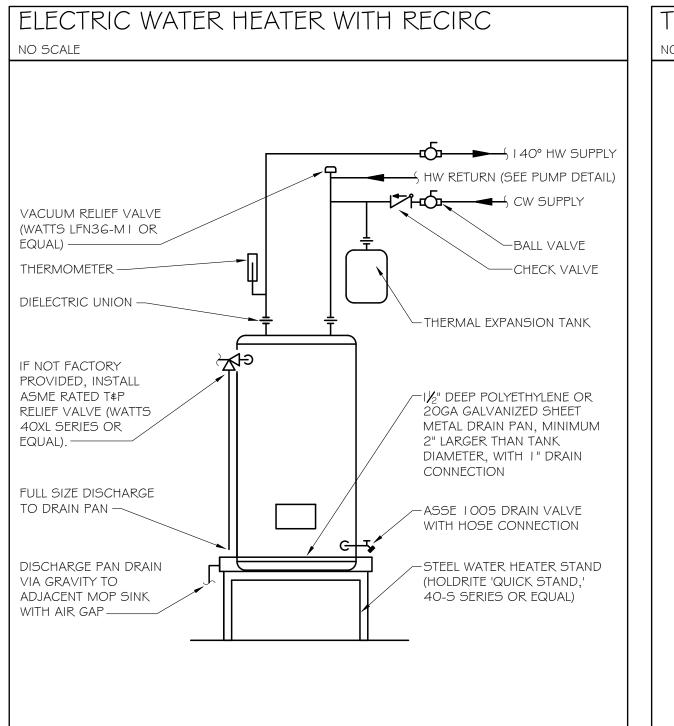


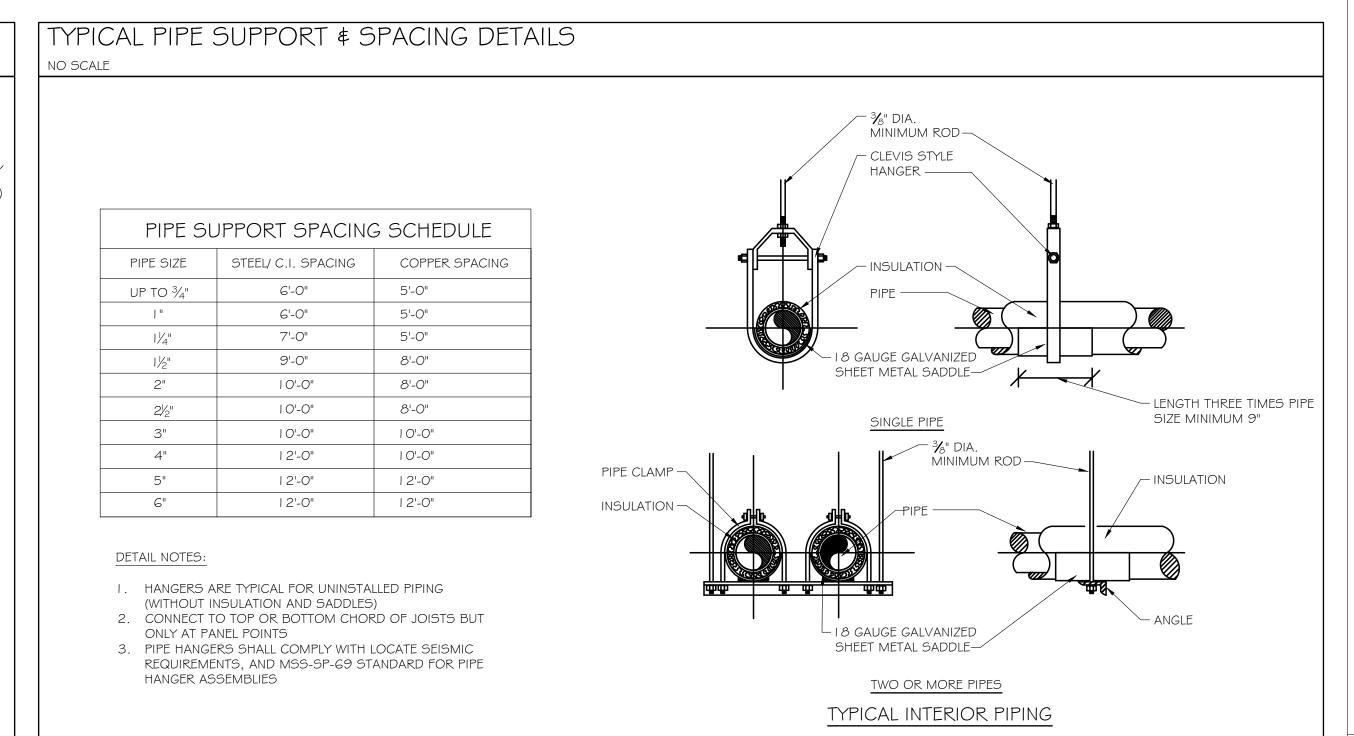


