



gjrchitect

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ARCHITECT INFORMATION: Gabriel J. Richard AIA NCARB Registration: RA012322

ARCHITECT'S SEAL:



AUTO BODY SHOP RENOVATION - BLDG 100 802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION DATE: 09/08/2023

REVISION SCHEDULE:

Table with 3 columns: No., Description, Date

1 REVIEW COMMENTS 1 11/10/2023

Table with 3 columns: No., Description, Date

COVER SHEET

SHEET NAME:

G101

SHEET NUMBER

DRAWING SHEET INDEX:

Table listing drawing sheets: GENERAL (G101 COVER SHEET, G102 SURVEY, LS101 LIFE SAFETY PLAN), STRUCTURAL (N1.1 STRUCTURAL NOTES, N1.2 STRUCTURAL NOTES, N.1 FOUNDATION PLAN, S.2 FIRST FLOOR CEILING/HEADER FRAMING PLAN, S.3 SECOND FLOOR CEILING/HEADER FRAMING PLAN, S.4 ROOF FRAMING PLAN, S.5 LOAD WALL DETAILS), ARCHITECTURAL (A100 ARCHITECTURAL SITE PLANS, A101 EXISTING - FLOOR PLANS, A102 DEMOLITION - FLOOR PLANS, A103 NEW - FLOOR PLANS, A111 NEW REFLECTED CEILING PLANS, A201 BUILDING ELEVATIONS, A301 SECTIONS AND STAIR DETAILS, A401 DOOR, WINDOW AND RESTROOM INFORMATION), ELECTRICAL (E000 NOTES AND LEGEND, E001 RISER DIAGRAM, E002 PANEL SCHEDULES, E201 POWER PLAN, E301 FIRST FLOOR LIGHTING PLAN, E401 FIRST FLOOR SYSTEMS PLAN, E402 SECOND FLOOR SYSTEMS PLAN, E500 SPECIFICATIONS), MECHANICAL (M001 LEGEND, NOTES, DETAILS & SCHEDULES, M002 SPECIFICATIONS, M101 MECHANICAL FLOOR PLANS), PLUMBING (P001 LEGENDS, NOTES, DETAILS, & SCHEDULES, P101 PLUMBING FLOOR PLANS - SAN & VENT, P201 PLUMBING PLANS - DOM WATER, P301 SWV RISER DIAGRAM, P302 DOM WATER RISER DIAGRAM, P303 NATURAL GAS RISER DIAGRAM)

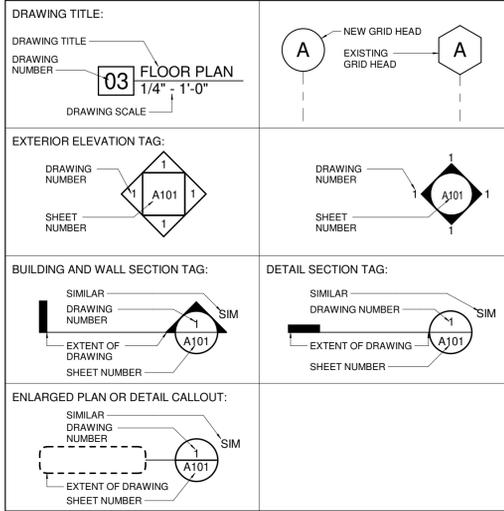
PROJECT INFORMATION:

01. PROJECT INFORMATION: THE PROJECT IS A RENOVATION / RENEWAL OF AN EXISTING AUTOBODY REPAIR SHOP WITH A SMALL EXPANSION TO THE OFFICE AREA IN THE FORM OF A POP-UP ADDING A SECOND STORY EXPANDING THE OCCUPABLE SPACE BY 750 SF GROSS (4.3% INCREASE OF HABITABLE SPACE). EXISTING AWNING STRUCTURES AND STORAGE STRUCTURES ARE BEING DEMOLISHED AND A NEW ACCESSORY STRUCTURE (METAL BUILDING) 30'X60' 1,800 GSF IS BEING ADDED AS A CARWASH DETAILING SHOP. THE ZONING OF THE PROPERTY IS LC LIMITED COMMERCIAL. MAXIMUM LOT COVERAGE BY BUILDINGS AND OTHER STRUCTURES INCLUDING PAVING 80%. 02. APPLICABLE CODES: INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020); INTERNATIONAL FIRE CODE, 2018 EDITION (CONTACT STATE FIRE MARSHAL BELOW); INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020); INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020); INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020); NATIONAL ELECTRICAL CODE, 2020 EDITION (NO GEORGIA AMENDMENTS); INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020); NFPA 101 LIFE SAFETY CODE 2018 EDITION WITH STATE AMENDMENTS (2020). 03. OCCUPANCY CLASSIFICATION: BUSINESS GROUP B (IBC 304.1) NEW BUSINESS OCCUPANCIES (NFPA 101 CH. 38) EXISTING BUSINESS OCCUPANCIES (NFPA 101 CH. 39). 04. CONSTRUCTION TYPE: TYPE VB (IBC). 05. FIRE PROTECTION SYSTEMS: THIS BUILDING IS NOT SPRINKLERED. 06. FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: BUILDING ELEMENT IBC TABLE 601. STRUCTURAL FRAME 0 HOUR, EXTERIOR BEARING BEAMS AND COLUMNS 0 HOUR, FLOOR CONSTRUCTION 0 HOUR, ROOF (INC. SUPPORTS) 0 HOUR, NON-BEARING WALLS EXT VARIES (TABLE 602), NONBEARING WALLS INT 0 HOUR. 07. BUILDING AREA: AUTOBODY REPAIR SHOP: (1ST FLOOR - 17,460 GSF + 2ND FLOOR - 750 GSF) 18,210 GSF. DETAIL SHOP: 1,800 GSF. 08. NUMBER OF STORIES: 2-STORY - EXISTING BUILDING, 1-STORY - NEW BUILDING. 09. BUILDING OCCUPANT LOAD (IBC TABLE 1004.5): EXISTING BUILDING: 122 OCCUPANTS (40 ACTUAL USE), NEW BUILDING: 12 OCCUPANTS (4 ACTUAL USE). 10. MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (IBC TABLE 2902.1): WATER CLOSETS 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER, EXCEEDING REQUIRED - 2, PROVIDED - 6, LAVATORIES 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER, EXCEEDING 80 REQUIRED - 2, PROVIDED - 5, NOT REQUIRED, BATHTUBS/SHOWERS 1 PER 100, DRINKING FOUNTAINS 1 PER 100, OTHER REQUIRED - 1 - (EXEMPT: NON-CONFORMING CONTINUOUS USE), 1 SERVICE SINK - (EXEMPT: NON-CONFORMING CONTINUOUS USE). 11. PORTABLE FIRE EXTINGUISHER REQUIREMENTS (IBC, 906.1): SIZE AND DISTRIBUTION OF PORTABLE FIRE EXTINGUISHERS (IBC, TABLE 906.3(1)): MINIMUM-RATED SINGLE EXTINGUISHER 2-A, MAXIMUM FLOOR AREA PER UNIT OF A 1,500 SF (PER RATING 3,000 SF), MAXIMUM FLOOR AREA FOR EXTINGUISHER 11,250 SF, MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER 75 FT, EXISTING BUILDING 7 REQUIRED, NEW BUILDING 1 REQUIRED.

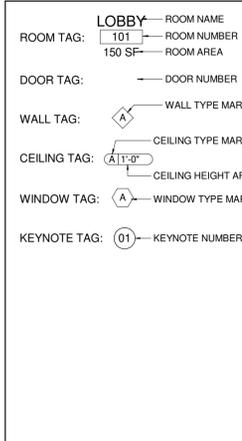
ABBREVIATIONS:

= Pound OR Number, @ = And, ACT = Acoustic Ceiling Tile, AD = Area Drain, AFF = Above Finished Floor, ALUM = Aluminum, ANOD = Anodized, BSMT = Basement, BYND = Beyond, CIP = Cast In Place, CHNL = Channel, CJ = Control Joint, CLG = Ceiling, CLR = Clear, CMU = Concrete Masonry Unit, COL = Column, COMP = Compressible, CONC = Concrete, CONT = Continuous, CPT = Carpet, CT = Ceramic Tile, CTYD = Courtyard, DBL = Double, DEMO = Demolish or Demolition, DIA = Diameter, DIM = Dimension, DIMS = Dimensions, DN = Down, DRWG = Drawing, EA = Each, Ed = Expansion Joint, EL = Elevation, ELEC = Electrical, ELEV = Elevator or Elevation, EPDM = Ethylene Propylene Diene, EQ = Equal, EXIST = Existing, FD = Floor Drain or Fire Department, FEC = Fire Extinguisher Cabinet, FIXT = Fixture, FL = Floor, FO = Face Of, FND = Foundation, FRT = Fire Retardant Treated, GA = Gauge, GALV = Galvanized, GWB = Gypsum Wall Board, HC = Hollow Core, HI = High, CLR = Clear, HM = Hollow Metal, HP = High Point, HR = Hour, HVAC = Heating, Ventilating, And Air Conditioning, INSUL = Insulated or Insulation, INT = Interior, IRGB = Impact Resistant Gypsum Wall Board, LO = Low, MAX = Maximum, MO = Masonry Opening, MECH = Mechanical, MEM = Membrane, MIN = Minimum, MRG = Moisture-Resistant Gypsum Wall Board, MTL = Metal, NIC = Not In Contract, NO = Number, NOM = Nominal, OC = On Center, OH = Overhang or Opposite Hand, OPP = Opposite, OZ = Ounce, PCC = Pre-Cast Concrete, PLUMB = Plumbing, PLYWD = Plywood, PT = Pressure Treated, PNT = Paint or Painted, PVC = Polyvinyl Chloride, RBR = Rubber, RCP = Reflected Ceiling Plan, RD = Roof Drain, REQ = Require, Required, Requirement, RM = Room, SIM = Similar, SPEC = Specified OR Specification, SPK = Sprinkler or Speaker, STL = Stainless Steel, STG = Sound Transmission Coefficient, STL = Steel, STD = Stud Wall Framing, STRUCT = Structure or Structural, T&G = Tongue And Groove, TEL = Telephone, TLT = Toilet, TME = To Match Existing, TO = Top Of, TOC = Top Of Concrete, TOS = Top Of Steel, TPD = Toilet Paper Dispenser, TYP = Typical, UNO = Unless Noted Otherwise, U/S = Underside, VFI = Verify In Field, VP = Vision Panel, W = With, WD = Wood.

