UNION COUNTY NEW GYM 519 Industrial Boulevard

Blairsville, Georgia 30512

Boulevard Blairsville PROJECT TEAM GENERAL NOTES INDEX OF DRAWINGS REV Georgia 3051 SHEET NO. SHEET DESCRIPTION DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO EXECUTION OF THE WORK IN QUESTION. OWNER COVER SHEET 04/10/23 07/31/23 ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE UNLESS CLEARLY SHOWN OR NOTED OTHERWISE **UNION COUNTY** 07/31/23 LIFE SAFETY PLAN 04/10/23 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. 04/07/23 EXISTING SITE CONDITIONS AND DEMOLITION PLAN EMAIL: VCMANAGER@UNIONCON.COM 04/07/23 SITE LAYOUT AND UTILITY PLAN ALL VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUIT, AND SIMILAR ASSEMBLIES IN FINISHED ROOMS SHALL BE ENCLOSED IN A FINISHED CHASE. THE MATERIALS AND FINISHES OF SUCH 04/07/23 GRADING PLAN AND EROSION CONTROL PLAN CHASES SHALL MATCH ADJACENT FINISHED WALLS. ARCHITECT CONSTRUCTION DETAILS 04/07/23 FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL FOUIPMENT MAY BE REQUIRED. GARDNER, SPENCER, SMITH, TENCH, & JARBEAU 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. 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 GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION (TOILETS, SHOWERS, JANITORS CLOSET, ETC.) SHALL BE MOISTURE RESISTANT TYPE. PHONE: 404-522-8805 MOBILE: 404-281-5251 **ARCHITECTURAL** 04/10/23 ALL GYPSUM WALL BOARD MATERIAL IN FIRE RATED ASSEMBLIES SHALL BE FIRE RESISTIVE UL CLASSIFIED MATERIAL APPLIED IN STRICT COMPLIANCE TO THE APPLICABLE FIRE TEST DESIGN WITH JOINTS ON OPPOSITE WALL FACES STAGGERED, FASTENERS SHALL BE OF APPROVED TYPE AND INSTALLED IN ACCORDANCE WITH APPLICABLE FIRE TEST, ALL WALLBOARD JOINTS IN ALL 4 07/31/23 04/10/23 PARTITION TYPES 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. FLOOR PLAN & ROOF PLAN 04/10/23 | 05/26/23 | 06/19/23 07/31/23 GOODMAN GIANNAVOLA HINES ENGINEERS 07/31/23 REFLECTED CEILING & DIMENSION PLAN 04/10/23 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 **ENLARGED PLANS & ELEVATIONS** 04/10/23 07/31/23 INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS. **ENLARGED PLANS & ELEVATIONS** 04/10/23 07/31/23 ATLANTA, GA 30318 12. ALL ATTACHMENTS, SCREWS AND BOLTS BETWEEN STRUCTURAL STEEL AND TREATED WOOD, BLOCKING AND NAILERS SHALL BE GALVANIZED 07/31/23 ENLARGED ENTRANCE PLAN CONTACT: MICHAEL GIANNAVOLA, P.E., S.E., LEED AP 04/10/23 **EXTERIOR ELEVATIONS** 06/19/23 13. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, ETC. PER MFG. RECOMMENDATION. EMAIL: MIKE@GGHENGINEERS.COM **EXTERIOR ELEVATIONS** 04/10/23 06/19/23 07/31/23 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 BUILDING SECTIONS 07/31/23 OVERALL SCOPE AS WELL AS COMPLETE DETAILS OF WORK TO BE PERFORMED. ALL FABRICATION SHALL BE BASED ON ACTUAL FIELD DIMENSIONS. 04/10/23 WALL SECTIONS 06/19/23 MECHANICAL ENGINEER 04/10/23 06/19/23 07/31/23 WALL SECTIONS 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. FRONT PORCH SECTION 04/10/23 07/31/23 06/19/23 PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD 07/31/23 04/10/23 WALL SECTIONS 06/19/23 16. VISIT THE JOB SITE AND CHECK ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A PRICE FOR PERFORMING ANY WORK. 04/10/23 | 05/26/23 | 06/19/23 DETAILS PEACHTREE CORNERS, GA 30092 DETAILS 07/31/23 CONTRACTOR TO VERIFY WITH THE OWNER AND/OR OWNER'S REPRESENTATIVES ALL PLUMBING AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT PROVIDED BY THE OWNER. DOOR SCHEDULE & ELEVATIONS 04/10/23 05/26/23 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. DOOR HEAD, JAMB, & SILL DETAILS 04/10/23 07/31/23 CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION. EMAIL: JEN@PROFICIENTENGINEERING.COM FINISH PLAN 07/31/23 PHONE: 404.850.4622 CASEWORK DETAILS 04/10/23 ELECTRICAL ENGINEER PROFICIENT ENGINEERING, INC. 6991 PEACHTREE INDUSTRIAL BLVD **STRUCTURAL** PROJECT INFORMATION PROJECT NOTES/ APPLICABLE CODES **BLDG 700** PEACHTREE CORNERS, GA 30092 04/10/23 07/31/23 GENERAL NOTES CONTACT: BRIAN M. ARMENTA, P.E. SPECIAL INSPECTIONS 04/10/23 07/31/23 **EXISTING BUILDING:** EMAIL: BRIAN@PROFICIENTENGINEERING.COM FOUNDATION AND ROOF FRAMING PLANS 04/10/23 07/31/23 INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION WITH GA AMENDMENTS. PHONE: 404.394.1147 OCCUPANCY CLASSIFICATION 04/10/23 | 07/31/23 ROOF FRAMING PLANS OCCUPANCY GROUP: ASSEMBLY (A-3), - IBC 2018 NATIONAL ELECTRIC CODE (NEC): 2020 EDITION 04/10/23 07/31/23 FOUNDATION SECTIONS ASSEMBLY - NFPA 101 2018 PLUMBING ENGINEER SECTIONS AND DETAILS 04/10/23 | 07/31/23 INTERNATIONAL FUEL GAS CODE (IFGC): 2018 EDITION WITH GA AMENDMENT. SECTIONS AND DETAILS 04/10/23 07/31/23 PROFICIENT ENGINEERING, INC. INTERNATIONAL MECHANICAL CODE (IMC): 2018 EDITION WITH GA AMENDMENTS 07/31/23 SECTIONS AND DETAILS 6991 PEACHTREE INDUSTRIAL BLVD OCCUPANCY LOAD: **BLDG 700** INTERNATIONAL PLUMBING CODE (IPC): 2018 EDITION WITH GA AMENDMENTS PEACHTREE CORNERS, GA 30092 INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2015 EDITION WITH GA SUPPLEMENTS CONSTRUCTION CLASSIFICATION AND AMENDMENTS CONTACT: JENNIFER DUCHAC, P.E. TYPE OF CONSTRUCTION TYPE II-B, IBC 2018, TYPE II(000), NFPA 220 2018 EMAIL: JEN@PROFICIENTENGINEERING.COM INTERNATIONAL FIRE CODE (IFC): 2018 EDITION SPRINKLERED (YES OR NO) YES PHONE: 404.850.4622 **MECHANICAL** GEORGIA ACCESSIBILITY CODE - GAC 120-3-20 - 2015 EDITION 04/10/23 **BUILDING AREA** NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC): 2018 EDITION SCHEDULES 04/10/23 FIRST FLOOR 10,459 SF FLOOR PLAN 04/10/23 U.S. DEPT. OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA): 2010 EDITION EXTERIOR CANOPY AREA 718 SF CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE STANDARDS IN GA TOTAL AREA (SQ.FT.) 11,177 SF **BUILDING HEIGHT** NUMBER OF STORIES: VICINITY MAP BUILDING HEIGHT (FT.): SCOPE OF BUILDING PERMIT - [X] APPLICABLE BOX PLUMBING FIXTURE DISTRIBUTION PER I.P.C. MINIMUM PLUMBING FIXTURE REQUIREMENTS OF PEOPLE PER FLOOR W.C. 299 FEMALE **ELECTRICAL** 04/10/23 SCHEDULES 04/10/23 **COMPLIANCE REPORT** 04/10/23 <u>DRINKING FOUNTAIN DISTRIBUTION MINIMUM REQUIREMENTS</u> 04/10/23 FLOOR PLAN - POWER INTERNATIONAL PLUMBING CODE REQUIRES: 1 FOUNTAIN PER 100 PEOPLE FOR BUSINESS OCCUPANCY 04/10/23 FLOOR PLAN - LIGHTING TOTAL = 2 REQUIRED / 2 FOUNTAINS PROVIDED SERVICE SINKS: 1 REQUIRED / 1 PROVIDED PROJECT DESCRIPTION CONSTRUCTION OF A NEW GYM CONNECTED TO EXISTING UNION COUNTY RECREATION www.gsstj.com Tower Place 3340 Peachtree Road, SYMBOLS LEGEND Suite 1800 Atlanta, Georgia 30326 04/10/23 404.522.8805 404.521.2118 (F) SCHEDULES & DETAILS 04/10/23 SECTION SYMBOL ELEVATION SYMBOL OVERALL FLOOR PLAN 04/10/23 **ENLARGED PLANS** 04/10/23 1 NOTES A EXTERIOR WINDOW TYPE ENLARGED PLAN / DETAIL TOILET ACCESSORY Cover Sheet **REVISIONS SYMBOL**

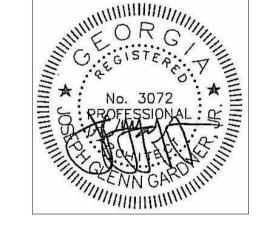
INTERIOR ELEVATION SYMBOL

(1)———— COLUMN LINE

Gymnasium for **Union County**

519 Industrial

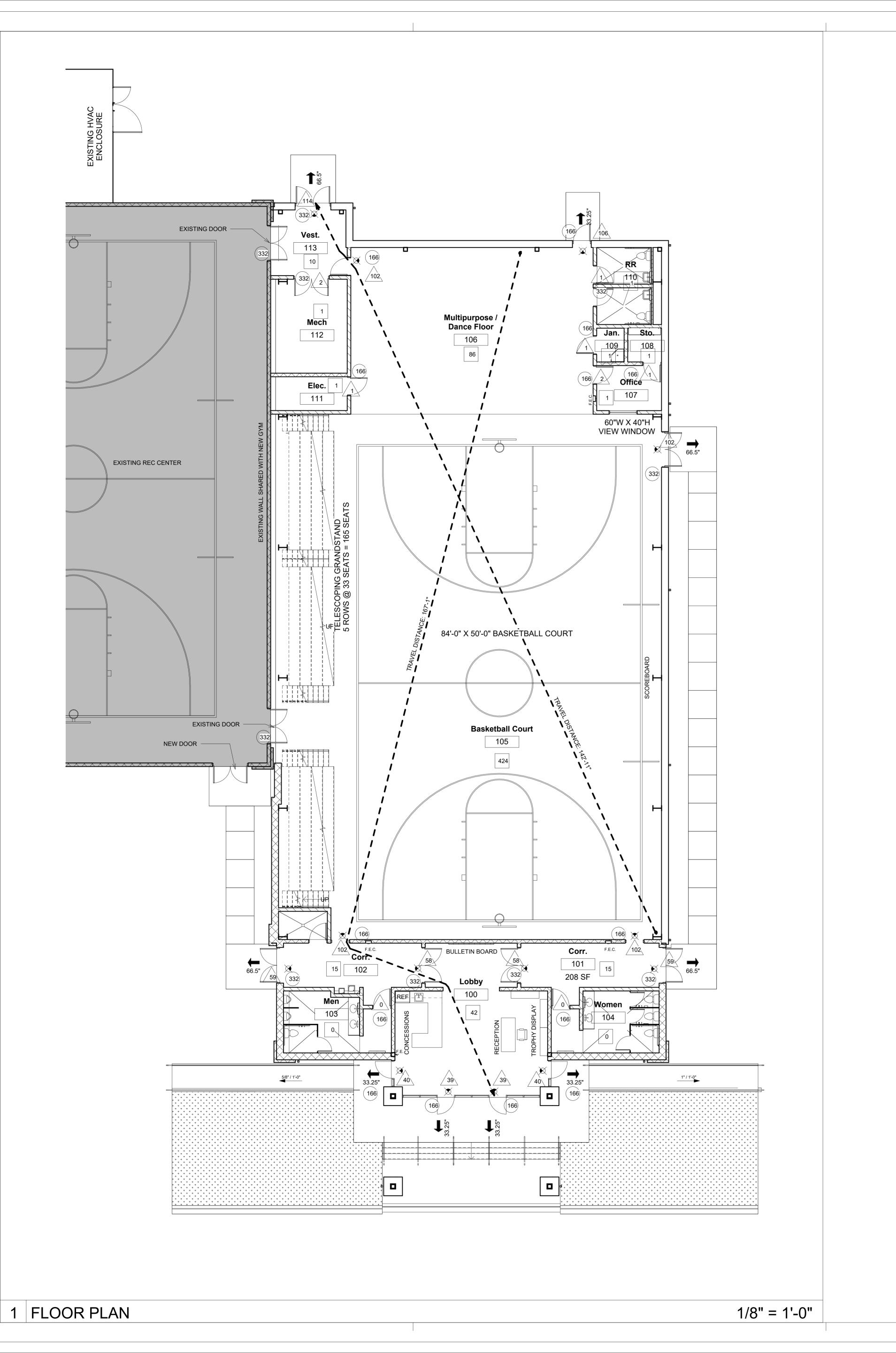
RELEASED FOR CONSTRUCTION Revisions Description Issued for Bid V.E. Revisions



A Professional Corporation of Architecture of Architecture

PROJECT

TITLE



ONE HOUR RATED PARTITION TO STRUCTURE

SINGLE FACED EXIT SIGN

DOUBLE FACED EXIT SIGN WITH ARROWS

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

F.E. WALL MOUNTED FIRE EXTINGUISHER

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

X DOOR CAPACITY
X ROOM OCCUPANT LOAD

NUMBER OF OCCUPANTS USING EXIT DOOR

TOTAL EXIT WIDTH REQUIRED: 596 OCCUPANTS X 0.2" PER

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

Occupancy Chart Occupant No. Load Factor Occupants Number Occupancy ASSEMBLY 636 SF ASSEMBLY 208 SF 14 ASSEMBLY 213 SF 15 184 SF 190 SF ASSEMBLY 6309 SF Multipurpose / Dance Floor ASSEMBLY 1271 SF 85 BUSINESS 92 SF 108 STORAGE 36 SF 300 109 110 STORAGE 29 SF 300 STORAGE 63 SF RR 300 STORAGE 76 SF 300 STORAGE 212 SF ASSEMBLY 157 SF 114 RR Mech Clo. N/A 63 SF STORAGE 43 SF 300

Total Occupants

New Gymnasium for Union County

519 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

Revisions

No. Date Description

04/10/23 Issued for Bid

4 07/31/23 V.E. Revisions

No. 3072

No. 3072

PROFESSIONAL: CE

WARREN

ON GARMINIM

Gardner
Spencer
Smith
Tench &
Jarbeau

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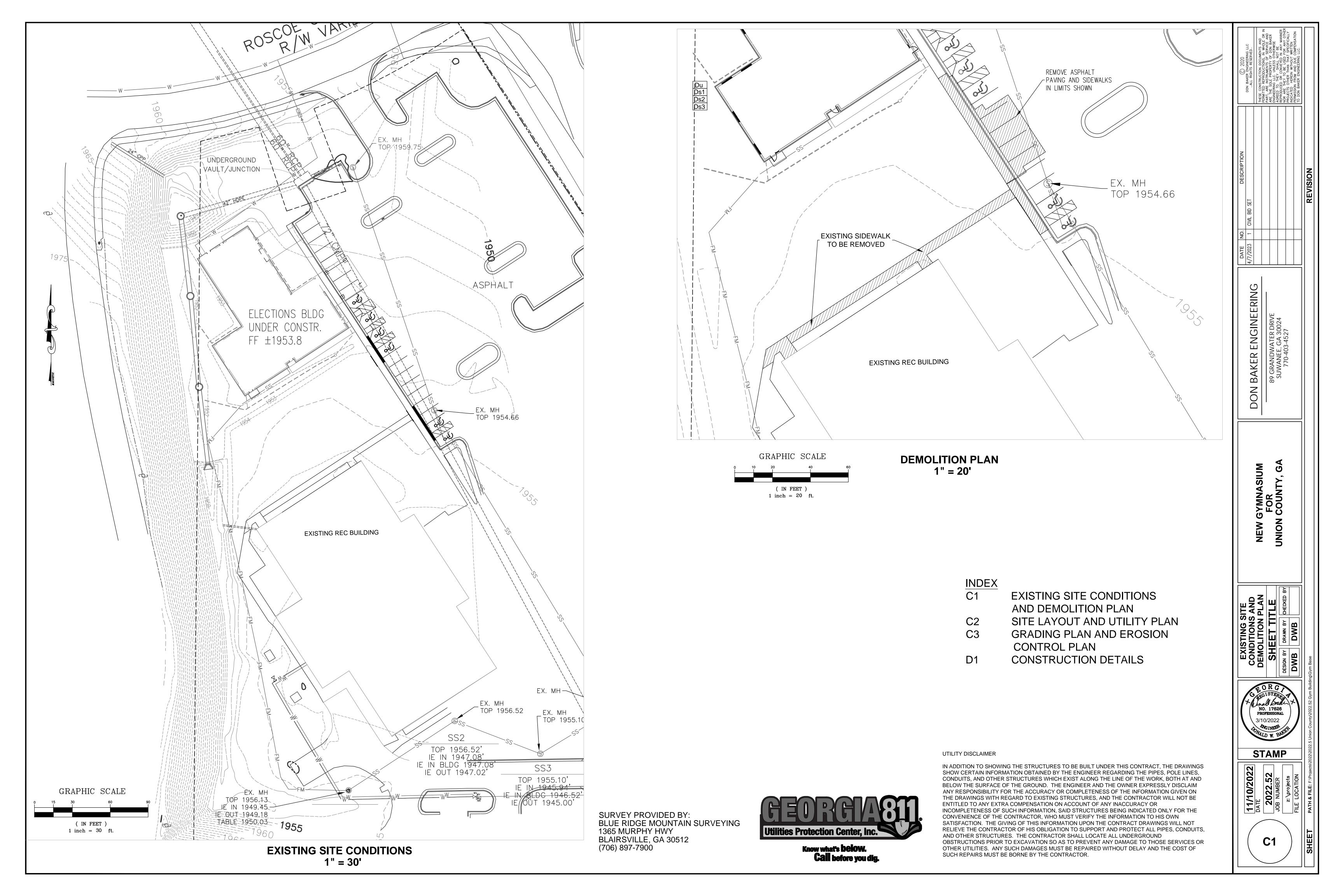
Tower Place
3340 Peachtree Road,
N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

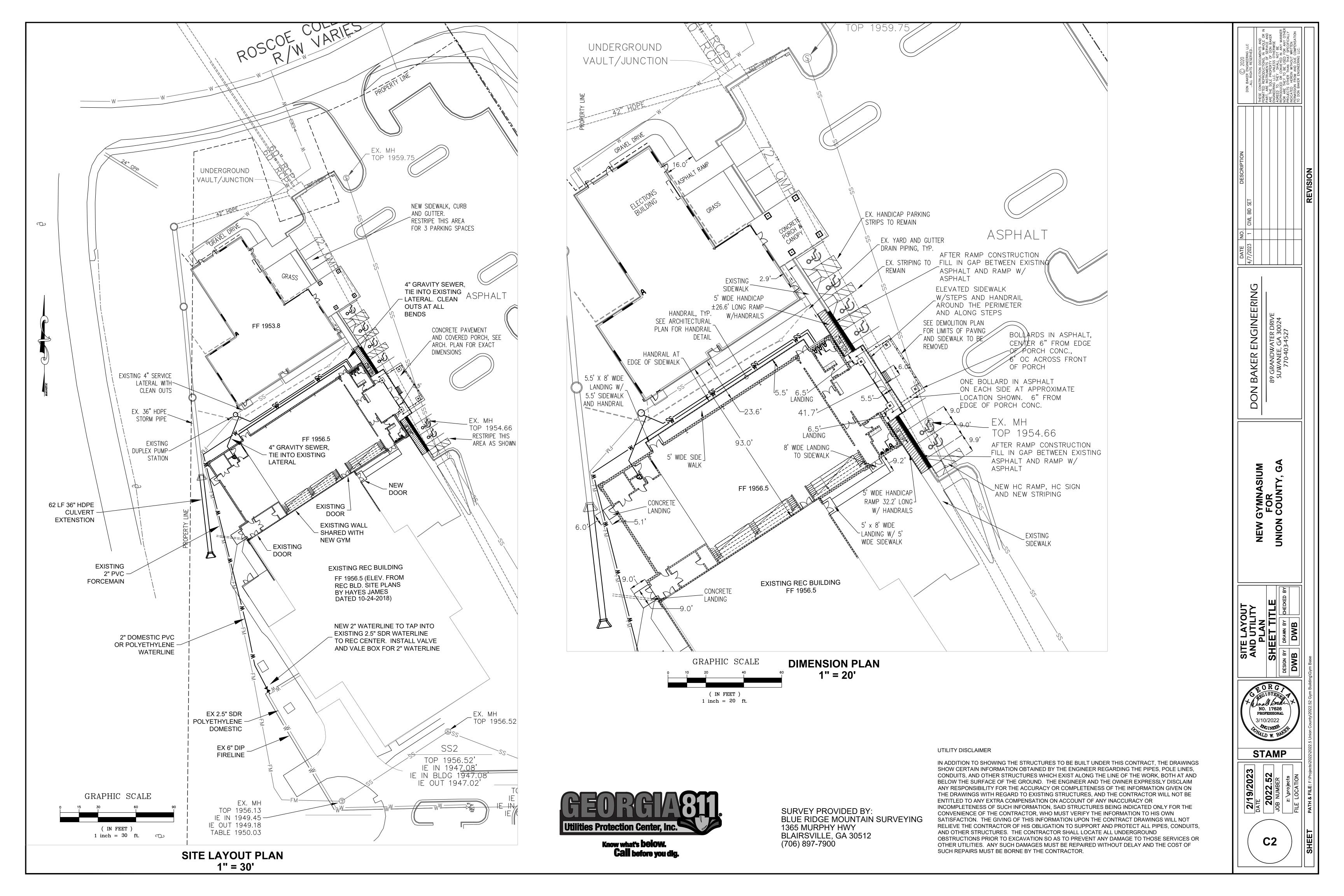
: : 22102

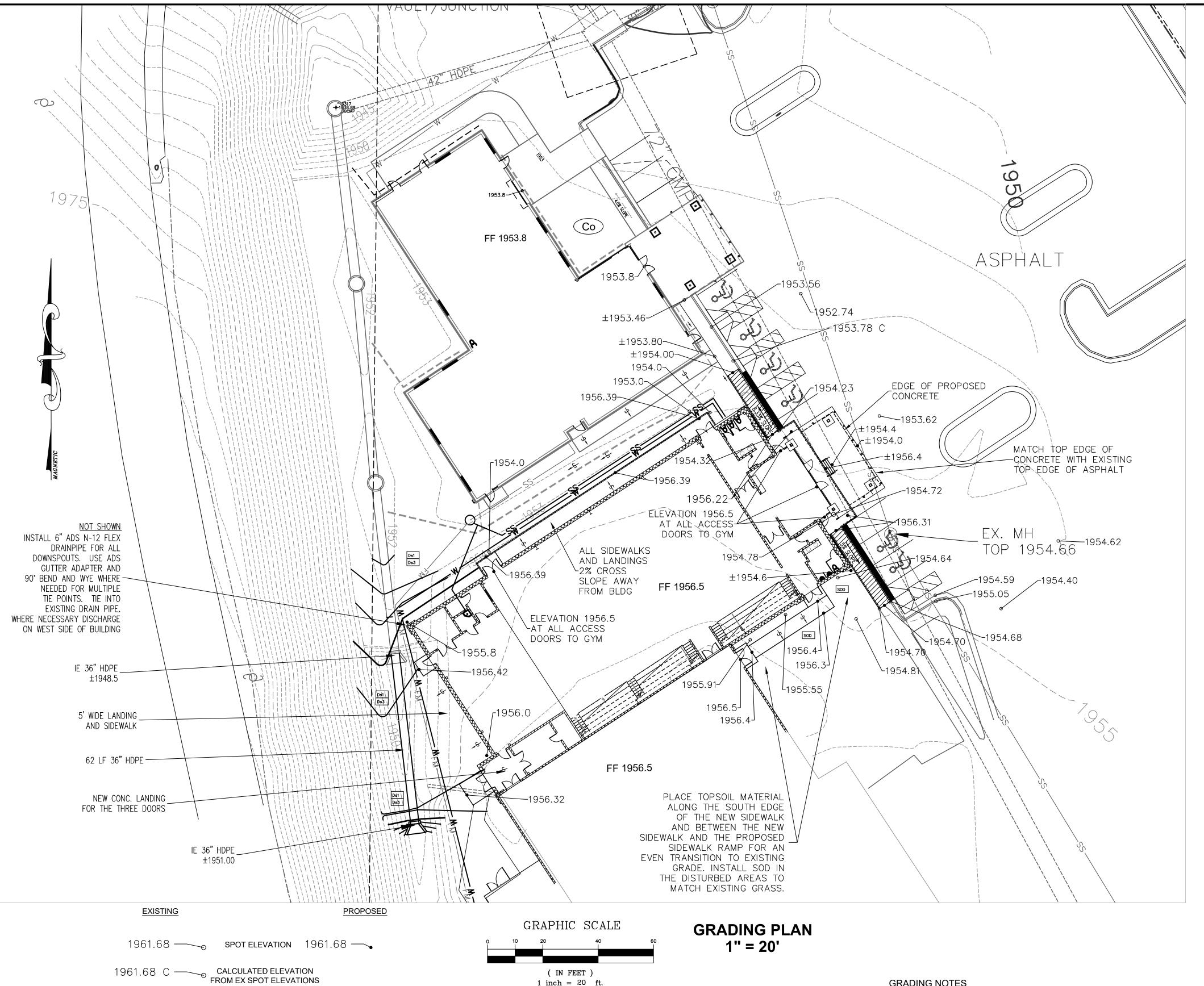
: SHEET
: Life Safety Plan

51.00

PROJECT NO.







Itilities Protection Center. Inc. Know what's **below. Call** before you dig.

UTILITY DISCLAIMER

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

GRADING NOTES

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

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.
- CLEAN BELL AND SPIGOT ENDS OF EACH PIPE THOROUGHLY BEFORE PIPE IS LAID.
- PREVENT FOREIGN MATERIAL FROM ENTERING PIPE WHILE IT IS BEING PLACED IN
- A. PROVIDE PROTECTIVE COVERING FOR ENDS OF PIPE UNTIL CONNECTION IS MADE TO ADJACENT PIPE, IF NECESSARY.
- NO DEBRIS, TOOLS, CLOTHING, OR OTHER MATERIALS SHALL BE PLACED IN PIPE DURING LAYING OPERATIONS.
- 9. AS EACH LENGTH OF PIPE IS PLACED IN TRENCH, SPIGOT END SHALL BE CENTERED IN BELL AND PIPE FORCED HOME AND BROUGHT TO CORRECT LINE AND GRADE.
- A. PIPE SHALL BE SECURED IN PLACE WITH APPROVED BACK FILL MATERIAL
- TAMPED AROUND IT. B. PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING JOINT SPACE.
- 10. OPEN ENDS OF 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.
- 12. FOR 6" SERVICE LATERAL INSTALLATION, CLEANOUTS SHALL BE INSTALLED AT ALL

STORM PIPE

- 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.

WATER SYSTEM

- CONTACT CITY OF BLAIRSVILLE UTILITY DEPARTMENT FOR SERVICE CONNECTION.
- 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

GRASSING NOTES

ALL SLOPED AREAS TO BE MULCHED AND TEMPORARILY GRASSED WITH 2 1/2 TONS

PER ACRE OF DRY STRAW. TEMPORARY GRASSING Ds2

SPECIES

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.

RYE GRASS-ANNUAL BROWNTOP MILLET

Ds1

AUGUST THRU MID-APRIL 40-50#/AC. 30-40#/AC. APRIL THRU MID-JULY 160-170#/AC. MID-AUGUST THRU DECEMBER

PLANTING DATE

PERMANENT GRASSING: Ds3

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

THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND - FERTILIZER AT A RATE OF 1500#/AC. AND LIME AT 2000#/AC. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM BEING FREE OF ROCKS, CLODS, ROOTS, ETC. FERTILIZER MIXED GRADE SHALL BE EITHER 4-12- 12; 6-12-12 OR 5-10-15. SEEDING SHALL BE DONE WITHIN 24 HOURS OF THE FERTILIZER APPLICATION, WEATHER PERMITTING. SEED SHALL BE UNIFORMLY SPREAD AT THE RATE SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA LEAVING APPROXIMATELY 25% OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHALL BE DOUBLED ON SIDE SLOPES 4:1 AND STEEPER.

SPECIES RATE TALL FESCUE 50#/AC. COMMON BERMUDA (HULLED) 10#/AC. COMMON BERMUDA (UNHULLED) 10#/AC.

AUGUST THRU OCTOBER MARCH THRU JUNE OCTOBER THRU FEBRUARY MARCH THRU JUNE

PLANTING DATE

SOD

WEEPING LOVEGRASS

SOD TO BE PLACED ON RACKED OUT AREA TO THE LIMITS OF DISTURBANCE. TYPE OF SOD TO MATCH EXISTING GRASSING.

4#/AC.

ASIUN GYMN, FOR COUN UNION GRADING PLAN AND EROSION CONTROL PLAN SHEET TITLE Grab belle NO. 17626 **PROFESSIONAL** 3/10/2022 **STAMP** 11/10/2022 DATE 2022.52 JOB NUMBER

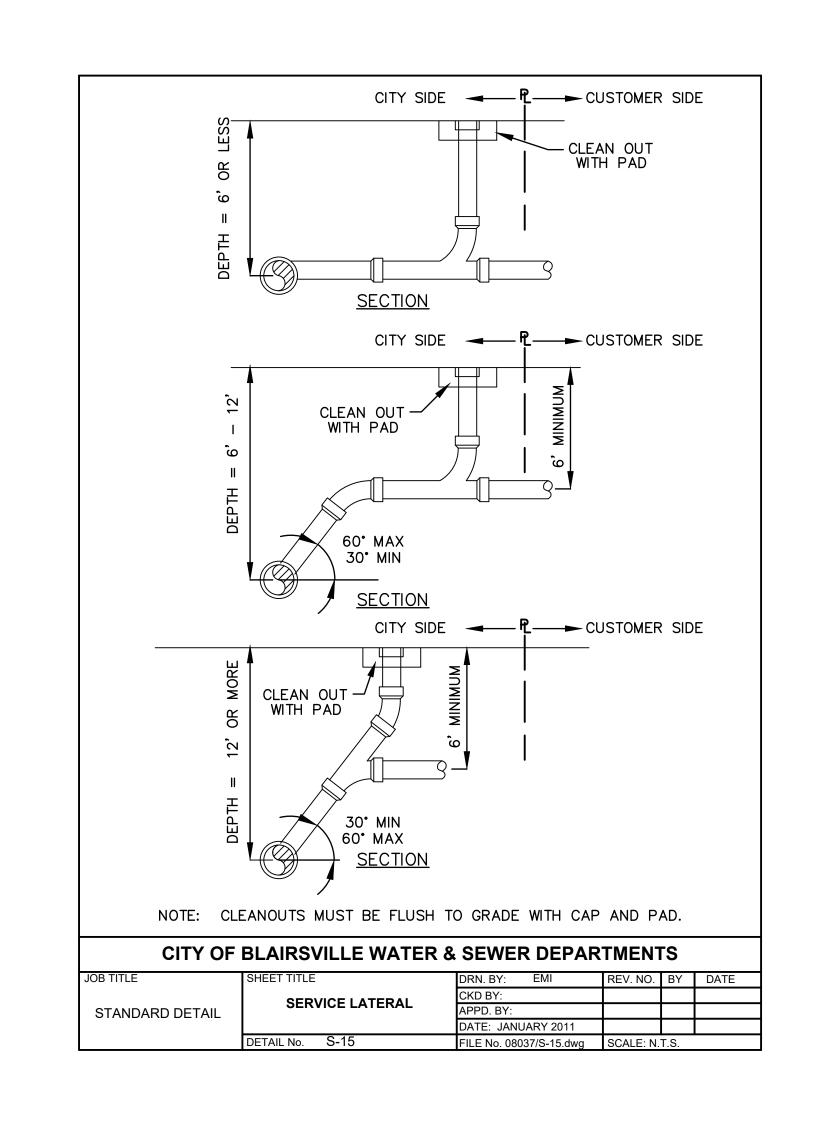


Table 4: Acceptable Backfill Material and Compaction Requirements

Description	Soil	Classifi	ication	Minimum Standard Proctor Density %
	ASTM D2321	ASTM D2487	AASHTO M43	
Graded or crushed, crushed stone, gravel	Class I	-	5 56	Dumped
Well-graded sand, gravels and gravel/sand mixtures; poorly graded sand, gravels and gravel/sand mixtures; little or no fines	Class II	GW GP SW SP	57 6	85%
Silty or clayey gravel/ sand/silt or gravel and clay mix- tures; silty or clayey sands, sand/clay or sand/silt mixtures	Class III	GM GC SM SC	Gravel and sand (<10% fines)	90%

MIN. COVER FOR FINAL BACKFILL

INITIAL BACKFILL

HAUNCH

4"-6" BEDDING

SUITABLE FOUNDATION

FILL AS SPECIFIED BY
DESIGN ENGINEER
STRUCTURAL BACKFILL
(COMPACTED CLASS I,
II, OR III MATERIAL)

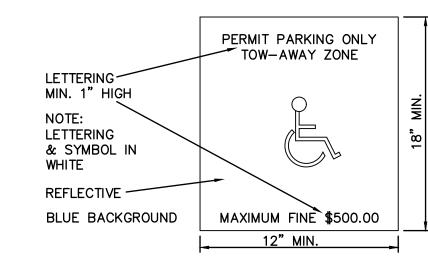
= 24" FOR PIPE DIAMETERS 54" AND 60"

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

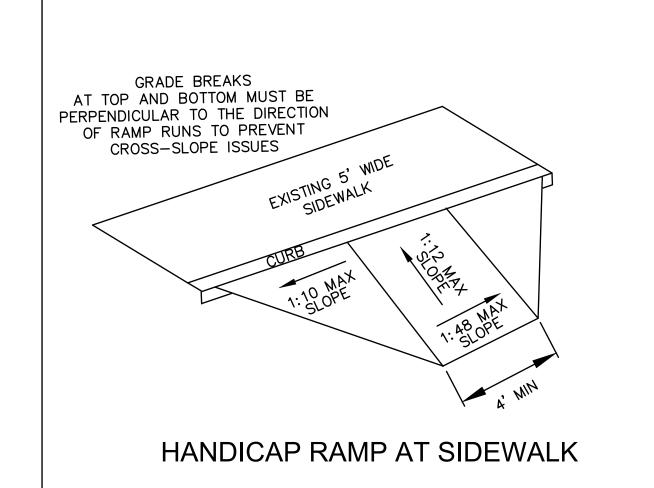
HDPE PIPE BACKFILL MATERIALS

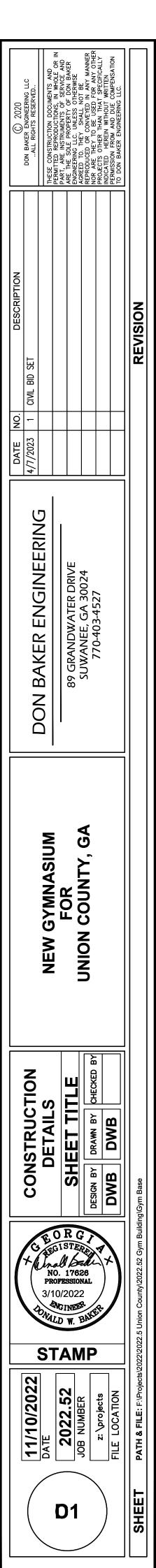
"Handicapped parking place" means any area on public or private property which has been designated as reserved for use of handicapped persons as follows:

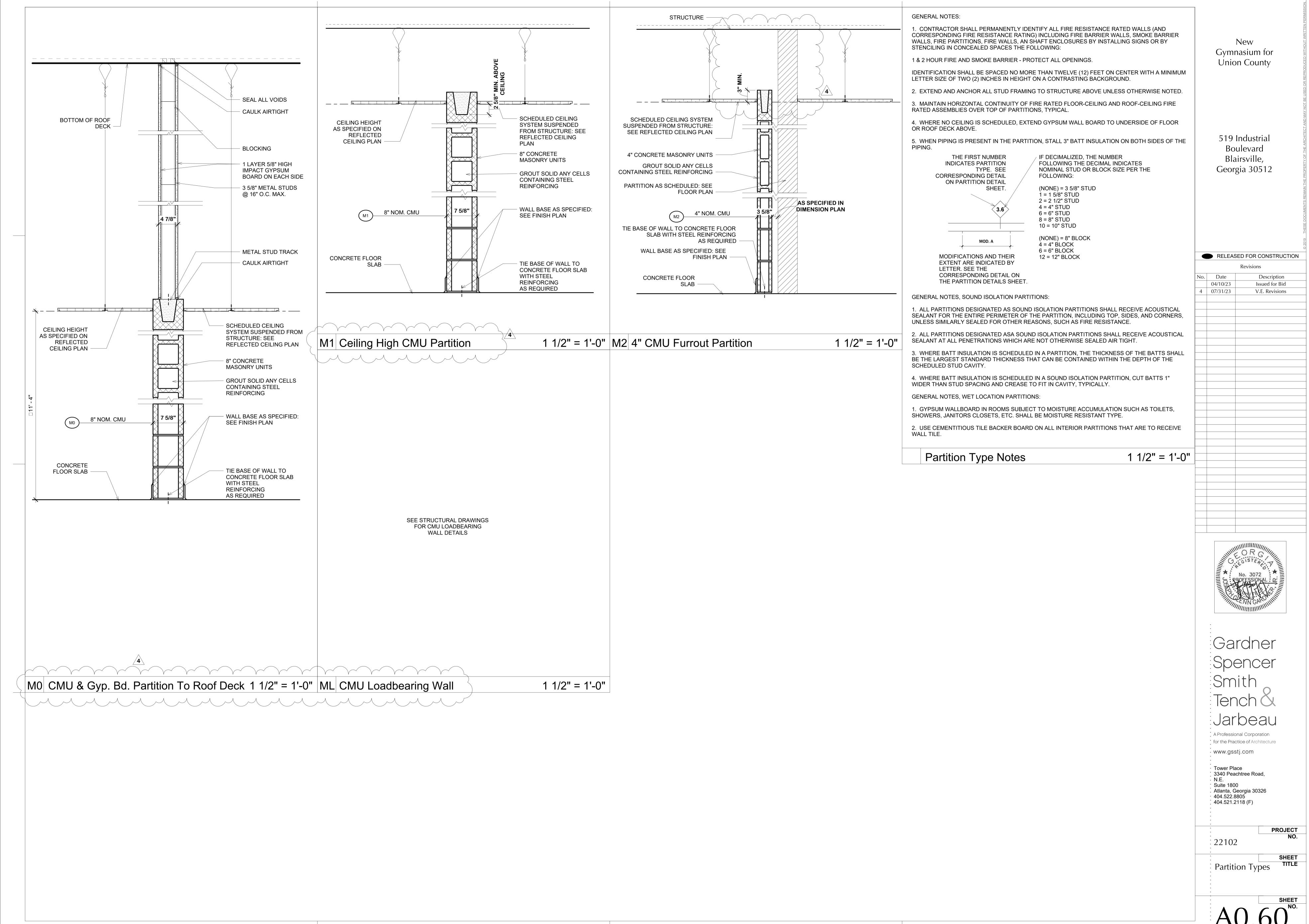
(A) By a blue metal reflective sign which is at least 12 inches in width and 18 inches in length and is erected at such height or in such a manner that it will not be obscured by a vehicle parked in the space and bearing the following words: "Permit Parking Only", "Tow—Away Zone" and "Maximum Fine \$500.00. 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.