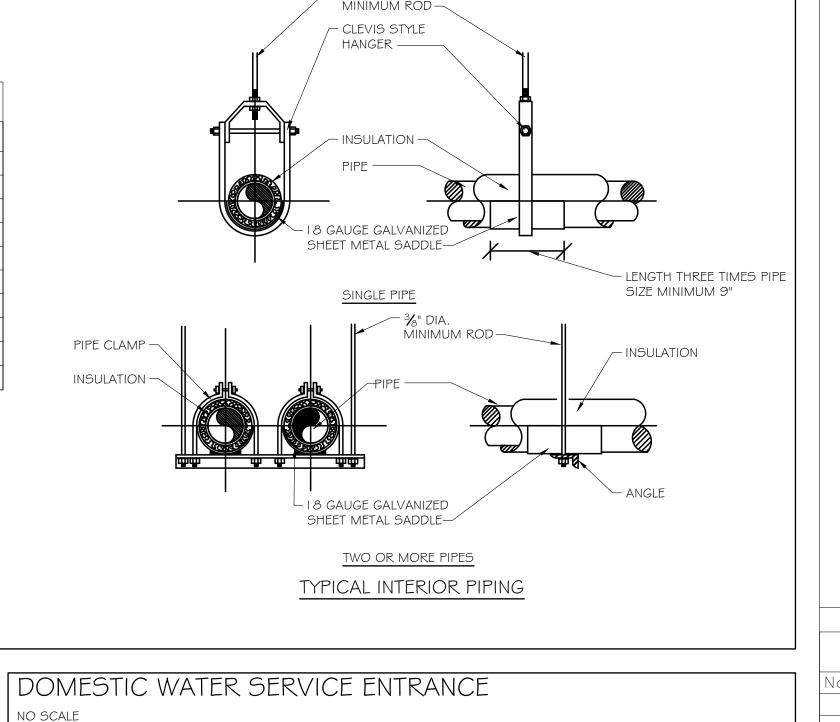


CONDITIONS.