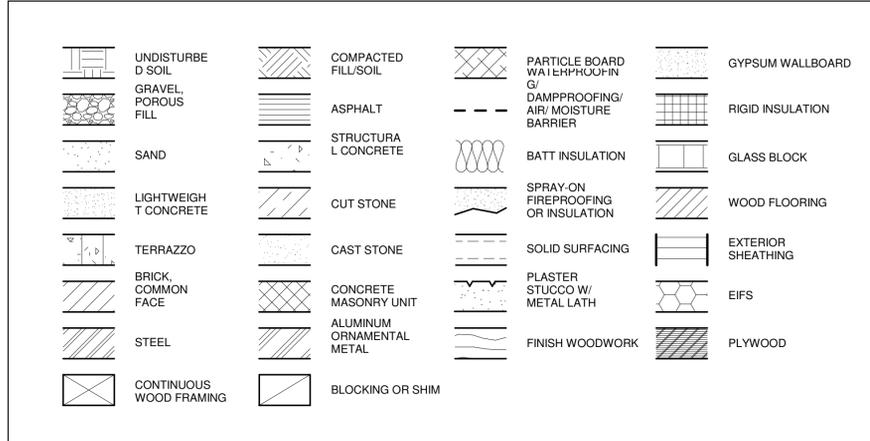
DRAWING SYMBOL LEGEND:



ANNOTATION SYMBOL LEGEND:



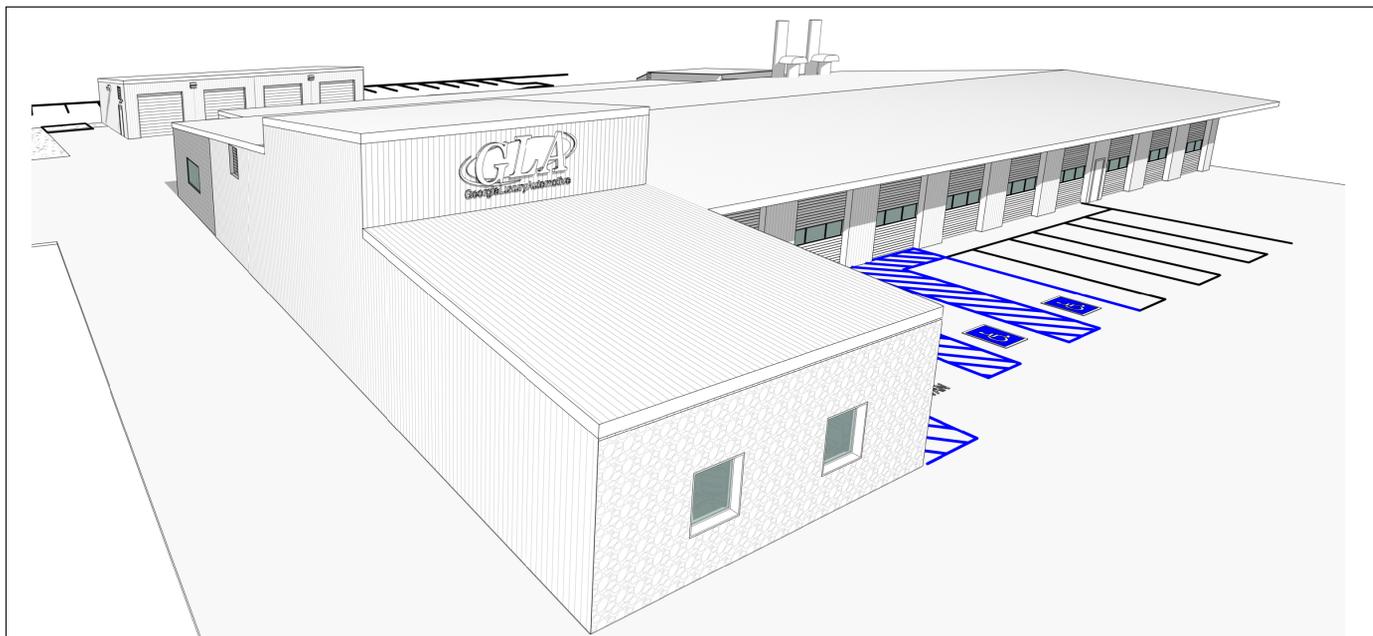
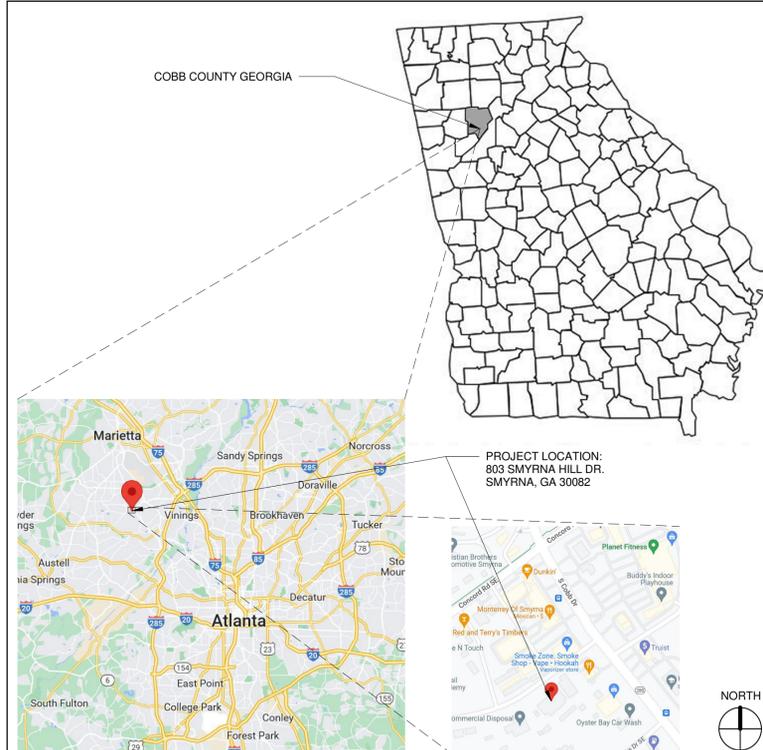
MATERIAL SYMBOL LEGEND:



PROJECT GENERAL NOTES:

- 1. THESE DRAWINGS INDICATE IN GENERAL THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN INTENT. THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. AS INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. 2. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL FLOOR/WALL PENETRATIONS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND DISCREPANCIES, IF ANY, TO BE BROUGHT TO NOTICE OF THE ARCHITECT PRIOR TO EXECUTION OF WORK. 3. THE CONTRACTOR SHALL CONDUCT HIS OWN SITE SURVEY OF THE EXISTING FACILITY AND REPORT ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS, IF ANY, TO THE ARCHITECT. 4. CONTRACTOR'S SHOP DRAWINGS SHOULD INDICATE ACTUAL FIELD CONDITIONS. 5. ALL EXISTING OR PROPOSED DIMENSIONS MUST BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE THE PREPARATION OF SHOP DRAWINGS OR COMMENCEMENT OF ANY ITEM OF WORK ON THE SITE OR BUILDING. 6. ARCHITECTURAL DRAWINGS MUST ALWAYS BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT SERVICES DRAWINGS AND CONTRACT DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DRAWINGS AND DOCUMENTS SHOULD BE REPORTED TO THE ARCHITECT FOR CLARIFICATION AND VERIFICATION. 7. THE CONTRACTOR SHALL SUBMIT SAMPLES AND SHOP DRAWINGS FOR ALL WORKS WITH ALL NECESSARY DETAILS AND DESIGN INFORMATION FOR APPROVAL. 8. NOTES APPEARING ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS ARE TO BE REVIEWED, COORDINATED AND ARE TO BE APPLIED TO ALL RELATED DRAWINGS AND DETAILS. 9. ALL NOTES ARE CONGRUENT FOR THE ENTIRE SET. IF A PARTICULAR NOTE DOES NOT APPEAR ON EACH DRAWING AND / OR DETAIL IT IS STILL APPLICABLE REGARDLESS OF NOT BEING CALLED OUT ON EVERY DRAWING AND / OR DETAIL.

LOCATION MAP

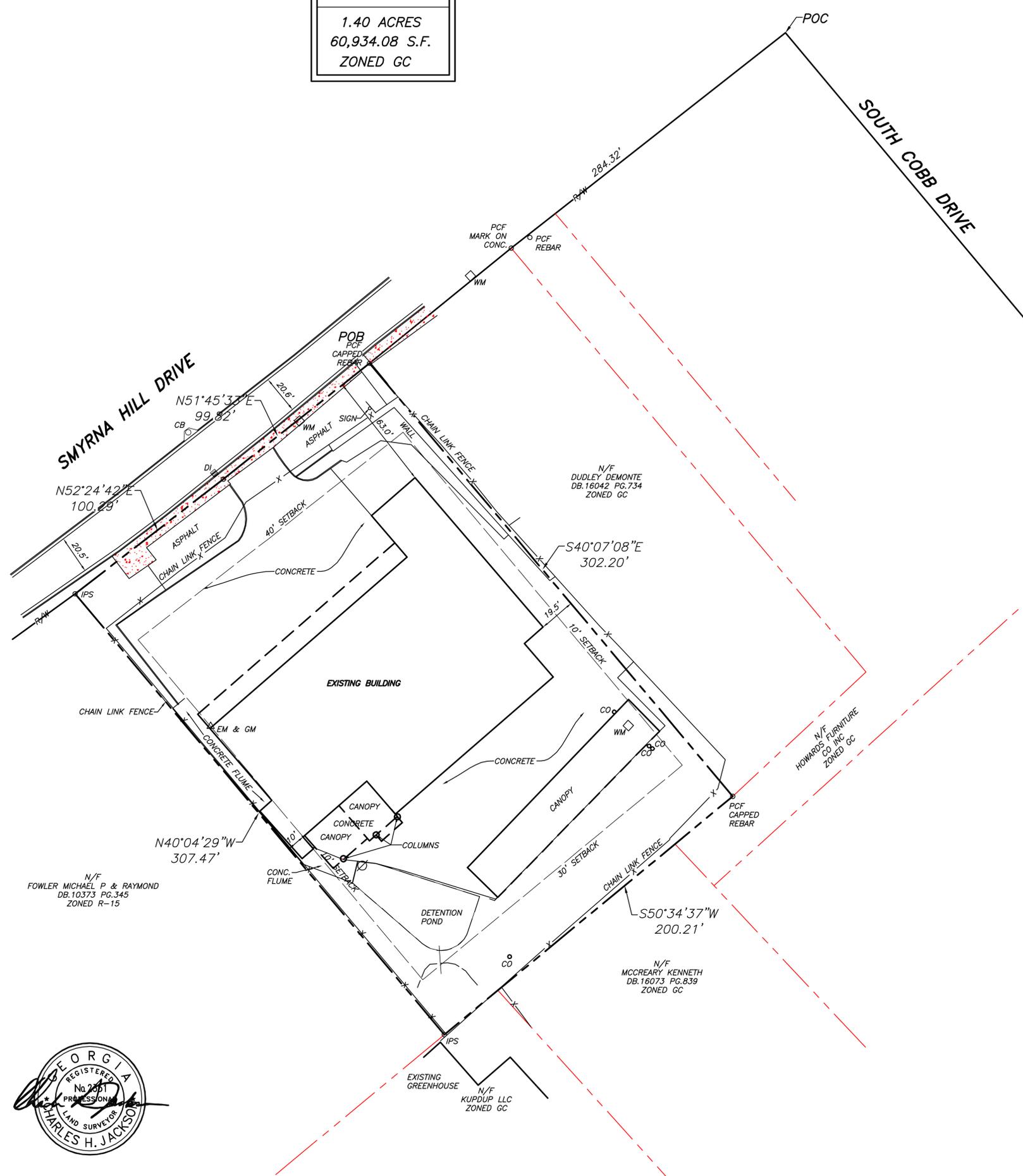
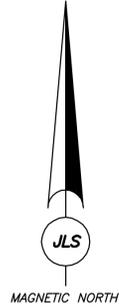


