UNION COUNTY FIRE STATION

PROJECT TEAM

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PHONE: 404.969.6895

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO EXECUTION OF THE WORK IN QUESTION.
2. ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE UNLESS CLEARLY SHOWN OR NOTED OTHERWISE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS WRITTEN NOTIFICATION TO THE CONTRARY IS ISSUED AND SIGNED BY THE OWNER AND/ OR ARCHITECT.
4. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN IN THE DOCUMENTS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION.
5. ALL VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUIT, AND SIMILAR ASSEMBLIES IN FINISHED ROOMS SHALL BE ENCLOSED IN A FINISHED CHASE. THE MATERIALS AND FINISHES OF SUCH CHASES SHALL MATCH ADJACENT FINISHED WALLS.
6. FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT MAY BE REQUIRED. ACCESS PANELS SHALL BE EQUAL IN FIRE RATING TO SURFACE IN WHICH THEY OCCUR. REFER TO ENGINEERING DRAWINGS FOR LOCATION OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
7. PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD AS SHOWN IN THE DRAWINGS. OR IF NOT SHOWN, MAXIMUM ALLOWED PER MANUFACTURERS SPECIFICATION.
8. TIGHTLY SEAL ANY OPENINGS IN FIRE RATED WALLS BY DUCTS, PIPES, CONDUIT, STRUCTURAL MEMBERS, OR ANY OTHER MATERIALS. OPENINGS IN METAL STUD PARTITIONS SHALL BE SEALED WITH FIRE SAFING.
9. GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION (TOILETS, SHOWERS, JANITORS CLOSET, ETC.) SHALL BE MOISTURE RESISTANT TYPE.
10. ALL GYPSUM WALL BOARD MATERIAL IN FIRE RATED ASSEMBLIES SHALL BE FIRE RESISTIVE UL CLASSIFIED MATERIAL APPLIED IN STRICT COMPLIANCE TO THE APPLICABLE FIRE TEST DESIGN WITH JOINTS ON OPPOSITE WALL FACES STAGGERED. FASTENERS SHALL BE OF APPROVED TYPE AND INSTALLED IN ACCORDANCE WITH APPLICABLE FIRE TEST. ALL WALLBOARD JOINTS IN ALL PARTITION WALLS SHALL BE TAPED AND FINISHED WITH JOINT COMPOUND, INCLUDING THOSE ABOVE THE FINISHED CEILING. PENETRATIONS FOR PIPES, CONDUIT, FRAMING MEMBERS, DUCTS, ETC. SHALL BE FRAMED WITH RUNNER CHANNELS AND TIGHTLY SEALED. SUCH PENETRATIONS SHALL BE TIGHTLY PACKED WITH MINERAL FIBER SAFING INSULATION.
11. IMMEDIATELY NOTIFY ARCHITECT IN WRITING IF ANY OMISSION, DISCREPANCY, AMBIGUITY, OR ERROR IN THE CONTRACT DOCUMENTS BE DISCOVERED OR IF ANY DOUBT AS TO THE MEANING OR INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS.
12. ALL ATTACHMENTS, SCREWS AND BOLTS BETWEEN STRUCTURAL STEEL AND TREATED WOOD, BLOCKING AND NAILERS SHALL BE GALVANIZED.
13. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, ETC. PER MFG. RECOMMENDATION.
14. SHOP DRAWINGS AND SAMPLES SHALL BE SUBMITTED FOR APPROVAL TO THE INTERIOR DESIGNER/ ARCHITECT PRIOR TO CONSTRUCTION AND/OR PURCHASE OF MATERIALS DESCRIBING THE OVERALL SCOPE AS WELL AS COMPLETE DETAILS OF WORK TO BE PERFORMED. ALL FABRICATION SHALL BE BASED ON ACTUAL FIELD DIMENSIONS.
15. CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY LOCAL AND STATE AND LOCAL CODES. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE STATE CODES AND NFPA 90-A SHALL BE FOLLOWED.
16. VISIT THE JOB SITE AND CHECK ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A PRICE FOR PERFORMING ANY WORK.
17. CONTRACTOR TO VERIFY WITH THE OWNER AND/OR OWNER'S REPRESENTATIVES ALL PLUMBING AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT PROVIDED BY THE OWNER.
18. INTERIOR CONTRACT DOCUMENTS HOLD PRECEDENCE OVER ENGINEER DOCUMENTS FOR LOCATIONS, MOUNTING HEIGHTS, ETC. IF THERE IS A CONFLICT BETWEEN DOCUMENTS, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION.

