

COMMUNITY CENTER BLDG. – PHASE TWO

8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

SCOPE OF WORK:
PHASE ONE:
DEMOLITION OF PORTIONS OF EXISTING WINGS,
RENOVATIONS TO REMAINING BUILDING,
ADDITION OF BUILDING FOR ELECTIONS DEPT.
PHASE TWO:
ADDITION OF COMMUNITY CENTER BUILDING

CONSULTANTS & CONTRACTORS

GENERAL CONTRACTOR

SUNBELT
BUILDERS™

CONTACT – MIKE McCROREY, JR.
10641 HWY 36
COVINGTON, GEORGIA 30014
(770) 786-3031

CIVIL ENGINEER

GEORGIA CIVIL, INC.

CONTACT – JASON BROWN
113 W. JEFFERSON ST., SUITE A
MADISON, GEORGIA 30650
(706) 342-1104

ARCHITECT

BETA DESIGN GROUP, INC.

CONTACT – MIKE SHACKLEY, AIA
2118 ROSSER PLACE
STONE MOUNTAIN, GEORGIA 30087
(770) 491-9250

STRUCTURAL ENGINEER

OCONEE ENGINEERING

CONTACT – RALPH BOSWELL, P.E.
P.O. BOX 116
GREENSBORO, GA. 30642
(770) 313-0302

MECHANICAL/PLUMBING CONSULTANT

TOTAL ENGINEERS

CONTACT – KRUNAL PATEL, P.E.
169 NEW STREET,
MACON, GEORGIA 31201
(478) 741-4632

ELECTRICAL CONSULTANT

ELECTRICAL DESIGN CONSULTANTS, INC.

CONTACT – JEFF McGEE, P.E.
175 NEW STREET, SUITE 1
MACON, GEORGIA 31201
(478) 781-1833

ABBREVIATIONS

SYMBOLS

ISSUE DATES

PROJECT CRITERIA

DRAWING INDEX

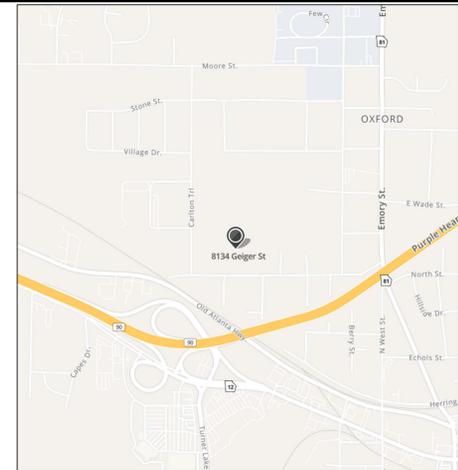
<p>© – AT A/C – AIR CONDITION A.C.T. – ACOUSTICAL CEILING TILE A.F.F. – ABOVE FINISH FLOOR ALUM. OR AL. – ALUMINUM ANOD. – ANODIZED APPROX. – APPROXIMATE A.S.F. – ALUMINUM STORE FRONT BD. – BOARD BLDG. – BUILDING BMC. – BUTLER MANUFACTURING CO. BOT. – BOTTOM C.O. – CASED OPENING C.J. – CONTROL JOINT C.T. – CERAMIC TILE C. – CENTER LINE OR COLUMN LINE CLG. – CEILING CLR. – CLEAR CMU. – CONCRETE MASONRY UNITS COL. – COLUMN CONC. – CONCRETE CONT. – CONTINUOUS CONTR. – CONTRACTOR D.S. – DOWNSPOUT DBL. – DOUBLE DEMO. – DEMOLITION DEPT. – DEPARTMENT DIA. – DIAMETER DIM. – DIMENSION DISP. – DISPENSER DISPL. – DISPOSAL DRWGS. – DRAWINGS DTL. – DETAIL EA. – EACH E.F. – EXHAUST FAN EQ. – EQUAL E.W.C. – ELECTRIC WATER COOLER E.I.F.S. – EXTERIOR INSULATION FINISH SYSTEM ELEC. – ELECTRICAL ELEV. – ELEVATION EQUIP. – EQUIPMENT E.S. – EXPOSED STRUCTURE E.S.Q. – EPOXY SEAMLESS QUARTZ EXIST. – EXISTING EXT. – EXTERIOR F.D. – FLOOR DRAIN F.E. – FIRE EXTINGUISHER F.F. – FINISH FLOOR FLR. – FLOOR F.O.B. – FACE OF BRICK F.O.C. – FACE OF CONCRETE F.O.M. – FACE OF MASONRY F.O.S. – FACE OF STUD FOUND. OR FDN. – FOUNDATION F.R.P. – FIBERGLASS REINFORCED PANELS F.R.T. – FIRE RETARDANT TREATED FTG. – FOOTING F.V. – FIELD VERIFY G.B. – GAGE OR GAUGE G.C. – GENERAL CONTRACTOR GYP.BD. – GYPSUM WALL BOARD H. – HIGH H. OR H.C. – HANDICAP H.B. – HAIRPIN BAR H.D. – HUB DRAIN H.M. – HOLLOW METAL HT. – HEIGHT HORIZ. – HORIZONTAL INSUL. – INSULATION JST. – JOIST JT. – JOINT L'DRY. – LAUNDRY LLH. – LONG LEG HORIZONTAL LLV. – LONG LEG VERTICAL</p>	<p>M. – MIRROR M.C.I. – MASONRY CONTROL JOINT M.C. – MASONRY COLUMN M.S. – METAL STUD M.S.S. – MISC. STEEL SUPPLIER MANUF. OR MFR. – MANUFACTURER MAX. – MAXIMUM MECH. – MECHANICAL MEZZ. – MEZZANINE MIN. – MINIMUM MISC. – MISCELLANEOUS M.O. – MASONRY OPENING MTL. – METAL N.I.C. – NOT IN CONTRACT N.R.P. – NON-REMOVABLE (HINGE) PIN N.T.S. – NOT TO SCALE O.C. – ON CENTER O.H. – OVERHEAD OR OPPOSITE HAND O.F.C.I. – OWNER FURNISH, CONTRACTOR INSTALL O.F.O.I. – OWNER FURNISH, OWNER INSTALL PART. – PARTITION PL. – PLATE PLUMB. – PLUMBING PNL. – PANEL POLY. – POLYETHYLENE PRE-FIN OR P.F. – PRE-FINISHED PSF. – POUND PER SQUARE FOOT PSI. – POUND PER SQUARE INCH P.T. – PRESSURE TREATED PT. – PAINT P.T.D. – PAPER TOWEL DISPENSER Q.T. – QUARRY TILE R. – RISER REF. – REFERENCE REINF. – REINFORCE REQ'D. – REQUIRED R.O. – ROUGH OPENING S. – STRUCTURE LINE S.D. – SOAP DISPENSER S.F. – SQUARE FOOT S.J. – SAVED JOINT S.N.D. – SANITARY NAPKIN DISP. S.P.J. – SECOND POUR JOINT S.R. – SPRINKLER RISER S.S. – STAINLESS STEEL ST. – STAIN SCWD. – SOLID CORE WOOD SPECS. – SPECIFICATIONS STL. – STEEL STRUCT. – STRUCTURAL S/S. – SLOP SINK OR SANITARY SEWER T.D.S. – TURNED DOWN SLAB T.F. – TOP OF FOOTING T.P.D. – TOILET PAPER DISPENSER T.O.C. – TOP OF CONCRETE T.O.S. – TOP OF STEEL T.O.W. – TOP OF WALL T.S. – THICK SLAB TEMP. – TEMPERED TR. – TRAYS TYP. – TYPICAL U.L. DES. NO. – UNDERWRITERS LABORATORIES DESIGN NO. U.N.O. – UNLESS NOTED OTHERWISE U.S. – URINAL SCREEN V.C.T. – VINYL COMPOSITION TILE VERT. – VERTICAL VWC. – VINYL WALL COVERING VXB. – VERTICAL "X" BRACING W. – WIDE W. – WITH W/H. – WATER HEATER WD. – WOOD WF. – WALL FOOTING W.R. – WATER RESISTANT</p>
--	--

<p>NORTH ARROW</p> <p>EXTERIOR ELEVATION</p> <p>INTERIOR ELEVATION</p> <p>WALL SECTIONS</p> <p>DETAIL REFERENCE</p> <p>DRAWING TITLE</p> <p>WINDOW TYPES</p> <p>HANDICAP FIXTURE</p> <p>FIRE EXTINGUISHER</p> <p>PIPE BOLLARD</p>	<p>TITLE ROOM NUMBER</p> <p>TOILET ACCESSORIES OR EQUIPMENT NUMBER</p> <p>DOOR NUMBER</p> <p>CEILING FINISH</p> <p>DATUM ELEVATION</p> <p>COLUMN LINE</p> <p>MATCH LINE</p> <p>REVISION / REISSUE</p> <p>SPANDREL GLASS</p> <p>TEMPERED GLASS</p> <p>WALL TYPE</p>
---	--

MATERIALS

BRICK	EARTH
CONCRETE	GRAVEL
CONCRETE MASONRY UNIT (C.M.U.)	METAL – FERROUS STEEL
METAL LATH & STUCCO	GYPSUM BOARD SHOWN IN SECTION
RIGID INSULATION	PLYWOOD
BATT INSULATION	FINISH WOOD

VICINITY MAP



04/19/24	PROGRESS SET RELEASED FOR PRICING
06/28/24	RELEASED FOR PERMIT AND CONSTRUCTION

NAME OF DEVELOPMENT: RL COUSINS COMMUNITY CENTER
 LOCATION OF DEVELOPMENT: 8134 Geiger Street, N.W., Covington, Georgia
 ARCHITECT: E. MICHAEL SHACKLEY, A.I.A. PHONE #: (770) 491-9250 GA. STATE REGIS. #: 7718
 STR'L. ENG.: See structural drawings PHONE #: _____ GA. STATE REGIS. #: _____

A. Occupancy Classification: Mixed Use, Business, Storage, Assembly (Highest Use) – Group A-3
 B. Type of Construction: IIB Sprinklered: Yes Fire Alarm: Yes

C. Seismic Risk Category: II Seismic Design Category: C

D. Building Area in Square Feet:
 Existing 31,813 Demolition 0 Additions: 9,384 Total: 41,197

Allowable area: $A_a = A_t + \left[\frac{A_t \text{ If}}{100} \right]$
 $A_a = 38,000 + 28,500 = 66,500$

E. Number of Stories: 1 Includes: Basement: N/A Mezzanine: N/A Canopy – Porch N

F. Building Height (ft): 25'-0" Max. per IBC: 75'

G. Building permit: Complete Yes Shell: No # Suites: - # Buildings: 1

H. Calculated Occupancy Load: 514, See sheet A-1.5.2

I. Required Minimum Live Loads in P.S.F.: Floor: 100 Roof: 20

J. All construction described in these plans shall be constructed in accordance with the following codes:
 1) International Building Code (ICC) – 2018 Edition with 2020, 2022 and 2024 Georgia State Amendments
 2) International Mechanical Code (IMC) – 2018 Edition with 2020 and 2024 Georgia State Amendments
 3) International Plumbing Code (IPC) – 2018 Edition with 2020, 2022, 2023 and 2024 Georgia State Amendments and IPC appendix F
 4) International Fire Code (IFC) – 2018 Edition with 2020 and 2022 Georgia State Fire Commissioner Amendments 120-3-3-.04
 5) International Fuel Gas Code (IFGC) – 2018 Edition with 2020 and 2022 Georgia State Amendments
 6) International Energy Conservation Code – 2015 Edition with 2020, 2022 and 2023 Georgia State Supplements and Amendments
 7) National Electrical Code (NEC) – 2020 Edition with 2021 Georgia State Amendments
 8) NFPA 101 Life Safety Code – 2018 Edition with 2022 Georgia State Fire Commissioner Amendments 120-3-3-.04(72)
 9) Georgia Accessibility Code Chapter 120-3-20(.01-.08) with 2022 Georgia State Fire Commissioner Amendments 120-3-3-.08 through .11
 10) U.S. Dept. of Justice, 2010 A.D.A. Standards for Accessible Design (adopted Mar. 15, 2012)
 11) NFPA 10 Portable Fire Extinguishers – 2018 Edition with 2022 Georgia State Fire Commissioner Amendments
 12) Georgia Erosion and Sedimentation Act of 1975, Third Edition, 1992
 13) Current editions of the NFPA Codes and Standards as adopted and modified by the State Fire Marshal, in particular 2020 OCGA 120-3-3 Georgia Minimum Fire Safety Standards
 14) International Existing Building Code – 2018 Edition with 2020 Georgia State Amendments
 15) NFPA 13, Automatic Fire Sprinkler Code, 2019 Edition with 2022 Georgia State Fire Commissioner Amendments

K. Owner shall maintain factory installed plugs in dumpster drains at all times so as to prohibit liquid drainage from dumpster.
 L. Signs are not approved under the scope of this Building Permit. A separate sign location permit is required for each sign. Please see Development Department for review and approval of all signage.
 M. Storage racks are not approved under this Building Permit. A separate racking permit is required for storage racking. Please see Development Department for review and approval of all racking.
 N. Each construction office trailer requires a separate building permit which shall be purchased directly from the Building Department Section.
 O. Plans for fire-protection sprinkler piping, including complete seismic support details, shall be reviewed and approved prior to installation by the City Fire Marshal's Office for compliance with NFPA 13 and ASCE/SEI 7-10 Sections 13.3.1 and 13.3.2.
 P. The drawings included in this package are instruments of service by contractual agreement with the client (see title block) and are intended for use for this particular project noted. Contractual obligations do not continue past the receipt of the building permit and contract administration services are not included in the scope of work provided by Beta Design Group, Inc. These drawings are the property of Beta Design Group, Inc. and may not be used for other projects or reproduced in any manner without the permission of Beta Design Group, Inc. By using these drawings for construction, the client represents that he has reviewed and approved the drawings.

<p>ARCHITECTURAL</p> <p>COVER SHEET</p> <p>A-0.3 GENERAL NOTES & SPECIFICATIONS</p> <p>A-0.4 GENERAL NOTES & SPECIFICATIONS</p> <p>A-1.0.4 WING B (PHASE 2) DEMOLITION PLAN</p> <p>A-1.2 OVERALL (PHASE 2) RENOVATED KEY PLAN</p> <p>A-1.2.4 ENLARGED FLOOR PLAN</p> <p>A-1.2.5 INTERIOR FLOOR PLAN</p> <p>A-1.3.4 COMM. CTR. REFLECTED CEILING PLAN</p> <p>A-1.5 ROOF PLAN</p> <p>A-1.5.2 LIFE SAFETY PLAN</p> <p>A-1.5.3 ENLARGED FOLDED PLANS & DETAILS</p> <p>A-2.2 BUILDING ELEVATIONS</p> <p>A-3.1.1 INTERIOR FINISH & WINDOW SCHEDULES</p> <p>A-3.2.1 DOOR SCHEDULE</p> <p>A-3.3.1 DOOR DETAILS</p> <p>A-3.5 INTERIOR ELEVATIONS</p> <p>A-4.1.4 WALL TYPE DETAILS</p> <p>A-4.1.5 WALL TYPE DETAILS</p> <p>A-4.4 WALL SECTIONS</p> <p>A-4.5 WALL SECTIONS</p> <p>A-4.6 WALL SECTIONS</p> <p>A-4.7 WALL SECTIONS</p> <p>A-4.8 WALL SECTIONS</p> <p>A-4.9 WALL SECTIONS</p> <p>A-4.10 WALL SECTIONS</p> <p>A-5.2 CONSTRUCTION DETAILS</p> <p>STRUCTURAL</p> <p>S-0.1 STRUCTURAL SPECIFICATIONS</p> <p>S-0.2 STRUCTURAL SPECIFICATIONS</p> <p>S-0.3 SPECIAL INSPECTIONS</p> <p>2S-1.0 FOUNDATION PLAN</p> <p>2S-1.1 ROOF FRAMING PLAN</p> <p>2S-3.0 SECTIONS</p> <p>2S-3.1 SECTIONS</p> <p>2S-3.2 SECTIONS</p> <p>2S-4.0 FOUNDATION & FRAMING DETAILS</p> <p>2S-4.1 FRAMING DETAILS</p> <p>The drawings listed below were prepared by other consultants that are not under direct supervisory control of Beta Design Group and are included herein for reference and convenience only. This list has been prepared to the best of our ability and may not reflect the complete list of drawings available for this project.</p> <p>MECHANICAL</p> <p>M-0.1 MECHANICAL SPECIFICATIONS</p> <p>M-0.2 MECHANICAL SCHEDULES</p> <p>M-0.3 MECHANICAL DETAILS</p> <p>M-1.0 OVERALL MECHANICAL PLAN</p> <p>M-1.1 ENLARGED COMM. BLDG. MECH. PLAN</p> <p>PLUMBING</p> <p>P-0.1 PLUMBING SPECIFICATIONS</p> <p>P-0.2 FIRE SPRINKLER SPECIFICATIONS</p> <p>P-1.0 OVERALL PHASE TWO PLUMBING PLAN</p> <p>P-1.1 COMMUNITY BLDG. PLUMBING PLAN</p> <p>P-2.1 RR & KITCHEN PLUMBING PLANS</p> <p>ELECTRICAL</p> <p>E-0.1 ELECTRICAL SPECS., DETAILS & LEGENDS</p> <p>E-0.2 ELECTRICAL SPECIFICATIONS</p> <p>E-1.1 SITE PLAN – ELECTRICAL</p> <p>E-2.1 COMMUNITY BUILDING PLAN – LIGHTING</p> <p>E-3.1 COMMUNITY BUILDING PLAN – POWER & TEL/DATA/TV</p> <p>E-4.1 COMMUNITY BUILDING PLAN – FIRE ALARM, SOUND & SECURITY</p> <p>E-5.1 POWER RISER DIAGRAM, DETAILS & SCHEDULES</p> <p>E-6.1 ELECTRICAL DETAILS</p> <p>E-6.2 COMCHECK LIGHTING REPORTS</p>

phase two, for construction



Beta Design Group, Inc.
Architects
2118 Rosser Place
Stone Mountain, GA. 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com



SUNBELT
BUILDERS™
10641 HWY 36 COVINGTON, GA 30014 1.770.786.040

Client: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date: 07/11/24
E.M.S. 1. DRWG. COORD. W/ CONTR.
08/12/24
E.M.S. 2. CITY COMMENTS

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision: 08/12/24
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 Cover

Sheet Title:
COVER SHEET

Sheet No.:
2023012B

(ORDINARY HAZARD, 2 X 1500 SF.) AND MAXIMUM TRAVEL DISTANCE TO BE 75 FT.

- 1. COMMERCIAL KITCHENS SHALL HAVE A CLASS K FIRE EXTINGUISHER.
- 2. PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT NOT EXCEEDING 40 LBS. SHALL BE INSTALLED SO THAT ITS TOP IS NO HIGHER THAN 5'4" AND NOT LESS THAN 48" ABOVE THE FLOOR. HAND-HELD PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT EXCEEDING 40 LBS. SHALL BE INSTALLED SO THAT ITS TOP IS NOT MORE THAN 3.5 FEET (42") ABOVE THE FLOOR. THE CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF THE INSTALLED HAND-HELD EXTINGUISHERS SHALL NOT BE LESS THAN 4".

- 4. OWNER SHALL BE RESPONSIBLE FOR ADDITIONAL REQUIREMENTS AFTER ANY FIXTURES, RACKING, EQUIPMENT, ETC. ARE PLACED IN THE BUILDING.

DIVISION 11 - EQUIPMENT
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 12 - FURNISHINGS
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 13 - SPECIAL CONSTRUCTION
METAL BUILDING:
1. METAL BUILDING ROOF PANELS SHALL BE 3" HIGH, 24 GA. STANDING SEAM METAL ROOF PANELS BY METAL BUILDING MANUFACTURER, GALVALUME FINISH.

- 2. METAL PANELS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 3. CLEAN ALL METAL SHAVINGS, SCREWS AND GENERAL CONSTRUCTION DEBRIS FROM ROOF.

DIVISION 14 - CONVEYING SYSTEMS
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 15 - MECHANICAL
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

PLUMBING, PLUMBING ACCESSORIES, AND PLUMBING:
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

FIRE PROTECTION:

- 1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION (IE, IN TIMES OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC. THIS ACCESS SHALL BE WITHIN 40 FT. OF THE FIRE DEPARTMENT RISER CONNECTION(S).
- 2. HYDRANT(S) AND MAIN(S) SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
- 3. OPENINGS THROUGH FLOORS, SUCH AS STAIRWAYS, ELEVATOR HOISTWAYS, AND SHAFTWAYS USED FOR LIGHT, VENTILATION OR BUILDING SERVICES, SHALL BE ENCLOSED WITH FIRE BARRIERS (VERTICAL) SUCH AS WALL OR PARTITION ASSEMBLIES. SUCH ENCLOSURES SHALL BE CONTINUOUS FROM FLOOR TO FLOOR. OPENINGS SHALL BE PROTECTED AS APPROPRIATE FOR THE FIRE RESISTANCE RATING OF THE BARRIER.
- 4. WHERE A BEAM OR COLUMN BECOMES PART OF A FIRE RATED WALL OR CEILING IT MUST BE PROTECTED AND BE FIRE RATED AS IS THE WALL OR CEILING.
- 5. ALL PENETRATIONS, SUCH AS PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH ANY RATED FIRE BARRIER ASSEMBLY SHALL BE TIGHTLY SEALED USING AN APPROVED LISTED MATERIAL AND SYSTEM THAT IS TESTED AND COMPLYING WITH ASTM E-814 OR UL 1479 FOR FIRE RATING (TO BE USED AT ALL FIRE BARRIERS). SIGNS OR STENCILS SHALL BE PLACED ABOVE ALL CEILING LINES AND CONCEALED SPACES WITH THE WORDING "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". SPACING OF SIGNS TO BE 10'-0" MAXIMUM. LETTERS TO BE 2" MIN. HIGH AND HAVE A CONTRASTING BACKGROUND.
- 6. FINISH MATERIALS SHALL COMPLY WITH CHAPTER 8 OF 2018 INTERNATIONAL BUILDING CODE AND NFPA 101, 102, IE. SMOKE DEVELOPED AND FLAMESPREAD. PROVIDE VERIFICATION THAT PRODUCTS COMPLY WITH THE REQUIREMENTS. ANY COMBUSTIBLE INTERIOR TRIM (WOOD WALL PANELING, CARPET, ETC.) IN EXIT ENCLOSURES AND EXIT WAYS (CORRIDORS) SHALL BE OF CLASS "A" OR "B" MATERIALS WITH A FLAMESPREAD RATING OF 0-75 AND A SMOKE DEVELOPMENT RATING OF LESS THAN 450. INTERIOR FLOOR FINISHES IN CORRIDORS AND EXITS SHALL BE CLASS I OR CLASS II PER NFPA 253.
- 7. COMBUSTIBLE INTERIOR FINISH PRODUCTS SHALL COMPLY WITH THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE, 2018 EDITION AND VERIFICATION SHALL BE PROVIDED.
- 8. THE NUMERICAL STREET ADDRESS IS EXISTING.
- 9. CONSTRUCTION SHALL HAVE A FIRE RESISTANCE RATING EQUAL TO OR GREATER THAN THE FIRE RESISTANCE RATING OF ALL CONSTRUCTION WHICH IT SUPPORTS.
- 10. A KEY LOCK BOX IS REQUIRED PER COVINGTON CITY ORDINANCE. THE FIRE INSPECTOR WILL DETERMINE THE APPROPRIATE LOCATION FOR THE BOX DURING THE 50% INSPECTION. GENERALLY THESE BOXES ARE LOCATED 6 FEET ABOVE GRADE TO THE RIGHT OF THE MAIN ENTRY DOOR. CONTACT THE FIRE MARSHAL'S OFFICE FOR ORDER FORM INFORMATION AND LOCATIONS OF BOX(S).

FIRE SPRINKLER SYSTEM AND ALARM:

- 1. FIRE PROTECTION SYSTEM DESIGN AND DRAWINGS SHALL BE PREPARED BY THE SUCCESSFUL BIDDING SUBCONTRACTOR AND SHALL SUBMIT ONE SET OF DRAWINGS TO THE ARCHITECT/ENGINEER FOR USE IN COORDINATION. DESIGN SHALL MEET ALL APPLICABLE CODES AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE LOCAL INTERPRETATIONS BY THE ENFORCING AGENCY.
- 2. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A SEPARATE PERMIT FROM THE CITY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION. ANY FIRE SPRINKLER PLAN INCLUDED IN THIS SET OF PLANS IS FOR REFERENCE ONLY, NOT FOR PERMIT.
- 3. FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND PROVIDED IN ACCORDANCE WITH THE CITY FIRE PREVENTION AND PROTECTION ORDINANCE, 2018 EDITION, AND NFPA 13, 2018 EDITION. THE SPRINKLER SYSTEMS SHALL BE OFF-SITE MONITORED OR AT A CONSTANTLY ATTENDED LOCATION BY TRAINED PERSONNEL.
- 4. PROVIDE FIRE MARSHAL'S OFFICE WITH A COMPLETE SET OF SPRINKLER AND PIPE PLANS TO INCLUDE SITE PLAN WITH HYDRANT LOCATIONS, FIRE DEPARTMENT CONNECTION AND BUILDING/SPRINKLER LAYOUT. SPRINKLER SHOP DETAILS SHOWING PIPING LOCATIONS AND HEAD LAYOUT SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- 5. THE REQUIRED FIRE ALARM SHALL SOUND AN AUDIBLE AND VISUAL ALARM SIGNAL THROUGHOUT THE FACILITY INCLUDING COMMON USE ROOMS OR SPACES, RESTROOMS, LOBBIES,

CORRIDORS AND CONFERENCE ROOMS. FEATURES OF SIGNALS SHALL COMPLY WITH GEORGIA ACCESSIBILITY CODE RULE 120-3-20-39, NFPA 12, 2018 EDITION AND NFPA 101, SECTION 9.6.

- 1. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT FROM THE CITY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION. ANY FIRE ALARM PLANS INCLUDED IN THIS SET OF PLANS ARE FOR REFERENCE ONLY. NOT FOR PERMIT. FIRE ALARM PLANS AND SPECIFICATIONS SHALL BE SUBMITTED SEPARATELY FOR REVIEW.
- 2. FIRE ALARM PLANS AND SPECIFICATIONS SHALL COMPLY WITH PROVISIONS OF NFPA 72, 2018 EDITION AND SHALL BE SUBMITTED SEPARATELY FOR REVIEW.

SEISMIC RESTRAINTS:
1. ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL BUILDING COMPONENTS SHALL BE INSTALLED AND ATTACHED TO THE BUILDING TO RESIST THE SEISMIC DESIGN FORCES SPECIFIED PER ASCE/SEI 7-10 SECTION 13.2 UNLESS EXEMPTED AS LISTED IN ASCE/SEI 7-10 SECTION 13.1.4.

DIVISION 16 - ELECTRICAL
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

BRAVO BLDG SET

04-21-2025

phase one, for construction



Beta Design Group, Inc.
Architects

2118 Rosser Place Stone Mountain, GA. 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com



SUNBELT BUILDERS

10641 HWY 6 COVINGTON, LA 70014 1.770.788.0177 788.048

Client: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue	Date	Initial	Drawg.	Revision	Description

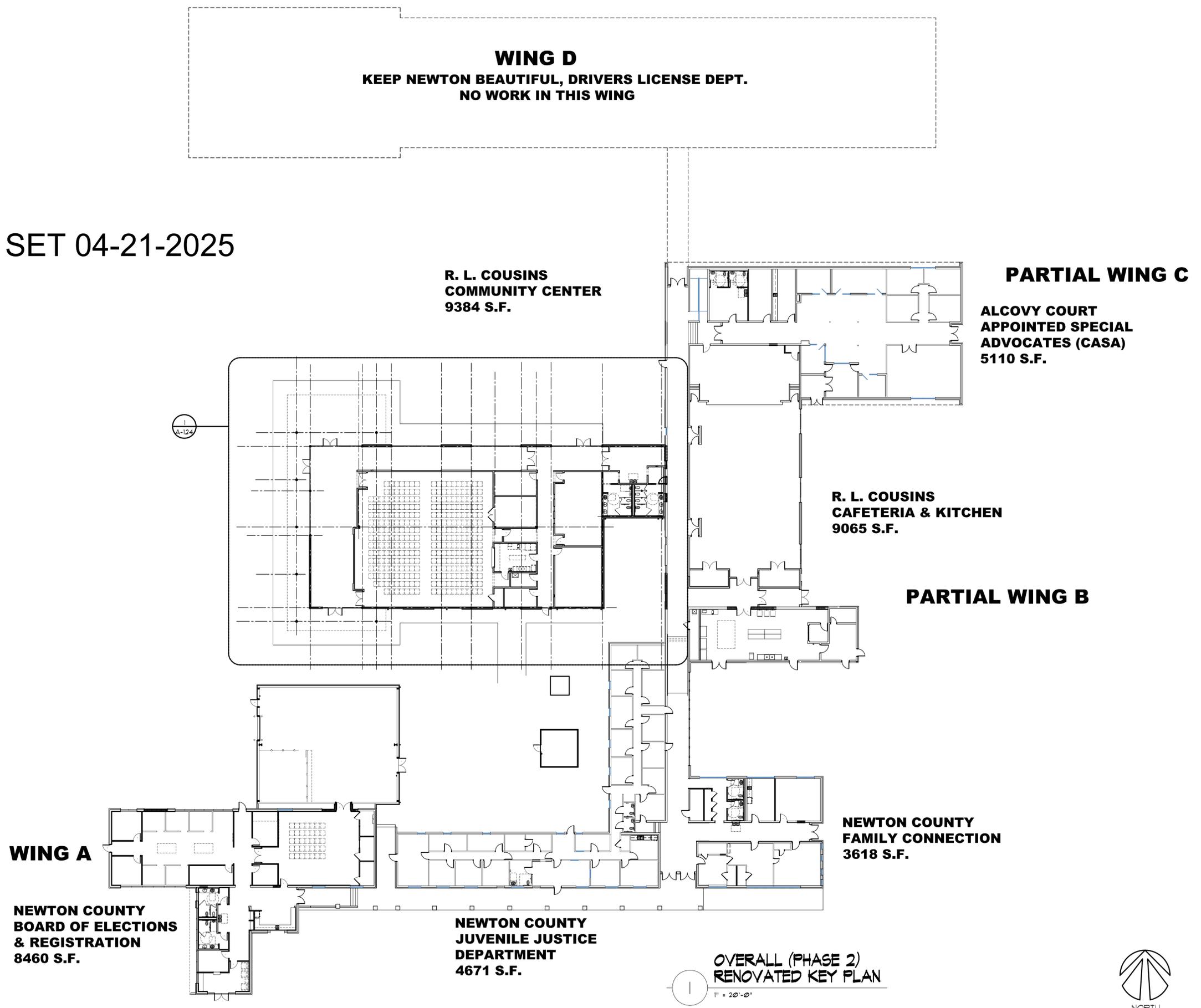
Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-0.4

Sheet Title:
GEN. NOTES & SPECS.

Sheet No.:
A-0.4

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

BRAVO BLDG SET 04-21-2025



Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

SUNBELT
 BUILDERS
 10841 HWY 6 COVINGTON, LA 70421
 Client:

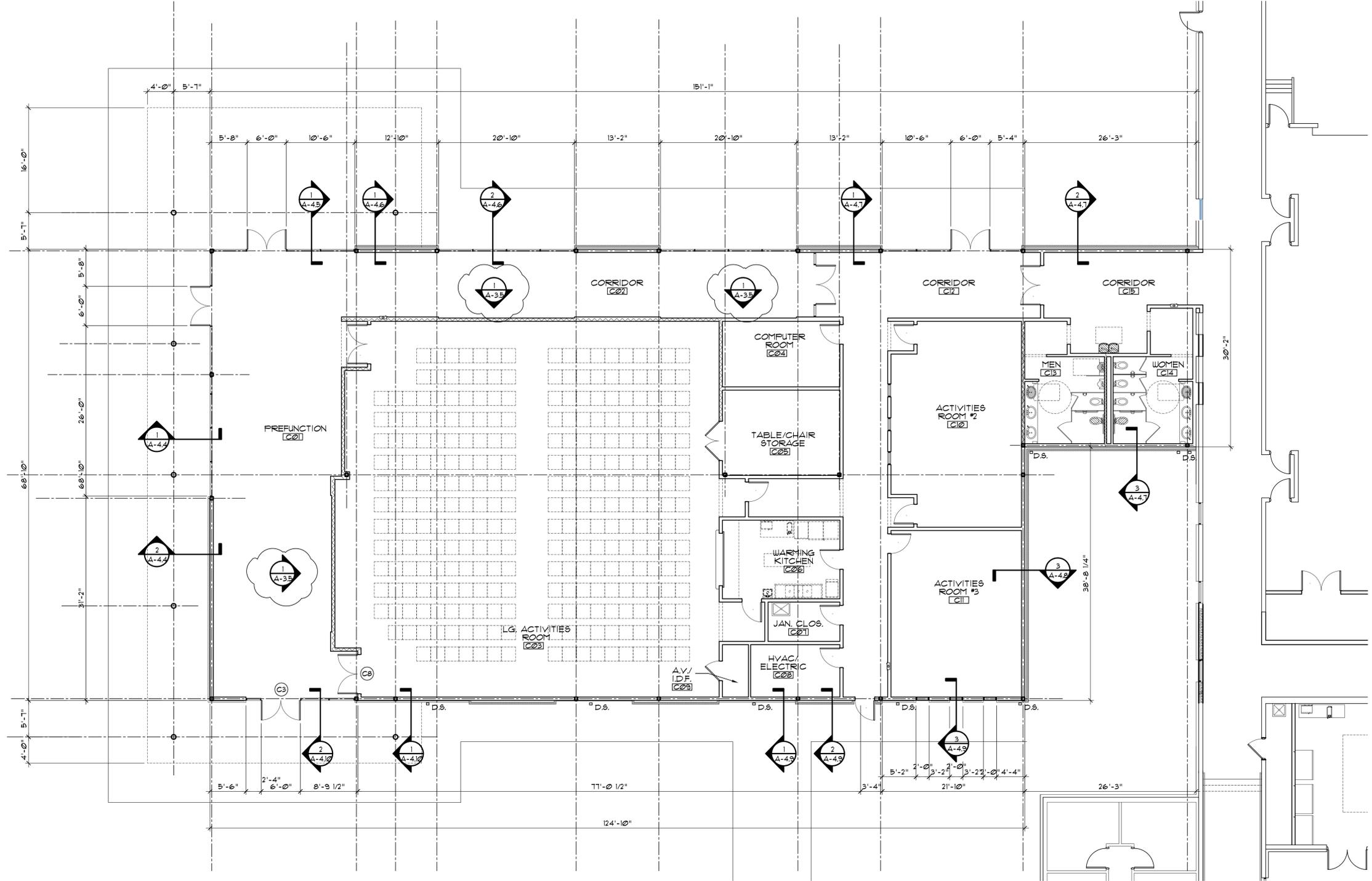
Project:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-1.2

phase two, for construction

Sheet Title:
**OVERALL RENOV.
 KEY PLAN**
 Sheet No.:
A-1.2



BRAVO BLDG SET 04-21-2025



ENLARGED FLOOR PLAN
 1/8" = 1'-0"
 SEE SHEET A-1.2.5 FOR INTERIOR CONSTRUCTION DETAILS

phase two, for construction



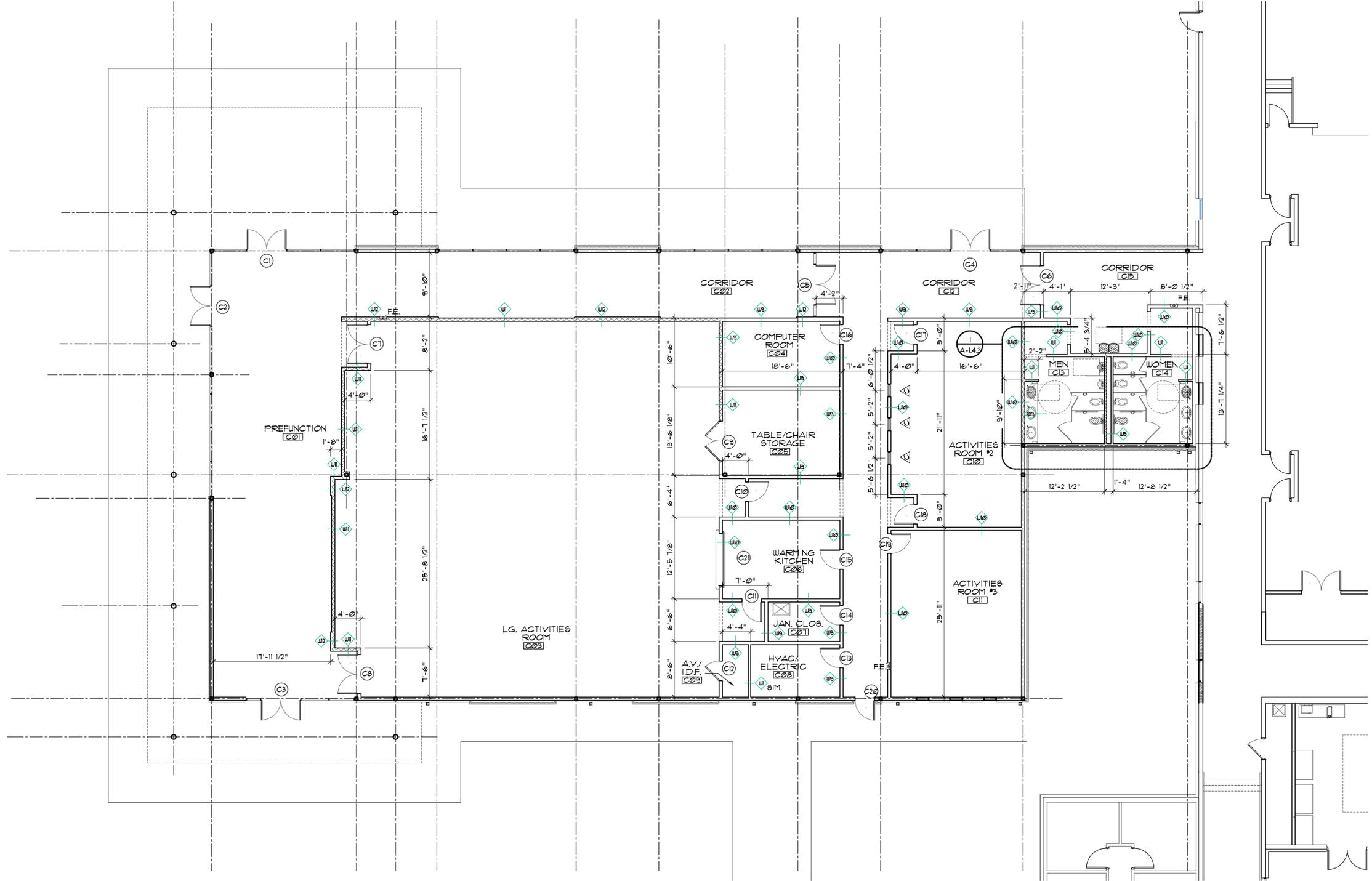
Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

SUNBELT
 BUILDERS
 10041 HWY 6 COVINGTON, LA 70014 1.770.880.1770 88 0 1 770 88 048

Client:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Project No.:	2023012
Drwg. Date:	06/28/24
Drwg. Revision:	07/11/24
Drawn By:	B.D.G.
Checked By:	E.M.S.
File Name:	2023012A-1.2.4
Sheet Title:	ENLARGED FLOOR PLAN
Sheet No.:	A-1.2.4

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.



BRAVO BLDG SET 04-21-2025

INTERIOR FLOOR PLAN
1/8" = 1'-0"



phase two, for construction

© 2024 BETA DESIGN GROUP, INC. This drawing may be utilized only for the purpose of consulting or leading the work shown herein at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Project: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Client: **SUNBELT BUILDERS™**
 10841 HWY 8 COVINGTON, LA 70014 1.770.988.0177 770.988.0448

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012A-1.2.5

Sheet Title:
INTERIOR FLOOR PLAN

Sheet No.:
A-1.2.5

Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770.491.9250
 Email: mikes@betadesigngroup.com

STATE OF GEORGIA
 E. MICHAEL SHIPLEY
 06/25/2024
 REGISTERED PROFESSIONAL ARCHITECT



CEILING LEGEND	
MATERIALS	
1	2'X2' ACOUSTICAL CEILING TILE, SEE SPECS.
2	2'X2' VINYL CLAD CEILING PANELS
3	EXPOSED (EXISTING) CEILING
4	EXPOSED STRUCTURE, NO CEILING
5	GYPSON BOARD SOFFIT
6	GYPSON BOARD CLOUD STRUCTURE, COMPASSO EDGE
7	GYPSON BOARD, PAINTED
SYMBOLS	
	2X4 FLUORESCENT LIGHT FIXTURE
	2X2 FLUORESCENT LIGHT FIXTURE
	8' FLUORESCENT STRIP LIGHT
	1X8 FLUORESCENT LIGHT
	RECESSED INCANDESCENT LIGHT
	SURFACE MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	CEILING MATERIAL
CEILING NOTES	
1. SEE ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION. 2. SEE MECHANICAL DRAWINGS FOR HYAC INFORMATION. 3. SEE SPRINKLER DRAWINGS FOR SPRINKLER INFORMATION. 4. SEE FINISH SCHEDULE FOR CEILING HEIGHTS. 5. CEILING HEIGHTS, IF PROVIDED, ARE TO THE CEILING MATERIAL FINISH, AFF.	

COMMUNITY CENTER
REFLECTED CEILING PLAN
 1/8" = 1'-0"

BRAVO BLDG SET 04-21-2025

phase one, for construction

Beta Design Group, Inc.
 Architects
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-1.3.4

Issue Date: Initial Drwg. Revision Description:

Sheet Title:
REFL. CLNG. PLAN

Sheet No.:
A-1.3.4

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or leading the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.



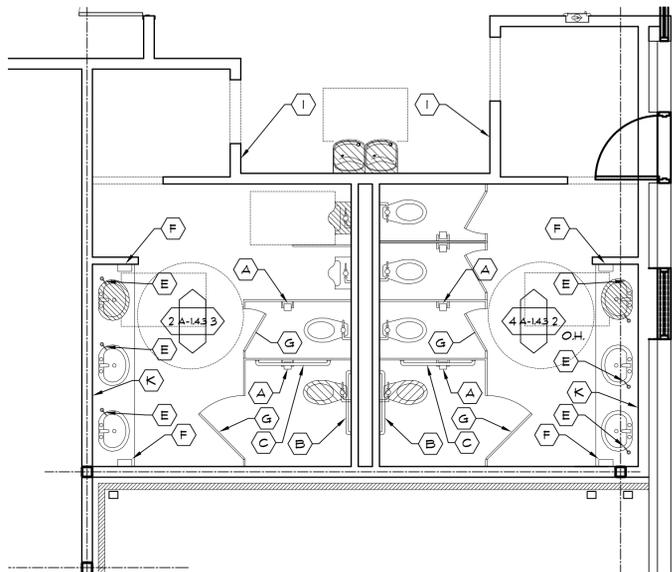
Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

SUNBELT
 BUILDERS™
 10841 HWY 6 COVINGTON, LA 70014 1.770.788.0177 788.048

Client:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

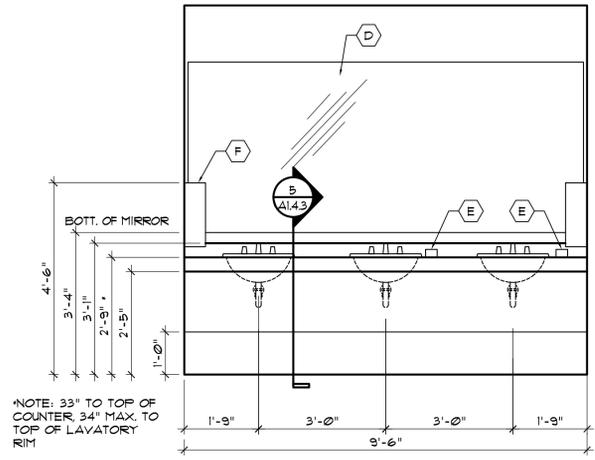
Project:
 Issue Date: Initial/Drawg. Revision Description:
 Project No.: 2023012
 Drawg. Date: 06/28/24
 Drawg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012A-1.4.3

Sheet Title:
ENLARGED TOILET PLANS
 Sheet No.:
A-1.4.3

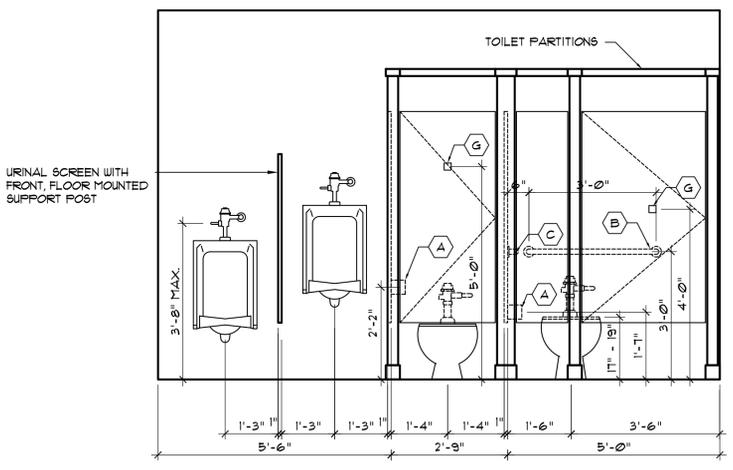


1 ENLARGED TOILET PLAN
 1/8" = 1'-0"

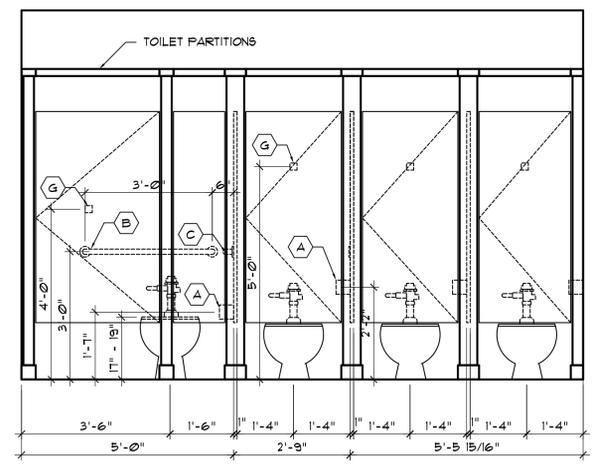
MARK	DESCRIPTION	MODEL NO.
(A)	TOILET PAPER HOLDER, DBL.	ASI #30030
(B)	36" GRAB BAR, 1 1/2" DIA.	ASI 3100 SERIES
(C)	42" GRAB BAR, 1 1/2" DIA.	ASI 3100 SERIES
(D)	MIRROR, S.S. CHANNEL FRAME, 18 X 36	ASI 0620-1830
(E)	SOAP DISPENSER, COUNTER MOUNT	ASI #0332-D
(F)	PAPER TOWEL DISPENSER	ASI #0210
(G)	COAT HOOK	ASI #0714
(H)	HANDICAP SIGN, UNISEX	
(I)	HANDICAP SIGN, PER GENDER	
(J)	SOAP DISPENSER, WALL MOUNT	ASI #0341
(K)	MIRROR, FULL LENGTH OF VANITY	-



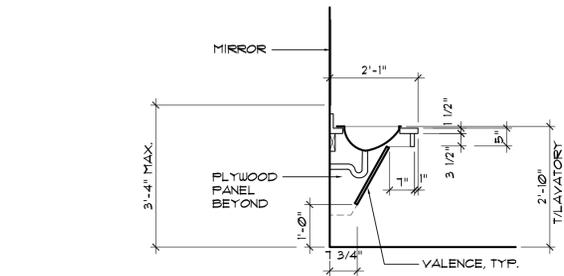
2 TOILET ELEVATION
 1/2" = 1'-0" 10810aac



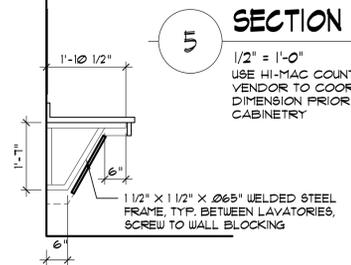
3 TOILET ELEVATION
 1/2" = 1'-0" 10810aac



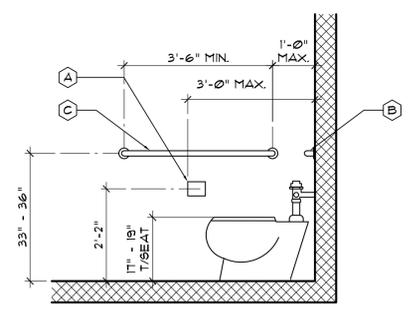
4 TOILET ELEVATION
 1/2" = 1'-0" 10810aac



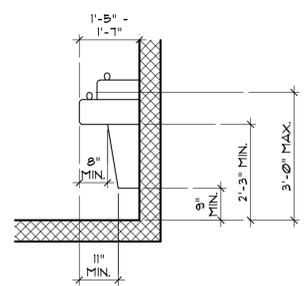
5 SECTION
 1/2" = 1'-0" 10810aac



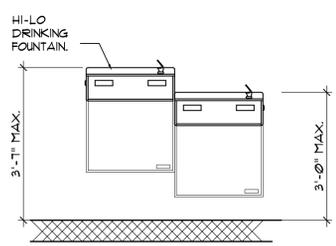
5a SECTION
 1/2" = 1'-0" 10810aac



6 H.C. WATER CLOSET
 1/2" = 1'-0" 10810aac



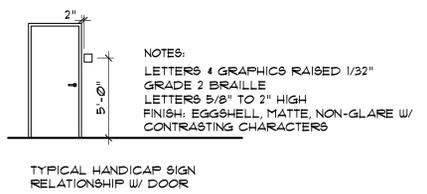
7 E.W.C. CLEARANCES
 1/2" = 1'-0" 15412aac



8 E.W.C. ELEVATION
 1/2" = 1'-0" 15412aac



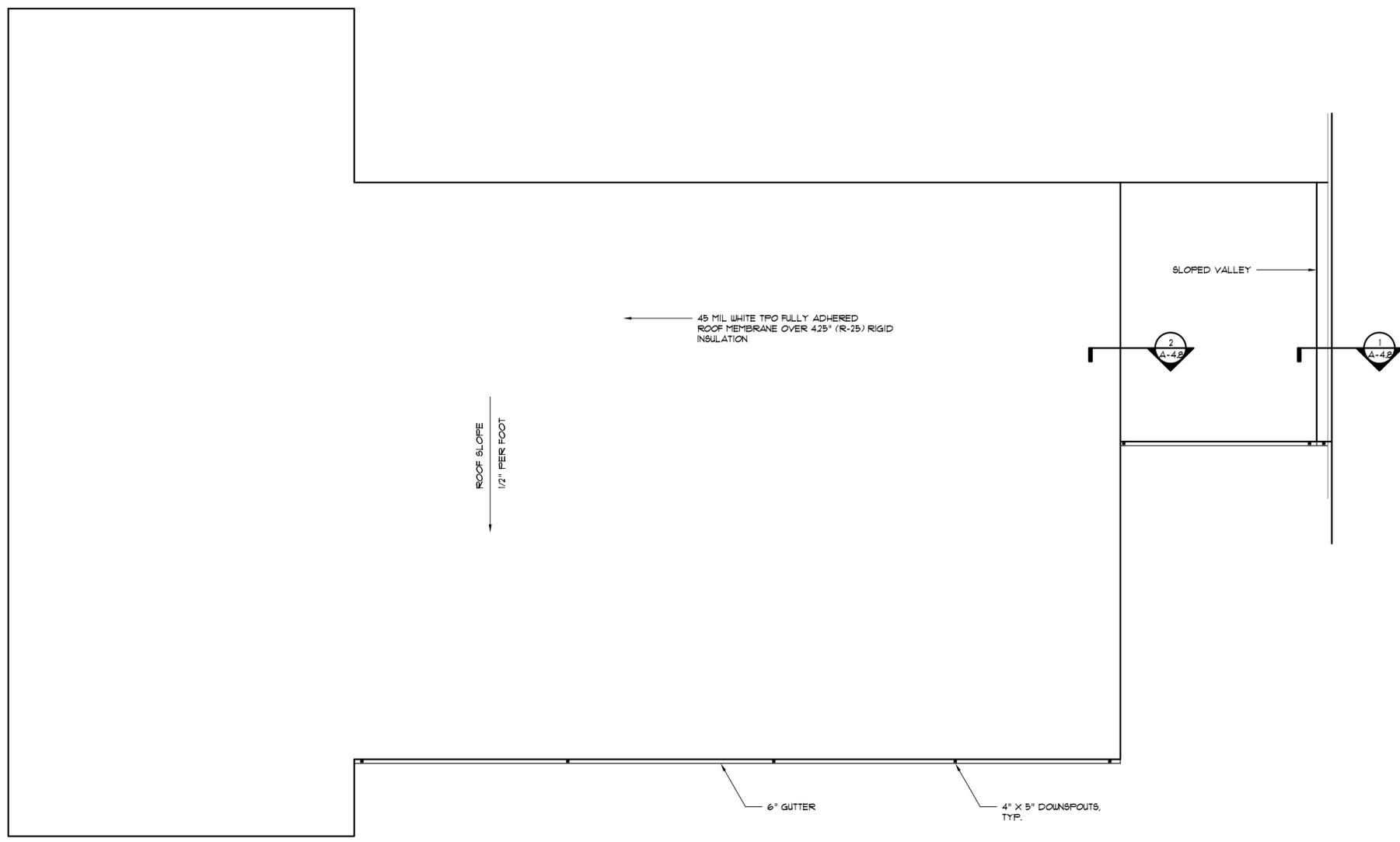
9 A.D.A. ACCESSIBLE TOILET SIGN DETAIL
 1/2" = 1'-0" 10440aac



TYPICAL HANDICAP SIGN RELATIONSHIP W/ DOOR

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be used only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.