RENOVATION AND ADDITION - GEORGIA LUXURY AUTOMOTIVE

802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

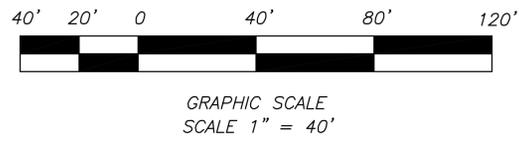
SITE SUMMARY
 1.40 ACRES
 60,934.08 S.F.
 ZONED GC

RESERVED FOR CLERK OF COURT



LEGEND

⊙	POWER POLE
— E —	OVERHEAD ELECTRIC
— —	STORM DRAINAGE PIPES
— —	CURB AND GUTTER
○	PROPERTY CORNER FOUND
○	IRON PIN SET
□ WM	WATER METER
□ GM	GAS METER
CB	CATCH BASIN
DI	DROP INLET
JB	JUNCTION BOX
N/F	NOW OR FORMERLY
CO	CLEAN OUT
MH	MANHOLE
EM	ELECTRIC METER



**JACKSON
 LAND
 SURVEYING
 P.C.**

**200
 MARILYN DRIVE EAST
 FAYETTEVILLE, GA.
 30214**

C : 6 7 8 . 7 2 5 . 5 4 3 5
 jacksonspc@gmail.com



ALTA / NSPS LAND TITLE SURVEY
 for
 802 SMYRNA HILL ROAD LLC
 FIRST-CITIZENS BANK & TRUST COMPANY
 U.S. SMALL BUSINESS ADMINISTRATION
 c/o SMALL BUSINESS ACCESS PARTNERS, INC.
 STEWART TITLE GUARANTY COMPANY
 WILLIAM E. PORTER, P.C.
 LOCATED IN LAND LOT 412, 17TH DISTRICT, 2ND SECTION, COBB COUNTY, GEORGIA

DATE	REVISION DESCRIPTION	INITIAL	ISSUE
3/20/2023			
#	A		

DRAWN BY: JAF
 DESIGNED BY: —
 SURVEYED BY: CHJ
 SURVEY DATE: 11/12/2022
 CHECKED BY: CHJ

PROJECT NAME:
 802
 SMYRNA HILL
 DRIVE

SHEET TITLE:
 ALTA / NSPS
 LAND TITLE
 SURVEY

PROJECT NO. SHEET NO.
 WEP340 2
 DATE: 3/20/2023
 ISSUE No. 1 of 2



FIRM INFORMATION:
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 2010 Nichols Landing Way
 Decula, GA 30019
 404.902.9195

ARCHITECT INFORMATION:
 Gabriel J. Richard AIA NCARB
 Registration: RA012322



AUTO BODY SHOP RENOVATION - BLDG 100
 802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
 DATE: 09/08/2023

REVISION SCHEDULE:

No.	Description	Date

SURVEY
 SHEET NAME:
G102
 SHEET NUMBER



gjrarchitect

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2010 Nichols Landing Way
Dacula, GA 30019
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ARCHITECT'S SEAL:

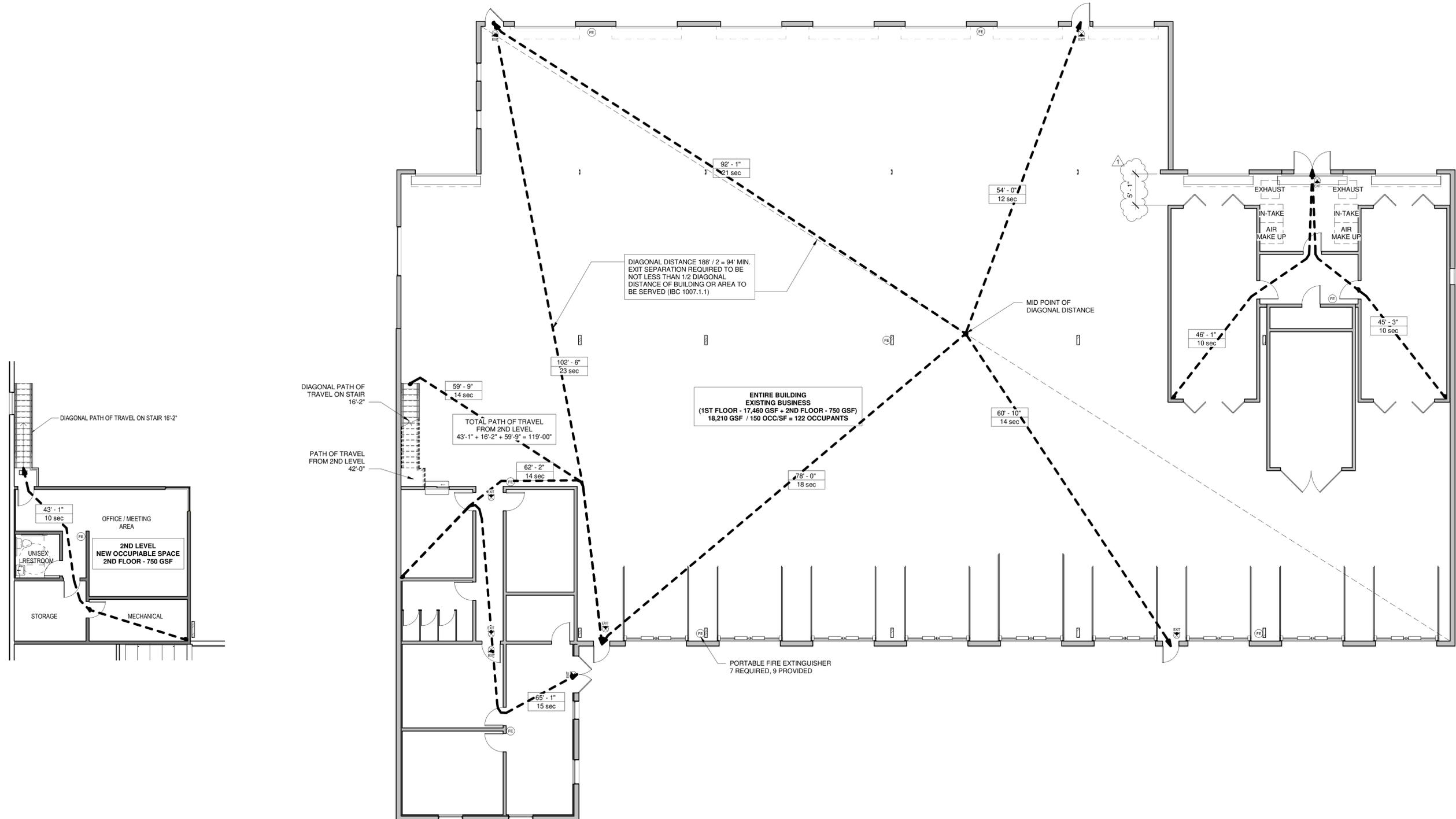


LIFE SAFETY LEGEND

- EXIT SIGN/EMERGENCY LIGHT
- EMERGENCY BATTERY PACK
- FIRE EXTINGUISHER
- TRAVEL DISTANCE
- HATCH INDICATES MERCANTILE OCCUPANCY (80 GROSS LOAD FACTOR)

LIFE SAFETY GENERAL NOTES

- PLANS ON THIS SHEET ARE FOR LIFE SAFETY & EGRESS IDENTIFICATION ONLY
- REFER TO ELECTRICAL DRAWINGS FOR EXIT SIGNAGE, EGRESS & EMERGENCY LIGHTING



AUTO BODY SHOP RENOVATION - BLDG 100
802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
DATE: 09/08/2023

REVISION SCHEDULE:		
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

LIFE SAFETY PLAN

SHEET NAME:

LS101

SHEET NUMBER

02 LIFE SAFETY PLAN - LEVEL 2
1/8" = 1'-0"

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

NOTES:

GENERAL CONDITIONS

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS.

VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AFFECTING NEW CONSTRUCTION BEFORE STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCY.

NOTIFY THE ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN IN THE CONTRACT DOCUMENTS.

CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE STRUCTURAL SYSTEM AND ITS ELEMENTS SHALL NOT BE CONSIDERED STABLE UNTIL THE STRUCTURE IS COMPLETE.

COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICT AND/OR OMISSION.

COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS, INSERTS, SLEEVES, CURBS, PADS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY DISCREPANCY BEFORE STARTING SHOP DRAWINGS OR ANY WORK. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE ARCHITECT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL. THE 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. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

EXISTING CONDITIONS SHOWN ON THESE CONTRACT DOCUMENTS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION, FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT / E.O.R. IF ANY INFORMATION FOUND ON THE CONTRACT DOCUMENTS CONFLICTS WITH THE FIELD VERIFIED CONDITIONS. IF ANY EXISTING CONDITIONS CONFLICT WITH CODE OF SAFETY REQUIREMENTS, NOTIFY THE ARCHITECT / E.O.R. IMMEDIATELY.

THE ARCHITECT / E.O.R. DOES NOT HAVE CONSTRUCTION ADMINISTRATION FOR THIS PROJECT NOR DOES THE ARCHITECT / DESIGNER HAVE ANY CONTRACTUAL OBLIGATION TO THE CLIENT BEYOND THE PREPARATION OF PERMITTABLE DOCUMENTS.

ALL CONTRACTORS, SUB-CONTRACTORS AND CONSULTANTS SHALL BE RESPONSIBLE FOR PROFESSIONAL AND PROPER PERFORMANCE OF THEIR WORK, COORDINATION, MEANS AND METHODS, SAFETY AND SECURITY AT THE JOB SITE. CONTRACTOR SHALL VERIFY EXISTING POWER IS ADEQUATE FOR TENANT REQUIREMENTS.

GENERAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY CONSTRUCTION BARRICADES AS REQUIRED. ALL DEMOLITION WORK SHALL COMPLY WITH O.S.H.A. STANDARDS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER SHORING AND BRACING AS REQUIRED TO SAFELY EXECUTE ALL WORK.