PROJECT NOTES/ APPLICABLE CODES

INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION WITH GA AMENDMENTS.

NATIONAL ELECTRIC CODE (NEC): 2020 EDITION

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

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

INTERNATIONAL PLUMBING CODE (IPC): 2018 EDITION WITH GA AMENDMENTS

INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2015 EDITION WITH GA SUPPLEMENTS AND AMENDMENTS

INTERNATIONAL FIRE CODE (IFC): 2018 EDITION

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

NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC): 2018 EDITION

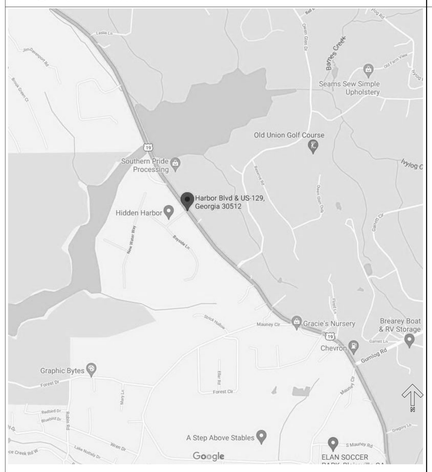
U.S. DEPT. OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA): 2010 EDITION

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

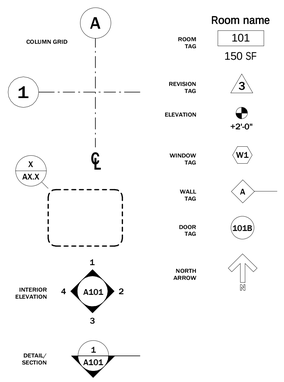
PROJECT INFORMATION

PROJECT DESCRIPTION:	UNION COUNTY FIRE STATION CONSTRUCTION	
PROJECT LOCATION:	HARBOR BOULEVARD AT MURPHY HIGHWAY BLAIRSVILLE, GEORGIA 30512	
OCCUPANCY CLASSIFICATION:	STORAGE (GROUP S-2) RESIDENTIAL (GROUP R-3) BUSINESS (GROUP B) ASSEMBLY (GROUP A-3)	
OCCUPANCY LOAD:	83	
CONSTRUCTION TYPE:	IIB PER IBC 2018, II(000) PER NFPA 2018	
NUMBER OF STORIES:	1	
SPRINKLER SYSTEM:	SPRINKLERED	
SQUARE FOOTAGE:	FIRST FLOOR:	7467 S.F.
	PORCH (UNENCLOSED)	653 S.F.
	TOTAL:	8119 S.F.

VICINITY MAP



LEGEND



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

VERTICAL FENESTRATION, METAL FRAMING WITH OR WITHOUT THERMAL BREAK : CLIMATE ZONE 4 EXCEPT MARINE		
FIXED FENESTRATION U-FACTOR	0.38	
ENTRANCE DOORS U-FACTOR	0.77	
OPERABLE FENESTRATION U-FACTOR	0.45	
PROJECTION FACTOR = A/B WHERE A=DEPTH OF PROJECTION, B=VERTICAL EXPOSURE		
GLAZING CONDITION	PROJECTION FACTOR (PF)	REQUIRED SHGC
WINDOWS UNDER NORTHEAST ENTRANCE	130.0" / 47.0" = 2.77	0.64
DOOR UNDER NORTHEAST ENTRANCE	130.0" / 37.0"=3.51	0.64
TYPICAL WINDOWS UNDER LOWER ROOF OVERHANG	30" / 47" = .64	0.64
DOORS UNDER LOWER ROOF OVERHANG	30" / 37" = .81	0.64
TYPICAL WINDOWS UNDER HIGHER ROOF OVERHANG	37"/36"=1.02	0.64
PATIO DOORS UNDER LOW ROOF OVERHANG - NORTHWEST	30"/59"=.51	0.64
GARAGE DOOR UNDER HIGHER ROOF OVERHANG	37"/44"=.84	0.64