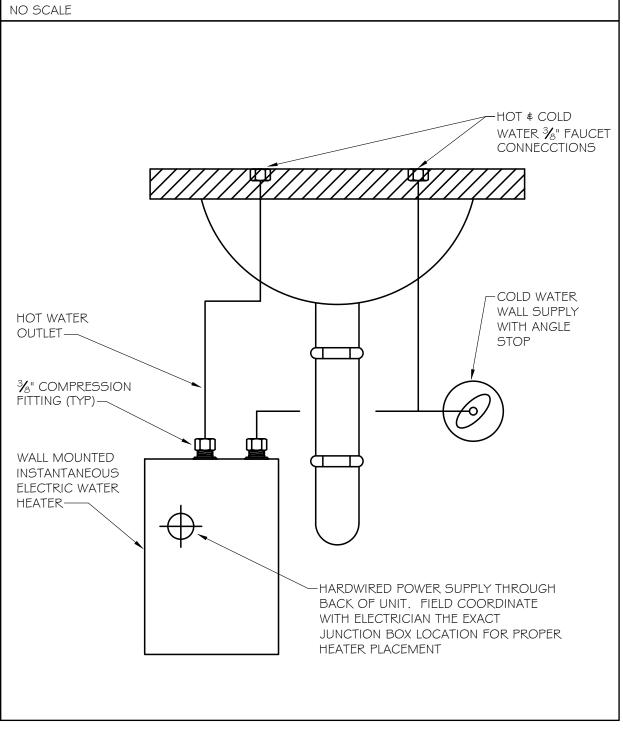




					WATER RUNOUT		WATER CONN.		
MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	CW	HW	CW	HW	SPECIFICATION
L- I	LAVATORY (ADA) - DROP IN, SELF- RIMMING	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	DROP IN LAVATORY (AMERICAN STANDARD "AQUALYN," 0476.028). PROVIDE 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (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 070.
WC-1	WATER CLOSET - WALL MOUNT W/FLUSH VALVE	4"	3"	2"	1-1/4"		1 "		WALL MOUNTED, FLUSH VALVE WATER CLOSET (AMERICAN STANDARD "AFWALL FLOWISE," 2257.001), 1.28 GPF, WHITE VITREOUS CHINA. TOP OF RIM AT 15" AFF. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100). PROVIDE EXPOSED WATER CLOSET FLUSHOMETER. CHROME PLATED, 1.28 GPF (SLOAN 111-128).
WC-2	WATER CLOSET (ADA) - WALL MOUNT W/FLUSH VALVE	4"	3"	2"	1-1/4"		l u		WALL MOUNTED, ADA FLUSH VALVE WATER CLOSET (AMERICAN STANDARD "AFWALL FLOWISE," 2257.001), 1.28 GPF, WHITE VITREOUS CHINA. TOP OF RIM AT 16 1/2" AFF. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100) PROVIDE EXPOSED WATER CLOSET FLUSHOMETER, CHROME PLATED, 1.28 GPF (SLOAN 11 28). FLUSH CONTROL MUST BE LOCATED ON OPEN SIDE OF WATER CLOSET.
WC-3	WATER CLOSET (ADA) - FLOOR MOUNT W/FLUSH VALVE	4"	3"	2"	l - I /4"		J "		FLOOR MOUNTED, ADA FLUSH VALVE WATER CLOSET (AMERICAN STANDARD "MADERA FLOWISE," 3043.001), 1.28 GPF, WHITE VITREOUS CHINA. TOP OF RIM AT 16 1/2" AFF. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100) PROVIDE EXPOSED WATER CLOSET FLUSHOMETER, CHROME PLATED, 1.28 GPF (SLOAN 11 128). FLUSH CONTROL MUST BE LOCATED ON OPEN SIDE OF WATER CLOSET.
UR-1	URINAL - HIGH EFFICIENCY, WALL MOUNTED W/FLUSH VALVE	2"	2"	2"	1 "		3/4"		WALL MOUNTED, FLUSH VALVE URINAL (AMERICAN STANDARD "WASHBROOK," 6590.001), 0.5 GPF, WHITE VITREOUS CHINA. HIGH EFFICIENCY "WATERSENSE" LISTED. PROVIDE ZURN 1222 SUPPORT SYSTEM. COORDINATE MOUNTING HEIGHT(S) AND ADA DESIGNATIONS WIT ARCHITECTURAL DRAWINGS. PROVIDE CHROME PLATED URINAL FLUSHOMETER, 0.5 GPF (AMERICAN STANDARD "FLOWISE" 6045.051.002).
EWC-1	WATER COOLER (ADA) - BI-LEVEL, WITH BOTTLE FILLER	2"	1 1/2"	2"	1/2"		1/2"		BI-LEVEL ADA WATER COOLER WITH BOTTLE FILLING STATION, INTEGRAL WATER FILTER \$ VISUAL DISPLAY TO INDICATE FILTER STATUS (ELKAY 'EZH2O' LZSTL&WSLP). ORIFICES AT 3& 3/8" AND 32 7/8" AFF. 8.0 GPH OF 50DEG WATER @ 80DEG INLET TEMP. PROVIDE ACCESSORY APRON (LKAPREZL) IF INSTALLED ON AN EXPOSED WALL FOR CANE DETECTION. MOUNT WITH WALL CARRIER (ZURN 225-BL).