BRAVO BLDG SET 04-21-2025

ROOF PLAN
1/8" = 1'-0"



phase two, for construction

© 2024 BETA DESIGN GROUP, INC. 2024 This drawing may be utilized only for the purpose of consulting or leading the work shown herein at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Issue	Date	Initial	Drwg.	Revision	Description

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012A-15

Sheet Title:
ROOF PLAN

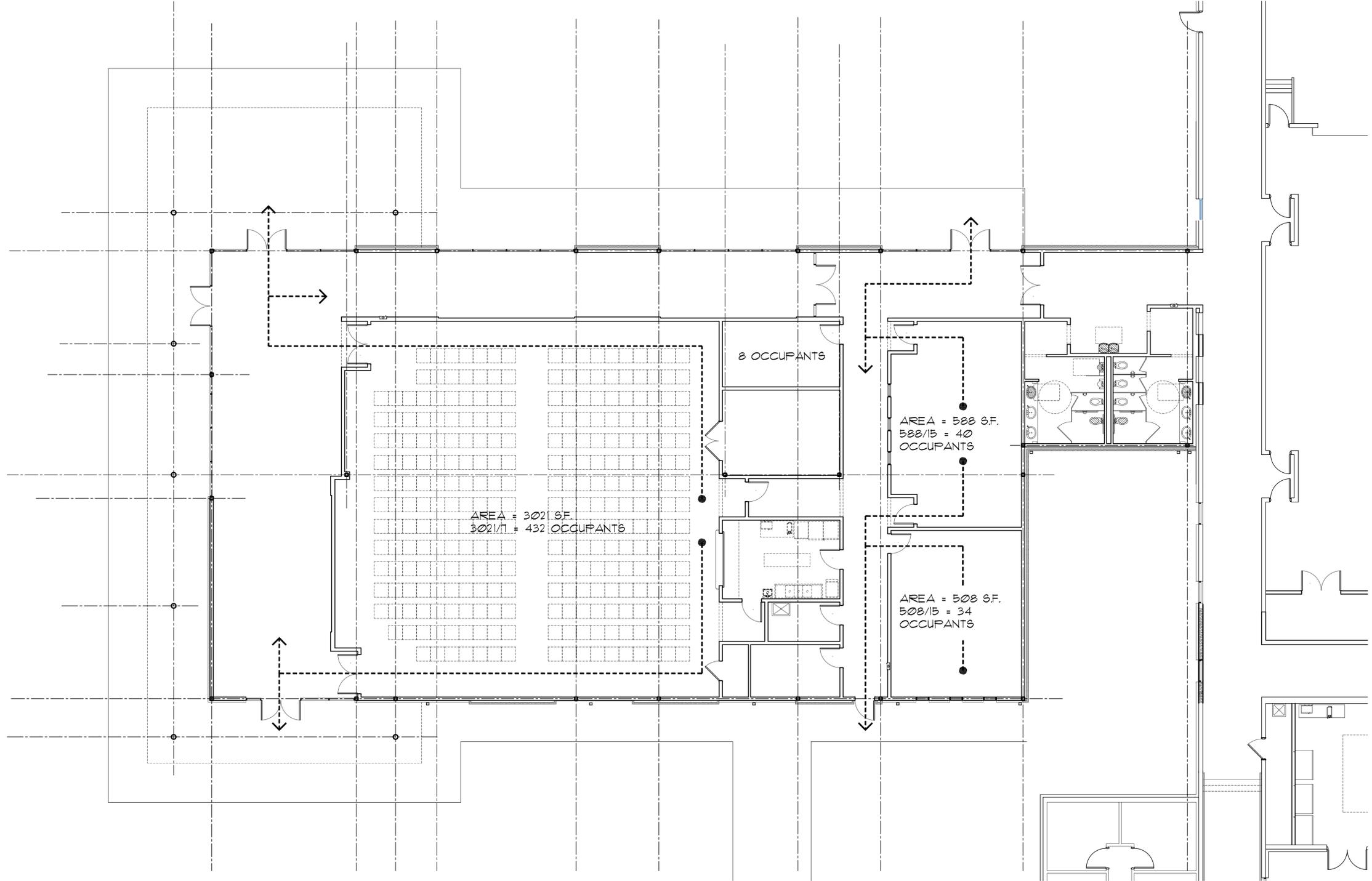
Sheet No.:
A-1.5

Client:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Client:
SUNBELT
 BUILDERS™
 10841 HWY 6 COVINGTON, GA 0014 1.770.788.0177 770.986.048

Client:
Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770.491.9250
 Email: mikes@betadesigngroup.com

STATE OF GEORGIA
 E. MICHAEL SHIPLEY
 06/28/24
 LICENSED PROFESSIONAL ARCHITECT
 REGISTERED



BRAVO BLDG SET 04-21-2025

LIFE SAFETY PLAN
1/8" = 1'-0"



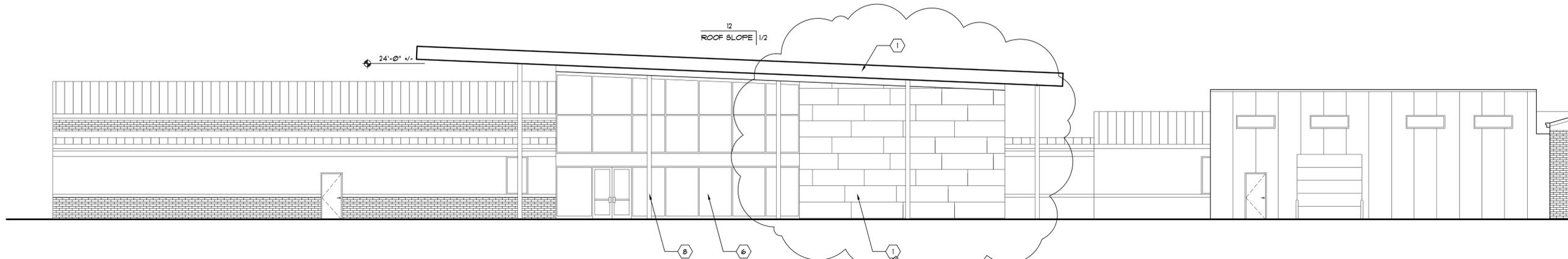
phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

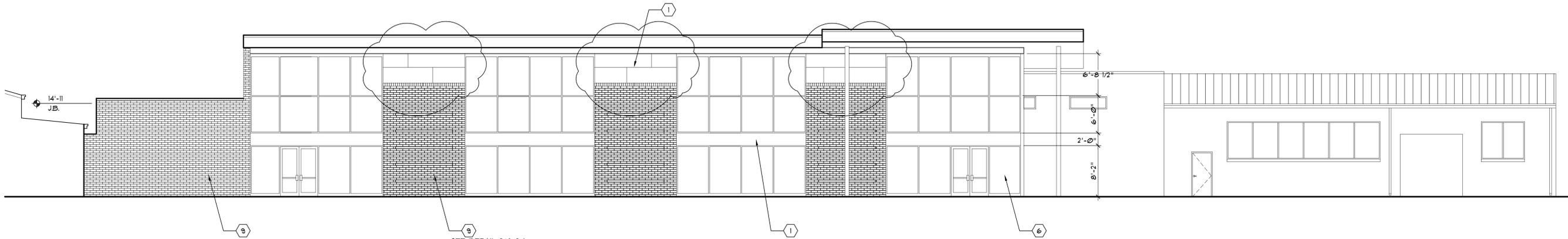
<p>Project: R. L. COUSINS COMMUNITY CENTER NEWTON CO. BOC RFP #24-04 8134 GEIGER STREET, N.W. COVINGTON, GEORGIA</p>	<p>Client: SUNBELT BUILDERS™ 10841 HWY 8 COVINGTON, LA 0014 1.770.988.01770.988.048</p>
<p>Issue Date: 08/12/24 Initial: E.M.S. Revision Description: 1. NEW SHEET ADDED</p>	<p>Project No.: 2023012 Drwg. Date: 08/12/24 Drwg. Revision: Drawn By: B.D.G. Checked By: E.M.S. File Name: 2023012A-1.5.2</p>
<p>Sheet Title: LIFE SAFETY PLAN</p>	
<p>Sheet No.: A-1.5.2</p>	

Beta Design Group, Inc.
Architecture
2118 Rosser Place Stone Mountain, GA. 30087
Phone: 770.491.9250
Email: mikes@betadesigngroup.com

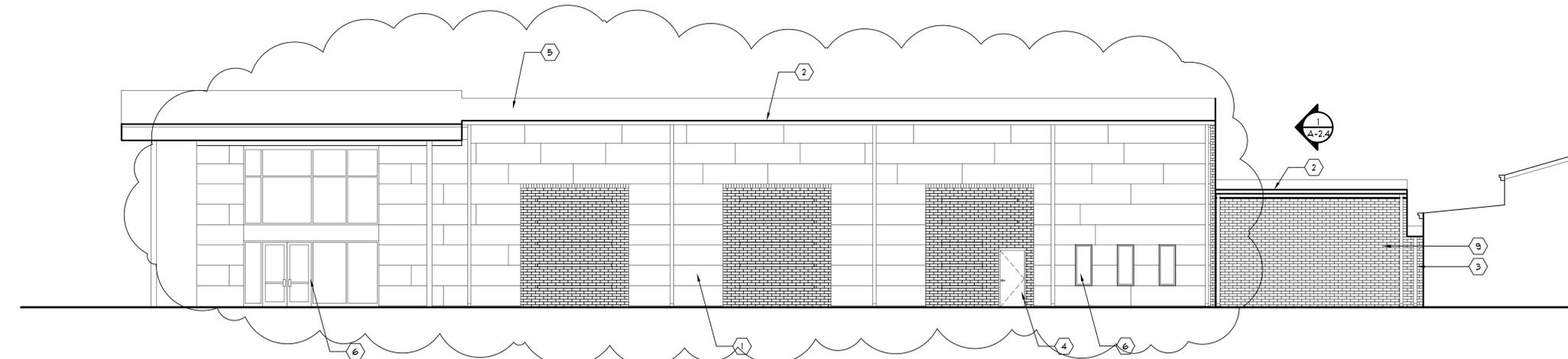
STATE OF GEORGIA
E. MICHAEL SHIPLEY
01/17/2024
RENEWED



1 FRONT (WEST) ELEVATION
1/8" = 1'-0"



2 LEFT SIDE (NORTH) ELEVATION
1/8" = 1'-0"



3 RIGHT SIDE (SOUTH) ELEVATION
1/8" = 1'-0"

ELEVATION MATERIAL LEGEND	
#	DESCRIPTION
1	ACM WALL PANELS, 30" WIDE, 3 COLORS, TO BE DETERMINED
2	24 GA. 6" PREFINISHED METAL GUTTER, COMPLIMENT WALL COLOR
3	24 GA. 4" X 5" PAINTED METAL DOWNSPOUT, COMPLIMENT WALL COLOR
4	PAINTED HM. DOOR & FRAME W/ 4" CONCRETE PAD
5	SLOPED TPO ROOF
6	INSULATED GLASS IN ALUM. FRAMES, SEE SPECS.
7	26 GA. PREFINISHED METAL COPING, COOR. W/ PANEL COLOR
8	PAINTED STEEL COLUMN
9	BRICK VENEER

BRAVO BLDG SET 04-21-2025



Beta Design Group, Inc.
Architecture
2118 Rosser Place Stone Mountain, GA, 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

SUNBELT
BUILDERS
10041 HWY 6 COVINGTON, LA 70451
0014 1 770 886 0177

Client:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Project:

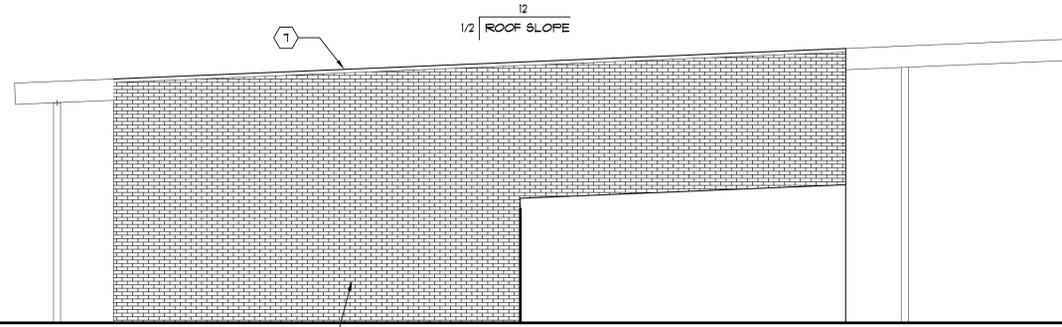
Issue Date:	07/11/24
Initial:	E.M.S. 1. DRWG. COORD. W/ CONTR.

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision: 07/11/24
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-2.2

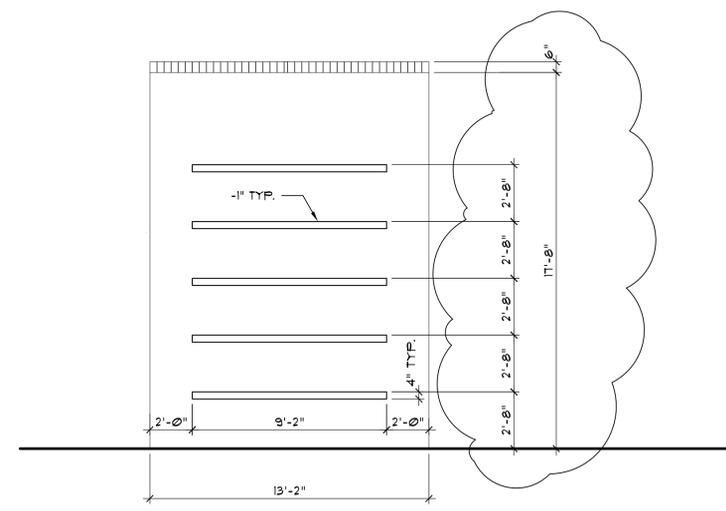
Sheet Title:
BUILDING ELEVATIONS
Sheet No.:
A-2.2

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.



1 REAR (EAST) ELEVATION
1/8" = 1'-0"



2 BRICK DETAIL
1/4" = 1'-0"

ELEVATION MATERIAL LEGEND	
#	DESCRIPTION
1	ACM WALL PANELS, 24" WIDE, 3 COLORS, TO BE DETERMINED
2	24 GA. 6" PREFINISHED METAL GUTTER, COMPLIMENT WALL COLOR
3	24 GA. 4" X 5" PAINTED METAL DOWNSPOUT, COMPLIMENT WALL COLOR
4	PAINTED HM. DOOR & FRAME W/ 4" CONCRETE PAD
5	SLOPED TPO ROOF
6	INSULATED GLASS IN ALUM. FRAMES, SEE SPECS.
7	26 GA. PREFINISHED METAL COPING, COOR. W/ PANEL COLOR
8	PAINTED STEEL COLUMN
9	BRICK VENEER

BRAVO BLDG SET 04-21-2025

phase two, for construction



Beta Design Group, Inc.
Architecture
2118 Rosser Place Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com



Client:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue	Date	Initial	Drawg.	Revision	Description
1	07/11/24	E.M.S.	1.	DRWG. COORD. W/ CONTR.	

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision: 07/11/24
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-2.4

Sheet Title:
BUILDING ELEVATIONS

Sheet No.:
A-2.4

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

INTERIOR FINISH SCHEDULE

MARK	ROOM NAME	WALLS		CEILING		BASE		FLOOR	REMARKS	
		MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	MATERIAL			FINISH
	COMMUNITY CENTER									
C01	PREFUNCTION	GLASS/GYPSUM BOARD	PT.	CLOUDS/EXPOSED	PT.	VARIES.	4" RUBBER	FF.	POLISHED CONCRETE	1
C02	CORRIDOR	EXISTING GYPSUM BOARD	PT.	CLOUDS/EXPOSED.	PT.	VARIES.	4" RUBBER	FF.	POLISHED CONCRETE	1
C03	LARGE ACTIVITIES ROOM	GYPSUM BOARD	PT.	CLOUDS/EXPOSED	PT.	VARIES.	4" RUBBER	FF.	L.V.T.	1
C04	COMPUTER ROOM	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	9'-0"	4" RUBBER	FF.	L.V.T.	
C05	TABLES & CHAIR STORAGE	GYPSUM BOARD	PT.	EXP. STRUCTURE	-	VARIES	4" RUBBER	FF.	CONCRETE	
C06	WARMING KITCHEN	GYPSUM BOARD/FRP.	FF.	ACOUSTICAL	FF.	10'-0"	Q.T.	FF.	Q.T.	
C07	JANITOR CLOSET	GYPSUM BOARD	UNPTD.	EXP. STRUCTURE	-	VARIES	-	-	CONCRETE	
C08	HVAC/ELECTRIC ROOM	GYPSUM BOARD	UNPTD.	EXP. STRUCTURE	-	VARIES	-	-	CONCRETE	
C09	AV/IDF.	GYPSUM BOARD	UNPTD.	EXP. STRUCTURE	-	VARIES	-	-	CONCRETE	
C10	ACTIVITIES ROOM #2	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	12'-0"	4" RUBBER	FF.	L.V.T.	
C11	ACTIVITIES ROOM #3	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	12'-0"	4" RUBBER	FF.	L.V.T.	
C12	CORRIDOR	GLASS/GYPSUM BOARD	PT.	ACOUSTICAL/EXPOSED	FF.	10'-0"/VARIES	4" RUBBER	FF.	L.V.T.	1
C13	MEN'S TOILET	GYPSUM BOARD/C.T. FULL HT.	C.T.	ACOUSTICAL	FF.	9'-0"	C.T. COVE BASE	FF.	C.T.	2
C14	WOMEN'S TOILET	GYPSUM BOARD/C.T. FULL HT.	C.T.	ACOUSTICAL	FF.	9'-0"	C.T. COVE BASE	FF.	C.T.	2
C15	CORRIDOR	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	10'-0"	4" RUBBER	FF.	L.V.T.	

F:\ACAD Library\ACAD Legends Notes and Schedules\Master Legend.dwg

ABBREVIATIONS

CONC. = CONCRETE
 ES = EXPOSED STRUCTURE
 FT. = PAINT
 FF. = FACTORY FINISH
 FRP. = FIBERGLASS REINFORCED PLASTIC
 L.V.T. = LUXURY VINYL TILE
 C.T. = CERAMIC TILE
 Q.T. = QUARRY TILE
 V.C.T. = VINYL COMPOSITION TILE
 G.T. = QUARRY TILE

GENERAL FINISH NOTES:

- A ADVISE CONSULTANT OF ANY CONFLICT W/ FINISHES PRIOR TO INSTALLATION.
- B ALL FINISH MATERIALS ARE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
- C ALL EXPOSED DUCTWORK, PIPING AND CONDUIT TO REMAIN UNPAINTED.
- D COORDINATE & CONFIRM COMPATIBILITY OF ALL FINISHES, (INTERIOR & EXTERIOR) MATERIALS, SEALANTS, SEALERS, PAINTS, CAULK, ADHESIVES, ETC., WITH SUBSTRATES, ADJACENT MATERIALS, ETC..
- E ALL FINISHES IN EXIT PASSAGEWAYS SHALL BE CLASS A OR B. ALL OTHERS SHALL BE CLASS C MINIMUM.

REMARKS:

1. PAINT (DRY FOG) EXPOSED CEILING, BLACK
2. 12" X 24" TILE, WALLS AND FLOOR, USE SCHLUTER COVE TRIM AT OUTSIDE CORNERS

PAINTING NOTES:

- A HOLLOW METAL DOORS & FRAMES RECEIVE (2) COATS OF ENAMEL.
- B OVERHEAD DOOR GUARD POST RECEIVE (2) COATS OF ENAMEL.
- C ALL EXPOSED STEEL SHALL RECEIVE (1) SHOP COAT OF RUST PREVENTATIVE PRIMER. TOUCH UP STEEL WITH MATCHING PRIMER AFTER STEEL ERECTION IS COMPLETE.

INTERIOR WINDOW SCHEDULE

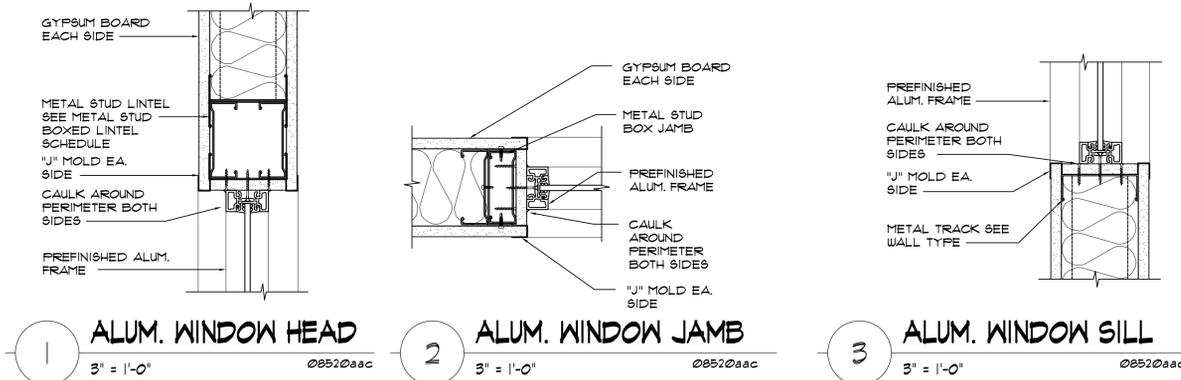
MARK	SIZE (W X H)	FRAME MATERIAL	FINISH	GLASS THICKNESS	FINISH	SILL HT. AFF.	HEAD HT. AFF.	REMARKS
△	2'-0" X 5'-0"	ALUM.	P. F.	1/4"	CLEAR	2'-0"	1'-0"	SEE 1, 2, 3/A-3.1.1

F:\ACAD Library\ACAD Legends Notes and Schedules\Master Legend.dwg

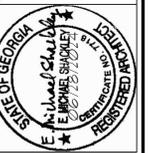
REMARKS:

GENERAL WINDOW NOTES:

1. ADVISE CONSULTANT OF ANY CONFLICTS PRIOR TO INSTALLATION.
2. ALL MATERIALS ARE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
3. PROVIDE TEMPERED GLASS @ STOREFRONT DOORS & WINDOWS WITHIN 2'-0" OF A DOOR.
4. SEE REMAINDER OF DRAWINGS FOR DETAILS RELATED TO EXTERIOR STOREFRONT AND/OR WINDOWS.



phase two, for construction



Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

SUNBELT
 BUILDERS
 Client: 10841 HWY 6 COVINGTON, LA 0014 1 770 788 0 1 770 98 048

Project:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-3.1.1

Sheet Title:
ROOM FINISH SCHEDULE

Sheet No.:
A-3.1.1

BRAVO BLDG SET 04-21-2025

DOOR SCHEDULE

MARK	SIZE (W X H X T)	TYPE	DESCRIPTION	FINISH	WIDTH	FRAME		DETAIL	CLOSER?	LABEL	REMARKS	MARK
						MAT.	FINISH					
(C1)	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	PF.	4"	AL.	PF.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22	(C1)
(C2)	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	PF.	4"	AL.	PF.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22	(C2)
(C3)	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	PF.	4"	AL.	PF.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22, 25	(C3)
(C4)	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	PF.	4"	AL.	PF.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22	(C4)
(C5)	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	PF.	4"	AL.	PF.	-	Y, 2	-	4, 7, 12, 16, 17, 22	(C5)
(C6)	FR 3'-0" X 8'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANEL	PT.	8"	HM.	PT.	-	Y, 2	-	4, 12, 20, 22, 24	(C6)
(C7)	FR 3'-0" X 8'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANEL	PT.	8"	HM.	PT.	-	Y, 2	-	4, 12, 20, 22	(C7)
(C8)	FR 3'-0" X 8'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANEL	PT.	8"	HM.	PT.	-	Y, 2	-	4, 12, 20, 22	(C8)
(C9)	FR 3'-0" X 1'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	HM.	PT.	-	-	-	24	(C9)
(C10)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	Y	-	2, 4, 20	(C10)
(C11)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	-	-	2, 4, 18, 20	(C11)
(C12)	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	HM.	PT.	-	-	-	-	(C12)
(C13)	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	HM.	PT.	-	-	-	18, 24	(C13)
(C14)	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	HM.	PT.	-	-	-	18	(C14)
(C15)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	-	-	2, 4, 20	(C15)
(C16)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	-	-	2, 4, 18	(C16)
(C17)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	-	-	2, 4, 18	(C17)
(C18)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	-	-	2, 4, 18	(C18)
(C19)	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	HM.	PT.	-	-	-	2, 4, 18	(C19)
(C20)	3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	8 1/2"	HM.	PT.	-	Y	-	1, 5, 6, 7, 13, 14, 21, 22	(C20)
(C21)	4'-0" X 4'-0"	F	OVERHEAD COILING DOOR	FF.	-	-	-	-	-	-	8, 12	(C21)

ABBREVIATIONS

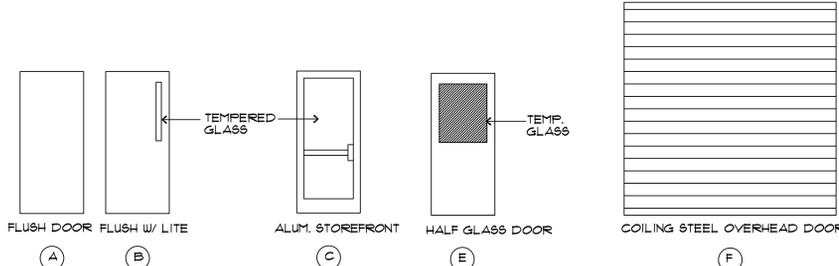
HM. = HOLLOW METAL (KNOCK-DOWN FRAME)
 PT. = PAINT
 ST. = (FIELD) STAIN
 AL. OR ALUM. = ALUMINUM
 PF. = PRE-FINISHED
 SCWD = SOLID CORE WOOD

REMARKS:

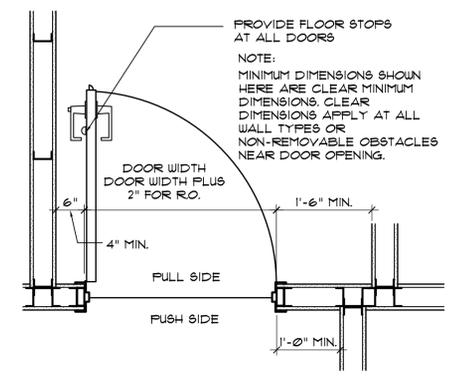
- | | | |
|--|----------------------------|---------------------------|
| 1. BALL BEARING HINGES, NON-REMOVABLE PINS | 9. ELECTRIC OPERATION | 17. PUSH/PULL HARDWARE |
| 2. (1) VIEW PANEL | 10. CHAIN HOIST | 18. WALL STOP |
| 3. TEMPERED GLASS W/ BRONZE TINT | 11. FUSIBLE LINK, EA. SIDE | 19. FLOOR STOP |
| 4. TEMPERED CLEAR GLASS | 12. UNINSULATED | 20. KICK PLATES |
| 5. THRESHOLD | 13. INSULATED | 21. SWEEP |
| 6. WEATHERSTRIPPING | 14. 4" HEAD | 22. PANIC HARDWARE |
| 7. LATCH GUARD | 15. PRIVACY LOCK | 23. SLIDE BOLT LOCK |
| 8. MANUAL OPERATION | 16. PIVOT HINGES | 24. UNDERCUT DOOR 3/4" |
| | | 25. HANDICAP POWER ASSIST |

GENERAL DOOR NOTES:

- A. HARDWARE SCHEDULE SHALL BE SUPPLIED BY THE VENDOR & APPROVED BY THE OWNER. VENDOR SHALL ALSO SUPPLY CUT SHEETS, MAINTENANCE AND ADJUSTMENT MANUAL FOR ALL HARDWARE SUPPLIED. VENDOR SHALL ALSO GIVE OWNER AN ANALYSIS OF THE KEYING OF THIS PROJECT.
- B. DOOR HARDWARE SHALL BE LEVER TYPE OR PUSH FULL TYPE.
- C. SEE GENERAL NOTES & SPECIFICATIONS FOR OTHER INFORMATION.
- D. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE FIN. FLR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2, IF HIGHER THAN 1/4" ABOVE FIN. FLR.
- E. JAMB WIDTHS AT METAL FRAMES ARE BASED ON 1/2" RETURNS, DOOR SUPPLIER MAY ADJUST TO NEXT PRACTICAL THROAT SIZE.
- F. U VALUES FOR OVERHEAD DOOR = 1/11, PERSONNEL DOORS = 51, GLASS DOORS = 104 (SH.G.F. = 65 MAX.).



(1) **DOOR ELEVATIONS**
N.T.S.



(2) **TYPICAL DOOR LAYOUT U.N.O.**
1 1/2" = 1'-0" 02050aaa



Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA. 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

SUNBELT
 BUILDERS™
 10841 HWY. 6 COVINGTON, LA 70014 1.770.788.0177 770.788.0408

Project:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

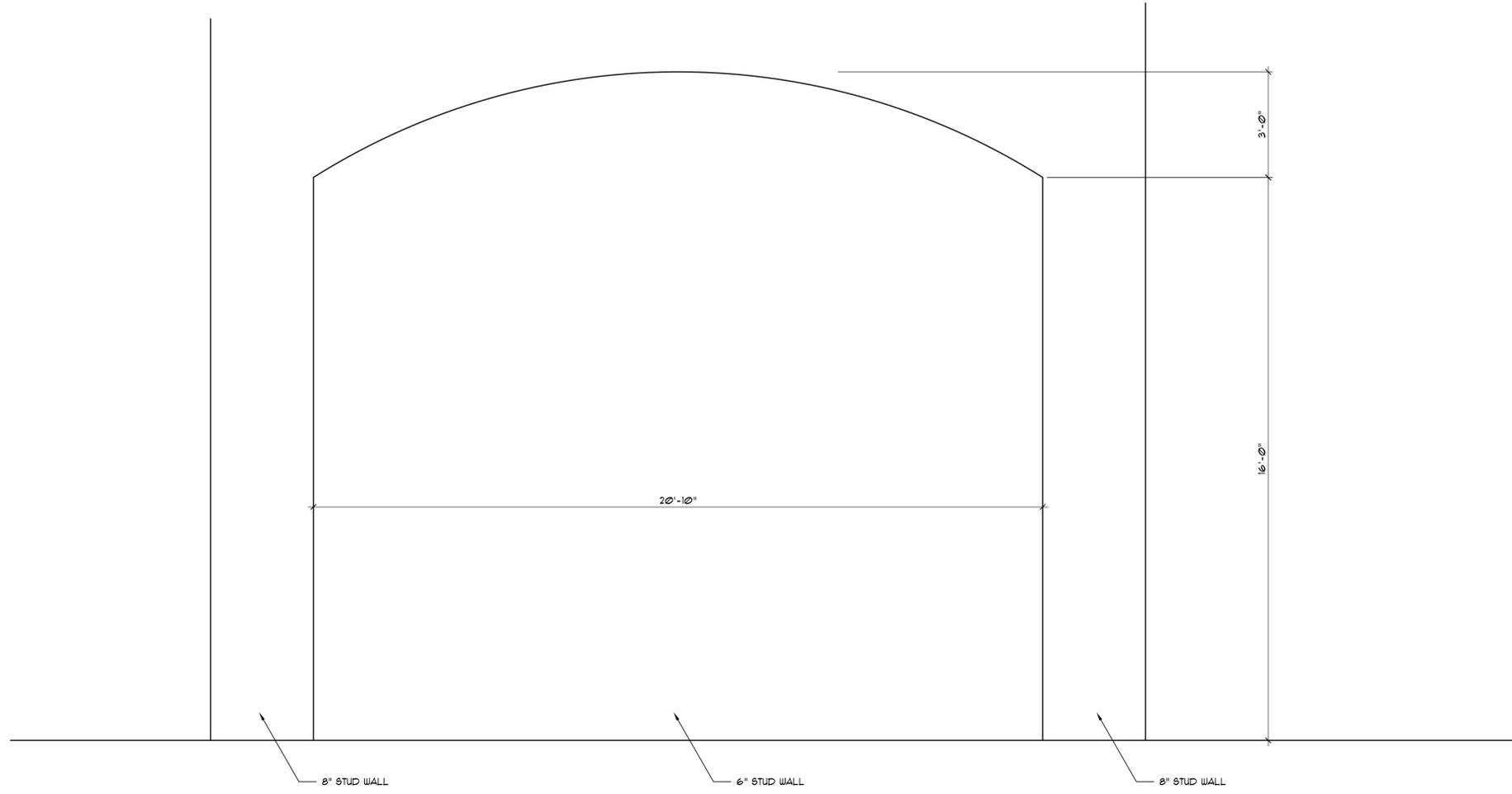
Issue Date:	Initial:	Drwg. Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ CONTR.

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision: 07/11/24
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-32.1

Sheet Title:
DOOR SCHED. & DETAILS

Sheet No.:
A-3.2.1

phase two, for construction



1
1/2" = 1'-0"
INTERIOR ELEVATION

BRAVO BLDG SET 04-21-2025

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of construction or building the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Issue	Date	Initial	Drawn	Revision	Description
07/11/24	E.M.S.	1	NEW SHEET	ADDED	

Project No.: 2023012
 Drwg. Date: 07/11/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-35

Sheet Title:
INTERIOR ELEVATIONS

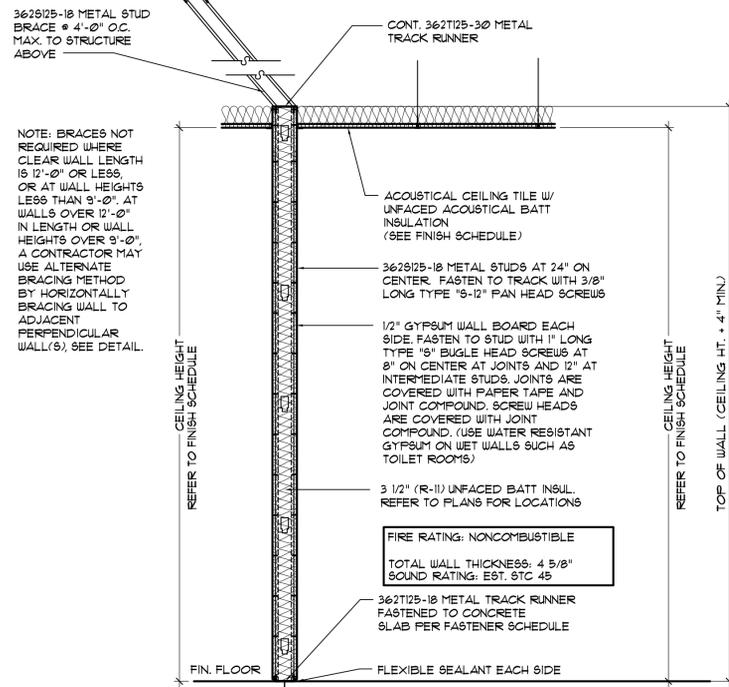
Sheet No.:
A-3.5

Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Client:
SUNBELT
CONSTRUCTION
 10641 HWY 6 COVINGTON, GA 30014 1.770.788.0177 770.986.048

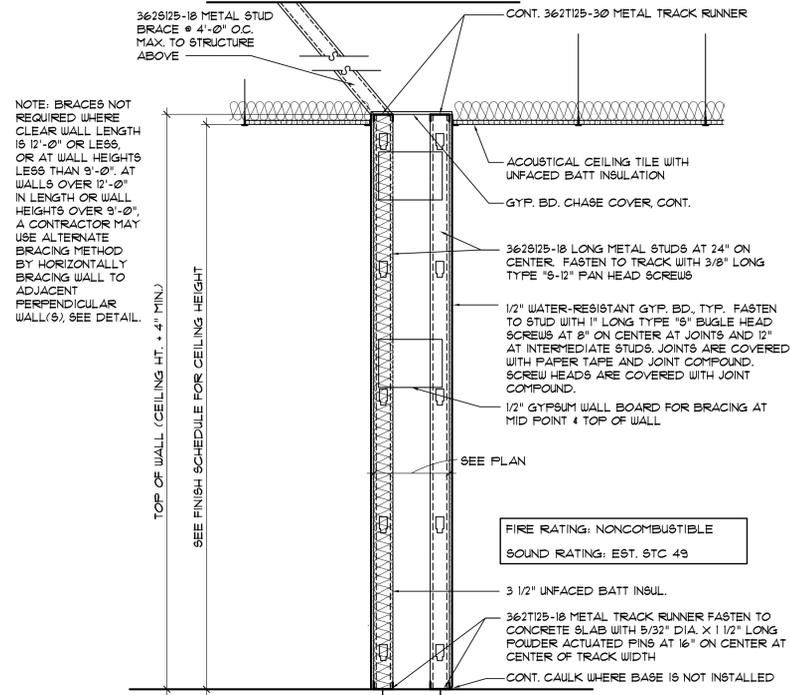
Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770.491.9250
 Email: mikes@betadesigngroup.com





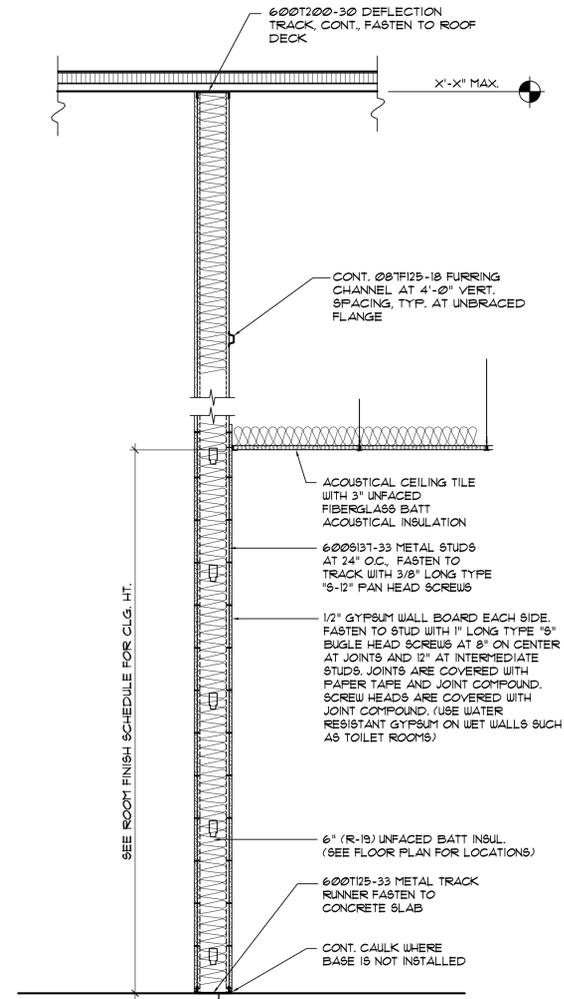
3 5/8" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W1
3/4" = 1'-0"
09250usa



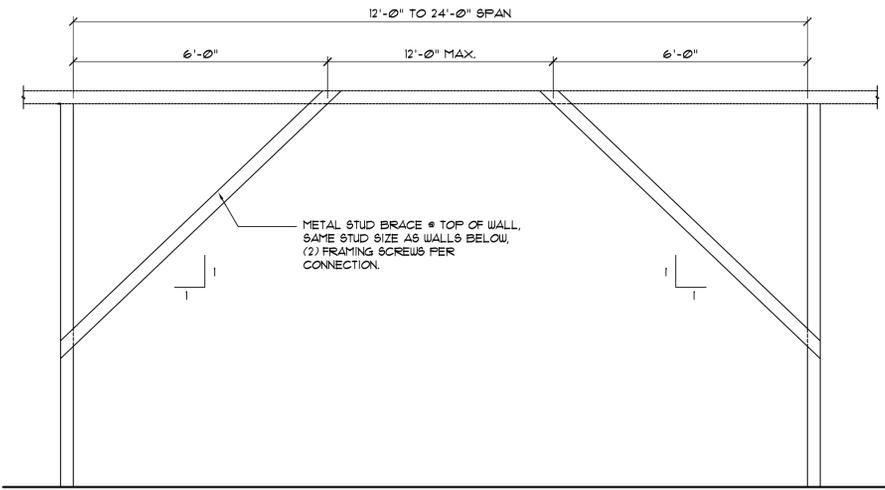
PLUMBING PARTITION

W5
3/4" = 1'-0"
09250usk



6" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W9
3/4" = 1'-0"
09250ns0



WALL BRACING DETAIL

W10
1/2" = 1'-0"
0910bra
NOTE: BRACING NOT REQUIRED FOR WALLS NOT OVER 9'-0" HIGH OR LESS THAN 12'-0" IN HORIZONTAL CLEAR SPAN. CORNER BRACING REQ'D FOR WALLS OVER 9'-0" HIGH SPANNING OVER 12'-0" TO 24'-0"

BRAVO BLDG SET 04-21-2025

phase two, for construction

© 2025 BETA DESIGN GROUP, INC. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Beta Design Group, Inc.
Architecture
2118 Rosser Place
Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

SUNBELT
BUILDERS™
10841 HWY 6 COVINGTON, LA 70014 1.770.986.0177

Client:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date	Initial	Drawg.	Revision	Description

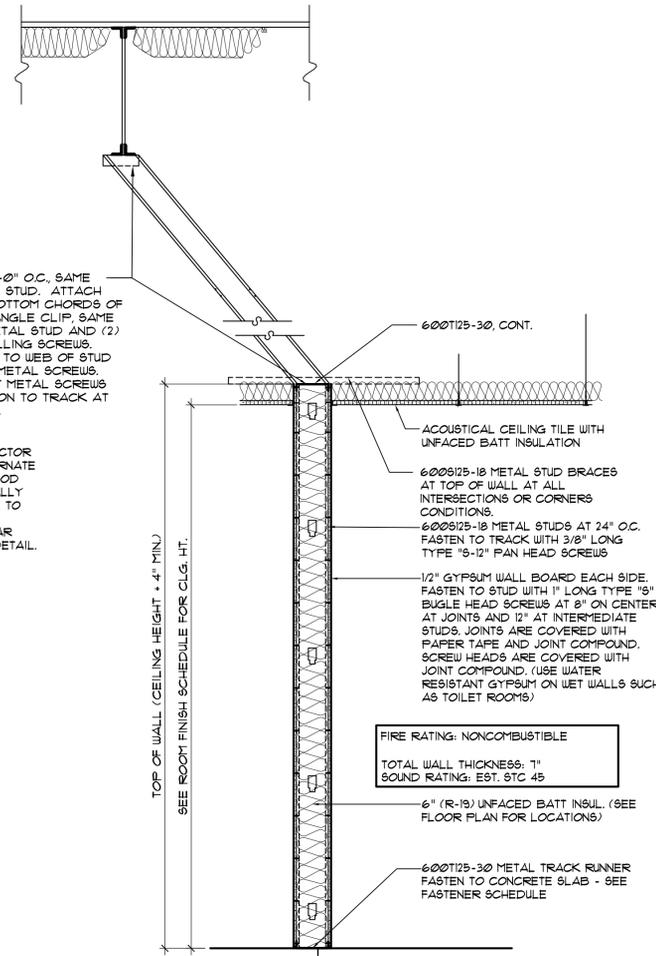
Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.1.4

Sheet Title:
WALL TYPE DETAILS

Sheet No.:
A-4.1.4

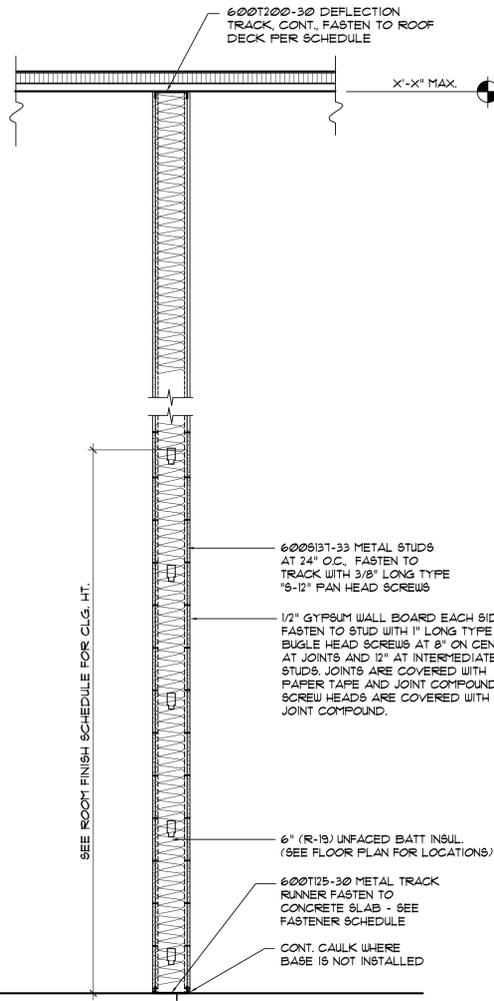
BRACE AT 4'-0" O.C., SAME SIZE AS WALL STUD. ATTACH BRACE TO BOTTOM CHORDS OF JOISTS WITH ANGLE CLIP, SAME GAUGE AS METAL STUD AND (2) #10 SELF-DRILLING SCREWS. ATTACH CLIP TO WEB OF STUD W/ (2) SHEET METAL SCREWS. USE (2) SHEET METAL SCREWS AT CONNECTION TO TRACK AT TOP OF WALL.