ANY & ALL GOVERNING LOCAL LABOR LAWS, REGULATIONS & REQUIREMENTS AND THOSE SET AS BUILDING REQUIREMENTS SHALL BE OBSERVED & FOLLOWED AS THEY RELATE TO THIS PROJECT.

CONTRACTOR SHALL OBTAIN ALL REQUIRED BUILDING PERMITS AND CERTIFICATE OF OCCUPANCY PERMIT.

MATERIALS, DIMENSIONS, AND OTHER CONDITIONS NOT OTHERWISE INDICATED IN THESE DRAWINGS SHALL BE ASSUMED AS HAVING THE SAME MEANING AS THOSE MOST SIMILARLY DETAILED AND MORE FULLY DEFINED ELSEWHERE IN THE DRAWINGS. CONTRACTOR TO VERIFY W/ ARCHITECT / E.O.R. IN WRITING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK & DURING CONSTRUCTION AS NECESSARY TO ASSURE ADHERENCE TO CONSTRUCTION DRAWINGS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS.

CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT / E.O.R. BEFORE PROCEEDING WITH WORK IN QUESTION.

CONTRACTOR SHALL VERIFY PRESENCE OF HAZARDOUS MATERIALS WITH OWNER. ARCHITECT / E.O.R. AND ITS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO, ASBESTOS, POLYCHLORINATED BIPHENYL(PCB) OR OTHER TOXIC SUBSTANCES. DO NOT PROCEED WITH REMOVAL OF HAZARDOUS MATERIALS WITHOUT PROPER PERMITTING IN ACCORDANCE WITH EPA STANDARDS AND/OR OTHER AGENCIES WITH JURISDICTION.

INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, EXCEPT THAT OF THE SPECIFICATIONS HEREIN, WHERE THE MOST STRINGENT, SHALL BE COMPLIED WITH.

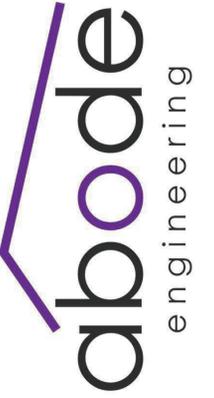
CONTRACTORS SHALL REMOVE ALL DEBRIS AND DISCARD PROPERLY. ANY REMAINING MATERIALS ARE TO BE MADE AWARE TO THE OWNER BEFORE REMOVAL FROM SITE. CONTRACTORS SHALL PATCH AND REPAIR ALL SURFACES, AREAS AND ITEMS REMAINING WHICH ARE DAMAGED OR HAVE BEEN DAMAGED DUE TO MODIFICATIONS.

DAMAGE: CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF ANY ACCIDENTAL DAMAGE HE INFLECTS UPON THE EXISTING WORK WHICH WILL REMAIN. IF FOR ANY REASON DAMAGE TO EXISTING WORK OR UTILITIES IS CONSIDERED TO BE UNAVOIDABLE, WRITTEN NOTIFICATION OF THIS SHOULD BE SUBMITTED BEFORE SIGNING THE CONTRACT. IN THE ABSENCE OF SUCH NOTIFICATION, CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR DAMAGE AND THE COSTS OF SATISFACTORILY REPAIRING OR REPLACING DAMAGED WORK / CONDITION.

FINAL CLEANING AT COMPLETION SHALL INCLUDE DUSTING OF ALL FINISHED SURFACES, VACUUMING, REMOVAL OF SPOTS, STAINS, LABELS, FINGERPRINTS, SPILLS, AND CLEANING OF ALL INTERIOR AND EXTERIOR GLASS.

CAST IN PLACE CONCRETE NOTES

1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
 - a) FOOTINGS, SLAB ON GRADE, SLAB FILL - 3,000 PSI
 - b) COLUMNS AND BEAMS - 4,000 PSI
2. CONCRETE SHALL BE READY-MIX PER ASTM C94:
 - a) PORTLAND CEMENT - ASTM C 150
 - b) AGGREGATES - ASTM C33 (3/4" MAX.)
 - c) NO CALCIUM CHLORIDE
 - d) AIR ENTRAINING - ASTM C260
 - e) WATER REDUCING - ASTM C494
 - f) FLY ASH - ASTM C618-78 CLASS F (28% MAX. BY WEIGHT)
 - g) WATER - CLEAN AND POTABLE
3. REINFORCING STEEL: ASTM A615 GRADE 60.
4. REQUIRED SLUMP RANGE = 3" TO 5".
5. WELDED WIRE FABRIC: ASTM A-185.
6. MOISTURE BARRIER: 6 MIL POLYETHYLENE.
7. CODES AND STANDARDS: (CURRENT EDITION)
- ACI 301 "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETE".
- ACI 318 BLDG. CODE REQ. FOR REINF. CONCRETE".
- ACI 315 "DETAILS AND DETAILING OF CONCRETE REINF.".
 8. MIN. LAP SPlice - 30 BAR DIA. U.O.N..
 9. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC., AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.
10. ALL BEAMS, SPANDRELS, AND SLABS SHALL BE POURED MONOLITHICALLY, EXCEPT FOR REQUIRED CONSTRUCTION JOINTS. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
11. CONTRACTOR SHALL VERIFY LOCATION OF ALL OPENINGS, SLEEVES, AND SLAB RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER.
12. CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REB
13. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
 - a) APPLY A 30% SOLID LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C-309.
 - b) PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH SCI 301.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORINGS, AND RESHORINGS.
16. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS ON SITE (IF APPLICABLE).
 - a) CYLINDER STRENGTH TEST - ASTM C39, ONE SET OF FOUR CYLINDERS FOR EACH 50 CU. YDS. OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD THE FINAL CYLINDER IN RESERVE.
 - b) SLUMP TEST - ASTM C143
17. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
18. RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR AND DO NOT EXCEED SLUMP LIMITATIONS OR TOTAL ALLOWABLE WATER TO CEMENT RATIO. USE COLD WATER FROM THE TRUCK TANK AND REMIX TO ACHIEVE CONSISTENCY. THE REPORTS SHALL INDICATE HOW MUCH WATER WAS ADDED AT THE JOB SITE.
19. REINFORCING BAR COVER:
 - a) FOOTINGS 3"
 - b) SLABS 3/4" (INTERIOR) 1-1/2" (EXTERIOR)
20. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
21. WHERE BAR LENGTHS ARE GIVEN ON DRAWINGS, LENGTH OF HOOK, IF REQUIRED, IS NOT INCLUDED.
22. PROVIDE COMMERCIAL FORM COATING COMPOUNDS THAT WILL NOT BOND, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES. WET FORMS BEFORE PLACING CONCRETE.
23. ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.
24. REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, EXCEPT WHERE REINFORCING IS VISIBLE. CONTACT STRUCTURAL ENGINEER FOR EVALUATION OF EXPOSED REINFORCING.
25. PROVIDE CORNER BARS AT ALL BEAM AND WALL FOOTING CORNERS TO MATCH HORIZONTAL BARS.
26. ALL BUILDING AND SITE SLABS-ON-GRADE SHALL BE AT LEAST 4" THICK, REINFORCED WITH 6X6-W1.4 W.W.F. ON 6 MIL VAPOR BARRIER, WITH SAWCUT CONTROL JOINTS 20'-0" O.C. EACH WAY.
28. STEP AND SLOPE ALL WALKWAYS AWAY FROM THE BUILDING.
29. CONTROL JOINTS SHALL BE CUT INTO CONCRETE SLABS AT A MIN. DEPTH OF 1/4" AND A MAX. DEPTH OF 3/4" TO CONTROL RANDOM CRACKING FROM SETTLING AND FACILITATE UNIFORMED CONTRACTION. *JOINTS SHALL BE PLACED BETWEEN 15' AND 25' APART THROUGHOUT THE CONCRETE SLAB SURFACE.



2ND FLOOR ADDITION
802 SMYRNA HILL DR
SMYRNA, GA

CLIENT:
ZACH KAF AEI / GLM

DRAWN BY:
AMANDA CHERRY

PROJECT NO:
23025G

STRUCTURAL
NOTES

N.1

COLD FORMED STEEL NOTES

1. ALL STEEL FRAMING SHALL CONFORM TO "THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, BY THE AISI.
2. WELDED CONNECTIONS SHALL CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION, DI.0" BY THE AWS.
3. ASTM A-568 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR STEEL, CARBON AND HIGH STRENGTH LOW-ALLOY HOT ROLLED SHEET AND COLD ROLLED SHEET.
4. ALL STEEL SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN LIGHT GAUGE STEEL FRAMING INSTALLATION.
5. WHERE STEEL FRAMING MEMBERS ARE COMPONENTS OF ASSEMBLIES INDICATED FOR A FIRE RESISTANCE RATING, INCLUDING THOSE REQUIRED FOR COMPLIANCE WITH GOVERNING REGULATIONS, PROVIDE MEMBERS WHICH HAVE BEEN APPROVED BY GOVERNING AUTHORITIES HAVING JURISDICTION.
6. PROTECT LIGHT GAUGE STEEL FRAMING MEMBERS FROM RUSTING AND DAMAGE. DELIVER TO PROJECT SITE IN BUNDLES, FULLY IDENTIFIED WITH NAME, BRAND, TYPE AND GRADE. STORE OFF GROUND IN A DRY VENTILATED SPACE OR PROTECT WITH SUITABLE WATERPROOF COVERINGS.
7. WITH EACH TYPE OF STEEL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE STEEL FRAMING SYSTEM.
8. FABRICATE METAL FRAMING COMPONENTS OF STRUCTURAL QUALITY SHEET STEEL WITH MIN. YIELD POINT OF 40,000 PSI FOR STUDS, AND 33,000 PSI FOR RUNNERS, ASTM A446.
9. SCREWS SHALL BE AS RECOMMENDED BY MANUFACTURERS.
10. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A525 WITH A G60 COATING.
11. PROVIDE MANUFACTURER'S STANDARD STRUCTURAL "C" SHAPED STEEL STUDS OF SIZE, SHAPE, AND GAUGE INDICATED BY UNIMAST, INC. OR PRIOR APPROVED EQUAL.
12. IF ASSEMBLING FRAMING COMPONENTS INTO PREFABRICATED PANELS PRIOR TO ERECTION, PANELS MUST BE PLUMB, SQUARE, AND TRUE TO LINE AND BRACED AGAINST RACKING WITH JOINTS WELDED. INSTALL PREFABRICATED PANELS IN A MANNER TO PREVENT DAMAGE OR DISTORTION.
13. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
14. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUD DEPTH. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" O.C. SPACING. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACKS.
15. IF APPLICABLE, FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS, AS SHOWN FOR WALL SYSTEM, WITH SEPARATE STUDS AND DO NOT BRIDGE THE JOINT WITH COMPONENTS OF THE STUD SYSTEM.
16. WHERE REQUIRED, TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
17. RESISTANCE TO BENDING AND ROTATION ABOUT THE MINOR AXIS SHALL BE PROVIDED BY MECHANICAL LATERAL BRACING WHERE REQUIRED.
18. ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE DONE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED.
19. WELDING OF MEMBERS LIGHTER THAN 18 GA. SHALL NOT BE PERMITTED.
20. SPLICES SHALL NOT BE PERMITTED.
21. MIN. NUMBER OF EQUALLY SPACED HORIZONTAL WALL BRIDGING FOR THE HEIGHTS SHOWN:
 UP TO 10' - 1 ROW
 10' TO 14' - 2 ROWS
 ABOVE 14' - AT 4' CENTERS
22. FULLY INSTALL ALL BRIDGING BEFORE APPLYING LOADS.
23. FOR WELDED CONNECTIONS, FUSION WELDING IS RECOMMENDED WITH A DIRECT CURRENT WELDER OF 200 OR MORE AMPERE CAPACITY. USE A HEAT OF 60 TO 90 AMPERES (DEPENDING ON THE GAUGE OF METAL) ALONG WITH ASTM E60 ELECTRODES.

