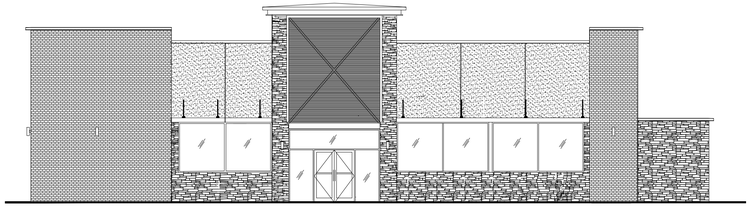
McDONOUGH C-STORE

HWY 155 @ HUNTERS CHASE DR.
McDONOUGH, GA 30253



ABBREVIATIONS

A	AMPERES	FA	FIRE ALARM	OC	ON CENTER
ACP	ACOUSTICAL CEILING PANEL	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER
ADD'L	ADDITIONAL	FFE	FINISH FLOOR ELEVATION	OPNG	OPENING
AFF	ABOVE FINISH FLOOR	FIN	FINISH	OPP	OPPOSITE HAND
ASF	ABOVE SUB FLOOR	FLR	FLOOR	PC	PLUMB. CONTRACTOR
ATS	ABOVE TOP OF SLAB	FT	FEET	PLMB	PLUMBING
ALT	ALTERNATE	FTG	FOOTING	PLYWD	PLYWOOD
ALUM	ALUMINUM	GALV	GALVANIZED	PNL	PANEL
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	PNLBD	PANEL BOARD
BD	BOARD	GFI	GROUND FAULT INTERUPTER	PREFAB	PREFABRICATED
BLDG	BUILDING	GND	GROUND	PROJ	PROJECT
BLK	BLOCK	GWB	GYPSUM WALLBOARD	PVC	POLYVINYL CHLORIDE
BLKG	BLOCKING	HDW	HARDWARE	R	RADIUS
BM	BEAM	HM	HOLLOW METAL	R	RISER
B.O.	BOTTOM OF	HORIZ	HORIZONTAL	RD	ROOF DRAIN
BRG	BEARING	HP	HIGH POINT OR HORSE POWER	RECEPT	RECEPTACLE
B/	BOTTOM OF	HT	HEIGHT	REINF	REINFORCING
C	CONDUIT	HVAC	HEATING/VENTILATION/AIR CONDITIONING	REQ'D	REQUIRED
CB	CIRCUIT BREAKER	ID	INSIDE DIAMETER	RES	RESILIENT
C/C	CENTER TO CENTER	IN	INCH	REV	REVISION
CJ	CONSTRUCTION JOINT	INFO	INFORMATION	RM	ROOM
CKT	CIRCUIT	INSUL	INSULATION	RO	ROUGH OPENING
CLG	CEILING	INT	INTERIOR	RTU	ROOF TOP UNIT
CLR	CLEAR	INV	INVERT	SECT	SECTION
CNTR	CENTER	JB	JUNCTION BOX	SHT	SHEET
CMU	CONCRETE MASONRY UNIT	JT	JOINT	SIM	SIMILAR
CO	CLEAN OUT	LAV	LAVATORY	SPEC	SPECIFICATIONS
COL	COLUMN	LIN	LINEAR	STL	STEEL
CONC	CONCRETE	LP	LOW POINT	STRUCT	STRUCTURAL
CONSTR	CONSTRUCTION	LT	LIGHT	STRL	STRUCTURAL
CONTR	CONTRACTOR	LTG	LIGHTING	TEL	TELEPHONE
CONT	CONTINUOUS	LVL	LAMINATED VENEER LUMBER	T & B	TOP AND BOTTOM
DET	DETAIL	MAX	MAXIMUM	T & G	TONGUE AND GROOVE
DIA	DIAMETER	MC	MECH. CONTRACTOR	T	TREAD
DIM	DIMENSION	MCB	MAIN CIRCUIT BREAKER	T.O.	TOP OF
DN	DOWN	MECH	MECHANICAL	TYP	TYPICAL
DS	DOWNSPOUT	MFR	MANUFACTURE (R) (ING)	UON	UNLESS OTHERWISE NOTED
DW	DRY WALL	MIN	MINIMUM	V	VOLTS
DWG	DRAWING	MISC	MISCELLANEOUS	VCT	VINYL COMPOSITION TILE
EA	EACH	MLO	MAIN LUGS ONLY	VERT	VERTICAL
EC	ELEC. CONTRACTOR	MO	MASONRY OPENING	VWC	VINYL WALL COVERING
EF	EXHAUST FAN	MT	MOUNT	WC	WATER CLOSET
EL	ELEVATION	MTD	MOUNTED	WD	WOOD
ELEC	ELECTRIC (AL)	MTGHT	MOUNTING HEIGHT	WH	WATER HEATER
ELEV	ELEVATOR	MTL	METAL	WP	WATER PROOF
EM	EMERGENCY	N	NORTH OR NEUTRAL	WR	WATER RESISTANT
EPS	EXPANDED POLYSTYRENE	NEC	NATIONAL ELECTRIC CODE	W/	WITH
EQUIP	EQUIPMENT	NIC	NOT IN CONTRACT	W/O	WITHOUT
EW	EACH WAY	NO or #	NUMBER	WWF	WELDED WIRE FABRIC
EWC	ELECTRIC WATER COOLER	NOM	NOMINAL		
EWH	ELECTRIC WATER HEATER	NTS	NOT TO SCALE		

LOCATION MAP

LIST OF CONTACTS

Owner:
STROUD & Co
Don Leonard

BUILDING INSPECTIONS
McDONOUGH
136 Keys Ferry St. 3rd Floor
McDonough, GA 30253
Ashley Roebuck - Henry County Building Dept.
140 Henry Pkwy - (770)288-6051
McDonough 30253
Aroebuck@co.henry.ga.us - (770)862-1632

Architectural Project coordinator
JC ATTANASIO
MRP DESIGN GROUP
3450 ACWORTH DUE WEST ROAD
SUITE 120

Architect of Record:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

Structural:
MATT McNEIL
DV+M STRUCTURAL
6065 Roswell Rd. Suite 970, 9th Floor
Atlanta, GA 30328
(770)262-7273

Civil (Under Separate Cover):
JEFF MASISAK
3459 Acworth Due West Rd
Acworth, GA 30101
(404)850-7790

Mechanical, Plumbing:
JONATHAN EDWARDS
3382 HIGHWAY 5 SUITE C
DOUGLASVILLE, GA 30135
(770)942-7052

Electrical:
JESS F. Mc.CULLOUGH
1820 REAVIS MOUNTAIN ROAD
BALL GROUND GA, 30107
(770)735-3405

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS AND OWNER.
2. STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATIONS. THE OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
4. FOR CONSTRUCTION DETAILS THAT ARE NOT SHOWN, USE THE MANUFACTURER'S APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. ALL SPECIFIED MATERIALS MUST BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND THE MANUFACTURER'S REQUIREMENTS SHOULD BE IDENTIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION AND DURING THE BID PHASE TO AVOID CHANGE ORDERS.
6. CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES FOUND ON THESE DOCUMENTS. IN THE ABSENCE OF NOTIFICATION OR RESPONSE FROM THE ARCHITECT THE CONTRACTOR WILL BID THE MOST EXPENSIVE CHOICE OF THE ITEMS IN QUESTION. THE CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE SAID DISCREPANCIES WITH THE ARCHITECT, LICENSEE AND OWNER FOR A FINAL DECISION PRIOR TO PURCHASE AND INSTALLATION OF MATERIALS IN QUESTION.
7. NO EMAILS WILL SUPERSEDE THESE DRAWINGS. G.C. MUST CONTACT THE ARCHITECT BY PHONE OR SIGNED RFI's.
8. CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR DOCUMENTATION NECESSARY TO VERIFY THAT ALL EXTERIOR ENVELOPE COMPONENTS REQUIRING PRODUCT APPROVAL PER 553.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS.

"Knox Box" Requirement:

IFC SECTION 506 KEY BOXES

IFC 506.1 REFERS TO AN LOCATION OF THE KEY BOX BEING OF WHICH IS TO BE DETERMINED BY THE FIRE CODE OFFICIAL (A) FIRE & EMERGENCY SERVICES REQUIRE ALL KEY BOXES BE LOCATED ON THE STREET SIDE/ADDRESS SIDE OF THE PROPERTY UNLESS OTHERWISE APPROVE BY THE FIRE MARSHAL'S OFFICE. THIS IS DETERMINED TAKING IN ACCOUNT THE LOCATION OF FIRE DEPARTMENT ACCESS, AND IS USUALLY DONE ON A SITE VISIT WITH THE G.C.

Municipal Requirements

1. THE GENERAL CONTRACTOR SHALL SUBMIT TO BUILDING INSPECTIONS, SOIL COMPACTION DATA PRIOR TO THE PLACEMENT OF CONCRETE.
2. PLANS AND DESIGN CRITERIA FROM THE ROOF TRUSS MANUFACTURER SHALL BE SUBMITTED TO THE BUILDING INSPECTORS. THE DATA PROVIDED SHOULD BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER. THE PLANS SHOULD INCLUDE DEAD LOAD, LIVE LOAD, WIND LOAD, AND COLLATERAL LOADING FOR ALL COMPONENT SECTIONS
3. EXHAUST HOODS AND FIRE SUPPRESSION SYSTEMS ARE TO BE APPROVED BY THE APPROPRIATE AUTHORITIES (FIRE MARSHALL, ETC.) IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN APPROVALS.
4. THE SUBCONTRACTOR FOR THE EXHAUST HOOD SUPPRESSION SYSTEM SHALL EACH SUBMIT PLANS FOR EVALUATION AND APPROVAL PRIOR TO COMMENCEMENT OF NEW WORK PER NFPA 96.

General notes

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO BUILD PER ALL APPLICABLE CODES AND REGULATIONS: FEDERAL, STATE, AND LOCAL.
2. ALL SUBCONTRACTORS INCLUDING MECHANICAL, PLUMBING, AND ELECTRICAL SHALL BE RESPONSIBLE FOR SECURING PERMITS FOR THEIR WORK & TRADE UTILITY. FURTHER DRAWINGS (IF REQUIRED) FOR PERMITS AND UTILITY HOOK- UPS SHALL ALSO BE BY THE SUBCONTRACTOR.
3. ANY DISCREPANCIES WITHIN THESE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR WILL MAKE ASSUMPTIONS AT HIS OWN EXPENSE.
4. THE GENERAL CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS PER NFPA 10 (OR LOCAL AUTHORITY). FIRE EXTINGUISHERS SHALL BE MOUNTED, TOP = 48" AFF.
5. THIS STATEMENT SHALL NOT GOVERN OVER MANUFACTURERS' WARRANTIES. THE GENERAL CONTRACTOR SHALL WARRANTY HIS WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF OCCUPANCY & ACCEPTANCE OF WORK BY THE OWNER. DEFECTIVE OR INFERIOR MATERIALS OR WORKMANSHIP FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND ALSO DURING THE WARRANTEE PERIOD MAY BE REJECTED, REGARDLESS OF PREVIOUS INSPECTION. CORRECTIVE MEASURES WHEN REQUIRED SHALL BE EXECUTED AT NO ADDITIONAL COST TO THE OWNER.
6. ALL MATERIALS RELATED TO THIS WORK SHALL BE: SHIPPED, STORED AND INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.
7. THE G.C. WILL LEAVE THIS SITE FREE AND CLEAR OF DEBRIS UPON COMPLETION OF THE WORK.
8. UPON COMPLETION OF BUILDING & ACCEPTANCE BY THE OWNER THE CONTRACTOR SHALL PROVIDE, PREPARE, ASSEMBLE, AND TRANSMIT TO THE OWNER THE FOLLOWING: MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT, WARRANTIES FOR ALL EQUIPMENT FOR A MINIMUM OF ONE YEAR FROM THE ACCEPTANCE DATE, KEYS WITH SCHEDULE AND DEMONSTRATE THE EQUIPMENT.
9. TERMITE PROTECTION SHALL BE PROVIDED UNDER THE FLOOR SLAB. INSTALLATION AND WARRANTEE SHALL BE PER THE INTERNATIONAL BUILDING CODE.

Occupancy

OCCUPANT LOAD - (LSC TABLE 7.3.2.1.)
CONVENIENCE STORE RETAIL - 2015/ 30 = 68
STORAGE - 48/ 300 = 1
GAMES - 94/11 = 9
KITCHEN - 448/ 100 = 5
OFFICE - 71/ 150 = 1
CASHIER - 154/ 30 = 6

TOTAL OCCUPANCY = 90
BUILDING FIRE PROTECTION: NOT SPRINKLED

PROJECT INFORMATION

Building Design

Square Footage:	4,570 SF
Occupancy Classification:	Mercantile
Construction Type:	Type V B
Allowable Height and Area:	40 FT / 9,000 SF CONVENIENCE STORE
Proposed Height and Area:	28'-0" FT / 4,570 SF (OK) CONVENIENCE STORE

Applicable Codes

Building Code - 2018 INTERNATIONAL BUILDING CODE w/ 2020, 2022, 2024, 2025 GA. AMENDMENTS
Plumbing Code - 2018 INTERNATIONAL PLUMBING CODE w/ 2020, 2022, 2023, 2024 GA. AMEND.
Mechanical Code - 2018 INTERNATIONAL MECHANICAL CODE w/ 2020, 2024 GA. AMENDMENTS
Fuel Gas Code - 2018 INTERNATIONAL FUEL-GAS CODE w/ 2020, 2022 GA. AMENDMENTS
Electrical Code - 2020 NATIONAL ELECTRICAL CODE
Fire Code - 2018 INTERNATIONAL FIRE CODE
Fire Safety - 2018 NFPA 101 LIFE SAFETY CODE w/ 2022 GA. STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72)
Accessibility Code - GA. ACCESSIBILITY CODE CHAPTER 120-3-20A, REFERENCING THE ADA 2010 EDITION, w/ 2022 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11
Energy Code - 2015 INTERNATIONAL ENERGY CONSERVATION CODE w/ 2020, 2022, 2023 GA. AMENDMENTS

Automatic Sprinkler System:
FIRE SPRINKLER SYSTEMS ARE NOT REQUIRED BY GEORGIA 2018 FIRE CODE. THE CITY ORDINANCE REFERENCES THE GEORGIA FIRE PREVENTION CODE REQUIREMENTS FOR FIRE PROTECTION AND LIFE SAFETY FOR THE CITY. THE CODE IS ADOPTED BY ORDINANCE.

Fire Ratings

	Type VB
Structural Frame:	0 hrs
Interior Walls:	0 hrs
Bearing Walls (Ext & Int):	0 hrs
Non-bearing Walls & Partitions:	0 hrs
Floor Construction:	0 hrs
Roof Construction:	0 hrs

Building Information and Notes

OCCUPANCY CLASSIFICATION: __M___, TYPE OF CONSTRUCTION: __VB___, SPRINKLED: __NO__, FIRE SPRINKLER MONITORING: NO_, 1-HOUR PROTECTED: __NO_, BUILDING AREA IN SQUARE FEET: 4570 , NUMBER OF STORIES: __1___, MEZZANINE: __N/A___, CALCULATED LOAD FOR OCCUPANCY: __90__ MIXED USE TO BE DETERMINED PERMIT FOR SHELL BUILDING ONLY

[SIGNAGE] GENERAL SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SEC. 7.2.1, 2024 EDITION. FIRE DOOR ASSEMBLIES SHALL CONFORM TO NFPA 80.

(FIRE EXTINGUISHERS) PROVIDE PORTABLE FIRE EXTINGUISHER PER GEORGIA 2012 CODE FOR PLACEMENT OF FIRE EXTINGUISHERS. SEE LS-100 FOR TYPES & LOCATIONS. FIRE EXTINGUISHERS ARE REQUIRED AND SHALL BE INSTALLED AT A MAX. OF 48" ABOVE THE FINISHED FLOOR TO THE TOP OF THE HANDLE. TRAVEL DISTANCE TO A FIRE EXTINGUISHER SHALL NOT EXCEED 75', FOR TYPE K, TRAVEL DISTANCE SHALL NOT EXCEED 30'. FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE. PREFERABLY THEY SHALL BE LOCATED ALONG NORMAL PATHS OF TRAVEL, INCLUDING EXITS FROM AREA. ALL WORK AND INSPECTIONS OF PORTABLE FIRE EXTINGUISHERS SHALL BE PERFORMED BY A STATE CERTIFIED AGENT.

[SIGNAGE FOR RESTROOM BY TENANT]: SHALL BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHTS SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.

SYMBOL LEGEND

BLDG. CROSS SECTION
SECTION NUMBER
1
A002
SHEET NUMBER

4-VIEW CALL-OUT
VIEW NUMBER
A1
D1
A402
B1
C1
SHEET NUMBER

DETAIL BUBBLE
MODULE ID NUMBER
A1
A002
SHEET WHERE DETAIL WILL BE FOUND

REVISION

ELEVATION CALL-OUT
ELEVATION NUMBER
A1
A002
SHEET NUMBER

DOOR CALL-OUT
4

SECTION CUT
SECTION NUMBER
A1
A002
SHEET NUMBER

WINDOW CALL-OUT
A

KEYED NOTES
A

DRAWING I.D. NUMBER
SHEET DESIGNATION
1/4" = 1'-0"
DRAWING SCALE
DETAIL LOCATION
X/A100
X/A101

DUMPSTER ENCLOSURE PERMITTING NOTE:
DUMPSTER ENCLOSURE TO BE PERMITTED SEPARATELY

CANOPY PERMITTING NOTE:
CANOPIES TO BE PERMITTED SEPARATELY

INDEX OF DRAWINGS

SHEET	DESCRIPTION	REVISIONS 1	2	3	4	5	6	7
GENERAL								
G000	COVER SHEET	X						
G001	ENERGY COMPLIANCE REPORTS							
LS100	LIFE SAFETY PLAN	X						
C-03	CIVIL SITE PLAN (FOR REFERENCE ONLY)	X						
ARCHITECTURAL								
A0.1	ARCHITECTURAL SITE PLAN							
A100	FLOOR PLAN							
A101	FLOOR FINISH PLAN							
A102	REFLECTED CEILING PLAN							
A103	ROOF PLAN							
A200	EXTERIOR ELEVATIONS	X						
A201	EXTERIOR ELEVATIONS	X						
A202	CROSS SECTIONS	X						
A203	WALL SECTIONS	X						
A204	WALL SECTIONS	X						
A205	WALL SECTIONS	X						
A206	WINDOW TYPES & DETAILS							
A207	DOOR SCHEDULE & DETAILS							
A208	ENLARGED BATHROOM PLANS & ELEVATIONS							
STRUCTURAL								
S000	STRUCTURAL NOTES							
S100	FOUNDATION PLAN							
S101	FOUNDATION DETAILS							
S102	FOUNDATION DETAILS							
S200	ROOF FRAMING PLAN							
S201	BUILDING SECTIONS							
S202	BUILDING SECTIONS							
S203	TOWER DETAILS							
S204	ROOF FRAMING DETAILS							
S205	LADDER DETAILS							
S300	WALL DETAILS							
S301	MISC DETAILS							
MECHANICAL								
M000	NOTES, SCHEDULES, LEGEND - HVAC							
M100	FLOOR PLAN - HVAC							
M101	ROOF PLAN - HVAC							
M200	HOOD DETAILS							
M300	HOOD DETAILS	X						
M301	HOOD DETAILS							
M302	HOOD DETAILS							
M303	DOAS DETAILS							
M304	DOAS DETAILS							
M305	HOOD SYSTEM WIRING DIAGRAMS							
M306	HOOD SYSTEM WIRING DIAGRAMS							
PLUMBING								
P000	PLUMBING NOTES & LEGEND							
P001	PLUMBING SCHEDULES & DETAILS							
P100	FLOOR PLAN WASTE & VENT							
P101	FLOOR PLAN WATER & GAS							
P200	PLUMBING DETAILS							
P201	PLUMBING DETAILS							
P300	PLUMBING RISERS							
ELECTRICAL								
E000	ELECTRICAL, LEGEND, & SPECS							
E001	RISER DIAGRAM & LOAD CALCS	X						
E100	LIGHTING PLAN							
E200	POWER PLAN							
E201	ROOF POWER PLAN							
E300	ELECTRICAL SITE PLAN							

REVIEWED FOR ZONING COMPLIANCE
These plans have been reviewed under the applicable zoning regulations in effect at the time of submittal. Reasonable effort has been exercised in checking for compliance with the Unified Land Development Code and related ordinances. The stamping of these plans shall not be construed to be a permit for, or an approval of, any violation of zoning regulations, County ordinances, resolutions, or amendments thereto.
Kamau As-Salaam — 8:38 am, Nov 03 2025
Deputy Director, Planning and Zoning — Date

REVIEWED FOR CODE COMPLIANCE
These plans have been reviewed under the applicable building regulations in effect at the time of submittal. Reasonable effort has been exercised in checking for compliance with the International Building Code and related ordinances. The stamping of these plans shall not be construed to be a permit for, or an approval of, any violation of building regulations, County ordinances, resolutions, or amendments thereto.
Ashley Roebuck, CGI#1042881 — 9:04 am, Nov 03 2025

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:
STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO.
REGISTERED ARCHITECT

MRP DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	09-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
COVER SHEET

PROJECT NO: 24022

G000

THESE PLANS ARE THE PROPERTY OF MRP DESIGN GROUP, INC. AND ARE SUBJECT TO FEDERAL COPYRIGHT LAWS. ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF MRP DESIGN GROUP, INC. IS STRICTLY PROHIBITED

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COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	MC DONOUGH GA C-STORE
Location:	McDonough, Georgia
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	10%

Construction Site:
HWY 155 @ HUNTERS CHASE DR.
MC DONOUGH, Georgia 30253

Owner/Agent:
DON LEONARD
STROUD & COMPANY
Georgia

Designer/Contractor:
THOMAS E. MORGAN
MRP Design Group
3450 Acworth Due West Rd NW
Kennesaw, Georgia 30144
7709179172

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Dedicated Outdoor Air System, 1.0 credit

Building Area	Floor Area
1-Retail : Nonresidential	4570

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Retail]	4570	26.0	26.0	0.019	0.027
Floor: Unheated Slab-On-Grade, Horizontal with vertical 2 ft., [Bldg. Use 1 - Retail] (c)	280	----	10.0	0.700	0.700
NORTH					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	1846	19.0	5.0	0.047	0.064
EAST					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	861	19.0	5.0	0.047	0.064
SOUTH					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	1846	19.0	5.0	0.047	0.064
WEST					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	861	19.0	5.0	0.047	0.064
Window: Metal Frame: Fixed, Perf. Specs.: Product ID KAWNEER, SHGC 0.25, [Bldg. Use 1 - Retail] (b)	309	----	----	0.290	0.460
Window: Metal Frame: Fixed, Perf. Specs.: Product ID KAWNEER, SHGC 0.25, [Bldg. Use 1 - Retail] (b)	104	----	----	0.290	0.460
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID KAWNEER, SHGC 0.25, [Bldg. Use 1 - Retail] (b)	104	----	----	0.290	0.770
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	24	----	----	0.100	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 27% better than code

Envelope Compliance Statement

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

JEC ATTANASIO PROJECT MGR. — Name - Title
Signature
02/23/25 — Date

COMcheck Software Version 4.1.5.3

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	C-Store McDonough
Project Type:	New Construction
Exterior Lighting Zone	2 (Neighborhood business district (LZ2))

Construction Site:
HWY 55 @ Hunter Chase DR
McDonough, Georgia 30253

Owner/Agent:
Don Stroud
Georgia

Designer/Contractor:
Ken Mason
MRP Design Group
3450 Acworth Due West Road
Kennesaw 30144
770-917-9172
kmason@mrpdesign.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	43300 ft2	0.06	Yes	2598
Illuminated area of facade wall or surface	6720 ft2	0.1	No	672
		Total Tradable Watts (a) =		2598
		Total Allowed Watts =		3270
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (43300 ft2): Tradable Wattage				
LED 1: SITE TYPE A: LED POLE LIGHT: LED Roadway-Parking Unit 130W:	1	8	135	1080
Illuminated area of facade wall or surface (6720 ft2): Non-tradable Wattage				
LED 2: TYPE G: LED WALL PACK: LED Panel 44W:	1	9	47	423
LED 3: TYPE N: LED CANOPY LT: LED Panel 40W:	1	13	40	520
		Total Tradable Proposed Watts =		1080

Exterior Lighting PASSES: Design 63% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jesse F. McCullough, EE — Name - Title
Jesse F. McCullough — Signature
08/21/2025 — Date

COMcheck Software Version 4.1.5.3

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	C-Store McDonough
Project Type:	New Construction

Construction Site:
HWY 55 @ Hunter Chase DR
McDonough, Georgia 30253

Owner/Agent:
Don Stroud
Georgia

Designer/Contractor:
Ken Mason
MRP Design Group
3450 Acworth Due West Road
Kennesaw 30144
770-917-9172
kmason@mrpdesign.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Dedicated Outdoor Air System, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Retail:Sales Area	4570	1.59	7266
		Total Allowed Watts =	7266

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Retail:Sales Area				
LED 1: TYPE A/B: 2X2 LED TROFFER: LED Panel 36W:	1	13	35	455
LED 2: TYPE C: 4' STRIPLIGHT: LED Panel 36W:	1	3	35	105
LED 3: TYPE F: 4" LED DOWNLIGHT: LED Linear 22W:	1	34	22	748
LED 4: TYPE M: LED PENDANT LT: LED Panel 70W:	1	19	66	1254
		Total Proposed Watts =		2562

Interior Lighting PASSES: Design 65% 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 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jesse F. McCullough, EE — Name - Title
Jesse F. McCullough — Signature
08/21/2025 — Date

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	C-Store McDonough
Location:	McDonough, Georgia
Climate Zone:	3a
Project Type:	New Construction

Construction Site:
HWY 55 @ Hunter Chase DR
McDonough, Georgia 30253

Owner/Agent:
Don Stroud
Georgia

Designer/Contractor:
Ken Mason
MRP Design Group
3450 Acworth Due West Road
Kennesaw 30144
770-917-9172
kmason@mrpdesign.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Dedicated Outdoor Air System, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
2	HVAC System (Single Zone w/ PerimeterSystem): Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE Cooling: 1 each - Packaged Terminal Unit, Capacity = 92 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.50 EER, Required Efficiency = 9.50 EER, Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
1	Water Heater: Gas Storage Water Heater, Capacity: 50 gallons, Input Rating: 100 kBtu/h w/ Circulation Pump Proposed Efficiency: 90.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

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

Jonathan Edwards, PE — Name - Title
Signature
8/21/25 — Date

REVIEWED FOR CODE COMPLIANCE
Approved
Fulton County
Date: 09/08/2025
Ashley Stallard, ICC#16156882, PE for FC DCD
Comments:

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO. 029179
REGISTERED ARCHITECT

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www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

ENERGY COMPLIANCE REPORTS

PROJECT NO: 24022

G001

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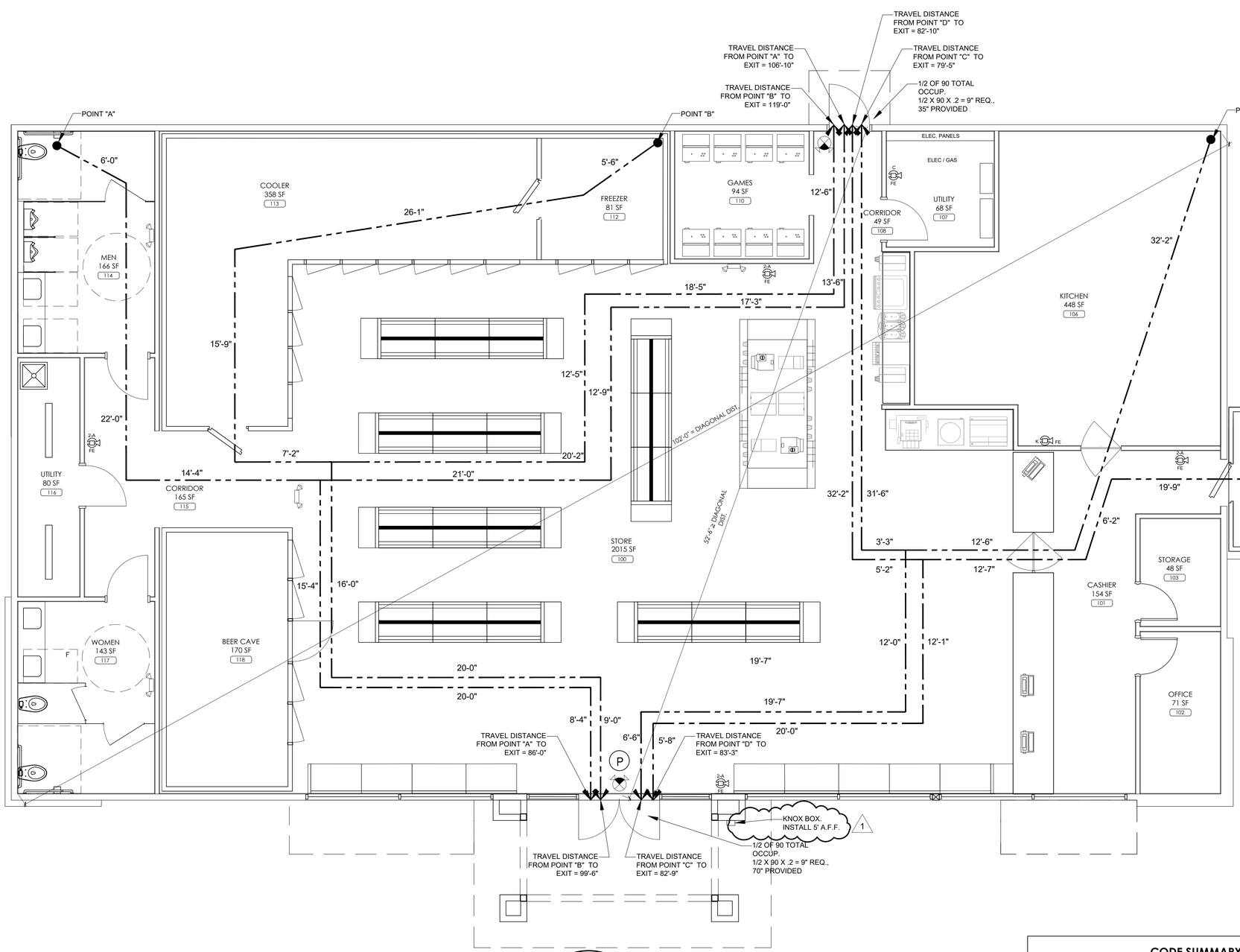

FIRE EXTINGUISHER TYPES

2-A	CLASS 2-A, 10 Lb. EXTINGUISHER (PER NFPA 10): FOR CLASS A HAZARDS IN ORDINARY (MODERATE) HAZARD OCCUPANCY. (I) EXTINGUISHER PROVIDES 1,500 S.F. OF PROTECTION IN DINING AREA - DISTANCE TO EXTINGUISHER NOT TO EXCEED 75'-0"
C	CLASS C, 10 Lb. EXTINGUISHER (PER NFPA 10): REQUIRED WHERE ENERGIZED ELECTRICAL EQUIPMENT CAN BE ENCOUNTERED THAT WOULD REQUIRE A NON - CONDUCTING EXTINGUISHING MEDIUM
K	CLASS K, 10 Lb. EXTINGUISHER (PER NFPA 10): PROVIDED FOR HAZARDS WHERE THERE IS A POTENTIAL FOR FIRES INVOLVING COMBUSTIBLE COOKING MEDIA - DISTANCE TO EXTINGUISHER NOT TO EXCEED 30'-0" OF COOKING EQUIPMENT

LEGEND:

- EGRESS TRAVEL
- (P) DOORS WITH PANIC HARDWARE
- EMERGENCY EXIT LIGHT
- EMERGENCY LIGHT PACK

1 LIFE SAFETY PLAN
LS-1.0 1/4" = 1'-0"

Occupancy Chart

OCCUPANT LOAD - (LSC TABLE 7.3.2.1.)
CONVENIENCE STORE RETAIL - 2015/ 30 = 68
STORAGE - 48/ 300 = 1
GAMES - 94/11 = 9
KITCHEN - 448/ 100 = 5
OFFICE - 71/ 150 = 1
CASHIER - 154/ 30 = 6

TOTAL OCCUPANCY = 90
BUILDING FIRE PROTECTION: NOT SPRINKLED

CODE SUMMARY - MERCANTILE CLASS B; 2018 LIFE SAFETY CODE, 36.1.2.2.1 (2)

TOTAL SQUARE FEET: 4,570 SF
CONSTRUCTION TYPE: VB
OCCUPANCY: MERCHANTILE/RETAIL
OCCUPANT LOAD - (LSC TABLE 7.3.2.1.)
CONVENIENCE STORE RETAIL - 2015/ 30 = 68
STORAGE - 48/ 300 = 1
GAMES - 94/11 = 9
KITCHEN - 448/ 100 = 5
OFFICE - 71/ 150 = 1
CASHIER - 154/ 30 = 6

TOTAL OCCUPANCY = 90
BUILDING FIRE PROTECTION: NOT SPRINKLED

NUMBER OF EXITS: IFC 1006.3.2
1-500: 2 exits required, 2 provided
MAX. TRAVEL DISTANCE: 150' (Non sprinkled) LSC 14.2.6.2
150'-0" MAX ALLOWED (non sprinklered)
MAX. TRAVEL DISTANCE PROVIDED 99'-6"
COMMON PATH OF EGRESS TRAVEL (non sprinkled)
75'-0" MAX ALLOWED
46'-4" MAX PROVIDED

Dead End Limit: 20' Max. (Non sprinkled)

Exit Width: IFC 1005.3.2
.2 X 90= 18"required
3x 35" = 105" provided

REVIEWED FOR CODE COMPLIANCE
These plans have been reviewed under the applicable laws in effect at the time of permitting. Review for compliance with these laws does not relieve the owner or the contractor of these plans shall not be construed to be a permit for, nor an approval of, any violation of any provisions of these laws. Reviewed by: Audrey Kneibert, ICC#12425681, 770-464-7012 ext 8001

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STATE OF GEORGIA
THOMAS E. MORGAN, JR.
REGISTERED ARCHITECT
CERTIFICATE NO.

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Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	08-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

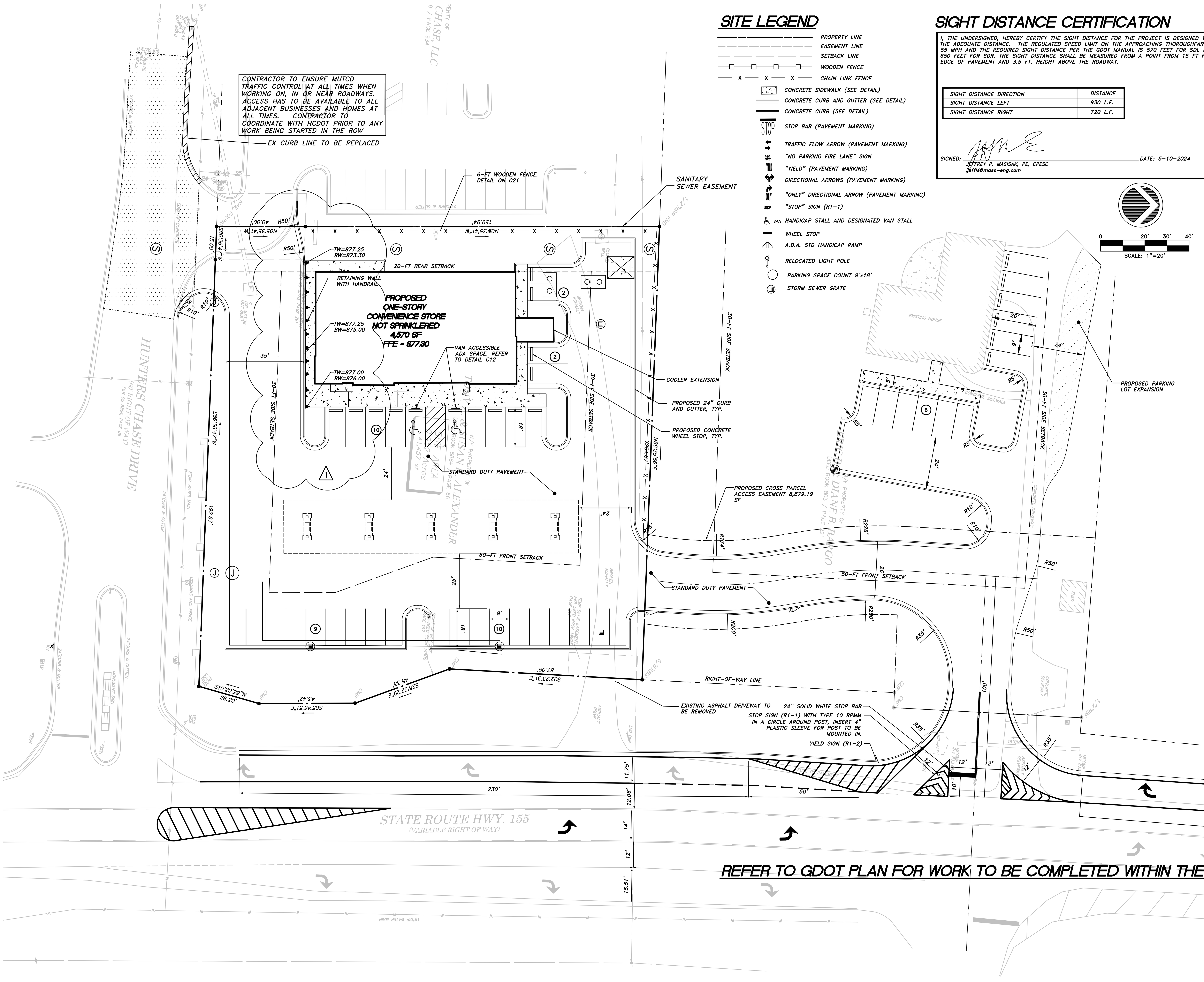
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

LIFE SAFETY PLAN

PROJECT NO: 24022

LS100



SITE LEGEND

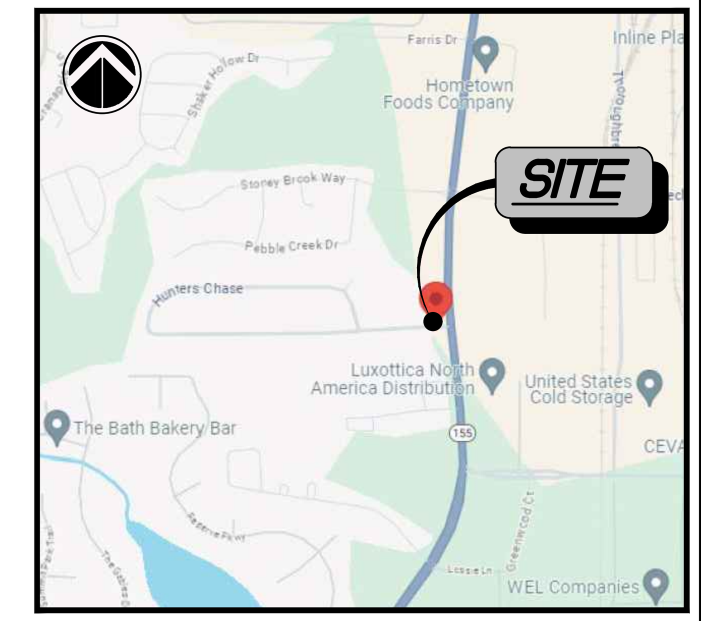
Symbol	Description
	PROPERTY LINE
	EASEMENT LINE
	SETBACK LINE
	WOODEN FENCE
	CHAIN LINK FENCE
	CONCRETE SIDEWALK (SEE DETAIL)
	CONCRETE CURB AND GUTTER (SEE DETAIL)
	CONCRETE CURB (SEE DETAIL)
STOP	STOP BAR (PAVEMENT MARKING)
	TRAFFIC FLOW ARROW (PAVEMENT MARKING)
	"NO PARKING FIRE LANE" SIGN
	"YIELD" (PAVEMENT MARKING)
	DIRECTIONAL ARROWS (PAVEMENT MARKING)
ONLY	"ONLY" DIRECTIONAL ARROW (PAVEMENT MARKING)
	"STOP" SIGN (R1-1)
VAN	HANDICAP STALL AND DESIGNATED VAN STALL
	WHEEL STOP
	A.D.A. STD HANDICAP RAMP
	RELOCATED LIGHT POLE
	PARKING SPACE COUNT 9'x18'
	STORM SEWER GRATE

SIGHT DISTANCE CERTIFICATION

I, THE UNDERSIGNED, HEREBY CERTIFY THE SIGHT DISTANCE FOR THE PROJECT IS DESIGNED WITH THE ADEQUATE DISTANCE. THE REGULATED SPEED LIMIT ON THE APPROACHING THOROUGHFARE IS 55 MPH AND THE REQUIRED SIGHT DISTANCE PER THE GDOT MANUAL IS 570 FEET FOR SDL AND 650 FEET FOR SDR. THE SIGHT DISTANCE SHALL BE MEASURED FROM A POINT FROM 15 FT FROM EDGE OF PAVEMENT AND 3.5 FT. HEIGHT ABOVE THE ROADWAY.

SIGHT DISTANCE DIRECTION	DISTANCE
SIGHT DISTANCE LEFT	930 L.F.
SIGHT DISTANCE RIGHT	720 L.F.

SIGNED: JEFFREY P. MASISAK, PE, CPESC
JeffM@mass-eng.com
DATE: 5-10-2024



VICINITY MAP

N.T.S.

0 20' 30' 40'
SCALE: 1"=20'

SITE NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
2. REFERENCE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS, TRUCK DOCKS, SIDEWALKS, STEPS, TRANSFORMER PADS, ETC.
3. TOPOGRAPHIC BOUNDARY SURVEY, PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY:
   GEOSURVEY
   ATTN: CRAIG JENNINGS
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   DATED: OCTOBER 30, 2023
4. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING.
5. CONCRETE TRUCK DOCKS ARE BY THE BUILDING CONTRACTOR.
6. ALL HANDICAP ACCESSIBLE PARKING SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS AND STATE CODE.
7. ALL TRAFFIC SIGNS SHALL CONFORM TO THE UNIFORM TRAFFIC CONTROL MANUAL AND THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION.
8. ALL STRIPED OR CURBED RADII SHALL BE NOTED ON PLANS.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL OR BETTER THAN EXISTING CONDITIONS.
10. SITE LIGHTING SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK. ALL PARKING LOT LIGHTING POLES, BASES AND FIXTURES WITH LAMPS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR AND SHALL SUPPLY A ONE YEAR WARRANTY CERTIFICATE.
11. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
12. SITE CONTRACTOR SHALL SUPPLY AS-BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS.
13. ANY DEVIATION FROM THESE PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.
14. ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY.
15. ALL CONCRETE SHALL BE 3,000 PSI 28 DAY COMPRESSIVE STRENGTH.
16. PROJECT SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
17. ALL CURB AND GUTTER WITHIN THE DEVELOPMENT SHALL BE 18" AND 24". IT SHALL BE 30" WITHIN THE R.O.W. UNLESS NOTED OTHERWISE.
18. PARKING LOT STRIPING SHALL BE INCLUDED IN PAVING CONTRACTOR'S SCOPE OF WORK. STRIPING WILL BE ACCORDING TO OWNER'S SPECIFICATIONS UNLESS NOTED OTHERWISE. ALL STRIPING IS TO HAVE TWO (2) COATS OF PAINT (MIN).
19. LIGHT POLE BASES SHALL BE PAINTED TRAFFIC YELLOW PER SITE WORK SPECIFICATIONS.
20. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDANCE OF ALL WETLANDS AREAS AS ILLUSTRATED IN THE WETLANDS DELINEATION PACKAGE.
21. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL OFF-SITE EASEMENTS NOT DELINEATED ON PLANS OR KNOWN OF AT TIME OF PLAN ISSUANCE.
22. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WORK AND APPURTENANCE TO WITHIN 5' OF THE BUILDING. THIS INCLUDES TRANSFORMER AND DUMPSTER PADS AS WELL AS ALL UTILITY CONDUITS.

REFER TO GDOT PLAN FOR WORK TO BE COMPLETED WITHIN THE RIGHT-OF-WAY

PROPOSED CONVENIENCE STORE

HUNTERS CHASE ROAD AND SR 155 MCDONOUGH, GA 30253

PREPARED FOR:

0 HUNTERS CHASE LLC

HENRY COUNTY, GEORGIA

PARCEL ID: 095-01013000
LAND LOTS 227, 7TH DISTRICT

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
10-28-24

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST ROAD, SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790 EXT. 901
WWW.MASS-ENG.COM
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MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS	
DATE:	DESCRIPTION
10-28-25	PERMIT SET
	COMMENTS RESPONSES

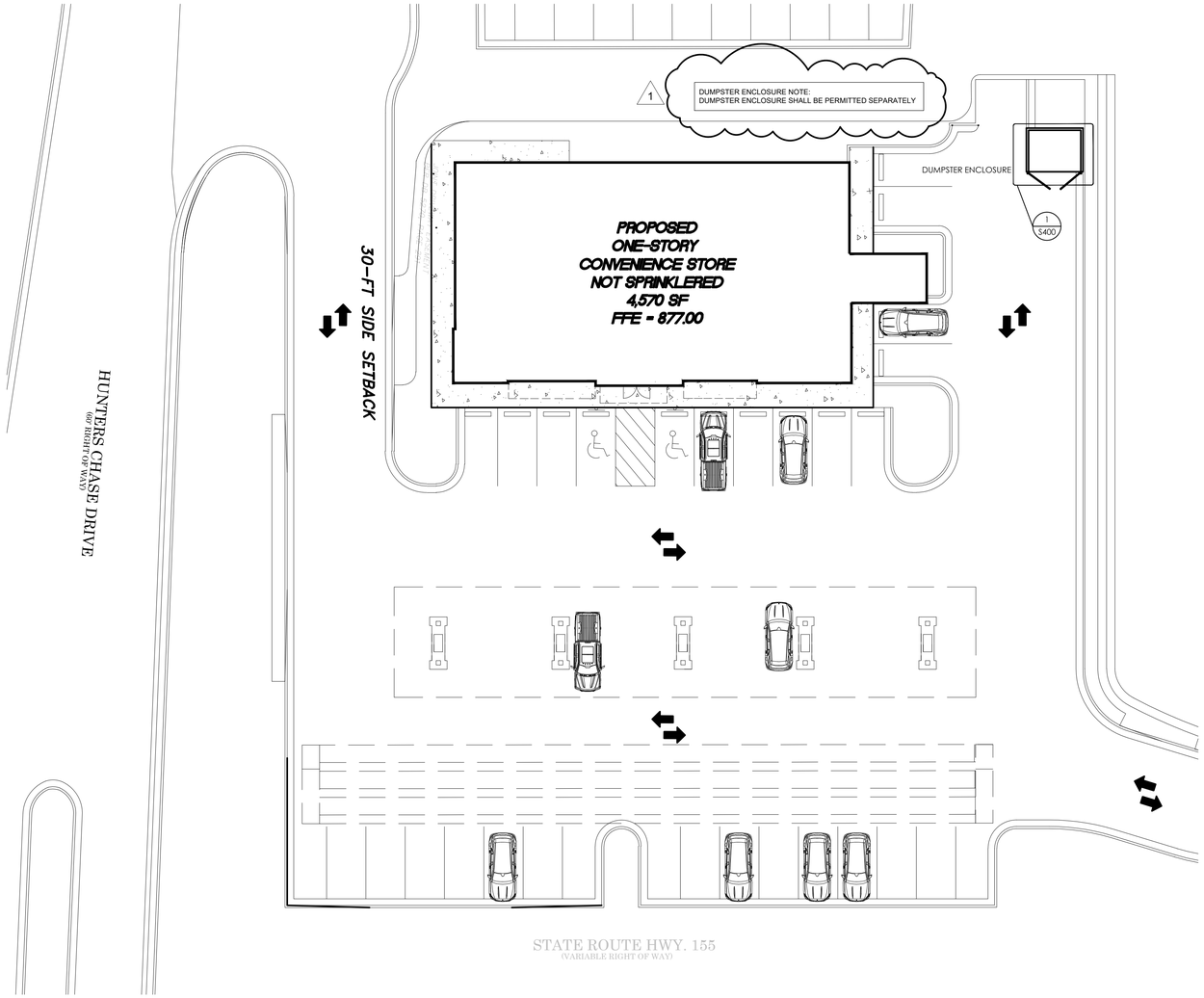
SITE PLAN

PROJECT NUMBER: 23-0113

DATE: AUGUST 10, 2024

C-03

REVIEWED FOR CODE COMPLIANCE
HENRY COUNTY
Ashley Roebuck, ICC#10420485 8:24 am, Nov 12 2025
Plans Examiner Date



N

A1.0 ARCHITECTURAL SITE PLAN

1/16" = 1'-0"

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ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO.
REGISTERED ARCHITECT

M R P
DESIGN GROUP

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Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	05-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DS

CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

ARCHITECTURAL SITE PLAN

PROJECT NO: 24022

A0.1

REVIEWED FOR CODE COMPLIANCE
These plans have been reviewed under the applicable laws in effect at the time of permitting and are approved for construction. Henry County Fire Marshal's Office is not responsible for any errors which may be contained in the submitted plans that do not apparently affect life safety. Approval of these plans does not relieve the owner or contractor of responsibility for compliance with all applicable laws, codes, ordinances and regulations.
Building Standards, IFC/IECC/NFPA/NEC, 2018 with Ga. Amd. 23 NEC 2020 Edition

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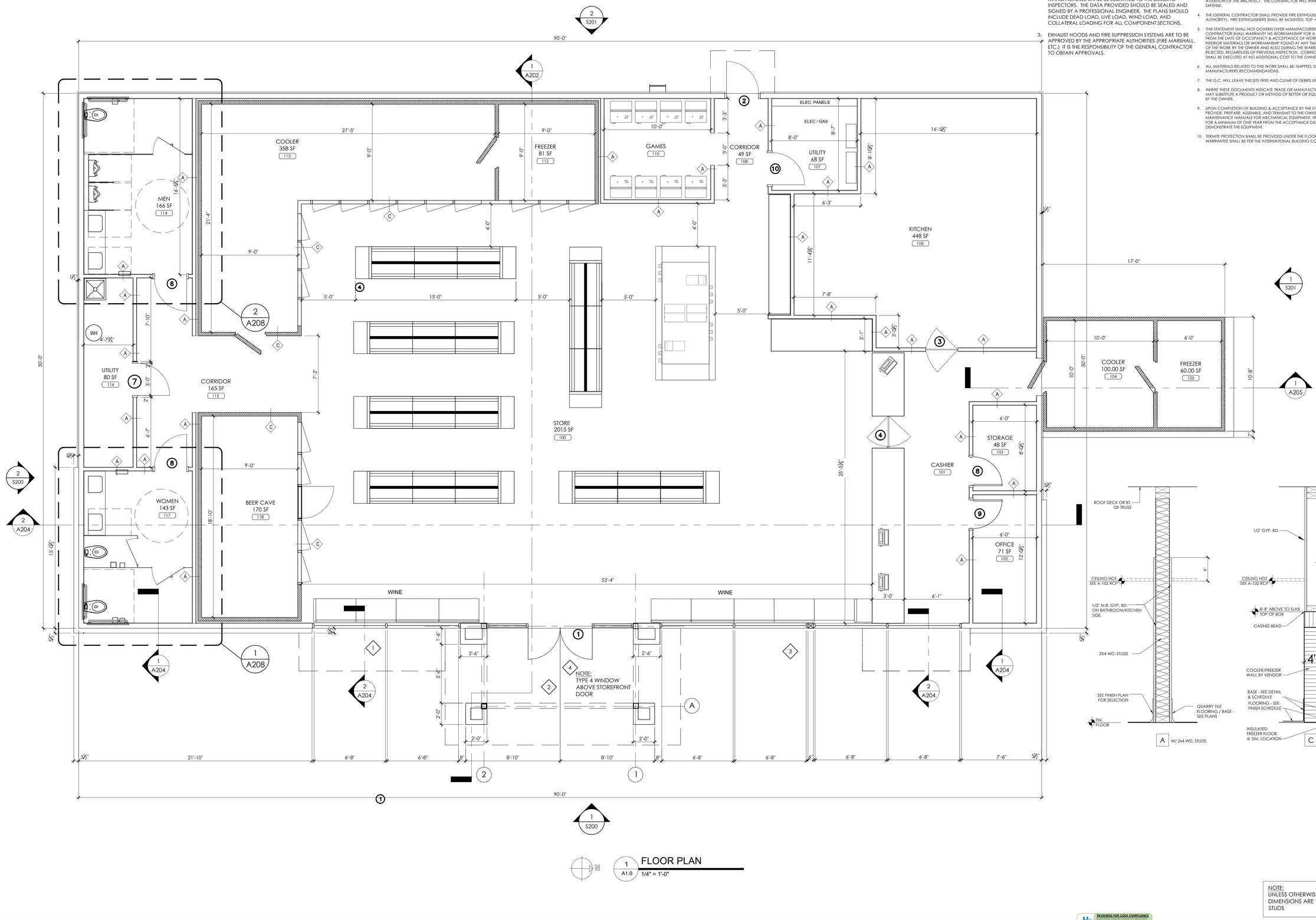
MUNICIPAL REQUIREMENTS

1. THE GENERAL CONTRACTOR SHALL SUBMIT TO BUILDING INSPECTIONS, SOIL COMPACTION DATA PRIOR TO THE PLACEMENT OF CONCRETE.
2. PLANS AND DESIGN CRITERIA FROM THE ROOF TRUSS MANUFACTURER SHALL BE SUBMITTED TO THE BUILDING INSPECTORS. THE DATA PROVIDED SHOULD BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER. THE PLANS SHOULD INCLUDE DEAD LOAD, LIVE LOAD, WIND LOAD, AND COLLATERAL LOADING FOR ALL COMPONENT SECTIONS.
3. EXHAUST HOODS AND FIRE SUPPRESSION SYSTEMS ARE TO BE APPROVED BY THE APPROPRIATE AUTHORITIES (FIRE MARSHALL, ETC.) IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN APPROVALS.

GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO BUILD PER ALL APPLICABLE CODES AND REGULATIONS: FEDERAL, STATE, AND LOCAL.
2. ALL SUBCONTRACTORS INCLUDING MECHANICAL, PLUMBING, AND ELECTRICAL SHALL BE RESPONSIBLE FOR SECURING PERMITS FOR THEIR WORK & TRADE UTILITY. FURTHER DRAWINGS (IF REQUIRED) FOR PERMITS AND UTILITY HOOK- UPS SHALL ALSO BE BY THE SUBCONTRACTOR.
3. ANY DISCREPANCIES WITHIN THESE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR WILL MAKE ASSUMPTIONS AT HIS OWN EXPENSE.
4. THE GENERAL CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS PER NFPA 10 (OR LOCAL AUTHORITY). FIRE EXTINGUISHERS SHALL BE MOUNTED, TOP = 48" AFF.
5. THIS STATEMENT SHALL NOT GOVERN OVER MANUFACTURERS' WARRANTIES. THE GENERAL CONTRACTOR SHALL WARRANTY HIS WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF OCCUPANCY & ACCEPTANCE OF WORK BY THE OWNER. DEFECTIVE OR INFERIOR MATERIALS OR WORKMANSHIP FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND ALSO DURING THE WARRANTEE PERIOD MAY BE REJECTED, REGARDLESS OF PREVIOUS INSPECTION. CORRECTIVE MEASURES WHEN REQUIRED SHALL BE EXECUTED AT NO ADDITIONAL COST TO THE OWNER.
6. ALL MATERIALS RELATED TO THIS WORK SHALL BE: SHIPPED, STORED AND INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.
7. THE G.C. WILL LEAVE THIS SITE FREE AND CLEAR OF DEBRIS UPON COMPLETION OF THE WORK.
8. WHERE THESE DOCUMENTS INDICATE TRADE OR MANUFACTURER NAMES, THE CONTRACTOR MAY SUBSTITUTE A PRODUCT OR METHOD OF BETTER OR EQUAL QUALITY UPON APPROVAL BY THE OWNER.
9. UPON COMPLETION OF BUILDING & ACCEPTANCE BY THE OWNER THE CONTRACTOR SHALL PROVIDE, PREPARE, ASSEMBLE, AND TRANSMIT TO THE OWNER THE FOLLOWING: MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT, WARRANTIES FOR ALL EQUIPMENT FOR A MINIMUM OF ONE YEAR FROM THE ACCEPTANCE DATE, KEYS WITH SCHEDULE AND DEMONSTRATE THE EQUIPMENT.
10. TERMITE PROTECTION SHALL BE PROVIDED UNDER THE FLOOR SLAB. INSTALLATION AND WARRANTEE SHALL BE PER THE INTERNATIONAL BUILDING CODE.