SK-I	STAINLESS SINK, UNDERMOUNT, DOUBLE-BOWL (ADA)	2"	1/2"	2"	1/2"	1/2"	3/8"	3/8"	STAINLESS STEEL DOUBLE BOWL UNDERMOUNT SINK (ELKAY ELUHAD32 655PD), BOWL DIMENSIONS: 4" L, 4" W, 5.5" D. ADA COMPLIANT .5 GPM FAUCET WITH PULL-OUT SPRAY (ELKAY LK5000), SINGLE HOLE MOUNTING (LESS ESCUTCHEON PLATE). MCGUIRE CHROME PLATED P-TRAP W/C.O., CHROME PLATED BRASS ANGLE SUPPLY STOPS, 2" LONG 3/8" FLEX SUPPLIES. PROVIDE BASKET STRAINERS (ZURN 2874 -SS).
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 HOSI AND BRACKET (832-AA), MOP HANGER (889-CC), STAINLESS STEEL BUMPERGUARD (E-88-AA) AND STAINLESS STEEL WALL GUARD (MSG2424).
FD-1	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"					GENERAL PURPOSE FLOOR DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABL STRAINER HEAD \$ 5" ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 072 TRAP SEALER (ZURN Z 072).
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 Z1072). FLOOR CLEANOUT WITH CAST IRON BODY AND ADJUSTABLE NICKEL BRONZE TOP (J.R. SMI
FCO	FLOOR CLEANOUT	see plan	see plan						403 I). CLEANOUT SIZE SHALL MATCH LINE SIZE.
MV- I	MIXING VALVE (POINT OF USE)				1/2"	1/2"	3/8"	3/8"	POINT-OF-USE THERMOSTATIC MIXING VALVE (LEONARD #170-LF) WITH INTEGRAL INLET CHECK VALVES, TEMPERATURE ADJUSTMENT KNOB WITH LOCK SCREW, LEAD FREE. ASSE STANDARD 1070. MINIMUM FLOW 0.25 GPM, 5 PSI DROP @ 1.7 GPM.
WHA-X	WATER HAMMER ARRESTOR				see plan		see plan		WATER HAMMER ARRESTOR, ASSE 1010 (J.R. SMITH SERIES 5005-5050), 'X' IN 'WHA-X' REFERS TO PDI SIZE INDICATED ON DRAWINGS.
ET- I	POTABLE WATER EXPANSION TANK				3/4"		3/4"		LEAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLT-5). 2.1 GALLONS TOTAL VOLUMO.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).
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 #385xx/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).
DSB-1	DOWNSPOUT BOOT								ANGULAR OFFSET CAST IRON DOWNSPOUT BOOT WITH SIDE CLEANOUT (J.R. HOE AND SON A-SERIES) OR APPROVED EQUAL. PROVIDE STAINLESS STEEL FERRULES WHEN ATTACHING A NON-MASONRY WALL SURFACE. REFER TO PLANS FOR SIZE.
AAV- I	AIR ADMITTANCE VALVE			see plan					STUDOR "MINI VENT", MODEL 2030 OR "MAXI VENT", MODEL 20302, IN ACCORDANCE WIT