NOTE: CONTRACTOR MAY USE ALTERNATE BRACING METHOD BY HORIZONTALLY BRACING WALL TO ADJACENT PERPENDICULAR WALL(S). SEE DETAIL.



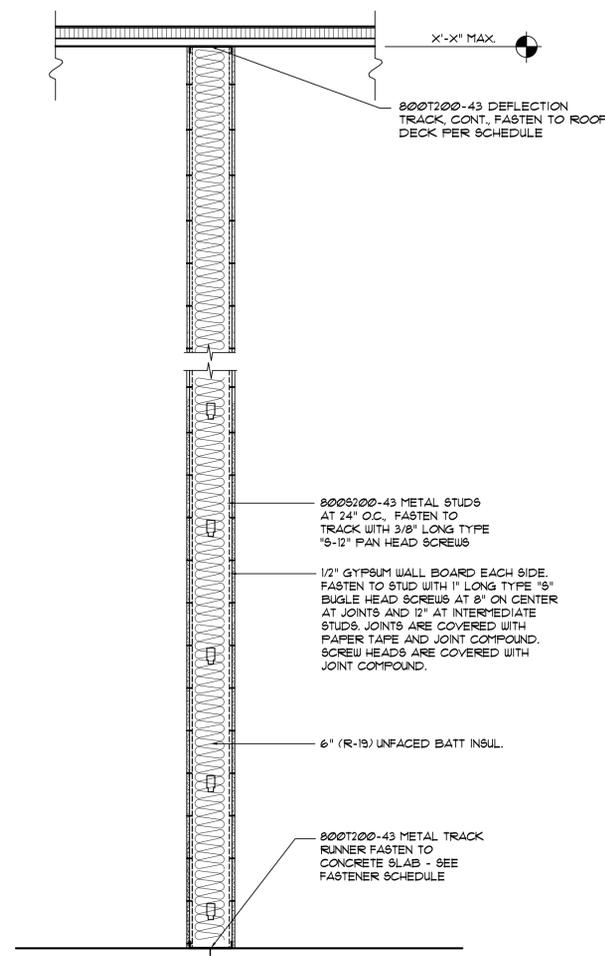
6" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W10 3/4" = 1'-0" 09250usc



6" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W11 3/4" = 1'-0" 09250nso

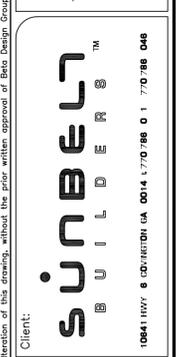


8" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W12 3/4" = 1'-0" 09250nso



Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com



Client:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue No.	Date	Initials	Revision Description

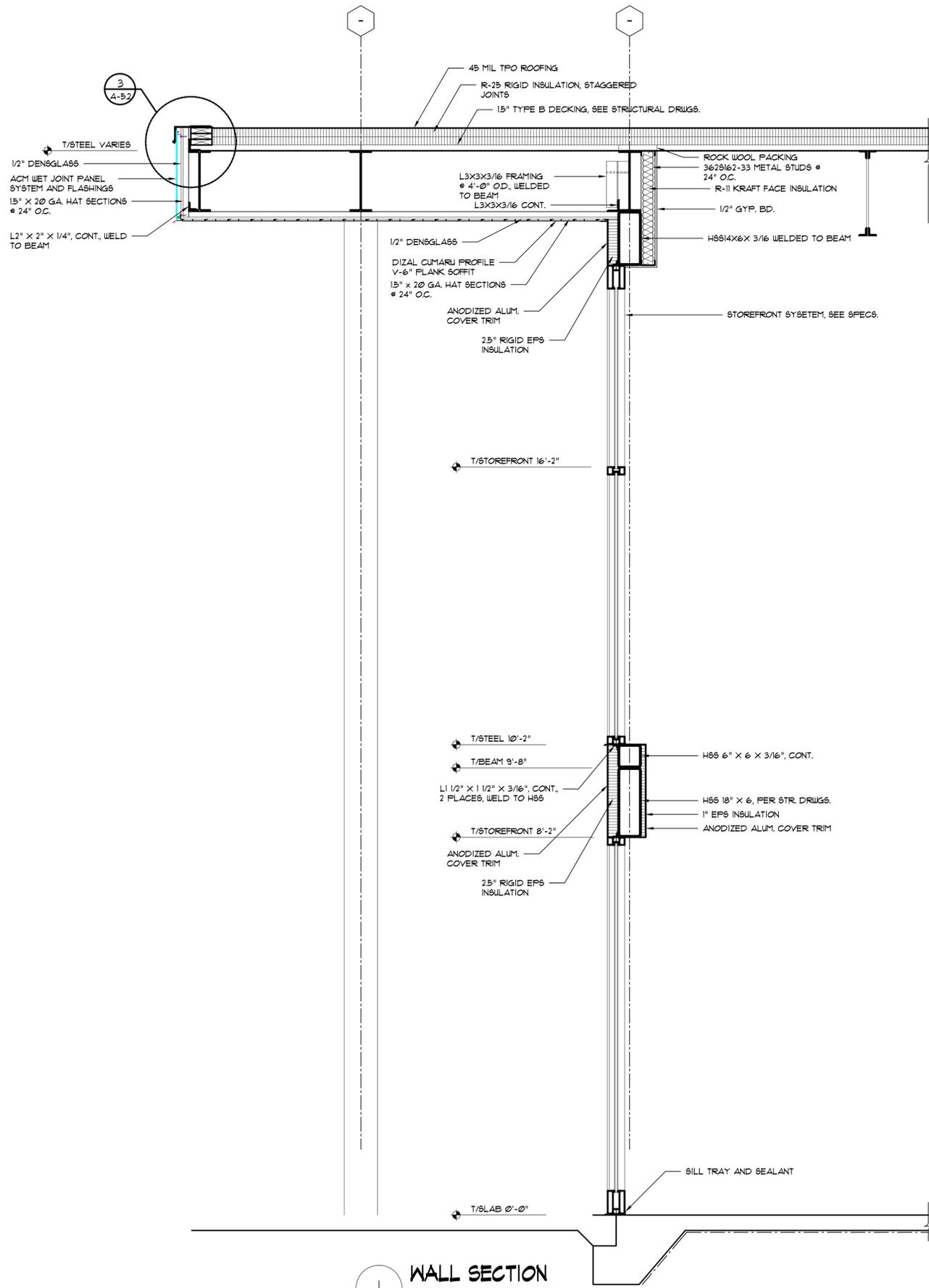
Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision:
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-4.1.5

Sheet Title:
WALL TYPE DETAILS

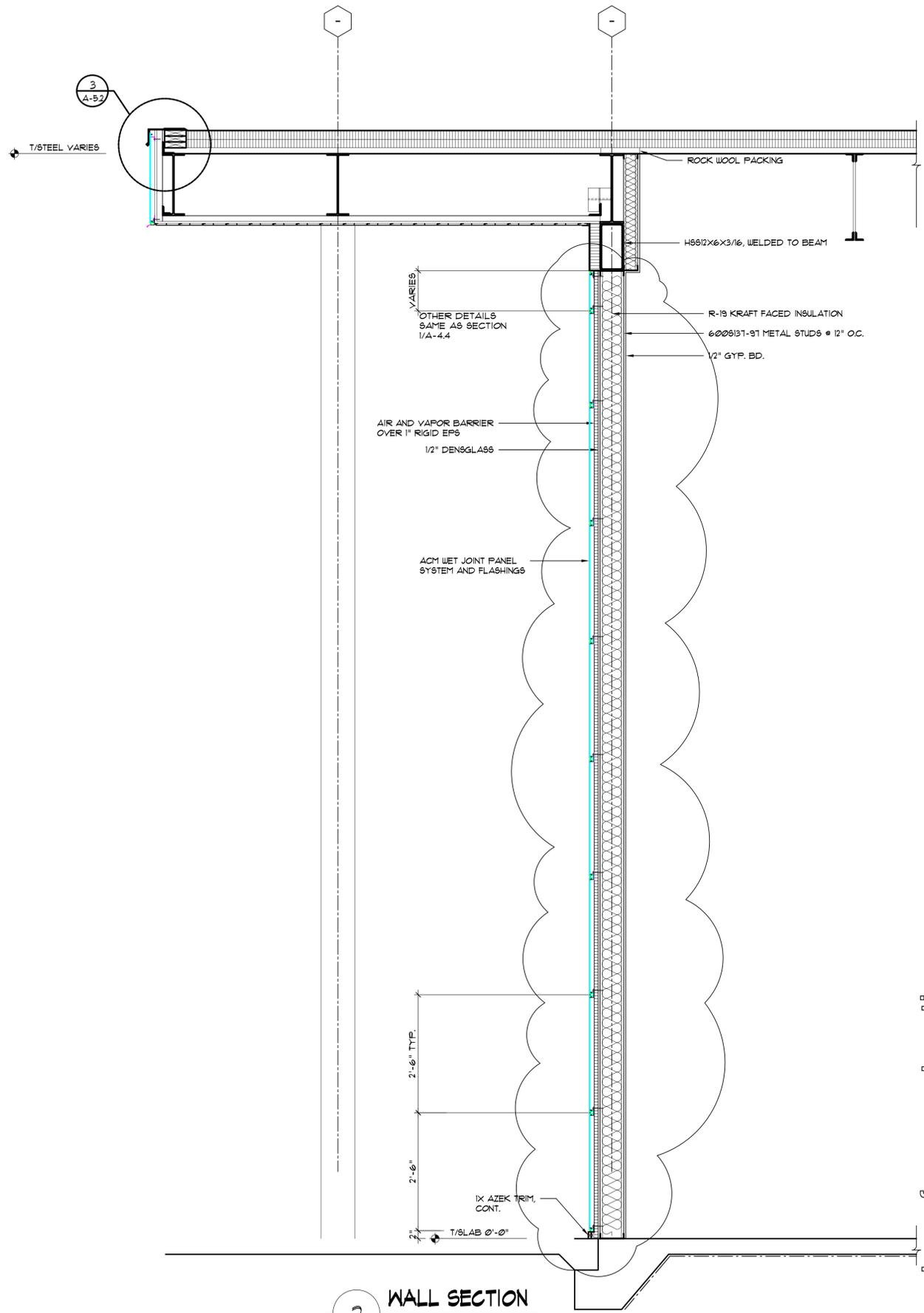
Sheet No.:
A-4.1.5

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.



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



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

BRAVO BLDG SET 04-21-2025

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Beta Design Group, Inc.
Architects
2118 Rosser Place Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

SUNBELT
BUILDERS™
10841 HWY 6 COVINGTON, LA 70014 504 770 788 0 1 770 98 048

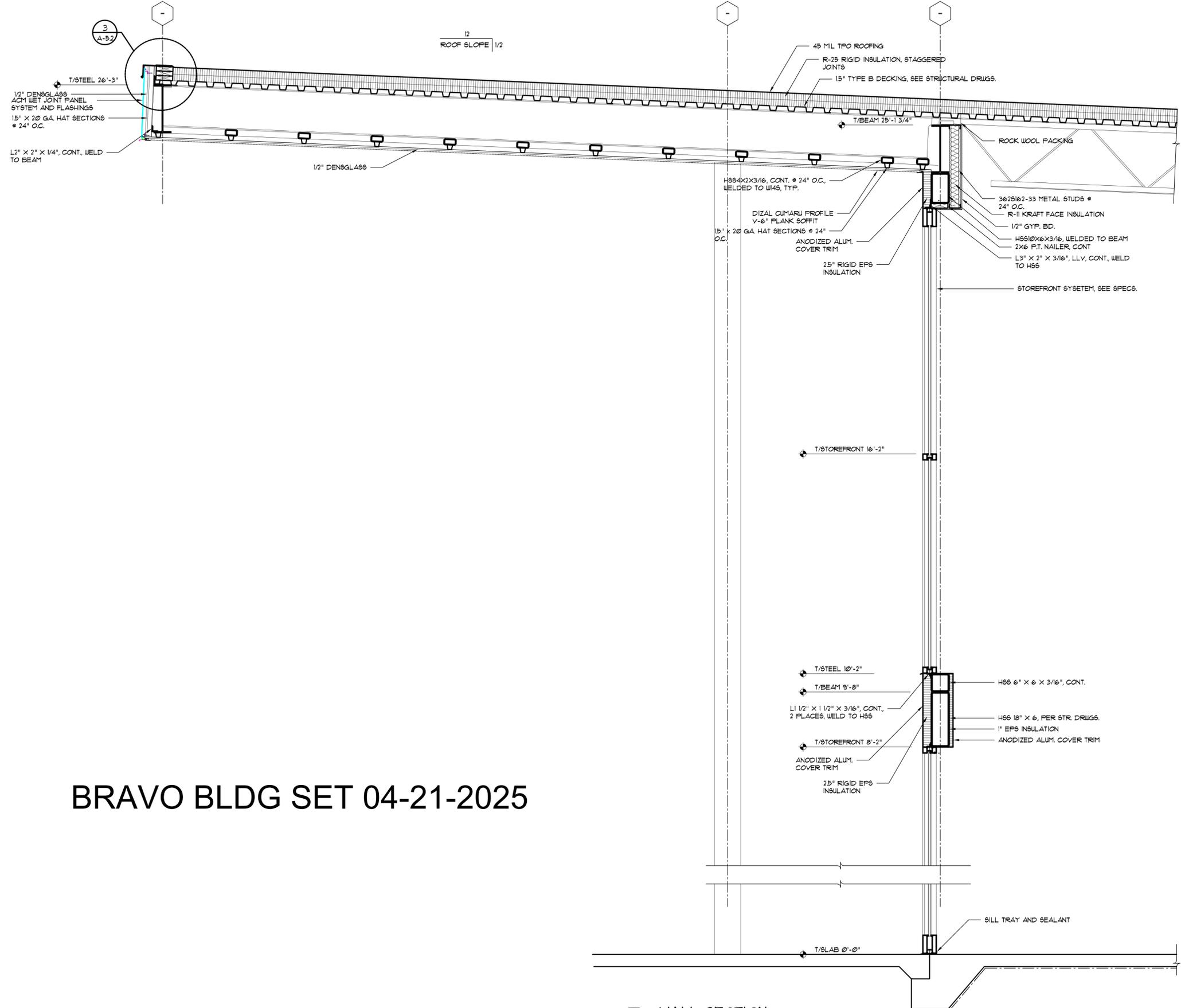
Client: **R. L. COUSINS COMMUNITY CENTER**
Project: **NEWTON CO. BOC RFP #24-04**
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	07/11/24	E.M.S. I.	DRWG. COORD. W/C CONTR.
Project No.:	2023012	Drwg. Date:	06/28/24
Drwg. Revision:	07/11/24	Drawn By:	B.D.G.
Checked By:	E.M.S.	File Name:	2023012 A-4.4

Sheet Title:
WALL SECTIONS

Sheet No.:

A-4.4



BRAVO BLDG SET 04-21-2025

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

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of consulting or leading the work shown herein at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Beta Design Group, Inc.
Architect
2118 Rosser Place
Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

SUNBELT
BUILDERS™
10841 HWY 6 COVINGTON, LA 70421
0014.1.770.788 0 1 770.98.048

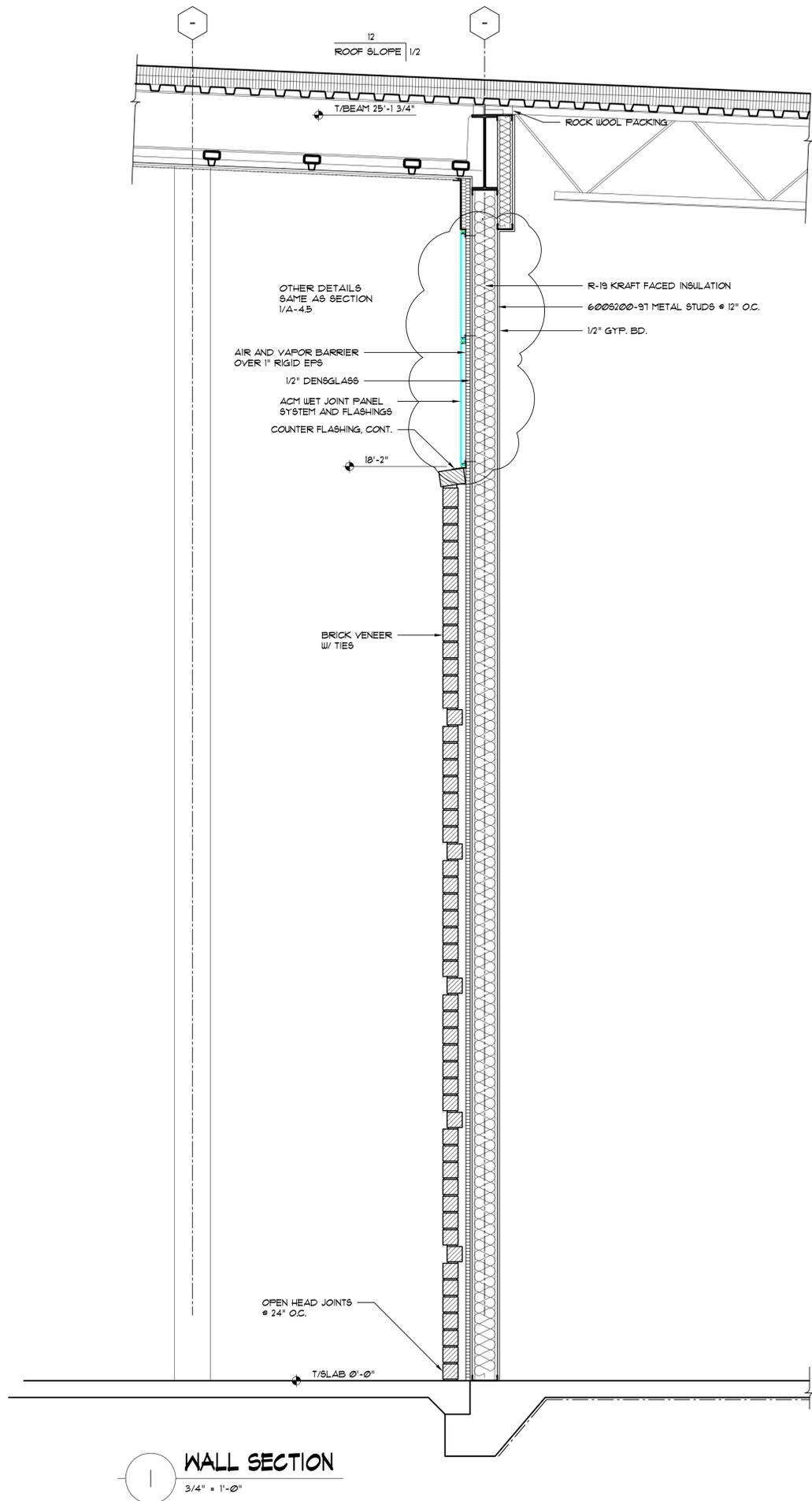
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue	Date	Initial	Drwg.	Revision	Description

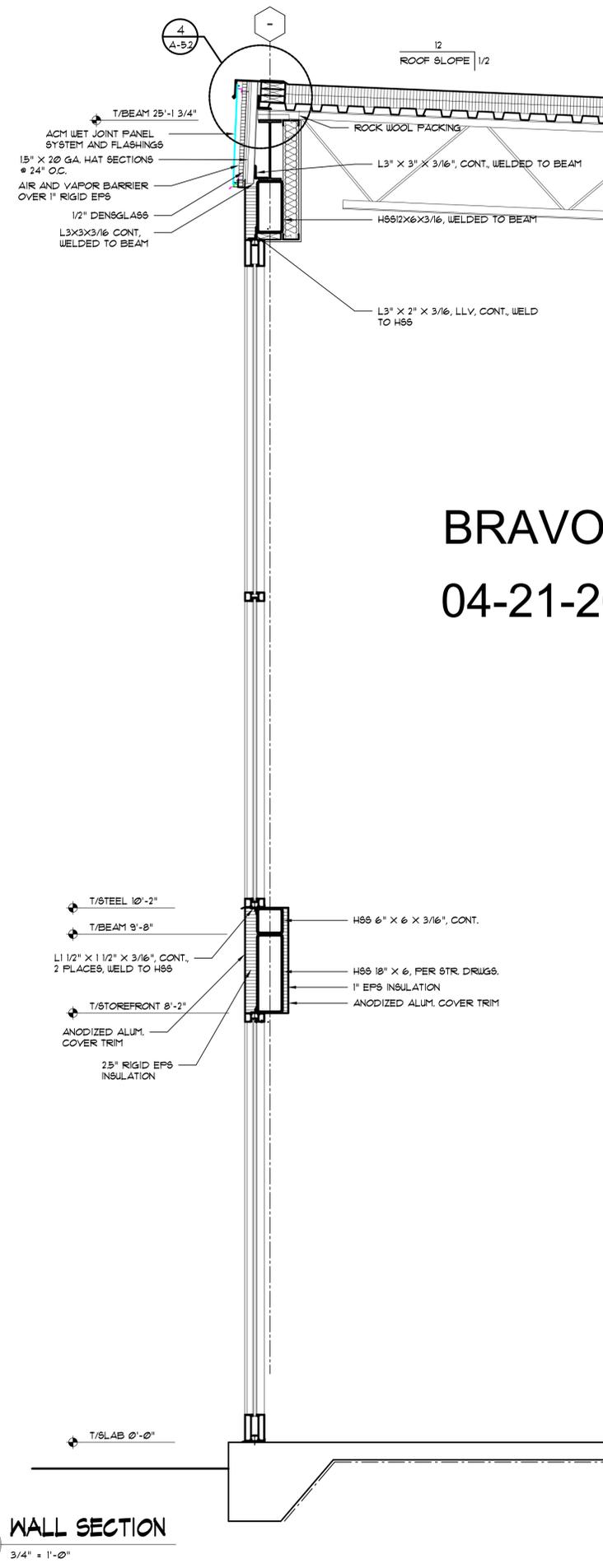
Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.5

Sheet Title:
WALL SECTIONS

Sheet No.:
A-4.5



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



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

BRAVO BLDG SET
04-21-2025

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COWINGTON, GEORGIA

Issue Date: 07/11/24
Initial: []
E.M.S.: 1 - DRWG. COORD. W/ CONTR.

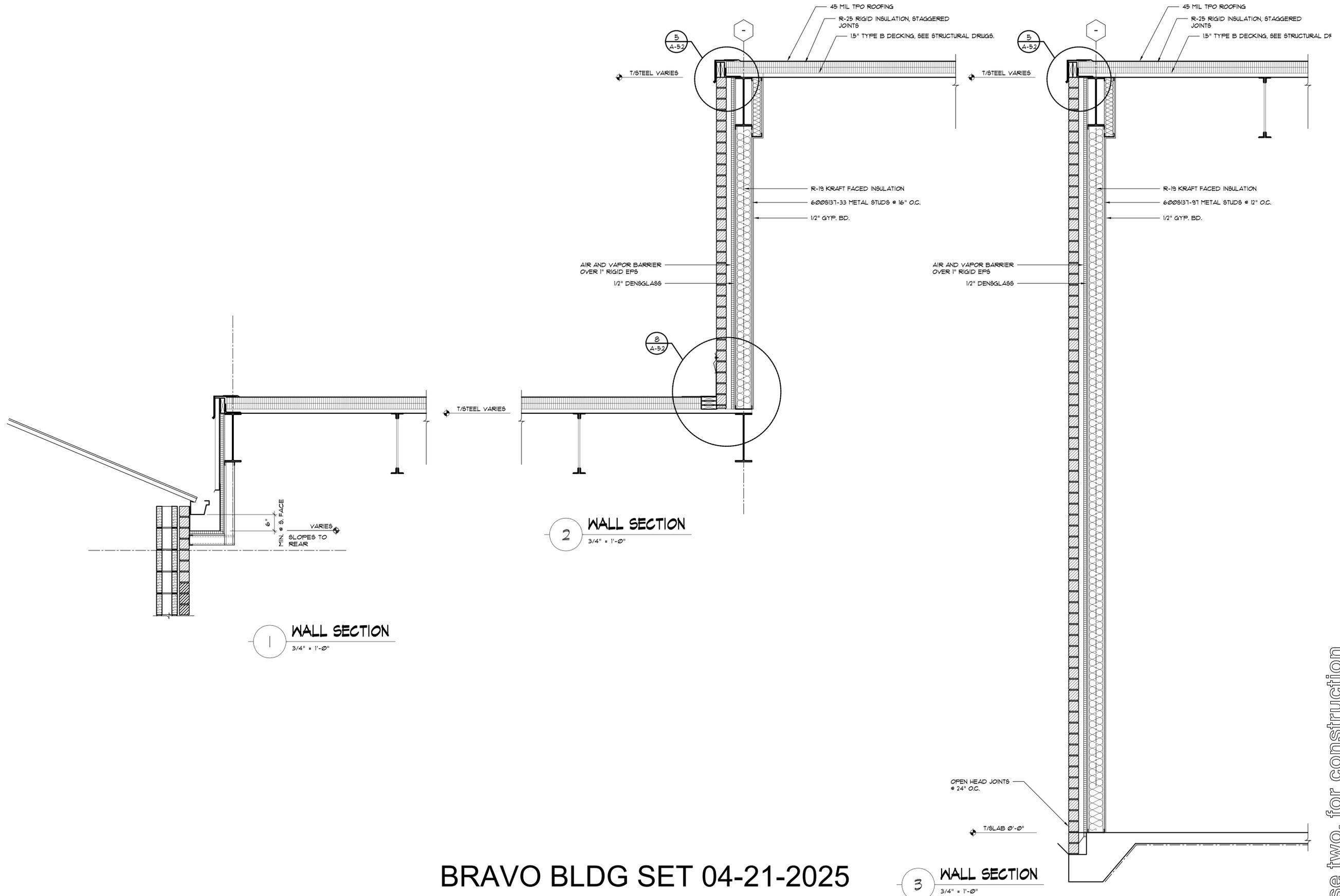
Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision: 07/11/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.6

Sheet Title: WALL SECTIONS
Sheet No.: A-4.6

Beta Design Group, Inc. Architecture
2118 Rosser Place Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

100411007 6 00-SECTION 0A 0014 1.7.0 788 0 1 7.0 98 048

STATE OF GEORGIA
E. MICHAEL SHIPLEY
REGISTERED PROFESSIONAL ARCHITECT
12100 WOODWAY



BRAVO BLDG SET 04-21-2025

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or leading the work shown herein at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Beta Design Group, Inc.
Architecture
2118 Rosser Place Stone Mountain, GA. 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

STATE OF GEORGIA
REGISTERED PROFESSIONAL ARCHITECT
E. MICHAEL SHIPLEY
062578024
RESERVED

SUNBELT
BUILDERS™
10841 HWY 6 COVINGTON, LA 70411 770 788 0170 98 048

Client:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue	Date	Initial	Drwg.	Revision	Description

Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.8

Sheet Title:
WALL SECTIONS

Sheet No.:
A-4.8

BRAVO BLDG SET 04-21-2025



Beta Design Group, Inc.
 Architecture
 2118 Rosser Place Stone Mountain, GA 30087
 Phone: 770 491 9250
 Email: mikes@betadesigngroup.com

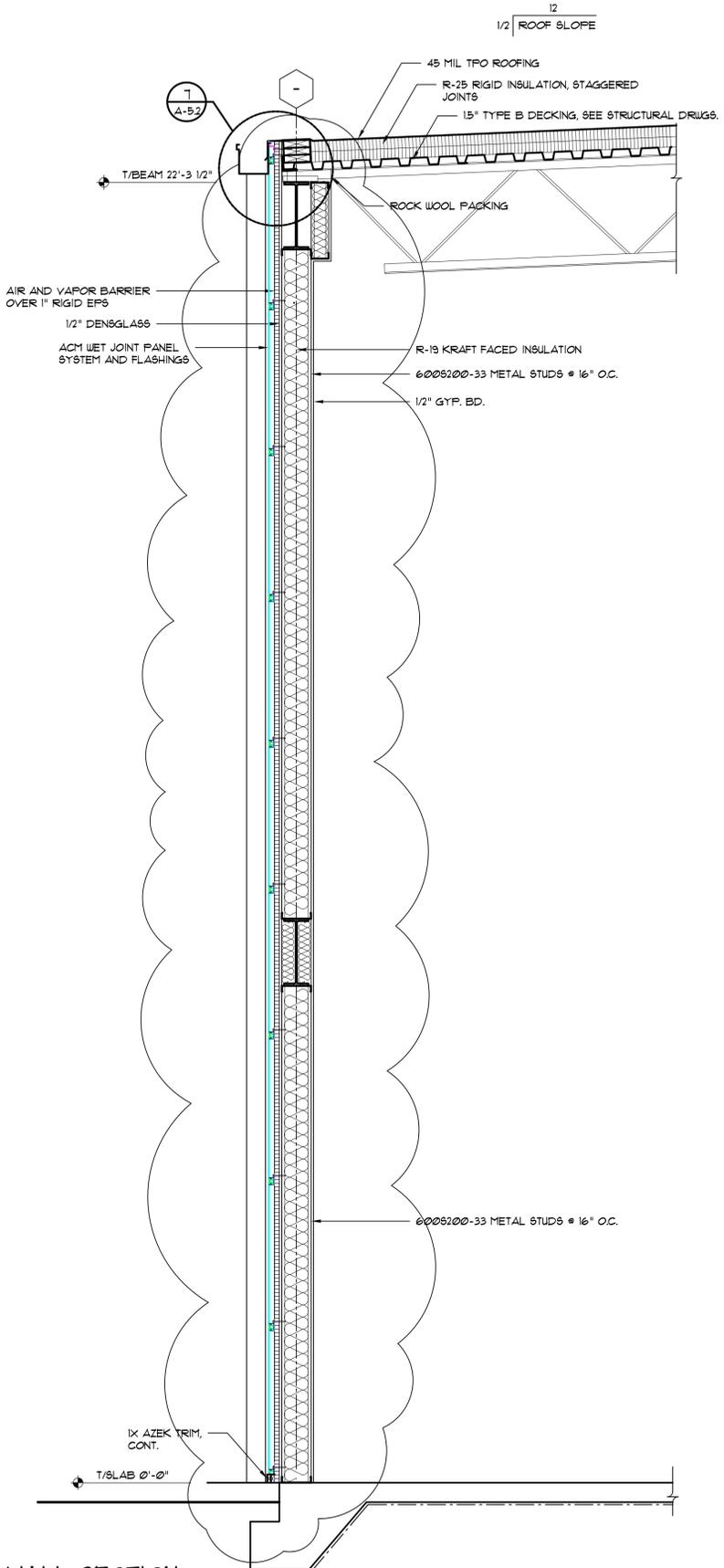
SUNBELT
 BUILDERS™
 10841 HWY 6 COVINGTON, LA 70411 770 788 0177

Client:
R. L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

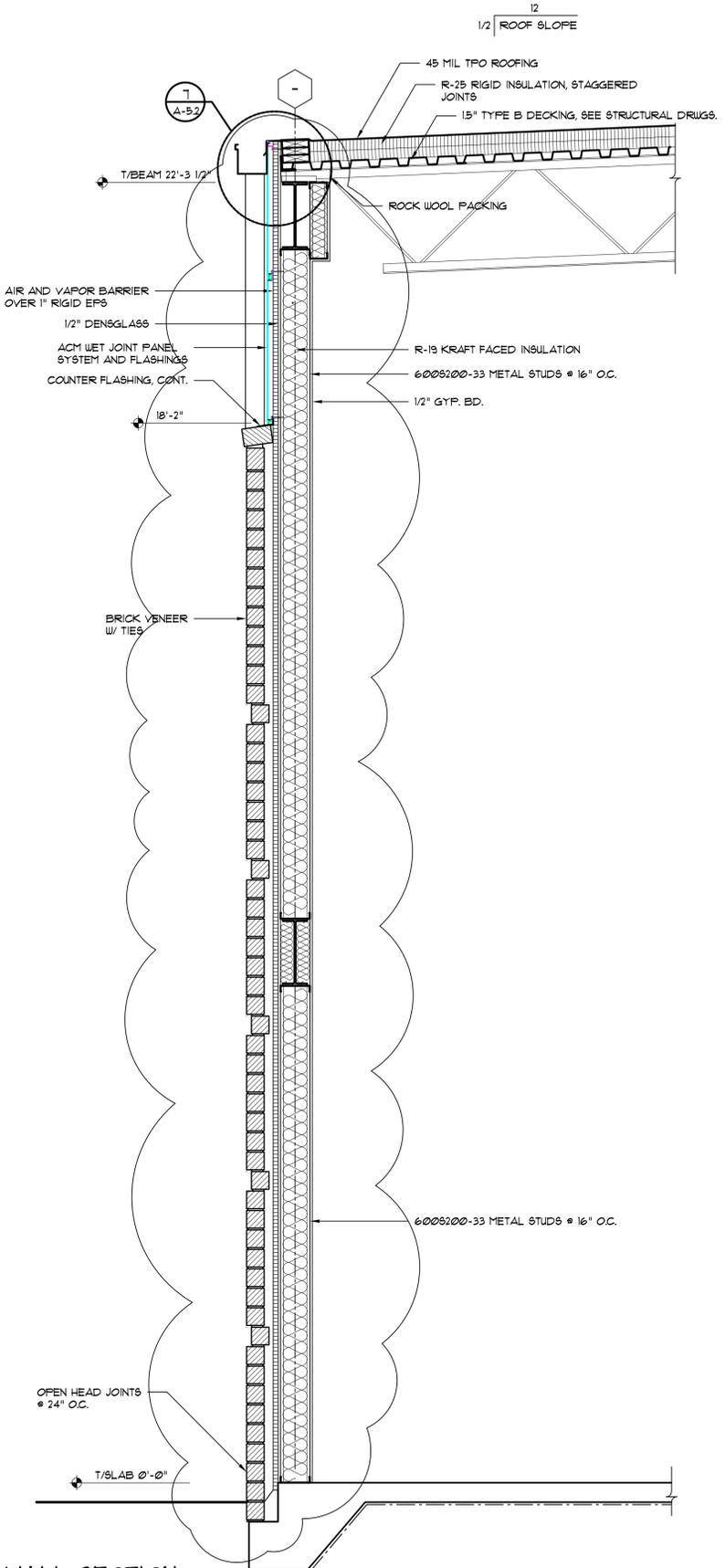
Project:
 Issue Date: 07/11/24
 Description: DRWG. COORD. W/ CONTR.
 E.M.S.: 1.
 Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision: 07/11/24
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-4.9

Sheet Title:
WALL SECTIONS
 Sheet No.:
A-4.9

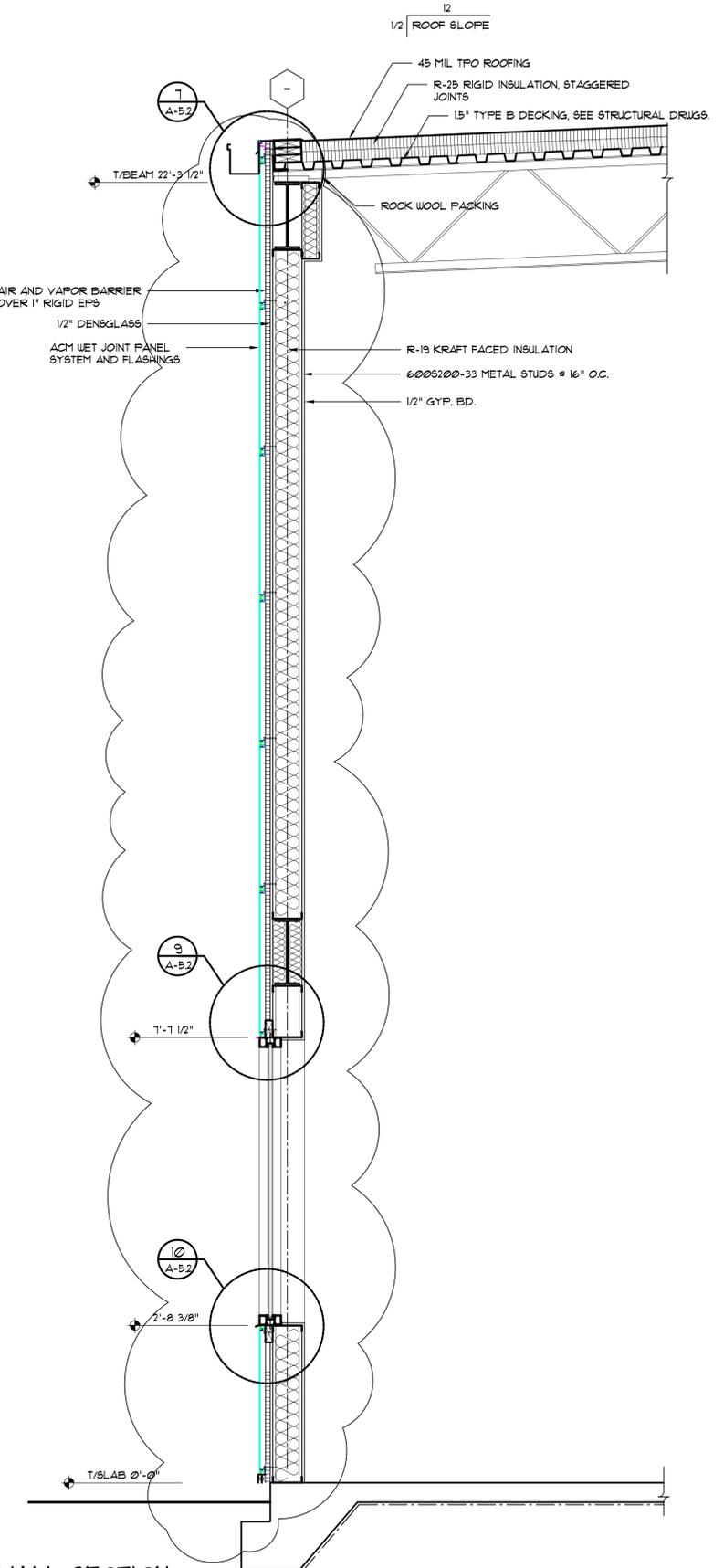
phase two, for construction



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

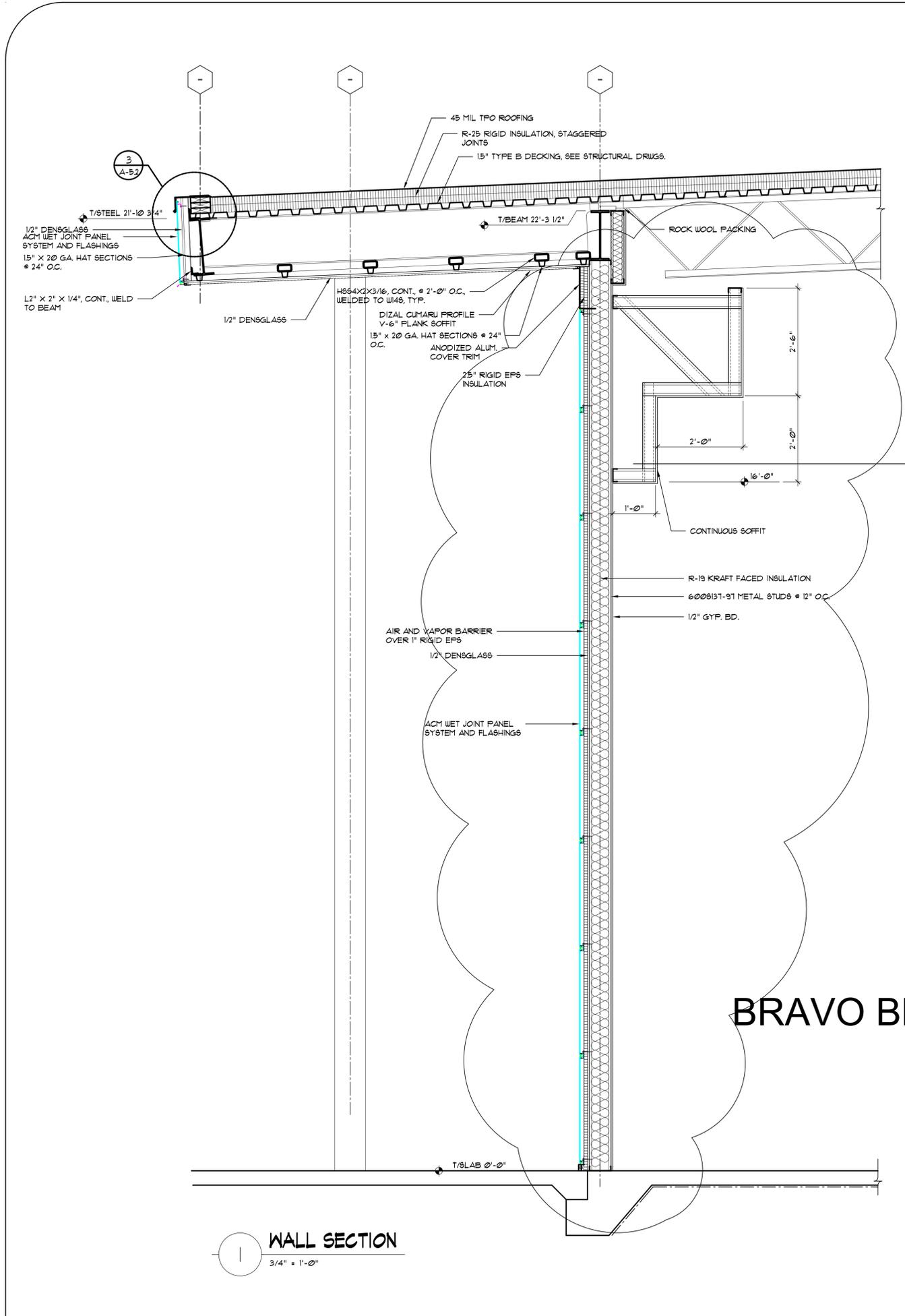


2 WALL SECTION
 3/4" = 1'-0"

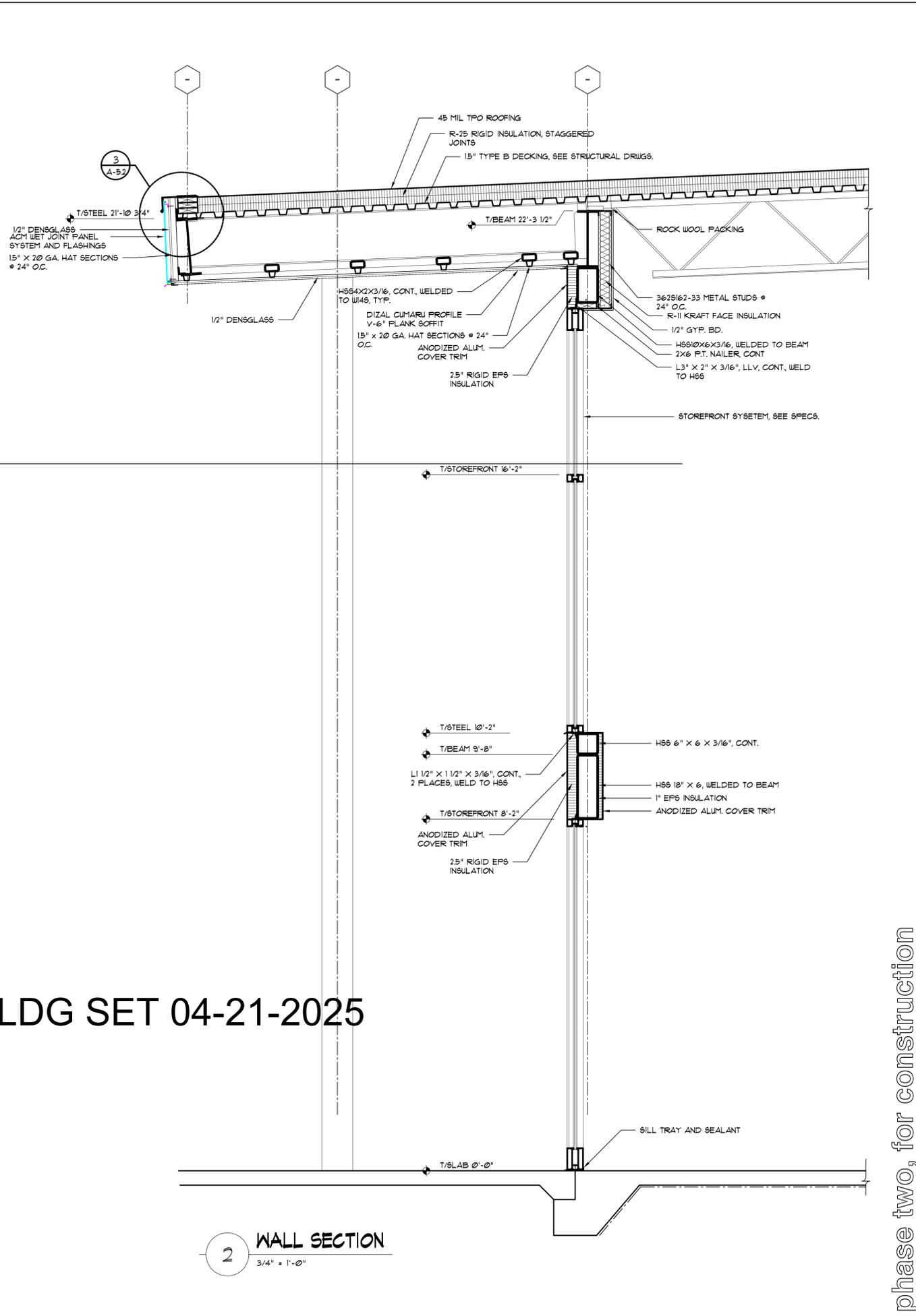


3 WALL SECTION
 3/4" = 1'-0"

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.