1 A1.0 FLOOR PLAN
1/4" = 1'-0"

NOTE:
UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO FACE OF STUDS

REVIEWED FOR CODE COMPLIANCE
Review letter has been delivered under the applicable laws in effect at the time of submittal. Review does not relieve applicant of responsibility for complying with all remaining [illegible] which will be enforced in the same way for any applicant. It is the responsibility of the applicant to verify all dimensions and conditions.
Ashley Kimbrell, ICC#12425681, 770-464-7611 ext. 3003
03/13/2025

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

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Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

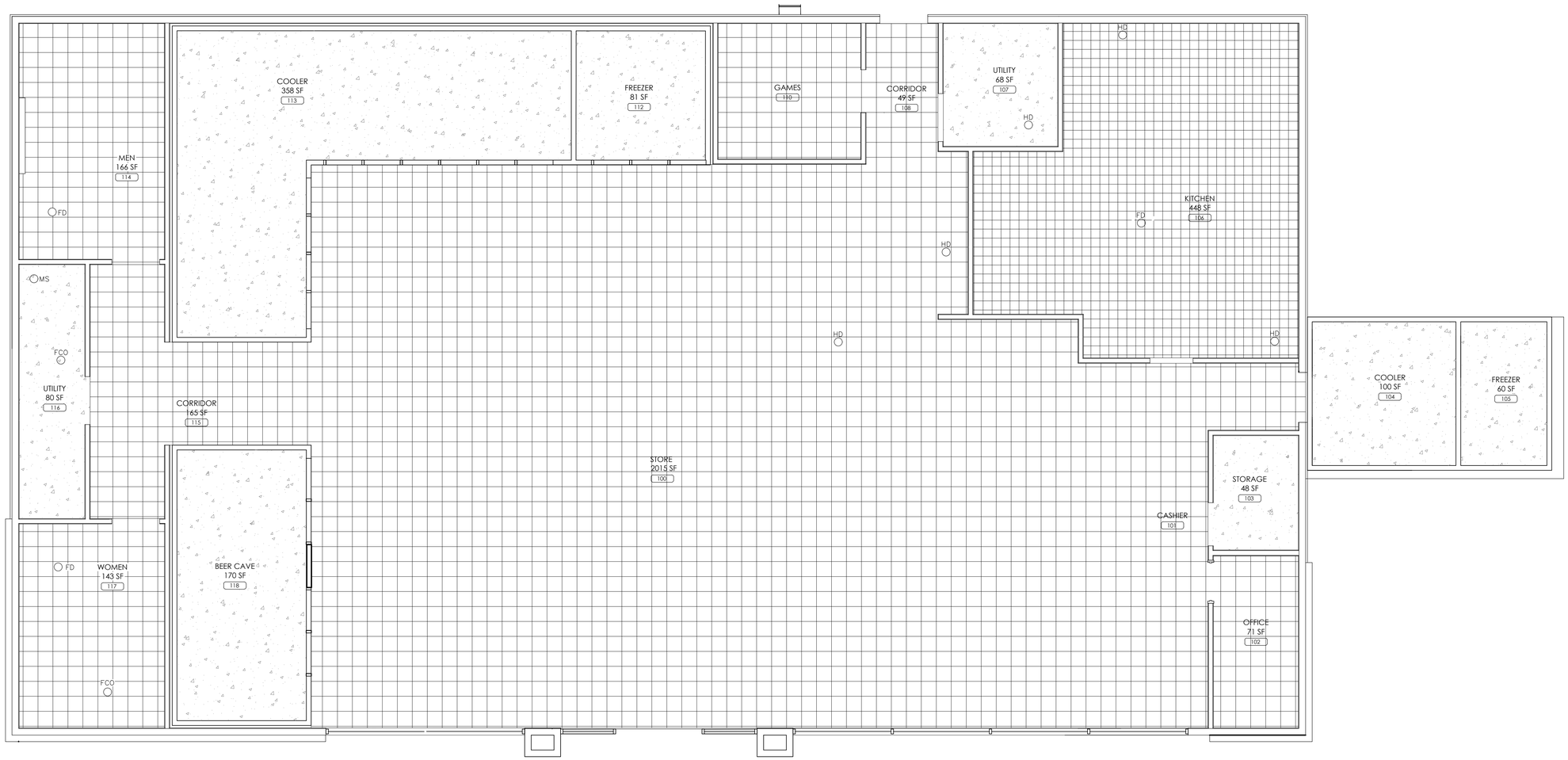
PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
FLOOR PLAN

PROJECT NO: 24022

A100



1 A101 FLOOR FINISH PLAN
1/4" = 1'-0"

LEGEND

CT-1 QUARRY TILE

CONC. - SEALED CONCRETE

FD - FLOOR DRAIN
FS - FLOOR SINK

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ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO. 026746
REGISTERED ARCHITECT

MRP DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
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F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

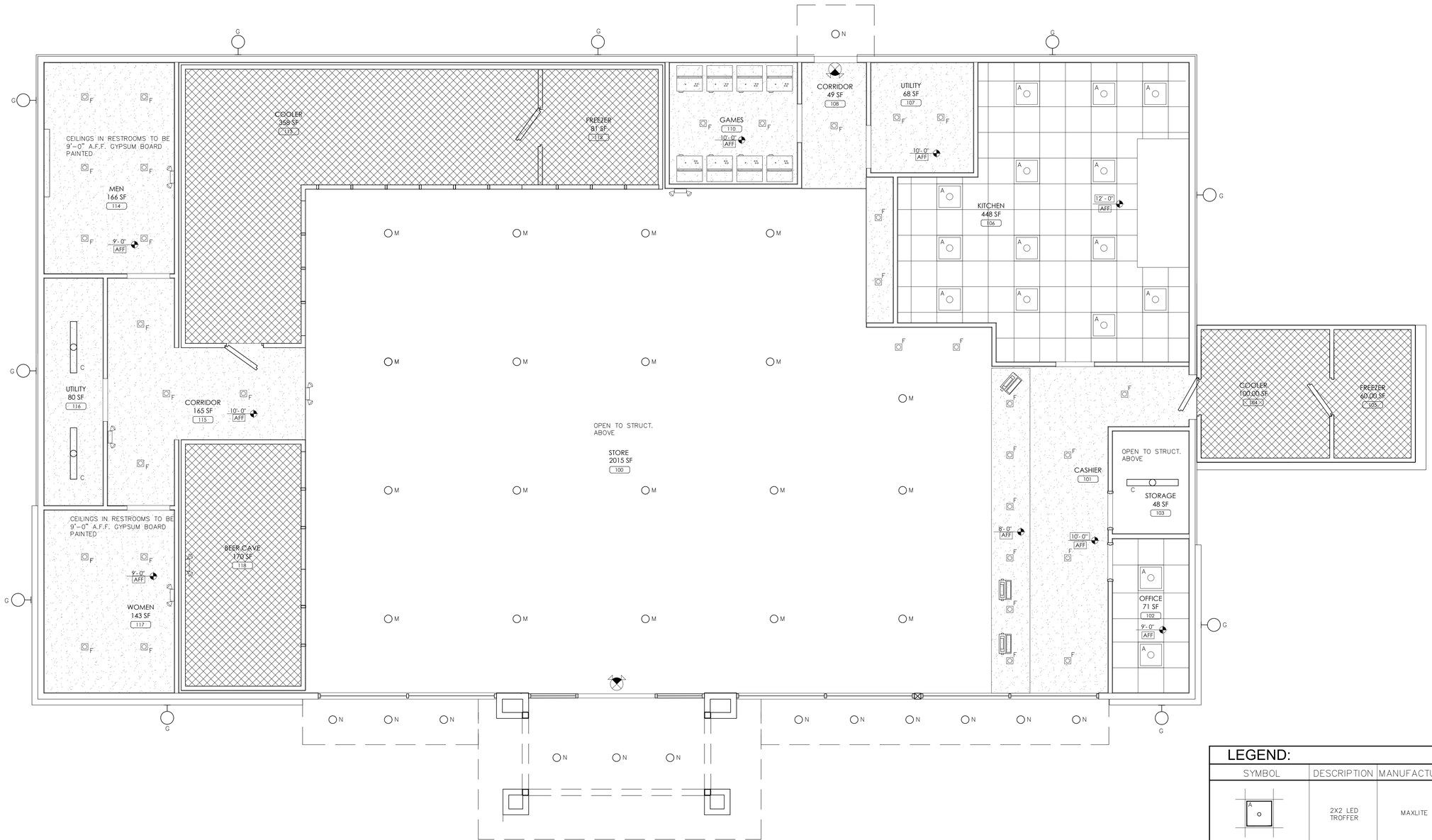
SHEET TITLE:

FLOOR FIN. PLAN

PROJECT NO: 24022

A101

REVIEWED FOR CODE COMPLIANCE
Henry County Building Department
Reviewed for code compliance only. Approval of this plan does not relieve the owner, contractor or engineer of record of responsibility for any violation of the codes. Approval does not warrant that the plans are free from all engineering errors or omissions. Approval does not authorize any violation of the codes.
Building Department, 3D Permit Number
Date Approved



1 A102 REFLECTED CEILING PLAN
1/4" = 1'-0"

LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL
A	2X2 LED TROFFER	MAXLITE	SEE E000 FOR MODEL SELECTION
C	4" UTILITY STRIP	MAXLITE	
F	4" LED DOWNLIGHT	LSI	
	EXIT SIGN	LSI	
	EMERGENCY LIGHT PACK	LSI	
M	LED PENDANT	CREE	
G	LED WALLPACK	LSI	
N	LED SOFFIT LIGHT	LSI	

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REVIEWED FOR CODE COMPLIANCE
Cobb County
Ashley Rashad, ICC#10426881

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO.
REGISTERED ARCHITECT

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3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

REFLECTED CEILING PLAN

PROJECT NO: 24022

A102

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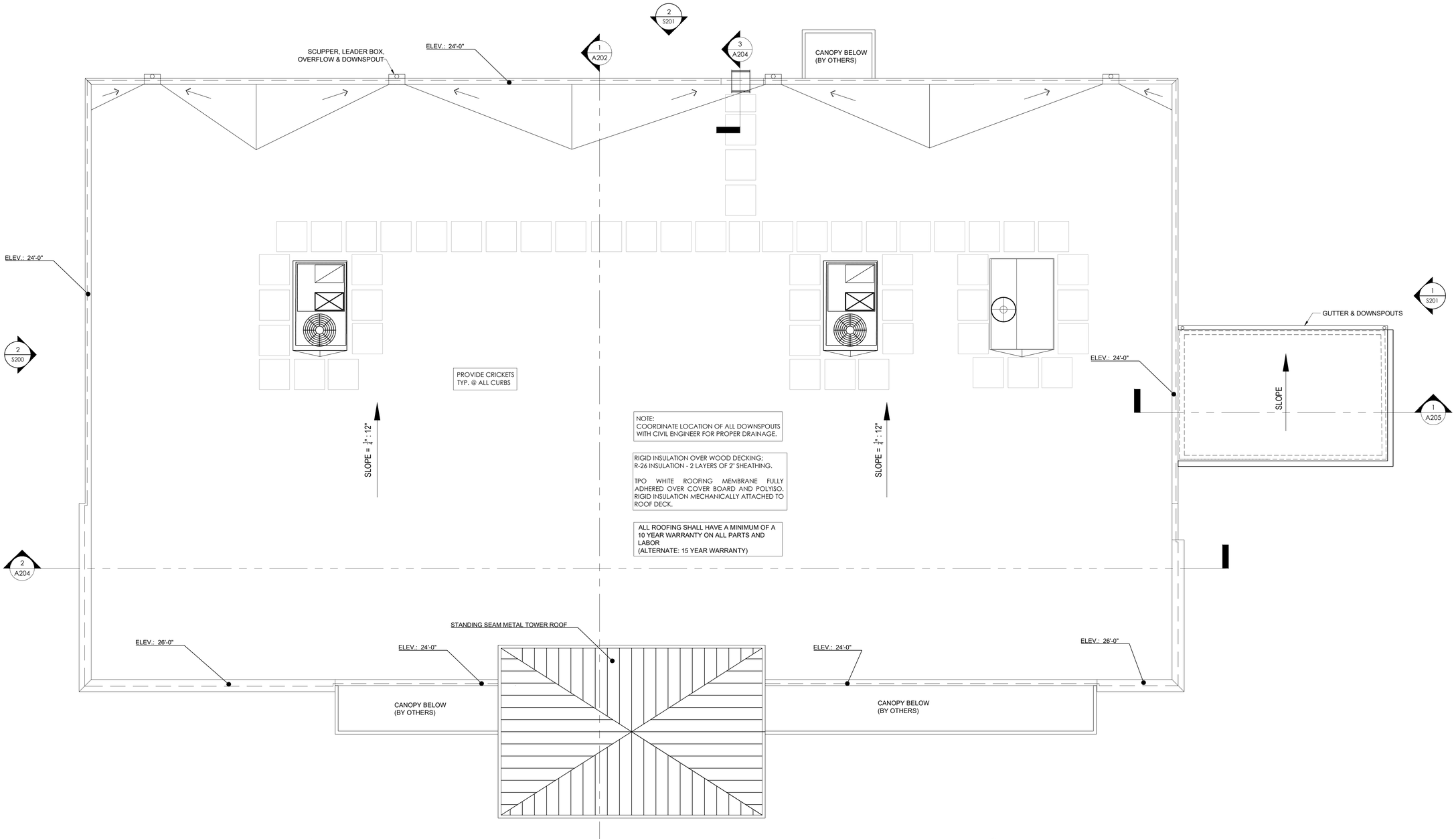
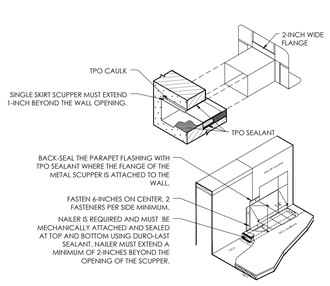
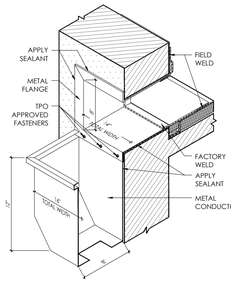


N

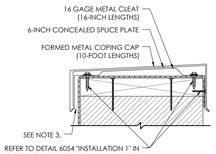
1 A103 ROOF PLAN
1/4" = 1'-0"

1 S200





NOTES:
1. APPLY A BEAD OF SEALANT OR MASTIC BETWEEN THE COLLECTOR HEAD AND THE WALL.
2. BACKSEAL AND FASTEN TOP FLANGE OF COLLECTOR 6-INCHES ON CENTER.
3. SEE DETAIL 2060 IN THE SMACNA SHEET METAL MANUAL FOR INTERIOR WALL TERMINATION
4. IN LIEU OF "CLIP" STYLE CONNECTIONS, AN OVERLAP OF 2-INCHES IS REQUIRED (MANUFACTURED) BETWEEN SECTIONS.
5. A WOOD NAILER IS REQUIRED IF ONE OR MORE INCHES OF INSULATION IS USED. TOP OF WOOD NAILER TO BE FLUSH WITH TOP OF INSULATION. THE FASTENERS USED TO ATTACH THE BASE TO WOOD NAILERS MUST BE SPACED NO GREATER THAN 6-INCHES ON CENTER. INCREASE DENSITY TO SAFETY FACTOR OF (2) AT ROOF CORNERS (FOR EXAMPLE: IF 6-INCHES O.C., CORNER DENSITY WOULD BE 3 INCHES). BE SURE THAT THE WOOD NAILER EXTENDS AT LEAST 1/2-INCH MIN. BEYOND THE HORIZONTAL DIMENSION OF THE SNAP-ON BASE.
6. ALLOW FOR 1/8-INCH GAP AT THE BASE BETWEEN 10'-0" LENGTHS.



NOTES:
1. ALL COPING CAP JOINTS MUST UTILIZE A 6-INCH CONCEALED SPLICE PLATE.
2. ALL JOINTS ARE TO BE SEALED WITH AN APPROVED TPO SEALANT ON TOP OF THE SPLICE PLATE, ON BOTH SIDES OF THE JOINT. ALLOW A 1/4-INCH GAP BETWEEN COPING SECTIONS.
3. ON THE INSIDE EDGE OF THE COPING CAP BASE CLEAT, LEAVE A 3/8-INCH GAP BETWEEN THE CLEAT AND THE WALL TO ALLOW THE COPING CAP TO SNAP INTO PLACE.
4. ALL FASTENERS MUST PENETRATE INTO THE WOOD NAILER A MINIMUM OF 1 1/2-INCHES.

2 A103 DETAILS
N.T.S.

REVIEWED FOR CODE COMPLIANCE
This plan sheet has been reviewed under the applicable state & effective at the time of permitting codes and local amendments. Approval of this plan sheet does not relieve the owner or contractor from any responsibility for compliance with the applicable codes, nor does it grant authorization for any deviations, variances or omissions.
Building Official: ICC#12423681 Date: 09-Dec-25

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

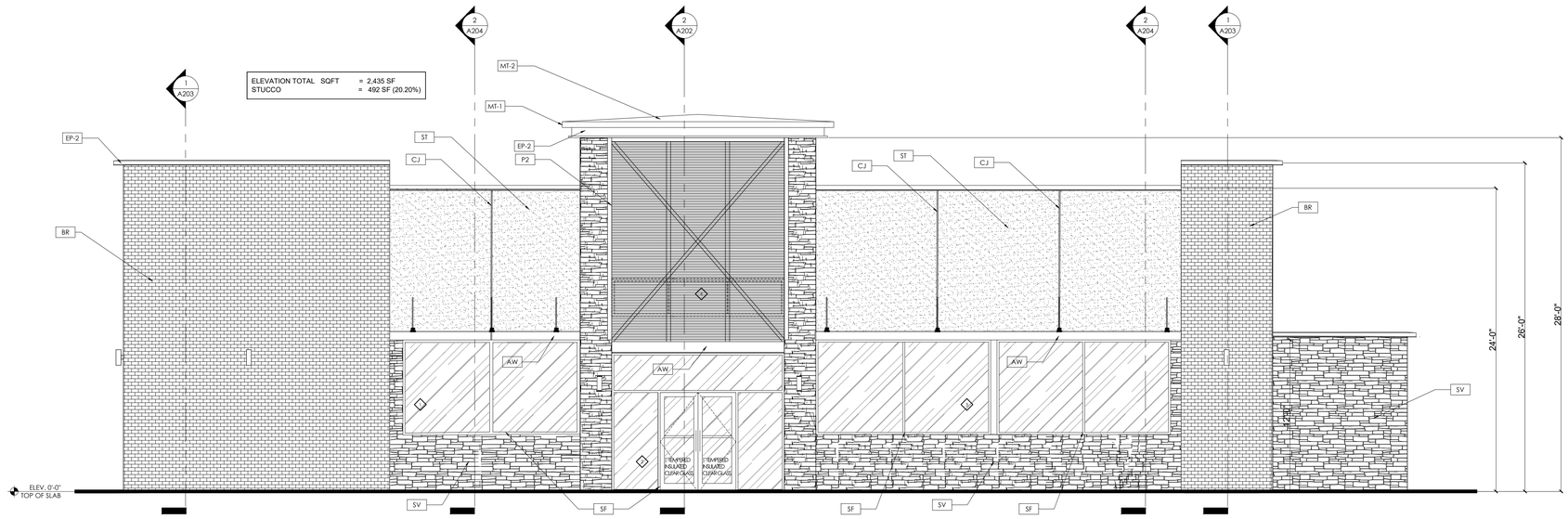
PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

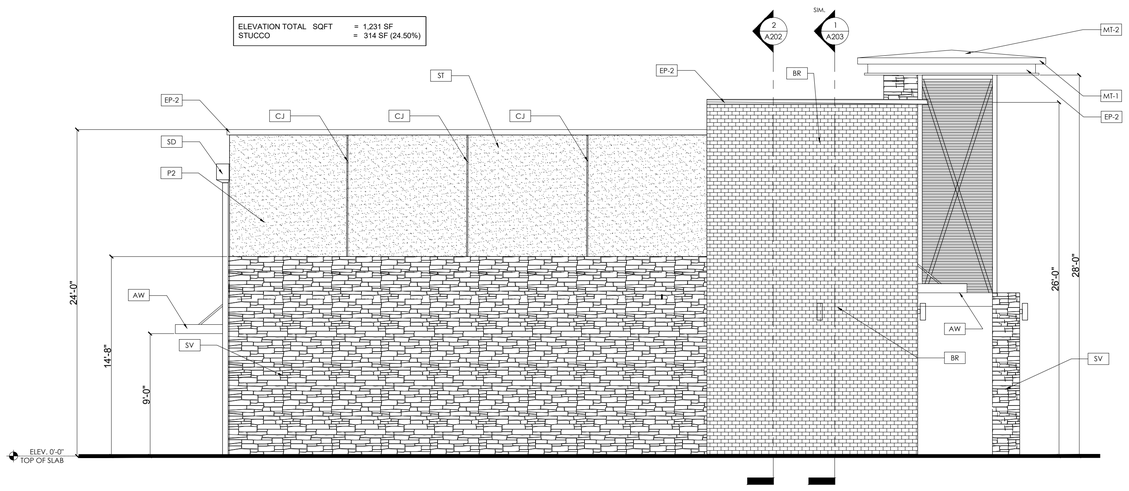
SHEET TITLE:
ROOF PLAN

PROJECT NO: 24022

A103



1 A200 **FRONT ELEVATION**
3/16" = 1'-0"



2 A200 **LEFT ELEVATION**
3/16" = 1'-0"

EXTERIOR FINISH SCHEDULE

P-1	PAINT COLOR, HOLLOW METAL DOORS AND FRAMES SHERWIN WILLIAMS SW 7642 PAVESTONE
P-2	PAINT COLOR, EIFS SHERWIN WILLIAMS SW 7641 COLONNADE GRAY
P-3	PAINT COLOR, TRIM COLOR: SHERWIN WILLIAMS 7626 ZURICH WHITE
ST	STUCCO COLOR: SHERWIN WILLIAMS SW 7641 COLONNADE GRAY (P-2) TEXTURE: DRIVIT "LIMESTONE" DPR TEXTURED FINISH
EP-2	DRAINABLE EIFS CORNICE COLOR: SHERWIN WILLIAMS 7626 ZURICH WHITE (P-3) TEXTURE: DRIVIT "LIMESTONE" DPR TEXTURED FINISH
BR	BRICK
SV	THIN SET STONE VENEER LEDGESTONE FINISH
MT-1	PRE-FINISHED METAL COPING, GUTTER & DOWNSPOUTS (GALVANIZED OR ALUMINUM) P-3
MT-2	PRE-FINISHED METAL STANDING SEAM ROOFING, (GALVANIZED OR ALUMINUM) P-3
SF	ALUMINUM STOREFRONT SYSTEM TRIFAB VERSAGLAZE 451 POWDER COAT. COLOR: DARK BRONZE
AW	AWNING/ ALUMINUM CANOPY COLOR: DARK BRONZE
CJ	STUCCO V-REVEAL 3/4" CONTROL JOINT
SD	PRE-FIN. ALUM.SECONDARY THRU-WALL SCUPPER. COLOR T.B.D.

GENERAL NOTES

1. PAINT ALL EXPOSED METERS, SERVICE ENTRANCES, GAS PIPE, ROOF ACCESS LADDER, ETC. TO MATCH ADJACENT EXTERIOR WALL SURFACE.
2. PROVIDE TEMPORARY MASKING OF EXPOSED STAINLESS STEEL DURING ACID WASHING OF MASONRY.
3. PROVIDE SOLID MASONRY UNITS AT THE ENDS OF JAMBS , SILLS, ETC.
4. TO HELP PREVENT EFFLORESCENCE ALL MASONRY UNITS ARE TO BE MANUFACTURED WITH INTEGRAL WATER REPELLANT. WATER REPELLENT ADMIXTURE IS TO BE MIXED IN AND PRE-WASHED SAND IS TO BE USED IN ALL MORTAR MIXES.
5. MAKE SURE THAT WALL WEEPS AND FLASHING ARE INSTALLED CORRECTLY. DO NOT BLOCK WEEPS.
6. REFER TO SHEET A8.2 FOR TEMPERED GLASS LOCATIONS.
7. ALUMINUM STOREFRONT TO BE DARK BRONZE.
8. ALL GLAZING TO BE 1" INSULATED GLAZING.
9. BASIS OF DESIGN FOR THE EIFS WALL SYSTEM IS DRYVIT OUTSULATION PLUS MD. EIFS WALL SYSTEM IS 2" THICK UNLESS NOTED OTHERWISE. INSTALL EIFS PRODUCT IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS.
10. SIGNAGE IS SHOWN FOR REFERENCE ONLY. FINAL SIZE, LOCATION AND QUANTITY TO BE DETERMINED BY SIGNAGE VENDOR. SIGNAGE VENDER SHALL PERMIT ALL SIGNS UNDER SEPARATE COVER.
11. REFER TO ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING SPECIFICATIONS.
12. ALL WALL MOUNTED LIGHT FIXTURES TO BE SET IN CONTINUOUS BED OF CAULK AND THEN SHALL BE SEALED TO WALL WITH SEPARATE BEAS OF CAULK. CAULK TO MATCH ADJACENT SURFACE.
13. PAINT EFIS WALL BEHIND ACCENT BAND RED. EXPOSED EIFS EDGE BELOW ACCENT BAND TO MATCH METAL.

REVIEWED FOR CODE COMPLIANCE
Approved: Plan review of these plans and specifications covers only those items directly related to compliance with the adopted codes and ordinances of the jurisdiction. Review does not include design of any fire protection system, fire alarm system, or any other system requiring a separate permit. Approval of any system or component does not authorize the installation of that system or component until plans and specifications have been submitted and approved.
Ashley Roebuck, ACP,CFM,CSM1 Date: Nov 10 2025
Plan Review Team

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ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540
SEAL:
STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO.
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www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	08-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
EXTERIOR ELEVATIONS

PROJECT NO: 24022

A200 1

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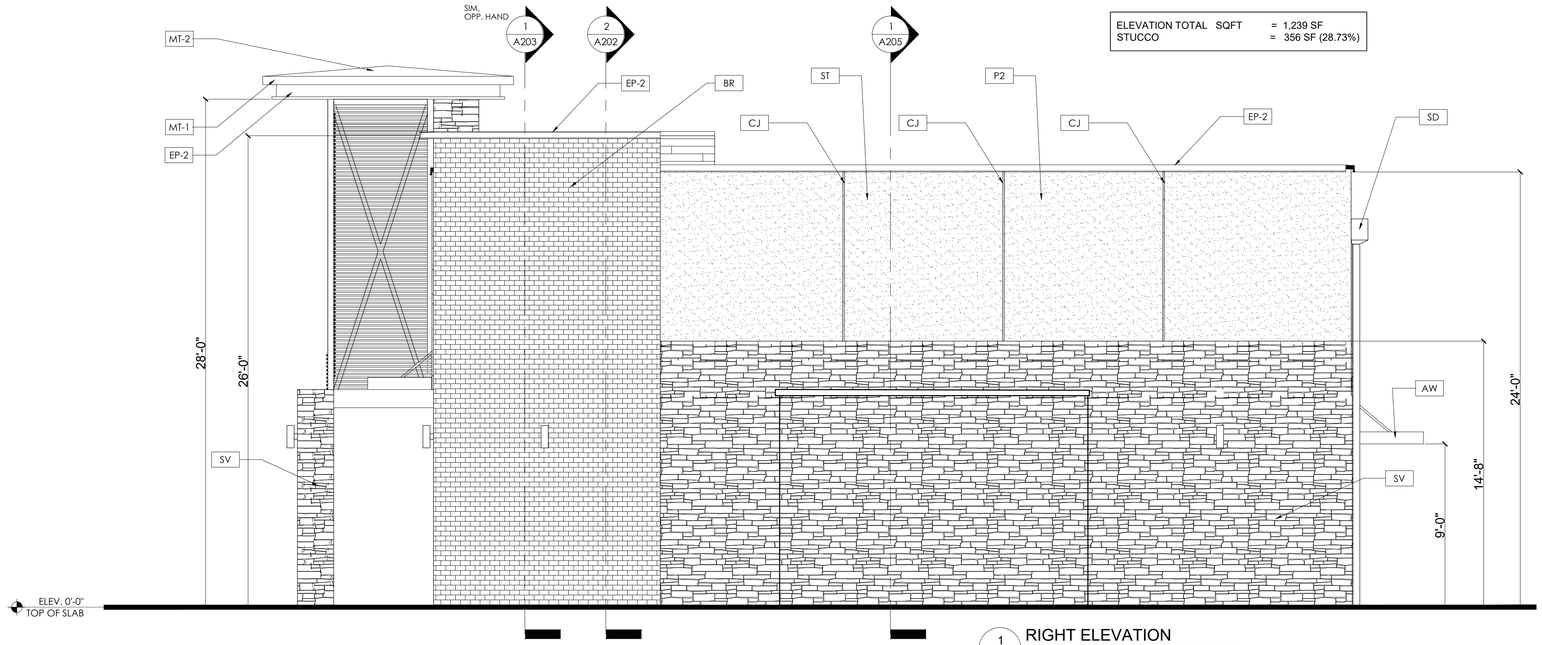
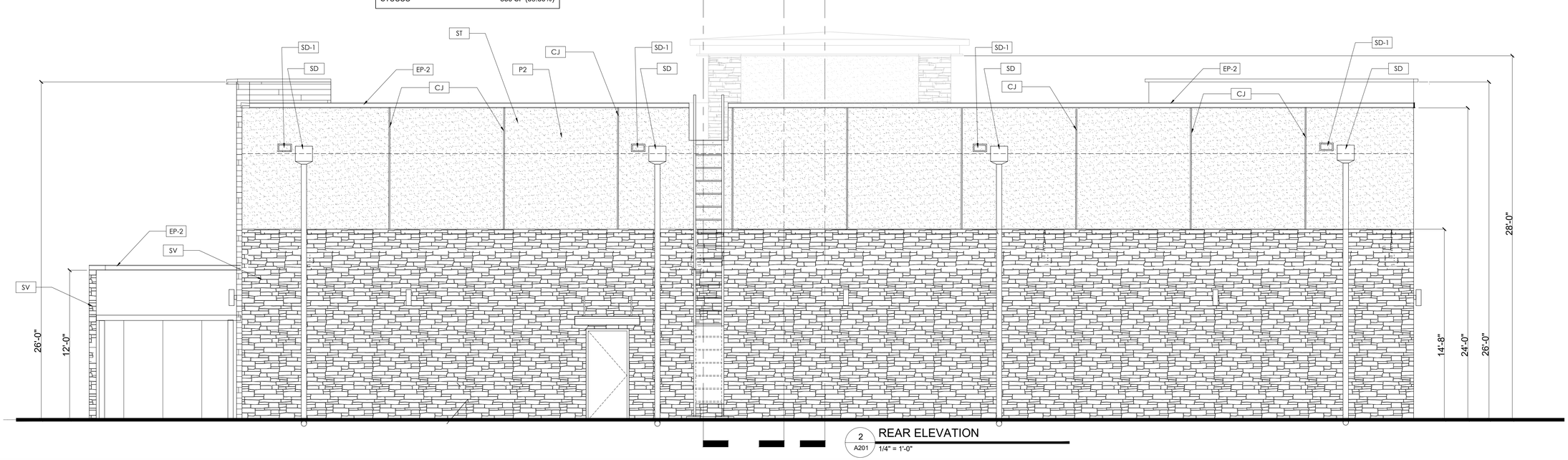


ELEVATION TOTAL SQFT = 1,239 SF
STUCCO = 356 SF (28.73%)

1 A201 **RIGHT ELEVATION**
1/4" = 1'-0"



ELEVATION TOTAL SQFT = 2,178 SF
STUCCO = 856 SF (39.30%)

2 A201 **REAR ELEVATION**
1/4" = 1'-0"

EXTERIOR FINISH SCHEDULE

P-1	PAINT COLOR, HOLLOW METAL DOORS AND FRAMES SHERWIN WILLIAMS SW 7642 PAVESTONE
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SD	PRE-FIN. ALUM.SECONDARY THRU-WALL SCUPPER. COLOR T.B.D.

GENERAL NOTES

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13. PAINT EFIS WALL BEHIND ACCENT BAND RED. EXPOSED EIFS EDGE BELOW ACCENT BAND TO MATCH METAL.

REVIEWED FOR CODE COMPLIANCE
This plan has been reviewed under the applicable law in effect at the time of application and found to be in compliance with the Henry County Code and Ordinances. Approval of these plans shall not be construed to be a permit for, or an approval of, any violation of any provision of these codes or ordinances. Approved by: Building Products. ICC#5162403. 2018 Int. Res. Cd. 2021 Int. Res. Cd.

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ARCHITECT OF RECORD:

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ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STATE OF GEORGIA
THOMAS E. MORGAN, JR.
CERTIFICATE NO.
REGISTERED ARCHITECT

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	08-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

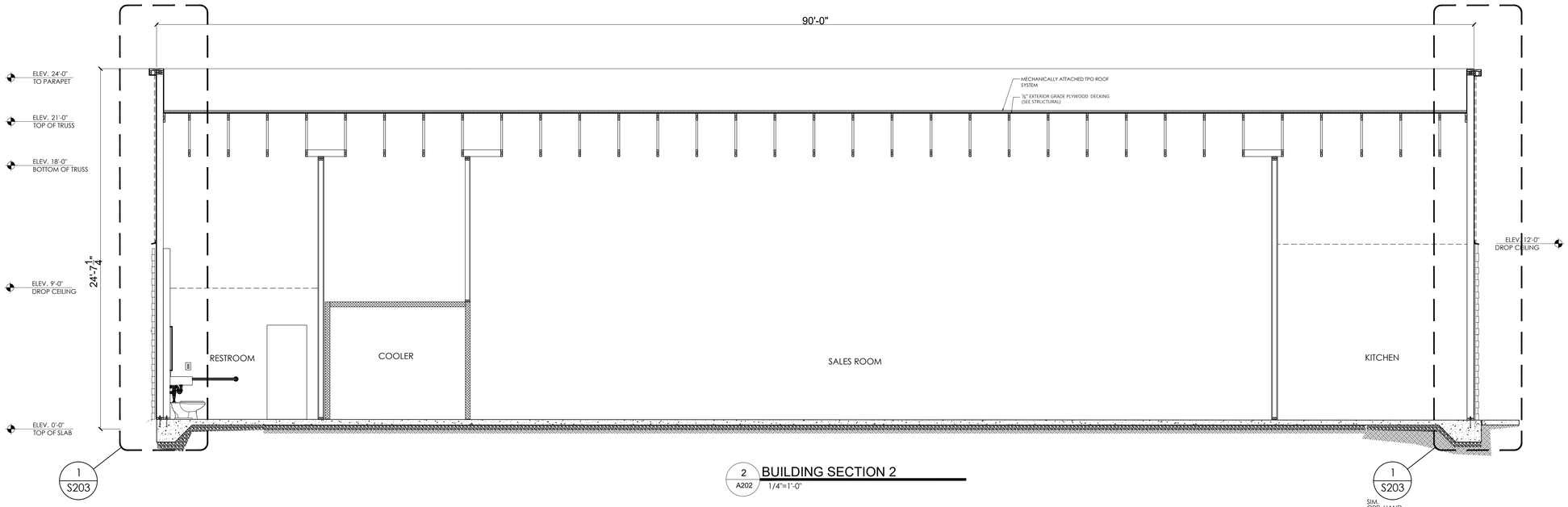
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

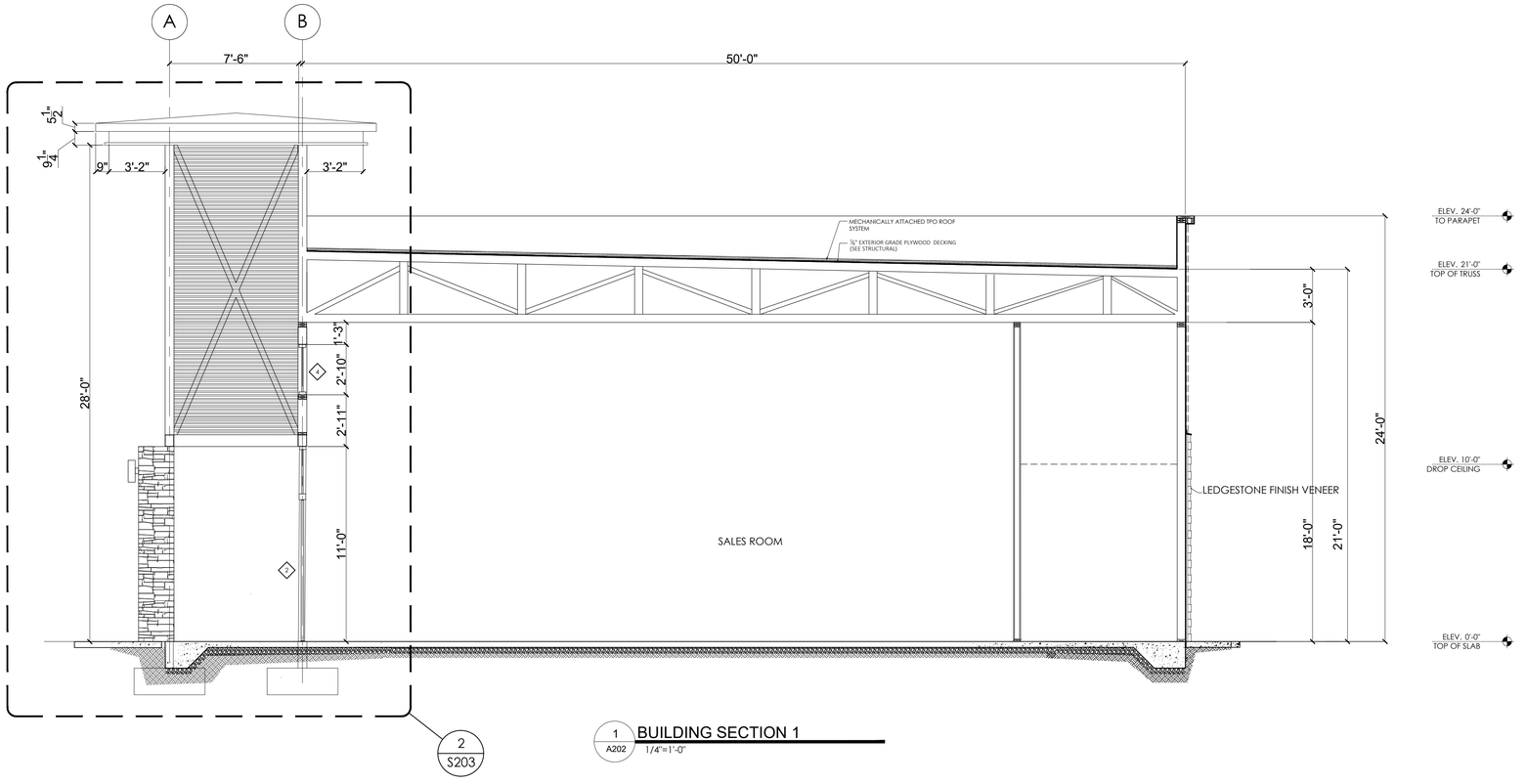
EXTERIOR ELEVATIONS

PROJECT NO: 24022

A201 1



2 A202 BUILDING SECTION 2
1/4"=1'-0"



1 A202 BUILDING SECTION 1
1/4"=1'-0"

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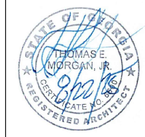
ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:



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Kennesaw, Georgia 30144
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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

CROSS SECTIONS

PROJECT NO: 24022

A202

REVIEWED FOR CODE COMPLIANCE

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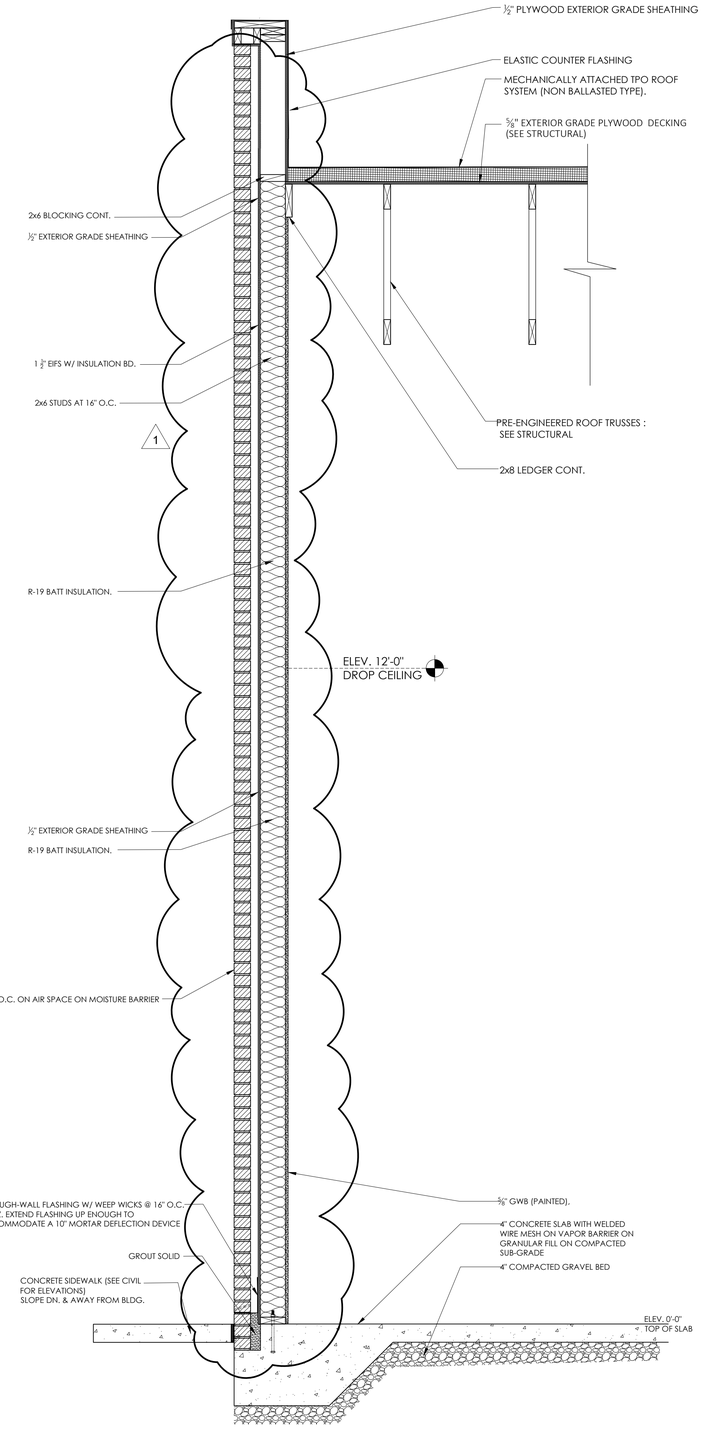
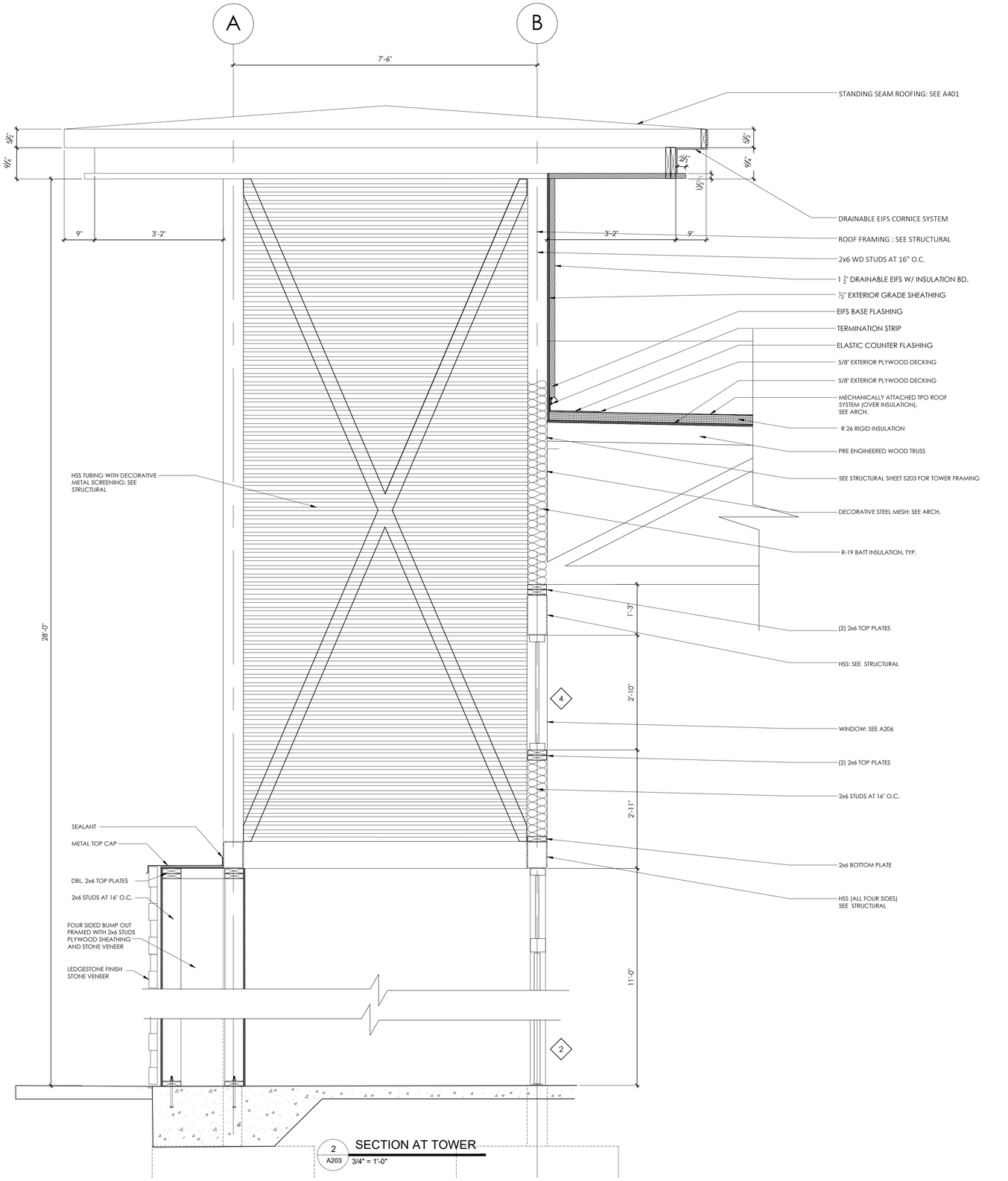


1 / A203 SIDE WALL SECTION
3/4" = 1'-0"



2 / A203 SECTION AT TOWER
3/4" = 1'-0"

ARCHITECT OF RECORD:

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ARCHITECT

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Kennesaw, Georgia 30144
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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	05-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DR
REVISED ELEVATOR SHAFT
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

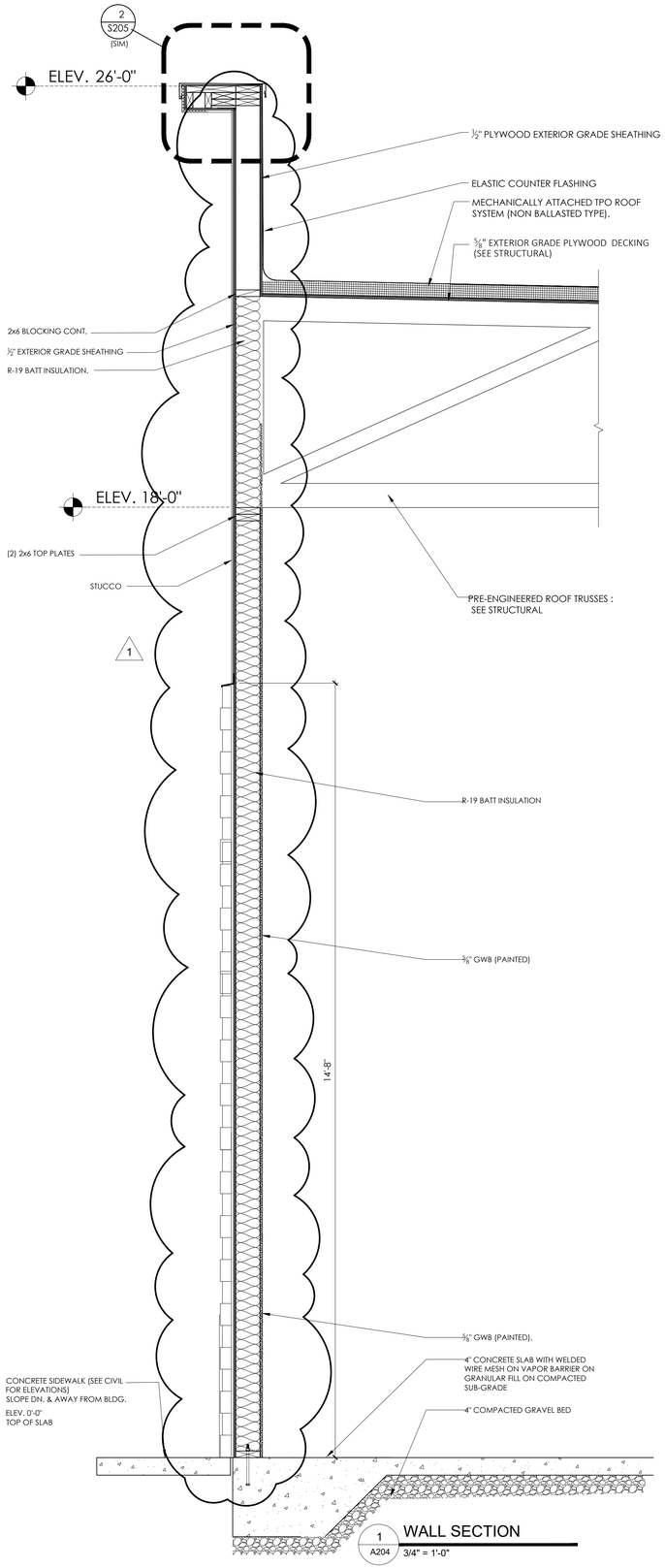
SHEET TITLE:

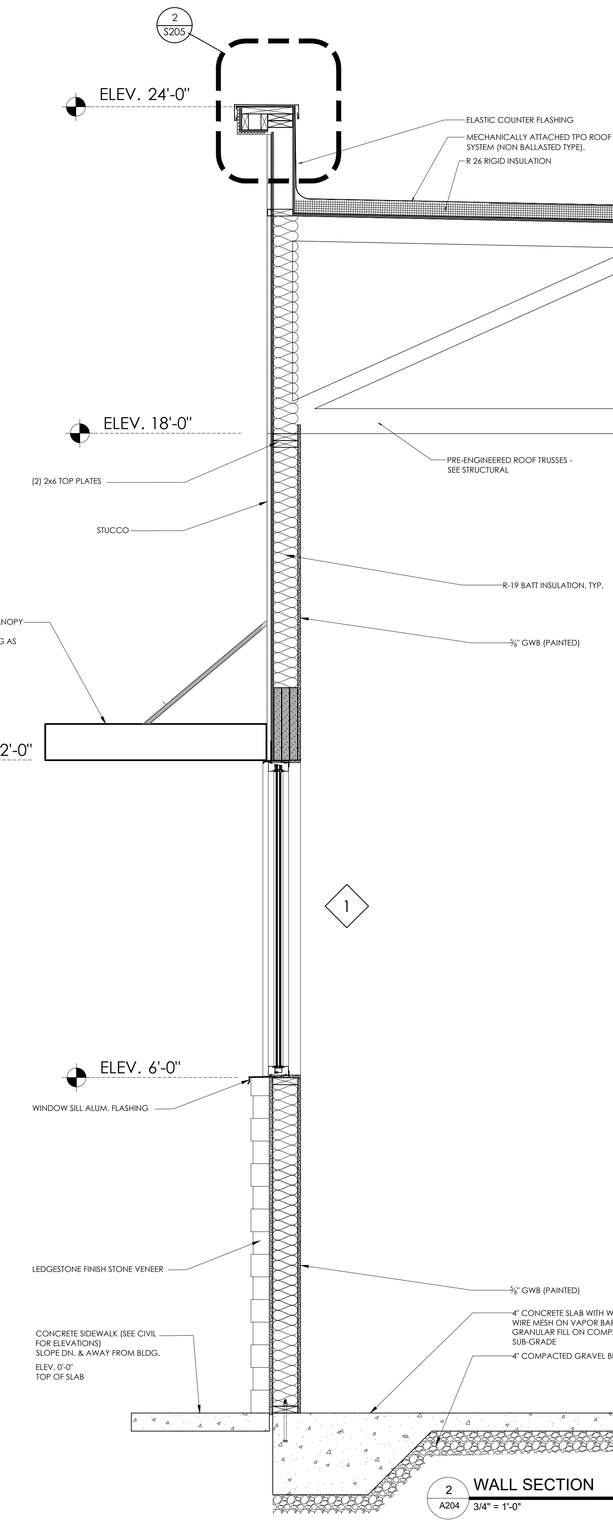
WALL SECTIONS

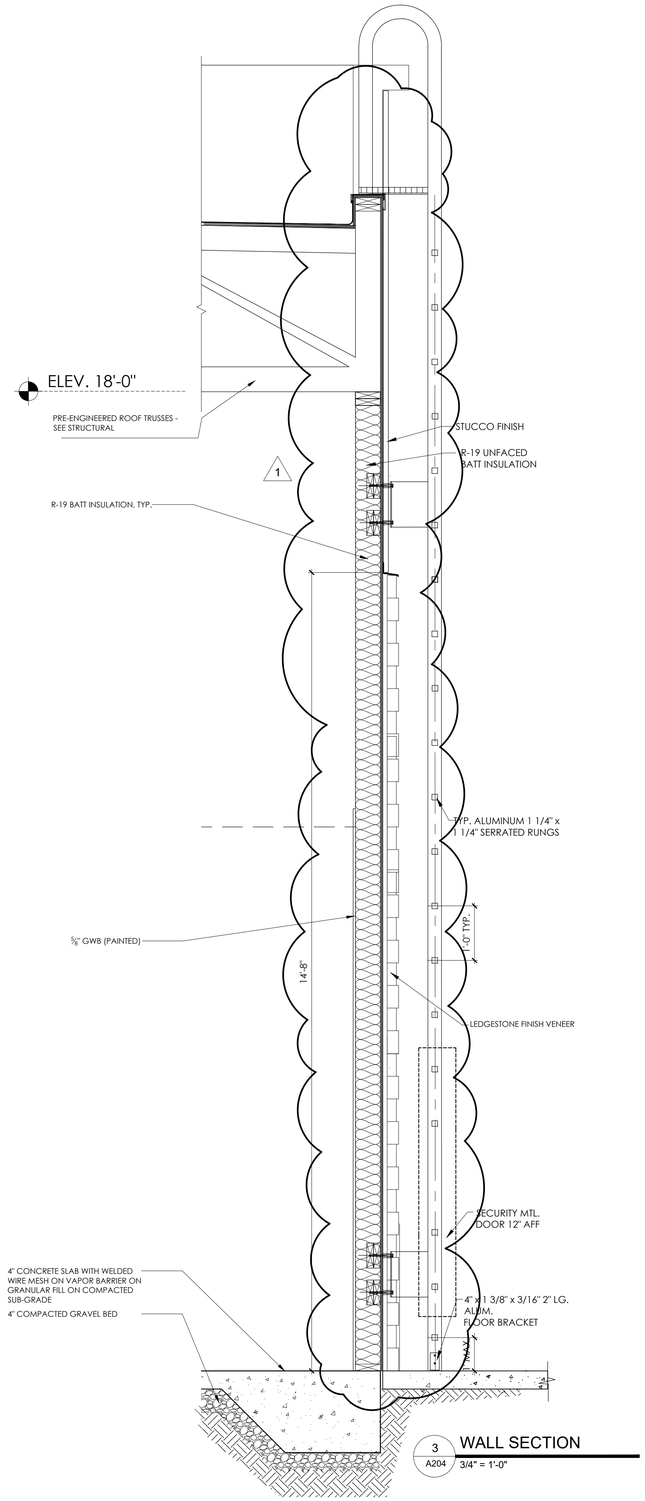
PROJECT NO: 24022

A203

REVIEWED FOR CODE COMPLIANCE
Henry County Building Department
Reviewed by: Ashley Paddock, ICC#12610401 Date: Nov 07 2025







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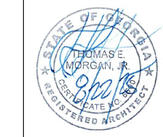

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REV. 1 REVISED ELEVATOR SHAFT
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

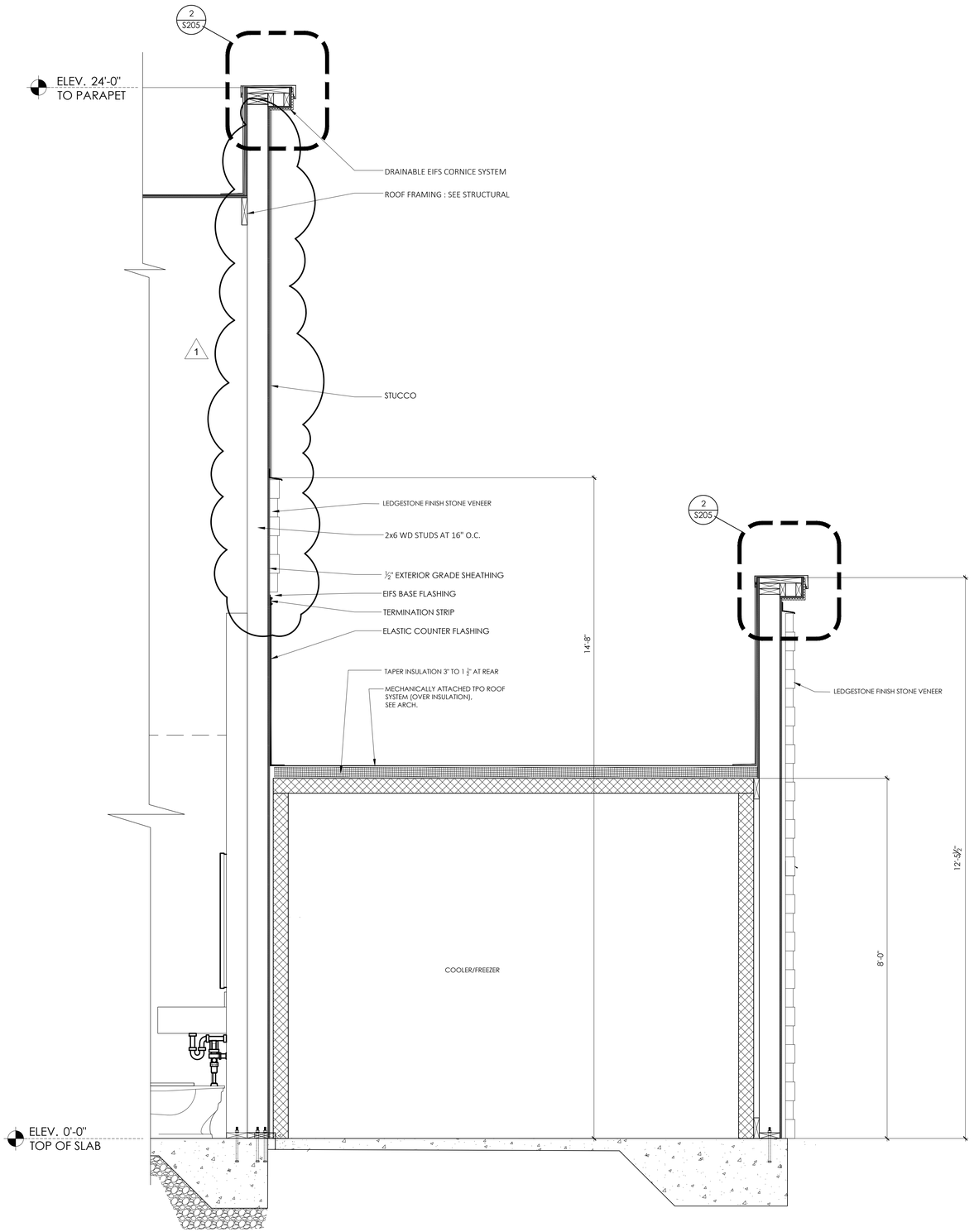
SHEET TITLE:

WALL SECTIONS

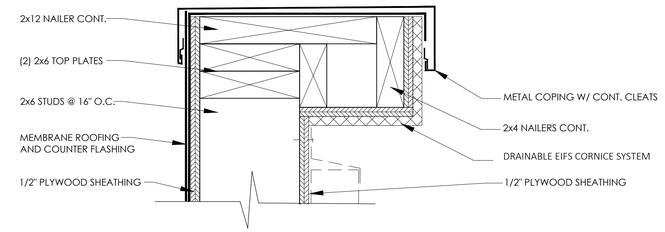
PROJECT NO: 24022

A204

REVIEWED FOR CODE COMPLIANCE
Henry County
Ashley Kerlbeck, ICC#12424881 10/28/2025



1 A205 SECTION AT COOLER/FREEZER
3/4" = 1'-0"



2 A205 TYP. CORNICE DETAIL
3" = 1'-0"

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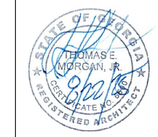
ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:



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www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	05-22-2025	PERMIT SET
1	10-28-2025	PERMIT SET COMMENTS RESPONSES

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

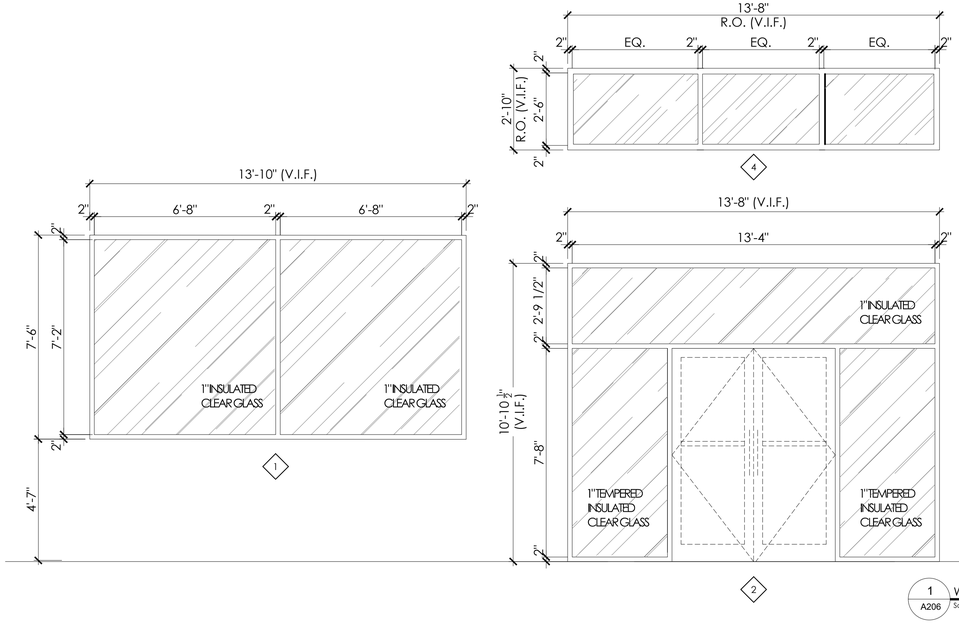
SHEET TITLE:

WALL SECTIONS

PROJECT NO: 24022

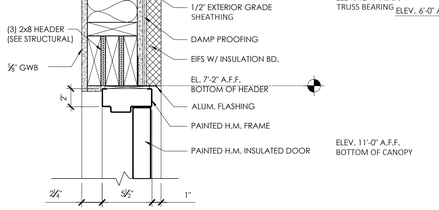
A205

REVIEWED FOR CODE COMPLIANCE
HENRY COUNTY
These plans have been reviewed under the applicable laws in effect at the time of submittal for compliance with the minimum requirements of the Henry County Code of Ordinances. Henry County shall not be held responsible for any omissions from the code requirements or for any errors that may be found in the plans after approval of the same.
Ashley Kimbrell, ICC#12425681, 770-954-7011 ext 3000
Plan Review Date: 11/3/2025

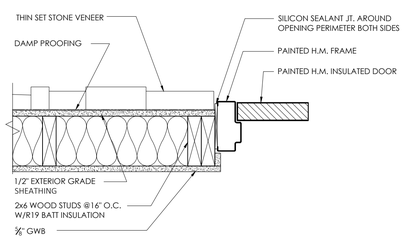


1. ELEVATIONS ARE VIEWED FROM THE OUTSIDE.
2. DIMENSIONS ARE TO THE DAYLIGHT OPENING, TYPICAL (DLO)
3. FIELD VERIFY OPENINGS PRIOR TO FABRICATION.
4. GLAZING:
U-VALUE: 0.29
SHGC: 0.25
PPG SOLARBAN 60, STARPHIRE CLEAR GLASS SYSTEM OR EQUAL.

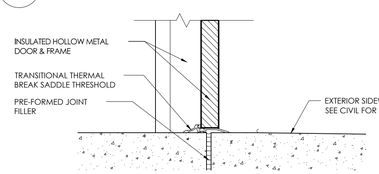
1 A206 WINDOW TYPES
Scale: 3/8" = 1'



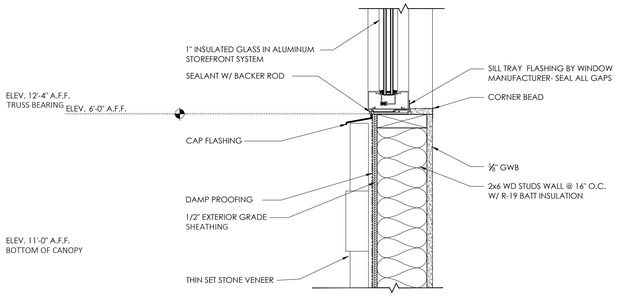
2 A206 HEAD DETAIL AT EXTERIOR H.M. DOOR
Scale: 1 1/2" = 1'



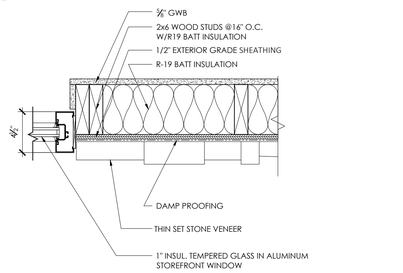
3 A206 JAMB DETAIL AT EXTERIOR H.M. DOOR
Scale: 1 1/2" = 1'



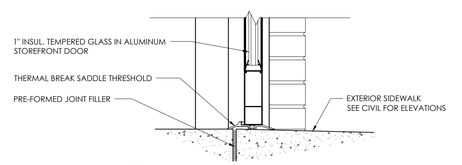
4 A206 THRESHOLD DETAIL AT EXTERIOR H.M. DOOR
Scale: 1 1/2" = 1'



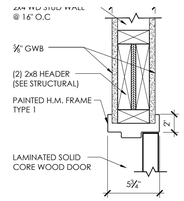
5 A206 SILL DETAIL AT EXTERIOR ALUM. STOREFRONT WINDOW
Scale: 1 1/2" = 1'



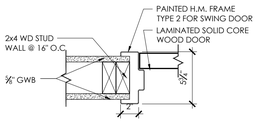
6 A206 JAMB DETAIL AT EXTERIOR ALUM. STOREFRONT DOOR W/ SIDELITES
Scale: 1 1/2" = 1'



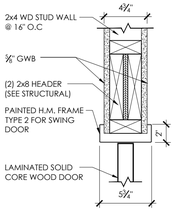
7 A206 THRESHOLD DETAIL AT EXTERIOR ALUM. DOOR
Scale: 1 1/2" = 1'



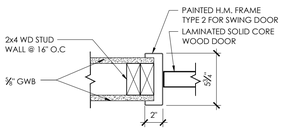
8 A206 HEAD DETAIL AT INTERIOR H.M. DOOR
Scale: 1 1/2" = 1'



9 A206 JAMB DETAIL AT INTERIOR H.M. DOOR
Scale: 1 1/2" = 1'



10 A206 JAMB DETAIL AT INTERIOR H.M. DOOR
Scale: 1 1/2" = 1'



11 A206 JAMB DETAIL AT INTERIOR H.M. SWING DOOR
Scale: 1 1/2" = 1'

REVIEWED FOR CODE COMPLIANCE
Review of this plan and specifications is only for general conformance with the design concept of the project and general compliance with the International Codes and the referenced standards cited in those codes. Jurisdiction has not reviewed and approved the plans and specifications for compliance with applicable codes, ordinances, and regulations. Jurisdiction is not responsible for errors or omissions in the plans and specifications and does not relieve the applicant of responsibility to comply with applicable codes, ordinances, and regulations.