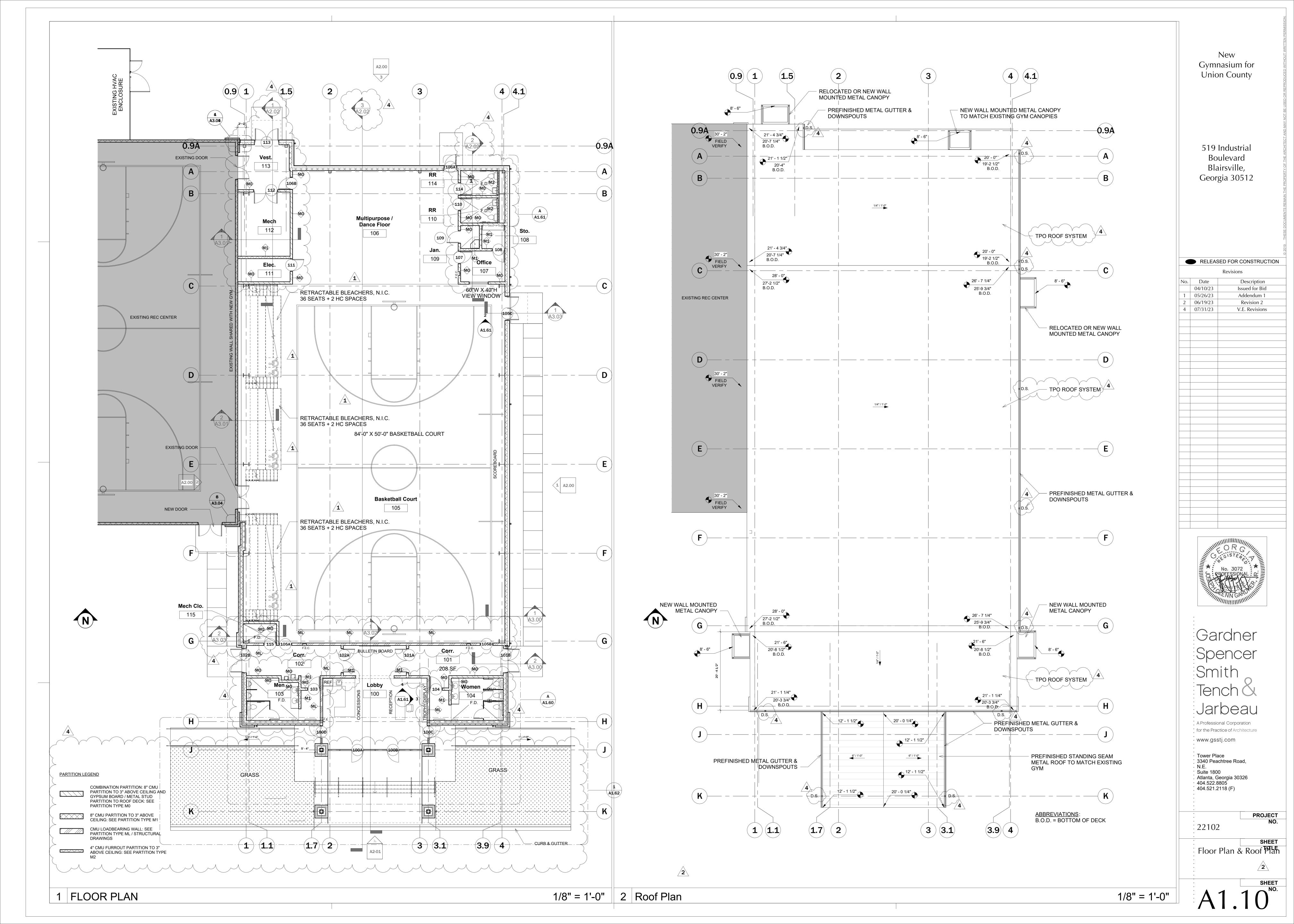


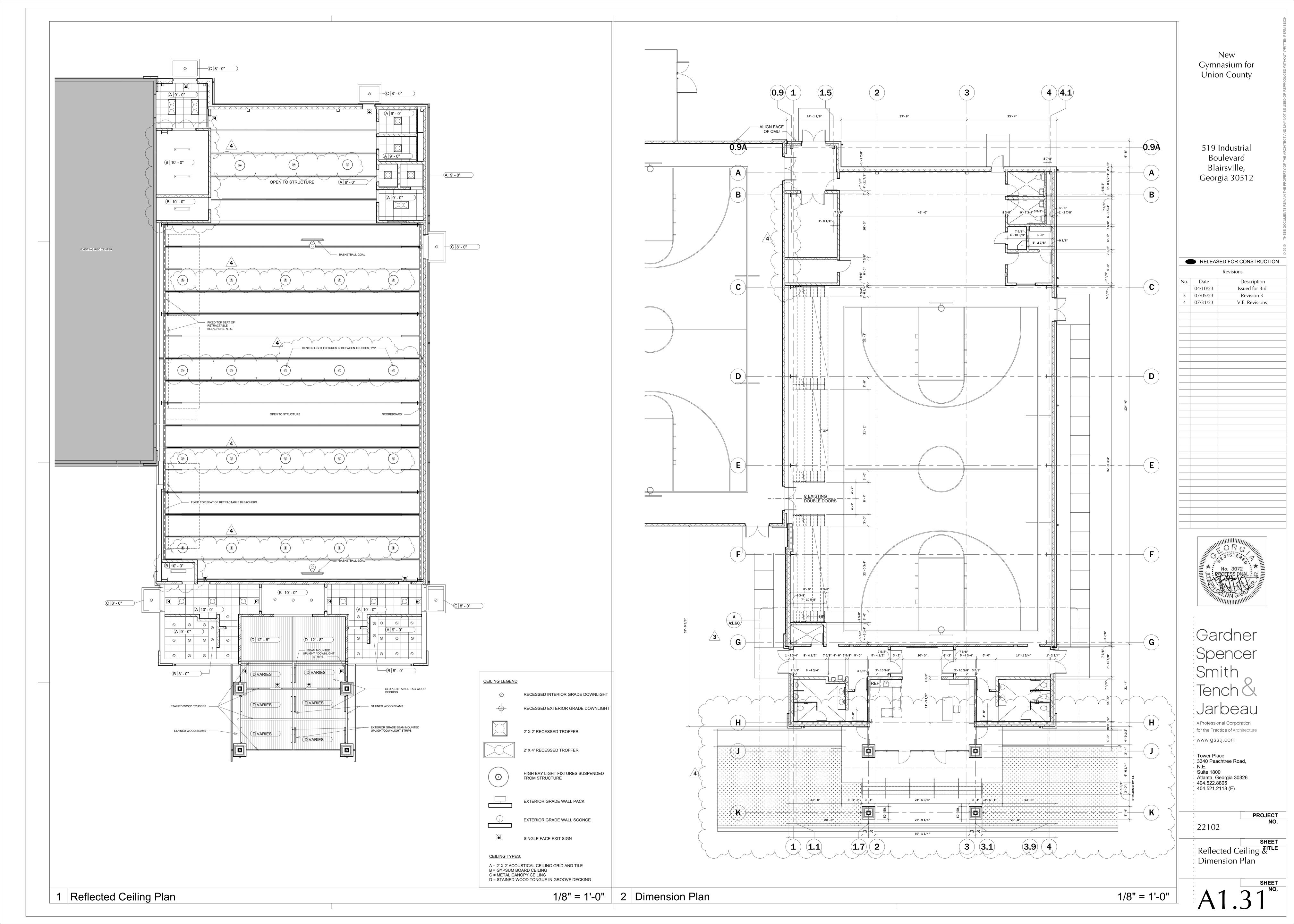
<u>HANDICAP SIGN</u>

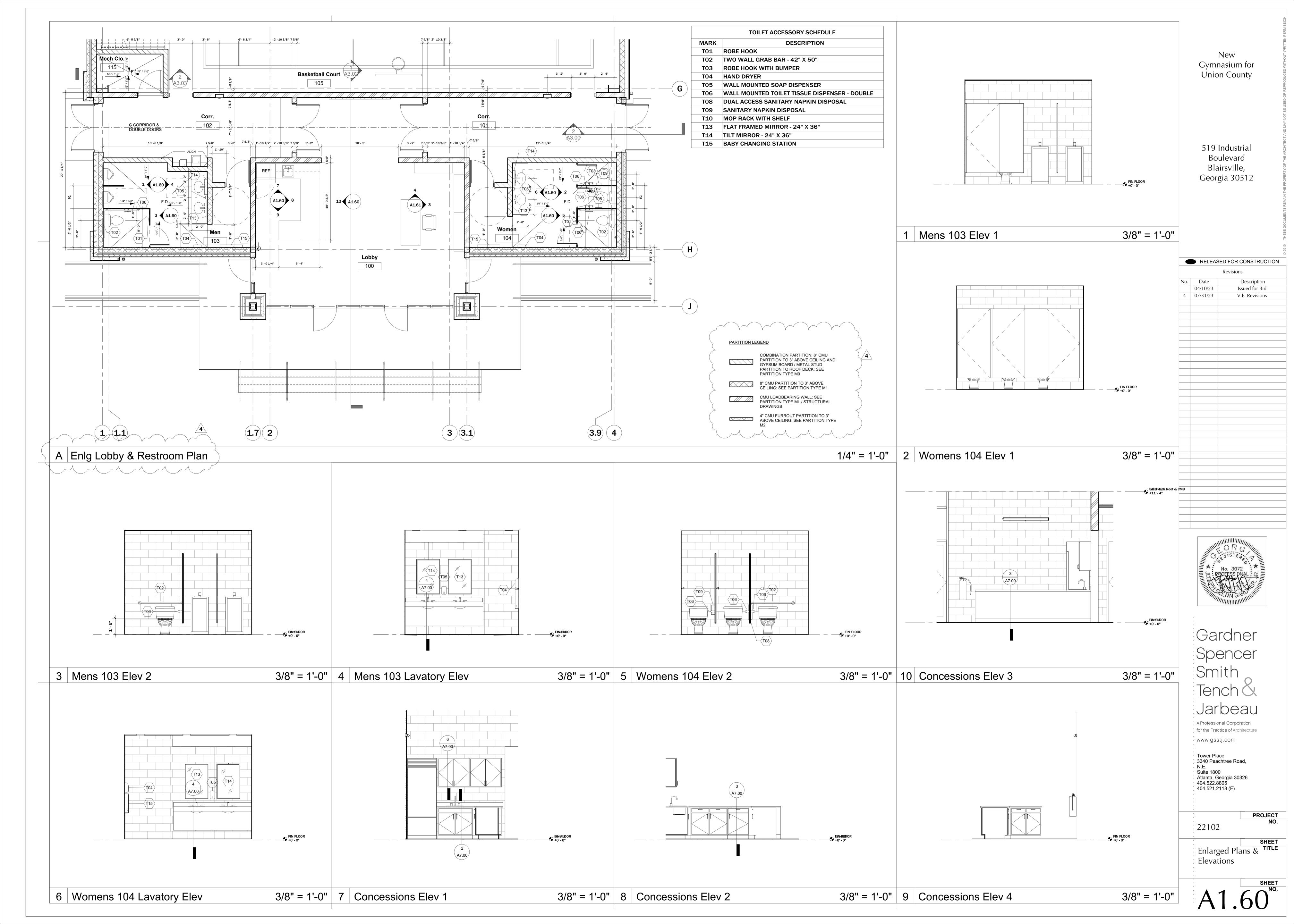


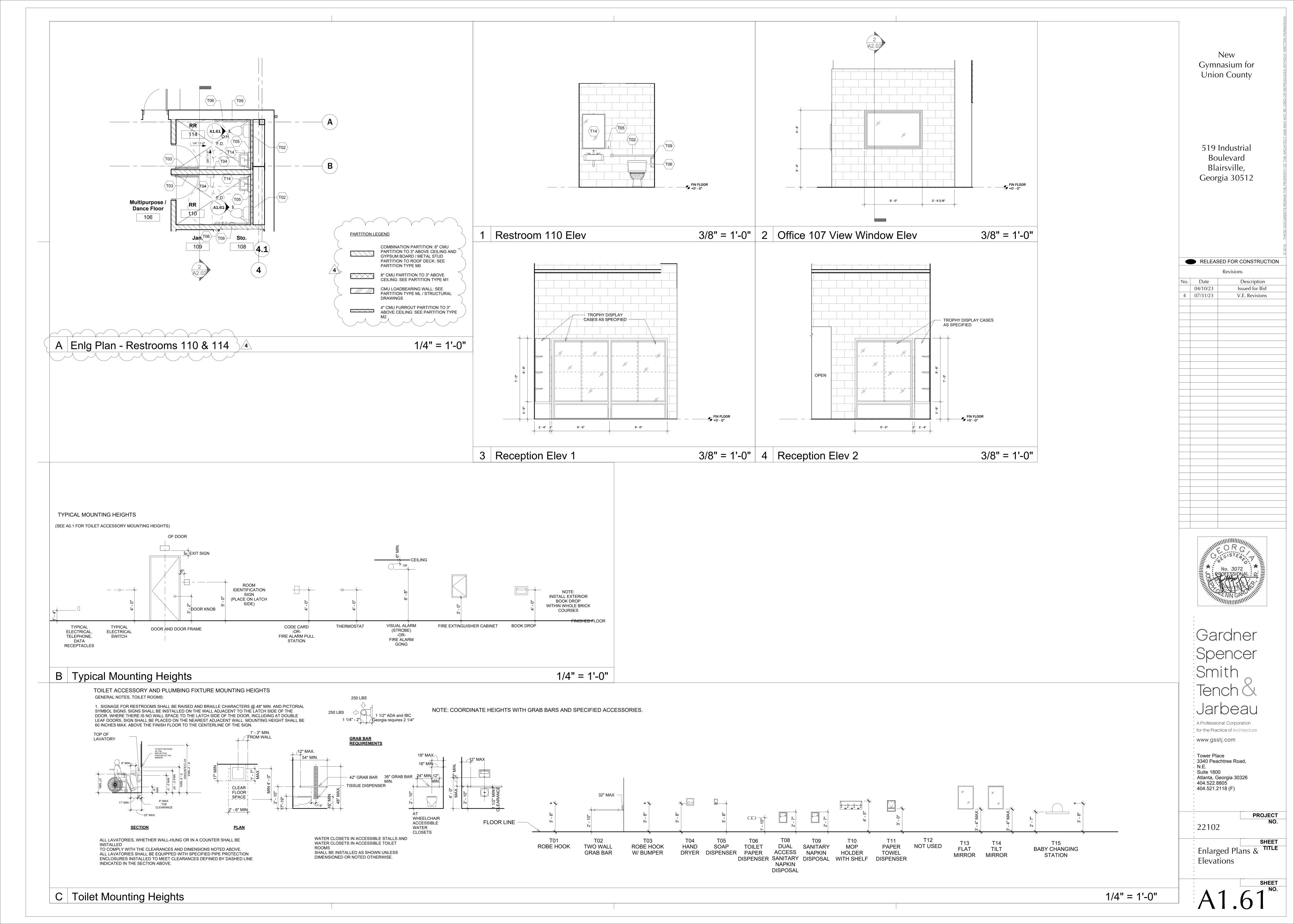


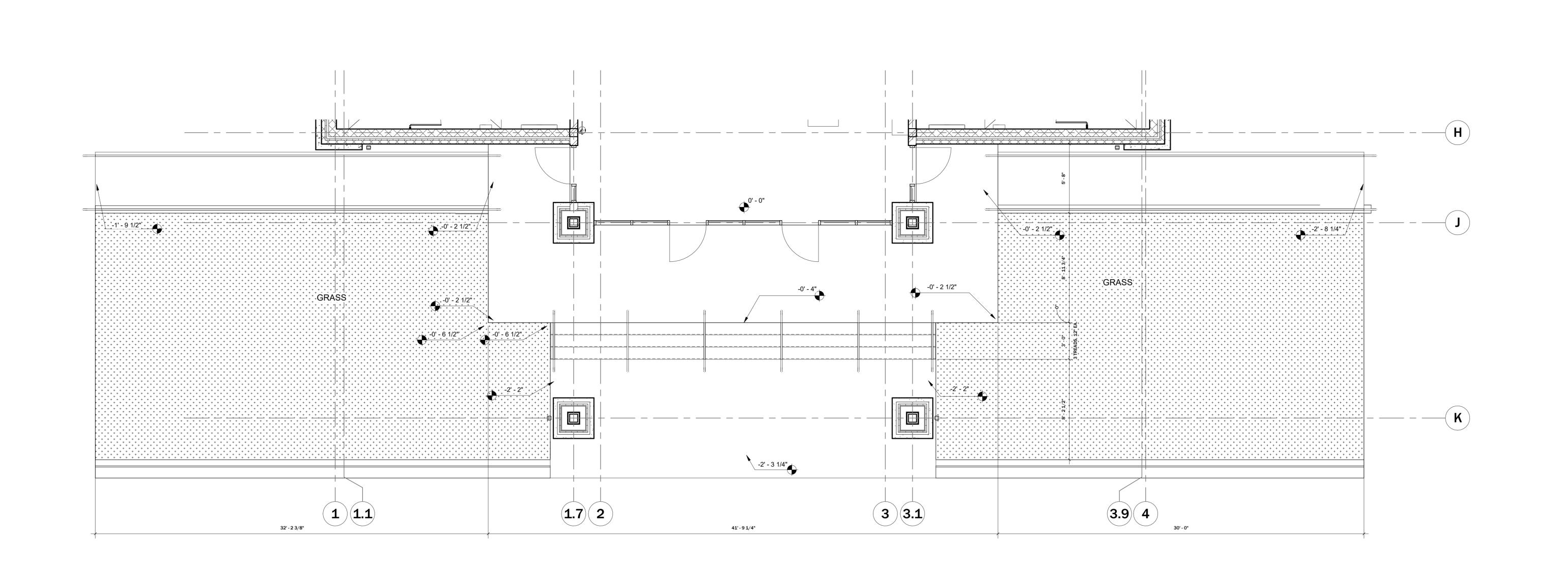












New Gymnasium for Union County

519 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

Revisions

No. Date Description

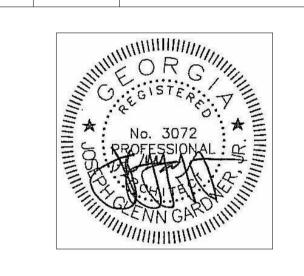
Date Description

0. Date Description

07/31/23 V.E. Revisions

1/4" = 1'-0"

1 Enlarged Front Entrance Plan



Gardner
Spencer
Smith
Tench &
Jarbeau

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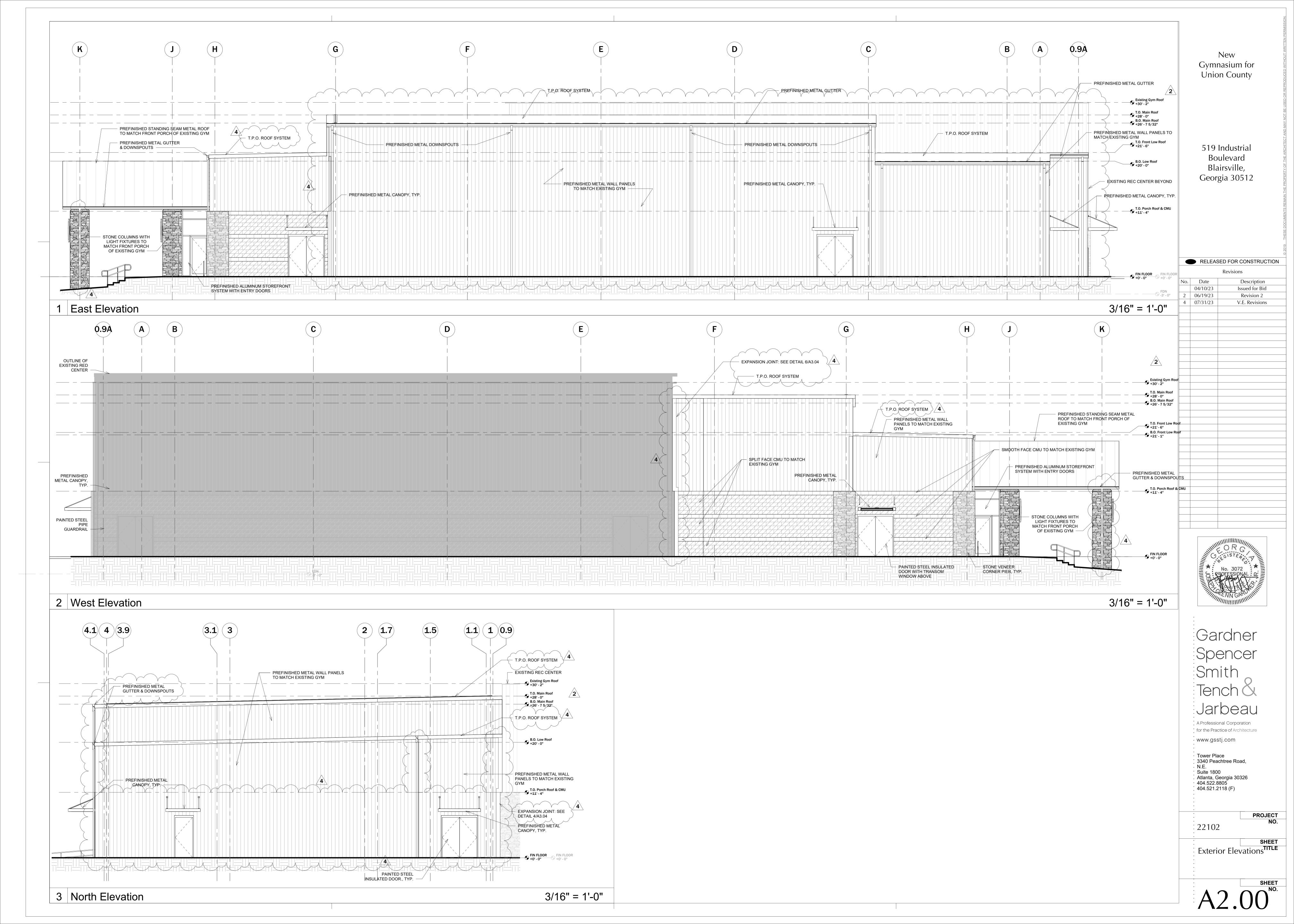
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Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

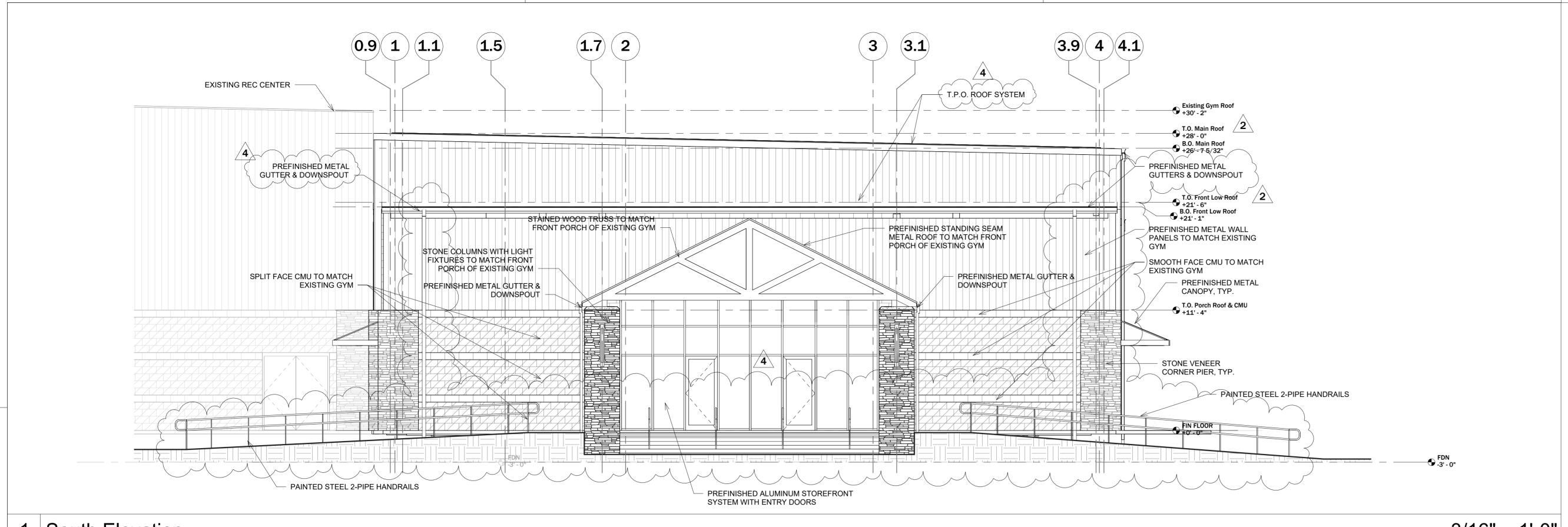
: : 22102

SHEETEnlarged Entrance Plan

PROJECT NO.

 $A1.62^{\text{SHEET}}$





1 South Elevation 3/16" = 1'-0"

New Gymnasium for Union County

519 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

Revisions

No. Date Description

04/10/23 Issued for Bid

2 06/19/23 Revision 2

4 07/31/23 V.E. Revisions

No. 3072

No. 3072

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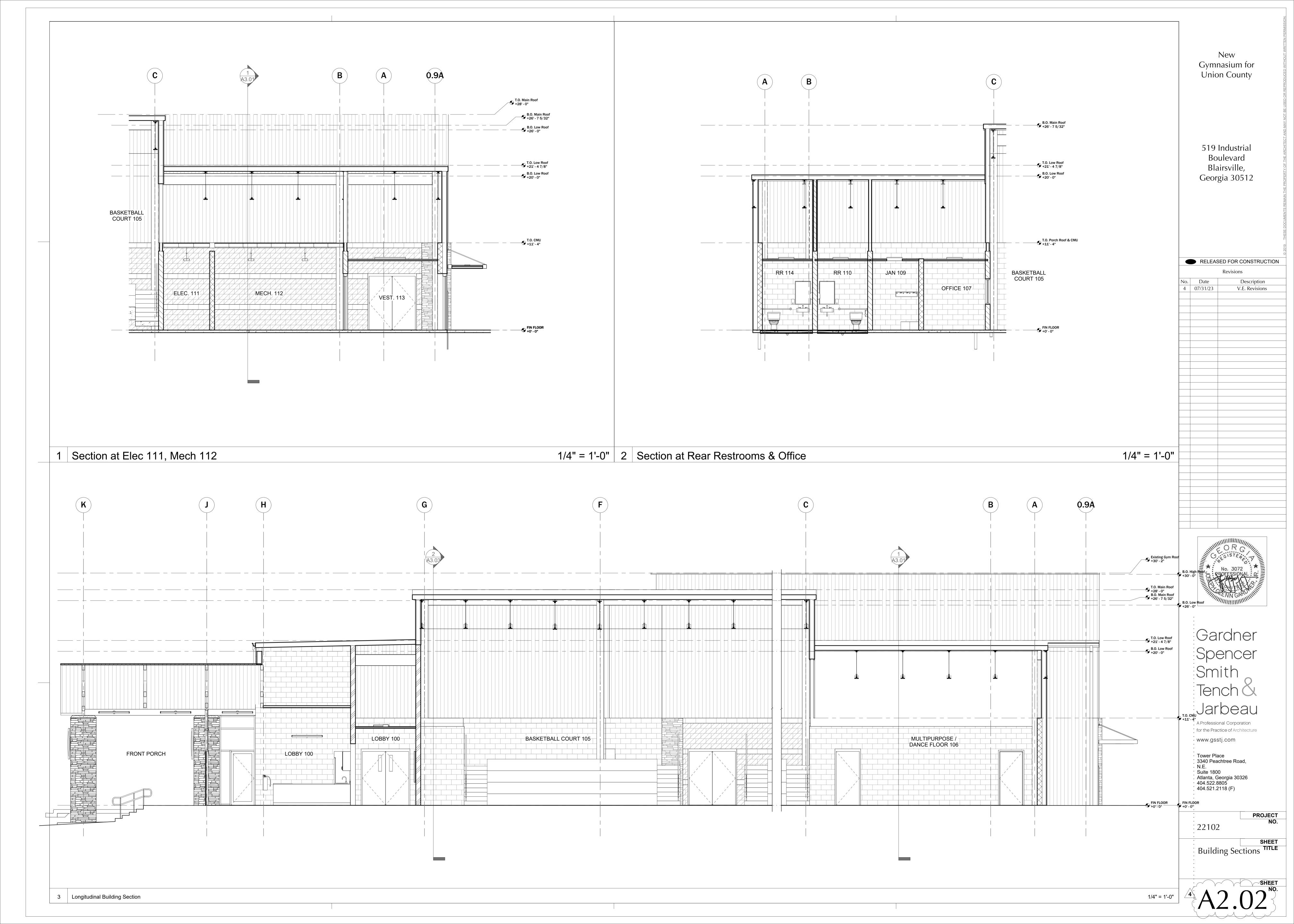
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Atlanta, Georgia 30326
404.522.8805
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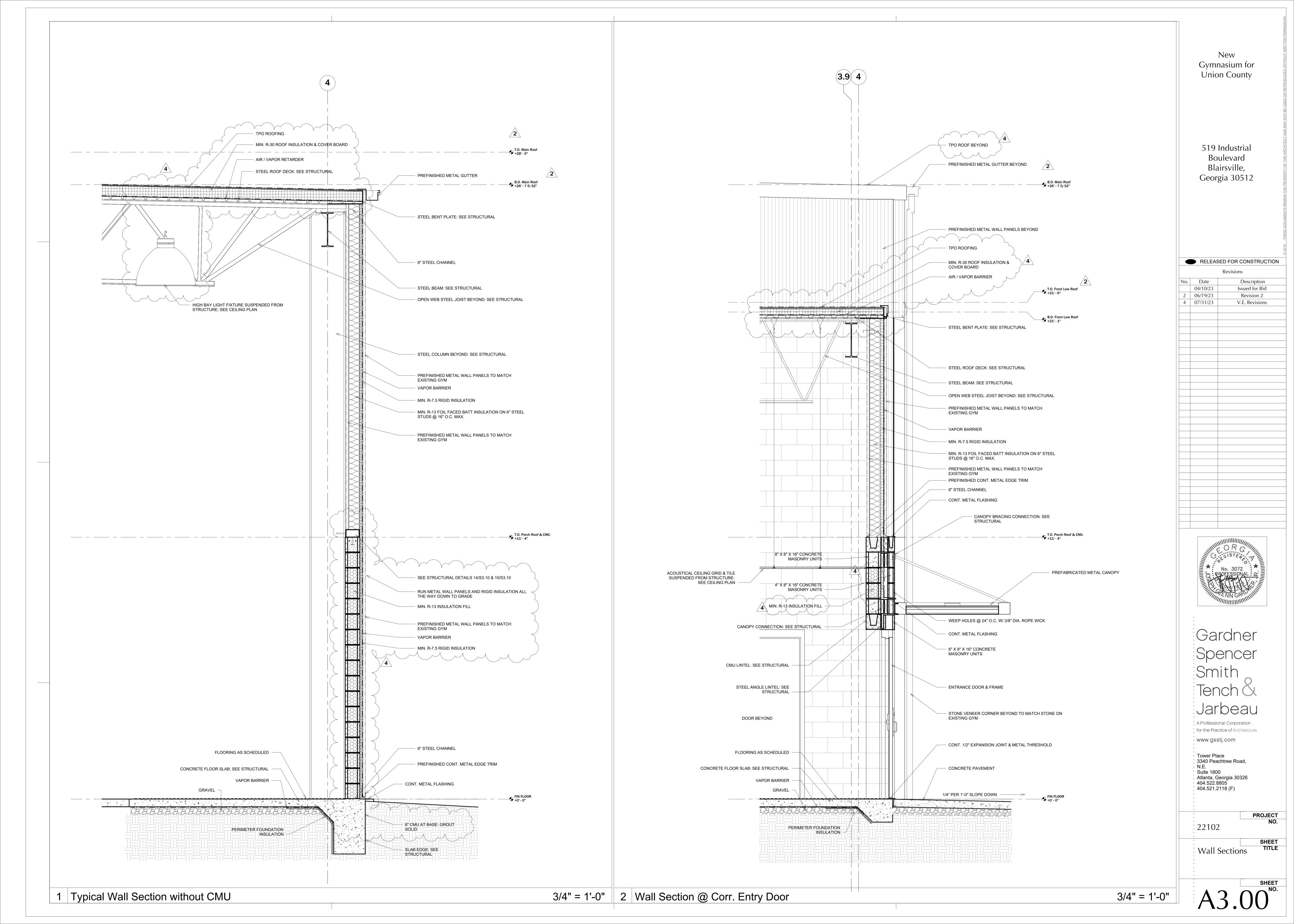
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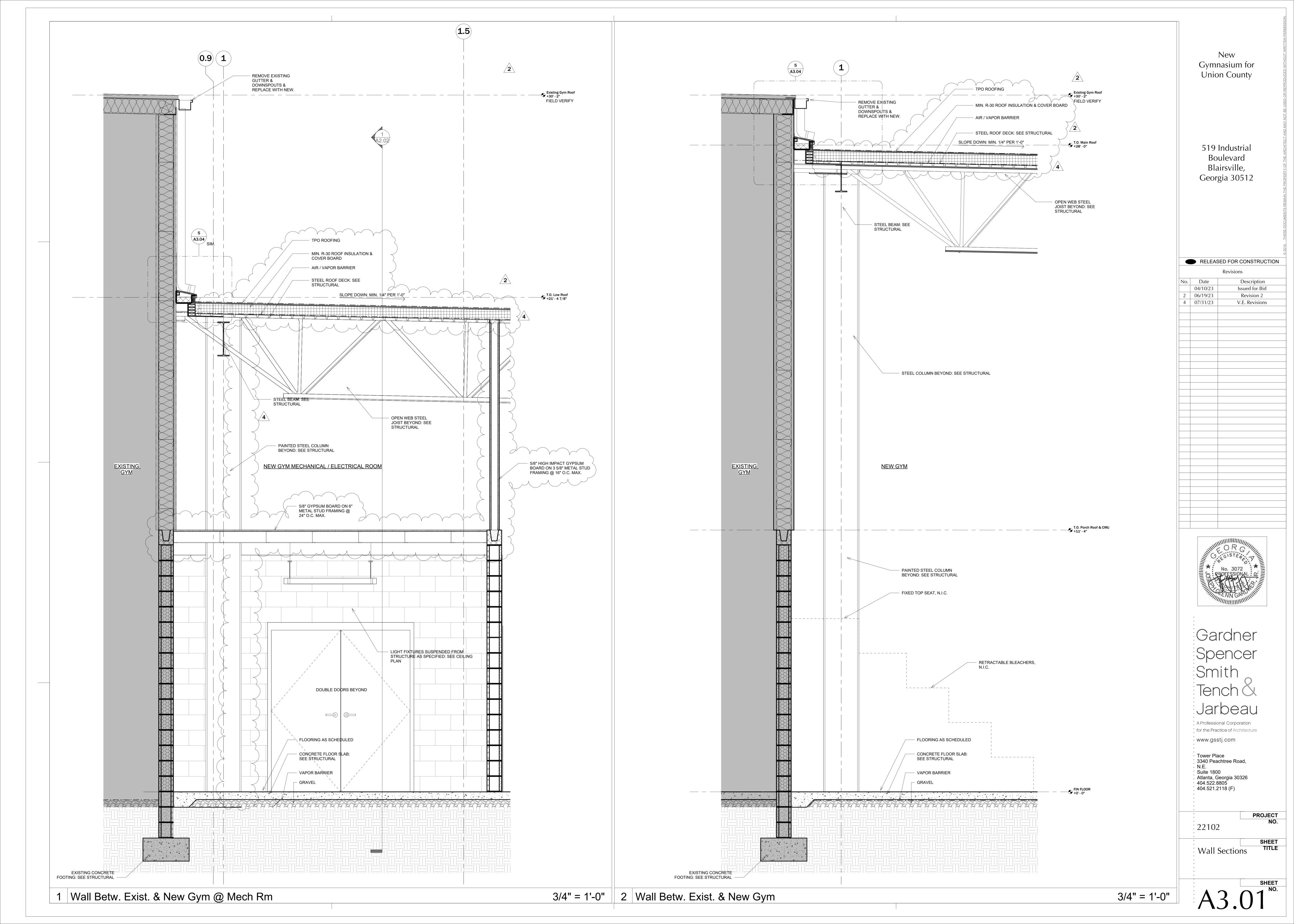
Exterior Elevations TITLE

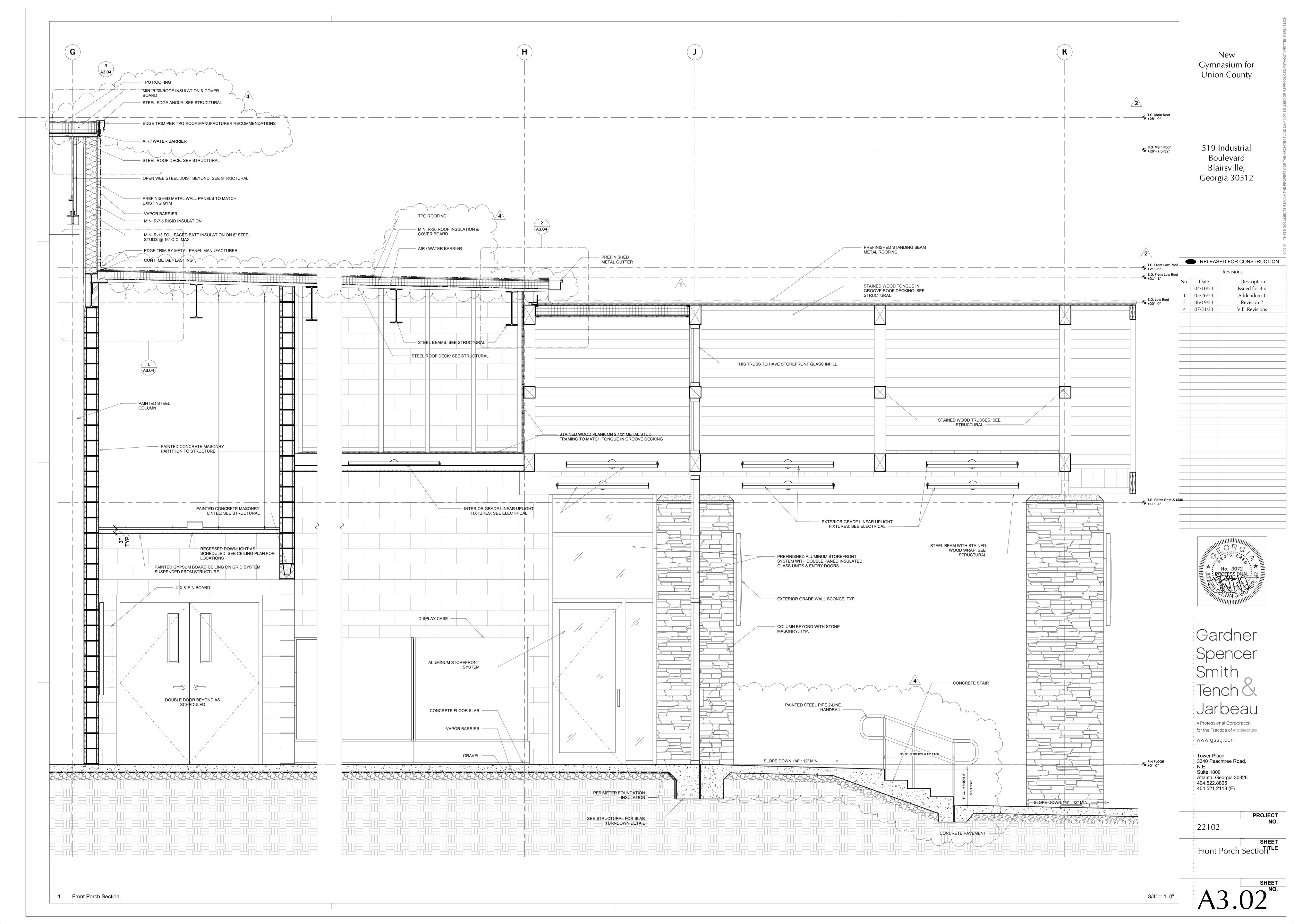
PROJECT NO.