IBC TABLE 601 COMPLIANCE

STRUCTURAL ELEMENT	CONST. TYPE	REQUIRED FIRE RESISTANCE (HR)	DETAIL REFERENCE
STRUCTURAL FRAME	II-B	0	N/A
BEARING WALLS, EXTERIOR	II-B	0	N/A
BEARING WALLS, INTERIOR	II-B	0	N/A
NONBEARING EXTERIOR WALLS	II-B	0	N/A
NONBEARING INTERIOR PARTITIONS	II-B	0	N/A
FLOOR CONSTRUCTION	II-B	0	N/A
ROOF CONSTRUCTION	II-B	0	N/A

IBC TABLE 506.2 COMPLIANCE

BUILDING AREA PER IBC 2018 TABLE 506.2	
FLOOR 1: MIXED BUSINESS (B) , ASSEMBLY (A-3), STORAGE (GROUP S-2) AND RESIDENTIAL (GROUP R-3)	
OCCUPANCY: BUSINESS (B)	
TABULATED ALLOWABLE AREA (SQ. FT.)	23,000
SPRINKLER INCREASE BY 506.3	92,000
ACTUAL AREA OF OCCUPANCY:	630
ACTUAL AREA / ALLOWED AREA:	630/92,000
OCCUPANCY: ASSEMBLY (A-3)	
TABULATED ALLOWABLE AREA (SQ. FT.)	9,500
SPRINKLER INCREASE BY 506.3	38,000
ACTUAL AREA OF OCCUPANCY	843
ACTUAL AREA / ALLOWED AREA:	843/38,000
OCCUPANCY: STORAGE (S-2)	
TABULATED ALLOWABLE AREA (SQ. FT.)	26,000
SPRINKLER INCREASE BY 506.3	104,000
ACTUAL AREA OF OCCUPANCY	3,711
ACTUAL AREA / ALLOWED AREA:	3,711/104,000
OCCUPANCY: RESIDENTIAL (R-3)	
TABULATED ALLOWABLE AREA (SQ. FT.)	UL
SPRINKLER INCREASE BY 506.3	UL
ACTUAL AREA OF OCCUPANCY	2,935
ACTUAL AREA / ALLOWED AREA:	2,935/UL
IBC 508.4.2 COMPLIANCE	0.0068 + 0.0221+.0357 =0.0646 < 1.0 OK
BUILDING HEIGHT PER IBC 2018 TABLE 504.3 & 504.4	
OCCUPANCY : BUSINESS (B)	
ALLOWED HEIGHT:	4 STORIES, 75 FEET
DESIGNED OCCUPANCY HEIGHT:	1 STORY, 36'-9"
OCCUPANCY: ASSEMBLY (A-3)	
ALLOWED HEIGHT:	3 STORIES, 75 FEET
DESIGNED OCCUPANCY HEIGHT:	1 STORY, 36'-9"
OCCUPANCY : STORAGE (S-2)	
ALLOWED HEIGHT:	4 STORIES, 75 FEET
DESIGNED OCCUPANCY HEIGHT:	1 STORY, 36'-9"
OCCUPANCY: RESIDENTIAL (R-3)	
ALLOWED HEIGHT:	4 STORIES, 75 FEET
DESIGNED OCCUPANCY HEIGHT:	1 STORY, 36'-9"

NOTE:
FOR PURPOSES OF DETERMINING ALLOWABLE HEIGHT AND AREA, FLOORS 1, A MIXED SEPARATED OCCUPANCY, USES THE METHOD OF IBC 508.4.2

PLUMBING FIXTURE CALCULATIONS

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

BUSINESS OCCUPANCY

OCCUPANCY		WATER CLOSETS				LAVATORIES			DF RATIO	DRINKING FOUNTAINS	BATHTUBS OR SHOWERS	SERVICE SINK
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	FEMALE				
BUSINESS	8	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	.16	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	.16	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	.1	.1	1 PER 100	.08	-	1
A-3	44	1 PER 125	.176	1 PER 65	.176	1 PER 200	0.26	0.26	1 PER 500	.088	-	1
R-3	17	1 PER 10	.85	1 PER 10	.85	1 PER 8	1.07	1.07	1 PER 100	.17	1 PER 8	1
S-2	14	1 PER 100	.07	1 PER 100	.07	-	-	-	1 PER 1000	.014	-	1
TOTAL REQUIRED			1.256		1.256		1.66	1.66		.352		1
TOTAL DESIGNED			3		3		3	3		0		1

Union County
Fire Station

Harbor Boulevard
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Blairsville, Georgia
30512

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Revisions

No.	Date	Description
	06.27.22	ISSUED
	07.18.22	REVISION 1

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TITLE SHEET

G0.00