THESE PLANS ARE THE PROPERTY OF MRP DESIGN GROUP, INC. AND ARE SUBJECT TO FEDERAL COPYRIGHT LAWS. ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF MRP DESIGN GROUP, INC. IS STRICTLY PROHIBITED

ARCHITECT OF RECORD:

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

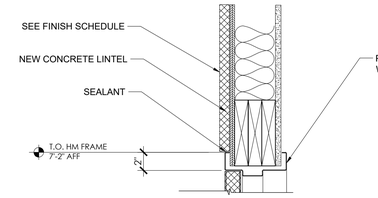
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

WINDOW TYPES & DETAILS

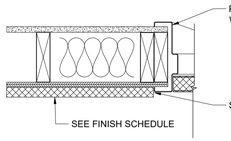
PROJECT NO: 24022

A206

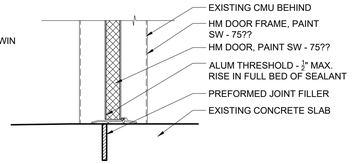


NOTE: PAINT ALL UNFINISHED EXPOSED STEEL SURFACES

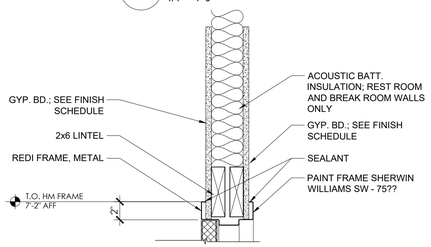
H1 HEAD DETAIL
A1.1 — 1/4" = 1'-0"



J1 JAMB DETAIL
A1.1 — 1/4" = 1'-0"

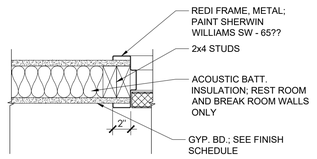


S1 SILL DETAIL
A1.1 — 1/4" = 1'-0"



NOTE: PAINT ALL UNFINISHED EXPOSED STEEL SURFACES

H2 HEAD DETAIL
A1.1 — 1/4" = 1'-0"



J2 JAMB DETAIL
A1.1 — 1/4" = 1'-0"

S2 SILL DETAIL
A1.1 — 1/4" = 1'-0"

NOTE: PAINT ALL UNFINISHED EXPOSED STEEL SURFACES

H3 HEAD DETAIL
A1.1 — 1/4" = 1'-0"

J3 JAMB DETAIL
A1.1 — 1/4" = 1'-0"

S3 SILL DETAIL
A1.1 — 1/4" = 1'-0"

GENERAL NOTES

1. DOORS SHALL SWING INTO FULLY OPENED POSITION WHEN AN OPENING FORCE NOT TO EXCEED 8.5 POUNDS ON EXTERIOR DOORS AND 15 POUNDS ON FIRE DOORS IS APPLIED TO THE LATCH SIDE.
2. ALL DOORS TO BE PROVIDED WITH A SMOOTH, UNINTERRUPTED SURFACE AT THE BOTTOM 10" THAT ALLOWS THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITH CREATING A TRAP OR HAZARDOUS CONDITION.
3. SIGNAGE AT ENTRANCE DOORS SHALL HAVE ACCESSIBLE DOOR DECAL WITH A PICTOGRAM. ALL SIGNAGE TO COMPLY WITH ADA GUIDELINES
4. ALUM. FRAMING SYSTEM:
   - 4.1. 4 1/2" EXTRUDED ALUMINUM FRAMES
   - 4.2. CLEAR ANODIZED ALUMINUM
   - 4.3. 1" INSULATED, TEMPERED GLAZING
5. ALUM/GLASS DOORS: STYLE AND RAIL GLAZED DOORS WITH EXTRUDED ALUMINUM TUBULAR FRAMES
6. MANUFACTURER: "KAWNEER" OR EQUAL
7. PREFINISHED ALUMINUM COLOR: MILL FINISH ANODIZED
8. GLAZING:

U-VALUE: 0.29
SHGC: 0.41
PPG SOLARBAN 60, STARPHIRE CLEAR GLASS SYSTEM OR EQUAL.

HM = HOLLOW METAL
PREFIN = PREFINISHED
ALUM. = ALUMINUM
SS = STAINLESS STEEL
GALV = GALVAINZED, FACTORY PRIMED
PT= FIELD PAINT
SCW= SOLID CORE WOOD

HARDWARE SCHEDULE

SET 1. (ALUM/GLASS ENTRY DOOR)

OFFSET PIVOTS	KAWNEER	MILL FINISH
CONCEALED ROD EXIT DEVICE	KAWNEER 1686	EXTERIOR CYLINDER TRIM, MILL FINISH
CLOSERS	NORTON 1601	MILL FINISH
THRESHOLD, OFFSET PIVOT	KAWNEER	MILL FINISH, ADA COMPLIANT
WEATHERSTRIPPING	THERMA-TRU	

SET 2. (REAR EXIT DOOR)

HINGES - 1½ PAIR	HAGER 253	4½"
RIM TOUCH BAR EXIT DEVICE	VON DUPRIN	22EO
LEVER TRIM	VON DUPRIN	230L 06 22 ALUM FINISH
CLOSER	LCN 4110	ALUM FINISH
THRESHOLD	NG 896N	MILL FINISH, ADA COMPLIANT
DOOR VIEWER	ROCKWOOD	620
KICKPLATE	STAINLESS	INTERIOR SIDE
LATCH GUARD	DON JO	
WEATHERSTRIPPING	THERMA-TRU	

SET 3. (EGRESS EXIT DOOR) (EXIT ONLY)

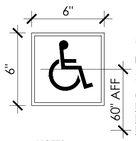
HINGES - 1½ PAIR	HAGER 253	4½"
RIM TOUCH BAR EXIT DEVICE	VON DUPRIN	22EO
LEVER TRIM	VON DUPRIN	230L 06 22 ALUM FINISH
CLOSER	LCN 4110	ALUM FINISH
THRESHOLD	NG 896N	MILL FINISH, ADA COMPLIANT
DOOR VIEWER	ROCKWOOD	620
KICKPLATE	STAINLESS	INTERIOR SIDE
LATCH GUARD	DON JO	
WEATHERSTRIPPING	THERMA-TRU	

SET 4. (RESTROOM DOOR)

HINGES - 1½ PAIR	HAGER 253	4½"
RIM TOUCH BAR EXIT DEVICE	VON DUPRIN	22EO
LEVER TRIM	VON DUPRIN	230L 06 22 ALUM FINISH
CLOSER	LCN 4110	ALUM FINISH
THRESHOLD	NG 896N	MILL FINISH, ADA COMPLIANT
DOOR VIEWER	ROCKWOOD	620
KICKPLATE	STAINLESS	INTERIOR SIDE
LATCH GUARD	DON JO	
WEATHERSTRIPPING	THERMA-TRU	

SET 5. (OFFICE DOOR)

HINGES - 1½ PAIR	HAGER 253	4½"	
LEVER TRIM	SCHLAGE	ND50PD	OFFICE LOCK
WALL STOP	IVES	WS406CCV	CONCEALED MOUNTING



ACCESSIBLE DOOR DECAL

INTERNATIONAL SYMBOL FOR ACCESSIBILITY - PICTOGRAM WINDOW DECAL
(NOTE: INCLUDE ARROW DECAL DEPICTING DIRECTION TO ACCESSIBLE ENTRANCE IF NOT AN ACCESSSIBLE ENTRANCE)

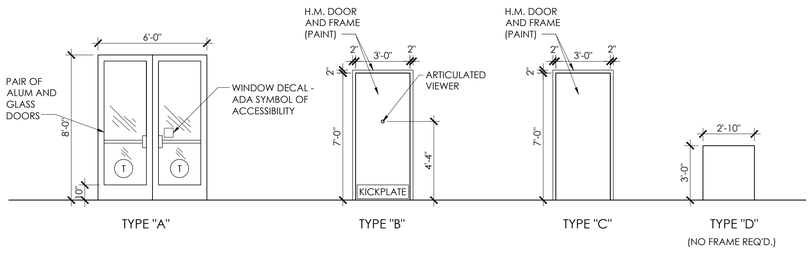
NOTES:

1. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR , MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

2. THE SIGN SHALL BE LOCATED ALONG SIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF , THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. EXCEPTION - SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD OPEN DEVICES.

DOOR AND FRAME SCHEDULE

DESCRIPTION	NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE	REMARKS	NO.
STOREFRONT ENTRANCE	1	PR 3'-0" X 7'-0"	A	ALUM	PREFIN	ALUM	PREFIN	H1/A207	J1/A207	S1/A207	PER MFG	STOREFRONT ENTRANCE;	1
REAR EXIT DOOR	2	3'-0" X 7'-0" X 1-3/4"	B	HM	PREFIN	HM	PREFIN	H2/A207	J2/A207	S1/A207	SET 2	INSULATED HM DOOR	2
ELIASON SWINGING DOOR	3	2'-10" x 3'-0"	D	-	LAM	-	-	-	-	-	-		3
ELIASON SWINGING DOOR	4	2'-10" x 3'-0"	D	-	LAM	-	-	-	-	-	-		4
OFFICE DOOR	5	3'-0" X 7'-0" X 1-3/4"	C	HM	PREFIN	HM	PREFIN	H1/A207	J1/A207	S1/A207	SET 5	HM DOOR	5
MEN'S RESTROOM DOOR	6	3'-0" X 7'-0" X 1-3/4"	C	HM	PREFIN	HM	PREFIN	H3/A207	J3/A207	S3/A207	SET 2	HM DOOR	6
JANITOR'S CLOSET DOOR	7	3'-0" X 7'-0" X 1-3/4"	C	HM	PREFIN	HM	PREFIN	H3/A207	J3/A207	S3/A207	SET 5	HM DOOR	7
WOMEN'S RESTROOM	8	3'-0" X 7'-0" X 1-3/4"	C	HM	PREFIN	HM	PREFIN	H3/A207	J3/A207	S3/A207	SET 2	HM DOOR	8
STORAGE ROOM DOOR	9	3'-0" X 7'-0" X 1-3/4"	C	HM	PREFIN	HM	PREFIN	H3/A207	J3/A207	S3/A207	SET 5	HM DOOR	9
UTILITY ROOM DOOR	10	3'-0" X 7'-0" X 1-3/4"	C	HM	PREFIN	HM	PREFIN	H3/A207	J3/A207	S3/A207	SET 5	HM DOOR	10



TYPE "A" | TYPE "B" | TYPE "C" | TYPE "D" (NO FRAME REQ'D.)

■ NOTES

1. ELEVATIONS ARE VIEWED FROM THE OUTSIDE.
2. DIMENSIONS ARE TO THE DAYLIGHT OPENING, TYPICAL (DLO)
3. FIELD VERIFY OPENINGS PRIOR TO FABRICATION.
4. GLAZING:

U-VALUE: 0.29
SHGC: 0.25
PPG SOLARBAN 60, STARPHIRE CLEAR GLASS SYSTEM OR EQUAL.

■ LEGEND

(T) INDICATES TEMPERED GLAZING

(S) INDICATES SPANDREL GLAZING

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REVIEWED FOR CODE COMPLIANCE
These plans have been reviewed under the applicable laws in effect at the time of permitting. Review is limited to general conformance with the codes and laws in effect at the time of permit. Plans were relied on by the code official to be complete and accurate in all respects. Any omissions or inaccuracies in the plans do not relieve the responsibility of the design professional.
Building Official(s): JC,MJ,AG,DG,BS,RH,TM,JH,TC,MW,MH
Date: 09/15/2025

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

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ELLIJAY, GEORGIA 30540

SEAL:

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P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
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CONVENIENCE STORE

PROJECT TITLE:

C-STORE
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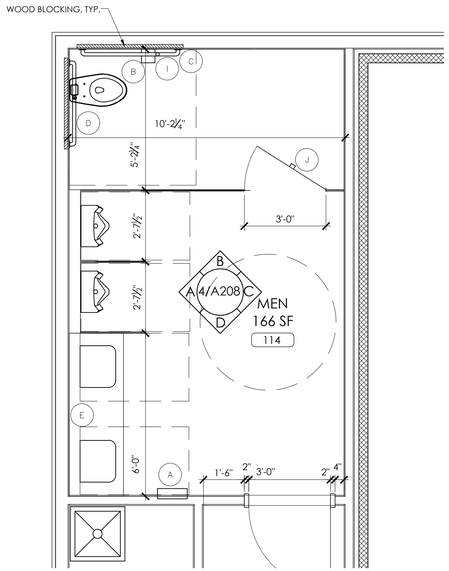
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

DOOR SCHEDULE & DETAILS

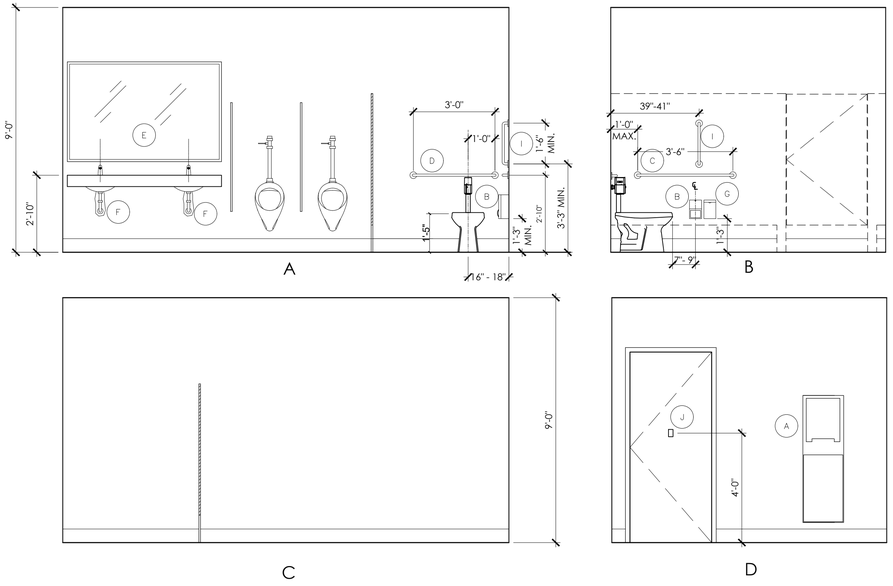
PROJECT NO: 24022

A207



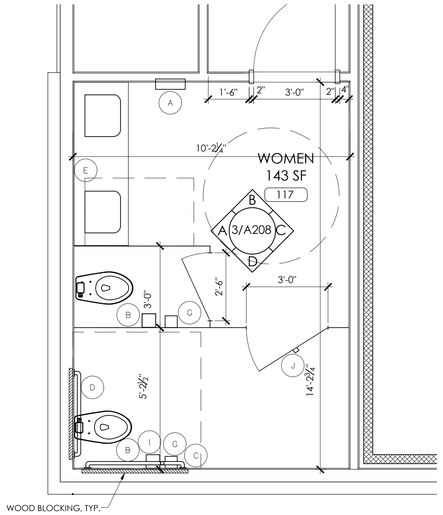
2 A208 ENLARGED BATHROOM PLAN

3/8" = 1'-0"



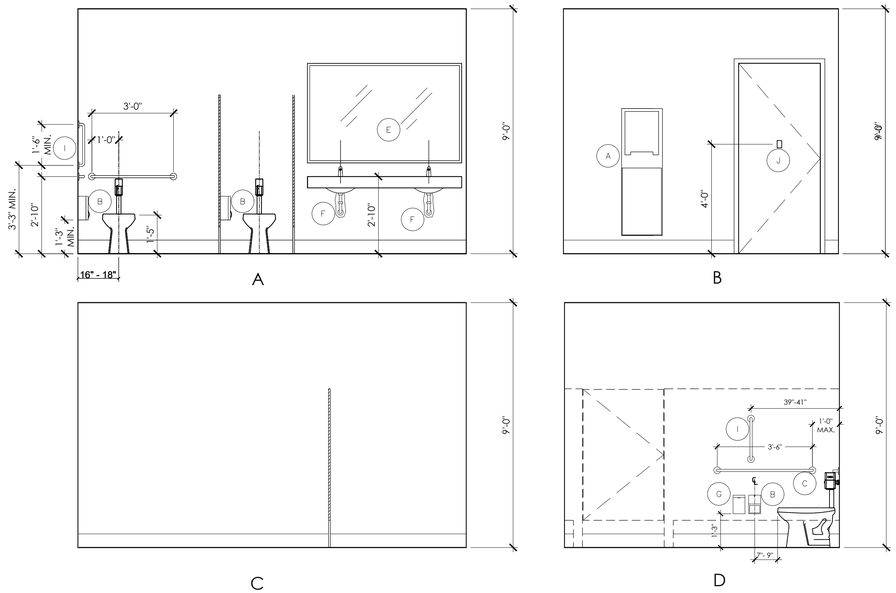
4 A208 ENLARGED BATHROOM ELEVATIONS

3/8"= 1'-0"



1 A208 ENLARGED BATHROOM PLAN

3/8"= 1'-0"



3 A208 ENLARGED BATHROOM ELEVATIONS

3/8"= 1'-0"

RESTROOM ACCESSORIES SCHEDULE

SYM.	NO.	ITEM	MANUFACTURER - TYPE		REMARKS
A	2	PAPER TOWEL DISPENSER AND TRASH	BOBRICK WB8489406		STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE 12 GALLONS
B	2	TOILET PAPER DISPENSER: SURFACE MOUNTED	BOBRICK B-2888		STAINLESS STEEL
C	2	42" SIDE GRAB BAR	BOBRICK B-5806.99 x 42	PEENED	STAINLESS STEEL, SATIN, FURNISHED COMPLETE W/ MOUNTING KIT
D	2	36" REAR GRAB BAR	BOBRICK B-5806.99 x 36	PEENED	STAINLESS STEEL, SATIN, FURNISHED COMPLETE W/ MOUNTING KIT
E	2	MIRROR	BOBRICK B-165 1836 CHANNEL FRAME		STAINLESS STEEL WITH BRIGHT-POLISHED FINISH, MITERED CORNERS, VANDAL RESISTANT
F	4	PIPE BOOTS, PIPE PROTECTION KIT	TRUEBRO 82193		PROTECT ALL EXPOSED PIPES
G	2	SANITARY NAPKIN DISPOSAL	BOBRICK B-270		MOUNT IN WOMEN'S AT 30" AFF TO TOP
H	4	SOAP DISPENSER	BOBRICK B-4112 (OPTIONAL)		
I	2	18" VERT. GRAB BAR	BOBRICK B - 5806 - 18	PEENED	STAINLESS STEEL, SATIN, FURNISHED COMPLETE W/ MOUNTING KIT
J	2	ACCESSIBLE COAT HOOK	BOBRICK B - 76717		STAINLESS STEEL, SATIN, FURNISHED COMPLETE W/ MOUNTING KIT

ACCESSIBILITY NOTES: ADA/ANSI A117.1

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
3. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED 80" ABOVE THE FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
4. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (i.e. LEVER-OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED NO HIGHER THAN 48" ABOVE THE FLOOR.
5. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25" AND 0.5" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2". CHANGES IN LEVEL GREATER THAN 0.5" REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5" MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5" WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5" IN HEIGHT.
6. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25"-1.50" IN DIAMETER WITH 1.5" CLEAR SPACE BETWEEN THE BAR AND THE WALL.
7. ACCESSIBLE WATER CLOSETS SHALL BE 17"-19" FROM FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36" LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42" MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33"-36" ABOVE THE FLOOR.
8. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17" ABOVE THE FLOOR.
9. ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34" ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 29" ABOVE THE FLOOR TO THE BOTTOM OF THE APRON.
10. ACCESSIBLE SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34" ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP UNDERNEATH SINK. THE SINK DEPTH SHALL BE 6.5" MAXIMUM.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER
12. ACCESSIBLE LAVATORIES AND SINKS. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (i.e. LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED.)
13. WHERE MIRRORS ARE PROVIDED IN RESTROOM, AT LEAST ONE SHALL BE PROVIDED WITH THE BOTTOM EDGE OF THE REFLECTIVE SURFACE NO HIGHER THAN 40" ABOVE THE FLOOR.

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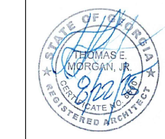
REVIEWED FOR CODE COMPLIANCE
Review of these plans and specifications by the Georgia Department of Community Affairs is limited to compliance with the codes adopted by the Georgia Department of Community Affairs and does not be construed as to be such as that, or as opposed to, any other law, ordinance, regulation, standard or specification enforced or administered by any other governmental or quasi-governmental agency.
Building Authority, JURISDICTION: Fill in the ID #
DATE

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:



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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

ENLARG. BATHROOMS PLANS & ELEV.

PROJECT NO: 24022

A208

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GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, INCLUDING THE SIZE AND LOCATION OF MISCELLANEOUS ITEMS AFFECTING THE STRUCTURAL WORK SUCH AS SMALL OPENINGS, PIPE SLEEVES, RECESSES, BENT PLATES, ETC. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR OMISSIONS. OPENINGS THROUGH BEAMS, GIRDERS AND/OR COLUMNS SHALL BE VERIFIED BY ENGINEER.
2. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS PRIOR TO COMMENCING WORK. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL VERIFY ALL FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENT DIMENSIONS AND WEIGHTS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND REVIEWED SHOP DRAWINGS.
4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, RE-SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. DO NOT SCALE DRAWINGS. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWING. ANY MISSING DIMENSIONS WILL BE FURNISHED UPON REQUEST.
6. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
7. THESE GENERAL NOTES APPLY WHERE OTHER PROVISIONS ARE NOT PROVIDED BY THE DRAWINGS, SPECIFICATIONS OR TYPICAL DETAILS. IN CASE OF SPECIAL CONDITIONS INDICATED ON DRAWINGS, THE DRAWINGS SHALL GOVERN OVER THE SPECIFICATIONS.
8. THE CONTRACTOR SHALL PROVIDE ALL CENTERLINE-TO-CENTERLINE DIMENSIONS TO THE STEEL FABRICATOR PRIOR TO SHOP DRAWING SUBMITTAL AND FABRICATION OF STRUCTURAL STEEL.
9. CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ORDINANCES, AND THE INTERNATIONAL RESIDENTIAL CODE 2012.

DESIGN NOTES

REFERENCED CODES		
INTERNATIONAL BUILDING CODE	IBC	2018
MINIMUM DESIGN LOADS	ASCE-7-16	2010
MASONRY STRUCTURES	ACI 530	2011
STRUCTURAL CONCRETE	ACI 318	2011
AISC	AISC 360	2010

LIVE LOADS	
OCCUPANCY OR USE:	UNIFORM (PSF)
ROOF	20
GUEST ROOMS & CORRIDORS THAT SERVE THEM	40
CORRIDORS (1ST FLOOR ONLY) & STAIRWELLS	100

SNOW LOADS	
GROUND SNOW LOAD, Pg	0 PSF
IMPORTANCE FACTOR, I_s	1.0
EXPOSURE FACTOR, Ce	0.90
THERMAL FACTOR, Ct	1.00
FLAT ROOF SNOW LOAD, Pf	3.5 PSF

WIND DESIGN CRITERIA			
DESIGN SPEED: ULTIMATE (V_{ult}) NOMINAL (V_{asd})	115MPH 89MPH	DESIGN BASE SHEAR: (X-X) = 33.5k (Y-Y) = 23.0k	
RISK CATEGORY:	II	COMPONENTS & CLADDING WIND PRESSURES:	REFER TO A/S-0.0
WIND EXPOSURE (X-X):	B	MWFRS ULTIMATE PRESSURE	23.8 PSF
WIND EXPOSURE (Y-Y):	B	ULTIMATE ROOF UPLIFT	28.2 PSF
IMPORTANCE FACTOR (I_w):	1.0	NET SERVICE UPLIFT	0.6*(28.2-15) = 7.9 PSF
INTERNAL PRESSURE COEFFICIENT:	±0.18		

SEISMIC DESIGN CRITERIA	
RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I_e):	I_e = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S_s = 0.300g S_1 = 0.117g
SITE CLASS:	D
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S_{ds} = 0.312g S_{d1} = 0.182
DESIGN RESPONSE SPECTRUM:	T_L = 8 sec
SEISMIC DESIGN CATEGORY:	C
SEISMIC-FORCE RESISTING SYSTEM: [X-X AND Y-Y DIRECTION]	LIGHT-FRAME WALLS SHEATHING WITH WOOD STRUCTURAL PANELS
RESPONSE MODIFICATION FACTOR: [X-X AND Y-Y DIRECTION]	R = 6.5
SEISMIC RESPONSE COEFFICIENT:	C_s = 0.0480
DESIGN BASE SHEAR:	V = 9.8k
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE

SPECIAL INSPECTION:

1. REFER TO ATTACHED DOCUMENTS FOR STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS REQUIREMENTS IN ACCORDANCE WITH IBC SECTION 1704.3.
2. SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

SHOP DRAWINGS SUBMITTALS

COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA, REVIEWED AND APPROVED BY ALL APPLICABLE PARTIES OF THE DESIGN TEAM OF RECORD, AND AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION.

WOOD:

1. ALL CONVENTIONAL TIMBER CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE AMERICAN FOREST AND PAPER ASSOCIATION. ALL STUDS SHALL BE #2 SPRUCE-PINE-FIR OR BETTER. ALL OTHER TIMBER SHALL BE STRUCTURAL GRADED #2 SOUTHERN PINE OR BETTER UNLESS NOTED OTHERWISE. PLYWOOD CONSTRUCTION SHALL UTILIZE AMERICAN PLYWOOD ASSOCIATION RATED MATERIALS.
2. ALL TIMBER IN CONTACT WITH CONCRETE OR MASONRY WITHIN 6" OF GRADE, OR REMAIN EXPOSED TO WEATHER SHALL BE PRESSURE TREATED #2 SOUTHERN PINE.
3. AT LOAD BEARING WALLS, TOP PLATE SHALL BE DOUBLE, SILL PLATE SHALL BE SINGLE. ALL LOAD BEARING WALLS SHALL BE CONSTRUCTED OF STUDS AND PLATES WITH A MOISTURE CONTENT ≤ 19%.
4. EACH LAYER OF MULTIPLE STUDS SHALL BE NAILED TO ADJACENT STUDS WITH (2)10d NAILS @ 8" O.C. STUD POST SIZE SHALL MATCH STUD WALL SIZE, EXCEPT AS NOTED ON PLAN.
5. ALL WOOD POSTS ARE DESIGNED WITH THE ASSUMPTION THAT SHEATHING (EITHER GYPSUM OR OSB/PLYWOOD) IS ATTACHED TO A MINIMUM OF ONE (1) FACE OF EACH POST CONTINUOUSLY PER THE INDICATED WALL ATTACHMENT SPACING IN THE FINAL CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE TEMPORARY BRACING UNTIL ALL ELEMENTS SHOWN ARE IN PLACE (SEE WOOD NOTES 10/S0.0).
6. CUTTING AND NOTCHING OF ALL LOAD BEARING STUDS SHALL NOT EXCEED A DEPTH OF 25% OF THE STUD WIDTH (7/8" FOR 2x4 STUDS). NOTCHES EXCEEDING 25% OF STUD WIDTH AND LESS THAN 2½" SHALL BE REINFORCED WITH A SIMPSON SS STUD SHOE. CONTACT THE STRUCTURAL ENGINEER OF RECORD AT LOCATIONS REQUIRING LARGER NOTCHES. POSTS SHALL NOT BE CUT OR NOTCHED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.
7. BORING OF ANY STUD WALL SHALL NOT EXCEED 40% OF STUD WIDTH OR BE CLOSER THAN 5/8" FROM EITHER EDGE OF THE STUD. IF A BORED HOLE IS BETWEEN 40% AND 60% OF THE STUD WIDTH, THE NUMBER OF STUDS AT THE LOCATION OF THE BORED HOLE SHALL BE DOUBLED AND NO MORE THAN TWO SUCCESSIVE STUD GROUPS SHALL BE BORED. POSTS SHALL NOT BE BORED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.
8. ROOF SHEATHING SHALL BE 24/16 7/16" MIN. APA RATED SHEATHING U.N.O., LAID WITH FACE GRAIN PERPENDICULAR TO THE FRAMING AND STAGGERED 4'-0". MINIMUM NAILING SHALL BE 8d NAILS @ 6" O.C. ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING SHALL BE SUPPORTED WITH SIMPSON PSCL CLIPS, PROVIDE (2) CLIPS EQUALLY SPACED BETWEEN EACH TRUSS/SUPPORT.
9. SUB-FLOOR SHEATHING SHALL BE 48/24 3/4" APA RATED PLYWOOD U.N.O. GLUED AND NAILED TO JOISTS. MINIMUM NAILING SHALL BE 8d NAILS AT 6" O.C. ON PANEL EDGES AND 12" O.C. AT INTERIOR SUPPORTS.
10. ALL EXTERIOR WALL SHEATHING AND SHEAR PANEL SHEATHING SHALL BE 7/16" PLYWOOD U.N.O. MINIMUM NAILING SHALL BE 8d x 2½" LONG NAILS SPACED AT 4" O.C. ON PANEL EDGES AND 6" O.C. AT INTERIOR AREAS. CONTRACTOR TO INSPECT ALL NAILING BEFORE EXTERIOR VENEER IS PLACED. DRYWALL NAILING TO BE APPROVED BEFORE TAPING. PROVIDE MINIMUM 2½"x2½"x¼" STEEL PLATE WASHER @ EXTERIOR WALL AND SHEAR PANEL ANCHOR BOLTS.
11. ALL LOAD BEARING AND EXTERIOR WALLS SHALL BE AS FOLLOWING (U.N.O.):
    1ST FLOOR TO ROOF – 2x6 @ 16" O.C.
12. PLACE (2) STUDS MINIMUM IN WALLS FOR BEARING OF ALL BEAM, HIP, VALLEY MEMBERS U.N.O AS GREATER ON PLANS. EACH LAYER OF GANGED STUDS SHALL BE NAILED TO ADJACENT STUDS WITH 10d NAILS @ 8" O.C. STAGGERED. CONTINUE ALL POSTS DOWN TO FOUNDATION OR TRANSFER BEAMS BELOW.
13. BEAMS DESIGNATED ON THE PLANS AS LVL OR PSL SHALL BE 2.0E LAMINATED VENEER LUMBER AS MANUFACTURED BY TRUS-JOIST, GEORGIA PACIFIC, OR APPROVED ALTERNATE.
14. WOOD ROOF TRUSSES AND OPEN WEB FLOOR JOIST SHALL BE DESIGNED BY THE MANUFACTURER ACCORDING TO THE FOLLOWING PROVISIONS:
    a. THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" BY THE TRUSS PLATE INSTITUTE APPLY.
    b. A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF PROJECT, SHALL PERFORM THE DESIGN. DESIGN SHALL INCLUDE ALL CONNECTIONS AND ATTACHMENTS REQUIRED FOR A COMPLETE INSTALLATION USING THE DESIGN LOADS SHOWN ON PLANS.
    c. DESIGN CALCULATIONS AND SHOP DRAWINGS, INCLUDING ERECTION PLANS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.
    d. ALL REQUIRED BRACING SHALL BE SHOWN ON THE ERECTION PLANS PREPARED BY THE FABRICATOR AND BE IN ACCORDANCE WITH BCSI 1-08 "THE GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" AND RELATED SUMMARY SHEETS.
    e. TRUSSED RAFTERS SHALL BE ANCHORED TO PLATES WITH SIMPSON TBE CONNECTOR (OR APPROVED EQUAL), AT EACH END OF EACH TRUSS.
    f. ALL TRUSS CONNECTOR PLATES SHALL BE MANUFACTURED FROM ASTM A446-72 GRADE A GALVANIZED STEEL OF NO LESS THAN 20 GAGE THICKNESS WITH A MINIMUM YIELD OF 33,000 PSI AND AN ULTIMATE TENSILE STRENGTH OF 45,000 PSI.
    g. ALL ROOF TRUSSES ARE TO HAVE METAL STRAPS AT EACH END TO RESIST UPLIFT FORCES. STRAPS ARE TO BE ATTACHED IN ACCORDANCE WITH SUPPLIER SPECIFICATIONS. CONTRACTOR VERIFY THAT THE ROOF CLIPS CALLED OUT ON THE STRUCTURAL DRAWINGS WILL RESIST FORCES CALLED OUT ON THE TRUSS SHOP DRAWINGS AND PROVIDE ADDITIONAL CLIPS IF REQUIRED.
    h. FLOOR SYSTEM DEAD LOADS: 15 PSF TOP CHORD, 5 PSF BOTT CHORD
    i. ROOF SYSTEM DEAD LOADS: 10 PSF TOP CHORD, 10 PSF BOTT CHORD
    j. FLOOR SYSTEM DEFLECTION REQUIREMENTS: TL: L/360, LL: L/480
       ROOF SYSTEM DEFLECTION REQUIREMENTS: TL: L/240, LL: L/360
15. DURING CONSTRUCTION, PROVIDE BRACING FOR FRAMING UNTIL ALL ELEMENTS FOR EXTERIOR SHEAR WALLS AND FLOOR DIAPHRAGMS ARE IN PLACE.
16. UNLESS DETAILED SPECIFICALLY OTHERWISE, USE A METAL CONNECTOR AT ALL BEAM & TRUSS SUPPORTS, BEAM TO BEAM, POST TO BEAM, AND POST TO FLOOR CONNECTIONS. USE SIMPSON PRODUCTS, OR AN APPROVED EQUAL, SIZED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS FOR CONNECTION TYPE AND LOADS ENCOUNTERED.
17. PROVIDE ½"ø ANCHOR BOLT W/ NUT & WASHER AT SILL PLATE, @ 4'-0" O.C. & 7" MIN. EMBEDMENT. PROVIDE (2) A.B. MIN. PER SILL PLATE SEGMENT W/ (1) A.B. LOCATED @ 4" MIN. & 12" MAX. FROM ENDS.
18. ALL NAILS REFERENCED IN THE DRAWINGS (UNLESS NOTED OTHERWISE) ARE COMMON WIRE NAILS TO BE SIZED AS FOLLOWS:
    8d = 0.131"ø

REINFORCING:

1. CONCRETE REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A615, GRADE 40 FOR #3 BARS AND ASTM A615, GRADE 60 FOR #4 AND LARGER BARS.
2. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, LATEST EDITION.
3. REINFORCING STEEL SHALL BE SPLICED ONLY AS INDICATED ON THE PLANS. WHEN SPLICE LENGTHS ARE NOT GIVEN ON THE PLANS, THEY SHALL BE TAKEN FROM THE TABLE BELOW. USE "CLASS B" LAPS UNLESS THE PLANS INDICATE "CLASS A".

BAR SIZE	CLASS "B" SPLICE	CLASS "A" SPLICE
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"
#10	118"	91"
#11	131"	101"

LAPS SHOWN ABOVE WERE CALCULATED PER ACI 318-11, EQ. 12-1 FOR MATS, WALLS, BEAMS, COLUMNS AND SLABS. VALUES ASSUMED ARE: f'c 3000 PSI, Ktr=0, 1" MIN COVER AND 2" MIN CLEAR BETWEEN BARS FOR #4, #5 AND #6 BARS, AND 1½" MIN COVER AND 3" MIN CLEAR BETWEEN BARS FOR #7 THRU #11 BARS. SHORTER LAPS MAY BE CALCULATED FOR SOME SPECIFIC CONDITIONS SUCH AS TIED BEAMS OR ADDITIONAL COVER. LAPS MUST BE INCREASED 50% PER ACI 318-11 FOR EPOXY COATED REBAR, OR 30% FOR LIGHTWEIGHT CONCRETE.

4. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND HAVE 90-DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS. PROVIDE TWO #5 BARS AT ALL FOUR SIDES OF EACH OPENING AND EXTEND 2'-0" BEYOND CORNERS OF THE OPENING. ADD TWO #5 BARS 4'-0" LONG AS DIAGONAL BARS AT EACH CORNER. ALL WALLS SHALL HAVE FOLLOWING REINFORCING UNLESS OTHERWISE NOTED:
   8" OR LESS – #5 @ 16" O.C. EACH WAY @ WALL CENTERLINE
5. LAPS IN W.W.F. SHOULD BE ONE MESH PLUS TWO INCHES AT SPLICES.
6. PROVIDE EXTRA REINFORCING AROUND ALL OPENINGS, INCLUDING DOOR OPENINGS: TWO #5 BARS AT ALL FOUR SIDES OF EACH OPENING AND EXTEND 2'-0" BEYOND THE CORNERS OF THE OPENING. ADD TWO #5 BARS 4'-0" LONG AS DIAGONAL BARS AT EACH CORNER.
7. TEMPERATURE STEEL FOR SLABS SHALL BE #3 @ 16" O.C. OR WWM PLACED 1" FROM TOP OF SLAB UNLESS SHOWN OTHERWISE. WHERE WWM IS USED, USE PLASTIC MESH 'CHAIRS' SPACED SO THAT NO MORE THAN 3 SQ FEET OF MESH IS SUPPORTED ON EACH 'CHAIR', UNLESS OTHERWISE SPECIFIED
8. ALL BAR HOOKS SHALL BE STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. SEE SECTION 7.7 OF ACI 318-11 FOR CONDITIONS NOT NOTED.
10. DESIGN OF STRUCTURAL ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS AND COLUMNS IS IN ACCORDANCE WITH ACI 318

CONCRETE:

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", EXCEPT AS NOTIFIED BY THE REQUIREMENTS OF THESE STRUCTURAL DRAWINGS.
2. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A DESIGNATED COMPRESSIVE STRENGTH (F'c) IN 28 DAYS OF 3000 PSI WITH A 4" (±1") SLUMP UNLESS NOTED OTHERWISE.
3. SAWN CONTROL JOINTS IN EXPOSED SLABS, SHALL BE 1/8" WIDE x 1" DEEP AND SHOULD BE CUT (AS SOON AS CONDITIONS ALLOW) WITHIN 12 HOURS AFTER CONCRETE IS PLACED. MAXIMUM "C.J." SPACING SHALL BE 15 FT IN EITHER DIRECTION.
4. SLAB-ON-GRADE NOT OTHERWISE SPECIFIED, SHALL BE 4" THICK MINIMUM WITH 6x6-W2.9xW2.9 WELDED WIRE MESH PLACED 1" FROM TOP OF SLAB. USE PLASTIC MESH 'CHAIRS' SPACED SO THAT NO MORE THAN 3 SQ FEET OF WIRE IS SUPPORTED ON EACH 'CHAIR', UNLESS OTHERWISE SPECIFIED. SLAB SHALL BE PLACED ON 6-MIL VAPOR BARRIER ON 4" OF #57 STONE OR COMPACTED SAND OR CRUSHER RUN. VAPOR BARRIER MAY BE OMITTED FROM DRIVES, WALKS, PATIOS, AND OTHER FLAT WORK NOT LIKELY TO BE ENCLOSED AND HEATED AT A LATER DATE. JOINTS LAPPED NOT LESS THAN 6".
5. CONCRETE COARSE AGGREGATE, WITH A MAXIMUM SIZE OF 1" MAY BE USED IN FOUNDATIONS. ALL OTHER CONCRETE SHALL HAVE A COARSE AGGREGATE WITH A MAXIMUM SIZE OF 3/4".
6. CONCRETE MIXING, TRANSPORTING, PLACING, AND CURING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 301. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH REQUIREMENTS OF ASTM C94 OR ASTM C685.
7. THE CLEAR DISTANCE BETWEEN REINFORCING BARS, BUNDLED BARS, PRE-STRESSING TENDONS, AND DUCTS SHALL BE IN ACCORDANCE WITH THE LIMITATIONS OF ACI 318.
8. ALL EQUIPMENT FOR MIXING AND TRANSPORTING CONCRETE SHALL BE CLEAN. ALL DEBRIS, WATER AND ICE SHALL BE REMOVED PRIOR TO PLACING CONCRETE. FORMS SHALL BE PROPERLY COATED. MASONRY FILLER UNITS THAT WILL BE IN CONTACT WITH CONCRETE SHALL BE WELL DRENCHED. REINFORCEMENT SHALL BE CLEAN OF ICE OR OTHER DELETERIOUS COATING. ALL LAITANCE AND OTHER UNSOUND MATERIAL SHALL BE REMOVED BEFORE ADDITIONAL CONCRETE IS PLACED AGAINST HARDENED CONCRETE.
9. MINIMUM COVER FOR CAST-IN-PLACE CONCRETE REINFORCEMENT:

	MINIMUM COVER (IN)
(a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
(b) CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1½
(c) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLAB, WALLS, JOIST: #11 BARS AND SMALLER	3/4
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1½

FOUNDATION:

1. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THIS VALUE SHALL BE VERIFIED BY A REGISTERED SOIL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. IF ACTUAL VALUES VARY BY MORE THAN TEN PERCENT FROM DESIGN BEARING PRESSURE, FOOTINGS SHALL BE REDESIGNED. ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED ORIGINAL SOIL OR COMPACTED FILL.
2. ALL BACKFILLING SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY A REGISTERED SOILS ENGINEER. FILL MATERIAL TAKEN FROM SITE EXCAVATION SHALL HAVE OPTIMUM MOISTURE CONTENT FOR COMPACTION AND BE FREE OF ANY DEBRIS. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698, IN MAXIMUM LIFTS OF EIGHT INCHES. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WITHOUT PROVISIONS FOR ADEQUATE BRACING OF THESE WALLS.
3. FILL MATERIAL SHALL BE ADEQUATELY DRAINED TO PREVENT ANY DAMAGE TO THE BUILDING'S FOUNDATION BY GROUND WATER FLOWS OR SURFACE WATER RUN-OFF.
4. REMOVE ORGANIC MATERIALS AND LARGE ROCKS AND PROVIDE TERMITE TREATMENT PRIOR TO PLACING VAPOR BARRIER AND CONCRETE SLABS.
5. ALL SOIL CONDITIONS ARE SUBJECT TO EVALUATION BY A SOILS ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. SOILS WITHOUT ADEQUATE CAPACITY TO SUPPORT DESIGN LOADS MUST BE REPLACED OR MODIFIED PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. ALL VAPOR BARRIERS TO BE 6 MIL. POLYETHYLENE SHEETING UNLESS NOTED OTHERWISE.
7. PATIO SLABS ARE TO BE 4" THICK STANDARD CONCRETE SLABS WITH TURNED DOWN EDGE.
8. ALL WIRE MESH AND REBARS ARE TO BE PLACED ON SUPPORTS PER ACI STANDARDS PRIOR TO POURING CONCRETE.
9. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHING REQUIREMENT
10. ALL CONCRETE RETAINING WALLS SHALL BE CURED AT LEAST SEVEN DAYS AND ADEQUATELY BRACED PRIOR TO BACKFILLING IN ACCORDANCE WITH APPLICABLE CODES.

POST-INSTALLED ANCHOR NOTES:

THE FOLLOWING PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE AS SHOWN IN THE DETAILS. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD (EOR) FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A CODE REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT. CONTRACTORS SHALL CONTACT A MANUFACTURER'S REPRESENTATIVE (800-999-5099) FOR PRODUCT INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE EOR INDICATING THAT TRAINING HAS TAKEN PLACE. SPECIAL INSPECTIONS ARE REQUIRED PER THE IBC AND ICC-ES REPORTS.

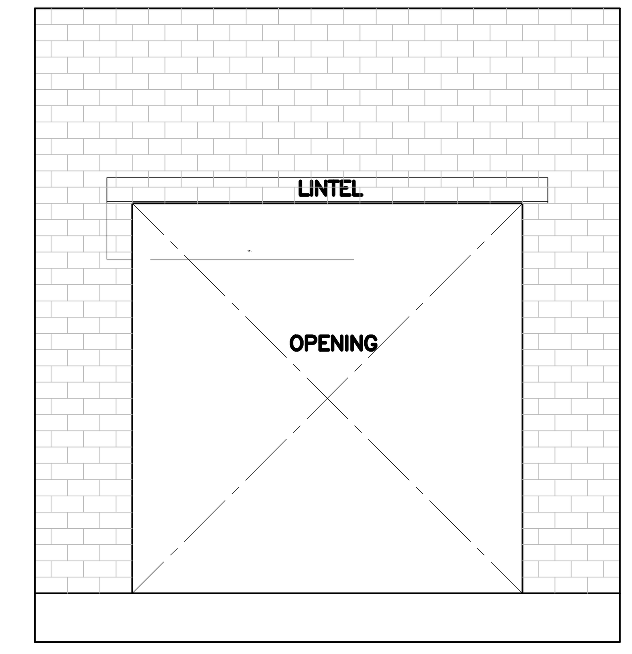
A. FOR ANCHORING INTO CONCRETE

I. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
   (1) SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ESR ER-240)
   (2) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)

II. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI318-11 D.9.2.2 WHERE INDICATED ON THE CONTRACT DOCUMENTS. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI318-11 D.9.2.4. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
   (1) SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
   (2) SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ESR-263)

MASONRY:

1. USE TYPE 'S' MORTAR CEMENT FOR VERTICAL AND HORIZONTAL JOINTS PER ASTM C 270.
2. ALL MASONRY GROUT SHALL CONFORM WITH ASTM C 476.
3. PROVIDE MASONRY VENEER TIES @ 24" O.C. MAX. HORIZONTALLY,
   16" O.C. MAX. VERTICALLY. TIES TO BE EITHER:
   -22GA x7/8" WIDE GALVANIZED CORRUGATED TIES
   -9GA GALVANIZED WIRE TIES



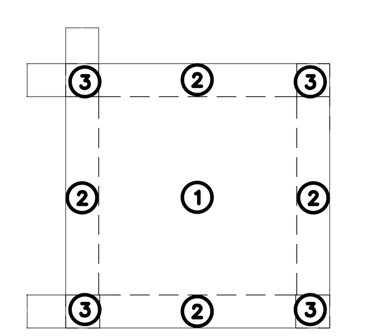
BRICK LINTEL ELEVATION

MASONRY LINTEL SCHEDULE	
CLEAR OPENING	SIZE OF ANGLE
UP TO 5'-0"	L3½x3½x¼"
5'-1" TO 7'-0"	L5x3½x¼"
7'-1" TO 8'-0"	L5x3½x3/8"
8'-1" TO 10'-0"	L6x4x3/8"
10'-1" TO 13'-0"	L8x4x7/16"
13'-1" TO 16'-6"	10x5x½" BENT PLATE
16'-7" AND OVER	REQUIRES SPECIAL ANALYSIS

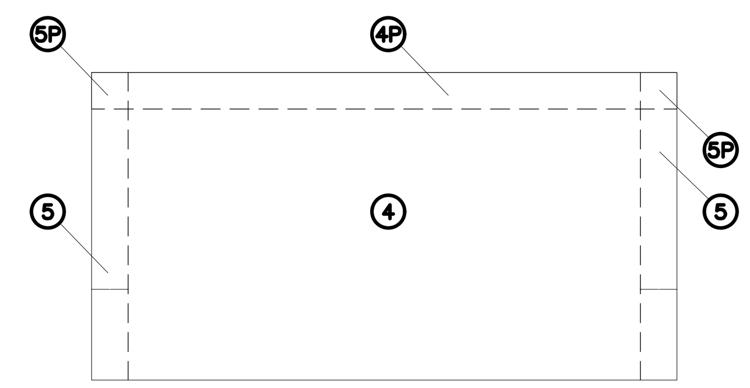
NOTE: LINTELS CARRY MASONRY ONLY. WHERE FLOORS, ROOFS, OR CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING ON EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING OF 6" ON EACH SIDE OF OPENINGS IS REQUIRED. USE THIS SCHEDULE UNLESS NOTED OTHERWISE. PAINT LINTEL TO MATCH BRICK.

WOOD HEADER SCHEDULE		
SPAN LESS THAN	LOAD BEARING WALLS	NON LOAD BEARING WALLS
3'-0"	(2)2x8	(2)2x6
4'-0"	(2)2x10	(2)2x8
5'-0"	(2)2x12	(2)2x8
7'-6"	(2)1¾"x9½" LVL	(2)2x8
9'-0"	(2)1¾"x11 7/8" LVL	(2)2x8
10'-0"	(2)1¾"x11 7/8" LVL	(2)2x10
12'-0"	(2)1¾"x14"LVL	(2)2x10
13'-0"	(2)1¾"x16"LVL	(2)2x10
14'-0"	(2)1¾"x16"LVL	(2)2x12

C / S000 WOOD HEADER SCHEDULE
SCALE: N.T.S.



FLAT ROOF (Θ<10°)



WALL ELEVATION

COMPONENTS AND CLADDING ROOF, 'ULT' EXTERNAL PRESSURES (PSF)			
ENCLOSED STRUCTURE; EXPOSURE 'B'; V_{ult} = 136 MPH			
Ae (EFFECTIVE AREA)	ZONE 1	ZONE 2	ZONE 3
Ae < 10 SQ. FT.	+16.0, −33.2	+30.4, −55.8	+30.4, −55.8
Ae = 25 SQ. FT.	+16.0, −32.1	+28.6, −47.9	+28.6, −47.9
Ae = 50 SQ. FT.	+16.0, −31.3	+27.3, −42.0	+27.3, −42.0
Ae > 100 SQ. FT.	+16.0 −30.4	+25.9, −36.1	+25.9, −36.1

COMPONENTS AND CLADDING WALL, 'ULT' EXTERNAL PRESSURES (PSF)			
ENCLOSED STRUCTURE; EXPOSURE 'B'; V_{ult} = 136 MPH			
Ae (EFFECTIVE AREA)	ZONE 4	ZONE 5	ZONE 4P & 5P
Ae < 10 SQ. FT.	+30.4, −33.0	+30.4, −40.6	+30.4, −55.8
Ae = 50 SQ. FT.	+27.3, −29.8	+27.3, −34.3	+27.3, −42.0
Ae = 200 SQ. FT.	+24.6, −27.1	+24.6, −28.9	+24.6, −36.1
Ae > 500 SQ. FT.	+22.8, −25.4	+22.8, −25.4	+22.8, −36.1

NOTES:

1. a = 6.8 ft
2. INTERPOLATION MAY BE UTILIZED FOR EFFECTIVE AREAS THAT OCCUR BETWEEN VALUES SHOWN IN THE TABLE.
3. PLUS AND MINUS SIGN INDICATES THE PRESSURE ACTING TOWARDS AND AWAY FROM THE SURFACES, RESPECTIVELY.
4. FORCES AND DIAGRAMS ARE BASED ON THE IBC 2012 / ASCE 7-10.

A / S000 C&C WIND ZONE DIAGRAMS & PRESSURES
SCALE: N.T.S.

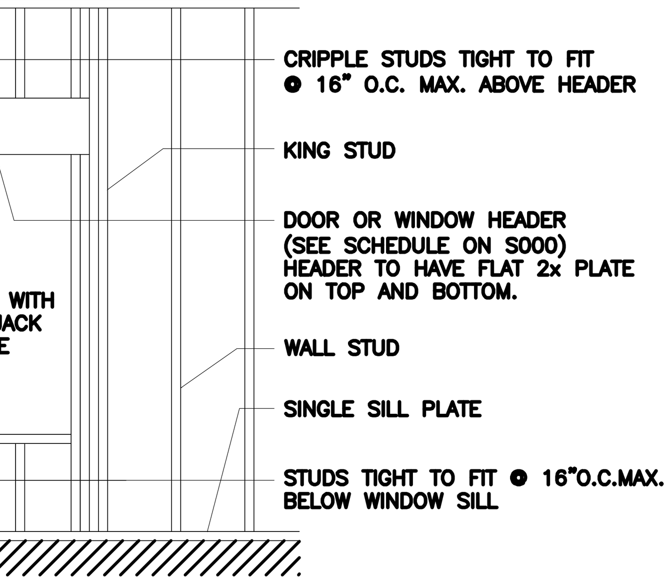
WOOD STRUCTURAL PANEL ROOF SHEATHING & NAILING SCHEDULE			ROOF FASTENING ZONES(c)		
			①	②	③
SHEATHING THICKNESS	NAILS	PANEL LOCATION	FASTENING SCHEDULE (INCHES ON CENTER)		
½" OR LESS	8d COMMON	PANEL EDGE(a)	6	3(b)	3(b)
		PANEL FIELD	6	6(b)	6(b)
19/32" OR GREATER	10d COMMON	PANEL EDGE(a)	6	3(b)	3(b)
		PANEL FIELD	6	6(b)	6(b)

NOTES:
(a) EDGE SPACING ALSO APPLIES OVER ROOF FRAMING AT GABLE END WALLS.
(b) USE RING-SHANK NAILS IN THIS ZONE.
(c) ROOF FASTENING ZONES CORRESPOND TO WIND ZONE DIAGRAM SHOWN ON A/S-0.0.

B / S000 TYP. ROOF FASTENING SCHEDULE
SCALE: N.T.S.

ABBREVIATION (ALPHABETIZED):

A.B. = ANCHOR BOLTS
C.J. = CONTROL JOINT
C.I.P.= CAST IN PLACE
CONC. = CONCRETE
CONT. = CONTINUOUS
E.O.C. = EDGE OF CONCRETE
E.W. = EACH WAY
EXP. = EXPANSION
EXT. = EXTERIOR
F.F.E.= FINISH FLOOR ELEVATION
FLR. = FLOOR
FTG. = FOOTING
GYP. = GYPSUM BOARD
HDR. = HEADER
HORZ. = HORIZONTAL
INT. = INTERIOR
MAX. = MAXIMUM
MIN. = MINIMUM
O.C. = ON CENTER
P.T. = PRESSURE TREATED
REINF = REINFORCEMENT
SIM. = SIMILAR
S.O.G. = SLAB ON GRADE
SQ. = SQUARE
T&B = TOP & BOTTOM
U.N. = UNLESS NOTED
U.N.O. = UNLESS NOTED OTHERWISE
VERT.= VERTICAL
W.W.M = WELDED WIRE MESH



JACK/KING STUD SCHEDULE		
STUDS	JACK STUD	KING STUD
(5) GANGED STUDS	(3) STUDS	(2) STUDS
(4) GANGED STUDS	(2) STUDS	(2) STUDS
(3) GANGED STUDS	(2) STUDS	(1) STUD

D / S000 TYP. FRAMING AT OPENING
SCALE: N.T.S.

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REVIEWED FOR CODE COMPLIANCE

ARCHITECT OF RECORD:
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ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:
GEORGIA REGISTERED No. PE034366 PROFESSIONAL ENGINEER WALDEMAR E DEL VALLE
8/26/2025

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
STRUCTURAL NOTES

PROJECT NO: 24022

S000

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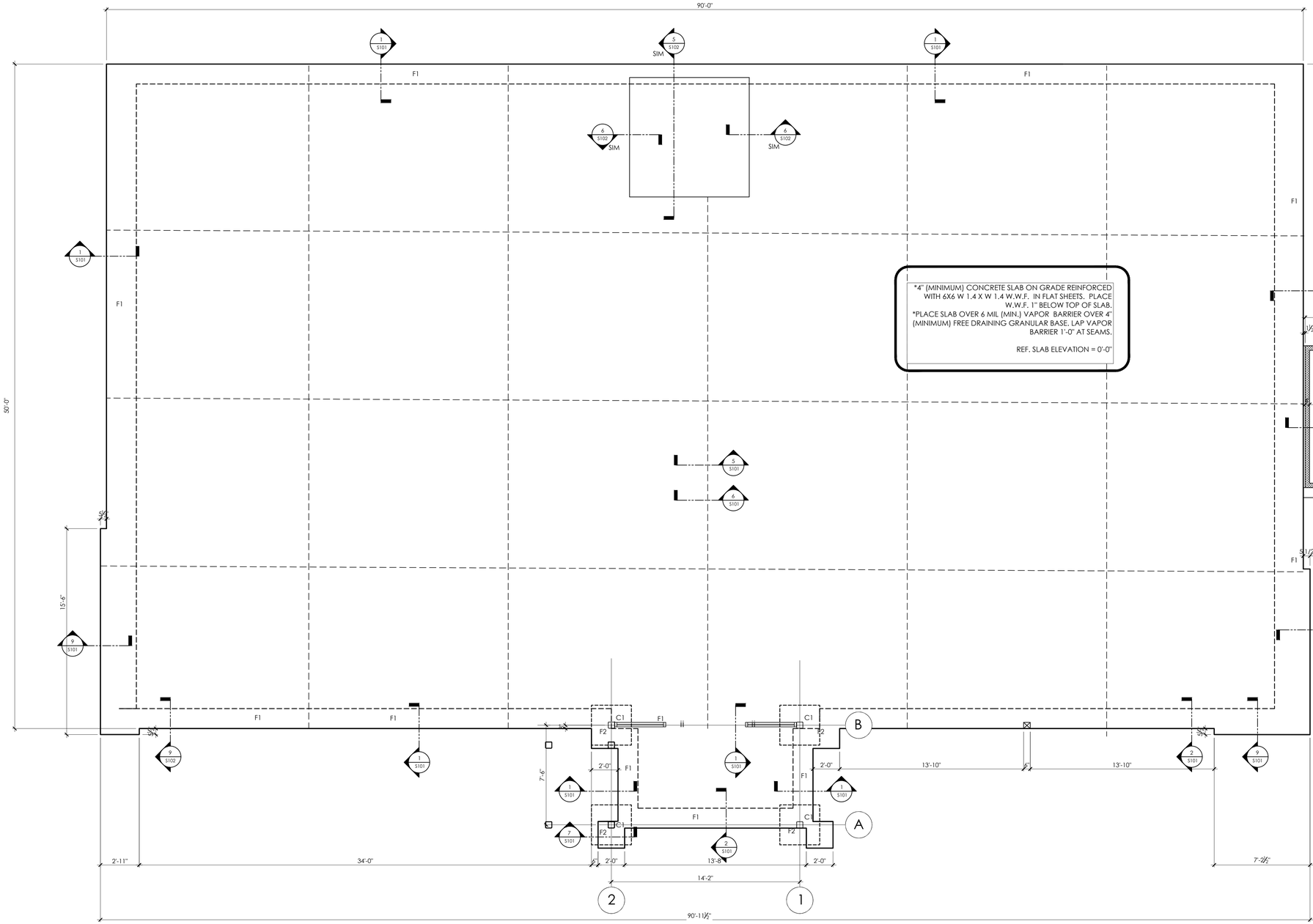
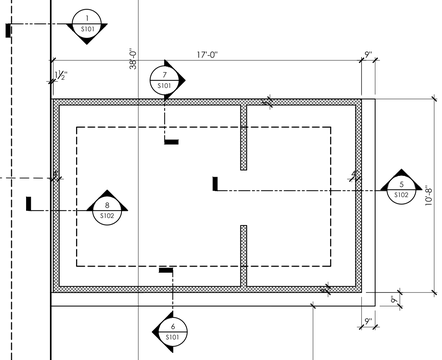


FOUNDATION PLAN 1/4"=1'-0" (1 / S100)



COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	LOCATION
C1	HSS 6x6x3/8	SEE DET. 7/S101	VESTIBULE COLUMNS
C2	6x6 SYP	W/ SIMPSON ABU66Z BASE	STOREFRONT

FOOTING SCHEDULE				
MARK	SIZE	THK.	REINFORCEMENT	REMARKS
F1	1'-6" CONT.	18"	(2) #4 CONT.	T/FTG= +0'-0"
F2	3'-6"x 3'-6"	18"	(4) #5 EA. WAY	T/FTG= -1'6"

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SHEET TITLE:

FOUNDATION PLAN

PROJECT NO: 24022

S100

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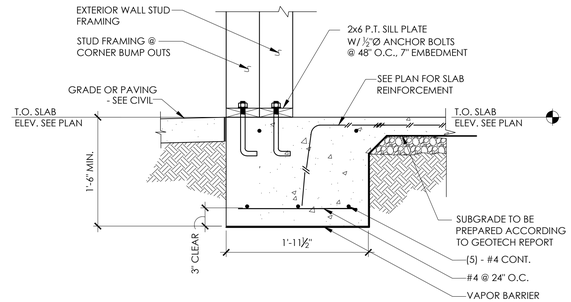
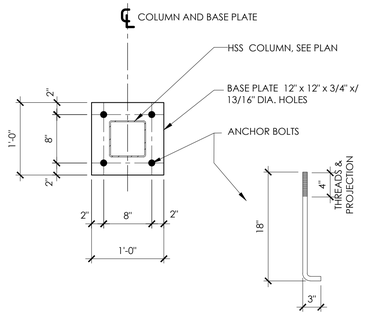
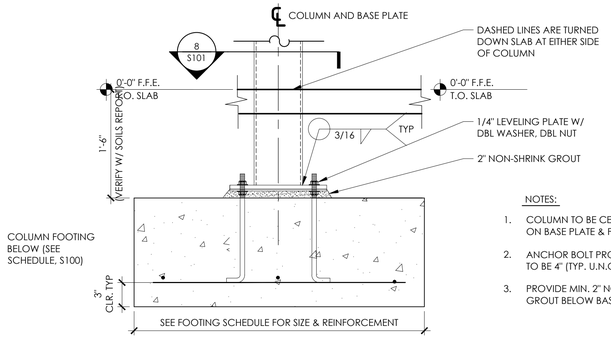


9 S101 **FOOTING @ CORNER BUMP OUTS**
1"=1'-0"

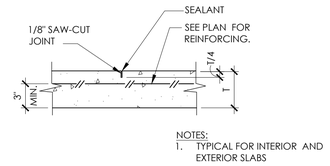


8 S101 **BASE PLATE DETAILS**
1"=1'-0"



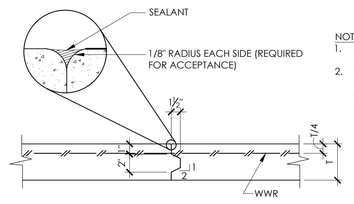
NOTES:
1. COLUMN TO BE CENTERED ON BASE PLATE & FOOTING (TYP.)
2. ANCHOR BOLT PROJECTION TO BE 4" (TYP. U.N.O.)
3. PROVIDE MIN. 2" NON-SHRINK GROUT BELOW BASE PLATE

7 S101 **VESTIBULE COLUMN FOOTING**
1"=1'-0"



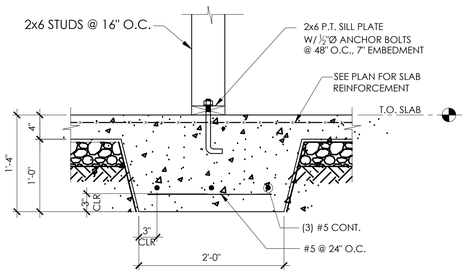
NOTES:
1. TYPICAL FOR INTERIOR AND EXTERIOR SLABS

6 S101 **TYP. FLOOR CONTROL JOINT DETAIL**
NTS

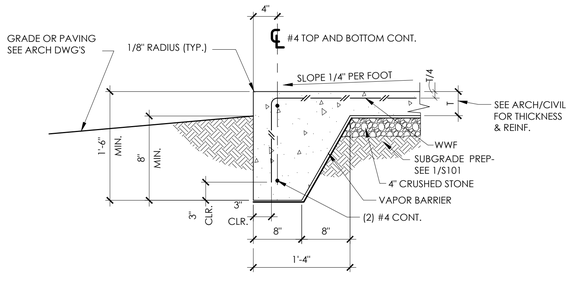


NOTES:
1. TYPICAL FOR INTERIOR AND EXTERIOR SLABS
2. SLAB REINFORCING SHALL BE TERMINATED AT JOINT. DO NOT PLACE REINFORCEMENT UNDER JOINT.