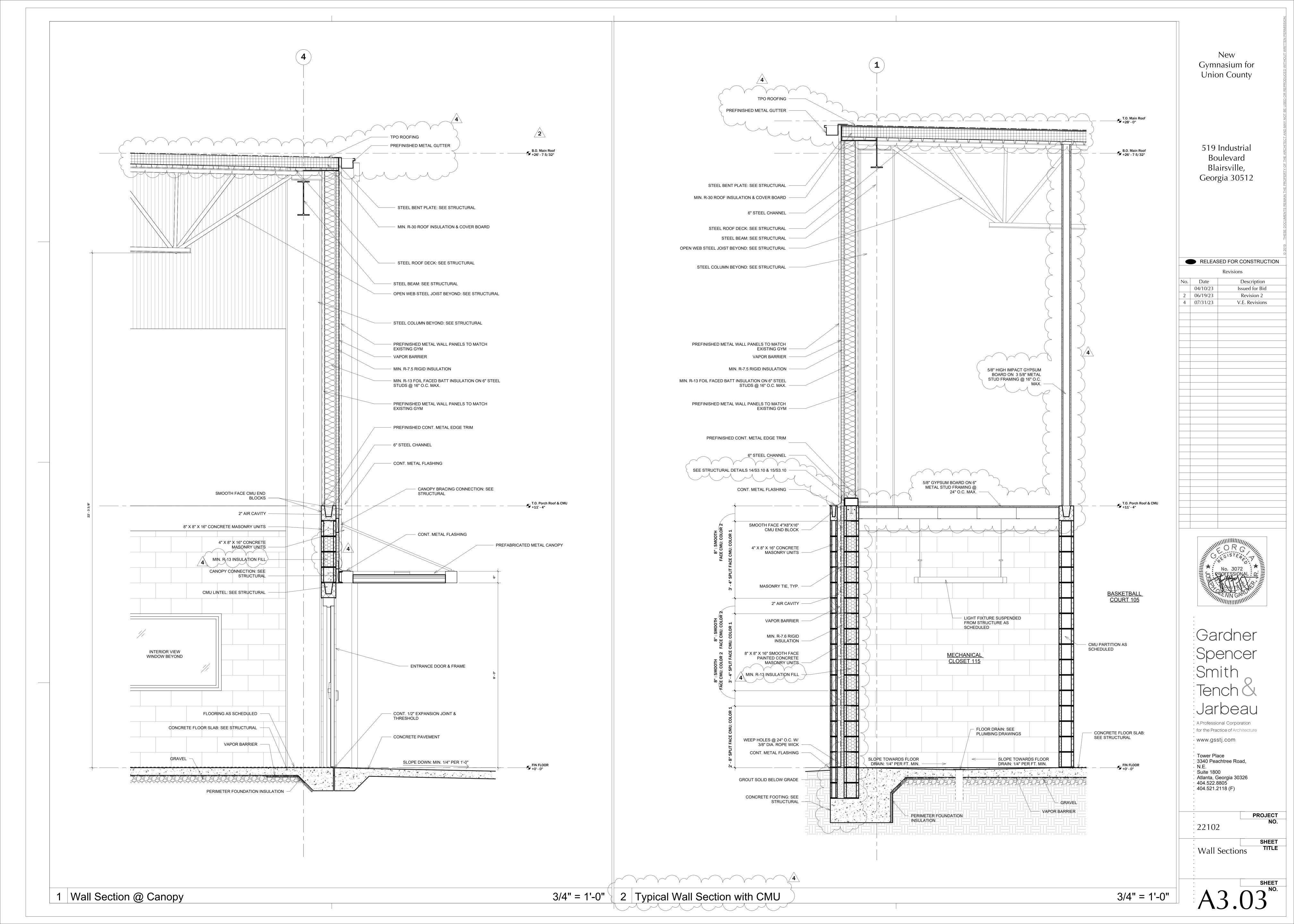
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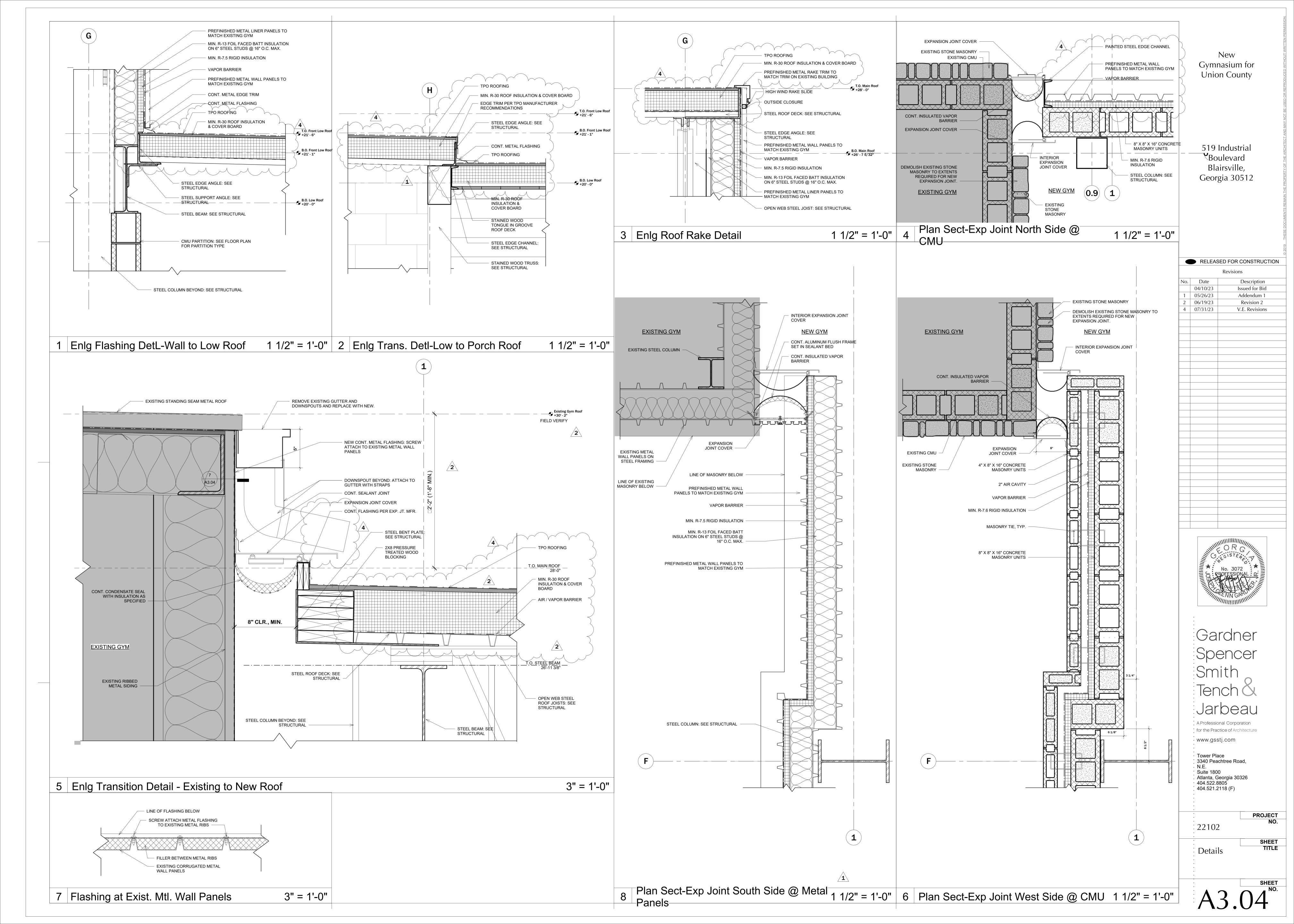


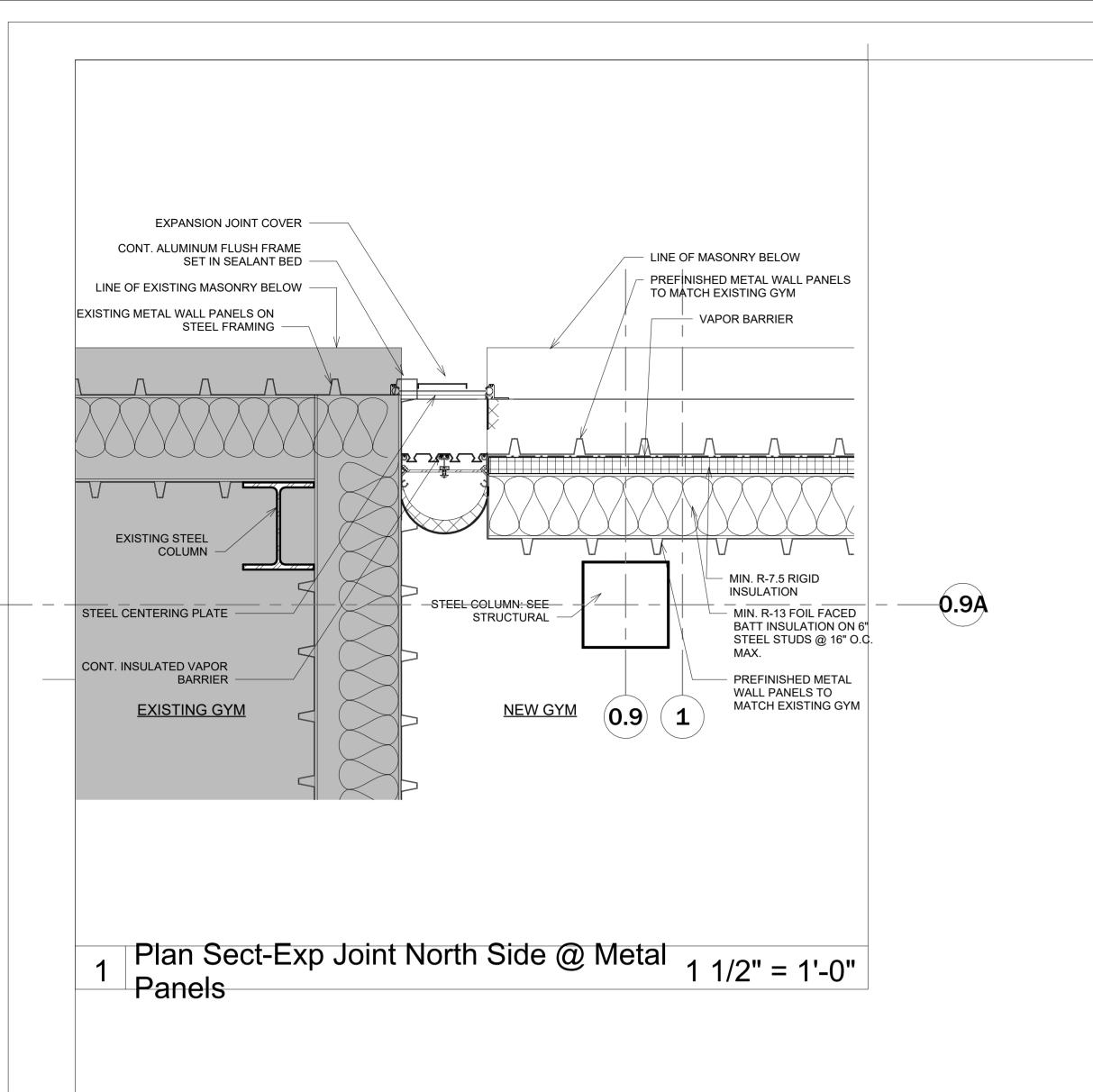












Gymnasium for Union County

519 Industrial Boulevard Blairsville, Georgia 30512

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		Revisions
No.	Date	Description
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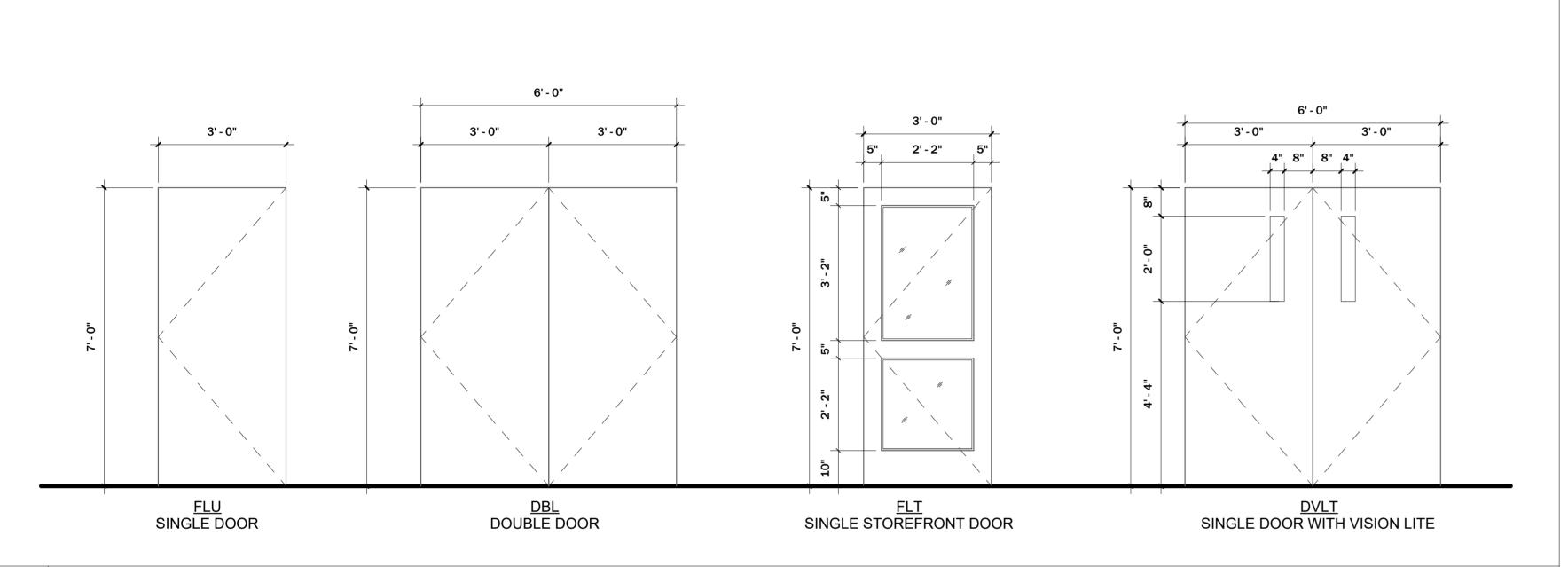
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Details

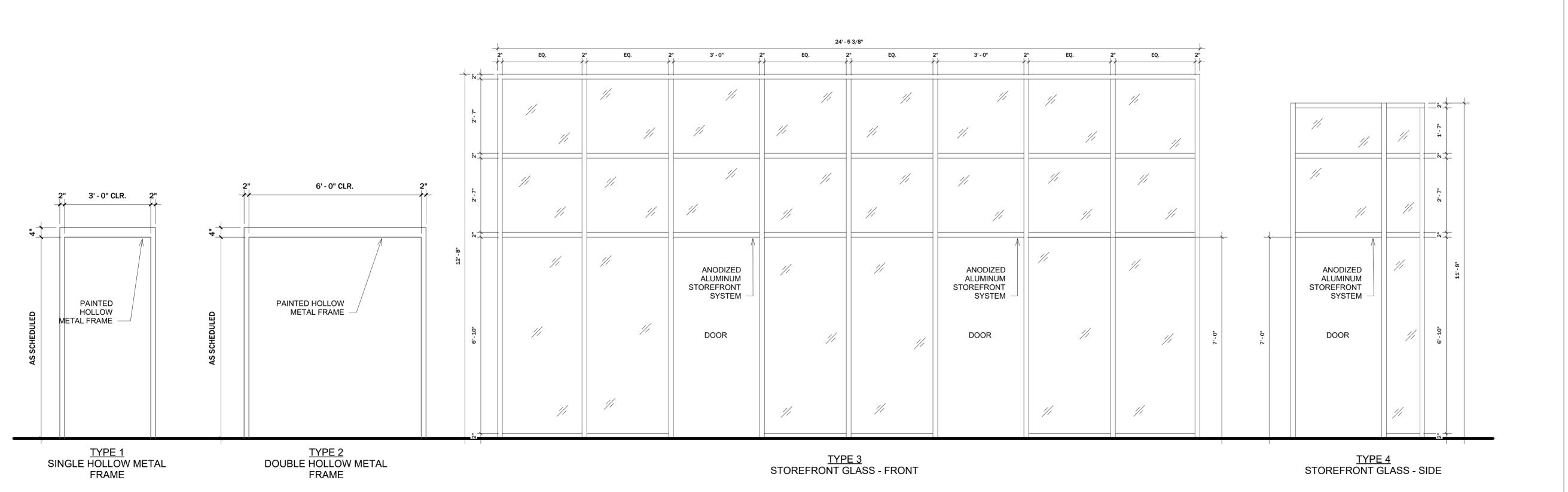
PROJECT NO.

SHEET

															4	DOOR SCHEE	DULE						^		
					DO	OR			ŀ	FRAME				DETAILS		1							1		
				SIZE		Material/		Elevation/	Material/	E	levatio	Fire) Hardware			Hold	Exit		Card		Hard ware	
MARK	PR	Hand	W	Н	Т	Construction	Finish	Glazing	Construction	n Finish	n	Rating	HEAD	JAMB	SILL	Function	Lock	Close	er Open	Devic	e Hook	Reader	Signage	Set	NOTES
100A	No	LHR	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM/GL	MFR	FLT	ALUM	MFR	3		H5	J5	S1	ENTRY	Yes	Yes	No	Yes	No		N	01.0	1
100B	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM/GL	MFR	FLT	ALUM	MFR	3		H5	J5⁄	S1	ĘNTRY	Yes	Yes	No	Yes	No		N	01.0	1
100C	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM/GL	MFR	FLT	ALUM	MFR	4		H5	J5/) 6	S1	ENTRY	Yes	Yes	No	Yes	No		N	01.0	A.D.A. PUSH PAD DOOR OPERATOR
100D	No	LHR	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM/GL	MFR	FLT	ALUM	MFR	4		H5	J5/J6	S1	ENTRY	Yes	Yes	No	Yes	No		N	01.0	A.D.A. PUSH PAD DOOR OPERATOR
101A	Yes	LHR/RHRA	6' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	DVLT	HM	STAIN	2		H2	J2/		PASSAGE	No	No	No	Yes	No		N	02.0	
101B	Yes	LHR/RHRA	6' - 0"	7' - 0"	0' - 1 3/4"	STL/ INSUL	PT	DBL	НМ	PT	2		H1	J1\	S1	ENTRY	Yes	Yes	No	Yes	No		N	03.0	
102A	Yes	LHR/RHRA	6' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	DVLT	НМ	STAIN	2		H2	J2 S		PASSAGE	No	No	No	Yes	No		N	02.0	
102B	Yes	LHR/RHRA	6' - 0"	7' - 0"	0' - 1 3/4"	STL/ INSUL	PT	DBL	HM	PT	2		H1	J1/	S 1	₽NTRY	Yes	Yes	No	Yes	No		N	03.0	
103	No	LHR	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	J2	S 3	PASSAGE	No	Yes	Yes	No	No		Y	04.0	
104	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	J2 S	S 3	PASSAGE	No	Yes	Yes	No	No		Y	04.0	
105A	No	CO	3' - 0"	7' - 0"	0' - 1 3/4"				НМ	PT	1		H4	J4	S4	ÇO	No	No	No	No	No		N	05.0	
105B	No	CO	3' - 0"	7' - 0"	0' - 1 3/4"				НМ	PT	1		H4	14	S4	CØ	No	No	No	No	No		N	05.0	
105C	Yes	LHR/RHRA	6' - 0"	7' - 0"	0' - 1 3/4"	STL/ INSUL	PT	DBL	НМ	PT	2	/4	H6	J7 🕽	S2	ENTRY	Yes	Yes	No	Yes	No		N	06.0	
106A	No	LHR	3' - 0"	7' - 0"	0' - 1 3/4"	STL/ INSUL	PT	FLU	НМ	PT	1		H6	J7/	S1	ĘNTRY	Yes	Yes	No	Yes	No		N	07.0	
106B	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	12		PASSAGE	No	Yes	No	Yes	No		Y	08.0	
107	No	LH	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	J2 S		ØFFICE	Yes	No	No	No	Yes		Y	09.0	
108	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	J2/		ŞTORAGE	No	No	No	No	Yes		N	10.0	
109	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	J2	S5	STORAGE	No	No	No	No	Yes		Y	09.0	
110	No	LH	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1		H2	J2 (S 3	PRIVACY	Yes	No	No	No	Yes		Y	11.0	
111	No	RHR	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	STAIN	FLU	НМ	PT	1 🔨	/ \	H3	J3	S5	STORAGE	Yes	Yes	No	Yes	No		Y	12.0	
		LH/RHA			0' - 1 3/4"		STAIN		НМ	PT	2 4	\	1	13		STORAGE	Yes	Yes	No	No	No		Y	13.0	
		LHR/RHRA			0' - 1 3/4"			DBL	НМ	PT	2	$\overline{}$	1 H6	- / L		ENTRY	Yes	Yes	No	Yes	No		N	14.0	
114		RH			0' - 1 3/4"		STAIN		НМ	PT	2		H2	12	S 3	PRIVACY	Yes	No	No	No	Yes		Y	11.0	
	No				0' - 1 3/4"		STAIN		НМ	PT	1 4		H3	J3		STORAGE	Yes	No	No	No	No		Y	09.0	



1 Door Elevations



2 Frame Elevations 1/2" = 1'-0"

DOOR SCHEDULE ABBREVIATIONS:

A - ACTIVE LEAF
ALUM - ALUMINUM
CO - CASED OPENING
GL - GLASS
HM - HOLLOW METAL
INSUL - INSULATED
LH - LEFT HAND
LHR - LEFT HAND REVERSE
MFR - MANUFACTURER
PT - PAINT
RH - RIGHT HAND
RHR - RIGHT HAND
SCWD - SOLID CORE WOOD

NOTES:

1. DOOR SIGNAGE TO MATCH STYLE OF DOOR SIGNAGE IN EXISTING GYM.

519 Industrial
Boulevard
Blairsville,

New

Gymnasium for

Únion County

Georgia 30512

RELEASED FOR CONSTRUCTION

Revisions

No.	Date	Description
	04/10/23	Issued for Bid
1	05/26/23	Addendum 1
4	07/31/23	V.E. Revisions



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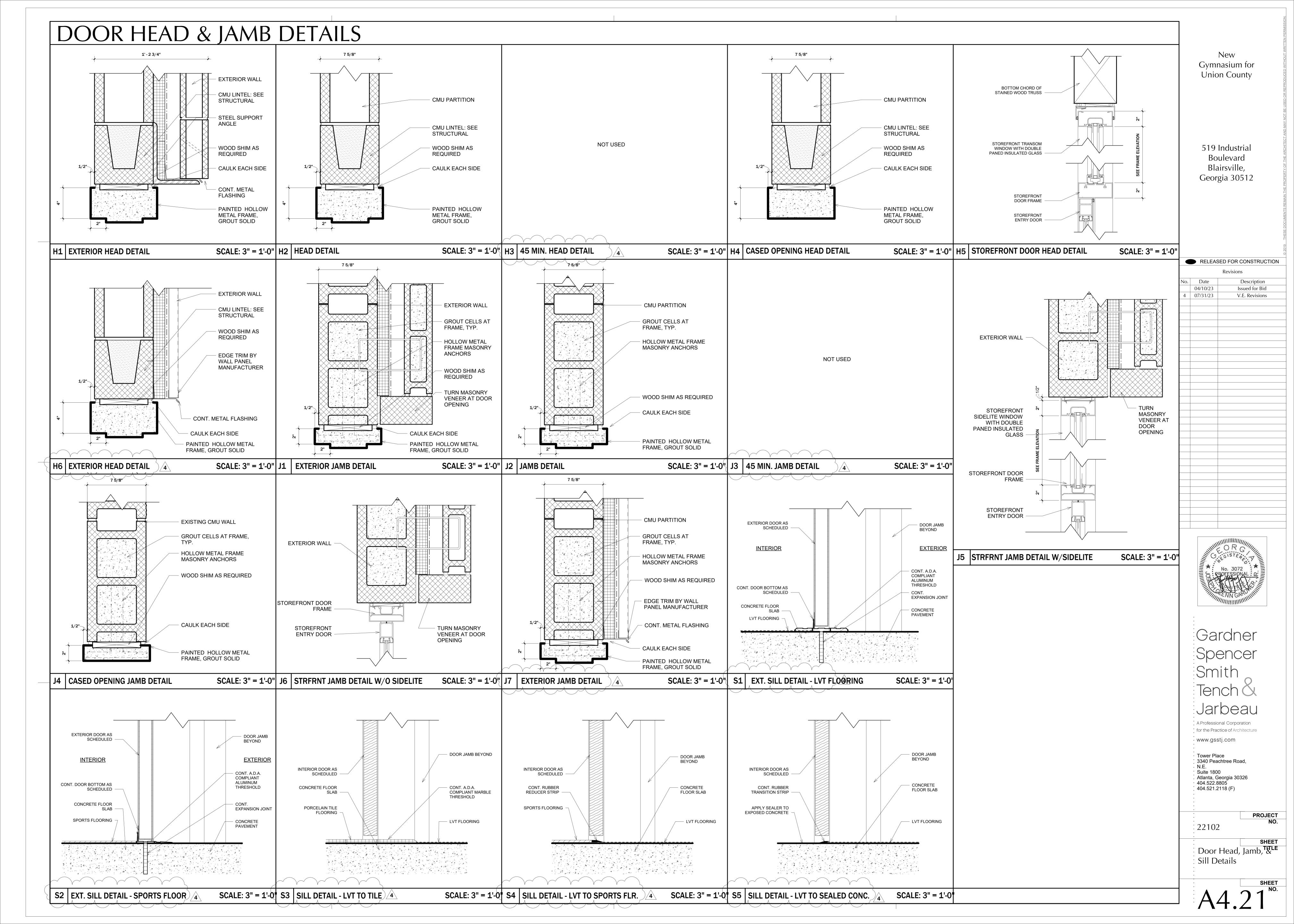
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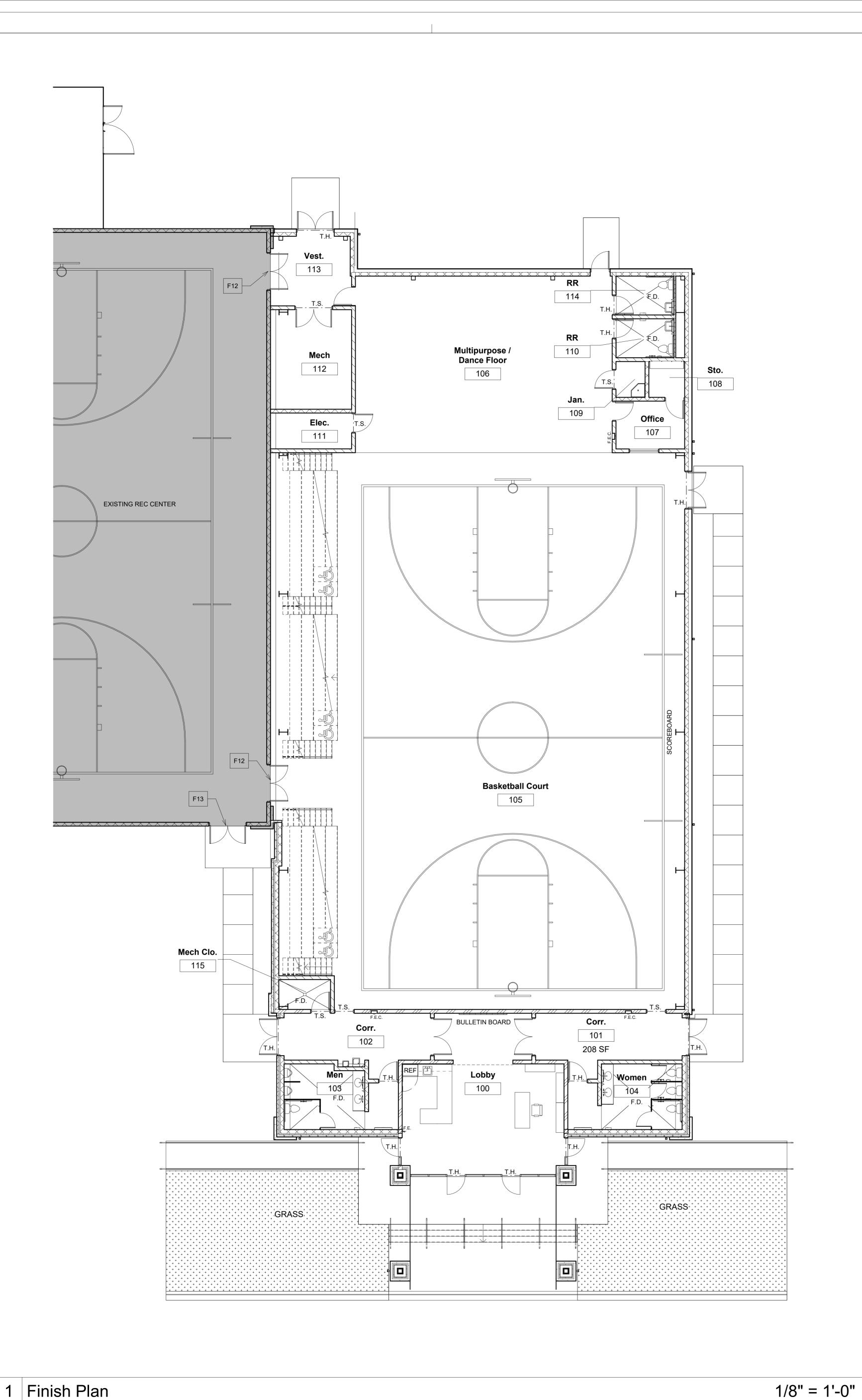
: 22102 :

Door Schedule & TITLE
Elevations

PROJECT NO.

 $A4.20^{\text{NO.}}$





					INT	ERIOR FINISH SCHEDULE	
			FLOOR			WALLS	
ROOM#	ROOM NAME	SUBSTRATE	FLOOR	BASE	SUBSTRATE	WALL	NOTES
100	Lobby	CONCRETE	PORCELAIN TILE	RUBBER BASE	CMU	PAINT	BASED OFF OF EXISTING GYM FINISHES
101	Corr.	CONCRETE	PORCELAIN TILE	RUBBER BASE	CMU & GYP	PAINT	BASED OFF OF EXISTING GYM FINISHES
102	Corr.	CONCRETE	PORCELAIN TILE	RUBBER BASE	CMU & GYP	PAINT	BASED OFF OF EXISTING GYM FINISHES
103	Men	CONCRETE	PORCELAIN TILE	PORCELAIN TILE	CMU & GYP	PORCELAIN TILE & PAINT	
104	Women	CONCRETE	PORCELAIN TILE	PORCELAIN TILE	CMU & GYP	PORCELAIN TILE & PAINT	
105	Basketball Court	CONCRETE	SPORTS FLOORING	RUBBER BASE	CMU	PAINT	
106	Multipurpose / Dance Floor	CONCRETE	LVT	RUBBER BASE	CMU & GYP	PAINT	
107	Office	CONCRETE	LVT	RUBBER BASE	CMU & GYP	PAINT	
108	Sto.	CONCRETE	LVT	RUBBER BASE	CMU	PAINT	
109	Jan.	CONCRETE	SEALED CONCRETE	RUBBER BASE	CMU & GYP	PAINT	
110	RR	CONCRETE	PORCELAIN TILE	PORCELAIN TILE	CMU & GYP	PORCELAIN TILE & PAINT	
111	Elec.	CONCRETE	SEALED CONCRETE	RUBBER BASE	CMU & GYP	PAINT	
112	Mech	CONCRETE	SEALED CONCRETE	RUBBER BASE	CMU & GYP	PAINT	
113	Vest.	CONCRETE	LVT	RUBBER BASE	CMU & GYP	PAINT	
114	RR	CONCRETE	PORCELAIN TILE	PORCELAIN TILE	CMU & GYP	PAINT	

FINISH ABBREVIATIONS CONCRETE PORCELAIN TILE BASE CARPET TILE RUBBER BASE CERAMIC TILE SEALED CONCRETE SOLID SURFACE GROUT GWB OR GYP GYPSUM WALL BOARD LVT LUXURY VINYL TILE TO BE DETERMINED THRESHOLD NIC PLAM PNT NOT IN CONTRACT T.S. TRANSITION STRIP PLASTIC LAMINATE TP **TOILET PARTITION TYPICAL** PORCELAIN TILE

CONCRETE SEALED CONCRETE RUBBER BASE CMU & GYP

INTERIOR FINISH NOTES

Mech Clo.

F1. ALL EXTERIOR WINDOWS SHALL RECEIVE BUILDING STANDARD WINDOW TREATMENT, UNLESS OTHERWISE NOTED.

F2. ALL FLOORING SHALL BE INSTALLED AS PER MANUFACTUR'S RECOMMENDATIONS REGARDING ADHESIVES, SEAMING, DIRECTIONS, ETC.

F3. ALL TRANSITIONS IN FLOOR MATERIALS SHALL OCCUR UNDER THE CENTERLINE OF THE CLOSED DOOR WHERE APPLICABLE.

F4. ALL WALLS SHALL BE PAINTED PNT-1, UNLESS OTHERWISE NOTED. ALL GRILLES, DIFFUSERS, AND ACCESS PANEL SHALL BE PAINTED TO MATCH THE WALL OR CEILING ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE NOTED.

F5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SAMPLES TO GSSTJ FOR APPROVAL PRIOR TO PURCHASE OF PRODUCT. THE SAMPLE MUST BE LABELED BEFORE SUBMITTTING TO GSSTJ.