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



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

BRAVO BLDG SET 04-21-2025

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be utilized only for the purpose of constructing or installing the work shown herein at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

Beta Design Group, Inc.
Architects
2118 Rosser Place
Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

STATE OF GEORGIA
REGISTERED PROFESSIONAL ARCHITECT
E. MICHAEL SHADLEY
001170804
LICENSED

SUNBELT
BUILDERS™
10841 HWY 6 COVINGTON, LA 70014 1.770.988.0177

Client:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

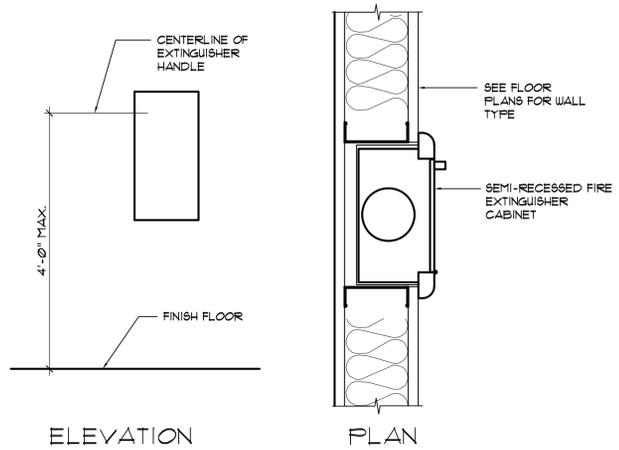
Issue Date	Initial	Drawg.	Revision	Description
07/11/24	E.M.S.	1	DRW / COORD.	W / CONTR.

Project No.: 2023012
 Drwg. Date: 06/28/24
 Drwg. Revision: 07/11/24
 Drawn By: B.D.G.
 Checked By: E.M.S.
 File Name: 2023012 A-4.10

Sheet Title:
WALL SECTIONS

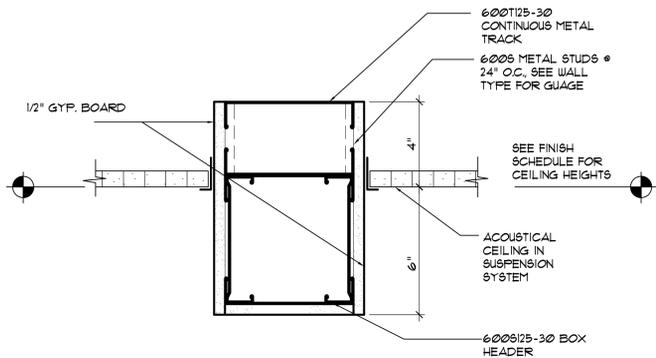
Sheet No.:
A-4.10

BRAVO BLDG SET 04-21-2025



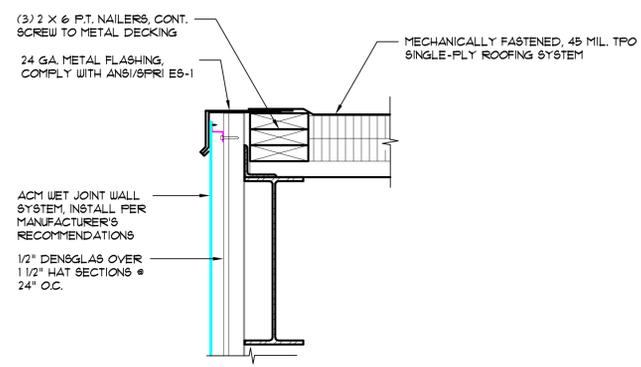
FIRE EXTNG. MOUNTING HEIGHT

1 1/2" = 1'-0" 10520aab



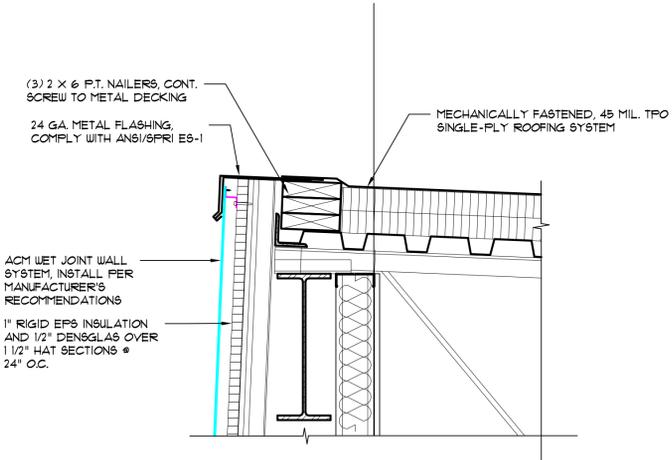
HEADER DETAIL

2 3" = 1'-0" 09120aab



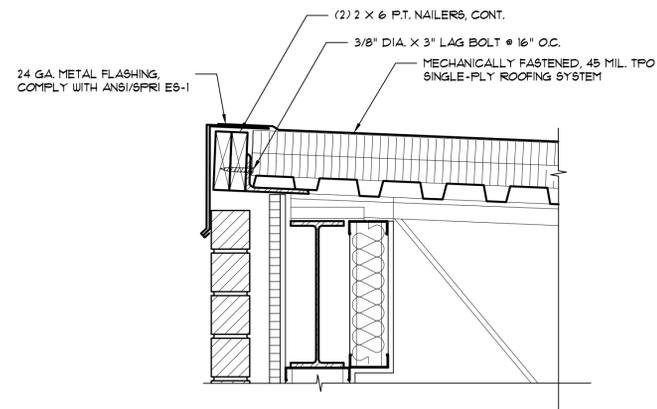
ROOF EDGE DETAIL

3 1/2" = 1'-0"



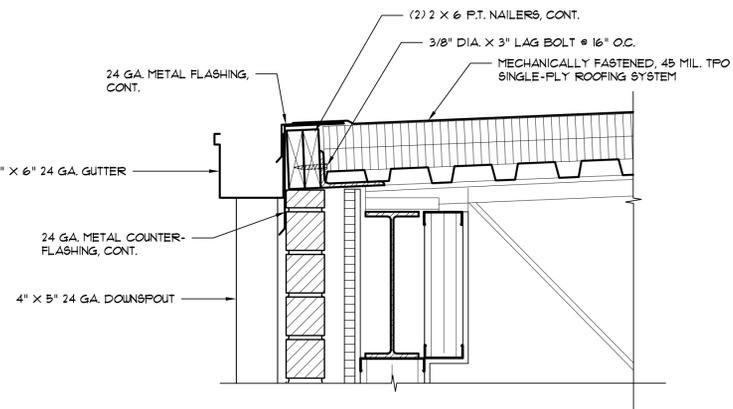
ROOF EDGE DETAIL

4 1/2" = 1'-0"



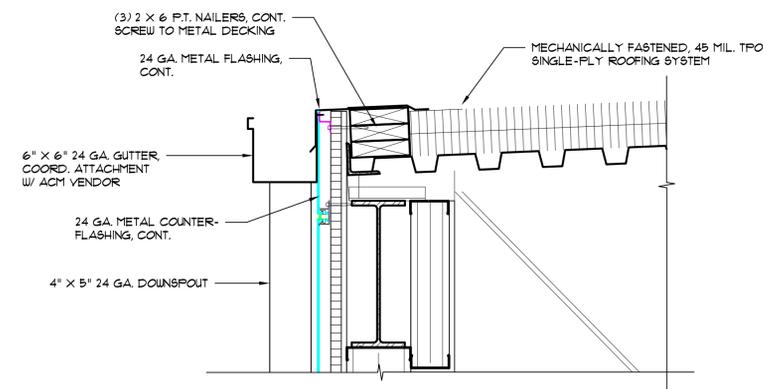
ROOF EDGE DETAIL

5 1/2" = 1'-0"



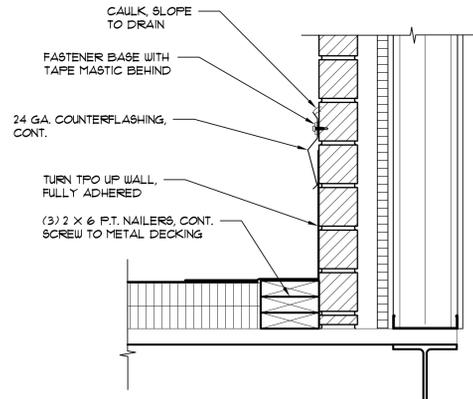
ROOF EDGE DETAIL

6 1/2" = 1'-0"



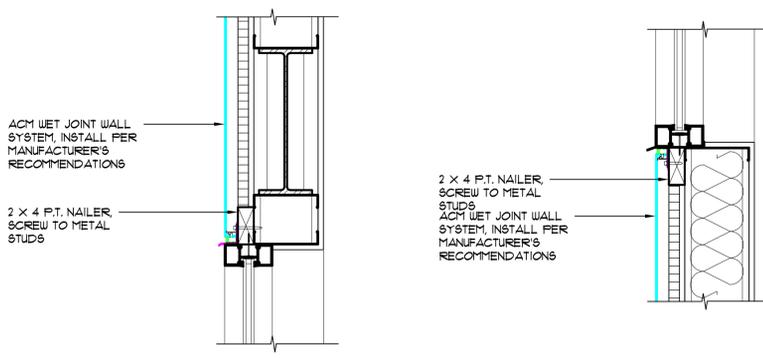
ROOF EDGE DETAIL

7 1/2" = 1'-0"



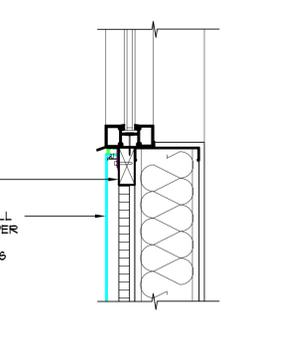
ROOF EDGE DETAIL

8 1/2" = 1'-0"



WINDOW DETAIL

9 1/2" = 1'-0"



WINDOW DETAIL

10 1/2" = 1'-0"



Beta Design Group, Inc.
Architect
2118 Rosser Place
Stone Mountain, GA 30087
Phone: 770 491 9250
Email: mikes@betadesigngroup.com

SUNBELT
BUILDERS
100411007 6 COVINGTON, LA 0014 1 770 886 0 1 770 886 046

Client:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date	Initial	Drawg.	Revision	Description

Project No.: 202012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-5.2

Sheet Title:
CONSTRUCTION DETAILS

Sheet No.:
A-5.2

phase two, for construction

© BETA DESIGN GROUP, INC. 2024. This drawing may be used only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group, Inc. is prohibited.

STRUCTURAL NOTES

GENERAL NOTES:

- THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
- CONTRACT DOCUMENTS INCLUDE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS OR OTHER SUBMITTALS BY THE CONTRACTOR.
- REFERENCE TO DESIGN STANDARDS AND BUILDING CODES SHALL MEAN THE LATEST EDITION OF THE REFERENCE UNLESS SPECIFICALLY STATED OTHERWISE.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
- ALL MATERIALS & WORKMANSHIP ARE SUBJECT TO THE REVIEW OF THE ARCHITECT & ENGINEER OF RECORD.
- STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
- COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, RUSTICATIONS, SLOTS, SLEEVES, ANCHORS, AND INSERTS.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PENETRATIONS GREATER THAN 12" ACROSS SHALL BE FRAMED AS SHOWN IN THE ROOF OPENING FRAMING DETAIL.
- UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO OPENINGS LARGER THAN 12" x 12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVAL MUST BE OBTAINED FROM THE ARCHITECT PRIOR TO CONSTRUCTION OF OPENING.
- THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH REQUIRED OSHA REGULATIONS.
- THE STRUCTURE DESCRIBED BY THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY BRACING AND SHORING OF ALL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING AND MAINTAINING THE EXCAVATIONS REQUIRED FOR THE CONSTRUCTION SHOWN.
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING OFFICIAL REGARDING SUBMITTAL OF INSPECTION REPORTS TO THE BUILDING DEPARTMENT.
- DO NOT HANG OR ATTACH DUCTWORK, PIPING, LIGHTING, CONDUIT, EQUIPMENT, CEILINGS, ETC. FROM METAL DECKING.
- REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT AND STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN OR WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- CONSTRUCTION ADMINISTRATION AND SITE VISITS DURING CONSTRUCTION ARE NOT CURRENTLY INCLUDED IN OCONEE ENGINEERING'S SCOPE OF WORK FOR THIS PROJECT.

BUILDING DESIGN CRITERIA:

- THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) W/ GEORGIA STATE AMENDMENTS.
- LIVE LOADS:
 - ROOF LOAD (L_r) = 20 PSF (REDUCED PER IBC 1607.11.2)
 - FLOOR LOAD (L_f) = N/A
- DEAD LOADS:
 - ROOF LOAD (D) = 20 PSF
 - FLOOR LOAD (D) = N/A
- SNOW LOADS:
 - GROUND SNOW LOAD (P_g) = 5.0 PSF
- SEISMIC DESIGN CRITERIA:
 - RISK CATEGORY = II
 - SEISMIC IMPORTANCE FACTOR (I_e) = 1.00
 - $S_s = 0.1790$, $S_1 = 0.0819$
 - SITE CLASS = D
 - $S_{DS} = 0.191$, $S_{D1} = 0.131$
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 TABLE 12.2-1 OR 12.4-1):
 - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 - RESPONSE MODIFICATION FACTOR (R) = 3.0
 - SEISMIC RESPONSE COEFFICIENT (C_s) = 0.0636
 - SEISMIC DESIGN CATEGORY = B
 - DESIGN BASE SHEAR = 21.5 K "Y" DIRECTION (PERP. TO LONG AXIS)
= 18.9 K "X" DIRECTION (PERP TO SHORT AXIS)
 - ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE
- WIND LOADS:

BASIC WIND SPEED (V, 3 SEC GUST) = 108 MPH
OCCUPANCY CATEGORY = II
UPWIND EXPOSURE CATEGORY = B
INTERNAL PRESSURE COEFF. (G_C) = ±0.18
A = 6 FT.

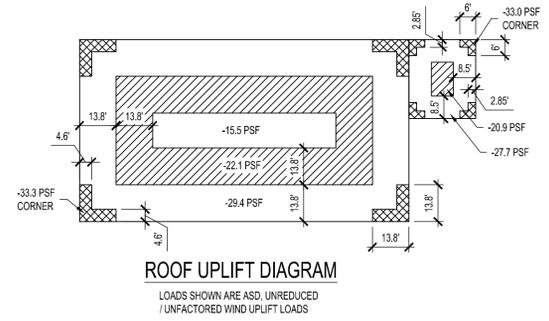
COMPONENTS & CLADDING DESIGN PRESSURES (P_{GROSS} PER ASCE 7-16) (LOADS ARE UNREDUCED & UNFACTORED)
ROOF COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 100 SF AREA)
ROOF: SEE ROOF UPLIFT DIAGRAM FOR UPLIFT LOADS

MAX DOWNWARD LOAD = 10 PSF

WALL COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 50 SF AREA)
ZONE 4 = +15.6 PSF, -17.0 PSF ZONE 5 = +15.6 PSF, -19.7 PSF
- PRE-ENGINEERED WOOD TRUSS DESIGN LOADS:

TOP CHORD:
DEAD LOAD = 10 PSF + TRUSS WEIGHT
LIVE LOAD = 20 PSF

BOT CHORD:
DEAD LOAD = 5 PSF + TRUSS WEIGHT
LIVE LOAD = 10 PSF (60 PSF @ MECHANICAL ACCESS LOCATIONS)
MECH LOAD = 200# CONCENTRATED LOAD @ ANY LOCATION ALONG BOT CHORD



FOUNDATION NOTES:

- DESIGN SOIL BEARING PRESSURE = 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE.
- ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL OR STRUCTURAL FILL AND HAVE A MINIMUM 12" OF COVER.
- PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
- COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH ADJACENT FOOTINGS AT THE SAME ELEVATION.
- GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
- PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
- STEP FOOTINGS DOWN BELOW MECHANICAL, ELECTRICAL, OR PLUMBING LINES AS REQUIRED TO AVOID INTERFERENCE. SEE TYP FOOTING STEP DETAIL. COORDINATE W/ OTHER TRADES. PROVIDE PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. WHERE LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.
- CONDUITS AND PIPES EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN 1/2 THE OVERALL THICKNESS OF THE SLAB, THEY SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER, AND A MIN SLAB THICKNESS OF 3" MUST BE MAINTAINED OVER EMBEDDED ITEMS.
- ALL DRAIN TILE SHALL BE 4" DIAMETER (MIN) PERFORATED PLASTIC PIPE WITH FABRIC SOCK AND 12" MINIMUM WASHED RIVER ROCK SURROUND. DO NOT USE CRUSHED OR FINE GRAVEL.
- WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEVING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

CONCRETE NOTES:

- PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, ACCORDING TO ACI 301.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS:
3000 PSI NORMAL WEIGHT CONCRETE (AS INDICATED ON DRAWINGS) WITH MAXIMUM WATER - CEMENTITIOUS MATERIALS RATIO OF 0.50 FOR 3000 PSI MIX. PROVIDE A MAXIMUM SLUMP OF 2" TO 4" BEFORE ADDING HIGH RANGE, WATER REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE.
- FOR EXTERIOR CONCRETE, PROVIDE AIR ENTRAINMENT OF 5 1/2% ± 1/2% AT POINT OF DELIVERY FOR CONCRETE WITH 1 1/2" NOMINAL MAXIMUM AGGREGATE SIZE. EXCEPTION: DO NOT ALLOW AIR CONTENT IN TROWELED, FINISHED FLOORS TO EXCEED 3%.
- STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
- SLAB ON GRADE CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED AS INDICATED ON DRAWINGS SUCH THAT NO JOINT SPACING SHALL EXCEED 12'-0" O.C. FOR 4" SLABS & 15'-0" O.C. FOR 6" SLABS. THE LENGTH OF ANY PANEL SHALL NOT EXCEED TWO TIMES THE WIDTH OF THAT PANEL. JOINTS SHALL BE SAWED WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND RIMMED BLADES. CUT JOINTS 1/2" WIDE TO 1/4 OF THE SLAB DEPTH. JOINTS SHALL BE CUT AS SOON AS SAWING OPERATIONS WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE THE SLAB SURFACE.
- FLOOR SLAB CONSTRUCTION JOINTS MAY BE DOWELED OR FORMED WITH METAL KEYWAYS. ALL SLAB REINFORCING SHALL EXTEND THROUGH CONSTRUCTION JOINTS. SEE DETAILS.
- EXTERIOR SLABS SHALL DRAIN FREELY AWAY FROM THE BUILDING. COORDINATE ELEVATIONS WITH CIVIL ENGINEER AND ARCHITECT.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB FINISHES, SLOPES, AND DEPRESSIONS OF INTERIOR SLABS.
- UNO, CHAMFER ALL EXPOSED CORNERS 3/4".
- VERTICAL, FULL HEIGHT, WEAKENED PLANE CONTRACTION JOINTS SHALL BE LOCATED AT 25'-0" MAXIMUM SPACING IN POURED CONCRETE WALLS. ALTERNATE LONGITUDINAL (HORIZONTAL) REINFORCING BARS SHALL BE STOPPED (JOINTED) AT CONTRACTION JOINTS. PROVIDE 1" WIDE, VERTICAL EXPANSION JOINTS AT 100'-0" MAXIMUM SPACING.
- FULL HEIGHT CONSTRUCTION JOINTS BETWEEN SUCCESSIVE POURS SHALL BE KEYED (METAL KEYKOLD OR SIMILAR) IN POURED CONCRETE WALLS. A CONSTRUCTION JOINT MAY BE SUBSTITUTED FOR ANY CONTRACTION JOINT. EXTEND ALL HORIZONTAL REINFORCING THROUGH CONSTRUCTION JOINT UNLESS NOTED OTHERWISE.
- ALL CONCRETE WALLS EXPOSED TO VIEW SHALL HAVE A SMOOTH FORMED FINISH. REPAIR AND PATCH THE HOLES AND DEFECTS AND REMOVE FINIS AND OTHER PROJECTIONS. WORKMANSHIP IS SUBJECT TO THE APPROVAL OF THE ARCHITECT OF RECORD. CONTRACTOR SHALL, AT NO COST TO THE OWNER, REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.
- CONTRACTOR SHALL TO CONFORM TO ACI HOT OR COLD WEATHER PLACEMENT PROCEDURES IF APPLICABLE DUE TO TEMPERATURES AT TIME OF POUR.
- SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISHES AND CURING COMPOUNDS.
- CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 50 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER x 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

REINFORCING STEEL NOTES:

- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS:
 - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
 - REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
- CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
 - CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) 3"
 - FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
 - SLABS & JOISTS W/ #5 BARS & SMALLER 1 1/2"
 - SLABS & JOISTS W/ #6 BARS & LARGER 2"
 - BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS 2"
 - FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
 - SLABS & JOISTS 3/4"
 - BEAMS, PIERS, & COLUMNS 1 1/2"
 - WALLS 3/4"
 - FOOTINGS & BASE SLABS 2"
- ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE CLASS "B" TENSION SPLICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPLICED BARS SHALL BE SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED 24" MIN WHEREVER POSSIBLE.
- WELDED WIRE FABRIC, WHERE REQUIRED, SHALL BE PLACED IN THE CENTER OF THE SLAB UNLESS NOTED OTHERWISE. LAP JOINTS ONE WIRE SPACING PLUS 2" OR A MINIMUM OF 6". EXTEND FABRIC TO WITHIN 1" OF EDGES OF SLABS ON GRADE.
- PROVIDE ADEQUATE BOLSTERS, HIGH CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS AND WELDED WIRE FABRIC.
- ALL CONCRETE WALLS TO BE DETAILED IN ELEVATION ON SHOP DRAWINGS. NO MORE THAN 50% OF HORIZONTAL WALL REINFORCING SHALL LAP IN A SINGLE VERTICAL PLANE.
- REBAR FOR WELDED CONNECTIONS MUST MEET ASTM A706 WHICH ARE SPECIALLY FORMULATED TO BE WELDABLE. STANDARD ASTM A615 GRADE 60 REBARS ARE NOT ACCEPTABLE FOR WELDING. WELDING PROCEDURE SHALL CONFORM TO ANSII/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL". DO NOT TACK WELD.
- PROVIDE TWO #4 DIAGONAL BARS x 3'-0" LONG IN THE TOP FACE OF ALL SLABS AT ALL REINTRANT CORNERS. AT THE FLANGES OF PROJECTING POSTS & COLUMNS, AND AROUND FLOOR DRAINS. CENTER THE BARS ON THE CORNERS OR PROJECTIONS ABOVE THE SLABS.
- INTERSECTING WALLS, IF POURED SEPARATELY, SHALL BE KEYED AND DOWELED TOGETHER W/ BARS OF THE SAME SIZE & SPACING AS HORIZ WALL REINFORCING.
- TIE ALL REINFORCING & EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

CONC REINF LAP LENGTH	
3000 PSI (ACI 318-11)	
BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	22"
#4	29"
#5	36"
#6	43"
#7	63"
#8	72"

OCONEE ENGINEERING L.L.C.
ATTN: S. GA
LAKE OCONEE
2610 Bowdoin Pond Road
Greensboro, GA 30642
P: (770) 313-0902
e-mail: rajp@oconeeengineering.com



R.L. COUSINS COMMUNITY CENTER
NEWTON CO. BOCC RFP #24-04
8134 GEIGER STREET, COVINGTON, GA
FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/4/2024		ISSUE FOR PRICING
	4/22/2024		ISSUE FOR PRICING

DESIGNED:	DRAWN:	CHECKED:	APPROVED:
CE PROJECT NO. 024007	FILE NAME: 024007-S-CORE16	ORIGINAL DRAWING SIZE: 36"x24"	DATE: 2-20-2025

© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED. ANY ALTERATION, REVISION, OR MODIFICATION MUST BE AUTHORIZED IN WRITING BY OCONEE ENGINEERING, L.L.C.

STRUCTURAL SPECIFICATIONS

S-0.1
SHEET 1 OF 12

BRAVO BLDG SET 04-21-2025

STRUCTURAL NOTES (CONT.)

STRUCTURAL STEEL NOTES:

- MATERIALS:
 - STRUCTURAL W-SHAPES: ASTM A992, Fy = 50 KSI
 - STRUCTURAL TUBING: ASTM A500, GRADE B, Fy = 46 KSI
 - STRUCTURAL PIPE: ASTM A53, GRADE B, Fy = 35 KSI
 - OTHER SHAPES & PLATES: ASTM A36, Fy = 36 KSI
 - CONNECTION BOLTS: ASTM A325, UNO
 - ANCHOR RODS: ASTM F1554, A307, OR A36, Fy = 36 KSI (2 NUTS & WASHERS W/ EACH)
 - WELDING ELECTRODES: E70-XX, UNO.
- STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AISC.
- BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER BOLTS AND WASHERS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN CONFORMANCE WITH THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL HOLES TO BE DRILLED OR PUNCHED; FLAME CUT HOLES ARE NOT PERMITTED.
- SHOP OR FIELD SPLICES BETWEEN SUPPORTS THAT ARE NOT REQUIRED BY DESIGN WILL NOT BE ALLOWED. ANY MEMBERS CONTAINING SUCH SPLICES SHALL BE REMOVED AND REPLACED WITH UNSPLICED MEMBERS AT THE FABRICATOR'S EXPENSE.
- PROVIDE BOLTS AND PUNCH HOLES IN STRUCTURAL AND MISCELLANEOUS STEEL FOR ATTACHMENTS OR WOOD NAILERS AS REQUIRED ON THE ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.
- MINIMUM SIZE OF WELD IS 3/16" UNLESS NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO THE LATEST "STRUCTURAL WELDING CODE" BY THE AMERICAN WELDING SOCIETY. ALL WORK SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN THE TYPE OF CONSTRUCTION INVOLVED. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE.
- SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED.
- STEEL BEAMS SUPPORTED ON MASONRY OR CONCRETE WALLS SHALL HAVE A MIN OF 8" BEARING ON STEEL PLATE WITH ANCHORS.
- PROVIDE 1 1/2" NON-SHRINK GROUT UNDER ALL BASEPLATES.
- ALL STEEL SHALL HAVE A PRIME COAT OF PAINT EXCEPT STEEL NOTED TO BE GALVANIZED.
- ALL PORTIONS OF STEEL ENCASED IN CONCRETE OR IN CONTACT WITH EARTH SHALL BE PAINTED WITH BITUMINOUS PAINT.
- STEEL FABRICATOR TO BE AN AISC CERTIFIED FABRICATOR.
- ALL PLAN DIMENSIONS ARE TO CENTERLINE OF STEEL MEMBERS EXCEPT FOR STEEL CHANNELS. CHANNEL DIMENSIONS ARE TO THE BACK FACE OF THE WEB.

STEEL JOIST & GIRDER NOTES:

- BAR JOISTS AND JOIST GIRDERS SHALL BE DESIGNED AND FABRICATED ACCORDING TO THE LATEST STANDARDS OF THE STEEL JOIST INSTITUTE. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.
- BAR JOISTS SHALL BE WELDED TO SUPPORTING BEAMS, JOIST GIRDERS OR WELD PLATES WITH 1" OF 3/16" WELD AT EACH SIDE OF BAR JOIST UNLESS NOTED OTHERWISE.
- PROVIDE JOIST BRIDGING TO MEET THE REQUIREMENTS OF SJI. PROVIDE UPLIFT BRIDGING FOR THE NET UPLIFT SHOWN IN THE DESIGN LOADING NOTES.
- BRIDGING TERMINATING AT MASONRY WALLS OR STEEL BEAMS SHALL BE ANCHORED TO WALL OR BEAM.
- BAR JOISTS AT COLUMN LOCATIONS TO BE BOLTED TO SUPPORTING BEAM, JOIST GIRDER, OR COLUMN AT TIME OF ERECTION.
- MINIMUM BEARING REQUIREMENTS:
 - BAR JOISTS:
 - 2 1/2" ON STRUCTURAL STEEL
 - 4" ON STEEL BEARING PLATES IN MASONRY OR CONCRETE
 - JOIST GIRDERS:
 - 4" ON STRUCTURAL STEEL
 - 6" ON STEEL BEARING PLATES IN MASONRY OR CONCRETE
- UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO PROVISIONS HAVE BEEN MADE IN THE BAR JOIST DESIGN TO ACCOUNT FOR CONCENTRATED LOADS. CONCENTRATED LOADS IN EXCESS OF 200 POUNDS WILL REQUIRE JOIST REINFORCING PER THE DETAILS. ROOF MOUNTED HVAC UNITS SHALL BE SUPPORTED AS SHOWN IN THE ROOF OPENING FRAMING DETAIL.

METAL DECK NOTES:

- MATERIALS:
 - ROOF DECK: 1 1/2" DEEP, TYPE "B" (WIDE RIB), 22 GAGE, PAINTED, SHEET WIDTH = 36"
- METAL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE (SDI). ALL PRODUCTS SHALL BE FACTORY MUTUAL APPROVED.
- STEEL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SUPPORTS.
- DECK ATTACHMENT PATTERN SHALL BE AS INDICATED ON DRAWINGS.
- PROVIDE 1 1/2" MINIMUM DECK BEARING AT ALL SUPPORTS. DECK SHALL BE PLACED AT THE PERIMETER WITH A COMPLETE RIB BEARING ON THE STEEL SUPPORT.

MASONRY NOTES:

- MATERIALS, TESTING AND STORAGE OF MATERIALS SHALL CONFORM TO ACI-530 "SPECIFICATION FOR CONCRETE MASONRY STRUCTURES".
- HOLLOW LOAD BEARING MASONRY UNITS:
 - SHALL CONFORM TO ASTM C90
 - WEIGHT: LIGHTWEIGHT
 - MINIMUM COMPRESSIVE STRENGTH fm = 1500 PSI ON NET AREA
 - MORTAR SHALL CONFORM TO ASTM C270 CEMENT-LIME, TYPE S.
 - MASONRY UNITS AND MORTAR SHALL INCLUDE INTEGRAL WATERPROOFING AGENT "DRYBLOCK" BY W.R. GRACE OR APPROVED EQUAL.
- GROUT:
 - SHALL CONFORM TO ASTM C476
 - MAXIMUM AGGREGATE SIZE OF 3/8"
 - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI
 - MAXIMUM SLUMP OF 9 INCHES
 - MAXIMUM GROUT LIFT = 5'-0".
- MASONRY REINFORCING (TYP, UNO):
 - WALLS SHALL HAVE VERT #5 BARS @ 48"OC MAX AT IN CENTER OF CMU, UNO.
 - ADDITIONAL VERT REINFORCING (COORDINATE W/ DETAILS):
 - EACH SIDE OF OPENINGS
 - WALL INTERSECTIONS
 - ENDS OF WALLS
 - EACH SIDE OF CONTROL JOINTS
 - AS NOTED AND DETAILED ON DRAWINGS
 - PROVIDE MATCHING DOWEL FOR VERT REINFORCING INTO FOUNDATION AND BOND BEAM AT ROOF
 - PROVIDE BOND BEAMS:
 - BOTTOM AND TOP OF OPENINGS
 - JOIST & DECK BEARING (CONTINUOUS)
 - TOP COURSE OF MASONRY WALLS
 - AS NOTED AND DETAILED ON DRAWINGS
 - HORIZ JOINT REINFORCING:
 - SHALL BE HOT DIPPED GALVANIZED 9 GAGE WIRE TRUSS OR LADDER TYPE
 - SPACED AT 16" ON CENTER (UNO)
 - MINIMUM STRAIGHT LAP = 16"
 - MINIMUM CORNER OR TEE LAP = 30"
 - SHALL BE FULLY EMBEDDED IN MORTAR WITH MINIMUM COVER 5/8" FROM FACE OF MORTAR
 - DISCONTINUE HORIZ REINFORCING AT CONTROL JOINTS
- MASONRY SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED.
- ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE LAP SPLICES, CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SEE MASONRY SPLICE LAP TABLE FOR MINIMUM MASONRY LAP SPLICE LENGTHS.
- AT FIRST COURSE OF MASONRY, PROVIDE FULL MORTAR BED EQUAL TO WALL THICKNESS EXCEPT AT CELLS TO BE GROUTED SOLID.
- UNITS TO RECEIVE VERT REINFORCING SHALL HAVE CELLS ALIGNED VERTICALLY FOR FULL HEIGHT OF REINFORCEMENT.
- FILL ALL MASONRY CELLS BELOW FINISHED FLOOR WITH GROUT. WHERE FINISHED FLOOR IS BELOW GRADE, FILL ALL CELLS BELOW GRADE.
- ALL ANCHOR BOLTS INTO MASONRY SHALL BE PLACED IN FULLY GROUTED CELLS. MIN EMBEDMENT = 4 1/4".
- PIPES OR CONDUITS MAY PENETRATE HORIZONTALLY THROUGH MASONRY WALLS BY MEANS OF A SCHEDULE 40 GALVANIZED STEEL SLEEVE SOLIDLY GROUTED IN PLACE. SLEEVE SIZE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. CENTER TO CENTER SLEEVE SPACING SHALL NOT BE LESS THAN 3 SLEEVE DIAMETERS.
- AFTER MORTAR IS THOROUGHLY SET AND CURED, CLEAN MASONRY COMPLETELY USING THE LEAST HARSH METHOD POSSIBLE.
- UNO, PROVIDE VERT CONTROL JOINTS MEETING THE FOLLOWING CRITERIA (REFER TO ARCH DRAWINGS FOR LOCATIONS):
 - LOCATED 28'-0" OC MAX
 - MAX 8'-0" FROM BUILDING CORNERS
 - NO CLOSER THAN 2'-0" TO OPENING EDGES
 - NO CLOSER THAN 1'-4" TO MAJOR BEAM OR JOIST BEARINGS

CMU REINF LAP LENGTH Fy=48,150; fm=1500 PSI	
BAR SIZE	SPLICE LENGTH
#3	19"
#4	25"
#5	31"
#6	57"
#7	70"
#8	99"

METAL STUD FRAMING NOTES:

- METAL STUD MANUFACTURER SHALL BE A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
 - METAL STUD STRENGTH CRITERIA:
 - GAGES 25 THROUGH 18 - 33 ksi MIN YIELD STRESS
 - GAGES 16 THROUGH 12 - 50 ksi MIN YIELD STRESS
 - RUNNER TRACK - 33 ksi MIN. YIELD STRESS
 - METAL STUD MEMBER DESIGNATION:

600 S	137 - 33	MILS	GA
		18	25
		27	22
		33	20
		43	18
		54	16
		68	14
		97	12
		118	10

WEB DEPTH: 600 = 6"
MEMBER TYPE: S = STUD, T = TRACK, U = CHANNEL, F = FURRING
FLANGE WIDTH: 137 = 1.37" (1 3/8")
MIN. THICKNESS IN MILS.
 - METAL STUDS AND ACCESSORIES SHALL HAVE A G60 GALVANIZED COATING UNLESS NOTED OTHERWISE
 - FASTENERS:
 - SCREW CONNECTIONS
 - FASTENING STUD TO STUD - USE #10-16 TRAXX3 x 5/8" LONG BY BUILDEX OR APPROVED EQUAL UNLESS OTHERWISE NOTED.
 - FASTENING STUD TO MASONRY - USE 1/2"ø TAPCON SCREWS BY ITW BUILDEX OR APPROVED EQUAL
 - MIN EMBEDMENT = 1"
 - MIN EDGE DISTANCE = 2"
 - MIN SPACING BETWEEN FASTENERS = 3"
 - POWDER DRIVEN FASTENERS (PDF):
 - FASTENING TO CONCRETE OR MASONRY - USE 0.145"ø DOME HEAD NAIL TYPE "X-2F" BY HILTI OR APPROVED EQUAL OR UNLESS NOTED OTHERWISE.
 - MIN EMBEDMENT = 1 1/4"
 - MIN EDGE DISTANCE = 2"
 - MIN SPACING BETWEEN FASTENERS = 3"
 - FASTENING TO STEEL - USE 0.145"ø DOME HEAD KNURLED SHANK FASTENER TYPE "X-EDN" BY HILTI OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
 - MIN EMBEDMENT = FULL PENETRATION
 - MIN EDGE DISTANCE = 1/2"
 - MIN SPACING BETWEEN FASTENERS = 1"
 - FASTENING - MINIMUM FASTENING REQUIREMENTS, UNLESS NOTED OTHERWISE
 - TRACK TO CONCRETE - HILTI SDF PINS OR EQUAL AT 8" OC
 - TRACK TO STRUCTURAL STEEL - HILTI ESD PINS OR EQUAL AT 12" OC
 - TRACK TO STUD AND STUD TO STUD - BUILDEX #10-16 TRAXX OR EQUAL PER MANUFACTURER'S RECOMMENDATION. (3 SCREWS MINIMUM)
 - STUD TO STEEL OR CONCRETE - USE POWDER DRIVEN FASTENERS REFERENCED ABOVE. SEE DETAILS FOR CONNECTIONS (MINIMUM 2 FASTENERS)
- LOADBEARING WALLS
 - STUDS SHALL BE FULLY SEATED IN THE BOTTOM TRACK WITH A MAXIMUM 1/16" GAP IN THE PRE-LOADED CONDITION.
 - CONTRACTOR SHALL ALIGN VERTICAL STUDS IN LOADBEARING WALLS WITH THE FLOOR JOISTS ABOVE.
 - LOADBEARING WALL STUDS SHALL BE BRACED BY ONE OF THE FOLLOWING METHODS:
 - COLD ROLLED CHANNEL - RUN HORIZONTALLY THROUGH STUD PUNCHOUTS AND ATTACHED AT EACH STUD.
 - 2" WIDE 18 GAGE STEEL STRAPS - RUN HORIZONTALLY, ON BOTH SIDES OF THE STUDS, AND ATTACHED AT EACH STUD.
 - VERTICAL SPACING OF THE BRACING IS LIMITED TO A MAXIMUM OF 4'-0" THROUGHOUT THE HEIGHT OF THE WALL.
- JOISTS SHALL BE FABRICATED TO PROVIDE 12" OF UNPUNCHED WEB AT BEARING ENDS.
- PROVIDE JOIST WEB STIFFENERS PER METAL STUD MANUFACTURERS' RECOMMENDATIONS AT BEARING POINTS.
- PROVIDE END BLOCKING WHERE JOISTS ARE NOT RESTRAINED AGAINST ROTATION.
- CURTAINWALL and NON-LOADBEARING PARTITIONS
 - MECHANICAL BRACING OF STUDS IS NOT NECESSARY WHERE WALL SHEATHING IS ATTACHED ON BOTH SIDES OF THE STUDS.
 - WHEN ONLY ONE FACE OF THE STUDS RECEIVE SHEATHING, PROVIDE BRACING BY ONE OF THE FOLLOWING METHODS:
 - COLD ROLLED CHANNEL - RUN HORIZONTALLY THROUGH STUD PUNCHOUTS AND ATTACHED AT EACH STUD
 - 2" WIDE 18 GAGE STEEL STRAPS - RUN HORIZONTALLY, ON BOTH SIDES OF THE STUDS, AND ATTACHED AT EACH STUD.
 - VERTICAL SPACING OF THE BRACING IS LIMITED TO A MAX OF 4'-0" FOR THE HEIGHT OF THE WALL.
- PROVIDE ALL ACCESSORIES AS REQUIRED BY THE METAL STUD MANUFACTURER .

SHOP DRAWING NOTES:

- CONTRACTOR SHALL FURNISH COMPLETE AND DETAILED SHOP DRAWINGS FOR THE FOLLOWING:
 - STRUCTURAL STEEL
 - MISCELLANEOUS METAL
 - STEEL JOISTS, GIRDERS, AND METAL DECK
 - CONCRETE MIX DESIGN
 - LIGHT GAUGE METAL ROOF TRUSSES
 - PRE-ENGINEERED AWNINGS / CANOPIES
- SHOP DRAWINGS SHOULD BE TRANSMITTED ELECTRONICALLY. ENGINEER WILL REVIEW & RETURN SHOP DRAWINGS WITH COMMENTS WITHIN 10 WORKING DAYS FROM TIME OF RECEIPT.
- UNLESS NOTED, SUBMIT SHOP DRAWINGS FOR ALL FABRICATED MATERIALS. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY ARE STAMPED "APPROVED" BY THE GENERAL CONTRACTOR.
- SHOP DRAWINGS FOR TRUSSES AND OTHER ITEMS DESIGNATED AS "DESIGNED BY OTHERS" OR "PRE-ENGINEERED" SHALL BE SEALED BY THE COMPONENT DESIGN ENGINEER OF RECORD PRIOR TO SUBMITTAL FOR REVIEW. ALL PRE-ENGINEERED TRUSS 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.
- THE CONTRACTOR SHALL HAVE AN APPROVED SET OF ALL SHOP DRAWINGS AND PROOF OF WELDER CERTIFICATION AT THE JOBSITE AT ALL TIMES.

PRESSURE TREATED LUMBER NOTE:

- ALL FASTENERS USED WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL. ALL SIMPSON CONNECTORS USED WITH PRESSURE TREATED LUMBER SHALL BE "ZMAX" COATED AS A MINIMUM.

ABBREVIATIONS			
A.B. AFF ARCH	ANCHOR BOLT ABOVE FINISHED FLOOR ARCHITECT	MAS. MAX MFR. MIN.	MASONRY MAXIMUM MANUFACTURER MINIMUM
B. BM. BOTT BLDG. BLDG.	BOTTOM OF BEAM BOTTOM BLOCKING BUILDING	MISC. M.O. MTL.	MISCELLANEOUS MASONRY OPENING METAL
CJ. CLR. CMU. COL. CONC. CONT. CONST. CONTR. COORD. CTR.	CONTROL/CONSTRUCTION JOINT CENTER LINE CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS CONSTRUCTION CONTRACTOR COORDINATE CENTER	N.A. N/A N.I.C. N.T.S.	NOT APPLICABLE NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE
DET. DIA. DN. DIM. DWG.	DETAIL DIAMETER DOWN DIMENSION DRAWING	O.C. O.D. O.H. OPNG. OPP.	ON CENTER OUTSIDE DIAMETER OPPOSITE HAND OPENING OPPOSITE
EA. E.J. ELEV. E.W. EXIST.	EACH EXPANSION JOINT ELEVATION EACH WAY EXISTING	PDF. P.F. PLYWD. PREFAB. P.T. PTD.	POWER DRIVEN FASTENER PREMOLED JOINT FILLER PLATE PLYWOOD PREFABRICATED PRESSURE TREATED PAINTED
F.F. FIN. FLR. FT. FTG. F.V.	FINISH FLOOR FINISH FLOOR FOOT FOOTING FIELD VERIFY	RAD. REINF. RECD.	RADIUS REINFORCING REQUIRED
GA. GALV. G.C. GDR.	GAUGE GALVANIZED GENERAL CONTRACTOR GIRDER	SECT. SH. SIM. SPCS. SQ. STD. STL. STRUC. S.W.	SECTION SHEET SIMILAR SPACES SQUARE STANDARD STEEL STRUCTURAL SHORT WAY
HT. HORIZ.	HEIGHT HORIZONTAL	T/ THK. TYP	TOP OF THICK TYPICAL
JST. JT.	JOIST JOINT	U.N.O.	UNLESS NOTED OTHERWISE
KB.	KNEE BRACE	VERT.	VERTICAL
LG. LLH. LLV. LW.	LONG LONG LEG HORIZONTAL LONG LEG VERTICAL LONG WAY	WD. WF. WWF. WWM. W. W. WP.	WOOD WIDE FLANGE WELDED WIRE FABRIC WELDED WIRE MESH WITH WITHOUT WORK POINT

OCONEE ENGINEERING L.L.C.
 ATTORNEYS AT LAW
 2610 Bowdoin Pond Road
 Greensboro, GA 30642
 P: (770) 313-0902
 e-mail: raj@oconeeengineering.com



R.L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOCC RFP #24-04
 8134 GEIGER STREET, COVINGTON, GA
 FOR: SUNBELT BUILDERS

DESIGNED:	DRAWN:	CHECKED:	APPROVED:
FILE NAME: 024007-S-CORE16	ORIGINAL DRAWING SIZE: 36"x24"	DATE: 2-20-2025	
© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS IS PROHIBITED. ANY ALTERATIONS TO THIS DRAWING MUST BE AUTHORIZED BY WRITTEN ORDER FROM OCONEE ENGINEERING, L.L.C.			
1	2-20-2025	ISSUE FOR CONSTRUCTION	MARK
	1-24-2024	ISSUE FOR PRICING	DATE
			BY
			DESCRIPTION

STRUCTURAL SPECIFICATIONS

S-0.2
 SHEET 2 OF 12

BRAVO BLDG SET 04-21-2025

SCHEDULE OF SPECIAL INSPECTION SERVICES					SCHEDULE OF SPECIAL INSPECTION SERVICES						
APPLICABLE TO THIS PROJECT					APPLICABLE TO THIS PROJECT						
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED	MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED
1704.2.5 Inspection of Fabricators						Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.	Field inspection	Y	Level 1 - Periodic Level 2 - Continuous		
Verify fabrication/quality control procedures. (May be waived by building official.)	In-plant review	Y	Periodic								
1705.2 Steel Construction						Verify size, grade, and type of reinforcement.	Field inspection	Y	Periodic		
Material verification of high-strength bolts, nuts, and washers.	Review material markings and certificates of compliance	Y	Periodic			Verify welding of reinforcing bars.	Field inspection	Y	Continuous		
Inspection of high-strength bolting:	Field inspection					Verify protection of masonry during hot/cold weather.	Field inspection	Y	Periodic		
a. Bearing-type connections		Y	Periodic			Verify grout space is clean prior to grouting.	Field inspection	Y	Continuous		
b. Pre-tensioned or slip-critical						Verify grout placement complies with code and construction document provisions.	Field inspection	Y	Continuous		
1) Turn-of-nut with matching markings		Y	Periodic			Observe preparation of grout specimens, mortar specimens, and/or prisms.	Field inspection	Y	Continuous		
2) Direct tension indicator		Y	Periodic			Verify compliance with required testing provisions of construction documents and the approved submittals.	Field inspection	Y	Periodic		
3) Twist-off bolt		Y	Periodic			Verify grade and size of prestressing tendons and anchorages.	Field inspection	N	Periodic		
4) Turn-of-nut without matching markings		Y	Continuous			Verify proper grouting of prestressing tendons.	Field inspection	N	Continuous		
5) Calibrated wrench		Y	Continuous			Verify application and measurement of prestressing force	Field inspection	N	Continuous		
Material verification of structural steel:						1705.6 Soils					
a. Identification markings	Field inspection	Y	Periodic			Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic		
b. Certified mill tests	Review submittals	Y	Each submittal			Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic		
Weld filler materials.	Review certificate of compliance and field verification	Y	Periodic and each submittal			Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic		
Structural steel welding:	Shop and field inspection					Verify site preparation complies with approved soils report.	Field inspection	Y	Continuous		
a. Complete and partial penetration groove welds		Y	Continuous			Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous		
b. Multi-pass fillet welds		Y	Continuous			Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic		
c. Single-pass fillet welds > 5/16"		Y	Continuous			Verify dry-density of compacted fill complies with approved soils report.	Review field testing	Y	Periodic		
d. Single-pass fillet welds < 5/16"		Y	Periodic								
e. Floor and deck welds		Y	Periodic								
Reinforcing steel welding:	Shop and field inspection										
a. Verification of weldability of steel other than ASTM A 706		Y	Periodic								
b. Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special concrete shear walls, and shear reinforcement		N	Continuous								
c. Shear reinforcement		Y	Continuous								
d. Other reinforcing steel		Y	Periodic								
Inspection of steel frame joint details for compliance with approved construction documents.	Field inspection										
a. Details such as bracing & stiffening		Y	Periodic								
b. Member locations		Y	Periodic								
c. Application of joint details at each connection		Y	Periodic								
1705.3 Concrete Construction											
Inspection of reinforcing steel installation.	Field inspection	Y	Periodic								
Inspection of prestressing steel installation.	In-plant or field review	N	Periodic								
Inspection of prestressed concrete:	In-plant or field review										
a. Application of prestressing force		N	Continuous								
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system		N	Continuous								
Inspection of cast-in-place bolts prior to and during placement of concrete where allowable loads have been increased per IBC section 1908.4.	Field inspection	Y	Continuous								
Verification of required design mix.	Review submittals	Y	Periodic								
Fresh concrete sampling.	Field testing	Y	Continuous								
Inspection of concrete and shotcrete placement for proper application techniques	Field review	Y	Continuous								
Concrete curing operations.	Field review	Y	Periodic								
Erection of precast concrete members.	Field review	N	Periodic								
Evaluation of concrete strength.	Field testing and review of laboratory reports	Y	Periodic								
Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Review field testing and laboratory reports	N	Periodic								
Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic								
1705.4 Masonry Construction											
Verify proportions of site prepared mortar, grout and prestressing grout for bonded tendons.	Field and submittal review	Y	Periodic								
Verify construction of mortar joints.	Field inspection	Y	Periodic								
Verify location of reinforcement and connectors, and placement of prestressing tendons and anchorages.	Field inspection	Y	Periodic								
Verify prestressing technique	Field inspection	N	Periodic								
Verify size and location of structural masonry elements.	Field and submittal review	Y	Periodic								

BRAVO BLDG SET 04-21-2025

DEFINITIONS REGARDING SPECIAL INSPECTIONS

AGENTS OF THE SPECIAL INSPECTOR (AGENTS) - QUALIFIED INDIVIDUALS OR FIRMS WORKING UNDER THE DIRECTION OF THE SPECIAL INSPECTOR WHO ARE PROVIDING THE INSPECTIONS AND TESTS NECESSARY TO COMPLETE THE SPECIAL INSPECTION PROCESS.