STRUCTURAL WOOD FRAMING

1. ALL WOOD FRAMING SHALL BE FABRICATED AND INSTALLED PER AITC, TPI, AND NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
 2. TYPICAL BEARING STUD WALLS TO BE 2" X 4" @ 16" O.C. - EXTERIOR AND INTERIOR U.O.N.. EXTERIOR STUD WALL DESIGN SHALL COMPLY WITH THE AMERICAN WOOD COUNCIL'S WOOD FRAME CONSTRUCTION MANUAL (WFCM) AND E.O.R. SPECIFICATIONS. (SEE S-3 FOR DETAILS)
 3. ALL STRUCTURAL WOOD MEMBERS SHALL HAVE A MIN. EXTREME FIBER STRESS IN BENDING (Fb)=1,200 PSI
 4. THE FOLLOWING MIN. LUMBER GRADES SHALL BE USED UNLESS NOTED OTHERWISE:
 A= STRUCTURAL LIGHT FRAMING SIZE 2" TO 4" THICK X 2" TO 4" WIDE #2 OR BETTER.
 B= STUD SIZE 2" TO 4" THICK X 2" TO 6" WIDE STUD GRADE.
 C= STRUCTURAL JOISTS AND PLANKS SIZE 2" TO 4" THICK X 5" AND WIDER #2 OR BETTER.
 5. ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL SHALL BE PRESSURE-TREATED.
 6. CONTRACTOR SHALL PROVIDE ALL FASTENING DEVICES NECESSARY AND SUITED FOR EACH APPLICATION.
 7. ALL METAL CONNECTORS AND FABRICATIONS SHALL COMPLY WITH AISC SPECIFICATIONS. FRAMING CONNECTORS TO BE SIMPSON, AS DETAILED OR EQUAL.
 8. SOLID BLOCK ALL JOISTS AND RAFTERS AT POINTS OF SUPPORT.
 9. PREFABRICATED TRUSSES SHALL COMPLY WITH NFPA FOR WOOD CONSTRUCTION, TPI DESIGN SPECIFICATIONS FOR METAL PLATES CONNECTED TO WOOD TRUSSES AND AITC 100.
 10. ALL TRUSSES SHALL BE DESIGNED AND CERTIFIED BY TRUSS MANUFACTURER ENGINEER.
 11. CONTRACTOR SHALL CORRELATE WITH TRUSS MANUFACTURER TO ENSURE ADEQUATE BEARING IS PROVIDED AT END REACTIONS OF ALL GIRDER TRUSSES.
 12. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO CONTRACTOR AND DESIGNER FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND VERIFICATIONS.
 13. BRACE TRUSSES DURING ERECTION AND AFTER PERMANENT INSTALLATION TO COMPLY WITH TPI BWT-76.
 14. ALL ROOF TRUSS AND WALL FRAMING SHALL BE FASTENER ATTACHMENT TO COMPLY WITH LOCAL BUILDING CODES.
 15. ROOF PLYWOOD SHEATHING PANEL EDGES SHALL BEAR ON FRAMING MEMBERS AND BUTT ALONG CENTER LINES WITH PANEL EDGES STAGGERED.
 16. PROVIDE ATTIC VENTILATION VIA HIP RIDGE AND SOFFIT VENTS EQUAL TO 1 SQ. FOOT PER 150 SQ. FEET OF ATTIC FLOOR SPACE. ALLOW NO MORE THAN 50% OF TOTAL VENTING TO OCCUR AT THE HIP AND RIDGE AREAS.
 17. VENTILATED SOFFIT MATERIAL SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS FOR CROSS VENTILATION. RIDGE VENT AND OFF RIDGE VENTS CAN BE INSTALLED AS REQUIRED.
 18. ALL ROOF FLASHING TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMUM NOMINAL 0.019 (0.483 MM) THICKNESS OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LB PER 100 SQ FT (3.76 KG/M2). CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL 0.019 INCH (0.483 MM) THICKNESS.
 LUMBER AND PLYWOOD
- *ALL SAWN LUMBER SHALL BEAR THE STAMP OF WWPA OR APPROVED TESTING AGENCY. FRAMING UNITS/STUDS SHALL BE SOUTHERN YELLOW PINE (#3 STUD GRADE OR BETTER, TYPICALLY #2) OR APPROVED EQUAL. ROOF SHEATHING SHALL BE MIN. 7/16" EXTERIOR GRADE MEETING APA STANDARDS. ALL LUMBER SPECIES AND GRADES SHALL COMPLY WITH DOC PS 20 PER FBC-R602.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION, EXCEPT CHAPTER 4.2.1, CODE OF STANDARD PRACTICE.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1. ALL WELDING SHALL BE PERFORMED USING E70XX, LOW HYDROGEN ELECTRODES, U.O.N.. ELECTRODES ARE TO BE PROTECTED FROM MOISTURE.
3. ALL CONNECTIONS TO BE DOUBLE-ANGLE FRAMED BEAM CONNECTIONS PER AISC U.O.N.. ALL BOLTS TO BE 3/4" DIA. U.O.N.. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS. ALL FIELD CONNECTIONS ARE TO BE BOLTED WITH ASTM A325N OR A490 BOLTS (BEARING TYPE BOLTS WITH THREADS IN THE SHEAR PLANE) INCLUDING SUITABLE NUTS AND PLANE HARDENED WASHERS. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT U.O.N.. DESIGN CONNECTIONS FOR THE LARGER OF EITHER THE SHEAR SHOWN ON THE DRAWINGS, (INDICATED AS "V = K" AT ENDS OF MEMBER) OR 55% OF THE TOTAL LOAD CAPACITY DERIVED FROM THE UNIFORMED LOAD TABLES, PART 2 LATEST EDITION OF AISC CODE. STRESS REDUCTIONS MUST BE TAKEN WITH THE USE OF LONG SLOTTED HOLES.
4. SIZE AND USE OF HOLES, SEE AISC TABLE B.1 U.O.N..
 - 4.1. LARGER HOLES ARE PERMITTED IN STANDARD COLUMN BASE PLATES. MAX. HOLE DIA. = BOLT DIA. + 3/8". HARDENED WASHERS, TO COVER LARGER HOLE, SHALL BE PROVIDED.
 - 4.2. LARGER HOLES ARE NOT PERMITTED IN WIND FRAME COLUMN BASE PLATES. MAX. HOLE DIA. = BOLT DIA. + 1/16".
 - 4.3. SLOTTED HOLES: A PLATE WASHER OR A CONTINUOUS BAR WITH STANDARD HOLES, HAVING A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION, AND A MIN. OF 5/16" THICK SHALL BE PROVIDED. TACK WELD NUT TO BOLT AFTER ERECTION.
5. ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.
6. VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS.
7. SHOP PAINT - METAL ALKYD-OIL PRIMER, ANY OF THE FOLLOWING: PORTER NO. 298, MOBILE NO. 13F812, TINEMEC NO. 1009, AMERON NO. 5102 AMERCOAT. SEE CUSTOMER / CONTRACTOR FOR PREFERRED COLOR.
8. SURFACE PREPARATION - PREPARE STEEL SURFACE IN ACCORDANCE WITH SSPC-PAI, SHOP FIELD AND MAINTENANCE PAINTING. ANY METHOD IN CONFORMANCE WITH AN SSPC SPECIFICATION OF HIGHER QUALITY THAN LISTED WILL BE ACCEPTABLE. AT OPTION OF CONTRACTOR, WHEELABRATOR MAY BE USED FOR PREPARATION OF STEEL SURFACES, PROVIDING RESULTANT SURFACE IS EQUAL IN ALL RESPECTS TO THOSE REQUIRED.
9. STRUCTURAL STEEL SHAPES, PLATES, ETC. - ASTM A36.
10. STRUCTURAL STEEL TUBING - ASTM A500 GRADE B.
11. STEEL PIPE - ASTM A501.
12. ANCHOR BOLTS - ASTM A307.
13. COLUMN SPLICES SHALL BE DESIGNED IN ACCORDANCE WITH TABLE A-7, PAGE II-A12 OF THE AISC "STRUCTURAL STEEL DETAILING" MANUAL.
14. NO SPLICES SHALL BE PERMITTED IN ANY STRUCTURAL STEEL MEMBER UNLESS SHOWN ON APPROVED SHOP DRAWINGS.
15. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL LAYOUTS AND DETAILS, SIZES OF MEMBERS, TYPES OF STEEL, CONNECTION DETAILS, WELDS, BOLTS, ETC., AS REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING. ALL CONNECTIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BY THE DETAILER AND SUBMITTED ON SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER. STEEL STAIRS SHALL ALSO BE SUBMITTED ON SEALED DRAWINGS.
16. NON-SHRINK GROUT SHALL BE: NONMETALLIC SHRINKAGE-RESISTANT GROUT, PREMIXED, NONMETALLIC, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH CE-CRD-C621.
17. ERECTION
 - 17.1. BEFORE ERECTION, THE CONTRACTOR IS TO REMOVE ALL MUD, DIRT OR OTHER FOREIGN MATTER, WHICH ACCUMULATES DURING HANDLING AND STORAGE.
 - 17.2. DRIFTING TO ENLARGE UNFAIR HOLES WILL NOT BE PERMITTED.
 - 17.3. AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS WHERE SHOP COAT HAS BEEN DAMAGED. SPOT AND PRIME AREAS USING SAME MATERIALS AS SHOP COAT.
 - 17.4. SET ALL MEMBERS SO THAT, IN THEIR FINAL LOCATION, LEVEL, PLUMBNESS AND ALIGNMENT ARE WITHIN THE TOLERANCES PRESCRIBED BY AISC CODE.