F6. ALL INTERIOR FINISHES REQUIRED ARE INCLUDED IN THESE DRAWINGS. SOME PRODUCTS HAVE A LONGER LEAD TIME AND ARE NOT GUARANTEED TO BE IN STOCK. SUBCONTRACTORS SHALL PLACE ORDERS IMMEDIATELY UPON AWARD OF

PROJECT TO AVOID THE USE OF INTERMEDIATE FINISHES.

F7. SUBCONTRACTOR TO FURNISH AND INSTALL SCHLUTER FINISHING STRIPS FOR

EXPOSED UNFINISHED EDGES OF WALL TILE. SCHLUTER FINISHING STRIP FINISH SHALL MATCH FAUCETS.

F8. ALL FLOORING SHALL BE CENTERED IN ROOMS.

F9. UNEXPOSED PORTIONS OF CABINETS AND DRAWER INTERIORS SHALL BE WHITE MELAMINE.

F10. ALL PAINTED CEILINGS AND SOFFITS SHALL RECEIVE MANUFACTURER'S RECOMMENDEDPRIMER COAT AND TWO (2) COATS MINIMUM OF LATEX FLAT FINISH

F11. ALL PAINTED METAL SHALL RECEIVE MANUFACTURER'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MINIMUM OF LATEX SEMI-GLOSS FINISH.

F12. CONTRACTOR TO COMPARE THICKNESS OF SPORTS FLOORING IN EXISTING GYM WITH THICKNESS OF SPORTS FLOORING IN NEW GYM, AND INSTALL TRANSITION STRIPS AS REQUIRED.

F13. SILL DETAIL FOR NEW DOOR ON EXISTING GYM TO BE SIMILAR TO S2/A4.21

New Gymnasium for Union County

519 Industrial Boulevard Blairsville, Georgia 30512

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4 07/31/23 V.E. Revisions

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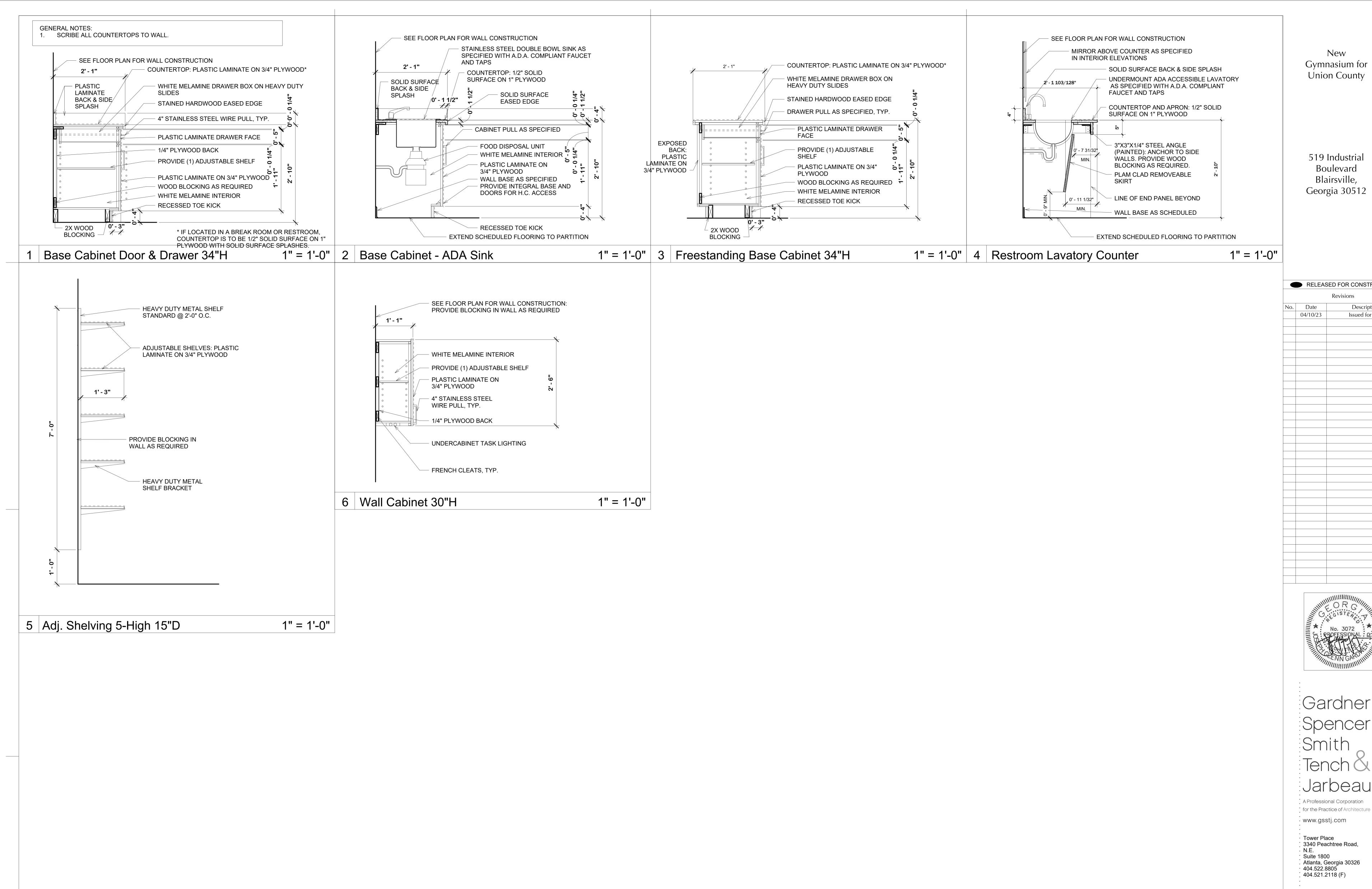
: Finish Plan

SHEET

PROJECT NO.

> SHEET TITLE

45.00 NO.



New Gymnasium for **Únion County**

519 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION Description Issued for Bid



Gardner Spencer Smith Tench & Jarbeau

Tower Place 3340 Peachtree Road, Suite 1800 Atlanta, Georgia 30326 404.522.8805

Casework Details TITLE

PROJECT

GENERAL NOTES

GENERAL:

- ALL CONSTRUCTION AND DESIGN SHALL BE IN ACCORDANCE WITH THE
 2018 INTERNATIONAL BUILDING CODE W/ GA. AMMENDMENTS.
 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT
- SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS (NEW AND EXISTING) BEFORE EXECUTING ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE EFFECTED PART OF THE WORK.
- 4. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE
- ARCHITECT/ENGINEER.

 5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING 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.

 6. 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.

 7. DETAILS SHOWN OR REFERENCED ON PLAN SHALL APPLY TO ALL CONDITIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER THEY ARE INDICATED ON PLAN OR NOT.

LOADS

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE W/ GA. AMMENDMENTS AND ASCE 7-16. THE FOLLOWING CRITERIA APPLY:

RISK CATEGORY =	III
ROOF LIVE LOAD = (DOES NOT INCLUDE MECHANICAL UNITS)	20 psf
ROOF DEAD LOAD = ROOF DEAD LOAD = (AVAILABLE TO RESIST UPLIFT)	20 psf 5 psf
FLOOR LIVE LOAD =	100 psf
GROUND SNOW LOAD, Pg = SNOW IMPORTANCE FACTOR, I =	10 psf 1.1
SEISMIC IMPORTANCE FACTOR, I = MAPPED SPECTRAL ACCELERATIONS: Ss = 0.346, S1 = 0.106	1.25
SITE CLASS (SOIL TYPE): SPECTRAL RESPONSE COEFFICIENTS: SDs = 0.351 , SD1 = 0.168	D (ASSUMED)
SEISMIC DESIGN CATEGORY: SEISMIC FORCE RESISTING SYSTEM:	С
STEEL SYSTEMS NOT SPECIFICALLY FOR SEISMIC RESISTANCE	DETAILED
RESPONSE MODIFICATION FACTOR, R: OVERSTRENGTH FACTOR, OMEGA: DEFLECTION AMPLIFICATION FACTOR, Cd: SEISMIC RESPONSE COEFFICIENT, Cs: DESIGN BASE SHEAR: ANALYSIS PROCEDURE:	3.0 3.0 3.0 0.146 34.0 k E.L.F. PROCEDURE
BASIC WIND SPEED (ULTIMATE) BASIC WIND SPEED (SERVICE) WIND EXPOSURE CATEGORY:	112 mph 87 mph C

COMPONENTS & CLADDING PRESSURES (ULTIMATE)

INTERNAL PRESSURE COEFFICIENT:

ZONE	1'	1	2	3	4	5
A=10	+16.0	+16.0	+16.0	+16.0	+31.4	+31.4
	-28.8	-50.1	-66.0	-90.0	-34.1	-42.1
A=20	+16.0	+16.0	+16.0	+16.0	+30.0	+30.0
	-28.8	-46.8	-21.8	-81.5	-32.6	-38.8
A=50	+16.0	+16.0	+16.0	+16.0	+28.2	+28.2
	-28.8	-42.4	-56.2	-70.3	-30.8	-35.0
A=100	+16.0	+16.0	+16.0	+16.0	+26.7	+26.7
	-28.8	-39.1	-52.0	-61.8	-29.4	-32.2

±0.18

A = EFFECTIVE WIND AREA IN SQ. FT. EDGE DISTANCE, a = 17'-6" (ROOF); 6'-9" (WALL) SEE ASCE 7 FOR ZONE LAYOUT AND LOADS ON PARAPETS

SHOP DRAWINGS:

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIC REQUIREMENTS OF THIS PROJECT.
- SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.
- 3. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT/ENGINEER. SHOP DRAWINGS SHALL BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
- 4. REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATIONS OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 5. SHOP DRAWING SUBMITTALS SHALL MADE ELECTRONICALLY. ALLOW TEN (10)
 WORKING DAYS FOR SHOP DRAWING. CONTRACTOR SHALL SCHEDULE
 WORK ACCORDINGLY AROUND THIS REVIEW TIME.
 6. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR
- SUBMITTALS OR SHOP DRAWINGS IS NOT PERMITTED AND SHALL RESULT IN REJECTION OF THAT SUBMITTAL OR SHOP DRAWING.

 7. CONTRACT DOCUMENTS WILL GOVERN OVER SUBMITTALS AND SHOP
- DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

 8. THE FOLLOWING SYSTEMS AND COMPONENTS REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A SPECIALTY ENGINEER: GLASS WALL SYSTEMS, ALUMINUM WALL SYSTEMS, AND PRE-ENGINEERED WOOD TRUSSES.

 9. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND
- APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION.

 CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCTS UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

 10. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE
- O. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE SPECIALTY ENGINEER.
 AND REQUIRE THE SEAL, DATE AND SIGNATURE OF THE SPECIALTY ENGINEER.
 COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL
 COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION.

EXISTING CONDITIONS:

- 1. WHERE EXISTING CONDITIONS ARE SHOWN THEY HAVE BEEN DERIVED FROM AVAILABLE DRAWINGS AND REPRESENT THE ENGINEER'S BEST ESTIMATE OF ACTUAL CONDITIONS. DEPICTED EXISTING CONDITIONS MAY NOT, IN ALL CASES, BE CORROBORATED BY FIELD INVESTIGATIONS.
- 2. ALL DIMENSIONS AND DETAILS OF EXISTING WORK INDICATED ON THE DRAWINGS SHALL BE FIELD MEASURED AND VERIFIED BEFORE PROCEDING WITH WORK. ANY DISREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
- NECESSARY PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB OR UNDERMINE ANY EXISTING BUILDING FOUNDATIONS OR STRUCTURE AND SHORING SHALL BE PROVIDED AS REQUIRED.
 CONTRACTOR SHALL NOT MODIFIY ANY EXISTING STRUCTURAL COMPONENTS WITHOUT PRIOR APPROVAL OF THE STRUCTUAL ENGINEER UNLESS SPECIFICALLY NOTED IN THE THESE DRAWINGS.

FOUNDATION:

- THE FOUNDATION DESIGN USES MINIMUM ALLOWABLE DESIGN CRITERIA DETERMINED BY 2018 IBC.
 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 FOOTINGS AND SLABS.

CONCRETE:

- 1. CONCRETE FOR ALL STRUCTURAL ELEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 psi, AND SHALL BE
- NORMAL WEIGHT. 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 1½" BELOW THE TOP OF SLAB AND PLACED OVER A
- 4" GRADED AGGREGATE BASE AND A MINIMUM 6 MIL VAPOR BARRIER.

 3. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL BE AIR ENTRAINED
- 5% +/-1.

 4. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- CONCRETE TEST REPORTS SHALL BE AVAILABLE AT THE JOB SITE.
 CURE ALL CONCRETE SURFACES FOR A PERIOD OF SEVEN DAYS UNTIL THE AVERAGE COMPRESSIVE STRENGTH HAS REACHED 70% OF THE SPECIFIED 28-DAY STRENGTH. CURING SHALL BE BY PONDING, MOIST CURING WITH SAND OR ABSORPTIVE MATS KEPT CONTINUOUSLY WET, CONTINUOUS APPLICATION OF STEAM (NOT EXCEEDING 105* F) OR MIST SPRAY, WATERPROOF CURING PAPER, OR LIQUID MEMBRANE FORMING CURING COMPOUND. SELECTION OF CURING METHOD SHALL BE COMPATIBLE
- WITH THE FINISH TO BE APPLIED TO THE CONCRETE SURFACE.

 7. WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO ONE INCH IN DIAMETER MAY BE EMBEDDED IN CONCRETE PER ACI 318 SECTION 6.3. SPACE AT THREE DIAMETERS ON CENTER. PLACE BETWEEN OUTER LAYERS OF REINFOCING IF CONDUITS ARE SIGNIFICANTLY CONGESTED. ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED LAYOUT AND BE SUMBITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

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
- 2. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 DEFORMED BARS, UNO. LAP SPLICE LENGTH SHALL BE A MINIMUM "CLASS B" TENSION SPLICE, UNO.
- WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A1064 AND
 SHALL BE LAPPED A MINIMUM OF 8" ON ALL SIDES AND SPLICES.
 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) 3"

FORMED CONCRETE EXPOSED TO EARTH OR WEATHER
#6 BARS AND LARGER 2"
#5 BARS AND SMALLER 1-1/2"

CONCRETE NOT EXPOSED TO EARTH OR WEATHER SLABS AND WALLS

6. 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	44	DIA.	38	DIA.	34	DIA.
	B	57	DIA.	49	DIA.	44	DIA.
#7 OR LARGER	A	55	DIA.	47	DIA.	42	DIA.
	B	71	DIA.	62	DIA.	55	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.

MASONRY:

- 1. MASONRY UNITS SHALL BE LIGHTWEIGHT (100 pcf MAX) CONFORMING TO ASTM C-90 AND SHALL HAVE A NET AREA COMPRESSIVE STRENGTH (f'm) OF 2,000 psi AT 28 DAYS. MORTAR SHALL BE TYPE "S" WITH A COMPRESSIVE STRENGTH OF NOT LESS THAN 1,800 psi AT 28 DAYS, AND SHALL CONFORM TO ASTM C-270. GROUT SHALL BE 3,000 psi MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM
- C-476. SUBMIT PROPOSED MIX DESIGN FOR REVIEW PRIOR TO USE.

 2. VERTICAL REINFORCING BARS SHALL BE CENTERED IN GROUT FILLED BLOCK CELLS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS OVER 2 FEET WIDE, AND AS SHOWN ON THE PLANS. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE. USE STEEL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE
- CONCRETE AND GROUT TO AREA REQUIRED.

 3. PROVIDE HORIZONTAL 8" DEEP BOND BEAM, GROUTED SOLID, WITH (2) #5
 CONT. REINFORCING BARS AT THE TOP OF ALL WALLS & AS SHOWN IN
 DRAWINGS. REINFORCING BARS SHALL BE CONTINUOUS THROUGH CONTROL
 JOINTS. PROVIDE (2) #5 x 2'-6" CORNER BARS AT ALL CORNERS AND
- INTERSECTIONS.
 4. REINFORCEMENT IN MASONRY WALLS SHALL HAVE LAP SPLICES IN
- CONFORMANCE WITH THE GOVERNING BUILDING CODE
 5. PROVIDE 9 GAUGE LADDER TYPE GALVANIZED HORIZONTAL JOINT REINFORCING
 (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK
- COURSES.

 6. BLOCK SHALL BE PLACED IN RUNNING BOND.

 7. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY
 CONSTRUCTION AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS.
 HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL
 JOINTS, BOND BEAM OR TIE BEAM REINFORCING SHALL BE CONTINUOUS
 THROUGH WALL CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR
- SEALANT REQUIREMENTS AT CONTROL JOINTS.

 8. UNLESS NOTED OTHERWISE, ALL MASONRY SHALL BE REINFORCED WITH #5 VERTICAL REINFORCEMENT IN GROUTED CELLS @ 48" O.C.

POST-INSTALLED ANCHORS:

- UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE
 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. POST-INSTALLED ANCHORS MAY NOT BE USED TO REPLACE MISSING, DAMAGED, OR MIS-PLACED CAST-IN-PLACE ANCHORS WITHOUT THE
- WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

 3. PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR AND EMBEDMENTS.
- 4. PROPER INSTALLATION OF POST—INSTALLED ANCHORS SHALL BE VERIFIED BY A QUALIFIED TECHNICIAN 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.
- 5. MECHANICAL SCREW ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC—ES AC193. ACCEPTABLE MECHANICAL SCREW ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

 * HILTI KWIK HUS—EZ (ICC—ES ESR 3027)
- * DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)

 * SIMPSON STRONG-TIE TITEN HD (ICC-ES ESR 2713)

 6. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58.

ACCEPTABLE ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE

- * HILTI HY-270 (ICC-ES ESR-4143)
 * SIMPSON STRONG-TIE SET-XP (IAPMO UES ER-265)
- * DEWALT AC100+ (ICC-ES ESR-4105)

 7. MECHANICAL SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY
 SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106.
 ACCEPTABLE MECHANICAL SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE
 MASONRY INCLUDE THE FOLLOWING:
- MASONRY INCLUDE THE FOLLOWING:

 * HILTI KWIK HUS-EZ (ICC-ES ESR 3056)

MASONRY INCLUDE THE FOLLOWING:

* DEWALT SCREW-BOLT+ (ICC-ES ESR-4042)

* SIMPSON STRONG-TIE TITEN HD (ICC-ES ESR 1056)

STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL SHALL CONFORM TO "THE SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE "MANUAL OF STEEL CONSTRUCTION" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.
- 2. MATERIAL REQUIREMENTS, UNO:

 a. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. CHANNELS,
 PLATES AND OTHER MISC. SHAPES SHALL CONFORM TO ASTM A36.
 b. STRUCTURAL TUBING (HSS) SHALL CONFORM TO ASTM A500, GRADE C,
 Fy = 50 ksi. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53
 GRADE B, TYPE E OR S, Fy = 35 ksi.
- GRADE B, TYPE E OR S, Fy = 35 ksi.

 c. BOLTED CONNECTIONS SHALL CONSIST OF A MINIMUM 3/4" DIAMETER ASTM F3125 A325 HIGH STRENGTH BOLTS.

 d. WELDING ELECTRODES SHALL CONFORM TO AWS 5.1 OR A5.5 E-70XX (LOW-HYDROGEN FOR SMAW WELDING).

 e. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 THREADED
- RODS, UNO

 f. GROUT BELOW BASE PLATES SHALL BE HIGH-STRENGTH, NON-SHRINK,
 NONSTEELLIC GROUT, WITH A 28 DAY MINIMUM COMPRESSIVE STRENGTH
 OF 7,000 PSI

 q. HEADED ANCHORS FOR OTHER THAN COMPOSITE FLOOR SYSTEM SHALL

BE 34" DIAMETER WITH AN AFTER WELD LENGTH OF 5" AND SHALL

- CONFORM TO ASTM A108, UNLESS NOTED OTHERWISE.

 3. BEAM CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE REACTIONS SHOWN ON THE PLANS BUT CONNECTIONS SHALL NOT HAVE LESS THAN 2 ROWS OF BOLTS NOR BE DESIGNED FOR LESS THAN 10 KIPS (LRFD). CONNECTIONS SHALL BE DESIGNED AS BEARING—TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE. SUBMIT CALCULATIONS, SIGNED AND SEALED, BY AN ENGINEER LICENSED AND INSURED IN THE STATE OF GEORGIA.
- 4. ALL BRACING CONNECTIONS SHALL DEVELOP THE FORCE NOTED ON THE DRAWINGS. IF FORCE IS NOT NOTED ON DRAWINGS, THE BRACING CONNECTION SHALL DEVELOP THE ALLOWABLE TENSION FORCE IN THE MEMBER. BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS WILL BE TRANSMITTED DIRECTLY TO THE CENTER OF GRAVITY OF INTERSECTING MEMBERS. WHERE THIS IS NOT POSSIBLE, CONNECTIONS SHALL BE DESIGNED FOR ALL RESULTING ECCENTRICITIES, BOLTED BRACING CONNECTIONS SHALL BE CONNECTED WITH A MINIMUM OF TWO BOLTS. GUSSET PLATES SHALL BE DESIGNED BY THE FABRICATOR. SUBMIT CALCULATIONS, SIGNED AND SEALED, BY AN ENGINEER LICENSED AND INSURED IN THE STATE OF GEORGIA
- 5. ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED, SEATED END, OR SINGLE-PLATE SHEAR CONNECTIONS AS SHOWN IN PART 10 OF THE AISC
- MANUAL OF STEEL CONSTRUCTION.

 6. 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.

 7. WELDING SHALL BE PERFORMED BY WELDERS WITH CURRENT CERTIFICATION USING ASTM E70 SERIES LOW HYDROGEN ELECTRODES. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. FABRICATION SHOP DRAWING SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS. SHOP DRAWINGS SHALL DETAIL ALL SHOP AND FIELD WELDS. SHOP AND FIELD WELD SHOWN ON DRAWINGS FOR CONCEPT, GENERAL CONTRACTOR SHALL COORDINATE WELDING SEQUENCE REQUIREMENTS.
- 8. PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.
 9. STEEL SHALL RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF
- APPROVED PAINT, EXCEPT WHERE STEEL IS ENCASED IN CONCRETE OR FIREPROOFING, CONNECTIONS DESIGNATED AS SLIP—CRITICAL TYPE, OR STEEL TO BE GALVANIZED.

 10. UNLESS NOTED OTHERWISE, ALL EXPOSED STRUCTURAL AND MISCELLANEOUS STEEL, PLATES, BOLTS, AND ANCHORS SHALL BE GALVANIZED OR PAINTED WITH APPROVED RUST INHIBITING PRIMER. CLEAN AREAS WHERE GALVANIZING
- IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A 780.

 11. ALL MEMBERS NOTED AS "AESS" SHALL COMPLY WITH THE CLASSIFICATION NOTED IN ACCORDANCE WITH AISC DEFINITIONS OR THE ARCHITECTURAL SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. SEE ARCH. FOR ALL

PAINTING AND PREPARATION REQUIREMENTS AND MATERIAL SPECIFICATIONS.

12. HSS MEMBERS SHALL HAVE A MINIMUM ¼" PLATE WELDED TO END OF SECTION UNO.
13. PLACE A HIGH-STRENGTH NON-METALLIC NON-SHRINK GROUT (MINIMUM 6,000 PSI) CONFORMING TO ASTM C1107 UNDER BASEPLATES AFTER SETTING AND LEVELING.

STEEL ROOF DECK:

1. STEEL ROOF DECK SHALL BE 1.5", 22 GAUGE, Fy=50ksi G-60 GALVANIZED WIDE RIB, ACOUSTICAL TYPE "BA" (3 SPAN MIN. CONDITION). ROOF DECK SHALL BE ATTACHED PER PLANS USING %" PUDDLE WELDS AND #10 SIDELAP SCREWS 24" O.C. MAX. FASTEN DECK EDGES AND TO PARALLEL FRAMING AT 12" O.C. SEE ARCH. FOR REQUIRED FINISHES/COATINGS.

OPEN WEB STEEL JOISTS:

- STEEL JOIST CONSTRUCTION SHALL CONFORM TO STEEL JOIST INSTITUTE LOAD TABLES, "STANDARD SPECIFICATIONS", AND "CODE OF STANDARD PRACTICE".
 IN ADDITION TO DEAD AND LIVE LOADS, STEEL ROOF JOISTS SHALL BE DESIGNED AND FABRICATED TO RESIST A NET WIND UPLIFT OF 15 PSF
- (SERVICE LOAD), UNLESS NOTED OTHERWISE.
 3. ALL JOISTS SHALL BE DESIGNED FOR A CONCENTRATED LIVE BEND LOAD OF 200 POUNDS LOCATED AT ANY POSITION ALONG THE TOP OR BOTTOM CHORD CONCURRENTLY WITH ALL OTHER DESIGN LOADS.
 4. SUBMIT SHOP DRAWINGS COMPLETELY DETAILING THE JOISTS FOR ERECTION. INCLUDE BRIDGING AND CONNECTIONS. ANY CALCULATIONS SHALL BE SEALED

SIGNED AND DATED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT

5. K-SERIES ROOF JOISTS SHALL HAVE SEATS DESIGNED FOR 200# ROLLOVER FORCE (WIND/SERVICE) UNLESS NOTED OTHERWISE.

LIGHT GAUGE STEEL FRAMING:

CONCEPT ONLY.

BOARD OR SHEATHING.

- 1. LIGHT GAUGE STEEL FRAMING SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRINCIPLES AND GOVERNING CODES. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. SHOP DRAWINGS SHALL BE SUBMITTED WHICH BEAR THE SIGNATURE, DATE, AND SEAL OF THE ENGINEER. SHOP DRAWINGS SHALL CLEARLY INDICATE CONNECTIONS AND MATERIALS USED. SECTIONS AND DETAILS SHOWN ON THE DRAWINGS ARE FOR
- 2. LIGHT GAGE STEEL FRAMING SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION SHOWING WALL SECTIONS COORDINATED WITH DRAWINGS SHOWING FRAMING, ACCESSORIES, ANCHORAGE AND CONNECTION DETAILS.
- 3. MATERIAL SPECIFICATIONS FOR LIGHT-GAGE STEEL:
 16 GA. OR HEAVIER: ASTM A-446, Fy = 50 KSI MIN.
- 18 GA. OR LIGHTER: ASTM A-446, Fy = 33 KSI MIN.
 4. GALVANIZING: MINIMUM G-60 COATING
 5. ALL STUDS AND JOIST MEMBERS SHALL BE STRUCTURAL (12 TO
- 20 GAUGE), AND HAVE STIFFENED FLANGES.
 6. CONNECTION MATERIAL GAGE MATCH STUD GAGE U.N.O. CLIP ANGLES SHALL BE 14 GA. MINIMUM.
- 7. BUILT-UP MEMBERS FASTEN TOGETHER WITH 1" LONG STITCH WELDS
 OR #10 SCREWS AT 12" O.C. MAXIMUM, EACH FLANGE, AND EACH TRACK.
 8. PROVIDE BRIDGING AT 5ft MAXIMUM VERTICAL SPACING IN WALLS.
- 9. SPLICING OF MEMBERS SPANNING BETWEEN SUPPORTS SHALL NOT BE PERMITTED.
 10. PROVIDE DEEP TRACK ASSEMBLY OR SLIDE CONNECTIONS AT TOPS OF ALL NON-LOAD BEARING STUD WALLS TO ALLOW FOR MOVEMENT OF
- 11. DESIGN COLD—FORMED STEEL FRAMING SYSTEMS TO WITHSTAND THE DESIGN LOADS WITHOUT EXCEEDING THE FOLLOWING DEFLECTION CRITERIA:

 MEMBERS SUPPORTING MASONRY L/600 OR 1/2" MAXIMUM

 MEMBERS SUPPORTING OTHER MATERIAL L/360 OR 1" MAXIMUM

STRUCTURE. ARCHITECT SHALL REVIEW IN PLACE STEEL STUD

CONSTRUCTION PRIOR TO THE INSTALLATION OF GYPSUM WALL

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 BETWEEN PRE-ENGINEERED TRUSSES SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS ENGINEER. AN ERECTION DRAWING SHALL BE INCLUDED, IDENTIFYING TRUSS SYSTEM COMPONENTS, AS WELL AS PERMANENT BRACING REQUIRED FOR TRUSS DESIGN. BRACE IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE/STRUCTURAL BUILDING COMPONENT ASSOCIATION "BUILDING COMPONENT SAFETY INFORMATION"
- BCSI-13 GUIDELINES AND RELATED SUMMARY SHEETS.

 2. ENGINEERED SHOP DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AS THE SPECIALTY ENGINEER. ALL PRE-ENGINEERED TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER
- BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL EN OF RECORD.

 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

 BOTTOM CHORD DEAD LOAD

 TOP CHORD LIVE LOAD

 BOTTOM CHORD LIVE LOAD, U.N.O.

 O PSF
- 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

INFORMATION AND LOCATION. LOADING REQUIRED BY OTHER

SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.

7. ANY REPAIRS OR MODIFICATIONS OF THE PRE-ENGINEERED TRUSSES OR

TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS

AND SPECIFICATIONS ALONG WITH ROOF FRAMING PLAN FOR LOADING

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.

ABBREVIATIONS

	ABB	KEVIATI	UNS
AB	– ANCHOR BOLT	INICO	INCODMATION
ALT	- ALTERNATE	INFO	- INFORMATION
APPROX	- APPROXIMATELY	INT	- INTERIOR
ARCH	- APPROXIMATELY - ARCHITECT	JT	- JOINT
ARCHL		KJ	 CONSTRUCTION JOINT
	- ARCHITECTURAL	L	- ANGLE
B/	- BOTTOM OF	LG	- LONG
BGPE	- BOB GOODMAN, PE	LLH	 LONG LEG HORIZONTAL
BLDG	- BUILDING	LLV	LONG LEG VERTICAL
ВМ	- BEAM	LP	- LOW POINT
BOS	- BOTTOM OF STEEL	LW	- LONG WAY
BOTT	- BOTTOM	MFR	- MANUFACTURER
BRG	- BEARING	MAS	- MASONRY
C/C	 CENTER TO CENTER 		
CH	CHANNEL	MO	- MASONRY OPENING
CIP	CAST IN PLACE	MATL	- MATERIAL
CJ	 CONTRACTION JOINT 	MAX	- MAXIMUM
CL	- CENTERLINE	MEP	MECHANICAL/ELECTRICAL/PLUMBIN
CLR	- CLEAR	MIN	- MINIMUM
CMU	- CONCRETE MASONRY UNIT	MISC	- MISCELLANEOUS
COL	- COLUMN	NS	- NEAR SIDE
CONC	- CONCRETE	NIC	NOT IN CONTRACT
		NTS	 NOT TO SCALE
CONFIG	- CONFIGURATION	0/C	ON CENTER
CONT	- CONTINUOUS	о́н	- 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	•	- POUNDS PER SQUARE INCH
DN	- DOWN	psi PT	
DWG	DRAWING		
EA	– EACH	REINF	•
EE	EACH END	REM	- REMAINDER
EF	EACH FACE	REQD	- REQUIRED
EJ	- EXPANSION JOINT	REV	REVISED/REVISION
EL	- ELEVATION	RO	 ROUGH OPENING
ELEV		SCHED	- SCHEDULE
EOD		SECT	- SECTION
EOS	- EDGE OF SLAB	SIM	- SIMILAR
		SQ	- SQUARE
EQ	- EQUAL	STD	STANDARD
EW	- EACH WAY	SW	SHEARWALL/SHORT WAY
EXIST	- EXISTING	STL	,
EXP	— EXPANSION	STRUCT	
FIN	— FINJSH	TG	- TRUSS GIRDER
FLR	– FLOOR	TO	- THRU OUT
FND	FOUNDATION	T /	
FOM	FACE OF MASONRY	T/	- TOP OF
FS	- FAR SIDE	ŤOC	- TOP OF CONCRETE
FT	- FOOT	T	- TOP
FTG	- FOOTING	TEMP	
GA	- GAUGE	TOS TRC	
GALV	- GAUGE - GALVANIZED	TRC	- TRC WORLDWIDE ENGINEERING, INC.
GALV		TYP	- TYPICAL
	- GENERAL CONTRACTOR	UNO	- UNLESS NOTED OTHERWISE
HC	- HOLLOW CORE	VERT	– VERTICAL
HG	- HIP GIRDER	W/	- WITH
LIADIZ	LIODIZONITAL	WD	WOOD

ITEM	SYMBOL	ITEM	SYMBOL
CONCRETE	A first transfer of the second	TOP OF FOOTING ELEVATION	<u>-1'-8</u>
EARTH		SPOT ELEVATION	+0'-0"
CONCRETE BLOCK (CMU)		STEP IN FTG OR GRADE BM	() 8"
BRICK		CENTERLINE BEAM SPLICE	
	4	NUMBER (PRECEDING)	#, NO.
SECTION INDICATOR	(S-5)	PLUS OR TENSION	+
	3-3	MINUS OR COMPRESSION	-
DETAIL INDICATOR		POUNDS (FOLLOWING)	#
DETAIL INDICATOR	\$6.0	0.750 0.700705	
	<u> </u>	STEP IN STRUCTURE OR DEPRESSED SLAB	OR 4"

FOOTING TYPE	F4.5	TOP OF STEEL ELEVATION OR JOIST BEARING (JBE)	T/STL EL. +20'-8"
TOP OF FOOTING ELEVATION	$\int -2'-0"$	OR JOIST BEARING (JBE)	(+20'-0")
	J	BOTTOM OF DECK ELEVATION	B/DECK EL. +20'-8"
COLUMN TYPE	<u>C3</u>		

WOOD

EGEND

WELDED WIRE FABRIC

HORIZ

HORIZONTAL

- ISOLATION JOINT

HIGH POINT



New Gymnasium for Union County

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

No. Date Description

04.10.23 Bid Set

07.31.23 Permit Set

No. SE000762
STRUCTURAL

ENGINEER

E

07/27/2023

Gardner
Spencer
Smith
Tench &

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

SHEET TITLE

General Notes

SHEET N

PROJECT NO.