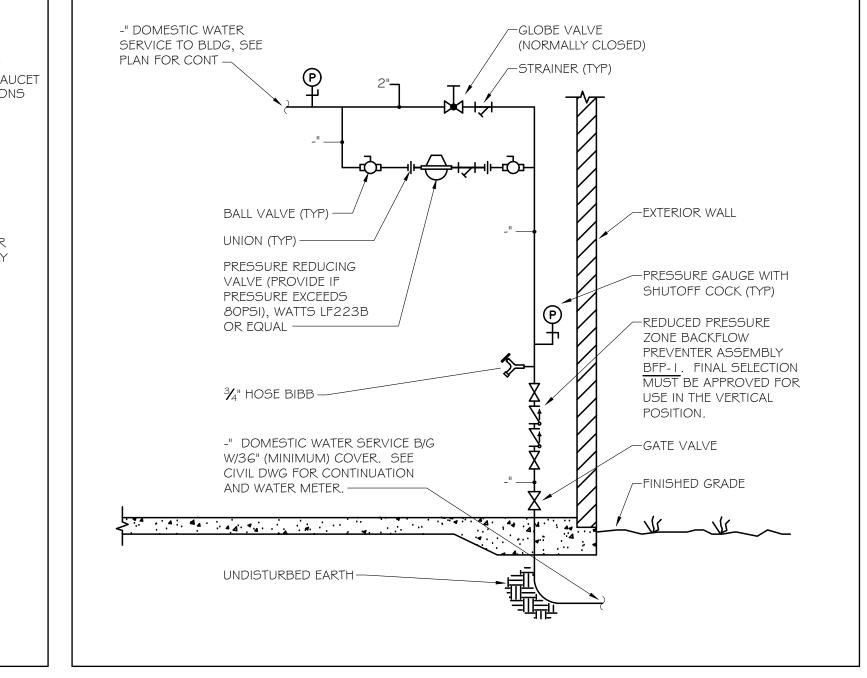
ELECTRIC WATER HEATER SCHEDULE								
MARK TANK CAPACITY RECOVERY SETPOINT ELECTRICAL BASIS TYPE								
WH-I 40 GAL 51 GPH @ 80° RISE 120° 10.0 KW A.O. SMITH DEN-40 TALL								
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.								

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				
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED PUMP. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS. CONTRACTOR SHALL INSTALL BALANCING VALVE AND SHALL ADJUST AS NEEDED TO ENSURE PUMP FLOW DOES NOT EXCEED 5 GPM								



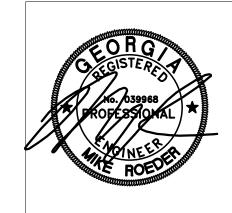
INSTANTANEOUS WATER HEATER SCHEDULE

POINT OF USE WATER HEATER



MARK	HEATING	ACTIVATION FLOW	SETPOINT	ELECTRICAL INPUT	BASIS	NOTES
IWH-I	56° RISE @ 0.5GPM	.35 GPM	110°F	4.1 KW	CHRONOMITE M-20L/ 208	MICROPROCESSOR CONTROLLED TEMPERATURE SETPOINT
IWH-I	45° RISE @ 1.5 GPM	.35 GPM	120°F	10.0 KW	CHRONOMITE R-48L/ 208	MICROPROCESSOR CONTROLLED TEMPERATURE SETPOINT

PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS. PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL CONFIRM THAT HAND SINK OR LAVATORY FAUCETS TO BE SERVED BY THIS WATER HEATER IS EQUIPPED WITH A 0.5 GPM AERATOR