APPROVED FABRICATOR - A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD, TO PERFORM WORK OFF SITE WITHOUT SPECIAL INSPECTION. THE APPROVAL IS BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUAL AND PERIODIC AUDITING OF FABRICATIONS PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY.

1. IF AN APPROVED FABRICATOR IS NOT USED, THEN THE SHOP FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL REQUIRE SPECIAL INSPECTION OF THE SHOP QUALITY CONTROL PROCEDURES PER SECTION 1704 OF THE IBC. FABRICATION EXAMPLES INCLUDE SHOP WELDING AND BOLTING AND THE ASSEMBLY OF PRE-ENGINEERED TRUSSES.

BUILDING OFFICIAL - THE OFFICER OR OTHER DESIGNATED AUTHORITY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE BUILDING CODE OR A DULY AUTHORIZED REPRESENTATIVE WHO HAS THE LEGAL AUTHORITY TO SEE THAT ALL OF THE PROVISIONS OF THE SPECIAL INSPECTION PROCESS ARE CARRIED OUT.

FABRICATED ITEM - STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING ASSEMBLIES CONSISTING OF MATERIALS ASSEMBLED PRIOR TO INSTALLATION IN A BUILDING OR STRUCTURE, OR SUBJECTED TO OPERATIONS SUCH AS HEAT TREATMENT, THERMAL CUTTING, COLD WORKING OR REFORMING AFTER MANUFACTURE AND PRIOR TO INSTALLATION IN A BUILDING OR STRUCTURE. MATERIALS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS REFERENCED BY THE IBC, SUCH AS ROLLED STRUCTURAL STEEL SHAPES, STEEL REINFORCING BARS, MASONRY UNITS AND PLYWOOD SHEETS, SHALL NOT BE CONSIDERED "FABRICATED ITEMS".

FINAL REPORT OF SPECIAL INSPECTIONS - A REPORT SUBMITTED TO THE BUILDING OFFICIAL AFTER CONSTRUCTION IS COMPLETE WHICH INCLUDES A STATEMENT THAT THE INSPECTIONS INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS HAVE BEEN COMPLETED, AND A LISTING OF UNRESOLVED DISCREPANCIES. THIS REPORT IS SIGNED BY THE SPECIAL INSPECTOR.

SPECIAL INSPECTIONS - BUILDING CODE REQUIRED INSPECTIONS AND TESTS OF THE MATERIALS, FABRICATION, INSTALLATION OF ITEMS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONTRACT DOCUMENTS AND REFERENCED STANDARDS.

SPECIAL INSPECTION AGENCY - THE ACCREDITED INSPECTION COMPANIES APPROVED BY THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD TO PERFORM SPECIAL INSPECTION AS REQUIRED BY THE BUILDING CODE AND THE PROJECT SPECIFICATIONS AND AS DESCRIBED IN SECTION 1704 OF THE 2018 INTERNATIONAL BUILDING CODE.

SPECIAL INSPECTOR (SI) - THE INDIVIDUAL OR FIRM RESPONSIBLE FOR COORDINATION OF THE SPECIAL INSPECTION PROGRAM AND TO WHOM ALL INSPECTION AND TESTING REPORTS ARE SENT.

STATEMENT OF SPECIAL INSPECTIONS - A DOCUMENT THAT OUTLINES THE SPECIAL INSPECTION REQUIREMENTS FOR THE PROJECT BEING PERMITTED. THE STATEMENT OF SPECIAL INSPECTIONS SHOULD BE FILED WITH THE BUILDING OFFICIAL PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

ENGINEER OF RECORD (EOR) - THE STRUCTURAL ENGINEER WHO IS LEGALLY RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.

TESTING AGENCY - AN APPROVED INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE BUILDING OFFICIAL WHOSE ACTIVITIES ARE COORDINATED BY THE SPECIAL INSPECTOR.

CONTINUOUS SPECIAL INSPECTION - THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

PERIODIC SPECIAL INSPECTION - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

OCONEE ENGINEERING L.L.C.
 ALLEN, GA
 LAKE OCONLE
 2610 Bowdoin Pond Road
 Greensboro, GA 30642
 P: (770) 313-0902
 e-mail: rajp@oconeeengineering.com



STATE OF GEORGIA
 REGISTERED PROFESSIONAL ENGINEER
 RALPH H. BOSWELL
 No. 27855
 2/20/2025

R.L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC REP #24-04
 8134 GEGER STREET, COVINGTON, GA
 FOR: SUNBELT BUILDERS

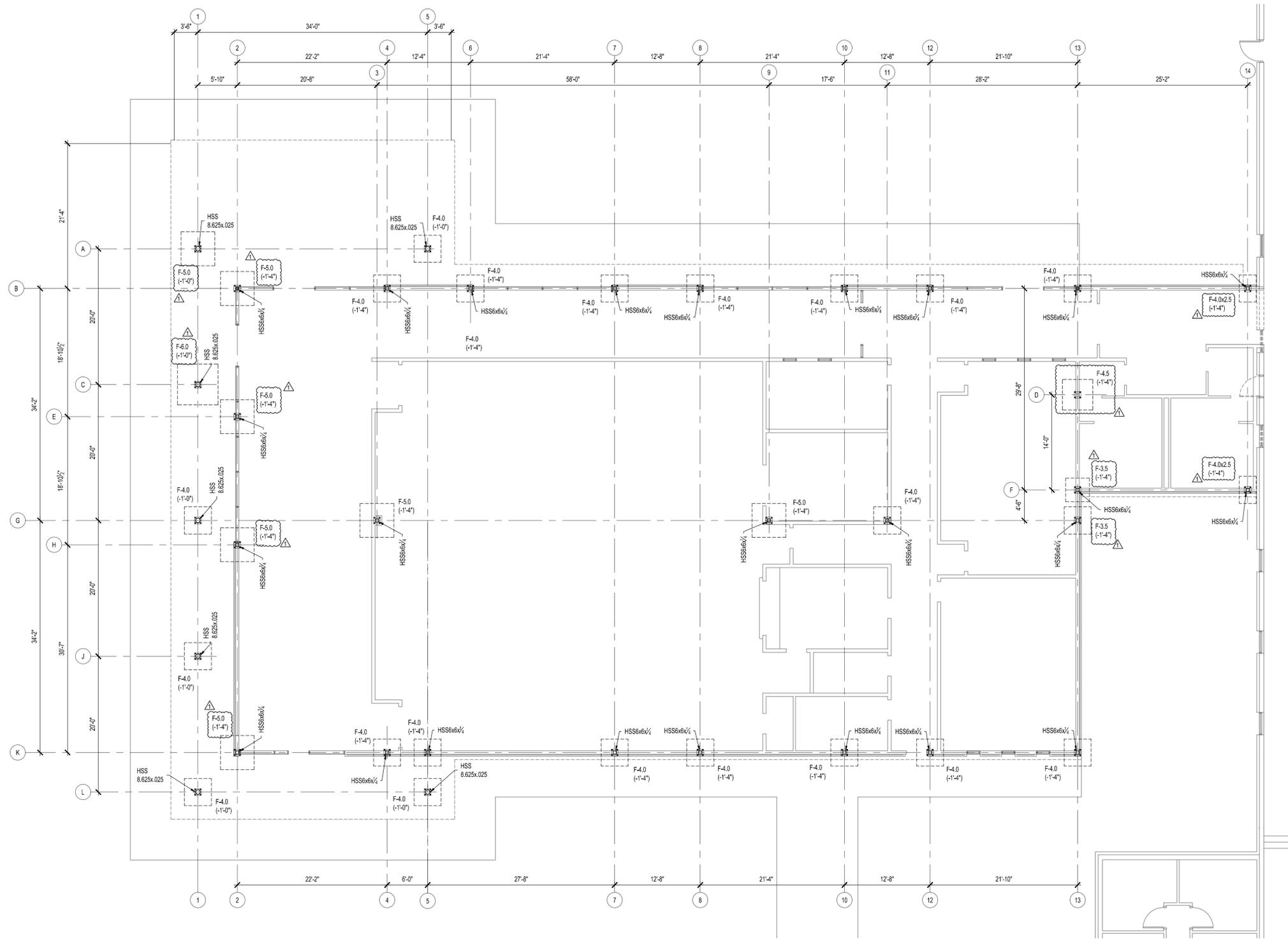
MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/4/2024		ISSUE FOR PROLOG
	4/22/2024		ISSUE FOR PROLOG

DESIGNED: CE 24007
 FILE NAME: 0224007-S-CORE16
 DRAWN: 0224007-S-CORE16
 ORIGINAL DRAWING SIZE: 36"x24"
 CHECKED:
 APPROVED:
 DATE: 2-20-2025

© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS IS PROHIBITED. ANY ALTERATIONS TO THIS DRAWING MUST BE AUTHORIZED BY THE ENGINEER OF RECORD.
 OCOONEE ENGINEERING, L.L.C.

SPECIAL INSPECTIONS

PLOTTED BY: RAJ P. BOSWELL DATE: February 21, 2025 10:58 AM | DRAWING FILE: C:\Users\rajp\OneDrive\Documents\BRAVO\0224007-S-CORE16.dwg | LAST MODIFIED: Henry | February 21, 2025 12:26:43 PM
 SHEET: 0224007-S-CORE16.dwg | PLOTTED BY: RAJ P. BOSWELL DATE: February 21, 2025 10:58 AM | DRAWING FILE: C:\Users\rajp\OneDrive\Documents\BRAVO\0224007-S-CORE16.dwg | LAST MODIFIED: Henry | February 21, 2025 12:26:43 PM



FOUNDATION NOTES

- FFE = AS SHOWN ON PLAN.
- STEP FOOTINGS DOWN BELOW MECHANICAL, ELECTRICAL, OR PLUMBING LINES AS REQUIRED TO AVOID INTERFERENCE. SEE TYP FOOTING STEP DETAIL. COORDINATE W/ OTHER TRADES. PROVIDE PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.
- WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.

CONC SLAB NOTES

- FLOOR SLAB & SIDEWALKS SHALL BE 4" THICK CONC REINF W/ 6x6-W1.4xW1.4 WWF @ CENTER OF SLAB (UNLESS NOTED OTHERWISE). SEE PLAN FOR FINISHED FLOOR ELEVATIONS. (REFER TO ARCHITECTURAL DRAWINGS FOR SIDEWALK, PLANTER, & PAVER LOCATIONS & DETAILS.
- PROVIDE 4" THICK GRADED AGGREGATE BASE & 10 MIL. POLYETHYLENE MOISTURE BARRIER UNDER INTERIOR FLOOR SLAB. LAP JOINTS OF MOISTURE BARRIER 6" MIN & TAPE JOINTS.
- CONDUITS & PIPES EMBEDDED IN SLABS:
 - SHALL NOT BE LARGER IN OUTSIDE DIM THAN 1/2 THE OVERALL THICKNESS OF SLAB.
 - SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - MIN SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

FOOTING SCHEDULE

MARK	SIZE	THK	REINF	BASE PL
F-2.0	2'-0"x2'-0"	12"	(3)#4 EW, BOT	12"x12"x1/2"
F-3.0	3'-0"x3'-0"	12"	(3)#5 EW, BOT	12"x12"x1/2"
F-3.5	3'-6"x3'-6"	12"	(4)#5 EW, BOT	12"x12"x1/2"
F-4.0	4'-0"x4'-0"	12"	(5)#5 EW, BOT	12"x12"x1/2"
F-4.5	4'-6" x 4'-6"	12"	(6)#5 EW, BOT	12"x12"x1/2"
F-5.0	5'-0"x5'-0"	12"	(6)#5 EW, BOT	12"x12"x1/2"
F-4.0x2.5	4'-0"x2'-6"	12"	(4)#5 EW, BOT	12"x12"x1/2"
F-6.0	6'-0"x6'-0"	18"	(8)#5 EW, BOT	12"x12"x1/2"

* SEE DETAILS FOR BASE PLATES ON TOP OF FOUNDATION WALLS OR PIERS *

F-_____ = FOOTING SIZE. SEE FOOTING SCHEDULE FOR SIZE & REINF. REQUIREMENTS
 (-X'-X") = TOP OF FOOTING DISTANCE BELOW FINISHED FLOOR ELEVATION

OCONEE ENGINEERING L.L.C.
 ATTORNEYS AT LAW
 2610 Bowdoin Pond Road
 Greensboro, GA 30642
 P: (770) 313-0902
 e-mail: ralph@oconeeengineering.com

REGISTERED PROFESSIONAL ENGINEER
 STATE OF GEORGIA
 No. 27855
RALPH H. BOSWELL
 2/20/2025

R.L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOCC REP #24-04

8134 GEIGER STREET, COVINGTON, GA

FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/4/2024		ISSUE FOR PRICING
	4/22/2024		ISSUE FOR PRICING

DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 APPROVED: _____
 DATE: 2-20-2025

© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED. ANY ALTERATIONS TO THIS DRAWING MUST BE AUTHORIZED IN WRITING BY OCONEE ENGINEERING, L.L.C.

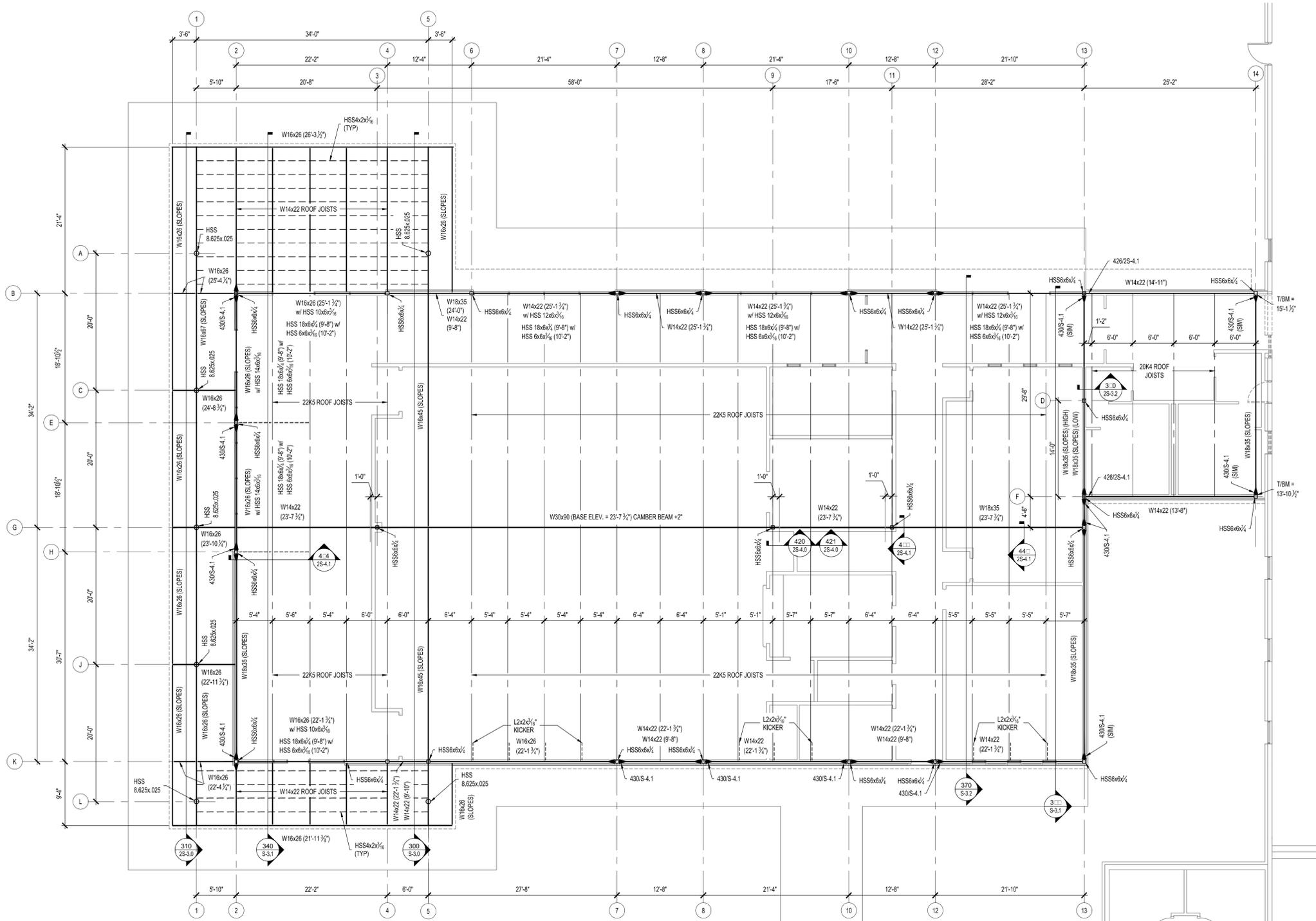
PHASE TWO FOUNDATION PLAN

2S-1.0
 SHEET 1 OF 12

100 FOUNDATION PLAN
 1/8"=1'-0"

BRAVO BLDG SET 04-21-2025

PLOTTED BY: RAJAN BISHNELL DATE: February 21, 2025 10:14 AM DRAWING FILE: C:\Users\rajansh\OneDrive\Documents\BRAVO\SCORE\Bldg Set 04-21-2025\100.dwg
 PLOT DATE: February 21, 2025 10:14 AM PLOT SCALE: 1/8"=1'-0" PLOT SHEET: 2 OF 12



200 ROOF FRAMING PLAN
1/8"=1'-0"

ROOF FRAMING NOTES:

- PROVIDE ROOF DECK SUPPORT L3"x3"x1/2" OR AS SHOWN ON DETAILS AT JOIST BEARING EDGES OF ROOF DECK PERIMETER. WELD ANGLE TO EACH JOIST TOP CHORD. LOCATE JOINTS IN CONTINUOUS ANGLE AT JOIST LOCATIONS. WELD ANGLE TO ANGLE AND ANGLE TO JOIST.
- ROOF TOP UNIT CURBS SHALL BEAR ON STEEL FRAMING PER DETAIL 427. ROOF TOP UNIT SIZES AND DIMENSIONS TO BE COORDINATED WITH MECHANICAL SUPPLIER.
- DECK WELD PATTERN SHALL BE 3/8"x4" WITH 4 SIDELAP FASTENERS PER SPAN UNLESS NOTED OTHERWISE. SEE DETAIL 440.

BEAM (X'-X") - NUMBER IN PARENTHESIS INDICATES TOP OF BEAM/CHANNEL AS MEASURED FROM LOWER FINISHED FLOOR

X.X.K - INDICATES ADDITIONAL LOADING TO JOIST OR BEAM. FORCES INDICATED ARE ASD LOADS.

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 REGISTERED IN THE STATE OF GEORGIA AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

SHOP DRAWINGS FOR THE FOLLOWING BUILDING COMPONENTS NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS APPROVED FOR BUILDING PERMIT SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SUBMITTED TO MUNICIPAL BUILDING PLAN REVIEW FOR REVIEW AFTER APPROVAL BY THE PROJECT ENGINEER-OF-RECORD:
1) AWNINGS / CANOPIES

BOTTOM OF ALL FOUNDATIONS SHALL EXTEND A MINIMUM OF 12" BELOW TO OF FINISHED GRADE.

PROVIDE MINIMUM 10 MIL. POLYETHYLENE MOISTURE BARRIER WITH JOINTS TAPED AND LAPPED NOT LESS THAN 6". PROVIDE MOISTURE BARRIER DIRECTLY BENEATH ALL INTERIOR CONCRETE SLABS ON GRADE.

THE DESIGN OF CONCRETE STRUCTURAL ELEMENTS, INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2009 SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1-10. STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

OCONEE ENGINEERING L.L.C.
ATTORNEYS AT LAW
2610 Bowdoin Pond Road
Greensboro, GA 30642
P: (770) 313-0902
e-mail: ralph@oconeeengineering.com



R.L. COUSINS COMMUNITY CENTER
NEWTON CO. BOCC RFP #24-04
8134 GEIGER STREET, COVINGTON, GA
FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/8/2024		ISSUE FOR PERMITS
	4/22/2024		ISSUE FOR PROLOG

DESIGNED:	DRAWN:	CHECKED:	APPROVED:
CE PROJECT NO.: 0E24007	FILE NAME: 0E24007-S-CORE16	ORIGINAL DRAWING SIZE: 36"x24"	DATE: 2-20-2025

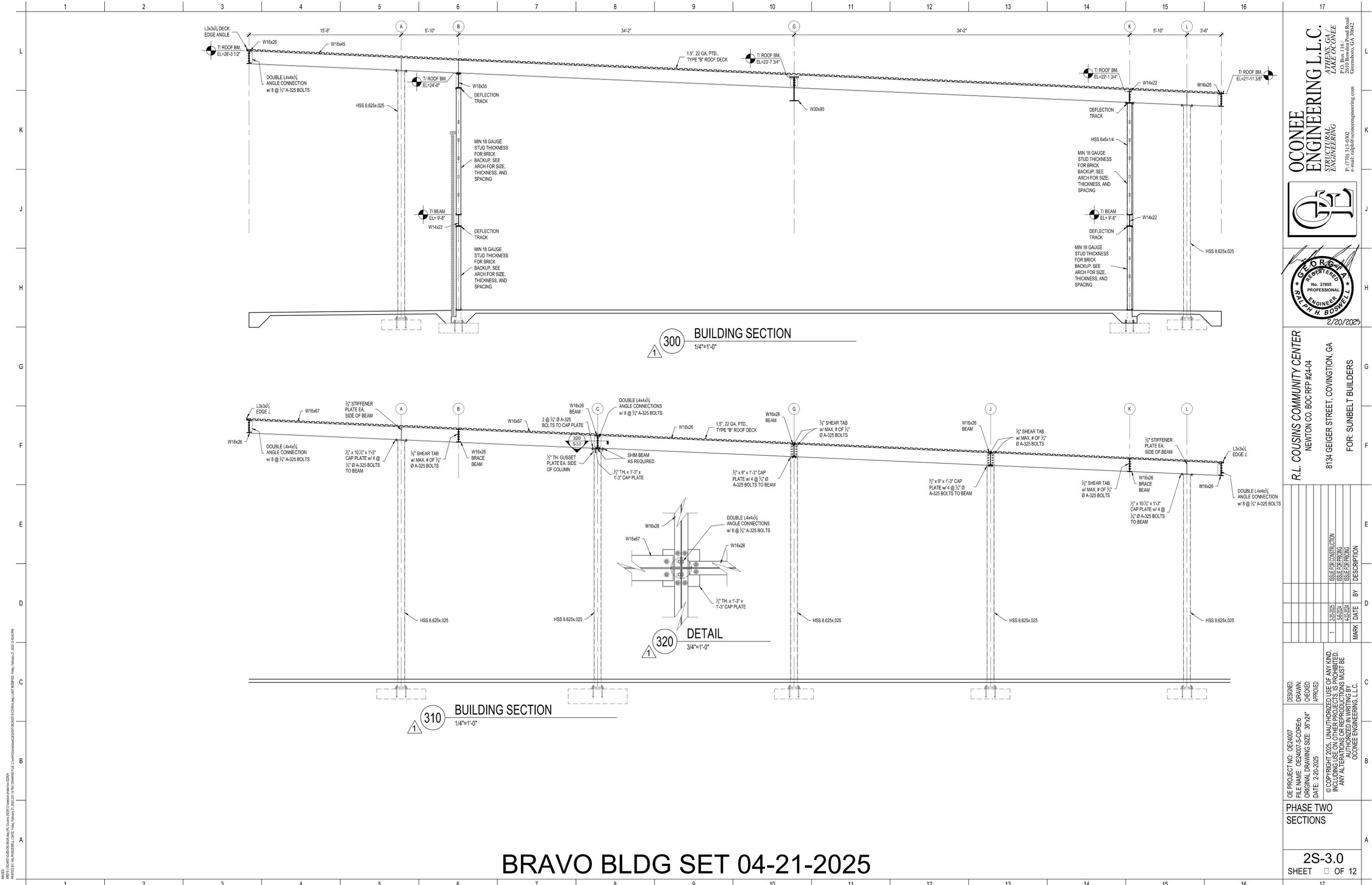
© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED. ANY ALTERATIONS TO THIS DRAWING MUST BE AUTHORIZED IN WRITING BY OCONEE ENGINEERING, L.L.C.

PHASE TWO ROOF FRAMING PLAN

2S-1.1
SHEET 7 OF 12

BRAVO BLDG SET 04-21-2025

PLANS: SHEET 0E24007-S-CORE16.dwg (R. Cousins 2025) saved on 2/20/25 12:04:14 PM
PLOT: BRAVO BLDG SET 04-21-2025 2/20/25 12:04:14 PM
PRINTED BY: RAHPH BOSWELL (DATE: 2/20/25 12:04:14 PM) DRAWING FILE: C:\Users\rahp\OneDrive\Documents\BRAVO BLDG SET 04-21-2025\0E24007-S-CORE16.dwg (LAST MODIFIED: 2/20/25 12:04:14 PM)



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

320 DETAIL
3/4"=1'-0"

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

BRAVO BLDG SET 04-21-2025

OCONEE ENGINEERING L.L.C.
 ATTN: RALPH BOSWELL
 2610 Bowdoin Pond Road
 Greensboro, GA 30642
 P: (770) 313-0902
 e-mail: ralph@oconeeengineering.com



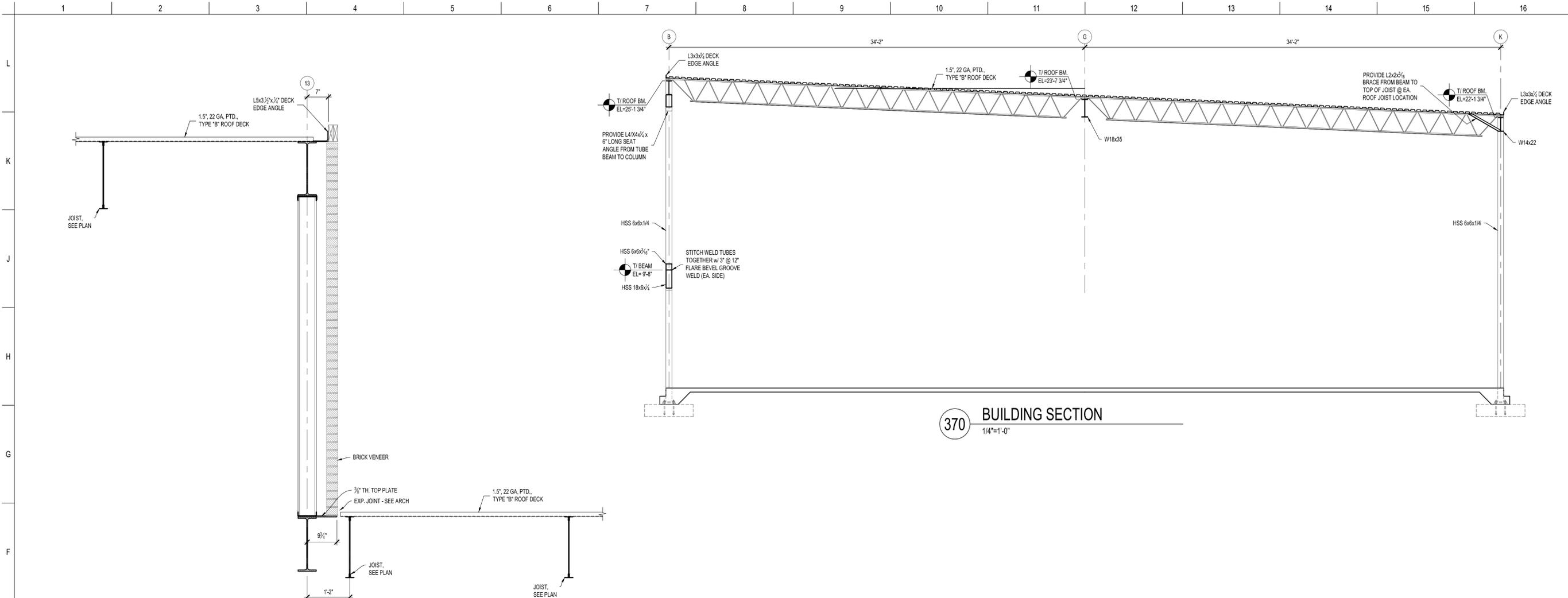
R.L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOCC REP #24-04
 8134 GEIGER STREET, COVINGTON, GA
 FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/4/2024		ISSUE FOR PROLOG
	4/22/2024		ISSUE FOR PROLOG

DESIGNED: CE24007
 FILE NAME: 0E24007-S-CORE16
 ORIGINAL DRAWING SIZE: 36"x24"
 DATE: 2-20-2025
 DRAWN:
 CHECKED:
 APPROVED:
 © COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED. ANY ALTERATION TO THIS DRAWING MUST BE AUTHORIZED BY WRITING FROM OCONEE ENGINEERING, L.L.C.

PHASE TWO SECTIONS

P:\2025\BRAVO BLDG SET 04-21-2025\2025-04-21-2025-01.dwg
 PLOTTED BY: RALPH BOSWELL DATE: Friday, February 21, 2025 10:14 AM
 C:\Users\ralphboswell\AppData\Local\Temp\2025-04-21-2025-01.dwg
 LAST MODIFIED: Friday, February 21, 2025 12:04:14 PM



380 WALL SECTION
3/4"=1'-0"

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

OCONEE ENGINEERING L.L.C.
 ALLEN, GA
 LAKE OCONLE
 2610 Bowdoin Pond Road
 Greensboro, GA 30642
 P: (770) 313-0902
 e-mail: ralph@oconeeengineering.com



R.L. COUSINS COMMUNITY CENTER
 NEWTON CO. BOC REP #24-04
 8134 GEIGER STREET, COVINGTON, GA
 FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/4/2024		ISSUE FOR PRICING
	4/2/2024		ISSUE FOR PRICING

DESIGNED: OE PROJECT NO. OE24007
 DRAWN: FILE NAME: OE24007-S-CORE16
 CHECKED: ORIGINAL DRAWING SIZE: 36"x24"
 APPROVED: DATE: 2-20-2025

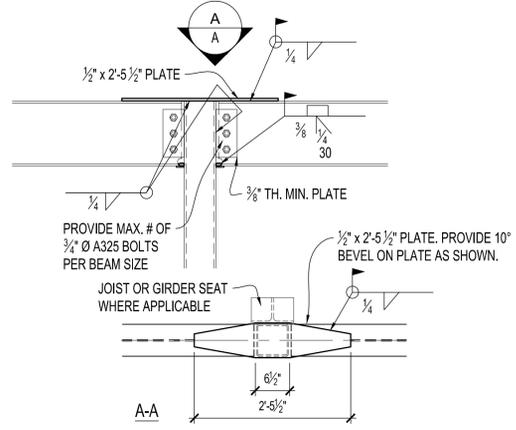
© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED. ANY ALTERATIONS TO THIS DRAWING MUST BE AUTHORIZED IN WRITING BY OCONEE ENGINEERING, L.L.C.

PHASE TWO SECTIONS

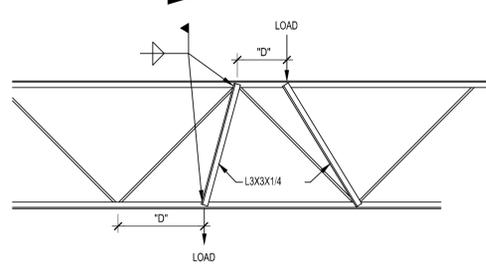
2S-3.2
 SHEET 10 OF 12

BRAVO BLDG SET 04-21-2025

PLOTTED BY: RAHPH BOSWELL DATE: February 21, 2025 10:14 AM DRAWING FILE: C:\Users\rahp\OneDrive\Documents\24007\24007-S-CORE16.dwg LAST MODIFIED: Henry February 21, 2025 12:48:14 PM
 PAGES: SHEET 10 OF 12

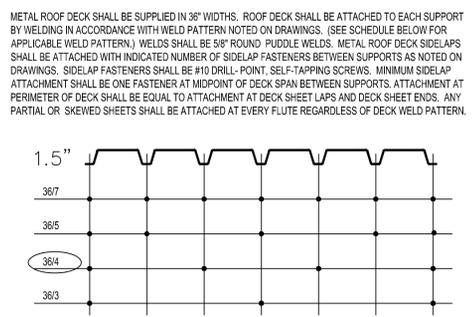


430 MOMENT CONNECTION
N.T.S.
DENOTES MOMENT CONNECTION

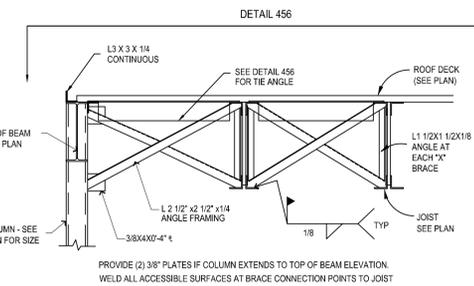


WHERE DIMENSION "D" IS GREATER THAN 6" AND THE CONCENTRATED LOAD IS GREATER THAN 100#, THE JOIST MUST BE REINFORCED BY FIELD APPLYING AN L3X3X1/4 WEB MEMBER ON THE JOIST FROM THE POINT OF THE LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD.

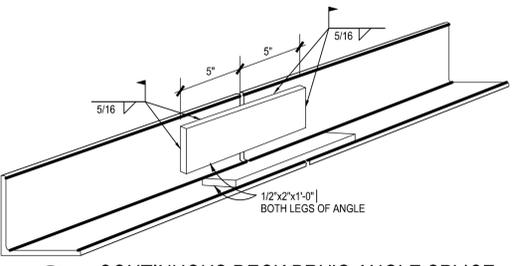
452 JOIST REINFORCING DETAIL
N.T.S.



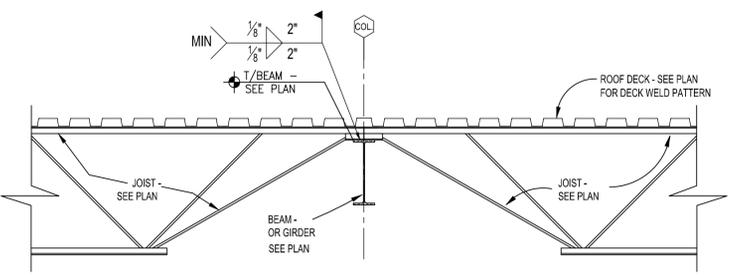
440 ROOF DECK ATTACHMENT DETAIL
N.T.S.



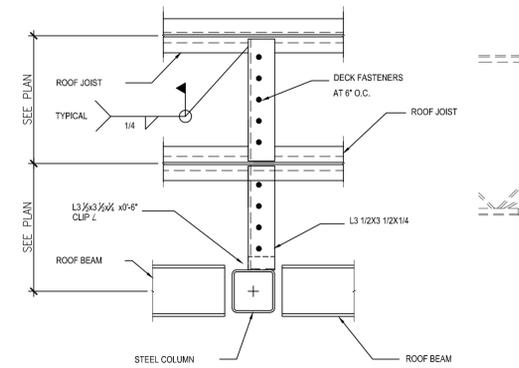
454 COLUMN "X" BRACING
N.T.S.



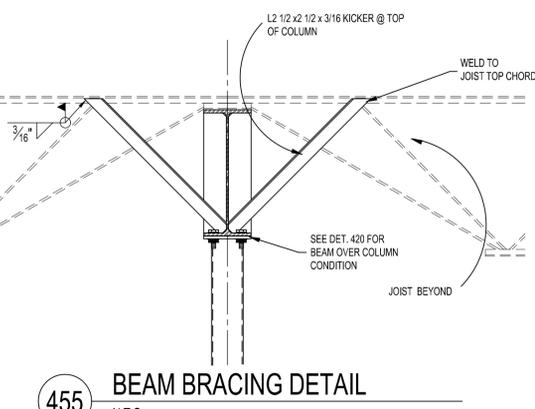
442 CONTINUOUS DECK BRN'G ANGLE SPLICE
N.T.S.



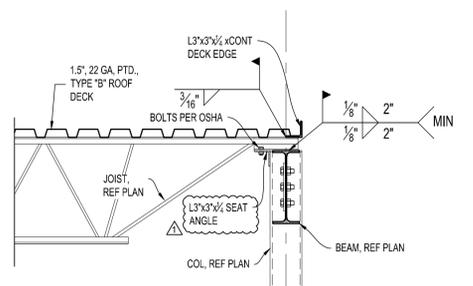
446 ROOF / FLOOR JST BRN'G DETAIL
N.T.S.



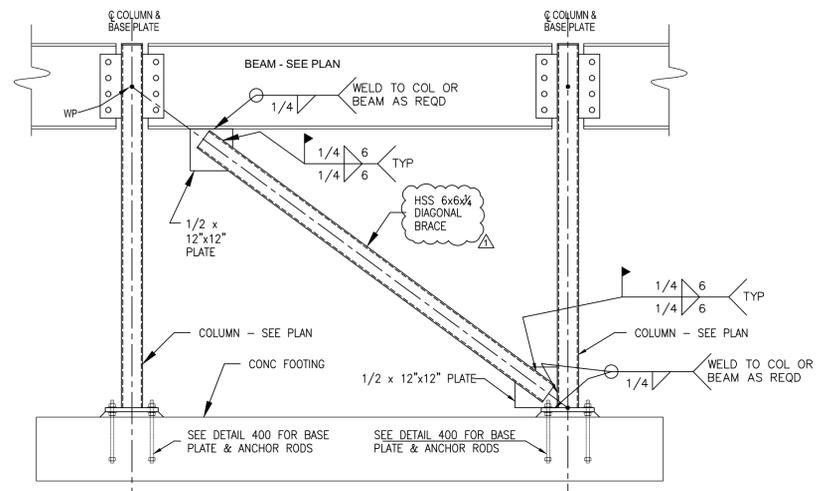
456 COLUMN TIE PLAN DETAIL
N.T.S.



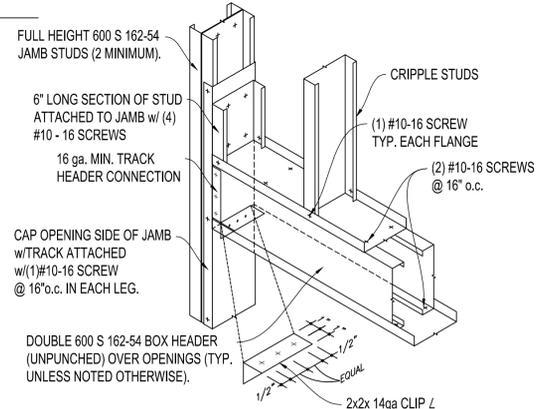
455 BEAM BRACING DETAIL
N.T.S.



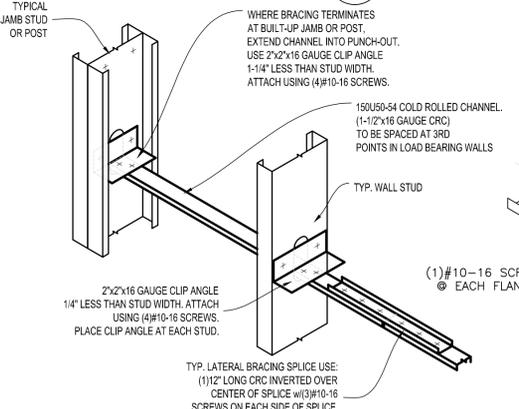
463 ROOF JOIST DETAIL
N.T.S.



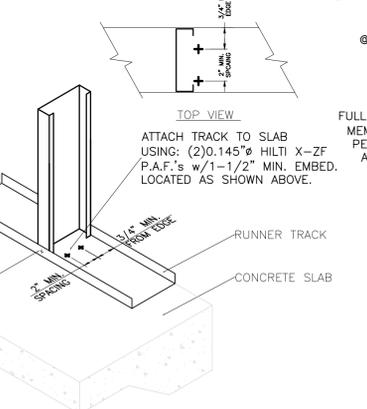
478 TYP. DIAGONAL BRACE DETAIL
N.T.S.



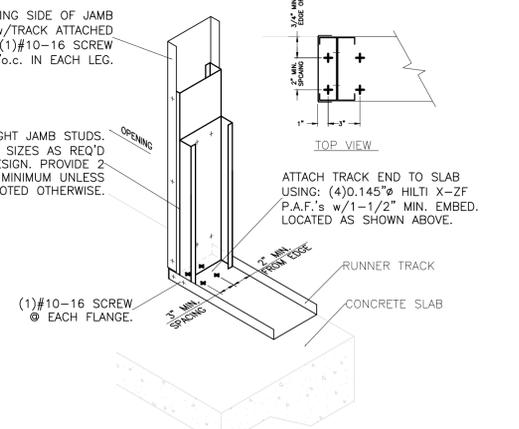
511 HEADER FRAMING DETAIL
N.T.S.



560 CRC LATERAL BRACING
N.T.S.



565 STUD TO TRACK DETAIL
N.T.S.



568 DOOR JAMB ANCHORAGE
N.T.S. (2) JAMB ANCHORAGE TO STRUCTURE

BRAVO BLDG SET 04-21-2025

558 TRACK SPLICE CONNECTION
N.T.S.

OCONEE ENGINEERING L.L.C.
ATTORNEYS AT LAW
2610 Bowdoin Road
Greensboro, GA 30642
P: (770) 313-0902
e-mail: rafiq@oconeeengineering.com



R.L. COUSINS COMMUNITY CENTER
NEWTON CO. BOCC REP #24-04
8134 GEIGER STREET, COVINGTON, GA
FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
1	2/20/2025		ISSUE FOR CONSTRUCTION
	5/4/2024		ISSUE FOR PRICING
	4/22/2024		ISSUE FOR PRICING

DESIGNED: 02/24/07
DRAWN: 02/24/07-S-CORE16
CHECKED: 02/24/07
APPROVED: 02/24/07
DATE: 2-20-2025
© COPYRIGHT 2025. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS IS PROHIBITED. ANY ALTERATIONS TO THIS DRAWING MUST BE AUTHORIZED BY WRITTEN INSTRUMENT FROM OCONEE ENGINEERING, L.L.C.

PHASE TWO FRAMING DETAILS

MARK	AIRFLOW	SUPPLY AIR CFM	MIN OUTSIDE AIR CFM	EXT. SP IN. W.G.	NOMINAL TONS	EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		OUTSIDE AIR TEMP. CONDITIONS		GAS HEAT		HEATING COIL @ OUTSIDE 25F		POWER VAC/PH	BASIS OF DESIGN: CARRIER	WEIGHT LBS	NOTES
						DB F	WB F	DB F	WB F	TOTAL	SENSIBLE	STAGE 1 IN/OUT	STAGE 2 IN/OUT	ENT. TEMP	LEAV. TEMP	STG 1	STG 2				
PU-1	HORIZONTAL	4400	550	1.0	12.5	77.3	64.4	55.0	54.0	137.0	99.0	95	120/98	180/148	64.5	85.0	460/3	48FCDN14M3A6-0A0A0	1500	1:2:3:4:5:6:7:8:9:10:11	
PU-2	HORIZONTAL	6150	1110	1.0	17.5	78.3	65.3	55.0	54.0	147.5	200.5	95	176/142	220/178	62.0	83.2	460/3	48FCDN20CA5-8B0A0	2200	1:2:3:4:5:6:7:8:9:10:12	

1. PROVIDE FILTERS, CONDENSATE TRAP, PIPING, FLEXIBLE CONNECTIONS, PROGRAMMABLE T-STAT, AND CONDENSATE P-TRAP TO DISCHARGE INTO DRY WELL. HORIZONTAL SUPPLY AND HORIZONTAL RETURN UNIT. UNIT SHALL BE MOUNTED ON CONCRETE PAD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PACKAGED UNIT SHALL HAVE HIGH STATIC MOTOR. PROVIDE MANUFACTURER'S APPROVED SOUND ATTENUATION BLANKETS FOR COMPRESSORS. PROVIDE CONDENSATE COIL GUARD.
4. PROVIDE MANUFACTURER'S SUPPLY AIR SMOKE DETECTOR. ELECTRICAL SHALL INTERLOCK IT WITH BUILDING FIRE ALARM SYSTEM. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE OVERFLOW SWITCH.
5. PROVIDE BUILT-IN HUMID-MIZER ADAPTIVE DEHUMIDIFICATION SYSTEM. HOT GAS REHEAT COIL SYSTEM SHALL WORK INDEPENDENTLY OF COOLING CIRCUIT TO CONTROL HUMIDITY WITHIN OCCUPIED SPACE.
6. PROVIDE MANUFACTURER'S 2-STAGE GAS HEAT. PROVIDE FLUE DISCHARGE DEFLECTOR THAT DEFLECTS FLUE UPWARD. PROVIDE FLUE DISCHARGE HEAT SHIELD.
7. PROVIDE MOTORIZED MINIMUM OUTSIDE AIR HOOD. INTERLOCK MINIMUM OUTSIDE AIR DAMPER TO OPEN WHEN EVAPORATOR FAN IS ON.
8. 2-STAGE COOLING WITH HUMID-MIZER. PROVIDE 2-SPEED INDOOR FAN CONTROLLED. FAN SHALL HAVE STAGED AIR VOLUME SYSTEM FOR COOLING.
9. UNDER HEATING SUPPLY CFM SHALL BE SET TO PROVIDE 100% OF AIR AT BOTH STAGES. UNDER COOLING MODE STAGE FAN TO MATCH COOLING STAGE.
10. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.
11. PROVIDE BASE ECONOMIZER WITH ELECTROMECHANICAL CONTROLS AND FIELD INSTALLED ECONOMIZER ACCESSORIES (CROMZRH06A00).
12. PROVIDE TEMPERATURE ECONOMIZER WITH BAROMETRIC RELIEF. BAROMETRIC MOOD SHALL BE FIELD INSTALLED ACCESSORIES.

MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS	NOTES
S1	SUPPLY	SEE PLANS	NECK+2-1/4"	ALUMINUM	AIR NOZZLE	1-WAY	SURFACE	AIR CONCEPTS ANC-RD	4:5
S2	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:4
S3	SUPPLY	SEE PLANS	NECK+1-3/4"	STEEL	DOUBLE DEFLECTION REGISTER	2-WAY	DUCT MOUNT	TITUS 300RS	1
R1	RETURN	SEE PLANS	NECK+1-3/4"	ALUMINUM	FULL LOUVERED FACE	---	SURFACE	TITUS 350RL	3
R2	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	SURFACE	TITUS 50F	1:7

1. PROVIDE STANDARD WHITE FINISH. INSULATE BACK OF DEVICE.
2. GRILLE SHALL BE SAME COLOR AS WALL IT IS MOUNTED ON. COORDINATE WITH ARCHITECT.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. CONTRACTOR MUST COORDINATE AIR DEVICE FINISH COLOR WITH ARCHITECT BEFORE PLACING AN ORDER FOR AN AIR DEVICE.
5. PROVIDE OPPOSED BLADE DAMPER(ROD) THAT IS ACCESSIBLE FROM THE FACE OF GRILLE.
6. PROVIDE FULL SIZE LINED ELBOW ON TOP OF GRILL FOR RETURN AIR TRANSFER.
7. PROVIDE FULL SIZE LINED PLENUM ON TOP OF GRILL FOR DUCT CONNECTION.
8. GRILL SHALL BE SAME COLOR AS EXPOSED DUCTWORK. REFER TO ARCHITECTURAL FOR DUCTWORK FINISH.

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. SP IN. W.G.	EVAP. FAN HP	EVAP. COIL ENTERING AIR DESIGN CONDITIONS	EVAP. COIL LEAVING AIR DESIGN CONDITIONS	SYSTEM COOLING MAX. REQUIREMENTS (MBH)	SUPPL. WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES				
AH-1	1,050	120	0.60	1/2	77.1	64.3	55.0	54.0	32.8	25.5	6.8	250	208/3	FV4CNF005L00	1:2:3:4:5:6:7:8:9:10
AH-2	1,050	120	0.60	1/2	77.1	64.3	55.0	54.0	32.8	25.5	6.8	250	208/3	FV4CNF005L00	1:2:3:4:5:6:7:8:9:10

1. UNIT AT 208/36. AUXILIARY HEATER AT 208/36. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAPS AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE TO OUTSIDE.
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.
6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT. PROVIDE A TEST STATION ACCESSIBLE FROM THE FLOOR FOR EACH DETECTOR.
7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.
9. PROVIDE 24/7 365 DAY PROGRAMMABLE THERMOSTAT. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM FOR FAN COIL UNIT.
10. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM FOR FAN COIL UNIT.

MARK	AHU SERVED	HEAT PUMP HEATING CAP (MBH)	SEER2	HSPF2	NOM. CAP.	REFRIG.	OA TEMP SUMMER (DB)	OA TEMP WINTER (DB)	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
HP-1	AH-1	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-2	AH-2	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6

1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
5. 2-STAGE COMPRESSOR UNIT.
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVALENT FEET.

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND	
	NEW PIPE, DUCTWORK OR EQUIPMENT
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A. DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
	REFRIGERANT PIPING
	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
	TIME CLOCK
	DIAMETER
	U.C. UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
	AFF ABOVE FINISHED FLOOR
	AH AIR HANDLING UNIT
	BD BYPASS DAMPER
	BTUH, MBH BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
	CAP CAPACITY
	CFM CUBIC FEET PER MINUTE
	CLG CEILING
	CU CONDENSING UNIT
	DB, WB DRY BULB TEMPERATURE, WET BULB TEMPERATURE
	EA, EG EXHAUST AIR, EXHAUST GRILLE
	EF EXHAUST FAN
	EXT SP EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
	HP HEAT PUMP UNIT
	MVD, VD MANUAL VOLUME DAMPER
	OA OUTSIDE AIR
	RA, RG RETURN AIR, RETURN GRILLE
	RTU PACKAGED ROOFTOP UNIT
	SA SUPPLY AIR
	VAC, PH VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
	W, KW WATTS, KILOWATTS
	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)

OUTDOOR UNIT MARK	INDOOR UNIT MARK	MIN COOLING MBH	MIN HEATING MBH @ 47F	SUPPLY AIR CFM	POWER VAC/PH	SEER	HSPF	CARRIER MODEL #		SERVES	NOTES
								OUTDOOR	INDOOR		
HPU-1	ACU-1	17.5	18.0	680	208/1	20.0	12.5	38MAQB18---3	40MBCQ18---3	C04 COMPUTER ROOM	1:2:3:4:5:6:10:11:12:13
HPU-2	ACU-2	17.5	18.0	680	208/1	20.0	12.5	38MAQB18---3	40MBCQ18---3	C06 WARMING KITCHEN	1:2:3:4:5:6:10:11:12:13
HPU-3	ACU-3	17.5	18.0	680	208/1	19.5	9.6	38MAQB18---3	40MAQB18B---3	C09 A.V./D.F.	1:2:3:4:5:6:7:8:9:10

1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
2. ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING.
3. CONDENSATE DRAIN SHALL BE PVC.
4. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.
5. PROVIDE DISCONNECT AND ELECTRICAL CONNECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSA0N0501AAA.
7. PROVIDE RECTOR SEAL SS316 CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
8. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS). PROVIDE MANUFACTURER'S WIRED THERMOSTAT.
9. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN. PUMP SHALL BE INTEGRAL TO THE UNIT CABINET.
10. PROVIDE RECTOR SEAL SS316 CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
11. 4-WAY CEILING CASSETTE.
12. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.
13. PROVIDE SELF CLEANING IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.

MARK	CFM	EXT. SP IN. W.G.	DRIVE TYPE	MOTOR AMP/WATTS /HP	MAX SONES	POWER/PHASE	SERVES	BASIS OF DESIGN	NOTES
EF-1	200	0.20	DIRECT	172.0	4.5	115/1	C13 WOMEN	GREENHECK SP-B200	1:2:3:4
EF-2	200	0.20	DIRECT	172.0	4.5	115/1	C12 MEN	GREENHECK SP-B200	1:2:3:4
EF-3	70	0.25	DIRECT	20.0 W	1.3	115/1	C06 KITCHEN	GREENHECK SP-B90	1:2:3:5
EF-4	70	0.25	DIRECT	20.0 W	1.3	115/1	C07 JAN CLOS	GREENHECK SP-B90	1:2:3:5
EF-5	150	0.30	DIRECT	128.0	3.6	115/1	C08 HVAC/ELECTRIC	GREENHECK SP-B150	1:2:3:6

1. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, VIBRATION ISOLATION, FAN SPEED CONTROLLER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
2. PROVIDE ROUND DUCT CONNECTION.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
4. FAN SHALL BE CONTROLLED BY A 24/7 365 DAY TIME CLOCK LOCATED IN C07 JANITOR CLOSET. ELECTRICAL SHALL PROVIDE TIME CLOCK.
5. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM IT SERVES.
6. FAN SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT LOCATED IN ROOM FAN SERVES. THERMOSTAT SHALL BE PROVIDED BY MECHANICAL.

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-2400	GPS-FC24-AC	1:2:3:4:5
0-1200	GPS-FC	1:6:7:8
0-8000	GPS-MOD	1:2:3:4:9

1. INTERLOCK IONIZATION SYSTEM TO RUN WITH EVAPORATOR FAN.
2. UNIT SHALL BE EQUIPPED WITH UNIVERSAL VOLTAGE INPUT, IN-LINE ON-OFF SWITCH, PROGRAMMABLE AUTO-CLEANING CYCLE.
3. UNIT SHALL BE EQUIPPED WITH PLASMA ION INDICATION LIGHT, ALARM CONTACTS, MAGNETS, AND CARBON FIBER BRUSH EMITTERS.
4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
5. ONE IONIZATION SYSTEM PER DUCTED FAN COIL UNIT.
6. ONE SELF-CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER DUCTLESS MINI SPLIT UNIT.
7. SYSTEM SHALL BE USE FOR DUCTLESS MINI SPLIT.
8. SYSTEM SHALL BE EQUIPPED WITH CARBON FIBER BRUSHES AND LED OPERATION STATUS.
9. ONE IONIZATION SYSTEM PER PACKAGED UNIT (PU-1 & PU-2) OVER 2400 CFM.

BRAVO BLDG SET 04-21-2025

PHASE 2



Seal: **ARUN M PATEL**
PROFESSIONAL ENGINEER
 STATE OF GEORGIA



TOTAL ENGINEERS
 169 New Street, Macon, GA 31201
 (478) 741-4632 - T.E. Project # 23-101
 www.totalengineers.com



SUNBELT BUILDERS
 10841 HWY 8 DAVENPORT GA 0314 1770788 0 1 770788 048

Client: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

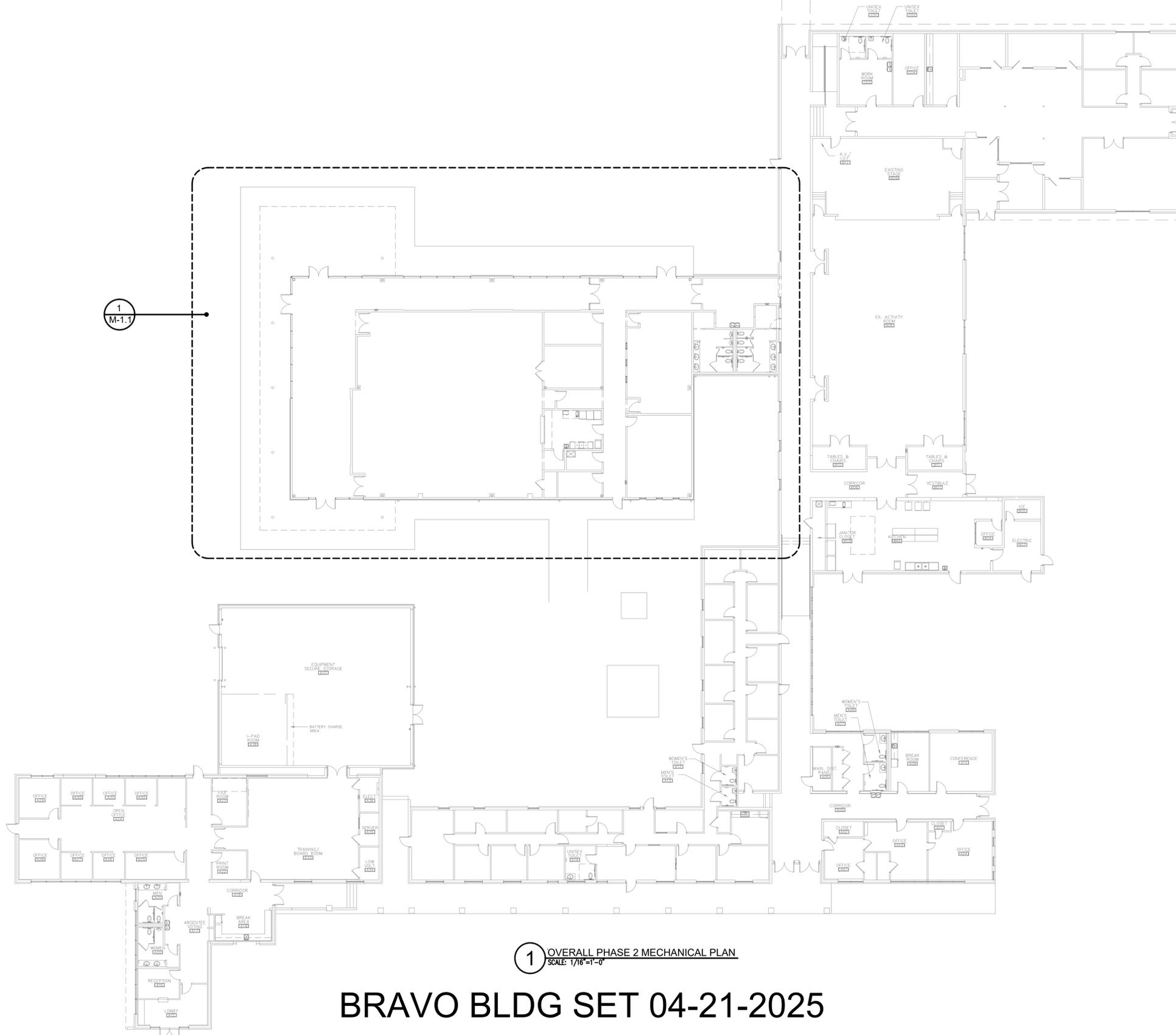
Project: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue	Date	Initiated	Drawg.	Revision	Description

Project No.: **04/15/24**
 Drwg. Date: **04/15/24**
 Drwg. Revision:
 Drawn By: **JWK & KMP**
 Checked By: **KMP**
 File Name:

Sheet Title:
MECHANICAL SCHEDULES

Sheet No.:
M-0.2



1 OVERALL PHASE 2 MECHANICAL PLAN
SCALE: 1/16"=1'-0"

BRAVO BLDG SET 04-21-2025

PHASE 2



Seal:
TOTAL ENGINEERS
 169 New Street, Macon, GA 31201
 (478) 41-4632 - T.E. Project # 23-101
 www.totalengineers.com

Client:
SUNBELT
 BUILDERS™
 10841 HWY 9 COVINGTON GA 0014 1770798 0 1 770 798 048

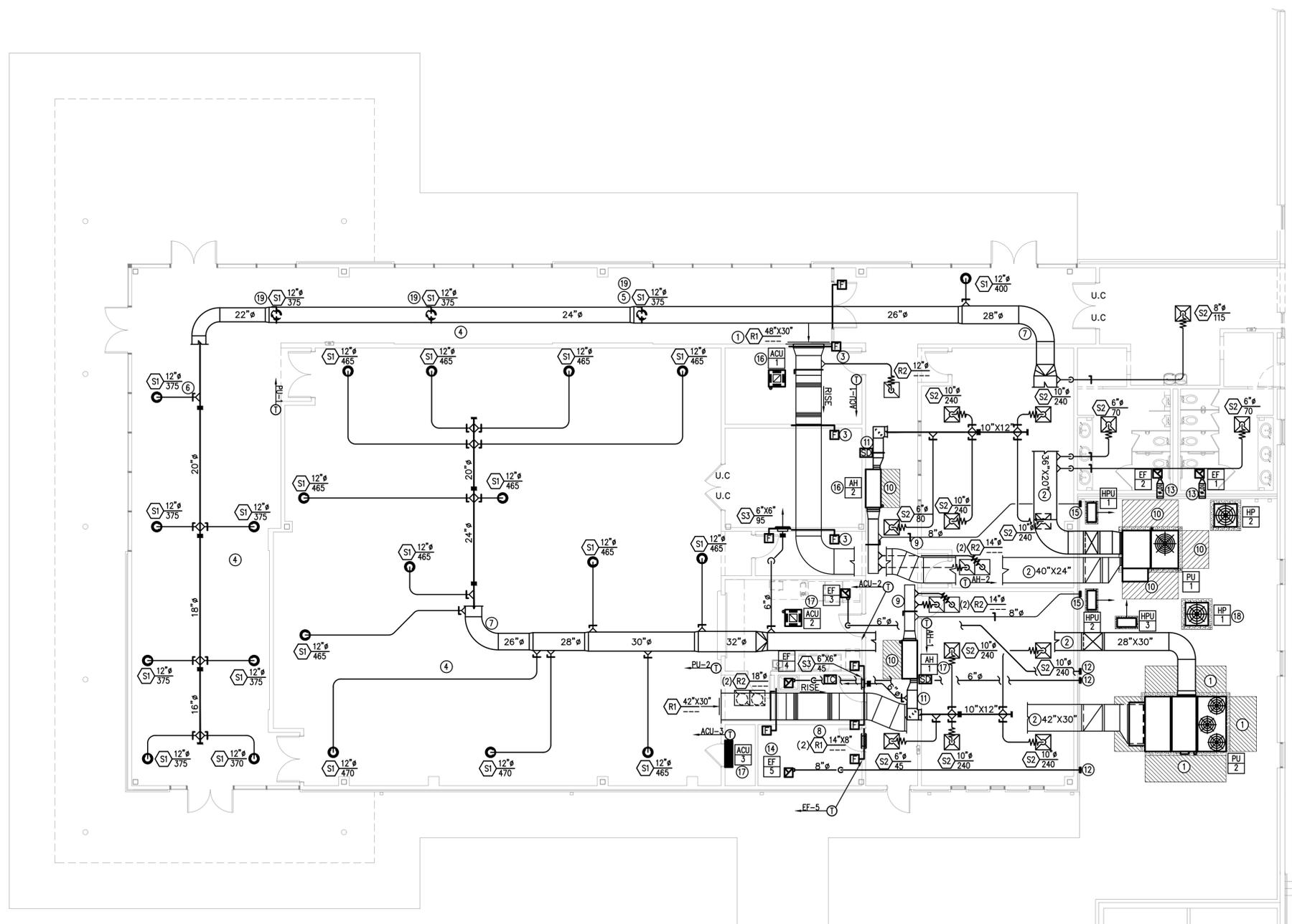
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue	Date	Initial	Dwg.	Revision	Description

Project No.:
 Dwg. Date: 04/15/24
 Dwg. Revision:
 Drawn By: JWK & KMP
 Checked By: KMP
 File Name:

Sheet Title:
OVERALL MECHANICAL PLAN

Sheet No.:
M-1.0



1 ENLARGED COMMUNITY BUILDING MECHANICAL PLAN
SCALE: 1/8"=1'-0"

KEY NOTES (THIS SHEET ONLY):

- 1 BOTTOM OF SIDEWALL RETURN AIR GRILL SHALL BE AT SAME ELEVATION AS TOP OF LAY IN CEILING IN THE C04 COMPUTER ROOM.
- 2 TOP OF DUCT AT BOTTOM OF STRUCTURE.
- 3 CONTRACTOR SHALL OMIT FIRE DAMPER IN CASE WALL IS NT RATED. CONTRACTOR SHALL CHECK RATING OF THE WALL WITH ARCHITECTURAL LIFE SAFETY PLAN BEFORE INSTALLING FIRE DAMPER. TYPICAL FOR ALL FIRE DAMPERS.
- 4 ALL VISIBLE EXPOSED DUCTWORK WITHIN BUILDING SHALL BE SPIRAL DUCTWORK. PROVIDE PAINT GRILL FINISH. NON-VISIBLE DUCTWORK SHALL BE WRAP WITH INSULATION PER SPECIFICATIONS. CONTRACTOR SHALL PAINT PER OWNER/ARCHITECTURAL.
- 5 GRILL ELEVATION SHALL BE SAME AS LOWEST NEARBY ROUND/RECTANGULAR CLOUD. GRILL SHALL BE SAME COLOR AS VISIBLE EXPOSED SPIRAL DUCTWORK. TYPICAL FOR ALL AIR-NOZZLE(S) DIFFUSERS. CONTRACTOR SHALL EXACTLY COORDINATE WITH GC AND ARCHITECTURAL.
- 6 TYPICAL YOUNG REGULATOR MODEL 270-896-LO CONCEALED CEILING REGULATOR WITH 7/8" THREADED CEILING CAP. PROVIDE BOWDEN CASING WIRE AS REQUIRED. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLING MANUAL VOLUME REGULATORS. CONTRACTOR SHALL USE YOUNG REGULATOR FOR DAMPERS LOCATED ABOVE HARD GYP BOARD INACCESSIBLE CEILING. PROVIDE REGULAR MVD WHERE DAMPER IS ACCESSIBLE.
- 7 PROVIDE INTERNALLY LINED DOUBLE WALL SPIRAL DUCT ELBOW.
- 8 BOTTOM OF GRILL AT TOP OF A DOOR.
- 9 16"x16" RETURN AIR DUCT.
- 10 UNIT ACCESS SPACE.
- 11 14"x14" SUPPLY AIR DUCT.
- 12 EXHAUST AIR CAP. TOP OF CAP AT BOTTOM OF STRUCTURE.
- 13 10" EXHAUST AIR WALL CAP.
- 14 ALL EXHAUST AIR DUCT SHALL BE HARD SHEET METAL DUCTWORK MINIMUM 26-GAUGE TO OMIT FIRE DAMPER. REFER TO FIRE DAMPER COMMISSION DETAIL. TYPICAL FOR ALL EXHAUST AIR DUCTWORK.
- 15 8" OUTSIDE AIR WALL CAP DOWN LOW. CAP SHALL BE AT SAME ELEVATION AS AIR-HANDLING UNIT.
- 16 ROUTE CONDENSATE DRAIN TO MECHANICAL YARD. PROVIDE 45-DEGREE ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE.
- 17 ROUTE CONDENSATE TO MOP SINK AT JANITOR CLOSET.
- 18 ROUTE REFRIGERANT PIPES TO RESPECTIVE AIR-HANDLING UNIT LOCATED INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.
- 19 CONTRACTOR SHALL TAKE A TAP FROM UNDER THE SPIRAL DUCT. PROVIDE MVD AT TAP.

BRAVO BLDG SET 04-21-2025

PHASE 2

Spec: **ENLARGED COMMUNITY BLDG MECHANICAL PLAN**

Client: **SUNBELT BUILDERS**
10041 HWY • DAVENPORT GA 30114 • 770.798.0401

Project: **R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA**

Issue	Date	Initialed	Drawg.	Revision	Description

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
ENLARGED COMMUNITY BLDG MECHANICAL PLAN
Sheet No.:
M-1.1

PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:

- A. Plumbing fixtures, fittings and equipment.
- B. Hot and cold water systems.
- C. Drain waste and vent piping systems.
- D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be UL listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope at 1/8 inch per foot continuously toward public sewer.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60" with 1" thick type I performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elastomer.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings.

DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:

1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
 - a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
 - b. Fill and isolate system according to either of the following:
 - 1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
 - 2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
 - c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
 - d. Repeat procedures if biological examination shows contamination.
 - e. Submit water samples in sterile bottles to authorities having jurisdiction.
3. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
4. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASI/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

Above ground natural gas piping shall be ASTM A53; Type E or S. Grade B; Schedule 40; black steel with malleable iron threaded fitting per ASME 18.3 Class 150. Flexible connectors shall comply be ANSI Z21.24 of copper alloy. Gas slope shall have bronze body with AGA stamp and bronze plug with lever handle. Valves shall be ASME B16.33 with IAS-listed bronze body. Coordinate connection of gas service and installation of meter with gas utility company. All piping shall be adequately supported. Prime & paint all exposed outdoor piping. Line gas pressure regulators shall comply with ANSI Z21.80. Appliance gas pressure regulators shall comply with ANSI Z21.18. Provide vent limiting device for regulators located indoors. Provide vent protector device for regulators located outdoors.

HW & CW Valves: Use pipe size valves, as shown below:

- A. Ball: Watts LFFBV-3C.
- B. Check: Watts #600 or #601S.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and the rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactory functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority and the engineer.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and uncoated until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufacturers: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
 Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
 Supplies & Traps: Engineered Brass CO., McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
 Flush Valves: Sloan, Delany, Zurn, American Standard
 Floor Drains & Cleanouts: Zurn, Joy R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
 Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem
 Toilet Seats: Bemis, Centoco, Church Seats, Osonite, Beneke, Zurn, Mainline
 ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
 Fixture Supports: MIFAB, Joy R. Smith, Wade, Watts, Zurn
 Wall Hydrants/ Hose Bibbs: MIFAB, Joy R. Smith, Wade, Watts, Woodford, Zurn
 Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Joy R. Smith, Wade, Watts, Zurn
 Brass Valves: American, Crane, Watts, Apollo
 Water Coolers: Elkay, Oasis, Hows
 Map Sinks: Stern Williams, Acorn, Flat

#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MANUFACTURE AND NOTES
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT	
WC1	WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96053 WATER CLOSET. SLOAN REGAL 111 SFSM-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
WC2	ADA WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96057-B WATER CLOSET. SLOAN REGAL 111 SFSM-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
UR1	URNAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.
UR2	ADA URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.
LAV	ADA DROP-IN LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2196-4-0 LAVATORY. MOEN 8413F05 FAUCET.
MOP	TERRAZZO MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	STERN WILLIAMS MTB-3624, T-10-VB FAUCET, T-35 HOSE & WALL HOOK, T-40 MOP HANGER, BP PANELS.
EWC	ELECTRIC WATER COOLER W/ BOTTLE FILLER	2"	1-1/4"	1/2"		1/2"		ELKAY EZSWSLK.
NFWH	NON-FREEZE WALL HYDRANT			3/4"		3/4"		WOODFORD B65.
HB	INTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD B4.
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
FCO	FLOOR CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO12. PROVIDE CARPET MARKER WHEN INSTALLED UNDER CARPET.
CCO	GRADE CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-200-RX-4-60.
FS	FLOOR SINK	3"	3"					WATTS FS-740-NH-150.
HD	HUB DRAIN	2"	2"					WATTS FD-100-DD-60.
WCO	WALL CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-450-RD-60.

PUMP SCHEDULE									
MARK	PUMP TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	RPM	HP/ WATTS	GPM	FEET HEAD	*ELECTRICAL VOLTS	PHASE
RC	RECIRCULATION	TACO	006e3	1140-3720	44 WATTS	2	2.53	120	1

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE

WATER HEATER & TANK SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	TYPE	GALLON	KW	MIN. UEF	*ELECTRICAL VOLTS	PHASE	
WH-C07	A.O. SMITH	ENT-50	RESIDENTIAL ELECTRIC	50	4.5	0.92	277	1	
EV	WATTS	LFBVWH	COMBINATION BALL VALVE AND RELIEF VALVE						

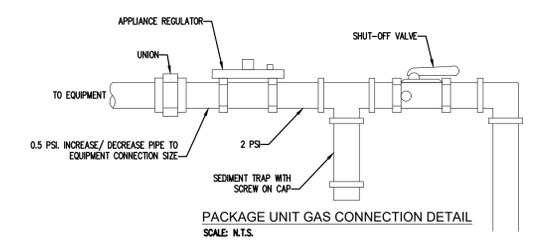
CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE. WATER HEATERS SHALL HAVE FACTORY-INSTALLED HEAT TRAPS.

GENERAL FIRE PROTECTION NOTES:

Fire protection sprinkler system design is delegated to the contractor. The fire protection subcontractor is responsible for code compliance, research, design, coordination, and installation of a complete and functional hydraulically calculated sprinkler system (and standpipe system, if required) that meets the approval of and is in accordance with all applicable regulations and requirements of the following and as further specified.

Current edition of NFPA
 Applicable Codes
 Authorities having jurisdiction.

LEGEND							
	SHUTOFF VALVE		COLD WATER		(TYP) TYPICAL		VTR
	CHECK VALVE		HOT WATER		C.T. COUNTER-TOP		AFF
	PIPE UP		HOT WATER RETURN		DN DOWN		CW
	PIPE DOWN		SEWER VENT		CONN. CONNECTION		HW
	DRAWINGS		SEWER		NTS NOT TO SCALE		B.F.F.
	GREASE LADEN SEWER		FIRE SPRINKLER		VT VENT		FLR
	OVERFLOW ROOF DRAINAGE		GAS		FFE FINISHED FLOOR ELEVATION		
	STORM						



Seal:

TOTAL ENGINEERS
 169 New Street, Mableton, GA 31201
 (478) 941-4632 - T.E. Project # 23-101
 www.totalengineers.com

Client: **SUNBELT BUILDERS**
 10841 HWY 8 COVINGTON GA 0014 1770788 0 1 770788 048

Project: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue	Date	Initiated	Drawn	Revision	Description
02	13-25	JWK		1	SEWER ROUTING REVISION

Project No.:
 Drwg. Date: 04/15/24
 Drwg. Revision:
 Drawn By: JWK & KMP
 Checked By: KMP
 File Name:

Sheet Title:
PLUMBING SPECIFICATIONS

Sheet No.:
P-0.1

BRAVO BLDG SET 04-21-2025

PHASE 2

**FIRE PROTECTION BASIC MATERIALS AND METHODS
(FIRE PROTECTION SECTION 1 OF 2)**

- PART 1 GENERAL
- 1.1 SECTION INCLUDES
- A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.
- 1.2 REFERENCES
- A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.
 - B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.
 - C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.
 - D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANS/ASME B16.5).
 - E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.
 - F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
 - G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.
 - H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.
 - I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.
 - J. NFPA 72 – National Fire Alarm Code.
 - K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.
 - L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3-04(3))
 - M. UL (FPED) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.
 - N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..
 - O. Chapter 120-3-3 of the Rules of the Safety Fire Commissioner.
 - P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments), NFPA Code, where more stringent, shall take precedence.
- 1.3 SUBMITTALS
- A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.
 - B. Shop Drawings: Indicate pipe materials used, joining methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.
 - C. Project As-Built Documents: Record actual locations of components and tag numbering.
 - D. Operation and Maintenance Data: Include installation instructions and spare parts lists.
- 1.4 QUALITY ASSURANCE
- A. Fire Protection
1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 ft2 of protected area or greater.
 2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
 3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.
 4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.
- B. Conform to UL and FM requirements.
 - C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.
 - D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.
- 1.5 DELIVERY, STORAGE, AND PROTECTION
- A. Deliver and store valves in shipping containers, with labeling in place.
 - B. Provide temporary protective coating on cast iron and steel valves.
 - C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
- 1.6 EXTRA MATERIALS
- A. Provide additional materials as provided in these specifications and by NFPA.
- PART 2 PRODUCTS
- 2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS
- A. Sprinkler Systems: Conform work to NFPA 13.
 - B. Standpipe and Hose Systems: Conform to NFPA 14.
 - C. Welding Materials and Procedures: Conform to ASME Code.
 - D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.
 - E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.
 - F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120-3-3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.
 - G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.
 - H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.
 - I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect. Drain and test connection piping, if in finished space, shall be installed concealed.
- 2.2 BURIED PIPING
- A. Refer to Civil plans and specifications for piping type.
- 2.3 ABOVE GROUND WET SYSTEM PIPING
- A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.
 1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
 2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
 3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.
 - B. PIPE HANGERS AND SUPPORTS
 - A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.
 - B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.
 - C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
 - D. Vertical Support: Steel riser clamp.
 - E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
 - F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12'-0" O.C. maximum or at floor levels.
 - G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.
- 2.5 GATE VALVES
- A. Up to and including 2 inches:
 1. Manufacturers:
 - a. Nibco Scott; Product T-104-0
 - b. Jenkins; Product 275U
 - c. Hammond; Product 1B681
 - d. Stockham; Product B-133
 - e. Kennedy; Product Fig. 66
 2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.
 - B. Over 2 inches:
 1. Manufacturers:
 - a. Nibco Scott; Product F-607-OTS
 - b. Crane; Product 467
 - c. Jenkins; Product 825-A
 - d. Hammond; Product 1R1154
 - e. Stockham; Product G-634
 - f. Kennedy; Product Fig. 68
 2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.
- 2.6 GLOBE VALVES
- A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.
 - B. Up to and including 2 inches:
 1. Manufacturers:
 - a. Nibco-Scott; Product KT-65.
 - b. Kennedy; Product 97SD.
 - c. United; Product 125S.
 - d. Fairbanks; Product 4691-3.

- 2.7 ANGLE VALVES
- A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.
 - B. Up to and including 2 inches:
 1. Manufacturers:
 - a. Nibco-Scott; Product T-301-W.
 - b. Kennedy; Product 985D.
 - c. United; Product 126S.
 - d. Fairbanks; Product 4691-3.
- 2.8 BUTTERFLY VALVES: Not allowed.
- 2.9 CHECK VALVES
- A. Iron body, U.L. Listed- F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.
 - B. Manufacturers:
 1. Jenkins; Product 629
 2. Crane; Product 375
 3. Stockham; Product G-939
 4. Mueller; Product A-2120-6
 5. Kennedy; Product #126
- 2.10 INDICATOR POSTS
- A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.
 - B. Manufacturers:
 1. Kennedy Fig. Series 741.
 2. Nibco NIP-1.
 3. Stockham G-951.
 4. Mueller A-20804.
- 2.11 UNDERGROUND GATE VALVES
- A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange ends, AWWA spec. C-500.
 - B. Manufacturers:
 1. Kennedy Fig. 701X.
 2. Nibco F-609.
 3. Stockham G-635.
 4. Mueller A-2075-20.
 5. M & H Fig. 3067.
- PART 3 EXECUTION
- 3.1 PREPARATION
- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
 - B. Remove scale and foreign material, from inside and outside, before assembly.
 - C. Prepare piping connections to equipment with flanges or unions.
 - D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.
- 3.2 INSTALLATION
- A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.
 - B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.
 - C. Install post indicator valve (PIV) upstream of backflow device.
 - D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.
 - E. Install piping to conserve building space, to not interfere with use of space and other work.
 - F. Group piping whenever practical at common elevations.
 - G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present
 - H. Steeve pipes passing through partitions, walls, and floors.
 - I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
 - J. Reducing Tees: Weld-on threaded outlet tees and Couplet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merril Manufacturing Corp., NAF300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.9.
 - K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.
 - L. Pipe Hangers and Supports:
 1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
 2. Place hangers within 12 inches of each horizontal elbow.
 3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
 4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
 5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.
 - M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.
 - N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
 - O. Do not penetrate building structural members unless indicated.
 - P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.
 - Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.
 - R. Die cut threaded joints with full cut standard taper pipe threads with red lead and linseed oil or other non-toxic joint compound applied to male threads only.
 - S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.
 - T. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.
 - U. Provide drain valves at main shut-off valves, low points of piping and apparatus.
- 3.3 CLEANING AND PROTECTION
- A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.
 - B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.
 - C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.
 - D. Chipped or scraped paint shall be retouched to match original finish.
 - E. All dents and sage in equipment casing shall be straightened.
 - F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.
- 3.4 FINISHING EQUIPMENT AND MATERIAL
- A. Use paint systems specified in Division 9 for the substrates to be finished.
 - B. Paint shop-primed equipment.
 - C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.
 - D. Paint all exposed pipes, unless otherwise indicated.
 - E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.
 - F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.
 - G. Paint all exposed un-insulated ferrous materials.
- END OF SECTION

**FIRE SUPPRESSION SPRINKLERS
(FIRE PROTECTION SECTION 2 OF 2)**

- PART 1 GENERAL
- 1.1 SECTION INCLUDES
- A. Wet Type Sprinkler System
 - B. Dry-pipe sprinkler system.
 - C. System design, installation, and certification.
 - D. Fire department connections.
- 1.2 REFERENCES
- A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.
 - B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.
- 1.3 SUBMITTALS
- A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.
 - B. Shop Drawings:
 1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
 2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.
 - C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.
 - D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.
 - E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.
- 1.4 QUALITY ASSURANCE
- A. Maintain one copy of referenced design and installation standard on site.
 - B. Conform to UL requirements.
 - C. Equipment and Components: Provide products that bear UL label or marking.
 - D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.
- 1.5 DELIVERY, STORAGE, AND PROTECTION
- A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.
 - B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.
- 1.6 EXTRA MATERIALS
- A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.
 - B. Provide suitable wrenches for each sprinkler type.
 - C. Provide metal storage cabinet located at piping entrance to building.
- PART 2 PRODUCTS
- 2.1 SPRINKLER SYSTEM REQUIREMENTS
- A. Sprinkler System: Provide coverage for entire building.
 - B. Occupancy: comply with NFPA 13.
 - C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.
 - D. Interface system with building fire alarm system.
 - E. Provide fire department connections where indicated on FP and civil drawings.
- 2.2 SPRINKLERS
- A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.
 - B. All sprinklers installed shall be by the same manufacturer.
 - C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.
 - D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.
 1. Finish: Chrome plated.
 2. Escutcheon Plate Finish: Chrome plated.
 3. Quick response Glass bulb type temperature rated for specific area hazard.
 - E. Cypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.
 1. Finish: Brass.
 2. Escutcheon Plate Finish: Enamel, Verify color with architect.
 - F. Exposed Area Type: Standard upright type.
 1. Finish: Brass.
 - G. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.
 - G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.
 1. Finish: Chrome plated.
 2. Escutcheon Plate Finish: Chrome plated.
 3. Quick Response Fusible solder link type temperature rated for specific area hazard.
 - H. Guards: Finish to match sprinkler finish.
- 2.3 PIPING SPECIALTIES
- A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator with test and drain valve.
 - B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gang and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.
 - C. Electric Alarm: Electrically operated chrome plated gang with pressure alarm switch.
 - D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.
 - E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.
 - F. Fire Department Connections: Elkhart, Croker Standard, Potter Roemer.
 1. Type: Free standing type with ductile iron pedestal chrome plated finish.
 2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
 3. Drain: 3/4 inch automatic drip, outside.
 4. Label: "Sprinkler – Fire Department Connection".
- PART 3 EXECUTION
- 3.1 INSTALLATION
- A. Install in accordance with referenced NFPA design and installation standard and these specifications.
 - B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.
 - C. Install equipment in accordance with manufacturer's instructions.
 - D. Each floor of multi story buildings shall be zoned.
 - E. All dry system piping shall be galvanized down stream of dry valve.
 - F. Install buried shut-off valves in valve box. Provide post indicator.
 - G. Provide approved double detector check assembly at sprinkler system water source connection.
 - H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.
 - I. Locate outside alarm gong on building wall at piping entrance to building.
 - J. Place pipe runs to minimize obstruction to other work.
 - K. Place piping in concealed spaces above finished ceilings.
 - L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.
 - M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field point finish. Remove after painting. Replace painted sprinklers.
 - N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct
 - O. Install air compressor on vibration isolators.
 - P. Flush entire piping system of foreign matter.
 - Q. Hydrostatically test entire system.
 - R. Require test be witnessed by Fire Marshall.
 - S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.
 - T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.
- 3.2 INTERFACE WITH OTHER PRODUCTS
- A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.
- 3.3 SCHEDULES
- A. System Hazard Areas:
 1. Office & Public Areas and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
 2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq. ft. over the most remote 1500 square foot.
- END OF SECTION

BRAVO BLDG SET 04-21-2025



Client: **SUNBELT BUILDERS**
10841 HWY 8 COVINGTON GA 0014 1770798 0 1 770798 048

Project: **R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA**

Issue	Date	Initiated	Drawn	Revision	Description
02	13-25	JWK	ASEWER	ROUTING	REVISION

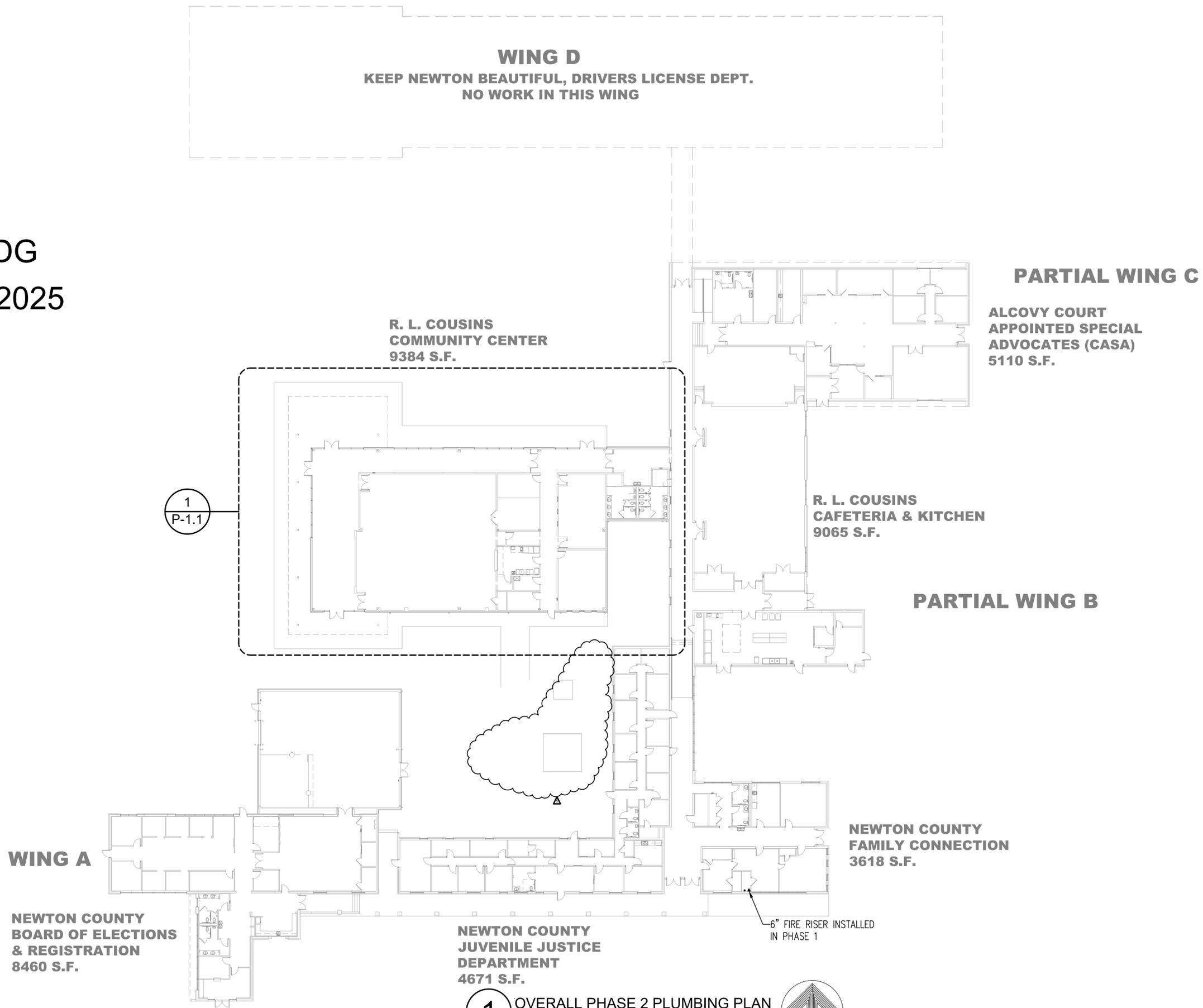
Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
FIRE SPRINKLER SPECIFICATIONS

Sheet No.:
P-0.2

PHASE 2

BRAVO BLDG
SET 04-21-2025



1 OVERALL PHASE 2 PLUMBING PLAN
 SCALE: 1"=20'-0"



TOTAL ENGINEERS
 169 New Street, Macon, GA 31201
 (478) 741-4632, T.E. Project # 23-101
 www.totalengineers.com

Client: **SUNBELT BUILDERS**
 10841 HWY 8 COWINGTON GA 30014 1770798 0 1 770798 048

Project: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COWINGTON, GEORGIA

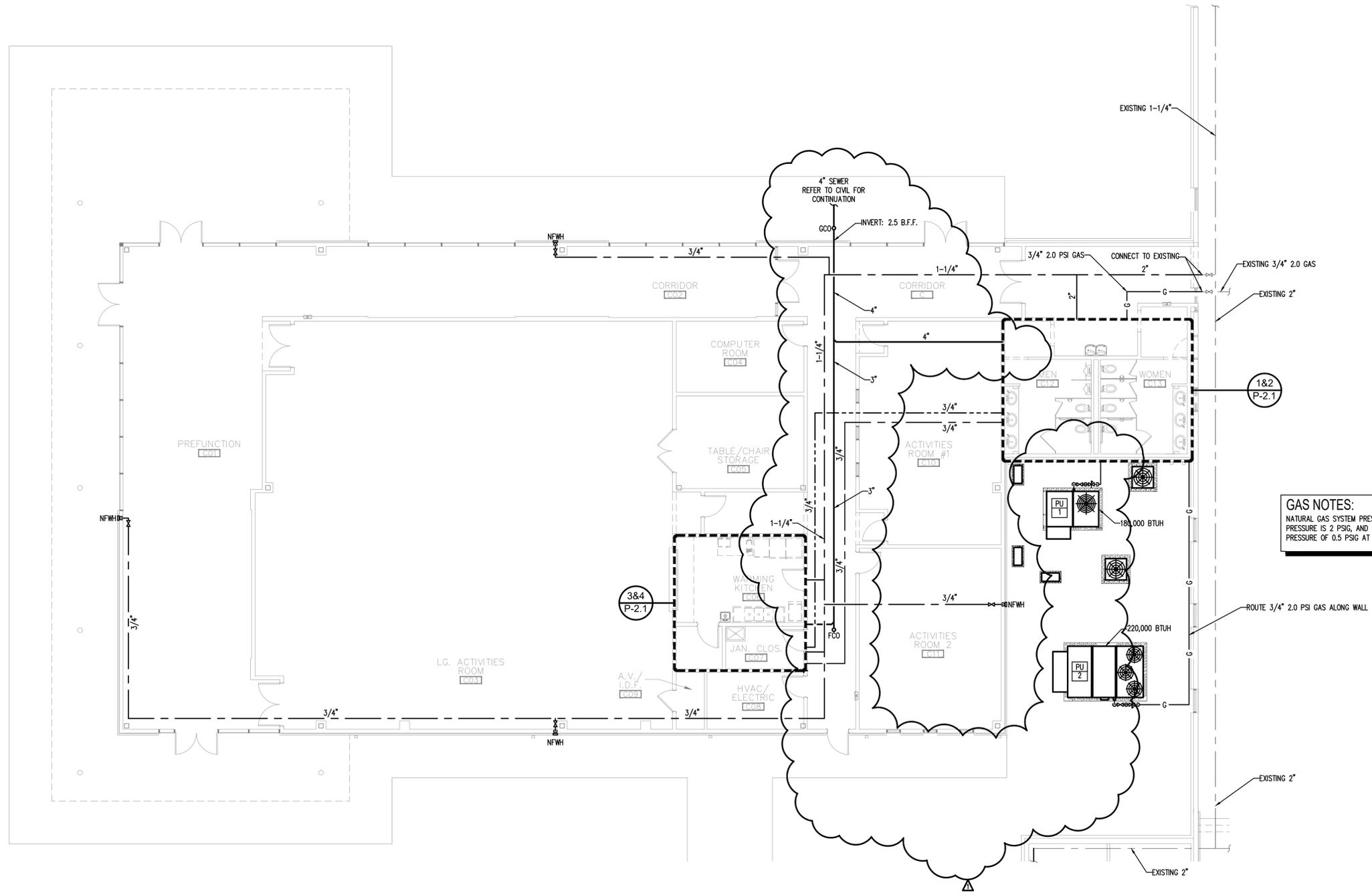
Issue	Date	Initial	Drawn	Revision	Description
	02-13-25	JWK		1	SEWER ROUTING REVISION

Project No.:
 Drwg. Date: 04/15/24
 Drwg. Revision:
 Drawn By: JWK & KMP
 Checked By: KMP
 File Name:

Sheet Title:
OVERALL PHASE 2 PLUMBING PLAN

Sheet No.:
P-1.0

PHASE 2



GAS NOTES:
 NATURAL GAS SYSTEM PRESSURES WITHIN BUILDING: PRIMARY PRESSURE IS 2 PSIG, AND IS REDUCED TO SECONDARY PRESSURE OF 0.5 PSIG AT INDIVIDUAL POINTS OF USE.