SPECIAL INSPECTIONS NOTES:

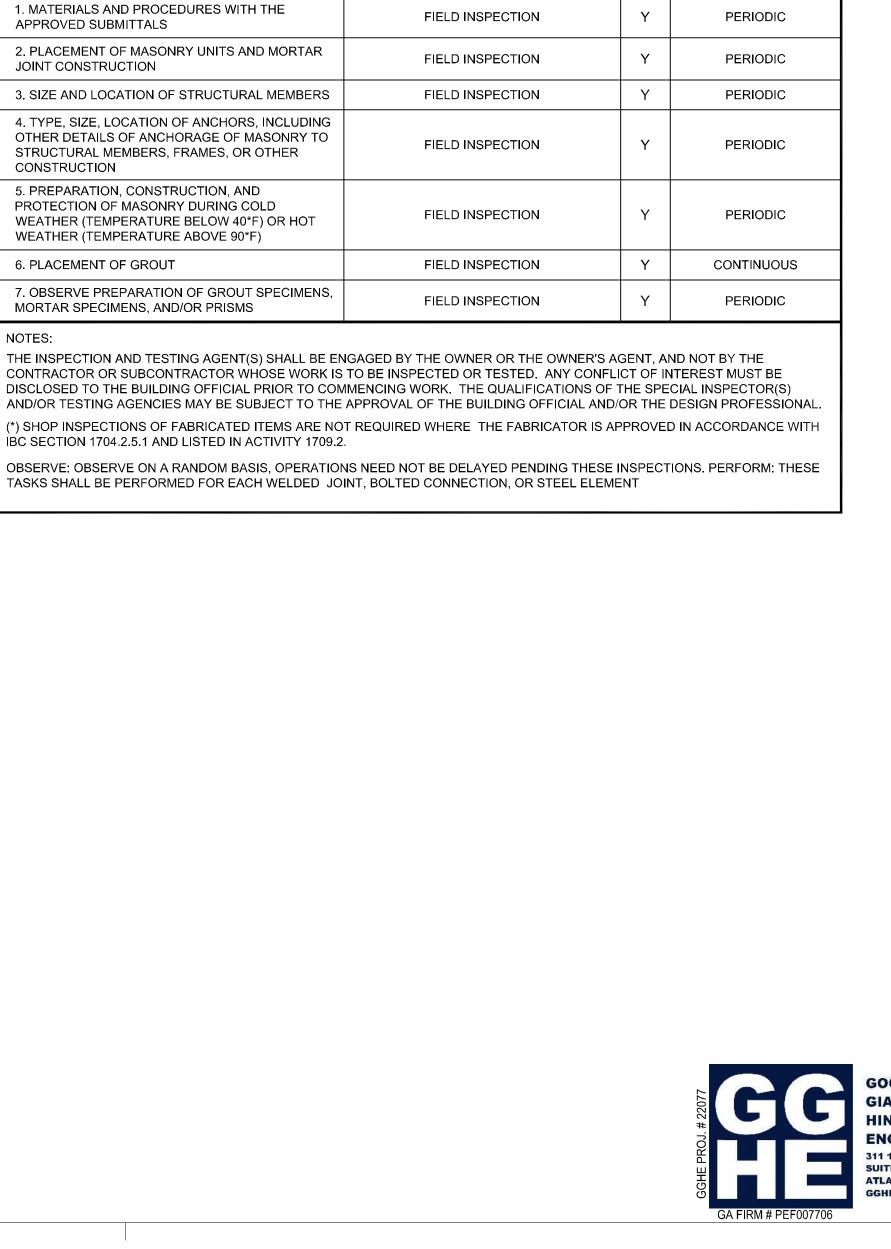
- 1. DURING CONSTRUCTION, SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705 OF THE IBC. AN APPROVED SPECIAL INSPECTOR WITH QUALIFICATIONS SATISFACTORY TO THE BUILDING OFFICIAL SHALL PERFORM SPECIAL INSPECTIONS. ALL SPECIAL STRUCTURAL INSPECTION REPORTS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

FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 300, SECTION IN 3.2 FOR COMPILANCE WITH CONSTRUCTION DOCUMENTS) MATERIAL VERIFICATION OF STRUCTURAL STEEL SHOP' AND FIELD INSPECTION Y STRUCTURAL STEEL WELDING: 1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N5.4-1 2. INSPECTION TASKS DURING WELDING PER AISC 360 TABLE N5.4-2 3. INSPECTION TASKS DURING WELDING PER AISC 360 TABLE N5.4-2 4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS A. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV B. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1 D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT STRUCTURAL STEEL BOLTING: 1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE OS PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-2) A. PRE-TENSIONED & SLIP CRITICAL JOINTS 1) TURN-OF-NUT WITH MATCHING MARKINGS 2 DIRECT TENSION INDICATOR 3) TWIST-OFF TYPE TENSION CONTROL BOLT 4. ALTIPAL OF AUX THAT AUTHING	PERIODIC OR AS REQUIRED BY THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE EACH SUBMITTAL PERIODIC OBSERVE OR PERFORM AS NOTED OBSERVE OR PERFORM AS NOTED PERIODIC PERIODIC PERIODIC OBSERVE OR PERFORM AS NOTED
SOLID GROUTED MASONRY. PER RESEARCH REPORTS INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE GLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, MASONRY UNIT, GROUT, MASONRY COMPRESSIVE STENCH, ANCHOR EMBEDMENT AND TIGHTENING TORQUE 1705.2.1 STEEL CONSTRUCTION FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, SECTION N. 3.2 POR COMPLIANCE WITH CONSTRUCTION OF STRUCTURAL STEEL SHOP* AND FIELD INSPECTION Y STRUCTURAL STEEL WELDING: 1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE NS.4-1 2. INSPECTION TASKS DURING WELDING PER AISC 360 TABLE NS.4-2 3. INSPECTION TASKS FIRE WELDING PER AISC 360 TABLE NS.4-2 3. INSPECTION TASKS AFTER WELDING PER AISC 360 TABLE NS.4-3 4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS A. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III OR IV B. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III OR IV B. COMPLETE PENETRATION GROOVE WELDS 5/16* OR GREATER IN RISK CATEGORY III OR IV C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1 D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO BOLTING (OBSERVE, OR PERFORM SAST AND ACCORDANCE WITH OA TASKS ISTEED BOLTING: C. WELDED JOINTS SUBJECT TO BOLTING (OBSERVE IN ASC 300, APPENDIX 3, TABLE A-3.1) D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FATIGUE WHEN FABRICATOR PERFORMS NDT C. WELDED JOINTS SUBJECT TO FA	REQUIRED BY THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE EACH SUBMITTAL PERIODIC OBSERVE OR PERFORMAS NOTED OBSERVE OR PERFORMAS NOTED PERIODIC PERIODIC PERIODIC PERIODIC OBSERVE OR PERFORMAS NOTED
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3) TWIST-OFF TYPE TENSION CONTROL BOLT 4) TURN OF NUT WITHOUT MATCHING	PERIODIC
4) TURN OF NUT WITHOUT MATCHING	PERIODIC
4) TURN-OF-NUT WITHOUT MATCHING	PERIODIC
MARKINGS Y	CONTINUOUS
5) CALIBRATED WRENCH Y	CONTINUOUS
B. SNUG TIGHT JOINTS Y	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)	PERFORM
VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE SHOP* AND FIELD INSPECTION Y RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING	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 CONNECTION COMPLY WITH CONSTRUCTION DOCUMENT Y	PERIODIC
1705.6 SOILS	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING FIELD INSPECTION Y	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER FIELD INSPECTION Y	PERIODIC
PERFORM CLASSIFICATION AND TESTING OF	PERIODIC
COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS, DENSITIES,	FERIODIC
AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	CONTINUOUS
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY Y	_

MATERIAL / ACTIVITY	SERVICE	APPLI Y/N	CABLE TO THIS PRO EXTENT
1705.3 CONCRETE CONSTRUCTION		1710	ZXIZIVI
INSPECTION AND PLACEMENT VERIFICATION OF			PERIORIO
REINFORCING STEEL	SHOP* AND FIELD INSPECTION	Y	PERIODIC
INSPECTION OF ANCHORS CAST IN CONCRETE.	SHOP* AND FIELD INSPECTION	Y	PERIODIC
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER RESEARCH REPORTS, OR, IF NO SPECIFIC REQUIREMENTS ARE PROVIDED, REQUIREMENTS SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL AND APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE	FIELD INSPECTION	Y	PERIODIC OR A REQUIRED BY T RESEARCH REPO ISSUED BY AN APPROVED SOUI
1. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD-INCLINED ORIENTATION THAT RESIST SUSTAINED TENSION LOADS.		N	CONTINUOUS
2. MECHANICAL AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED IN NOTE 1.		Y	PERIODIC
VERIFY USE OF APPROVED DESIGN MIX	SHOP* AND FIELD INSPECTION	Y	PERIODIC
PRIOR TO PLACEMENT, FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE AND PERFORM ANY OTHER TESTS AS SPECIFIED IN CONSTRUCTION DOCUMENTS.	SHOP* AND FIELD INSPECTION	Y	CONTINUOUS
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP* AND FIELD INSPECTION	Y	CONTINUOUS
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP* AND FIELD INSPECTION	Y	PERIODIC
ERECTION OF PRECAST CONCRETE MEMBERS		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	Y	PERIODIC
CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Y	PERIODIC
1. VERIFY COMPLIANCE WITH APPROVED		,,	PRIOR TO
SUBMITTALS 2. VERIFICATION OF F'M AND F'AAC PRIOR TO	SUBMITTAL REVIEW TESTING BY UNIT STRENGTH METHOD	Y	
2. VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION 3. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD TESTING BY UNIT STRENGTH METHOD	Y	CONSTRUCTIO PRIOR TO
2. VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION 3. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Y	CONSTRUCTIO PRIOR TO CONSTRUCTIO
2. VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION 3. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT AS MASONRY CONSTRUCTION BEGINS: 1. VERIFY PROPORTIONS OF SITE PREPARED	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD TESTING BY UNIT STRENGTH METHOD	Y	CONSTRUCTIO PRIOR TO CONSTRUCTIO
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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.

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



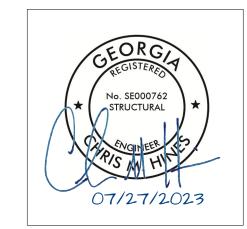
Union County

Gymnasium for

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

	Revisions												
lo.	Date	Description											
	04.10.23	Bid Set											
	07.31.23	Permit Set											



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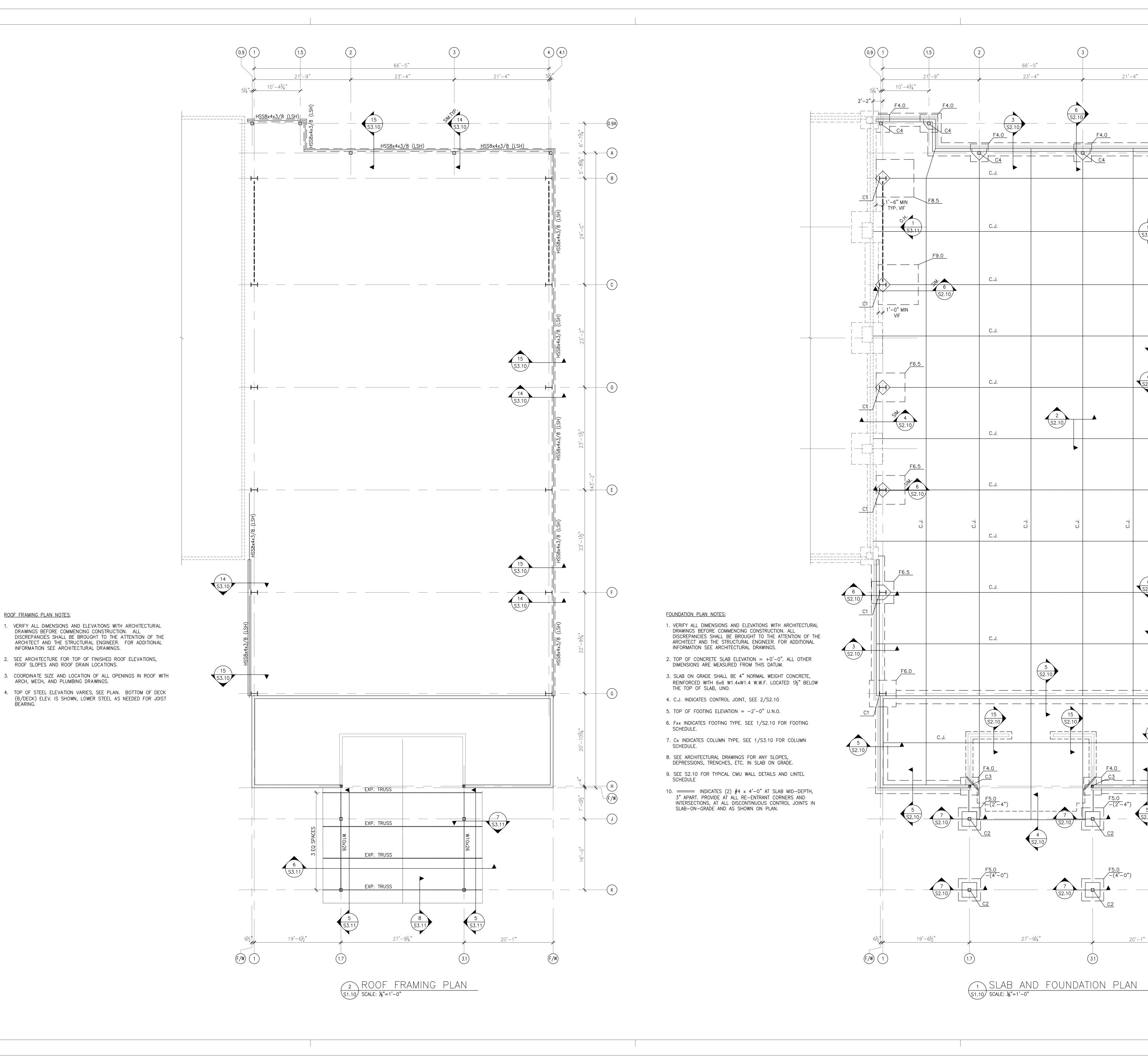
· Tower Place 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 . 404.521.2118 (F)

22102

PROJECT NO.

SHEET TITLE

SUITE 2 ATLANTA, GA 30318 GGHEngineers.com



ROOF FRAMING PLAN NOTES:

INFORMATION SEE ARCHITECTURAL DRAWINGS.

ROOF SLOPES AND ROOF DRAIN LOCATIONS.

ARCH, MECH, AND PLUMBING DRAWINGS.

Gymnasium for Union County

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

Revisions Date Description 04.10.23 Bid Set 07.31.23 Permit Set

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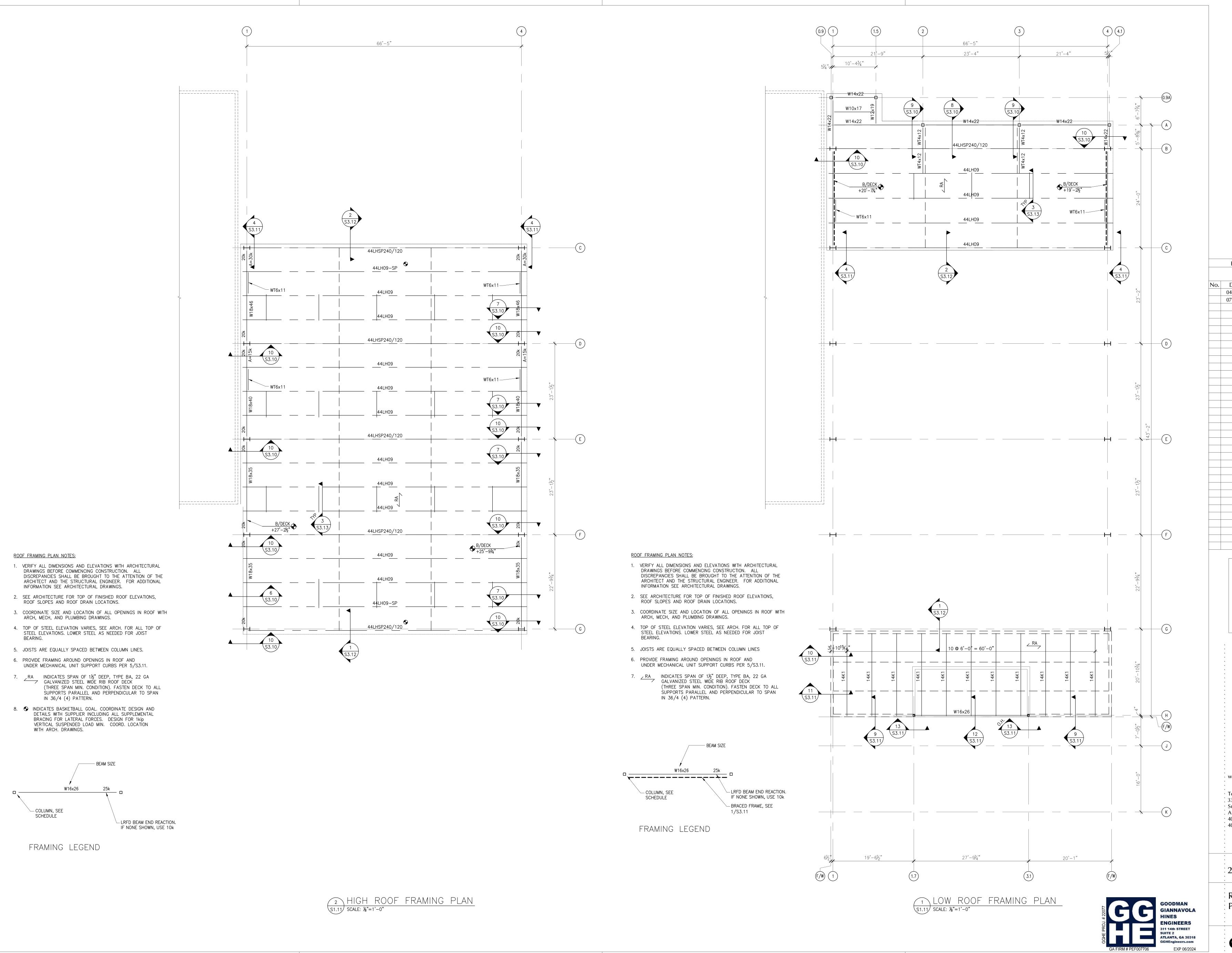
PROJECT NO. 22102

311 14th STREET SUITE 2 ATLANTA, GA 30318 GGHEngineers.com

EXP 06/2024

SHEET TITLE Foundation and

Canopy Framing Plans



New Gymnasium for Union County

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

Revisions

Date Description
04.10.23 Bid Set
07.31.23 Permit Set

Mo. SE000762
STRUCTURAL

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07/27/2023

Gardner Spencer Smith

Jarbea

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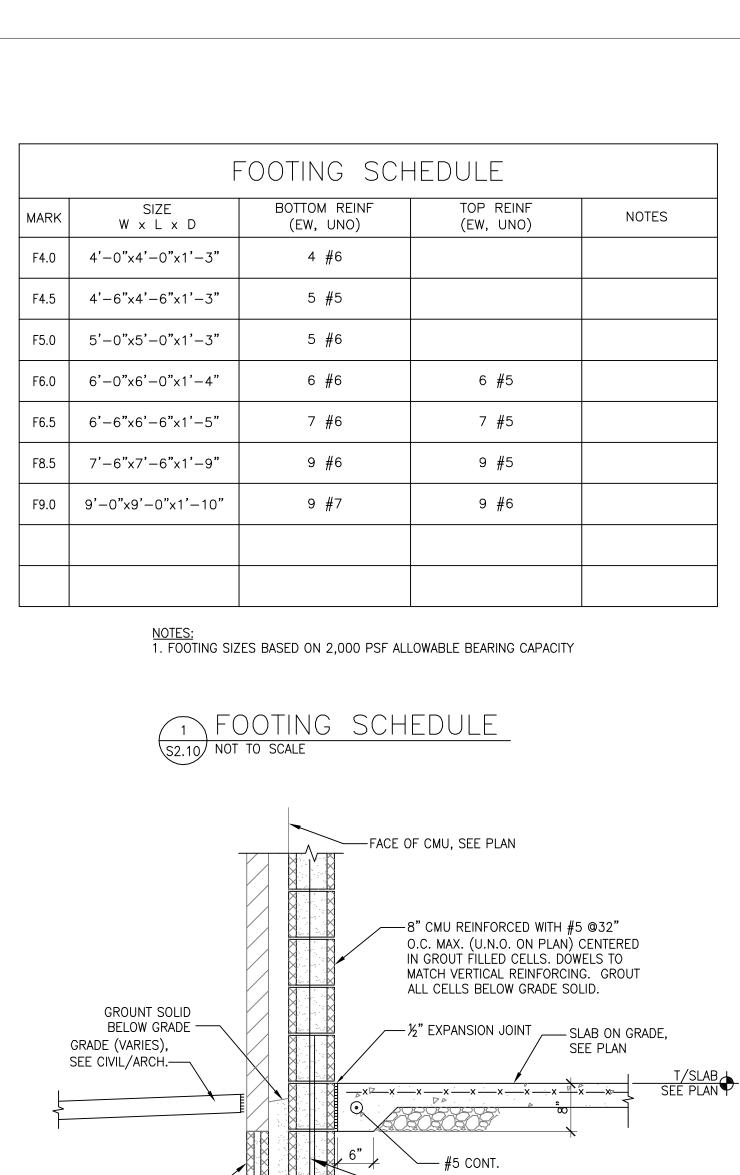
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Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

: : 22102

Roof Framing
Plans

PROJECT NO.



#5 CONT.

REINFORCING

__ #5 @48" O.C.

2'-8"

5 WALL FOOTING DETAIL
S2.10 SCALE: 3/4"=1'-0"

SEE PLAN, SECTIONS, AND GENERAL NOTES

FOR TYP. VERT. REINF.

T/WALL

#5 @ WALL ENDS, CORNERS, OR WCJ —/

24" OR 40x BARØ MIN.

T/FTG SEE PLAN

(TYP) OR 90* HOOK _

1 #5 MIN. _____

DOWELS TO MATCH VERT.

TYP. SEE 13/S2.10 FOR LAP LENGTH

- DOWEL TO MATCH VERTICAL

CONC. FOOTING,

CORNER BARS.

DEVELOP BARS IN ADJACENT

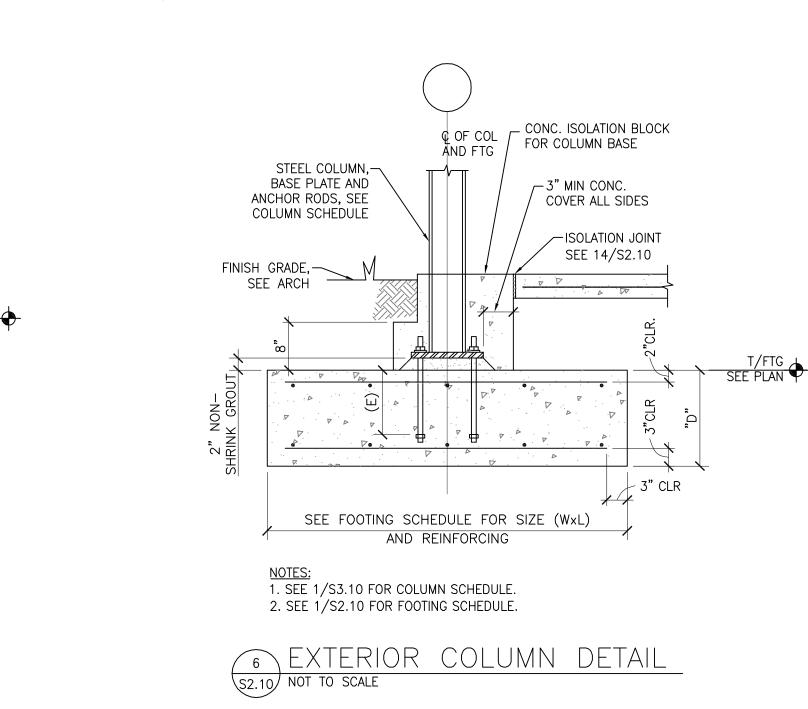
/- BOND BEAM w/ 2#5 MIN.

SCHEDULE

NOTE: HORIZ. JOINT REINF. NOT SHOWN

FOOTINGS AND PROVIDE

CONT.



SLAB-ON-GRADE,

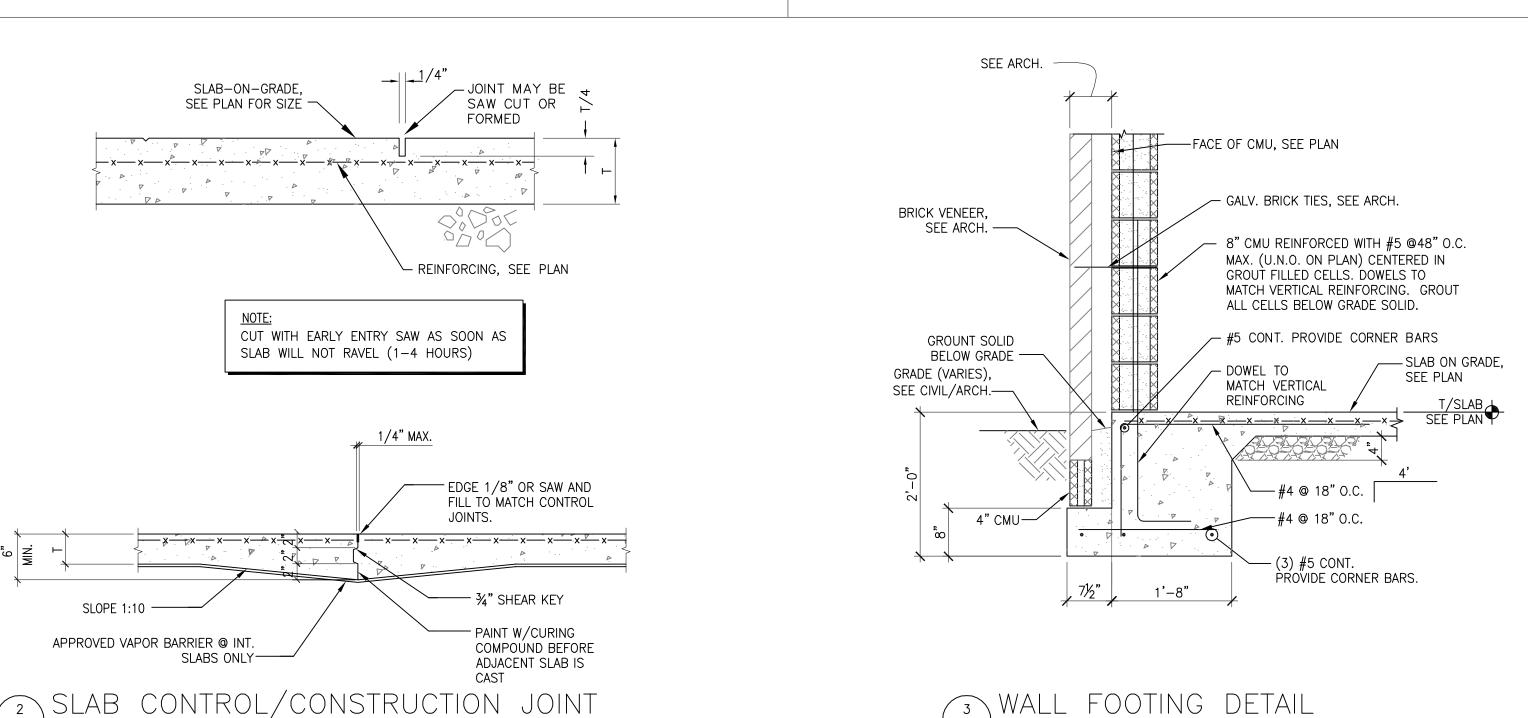
SEE PLAN FOR SIZE

SLOPE 1:10 ---

S2.10 SCALE: 3/4"=1'-0"

APPROVED VAPOR BARRIER @ INT.

SLABS ONLY-



\$2.10 SCALE: 3/4"=1'-0"

SEE ARCH. SEE ARCH.

SEE FOOTING SCHEDULE FOR SIZE (WxL)

AND REINFORCING

7 CANOPY FOOTING DETAIL

NOTES:
1. SEE 1/S3.10 FOR COLUMN SCHEDULE.

2. SEE 1/S2.10 FOR FOOTING SCHEDULE

-STEEL COLUMN,

BASE PLATE AND

ANCHOR RODS, SEE

—CONC. PIER. TOP OF PIER TO

MATCH TOP OF ADJACENT

GRADE, SEE ARCH/CIVIL

COLUMN SCHEDULE

8" CMU W/ #5 EA.

VENEER, SEE ARCH.

GROUT SPACE SOLID

SEE ARCH-

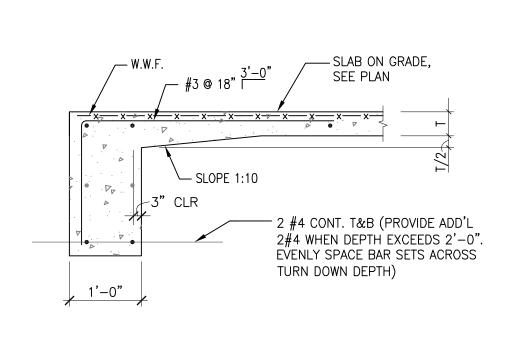
FINISH GRADE,

#4 TIES @12" O.C.

BELOW GRADE -

CORNER. PROVIDË WIRE

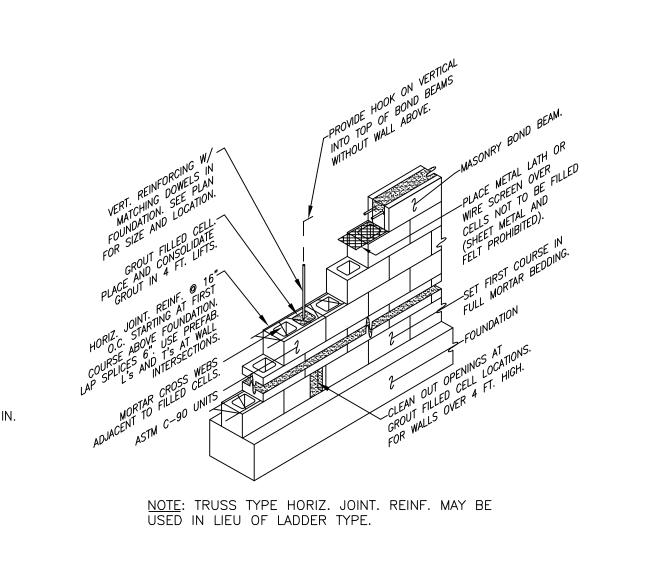
TIE TO COLUMN @ 24"



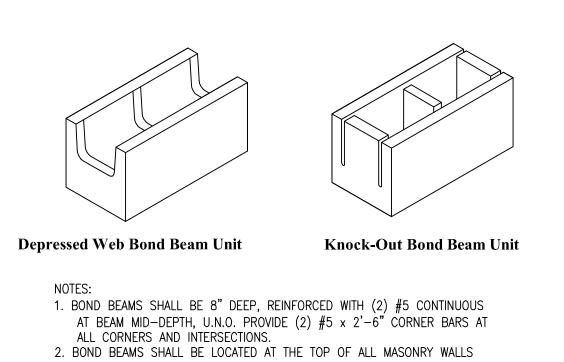
TYPICAL SLAB EDGE AT STOREFRONT \$2.10 SCALE: 3/4"=1'-0"

MAX. CLEAR SPAN	DEPTH	BOTTOM BARS	INTERMEDIATE BARS	TOP BARS	JAMB
4'-0"	16"	2 #4		2 #4	1 #5
6'-0"	16"	2 #5		2 #5	2 #5 (1 PER CELL
8'-0"	24"	2 #5	2 #5	2 #5	2 #5 (1 PER CELL
10'-0"	32"	2 #5	2 #5	2 #5	3 #5 (1 PER CELL
SCHED	ULED TOP B CONTINU SEE NO	ARS PAI	 	TOP BARS TO	
	2,00		2		

8 CMU LINTEL SCHEDULE
S2.10 NOT TO SCALE

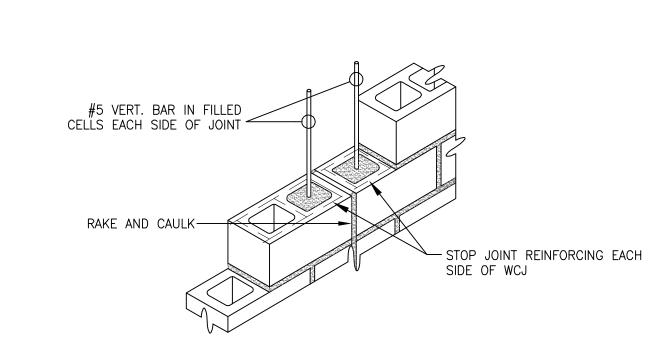


10 TYP. MASONRY WALL CONSTRUCTION

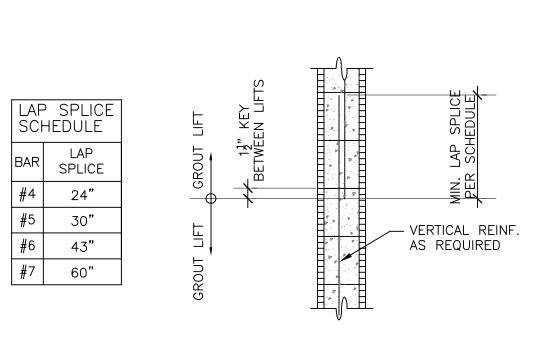


AND AS INDICATED IN SECTIONS AND DETAILS, U.N.O.

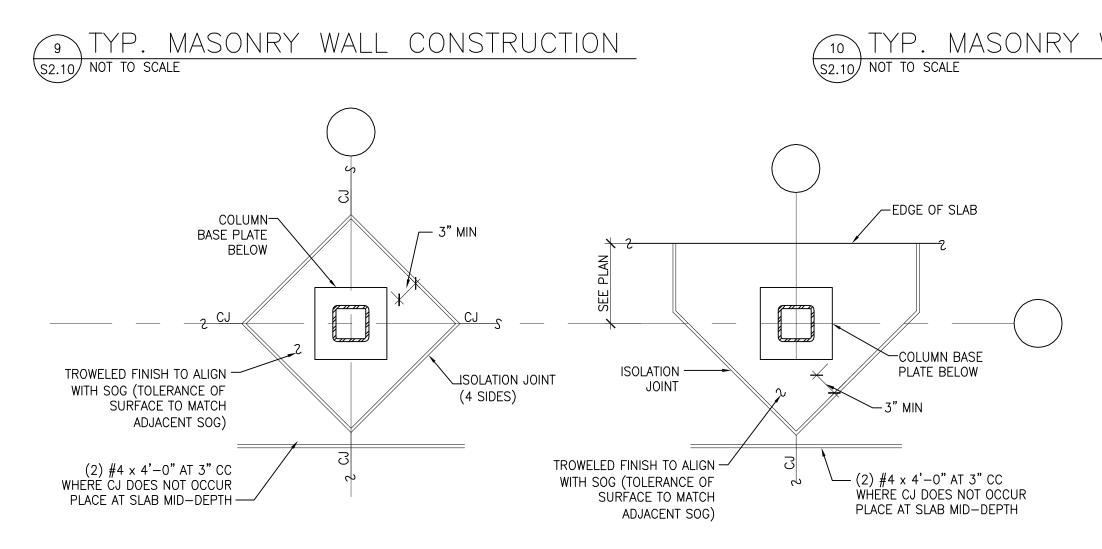
S2.10 NOT TO SCALE



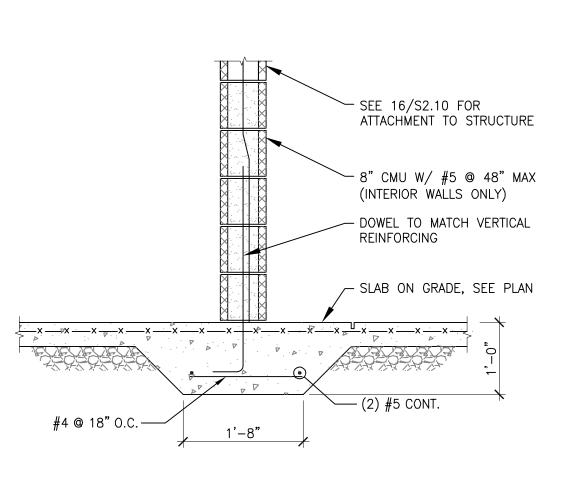
BOND BEAMS REINF. SHALL RUN CONTINUOUS THROUGH WCJ

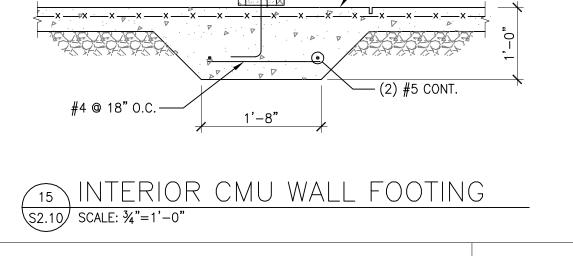


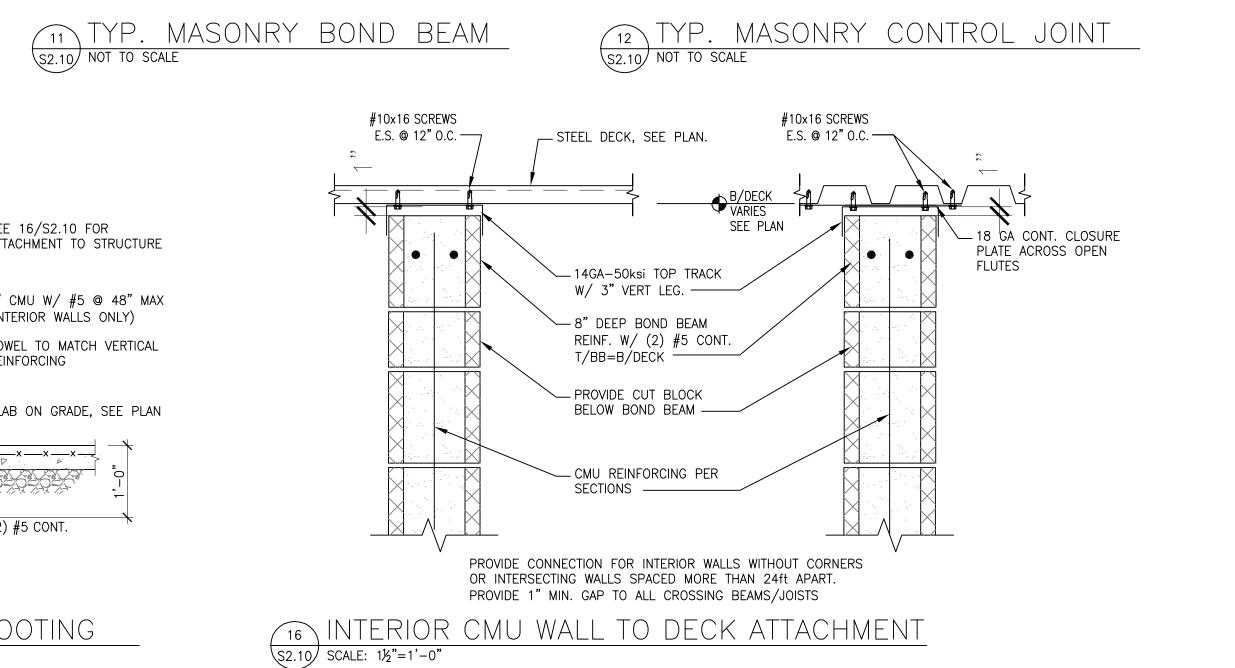
TYP. CMU LAP SPLICE
S2.10 SCALE: 3/4"=1'-0"

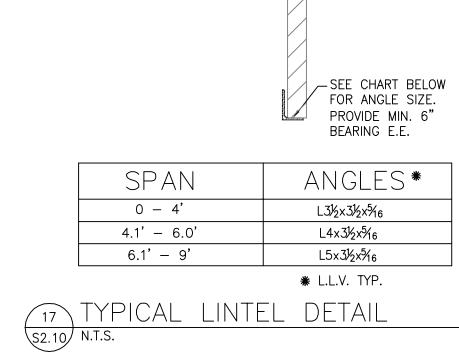


EXTEND COLUMN ISOLATION BLOCK AS NEEDED AT BRACED FRAMES TO ACCOMODATE THE DIAGONAL BRACE AND CONNECTION. SLAB ISOLATION JOINT AT COLUMN
S2.10 SCALE: 3/4"=1'-0"





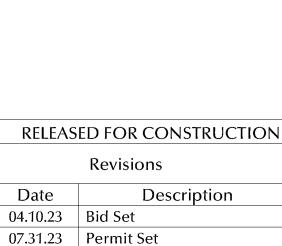




GIANNAVOLA ATLANTA, GA 30318 **GGHEngineers.com** EXP 06/2024

- BRICK VENEER,

SEE ARCH



Gymnasium for

Union County

51 Industrial

Boulevard

Blairsville,

Georgia 30512

07/27/2023

Gardner Smith Tench 🛇 Jarbeau

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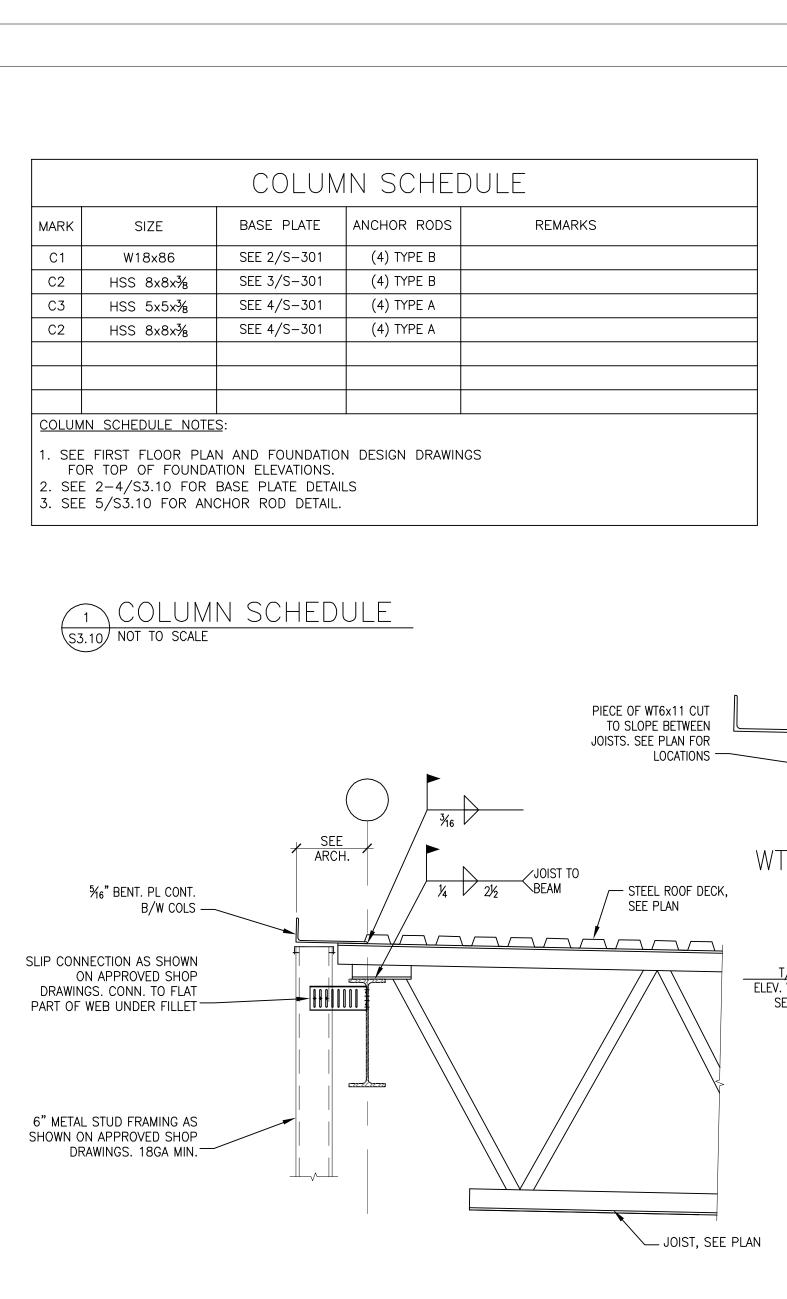
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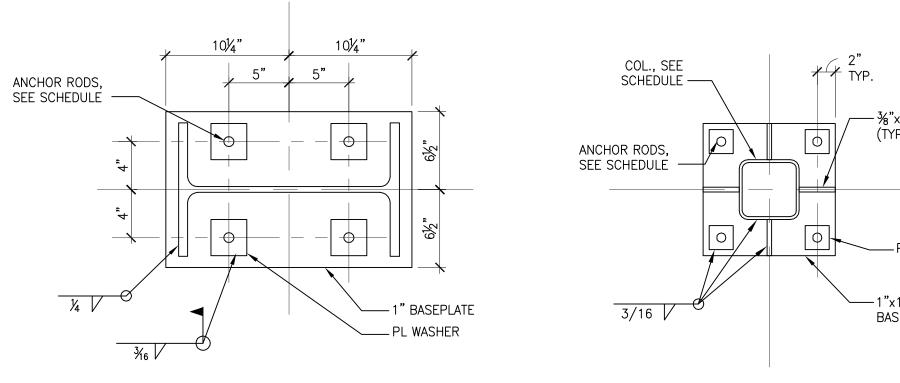
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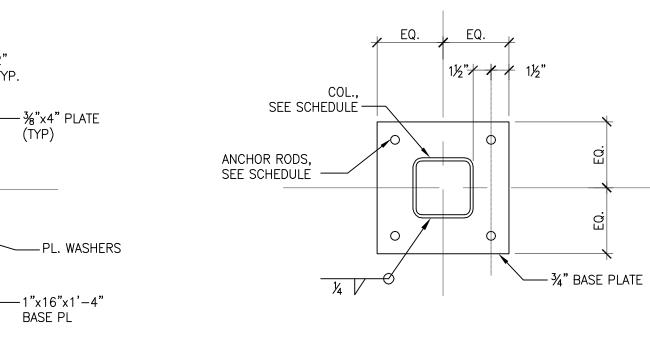
PROJECT NO.