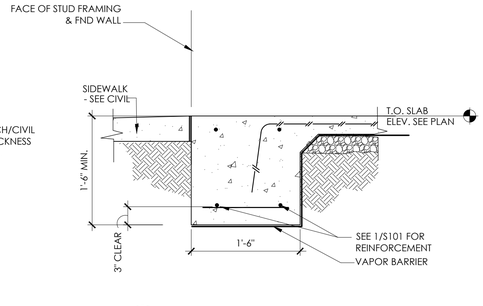
5 S101 **TYP. FLOOR CONSTRUCTION JOINT DETAIL**
NTS WHERE REQUIRED



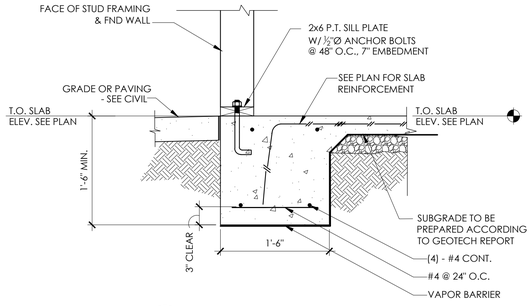
4 S101 **THICKENED SLAB UNDER SHEARWALL**
1"=1'-0" (WHEN REQUIRED)



3 S101 **SIDEWALK EDGE DETAIL**
1"=1'-0"



2 S101 **DETAIL @ DOORS**
1"=1'-0"



1 S101 **TYP. WALL FOOTING**
1"=1'-0"

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S101

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REVIEWED FOR CODE COMPLIANCE
Review of the plans and specifications by Georgia Department of Community Affairs does not relieve the architect or engineer of responsibility of those plans shall not be interpreted to be such and that no reference to this review shall be made in any public statement by the architect or engineer.
Building Authority: ECJC(GA)(GAMC) FPA No: FP-2025-

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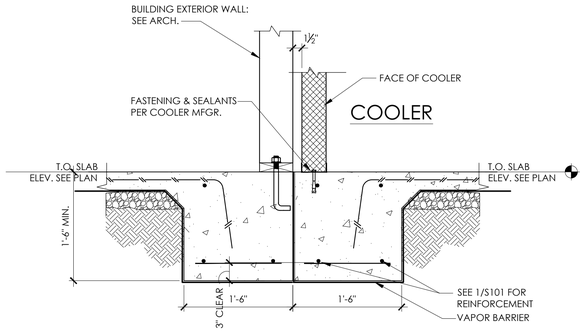
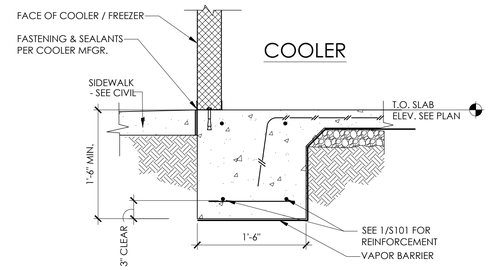
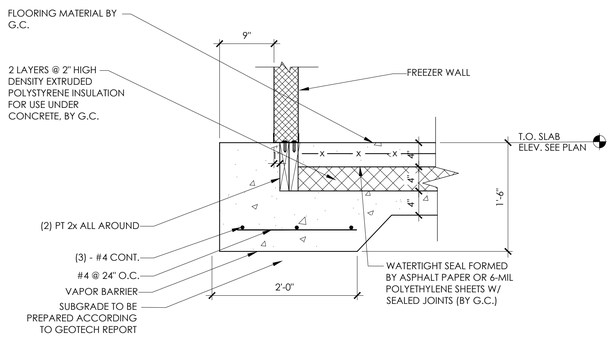


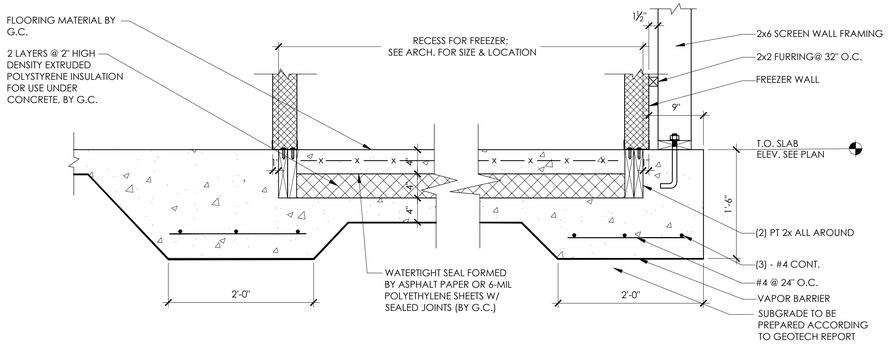
8 S102 EXTERIOR COOLER SLAB
1"=1'-0"



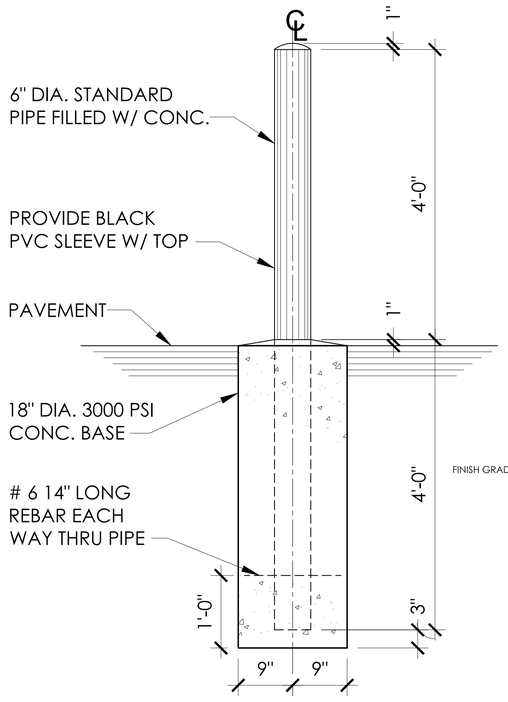
7 S102 EXTERIOR COOLER SLAB
1"=1'-0"



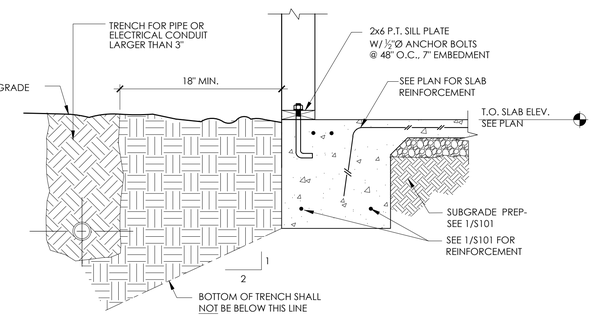
6 S102 SECTION AT RECESS FOR FREEZER
1"=1'-0"



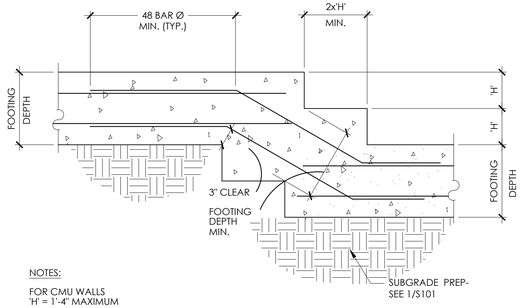
5 S102 SECTION AT RECESS FOR FREEZER
1"=1'-0"



4 S102 BOLLARD DETAIL
3/4"=1'-0"



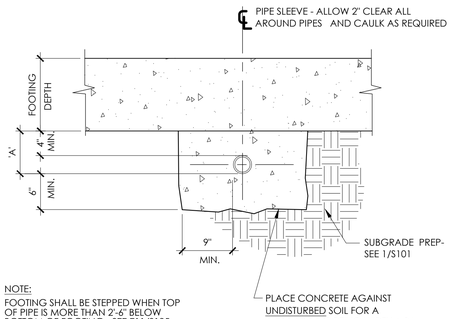
3 S102 TYP. DETAIL W/ PIPES PARALLEL TO FOOTING
1"=1'-0" WHERE REQUIRED



NOTES:
FOR CMU WALLS
'H' = 1'-4" MAXIMUM

REINFORCING SHALL MATCH SIZE AND SPACING
OF REINF. IN ADJACENT FOOTING SECTION
(MIN. REINF. (3) #5 TOP AND BOTTOM)

2 S102 STEPPED FOOTING
NTS (WHEN REQ'D)



NOTE:
FOOTING SHALL BE STEPPED WHEN TOP
OF PIPE IS MORE THAN 2'-6" BELOW
BOTTOM OF FOOTING - SEE E11/S105

1 S102 TYP. DETAIL W/ PIPES PERPENDICULAR TO FOOTING
1"=1'-0" WHERE REQUIRED

ARCHITECT OF RECORD:

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ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED No. PEO34366 PROFESSIONAL ENGINEER WALDEMAR E DEL VALLE

8/26/2025

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3450 Acworth Due West Road
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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

FOUNDATION DETAILS

PROJECT NO: 24022

S102

DEL VALLE + MCNEIL
structural engineers
6065 ROSWELL ROAD - SUITE 970
ATLANTA, GA 30328
404.369.0058 | dvmstructural.com

REVIEWED FOR CODE COMPLIANCE
Review of these plans and specifications does not relieve the owner, architect, engineer, contractor, or their agents of their responsibility for the accuracy and adequacy of their plans which will not be corrected by such review and for which we do not assume responsibility. Review is only for general conformance with the design concept of the project and general compliance with the information given in the construction documents.
Reviewed By: Brad Rhodes, ICC# 4144346 Date: 09-19-2025

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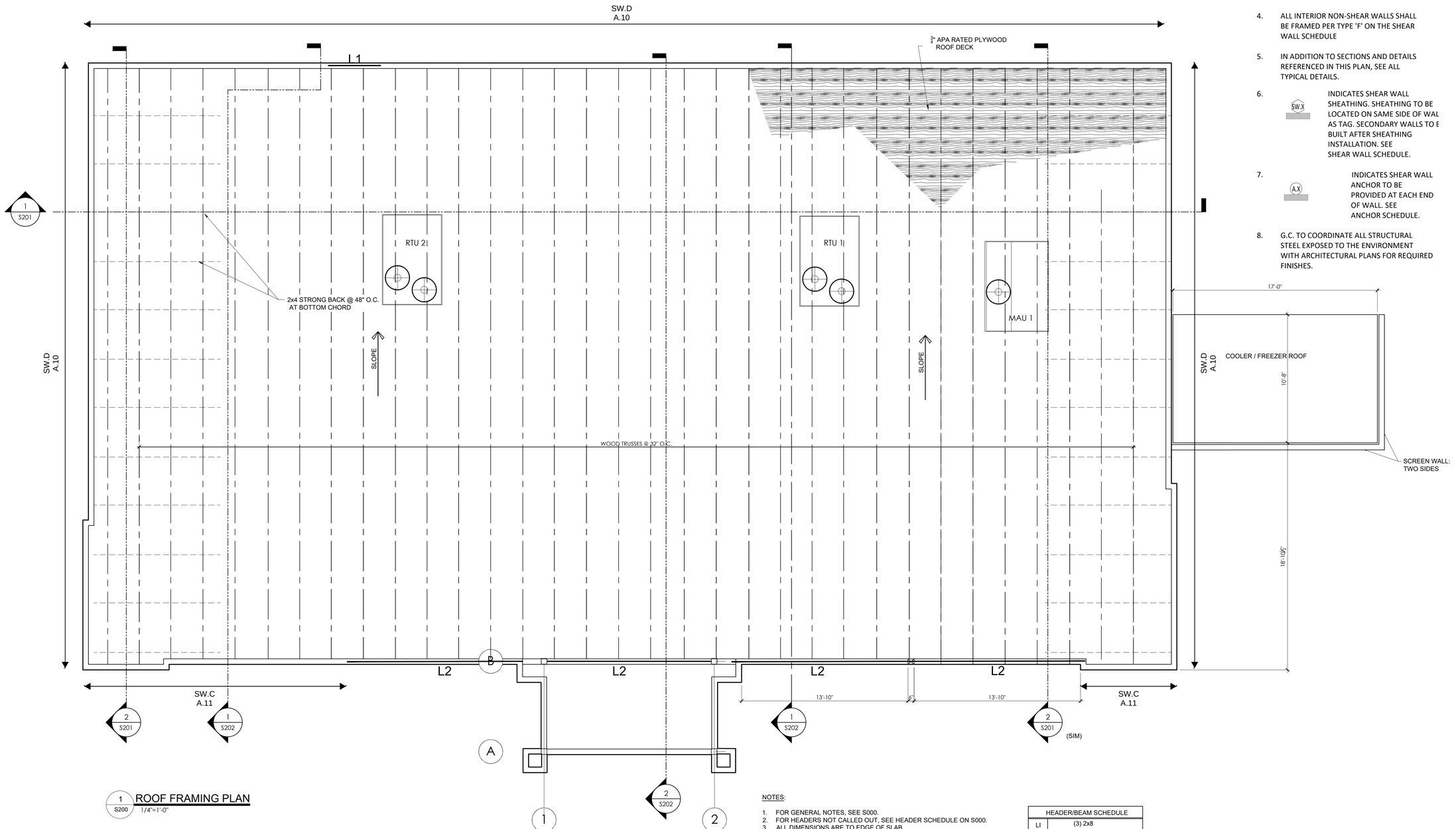

1 S200 **ROOF FRAMING PLAN**
1/4"=1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE S000.
2. FOR HEADERS NOT CALLED OUT, SEE HEADER SCHEDULE ON S000.
3. ALL DIMENSIONS ARE TO EDGE OF SLAB.
   EDGE OF SLAB = FACE OF WALL.
4. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
5. ARCH. BACKGROUNDS ARE SHOWN FOR GENERAL INFORMATION ONLY. SEE ARCH. FOR EXACT WALL LOCATIONS, DIMENSIONING AND OTHER INFORMATION NOT SHOWN.

HEADER/BEAM SCHEDULE	
L1	(3) 2x8
L2	(3) 1 ¾"x16 LVL

STUD AND SHEAR WALL NOTES:

1. FINISH FLOOR ELEVATION: 0'-0".
2. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS TO BE 2X6 @ 16" OC
3. ALL EXTERIOR NON-SHEAR WALLS SHALL BE FRAMED PER TYPE 'D' ON THE SHEAR WALL SCHEDULE
4. ALL INTERIOR NON-SHEAR WALLS SHALL BE FRAMED PER TYPE 'F' ON THE SHEAR WALL SCHEDULE
5. IN ADDITION TO SECTIONS AND DETAILS REFERENCED IN THIS PLAN, SEE ALL TYPICAL DETAILS.
6. SW.X — INDICATES SHEAR WALL SHEATHING. SHEATHING TO BE LOCATED ON SAME SIDE OF WAL AS TAG. SECONDARY WALLS TO E BUILT AFTER SHEATHING INSTALLATION. SEE SHEAR WALL SCHEDULE.
7. A.X — INDICATES SHEAR WALL ANCHOR TO BE PROVIDED AT EACH END OF WALL. SEE ANCHOR SCHEDULE.
8. G.C. TO COORDINATE ALL STRUCTURAL STEEL EXPOSED TO THE ENVIRONMENT WITH ARCHITECTURAL PLANS FOR REQUIRED FINISHES.

ARCHITECT OF RECORD:

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SEAL:

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CONVENIENCE STORE

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C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

ROOF FRAMING PLAN

PROJECT NO: 24022

S200

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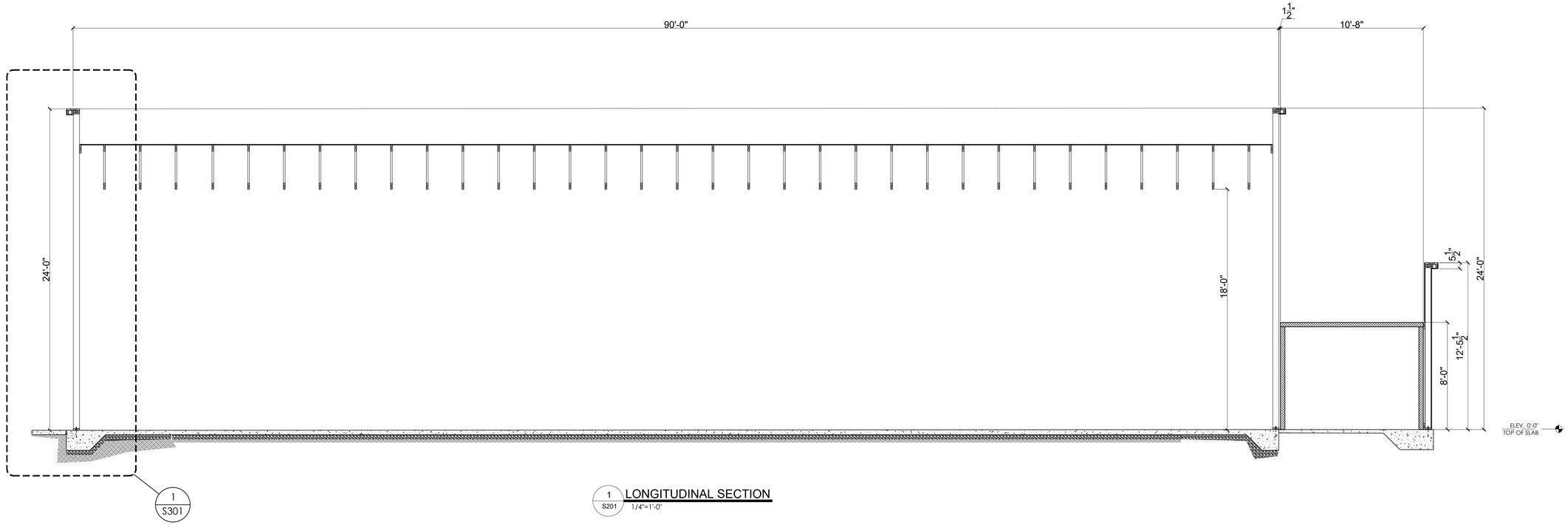
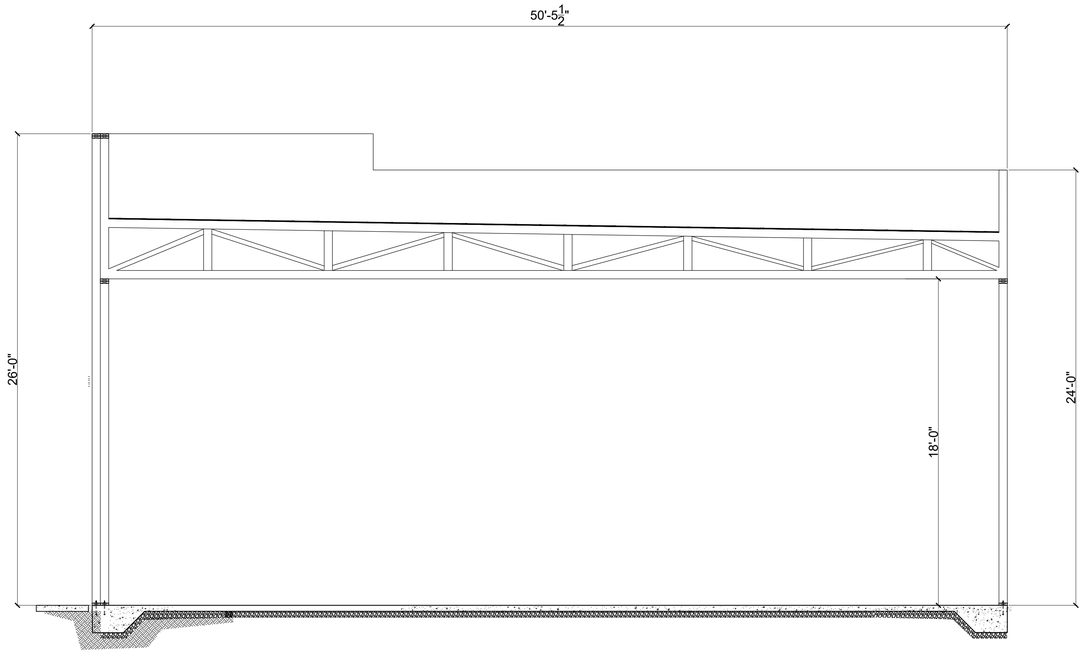
ATLANTA, GA 30328
404.369.0058 | dvmstructural.com

REVIEWED FOR CODE COMPLIANCE
HENRY COUNTY



1 S201 **LONGITUDINAL SECTION**
1/4"=1'-0"



2 S201 **CROSS SECTION**
1/4"=1'-0"

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McDonough, GA 30253

SHEET TITLE:

BUILDING SECTIONS

PROJECT NO: 24022

S201

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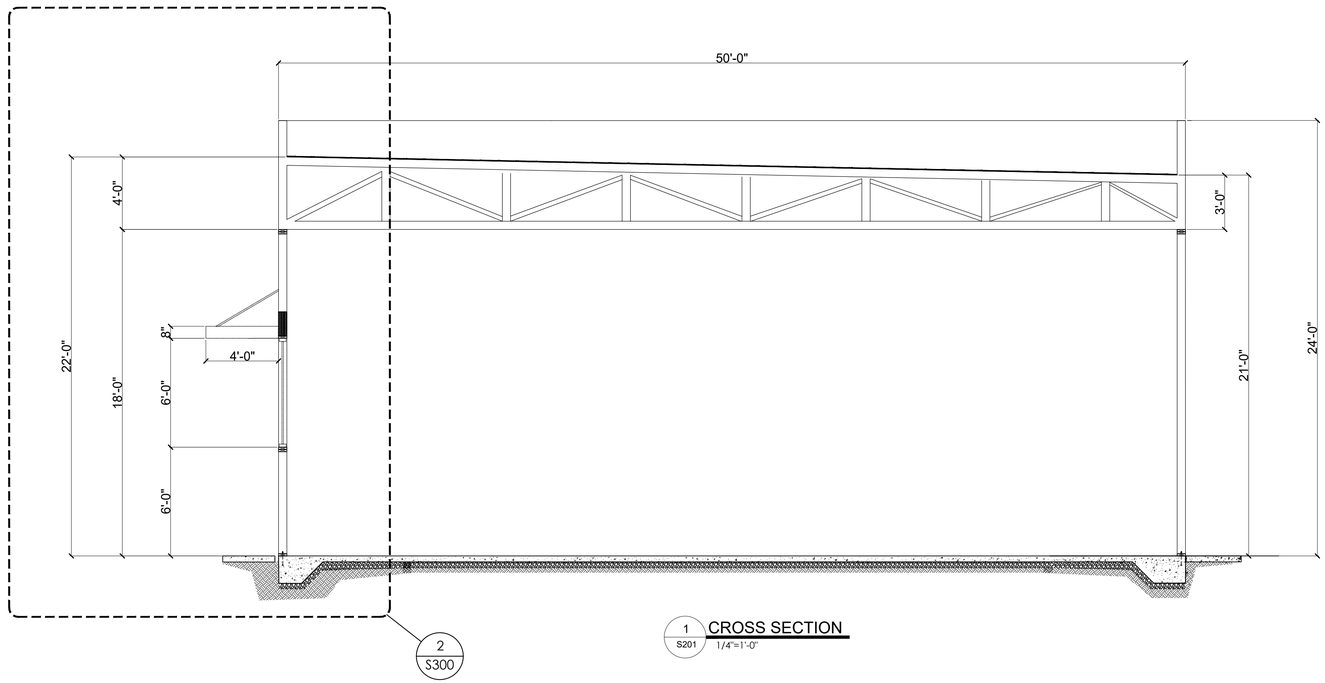
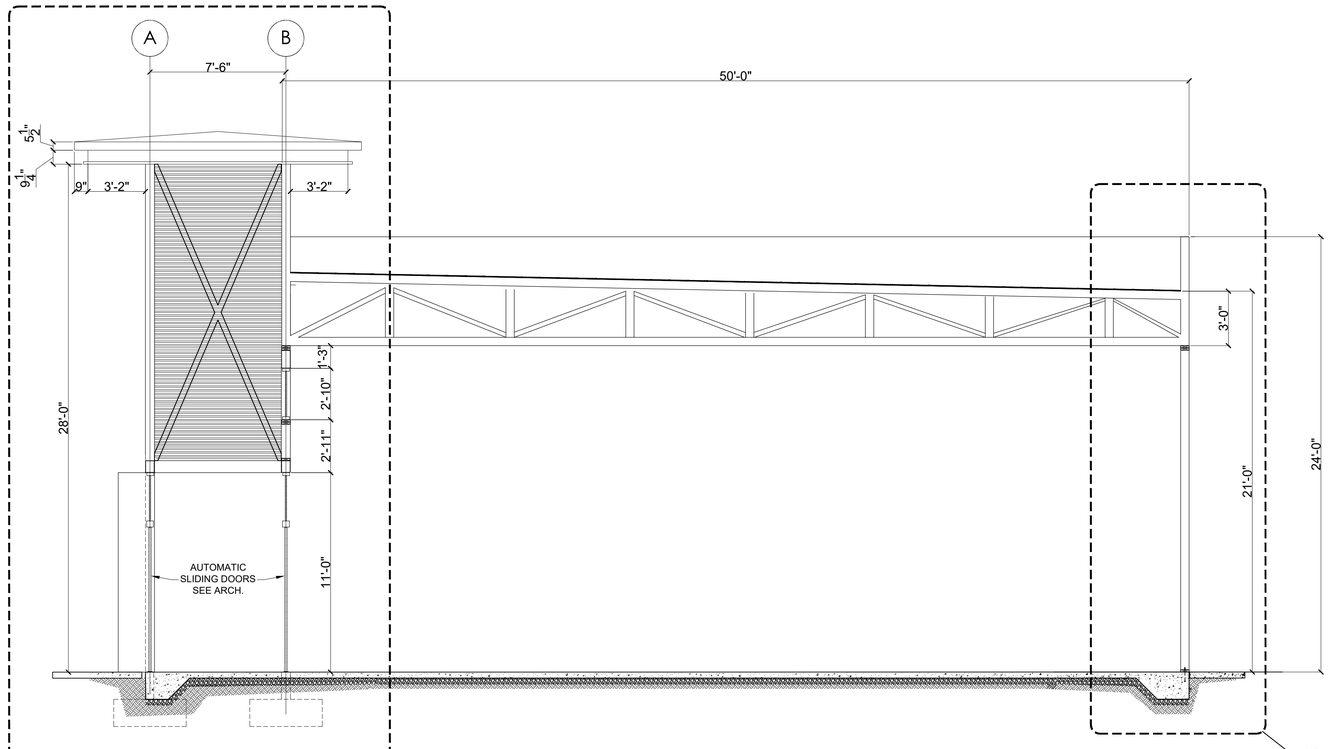
REVIEWED FOR CODE COMPLIANCE
Approved: The plans and specifications comply with the City of McDonough Code of Ordinances. All work must be performed to meet the standards of the City of McDonough Code of Ordinances whether detailed or not on the plans and specifications. Any deviations must be approved in writing by the Building Official.
Building Official(s) - All Jurisdictions Date: Mar 20 2025
Water Resource Manager Date:



2 S300

1 S201 CROSS SECTION 1/4"=1'-0"



2 S202 CROSS SECTION THRU VESTIBULE 1/4"=1'-0"

1 S300

2 S301

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ELLIJAY, GEORGIA 30540

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CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

BUILDING SECTIONS

PROJECT NO: 24022

S202

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REVIEWED FOR CODE COMPLIANCE
Approved: The plans and/or specifications listed have been reviewed and approved. All work shall conform to the approved plans and specifications and any changes must be reviewed and approved by the Building Official prior to construction.
Ashley Roebuck, ICC#10162821 Date: May 23 2025
Plan Review Chief

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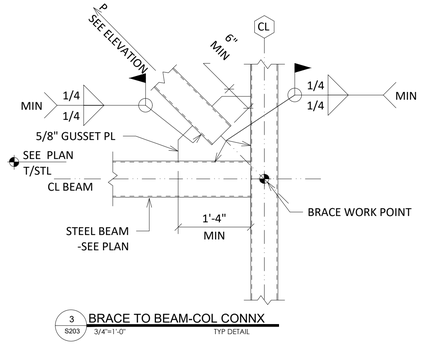
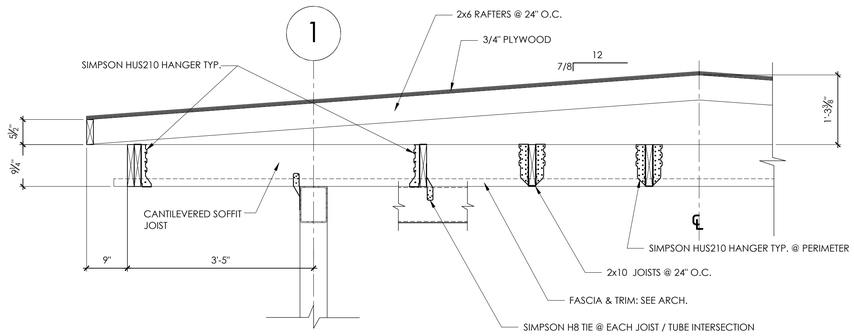
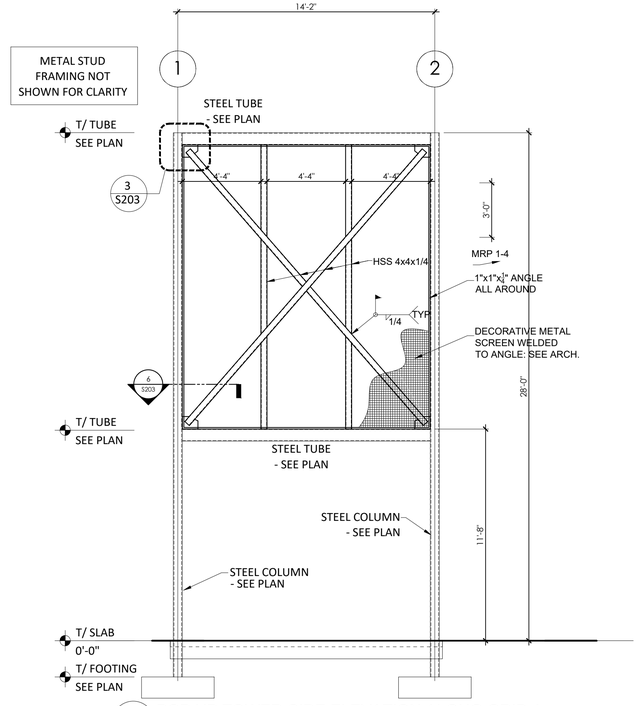


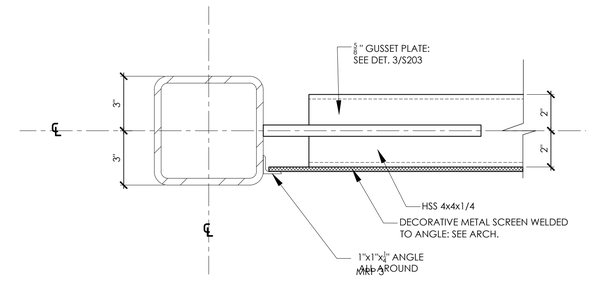
3 S203 BRACE TO BEAM-COL CONNX
3/4"=1'-0" TYP DETAIL



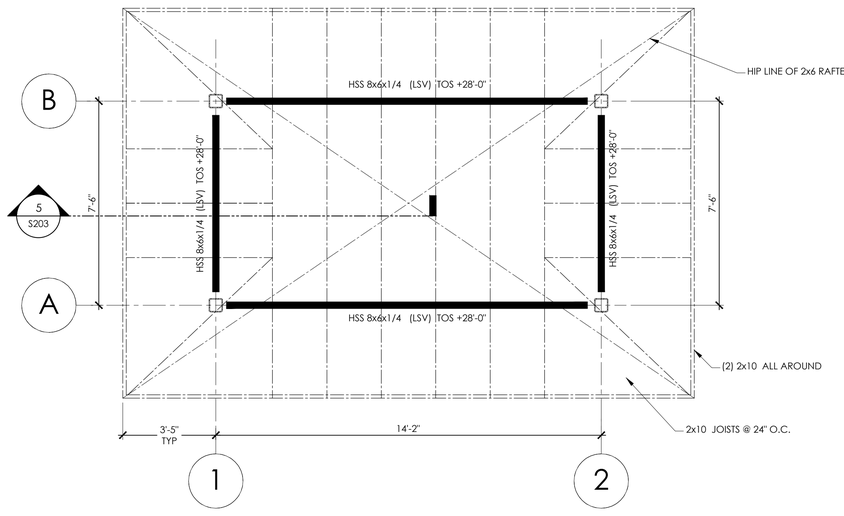
5 S203 TOWER ROOF FRAMING DETAIL
3/4"=1'-0"



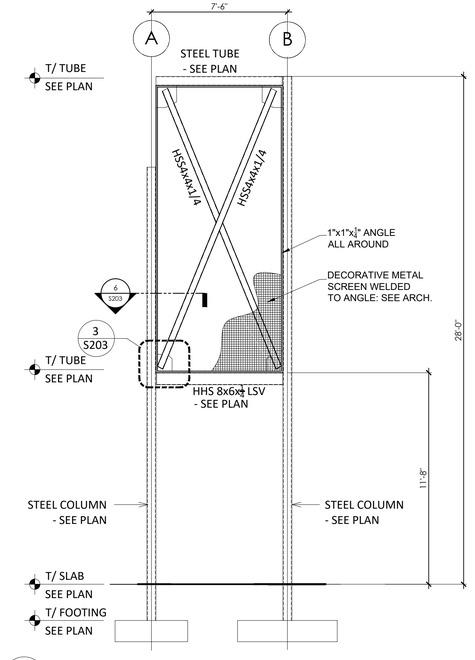
2 S203 POP UP TOWER-SIDE ELEVATION ALONG GRID A
1/4"=1'-0"



6 S203 BRACE TO BEAM-COL CONNX
3"=1'-0"



4 S203 TOWER FRAMING PLAN
3/8"=1'-0"



1 S203 POP UP TOWER-SIDE ELEVATION ALONG GRID 1 & 2
1/4"=1'-0"

ARCHITECT OF RECORD:

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ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED No. PE034366 PROFESSIONAL ENGINEER WALDEMAR E DEL VALLE

8/26/2025

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08-22-2025	PERMIT SET

DRAWN BY: DS

CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

TOWER DETAILS

PROJECT NO: 24022

S203

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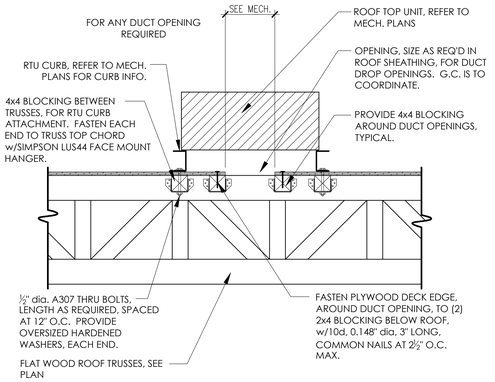
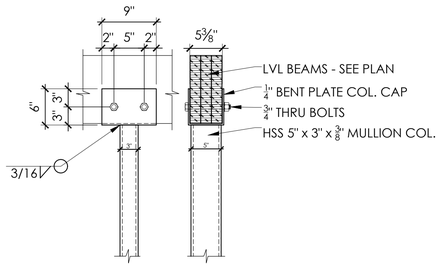
ATLANTA, GA 30328
404.369.0058 | dvmstructural.com

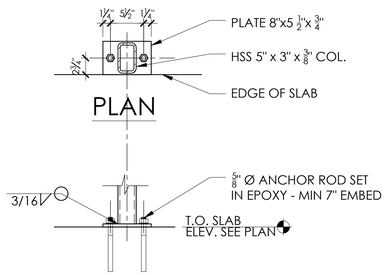
REVIEWED FOR CODE COMPLIANCE
Review of these documents by Authority Having Jurisdiction is only for general conformance with the applicable codes, ordinances and regulations. The responsibility for the accuracy and compliance of these documents shall rest exclusively with the owner and his agent and not on the Authority Having Jurisdiction or any of its employees.
Authority Having Jurisdiction: [illegible] Date: 09/19/2025
Plan Review Remarks: [illegible]



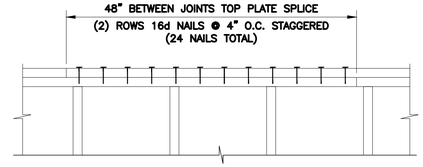
11 S204 TYP RTU ATTACHMENT
3/4" = 1'-0"



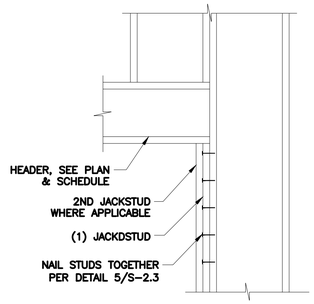
10 S204 STOREFRONT COLUMN TOP PLATE
1" = 1'-0"



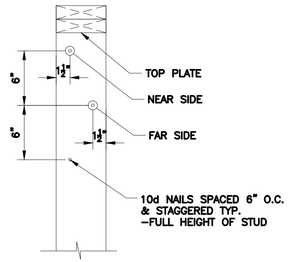
9 S204 STOREFRONT COLUMN BASE
1" = 1'-0"



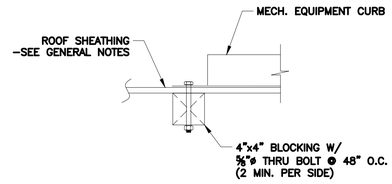
8 S204 TYP TOP PLATE SPLICE DETAIL
1" = 1'-0"



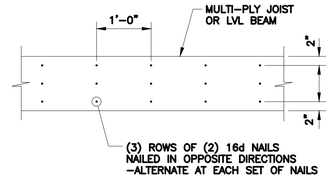
7 S204 JACK STUD DETAIL
3/4" = 1'-0"



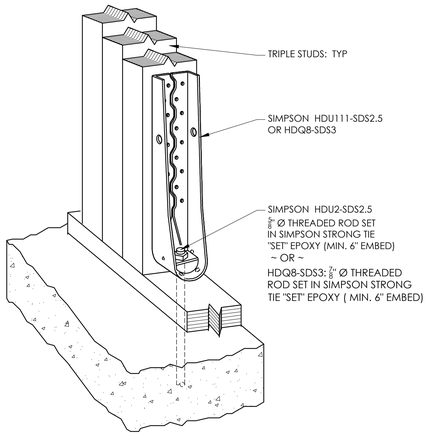
6 S204 TYP GANG STUD NAILING
1 1/2" = 1'-0"



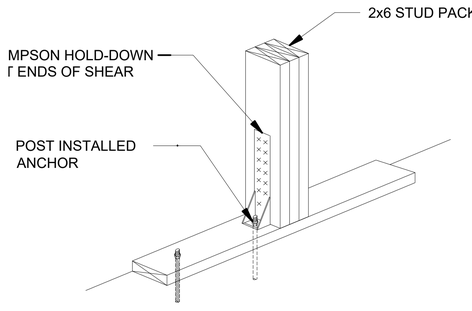
5 S204 MECH. CURB BLOCKING DETAIL
1 1/2" = 1'-0"



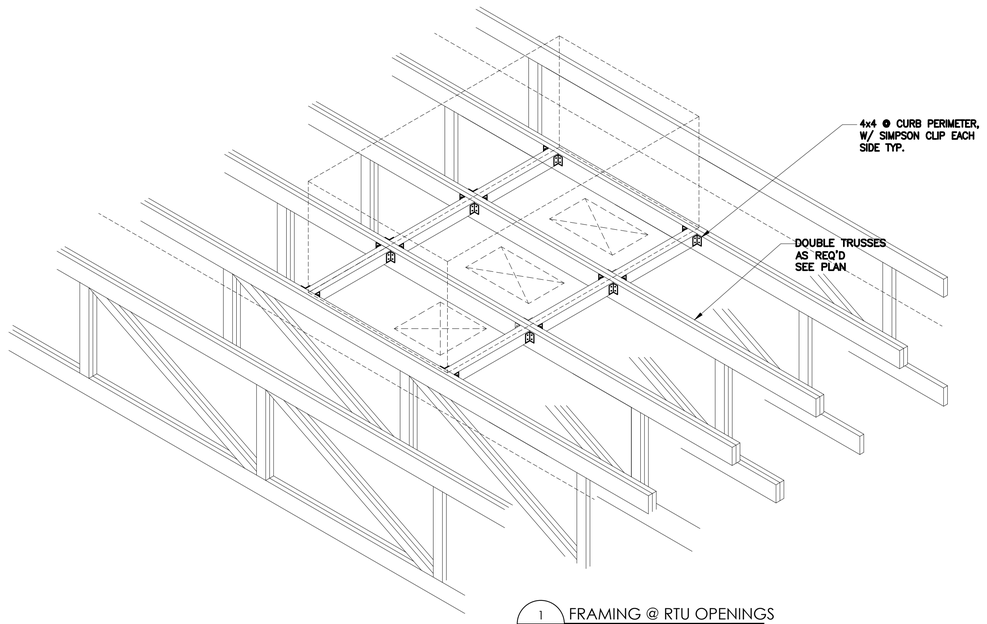
4 S204 MULTI - PLY NAILING DETAIL
3/4" = 1'-0"



3 S204 SHEAR WALL ANCHOR DETAIL
NTS



2 S204 TYP SHEAR WALL HOLD DOWN
NTS



1 S204 FRAMING @ RTU OPENINGS
1/2" = 1'-0"

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ARCHITECT OF RECORD:

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ARCHITECT

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SEAL:

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Hwy 155 @ Hunters Chase Dr.
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SHEET TITLE:
ROOF FRAMING DETAILS

PROJECT NO: 24022

S204

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404.369.0058 | dvmstructural.com

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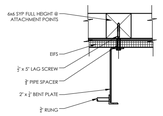
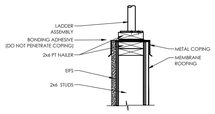
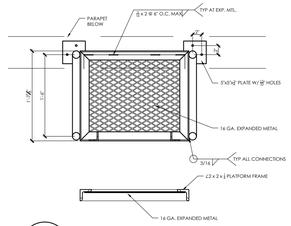


5 S205 LADDER ATTACHMENT
3/4" = 1'-0"



4 S205 PARAPET ATTACHMENT
3/4" = 1'-0"



3 S205 PLATFORM DETAIL
3/4" = 1'-0"

SHEARWALL ANCHOR SCHEDULE

	ANCHOR ID. (A.X)	ANCHOR TYPE	MIN END LENGTH (IN)	VERTICAL STUD PACK/POST[2] AT EACH END OF SHEARWALL, UNO [3]	ANCHOR CONNECTION TO STUD PACK/POST (EA ANCHOR)	FOUNDATION ANCHORAGE REQUIREMENT		ANCHOR CAPACITY (LBS)
						CIP ANCHOR BOLT	EPOXY ANCHOR BOLT	
WOOD TO WOOD	1	(1) CS20	9	(2) 2X, MIN	(16) 8d OR (14) 10d	-	-	1030
	2	(1) CS16	15	(2) 2X, MIN	(26) 8d OR (22) 10d	-	-	1705
	3	(2) CS16	15	(2) 2X, MIN	(26) 8d OR (22) 10d	-	-	3410
	4	(1) MST60	-	(3) 2X, MIN	(40) 16d	-	-	4700
	5	(1) MST72	-	(3) 2X, MIN	(54) 16d	-	-	6345
	6	(2) MST60	-	(4) 2X, MIN	(40) 16d	-	-	9400
	7	(2) MST72	-	(4) 2X, MIN	(54) 16d	-	-	12690
CONCRETE TO WOOD	8	DTT2Z	-	(2) 2X, MIN	(8) SDS 1/4" x 2 1/2" SCREWS	1/2" DIA	1/2" DIA x 8" EMBED	2105
	9	HDU4	-	(3) 2X, MIN	(10) SDS 1/4" x 2 1/2" SCREWS	5/8" DIA	5/8" DIA x 10" EMBED	3285
	10	HDU8	-	(3) 2X, MIN	(20) SDS 1/4" x 2 1/2" SCREWS	7/8" DIA	7/8" DIA x 12" EMBED	6580
	11	HDU11	-	(4) 2X, MIN	(30) SDS 1/4" x 2 1/2" SCREWS	1" DIA	1" DIA x 12" EMBED	8030
	12	HD12	-	(4) 2X, MIN	(4) 1" DIA STUD BOLT	1" DIA	1" DIA x 12" EMBED	10765
	13	HDU14	-	(5) 2X, MIN	(36) SDS 1/4" x 2 1/2" SCREWS	1" DIA	1" DIA x 12" EMBED	12375
	14	HD19^	-	(5) 2X, MIN	(5) 1" DIA STUD BOLT	1 1/4" DIA	1" DIA x 12" EMBED	15270
	15	BP1	-	(4) 2X, MIN	(4) 1" DIA STUD BOLT	SEE 5/S4-00	SEE 5/S4-00	-

NOTES
1. ANCHOR TYPE REFERS TO SIMPSON STRONG TIE HARDWARE SPECIFICATIONS. ALLOWABLE LOADS HAVE BEEN INCREASED FOR WIND OR SEISMIC LOADS.
2. WIDTH OF VERTICAL COLUMNS AT END OF SHEARWALL TO MATCH WALL STUD SIZES. COORDINATE NUMBER OF STUDS REQUIRED FOR BUILT-UP COLUMN W/ SCHEDULE.
3. ALL VERTICAL COLUMN MEMBERS SHALL BE FASTENED TOGETHER PER BUILT-UP STUD CONSTRUCTION.
4. EPOXY SHALL BE HILTI HY-200 AND REQUIRE A MINIMUM CONCRETE EDGE DISTANCE OF 2".
5. ALL ANCHOR BOLTS TO HAVE STANDARD NUT AND WASHER.
6. * ANCHOR REQUIREMENTS ARE PER ANCHOR. LOCATE HDU11 A MINIMUM OF 24" APART.
7. ^ HD 19 HOLD-DOWN CAN NOT BE INSTALLED AT SLAB CORNERS. SEE PLAN FOR ADDITIONAL REQUIREMENTS AT THESE LOCATIONS.
8. GC TO COORDINATE THICKENED SLAB FOOTINGS AT ENDS OF SHEARWALLS (WHEN REQUIRED ANCHOR EMBEDMENT + 3") EXCEEDS FOOTING THICKNESS.

SHEAR WALL ANCHOR SCHEDULE1

1/8" = 1'-0"

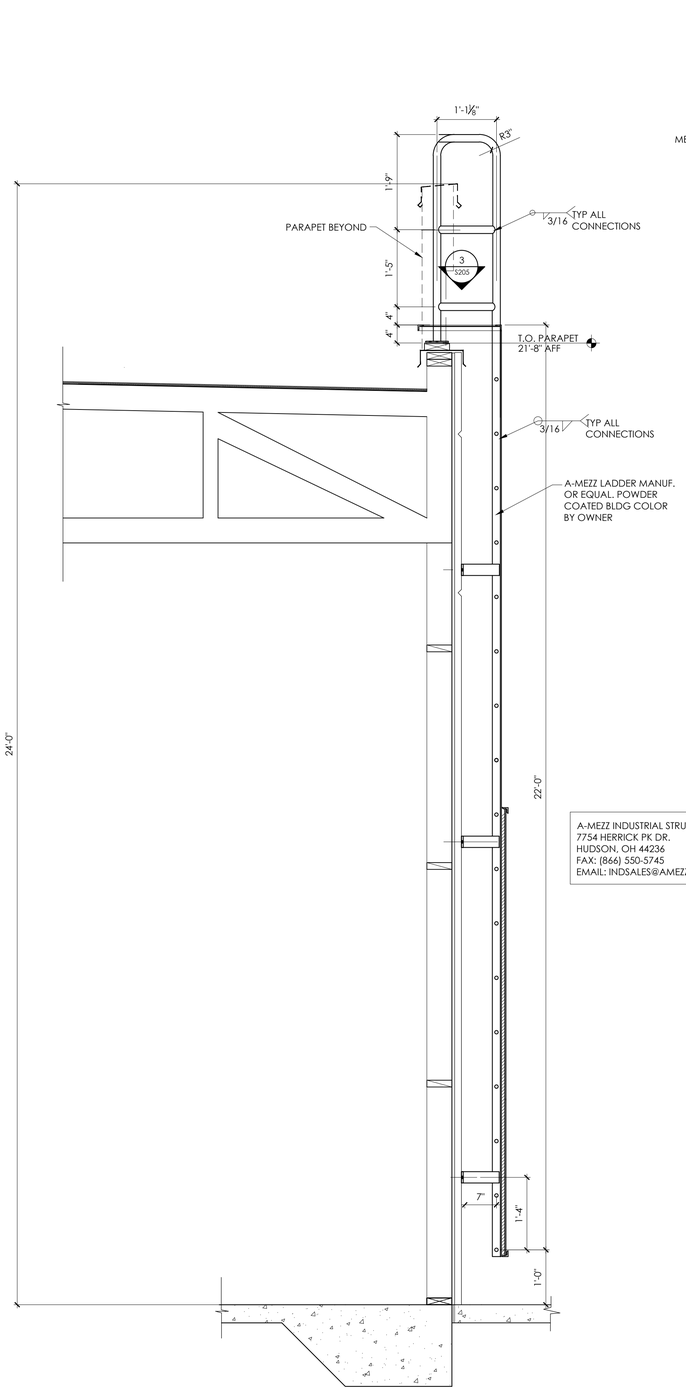
SHEARWALL TYPE SCHEDULE

SHEARWALL TYPE	SHEATHING				EDGE NAILING (2) (3) (4) (5) (9)	FIELD NAILING (2) (3) (4) (5)	BLOCKED PANEL EDGES	BASE PLATE NAILING	BASE PLATE ANCHORAGE EXTERIOR SHEARWALLS	BASE PLATE ANCHORAGE INTERIOR SHEARWALLS	
									EPOXY ANCHOR	EPOXY ANCHOR	EXPANSION ANCHOR
	15/32" (MIN) PLYWOOD OR OSB (7)	5/8" GYPSUM WALLBOARD OR GYPSUM SHEATHING	ALLOWABLE SHEAR CAPACITY (PLF)					16d NAILS (UPPER FLOOR ANCHORAGE)	THREADED ROD W/ HILTI HY-200 (3" MIN EMBED)	THREADED ROD W/ HILTI HY-200 (3" MIN EMBED)	HILTI KWIK BOLT 3 (2 1/4" MIN EMBED)
			WIND	SEISMIC							
A	*		990	660	10d @ 2" OC	10d @ 12" OC	YES	2" OC	3/4" DIA @ 18" OC	3/4" DIA @ 32" OC	5/8" DIA @ 18" OC
B	*		770	510	10d @ 3" OC	10d @ 12" OC	YES	3" OC	3/4" DIA @ 24" OC	3/4" DIA @ 42" OC	5/8" DIA @ 24" OC
C	*		590	395	10d @ 4" OC	10d @ 12" OC	YES	4" OC	5/8" DIA @ 24" OC	5/8" DIA @ 36" OC	5/8" DIA @ 32" OC
D	*		400	265	10d @ 6" OC	10d @ 12" OC	YES	6" OC	1/2" DIA @ 24" OC	1/2" DIA @ 36" OC	1/2" DIA @ 32" OC
E		*	175	175	6d @ 4" OC	6d @ 4" OC	YES	12" OC	1/2" DIA @ 48" OC	1/2" DIA @ 48" OC	1/2" DIA @ 48" OC
F		*	145	145	6d @ 7" OC	6d @ 7" OC	YES	12" OC	1/2" DIA @ 48" OC	1/2" DIA @ 48" OC	1/2" DIA @ 48" OC

NOTES
1. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3 INCH NOMINAL OR WIDER (DOUBLE 2x MEMBERS ARE ACCEPTABLE) AND NAILS SHALL BE STAGGERED.
2. NAIL REQUIREMENT: INTERIOR 5/8" GYPSUM REQUIRED 6d COOLER NAILS (0.092" DIA, 1 7/8" LONG, 1/4" HEAD).
3. NAIL REQUIREMENT: ALL EXTERIOR SHEATHING SHALL BE FASTENED WITH CORROSION RESISTANT NAILS.
4. PROVIDE 2" MIN EDGE DISTANCE FOR ANCHOR AT SLAB EDGE.
5. ALL WOOD PANELS SHALL BE 15/32" STRUCTURAL SHEATHING. DESIGN VALUES BASED ON SPF NO. 2 SUB FRAMING SPACED AT 16" OC MAX.
6. IF 7/16" STRUCTURAL SHEATHING IS PREFERRED, SHEATHING MUST BE ORIENTED PERPENDICULAR TO STUDS.
7. SEE TYPICAL DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION.
8. SHEATHING SHALL BE CONTINUOUS ALONG SHEARWALLS, SEPARATION WALLS, AND EXTERIOR WALLS.
9. ANCHORS IN CONTACT WITH PRE-TREATED WOOD OR EXPOSED ANCHORS SHALL BE MECHANICALLY OR HOT-DIPPED GALVANIZED.
10. SHEARWALL TYPES 'A' & 'B' SHALL HAVE STAGGERED EDGE NAILING.
11. ALL WALL ANCHORS TO HAVE STANDARD NUT AND WASHER.
12. GC OPTION: 1/2" DIA x 7" ANCHOR BOLTS WITH 2" HOOKS MAY BE USED AT SHEARWALL TYPES C, D, E, & F.
13. GC OPTION: 5/8" DIA x 7" ANCHOR BOLTS WITH 2" HOOKS MAY BE USED AT SHEARWALL TYPES A & B.

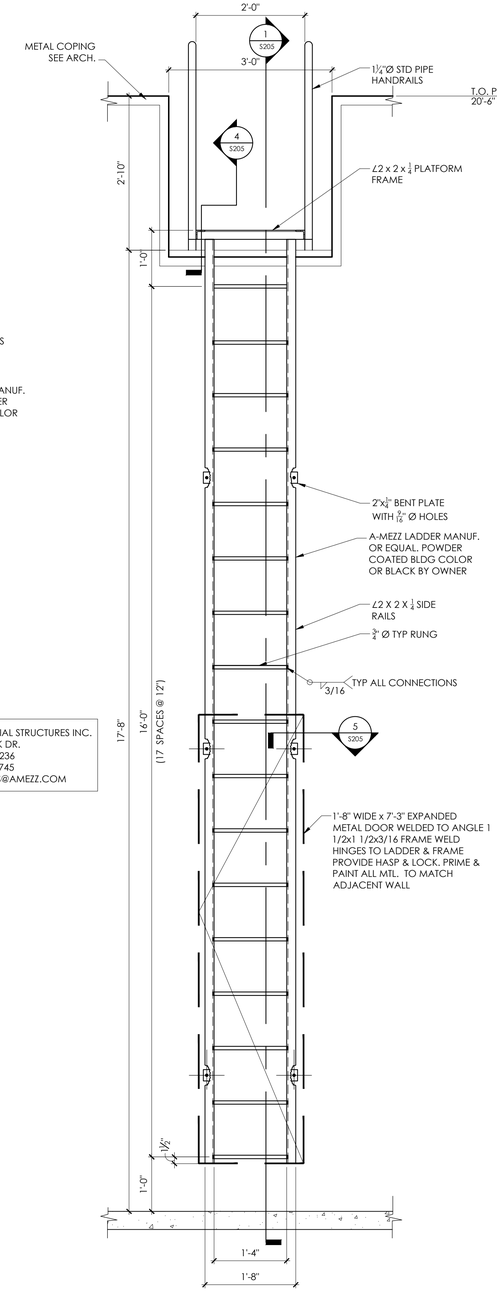
SHEAR WALL TYPE SCHEDULE

1/8" = 1'-0"



1 S205 SECTION @ LADDER
3/4" = 1'-0"

A-MEZZ INDUSTRIAL STRUCTURES INC.
7754 HERRICK PK DR.
HUDSON, OH 44236
FAX: (866) 550-5745
EMAIL: INDSALES@AMEZZ.COM



2 S205 LADDER ELEVATION
3/4" = 1'-0"

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ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED No. PE034366 PROFESSIONAL ENGINEER WALDEMAR E DEL VALLE

8/26/2025

M R P DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08-22-2025	PERMIT SET

DRAWN BY: DS
CHK'D BY: MMCN

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

LADDER DETAILS

PROJECT NO: 24022

S205

DEL VALLE + MCNEIL
structural engineers
6065 ROSWELL ROAD - SUITE 970
ATLANTA, GA 30328
404.369.0058 | dvmstructural.com

REVIEWED FOR CODE COMPLIANCE
Review of these documents is only for general conformance with the design concept of the project and general compliance with the International Building Code and the referenced standards identified therein. Jurisdictional approval of these documents and any deviations from the approved documents must be obtained prior to beginning construction. The building official, design professional in responsible charge or their duly authorized representatives may visit the site to observe the work. It is the responsibility of the permit holder to notify the building official when construction is ready for each required inspection.