1 COMMUNITY BUILDING PLUMBING PLAN
 SCALE: 1/8"=1'-0"

BRAVO BLDG SET 04-21-2025

PHASE 2



TOTAL ENGINEERS
 169 New Street, Macon, GA 31201
 (770) 414-4632 - T.E. Project # 23-101
 www.totalengineers.com

Client: **SUNBELT BUILDERS**
 10841 HWY 8 COVINGTON GA 0014 1770780 0 1 770780 048

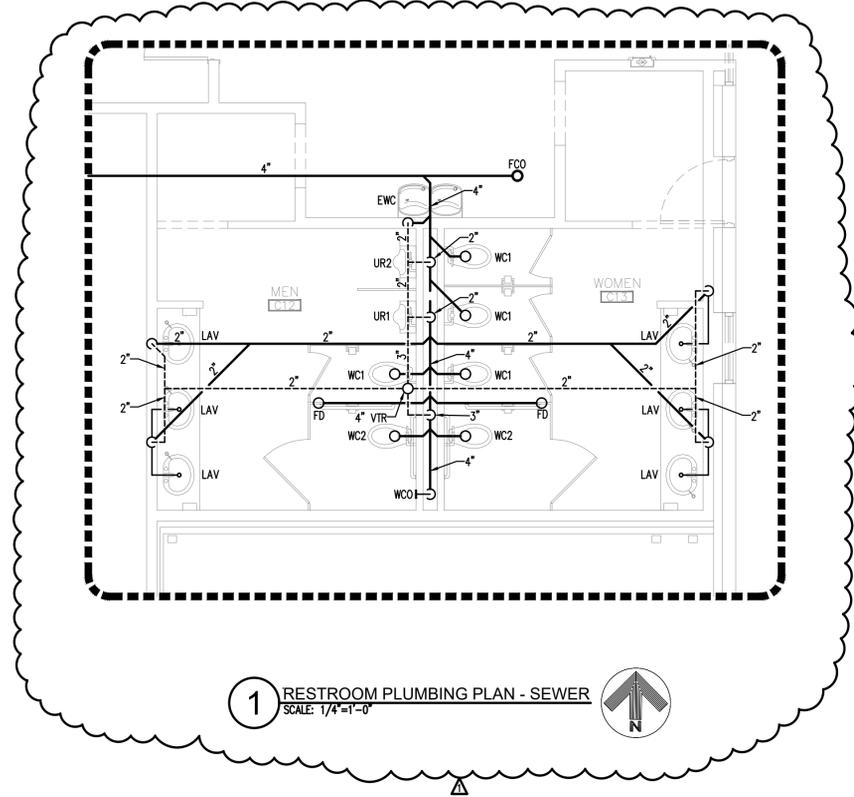
Project: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA

Issue	Date	Initial	Drawn	Revision	Description
02	13-25	JWK		1	SEWER ROUTING REVISION

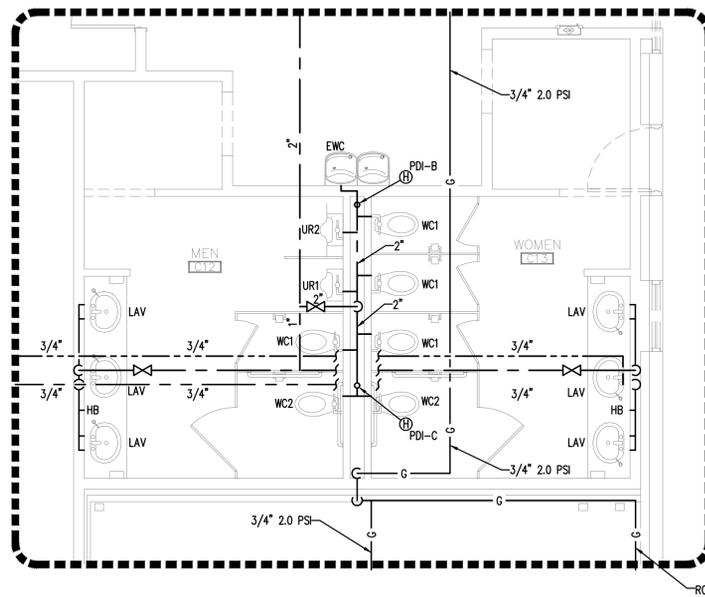
Project No.:
 Drwg. Date: 04/15/24
 Drwg. Revision:
 Drawn By: JWK & KMP
 Checked By: KMP
 File Name:

Sheet Title:
COMMUNITY BLDG PLUMBING PLAN

Sheet No.:
P-1.1

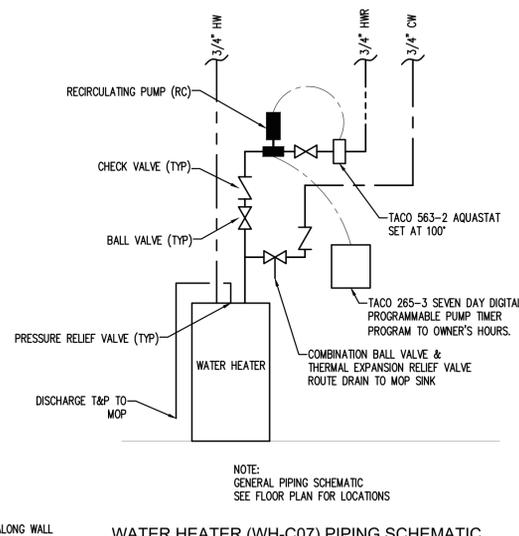


1 RESTROOM PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"

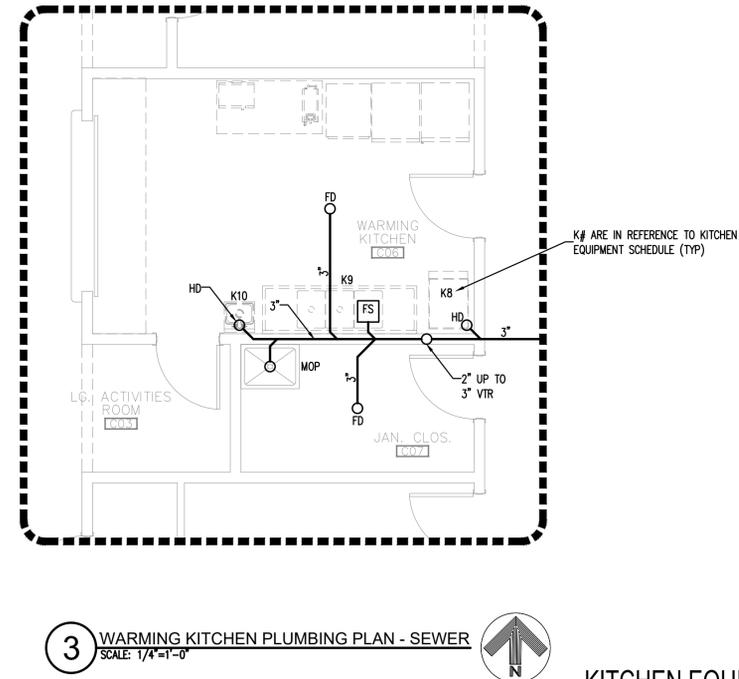


2 RESTROOM PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"

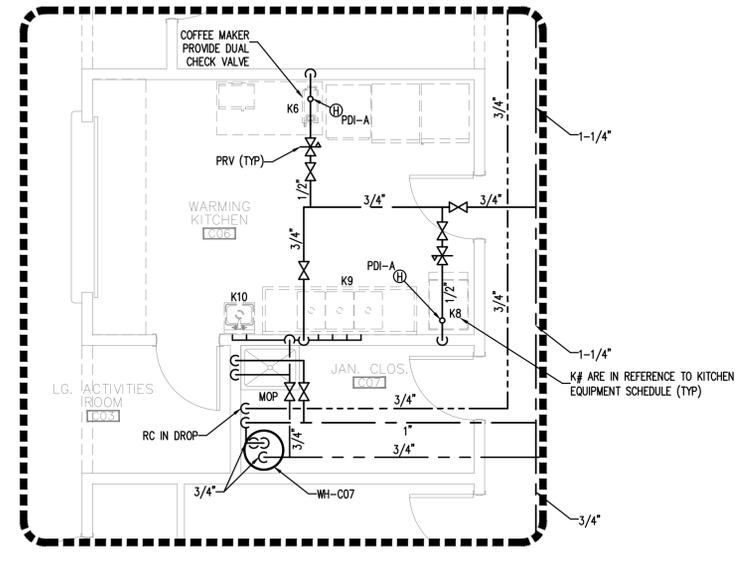
BRAVO BLDG SET 04-21-2025



WATER HEATER (WH-C07) PIPING SCHEMATIC
SCALE: N.T.S.



3 WARMING KITCHEN PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



4 WARMING KITCHEN PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"

KITCHEN EQUIPMENT NOTES:

PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, WASTE, AND VENT LINES TO KITCHEN EQUIPMENT. CONNECT TO KITCHEN EQUIPMENT THROUGH INDIVIDUAL WATER FILTERS WHEN REQUIRED BY EQUIPMENT MANUFACTURER. USE FLEXIBLE STAINLESS STEEL LINES WITH QUICK DISCONNECT CONNECTIONS. VERIFY WITH OWNERS REPRESENTATIVE EXACT LOCATION OF EQUIPMENT AND PLUMBING ROUGH IN SIZES, LOCATIONS, AND REQUIREMENTS.



TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478) 41-4632 - T.E. Project # 23-101
www.totalengineers.com

Client: **SUNBELT BUILDERS**
10841 HWY 8 CONNINGTON GA 0014 1770780 0 1 770780 048

Project: **R. L. COUSINS COMMUNITY CENTER**
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
CONNINGTON, GEORGIA

Issue	Date	Drawn	Revision	Description
02	13-25	JWK	1	SEWER ROUTING REVISION

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
R&R & KITCHEN PLUMBING PLANS

Sheet No.:
P.2.1

ELECTRICAL SPECIFICATIONS

BRAVO BLDG SET 04-21-2025

SECTION F: TELEPHONE/DATA SYSTEMS

WORK INCLUDED:

1. WORK SHALL INCLUDE PROVISIONS FOR A COMPLETE TELEPHONE/DATA CABLING SYSTEM INCLUDING: TELEPHONE/DATA COMBINATION OUTLETS, CABLING, CONDUIT, BOXES, TELEPHONE AND DATA PUNCH DOWN BLOCKS, J-HOOKS, LADDER TRAY, AND PLYWOOD BACKBOARDS.

SCOPE OF PROJECT, STANDARDS, AND DESCRIPTION:

1. THE CABLING AND WIRING PLACED FOR VOICE AND DATA COMMUNICATIONS ON THIS UNDERTAKING SHALL BE UNSHIELDED TWISTED PAIR TYPE AND CONFORM TO THE REQUIREMENTS CONTAINED IN THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC) AND THE LATEST EDITIONS OF THE FOLLOWING AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATIONS:

- A. EIA-TIA-568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
- B. STANDARD B. EIA-TIA-569 COMMERCIAL BUILDING STANDARD FOR TELECOMM. PATHWAYS AND SPACES.
- C. TIA/EIA-606 ADMINISTRATION STANDARD FOR THE TELECOMM. INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
- D. TIA/EIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
- E. SUPPLEMENTS TO EIA/TIA-568 TECHNICAL SYSTEMS BULLETINS.
- F. TSB-36 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES.
- G. TSB-40 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR HARDWARE.

WORKMANSHIP:

1. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, ARCHITECT, ENGINEER, AND/OR OWNER MAY OBSERVE THE WORK PROCEDURES AND WORKMANSHIP OF THE CONTRACTOR BUT SUCH OBSERVATION WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMANCE.

WARRANTY:

1. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THESE SPECIFICATIONS WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS AND THE CABLE PLANT/LABOR WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED AND THAT ALL DEFECTS OCCURRING WITHIN THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO THE OWNER.

CONTRACTOR'S QUALIFICATIONS:

1. CONTRACTOR SHALL BE REQUIRED, BEFORE AWARDED OF CONTRACT, TO DEMONSTRATE TO THE COMPLETE SATISFACTION OF THE ARCHITECT THAT HE HAS THE NECESSARY FACILITIES, ABILITY AND FINANCIAL RESOURCES TO EXECUTE THE WORK IN A SATISFACTORY MANNER AND WITHIN THE TIME SPECIFIED; THAT HE HAS HAD EXPERIENCE IN CONSTRUCTION WORK AS SAME OR SIMILAR NATURE; THAT HE HAS PAST HISTORY AND REFERENCES WHICH WILL ASSURE THE OWNER OF HIS QUALIFICATIONS FOR EXECUTING THE WORK.

2. CONTRACTOR SHALL SUBMIT A COPY OF A VALID LOW-VOLTAGE LICENSE (LOW-VOLTAGE GENERAL, LOW-VOLTAGE TELECOMMUNICATIONS OR LOW-VOLTAGE UNRESTRICTED AS ISSUED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD OF LOW-VOLTAGE CONTRACTORS).

3. CONTRACTOR SHALL SUBMIT A COPY OF BICSI (BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL) CERTIFIED RCDD (REGISTERED COMMUNICATIONS DISTRIBUTIONS DESIGNER) CERTIFICATE.

4. COMPREHENSIVE LIST OF REFERENCES: ATTACH A DETAILED LIST OF REFERENCES ALONG WITH CONTACT PERSON, DATES OF WORK, MAILING ADDRESS, TELEPHONE NUMBERS.

5. CONTRACTOR MUST PROVIDE PROOF OF INSTALLATION IN A MINIMUM OF FIVE SITES USING AN CATEGORY 6 STRUCTURED CABLING WITH 100 OR MORE ACTIVE (WORKING) NODES INSTALLED.

SUBMITTALS:

1. SUBMIT PRODUCT DATA CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE AND AS SPECIFIED FOR:
A. LITERATURE FOR EACH SEPARATE TYPE OF EQUIPMENT BEING PROVIDED. INDICATE MODEL NUMBER ON CUTSHEET.

B. ONE LINE SCHEMATIC OF COMPLETE SYSTEM SHOWING A FLOOR PLAN TO SCALE, SHOW LOCATIONS AND THE TYPE OF OUTLETS, AS WELL AS ALL RACK LOCATIONS, AND CABLING TYPE.
C. DOCUMENTATION OF TESTING ON ALL WIRING AND TERMINATIONS AS PER EIA/TIA STANDARDS.

MAUFACTURERS:

1. ACCEPTABLE MANUFACTURERS FOR EACH TYPE OF EQUIPMENT SPECIFIED SHALL BE AS NOTED THROUGHOUT THIS SPECIFICATION SECTION.

2. THE ACCEPTABLE MANUFACTURERS NOTED SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/ REPRESENTATIVE FOR THAT PRODUCT.

3. THE CONTRACTOR SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTOR'S LICENSE AND RCDD CERTIFICATE. ANY OTHER INTERESTED PARTIES SHALL SUBMIT A COMPANY RESUME SHOWING YEARS IN BUSINESS, CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL AND THAT HE MAINTAINS A FULLY EQUIPPED AND STOCKED SERVICE SHOP AND SHALL RESPOND TO SERVICE CALLS WITHIN 12 NORMAL WORKING HOURS, LIST OF KEY PERSONNEL, COPIES OF APPROPRIATE LICENSES AND LIST OF RECENTLY COMPLETED JOBS.

TELEPHONE/DATA JACK AND OUTLET SPECIFICATIONS:

1. LOCATIONS SHOWN ON DRAWINGS WILL BE EQUIPPED WITH A CONSISTENT ARRANGEMENT OF LAN COMMUNICATIONS OUTLETS. PROVIDE JACKS IN OUTLETS (AS DETAILED ON DRAWING). PROVIDE COLORED ICONS AS INDICATED ON DRAWINGS.
2. OUTLET FACEPLATE FOR THIS ARRANGEMENT SHALL BE CONFIGURED IN THE FOLLOWING FASHION:

A. THE JACKS USED SHALL FIT PROPERLY IN THE OUTLET OPENINGS OF THE OUTLET FACEPLATE. THE JACKS USED ALSO CONFORM TO PARAMETERS SET IN EIA/TIA 568, TSB36 AND TSB40A.

B. IN A PROPERTY INSTALLED CATEGORY 6 UTP WIRING ARRANGEMENT. C. THE WIRING ARRANGEMENT OF THE JACK SHALL CONFORM TO THE EIA/TIA 568, TSB36 AND TSB40A.

3. THE JACK SHALL POSSESS THE FOLLOWING CHARACTERISTICS:

A. THE EIGHT (8) POSITION/ EIGHT (8) CONDUCTOR JACK SHALL BE CAPABLE OF SUPPORTING THE PREVIOUSLY DEFINED DATA RATES AS WELL AS VOICE INCLUDING ISDN.

B. UTILIZATION OF 110 TYPE OR EQUIVALENT INSULATION DISPLACEMENT HARDWARE FOR HORIZONTAL WIRE ATTACHMENT AND ACCEPTANCE OF 22 OR 24 AWG CONDUCTORS.

C. THE JACK WIRES SHALL CONSIST OF 50 MICRO-INCH LUBRICATED GOLD PLATING OVER 100 MICRO-INCH NICKEL UNDERPLATING.

D. ANY VACANT FACEPLATE POSITION SHALL BE RESERVED FOR FUTURE GROWTH AND SHOULD HAVE A DUST COVER/BLANK INSERTED.

4. ACCEPTABLE MANUFACTURER'S: ORTRONICS, SERIES I568 B JACKS AND HUBBELL.
5. WIRELESS ACCESS POINTS SHALL HAVE A BISCUIT JACK AT THE CEILING WITH TWO CAT 6 CABLES AND JACKS.

TELEPHONE/DATA HORIZONTAL WIRING SPECIFICATIONS: (BERK-TEK LANMARK 1000 (CAT 6) CABLE)

1. THIS SECTION COVERS THE CABLE FROM THE COMMUNICATIONS OUTLETS TO THE PUNCH DOWN BLOCK. THESE CABLES SHALL BE AS INDICATED ON DRAWINGS UNSHIELDED TWISTED PAIR CABLE. EACH CABLE SHALL BE PLACED IN A POINT-TO-POINT FASHION FROM THE OUTLET TO THE WIRING CLOSET FOR EACH COMMUNICATIONS OUTLET NEEDED. THERE SHALL BE NO INTERMEDIATE SPLICES OR CROSS CONNECTS IN THESE CABLES. PROVIDE ONE (1) CABLE FOR EACH JACK. SEE DRAWINGS FOR NUMBER OF JACKS IN EACH OUTLET. CABLE SHALL BE BLUE IN COLOR, CABLE SHALL BE PLENUM RATED.

2. THE CHARACTERISTICS OF THE HORIZONTAL CABLE ARE AS FOLLOWS:
A. CABLE CONSISTING OF FOUR (4) PAIR OF 23 AWG BARE SOLID COPPER CONDUCTORS INSULATED WITH A PLENUM RATED MATERIAL. THE INSULATED CONDUCTORS ARE TIGHTLY TWISTED INTO PAIRS AND JACKETED WITH FLOUROPOLYMER. NO TYPE OF SHIELD IS REQUIRED IN THE SHEATH.

B. EACH SHEATH SHALL CONTAIN FOUR (4) UNSHIELDED COPPER PAIRS. EACH PAIR SHALL HAVE A DIFFERENT TWIST PER FOOT RANGING FROM 12 TO 24 TWISTS PER FOOT. NO MORE THAN 1/2 INCH MAY BE UNTWISTED AND THE SHEATH MAY NOT BE STRIPPED BACK MORE THAN 1/2 INCH AT THE JACK DURING INSTALLATION.

3. THE CABLE SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
A. EIA/TIA 568 "COMMERCIAL BUILDING WIRING STANDARD," HORIZONTAL CABLE SECTION.

- B. EIA/TIA TSB-36 "TECHNICAL SYSTEM BULLETIN ADDITIONAL CABLE SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES, "CATEGORY 6".
- C. PROPOSED ANSI X319.5 REQUIREMENTS FOR UTP AT 100 MBPS.
- D. CERTIFIED LEVEL 6 CABLE UNDER UL'S LAN CABLE CERTIFICATION PROGRAM.
- E. IEEE 802.3
- F. ICEA S80-576
- G. UL SUBJECT 444
- H. PUB 48007
- I. TA-TS000133
- J. NATIONAL ELECTRIC CODE - ARTICLE 800

4. THE CABLES SHALL MEET THE FOLLOWING REPRESENTATIVE ELECTRICAL AND TRANSMISSION CHARACTERISTICS:

- A. MUTUAL CAPACITANCE (PF/FT.): 14 (NOM.)
- B. IMPEDANCE Z (OHMS FROM 1-25 MHZ): 100 (\pm -15%)
- C. DC RESISTANCE - MAX. - (OHMS/1000 FT.): 28.6
- D. ATTENUATION - MAXIMUM: FREQUENCY (MHZ) - DB/1000 FT. - DB/100 M.
 - 1 - 6.3 - 2.1
 - 4 - 13 - 4.3
 - 10 - 20 - 6.6
 - 16 - 25 - 8.2
 - 20 - 28 - 9.2
 - 25 - 32 - 10.2
 - 31.25 - 36 - 11.8
 - 62.5 - 52 - 17.1
 - 100 - 67 - 21.9

(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)

E. WORST PAIR-TO-PAIR NEAR END CROSSTALK: FREQ. (MHZ) - WORST PAIR NEXT - (DB)

- 1 - 62
- 4 - 53
- 10 - 47
- 16 - 44
- 20 - 42
- 25 - 41
- 31.25 - 40
- 62.5 - 35
- 100 - 32

(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)

DATA PATCH PANEL SPECIFICATIONS:

1. THIS SECTION COVERS THE TERMINATION HARDWARE LOCATED ON THE WALL DATA BACKBOARD. THE TERMINATION HARDWARE SHALL PROVIDE THE CAPABILITY TO BE ABLE TO PATCH CONNECTIONS BETWEEN PORTS ON THE LAN HARDWARE ELECTRONICS BY OTHERS, N.I.C.) AND HORIZONTAL CABLES TO THE OUTLETS.

2. THE PATCH PANELS SHALL BE CATEGORY 6 MODULAR JACK PANELS (ORTRONICS CAT 6 OR HUBBELL).

3. THE TERMINATION HARDWARE SHALL BE LOCATED ON 19 IN. WALL MOUNTED CABINET. THE CONFIGURATION OF THE PATCH PANELS SHALL BE IN AN AGREEMENT THAT MINIMIZES PATCH CORD LENGTHS. PROVISIONS FOR CABLE MANAGEMENT AND PATCH CORDS (ORGANIZATION OF HORIZONTAL CABLE AND PATCH CORDS) ON THE RACK SHOULD BE INCLUDED.

4. POTENTIAL HORIZONTAL CABLES TO THE OUTLETS WILL BE DIRECTLY CONNECTED TO 110 INSULATION DISPLACEMENT HARDWARE OR EQUIVALENT ASSOCIATED WITH EACH JACK ON THE PATCH PANEL. THE JACKS ON THE PATCH PANEL SHALL BE WIRED TO THE EIA 568B WIRING STANDARD.

5. CATEGORY 6, FACTORY BUILT, MANUFACTURE TESTED PATCH CORDS SHALL BE PROVIDED FOR EACH HUB/SWITCH-PORT PROVIDED.

FIBER OPTIC BACKBONE: (SERVICE TO BUILDING BY SERVING UTILITY)
TELEPHONE CABLES SHALL BE THE SAME AS DATA TERMINATIONS AT OUTLET AND PATCH PANEL.

CONDUIT, RACEWAY, AND BACKBOARDS:

1. PROVIDE 1/2 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

2. WHERE PLASTER OR UNACCESSIBLE CEILINGS ARE PRESENT, PROVIDE 1/2 IN. EMT FROM EACH OUTLET TO TELEPHONE BACKBOARD OR TELEPHONE CONNECTION POINT AS DESCRIBED IN THE CONTRACT DOCUMENTS. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

3. SERVICE CONDUIT: PROVIDE (4) 3 INCH CONDUIT AND CABLE IN LOCATIONS NOTED ON DRAWINGS. FROM 0-MARK POINT OUTSIDE BUILDING TO COMM ROOM. FIBER SERVICE BY SERVING UTILITY COMPANY.

4. BACKBOARD: PROVIDE PLYWOOD BACKBOARD AS DESCRIBED UNDER "SUPPORTING DEVICES" IN THESE ELECTRICAL SPECIFICATIONS.

CABLE MANAGEMENT PANEL:

1. PAINTED STEEL PANEL FOR STANDARD 19 IN. RACK MOUNTING, WITH FIVE HORIZONTAL 3 IN. X 4 IN. CABLE MANAGEMENT RINGS.

UNINTERRUPTIBLE POWER SUPPLY FOR DATA RACK:

1. THE NETWORK HUB/SWITCH UNIT SHALL BE PLUGGED INTO AN UNINTERRUPTIBLE POWER SUPPLY WHICH OPERATES IN A HOT STANDBY STATE WHEN THE AC POWER IS PRESENT, PROVIDING POWER OF CONSISTENT QUALITY. ALSO, THE SWITCH TIME MUST NOT BE MORE THAN 3.5 MICROSECONDS. UPS SHALL BE RACK MOUNTED AND BE A MINIMUM OF 1000 VA CAPACITY.

PULL AND JUNCTION BOX COVER IDENTIFICATION:

1. SEE EQUIPMENT IDENTIFICATION IN THIS ELECTRICAL DIVISION OF THE SPECIFICATIONS.

LABELING:

1. SYSTEM SHALL BE COMPLETELY LABELED, WITH CIRCUIT NUMBERS INDICATED ON THE PATCH PANELS, RACKS, AND BOTH ENDS OF THE CABLE. PROVIDE A LIST INDICATING CIRCUIT NUMBERS INSTALLED TO EACH SPACE.

TESTING AND CERTIFICATION:

TESTING COPPER DISTRIBUTION SYSTEMS ARE CRUCIAL IN ASSURING THE OVERALL INTEGRITY AND SATISFACTORY PERFORMANCE OF THE NETWORK. TEST RESULTS QUANTIFY SYSTEM QUALITY, IDENTIFY SYSTEM FAILURES, AND ESTABLISH THE BASELINE ACCOUNTABILITY PERFORMANCE OF THE SYSTEM. PROPER TESTING ALSO MAXIMIZES THE LONGEVITY OF THE SYSTEM, MINIMIZES DOWNTIME AND MAINTENANCE, AND FACILITATES SYSTEM UPGRADES OR RECONFIGURATION.

2. THE CONTRACTOR SHALL PROVIDE PROOF OF COMMUNICATIONS WIRING SYSTEMS CERTIFICATION AND TESTING CERTIFICATION.

3. ALL DATA WIRING AND TERMINATIONS SHALL BE TESTED AND MUST PASS EIA/TIA STANDARDS FOR CATEGORY 6 WIRING. ALL WIRING AND TERMINOLOGY FOR VOICE CABLE SHALL BE TESTED FOR CONTINUITY. ALL FAULTS SHALL BE CORRECTED.

4. ALL TEST RESULTS MUST BE PRINTED AND SHOW THE FOLLOWING RESULTS: IMPEDANCE (TDR), CABLE LENGTH, ATTENUATION, NEAR END CROSS TALK (NEXT), LINE MAPPING, DC OHMS, OTDR.

GUARANTEES:

1. ALL COMMUNICATION OUTLETS WIRED AND SERVICEABLE MUST BE TESTED AND CERTIFIED IN COMPLIANCE WITH THE ANSI/IEEE 802.3 AND EIA/TIA 568 CATEGORY 6 SPECIFICATIONS. TESTING MUST BE "END-TO-END"; TEST RESULTS SHALL BE FORWARDED TO ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO FINAL INSPECTION.

SECTION G: TELEVISION DISTRIBUTION SYSTEM

SUBMITTALS:

1. SHOP DRAWINGS CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE.

MANUFACTURERS:

1. ACCEPTABLE MANUFACTURERS ARE LEVITON AND WEST PENN.

2. THE ACCEPTABLE MANUFACTURERS SYSTEMS LISTED ABOVE SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/REPRESENTATIVE FOR THAT PRODUCT. THE FACTORY DEALER/REPRESENTATIVE SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTOR'S LICENSE.

SCOPE:

1. PROVIDE A COMPLETE OPERATIONAL CABLE ELECTRONIC DISTRIBUTION SYSTEM INCLUDING CONDUIT, WIRING, SPLITTERS, OUTLETS, J-HOOKS, AND ALL OTHER ACTIVE AND INACTIVE DEVICES NECESSARY FOR THE ACQUISITION, PROCESSING AND DISTRIBUTION OF TELEVISION CHANNELS.

GENERAL REQUIREMENTS:

1. ALL EQUIPMENT SHALL BEAR THE LABEL OF UNDERWRITER'S LABORATORIES AND BE TESTED FOR USE UNDER THEIR RE- EXAMINATION SERVICE.

2. ALL WIRING SHALL BE RUN IN CONDUIT/J-HOOK SYSTEM AND TV SUBCONTRACTOR SHALL PULL ALL WIRE AND MAKE UP ALL CONNECTIONS.

3. THE ENTIRE DISTRIBUTION SYSTEM SHALL COMPLY WITH FCC RADIATION REGULATIONS.

4. THE TELEVISION SYSTEM INSTALLER SHALL BE AN AUTHORIZED DISTRIBUTOR FOR THE EQUIPMENT SUPPLIED UNDER THIS CONTRACT. HE SHALL MAINTAIN UNDER HIS DIRECT CONTROL A SERVICE ORGANIZATION CAPABLE OF FURNISHING SERVICE UNDER THE FOLLOWING WARRANTY STATEMENT:

THE WARRANTY SHALL COVER SERVICE, TRAVEL, AND PARTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, WITH A SECOND YEAR SERVICE CONTRACT TO BE OFFERED UPON EXPIRATION OF THE WARRANTY. THE PRICE OF THE SECOND YEAR CONTRACT OFFER SHALL BE SPECIFIED AT THE TIME THE ORIGINAL CONTRACT IS ACCEPTED. INSTALLER EMPLOYED BY THE CONTRACTOR SHALL POSSESS THE APPROPRIATE LOW VOLTAGE INSTALLER LICENSE ISSUED BY THE GEORGIA SECRETARY OF STATE.

5. THE TV SYSTEM INSTALLER SHALL COORDINATE SERVICE INSTALLATION WITH THE LOCAL CABLE TV COMPANY MAKING ALL ARRANGEMENTS FOR CABLE SERVICE AND PAYING ALL COSTS ASSOCIATED WITH SAME.

EQUIPMENT:

1. SPLITTING/COMBINING DEVICES SHALL BE HYBRID TYPE, HAVING ESSENTIALLY FLAT RESPONSE ACROSS THE FREQUENCIES UTILIZED ON THE SYSTEM. ALL SPLITTERS AND DIRECTIONAL COUPLERS SHALL BE HOUSED IN ENVIRONMENTAL HOUSING. ALL DEVICES SHALL HAVE "F" TYPE FITTINGS. DIRECTIONAL COUPLERS SHALL BE JERROLD DC-B SERIES. SPLITTERS SHALL BE JERROLD I596C/I597B.

2. TV OUTLET SHALL BE AN ALL-CHANNEL FEED THROUGH UNIT (O-DB) FOR CONNECTING THE TV SIGNAL TO THE OWNER FURNISHED TV. THE UNIT SHALL HAVE A PATENTED UNIVERSAL BUSHING CABLE CONNECTOR WHICH FITS CAC-6 TYPE CABLE. AN IVORY PLASTIC SADDLE SHALL BE FURNISHED AND THE OUTLET SHALL BE ADAPTABLE TO A STANDARD DUPLEX, STAINLESS STEEL COVERPLATE, JERROLD UT-12.

3. COAXIAL CABLE SHALL BE 75 OHMS NOMINAL IMPEDANCE AND SHALL BE MARKED WITH THE MANUFACTURER'S NAME. EACH CARTON OR ROLL OF CABLE SHALL DISPLAY CERTIFICATION THAT IT HAS BEEN SWEEP TESTED BY THE MAKER BEFORE SHIPPING. THE CABLE SHALL BE JERROLD CAC-II TYPE. HEAD END HOOK-UP CABLES AND TV SET CONNECTING CABLES SHALL BE OF THE RG-6 TYPE. SUPPLY ONE TV SET CONNECTING CABLE OF RG-6 WITH "F" AND "C" CONNECTORS FOR EACH OUTLET. CABLE SHALL BE RATED FOR UNDERGROUND INSTALLATION.

4. POTENTIAL HORIZONTAL CABLES TO THE OUTLETS WILL BE DIRECTLY CONNECTED TO 110 INSULATION DISPLACEMENT HARDWARE OR EQUIVALENT ASSOCIATED WITH EACH JACK ON THE PATCH PANEL. THE JACKS ON THE PATCH PANEL SHALL BE WIRED TO THE EIA 568B WIRING STANDARD.

5. CATEGORY 6, FACTORY BUILT, MANUFACTURE TESTED PATCH CORDS SHALL BE PROVIDED FOR EACH HUB/SWITCH-PORT PROVIDED.

EXECUTION:

1. BEFORE THE CONTRACT IS CONSIDERED COMPLETE, THE CONTRACTOR MUST CONDUCT AN OPERATING TEST FOR APPROVAL. THE SYSTEM MUST BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

CONDUIT SYSTEM:

1. PROVIDE CONDUIT AND OUTLET BOXES FOR THE INSTALLATION OF TELEVISION WIRING TO TELEVISION HEAD AND LOCATION.

2. LOCATION OF TV OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS.

3. HEIGHT OF TV OUTLETS SHALL BE AS NOTED ON THE DRAWINGS. ALL OUTLET BOXES SHALL BE TWO GANG TYPE, 4 IN. X 4 IN. X 2 1/4 IN. DEEP, WITH SINGLE GANG PLASTER RINGS. PLASTER RINGS SHALL BE 11/2 IN. DEEP AND SHALL BE FLUSH WITH THE FINISH OF WALL.

4. TV OUTLET BOXES SHALL HAVE ONLY ONE ENTRY OF 3/4" CONDUIT. DO NOT USE OUTLET BOX AND POINT BECAUSE THE EQUIPMENT SMALL ENOUGH TO FIT THIS SIZE IS NOT ACCEPTABLE.

5. CONDUIT AND OUTLET BOXES AND THEIR INSTALLATION SHALL BE AS COVERED UNDER SECTION B OF THESE SPECIFICATIONS.

SECTION H: DRY TYPE TRANSFORMERS

DRY TYPE TRANSFORMER:

1. MANUFACTURERS: ACCEPTABLE MANUFACTURERS ARE AS FOLLOWS: SQUARE D, GENERAL ELECTRIC, EATON, OR SIEMENS.

2. GENERAL: TRANSFORMERS SHALL BE RATED 480 VOLT DELTA (20/208 VOLT WYE OR AS OTHERWISE NOTED WITH KVA RATINGS AS INDICATED ON DRAWINGS. AUTOTRANSFORMERS ARE NOT ACCEPTABLE.

3. ENCLOSURES: ALL VENTILATING OPENINGS SHALL BE OF THE LOUVERED TYPE. THE BASE OF THE TRANSFORMER SHALL BE CONSTRUCTED OF MINIMUM TWELVE GAUGE STEEL WITH STAMPED OPENINGS FOR VENTILATION. THE ENCLOSURE COATING SHALL BE UL RECOGNIZED FOR OUTDOOR USE, COLOR ANSI-49.

4. TAPS: ALL TRANSFORMERS 15 KVA AND LARGER SHALL HAVE TWO 2-1/2% FULL CAPACITY TAPS ABOVE AND FOUR 2-1/2% FULL CAPACITY TAPS BELOW NORMAL RATED PRIMARY VOLTAGE.

5. INSULATION: TRANSFORMERS WITH THE RATINGS THROUGH 25 KVA SHALL HAVE EITHER CLASS B INSULATION AND BE DESIGNED SO THAT UNDER FULL LOAD THE AVERAGE CONDUCTOR TEMPERATURE DOES NOT EXCEED 80 DEGREE C RISE ABOVE 40 DEGREE C AMBIENT, OR CLASS H INSULATION AND BE DESIGNED SO THAT UNDER FULL LOAD THE AVERAGE CONDUCTOR TEMPERATURE DOES NOT EXCEED 115 DEGREE C RISE ABOVE 40 DEGREE C AMBIENT.

TRANSFORMERS WITH RATINGS 30 KVA OR LARGER SHALL BE CONSTRUCTED WITH CLASS H INSULATION AND SO DESIGNED THAT UNDER FULL LOAD THE AVERAGE CONDUCTOR TEMPERATURE DOES NOT EXCEED 115 DEGREE C RISE.

COILS:

A. TRANSFORMER COILS MUST BE VACUUM IMPREGNATED WITH NON-HYDROSCOPIC, THERMOSETTING VARNISH, AND SHALL HAVE A FINAL WRAP OF ELECTRIC INSULATING MATERIAL DESIGNED TO PREVENT INJURY TO THE MAGNET WIRE. TRANSFORMERS HAVING COILS WITH MAGNET WIRE VISIBLE WILL NOT BE ACCEPTABLE.

B. THE CORE AND COIL SHALL BE ISOLATED FROM THE ENCLOSURE BY MEANS OF VIBRATION ABSORBING MOUNTS. THERE SHALL BE NO METAL-TO-METAL CONTACT BETWEEN THE CORE AND COIL AND THE ENCLOSURE ON UNITS 500 KVA AND SMALLER. THE VIBRATION ISOLATING SYSTEM SHALL BE SO DESIGNED AS TO PROVIDE FOR CONTINUAL SECUREMENT OF THE CORE AND COIL UNIT TO THE ENCLOSURE.

C. NEUTRAL TERMINAL SIZE SHALL BE DOUBLED (200% OF SECONDARY RATED PHASE CURRENT) FOR OVERSIZE NEUTRAL INSTALLATION.

D. SOUND LEVELS SHALL NOT EXCEED: 15 TO 50 KVA - 45 DB; 51 - 150 KVA - 50 DB; OR AS OTHERWISE NOTED ON THE DRAWINGS.

E. TRANSFORMER SHALL CONTAIN FULL WIDTH ELECTROSTATIC.

F. TRANSFORMERS SHALL BE CONSTRUCTED OF REDUCED CORE FLUX TO COMPENSATE FOR HARMONIC DISTORTION.

INSTALLATION:

1. THE CORE AND COILS SHALL BE VISIBLY GROUNDED TO THE FRAME OF THE TRANSFORMER CUBICLE BY MEANS OF A FLEXIBLE GROUNDING STRAP.

2. PROVIDE RUBBER-IN-SHEAR VIBRATION ISOLATOR UNDER EACH TRANSFORMER CORNER, BOLT THE ISOLATOR TO THE TRANSFORMER AND TO THE HOUSEKEEPING PAD.

3. COORDINATE TRANSFORMER SUSPENSION WITH ARCHITECT TO MINIMIZE NOISE TRANSMISSION. IN EACH SUSPENSION ROD, PROVIDE A SPRING HANGER ISOLATOR.



Client: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
CONNINGTON, GEORGIA.

Issue	Date	By	Description
06-27-24	TAW	FOR CONSTRUCTION	

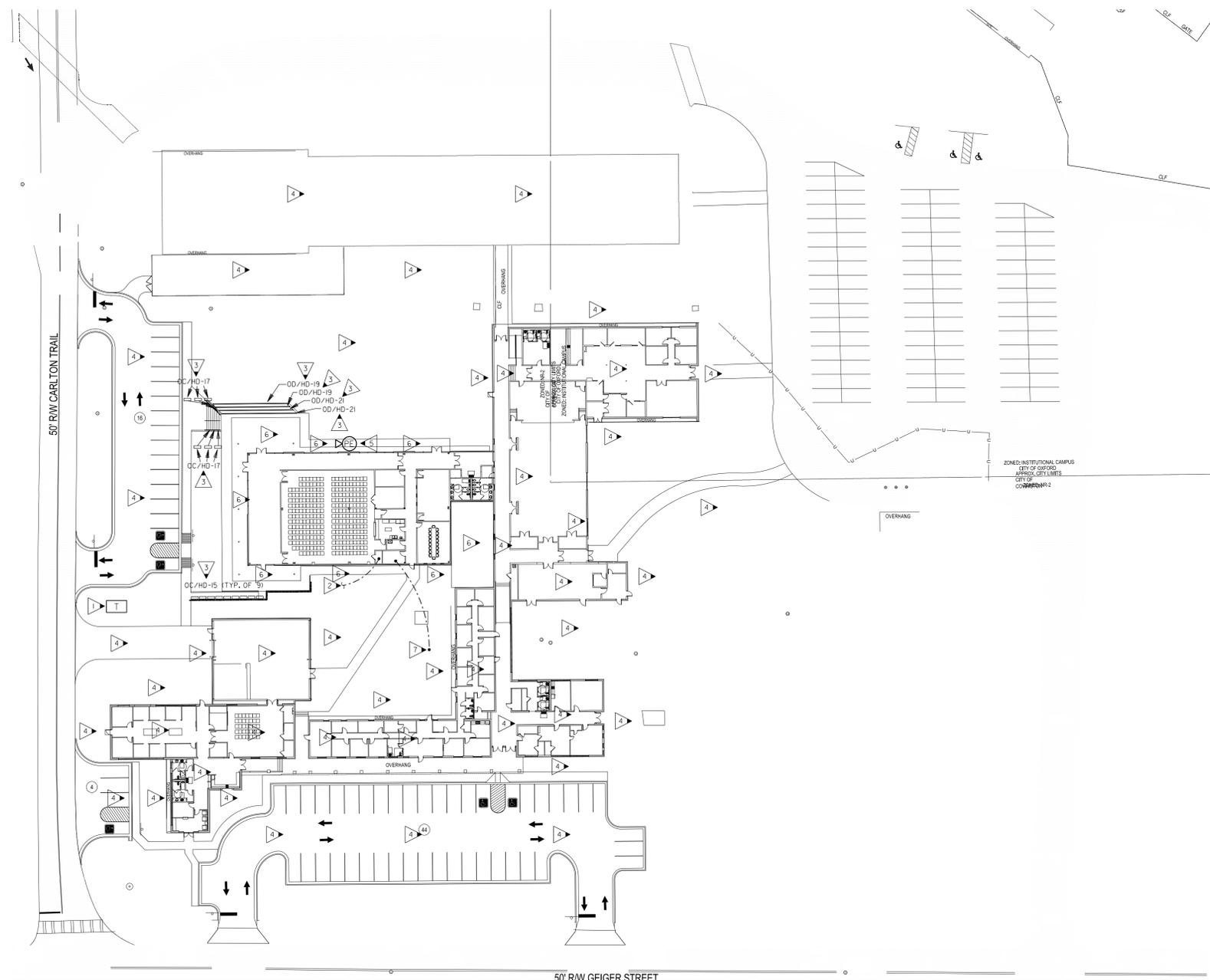
Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
ELECTRICAL SPECIFICATIONS

Sheet No.:
E-0.2

PHASE 2

© BETA DESIGN GROUP, P.C., 2014. This drawing may be utilized only for the purpose of constructing or installing the work shown thereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group P.C., is prohibited.



1 SITE PLAN - ELECTRICAL
E-1.1 SCALE: 1"=40'-0"

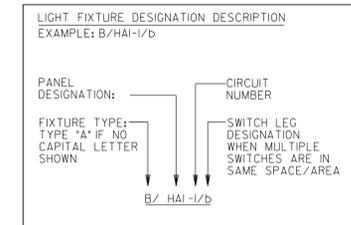
BRAVO BLDG SET 04-21-2025

KEYED NOTES: (THIS SHEET ONLY)

- 1 EXISTING LOCATION OF TRANSFORMER SET DURING PHASE 1 OF CONSTRUCTION. FIELD VERIFY EXACT LOCATION.
- 2 (4) 3 IN. CONDUITS FROM CORNER OF MDF ROOM SHOWN TO D.MARK FOR CATV, DATA/TEL AND ONE SPARE WERE PROVIDED IN PHASE 1 OF CONSTRUCTION. VERIFY EXACT STUB OUT LOCATIONS OF LAID UNDERGROUND CONDUIT PRIOR TO ANY ELECTRICAL WORK.
- 3 ROUTE VIA 8 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 5 ON SHEET E-2.1. USE #8'S ENTIRE CIRCUIT IN 1 IN. CONDUIT UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
- 4 NO WORK IN THIS AREA DURING THIS PHASE OF CONSTRUCTION UNLESS NOTED OTHERWISE. REFER TO PHASE 1 CONSTRUCTION PLANS FOR WORK DONE IN THE AREA.
- 5 LOCATE P.E. CELL FACING NORTH, CLEAR OF MAN MADE LIGHT SOURCES. J-BOX TO HOUSE P.E. CELL SHALL BE RECESSED MOUNTED WITH STAINLESS STEEL COVER.
- 6 SEE COMMUNITY BUILDING PLAN - LIGHTING, I/E-2.1 FOR ADDITIONAL EXTERIOR LIGHTING IN THIS AREA.
- 7 (2) EXISTING SETS OF 4 IN. C. PROVIDED DURING PHASE 1 CONSTRUCTION FROM MAIN ELECTRICAL ROOM TO THE COMMUNITY BUILDING'S ELECTRICAL ROOM. CONDUIT TO BE USED FOR COMMUNITY BUILDING SERVICE. REFER TO POWER RISER DIAGRAM, I/E-5.1. VERIFY EXACT STUB UP LOCATIONS OF CONDUITS PRIOR TO ANY ELECTRICAL WORK.

GENERAL NOTES: (THIS SHEET ONLY)

- A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICAL SURVEYS AND OTHER TRADES.
- B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.
- D. CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN. ALL NEW INSTALLATION SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.
- E. PROVIDE HAND-HOLES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN.
- F. PROVIDE 120V POWER TO ALL ELECTRONIC WATER METERS. SEE PLUMBING AND CIVIL DRAWING FOR QUANTITIES AND LOCATIONS.



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

PHASE 2



ELECTRICAL DESIGN
EDC
CONSULTANTS, INC.
175 NEW ST., STE. 1
MACON, GA. 31201
ECC-124004

Client:
SUNBELT
BUILDERS
10641 HWY. 36, CONNINGTON, GA. 30014, TEL: 770.786.3031

Project:
R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue	Date	Initiated	Drawn	Revision	Description
06-27-24	TAW				FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
SITE PLAN - ELECTRICAL

Sheet No.:
E-1.1

© BETA DESIGN GROUP, P.C., 2014. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group P.C. is prohibited.



ELECTRICAL DESIGN
3D CONSULTANTS, INC.
 175 NEW ST., STE. 1
 MACON, GA 31201
 EDC-124004

Client:
SUNBELT
 UTILITIES

Project:
R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA.

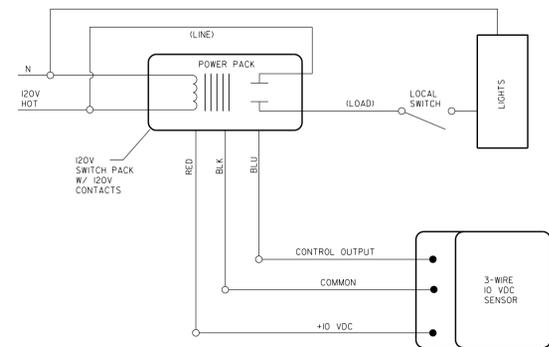
Issue Date: 06-27-24
 Drawn By: TAW
 Checked By: JHM
 File Name:
 Project No.: 2023012
 Drwg. Date: 06/27/24
 Drwg. Revision:
 Sheet Title:
COMMUNITY BUILDING PLAN - LIGHTING
 Sheet No.:
E-2.1

GENERAL NOTES:

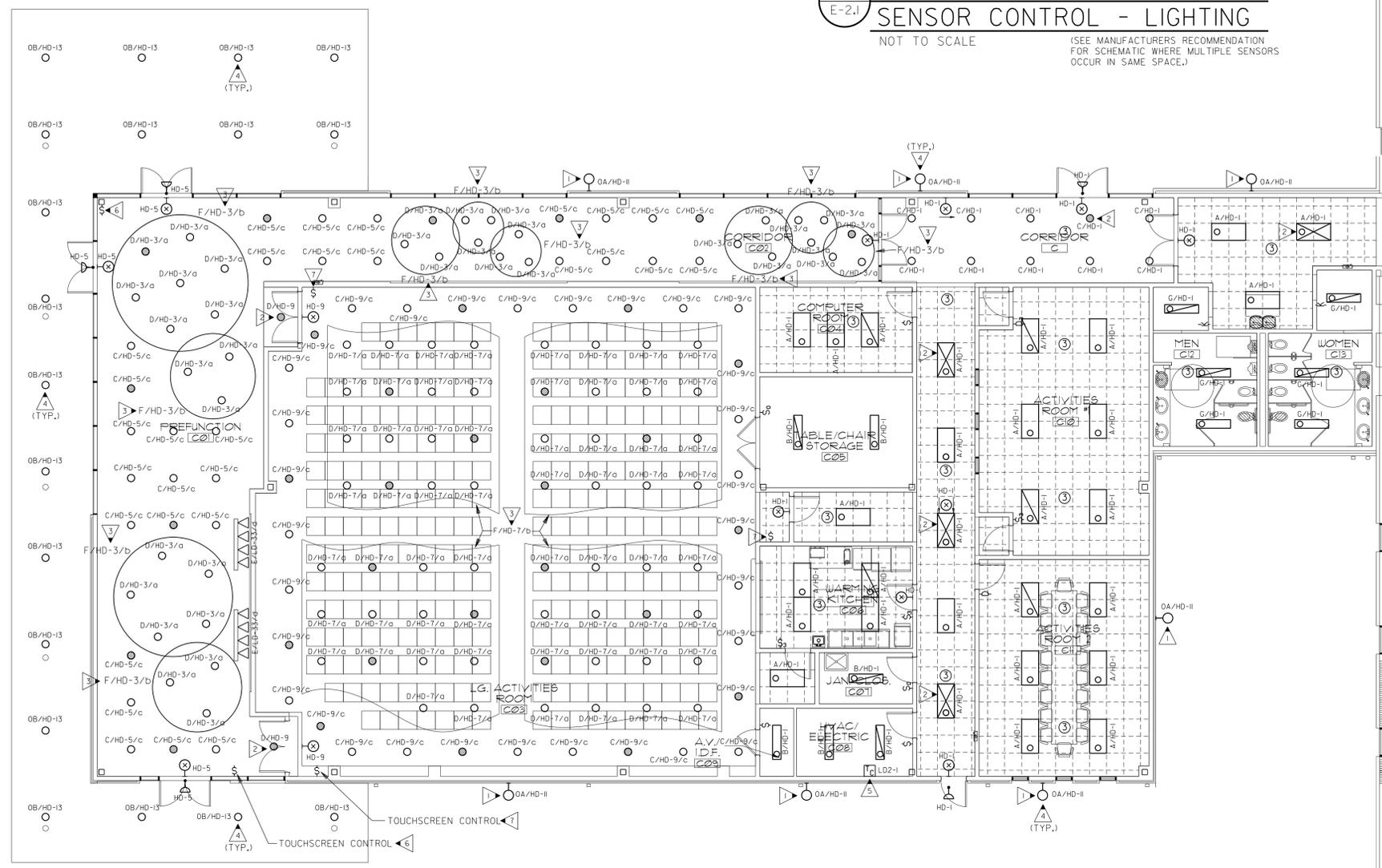
- A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.
- B. ALL AREAS OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL AND ELECTRICAL ROOMS).
- C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.
- D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.
- E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8" IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.
- F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.