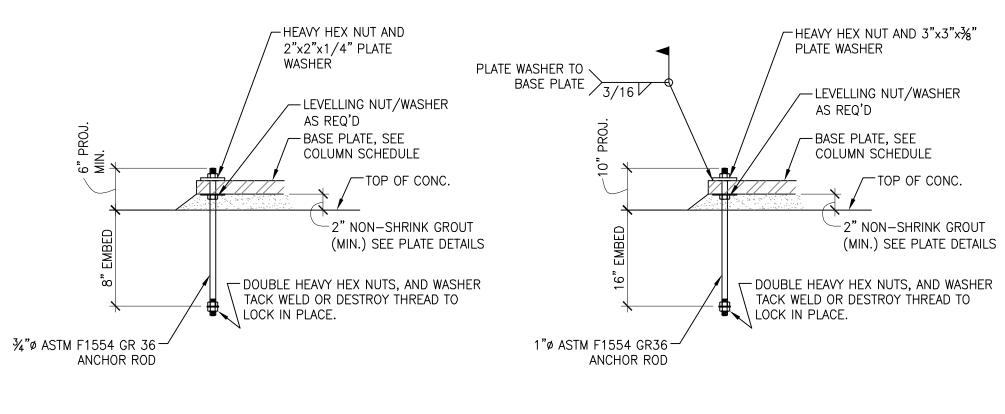
22102 SHEET TITLE

Foundation Sections

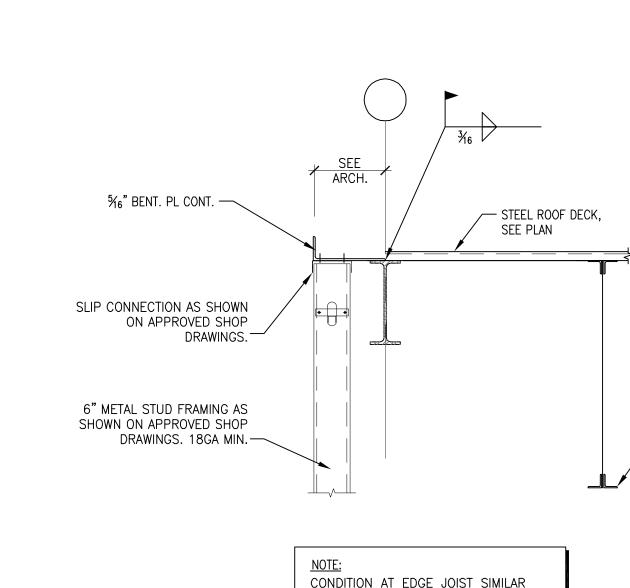


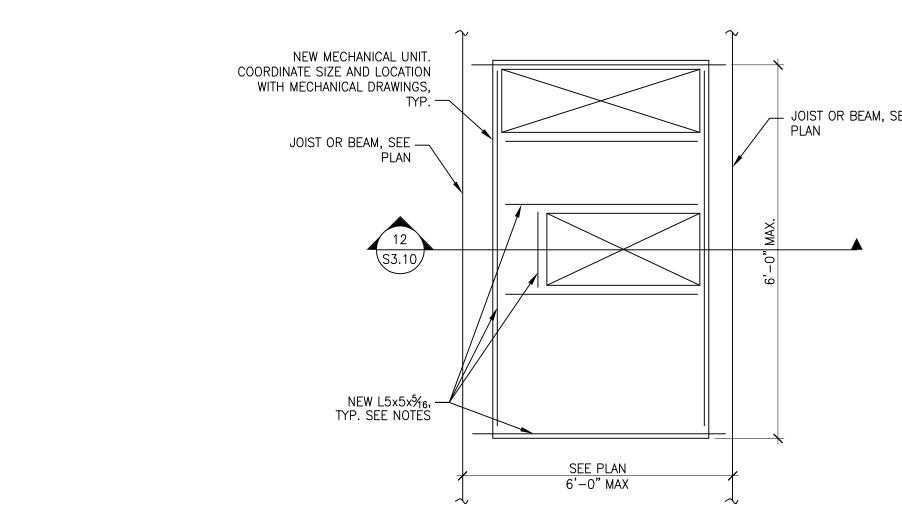


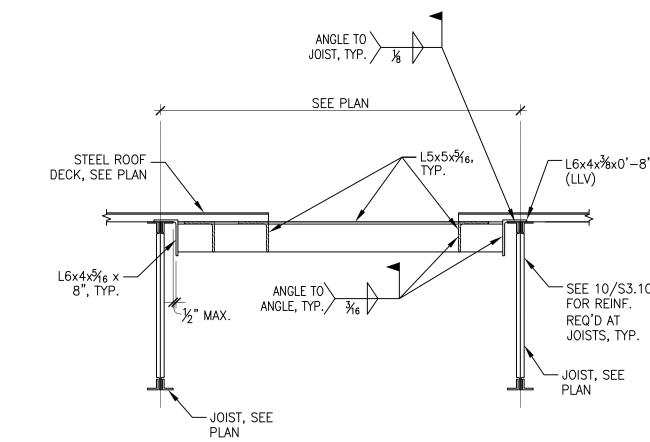




TYPE A TYPE B







NOTES:

1. PROVIDE SUPPORT FRAMING AROUND ROOF OPENINGS AND AT PERIMETER OF ROOF TOP MECHANICAL UNITS UNDER MECH. UNIT CURBS.

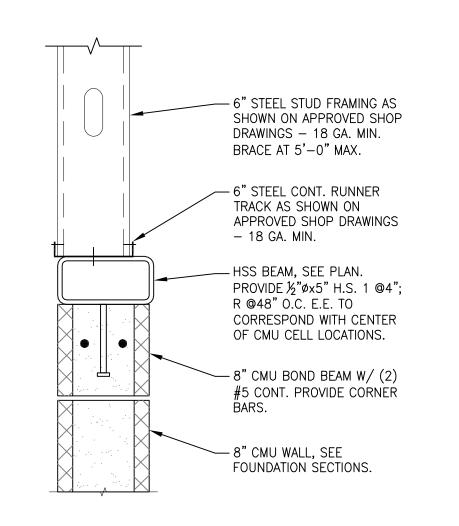
2. MECHANICAL UNIT CURBS TO BE BOLTED TO SUPPORT ANGLES BELOW ROOF DECK PER REQUIREMENTS ON MECHANICAL DETAILS.

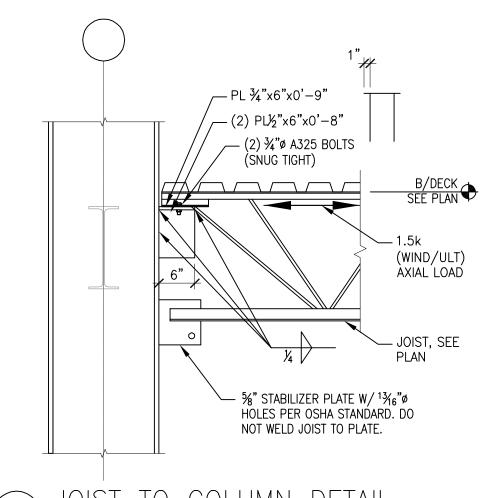
3. COORDINATE THE LOCATION, DIMENSIONS AND BOLT HOLE REQUIREMENTS FOR MECHANICAL UNITS, MECHANICAL UNIT CURBS AND ROOF OPENINGS WITH MECHANICAL DRAWINGS.

TYP. ROOF OPENING AND

MECH. UNIT SUPPORT FRAMING
S3.10 N.T.S.

TYPICAL ROOF OPENING AND MECH. UNIT SUPPORT FRAMING
(S3.10) N.T.S.

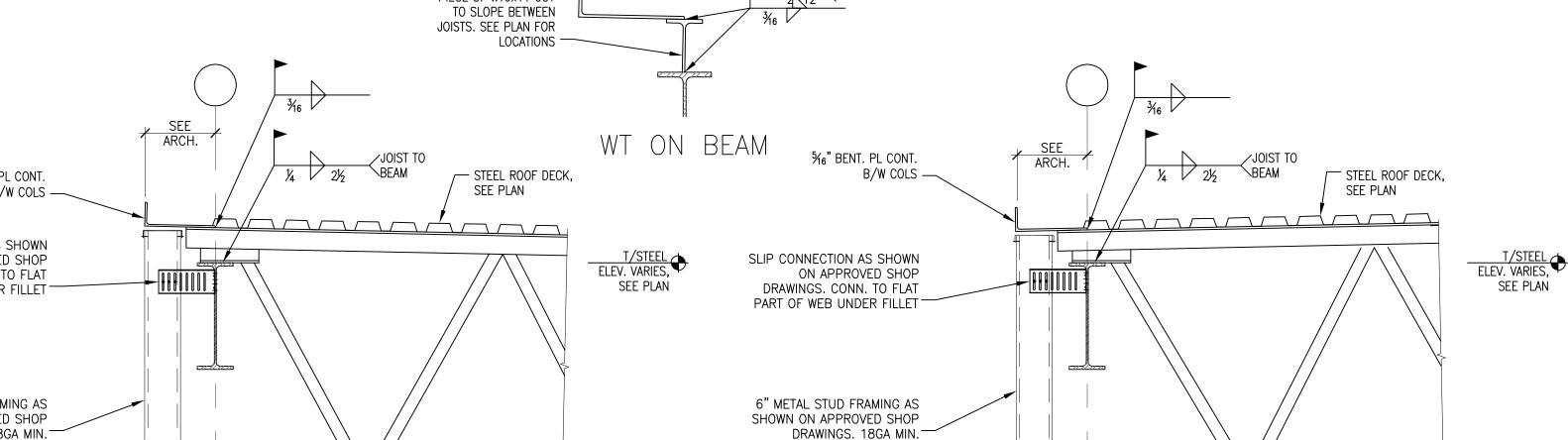




JOIST TO COLUMN DETAIL

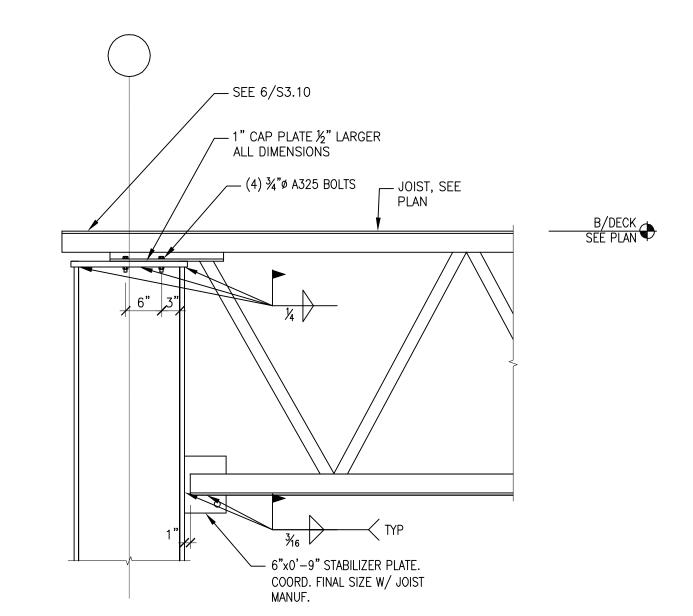
S3.10 SCALE: NONE





6 ROOF FRAMING DETAIL \$3.10 SCALE: 34"=1'-0"

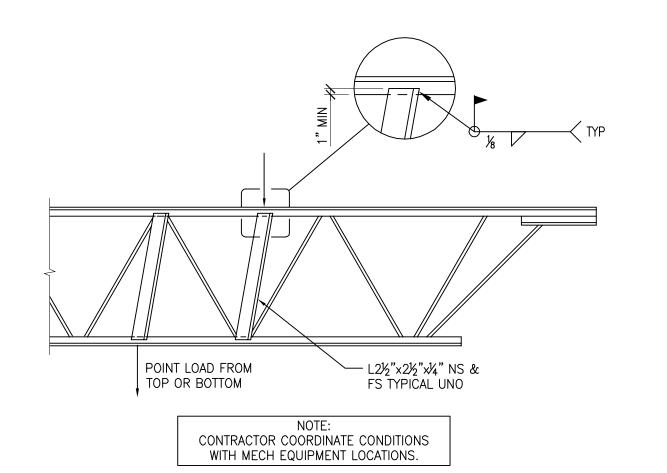
7 ROOF FRAMING DETAIL \$3.10 SCALE: 3/4"=1'-0"



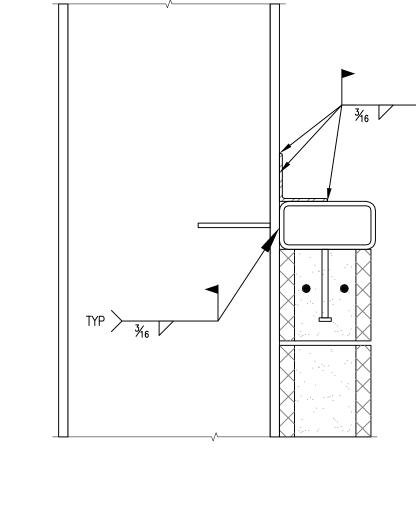
LRFD LOAD COMBINATION	LEFT MOMENT	RIGHT MOMENT	AXIAL FORCE	REMARKS
1.2 D + 1.6 Lr	-86.5 ft*k	−82.7 ft*k		
1.2 D + 1.6 Lr + 0.5 W (R-L)	-106 ft*k	-39.9 ft*k	5k	
1.2 D + W + 0.5 Lr (R-L)	−97.2 ft*k	-41.5 ft*k	5k	
0.9 D + W (R-L)	−59.8 ft*k	-86.5 ft*k	5k	
1.27 D + 1.0 E (R-L)	-107 ft*k	+14.2 ft*k	5k	
1.27 D + 1.0 E (L-R)	+8.2 ft*k	-106 ft*k	5k	
0.83 D + E (R-L)	-103 ft*k	−82.3 ft*k	5k	
0.83 D + E (L-R)	-80.6 ft*k	-104 ft*k	5k	
JOIST LOAD NOTES: 1. VALUES ABOVE OBTAINED USING AN 2. NOTIFIY ENGINEER IF DESIGN MOMEN 10% + OR 3. DESIGN MOMENTS ARE SIGNIFCANTLY	IT OF INERTIA DEVIATE:	S FROM THE ABOVE LIS	STED VALUE BY MORE	

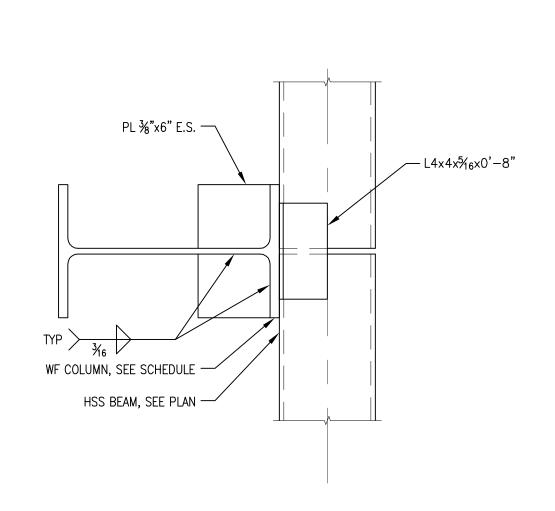
JOIST TO COLUMN MOMENT CONNECTION DETAIL

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



13 JOIST REINFORCEMENT DETAIL





HSS TO WF CONNECTION \$3.10 SCALE: 3/4"=1'-0"

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

ANCHOR ROD DETAILS — PL¼"x4"x0′−6" - BRACING MEMBER, see plan - L6x4x $\frac{3}{8}$ x0'-8" (LLV). USE BENT - WELD DECK TO PL WHEN BRACING CONTINUES BRACING MEMBER TO OPPOSITE SIDE. SEE PLAN JOIST, SEE PLAN CONDITION AT EDGE JOIST SIMILAR 9 COLUMN BRACING DETAIL S3.10 SCALE: ¾"=1'-0" 8 ROOF FRAMING DETAIL \$3.10 SCALE: 3/4"=1'-0" JOIST OR BEAM, SEE [—]L6x4x¾x0'−8"

> 07/27/2023 Gardner Smith

> > Jarbeau A Professional Corporation for the Practice of Architecture

Gymnasium for

Union County

51 Industrial

Boulevard

Blairsville,

Georgia 30512

RELEASED FOR CONSTRUCTION

Description

Revisions

Date

04.10.23 Bid Set

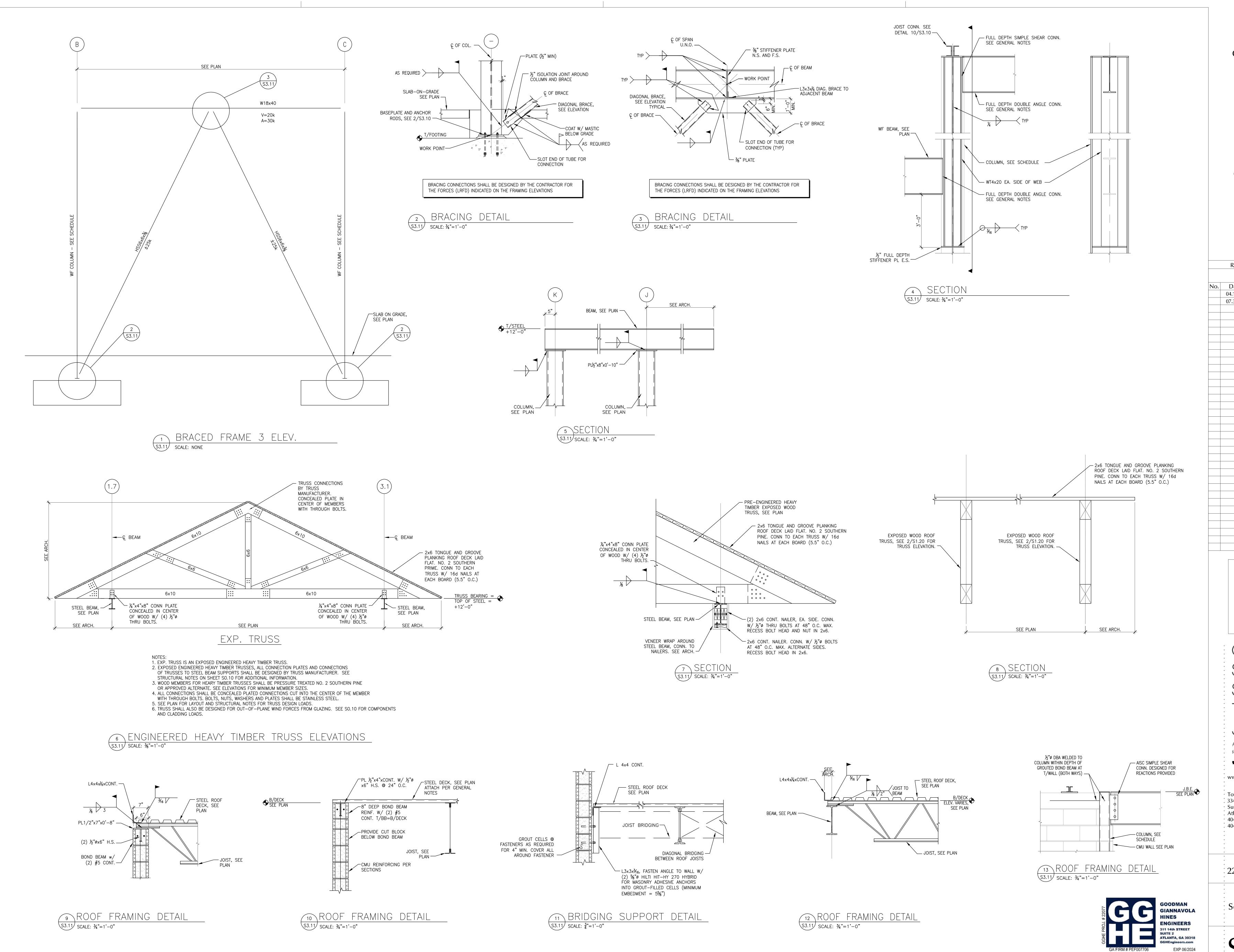
07.31.23 | Permit Set

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

PROJECT NO. 22102 SHEET TITLE

Sections and Details



Gymnasium for **Union County**

51 Industrial Boulevard Blairsville, Georgia 30512

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Revisions Date Description 04.10.23 Bid Set 07.31.23 | Permit Set

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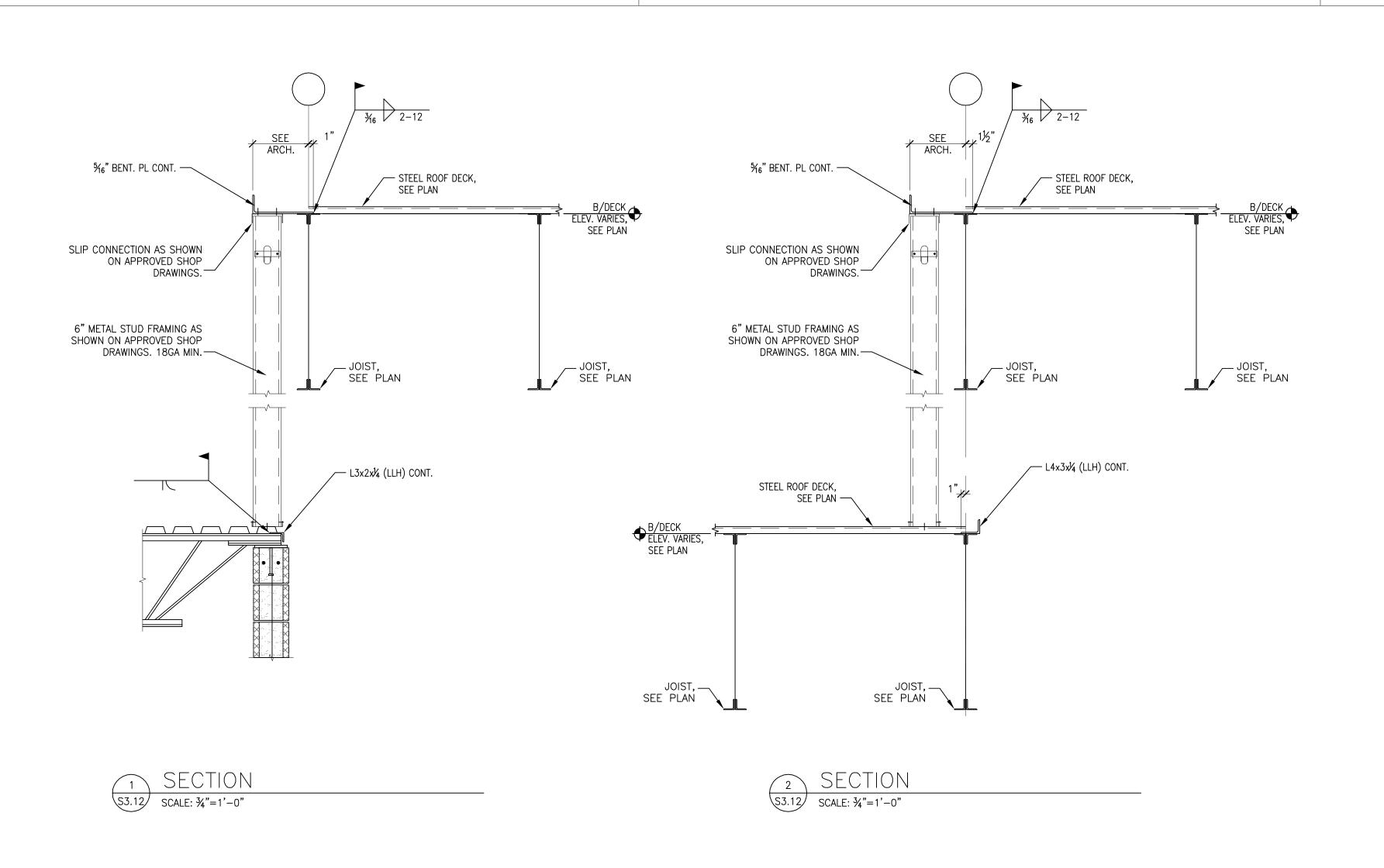
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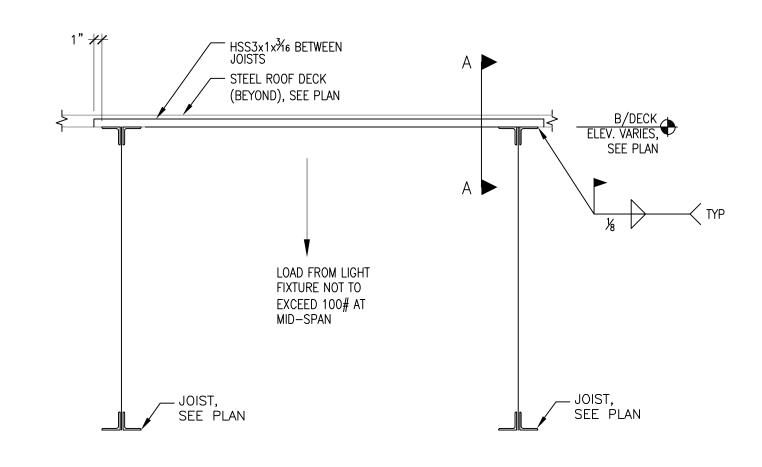
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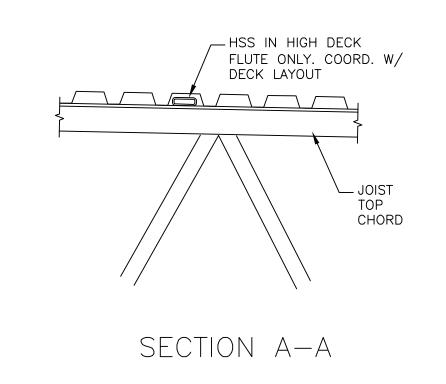
22102

Sections and Details

SHEET TITLE







SECTION AT LIGHT SUPPORT

S3.12 SCALE: ¾"=1'-0"

New Gymnasium for Únion County

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION

	Revisions												
No.	Date	Description											
	04.10.23	Bid Set											
	07.31.23	Permit Set											

SEORGY No. SE000762 STRUCTURAL ENGINEER
07/27/2023

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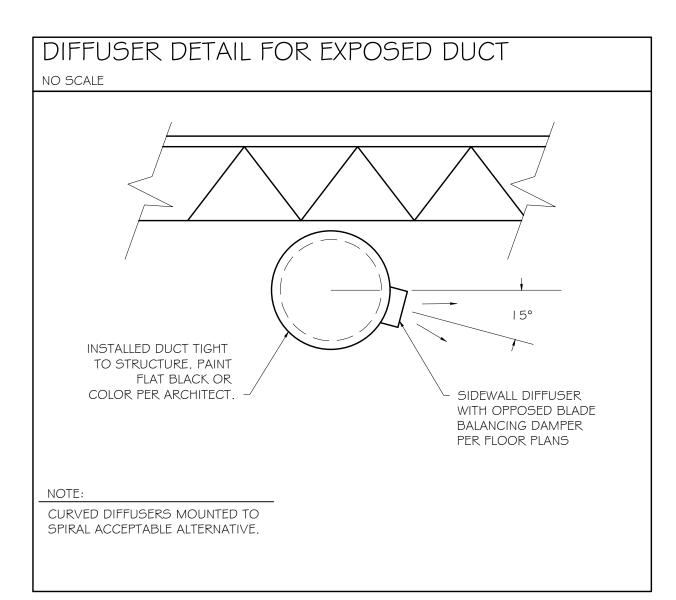
22102

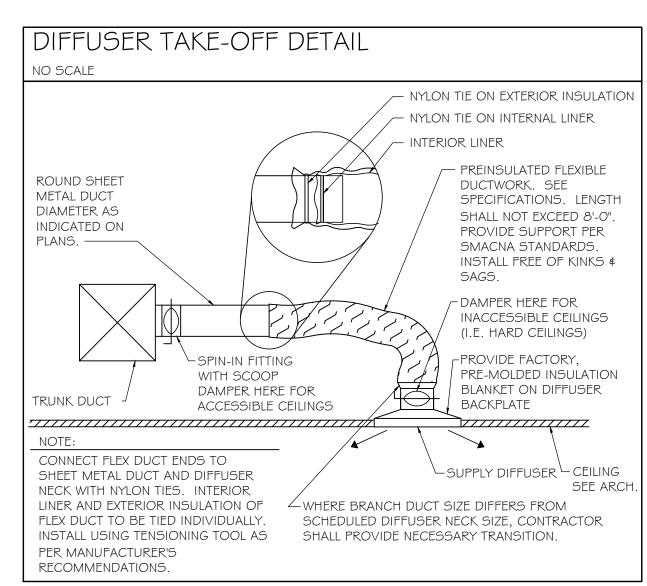
311 14th STREET
SUITE 2
ATLANTA, GA 30318
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SHEET TITLE

Sections and Details

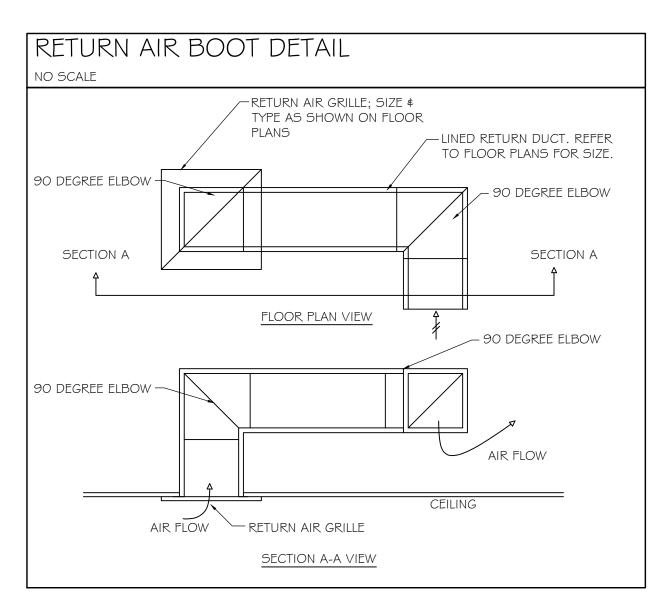
PROJECT NO.

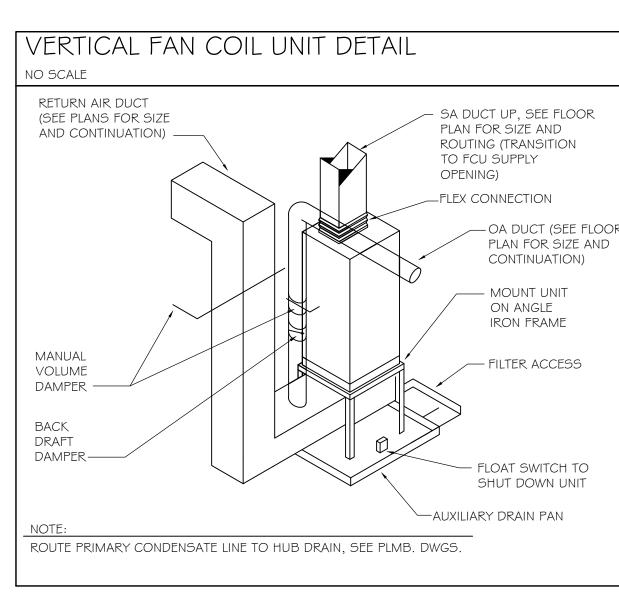


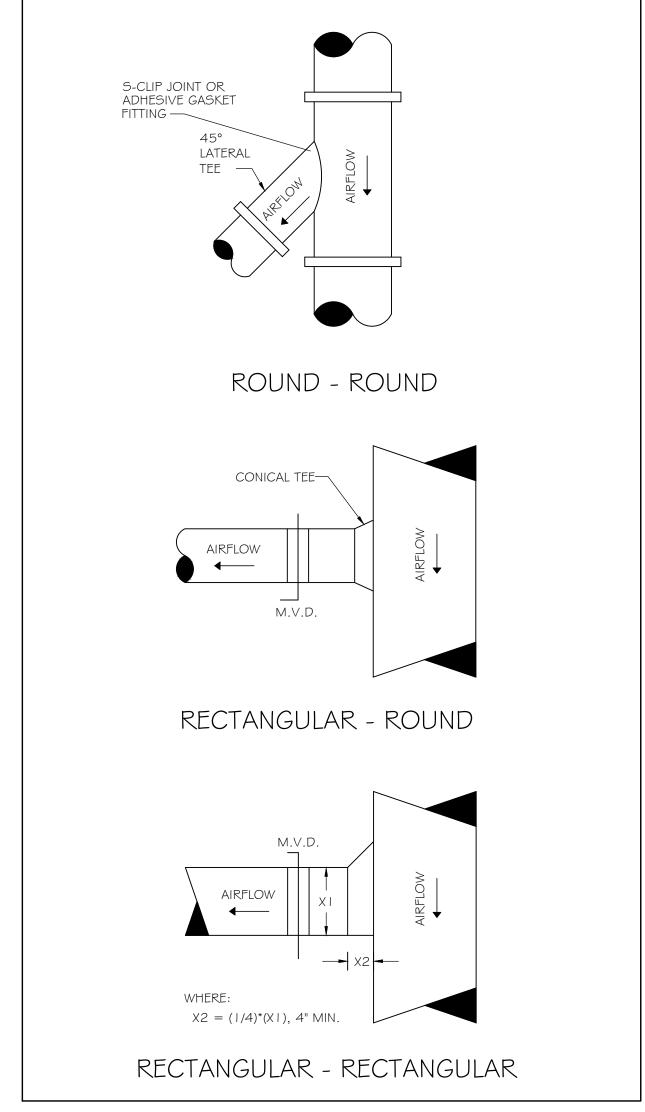


DUCTWORK DETAILS

NO SCALE







CONDENSATE TRAP (DRAW THROUGH UNIT) CLEANOUT CAP, CLOSED DURING UNIT OPERATION -PIPE FULL SIZE AIR UNIT DRAIN CONNECTION, / AIR UNIT MINIMUM — CASING PIPE (EXTERIOR) CAPPED (INTERIOR) — XI = I " PLUS MAXIMUM NEGATIVE STATIC PRESSURE X2 = HALF OF XINOTES I. LOCATE TRAPS SO AS TO BE $X3 = XI + X2 + PIPE \emptyset + INSULATION$ ACCESSIBLE FOR CLEANING.