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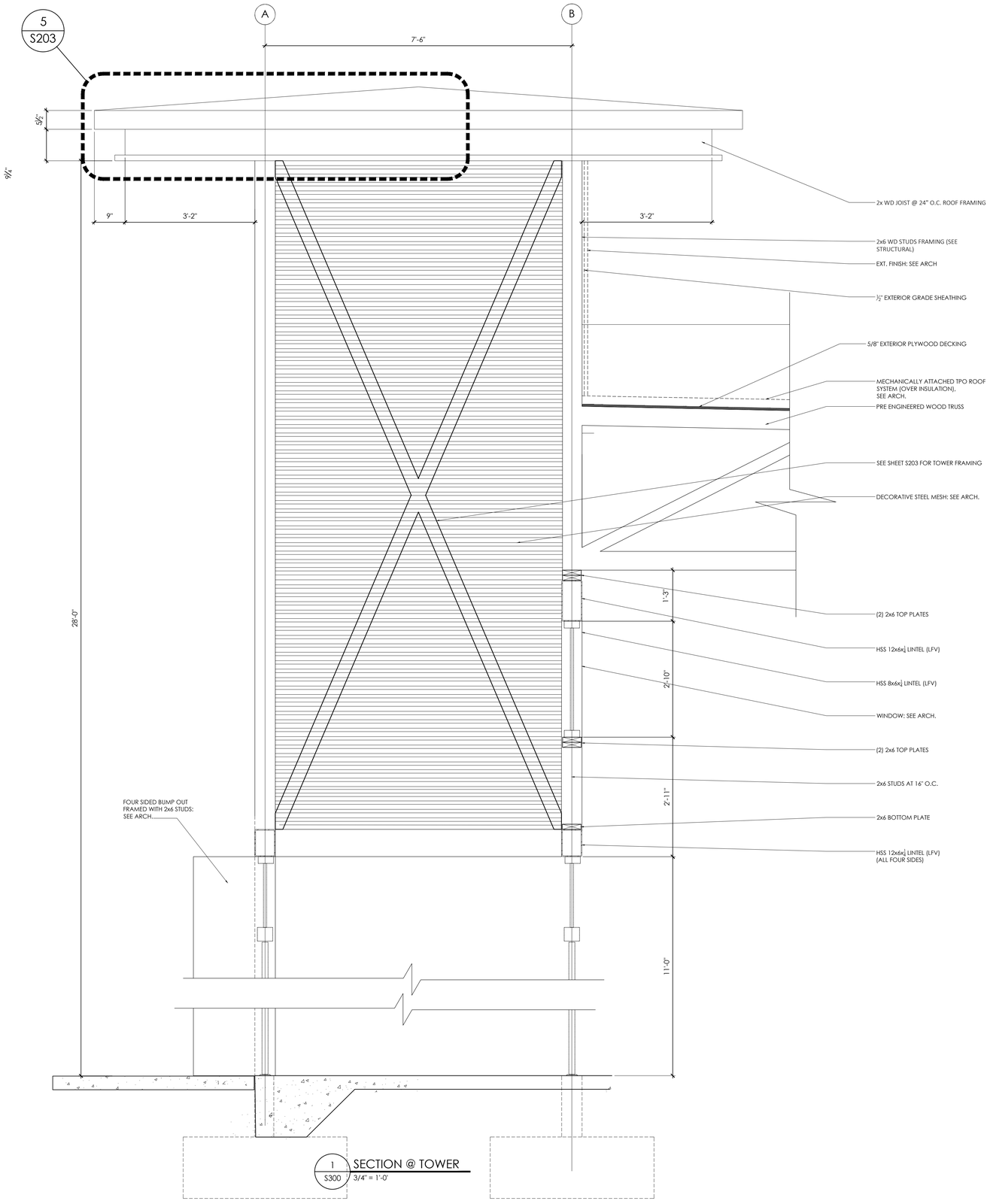
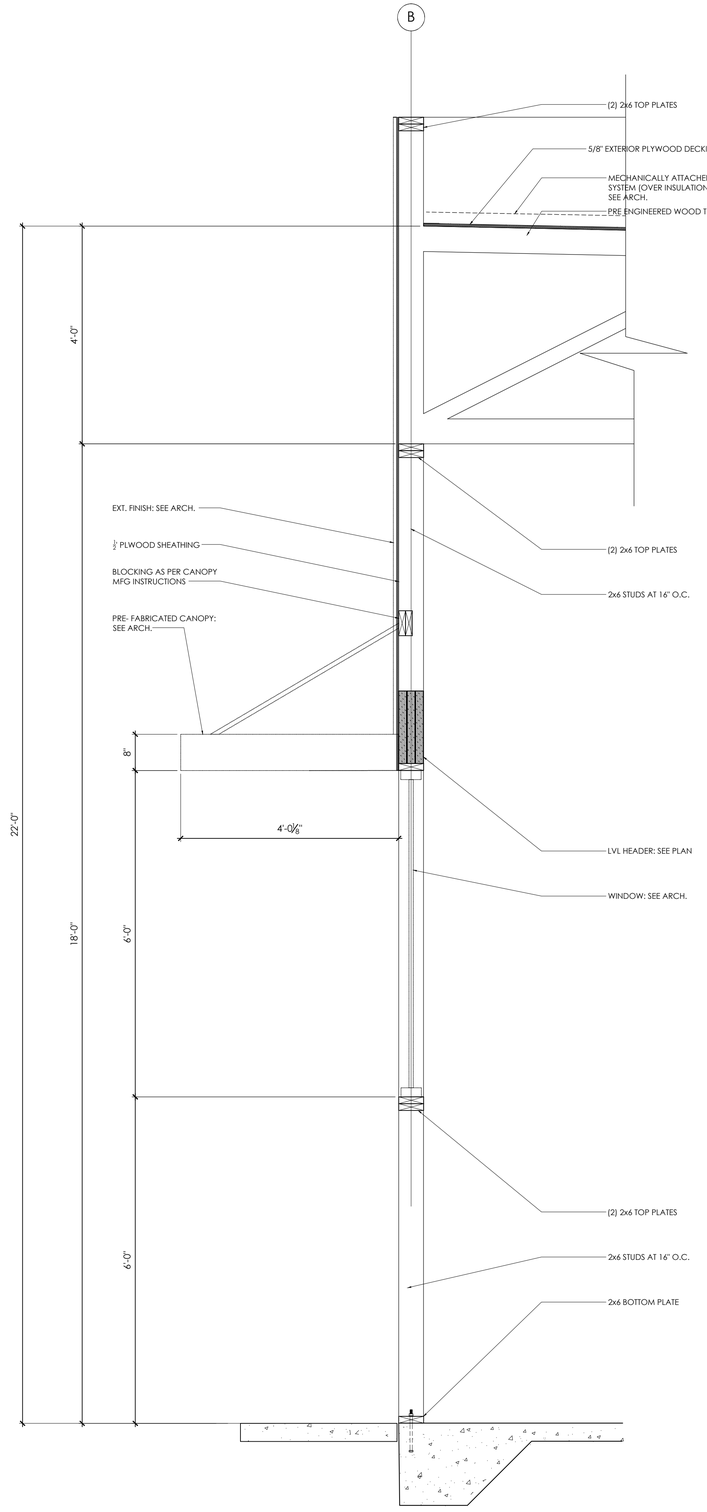


1 S300 SECTION @ TOWER
3/4" = 1'-0"



2 S300 SECTION @ FRONT WALL
3/4" = 1'-0"

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Hwy 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

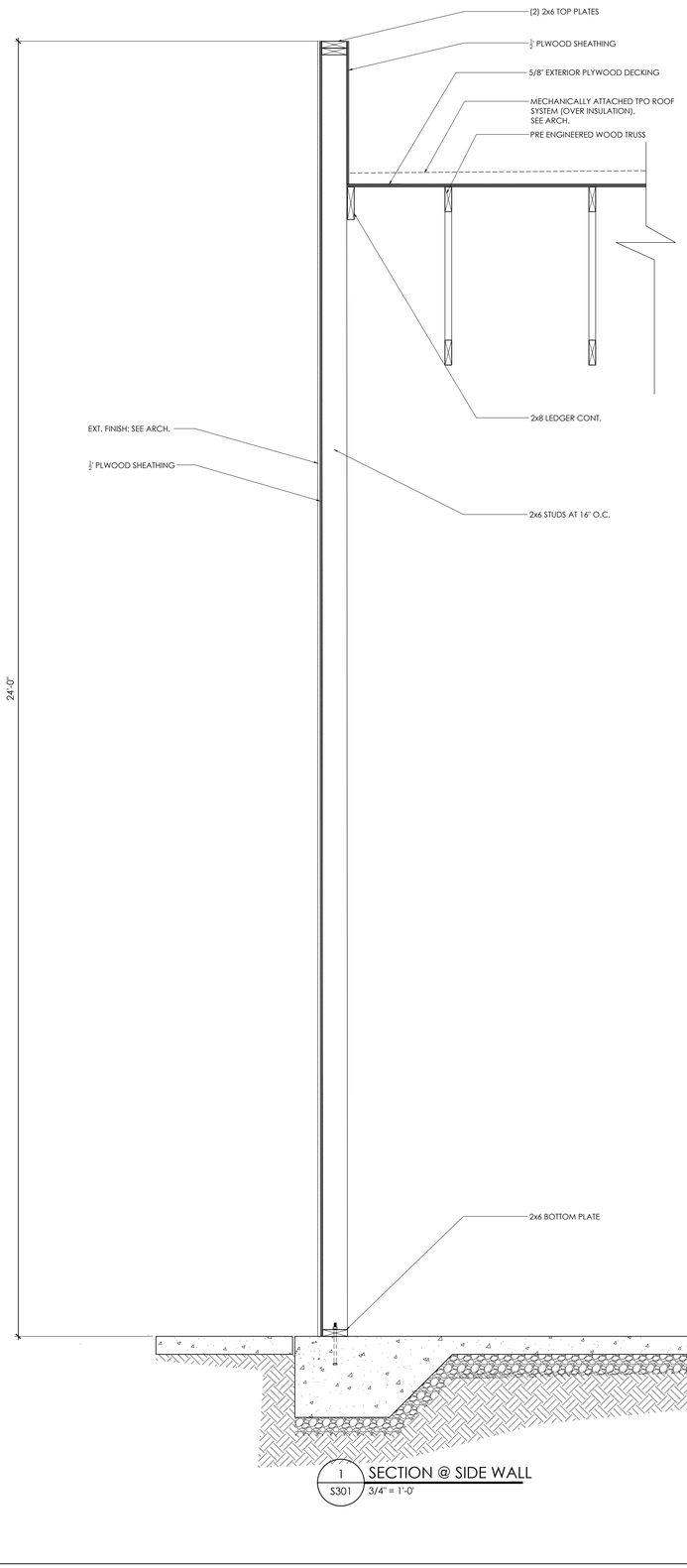
WALL DETAILS

PROJECT NO: 24022

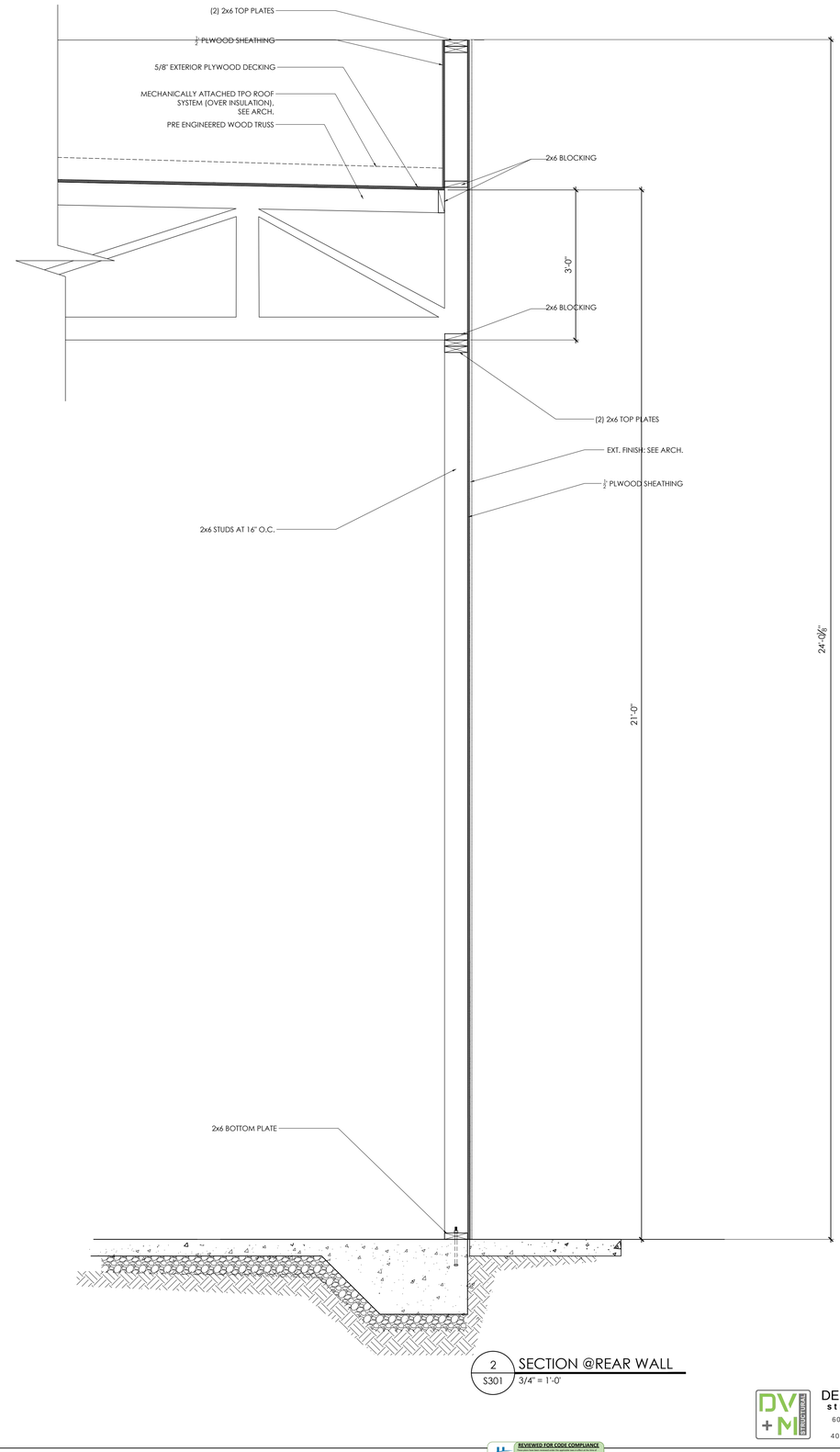
S300

DEL VALLE + MCNEIL
structural engineers
6065 ROSWELL ROAD - SUITE 970
ATLANTA, GA 30328
404.369.0058 | dvmstructural.com

REVIEWED FOR CODE COMPLIANCE
These plans have been reviewed under the applicable laws in effect at the time of permitting for compliance with the requirements of the Henry County Code of Ordinances. Henry County does not warrant the accuracy of the plans or the adequacy of the plans for any purpose or for the compliance with any laws other than those specifically reviewed and approved.
Building Standards, ICC#1242560, 770-954-7011 ext. 8000
Approved Plans



1 S301 SECTION @ SIDE WALL
3/4" = 1'-0"



2 S301 SECTION @REAR WALL
3/4" = 1'-0"

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S301

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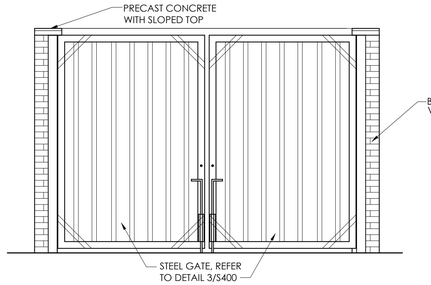
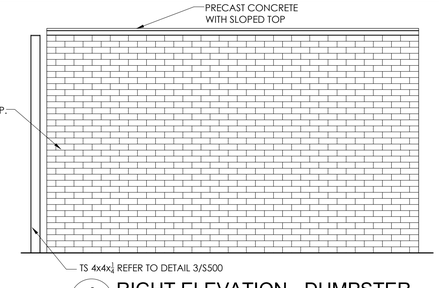
ATLANTA, GA 30328
404.369.0058 | dvmstructural.com

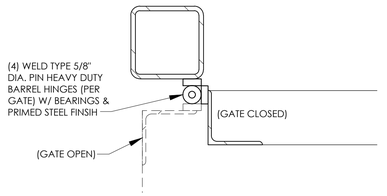
REVIEWED FOR CODE COMPLIANCE
These plans have been reviewed under the applicable laws in effect at the time of permitting for compliance with the requirements of the Henry County Code. Henry County Planning & Zoning signature shall not be construed to be a permit for, nor an approval of, any violation of any provisions of the Henry County Code or any other ordinance, regulation or requirement.
Building Standards, IC (IECA/CGSBE) 2018 with Amd. for GA 2020
Zoning Overlay



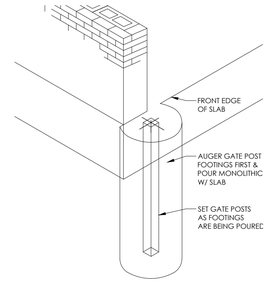
9 S400 **FRONT ELEVATION - DUMPSTER**
3/8"=1'-0"



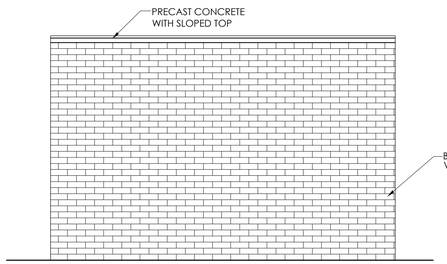
8 S400 **RIGHT ELEVATION - DUMPSTER**
3/8"=1'-0"



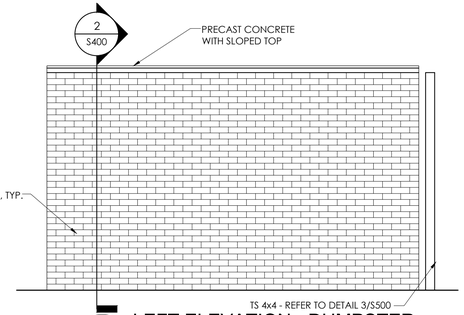
11 S400 **DUMPSTER GATE HINGE DETAIL**
3"=1'-0"



12 S400 **DUMPSTER GATE POST FOOTING**
NTS

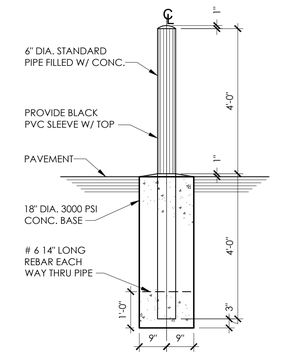


7 S400 **REAR ELEVATION - DUMPSTER**
3/8"=1'-0"

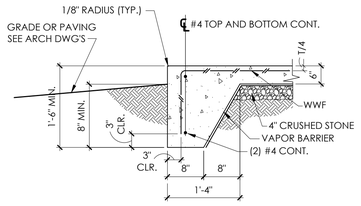


6 S400 **LEFT ELEVATION - DUMPSTER**
3/8"=1'-0"

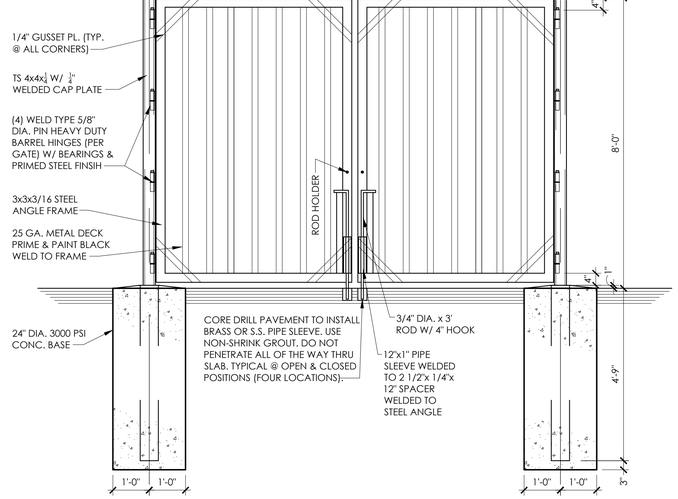
10 S400 **NOT USED**



5 S400 **BOLLARD DETAIL**
1/2"=1'-0"

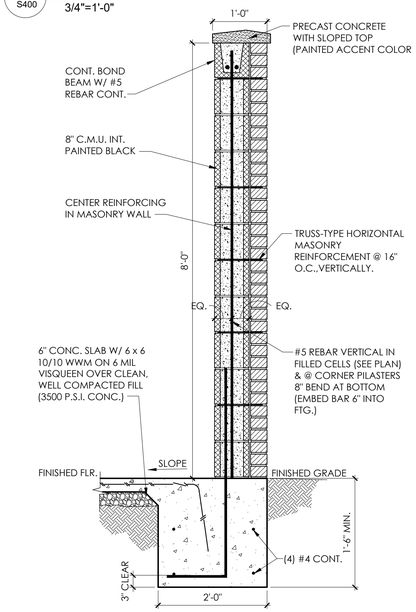


2a S400 **ENCLOSURE SLAB EDGE**
3/4"=1'-0"

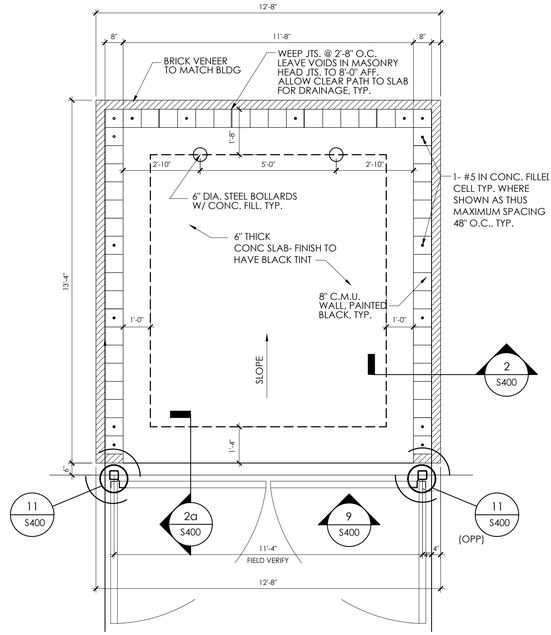


4 S400 **NOT USED**

3 S400 **DUMPSTER ENCLOSURE GATE DETAIL**
1/2"=1'-0"



2 S400 **TYP. SECTION @ DUMPSTER ENCLOSURE WALL**
3/4"=1'-0"



1 S400 **DUMPSTER ENCLOSURE PLAN**
3/8"=1'-0"

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SHEET TITLE:

DUMPSTER ENCLOSURE

PROJECT NO: 24022

S400

DEL VALLE + MCNEIL
structural engineers
6065 ROSWELL ROAD - SUITE 970
ATLANTA, GA 30328
404.369.0098 | dvmstructural.com

REVIEWED FOR CODE COMPLIANCE
Reviewed for code compliance only. Not responsible for interpretations or omissions. Review does not relieve the owner or design professional of responsibility for compliance with all applicable codes. Approval of plans does not authorize violation of any federal, state or local laws or ordinances.
Ashley Roebuck, ICC#10424048 2018 Atlas, NC & IRC
Date Reviewed

HVAC GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM PER THESE CONTRACT DOCUMENTS.
2. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL BUILDING CODE, THE STATE ENERGY CODE, NFPA 90A, 101 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
3. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
4. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS.
5. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
6. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE WITH EQUIPMENT CHARACTERISTICS AND ELECTRICAL DRAWINGS.
7. ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
8. UNLESS NOTED OTHERWISE, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
9. ALL FANS SUPPLYING MORE THAN 2000 CFM OF AIR TO ANY SPACE AND ALL RECIRCULATING FAN SYSTEMS SERVING AREAS OF EGRESS SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE SUPPLY DUCTWORK. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL (IF BUILDING IS SO EQUIPPED). IF THE BUILDING IS NOT PROVIDED WITH A FIRE ALARM SYSTEM, THE SMOKE DETECTOR SHALL CAUSE A VISIBLE AND AUDIBLE ALARM SIGNAL IN A NORMALLY OCCUPIED AREA. SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE.
10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
11. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
12. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.
13. SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS IN ALL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.
14. DUCTWORK IN NON-AIR CONDITIONED AREAS SHALL BE INSULATED WITH 2" THICK FIBERGLASS DUCT INSULATION WITH FOIL VAPOR BARRIER, U.L. LISTED, MINIMUM R-8.
15. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.
16. EXPOSED ROUND DUCTWORK SHALL BE MEDIUM PRESSURE SPIRAL TYPE, UNITED SHEET METAL OR EQUAL.
17. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 3 OR EQUAL, SAME SIZE AS DIFFUSER NECKS, MAXIMUM 8'-0" LONG. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS.
18. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN-IN FITTINGS WITH AIR EXTRACTORS AND BALANCING DAMPERS.
19. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
20. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST APPROVED LOCATION. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS).
21. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR FLOW QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED TEST AND BALANCE REPORT TO ARCHITECT FOR APPROVAL.
22. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
23. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
24. MOUNT THERMOSTATS 42" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING COVER ASSEMBLIES FOR ALL THERMOSTATS.
25. ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL ON AND ANCHORED TO MINIMUM 14" HIGH INSULATED ROOF CURBS. CONTRACTOR SHALL COORDINATE ROOF SLOPE AND ACTUAL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS. ALL REFERENCES TO ROOF HEIGHTS REFER TO HEIGHTS ABOVE FINISHED ROOF SURFACE.
26. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC.
27. ROOFTOP HVAC UNITS SHALL BE INSTALLED SUCH THAT ROOF DECK IS COMPLETE AND CONTINUOUS UNDER BOTTOMS OF HVAC UNITS, AND SHALL BE CUT ONLY FOR UNIT SUPPLY AND RETURN OPENINGS. SPACE BETWEEN ROOF DECK AND BOTTOM OF ROOFTOP HVAC UNITS (INSIDE OF ROOF CURBS) SHALL BE FILLED WITH HIGH DENSITY ACOUSTICAL INSULATION.

HVAC LEGEND

SYMBOL	DESCRIPTION	ABBREVIATIONS
---	ABOVE FINISHED FLOOR	AFF
	AIR EXTRACTOR	---
---	BRAKE HORSEPOWER	BHP
---	BOTTOM OF DUCT	BOD
---	BRITISH THERMAL UNIT	BTU
	CEILING DIFFUSER	CD
	CEILING RETURN GRILLE	RAG
A 200	DIFFUSER TYPE "A" BALANCED FOR 200 CFM	A/200
---	DRY BULB	DB
14x12	DUCT SIZE (RECTANGULAR)	---
8"ø	DUCT SIZE (ROUND)	---
---	ENERGY EFFICENCY RATING	EER
---	ENTERING AIR TEMPERATURE	EAT
EF 1	EQUIPMENT NUMBER DESIGNATION (EF-1)	---
---	EXHAUST FAN	EF
---	EXTERNAL STATIC PRESSURE (IN. W.C.)	ESP
---	HORSEPOWER	HP
---	INCHES WATER COLUMN	IN. W.C.
---	KILOWATT	KW
---	LEAVING AIR TEMPERATURE	LAT
	MANUAL VOLUME DAMPER	MVD
---	THOUSAND BTU/HOUR	MBH
	NEGATIVE PRESSURE DUCT OR OUTLET	---
---	OUTSIDE AIR	O/A
---	PACKAGED ROOFTOP UNIT	RTU
	POSITIVE PRESSURE DUCT OR OUTLET	---
S	REMOTE TEMPERATURE SENSOR	---
---	RETURN AIR	R/A
R	RISE	R
---	SEASONAL ENERGY EFFICENCY RATING	SEER
	SMOKE DETECTOR	SD
	SPIN IN FITTING W/ DAMPER & FLEX DUCTWORK	---
---	SUPPLY AIR	S/A
---	SUPPLY FAN	SF
T	THERMOSTAT	T'STAT
---	UNDERCUT (DOOR) 1"	U/C 1"
---	WET BULB	WB

SCHEDULE - AIR BALANCE

TAG	EXHAUST CFM	OUTSIDE AIR CFM
KEF-1	1800	-
EF-1	450	-
MAU-1	-	1440
RTU-1	-	600
RTU-2	-	600
TOTALS	2250	2640
BUILDING TOTALS		390 CFM POSITIVE

SCHEDULE - GAS FIRED ROOFTOP UNITS

TAG	MODEL No.	TOTAL CFM	MIN. O.A. CFM	ESP	FAN BHP	MBH TOT. COOL	MBH SEN. COOL	L.A.T. db/wb	SEER	VOLTAGE	HZ./ø	MCA	MOCP	MBH GAS IN	MBH GAS OUT	WEIGHT (LB)	ACCESSORIES
RTU-1	YHC092F3RMA	3000	600	0.6"	0.94	92.0	68.6	58/57	14.5	208-230	60/3	42	50	150	105	1291	1,2,3,4,5,6,7,8,9
RTU-2	YHC092F3RMA	3000	600	0.6"	0.94	92.0	68.6	58/57	14.5	208-230	60/3	42	50	150	105	1291	1,2,3,4,5,6,7,8,9

NOTES:

1. COOLING CAPACITIES ARE BASED ON 80'F db, 67'F wb, 95'F AMBIENT.

ACCESSORIES:

1. 14" HIGH INSULATED ROOF CURB, DISCONNECT SWITCH AND 120 VOLT GFI OUTLET.
2. SMOKE DETECTOR IN SUPPLY AIR DUCT.
3. THERMOSTAT AND HUMIDISTAT WITH REMOTE TEMPERATURE SENSOR.
4. HOT GAS RE-HEAT OPTION.
5. FAN SHALL RUN CONTINUOUSLY DURING HOURS OF OCCUPANCY.
6. ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROLS.
7. 2" MERV 8 FILTER.
8. BAROMETRIC RELIEF DAMPER.

SELECTIONS ARE BASED ON PRODUCTS BY TRANE.
EQUAL PRODUCTS: CARRIER, YORK.

SCHEDULE - FANS

TAG	MODEL	DUTY	CFM	E.S.P.	MOTOR SIZE	RPM	DRIVE	WEIGHT (Lb)	ACCESSORIES
EF-1	DX06B	EXHAUST	450	0.25"	1/6 HP	1015	BELT	35	1,2,3,4,5

ACCESSORIES:

1. GRAVITY BACKDRAFT DAMPERS.
2. WIRE FOR CONTINUOUS OPERATION DURING BUILDING OCCUPIED MODE.
3. DISCONNECT SWITCH.
4. 14" HIGH INSULATED ROOF CURB.
5. BIRD SCREEN.

SELECTIONS ARE BASED ON PRODUCTS BY PENN.
EQUAL PRODUCTS: GREENHECK, CARNES, JENNAIRE, COOK, AMMERIAN.

SCHEDULE - AIR DISTRIBUTION

TAG	SERIES	CFM	DUTY	NECK	SIZE	DAMPER	MATERIAL	DESCRIPTION
A	TMS-AA	SEE DWGS	SUPPLY	SEE DWGS	24x24	YES	ALUMINUM	1
B	S300 FS	250	SUPPLY	12x6	14x8	YES	ALUMINUM	2
C	PAS-AA	400	SUPPLY	10"ø	24x24	YES	ALUMINUM	3
D	50F	75-150	EXHAUST	6x6	8x8	NO	ALUMINUM	4

NOTES:

A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND/OR SUSPENSION SYSTEM.
B. FINISH SHALL BE OF THE TYPE AND COLOR SELECTED BY ARCHITECT. SUBMIT FINISH CHART WITH SHOP DRAWINGS.

DESCRIPTION:

1. LOUVER FACE, HIGH PERFORMANCE, ROUND NECK, SQUARE DIFFUSER.
2. SPIRAL DUCT SUPPLY AIR GRILLE.
3. PERFORATED FACE, 3-WAY BLOW, ROUND NECK, SQUARE DIFFUSER.
4. 1/2" X 1/2" X 1/2" EGGCRATE RETURN / EXHAUST GRILLE.

SELECTIONS ARE BASED ON PRODUCTS BY TITUS.
EQUAL PRODUCTS: KRUEGER, CARNES, METAL*AIRE & PRICE.

OUTSIDE AIR / EXHAUST VENTILATION COMPLIANCE

UNIT NUMBER	AREA CLASSIFICATION	AREA (SQ. FT.)	NO. OF PEOPLE PER 1000 SQ. FT. (TABLE 403.3)	PEOPLE QUANTITY	AIRFLOW PER PERSON (TABLE 403.3)	AIRFLOW PER SQ. FT. (TABLE 403.3)	TOTAL OUTSIDE AIR REQUIRED (CFM)	OUTSIDE AIR PROVIDED (CFM)	EXHAUST AIR REQUIRED (CFM)[NOTE 2]	EXHAUST AIR PROVIDED (CFM)
RTU-1 & 2	SALESFLOOR	2200	15	33	7.5	0.12	512		-	-
	GAMING	100	-	5	7.5	0.12	50		-	-
	CASHIER	185	-	3	7.5	0.12	45		-	-
	CORRIDOR	190	-	-	-	0.06	11		-	-
	OFFICE	78	5	1	5	0.06	7		-	-
	STORAGE/UTILITY	195	-	-	-	0.06	12	1200	-	-
KEF-1	KITCHEN	335	-	-	-	-	-		235	1800
EF-1	RESTROOM	370	-	-	-	-	-		420	450
TOTALS							637	1200	655	2250

NOTES:

1. CALCUALTIONS BASED ON INTERNATIONAL MECHANICAL CODE TABLE 403.3.
2. KITCHEN 0.7 CFM/SF, RESTROOMS PER TABLE 403.3 FOOTNOTE 'E' 70 CFM PER FIXTURE.

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: JWE
CHK'D BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

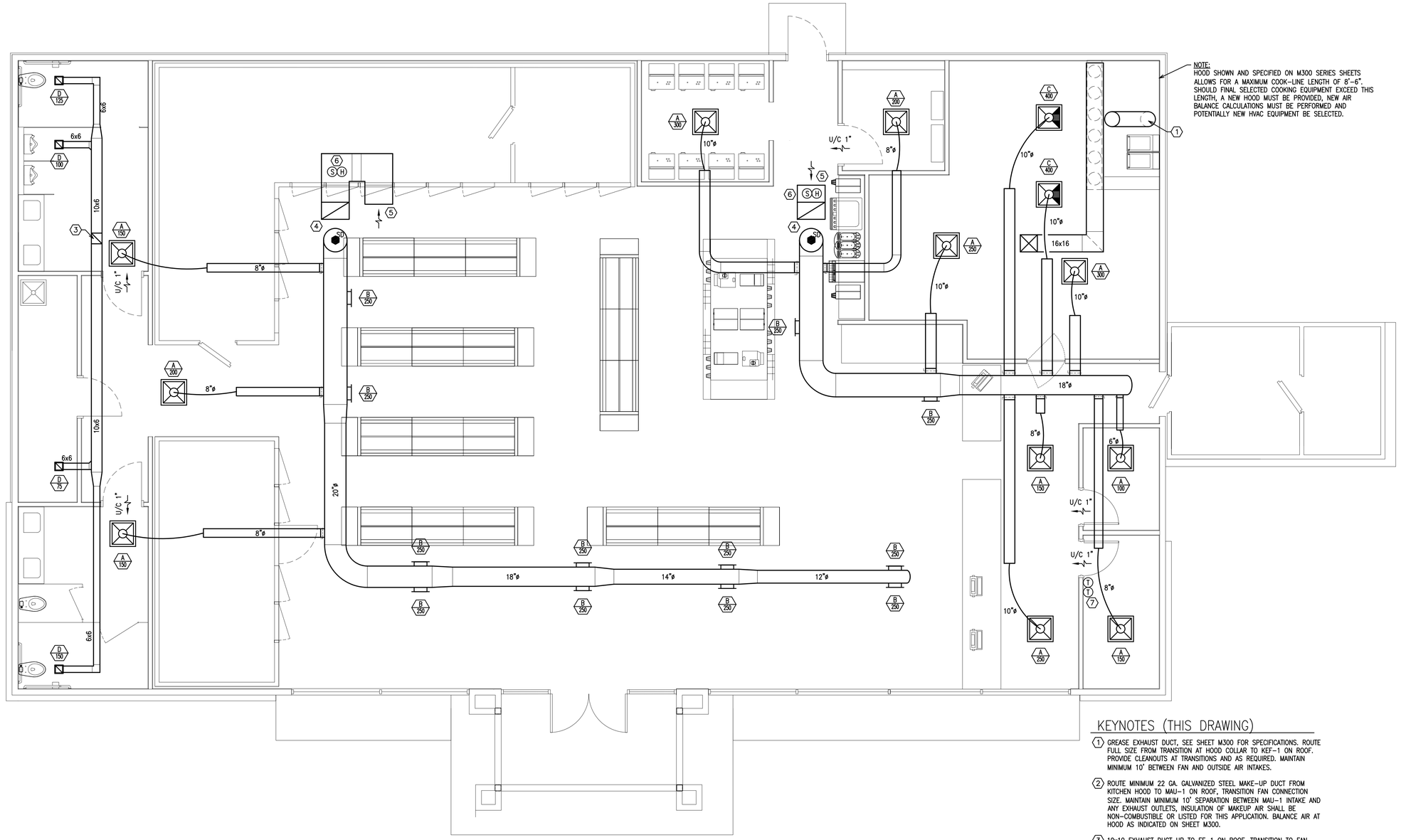
SHEET TITLE:

NOTES, SCHEDULES, LEGEND - HVAC

PROJECT NO: 24022

M000

REVIEWED FOR CODE COMPLIANCE



1 M100 FLOOR PLAN – HVAC

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

KEYNOTES (THIS DRAWING)

1. GREASE EXHAUST DUCT, SEE SHEET M300 FOR SPECIFICATIONS. ROUTE FULL SIZE FROM TRANSITION AT HOOD COLLAR TO KEF-1 ON ROOF. PROVIDE CLEANOUTS AT TRANSITIONS AND AS REQUIRED. MAINTAIN MINIMUM 10' BETWEEN FAN AND OUTSIDE AIR INTAKES.
2. ROUTE MINIMUM 22 GA. GALVANIZED STEEL MAKE-UP DUCT FROM KITCHEN HOOD TO MAU-1 ON ROOF, TRANSITION FAN CONNECTION SIZE. MAINTAIN MINIMUM 10' SEPARATION BETWEEN MAU-1 INTAKE AND ANY EXHAUST OUTLETS, INSULATION OF MAKEUP AIR SHALL BE NON-COMBUSTIBLE OR LISTED FOR THIS APPLICATION. BALANCE AIR AT HOOD AS INDICATED ON SHEET M300.
3. 10x10 EXHAUST DUCT UP TO EF-1 ON ROOF. TRANSITION TO FAN CONNECTION SIZE.
4. 22"ø SUPPLY AND 26x16 RETURN DUCTS UP TO RTU-1&2. TRANSITION TO UNIT CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION.
5. 26x16 RETURN AIR DUCT OPEN ON END WITH WIRE MESH SCREEN.
6. MOUNT REMOTE TEMPERATURE SENSOR AND HUMIDISTAT IN RETURN DUCTWORK.
7. THERMOSTATS FOR ROOFTOP UNITS TO BE LOCATED IN OFFICE. PROVIDE LABELS FOR EACH THERMOSTAT.

REVIEWED FOR CODE COMPLIANCE

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C-STORE
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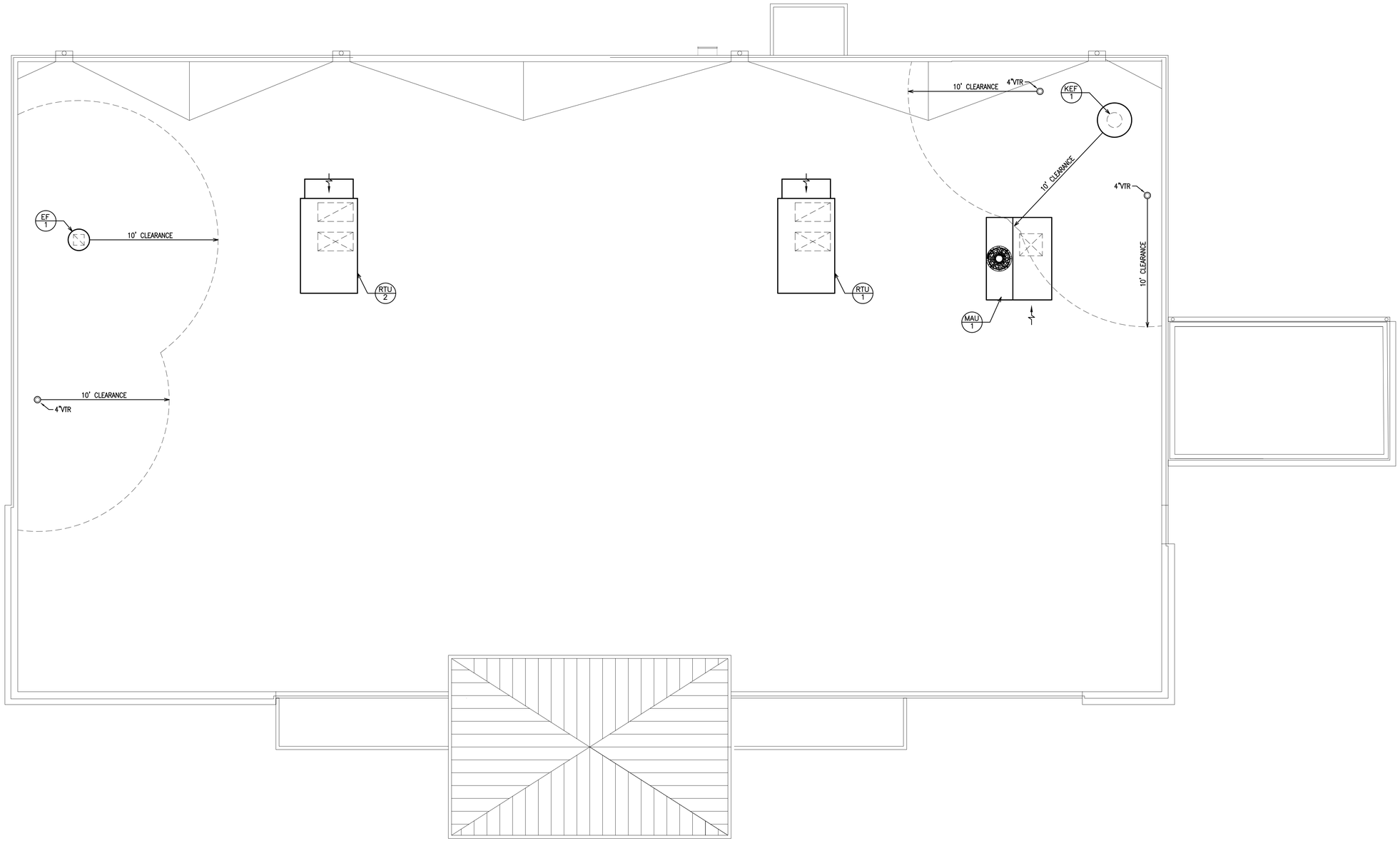
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

FLOOR PLAN - HVAC

PROJECT NO: 24022

M100



1 / M101 ROOF PLAN – HVAC

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

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Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

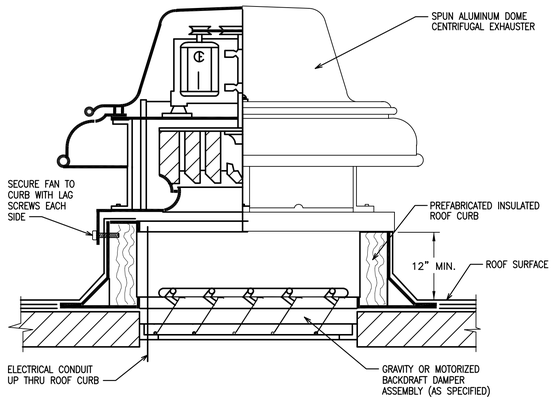
SHEET TITLE:

ROOF PLAN - HVAC

PROJECT NO: 24022

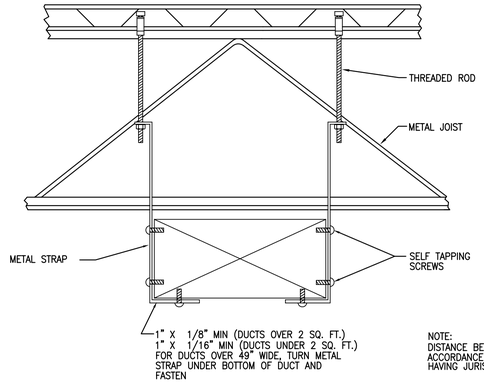
M101

REVIEWED FOR CODE COMPLIANCE
Henry County
Approved: The plans and specifications submitted for review have been reviewed and approved by the Henry County Building Safety and Planning Department for compliance with the applicable codes adopted by Henry County and other applicable laws and ordinances. Any deviations from approved plans must be reviewed and approved by the Code Official. An approved set of plans must be available on the jobsite for inspection purposes.
Ashley Roebuck, ICC#12424281 Date: Mar 23 2026
Plan Review



ROOF–MOUNTED CENTRIFUGAL EXHAUST FAN

SCHEMATIC – NO SCALE



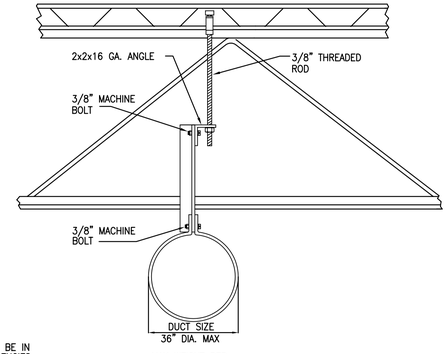
NOTE:
DISTANCE BETWEEN DUCT HANGERS SHALL BE IN ACCORDANCE WITH THE RULES OF THE AGENCIES HAVING JURISDICTION.

DUCTWORK SUPPORT DETAIL

NOT TO SCALE

RECTANGULAR DUCTS

MAX. SIDE INCHES	MIN. GALV. SHT. GAUGE		ALUMINUM MIN. B & S GAUGE	
THROUGH 12	26	(0.022 IN.)	24	(0.020 IN.)
13 THROUGH 30	24	(0.028 IN.)	22	(0.025 IN.)
31 THROUGH 54	22	(0.034 IN.)	20	(0.032 IN.)
55 THROUGH 84	20	(0.040 IN.)	18	(0.040 IN.)
OVER 84	18	(0.052 IN.)	16	(0.051 IN.)



MAX WEIGHT PER FOOT = 16 LBS.

ROUND DUCT SUPPORT DETAIL

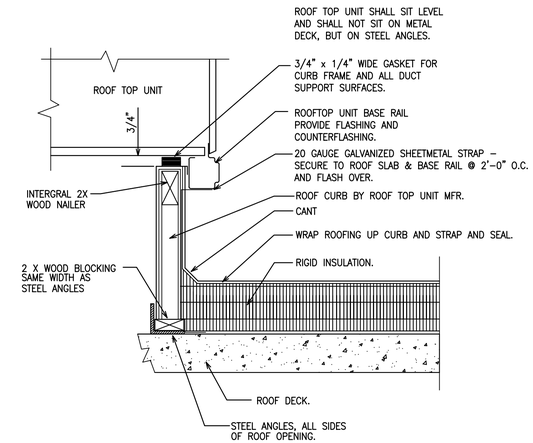
NOT TO SCALE

ROUND DUCTS LONGITUDINAL SEAM

DIAMETER INCHES	SPIRAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE		DUCT STEEL MIN. GALV. SHT. GAUGE		FITTINGS STEEL MIN. GALV. SHT. GAUGE	
THROUGH 12	28	(0.019 IN.)	26	(0.022 IN.)	26	(0.022 IN.)
13 THROUGH 18	26	(0.022 IN.)	24	(0.028 IN.)	24	(0.028 IN.)
19 THROUGH 28	24	(0.028 IN.)	22	(0.034 IN.)	22	(0.034 IN.)
29 THROUGH 36	22	(0.034 IN.)	20	(0.040 IN.)	20	(0.040 IN.)
37 THROUGH 52	20	(0.040 IN.)	18	(0.052 IN.)	18	(0.052 IN.)

DUCT SUPPORT DETAIL

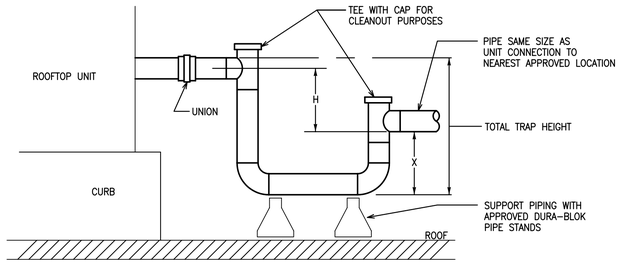
SCHEMATIC – NO SCALE



NOTE: SECURE ROOF MOUNTED EXHAUST FANS IN SIMILAR MANNER.

ROOF CURB FRAMING – MECHANICAL EQUIPMENT

SCHEMATIC – NO SCALE

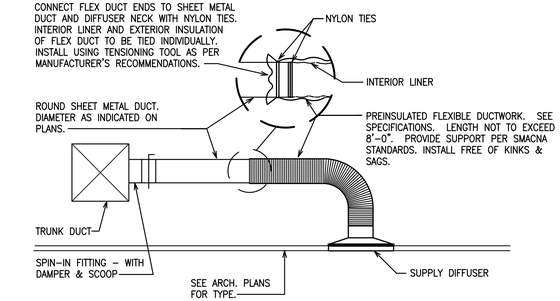


TOTAL TRAP HEIGHT = X + H + 1.5 D

WHERE: H = AT LEAST 1" PLUS CASING SP
X = 1/2 H
D = PIPE DIAMETER

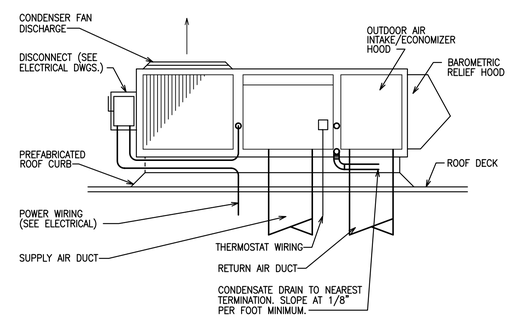
CONDENSATE DRAIN TRAP

SCHEMATIC – NO SCALE



FLEXIBLE DUCT TAKE–OFF DETAIL

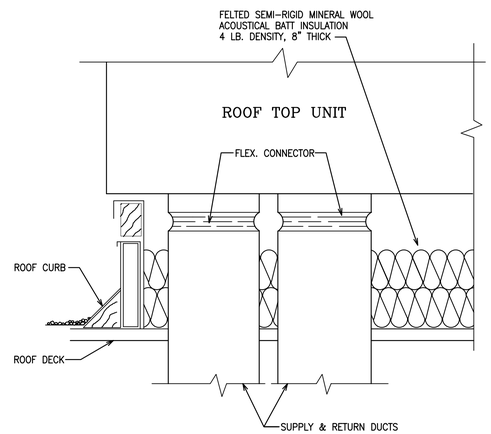
SCHEMATIC – NO SCALE



NOTE: ALL CONNECTIONS AND SERVICES MUST BE INSIDE THE PERIMETER CURB. DISCONNECT SWITCHES, BRACKETS, AND CONDUIT MUST BE CLEAR OF ALL UNIT PANELS AND AIR FLOW. BRACKETS MUST BE TO STRUCTURAL MEMBERS OF UNIT.

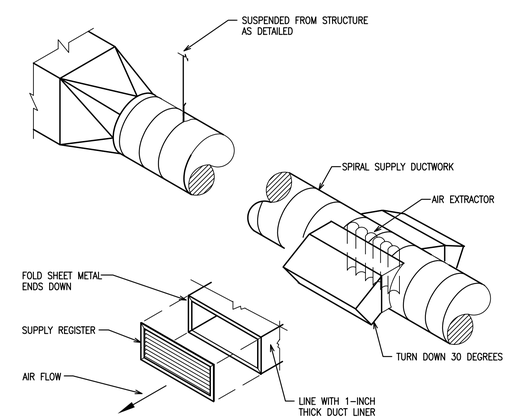
ROOF TOP AIR CONDITIONER DETAIL

SCHEMATIC – NO SCALE



ROOF TOP MOUNTING DETAIL

SCHEMATIC – NO SCALE



MOUNTING DETAIL – SUPPLY REGISTER

SCHEMATIC – NO SCALE

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SHEET TITLE:

DETAILS
HVAC

PROJECT NO: 24022

M200

REVIEWED FOR CODE COMPLIANCE
Henry County Building Safety & Planning Department
Reviewed for code compliance only. Approval of this plan does not relieve the applicant of responsibility for compliance with all applicable codes, ordinances, and regulations. Approval of this document does not constitute approval of any deviation from applicable codes unless specifically noted. Approval of this document does not constitute approval of any violation of the Americans with Disabilities Act.
Ashley Sadlock, ICC#10424481 Review Date: 10/1/2025

FOR QUESTIONS, CALL THE
Atlanta Mechanical
REGION 122
PHONE: (470) 419 – 4768
EMAIL: reg122@captiveaire.com

PATENT NUMBERS

AC–PSP (UNITED STATES) – US PATENT 7963830 B2.
AC–PSP WALL (CANADA) – CA PATENT 2820509.
AC–PSP ISLAND (CANADA) – CA PATENT 2520330.

HOOD INFORMATION – JOB#7527971

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	KH–1	5424 ND–2–PSP–F	CAPTIVEAIRE	9' 0"	600 DEG	I	HEAVY	200	1800			4"	14"	1800	1684	–0.666"	1440	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH–1	CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC–311110MA	1 LIGHT 1 FAN	YES	821 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH–1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 121.00" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 80.00" HIGH X 54.00" LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		RIGHT WALL AS END PANEL.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	KH–1	Front	121"	14"	6"	MUA			12"	240	0.074"
						MUA			12"	240	0.074"
						MUA			12"	240	0.074"
						MUA			12"	240	0.074"
						MUA			12"	240	0.074"
						MUA			12"	240	0.074"

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL–1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL–2221 OR UL–103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW– 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE–FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

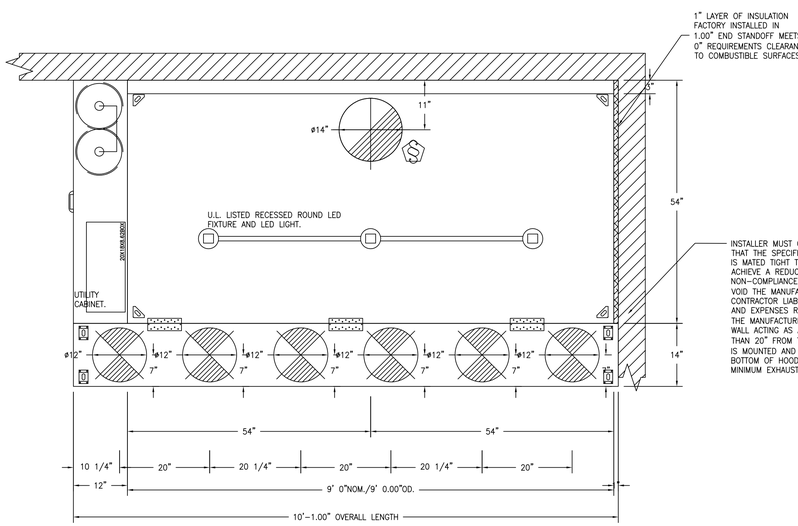
VERIFY CEILING HEIGHT

__' - __"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

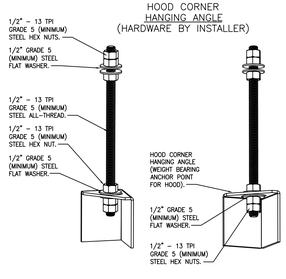
APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____ _____



PLAN VIEW – HOOD #1 (KH–1)
9' 0.00" LONG 5424ND–2–PSP–F

NOTE:
HOOD SHOWN ON SHEET M100 HAS BEEN MIRRORED FROM THIS ORIGINAL DESIGN. PRIOR TO OREDERING, CONFIRM FINAL LENGTH OF HOOD BASED ON COOKLINE EQUIPMENT AND SHIFT UTLITY CABINET TO RIGHT SIDE OF HOOD.

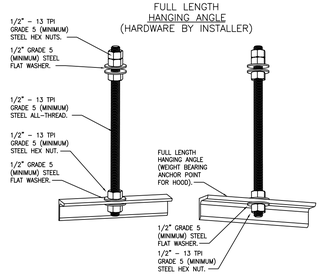
HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL–THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT–LBS.

FULL LENGTH
HANGING ANGLE
(HARDWARE BY INSTALLER)



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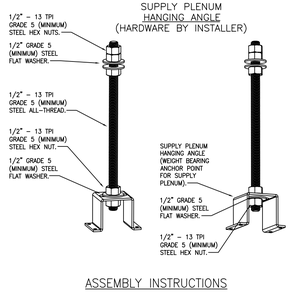
SUPPLY PLENUM
HANGING ANGLE
(HARDWARE BY INSTALLER)



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1 NOTE:
VENT HOOD PLANS ARE FOR REFERENCE ONLY.
A SEPERATE PERMIT AND PLANS ARE REQUIRED FOR THE VENT HOOD SUPPRESSION SYSTEM

SPECIFICATION: CAPTRATE GREASE–STOP SOLO FILTER

THE CAPTRATE GREASE–STOP SOLO FILTER IS A SINGLE–STAGE FILTER FEATURING A UNIQUE S–BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

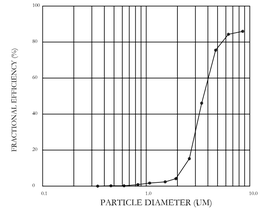
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2–INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

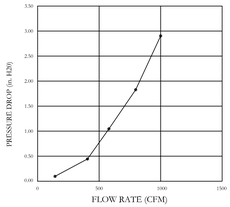
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE–STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519–05.
MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



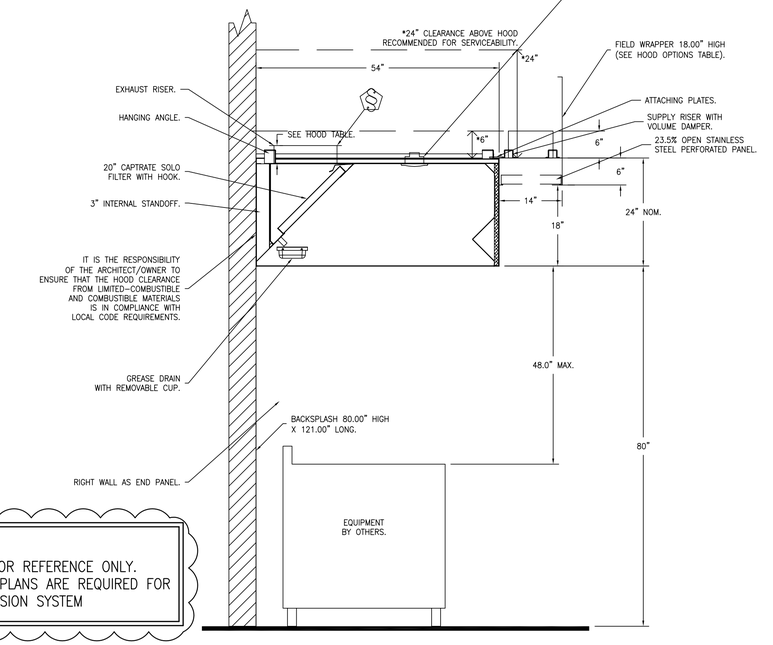
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC–S649.

BUILT IN ACCORDANCE WITH NFPA No. 96

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	0"

– *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
– HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW – MODEL 5424ND–2–PSP–F
HOOD – #1 (KH–1)

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REVISIONS

	DESCRIPTION	DATE:
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3		
4		

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Atlanta Mechanical
1395 S. Marietta Pkwy, Bldg 100, Ste 105, Marietta, GA. 30067 PHONE: (470) 419 - 4768 EMAIL: reg122@captiveaire.com
www.captiveaire.com

C–Store McDonough
Mcdonough, GA, 30252

DATE: 5/13/2025
DWG.#: 7527971
DRAWN BY:
SCALE: 3/4" = 1'–0"
MASTER DRAWING
SHEET NO. 1

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED No. 27385 PROFESSIONAL ENGINEER JONATHAN W. EDWARDS

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION
10/28/25	PERMIT SET COMMENT RESPONSES

DRAWN BY: CAPTIVEAIRE
CHK'D BY: JWE

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

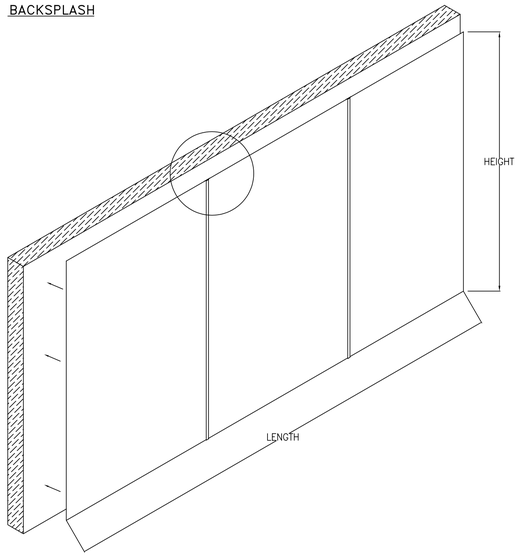
SHEET TITLE:
HOOD DETAILS

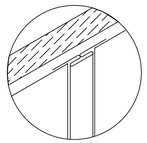
PROJECT NO: 24022

M300

REVIEWED FOR CODE COMPLIANCE
This review has been performed solely for code compliance and does not relieve the Applicant/Contractor of responsibility for compliance with all applicable codes, ordinances, and regulations. Fulton County does not assume responsibility for any omissions or errors that may exist. Fulton County shall not be responsible for any design, drawings, or safety precautions associated with the construction, alteration, or demolition of the project.
Building Protection, ECR20250001 Date: 10/30/2025

BACKSPLASH





BACKSPLASH PANELS
SLIDE INTO DIVIDER BAR

– BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

FIRE SYSTEM INFORMATION – JOB#7527971

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 – 0 – TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 – 0 – 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 – 0 – 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 – 0 – 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2? NPT FEMALE CONNECTION, VIEGA.	1	0
		0 – 0 – 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2? NPT FEMALE CONNECTION, VIEGA.	2	0
		0 – 0 – 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300001-001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87-300030-001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 – 0 – 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0
		ADDITIONAL PARTS TO BE DETERMINED...		

EXHAUST FAN INFORMATION – JOB#7527971

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU85HFA	CAPTIVEAIRE	1800	1.000	1376	TEAO-ECM	0.750	0.4610	1	115	8.9	570 FPM	90	12.4

DOAS/RTU FAN SCHEDULE – JOB#7527971

FAN INFORMATION										ELECTRICAL INFORMATION					COOLING INFORMATION										GAS HEAT INFORMATION					A2L MINIMUM ROOM VOLUME			
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY		IEER	ISMRE2	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
																DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.									
2	MAU-1	1	CAS-HVAC1-I.125-15-5T-MPU	CAPTIVEAIRE	15P-1	0	1440	1440	1199	0.500	1.00	3	208	26.1A	30A	87.4°F	77.8°F	87.4°F	77.8°F	68.7°F	66.0°F	64.8°F	64.0 MBH	28.1 MBH	17.9	6.4	NATURAL	104570	84702	55°F	7 IN. W.C. – 14 IN. W.C.	183.6	330	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
12. 15 DEGREE LOW AMBIENT OPERATION
13. 1" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-4.3 INSULATION-MINIMUM 24GA EXTERIOR W/ 18GA BASE
14. DOWN DISCHARGE/NO RETURN
15. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	41 LBS	CURB	23.000"W X 23.000"L X 22.000"H VENTED HINGED.
2	# 2	MAU-1	83 LBS	CURB	41.000"W X 71.000"L X 14.000"H INSULATED.

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REVISIONS

	DESCRIPTION	DATE:
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CAPTIVE-AIRE
Atlanta Mechanical
1395 S. Marietta Pkwy, Bldg 100, Ste 105, Marietta, GA, 30067 PHONE: (470) 419 - 4768 EMAIL: reg122@captiveaire.com
www.captiveaire.com

C-Store McDonough Mcdonough, GA, 30252

DATE: 5/13/2025

DWG.#: 7527971

DRAWN BY:

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

MASTER DRAWING

SHEET NO. 2

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED No. 27385 PROFESSIONAL ENGINEER JONATHAN W. EDWARDS

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: CAPTIVEAIRE
CHK'D BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

HOOD DETAILS

PROJECT NO: 24022

M301

REVIEWED FOR CODE COMPLIANCE
Approved: Scope of work indicated on the approved plans. Permit required for work to be performed. Please read application and notice of approval carefully and comply with the requirements listed. Keep a copy of the approved plans on site of construction at all times for use by inspectors.
Ashley Redlinski, ICC#10424961 Date: May 13, 2025
Cherokee County

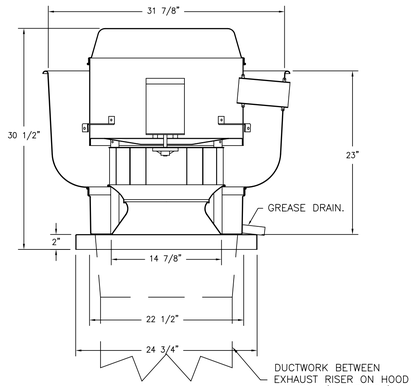
FAN OPTIONS

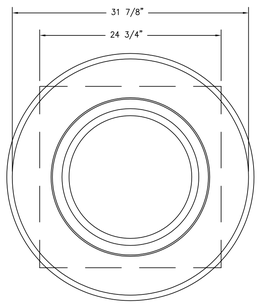
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL – DU/DR85HFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	MAU-1	1	INLET PRESSURE GAUGE, 0–35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	COOLING OVERRIDE
		1	RTU BLOWER DOOR SWITCH
		1	2" MERV 8 FILTERS FOR RTU1 (QTY. 4)
		1	TOTAL CFM MONITORING
		1	RTU1 DOWN DISCHARGE
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	INTAKE FIRESTAT SET TO 135°F
		1	RTU1 NO RETURN – 100% OA – MPU
		1	2" METAL MESH FILTERS FOR RTU1 OUTDOOR INTAKE
		1	RTU1 CURB DUCT HANGER
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK – ALARM SUPPLIED BY OTHERS
		1	OCCUPIED SCHEDULING
		1	CASLINK BUILDING MONITORING SYSTEM – INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU1 CONVENIENCE OUTLET (GFCI), 15 AMP – REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX
		1	CLOGGED FILTER SWITCH – NOTIFICATION ON HMI
		1	5 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FAN
		1	LOW AMBIENT COOLING OPERATION – DOWN TO 0F AMBIENT
		1	R454B LEAK DETECTOR OPTION FOR RTU5
		1	SIZE 1 MOISTURE ELIMINATOR FOR SIZE 1, 5 TON RTU. NO REHEAT
		1	2" MERV 13 FILTERS FOR RTU1 (QTY. 4)
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	VAV PACKAGE W/ 0–10VDC INPUT CONTROL (571 VFD INCLUDED)
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 – UNIT	IN UNIT	NOT AVERAGED	55

FAN #1 DU85HFA – EXHAUST FAN (KEF-1)





TOP VIEW

FEATURES:

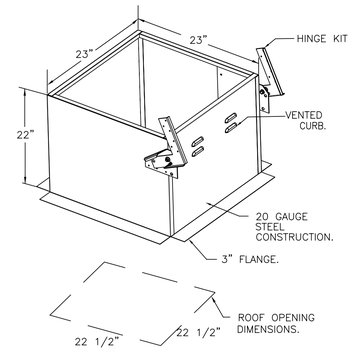
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

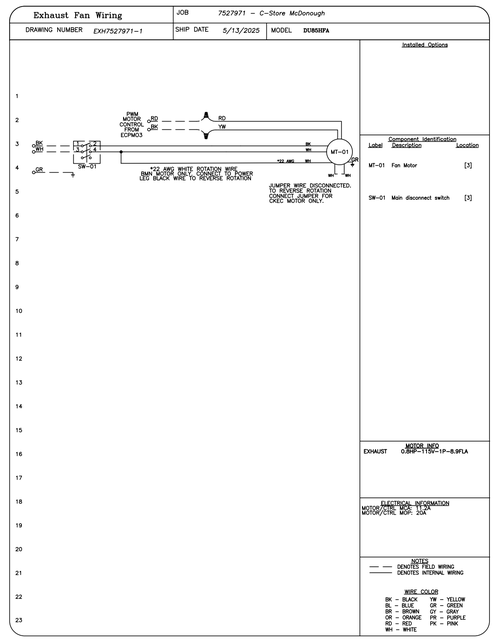
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL – DU/DR85HFA – INSTALLED AT PLANT – FOR GREASE DUCTS.
- ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

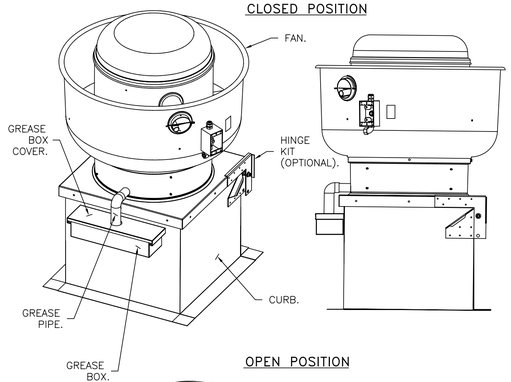




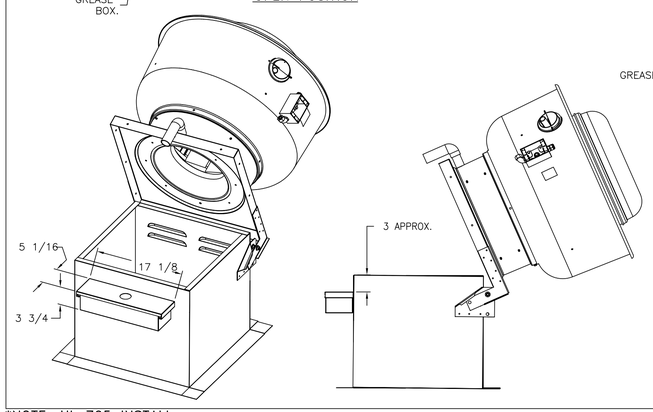
GREASE BOX INSTALLATION

GREASEBOX
REV.#2 08/19/02

CLOSED POSITION



OPEN POSITION



*NOTE: UL 705 INSTALL.