KEYED NOTES: (THIS SHEET ONLY)

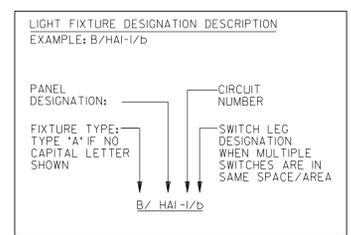
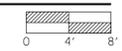
- 1. COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ELECTRICAL ROUGH-IN.
- 2. UNSWITCHED NIGHT LIGHT FIXTURE.
- 3. FIXTURE TYPE F MOUNTED AROUND THE PERIMETER OF THE GYPSUM BOARD CLOUDS FOR UPLIGHTING. COORDINATE EXACT LENGTHS REQUIRED FOR FIXTURE TYPE F WITH SHOWN LAYOUT.
- 4. ROUTE VIA 8 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. EXISTING MAIN BUILDING PHOTOCELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 5. USE #10'S ENTIRE CIRCUIT IN 3/4 IN. C. UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
- 5. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK WITH MINIMUM 8 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 277 VOLTS. PROVIDE WITH NEMA TYPE ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON-OFF CONTROL.
- 6. PROVIDE A FOUR ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND ONE MULTISCENE (4-SCENE+OFF) WALL BOX STATION AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS AND CONNECTIVITY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM SHALL BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE INTELLIGENT NIGHT NPFD SYSTEM. SYSTEM SHALL CONTROL FIXTURES IN THE PREFUNCTION CO2 CORRIDOR CO2 AREAS WITH SHOWN SWITCH INDICATIONS (a, b, c & d) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
- 7. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND ONE MULTISCENE (4-SCENE+OFF) WALL BOX STATION AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS AND CONNECTIVITY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM SHALL BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE INTELLIGENT NIGHT NPFD SYSTEM. SYSTEM SHALL CONTROL FIXTURES IN THE LG, ACTIVITIES ROOM CO2 AREA WITH SHOWN SWITCH INDICATIONS (a, b, c & d) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.



2 SCHEMATIC WIRING DIAGRAM - SENSOR CONTROL - LIGHTING
 NOT TO SCALE (SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)



1 COMMUNITY BUILDING PLAN - LIGHTING
 SCALE: 1/8"=1'-0"



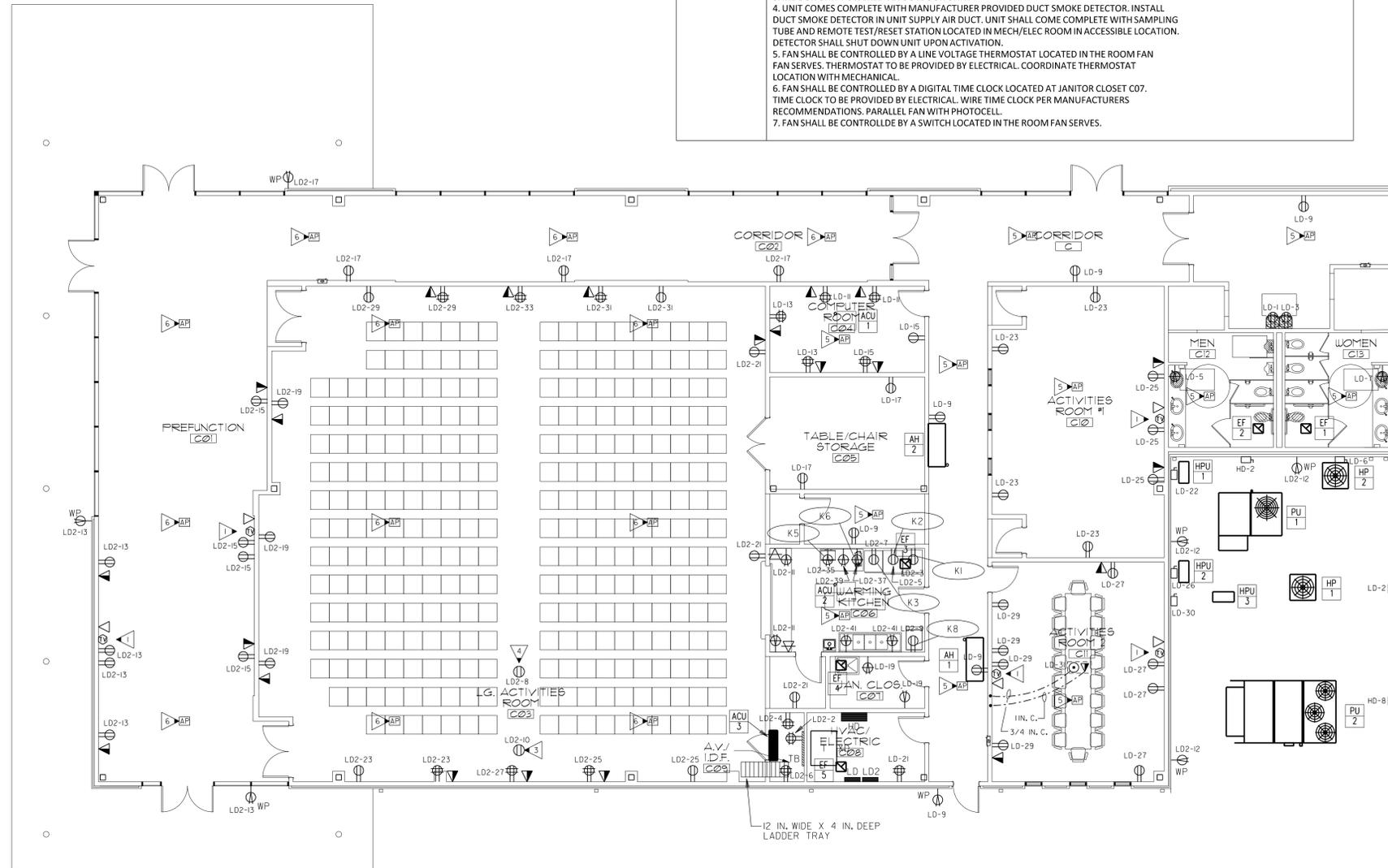
PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

BRAVO BLDG SET 04-21-2025

MECHANICAL EQUIPMENT POWER SCHEDULE						
UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
HP-1	208V/1PH	40A/2P	LD-2	3#8, #10G, 1 IN. C.	60A/2P/3R	1
HP-2	208V/1PH	40A/2P	LD-6	3#8, #10G, 1 IN. C.	60A/2P/3R	1
AH-1	208V/3PH	35A/3P	LD-10	4#8, #10G, 1 IN. C.	60A/3P	1,2
AH-2	208V/3PH	35A/3P	LD-16	4#8, #10G, 1 IN. C.	60A/3P	1,2
HPU/ACU-1	208V/1PH	20A/2P	LD-22	3#12, #12G, 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-2	208V/1PH	20A/2P	LD-26	3#12, #12G, 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-3	208V/1PH	20A/2P	LD-30	3#12, #12G, 3/4 IN. C.	30A/2P/3R	1,3
PU-1	480V/3PH	45A/3P	HD-2	4#8, #10G, 1 IN. C.	60A/3P/3R	1,4
PU-2	480V/3PH	100A/3P	HD-8	4#2, #6G, 1 1/2 IN. C.	100A/3P/3R	1,4
EF-1	120V	20A/1P	LD-34	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-2	120V	20A/1P	LD-36	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-3	120V	20A/1P	LD-37	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH	1,7
EF-4	120V	20A/1P	LD-39	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH	1,7
EF-5	120V	20A/1P	LD-41	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH	1,5
WH-C07	277V	25A/1P	HD-20	2#10, #10G, 3/4 IN. C.	30A/1P	
RC-1	120V	20A/1P	LD-35	2#12, #12G, 1/2 IN. C.	MOTOR RATED SWITCH	

NOTES:

- SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
- PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
- INDOOR UNIT POWERED VIA OUTDOOR UNIT.
- UNIT COMES COMPLETE WITH MANUFACTURER PROVIDED DUCT SMOKE DETECTOR. INSTALL DUCT SMOKE DETECTOR IN UNIT SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
- FAN SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT LOCATED IN THE ROOM FAN FAN SERVES. THERMOSTAT TO BE PROVIDED BY ELECTRICAL. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL.
- FAN SHALL BE CONTROLLED BY A DIGITAL TIME CLOCK LOCATED AT JANITOR CLOSET C07. TIME CLOCK TO BE PROVIDED BY ELECTRICAL. WIRE TIME CLOCK PER MANUFACTURERS RECOMMENDATIONS. PARALLEL FAN WITH PHOTOCELL.
- FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN THE ROOM FAN SERVES.



1 COMMUNITY BUILDING PLAN - POWER & TEL/DATA/TV SYSTEMS
E-3.1 SCALE: 1/8"=1'-0"

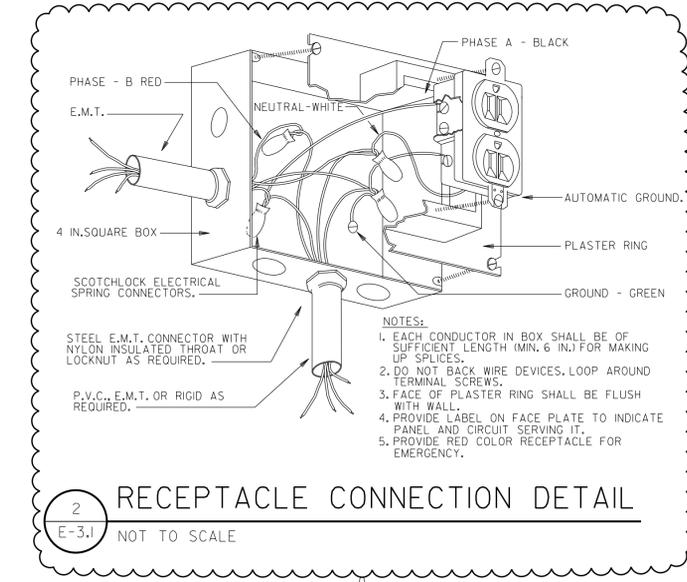
PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

GENERAL NOTES:

- COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.
- ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
- COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.
- FIRE SEAL ALL FIREWALL PENETRATIONS.

KEYED NOTES: (THIS SHEET ONLY)

- PROVIDE RECEPTACLE, DATA OUTLET, AND TV OUTLET MOUNTED HIGH ON WALL FOR TV. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO MOTORIZED SCREEN. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.



KITCHEN EQUIPMENT POWER SCHEDULE

ITEM NO.	QUANTITY	DEVICE	VOLTAGE/ PHASE	AMPS	CIRCUIT BREAKER	CIRCUIT NUMBER	FEEDER	DISCONNECT	NEMA CONNECTION	NOTES
K1	1	REFRIGERATOR	120V	3.8A	20A/1P	LD2-3	2#12, #12G, 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K2	1	FREEZER	120V	6.5A	20A/1P	LD2-5	2#12, #12G, 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K3	1	WARMING CABINET	120V	15A	20A/1P	LD2-7	2#12, #12G, 1/2 IN. C.	CORD AND PLUG	5-20P	1,2,3,4
K5	1	MICROWAVE	120V	13.4A	20A/1P	LD2-35	2#12, #12G, 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3
K6	1	COFFEE BREWER	120V	13.8A	20A/1P	LD2-37	2#12, #12G, 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3
K8	1	ICE MAKER	120V	9.1A	20A/1P	LD2-9	2#12, #12G, 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4

NOTES:
1. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
2. VERIFY NEMA CONFIGURATION PRIOR TO ROUGH-IN.
3. COORDINATE EXACT ROUGH-IN HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
4. PROVIDE GFCI BREAKER FOR EQUIPMENT.



ELECTRICAL DESIGN CONSULTANTS, INC.
175 NEW ST., 5TH FL.
MACON, GA 31201
EDC-124004

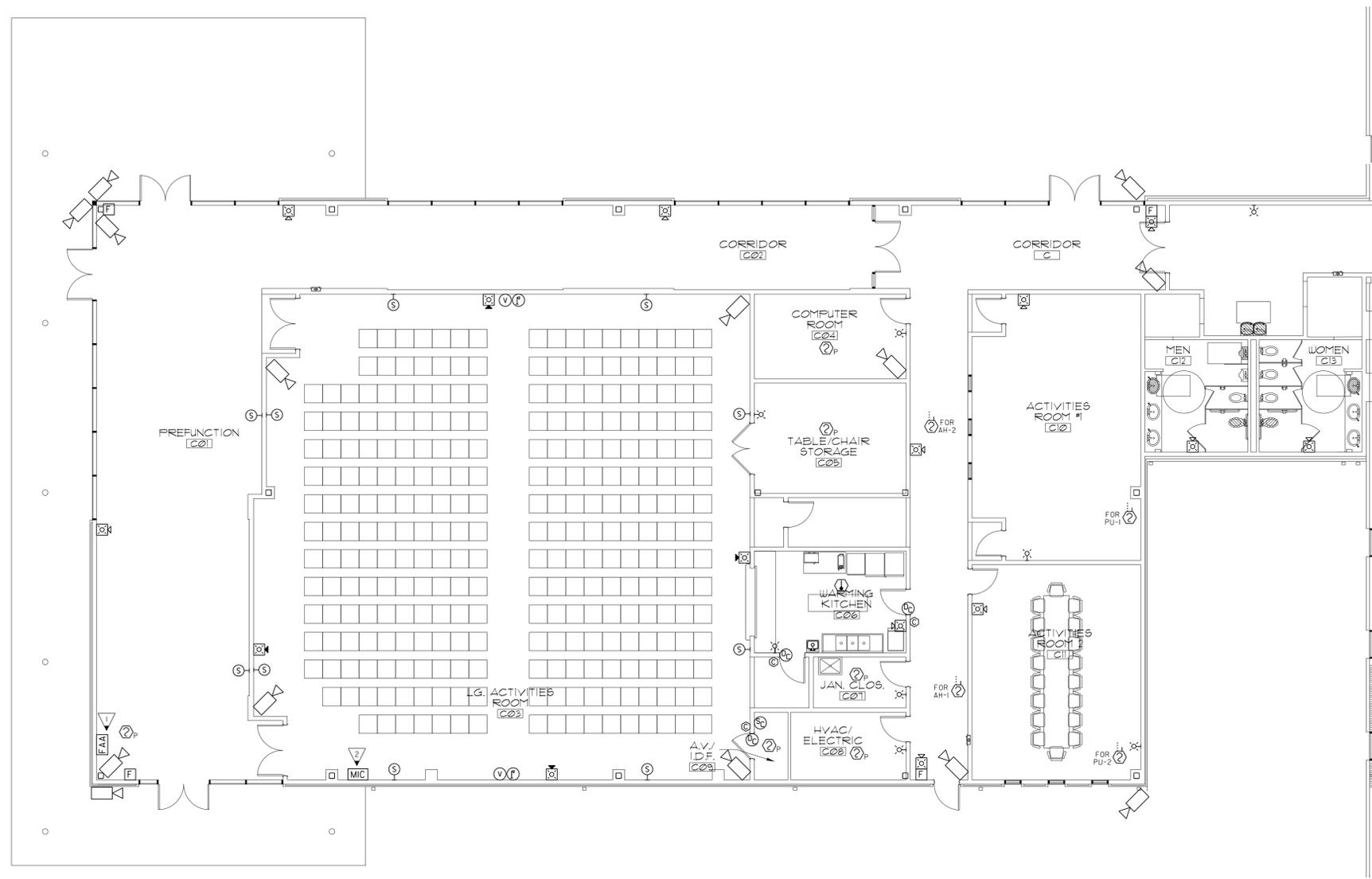
Client: **SUNBELT** BUILDERS
10641 HWY. 36, CONNINGTON, GA 30014, TEL: 770.786.3031

Project: **R. L. COUSINS CENTER**
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
CONNINGTON, GEORGIA.

Issue Date: 06-27-24
Revision Description: FOR CONSTRUCTION
07-03-24 TAW VE REVISION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet No.: **E-3.1**

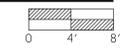


KEYED NOTES: (THIS SHEET ONLY)

- ▶ FIRE ALARM ANNUNCIATOR MUST BE FLUSH MOUNTED.
- ▶ COORDINATE EXACT LOCATION OF REMOTE VOICE EVACUATION MICROPHONE WITH OWNER AND LOCAL JURISDICTION PRIOR TO ROUGH-IN.

- FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:
- IN ACCORDANCE WITH CHAP. 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:
1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
 2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
 3. A FIRE ALARM RISER DIAGRAM.
 4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.
 5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.
 6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.
 7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.
 8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.
 9. BATTERY CALCULATIONS.
 10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.
 11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR BOTH HORN ALARM AND VOICE EVACUATION SYSTEM COMPONENTS (IF APPLICABLE).
 12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).

1 COMMUNITY BUILDING PLAN - FIRE ALARM, SOUND, & SECURITY
 E-4.1 SCALE: 1/8"=1'-0"



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

BRAVO BLDG SET 04-21-2025

PHASE 2



ELECTRICAL DESIGN CONSULTANTS, INC.
 175 NEW ST., STE. 1
 MACON, GA 31201
 EDC-1124004

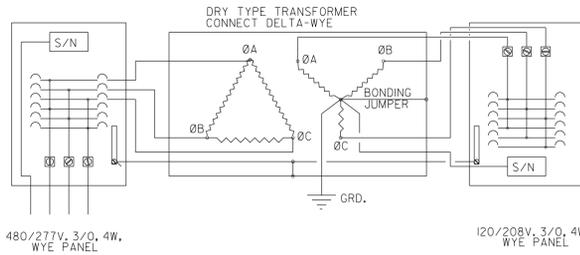
SUNBELT
 BUILDERS
 10641 HWY. 36, CONNINGTON, GA 30014, TEL: 770 786-3031

Client:
R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA.

Issue	Date	Initiated By	Revision Description
06-27-24	TAW	FOR CONSTRUCTION	

Project No.: 2023012
 Drwg. Date: 06/27/24
 Drwg. Revision:
 Drawn By: TAW
 Checked By: JHM
 File Name:
 Sheet Title:
COMMUNITY BUILDING PLAN - FIRE ALARM, SOUND & SECURITY
 Sheet No.:
E-4.1

© BETA DESIGN GROUP, P.C., 2014. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Beta Design Group P.C. is prohibited.

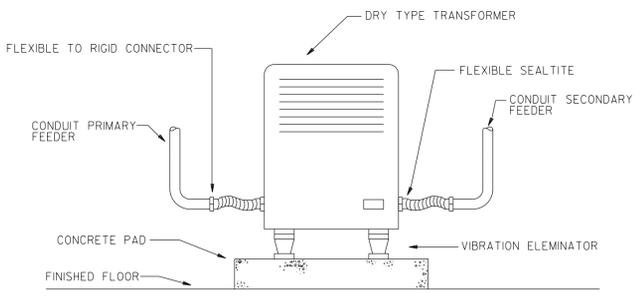


2 DRY TYPE TRANSFORMER CONNECTION
E-5.J NOT TO SCALE

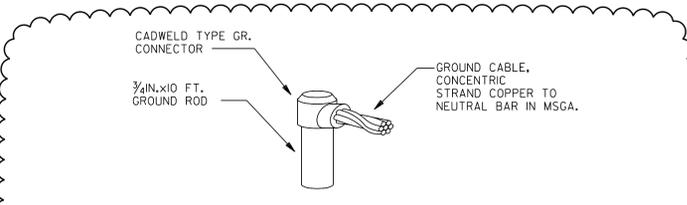
WIRE COLOR CODE			
A/C	120/208	277/480	
PHASE A	BLACK	BROWN	
PHASE B	RED	ORANGE	
PHASE C	BLUE	YELLOW	
NEUTRAL	WHITE	GRAY	
GROUND	GREEN	GREEN	

VOLTAGE PHASE 3 WIRE 4 BUS AMPS	277			480			PANEL MAIN AMPS	HD 400	LOCATION MOUNTING MAIN	HVAC / ELEC C08 SURFACE LUGS	DESCRIPTION	
	A	B	C	A	B	C						
LIGHTS	1600			1	1	1	1	45		8878	8878	PU-1
CORR. CLOUD LIGHTS		1644		2	1	3	3	45		8878	8878	PU-1
CORR. CYLINDERS			550	2	1	5	5	45		8878	8878	PU-1
ACTIVITY CLOUD LITS.	2400			1	7	7	7	100		20338	20338	PU-2
ACTIVITY CYLINDERS		650		1	9	9	9	10		20338	20338	PU-2
WALL PACKS			360	2	1	11	11	12		20338	20338	PU-2
EXTERIOR DOWNLTS.	450			1	13	13	13	175		24908	24908	XFRMR XD
EXTERIOR RAMP LITS.		120		1	15	15	15	16		22754	22754	
EXTERIOR STAIR LITS.			120	1	17	17	17	18		19952	19952	
EXTERIOR STEP LITS.	500			2	1	19	19	20	25		4500	WH-C07
EXTERIOR STEP LITS.	500			2	1	21	21	22	20			SPARE
SPARE				2	1	23	23	24	20			SPARE
SPARE				2	1	25	25	26	1			SPARE
SPARE				2	1	27	27	28	1			SPACE
SPARE				2	1	29	29	30	1			SPACE
SPACE				1	31	31	32	1				SPACE
SPACE				1	33	33	34	1				SPACE
SPACE				1	35	35	36	1				SPACE
TVSS				6	3	37	37	38	3			SPACE
						39	39	40				SPACE
						41	41	42				SPACE
TOTALS	4950	2914	1030							49168	51970	58624
VOLT AMPS	BUS A	63574										
	BUS B	54684										
	BUS C	50198										
	TOTAL	168556										

VOLTAGE PHASE 3 WIRE 4 BUS AMPS	120			208			PANEL MAIN AMPS	LD 400	LOCATION MOUNTING MAIN	HVAC / ELEC C08 SURFACE LUGS	DESCRIPTION	
	A	B	C	A	B	C						
*EWC	1000			2	1	1	1	40		2112	2112	HP-1
*EWC	1000	1000		2	1	3	3	40		2112	2112	HP-1
MEN RECEPT.			200	2	1	5	5	40		2112	2112	HP-2
WOMEN RECEPT.	200			2	1	7	7	40		2112	2112	HP-2
CORRIDOR RECEPT.		1200		2	1	9	9	35		3072	3072	AM-1
COMPUTER RM REC.			800	2	1	11	11	12		3072	3072	AM-1
COMPUTER RM REC.	800			2	1	13	13	14		3072	3072	AM-1
COMPUTER RM REC.		600		2	1	15	15	16	35	3072	3072	AM-2
STORAGE RECEPT.			400	2	1	17	17	18		3072	3072	AM-2
JANITOR RECEPT.	400			2	1	19	19	20		3072	3072	AM-2
ELEC. RECEPT.		400		2	1	21	21	22	20	1082	1082	HPU / ACU-1
ACTIVITY RECEPT.			800	2	1	23	23	24		1082	1082	HPU / ACU-2
ACTIVITY RECEPT.	600			2	1	25	25	26	20	1082	1082	HPU / ACU-2
ACTIVITY RECEPT.		800		2	1	27	27	28		1082	1082	HPU / ACU-3
ACTIVITY RECEPT.			800	2	1	29	29	30	20	1082	1082	HPU / ACU-3
ACTIVITY FLR BOX	400			2	1	31	31	32		1082	1082	HPU / ACU-3
PREFUNCTION TRACK		1000		2	1	33	33	34	1	172	172	EF-1
RC-1			44	2	1	35	35	36	1	172	172	EF-2
EF-3	20			2	1	37	37	38	60			TVSS
EF-4		20		2	1	39	39	40				TVSS
EF-5			128	2	1	41	41	42				TVSS
TOTALS	3420	5020	3172							10592	10592	12532
VOLT AMPS	BUS A	15952										
	BUS B	15612										
	BUS C	13764										
	TOTAL	45328										



3 FLOOR MOUNTED TRANSFORMER
E-5.J NOT TO SCALE



6 CABLE CONNECTION TO GROUND ROD
E-6.J NOT TO SCALE

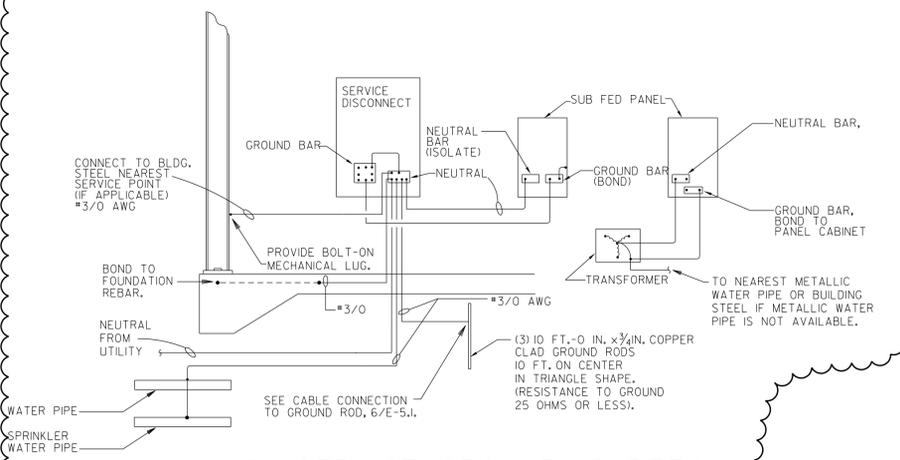
PANEL HD DEMAND CALCULATIONS			
DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	168,656		
LIGHTING	9,884	1.25	12,368
HVAC	121,020	1.00	121,020
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	172	1.25	215
MOTOR LOAD	340	1.00	340
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	7,800	0.50	3,900
WATER HEATER	4,544	1.00	4,544
MISC LOADS	14,886	1.00	14,886
DEMAND LOAD - VOLT-AMPERES			167,273
DEMAND LOAD - 480V 3-PHASE AMPS			201.3

PANEL IS SIZED/RATED FOR 400 AMPS.

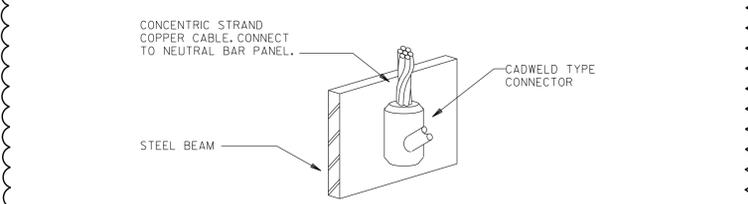
PANEL LD/LD2 DEMAND CALCULATIONS			
DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	67,614		
LIGHTING	1,000	1.25	1,250
HVAC	33,372	1.00	33,372
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	172	1.25	215
MOTOR LOAD	340	1.00	340
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	7,800	0.50	3,900
WATER HEATER	44	1.00	44
MISC LOADS	14,886	1.00	14,886
DEMAND LOAD - VOLT-AMPERES			64,007
DEMAND LOAD - 208V 3-PHASE AMPS			177.8

PANEL IS SIZED/RATED FOR 400 AMPS.

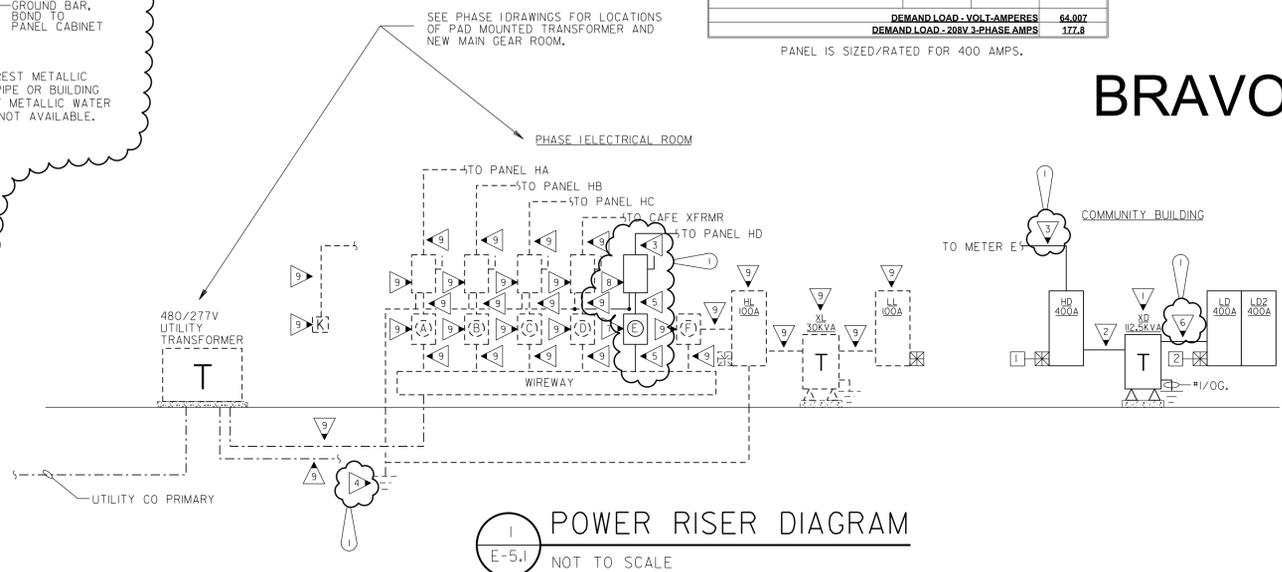
VOLTAGE PHASE 3 WIRE 4 BUS AMPS	120			208			PANEL MAIN AMPS	LD2 400	LOCATION MOUNTING MAIN	HVAC / ELEC C08 SURFACE LUGS	DESCRIPTION	
	A	B	C	A	B	C						
LIGHT CONTROL	500			2	1	1	1	20		500	TB	
* REFRIGERATOR		456		2	1	3	3	20		400	AV RECEPT.	
* FREEZER			780	2	1	5	5	20		400	AV RECEPT.	
* WARMING CABINET	1800			2	1	7	7	20		1500	PROJECTOR	
* ICE MAKER		1086		2	1	9	9	20		1500	SCREEN	
WARMING COUNTER			400	2	1	11	11	20		600	EXTERIOR RECEPT.	
PREFUNCTION RECEPT.	1200			2	1	13	13	20			SPARE	
PREFUNCTION RECEPT.	800			2	1	15	15	20			SPARE	
CORRIDOR RECEPT.		800		2	1	17	17	20			SPARE	
ACTIVITIES RECEPT.	600			2	1	19	19	20			SPARE	
ACTIVITIES RECEPT.		600		2	1	21	21	20			SPARE	
ACTIVITIES RECEPT.			600	2	1	23	23	20			SPARE	
ACTIVITIES RECEPT.	600			2	1	25	25	20			SPARE	
ACTIVITIES RECEPT.		400		2	1	27	27	20			SPACE	
ACTIVITIES RECEPT.			600	2	1	29	29	20			SPACE	
ACTIVITIES RECEPT.	600			2	1	31	31	20			SPACE	
ACTIVITIES RECEPT.			400	2	1	33	33	20			SPACE	
MICROWAVE		1808		2	1	35	35	20			SPACE	
COFFEE BREWER	1856			2	1	37	37	20			SPACE	
WARMING APPLIANCE		1500		2	1	39	39	20			SPACE	
WARMING RECEPT.			400	2	1	41	41	20			SPACE	
TOTALS	6956	5242	5188							1000	1900	2000
VOLT AMPS	BUS A	8956										
	BUS B	7142										
	BUS C	6188										
	TOTAL	22286										



4 SERVICE GROUNDING DETAIL
E-5.J NOT TO SCALE



5 CABLE CONNECTION TO STEEL BEAM
E-6.J NOT TO SCALE



1 POWER RISER DIAGRAM
E-5.J NOT TO SCALE

T.V.S.S.

1 MAIN SERVICE PANELS, PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 200,000 SURGE CURRENT RATING, SERVICE ENTRANCE RATED, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.

2 DISTRIBUTION PANELS, PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 100,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.

BRAVO BLDG SET 04-21-2025

KEYED NOTES: (THIS SHEET ONLY)

- SEE DRY TYPE TRANSFORMER DETAILS, 2/E-5.J & 3/E-5.J.
- 3" x 2" x 0.063", 2 IN. C.
- 2 SETS OF 4 IN. C. PROVIDED IN PHASE I. PROVIDE 4" x 600MCM, 1/0G. IN (I) 4 IN. C. OTHER 4 IN. C. TO REMAIN AS SPARE.
- EXISTING GROUNDING CONDUCTOR. BOND NEW E.C.B. TO EXISTING GROUNDING SYSTEM. SEE SERVICE GROUNDING DETAIL, 4/E-5.J.
- 2 SETS: 4" x 250MCM ALUM., IN EXISTING 4 IN. C. (2) 4 IN. C. PROVIDED IN PHASE I.
- 4" x 600MCM, 1/0G., 4 IN. C.
- PROVISION FOR COMMUNITY BUILDING METER PROVIDED IN PHASE I. PROVIDE 277/480V, 400A METER BASE FOR COMMUNITY BUILDING SERVICE.
- PROVIDE LABEL "COMMUNITY CENTER DISCONNECT". PROVIDE 400A/3P S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE, 32.5 KAIC MINIMUM. CONNECT SHUNT TRIP TO EXISTING NEMA 3R KNOX REMOTE POWER BOX TO ALLOW FOR REMOTE DISCONNECTION OF POWER.
- ELECTRICAL EQUIPMENT PROVIDED IN PHASE I OF CONSTRUCTION. FIELD VERIFY EXACT LAYOUT OF ELECTRICAL EQUIPMENT.





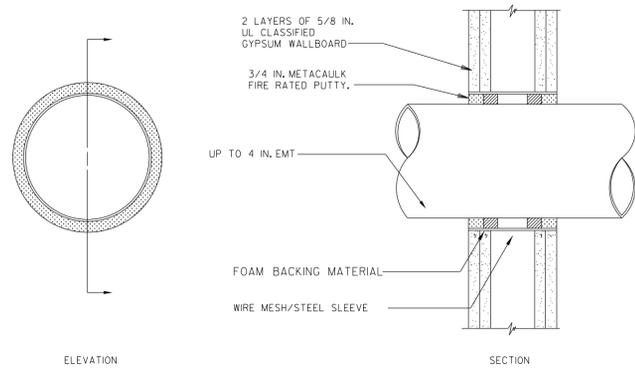


Client: R. L. COUSINS CENTER
 Project: NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W.
 COVINGTON, GEORGIA.

Issue Date: 06-27-24
 Drawn By: TAW
 Checked By: JHM
 File Name:

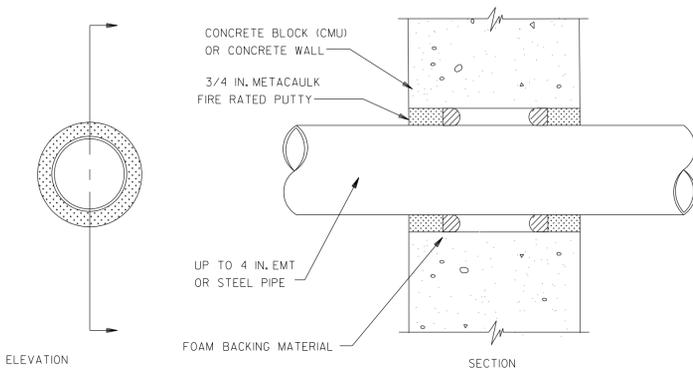
Project No.: 2023012
 Drwg. Date: 06/27/24
 Drwg. Revision:
 Sheet Title: POWER RISER DIAGRAM, DETAILS, AND SCHEDULES
 Sheet No.: E-5.1

PHASE 2



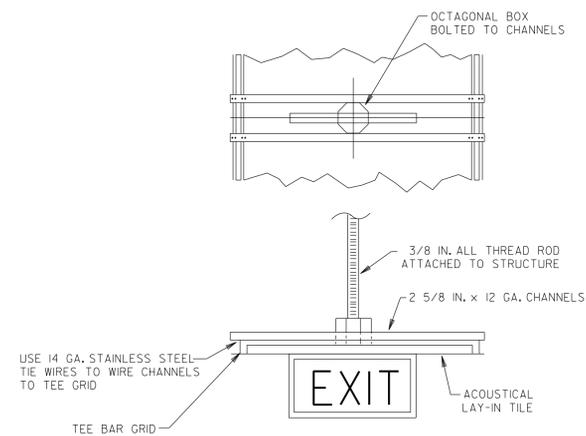
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

1 DETAIL - GYPSUM WALLBOARD PENETRATION
E-6.1 NOT TO SCALE

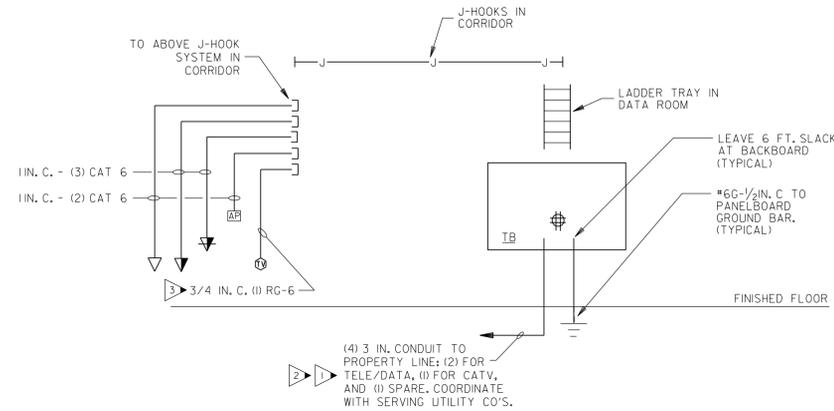


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

2 DETAIL - CONCRETE WALL PENETRATION
E-6.1 NOT TO SCALE

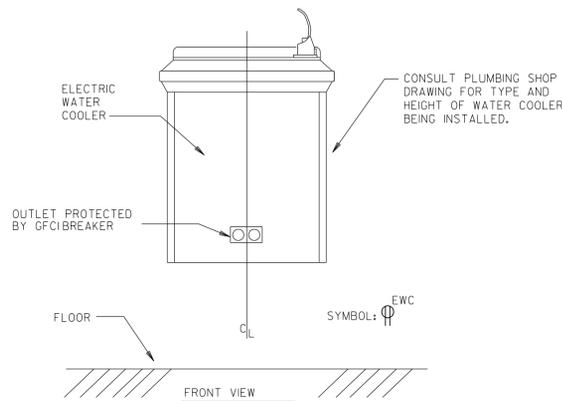


3 TYPICAL EXIT LIGHT MOUNTING DETAIL
E-6.1 NOT TO SCALE

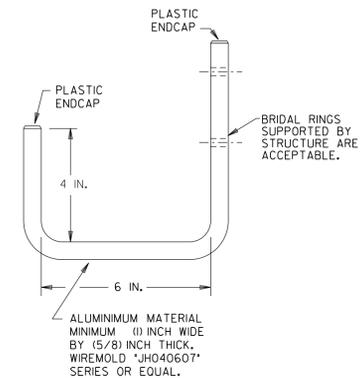


(4) 3 IN. CONDUIT TO PROPERTY LINE; (2) FOR TELE/DATA, (1) FOR CATV, AND (1) SPARE, COORDINATE WITH SERVING UTILITY CO'S.

4 TELEPHONE/DATA/CATV RISER
E-6.1 NOT TO SCALE



5 TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER
E-6.1 NOT TO SCALE



6 J-HOOK DETAIL
E-6.1 NOT TO SCALE

KEYED NOTES: (DETAIL 4/E-6.1 ONLY)

- ▶ PROVIDE (2) - 3 IN. CONDUITS FOR DATA/TEL, (1) CONDUIT FOR 50 PAIR EXTERIOR RATED, GEL FILLED COPPER CAT 6, (1) CONDUIT FOR 12 STRAND HYBRID FIBER. COORDINATE WITH OWNER FOR EXACT FIBER SPECIFICATIONS AND TERMINATIONS. COORDINATE EXACT DATA/TEL STUB OUT LOCATIONS AT STREET WITH SERVING UTILITY COMPANIES.
- ▶ PROVIDE (1) - 3 IN. CONDUIT WITH PULL STRING FOR CATV SYSTEM, COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.
- ▶ LEAVE 6 FT. OF CABLE COIL AT BACKBOARD AND 1 IN. CABLE COIL IN OUTLET BOXES.

WIRE MANAGEMENT NOTES

- NOTES:
- A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS FOR LOW VOLTAGE CABLING.
 - B. ALL J-HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.
 - C. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.
 - D. WHERE J-HOOKS ARE (2) ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.
 - E. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.
 - F. FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.
 - G. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.
 - H. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD, SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.
 - I. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.
 - J. J-HOOKS SHALL SUPPORT CABLING FOR: FIRE ALARM, DATA, TELEPHONE, CABLETV, SOUND, AND SECURITY.
 - K. ONE ROW SHALL SUPPORT SOUND CABLING, ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING, ONE ROW SHALL SUPPORT CABLETV CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM, ONE ROW SHALL SUPPORT SECURITY CABLING.
 - L. SEE DETAIL - CONCRETE WALL PENETRATION, 2/E-6.1.
 - M. SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 1/E-6.1.
 - N. WHERE J-HOOKS ARE REQUIRED ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PER 3/8 IN THREADED ROD).
 - O. PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.

GENERAL NOTES:(DATA CABLING)

- 1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING, PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
- 2. ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.

D	M	XXX
JACK NUMBER		
MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED,		
D OR V INDICATING VOICE OR DATA OUTLET.		

 ALL PATCH PANELS AND I/O BLOCKS SHALL BE CORRESPONDINGLY LABELED.
- 3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
- 4. REFER TO/GIN PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
- 5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G, 3/4 IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION PROVIDE A 3/4 IN. x 4 FT. x 8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.

- 6. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
- 7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
- 8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
- 9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
- 10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA CABLE TRAY SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING, BUNDLE CABLES, SLEEVE THROUGH CORRIDOR WALL USING 4 IN. C.
- 11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
- 12. REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
- 13. SEE WIRE MANAGEMENT NOTES.

7 LADDER CABLE TRAY
E-6.1 NOT TO SCALE
NOTE: LADDER TRAY ONLY IN DATA AND LOW VOLTAGE ROOMS. SEE DRAWINGS FOR LADDER TRAY SIZE.

BRAVO BLDG SET 04-21-2025



ELECTRICAL DESIGN CONSULTANTS, INC.
175 NEW ST., 5TH FLOOR
MACON, GA 31201
E-6.1-12/24/04

Client: **SUNBELT** BUILDERS
10641 HWY 36, CONNINGTON, GA 30014, TEL: 770 786-3031

Project: **R. L. COUSINS CENTER**
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
CONNINGTON, GEORGIA.

Issue	Date	Drawn	Revision	Description
06-27-24	TAW	FOR CONSTRUCTION		

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
ELECTRICAL DETAILS

Sheet No.:
E-6.1

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: R. L. Cousins Center Phase 2
 Project Type: New Construction

Construction Site: 8134 Geiger Street N.W., Covington, GA 30014
 Owner/Agent:
 Designer/Contractor: Electrical Design Consultants, 175 New Street Suite 1, Macon, GA 31201

Credits: 1.0 Required 1.0 Proposed
 Enhanced Interior Lighting Controls, 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-Community Center (Town Hall)	9470	0.89	8428
Total Allowed Watts =			8428

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-Community Center (Town Hall)				
A: A 2 FT. X 4 FT. TROFFER, LED Panel 33W.	1	29	34	986
B: B 4 FT. LED STRIP, LED Other Fixture Unit 36W.	1	6	36	216
C: C 6 IN. CYLINDER DOWNLIGHT, LED Other Fixture Unit 16W.	1	72	18	1296
D: D 6 IN. DOWNLIGHT, LED Other Fixture Unit 16W.	1	100	19	1900
E: E TRACK #1: Wattage based on current limiting device capacity	0	0	120	120
F: F TRACK #2: Wattage based on current limiting device capacity	0	0	120	120
G: G 4 FT. LED STRIP, LED Other Fixture Unit 36W.	1	6	36	216
Total Proposed Watts =			5709	

Interior Lighting PASSES: Design 32% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE
 Name - Title:  Date: 04/18/24

Project Title: R. L. Cousins Center Phase 2 Report date: 04/18/24
 Data filename: Z:\2024 CAD\M24004 RL Cousins Center\WORKING DRAWINGS\ELEC\PHASE 2\RL Cousins Phase COMcheck.cck

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: R. L. Cousins Center Phase 2
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Residentially zoned area (LZ2))

Construction Site: 8134 Geiger Street N.W., Covington, GA 30014
 Owner/Agent:
 Designer/Contractor: Electrical Design Consultants, 175 New Street Suite 1, Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Building Exterior (Walkway < 10 feet wide)	250 ft of	0.7	Yes	175
Overhang (Entry canopy)	1940 ft2	0.25	Yes	485
Stairs (Stairway)	630 ft2	1	Yes	630
Total Tradable Watts (a) =				1290
Total Allowed Watts =				1290
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)
Building Exterior (Walkway < 10 feet wide 250 ft of walkway length): Tradable Wattage				
OA: OA: ARCHITECTURAL WALL PACK, LED Other Fixture Unit 36W.	1	7	36	252
Overhang (Entry canopy 1940 ft2): Tradable Wattage				
OB: OB: 6 IN. DOWNLIGHT, LED Other Fixture Unit 25W.	1	19	23	437
Stairs (Stairway 630 ft2): Tradable Wattage				
OC: OC: LED STEP LIGHT, LED Other Fixture Unit 6.5W.	1	15	8	128
OD: OD: 1 FT. LED FLEXIBLE FIXTURE, Other.	1	180	1	252
Total Tradable Proposed Watts =				1068

Exterior Lighting PASSES: Design 43% 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 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE
 Name - Title:  Date: 04/18/24



Client: R. L. Cousins Center
 Project: NEWTON CO. BOC RFP #24-04
 8134 GEIGER STREET, N.W., COVINGTON, GEORGIA.

Issue Date	Initials	Revision Description
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
 Drwg. Date: 06/27/24
 Drwg. Revision:
 Drawn By: TAW
 Checked By: JHM
 File Name:

Sheet Title:
LIGHTING COMCHECK REPORTS

Sheet No.:
E-6.2

© BETA DESIGN GROUP, P.C., 2014. This drawing may be utilized only for the purpose of constructing or installing the work shown hereon at the site of the work specified. Any other use of this drawing, including without limitation, any reproduction, or alteration of this drawing, without the prior written approval of Beta Design Group P.C., is prohibited.