FIRE DAMPER (FD) - TYPE B MOUNTING NO SCALE ALTERNATE LOCATION FOR ACCESS DOOR - STAINLESS STEEL NEGATOR "S" JOINT COLLAR TO CLOSURE SPRING DUCT BOTH SIDES OF FIRE DAMPER (TYP.) - FASTEN DAMPER ONE PIECE ROLL FORMED TO SLEEVE BY GALVANIZED STEEL WELDING 6" ON FRAME ----CENTER 9/32" DIAMETER GALVANIZED STEEL - FLOOR OR WALL PIVOT ROD OR RIVET — BUILDING CONSTRUCTION FUSIBLE LINK (REPLACEABLE SNAP — BLADE LOCK ACCESS DOOR (MINIMUM 8"x8" FOR DUCT UP TO 12" WIDE; MINIMUM 12"x12" FOR WIDER DUCTWORK) ----FIRE DAMPER INSTALLATION TO MEET UL REQUIREMENTS.

DUCTWORK AND ACCESSORIES:

SPECIFICATIONS

NDUSTRY 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-410A, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD

START--UP. UNIT CABINET

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

- CONDENSER FAN WILL BE DIRECT--DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD. — CONDENSER FAN MOTORS WILL BE TOTALLY ENCLOSED, I-PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS.

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

COMPRESSOR COMPRESSOR WILL BE HERMETICALLY SEALED.

REFRIGERATION COMPONENTS

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

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

FAN COIL UNIT:

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

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

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

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

SPECIFICATIONS

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.

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 MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A. ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR 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 1 INCH, OR IXIXIINCH 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 %-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.

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

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

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

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

OPTIONAL MOLDED INSULATION BLANKET SHALL BE AVAILABLE. THE INSULATION WILL BE R-G, FOIL-BACKED, AND PROVIDE AN ADDITIONAL 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.

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.

WALL LOUVERS:

THE WALL LOUVER SHALL BE AMCA CERTIFIED. THE WALL LOUVER SHALL BE A STATIONARY, DRAINABLE BLADE TYPE. THE LOUVER SHALL INCORPORATE DRAIN GUTTERS IN THE HEAD MEMBER AND HORIZONTAL BLADES TO CHANNEL WATER TO THE JAMBS WHERE WATER IS FURTHER CHANNELED THROUGH VERTICAL DOWNSPOUTS AND OUT A SLOPED SILL.

THE FRAME AND BLADES SHALL BE CONSTRUCTED FROM HEAVY GAUGE, EXTRUDED, ALUMINUM. THE LOUVER SHALL BE OF MECHANICALLY FASTENED CONSTRUCTION. REFER TO THE EQUIPMENT SCHEDULE FOR A FULL LISTING OF REQUIRED LOUVER ACCESSORIES.

LEGEND	
SYMBOLS	DESCRIPTION
XI X2	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG XI = TYPE, X2 = CFM
	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)
111111	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 FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
L 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.

AFF	ABOVE FINISHED FLOOR	М	MOTOR
BDD	BACKDRAFT DAMPER	МА	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	OA	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

ARRPEL/IATIONS

APPLICABLE CODES

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

INTERNATIONAL FUEL GAS CODE (IFGC), 2018 EDITION

2022 IPC GA AMENDMENTS INTERNATIONAL MECHANICAL CODE (IMC), 2018 EDITION 2020 IMC GA AMENDMENTS

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.

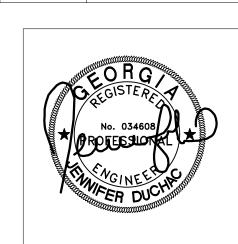
TEST AND BALANCE:

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

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

		LEASED FOR
C	ONSTRUCTI	ON Revisions
No.		Description
_	04/10/23	Issued for Bid





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PROJECT NO. :22102

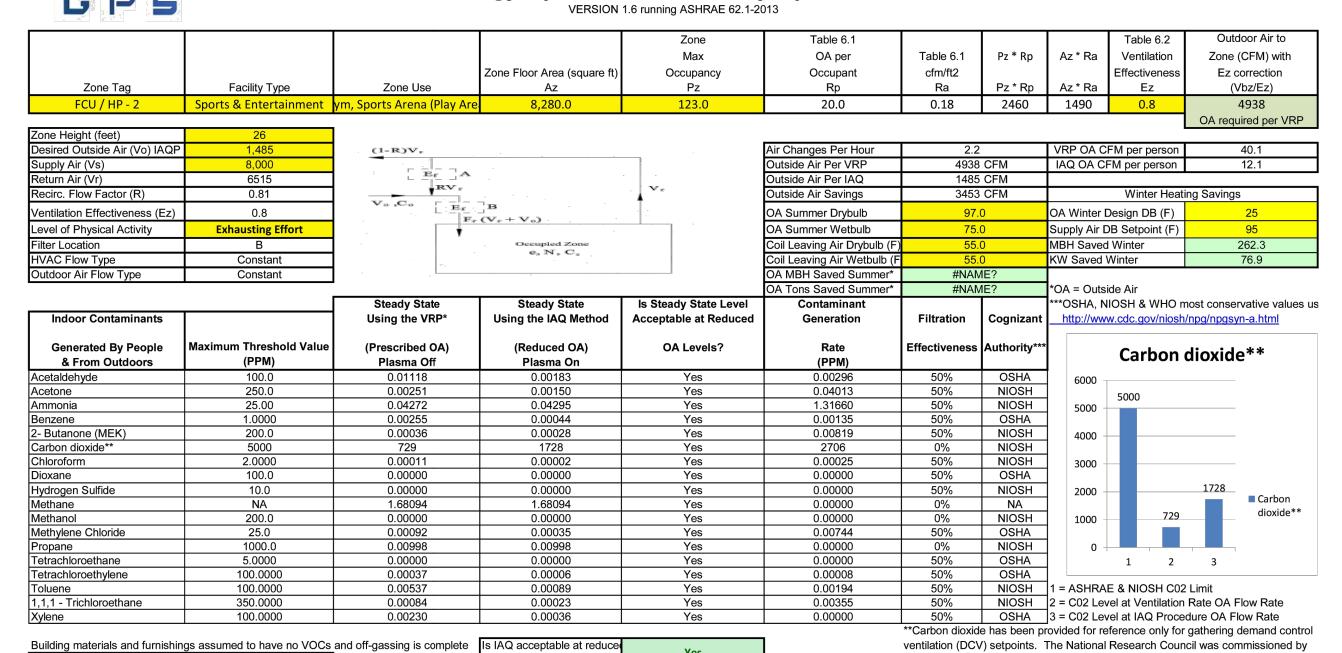
SHEET TITLE GENERAL





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IMC 2006 & later allows for ASHRAE 62 IAQP through the engineered exception found in Section 403.2 Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

the US Navy to prove C02 is not a contaminant of concern when using air purification

to control the other contaminants of concern, as found on submarines.

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT							OUTDOOR UNIT CC					COMBINED COOLING CAPACITIES													
		TOTAL				AUXILIARY		BASIS				BASIS	NOMINAL				COOLIN	IG			REMARKS				
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)	(LBS)	DESIGN	SEER	HSPF	(LBS)	DESIGN	(TONS)	(MBH)	(MBH)	(MBH)	(°F)	(°F)	(°F)	(°F)	1 2	3 2	5 6	, 7 8	9 10
FCU-1/ HP-1	LOBBY	1,990	135	0.50	3/4 ECM	11.3	175.0	FX4DNF061	14.0	8.2	250.0	25HCE460	5.0	57.3	42.5	14.7	76.3	64.7	55.8	54.8	x x	X X	X	X	
FCU-2/ HP-2	BASKETBALL COURT	8,000	1,485	0.50	5	50.0	720.0	40RUQA24	12.5		1,015.0	38AUQ25	20.0	241.0	180.4	60.6	78.5	66.0	56.8	55.8	x x	XX	X X	XX	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.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

DESCRIPTION

CALLOUT

RC2424

RS1206

RS4824

551206

551806

SSD1204 DRUM LOUVER

SSD3608 DRUM LOUVER

RC 18 12 EGGCRATE GRILLE

EGGCRATE GRILLE

EGGCRATE GRILLE

EGGCRATE GRILLE

SC | 206 DOUBLE DEFLECTION REGISTER

SC 1806 DOUBLE DEFLECTION REGISTER

SUPPLY CEILING PLAQUE DIFFUSER

SUPPLY CEILING PLAQUE DIFFUSER

SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.

DOUBLE DEFLECTION SUPPLY

DOUBLE DEFLECTION SUPPLY

- ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX
- D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR
- WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN. E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT

FACE SIZE INLET SIZE NOISE

18x12

24x24

12x6

48x24

12x6

18x6

6Ø

8Ø

12x6

18x6

12x4

38x10 36x8

24x24

48x24

20x8

24x24

24x24

20x8

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL

B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING

(IN)

CRITERIA @

MAX CFM

HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN. F. UNITS SHALL BE DOE 2023 COMPLIANT.

REMARKS (APPLY AS SCHEDULED): 1. PROGRAMMABLE THERMOSTAT.

- 2. LOW AMBIENT PACKAGE
- 3. DISPOSABLE FILTER.
- 4. ANTI-SHORT CYCLE TIMER.

5. INDOOR FAN DELAY KIT.

- 6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT.
- REFER TO THE ELECTRICAL DOCUMENTS.
- 7. MOUNT OUTDOOR HEAT PUMP ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND
- SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
- 8. PROVIDE AND INSTALL BIPOLAR IONIZATION UNIT. REFER TO AIR PURIFICATION SCHEDULE.
- 9. 2 STAGE COOLING.
- I O. FIELD PROVIDED AND FIELD INSTALLED SMOKE DETECTOR, SMOKE DETECTOR SHALL BE MOUNTED IN THE SUPPLY DUCT.
- II. CONTRACTOR TO PROVIDE AND FIELD INSTALL AIRSIDE ENTHALPY ECONOMIZER WITH MOTORIZED RETURN
- AND OUTDOOR AIR DAMPERS AND CONTROLS.

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	ESP (IN WG)	MOTOR (W / HP*)	DRIVE	MAX NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	RE	EMAR	T
										J	2	3
EF-A	EXHAUST	CEILING CABINET	210	0.5	240	DIRECT	4.0	SWITCHED WITH LIGHTS	GREENHECK SP	Х	Х	X
EF-1	EXHAUST	CEILING CABINET	140	0.5	150	DIRECT	3.5	SWITCHED WITH LIGHTS	GREENHECK SP	Х	Х	X
EF-2	EXHAUST	CEILING CABINET	70	0.5	100	DIRECT	2.0	SWITCHED WITH LIGHTS	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.

AIR PURIFICATION SCHEDULE

REMARKS (APPLY AS SCHEDULED):

I . INTEGRATED FAN SPEED CONTROLLER INSIDE FAN FOR BALANCING.

2. FACTORY DISCONNECT SWITCH/PLUG.

3. GRAVITY BACKDRAFT DAMPER.

MODEL

TITUS 50F

TITUS 50F

TITUS 50F

TITUS 50F

TITUS 300FS

TITUS 300FS

TITUS OMNI

TITUS OMNI

TITUS 300FS

TITUS 300FS

TITUS DL

TITUS DL

			MOUNTING						
GPS MODEL PRESSURE DROP VO		WATTS	LOCATION	(IONS/CC)	NOTES				
0.05" W.C.	24-240	12	AHU	140 MILLION PER INCH	1-6, 8-14				
_				PRESSURE DROP VOLTAGE (AC) WATTS	PRESSURE DROP VOLTAGE (AC) WATTS O.05" W.C. 24-240 12 AHU 140 MILLION PER				

- I. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE
- 2. MOUNT BI-POLAR ION GENERATOR WHERE INDICATED ON SCHEDULE
- 3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES. 4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE
- 5. ALL MANUFACTURERS MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL
- 6. PROVIDE WITH WEATHERPROOF ENCLOSURE.
- 7. PROVIDE WITH SELF-CLEANING FEATURE. SYSTEMS WITHOUT SELF-CLEANING SHALL NOT BE ACCEPTABLE.
- 8. PROVIDE STEP-DOWN TRANSFORMER.
- 9. IONIZATION BAR TO HAVE A MINIMM OF | NEEDLEPOINT EVERY 0.50" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE ACCEPTABLE
- I O. IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE
- 1. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE.
- 12. IONIZATION POWER SUPPLY SHALL HAVE POWER ON AND PLASMA ON INDICATION LIGHT
- 13. IONIZATION BARS SHALL BE PROVIDED WITH MAGNETS FOR EASE OF MOUNTING AND SHALL ONLY TAKE UP ONE INCH IN THE DIRECTION OF AIRFLOW
- 14. IONIZATION BAR SHALL BE MODULAR AND DESIGNED TO COVER THE ENTIRE COIL WIDTH IN 6 INCH INCREMENTS

LOUVERS

SYMBOL MODEL/ SERIES		SERVES	SIZE (WxH)	MIN FREE AREA (SF)	CFM	MAX PRESS. DROP (IN WC)	OPERATOR	INTERLOCK	FRAME	RE	MAR	'KS
			, ,	, ,		,				1	2	3
WL-I	ESD-635	FCU-2 OUTSIDE AIR	60x60	13.8	8,000	0.05	N/A	N/A	ALUMINUM	X	X	
WL-2	ESD-635	FCU-2 ECONOMIZER RELIEF	60x60	13.8	8,000	0.05	N/A	N/A	ALUMINUM	Х	Х	Х

NOTES (APPLY TO ALL):

- A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL. B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES
- SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.
- REMARKS (APPLY AS SCHEDULED):
- I. BIRD SCREEN 2. BAKED ON ENAMEL FINISH.
- 3. BAROMETRIC RELIEF DAMPER.

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. 404.521.2118 (F)

:22102

SHEET TITLE

SCHEDULES

SHEET NO.

PROJECT NO.

RELEASED FOR

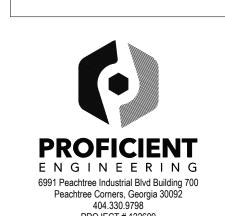
o. Date

- 104/10/23

Revisions

Description

Issued for Bid



51 Industrial Boulevard Blairsville, Georgia 30512 RELEASED FOR GENERAL NOTES KEYNOTES No. Date Description - 04/10/23 Issued for Bid A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION. TRAP & ROUTE 1-1/4"Ø INSULATED CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. 2 3/4" DOOR UNDERCUT. B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER. 3 EXHAUST DUCT TO EXTERIOR WALL CAP WITH INSECT SCREEN. 4 OUTSIDE AIR DUCT TO EXTERIOR WALL CAP WITH INSECT SCREEN. C. ALL EXHAUST TERMINATIONS TO BE LOCATED A MINIMUM OF 10' AWAY FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3' AWAY FROM OPERABLE OPENINGS. D. WALL CAP COLOR AND FINISH SHALL BE SELECTED BY ARCHITECT. PROFICIENT
ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 122609 · Tower Place : 3340 Peachtree Road, N.E. Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F) PROJECT NO. · :22102 SHEET TITLE FLOOR PLAN FLOOR PLAN

5CALE: 3/16' = 1'-0' 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 INCLUDES, BUT NOT LIMITED TO: THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.

THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND

REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER.

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.

IECC 2015 ASHRAE 90. NFPA

IEEE

THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL.

THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND 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 ADDITIONAL COSTS.

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS. PRODUCTS AND WORK

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 OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS.

CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES.

COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER FROM THE STRUCTURAL CEILING.

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

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

OUTDOORS EXPOSED: RIGID STEEL. OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL. OUTDOORS UNDERGROUND: TYPE EPC-40-PVC OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC.

BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS. INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT. INDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT. INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT. INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT. INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.

INDOORS DAMP OR WET LOCATIONS: IMC. INDOORS LOW-VOLTAGE CABLES: EMT.

CONDUCTORS:

COPPER CONDUCTORS #10 AND SMALLER: LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA. METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330. COPPER CONDUCTORS #8 OR LARGER: LABELED PER UL 83, TYPE THHN/THWN. STRANDED

COPPER, 600VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:

SOUTHWIRE AETNA REPUBLIC

ENCORE WIRE

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

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

CONDUCTORS.

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.

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

MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP.

BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE.

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 INSTALLED.

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:

CUTLER HAMMER SQUARE D SIEMENS

GENERAL ELECTRIC

LIGHTING CONTROL

TIME CLOCK.

SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 9 I 7. 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

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 600V UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR #6 OR LARGER.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT. LOW VOLTAGE TRANSFORMERS

PROVIDE PRODUCT DATA FOR EACH TRANSFORMER. INDICATE DIMENSIONS AND WEIGHTS. PROVIDE CERTIFICATION THAT TRANSFORMERS, ACCESSORIES, AND COMPONENTS WILL

WITHSTAND SEISMIC FORCES. MANUFACTURERS: CUTLER-HAMMER, SIEMENS, GE AND SQUARE D. INSULATION CLASS: 220 DEG C, UL COMPONENT RECOGNIZED INSULATION SYSTEM WITH

MAXIMUM OF 150 DEG C RISE ABOVE 40 DEG C AMBIENT TEMPERATURE. COMPLY WITH NEMA TPI, CLASS I EFFICIENCY LEVELS AND TESTED ACCORDING TO NEMA

TESTING AND INSPECTION: PERFORM VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION. CERTIFY COMPLIANCE WITH

PERFORM AN INFRARED SCAN OF TRANSFORMER CONNECTIONS TWO MONTHS AFTER SUBSTANTIAL COMPLETION, PLUS 2 FOLLOW UP SCANS. ONE AT 4 MONTHS AND THE OTHER AT I I MONTHS. PROVIDE CERTIFIED REPORT.

ELECTRICAL GENERAL NOTES

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2020.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE). REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS. COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM

DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND

EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.

WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT. REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS. WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN

COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED. ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION. DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE

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

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.

APPROACH OR 46 INCHES FOR A SIDE APPROACH.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV. 15 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.

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.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY

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

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

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

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

FOR ALL FUSES 1,200A OR HIGHER, PROVIDE ARC ENERGY REDUCTION PER NEC 240.67. WHERE HIGHEST TRIP SETTING IN INSTALLED OVERCURRENT DEVICE IS 1,200A OR HIGHER, CONTRACTOR TO PROVIDE DOCUMENTATION OF CIRCUIT BREAKER(S) LOCATION AND PROVIDE AT LEAST ONE METHOD TO REDUCE CLEARING TIME VIA ENERGY-REDUCING MAINTENANCE SWITCH, INSTANTANEOUS TRIP SETTING, OR OTHER APPROVED METHOD AS LISTED PER NEC 240.87(B).

SYMBOLS	DESCRIPTION	TYPICAL MOUNTING HEIGHT UNLESS NOTED OTHERWISE
Ψ	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOV COUNTER TOP
#	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
₩ _{AC}	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOV COUNTER TOP
\bigcirc	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED
Ф	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
\Diamond	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
(J)	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 FINISHED
\$	SWITCH	42" AFF
\$ / \$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
(3)	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
	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 COUNTER TOP
A	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
1	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED
4	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOV COUNTER TOP
∇	DATA OUTLET	18" AFF
$\overline{\forall}$	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	
X-#	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL , (3) HOT III \$ (1) GROUND •	
©/D-	SMOKE DETECTOR. CEILING / WALL MOUNTED	
\mathbb{H}/\mathbb{H}	HEAT DETECTOR. CEILING/WALL MOUNTED	
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
$oxed{ \begin{tabular}{c} \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
¤ X	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
\boxtimes	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF

ABBREVIATIONS

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

RELEASED FOR o.| Date Description - 104/10/23| Issued for Bid





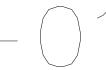
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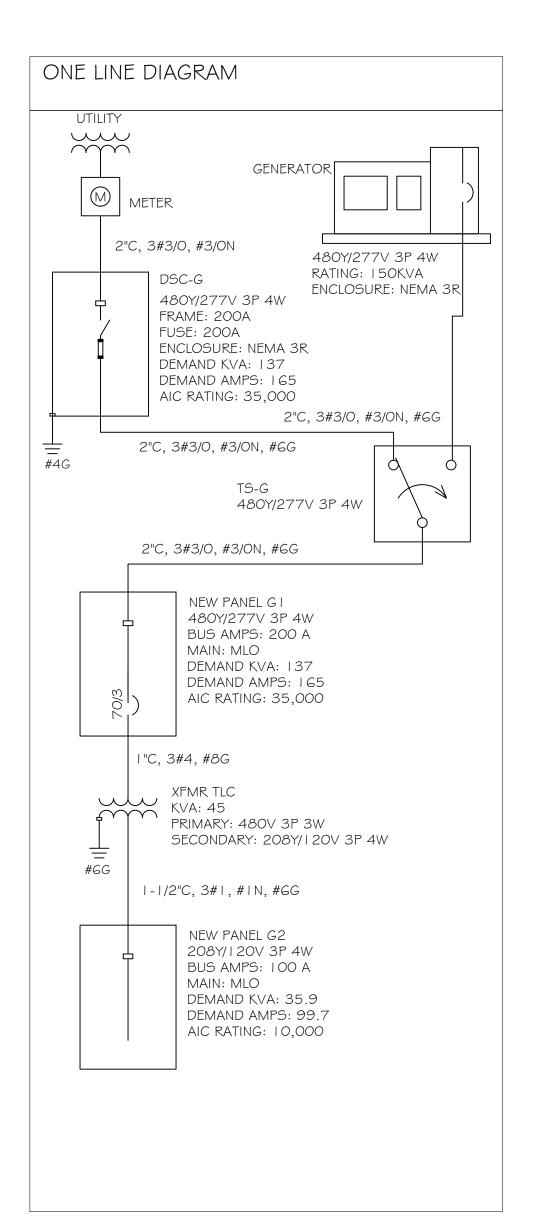
SHEET TITLE : GENERAL

SHEET NO.





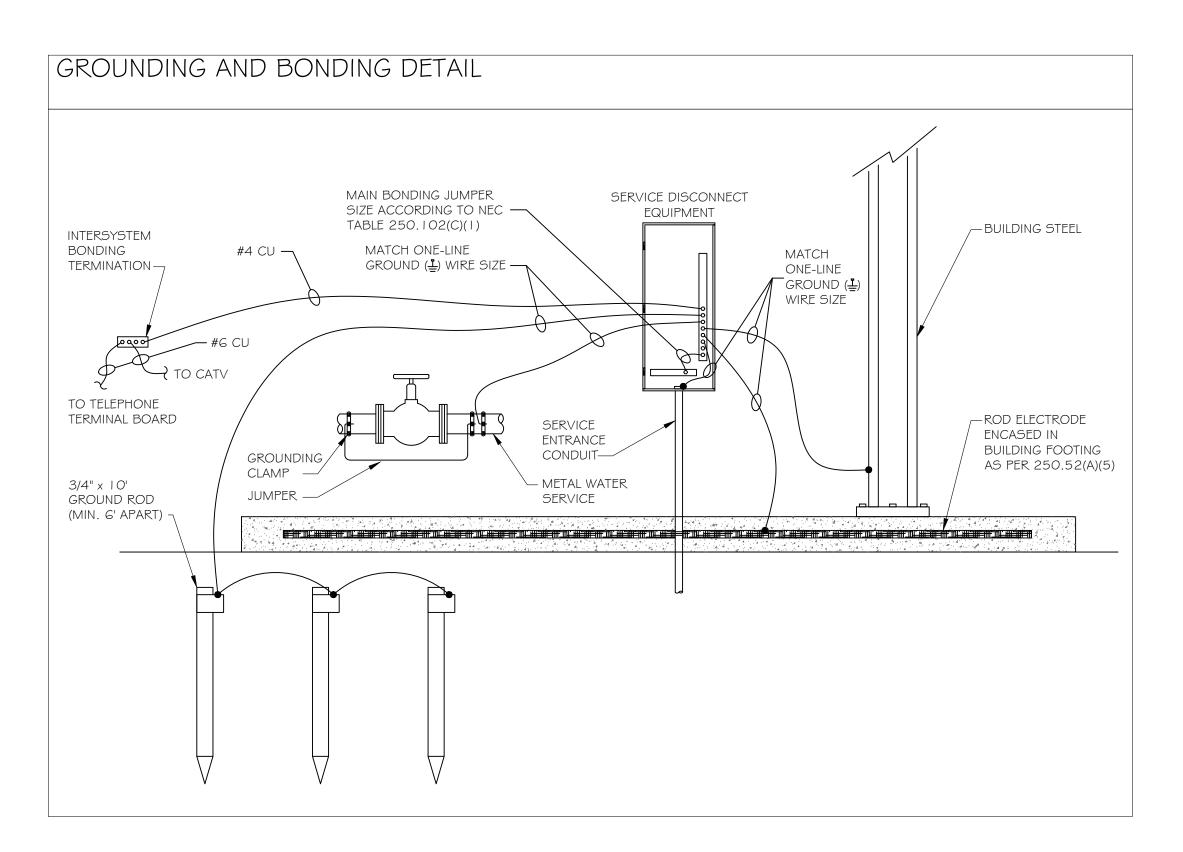
PROJECT NO.



CALLOUT	SYMBOL	DESCRIPTION	MODEL	VOLTS
4		2X4 RECESSED TROFFER	LITHONIA LIGHTING: 2BLT4 48L ADP MVOLT EZ I O LP835	277V IP 2W
4E		2X4 RECESSED TROFFER WITH BATTERY BALLAST	LITHONIA LIGHTING: 2BLT4 48L ADP MVOLT EZ I LP835 EL I 4L	MULTIPLE
3	0	2X2 LED LIGHT FIXTURE	LITHIONIA 2BLT2 40L ADP MVOLT EZ I LP835	277V IP 2W
BE	0	2X2 LED LIGHT FIXTURE W/ EMERGENCY BATTERY PACK	LITHIONIA 2BLT2 4OL ADP MVOLT EZ I LP835 EL I 4L	277V IP 2W
F	0	G'; OPEN LED DOWNLIGHT	LITHONIA #LDNG 35/10 LOG WR LSS MVOLT EZ10	277V IP 2W
G	+	EXTERIOR GRADE DOWNLIGHT	TBD	MULTIPLE
Н	<u></u>	LED HIGH BAY FIXTURE	LITHIONIA #JBHL 35000LM ACL WD MVOLT GZ I O 35K 80CRI WGX CS89 DWHXD	277V IP 2W
HE	<u></u>	LED HIGH BAY FIXTURE W/BATTERY BACKUP	LITHIONIA #JBHL 35000LM ACL WD MVOLT GZ I O 35K 80CRI WGX CS89 DWHXD BSL722	277V IP 2W
J	Ю———	4' GENERAL PURPOSE LED STRIP LIGHT	LITHIONIA #CLX L48 5000LM SEF FDL MVOLT EZ I 35K 80CRI WH WGCLX4848	277V IP 2W
JE	Ю	4' GENERAL PURPOSE LED STRIP LIGHT	LITHIONIA #CLX L48 5000LM SEF FDL MVOLT EZ I 35K 80CRI WH WGCLX4848 E I OWLCP	277V IP 2W
<		EXTERIOR WALL PACK	LITHIONIA #WST-LED2-10A700/40K-SR3-277-SF-DNAXD	277V IP 2W
P2	 	BEAM MOUNTED UPLIGHT STRIP	PEERLESS #EGCW4L LLP	277V IP 2W
P2E	——	BEAM MOUNTED UPLIGHT STRIP	PEERLESS #EGCW4L LLP E10WLCP	277V IP 2W
ôΙ	Q	EXTERIOR SCONCE	VISA #OW 3 5 L35K-H-MVOLT-BRNZ-BRNZ	277V IP 2W
52	φ	INTERIOR SCONCE	VISA #CV2029 L35K-H-MVOLT-BRNZ-BRNZ	277V IP 2W

GYM E	GYM EQUIPMENT SCHEDULE										
CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION				
EF-A	9	277V IP 2W	0.24	20/1	G1-8	1/2"C, # 0,# 0N,# 0G	FACTORY DISCONNECT SWITCH/PLUG				
EF-A	Θ	277V IP 2W	0.24	20/1	G1-8	1/2"C, # O, # ON, # OG	FACTORY DISCONNECT SWITCH/PLUG				
FCU-I	₩	208/120V 2P 3W	15.87	80/2	G2-35,37	I-I/4"C,2#2,#2N,#8G	I OOA/2P/NEMA I				
FCU-2	∞ □	480V 3P 4W	72	90/3	GI-7,9,11	I-1/4"C,3#2,#2N,#8G	60A/2P/NEMA I				
HP-I	♥ □	208/120V 2P 3W	6.66	50/2	G2-39,41	3/4"C,2#6,#6N,#10G	GOA/2P/NEMA 3R				
HP-2	₩	480V 3P 4W	33.92	50/3	GI-1,3,5	"C,3#6,#6N,# OG	60A/3P/NEMA 3R				
IWH-I	∞ □	277V IP 2W	2.3	20/1	G1-10	1/2"C, # O,# ON,# OG	30A/2P/NEMA I				
IWH-2	♥ □	277V IP 2W	2.3	20/1	G1-12	1/2"C, # 2,# 2N,# 2G	30A/2P/NEMA I				
IWH-3	♥	277V IP 2W	3.07	20/1	G1-14	1/2"C, # 2,# 2N,# 2G	30A/2P/NEMA I				
WH-I	8	277V IP 2W	3	20/1	GI-15		30A/2P/NEMA I				

FAULT CURRENT SCHEDULE									
DEVICE	FAULT	AIC RATING	L-L VOLTS	L-N VOLTS	5 UTILITY				
					FAULT	Х	R		
DSC-G	7,988	35,000	480V	277V	7,790	0.03343	0.01212		
GI	28,864	35,000	480V	277V	28,665	0.004631	0.008481		
TLC	6,599	10,000	208V	120V	6,525	0.01747	0.005735		
G2	6,245	10,000	208V	120V	6,170	0.01798	0.0074		
DSC-A	21,065	35,000	208V	120V	20,735	0.004893	0.00309		
А	32,620	35,000	208V	120V	32,289	0.001619	0.003345		



G	1														
ROOM MOUN FED F	NTING S	URFACE 5-G		E	VOLTS BUS AMF NEUTRAL)	W			AIC 35,000 MAIN BKR N LUGS STAND				
CKT	CKT				L	OAD KVA	4	CKT	CKT				l	OAD KV	4
#	BKR	CIRCUIT [DESCRIPTION		Α	В	С	#	BKR	CIRCUIT	DESCRIPTION		Α	В	С
1 3 5 7	50/3 90/3	HP-2 FCU-2			24.0	11.3	11.3	2 4 6 8	20/3 20/1	SPACE EF-A, LIG	GHTING		2.1	0.0	0.0
9 11 13	 20/1	•	2, LIGHTING		1.5	24.0	24.0	10 12 14	20/1 20/1 20/1	IWH-I IWH-2 IWH-3			3.1	2.3	2.3
15 17 19	20/1 20/1 20/1	WH-I LIGHTING			0.0	3.0	0.5	16 18 20	20/1 20/1 20/1	LIGHTING LIGHTING SPACE			0.0	2.9	2.9
21 23 25 27	20/1 20/1 20/1 20/1	SPACE SPACE SPACE SPACE			0.0	0.0	0.0	22 24 26 28	20/1 20/1 20/1 20/1	SPACE SPACE SPACE SPACE			0.0	0.0	0.0
29 31 33	20/1 20/1 20/1	SPACE SPACE SPACE			0.0	0.0	0.0	30 32 34	20/I 20/3	SPACE SPACE			0.0	0.0	0.0
35 37 39	20/1 20/1 20/1	SPACE SPACE SPACE			0.0	0.0	0.0	36 38 40	 70/3 	XFMR TL	С		17.6	13.9	0.0
41	20/1	SPACE					0.0	42							15.5
											ONNECTED KVA		59.6	57.4	56.5
										TOTAL CO	NNECTED AMPS		215.0	207.2	204.0
LARG	ITING GEST MOT	OR	9.0 33.9 0.8	CALC KV 11.2 8.5 0.8	(12 (25	25%) 5%) 90%)		NONC HEATI COOL TOTA	LING L LOAD	US HASE LOAI	22.3 12.9 87.9 40.6	CALC KVA 16.2 12.9 87.9 0.0 137.4 165.3 A		0%)	

ROOM MOUN FED F NOTE	NTING S		VOLTS BUS AMF NEUTRAL)	W		AIC 10,000 MAIN BKR MLO LUGS STANDARD			
CKT #	CKT BKR	CIRCUIT DESCRIPTION		OAD KV		CKT #	CKT BKR	CIRCUIT DESCRIPTION		OAD KVA	1
<i>π</i>			A	В	С				A	В	С
1	20/1	RECEPTACLE	0.2			2	20/1	RECEPTACLE	0.2		
3	20/1	FUTURE TROPHY LIGHTING		0.4	_	4	20/1	RECEPTACLE		0.9	
5	20/1	MOTORIZED BLEACHERS			0.5	6	20/1	RECEPTACLE			0.9
7	20/1	SPACE	0.0			8	20/1	RECEPTACLE	0.5		
9	20/1	RECEPTACLE		0.7		10	20/1	RECEPTACLE		0.2	
	20/1	WATER COOLER			0.6	12	20/1	RECEPTACLE			0.2
13	20/1	WATER COOLER	0.6			14	20/1	RECEPTACLE	1.1		
15	20/1	RECEPTACLE		0.7		16	20/1	RECEPTACLE		0.5	
17	20/1	HAND DRYER			0.4	18	20/1	GOAL MOTOR			1.6
19	20/1	HAND DRYER	0.4			20	20/1	GOAL MOTOR	1.6		
21	20/1	SCOREBOARD		1.0		22	20/1	GOAL MOTOR		1.6	
23	20/1	VOTING EQUIPMENT			0.4	24	20/1	GOAL MOTOR			1.6
25	20/1	TEL BACKBOARD	1.0			26	20/1	VOTING EQUIPMENT	0.4		
27	20/1	SPACE		0.0		28	20/1	VOTING EQUIPMENT		0.4	
29	20/1	SPACE			0.0	30	20/1	VOTING EQUIPMENT			0.4
31	20/1	VOTING EQUIPMENT	0.4			32	20/1	VOTING EQUIPMENT	0.4		
33	20/1	VOTING EQUIPMENT		0.4		34	20/1	VOTING EQUIPMENT		0.4	
35	80/2	FCU-I			7.9	36	20/1	VOTING EQUIPMENT			0.4
37			7.9			38	20/1	VOTING EQUIPMENT	0.4		
39	50/2	HP-I		3.3		40	20/1	VOTING EQUIPMENT		0.4	
41					3.3	42	20/1	VOTING EQUIPMENT			0.4
43	20/1	VOTING EQUIPMENT	0.4			44	20/1	VOTING EQUIPMENT	0.4		
45	20/1	VOTING EQUIPMENT		0.4		46	20/1	VOTING EQUIPMENT		0.4	
47	20/1	VOTING EQUIPMENT			0.4	48	20/1	VOTING EQUIPMENT			0.4
49	20/1	VOTING EQUIPMENT	0.4			50	20/1	SPACE	0.0		
51	20/1	VOTING EQUIPMENT		0.4	_	52	20/1	SPACE		0.0	_
53	20/1	SPACE			0.0	54	20/1	SPACE			0.0
55	20/1	SPACE	0.0			56	20/1	SPACE	0.0		
57	20/1	SPACE		0.0		58	20/1	SPACE		0.0	
59	20/1	SPACE			0.0	60	20/1	SPACE			0.0
								TOTAL CONNECTED KVA BY PHAS	16.0	11.9	19.2
								TOTAL CONNECTED AMPS BY PHAS	138.6	100.2	161.5
		CONN KVA CA	LC KVA					CONN KVA CALC K	VA		
LAR	GEST MOT	OR 6.7 1.7	(25	5%)		NONC	CONTINUC	DUS 2.2 2.2	(100)%)	
	EPTACLES		•)%>10)		HEAT		15.9 15.9	(100	•	
			`	,		COOL		6.7 0.0	(0%)	•	
						IOIA	L LOAD	35.9			

Union County Gymnasium

51 Industrial Boulevard Blairsville, Georgia 30512

CONSTRUCTION
Revisions

No. Date Description
- 04/10/23 Issued for Bid

RELEASED FOR





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

PROJECT NO.