Union County

Elections and

Voter

Registration

51 Industrial

Boulevard

Blairsville,

Georgia 30512

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Description

Revisions

o. Date



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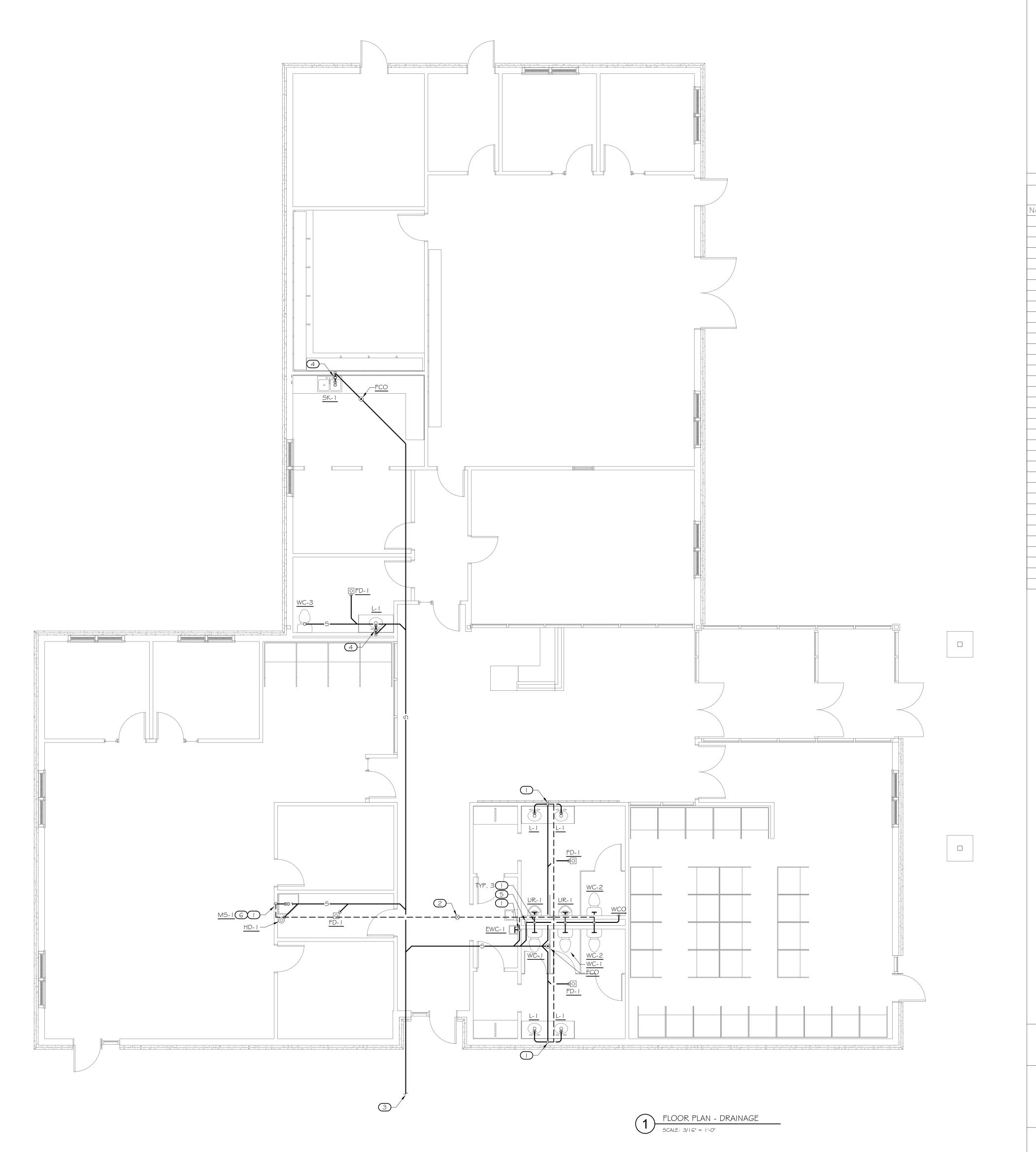
:22102 SHEET TITLE :SCHEDULES &

: DETAILS

SHEET NO.



WASTEVENT ISOMETRIC NOSCALE PART OF THE



Union County Elections and Voter Registration

KEYNOTES

2" V DN 2 3" V UP TO 3" VTR

3 4" 5 B/G, SEE CIVIL DWG FOR CONT
4 2" VENT TO AIR ADMITTANCE VALVE AAV-1 UNDER COUNTER
5 4" 5 DN
6 DISCHARGE WATER HEATER PAN DRAIN TO HUB DRAIN WITH AIR GAP

51 Industrial Boulevard Blairsville, Georgia 30512

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Tower Place
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PROJECT NO.

:22102

: SHEET TITLE : FLOOR PLAN — : DRAINAGE

SHEET NO.