PARTS INCLUDED

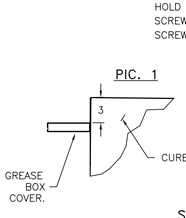
GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

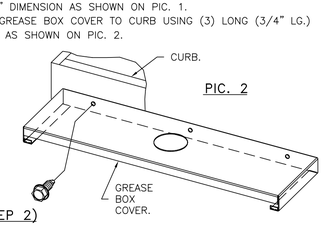
SHEET METAL SCREWS
3 – LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

STEP 1)

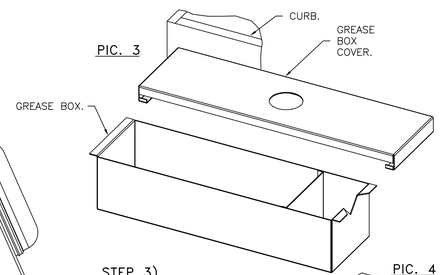
ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.





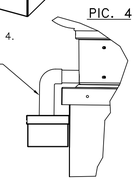
STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.



REVISIONS

	DESCRIPTION	DATE:
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C-Store McDonough
Mcdonough, GA, 30252

DATE: 5/13/2025

DWG.#: 7527971

DRAWN BY:

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

MASTER DRAWING

SHEET NO. 3

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

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SEAL:

GEORGIA REGISTERED No. 27385 PROFESSIONAL ENGINEER JONATHAN W. EDWARDS

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: CAPTIVEAIRE
CHKD BY: JWE

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
HOOD DETAILS

PROJECT NO: 24022

M302

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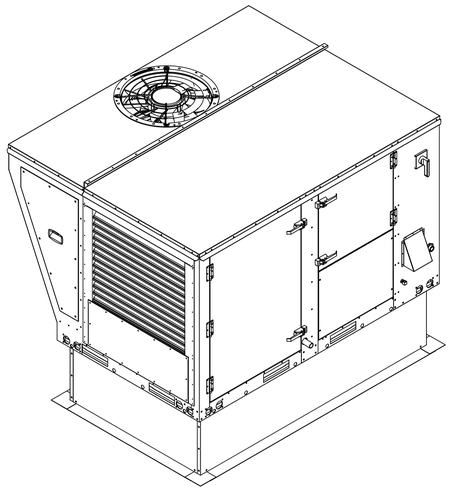
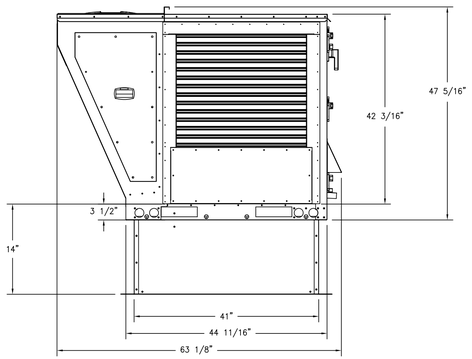
REVIEWED FOR CODE COMPLIANCE

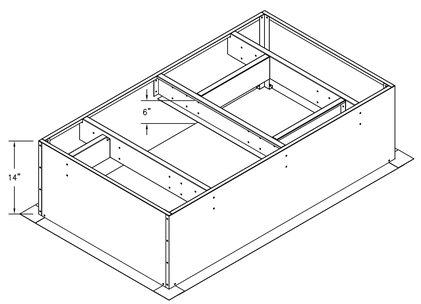
FAN #2 CAS-HVAC1-I.125-15-5T-MPU – HEATER (MAU-1)

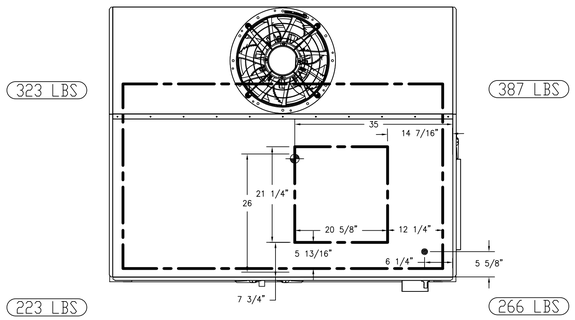
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

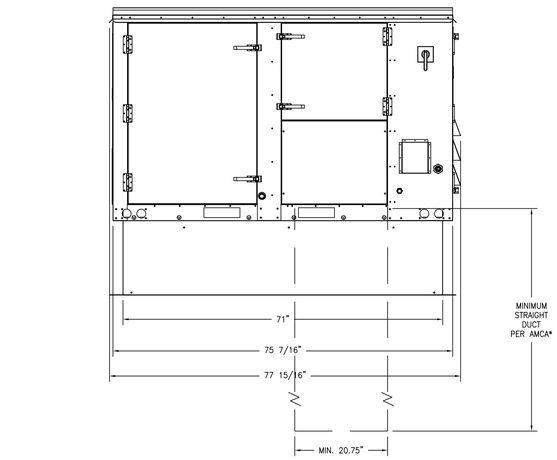
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 20.75" x 21.5".

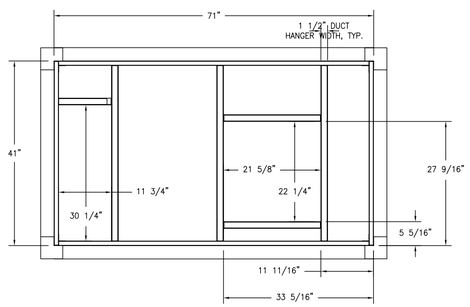


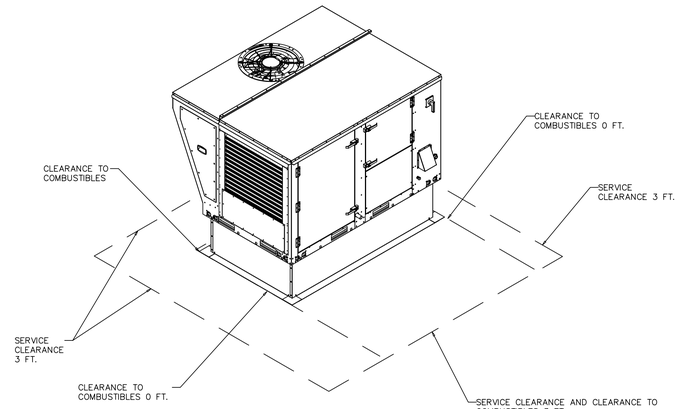






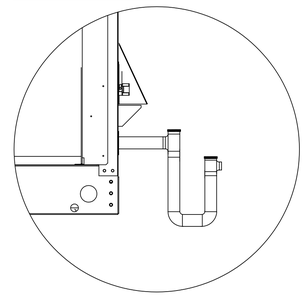


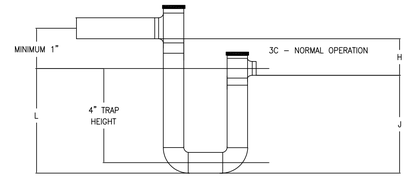




SIZE 1 – 1 CONDENSER

RTU CONDENSATE DRAIN TRAP DETAIL



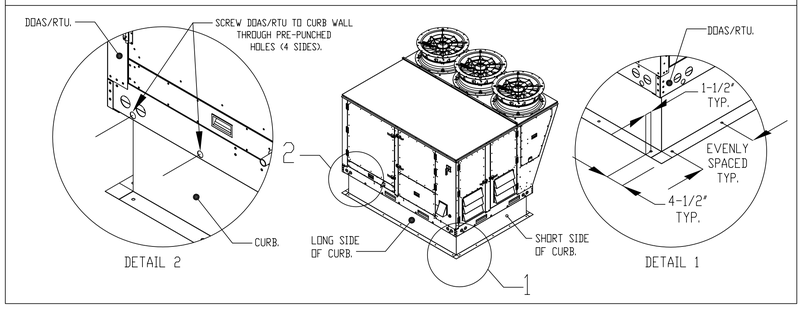


H = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1"
J = HALF OF H
L = H + J + PIPE DIAMETER + INSULATION

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



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REVISIONS

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C-Store McDonough
Mcdonough, GA, 30252

DATE: 5/13/2025

DWG.#: 7527971

DRAWN BY:

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

MASTER DRAWING

SHEET NO. 4

ARCHITECT OF RECORD:

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CHK'D BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

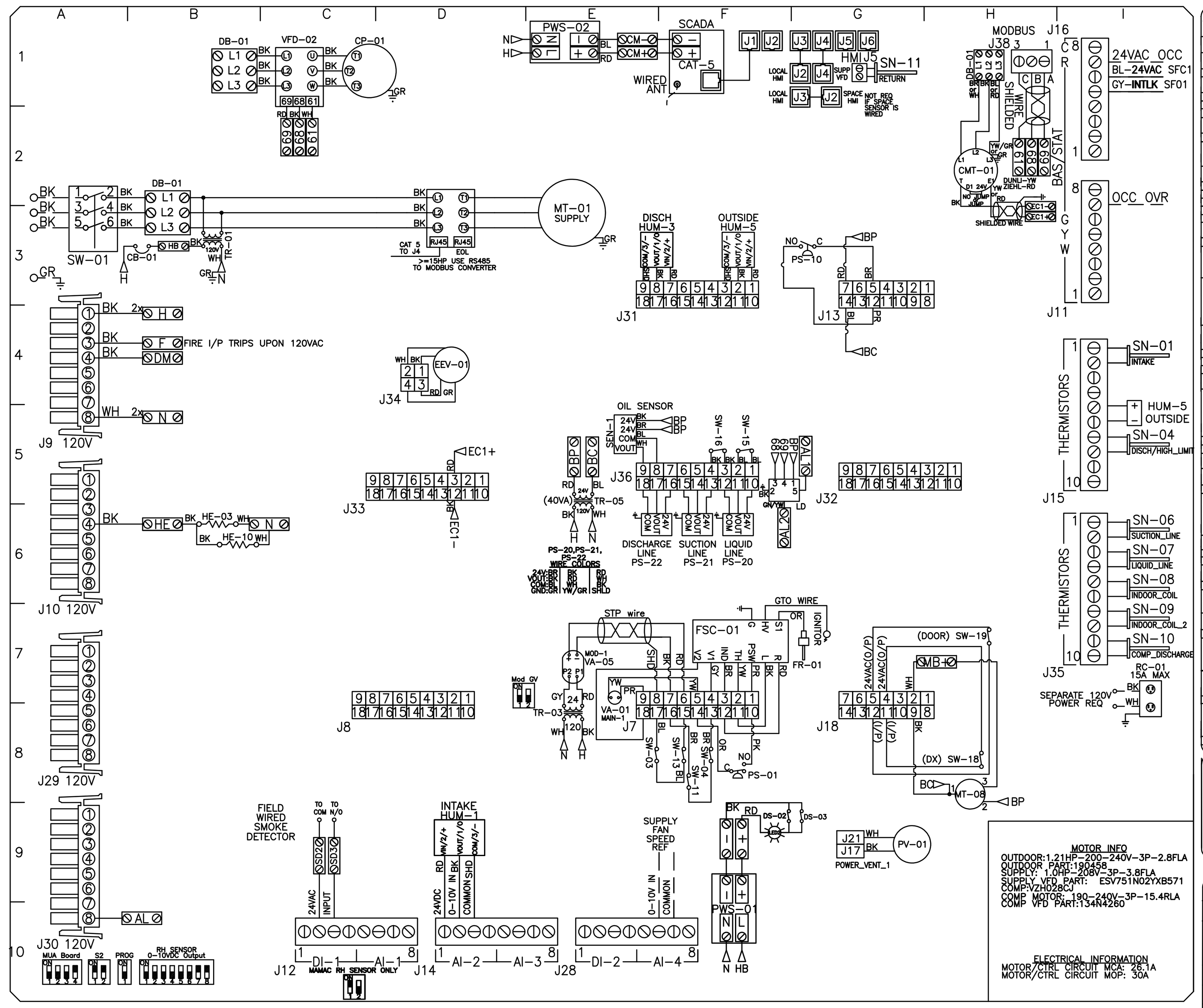
SHEET TITLE:

HOOD DETAILS

PROJECT NO: 24022

M303

REVIEWED FOR CODE COMPLIANCE
Approved: Scope of work indicated on the approved plans only. Permit and approved plans must be available on the jobsite at all times. Approval does not allow the violation of any adopted code or other regulation. Any violations of the International Fuel Gas Code shall be subject to stop work orders and revocation of the permit.
Ashley Kosbeck, ICC#10424881 2018 Mech, NC & IRC



MOTOR INFO
OUTDOOR:1.21HP-200-240V-3P-2.8FLA
OUTDOOR PART:190458
SUPPLY: 1.0HP-208V-3P-3.8FLA
SUPPLY VFD PART: ESV751N02YXB571
COMP:VZH028CJ
COMP MOTOR: 190-240V-3P-15.4RLA
COMP VFD PART:134N4260

ELECTRICAL INFORMATION
MOTOR/CTRL CIRCUIT MCA: 26.1A
MOTOR/CTRL CIRCUIT MOP: 30A

COMPONENT LIST

LABEL	DESCRIPTION	
CB-01	CIRCUIT_BREAKER	B3
SCADA	SCADA_COMM_MODULE	F1
CMT-XX	CONDENSING_MTR	G2
CB-02	CONV_OUT_BREAKER	I8
DB-01	DISTRIBUTION_BLOCK	B2
DS-XX	ELEC_DOOR_SW	F9
EEV-01	ELEC_EXP_VALVE_1	D4
FR-01	EVO/ECM-ACU+S1.1-MP	G7
FSC-01	FLAME_SAFETY_CTLR	C7
HE-03	CRANKCASE_HEATER	B6
HE-10	ACCUMULATOR_HEATER	B6
HUM-XX	HUM/TEMP_SENSOR	F5/B9
LED-XX	CAB_LED_STRIP	F9
MT-01	SUPPLY_MOTOR	E3
LED-XX	CAB_LED_STRIP	F9
MT-08	MB_DAMPER_MTR	H8
PS-01	VENT_PROVING_1	F8
PS-10	CLGGD_FILTER_SWITCH	G3
PS-20	LIQUID_LINE_PRES	F6
PS-21	SUCTION_LINE_PRES	F6
PS-22	DISCHARGE_LINE_PRES	F6
PV-XX	FURNACE_POWER_VENT	G9/H10
RC-01	CONV_OUTLET	I8
SD-01	SMOKE_DETECTOR	C9
SEN-1	OIL_SENSOR	F5
SN-XX	TEMP_SENSOR	I4/I5/I6/I7
SW-01	DISCONNECT_SWITCH	A3
SW-03	ROLL_OUT_1-1	F8
SW-04	FURN_HIGH_TEMP_1-1	F8
SW-11	FURN_HIGH_TEMP_1-2	F8
SW-13	ROLL_OUT_1-2	F8
SW-15	REFR_LOW_PRES_SW	F5
SW-16	REFR_HIGH_PRES_SW	F5
SW-18	DX_FLOAT_SWITCH	H8
SW-19	DOOR_SWITCH	H7
TR-01	CTRL_TRANSFMR	B3
TR-03	MOD_VALVE_TRFMR_1	E8
TR-05	BOARD_POWER_TRFMR	E5
TR-08	COND_FAN_TRFMR	G2
VA-01	MAIN_GAS_VALVE	E7
VA-05	MOD_GAS_VALVE	E7
VFD-01	SUPPLY_FAN_VFD	D3
VFD-02	COMP_VFD	C1

LEGEND
— — FIELD WIRING
—— FACTORY WIRING
BK- BLACK YW- YELLOW
BL- BLUE GY- GREY
BR- BROWN PR- PURPLE
OR- ORANGE RD- RED
WH- WHITE GR- GREEN
OR/BL- OR/BL STRIPE
BL/RD- BL/RD STRIPE
RD/GN- RD/GN STRIPE
WH/BL- WH/BL STRIPE

JOB NAME: C-Store McDonou...	
DRAWING TITLE	
DESCRIPTION OF OPERATION: MUA BOARD (DETAILS TO FOLLOW)	
JOB NO: 7527971	DRAWN BY: AUTO
TYPE: FACTORY	DATE: 5/13/2025
DWG NO: MW7527971-2	

SUPPLY DRIVE PARAMETER SETTINGS

P100	(START SOURCE) = 01 (TERMINAL STRIP)
P150	(TB-30 OUTPUT) = 1
P194	PASSWORD = 225
P410	MODBUS ADDRESS = 21

ADJUST MANUALLY ON ALL DRIVES	
P103	VFD MAX FREQUENCY
P107	00 (IF 120 OR 208 VAC)
	OR 01 IF(230, 480 OR 575VAC)
P108	MOTOR FLA X 100 / DRIVE OUTPUT RATING
P167	REFERENCE BUILD SHEET
P171	P108 - 1

*NOTE: THE DEFAULT FOR THE DRIVE IS "225".

All external control wires to motor speed control should be 16-20 AWG shielded multi-conductor cables and must not be run in the same conduit or raceway with any high power wiring. Ground Shielded Cable at the drive chassis ONLY.

PG. 11, 19, 23 OF THE DRIVE MANUAL DESCRIBES THE PROPER HANDLING OF THE VARIABLE FREQUENCY DRIVE.

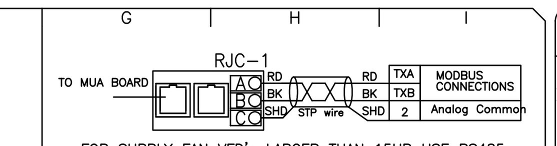
IT MAY BE REQUIRED TO FULLY POWER DOWN THE DRIVE AND TURN BACK ON IN ORDER TO INITIATE NEW PARAMETER SETTINGS.

**Min. and Max. Frequency Settings override all other Preset speeds/Parameters. Do not adjust these on the VFD. Min. and Max. Frequency should be adjust on the RTU HMI.

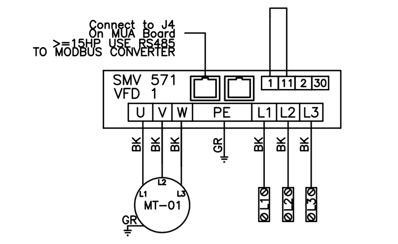
SMV 571 SERIES VFD

Terminal	Description
1	Digital Input:(Start/Stop)
11	Internal DC Supply for External Devices
2	Analog Common
30	Analog Output:Configurable with P150..P155
RJ45	MODBUS COMMUNICATION
PE	Ground Terminal
L1	3 Phase Input or Single Phase Input
L2	3 Phase Input or Single Phase Input
L3 (N)	3 Phase Input (Neutral for 120v)
U	3 Phase AC Motor
V	3 Phase AC Motor
W	3 Phase AC Motor

*Note: Not Suitable for Corner Grounded 3 Phase Input power



FOR SUPPLY FAN VFD's LARGER THAN 15HP USE RS485 TO MODBUS CONVERTER

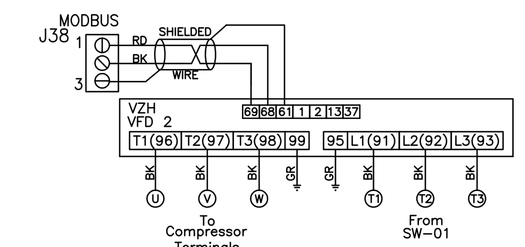


COMPRESSOR DRIVE PARAMETER SETTINGS MUST BE CONFIGURED BEFORE STARTUP

0-60	225
1-71	10 SECONDS
3-02	30
3-15	[0] NO FUNCTION
3-16	[0] NO FUNCTION
3-41	200.00s
3-42	200.00s
4-18	IF 208V = 76(028), 92(035), 108(044)
	IF 460/575V = 76(028), 92(035), 115(044)
8-01	[2] CTRL WORD ONLY
8-03	20 SECONDS
8-04	[2] STOP
8-30	[2] MODBUS RTU
8-31	1
8-32	19200
8-33	[0] EVEN PARITY, 1 STOP BIT
8-43-2	10
8-43-3	10
8-43-4	13
8-43-5	13
8-43-6	14
8-43-7	14
8-43-8	33
8-43-9	33
8-43-10	19
8-43-12	35
8-43-13	35
28-00	DISABLE
28-11	1440m
28-12	24h
28-15(14)	100Hz (3000RPM)
28-17(16)	140Hz (4200RPM)

*Must be programmed using software

*Changing 8-30 will reset 8-01 and 8-03 if programmed after 8-01 and 8-03 are set



VZH SERIES COMPRESSOR VFD

TERMINAL	FUNCTION
13	24+
37	Pressure Switch In
1	Relay 1 to oil solenoid
2	Relay 1 to oil solenoid
61	COM RS-485
68	N RS-485
69	P RS-485
95	INPUT Ground
L1 (91)	3 Phase Input or Single Phase Input
L2 (92)	3 Phase Input or Single Phase Input
L3 (93)	3 Phase Input
T1 (96)	Compressor
T2 (97)	Compressor
T3 (98)	Compressor
99	Compressor Ground

MOTOR INFO
OUTDOOR:1.21HP-200-240V-3P-2.8FLA
OUTDOOR PART:190458
SUPPLY: 1.0HP-208V-3P-3.8FLA
SUPPLY VFD PART: ESV751N02YXB571
COMP:VZH028CJ
COMP MOTOR: 190-240V-3P-15.4RLA
COMP VFD PART:134N4260

ELECTRICAL INFORMATION
MOTOR/CTRL CIRCUIT MCA: 26.1A
MOTOR/CTRL CIRCUIT MOP: 30A

RTU VFD SCHEMATIC

COMPONENT LIST

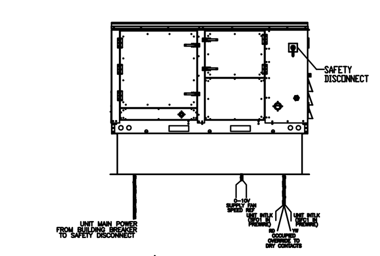
LABEL	DESCRIPTION
MT-01	Supply Motor
PWS-01	24VDC Power Supply
SW-01	Main Disconnect Sw
VFD-1	Supply Motor VFD
VFD-2	Compressor VFD

LEGEND
— — FIELD WIRING
—— FACTORY WIRING
BK- BLACK YW- YELLOW
BL- BLUE GY- GREY
BR- BROWN PR- PURPLE
OR- ORANGE RD- RED
WH- WHITE GR- GREEN
OR/BL- OR/BL STRIPE
BL/RD- BL/RD STRIPE
RD/GN- RD/GN STRIPE
WH/BL- WH/BL STRIPE

JOB NAME: C-Store McDonou...	
DRAWING TITLE	
DESCRIPTION OF OPERATION: MUA BOARD (DETAILS TO FOLLOW)	
JOB NO: 7527971	DRAWN BY: AUTO
TYPE: FACTORY	DATE: 5/13/2025
DWG NO: RTUVFD7527971-2	

RTU Installation Wiring

DRAWING NUMBER: INST7527971-2	JOB: C-Store McDonough		
	SHIP DATE: 5/13/2025	MODEL: CAS-HVAC1-I.125-15-5T-MPU	



BREAKER TO PRIMARY DISCONNECT
Responsibility Electrician
BREAKER
BREAKER 3PH 208 VOLT — L1, L2, L3, GROUND — DISCONNECT
CONTROL POWER. DO NOT WIRE TO GFCI OR SHUNT TRIP BEAKER.

MUA BOARD TO BLOWER SPEED REFERENCE
Responsibility Electrician
MUA BOARD: MUA J28 0-10 VOLT — 6 0-10 VIN, 7 COM — SPEED REF: VO+, VO-
EXTERNAL 0-10V REFERENCE INPUT TO CONTROL SUPPLY FAN SPEED

UNIT BOARD TO SMOKE DETECTOR
Responsibility Electrician
UNIT BOARD: SD2, SD3 — SMOKE DETECTOR: COM, N/O

HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

MUA BOARD TO DRY CONTACTS
Responsibility Electrician
MUA BOARD: MUA J16 — 5 UNIT INTLK, 6 24V AC — DRY CONTACTS: SFO1, SFC1
UNIT WILL BE FORCED ON WHEN CONTACTS CLOSE

MUA BOARD TO OCCUPIED OVERRIDE
Responsibility Electrician
MUA BOARD: MUA J16, MUA J11 — 7 24 VAC, 7 OCC_OVR — OCCUPIED OVERRIDE: RTUO1, RTUC1
UNIT WILL BE FORCED INTO OCCUPIED WHEN CONTACTS CLOSE

CONVENIENCE OUTLET TO SEPARATE 120V
Responsibility Electrician
CONVENIENCE OUTLET: 120V CONVENIENCE OUTLET — H, N — SEPARATE 120V BREAKER: 120V HOT NEUTRAL

Installed Options
OCCUPIED OVERRIDE
SUPPLY FAN SPEED REFERENCE

NOTES
—— Field Wiring

WIRE COLOR
BK - BLACK YW - YELLOW
BL - BLUE GR - GREEN
BR - BROWN GY - GRAY
OR - ORANGE PR - PURPLE
RD - RED PK - PINK
WH - WHITE

REVISIONS

DESCRIPTION	DATE:

CAPTIVEAIRE
www.captiveaire.com
Atlanta Mechanical
1395 S. Marietta Pkwy, Bldg 100, Ste 105, Marietta, GA, 30067 PHONE: (470) 419 - 4768 EMAIL: reg122@captiveaire.com

C-Store McDonough
Mcdonough, GA, 30252

DATE: 5/13/2025
DWG.#: 7527971
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 5

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL: GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27385 JONATHAN W. EDWARDS

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Kennesaw, Georgia 30144
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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: CAPTIVEAIRE
CHK'D BY: JWE

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
HOOD DETAILS

PROJECT NO: 24022

M304

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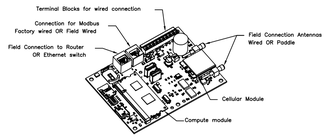
REVIEWED FOR CODE COMPLIANCE
HENRY COUNTY
Ashley Roebuck, ICC#10420485 8:24 am, Nov 12 2025

ELECTRICAL PACKAGE – JOB#7527971

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KEF-1	EXHAUST	1	0.750	115	8.9
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	1.000	208	3.8



CASLink Monitor and Control

- *Hood control panel to support communications to cloud-based Building Management System.*
- *Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.*

MONITORING AND CONTROL POINTS LIST

DCV Packages	*Function*
Room Temperature	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Fan Speed	*MONITOR*
Fan Amperage	*MONITOR*
Fan Power	*MONITOR*
VFD Faults	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Prep Time Button	*MONITOR & CONTROL*
Fans Button	*MONITOR & CONTROL*
Lights Button	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

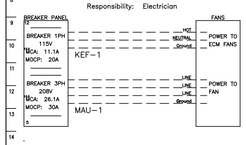
SC Packages	*Function*
Room Temperature(s)	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Fans Button(s)	*MONITOR & CONTROL*
Lights Button(s)	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

JOB NO 7527971 | MODEL NUMBER SC-311110MA | JOB NAME C-Store McDonough | DRAWN BY | DATE 5/13/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

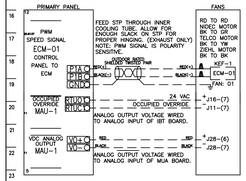
DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, FanOS On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

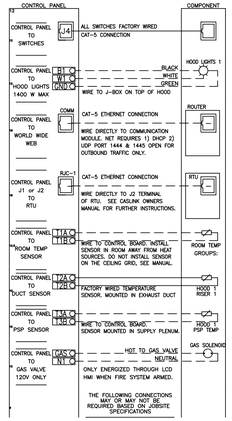
BREAKER PANEL TO FANS
Responsibility: Electrician

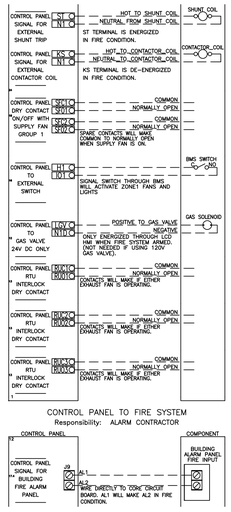


CONTROL PANEL TO FANS
Responsibility: Electrician



CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician



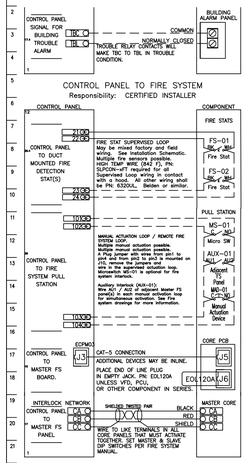


CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR

JOB NO 7527971 | MODEL NUMBER SC-311110MA | JOB NAME C-Store McDonough | DRAWN BY | DATE 5/13/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, FanOS On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



JOB NO 7527971 | MODEL NUMBER SC-311110MA | JOB NAME C-Store McDonough | DRAWN BY | DATE 5/13/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 1444 FS – 4.0/4.0.

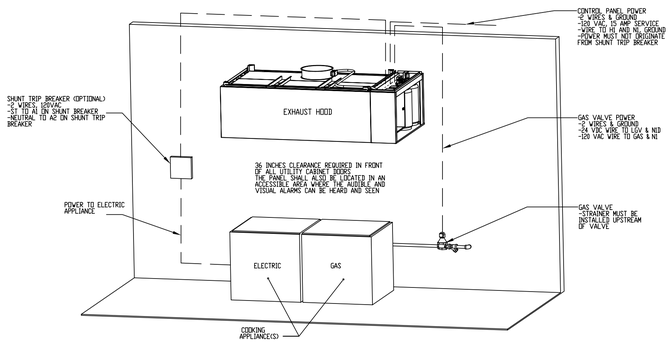
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

FS–1: MASTER

ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER ENCLOSED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUI, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AUI, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N3 OF 24 VDC/ GAS & N1 OF 120 VAC	RED/RED/GREEN	24 VDC OR 120 VAC	< 10 AMPS	IF 24 VDC – 2 WIRES & GROUND, N3 TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC – 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 7527971 | MODEL NUMBER SC-311110MA | JOB NAME C-Store McDonough | DRAWN BY | DATE 5/13/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-4

DESCRIPTION OF OPERATION:
Fire System #1 1444 FS – 4.0/4.0.

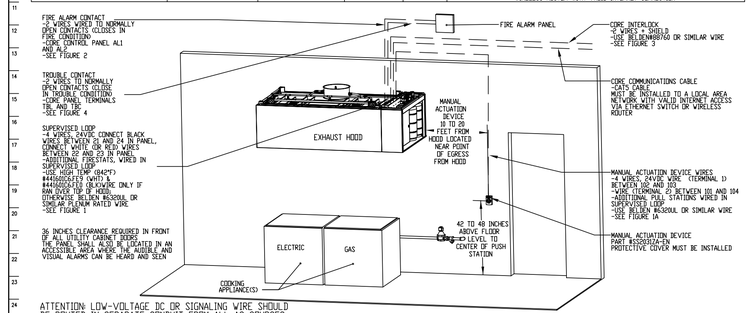
TANK PROTECTION LOW-VOLTAGE DETAIL

10/01/2023 Rev. 3

FS–1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), *REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST
*REMOTE FIRESTAT(S) MAYBE BE REQUIRED DEPENDING ON THE DUCT LAYOUT AND HOOD TEMPERATURE RATING. REFERENCE MANUAL FOR LOCATION AND GUIDELINES.

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	102 AND 104 102 AND 103	1 & 2	24 VDC	< 10 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED 90° SURFACE MOUNTED USE COVER P/SEMKO# SM-SA5518
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 10 AMPS	WIRE FIRE SENSOR WHITE WIRE BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) #44160250AFE9 (WHT) & #44160250AFE8 (BLK)WIRE OR SIMILAR ONLY IF RAN OR EXPOSED OTHERWISE BELDEN #82500JL OR SIMILAR PLENUM RATED WIRE SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) CA, TO CORE SYSTEM (2) CA, CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB, CORE SYSTEM (1) CC, TO CORE SYSTEM (2) CC. USE BELDENM 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<10 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

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REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVEAIRE
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1395 S. Marietta Pkwy, Bldg 100, Ste 105, Marietta, GA, 30067 PHONE: (470) 419 – 4768 EMAIL: reg122@captiveaire.com
www.captiveaire.com

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:
GEORGIA REGISTERED No. 27385 PROFESSIONAL ENGINEER JONATHAN W. EDWARDS

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3450 Acworth Due West Road
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Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: CAPTIVEAIRE
CHKD BY: JWE

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

C-Store McDonough
Mcdonough, GA, 30252

DATE: 5/13/2025
DWG.#: 7527971
DRAWN BY:
SCALE: 3/4" = 1'–0"
MASTER DRAWING
SHEET NO. 6

SHEET TITLE:
HOOD DETAILS

PROJECT NO: 24022

M305

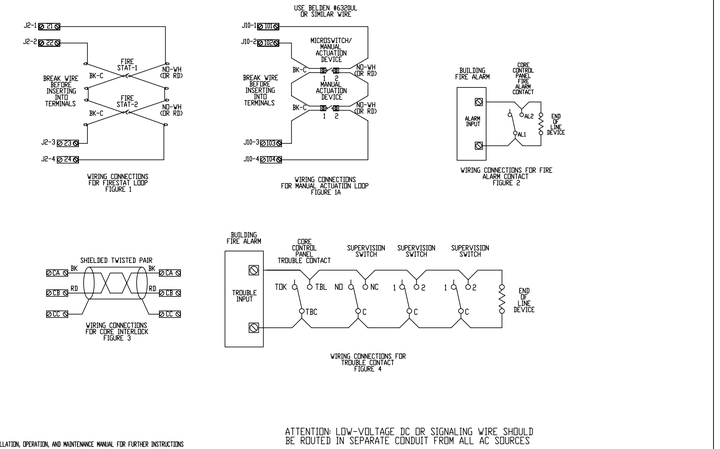
REVIEWED FOR CODE COMPLIANCE
Approved: Cherokee County
Building Division
Review of these plans does not relieve the applicant of responsibility for compliance with the adopted codes and ordinances. Review is based on information provided by the applicant. Any omissions or misstatements shall void this approval. Approval of these plans does not authorize the violation of any adopted code or ordinance. Approval is granted for the work shown on these plans only. Any changes must be submitted for approval.
Ashley Kosteck, ICC#12424080, 7/31/26, Rev 11 APR 2025

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION:
7527971	SC-311110MA	DATE 5/13/2025	ENG NO ECP #1-5	Fire System #1 TANK PS - 4.0/4.0.
	JOB NAME C-Store McDonough			

TANK PROTECTION LOW-VOLTAGE FIGURES

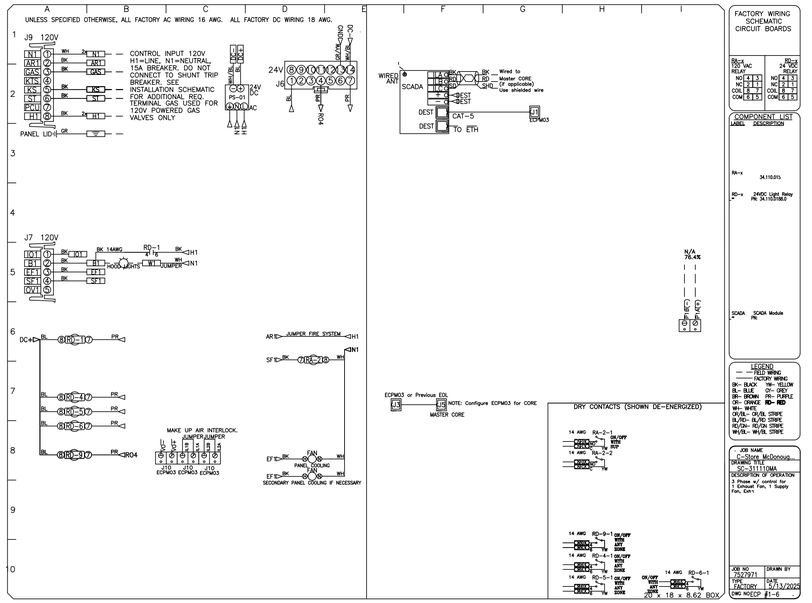
10/01/2023 Rev. 17

FS-1: MASTER



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

RELAY	120 VAC	24 VDC
NO	4	3
NC	2	1
COIL	3	2
COM	1	5

COMPONENT LIST

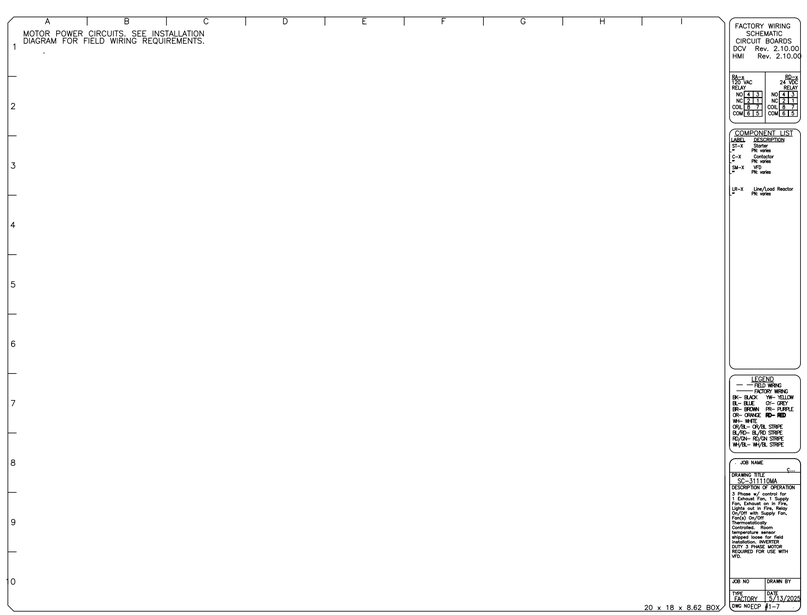
LABEL	DESCRIPTION
RA-x	34.110.015
RY-x	24VDC Light Relay PN: 34.10.9.024.0
SCADA	SCADA Module PN:

LEGEND — FIELD WIRING — FACTORY WIRING

BK= BLACK YW= YELLOW
BL= BLUE OR= ORANGE
BR= BROWN PR= PURPLE
GR= GRAY RD= RED
WH= WHITE
GR/BL= GR/BL STRIPE
BL/RD= BL/RD STRIPE
RD/GN= RD/GN STRIPE
WH/BL= WH/BL STRIPE

JOB NAME C-Store McDonough
DRAWING TITLE SC-311110MA
DESCRIPTION OF OPERATION
1 Exhaust Fan, 1 Supply Fan, Exh1

JOB NO	DRAWN BY
7527971	CHK'D
TYPE FACTORY	DATE 5/13/2025
DWG NO/ECP #1-6	



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS
DCV Rev. 2.10.00
HMI Rev. 2.10.00

RELAY	120 VAC	24 VDC
NO	4	3
NC	2	1
COIL	3	2
COM	1	5

COMPONENT LIST

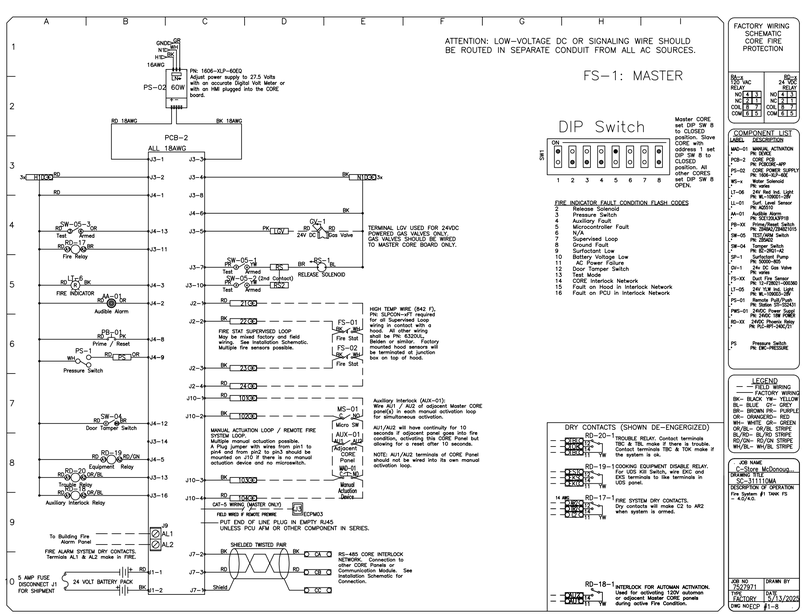
LABEL	DESCRIPTION
2CR-x	PN: relay
C-X	Contactor PN: wire
SM-X	MTR PN: wire
LR-X	Line/Load Reactor PN: wire

LEGEND — FIELD WIRING — FACTORY WIRING

BK= BLACK YW= YELLOW
BL= BLUE OR= ORANGE
BR= BROWN PR= PURPLE
GR= GRAY RD= RED
WH= WHITE
GR/BL= GR/BL STRIPE
BL/RD= BL/RD STRIPE
RD/GN= RD/GN STRIPE
WH/BL= WH/BL STRIPE

JOB NAME C-...
DRAWING TITLE SC-311110MA
DESCRIPTION OF OPERATION
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust fan in VFD, Fan(s) On/Off with Supply Fan, Fan(s) On/Off Independently, Controlled Room temperature sensor provided for wire field installation. WARNING DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

JOB NO	DRAWN BY
7527971	CHK'D
TYPE FACTORY	DATE 5/13/2025
DWG NO/ECP #1-7	



FACTORY WIRING SCHEMATIC CORE FIRE PROTECTION

RELAY	120 VAC	24 VDC
NO	4	3
NC	2	1
COIL	3	2
COM	1	5

COMPONENT LIST

LABEL	DESCRIPTION
MAD-01	MANUAL ACTIVATION DEVICE
PCB-2	CORE PCB PN: PCBCORE-MFP
PS-02	CORE POWER SUPPLY PN: 1606-XLP-60E
SV-x	Water Solenoid PN: 6320UL
LT-06	24V Red Led Light PN: 6_10001-30F
LI-01	Liquid Level Sensor PN: 6320UL
AA-01	Audible Alarm PN: SD100LXSPWB
PB-XX	Prime/Reset Switch PN: 10-110001-000300
SW-05	TEST/ARM Switch PN: 2BM22
SW-04	Door Switch PN: 2BM22-M12
SP-1	Sprinkler Pump PN: 10000-800
DV-1	24v DC Gas Valve PN: 6320UL
FS-XX	Duct Fire Sensor PN: 10-110001-000300
LT-05	24V YLW Led Light PN: 6_10001-30Y
PS-01	Pressure Switch PN: Dakke: 551-102XU
PWS-01	24VDC Power Supply PN: DRDC 10W PDB5
RD-XX	24VDC Phoenix Relay PN: RCL-SPT-24VDC-2
PS	Pressure Switch PN: EMC-PRESSURE

LEGEND — FIELD WIRING — FACTORY WIRING

BK= BLACK YW= YELLOW
BL= BLUE OR= ORANGE
BR= BROWN PR= PURPLE
GR= GRAY RD= RED
WH= WHITE GR= GREEN
GR/BL= GR/BL STRIPE
BL/RD= BL/RD STRIPE
RD/GN= RD/GN STRIPE
WH/BL= WH/BL STRIPE

JOB NAME C-Store McDonoug...
DRAWING TITLE SC-311110MA
DESCRIPTION OF OPERATION
Fire System #1 TANK PS - 4.0/4.0.

JOB NO	DRAWN BY
7527971	CHK'D
TYPE FACTORY	DATE 5/13/2025
DWG NO/ECP #1-8	

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REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: CAPTIVAIRE
CHK'D BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

C-Store McDonough
Mcdonough, GA, 30252

DATE: 5/13/2025

DWG.#: 7527971

DRAWN BY:

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

MASTER DRAWING

SHEET NO. 7

SHEET TITLE:

HOOD DETAILS

PROJECT NO: 24022

M306

REVIEWED FOR CODE COMPLIANCE
This plan has been reviewed under the applicable laws in effect at the time of permitting. Cherokee County does not warrant the accuracy of the plans and shall not be responsible for any errors which may be contained in the plans and shall not be responsible for any omissions in the plans. The approval of these plans shall not prevent the correction of any errors or omissions.
Building Products, ICC#ESR2698. 2018 IRC & IBC

SCHEDULE – PLUMBING FIXTURES & DRAINS

ITEM	DESCRIPTION	DIRECT		WATER CONNECTION		NOTES
		WASTE	VENT	CW	HW	
WC1	WATER CLOSET – FLOOR MTD FLUSH VALVE	4"	2"	1"	–	1
WC2	WATER CLOSET – H/C FLOOR MTD FLUSH VALVE	4"	2"	1"	–	2
UR1	URINAL – WALL HUNG	2"	2"	3/4"	–	3
L1	LAVATORY – H/C UNDERMOUNT	1–1/2"	2"	3/8"	3/8"	4
WH1	NON–FREEZE EXTERIOR WALL HYDRANT	–	–	3/4"	–	5
MV1	THERMOSTATIC MIXING VALVE	–	–	1/2"	1/2"	6
FD1	FLOOR DRAIN – GENERAL	3"	2"	–	–	7
FD2	FLOOR DRAIN – KITCHEN	3"	2"	–	–	8
FS1	FLOOR SINK	4"	2"	–	–	9
FCO	FLOOR CLEANOUT	SEE PLAN	–	–	–	10
GCO	EXTERIOR GRADE CLEANOUT	SEE PLAN	–	–	–	11
HD1	HUB DRAIN – GENERAL	3"	2"	–	–	12
TP1	TRAP PRIMER VALVE	–	–	1/2"	–	13
MS1	MOP SINK	3"	2"	1/2"	1/2"	14
WHA"X"	WATER HAMMER ARRESTOR	–	–	1/2"	–	15

NOTES

1. FLOOR MOUNTED, FLUSH VALVE WATER CLOSET: AMERICAN STANDARD "MADERA FLOWISE" 2234.001, 1.28 GPF, WHITE VITREOUS CHINA, TOP OF RIM AT 15" AFF, 1–1/2" TOP SPUD. PROVIDE EXPOSED BATTERY POWERED, SENSOR OPERATED AUTOMATIC FLUSH VALVE, 1.28 GPF, CHROME PLATED AMERICAN STANDARD "SELECTRONIC" 6065.121.002. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER AMERICAN STANDARD 5905.100, 4"x4"x4" CLOSET FLANGE WITH WAX SEAL.
2. HANDICAP ACCESIBLE, FLOOR MOUNTED, FLUSH VALVE WATER CLOSET: AMERICAN STANDARD "MADERA FLOWISE" 3043.001, 1.28 GPF, WHITE VITREOUS CHINA, TOP OF RIM AT 16½" AFF, 1–1/2" TOP SPUD. PROVIDE EXPOSED BATTERY POWERED, SENSOR OPERATED AUTOMATIC FLUSH VALVE, 1.28 GPF, CHROME PLATED AMERICAN STANDARD "SELECTRONIC" 6065.121.002. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER AMERICAN STANDARD 5905.100, 4"x4"x4" CLOSET FLANGE WITH WAX SEAL.
3. WALL HUNG URINAL: AMERICAN STANDARD "WASHBROOK" 6590.001, WHITE VITREOUS CHINA, HIGH EFFICIENCY "WATERSENSE" LISTED. PROVIDE ZURN 1222 SUPPORT SYSTEM. COORDINATE MOUNTING HEIGHT(S) AND ADA DESIGNATIONS WITH ARCHITECTURAL DRAWINGS. SIPHON–JET, 3/4" TOP SPUD, 2" OUTLET. PROVIDE EXPOSED URINAL FLUSHOMETER (SENSOR OPERATED, BATTERY POWERED) CHROME PLATED, 0.5 GPF AMERICAN STANDARD "SELECTRONIS" 6063.051.002.
4. UNDERMOUNT LAVATORY: AMERICAN STANDARD "OVALYN" 0496.221 AND BATTERY POWERED, SENSOR OPERATED FAUCET WITH POLISHED CHROME FINISH ZURN "AQUASENSE" Z6915–XL. HANDICAP DRAIN OFFSET WITH GRID DRAIN ZURN 8746–PC AND CHROME PLATED P–TRAP ZURN Z8701–PC. CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH 12" LONG X ⅜" FLEX SUPPLIES MCGUIRE H165. WHERE NOT CONCEALED BY COUNTER SHROUD, INSULATE OFFSET, TRAP AND SUPPLY LINES TRUEBRO "LAVGUARD #103 EZ.
5. EXTERIOR NON–FREEZE WALL HYDRANT: WOODFORD MODEL B65, FREEZELESS BRASS WALL HYDRANT WITH BRASS BOX AND LOCKING DOOR, INTEGRAL VACUUM BREAKER, 3/4" HOSE THREAD NOZZLE, AND LOOSE KEY TEE. INSTALL AT 24" ABOVE FINISHED GRADE. COORDINATE BARREL LENGTH WITH WALL THICKNESS.
6. THERMOSTATIC MIXING VALVE: SYMMONS MODEL 4–10A POINT–OF–USE THERMOSTATIC MIXING VALVE, ALL ROUGH BRONZE CONSTRUCTION. 1/2" INLETS, 1/2" OUTLETS. MOUNT IN SUPPLY LINES TO ALL HAND SINKS. SET TO 105°F
7. FLOOR DRAIN – GENERAL: JAY R. SMITH MODEL 2010C–P050–NB CAST IRON BODY FLOOR DRAIN WITH ADJUSTABLE STRAINER HEAD, 3" INSIDE CAULK OUTLET, 5" DIA. NICKEL BRONZE STRAINER, AND 1/2" TRAP PRIMER CONNECTION.
8. FLOOR DRAIN – KITCHEN: JAY R. SMITH MODEL 2350C–NB CAST IRON BODY FLOOR DRAIN WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, 3" INSIDE CAULK OUTLET, 8" DIA. NICKEL BRONZE STRAINER, AND CAST IRON SEDIMENT BUCKET, SEE DETAIL.
9. FLOOR SINK: JAY R. SMITH MODEL 3430C–14 CAST IRON BODY FLOOR SINK WITH "SANI–CEPTOR" ACID–RESISTANT COATING, 8" DEEP BASIN, FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, 3" INSIDE CAULK OUTLET, 12" SQUARE STRAINER WITH 2–1/2" DIA. CENTER HOLE CUT–OUT, AND ALUMINUM DOME STRAINER.
10. FLOOR CLEANOUT: JAY R. SMITH 4025 CAST IRON BODY FLOOR CLEANOUT WITH ADJUSTABLE SCORIATED NICKEL BRONZE TOP. SEE DETAIL AND PLAN FOR SIZE.
11. GRADE CLEANOUT: JAY R. SMITH 4288–TP CAST IRON CLEANOUT WITH BRONZE CLEANOUT PLUG. SEE DETAIL AND PLAN FOR SIZE.
12. HUB DRAIN: SIOUX CHIEF 832 SERIES, ADJUSTABLE HUB DRAIN FIXTURE, PROVIDE STAINLESS STEEL MESH DEBRIS BASKET. PROVIDE ASSE 1072 TRAP SEALER ZURN Z1072.
13. TRAP PRIMER VALVE: PRECISION PLUMBING PRODUCTS OREGON–1 AUTOMATIC TRAP PRIMER VALVE. ROUTE TRAP PRIMER LINE TO DRAIN, PER THE PLANS.
14. MOP SINK: 24"x24" FLOOR BASIN, FIAT MSB2424 AND SERVICE SINK FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK, ¾" HOSE THREAD ON SPOUT 830–AA. PROVIDE HOSE AND BRACKET 832–AA. MOP HANGAR 889–CC, STAINLESS STEEL BUMBER GUARD E–88–AA AND STAINLESS STEEL WALL GUARD MSG2424.
15. WATER HAMMER ARRESTOR: JAY R. SMITH 5000 SERIES STAINLESS STEEL WATER HAMMER ARRESTOR. PDI SIZE DESIGNATION INDICATED ON PLANS ("X").

ACCEPTABLE MANUFACTURERS:
VITREOUS CHINA FIXTURES: KOHLER, AMERICAN STANDARD, ELJER
FLUSH VALVES: SLOAN, ZURN.
FAUCETS: CHICAGO, DELTA, KOHLER, ZURN.
FIXTURE SUPPORTS: JAY R. SMITH, JOSAM, ZURN, WADE.
ELECTRIC WATER COOLERS: OASIS, HAWS, HALSEY TAYLOR, ELKAY
DRAINS & CLEANOUTS: JAY R. SMITH, JOSAM, ZURN, WADE.
WALL HYDRANTS: WOODFORD, JAY R. SMITH, ZURN.
WATER HAMMER ARRESTORS: JAY R. SMITH, SIOUX CHIEF, ZURN.
THERMOSTATIC MIXING VALVES: SYMMONS, LAWLER.

PLUMBING LEGEND

ABBREVIATION	SYMBOL	DESCRIPTION
CW		POTABLE COLD WATER
HW		POTABLE HOT WATER (140° F)
HW	TEMP'F	POTABLE HOT WATER (TEMPERED)
HWR		POTABLE HOT WATER RETURN
FW	F	FILTERED POTABLE COLD WATER
S, W, SAN		SOIL, WASTE OR SANITARY (BELOW FLR. U.N.O.)
GW	GW	GREASE TRAP WASTE LINE (BELOW FLR. U.N.O.)
V		VENT
G	G	NATURAL GAS LINE
TP	TP	TRAP PRIMER LINE
DN		PIPE TURNING DOWN
UP		PIPE TURNING UP
		PIPE TURNING DOWN W/ TEE
BV		BALL VALVE
GV		GATE VALVE
		GLOBE VALVE
PRV		PRESSURE REDUCING VALVE
		AGA RATED GAS SHUT–OFF VALVE
GPR		GAS PRESSURE REGULATOR
	S	SOLENOID/AUTOMATIC CONTROL VALVE
BFP		BACKFLOW PREVENTER (SPECIFY TYPE)
CV		CHECK VALVE
		STRAINER
		UNION
		THERMOMETER
PG	P	PRESSURE GAUGE WITH GAUGE COCK
WHA		WATER HAMMER ARRESTOR
		VACUUM RELIEF VALVE
NFWH		NON–FREEZE WALL HYDRANT
GCO/FCO		GRADE CLEANOUT / FLOOR CLEANOUT
	C	P–TRAP
FD	C	FLOOR DRAIN
FS	C	FLOOR SINK
HD	C	HUB DRAIN

PLUMBING GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES ADOPTED BY THE LOCAL AUTHORITIES.
2. THE CONTRACT DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO CONVEY A FUNCTIONAL PLUMBING SYSTEM AND TO DEPICT THE GENERAL LOCATION OF THE SYSTEM COMPONENTS.
3. CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH ALL THE REQUIREMENTS OF THE PROJECT. NOTIFY THE A/E OF ANY OBSERVED DISCREPANCIES AND/OR AMBIGUITY IN THE CONTRACT DOCUMENTS SUCH THAT THESE MAY BE RESOLVED PRIOR TO SUBMISSION OF PRICING BIDS.
4. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THE CONTRACT DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.
5. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS AND THE LOCAL AHJ.
6. CONTRACTOR SHALL THOROUGHLY CLEAN THEIR WORK AREA DAILY. THE CONTRACTOR SHALL REMOVE ALL TRASH OR SCRAP CAUSED BY THEIR SCOPE OF WORK AT COMPLETION OF WORK.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR PROPER EQUIPMENT INSTALLATION PRIOR TO SUBMITTING EQUIPMENT SHOP DRAWINGS FOR APPROVAL.
8. CONTRACTOR SHALL VERIFY ALL VOLTAGE AND POWER REQUIREMENTS AND COORDINATE WITH ELECTRICAL CONTRACTOR AS REQUIRED.
9. ALL SYSTEMS SHALL BE CLEAN OF FOREIGN MATERIAL AND ROUGH SPOTS PRIOR TO BEING PLACED IN SERVICE AND BEFORE OPERATIONAL TEST ARE PERFORMED.
10. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, TRAPS, CLEAN OUTS, MOTORS, CONTROLLERS, DRAIN POINTS, ETC. IF REQUIRED FOR ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY, AND ANY CHANGE FOR THAT PURPOSE SHALL BE SUBMITTED FOR APPROVAL AND FIELD DOCUMENTED ON REDLINE DRAWING PRINTS.
11. CONTRACTOR IS PROHIBITED FROM USING LEAD BASED SOLDER FOR ANY SYSTEM WHICH COMES IN CONTACT WITH DOMESTIC, OR POTABLE WATER.
12. CONTRACTOR AND MATERIAL SUPPLIERS SHALL BE RESPONSIBLE FOR INSPECTION OF JOB CONDITIONS AFFECTING THE INSTALLATION OF AN ITEM AND FOR TAKING ALL FIELD MEASUREMENTS PRIOR TO THE FABRICATION OR PURCHASE OF THE ITEM TO ENSURE THAT THE ITEM CONCERNED WILL INTEGRATE PROPERLY WITH ALL ADJACENT MATERIALS AND WILL FIT ALL OTHER CONDITIONS AS THE EXIST OR WILL EXIST IN THE FINISHED BUILDING. SLEEVES, ANCHORS OR ITEMS EMBEDDED IN OR AFFECTING OTHER PORTIONS OF THE WORK SHALL BE LOCATED AND SET WHILE SUCH PORTIONS OF THE WORK ARE IN PROGRESS.
13. UNLESS OTHERWISE SPECIFIED, ALL ANCHORS, BOLTS, SCREWS, FITTINGS, FILLER, HARDWARE, ACCESSORIES, TRIM AND OTHER PARTS REQUIRED FOR, OR IN CONNECTION WITH, AN ITEM OR MATERIAL TO MAKE A COMPLETE, SERVICEABLE, FINISHED AND QUALITY INSTALLATION SHALL BE FURNISHED AS PART OF THE ITEM OR MATERIAL, WHETHER CALLED FOR OR NOT.
14. UNLESS OTHERWISE SPECIFICALLY MENTIONED, ALL ITEMS AND PARTS THEREOF THAT ARE MADE OF STEEL, IRON OR OTHER FERROUS METAL THAT ARE NOT GALVANIZED, PLATED OR OTHERWISE SPECIFIED TO BE FACTORY FINISHED, SHALL BE CLEANED AND PAINTED WITH ONE COAT OF HIGH QUALITY RUST INHIBITIVE METALLIC PRIMER. AFTER INSTALLATION, ALL EXPOSED METAL CONNECTIONS AND ABRASIONS SHALL BE TOUCHED–UP WITH THE SAME MATERIAL AS THE SHOP COAT AND LEFT IN GOOD CONDITION FOR FINAL FINISHING, IF REQUIRED.
15. ALL ITEMS SHALL BE FURNISHED AND INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND WRITTEN RECOMMENDATIONS. ALL WORKING PARTS SHALL BE PROPERLY ADJUSTED AFTER INSTALLATION AND LEFT IN PERFECT WORKING ORDER. ITEMS IN ALL CASES SHALL BE INSTALLED PLUMB.
16. ALL DIMENSIONS SHOWN ARE NOMINAL DIMENSIONS, EQUIPMENT AND CLEARANCES SHOWN SHALL BE COMPLIED WITH AS MINIMUM REQUIREMENTS.
17. PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A UL LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MFR'S LISTED DETAILS AND SPECS.
18. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY FEES, PERMITS AND INSPECTIONS FOR APPLICABLE PORTIONS OF THE WORK.
19. LAYOUT SHOWN IS DIAGRAMMATIC. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS TO ENSURE ALL PLUMBING WORK IS PROVIDED TO FACILITATE PLUMBING SERVICES FOR ALL EQUIPMENT PROVIDED ON THE PROJECT, NEW OR EXISTING TO REMAIN. PROVIDE NECESSARY OFFSETS, RISES, AND PIPING TO COORDINATE WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES.
20. PLUMBING FIXTURES SHOWN ON FLOOR PLANS ARE ARCHITECTURAL SYMBOLS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATION OF PLUMBING FIXTURES. (IE SINK SIZE AND COUNTERTOP SPACE, ETC.) PLUMBING FIXTURE SCHEDULE GOVERNS EXACT TYPE AND CONFIGURATION OF EACH FIXTURE.
21. 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, OWNER FURNISHED EQUIPMENT, 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 FIXTURE OR EQUIPMENT, MANUFACTURERS INSTALLATION INSTRUCTIONS.
22. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE CIVIL DRAWINGS AND ACTUAL SITE CONDITIONS TO ENSURE SANITARY, STORM AND GREASE WASTE INVERTS AVAILABLE ON SITE WILL ACCOMMODATE THE PLANNED BUILDING GRAVITY DRAINAGE PIPING. REPORT ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
23. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT. REPORT ANY OBSERVED DISCREPANCIES TO THE A/E PRIOR TO COMMENCING WITH THE WORK.
24. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UNDERSLAB PLUMBING WITH THE STRUCTURAL FRAMING DRAWINGS, STRUCTURAL FOUNDATION DRAWINGS, GRADE BEAMS, THICKENED SLABS, AND ALL FOOTINGS.
25. COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASING EQUIPMENT. SHOP DRAWINGS SHALL INDICATE VOLTAGE, PHASE, MINIMUM CIRCUIT AMPACITY, AND MAXIMUM OVERCURRENT PROTECTION.
26. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS FOR ADEQUATE WALL THICKNESS TO ENSURE ALL SANITARY PIPING, VENT PIPING, WATER PIPING, WALL CLEANOUTS, HOSE BIBBS, NON FREEZE HOSE BIBBS, AND RECESSED ACCESS PANELS WILL FIT IN WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WITH THE WORK.
27. NO PLUMBING WATER PIPING IS ALLOWED IN AN EXTERIOR WALL. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF CHASE SPACE IS INADEQUATE OR IF FIXTURES ARE LOCATED ON OUTSIDE WALLS. ROUTE ALL PIPING ON WARM SIDE OF BUILDING INSULATION.
28. PRESSURE TESTS SHALL BE PERFORMED TO PROVE PIPING SYSTEMS INSTALLED TO BE TIGHT UNDER PRESSURE AND DURATION AS FOLLOWS: PRESSURE PIPING: MAINTAIN 150 PSI HYDROSTATIC PRESSURE FOR 1 HOUR.
NATURAL GAS PIPING: MAINTAIN 10 PSI AIR PRESSURE FOR 24 HOURS, OR AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

TEST BY SECTION OR BY ENTIRE SYSTEM. CLOSE OFF OPENINGS WITH PLUGS OR SECTIONALIZING VALVES. PROVE TIGHTNESS OF SYSTEM WITHOUT LOSS OF TEST LEVEL OR PRESSURE. CORRECT ANY LEAKS AND RETEST.
29. AFTER POTABLE WATER SYSTEM HAS BEEN PROVEN TO BE TIGHT UNDER PRESSURE, DISINFECT THE PIPING SYSTEM IN ACCORDANCE WITH FEDERAL SPECIFICATION BB–C–120 AND THE FOLLOWING:

DRAIN AND REFILL PIPING SYSTEM WITH WATER CONTAINING 50 PARTS PER MILLION AVAILABLE CHLORINE, LET STAND FOR 6 HOURS, DRAIN, AND FLUSH CHLORINATED WATER FROM SYSTEM BEFORE PLACING IN SERVICE. SUBSEQUENT TO THE DISINFECTING OF THE POTABLE WATER PIPING SYSTEM, WATER SAMPLES SHALL BE SENT TO THE LOCAL HEALTH DEPARTMENT (LHD) OR INDEPENDENT LABORATORY APPROVED BY THE LHD FOR TESTING. APPROVAL SHALL BE OBTAINED FROM THE LHD OR INDEPENDENT LABORATORY BEFORE THE POTABLE WATER SYSTEM IS PLACED INTO SERVICE. PROVIDE CERTIFIED REPORTS TO ARCHITECT. MARK ALL FAUCETS, SINKS AND VALVES NON POTABLE, DO NOT DRINK UNTIL DISINFECTION IS COMPLETED.