2ND FLOOR ADDITION
802 SMYRNA HILL DR
SMYRNA, GA

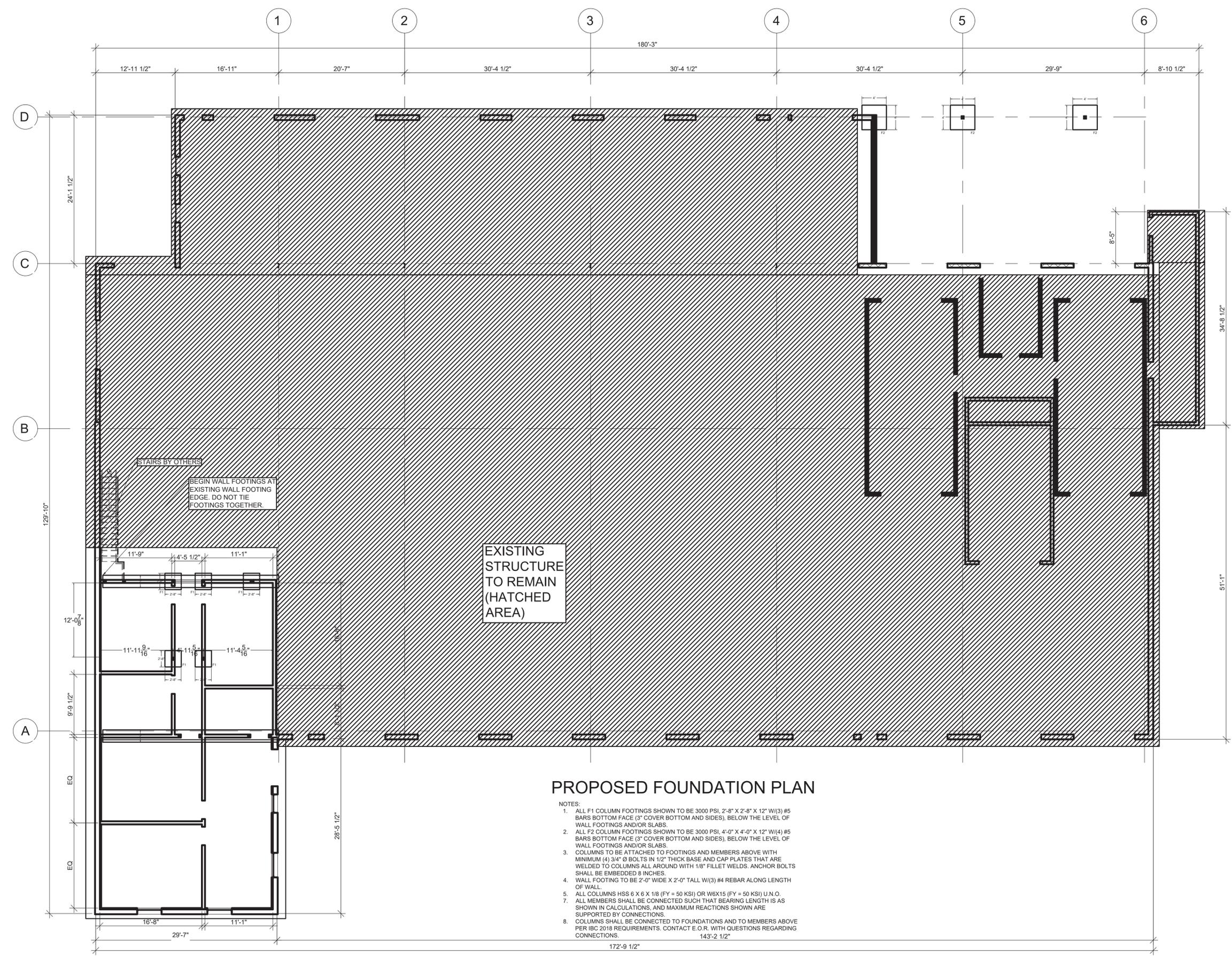
CLIENT:
ZACH KAF AEI / GLM

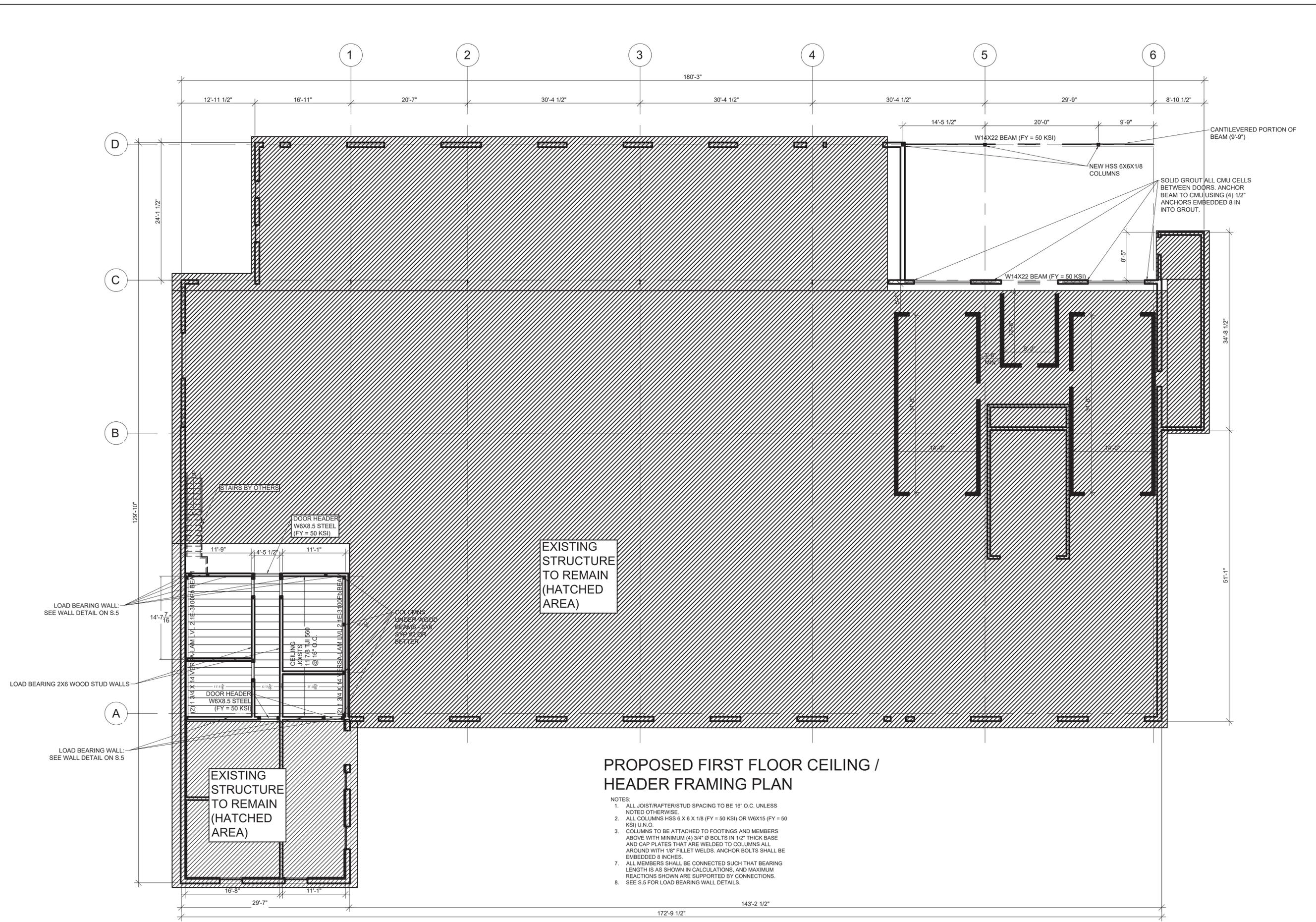
DRAWN BY:
AMANDA CHERRY

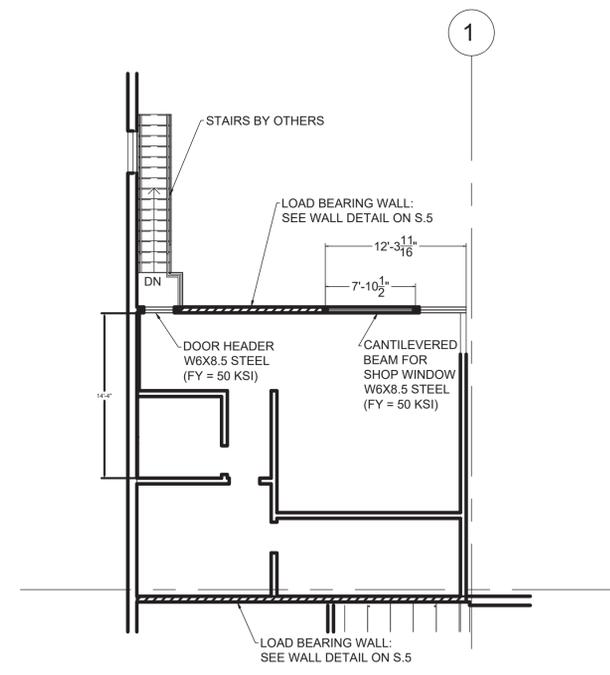
PROJECT NO:
23025G

STRUCTURAL
NOTES

N.2

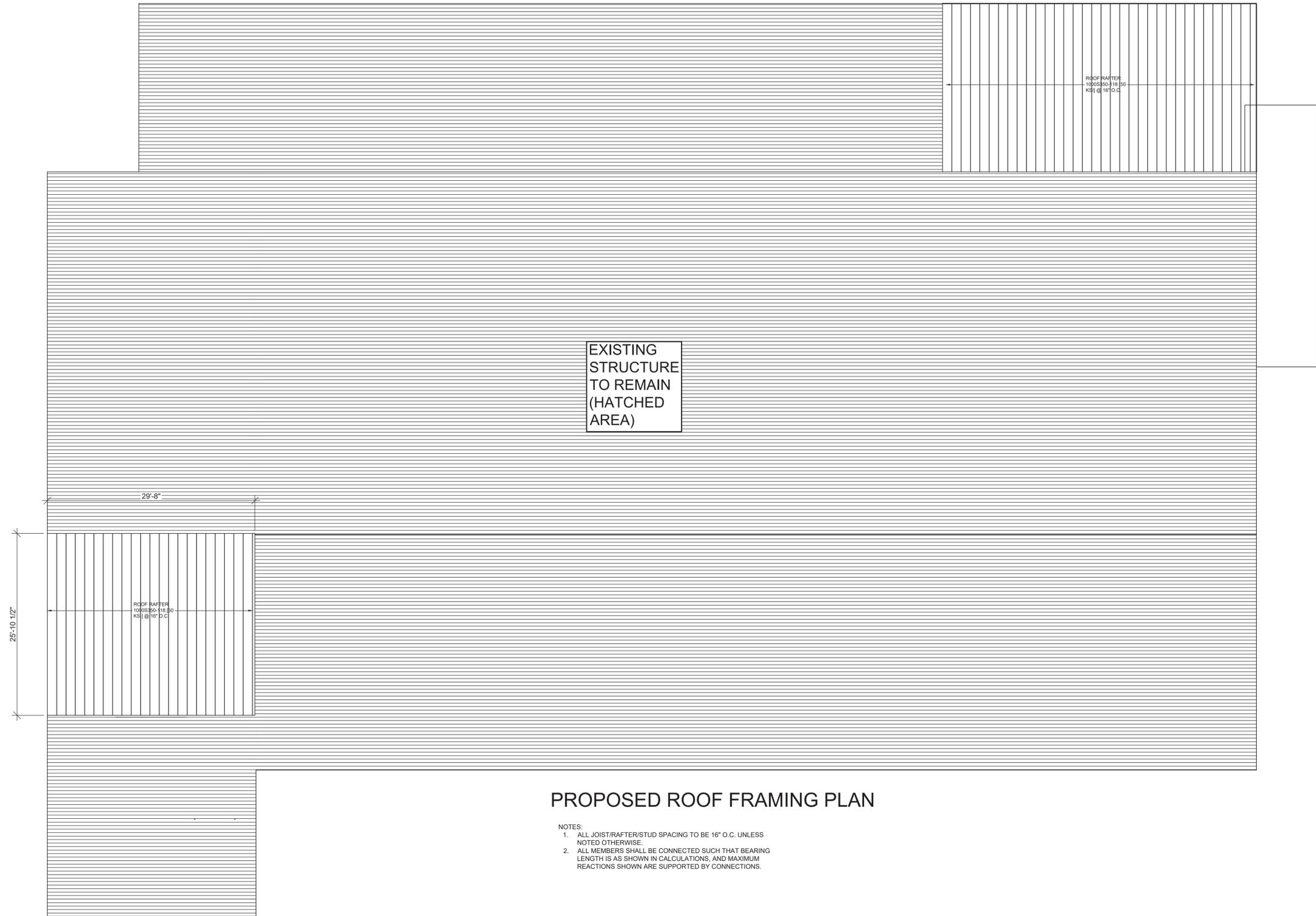






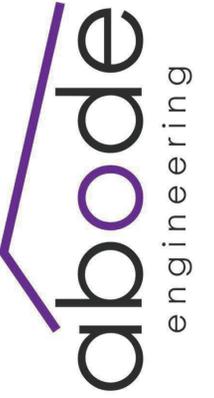
**PROPOSED SECOND FLOOR CEILING /
 HEADER FRAMING PLAN**

- NOTES:
1. ALL JOIST/RAFTER/STUD SPACING TO BE 16" O.C. UNLESS NOTED OTHERWISE.
 2. ALL COLUMNS HSS 6 X 6 X 1/8 (FY = 50 KSI) OR W6X15 (FY = 50 KSI) U.N.O.
 7. ALL MEMBERS SHALL BE CONNECTED SUCH THAT BEARING LENGTH IS AS SHOWN IN CALCULATIONS, AND MAXIMUM REACTIONS SHOWN ARE SUPPORTED BY CONNECTIONS.



PROPOSED ROOF FRAMING PLAN

- NOTES:
1. ALL JOIST/RAFTER/STUD SPACING TO BE 16" O.C. UNLESS NOTED OTHERWISE.
 2. ALL MEMBERS SHALL BE CONNECTED SUCH THAT BEARING LENGTH IS AS SHOWN IN CALCULATIONS, AND MAXIMUM REACTIONS SHOWN ARE SUPPORTED BY CONNECTIONS.



2ND FLOOR ADDITION
802 SMYRNA HILL DR
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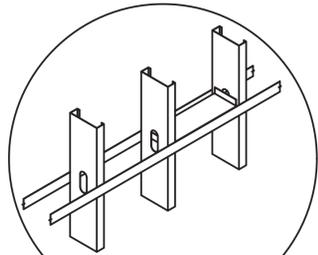