: SHEET TITLE : SCHEDULES

△ COM*check* Software Version 4.1.5.5 **↑ COM***check* Software Version 4.1.5.5 Inspection Checklist Interior Lighting Compliance Certificate Energy Code: 2015 IECC Requirements: 100.0% were addressed directly in the COMcheck software Project Information Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception Energy Code: 2015 IECC is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided. Project Title: Project Type: New Construction Plan Review Comments/Assumptions C103.2 Plans, specifications, and/or Calculations provide all information with which compliance can be determined for the interior lighting CNot Observable Construction Site: ☐Complies Requirement will be met. determined for the interior lighting and electrical systems and equipment Additional Efficiency Package(s) Credits: 1.0 Required 1.0 Proposed and document where exceptions to the standard are claimed. Information Reduced Lighting Power, 1.0 credit provided should include interior lighting power calculations, wattage of Allowed Interior Lighting Power B C D
Floor Area Allowed Allowed Watts
(ft2) Watts / ft2 (B X C) bulbs and ballasts, transformers and Area Category control devices. C406 Plans, specifications, and/or Complies Received Complies Received Complies Plans, specifications, and/or Complies Plans, specifications provide all information With which compliance can be determined for the additional energy efficiency package options. 1-Gymnasium Total Allowed Watts = 8714 **Proposed Interior Lighting Power** Additional Comments/Assumptions: B C D E Lamps/ # of Fixture (C X D) Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Fixture Fixtures Watt. LED: AE (PEI): 2X4 RECESSED TROFFER WITH BATTE: Other: 1 13 23 302 1 1 38 38 1 2 39 78 1 35 13 455 LED: A (GYM): 2X4 RECESSED TROFFER: Other: LED: BE: 2X2 LED LIGHT FIXTURE W/ EMERGE: Other: Electronic: LED: F (GYM): 6'; OPEN LED DOWNLIGHT: Other: 1 35 13 455 1 12 285 3420 1 11 285 3135 1 8 68 544 1 6 39 234 1 4 68 272 1 2 34 68 LED: H (GYM): LED HIGH BAY FIXTURE: Other: LED: HE: LED HIGH BAY FIXTURE W/BATTERY : Other: LED: P2: BEAM MOUNTED UPLIGHT STRIP: Other: LED: B (GYM): 2X2 LED LIGHT FIXTURE: Other: Electronic: LED: P2E: BEAM MOUNTED UPLIGHT STRIP: Other: LED: J (GYM): 4' GENERAL PURPOSE LED STRIP LI: Other: Electronic: 3 34 102

Total Proposed Watts = 8648 LED: JE: 4' GENERAL PURPOSE LED STRIP LI: Other: Electronic: Interior Lighting PASSES: Design 1% better than code Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory | 02-27-2023 | Date | requirements listed in the Inspection Checklist. Brian M. Armenta -PE Name - Title 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 02/27/23 Data filename: P:\Public\122\122609 Union Co Elections & Voter Registration Blairsville GA 22102\122609 Page 1 of 5 COMCHECK_GYM.cck Data filename: P:\Public\122\122609 Union Co Elections & Voter Registration Blairsville GA 22102\122609 Page 2 of 5
COMCHECK_GYM.cck Section
Rough-In Electrical Inspection Complies?
& Req.ID
Complies # & Req.ID Comments/Assumptions Final Inspection Complies? Comments/Assumptions C405.2.1 Lighting controls installed to uniformly Complies reduce the lighting load by at least Does Not C303.3, Furnished O&M instructions for systems and equipment to the \square Does Not building owner or designated □Not Observable □Not Observable [FI17]³ representative. □Not Applicable □Not Applicable C405.4.1 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. C405.2.1 Occupancy sensors installed in Requirement will be met. [EL18]¹ required spaces. \square Does Not □Not Observable □Not Applicable C405.2.1, Independent lighting controls installed Complies Requirement will be met.
C405.2.2. per approved lighting plans and all manual controls readily accessible and visible to occupants.

| C405.2.1, Independent lighting controls installed Complies Requirement will be met.
| Does Not | Not Observable | C408.2.5. Furnished as-built drawings for electric power systems within 90 days
[Fi16]3 electric power systems within 90 days
of system acceptance. ☐Not Applicable □Not Observable □Not Applicable C405.2.2. Automatic controls to shut off all building lighting installed in all buildings. C408.3 Lighting systems have been tested to [Complies Requirement will be met. | Does Not | Programming, and operation. | Not Observable \square Does Not □Not Observable □Not Observable □Not Applicable C405.2.3 Daylight zones provided with individual controls that control the lights independent of general area lighting.

C405.2.3 Daylight zones provided with individual controls that control the lights independent of general area lighting. □Not Applicable ☐Complies **Exception:** Requirement does not apply. Additional Comments/Assumptions: □Not Applicable C405.2.3, Primary sidelighted areas are ☐Complies Requirement will be met. C405.2.3. equipped with required lighting □Does Not controls. C405.2.3. ☐Not Observable □Not Applicable C405.2.3, C405.2.3. Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.

C405.2.3. Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls. \square Not Applicable C405.2.4 Separate lighting control devices for Specific uses installed per approved lighting plans. □Not Observable □Not Applicable [EL8]¹ allowed for special functions per the approved lighting plans and is □Not Observable separated from general lighting. C405.3 Exit signs do not exceed 5 watts per Complies Requirement will be met. □Not Observable □Not Applicable Additional Comments/Assumptions: 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 02/27/23 Data filename: P:\Public\122\122609 Union Co Elections & Voter Registration Blairsville GA 22102\122609 Page 3 of 5
COMCHECK_GYM.cck Data filename: P:\Public\122\122609 Union Co Elections & Voter Registration Blairsville GA 22102\122609 Page 4 of 5 COMCHECK_GYM.cck

Union County Gymnasium

51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR

CONSTRUCTION
Revisions

No. Date Description
- 04/10/23 Issued for Bid

No. 032547

PROFESSIONAL

M. ARNE

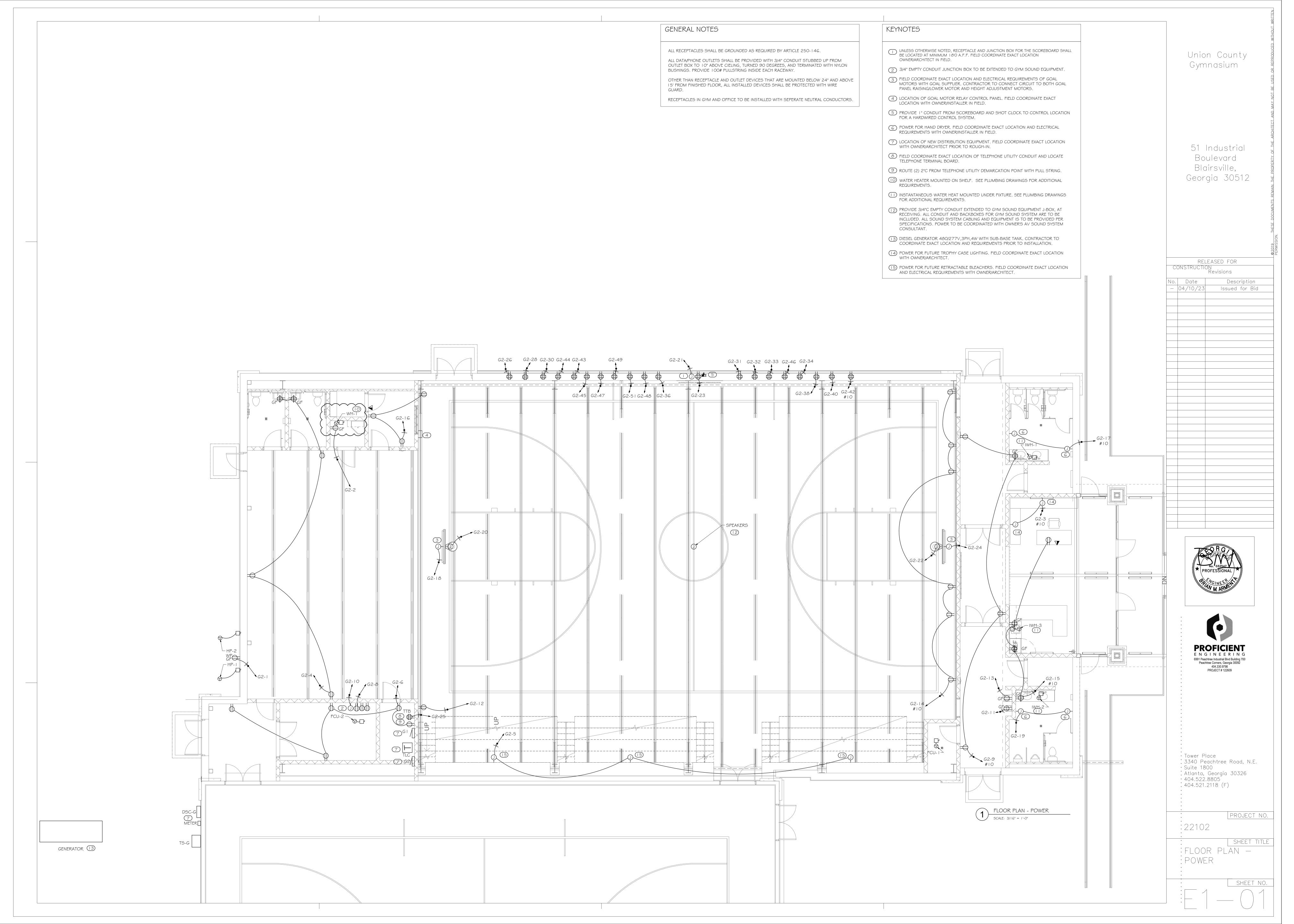


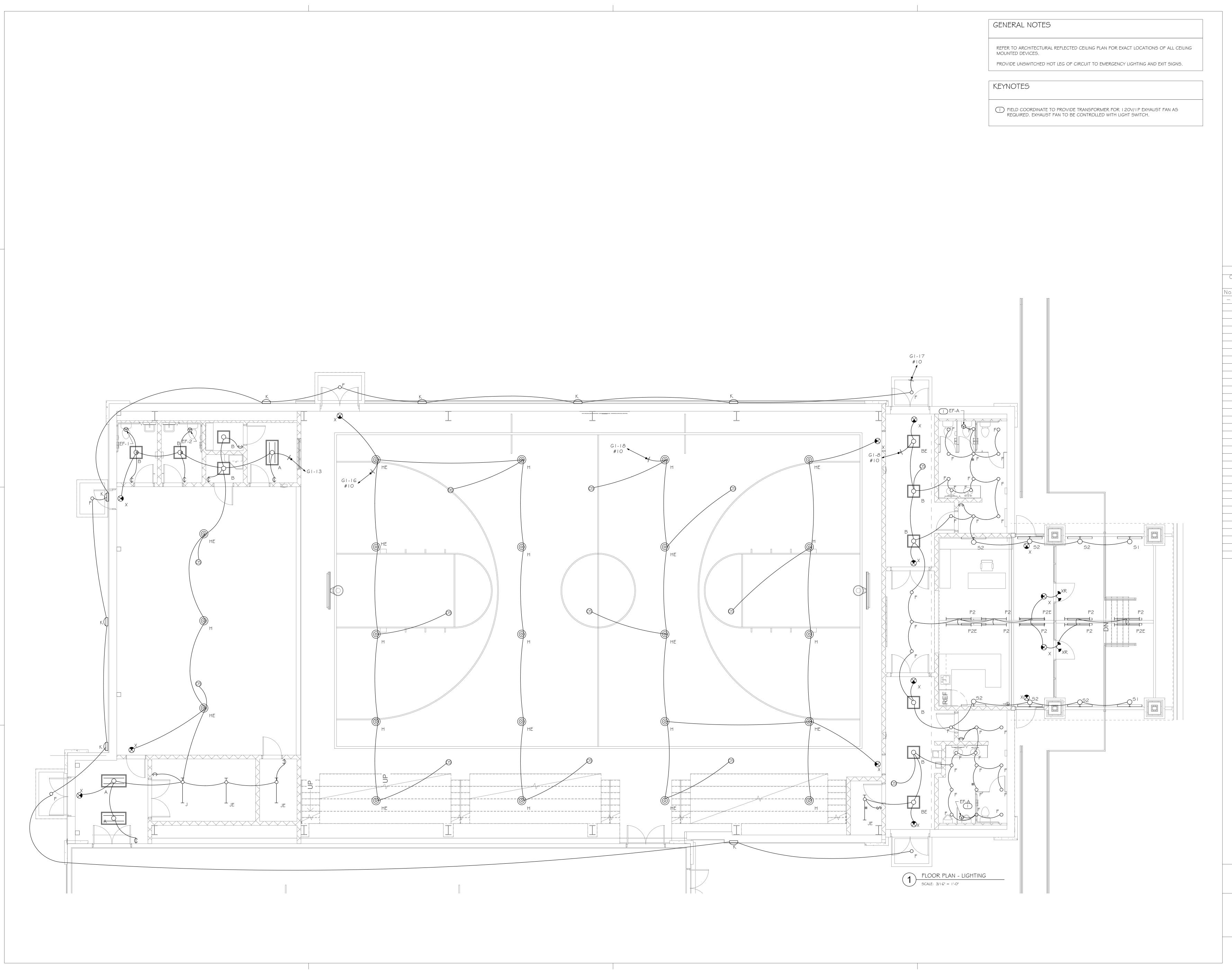
Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

PROJECT NO.

: SHEET TITLE : COMPLIANCE





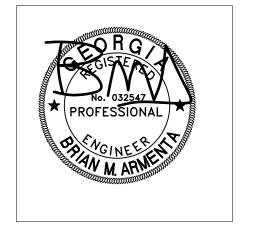


Union County Gymnasium

51 Industrial Boulevard Blairsville, Georgia 30512

No.		Description
_	04/10/23	Issued for Bid

RELEASED FOR





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

: :22102

SHEET TITLE

FLOOR PLAN —

LIGHTING

SHEET NO.

PROJECT NO.

ABBRI	EVIATIONS		
4AV	AIR ADMITTANCE VALVE	IMB	ICE MACHINE BOX
Ų C	ABOVE CEILING	IE	INVERT ELEVATION
√ 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
3FP	BACKFLOW PREVENTER	MS	MOP SINK
CD	CONDENSATE DRAIN	MV	MIXING VALVE
CONT	CONTINUATION	O/H	OVERHEAD
CW	COLD WATER	G	NATURAL GAS
ON	DOWN	PD	PUMPED DISCHARGE
T	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE
EWC	ELECTRIC WATER COOLER	RP	RECIRCULATION PUMP
ex.	EXISTING	S, SAN	SANITARY
-CO	FLOOR CLEANOUT	SH	SHOWER
=D	FLOOR DRAIN	SK	SINK
HB	FREEZEPROOF HOSE BIBB	TP	TRAP PRIMER
=5	FLOOR SINK	TYP	TYPICAL
FRH	FREEZEPROOF ROOF HYDRANT	UR	URINAL
₹WH	FREEZEPROOF WALL HYDRANT	V	VENT
GCO	GRADE CLEANOUT	VTR	VENT THROUGH ROOF
Gl	GREASE INTERCEPTOR	WC	WATER CLOSET
1B	HOSE BIBB	W.C.	WATER COLUMN
1D	HUB DRAIN	WCO	WALL CLEANOUT
НW	HOT WATER	WHA	WATER HAMMER ARRESTER
HWR	HOT WATER RETURN	WMB	WASHING MACHINE BOX

LEGEND	
	COLD WATER PIPE
	HOT WATER PIPE
	HOT WATER RETURN PIPE
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
E	PIPE CAP / PIPE CONTINUATION
-	DIRECTIONAL FLOW ARROW
-\$ * -	BALL VALVE / CHECK VALVE
——————————————————————————————————————	MIXING VALVE / PRESSURE REDUCING VALVE
	BACKFLOW PREVENTER ASSEMBLY
[c 	WALL HYDRANT / HOSE BIBB
	FLOOR DRAIN / FLOOR SINK
	WATER HAMMER ARRESTOR
<u>-</u> -×-	GAS COCK / GAS SOLENOID VALVE
\propto	P-TRAP
©c	HUB DRAIN
<u></u>	TRAP PRIMER
•	FLOOR CLEANOUT / GRADE CLEANOUT
⊗	VENT THROUGH ROOF
i ⊢	PIPE CLEANOUT / WALL CLEANOUT

SPECIFICATIONS

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

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

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

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

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

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

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

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

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

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 🎖 PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 🛂 🖰

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

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

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

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

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

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

URNISH 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 BROUGHT ON BY THE USE OF THIS EQUIPMENT.

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 BANITARY 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.

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.

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

FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

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

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

SPECIFICATIONS

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

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

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

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

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

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS. ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 3 | 2 . | 0 . 2 . | CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180°F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4½" DIAL SIZE, 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.

LARGER: I/S" THICK INSULATION

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

INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO 11/4": I" THICK INSULATION. PIPE 11/2" OR

INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO I ": 🔏" THICK. PIPING 🖟 AND OVER: I "THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN I "THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

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).

WATER HEATERS SHALL BE U.L. LISTED AND SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF U.S. DEPT. OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1.

WATER HEATERS SHALL HAVE I 50PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE ROD AND HIGH TEMPERATURE CUTOFF SWITCH. WATER HEATERS SHALL BE THERMOSTATICALLY CONTROLLED AND SET TO 120° UNLESS OTHERWISE NOTED. WATER HEATERS SHALL BE INSTALLED ON SUSPENDED PLATFORM, STEEL STAND OR CONCRETE PAD, AS INDICATED ON DRAWINGS.

WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.

STANDARD PRACTICES NO. SP-69 AND SP-58.

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.

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

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

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY

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

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.

RELEASED FOR

Description

Issued for Bid

. Date

- |04/10/23





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

:22102

SHEET TITLE GENERAL

SHEET NO.

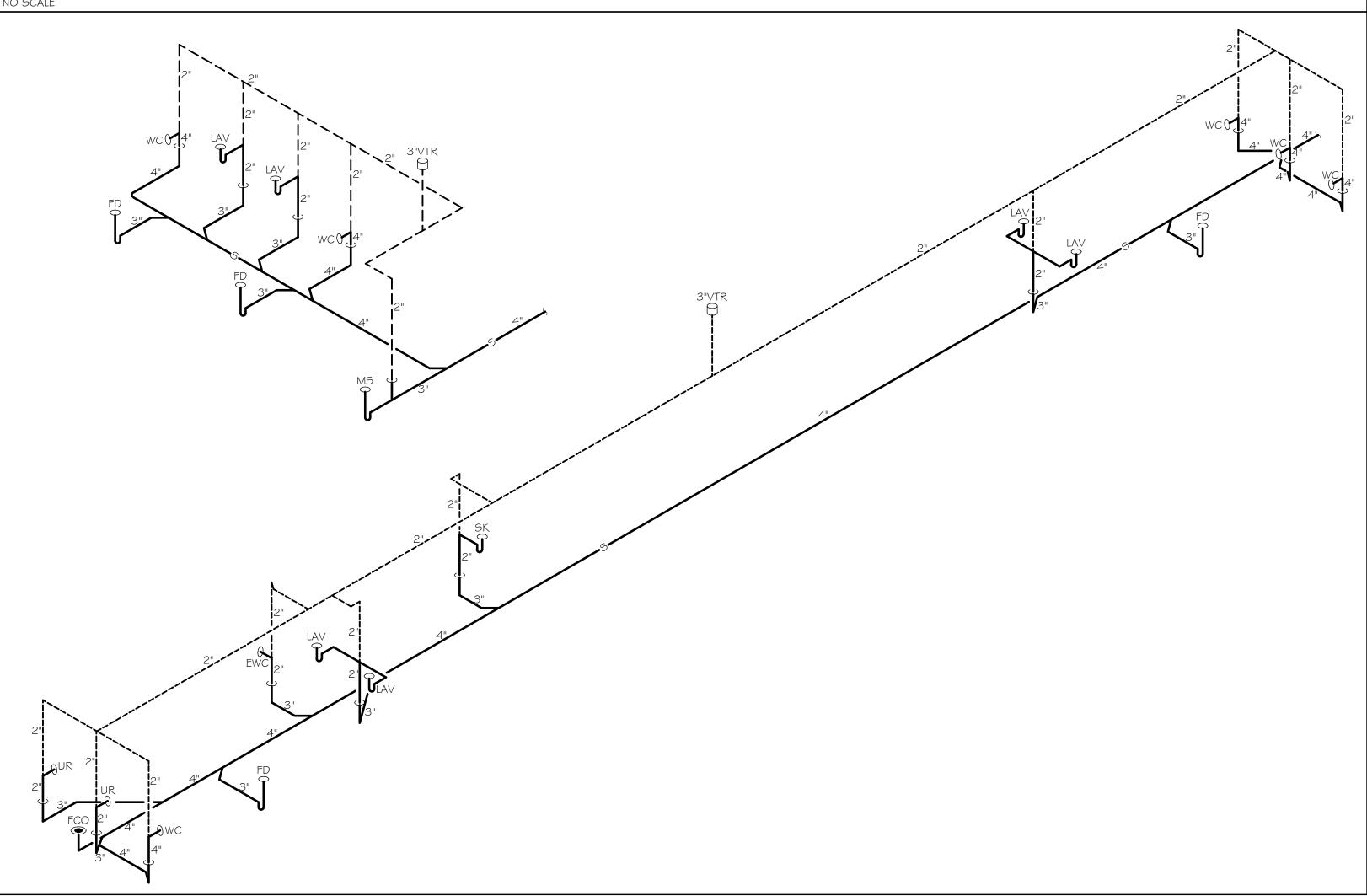
PROJECT NO.

INT ELECTRICAL BASIS NOTES
INPUT DAGIS NOTES
G.2 KW CHRONOMITE M-30L / MICROPROCESSOR CONTROLLE TEMPERATURE SETPOINT
8.3 KW CHRONOMITE M-40L / MICROPROCESSOR CONTROLLE 208 TEMPERATURE SETPOINT
_

ELECTRIC WATER HEATER SCHEDULE

MARK	TANK CAPACITY	RECOVERY	SETPOINT	ELECTRICAL	BASIS	TYPE			
WH-I	30 GAL	15 GPH @ 80° RISE	l 20°	3.0 KW	A.O. SMITH DEN-30	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.									

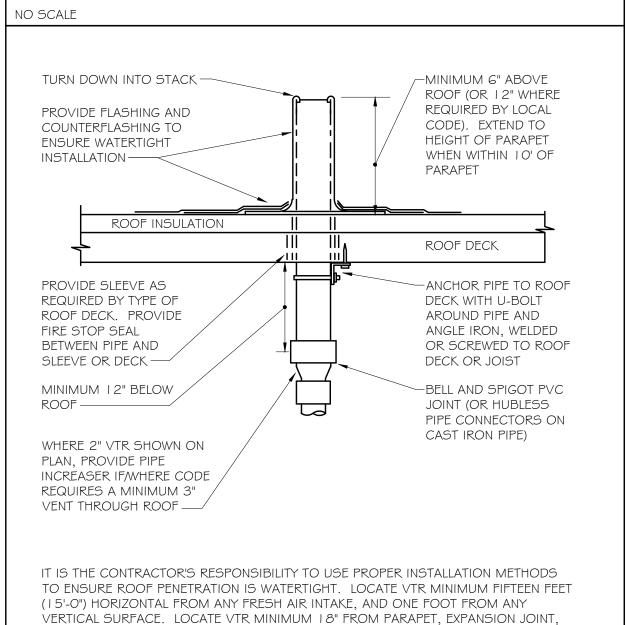
WASTE/VENT ISOMETRIC



PLUMBING FIXTURE SCHEDULE

	DESCRIPTION	WASTE RUNOUT		VENT	WATER RUNOUT		WATER CONN.		
MARK					CW	HW	CW	HW	SPECIFICATION
L-I	LAVATORY (ADA) - UNDERMOUNT	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	UNDERMOUNT LAVATORY (AMERICAN STANDARD "OVALYN," 0496.221) AND 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (ZURN Z81000-XL-3M). HANDICAP DRAIN OFFSET WIGRID DRAIN (ZURN 8746-PC) AND CHROME PLATED P-TRAP (ZURN Z8701-PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH 12" LONG X 3/8" FLEX SUPPLIES (MCGUIRE H165). WHERE NOT CONCEALED BY COUNTER SHROUD, INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," #103 E-Z). PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER HOT WATER TO 110 DEGREES (LEONARD 170-LF). LEAD FREE, ASSE 1070.
L-2	LAVATORY (ADA) - WALL HUNG	2"	1/2"	2"	1/2"	1/2"	3/8"	3/8"	WALL HUNG LAVATORY (AMERICAN STANDARD "LUCERNE," 0355.012) WITH CONCEALED ARM CARRIER MOUNTING (ZURN Z 231). PROVIDE 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (DELTA 50 LF-HGMHDF). HANDICAP DRAIN OFFSET WIGRID DRAIN (ZURN Z8746-PC) AND CHROME PLATED P-TRAP (ZURN Z870 -PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH FLEX SUPPLIES (MCGUIRE H 65). 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-I	WATER CLOSET - WALL MOUNT W/FLUSH VALVE	4"	3"	2"	I-I/4"		11		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"	I - I /4"		"		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 111-128). FLUSH CONTROL MUST BE LOCATED ON OPEN SIDE OF WATER CLOSET.
UR-I	URINAL - HIGH EFFICIENCY, WALL MOUNTED WIFLUSH VALVE	2"	2"	2"	l u		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 WITH ARCHITECTURAL DRAWINGS. PROVIDE CHROME PLATED URINAL FLUSHOMETER, 0.5 GPF (AMERICAN STANDARD "FLOWISE" 6045.051.002).
EWC-I	WATER COOLER (ADA) - BI-LEVEL	2"	1/2"	2"	1/2"		1/2"		BI-LEVEL WATER COOLER (ELKAY EZSTL&LC). ORIFICES AT 38 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 I 225-BL).
SK-I	STAINLESS STEEL SINK, UNDERMOUNT, SINGLE BOWL (ADA)	2"	/2"	2"	1/2"	1/2"	3/8"	3/8"	STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK (ELKAY ELUHAD 2 1555PD). BOWL DIMENSIONS: 23.5" L, 18.25" W, 5.5" D. ADA COMPLIANT 1.5 GPM FAUCET WITH PULL-OUT SPRAY (ELKAY LK5000), SINGLE HOLE MOUNTING. MCGUIRE CHROME PLATED P-TRAP W/C.O., CHROME PLATED BRASS ANGLE SUPPLY STOPS, 2" LONG X 3/8" FLEX SUPPLIES. PROVIDE 3/4 HP GARBAGE DISPOSAL (INSINKERATOR 'EVOLUTION COMPACT' OR EQUAL)
MS- I	MOP SINK	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	24"X24" FLOOR BASIN (FIAT MSB-2424) AND SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT (830-AA). PROVIDE HOSE AND BRACKET (832-AA), MOP HANGER (889-CC), STAINLESS STEEL BUMPERGUARD (E-88-AA) AND STAINLESS STEEL WALL GUARD (MSG2424).
FD-I	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"					GENERAL PURPOSE FLOOR DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 5" ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).
FCO	FLOOR CLEANOUT	see plan	see plan						FLOOR CLEANOUT WITH CAST IRON BODY AND ADJUSTABLE NICKEL BRONZE TOP (J.R. SMITH 4031). CLEANOUT SIZE SHALL MATCH LINE SIZE.
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 VOLUME, 0.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).
IMB- I	ICE MAKER/REFRIGERATOR BOX				1/2"		1/2"		ICE MAKER CONNECTION BOX (OATEY #385x/386xx SERIES), G"X6". LOW LEAD, 1/4 TURN BRASS VALVE WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTOR. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 39 I xx SERIES. PROVIDE BACKFLOW PREVENTER IN SUPPLY LINE (WATTS 'SD3,' ASSE 1022).
WF-I	WALL FAUCET IN WALL BOX				3/4"		3/4"		3/4" FAUCET HOSE CONNECTION WITH INTEGRAL BACKFLOW PREVENTER (ASSE 1 052), IN FLUSH MOUNTED, TAMPER RESISTANT WALL BOX (WOODFORD #B26). FOR INSTALLATION IN MILD CLIMATE AREAS.

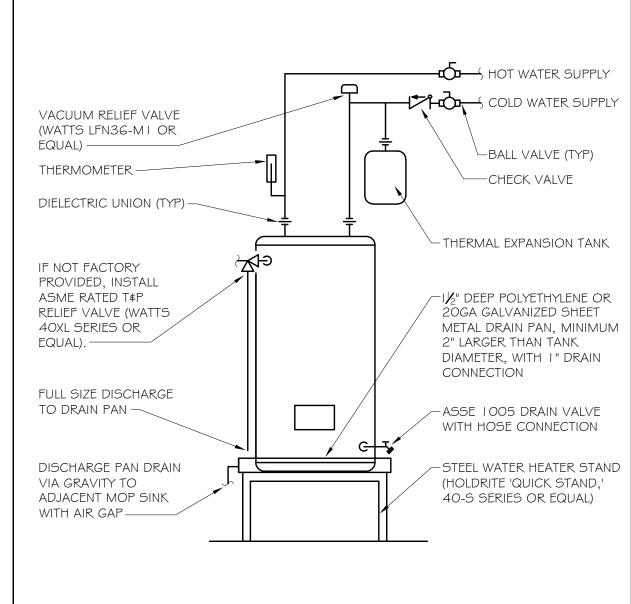
VENT THROUGH ROOF (VTR)



EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE

CONDITIONS.

STAND MOUNTED ELECTRIC WATER HEATER NO SCALE



Union County Gymnasium

51 Industrial Boulevard Blairsville, Georgia 30512

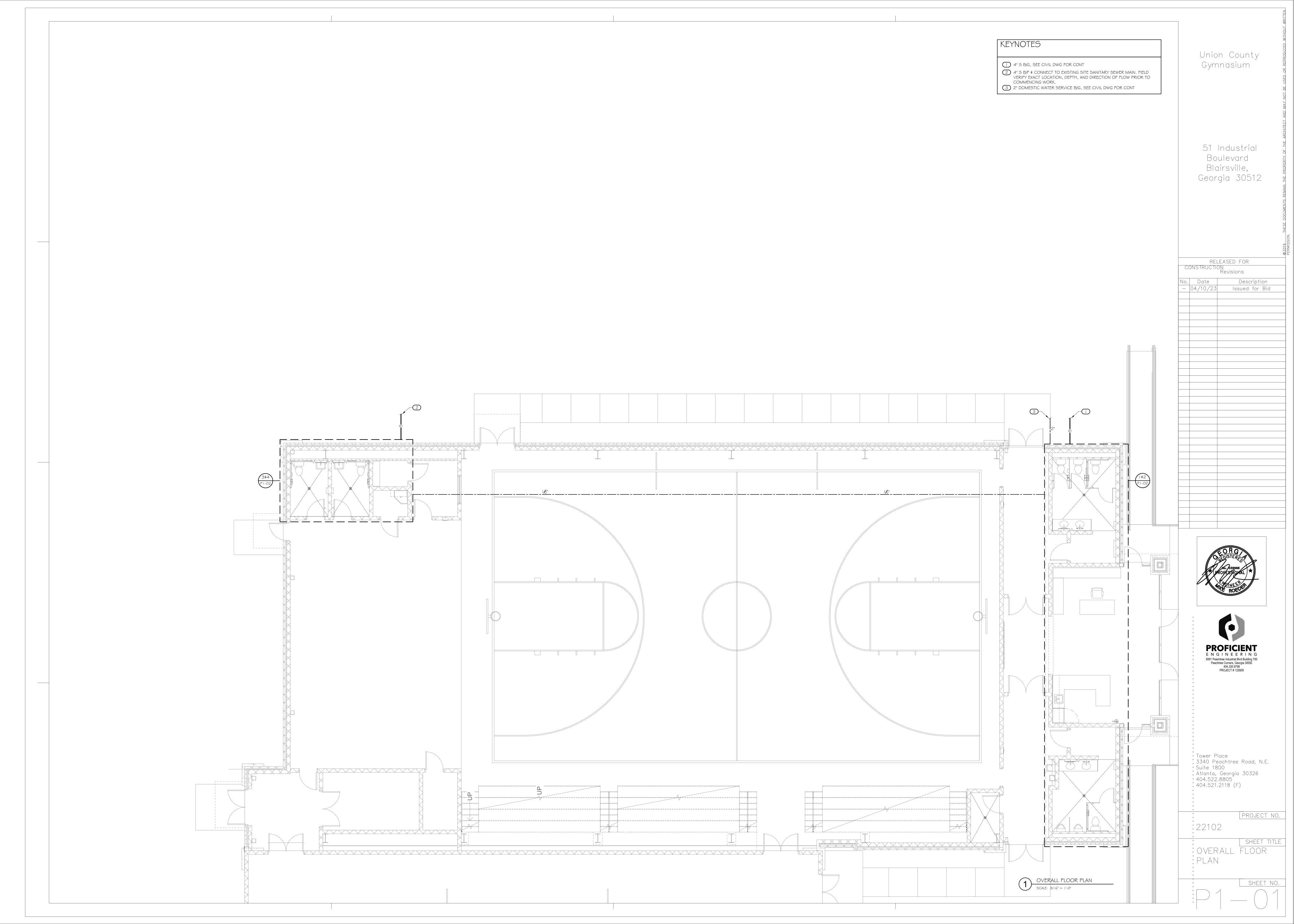
RELEASED FOR CONSTRUCTION Revisions Description Issued for Bid



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Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

PROJECT NO. :22102

SHEET TITLE SCHEDULES & DETAILS



KEYNOTES 1) 2" V DN 2) 3" V UP TO 3" VTR 3 3/4" CW \$ 3/4" HW TO SHELF MOUNTED WATER HEATER, SEE DETAIL 4 ½" CW & ½" HW DN 5 ½" CW DN (a) ½" CW TO INSTANTANEOUS WATER HEATER MOUNTED UNDER FIXTURE.
½" CW \$ ½" HW TO FAUCET.
(b) 1½" CW DN
(c) 1½" CW DN
(d) 1½" CW DN TO WATER CLOSET, PROVIDE WHA-A AT BASE OF DROP
(e) 3½" CW DN

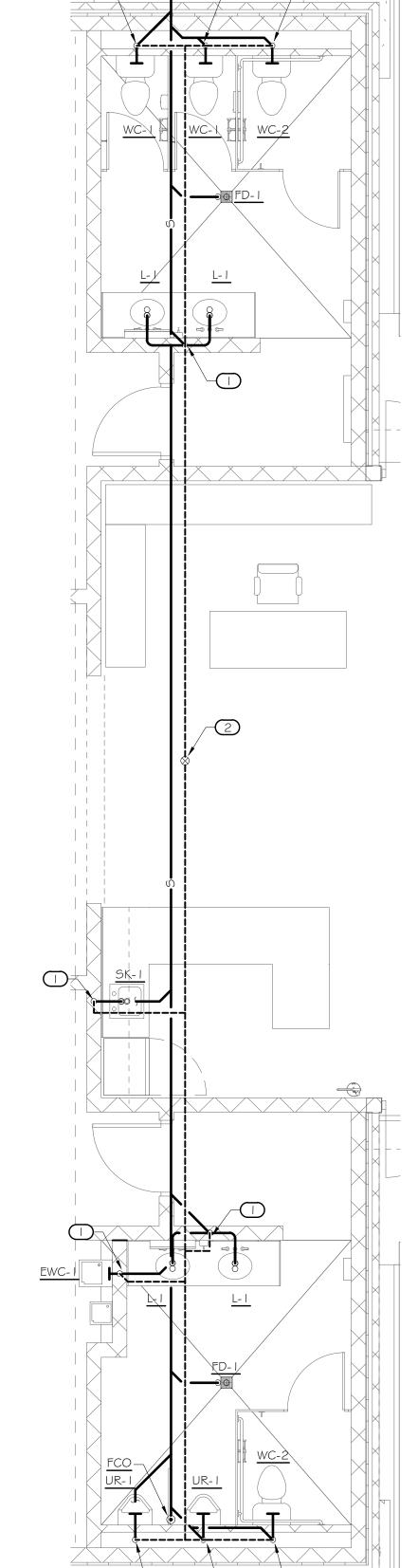
Union County Gymnasium

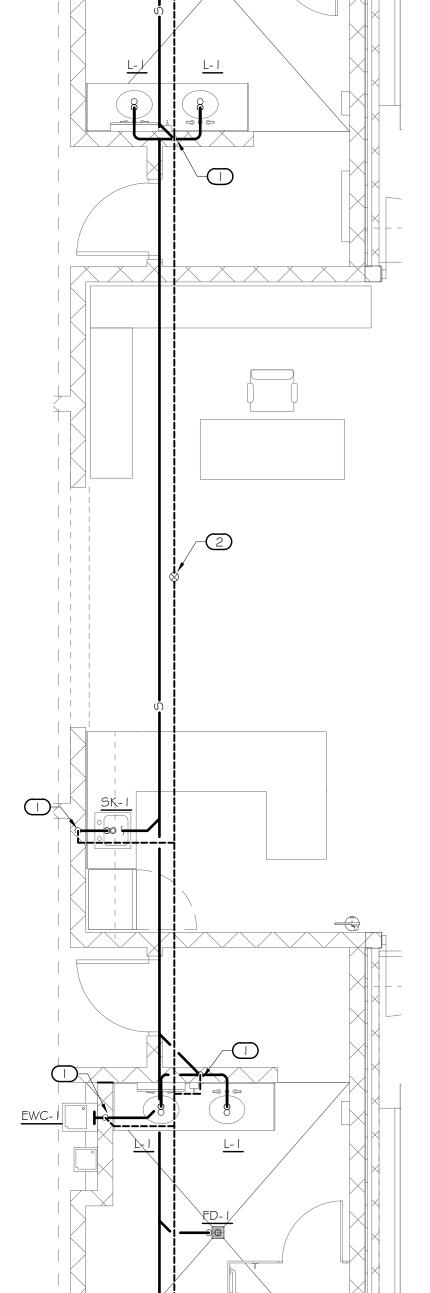
51 Industrial Boulevard Blairsville, Georgia 30512

RELEASED FOR CONSTRUCTION Revisions

Description Issued for Bid

No. Date - 04/10/23





ENLARGED FLOOR PLAN - WASTE & VENT

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

ENLARGED FLOOR PLAN - WATER

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

PROFICIENT
E N G I N E E R I N G
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 122609

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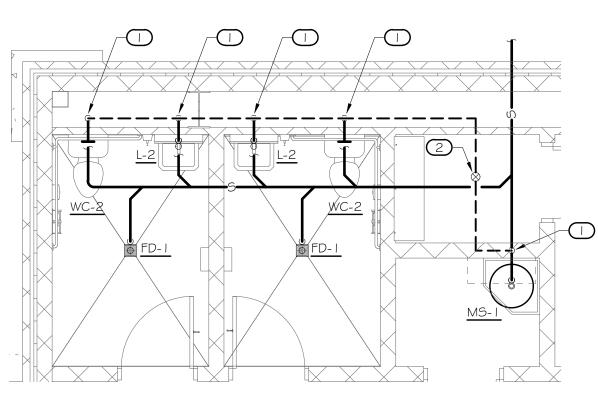
PROJECT NO. :22102

: SHEET TITLE : ENLARGED PLANS

SHEET NO.

ENLARGED FLOOR PLAN - WATER

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



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