UPON COMPLETION OF CLEANING, FLUSHING AND CHLORINATION, HAVE LOCAL HEALTH DEPARTMENT CERTIFY IN WRITING THAT THE BUILDING WATER SYSTEM IS SAFE FOR DRINKING.

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: RLP
CHKD BY: JWE

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
PLUMBING
NOTES & LEGEND

PROJECT NO: 24022

P000

REVIEWED FOR CODE COMPLIANCE
Approval of these plans is granted on the condition that they conform to the Henry County Code of Ordinances, Fire Protection Ordinance, and Georgia State Minimum Standard Codes. Approval of these plans does not authorize the violation of any County, State or Federal Law. Any deviation from these approved plans must be reviewed and approved by the Henry County Fire Marshal's Office.
Ashley Roebuck, ICC#10424482 Effective: May 12, 2025

SCHEDULE – PLUMBING PIPING AND VALVES

KEYED NOTES:

(A) INSULATION IS REQUIRED FOR ALL ABOVEGROUND POTABLE WATER PIPING, INCLUDING DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN.

(B) 1/8" PER FOOT MINIMUM SLOPE.

(C) PAINT ALL EXPOSED EXTERIOR PIPING W/ONE COAT OF PRIMER & TWO COATS OF RUST–PROOF PAINT.

	PIPE SIZE	PIPE																FITTINGS											JOINTS						INSULATION	NOTES
		TYPE L SOFT COPPER TUBING, ASTM B–88	TYPE L HARD DRAWN COPPER TUBING, ASTM B–88	TYPE K SOFT DRAWN COPPER TUBING, ASTM B–88	PRESSURE CLASS 150 CORTED & LINED DUCTILE IRON	SCHEDULE 10 CARBON STEEL PIPE, ASTM A135	SCHEDULE 40 CARBON STEEL PIPE, ASTM A135	SCHEDULE 10 GALVANIZED STEEL PIPE, ASTM A53	SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM A53	HUB & SPIGOT SERVICE WEIGHT CAST IRON SOIL PIPE	NO–HUB SERVICE WEIGHT CAST IRON SOIL PIPE	SOLID WALL SCH. 40 PVC, ASTM D2665	TYPE DWV HARD DRAWN COPPER TUBING, ASTM B–88	PE2406 POLYETHYLENE, ASTM D–2513	WROUGHT COPPER OR CAST BRONZE, ASTM B–88	HUB & SPIGOT CAST IRON SOIL PIPE	CLASS 150 MALLEABLE IRON THREADED	STEEL SOCKET OR BUTT–WELDING FITTINGS	GASKETED MECHANICAL JOINT	WROUGHT COPPER OR BUTT–WELDING FITTINGS	NO–HUB CAST IRON S.W.M.I. FITTINGS, CISPI 301	SCH. 40 DRAINAGE PATTERN	PE2406 POLYETHYLENE, ASTM D–2513	SOLDERED (LEAD FREE)	THREADED WITH TEFLON BASED JOINT COMPOUND	HUB AND SPIGOT GASKETED PUSH–ON	GASKETED MECHANICAL JOINT	SOCKET OR BUTT–WELDED	BOLTED FLANGED	SS & NEOPRENE NO HUB COUPLINGS, HUSKY 3000 OR EQUAL	SOLVENT CEMENTED WITH PURPLE PRIMED	15% SILVER BRAZED (LEAD FREE)	THERMAL BUTT–FUSION, SOCKET FUSION, OR SADDLE FUSION	1" FIBERGLASS	1–1/2" FIBERGLASS	1/2" FLEXIBLE UNICELLULAR		
UNDERGROUND SANITARY WASTE & VENT LINES	ALL SIZES										●							●										●							(B)
ABOVEGROUND SANITARY WASTE & VENT LINES	ALL SIZES										●							●										●							(B)
UNDERGROUND POTABLE WATER SERVICE	ALL SIZES		●												●														●						
ABOVEGROUND POTABLE WATER LINES	ALL SIZES	●													●							●								●					(A)
ABOVEGROUND NATURAL GAS LINES	ALL SIZES				●												●						●												(C)

PLUMBING VALVES & ACCESSORIES:

1. Unions: Unions on ferrous pipe shall be ground joint with brass to iron seats and unions on copper piping shall be cast bronze with sweat ends.
2. Dielectric Unions: Dissimilar pipe materials shall be connected with dielectric pipe fittings/unions rated at 250 PSIG at 180°F and are designed to meet the requirements of ANSI B16.39, including hydrostatic strength, tensile strength, and air pressure testing. Fittings and unions shall be Watts 3000 series or approved equal by Dart, Rockwood, or Walworth.
3. Gate Valves: Gate valves shall be bronze, rising stem type, screwed end for ferrous piping and solder end for copper piping, rated for 125 psi SWP.
4. Globe Valves: Globe valves shall be equipped with renewable seating surface (composition disc, renewable ring–seal). Valves shall be rising stem type, bronze screwed end for ferrous piping and solder end for copper piping, rated for 125 psi SWP.
5. Ball Valves: Ball valves shall be equipped with two–piece body, conventional port, bronze trim, TFE seat rings, and blowout proof stem. Valves shall be rated at 125 SWP/400 WOG and meet Federal Specifications: WW–V–35, Type II, Class A, Style 3.
6. Check Valves: Swing check valves shall have 45° seating angle, disc seat access and renewable seating. Valves shall be bronze, screwed end for ferrous piping and solder end for copper piping.
7. Strainers: Strainers shall be bronze body wye–type with 1/16" stainless steel mesh, 125 psi SWP minimum.
8. Pressure Gauges: Gauges shall be 4½" dial, micro adjustable pointer, screwed ring, fiberglass reinforced polypropylene case, plexiglass window, solid front, blowout back and shall be designed so the gauge can be liquid filled in the field by the addition of a kit where vibration is a problem. Accuracy 1% full scale, 0–200 psi for domestic water service. Trerice #450 or approved equal by Ashcroft or Palmer. Each gauge shall be provided with Trerice 735–2 needle valve cock, 885–1 syphon, 872–2 snubber.

SCHEDULE – GAS WATER HEATER

TAG	MODEL	STORAGE CAPACITY	GAS INPUT (BTUH)	GPH RECOVERY @ 80°F RISE	TEMP OF WATER TO BE DELIVERED	ACCESSORIES/NOTES
GWH–1	BTX–100	50	100,000	145	140°F	1,2,3

REQUIRED ACCESSORIES:
1. T & P RELIEF VALVE, DRAIN VALVE, DIELECTRIC FITTINGS ON INLET & OUTLET, BALL VALVE ON INLET, THERMOMETER ON OUTLET, EXPANSION TANK, VACUUM RELIEF VALVE, SEE DETAIL.
2. SEALED COMBUSTION, DIRECT VENT HEATER WITH CONCENTRIC VENT KIT.
3. 5–YEAR COMMERCIAL WARRANTY.

SELECTIONS BASED ON – A.O. SMITH
APPROVED EQUAL – RHEEM

SCHEDULE – PLUMBING PUMPS

TAG	MODEL	GPM	T.D.H.	HP	RPM	SERVES	ACCESSORIES
PP–1	SERIES 100	7	10	1/12	1750	WH–1	1

REQUIRED ACCESSORIES:
1. CONTROLLED BY LINE VOLTAGE IMMERSION AQUASTAT.

SELECTIONS BASED ON – BELL & GOSSETT
APPROVED EQUAL – TACO, GRUNDFOS

GAS LOAD SUMMARY

DESCRIPTION	GAS LOAD (BTUH)
BUILDING HEATING	404,570
WATER HEATING	100,000
COOKING	UNKNOWN
TOTAL GAS LOAD	UNKOWN BTUH @ 2 PSI DELIVERY PRESSURE

NOTES:
1. COORDINATE GAS LOADS AND SERVICE LINES WITH GAS COMPANY. CONTRACTOR SHALL COMPLETE ALL REQUIRED APPLICATIONS AND PAY ALL ASSOCIATED FEES.

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8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: RLP
CHK'D BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

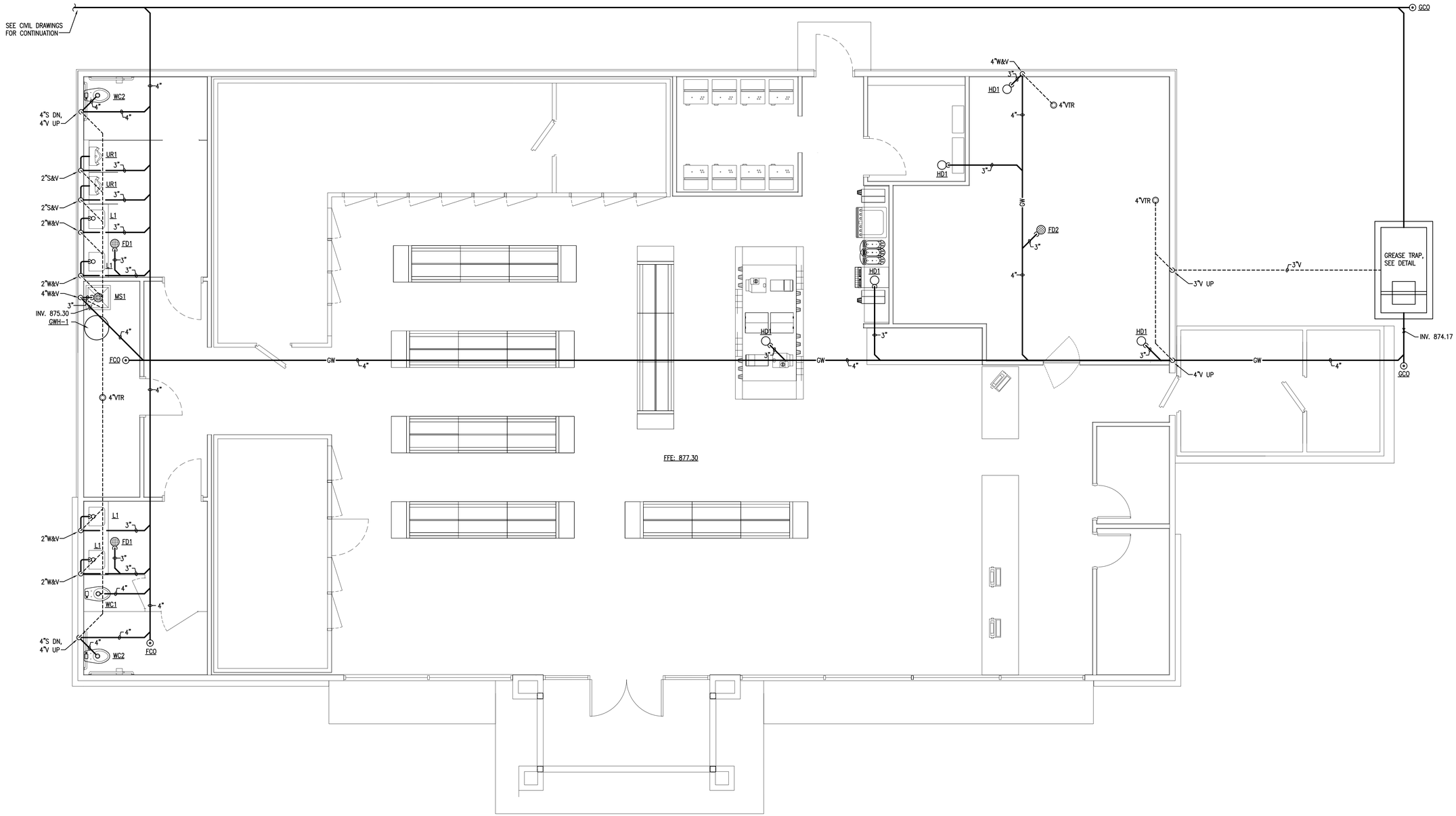
SHEET TITLE:

PLUMBING
SCEDULES & DETAILS

PROJECT NO: 24022

P001

REVIEWED FOR CODE COMPLIANCE
Review of these plans, drawings and specifications does not relieve the architect, engineer or owner of responsibility for compliance with the applicable codes, ordinances and regulations. Review does not authorize the violation of any code, ordinance or regulation. Henry County Building Safety & Planning Department



1 P100 FLOOR PLAN – WASTE & VENT

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

GENERAL NOTE

PROVIDE FINAL PLUMBING CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT INCLUDING ALL INDIRECT WASTE LINES, FITTINGS, AND APPURTENANCES FOR A COMPLETE INSTALLATION. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL ROUGH-IN INFORMATION AND CONNECTION DETAILS.

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Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

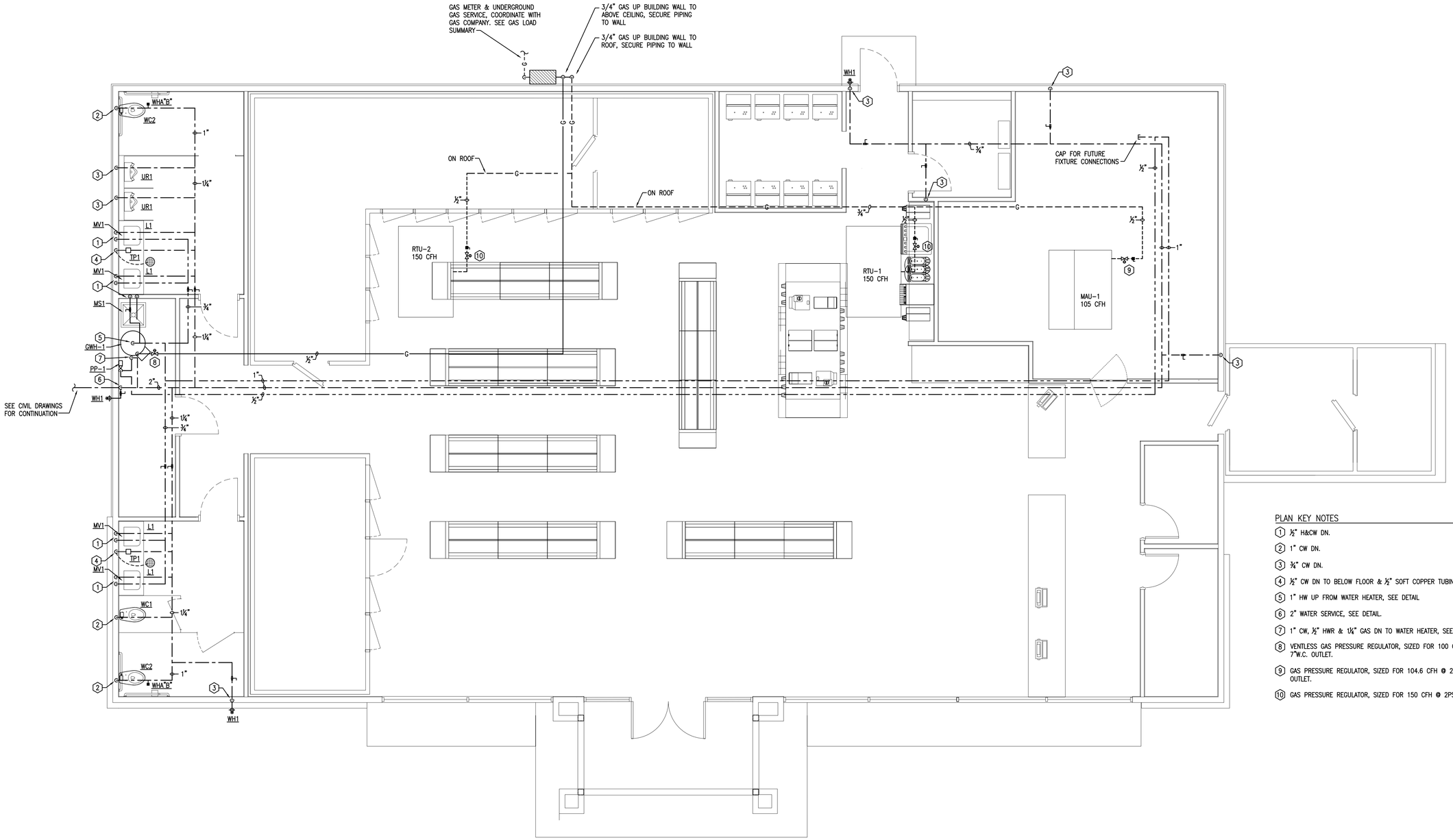
SHEET TITLE:

FLOORPLAN
WASTE & VENT

PROJECT NO: 24022

P100

REVIEWED FOR CODE COMPLIANCE
Henry County Building Safety and Planning Department
Reviewed for code compliance only. Approval of this plan does not relieve the owner or contractor of responsibility for meeting all applicable codes and ordinances. Approval of these plans does not give the owner or contractor the right to violate any covenants, restrictions, or other legal requirements.
Ashley Redlinger, ICC#12442881 Plans Review Date: 10/08/2025



PLAN KEY NOTES

1. ½" H&CW DN.
2. 1" CW DN.
3. ¾" CW DN.
4. ½" CW DN TO BELOW FLOOR & ½" SOFT COPPER TUBING TO FD, HD.
5. 1" HW UP FROM WATER HEATER, SEE DETAIL
6. 2" WATER SERVICE, SEE DETAIL.
7. 1" CW, ½" HWR & 1¼" GAS DN TO WATER HEATER, SEE DETAIL.
8. VENTLESS GAS PRESSURE REGULATOR, SIZED FOR 100 CFH @ 2PSI INLET. 7"W.C. OUTLET.
9. GAS PRESSURE REGULATOR, SIZED FOR 104.6 CFH @ 2PSI INLET. 7"W.C. OUTLET.
10. GAS PRESSURE REGULATOR, SIZED FOR 150 CFH @ 2PSI INLET. 7"W.C. OUTLET.

1 / P101 FLOOR PLAN – WATER & GAS

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

GENERAL NOTE

PROVIDE FINAL PLUMBING CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT INCLUDING ALL INDIRECT WASTE LINES, FITTINGS, AND APPURTENANCES FOR A COMPLETE INSTALLATION. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL ROUGH-IN INFORMATION AND CONNECTION DETAILS.

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McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

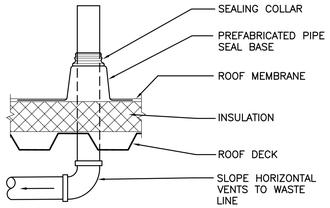
SHEET TITLE:

FLOORPLAN
WATER & GAS

PROJECT NO: 24022

P101

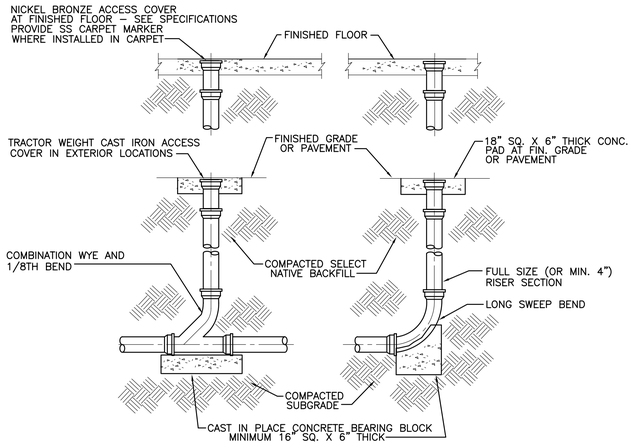
REVIEWED FOR CODE COMPLIANCE



DETAIL NOTES:
1. TERMINATE VENTS THRU ROOF MINIMUM 10'–0" FROM ANY OUTSIDE AIR INTAKES (TYP.)
2. COORDINATE EXACT ROOF SLOPE AND FLASHING DETAILS WITH ARCHITECT AND ROOFING CONTRACTOR.

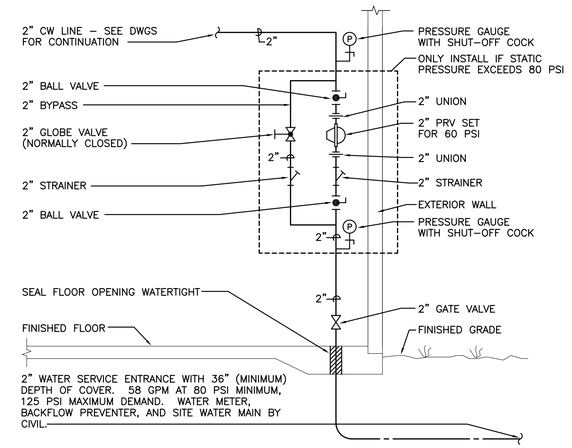
1 P200 VENT THROUGH ROOF DETAIL

SCALE: NOT TO SCALE



4 P200 FLOOR & GRADE CLEANOUT DETAILS

SCALE: NOT TO SCALE



DETAIL NOTES:
1. PRV'S TO BE WATTS SERIES N223B OR APPROVED EQUAL
2. PROVIDE ADDITIONAL PRV UPSTREAM OF BACKFLOW PREVENTER IF INCOMING PRESSURE EXCEEDS 125 PSI. COORDINATE FINAL SELECTION WITH FLOW AND PRESSURE TESTS TO ENSURE PROPER OPERATION.

7 P200 DOMESTIC WATER SERVICE ENTRANCE DETAIL

SCALE: NOT TO SCALE

2 P200 TRAP PRIMER DETAIL

SCALE: NOT TO SCALE

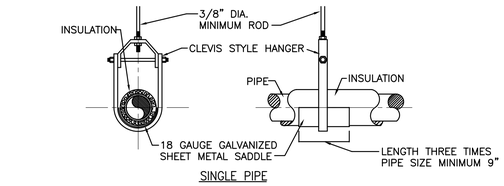
DETAIL NOTES:
1. PROVIDE TRAP SEALER (TS) FOR SYSTEMS CONNECTED TO GREASE WASTE SYSTEM. PROVIDE TRAP PRIMER VALVE FOR TOILET ROOM SYSTEMS. SEE PLANS AND SCHEDULES.
2. INSULATION REQUIRED ONLY FOR INDIRECT WASTE LINES RECEIVING CONDENSATE FROM REFRIGERATION EQUIPMENT (A/C UNITS, EVAPORATORS, ICE–MAKER, ETC.) REFER TO PLANS AND COORDINATE FOR OTHER TRADES.
3. SPILL INDIRECT WASTE OVER OPENINGS IN DRAIN GRATES, WHERE SPECIFICED.

5 P200 FLOOR DRAIN/FLOOR SINK DETAIL

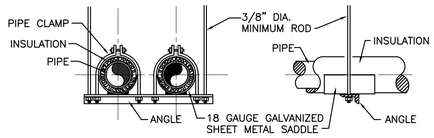
SCALE: NOT TO SCALE

PIPE SUPPORT SPACING SCHEDULE		
PIPE SIZE	STEEL/C.I. SPACING	COPPER SPACING
UP TO 3/4"	6'–0"	5'–0"
1"	6'–0"	5'–0"
1 1/4"	7'–0"	6'–0"
1 1/2"	9'–0"	8'–0"
2"	10'–0"	8'–0"
2 1/2"	10'–0"	8'–0"
3"	10'–0"	10'–0"
4"	12'–0"	10'–0"
5"	12'–0"	12'–0"
6"	12'–0"	12'–0"

DETAIL NOTES:
1. HANGERS ARE TYPICAL FOR UNINSULATED PIPING (WITHOUT INSULATION AND SADDLES.)
2. CONNECT TO TOP OR BOTTOM CHORD OF JOISTS BUT ONLY AT PANEL POINTS.
3. PIPE HANGERS SHALL COMPLY WITH LOCATE SEISMIC REQUIREMENTS, AND MSS–SP–69 STANDARD FOR PIPE HANGER ASSEMBLIES.
4. SEE SEISMIC RESTRAINT DETAIL FOR GAS PIPING, WHERE APPLICABLE.
5. PROVIDE PRE–FAB (MIRO OR EQUAL) ROOF PIPE SUPPORT BASES FOR ALL PIPING ON ROOF. COORDINATE FLASHING OR ROOF PROTECTION MEMBRANES WITH THE ROOFING CONTRACTOR.

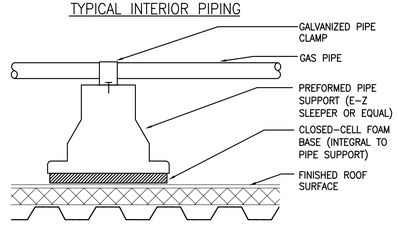


SINGLE PIPE



TWO OR MORE PIPES

TYPICAL INTERIOR PIPING



ROOFTOP GAS PIPING

8 P200 TYPICAL PIPE HANGER & SPACING DETAILS

SCALE: NOT TO SCALE

3 P200 THREE COMPARTMENT SINK DETAIL

SCALE: NOT TO SCALE

DETAIL NOTES:
1. INSULATION REQUIRED ONLY FOR INDIRECT WASTE LINES RECEIVING CONDENSATE FROM REFRIGERATION EQUIPMENT (A/C UNITS, EVAPORATORS, ICE–MAKER, ETC.) REFER TO PLANS AND COORDINATE FOR OTHER TRADES.

6 P200 HUB DRAIN DETAIL

SCALE: NOT TO SCALE

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McDonough, GA 30253

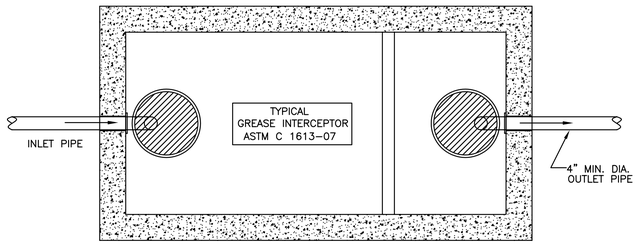
SHEET TITLE:

PLUMBING DETAILS

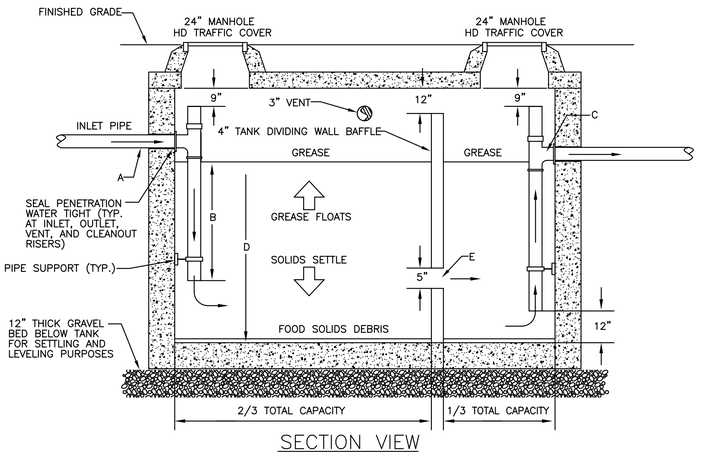
PROJECT NO: 24022

P200

REVIEWED FOR CODE COMPLIANCE
Approval does not relieve owner, his applicable laws or ANSI of the duty of compliance with the provisions of the applicable codes and standards. Approval is based on the information contained in the plans and specifications. Any deviations must be specifically noted. Approval is void if misrepresentation is discovered or if work is performed beyond the approved plans.
Authority Having Jurisdiction: [illegible] Date: [illegible]



PLAN VIEW



SECTION VIEW

NOTES:
A. INLET PIPE TO BE 2" – 4" ABOVE OUTLET.

B. INLET PIPE TO TERMINATE 2/3 DEPTH OF WATER LEVEL.

C. OUTLET PIPE NO SMALLER THAN INLET PIPE, MINIMUM 4".

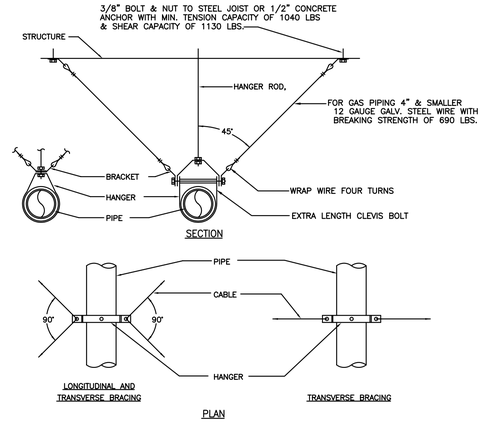
D. MINIMUM DEPTH OF LIQUID 30".

E. OPENING TO BE 50 SQUARE INCHES MINIMUM WITH 5" DEPTH. OPENING TO BE PLACED IN MIDDLE 25% OF DISTANCE FROM BOTTOM OF THE TANK TO THE WATER LINE.

GENERAL DETAIL NOTE:
1. CONTACTOR TO VERIFY GREASE TRAP SIZING, DETAILS, AND INSTALLATION REQUIREMENTS WITH THE LOCAL AUTHORITIES HAVING JURISDICTION. USE SIZING METHODS AND DETAILS PROVIDED BY LOCAL AUTHORITIES, WHERE APPLICABLE.

1 P201 1500 GAL. PRECAST CONCRETE GREASE TRAP

SCALE: NOT TO SCALE

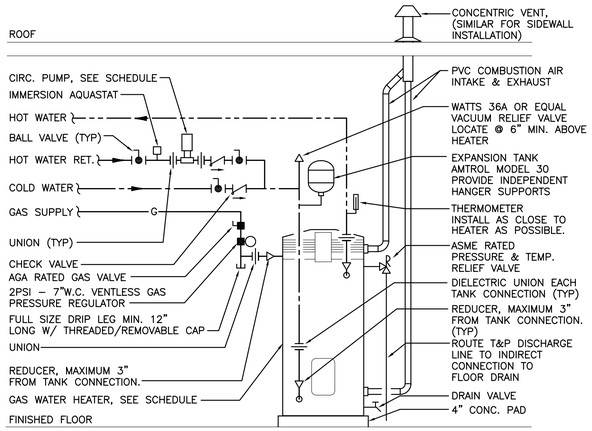


DETAIL NOTES

1. PROVIDE TRANSVERSE AND LONGITUDINAL BRACING AT ENDS OF PIPE AND AT 80 FEET ON CENTER. PROVIDE TRANSVERSE BRACING AT 40 FEET ON CENTER.
2. PROVIDE SEISMIC RESTRAINTS ON ALL FLEXIBLE AND FLEXIBLY MOUNTED PLUMBING, AND GAS PIPING AND EQUIPMENT EXCEPT THAT SEISMIC RESTRAINTS SHALL NOT BE REQUIRED ON THE FOLLOWING INSTALLATIONS:
   A. PIPING OTHER THAN GAS OR SPRINKLER PIPING IN BOILER AND MECHANICAL ROOMS LESS THAN 1-1/4" INCHES INSIDE DIAMETER.
   B. PIPING OTHER THAN GAS AND SPRINKLER PIPING LESS THAN 2-1/2 INCHES INSIDE DIAMETER.
   C. EQUIPMENT SECURELY ANCHORED TO THE BUILDING OR TO THE GROUND.
3. SEISMIC RESTRAINTS ARE SIZED IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM INTERNATIONAL BUILDING CODE 2006, FOR SEISMIC HAZARD EXPOSURE GROUP II AND SEISMIC PERFORMANCE CATEGORY "C" AND IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL, 1ST EDITION, FOR A SEISMIC HAZARD LEVEL "C". OTHER METHODS OF RESTRAINT IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL ARE ACCEPTABLE.

2 P201 GAS PIPING SEISMIC RESTRAINT DETAIL

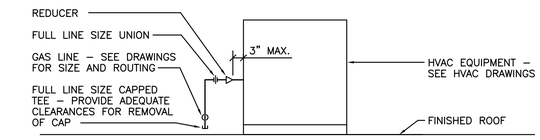
SCALE: NOT TO SCALE

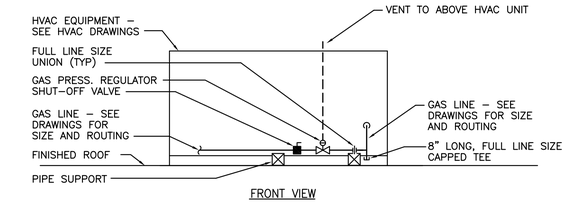


DETAIL NOTES:
1. INSTALL WATER HEATERS AND VENTING PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2. ALL PIPING SHALL BE FULL–SIZED TO THE POINT OF CONNECTION TO THE WATER HEATER. REFER TO PLANS FOR WATER AND GAS LINE SIZES. PROVIDE REDUCER WITHIN 3" OF WATER HEATER, AS REQUIRED.
3. HOT WATER CIRCULATING PUMP SHALL BE INDEPENDENTLY SUPPORTED ON THE PUMP INLET & OUTLET. PROVIDE LINE VOLTAGE IMMERSION AQUASTAT AND COORDINATE ELECTRICAL REQUIREMENTS WITH DIVISION 16.
4. TERMINATE WATER HEATER VENT WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATONS, IMC, AND A MINIMUM OF 10' FROM ANY FRESH AIR INTAKES OR OPERABLE DOORS/WINDOWS.

3 P201 GAS FIRED WATER HEATER DETAIL

SCALE: NOT TO SCALE

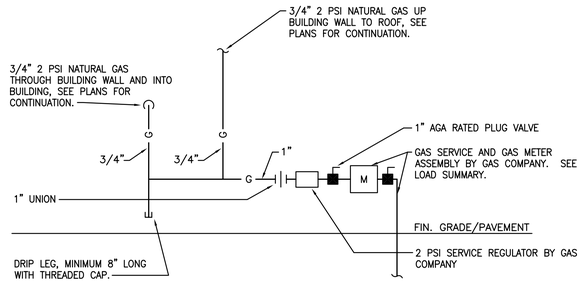




DETAIL NOTES:
1. GAS PIPING SHALL BE FULL–SIZED TO POINT OF CONNECTION TO EQUIPMENT. PROVIDE REDUCER AT CONNECTION, AS REQUIRED. SEE PLANS FOR LINE SIZES.

4 P201 HVAC UNIT GAS CONNECTION DETAIL

SCALE: NOT TO SCALE



DETAIL NOTES:
1. SUPPORT ALL EXTERIOR PIPING AND METERS TO EXTERIOR WALL WITH GALVANIZED STEEL CHANNEL STRUTS AND PIPE CLAMPS.
2. PAINT ALL EXTERIOR GAS PIPING.

5 P201 GAS METER ASSEMBLY DETAIL

SCALE: NOT TO SCALE

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: RLP
CHKD BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

PLUMBING
DETAILS

PROJECT NO: 24022

P201

REVIEWED FOR CODE COMPLIANCE
HENRY COUNTY
Approved with Conditions
Reviewed by: Ashley Sadlock, ICC#12424851 Effective Date: 9/2/2025
Approval Expires: 3/2/2026

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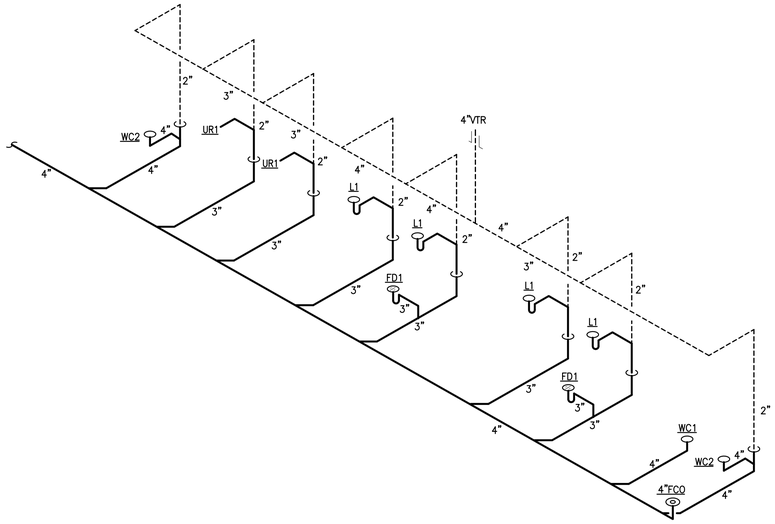
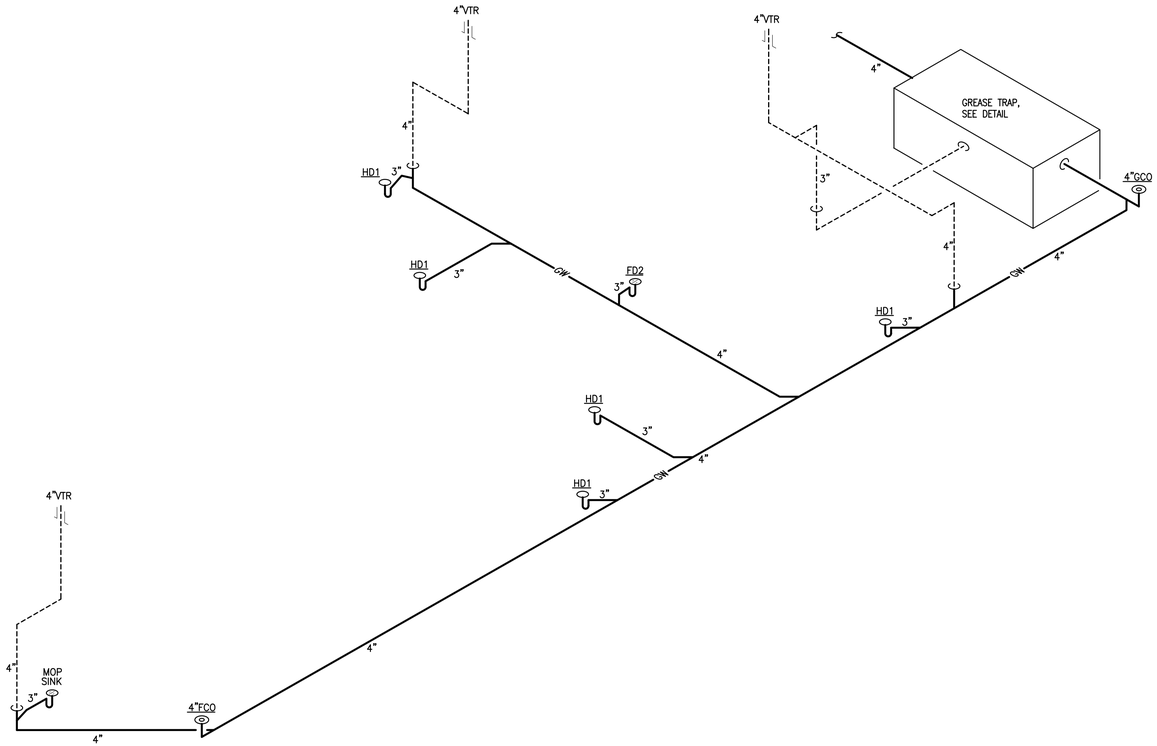


2 / P300 SANITARY WASTE AND VENT RISER DIAGRAM

SCALE: NOT TO SCALE



1 / P300 GREASE WASTE AND VENT RISER DIAGRAM

SCALE: NOT TO SCALE

ARCHITECT OF RECORD:

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6/5/25	FOR REVIEW / COORDINATION
8/21/25	OWNER / ARCH REVISIONS
8/21/25	FOR PERMIT / CONSTRUCTION

DRAWN BY: RLP
CHK'D BY: JWE

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

RISER DIAGRAMS

PROJECT NO: 24022

P300

REVIEWED FOR CODE COMPLIANCE
Approved
Inspector: Anthony Pritchard, ICC#12422485
Comments:

ELECTRICAL SPECIFICATIONS

DIVISION 16 - ELECTRICAL SPECIFICATIONS

PART I. GENERAL PROVISIONS

1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.

A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OF THE FOLLOWING MATERIAL AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: PANELBOARDS; LIGHTING FIXTURES; LAMPS; RACEWAYS; 600 VOLT WIRE AND CABLE; WIRING DEVICES; DEVICE PLATES; DEVICE, PULL, AND JUNCTION BOXES; SAFETY SWITCHES; LIGHTING CONTROLS; CIRCUIT BREAKERS; FUSES; TIME CLOCKS; EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES); WIRE AND CABLE TERMINATIONS; CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT FOR THE WALK-IN COOLER; AND TEMPORARY POWER.

B. THE FOLLOWING MATERIAL AND EQUIPMENT WILL BE FURNISHED AND/OR INSTALLED BY OTHERS, OR UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: LOW VOLTAGE (24 VOLT) WIRE AND CABLE, COMMUNICATION DEVICES, SECURITY EQUIPMENT, POINT OF SALE (POS) EQUIPMENT, SIGNAGE.

2. GENERAL REQUIREMENTS: ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST APPROVED, EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE FEDERAL, STATE AND LOCAL CODES. ALL WORK SHALL BE INSTALLED IN COMPLIANCE OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL INSTALLATION STANDARDS (NEIS). ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.

A. COORDINATION: ALL OUTLETS MUST BE ACCURATELY LOCATED, PARTICULARLY APPLIANCE OUTLETS WHICH SHALL BE LOCATED FROM THE DIMENSIONS GIVEN ON ALL THE DRAWINGS, INCLUDING SUBSETS. REVIEW THE ARCHITECTURAL, PLUMBING AND HEATING AND VENTILATING PLANS IN ORDER TO COORDINATE THIS WORK WITH OTHER TRADES, AND COOPERATE WITH THEM IN THE ENTIRE INSTALLATION.

B. BEFORE ROUGH-IN, VERIFY ELECTRICAL REQUIREMENTS OF ALL BUILDING AND EXTERIOR SIGNAGE, MECHANICAL, SELF-SERVE FOOD SERVICE, AND FUEL DISPENSING EQUIPMENT. MAKE ADJUSTMENTS TO RECEPTACLES, DISCONNECT SWITCHES, WIRING CIRCUITS, CIRCUIT BREAKERS, ETC., AS REQUIRED.

3. SERVICE VOLTAGE: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND SERVICE OF 120/208 VOLT, THREE PHASE, FOUR WIRE, 60 HERTZ. ALL SELF-SERVE FOOD SERVICE, FUEL DISPENSING AND HVAC EQUIPMENT HAS BEEN DESIGNED AND PURCHASED FOR USE ON THIS ELECTRICAL SYSTEM. THE CONTRACTOR SHALL VERIFY THE SERVICE.

4. SERVICE EQUIPMENT: THE SERVICE IS LOCATED AS SHOWN ON RISER DIAGRAM, E001, THE POWER PLAN, E200 AND SITE ELECTRICAL PLAN, E300.

PART II. MATERIALS

1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERRS OF COMMERCIAL EQUIPMENT MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY POPEYE'S ARCHITECTURE AND ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL SUBMIT A SUBSTITUTION LIST IN TRIPLICATE AT LEAST FIVE DAYS PRIOR TO THE BID OPENING.

A. DISCONNECT SWITCHES: ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR. ALL FUSES FOR DISCONNECT SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL PROVIDE OWNER ONE SET OF SPARE FUSES FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES SHALL BE RK1, TYPICAL, UON.

B. PANELBOARDS: PANELBOARDS SHALL BE BOLT-IN CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF PANELBOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, UL LISTED, AND MEET UL 67, UL 50, AND FEDERAL SPECIFICATION W-P-115B AS TYPE 1, CLASS 1, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS. ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS. APPROVED MANUFACTURERS OF PANELS ARE SQUARE D/TELEMECHANIQUE, CUTLER-HAMMER, GENERAL ELECTRIC, WESTINGHOUSE, AND SIEMENS (I-T-E).

C. LIGHTING FIXTURES: ALL LIGHTING FIXTURES SHALL BE UL LISTED, COMMERCIAL QUALITY.

D. LAMPS: ALL NEW LAMPS SHALL BE LED, UNLESS NOTED OTHERWISE.

E. WIRING DEVICES: ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE. SWITCHES SHALL BE RATED 20 AMPS AT 120/277 VOLTS, AC. STANDARD RECEPTACLES SHALL BE 20 AMP, DUPLEX, GROUNDING TYPE, IN NEMA CONFIGURATIONS, UNLESS NOTED OTHERWISE. SWITCHES IN THE SAME LOCATION SHALL BE GANGED BEHIND A SINGLE PLATE. DEVICE PLATES IN THE KITCHEN AREA SHALL BE METAL, ALUMINUM OR STAINLESS STEEL. DEVICE PLATES IN THE DINING AREA SHALL BE THERMOPLASTIC PLASTIC (NYLON) OR METAL, COLOR AS APPROVED BY THE ARCHITECT OR OWNER. APPROVED MANUFACTURERS OF SWITCHES AND RECEPTACLES ARE HUBBELL, ARROW HART, BRYANT, LEVITON, PASS & SEYMOUR, GENERAL ELECTRIC, SLATER, OR EQUAL.

1. SWITCHES:
   a. SINGLE POLE: HUBBELL HBL1221-I, OR EQUAL.
   b. THREE WAY: HUBBELL HBL1223-I, OR EQUAL.
2. RECEPTACLES:
   a. NEMA 5-20R: HUBBELL 5362I, OR EQUAL.
   b. NEMA 5-20R-IG: HUBBELL IG-5362, OR EQUAL.
   c. NEMA 5-20R-IG/SS: HUBBELL IG-5362-OS, OREQUAL.
   d. NEMA 5-20R-GFCI: HUBBELL GF5362-I, OR EQUAL.
   e. NEMA 6-20R: HUBBELL 5462-I, OR EQUAL.
   f. OTHERS: COMMERCIAL OR INDUSTRIAL GRADE, UL LISTED, FEDERAL SPECIFICATION WC596F.

3. WP PLATES: WEATHERPROOF COVERS ARE PERMITTED UNDER NEC ARTICLE 406.8(B)(I).

F. CONDUIT AND FITTINGS: CONDUIT PERMITTED: (A) RIGID GALVANIZED STEEL (RGS), (B) EMT, (C) PVC, AND (D) MC. TYPES UTILIZED SHALL BE RUN ONLY AS PERMITTED PER CODE. ALL WIRING SHALL BE RUN IN CONDUIT. CONDUIT EXPOSED OR RUN IN MASONRY WALLS ABOVE GRADE MAY BE PVC OR EMT WHERE ALLOWED BY LOCAL CODES. IF EMT IS NOT PERMITTED, RIGID SCREWED GALVANIZED PIPE CONDUIT AND FITTINGS SHALL BE USED. IF SHIELDED CABLE IS REQUIRED FOR CONTROL CIRCUITRY, IT SHALL BE TAN, GREY OR ANY NEUTRAL COLOR OTHER THAN THAT AS SPECIFIED FOR POWER DISTRIBUTION. NO CONDUIT SMALLER THAN 3/4" SHALL BE INSTALLED EXCEPT FOR TWO-WIRE SWITCH LEGS. ALL CONDUIT BENDS SHALL BE FREE FROM DENTS AND KINKS. ALL CONDUITS SHALL BE ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO ALL METAL BOXES WITH ONE LOCK NUT OUTSIDE, AND ONE INSIDE THE BOX WITH A REINFORCED BAKELITE BUSHING. IF PVC IS USED, THEN APPROPRIATE SIZED, ELECTRICALLY CONTINUOUS, BOND WIRES SHALL BE RUN FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO EACH WIRING DEVICE PER THE NATIONAL ELECTRICAL CODE. WHERE CONNECTIONS ARE TO BE MADE BETWEEN CONDUIT TERMINATIONS AND MOTORS, EQUIPMENT, OR APPARATUS NECESSITATING FLEXIBLE CONNECTIONS, APPROVED FLEXIBLE CONDUIT SHALL BE USED. OUTDOOR CONNECTIONS TO FANS, HVAC UNITS, CONDENSER UNITS, OR ROTATING EQUIPMENT SHALL BE MADE WITH HELICAL WOUND, LIQUIDTIGHT, FLEXIBLE STEEL CONDUIT. EXPOSED CONDUIT SHALL BE SUITABLY SUPPORTED AT INTERVALS NOT TO EXCEED FIVE (5) FEET.

G. WIRE AND CABLES: ALL WIRE AND CABLES SHALL BE UNDERWRITERS LABORATORIES' LISTED, AND LABELED, AND CONFORM WITH APPLICABLE STANDARDS OF UL (44, AND 83), NEMA (WC-5, AND WC-7), IPCEA (S-61-402, AND S-66-524), FEDERAL SPECIFICATIONS (J-C-30A(1), AND HH-I-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS. CONNECTORS AND LUGS SHALL MEET UL PUBLICATION 486. ALL BRANCH CIRCUIT WIRING SHALL BE 600 VOLT, COPPER, 75 DEGREE C (MIN), TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG, UNLESS NOTED OTHERWISE. WIRE SIZES OF #8 AWG AND LARGER SHALL BE STRANDED. FEEDER CABLES SHALL BE 600 VOLT, STRANDED COPPER, 75 DEGREE C (MIN), TYPE XHHW. ALL CIRCUITS SHALL HAVE A SEPARATE GROUND CONDUCTOR. PROVIDE GREEN-INSULATED GROUND WIRE IN ALL RACEWAYS, CABLE ASSEMBLIES, AND WHERE NOTED. SIZE EQUIPMENT GROUNDS PER TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE. INSULATION COLOR CODES SHALL BE BLACK, RED, AND BLUE (PHASE), WHITE (NEUTRAL), AND GREEN (GROUND).

H. ALL WIRING SHALL BE INSTALLED IN CONDUIT, EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. NON-METALLIC SHEATHED (TYPE NM) CABLE IS NOT PERMITTED.

1. ALL BRANCH CIRCUIT, COMMUNICATION, SIGNALING, AND CONTROL WIRING TO KITCHEN, FIRE PROTECTION, AND OTHER EQUIPMENT SHALL BE ROUTED ABOVE THE CEILING. VERIFY WHETHER OR NOT THE SPACE ABOVE THE CEILING IS USED AS A SPACE FOR RETURN AIR FOR THE ENVIRONMENTAL AIR SYSTEM. IF IT IS USED FOR RETURN AIR, PROVIDE APPROVED RACEWAYS FOR ALL OVERHEAD WIRING PER NEC ARTICLE 300-22(B). IF IT IS NOT "OTHER SPACE USED FOR ENVIRONMENTAL AIR", APPROVED LOW VOLTAGE CABLES MEETING THE REQUIREMENTS OF NEC ARTICLES 725 AND 760 MAY BE RUN WITHOUT RACEWAYS, UNO. ALL SAFETY CONTROL WIRING FOR FIRE PROTECTION SYSTEMS, SHUNT TRIPS, ETC. SHALL BE RUN IN A RACEWAY IN ACCORDANCE WITH NEC ARTICLES 725.25 AND 725.28.

2. SIGNAGE LIGHTING: PROVIDE A 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND WIRING, FROM THE PANEL TO ALL ILLUMINATED SIGNS AS SHOWN ON THE LIGHTING PLAN GROUND/BOND EACH SIGN. SIGNS WILL BE FURNISHED AND INSTALLED BY THE OWNER, OR UNDER A SEPARATE CONTRACT, UNO. POWER AND WIRING SHALL BE FURNISHED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

I. OTHER WIRING:

1. FURNISH AND INSTALL ALL POWER WIRING AND CONDUIT AS INDICATED ON THE DRAWINGS FOR ROOF-TOP HVAC EQUIPMENT AND WALK-IN COOLER EQUIPMENT. DISCONNECT SWITCHES, SHALL BE FURNISHED AND INSTALLED FOR EACH UNIT OF HVAC EQUIPMENT, AND FOR KITCHEN EQUIPMENT AS NOTED. CONTRACTOR SHALL VERIFY ALL HVAC AND SELF-SERVE FOOD SERVICE EQUIPMENT LOADS BEFORE ROUGH-IN. MAKE ALL NECESSARY ADJUSTMENTS TO VOLTAGE, PHASE, CIRCUIT BREAKERS, DISCONNECTS, WIRING AND CONDUIT. BEFORE ENERGIZING ANY EQUIPMENT, VERIFY THAT THE CORRECT POWER SUPPLY VOLTAGE, AMPACITY, AND PHASING HAS BEEN PROVIDED AT THE LOAD SIDE OF THE DISCONNECT.

2. EMPTY CONDUIT: LEAVE A #12 AWG PULL WIRE IN ALL EMPTY CONDUITS.

J. BOXES AND WIREWAYS: ALL JUNCTION BOXES, PULL BOXES, WIREWAYS, ETC, SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

K. EQUIPMENT IDENTIFICATION: PROVIDE NAMEPLATES FOR ALL PANELBOARDS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT. EQUIPMENT VISIBLE TO THE PUBLIC SHALL BE IDENTIFIED WITH ENGRAVED LAMINATED NAMEPLATES ATTACHED WITH STAINLESS STEEL FASTENERS. ELECTRICAL EQUIPMENT NOT VISIBLE TO THE PUBLIC MAY BE NEATLY IDENTIFIED WITH BLACK PERMANENT MARKERS.

PART III. EXECUTION

1. TESTS: MAKE ALL TESTS NECESSARY TO ENSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS, AND FROM SHORTED AND/OR OPEN CONDUCTORS. VOLTAGE, CURRENT, AND ROTATION TESTS SHALL BE MADE BEFORE ANY MOTORS ARE PLACED IN OPERATION. ALL LOADS SHALL BE BALANCED ACROSS PHASES. CHECK TO SEE THAT ALL LIGHTS WORK, AND ARE CONTROLLED BY SWITCHES INDICATED ON DRAWINGS, OR CIRCUIT BREAKERS SO INDICATED ON PANEL SCHEDULE.

2. GUARANTEE: FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS SECTION IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. IN ADDITION, DURING THE TERM OF THIS GUARANTEE, THE REPAIR AND/OR REPLACEMENT OF ANY DEFECTIVE WORK, AND ALL RESULTING DAMAGES SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER.

3. TEMPORARY POWER: IN THE PROJECT SPACE, PROVIDE A 100 AMP, 120/240 VOLT, SINGLE PHASE, SERVICE WITH POWER OUTLETS ADEQUATE FOR TEMPORARY CONSTRUCTION POWER. TEMPORARY LIGHTING SHALL BE MAINTAINED IN ALL AREAS OF THE TENANT SPACE UNTIL PERMANENT POWER SOURCES HAVE BEEN RESTORED. TEMPORARY SERVICE SHALL BE PROVIDED UNDER SECTION 1A OF THESE SPECIFICATIONS.

4. CLEAN-UP: LEAVE THE ELECTRICAL PORTION OF THE WORK IN A CLEAN AND FINISHED CONDITION.

5. SHOP DRAWINGS: PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS:PANELBOARDS, LIGHTING FIXTURES.

6. AS-BUILT DRAWINGS: MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PRESENT THE OWNER WITH ONE SET UPON COMPLETION. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM.

LIGHTING FIXTURE SCHEDULE (1)

MK	MTG.	MANUFACTURER	CATALOG No.	LAMPS No.	LAMPS TYPE	REMARKS	WATTS
A	REC	MAXLITE	MLFP-22BL-30-CS	1	LED	2X2 LED TROFFER, 5000K	35
B	REC	MAXLITE	MLFP-22BL-30-CS-EM	1	LED	2X2 LED TROFFER W/EMERG. BATT. PACK, 5000K	35
C	SURF	MAXLITE	LSV-4U-45-40	1	LED	4' VAPORTIGHT STRIPLIGHT, CLG MTD	35
G	WALL	LSI	XWM-FT-LED-06L-50-BZA	1	LED	WALLPACK, MT 12'-0" AFG	47
F	REC	LSI	LCD#4-LED-24L-UNV-DIMI-40-FL	1	LED	4" LED DOWNLIGHT	22
M	PEND	CREE	INT-EDR-PS-PD-06-E-UL-5V-350-50K	1	LED	PENDANT LED, MT 16'-0" AFF	66
N	REC	LSI	XSPS-S-LED-HD-CW-120-GWT-DFL	1	LED	LED SOFFIT LIGHT	40
X	WALL	LSI	HEM-6-18-P-WH-SD2-N	2	9W	EMERGENCY LIGHT W/2 HEADS	18
X1	W/SUR	LSI	LPRX-R-U-WH-LD11-R	2	1.1W LED	COMBINATION EXIT/EMERGENCY LIGHT	2.2
X2	WALL	LSI	2PRLED-SD2-WH	2	3.6W LED	EXTERIOR EMERGENCY LIGHT	7.2

GENERAL NOTES:
1. ALL LED LAMPS TO BE 4.0K MIN CR1 OF 80, UNLESS NOTED OTHERWISE.
2. ALL FIXTURES TO BE LISTED AND CERTIFIED WITH THE CEC DIRECTORY. AND DRIVERS TO COMPLY WITH IEC AND FCC STANDARDS.

(1) COORDINATE FIXTURE MOUNTING HEIGHT AND LOCATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS/DETAILS/ELEVATIONS PRIOR TO ROUGH-IN.

LEGEND

- X — EMERGENCY BATTERY PACK AND TWO (2) EMERGENCY LIGHT HEADS. SEE FIXTURE SCHEDULE
- X1 — SINGLE FACE EXIT LIGHT W/EMERGENCY BATTERY PACK AND TWO (2) EMERGENCY LIGHT HEADS. SEE FIXTURE SCHEDULE
- X2 — REMOTE EMERGENCY LIGHT UNIT W/TWO (2) EMERGENCY LIGHT HEADS
- A/B — 2X2 LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE. "NL" INDICATES NIGHT LIGHT FIXTURE
- C — 4' LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- F — 4" LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- G — WALL PACK SECURITY LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- M — LED PENDANT LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- N — EXTERIOR CANOPY LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- Sos — LEGRAND: DSW-301 OCCUPANCY SENSOR W/SWITCH OVERRIDE, MT 48"AFF, UON
- S — TOGGLE SWITCH - SINGLE POLE - HUBBEL #HBL1221-I.
- S3 — TOGGLE SWITCH - 3-WAY - HUBBEL #HBL1223-I.
- SL — LIGHTED TOGGLE SWITCH
- DUPLEX RECEPTACLE; MT 18" AFF, UON.
- WP / GFI — DUPLEX RECEPTACLE - IN WEATHER PROOF ENCLOSURE OR COVER, GROUND FAULT INTERUPTER. MT 18' AFF, UON.
- QUAD RECEPTACLE 18" AFF UNO. HUBBEL-2- # 5362-1
- IG — DUPLEX RECEPTACLE - ISOLATED GROUND SURGE PROTECTED - HUBBELL #IG-5362-OSP FOR POS EQUIP. & PRINTERS
- DUPLEX RECEPTACLE; MTD WITHIN FLUSH, FLOOR OUTLET BOX.
- SPECIAL RECEPTACLE; MT 18" AFF, UON. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE FOR RECEPTACLE TYPE
- 208/120 ELECTRICAL PANEL
- DISCONNECT SWITCH RATINGS AND SIZE AS NOTED.
- (3) — SEE ELECTRICAL NOTES.
- AFF — ABOVE FINISHED FLOOR.
- AFG — ABOVE FINISHED GRADE.
- BOF — BOTTOM OF FIXTURE
- EC — ELECTRICAL CONTRACTOR
- GFI — GROUND FAULT INTERRUPTING
- IG — ISOLATED GROUND
- MT — MOUNT
- MTD — MOUNTED
- WP — WEATHERPROOF
- UON — UNLESS NOTED OTHERWISE.
- L1-2 — CONDUIT RUN CONCEALED IN WALLS, ABOVE CLG, OR RUN EXPOSED SPACES. ARROWS INDICATE HOMERUNS. SUBSCRIPT INDICATES PANEL AND CIRCUIT NUMBERS. SLASH MARKS INDICATE NUMBER OF #12 CONDUCTORS. NO SLASH MARKS INDICATE 2#12, 1#12G-3/4"C, UON.
- CONDUIT RUN UNDER GROUND, OR UNDER NEATH FLOOR SLAB
- (J) — JUNCTION OR OUTLET BOX.
- TELEPHONE OUTLET, WALL TYPE, 18" AFF U.N.O ON PLANS WITH 3/4 " EMPTY CONDUIT TO 6" ABOVE CEILING. PROVIDE PULL WIRE.
- DATA OUTLET, 18" U.N.O. ON PLANS WITH 3/4 " EMPTY CONDUIT TO 6" ABOVE CEILING. PROVIDE PULL WIRE.