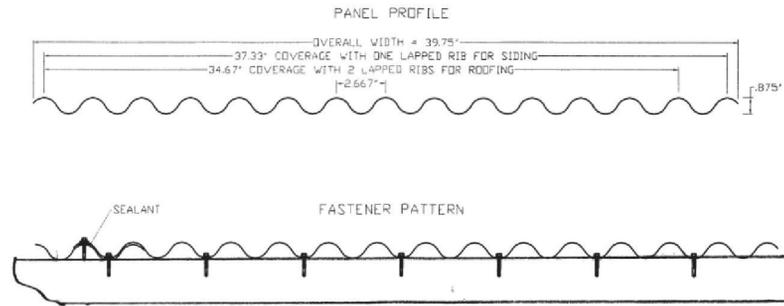
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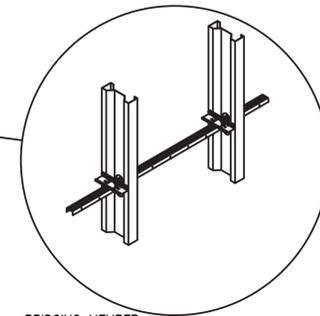
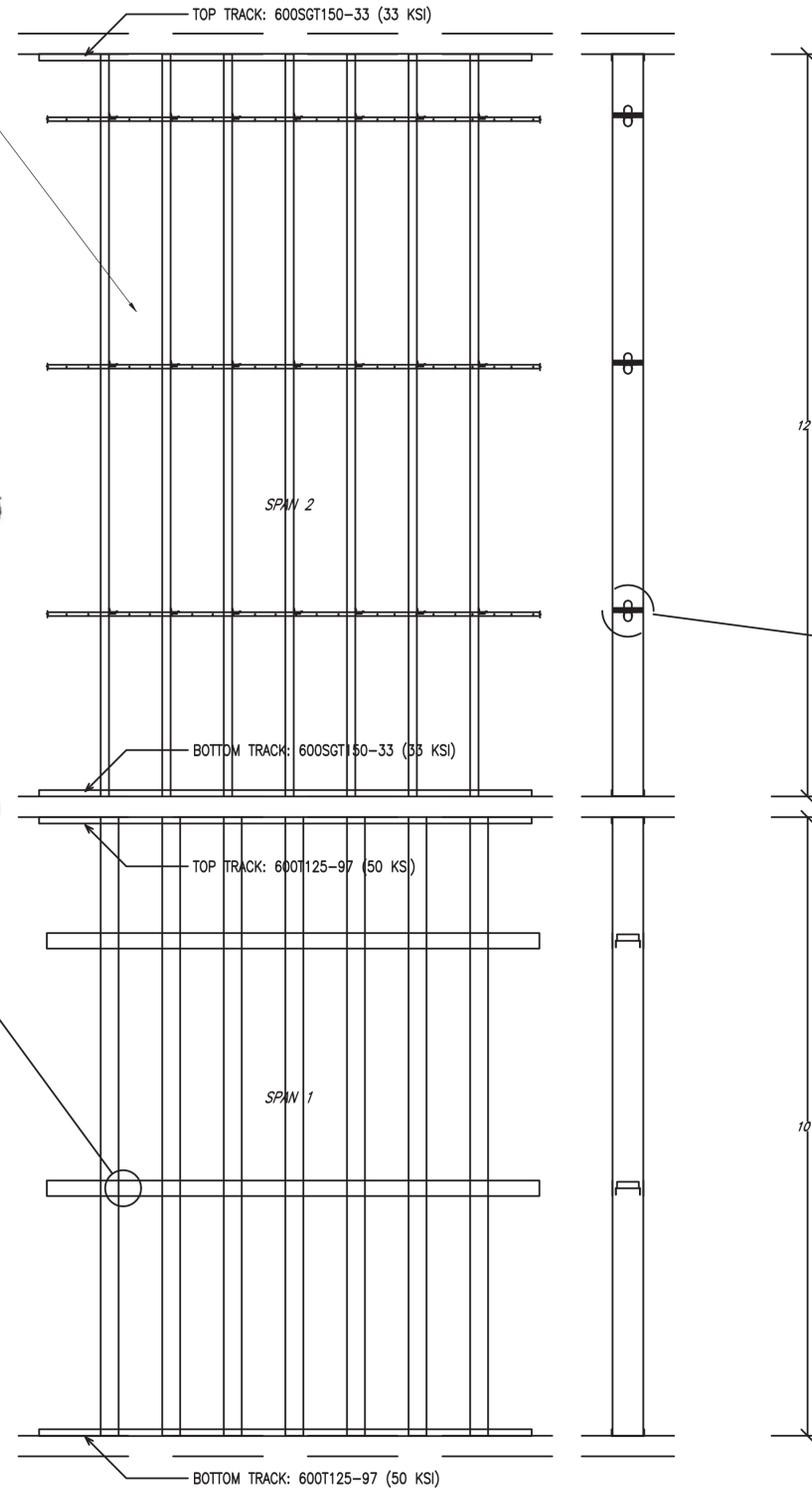
ROOF FRAMING
PLAN

S.4

EXTERIOR SHEATHING TO BE PAC-CLAD 2.67" X 7/8" CORRUGATED, 24 GAGE OR 0.032" ALUMINUM OR EQUIVALENT WITH PANELS THROUGH FASTENED TO 16 GAGE SUPPORTS WITH 1/4-14 X 1 1/4 SCREWS WITH 5/8" SEAL WASHERS; SPACED IN EVERY SECOND VALLEY FOR A TOTAL OF (7) SCREWS PER 39.75" PANEL. STITCH SCREWS OF #12-14 X 1 ARE SPACED IN SIDELAPS AT 12" O.C. 1/8" X 1/2 BUTYL TAPE IS REQUIRED FOR ROOF APPLICATIONS.



BRIDGING MEMBER:
 (2) 3" X 43 MILS, 50 KSI FLAT STRAP
 CONNECTION OF SINGLE FLAT STRAP TO ANCHORAGE STUD:
 7 (#10)
 CONNECTION OF SINGLE FLAT STRAP TO WALL STUD:
 2 (#10)



BRIDGING MEMBER:
 TSN BRIDGEBAR
 BRIDGING CLIP:
 BC 600
 CONNECTION OF CLIP TO WALL STUD:
 2 (#10)
 CONNECTION OF CLIP TO BRIDGING MEMBER:
 2 (#10)

WALL STUD		
SPAN 1	600S350-118 (50 KSI) STUD SPACING: 12" O.C.	
SPAN 2	600SG162-33 (50 KSI) STUD SPACING: 12" O.C.	