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SEAL:
GEORGIA REGISTERED NO.10443 ARCHITECT Jesse Thomas McCullough 08/21/2025 JESSE THOMAS McCULLOUGH

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08/21/2025	PERMIT SET

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PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
ELECTRICAL
LEGEND & SPECS

PROJECT NO: 24022

E000

REVIEWED FOR CODE COMPLIANCE
Henry County
Henry County Government offers the most current code in reviewing the code compliance. This is a limited review and does not include all applicable codes. It is the responsibility of the Architect, Engineer or Contractor to know, be aware of, and adhere to all applicable codes.
Ashley Kosiback, ICC#12424881 2018 adv. Res. FC 2020 Comm Building

PROJ:	C-STORE-MCDONOUGH, GA			PANEL:	MDP			DATED:	08/ 21/ 2025			REVS:	00	X
208	VOLT- LL		22	K-AIC RATING		ENCLOSURE TYPE:			NEMA 1					
120	VOLT- LN		3	PHASE	4 W	BRANCH OCP TY PE:			M.C BKRS					
600	BUSS AMPS		MLO	MAIN OCP		GENERAL NOTES:			SURFACE MTD					

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		PANEL L1	A	11000	150	/ -	1	A	2	200	/ -	13000	L	PANEL L2		
		---	A	9000	-	/ -	3	B	4		- / -	13000	L	---		
		---	A	9000	-	/ 3	5	C	6		- / 3	14000	L	---		
		PANEL L3	M	9000	100	/ -	7	A	8	80	/ -	8000	A	PANEL L4		
		---	M	3000	-	/ -	9	B	10		- / -	7000	R	---		
		---	M	3000	-	/ 3	11	C	12		- / 3	6000	A	---		
	1	COOLER COND., #7	C	2820	45	/ -	13	A	14	50	/ -	5040	C	RTU-1	1	
		---	C	2820	-	/ -	15	B	16		- / -	5040	C	---		
		---	C	2820	-	/ 3	17	C	18		- / 3	5040	C	---		
	1	BEER CAVE COND, #2B	C	1392	20	/ -	19	A	20	50	/ -	5040	C	RTU-2	1	
		---	C	1392	-	/ -	21	B	22		- / -	5040	C	---		
		---	C	1392	-	/ 3	23	C	24		- / 3	5040	C	---		
	1	FREEZER COND., #9	C	1428	20	/ -	25	A	26	30	/ -	3132	C	MAU-1	1	
		---	C	1428	-	/ -	27	B	28		- / -	3132	C	---		
		---	C	1428	-	/ 3	29	C	30		- / 3	3132	C	---		
	1	WIC COND, #104	C	1392	20	/ -	31	A	32		/			SPACE		
		---	C	1392	-	/ -	33	B	34		/			SPACE		
		---	C	1392	-	/ 3	35	C	36		/			SPACE		
	1	WIF COND, #105	C	852	20	/ -	37	A	38		/			SPACE		
		---	C	852	-	/ -	39	B	40		/			SPACE		
		---	C	852	-	/ 3	41	C	42		/			SPACE		

NT# 1. HA CR TY PE CIRCUIT BREAKER (CB).
2. PROVIDE SHUNT TRIP TY PE CB.

PHS-A	62 KVA	517	37%	FACTORED END-USE	164.7 KVA	457	A
PHS-B	53 KVA	442	32%	PASS THRU LOAD	0.0 KVA	0	A
PHS-C	53 KVA	442	32%	SPARE 10%	16.5 KVA	46	A
SUM	168 KVA	467	AMPS	GRAND TOTALS	181.2	503	A

PROJ:	C-STORE-MCDONOUGH, GA			PANEL:	L1			DATED:	08/ 21/ 2025			REVS:	00	X
208	VOLT- LL		22	K-AIC RATING		ENCLOSURE TYPE:			NEMA 1					
120	VOLT- LN		3	PHASE	4 W	BRANCH OCP TY PE:			M.C BKRS					
225	BUSS AMPS		MLO	MAIN OCP		GENERAL NOTES:			SURFACE MTD					

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		REC-NC FBD, #19	A	1584	20	/ 1	1	A	2	20	/ -	624	A	REC-HTD MERCH, #21		
	2	REC-PIZZA REFRIG, #25	A	420	20	/ 1	3	B	4		- / 2	624	A	---		
	2	REC-RI REFRIG, #22	A	300	20	/ 1	5	C	6	20	/ 1	1260	R	REC-100-103		
		RTU SD	R	300	20	/ 1	7	A	8	20	/ 1	1200	R	REC-GAMES		
		REC-DRINK MACH, #16	A	846	20	/ 1	9	B	10	20	/ 1			SPARE		
		REC-ICE MAKER, #17	A	1416	20	/ 1	11	C	12	20	/ 1			SPARE		
		REC-GAMES	R	1200	20	/ 1	13	A	14	20	/ 1	1764	A	REC-HTD MERCH, #20		
		REC-TELCO	R	500	20	/ 1	15	B	16	20	/ 1	1080	R	REC-101		
		REC-106-108,110	R	1080	20	/ 1	17	C	18	20	/ 1	900	R	REC-114-117		
	1	COOLER FAN COIL, #8	A	720	20	/ 1	19	A	20	20	/ 1			SPARE		
	2	REC-RI UC FRZR, #23	A	900	20	/ 1	21	B	22	20	/ 1			SPARE		
		REC-ROOF	R	900	20	/ 1	23	C	24	20	/ 1			SPARE		
	1	CLR FAN COIL, #104A	A	360	20	/ 1	25	A	26	20	/ 1			SPARE		
	1	FZR COIL, #105A	A	1050	20	/ 1	27	B	28	20	/ 1			SPARE		
		---	A	1050	-	/ 2	29	C	30	20	/ 1			SPARE		
		REC-GAMES	R	1200	20	/ 1	31	A	32	20	/ 1	200	R	WH CTLS/PP-1		
		REC-GAMES	R	1200	20	/ 1	33	B	34	20	/ 1	500	A	EXHAUST HOOD, #29		
	1	BEER CAVE COIL, #2C	A	720	20	/ 1	35	C	36	20	/ 1			SPARE		
	2	REC-BNB, #33	A	1728	20	/ 1	37	A	38	20	/ 1			SPARE		
		FZR COIL, #9A	A	1581	20	/ -	39	B	40	20	/ 1			SPARE		
		---	A	1581	-	/ 2	41	C	42	20	/ 1			SPARE		

NT# 1. PROVIDE HA CR TY PE CIRCUIT BREAKER (CB).
2. FUTURE EQUIPMENT.

PHS-A	11 KVA	91	38%	FACTORED END-USE	22.1 KVA	61	A
PHS-B	9 KVA	73	30%	PASS THRU LOAD	0.0 KVA	0	A
PHS-C	9 KVA	77	32%	SPARE 10%	2.2 KVA	6	A
SUM	29 KVA	80	AMPS	GRAND TOTALS	24.3	67	A

PROJ:	C-STORE-MCDONOUGH, GA			PANEL:	L2			DATED:	08/ 21/ 2025			REVS:	00	X
208	VOLT- LL		22	K-AIC RATING		ENCLOSURE TYPE:			NEMA 1					
120	VOLT- LN		3	PHASE	4 W	BRANCH OCP TY PE:			M.C BKRS					
225	BUSS AMPS		MLO	MAIN OCP		GENERAL NOTES:			SURFACE MTD					

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		LTG-POLE MTD	L	540	20	/ -	1	A	2	20	/ 1	1364	L	LTG-SALES		
		---	L	540	-	/ 2	3	B	4	20	/ 1	1198	L	LTG-KIT,SS,RRS,CASH		
		SPARE			20	/ -	5	C	6	20	/ 1	650	L	LTG-CLR/FZR, BR CV		
		---			-	/ 2	7	A	8	20	/ 1	500	L	LTG CONTA CTOR, LC-1		
		LTG-AUTO CANOPY	L	1320	20	/ -	9	B	10	20	/ 1	696	H	TEF-1		
		---	L	1320	-	/ 2	11	C	12	20	/ 1	1403	L	LTG-DRS/HTRS,#1C		
		LTG-AUTO FASCIA	L	1000	20	/ 1	13	A	14	20	/ 1	1403	L	LTG-DRS/HTRS,#1D		
		AIRVA CUUM	M	1500	20	/ 1	15	B	16	20	/ 1	1068	H	KEF-1		
	1	REC-CNY R OVN, #24	A	3848	50	/ -	17	C	18	20	/ 1	943	L	LTG-WALLPACKS		
		---	A	3848	-	/ 2	19	A	20	20	/ -	1000	L	LTG-MONUMENT SIGN		
		REC-FBD, #18	A	2080	20	/ -	21	B	22	-	/ 2	1000	L	---		
		---	A	2080	-	/ 2	23	C	24	20	/ 1	240	M	BEER CA VE DR, #2A		
		REC-SHOW WINDOW	L	1200	20	/ 1	25	A	26	20	/ 1			SPARE		
		REC-SHOW WINDOW	L	1200	20	/ 1	27	B	28	20	/ 1			SPARE		
		REC-SHOW WINDOW	L	1200	20	/ 1	29	C	30	20	/ 1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20	/ 1	31	A	32	20	/ 1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20	/ 1	33	B	34	20	/ 1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20	/ 1	35	C	36	20	/ 1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20	/ 1	37	A	38	20	/ 1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20	/ 1	39	B	40	20	/ 1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20	/ 1	41	C	42	20	/ 1			SPARE		

NT# 1. FUTURE EQUIPMENT.

PHS-A	13 KVA	110	33%	FACTORED END-USE	42.4 KVA	118	A
PHS-B	13 KVA	108	32%	PASS THRU LOAD	0.0 KVA	0	A
PHS-C	14 KVA	117	35%	SPARE 10%	4.2 KVA	12	A
SUM	40 KVA	112	AMPS	GRAND TOTALS	46.7	130	A

PROJ:	C-STORE-MCDONOUGH, GA			PANEL:	L3			DATED:	08/ 21/ 2025			REVS:	00	X
208	VOLT- LL		22	K-AIC RATING		ENCLOSURE TYPE:			NEMA 1					
120	VOLT- LN		3	PHASE	4 W	BRANCH OCP TY PE:			M.C BKRS					
125	BUSS AMPS		MLO	MAIN OCP		GENERAL NOTES:			SURFACE MTD, NOTE 1					

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		REC-POS CASHIER, 101	M	500	20	/ 1	1	A	2	20	/ -	720	M	AUTO FUEL DISP. #1		
		SPACE				/	3	B	4		- / 2			FOR SWITCHED NEUTRAL		
		SPACE				/	5	C	6		/			SPACE		
		REC-POS CASHIER, 101	M	500	20	/ 1	7	A	8	20	/ -	720	M	AUTO FUEL DISP. #2		
		SPACE				/	9	B	10		- / 2			FOR SWITCHED NEUTRAL		
		SPACE				/	11	C	12		/			SPACE		
		REC-POS, SMK SHP, 103	M	500	20	/ 1	13	A	14	20	/ -	720	M	AUTO FUEL DISP. #3		
		SPACE				/	15	B	16		- / 2			FOR SWITCHED NEUTRAL		
		SPACE				/	17	C	18		/			SPACE		
		REC-POS, KITCHEN, 105	M	500	20	/ 1	19	A	20	20	/ -	720	M	AUTO FUEL DISP. #4		
		SPACE				/	21	B	22		- / 2			FOR SWITCHED NEUTRAL		
		SPACE				/	23	C	24		/			SPACE		
		REC-COMPUTER, OFFICE	M	500	20	/ 1	25	A	26	20	/ -	720	M	AUTO FUEL DISP. #5		
		SPACE				/	27	B	28		- / 2			FOR SWITCHED NEUTRAL		
		SPACE				/	29	C	30		/			SPACE		
		UL SUB PUMP	M	1140	20	/ -	31	A	32		/			SPACE		
		---	M	1140	-	/ 2	33	B	34		/			SPACE		
		REG SUB PUMP	M	1140	20	/ -	35	C	36		/			SPACE		
		---	M	1140	-	/ 2	37	A	38	20	/ 1	500	M	INTERFACE		
		DIESEL SUB PUMP	M	1140	20	/ -	39	B	40	20	/ 1	500	M	EMERG STOP CTLS		
		---	M	1140	-	/ 2	41	C	42	20	/ 1	500	M	VEEDER ROOT		

NT# 1. PROVIDE W/ISOLATED GROUND BUS.

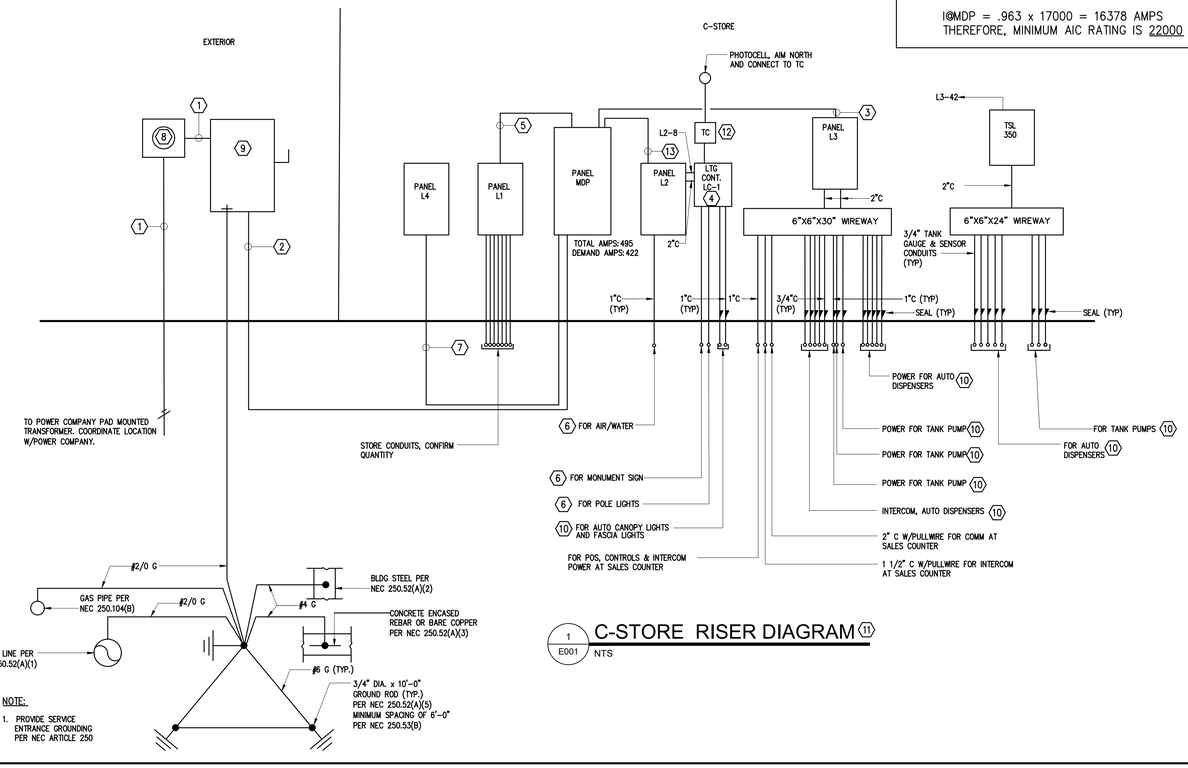
PHS-A	9 KVA	74	61%	FACTORED END-USE	13.6 KVA	38	A
PHS-B	3 KVA	23	19%	PASS THRU LOAD	0.0 KVA	0	A
PHS-C	3 KVA	23	19%	SPARE 10%	1.4 KVA	4	A
SUM	14 KVA	40	AMPS	GRAND TOTALS	14.9	41	A

PROJ:	C-STORE-MCDONOUGH, GA			PANEL:	L4			DATED:	08/ 21/ 2025			REVS:	00	X
208	VOLT- LL		10	K-AIC RATING		ENCLOSURE TYPE:			NEMA 1					
120	VOLT- LN		3	PHASE	4 W	BRANCH OCP TY PE:			M.C BKRS					
100	BUSS AMPS		MLO	MAIN OCP		GENERAL NOTES:			SURFACE MTD, NOTE 2					

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		REC-COFFEE BRWR, #36	A	2496	30	/ -	1	A	2	20	/ 1	1000	A	REC-CREAM DISP, #38	1	
		---	A	2496	-	/ 2	3	B	4	20	/ 1	1000	A	REC-CREAM DISP, #38	1	
		REC-COFFEE BRWR, #36	A	2496	30	/ -	5	C	6	20	/ 1	1000	R	REC-FLOOR BOX		
		---	A	2496	-	/ 2	7	A	8	20	/ 1	1000	R	REC-FLOOR BOX		
		REC-CAPPUCINO, #37	A	1800	20	/ 1	9	B	10	20	/ 1	1000	R	REC-FLOOR BOX		
		REC-CAPPUCINO, #37	A	1800	20	/ 1	11	C	12	20	/ 1	1000	R	REC-FLOOR BOX		
		SPARE			20	/ 1	13	A	14	20	/ 1	1000	R	REC-FLOOR BOX		
		SPARE			20	/ 1	15	B	16	20	/ 1	1000	R	REC-FLOOR BOX		
		SPARE			20	/ 1	17	C	18	20	/ 1			SPARE		
						/	19	A	20		/					
						/	21	B	22		/					
						/	23	C	24		/					
						/	25	A	26		/					
						/	27	B	28		/					
						/	29	C	30		/					
						/	31	A	32		/					
						/	33	B	34		/					
						/	35	C	36		/					
						/	37	A	38		/					
						/	39	B	40		/					
						/	41	C	42		/					

NT# 1. PROVIDE HA CR TY PE CIRCUIT BREAKER (CB).
2. PROVIDE 18-POLE PANEL.

PHS-A	8 KVA	67	37%	FACTORED END-USE	16.1 KVA	45	A
PHS-B	7 KVA	61	34%	PASS THRU LOAD	0.0 KVA	0	A
PHS-C	6 KVA	52	29%	SPARE 10%	1.6 KVA	4	A
SUM	22 KVA	60	AMPS	GRAND TOTALS	17.7	49	A



1 E001 C-STORE RISER DIAGRAM 11
NTS

FAULT CURRENT CALCULATION

SERVICE IS BASED ON AN ESTIMATED 225 KVA, PAD MOUNTED TRANSFORMER WITH A FAULT CURRENT OF 34722 AMPS AT THE TRANSFORMER SECONDARY (FROM XFMR FC TABLE). CONTRACTOR SHALL VERIFY FAULT CURRENT AVAILABLE FROM POWER COMPANY TRANSFORMER AND MAKE ADJUSTMENTS TO EQUIPMENT AIC RATING AS REQUIRED.

1. @ MAIN DISC SWITCH MDS: L = 100, E = 208, I_{sc} = 34722, C = 18868 (#350MCM CU)

   f = (1.732 x 100 x 34722)/(2 x 18868) X 208 =0.766

   1/1.766= 0.566

   I@MDS = .566 x 34722 = 19661 AMPS

2. @ PANEL MDP: LET-THRU 600A RK FUSES: I_{sc} = 17000, L = 10, E = 208, C = 18868 (#350KCMIL CU)

   f = (1.732 x 10 x 17000)/2 X 18868 X 208 =0.038

   1/1.038= 0.963

   I@MDP = .963 x 17000 = 16378 AMPS

   THEREFORE, MINIMUM AIC RATING IS 22000 FOR MDP.

FAULT CURRENT CALCULATION

3. @ PANEL L1: L = 5, E = 208, I_{sc} = 16378, C = 7692 (#1/0 CU)

   f = (1.732 x 5 x 16378)/7692 X 208 =0.089

   1/1.089= 0.918

   I@L1 = .918 x 16378 = 15039 AMPS

   THEREFORE, MINIMUM AIC RATING IS 22000 FOR L1.

4. @ PANEL L2: L = 5, E = 208, I_{sc} = 16378, C = 10638 (#3/0 CU)

   f = (1.732 x 5 x 16378)/10638 X 208 =0.064

   1/1.064= 0.940

   I@L2 = .940 x 16378 = 15393 AMPS

   THEREFORE, MINIMUM AIC RATING IS 22000 FOR L2.

5. @ PANEL L3: L = 10, E = 208, I_{sc} = 16378, C = 6250 (#1 CU)

   f = (1.732 x 10 x 16378)/6250 X 208 =0.218

   1/1.218= 0.821

   I@L3 = .821 x 16378 = 13447 AMPS

   THEREFORE, MINIMUM AIC RATING IS 22000 FOR L3.

6. @ PANEL L4: L = 30, E = 208, I_{sc} = 16378, C = 3333 (#4 CU)

   f = (1.732 x 30 x 16378)/3333 X 208 =1.228

   1/2.228= 0.449

   I@L4 = .449 x 16378 = 7351 AMPS

   THEREFORE, MINIMUM AIC RATING IS 10000 FOR L4.

RISER NOTES

1. PROVIDE 2 SETS-4#350KCMIL-3"C. (600A SERVICE)
2. PROVIDE 2 SETS-4#350KCMIL, 1 #2/0G - 3"C. (600A)
3. PROVIDE 4 #1, 1 #6G, 1#6IG - 1 1/2"C . (125A)
4. PROVIDE 16-POLE, WITH 208/120V, 20A CONTACTS IN NEMA 1 ENCLOSURE.
5. PROVIDE 4#1/0, 1#6G - 1 1/2"C. (150A)
6. EC SHALL VERIFY THE REQUIREMENT AND LOCATION FOR THIS EQUIPMENT.
7. PROVIDE 4#4, 1#10G - 1 1/4"C. (80A)
8. PROVIDE 600A, METER BASE. METER PROVIDED BY POWER COMPANY.
9. PROVIDE 600A, 208V, 3P DISCONNECT SWITCH W/NEMA 3R ENCLOSURE AND 600A RK FUSES, RATED FOR SERVICE ENTRANCE.
10. STUB CONDUIT OUT 5'-0" FROM FOUNDATION. MARK AND CAP END OF CONDUIT FOR CONNECTION BY OTHERS.
11. CONTRACTOR SHALL CONFIRM QUANTITY OF FUEL DISPENSERS, TANK PUMPS, POLE LIGHTS AND SIGNS BEFORE ROUGHIN-IN CONDUIT.
12. PROVIDE 24-HR, 7-DAY, ASTRONOMICAL TIME CLOCK W/PHOTOCELL AND CONNECT TO LC-1.
13. PROVIDE 4#3/0, 1#6G - 2"C. (200A)

PANELS MDP, 'L1', L2, L3 & L4 AND MDS LOAD SUMMARY

	CONN VA			DEMAND VA
'MDS':				
LIGHTING:	24700	x 125%	=	30875
RECEPTACLE:	16700	x 80%	=	13350
REFRIGERATION:	15192	x 100%	=	15192
HVAC:	41436	x 100%	=	29445
FOOD SERV:	45300	x 65%	=	35685
FUEL SERV EQ:	10020	x 100%	=	10020
MISC:	1700	x 80%	=	1360
TOTAL PANEL 'MDS'	155048/360= 430A			135927/360= 378A

385A x 125% = 482A
THEREFORE, SIZE 'MDS1', DISCONNECT SWITCH FEEDER, MAIN DISCONNECT SWITCH/FUSES FOR 600A.

PANEL'MDP':				
LIGHTING:	24700	x 125%	=	30875
RECEPTACLE:	16700	x 80%	=	13350
REFRIGERATION:	15192	x 100%	=	15192
HVAC:	41436	x 100%	=	29445
FOOD SERV:	45300	x 65%	=	35685
FUEL SERV EQ:	10020	x 100%	=	10020
MISC:	1700	x 80%	=	1360
TOTAL PANEL 'MDP'	155048/360= 430A			135927/360= 378A

378A x 125% = 472A
THEREFORE, SIZE PANEL 'MDP', PANEL FEEDER, PANEL MAIN CIRCUIT BREAKER FOR 600A .

PANEL'L1':				
RECEPTACLE:	10700	x 100%	=	10700
FOOD SERV EQ:	17800	x 65%	=	11570
TOTAL PANEL 'L1'	28500/360= 79A			22270/360= 62A

62A x 125% = 78A
THEREFORE, SIZE PANEL 'L1', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 150A.

PANEL'L2':				
LIGHTING:	24700	x 125%	=	30875
FOOD SERV EQ:	11900	x 100%	=	11900
HVAC:	1800	x 100%	=	1800
MISC:	1700	x 80%	=	1360
TOTAL PANEL 'L2'	40100/360= 111A			45935/360= 128A

128A x 125% = 160A
THEREFORE, SIZE PANEL 'L2', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 200A.

PANEL'L3':				
FUEL SERV EQ:	10020	x 100%	=	10020
TOTAL PANEL 'L3'	10020/120= 84A			10020/120= 84A

84A x 125% = 104A
THEREFORE, SIZE PANEL 'L3', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 125A.

PANEL'L4':				
RECEPTACLE:	6000	x 97%	=	6000
FOOD SERV EQ:	15600	x 65%	=	10140
TOTAL PANEL 'L4'	21600/360= 60A			16140/360= 45A

45A x 125% = 56A
THEREFORE, SIZE PANEL 'L4', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 80A.

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08/21/2025	PERMIT SET

DRAWN BY: BAM
CHK'D BY: JFM

PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
RISER DIAGRAM & CALCULATIONS

PROJECT NO: 24022

E001

REVIEWED FOR CODE COMPLIANCE
Henry County
Approval of these plans does not authorize the violation of any local, state or federal law, regulation or ordinance. Approval of these plans does not prevent the building official from requiring corrections to errors in the plans or violations that are discovered during construction.
Building Reviewer, ICC#5242480 - Will be Non-ICC Soon

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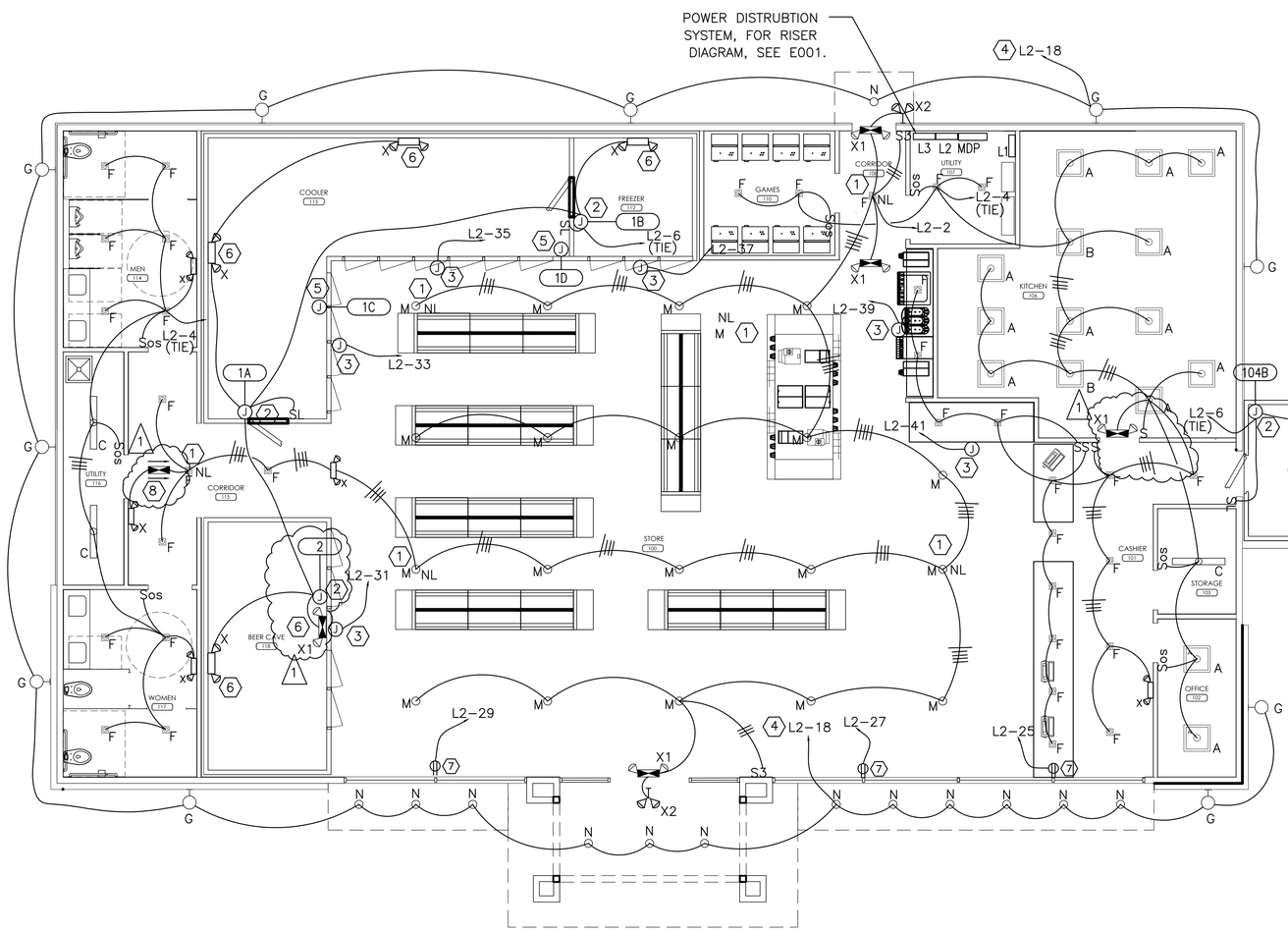

C-STORE LIGHTING PLAN

1 / E100 — 3/16"=1'-0"

GENERAL NOTES:

A. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
B. VERIFY ALL LIGHT FIXTURE LOCATIONS WITH REFLECTED CEILING PLAN A103. LOADING SHALL NOT EXCEED 1800VA. PROVIDE ALL MATERIAL AND LABOR, INCLUDING BUT NOT LIMITED TO, CONDUIT, WIRE, CIRCUIT BREAKERS, HANGERS, SWITCHES ETC., AS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
C. FOR LEGEND AND LIGHTING FIXTURE SCHEDULE, SEE DRAWING E000.
D. ALL LIGHT SWITCHES SHALL BE 120/277V, SINGLE-POLE, SINGLE-THROW, UON.
E. EXIT/EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF ROOM/AREA SWITCH OR CIRCUIT BREAKER, PER NEC ARTICLE 700-12(H).
F. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER, IF CIRCUITS ARE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL, CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.

KEYED NOTES:

1. CONNECT NL LIGHT FIXTURE AHEAD OF SWITCH.
2. LIGHT FIXTURES W/SWITCH, SUPPLIED W/DRINK COOLER/BEER COOLER/BEER CAVE, COOLER (104) AND FREEZER (105). EC SHALL INSTALL AS REQUIRED AND CONNECT TO COOLER/FREEZER/BEER CAVE/COOLER (104)/FREEZER (105) J-BOX.
3. PROVIDE J-BOX FOR INTERIOR SIGN. COORDINATE SIGN LOCATION W/SIGN SUPPLIER/INSTALLER/OWNER AND VERIFY SIGN ELECTRICAL LOADS. PROVIDE FINAL CONNECTION FROM J-BOX TO SIGN.
4. ROUTE CIRCUIT THRU LC-1.
5. ~~SAME AS NOTE #2 FOR COOLER DOOR LIGHTS.~~
6. PROVIDE EXIT LIGHT (X1)/EMERGENCY LIGHT FIXTURE (X) W/WEATHERPROOF ENCLOSURE AND COMPATIBLE FOR COOLER/FREEZER ENVIRONMENT.
7. ~~PROVIDE RECEPTACLE AND MOUNT ON WALL WITHIN 18" OF TOP OF WINDOW.~~
8. PROVIDE DOUBLE-SIDED EXIT LIGHT W/BATTERY BACKUP AND ARROWS AS INDICATED.

REVIEWED FOR CODE COMPLIANCE

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED NO.10443 PROFESSIONAL ENGINEER JESSE F. McCLOUGH
Jesse F. McClough 08/21/2025

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

	DATE	DESCRIPTION
	08/21/2025	PERMIT SET
1	10/28/2025	PERMIT SET COMMENT RESPONSES

DRAWN BY: BAM
CHK'D BY: JFM

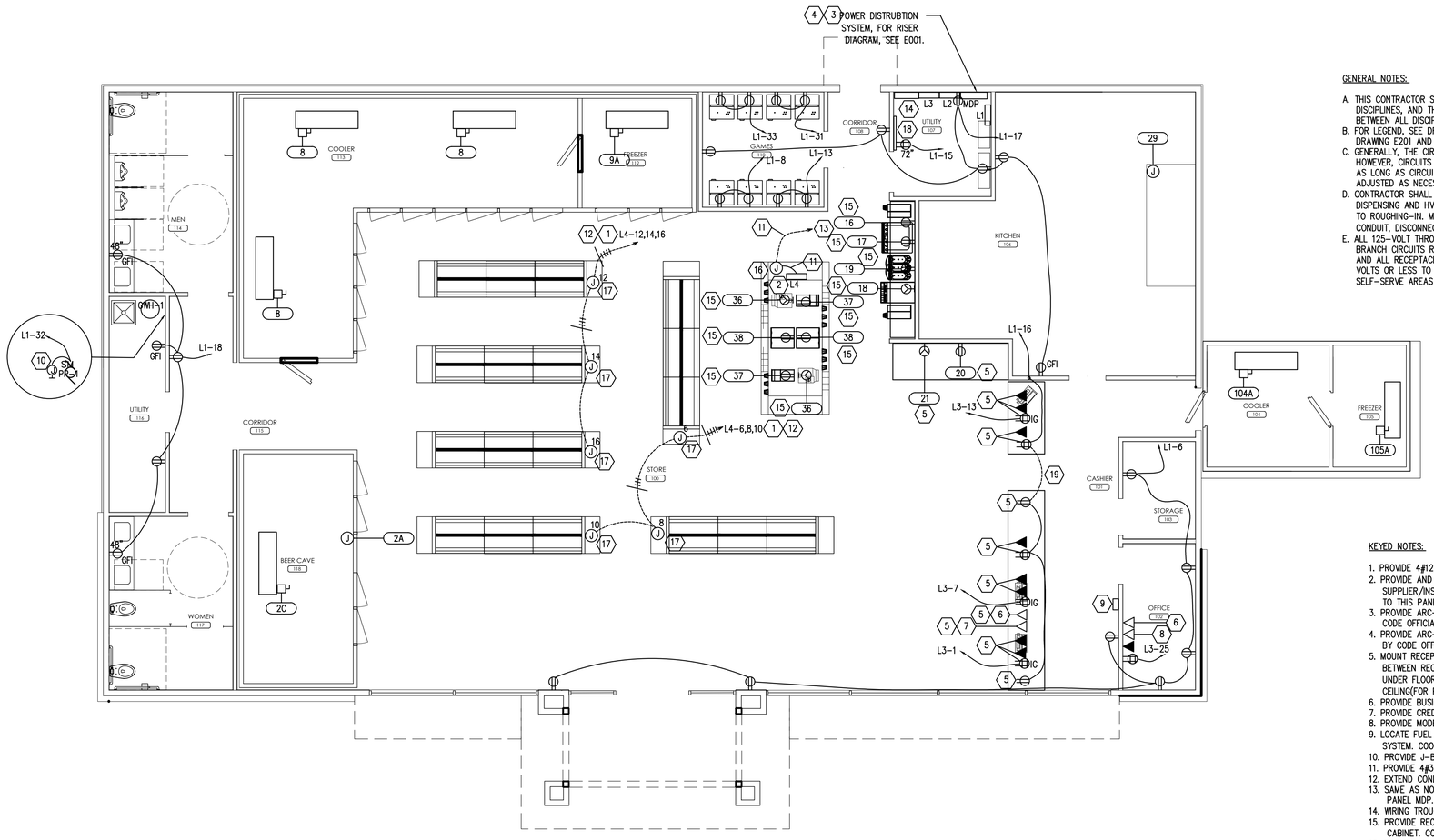
PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
LIGHTING PLAN

PROJECT NO: 24022

E100



1 / E200 C-STORE POWER PLAN

3/16"=1'-0"

GENERAL NOTES:

A. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
B. FOR LEGEND, SEE DRAWING E000, FOR MECHANICAL EQUIPMENT SCHEDULE, SEE DRAWING E201 AND FOR FOOD SERVICE EQUIPMENT SCHEDULE, SEE THIS DRAWING.
C. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER, CIRCUITS MAY BE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL AS LONG AS CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
D. CONTRACTOR SHALL VERIFY ALL FOOD SERVICE, COOLER/FREEZER/BEER CAVE, FUEL DISPENSING AND HVAC EQUIPMENT ELECTRICAL LOADS AND REQUIREMENTS PRIOR TO ROUGHING-IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT, DISCONNECT SWITCHES, RECEPTACLES AND CIRCUIT BREAKER SIZING, ETC.).
E. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN FOOD PREP AND SELF-SERVE AREAS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC 210.8(B).

KEYED NOTES:

1. PROVIDE 4#12, 1#12G CONDUCTORS IN 1" C TO PANEL AND CIRCUITS INDICATED.
2. PROVIDE AND MOUNT PANEL L4 INSIDE CABINET. COORDINATE LOCATION W/ SUPPLIER/INSTALLER. CONNECT ALL EQUIPMENT CIRCUITS ON ISLAND AND SHELVING TO THIS PANEL.
3. PROVIDE ARC-FLASH WARNING SIGNAGE PER NEC 2014-110.16 AND APPROVED BY CODE OFFICIAL.
4. PROVIDE ARC-FAULT WARNING SIGNAGE PER NEC 2014-110.24(A) AND APPROVED BY CODE OFFICIAL.
5. MOUNT RECEPTACLES AND PHONE/DATA OUTLETS INSIDE CABINETS. ROUTE CONDUIT BETWEEN RECEPTACLES AND PHONE/DATA OUTLETS INSIDE CABINETS AND EXTEND UNDER FLOOR SLAB TO NEAREST WALL. ROUTE CONDUIT UP WALL TO 6" ABOVE CEILING(FOR PHONE/DATA) OR TO PANEL INDICATED(FOR POWER).
6. PROVIDE BUSINESS LINE TELEPHONE OUTLET.
7. PROVIDE CREDIT CARD TELEPHONE OUTLET.
8. PROVIDE MODEM TELEPHONE OUTLET.
9. LOCATE FUEL SYSTEM "EMERGENCY STOP" PUSHBUTTON AND CONNECT TO FUEL SYSTEM. COORDINATE LOCATION W/OWNER AND LOCAL AUTHORITIES.
10. PROVIDE J-BOX FOR WATER HEATER CONTROLS AND PP-1.
11. PROVIDE 4#3, 1#8G-1 1/4"C.
12. EXTEND CONDUIT CIRCUIT UNDER SLAB TO PANEL AND CIRCUIT INDICATED.
13. SAME AS NOTE #12 FOR PANEL L4 FEEDER CONDUIT FOR SELF-SERVE ISLAND TO PANEL MDP.
14. WIRING TROUGH W/ VEEDER-ROOT EQUIPMENT. SEE RISER DIAGRAM, E001.
15. PROVIDE RECEPTACLE, AS SHOWN IN EQUIPMENT SCHEDULE, AND MOUNT INSIDE CABINET. COORDINATE LOCATION WITH CABINET SUPPLIER/INSTALLER.
16. PROVIDE J-BOX (SIZED AS REQUIRED) FOR CIRCUITS W/COVERPLATE FLUSH W/CONCRETE SLAB .
17. SAME AS NOTE #16 AND PROVIDE SPECIAL/ DUPLEX RECEPTACLE IN J-BOX W/COVERPLATE FLUSH W/ SLAB.
18. PROVIDE 2'-0" X 2'-0" X 3/4" PLYWOOD TELEPHONE BACKBOARD. PAINT W/FIRE RETARDANT PAINT AND PROVIDE 1#6G FROM BACKBOARD GROUND BAR TO SERVICE ENTRANCE GROUND. PROVIDE 2-2"C W/PULLWIRE FROM BACKBOARD TO TELEPHONE SERVICE CABINET. COORDINATE LOCATION W/ PHONE CO., SEE E300.
19. SAME AS NOTE #12 FOR CIRCUIT CONDUIT FROM THE RECEPTACLE IN ONE CASHIER COUNTER TO THE RECEPTACLE IN THE OTHER CASHIER COUNTER.

C-STORE SELF-SERVE FOOD SERVICE EQUIPMENT

ITEM NO.	QTY	DESCRIPTION	ELECTRICAL													NOTES
			VOLTS	PHASE	KW	HP	FLA	CIRCUIT DESIG	BREAKER AMPS	BREAKER POLE	FEEDER	DIRECT PLUG		PLUG TYPE		
1A	1	11-DR COOLER LTS	120	1			1.46	L2-6	20	1	2#12, 1#12G-3/4"C	X				1
1B	1	3-DR FREEZER LTS	120	1			0.58	L2-6	20	1	2#12, 1#12G-3/4"C	X				1
1C	7	COOLER DR LTS/HTRS	120	1			11.7	L2-12	20	1	2#12, 1#12G-3/4"C	X				1
1D	7	CLR/FZR DR LTS/HTRS	120	1			11.7	L2-14	20	1	2#12, 1#12G-3/4"C	X				1
2	1	BEER CAVE LTS	120	1			2.50	L2-6	20	1	2#12, 1#12G-3/4"C	X				1
2A	1	BEER CAVE DR HTRS	120	1			2.00	L2-24	20	1	2#12, 1#12G-3/4"C	X				
2B	1	BEER CAVE COND UNIT	208	3			11.6	MDP-19,21,23	20	3	3#12, 1#12G-3/4"C	X			30/3/NF/3R	2,4,6
2C	1	BEER CAVE EVAP COILS	120	1			6.00	L1-35	20	1	2#12, 1#12G-3/4"C	X			30/1/NF/3R	3
7	1	11-DR COOLER COND UNIT	208	3			23.5	MDP-13,15,17	45	3	3#8, 1#10G-3/4"C	X			60/3/NF/3R	2,4,6
8	3	11-DR COOLER FAN COILS	120	1			6.00	L1-19	20	1	2#12, 1#12G-3/4"C	X			30/1/NF/3R	3
9	1	3-DR FREEZER COND UNIT	208	3			11.9	MDP-25,27,29	20	3	3#12, 1#12G-3/4"C	X			30/3/NF/3R	2,4,6
9A	1	3-DR FREEZER FAN COIL	208	1			15.2	L1-39,41	20	2	2#12, 1#12G-3/4"C	X			30/2/NF/3R	3
16	1	ICE AND BEV DISPENSER	120	1			7.00	L1-9	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
17	1	ICE MAKER	120	1			11.8	L1-11	30	1	2#10, 1#10G-3/4"C		X	NEMA 5-30R		7
18	1	CARB FROZEN BEVERAGE	208	1			20.0	L2-21,23	30	2	2#10, 1#10G-3/4"C		X	NEMA 6-30R		7
19	1	UC FROZEN BEVERAGE	120	1			13.2	L1-1	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
20	1	HEATED MERCHANDISER	120	1			14.7	L1-14	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
21	1	HEATED MERCHANDISER	208	1			6.00	L1-2,4	20	2	2#12, 1#12G-3/4"C		X	NEMA 6-20R		

C-STORE SELF-SERVE FOOD SERVICE EQUIPMENT

ITEM NO.	QTY	DESCRIPTION	ELECTRICAL													NOTES
			VOLTS	PHASE	KW	HP	FLA	CIRCUIT DESIG	BREAKER AMPS	BREAKER POLE	FEEDER	DIRECT PLUG		PLUG TYPE		
29	1	EXH HOOD, FSS, LTS, CTLS	120	1			4.20	L1-34	20	1	2#12, 1#12G-3/4"C	X				8
36	2	COFFEE BREWER	208	1			24.0	L4-1,3	30	2	2#10, 1#10G-3/4"C		X	NEMA 6-30R		
		COFFEE BREWER	208	1			24.0	L4-5,7	30	2	2#10, 1#10G-3/4"C		X	NEMA 6-30R		
37	2	CAPPACCINO	120	1			15.0	L4-9	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
		CAPPACCINO	120	1			15.0	L4-11	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
38	2	CREAMER DISPENSER	120	1			8.33	L4-2	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
		CREAMER DISPENSER	120	1			8.33	L4-4	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R		
104	1	COOLER COND UNIT	208	3			11.6	MDP-31,33,35	20	3	3#12, 1#12G-3/4"C	X			30/3/NF/3R	2,4,6
104A	1	COOLER FAN COIL	120	1			3.00	L1-25	20	1	2#12, 1#12G-3/4"C	X			30/1/NF/3R	3
104B	1	COOLER LTS	120	1			0.58	L2-6	20	1	2#12, 1#12G-3/4"C	X				1
105	1	FREEZER COND UNIT	208	3			7.10	MDP-37,39,41	20	3	3#12, 1#12G-3/4"C	X			30/3/NF/3R	2,4,6
105A	1	FREEZER FAN COIL	208	1			10.1	L1-27,29	20	2	2#12, 1#12G-3/4"C	X			30/2/NF/3R	3
105B	1	FREEZER LTS	120	1			0.29	L2-6	20	1	2#12, 1#12G-3/4"C	X				1
POS	3	POS, CASHIER, 101	120	1			4.20	L3-1	20	1	2#12, 2#12G-3/4"C		X	NEMA 5-20R		5
		POS, CASHIER, 101	120	1			4.20	L3-7	20	1	2#12, 2#12G-3/4"C		X	NEMA 5-20R		5
		POS, KITCHEN, 105	120	1			4.20	L3-19	20	1	2#12, 2#12G-3/4"C		X	NEMA 5-20R		5
		HOOD, KEF-1	120	1			8.90	L2-16	20	1	2#12, 1#12G-3/4"C	X				8
		HOOD, MAU-1	208	3			26.1	MDP-26,28,30	30	3	3#10, 1#10G-3/4"C	X			30/3/NF/3R	8

FOOD SERVICE EQUIPMENT SCHEDULE NOTES:

NOTE 1. SEE DWG. E100.
NOTE 2. PROVIDE WP DISCONNECT SWITCH AND MOUNT TO CONDENSING UNIT ON ROOF. MAKE FINAL CONNECTION FROM DISC. SW. TO CONDENSING UNIT.
NOTE 3. PROVIDE WP DISCONNECT SWITCH AND MOUNT TO COIL. MAKE FINAL CONNECTION FROM DISC. SW. TO COIL.
NOTE 4. SEE DWG. E201.
NOTE 5. PROVIDE "IG" TYPE RECEPTACLE.
NOTE 6. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENTS. PROVIDE ALL INTERCONNECTIONS, AS REQUIRED.
NOTE 7. PROVIDE CORD AND PLUG PER EQUIPMENT ELECTRICAL REQUIREMENTS AND CONNECT PLUG TO CORD. PROVIDE RECEPTACLE TO MATCH PLUG.
NOTE 8. PROVIDE ALL CONDUIT AND WIRING REQUIRED TO CONNECT VENT HOOD AND FOR ALL THE POWER AND CONTROL FROM HOOD PRIMARY CONTROL PANEL, AS SHOWN ON THE CAPIVE-AIRE DWGS.

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REVIEWED FOR CODE COMPLIANCE
Approved: Scope of work contained in these construction documents complies with the applicable codes adopted by Henry County.
Building Permit No. _____ Date Issued _____
Comments: _____
Building Official(s): _____ Date: _____

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED NO. 10443 PROFESSIONAL ENGINEER Jesse F. McCullough 08/21/2025 JESSE F. McCULLOUGH

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08/21/2025	PERMIT SET

DRAWN BY: BAM
CHK'D BY: JFM

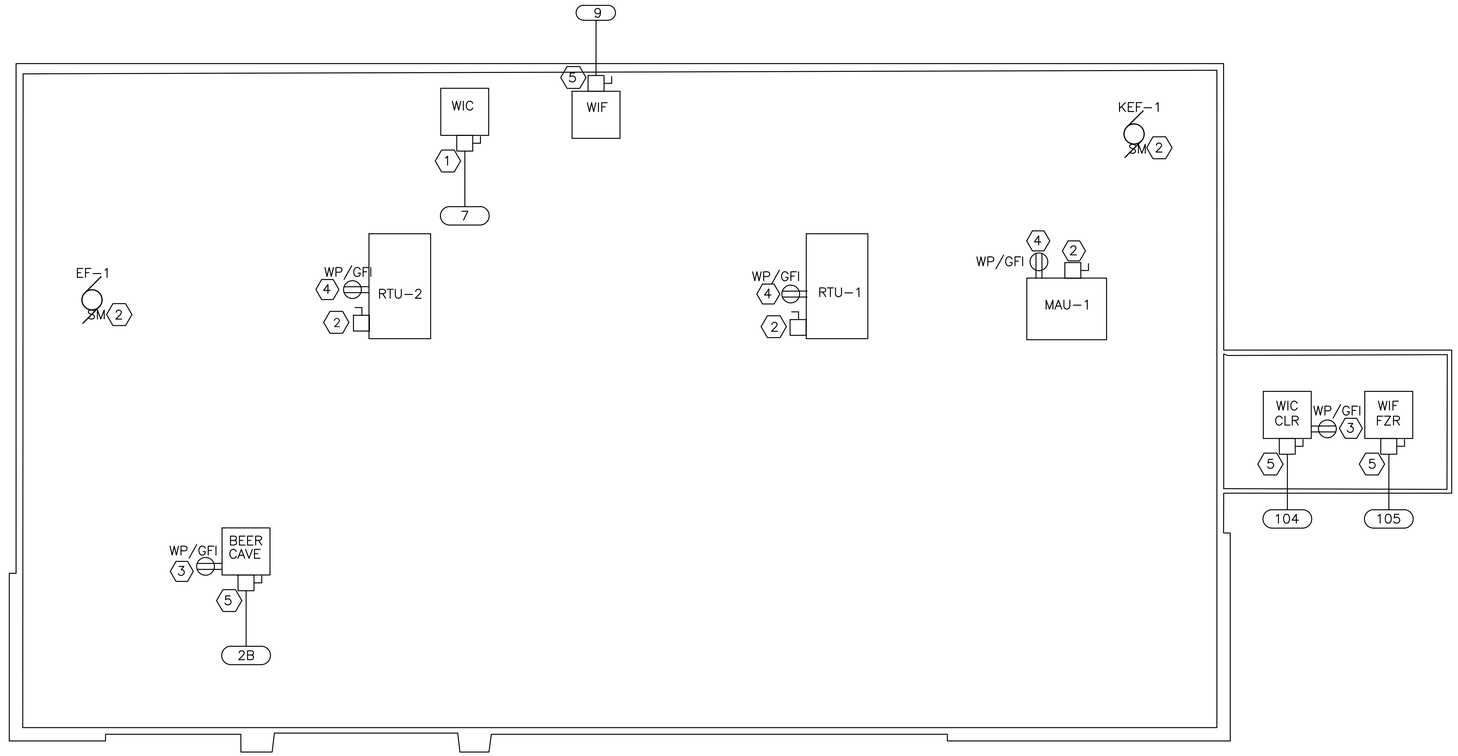
PROJECT DESCRIPTION:
CONVENIENCE STORE

PROJECT TITLE:
C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:
POWER PLAN

PROJECT NO: 24022

E200



MECHANICAL EQUIPMENT CONNECTION SCHEDULE					
EQUIPMENT	CIRCUIT DESIGNATION	FEEDER	DISCONNECT	FLA/KW	NOTES
RTU–1	MDP–14,16,18	3#8, #10(G), 1"C.	INCLUDED	42.0 MCA	1,2
RTU–2	MDP–20,22,24	3#8, #10(G), 1"C.	INCLUDED	42.0 MCA	1,2
KEF–1	NOTE 4	NOTE 4	NOTE 4	3/4 HP	1,4
MAU–1	NOTE 4	NOTE 4	NOTE 4	1 HP	1,4
EF–1	L2–10	2#12, #12(G), 3/4"C.	INCLUDED	1/4 HP	1,3

NOTES:

1. PROVIDE OVERCURRENT PROTECTION AND BRANCH CIRCUITS PER UL LISTED REQUIREMENTS FOR EQUIPMENT SERVED. REFER TO MANUFACTURER DATA AND EQUIPMENT CUT–SHEETS FOR ROUGHIN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS FOR ALL EQUIPMENT. COORDINATE EXACT NAMEPLATE DATA OF EQUIPMENT BEING INSTALLED WITH MECHANICAL CONTRACTOR.

2. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR. EC SHALL PROVIDE AND INSTALL REMOTE ANNUNCIATORS VISIBLE IN THE CEILING BELOW FOR THE SMOKE DUCT DETECTORS IN THIS EQUIPMENT. CONNECT TO L1–7 IN C–STORE.

3. EXHAUST FAN SHALL HAVE CONTINUOUS OPERATION DURING OCCUPIED MODE.

4. EC SHALL WIRE HOOD EXHAUST FAN (KEF–1) AND HOOD SUPPLY FAN (MAU–1) AS SHOWN ON EQUIPMENT SCHEDULE ON DRAWING E200 AND AS SHOWN ON CAPTIVE AIRE DRAWINGS. FANS SHALL BE WIRED THRU FACTORY INSTALLED NON–FUSED DISCONNECT SWITCH ON KEF–1 AND FACTORY INSTALLED DISCONNECT SWITCH/VFD ON MAU–1.

1 E201 ROOF POWER PLAN
3/16"=1'-0"

GENERAL NOTES:

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
2. FOR LEGEND, SEE DRAWING E000.
3. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER, CIRCUITS MAY BE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL AS LONG AS CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING ARE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
4. CONTRACTOR SHALL VERIFY ALL REMOTE CONDENSER AND HVAC EQUIPMENT LOCATIONS AND ELECTRICAL LOADS AND REQUIREMENTS PRIOR TO ROUGHING –IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT, DISCONNECT SWITCHES AND CIRCUIT BREAKER SIZING, ETC.).
5. SEE FOOD SERVICE EQUIPMENT SCHEDULE, E002, FOR EQUIPMENT NUMBERS.

KEYED NOTES:

1. PROVIDE 60/3/NF/3R DISCONNECT SWITCH. MAKE FINAL CONNECTION FROM DISCONNECT SWITCH TO CONDENSER.
2. DISCONNECT SWITCH PROVIDED W/UNIT.
3. PROVIDE RECEPTACLE AND MOUNT TO UNIT. COORDINATE LOCATION W/INSTALLER. CONNECT TO CIRCUIT L1–23.
4. RECEPTACLE PROVIDED W/UNIT AND CONNECTED TO CIRCUIT L1–23.
5. PROVIDE 30/3/NF/3R DISCONNECT SWITCH. MAKE FINAL CONNECTION FROM DISCONNECT SWITCH TO CONDENSER.

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ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
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SEAL:

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08/21/2025	PERMIT SET

DRAWN BY: BAM

CHK'D BY: JFM

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

ROOF
POWER PLAN

PROJECT NO: 24022

E201

REVIEWED FOR CODE COMPLIANCE

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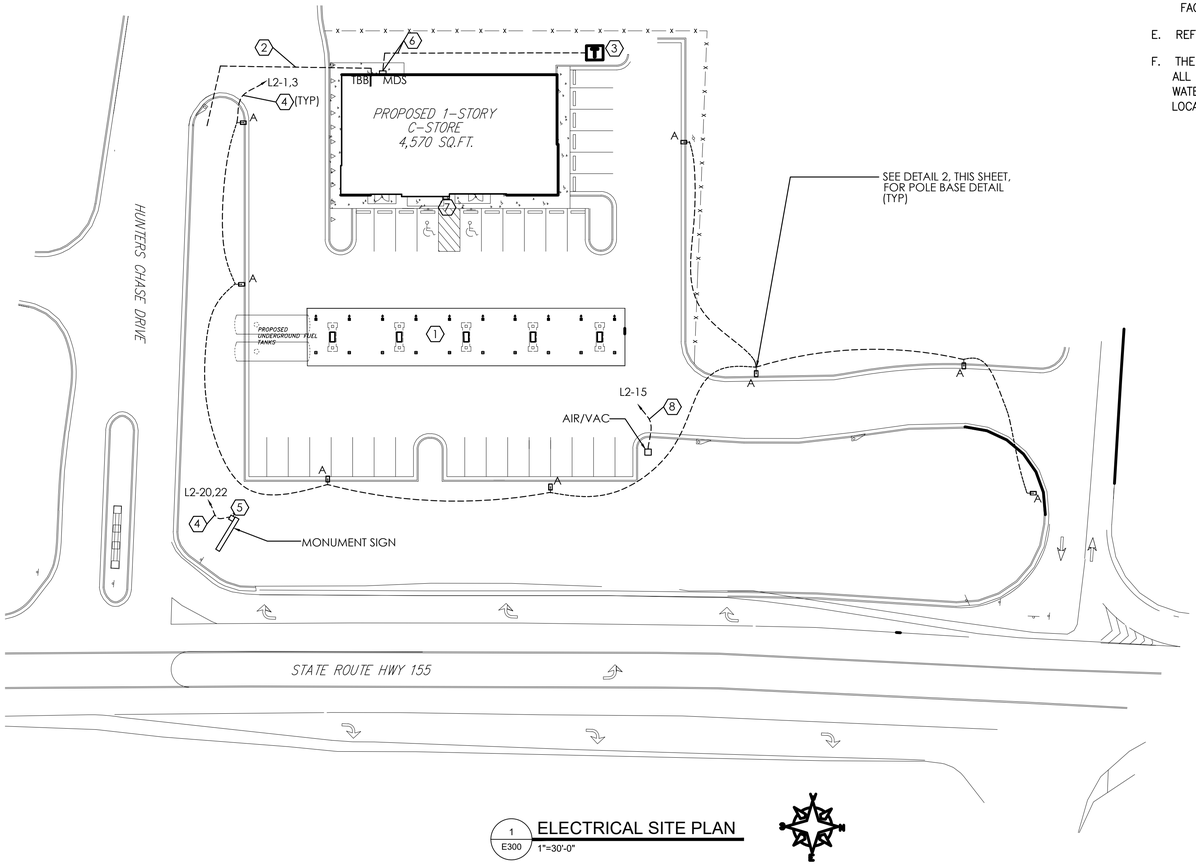


1 E300 ELECTRICAL SITE PLAN
1"=30'-0"

GENERAL NOTES:

A. EC SHALL PROVIDE AND INSTALL CONCRETE POLE BASES AND EC SHALL FIELD COORDINATE THE EXACT POLE BASE SIZE WITH THE ACTUAL FIXTURES AND POLES PURCHASED UTILIZING THE APPROVED MANUFACTURER TEMPLATE.

B. THE MINIMUM SIZE CONDUIT FOR THE SITE LIGHTING SHALL BE 1" SCHEDULE 40 PVC CONDUIT WITH RGS TYPE ELBOWS AND STUB-UPS. ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE. THE MINIMUM WIRE SIZE FOR THE SITE LIGHTING BRANCH CIRCUITS SHALL BE #10 (HOT, NEUTRAL, AND GROUND).

C. ALL EXTERIOR SITE, PARKING AND SIGNS SHALL BE CONTROLLED BY LIGHTING CONTACTOR, LC-1. EC SHALL VERIFY ALL LIGHTING AND SIGN LOADS PRIOR TO ROUGHING-IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT AND CIRCUIT BREAKER SIZING).

D. THE EC SHALL NOT DEVIATE FROM THE WIRING INDICATED. VOLTAGE DROP CALCULATIONS HAVE BEEN PERFORMED AND FACTORED IN FOR THIS LAYOUT, LOADS, AND WIRING SPECIFIED.

E. REFER TO THIS DRAWING FOR SITE LIGHTING FIXTURE SCHEDULE.

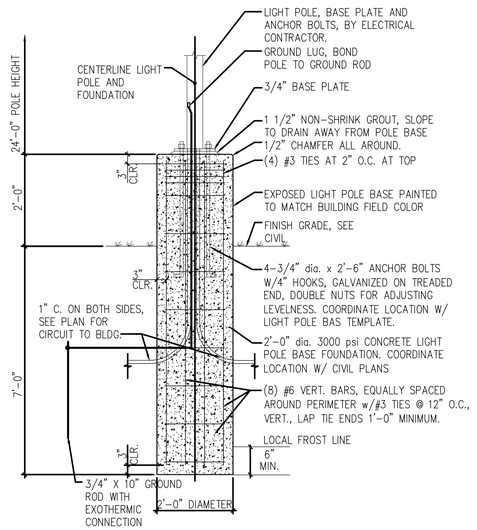
F. THE EC SHALL COORDINATE NEW ELECTRICAL INSTALLATION WITH ALL NEW AND EXISTING UTILITIES (ELECTRIC POWER, TELEPHONE, WATER, SEWER. STORM WATER, GAS, ETC.). EC SHALL CONFIRM LOCATION OF ALL EXISTING UTILITIES BEFORE DIGGING/TRENCHING.

ELECTRICAL SITE NOTES:

1. CANOPY LIGHTING BY OTHERS.
2. PROVIDE 2-2"C W/PULLWIRE FROM TELEPHONE SERVICE CABINET TO TELEPHONE SERVICE POINT. COORDINATE LOCATION OF TELEPHONE SERVICE POINT W/LOCAL TELEPHONE COMPANY.
3. PROPOSED PAD MOUNTED TRANSFORMER LOCATION. COORDINATE LOCATION AND TRANSFORMER REQUIREMENTS WITH LOCAL POWER COMPANY.
4. PROVIDE (2) #10 & (1) #10 GND IN 1" PVC. ROUTE CIRCUIT THRU LC-1.
5. PROVIDE 30/2/3R/NF DISCONNECT FOR SIGNAGE. COORDINATE LOCATION OF SIGN WITH SIGN INSTALLER AND OWNER. PROVIDE FINAL CONNECTION FROM DISCONNECT SWITCH TO SIGN.
6. ELECTRICAL SERVICE FEEDER, MAIN DISCONNECT SWITCH AND METER, SEE RISER DIAGRAM, E001.
7. PROVIDE "EMERGENCY POWER-OFF" SWITCH AND SIGNAGE PER NEC ARTICLE 514.11. COORDINATE LOCATION W/AHJ AND OWNER.
8. PROVIDE (2) #6 & (1) #10G IN 1" PVC.

EXTERIOR LIGHTING FIXTURE SCHEDULE

LEGEND	TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP	MOUNTING	COMMENTS
	A	LSI	SLM-LED-18L-SIL-FT-UNV-DIM-50-T4-BZ-HSS 70CRI-S-BRZ	208	LED	POLE-24'	135W
	POLE	LSI	4SQ-B3-S22G24-S-BRZ W/ABKIT=4SQ-STL-PL-3/4X30-11BC & KIT-BCVR-4BC-BRZ				



2 E300 POLE BASE DETAIL
SCALE: NOT TO SCALE

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED NO.10443 PROFESSIONAL ENGINEER Jesse F. McCullough 08/21/2025

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Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
08/21/2025	PERMIT SET

DRAWN BY: BAM
CHK'D BY: JFM

PROJECT DESCRIPTION:

CONVENIENCE STORE

PROJECT TITLE:

C-STORE
McDONOUGH, GA
Rd 155 @ Hunters Chase Dr.
McDonough, GA 30253

SHEET TITLE:

ELECTRICAL SITE PLAN

PROJECT NO: 24022

E300

REVIEWED FOR CODE COMPLIANCE
Henry County
Building Safety & Sanitation Department
Building Permit #, ZCR #
Reviewed By