LOAD BEARING WALL DETAIL (REFERENCED ON S.2)

- NOTES:
1. WALL STUD SPACING TO BE 12" O.C. UNLESS NOTED OTHERWISE.
 2. ALL COLUMNS HSS 6 X 6 X 1/8 (FY = 50 KSI) OR W6X15 (FY = 50 KSI) U.N.O.
 3. ALL MEMBERS SHALL BE CONNECTED SUCH THAT BEARING LENGTH IS AS SHOWN IN CALCULATIONS, AND MAXIMUM REACTIONS ARE SUPPORTED BY CONNECTIONS.
 4. SHEATHING PANELS SHALL BE LAPPED AGAINST PREVAILING WINDS.
 5. SHEATHING PANEL SIDE LAP FASTENERS ARE REQUIRED, AT 16" O.C.
 6. SHEATHING PANEL SHALL BE LAPPED 2 CORRUGATIONS FOR ROOFING; ONE FOR SIDING.



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Registration: RA012322

ARCHITECT'S SEAL:



AUTO BODY SHOP RENOVATION - BLDG 100

802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
DATE: 09/08/2023

REVISION SCHEDULE:

No. Description Date

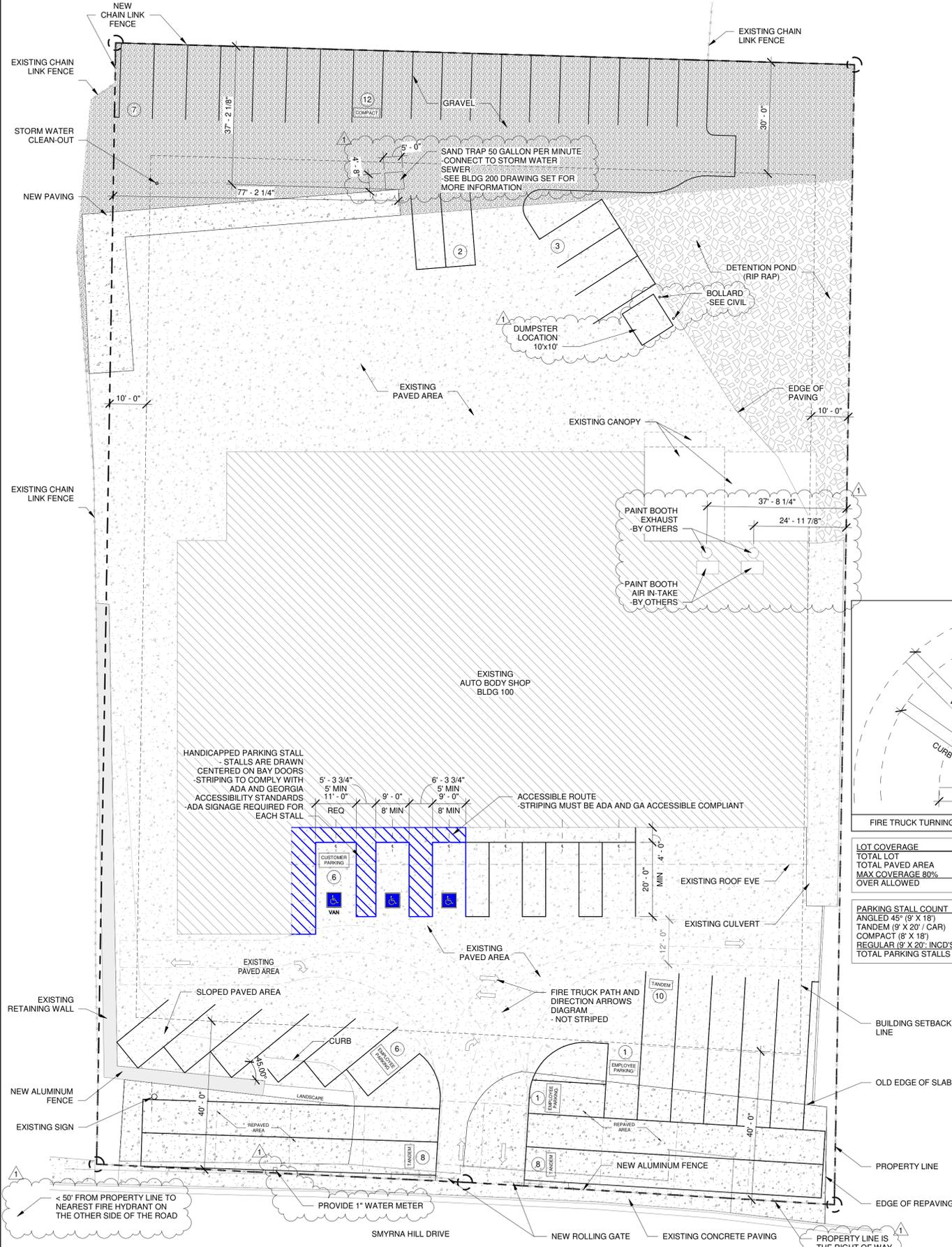
1 REVIEW COMMENTS 1 11/10/2023

ARCHITECTURAL SITE PLANS

SHEET NAME:

A100

SHEET NUMBER



LOT COVERAGE	
TOTAL LOT	60,794 S.F.
TOTAL PAVED AREA	48,759 S.F.
MAX COVERAGE 80%	48,635 S.F.
OVER ALLOWED	124 S.F.

PARKING STALL COUNT	
ANGLED 45° (9' X 18')	6
TANDEM (9' X 20' / CAR)	26
COMPACT (8' X 18')	12
REGULAR (9' X 20' - INCD'S ADA)	20
TOTAL PARKING STALLS	64

ADA PARKING	
TOTAL PARKING SPACES	MINIMUM ACCESSIBLE SPACES
51 TO 75	3
AT LEAST ONE OF EVERY SIX MUST BE VAN ACCESSIBLE	

02 SITE PLAN - NEW
1/16" = 1'-0"



01 SITE PLAN - EXISTING & DEMOLITION
1/16" = 1'-0"





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802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
DATE: 09/08/2023

REVISION SCHEDULE:

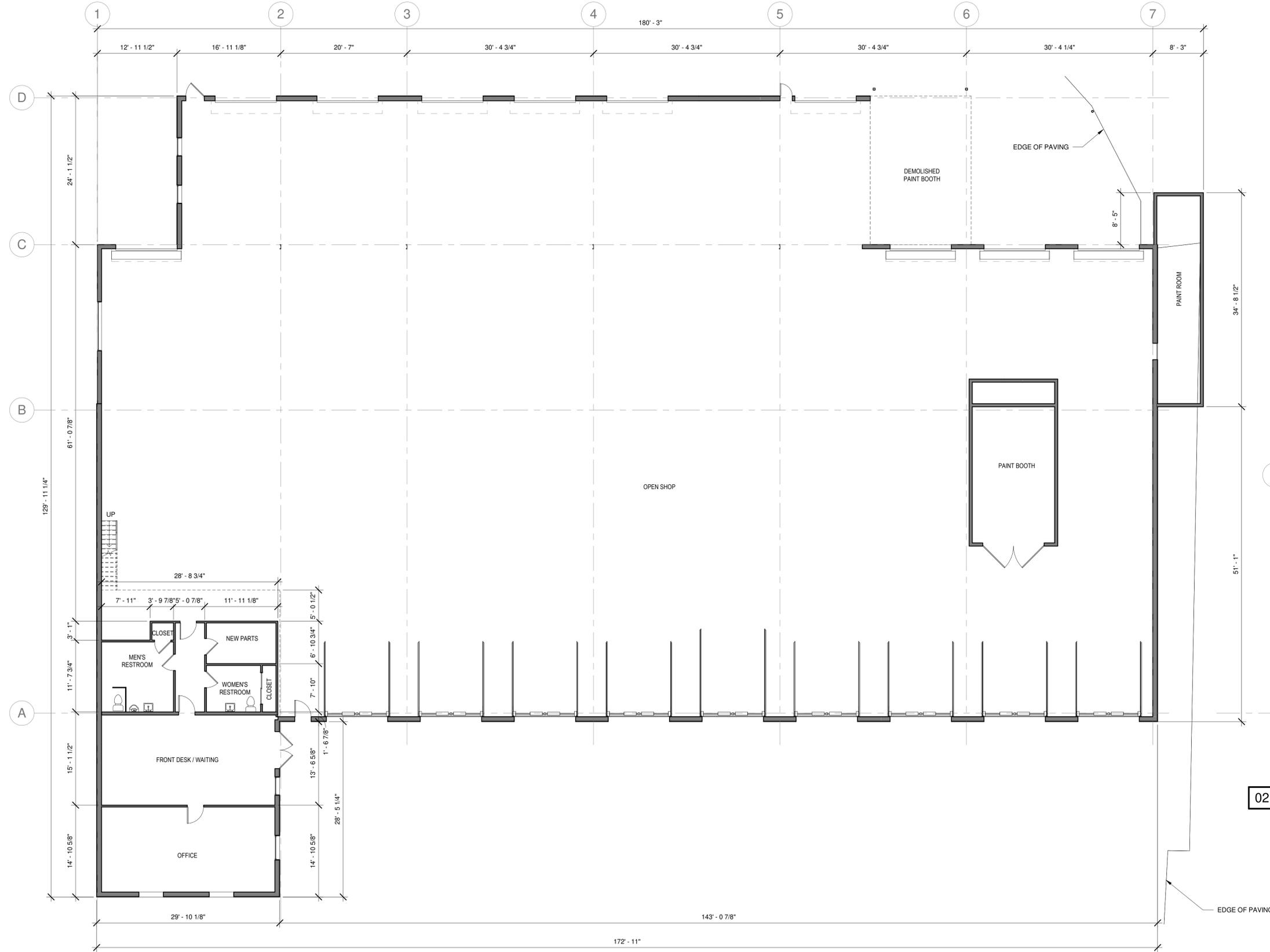
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EXISTING - FLOOR PLANS

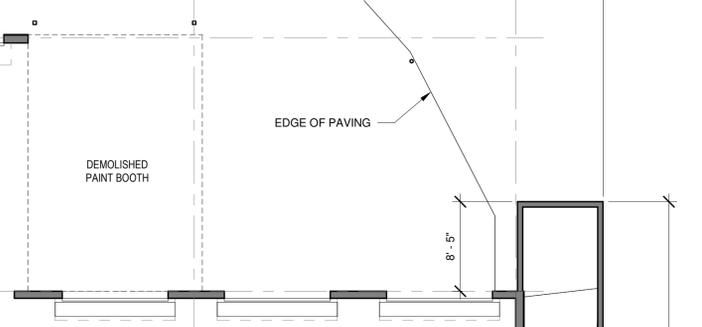
SHEET NAME:

A101

SHEET NUMBER



01 FLOOR PLAN - LEVEL 1 - EXISTING
1/8" = 1'-0"



02 FLOOR PLAN - LEVEL 2 - EXISTING
1/8" = 1'-0"



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ARCHITECT'S SEAL:



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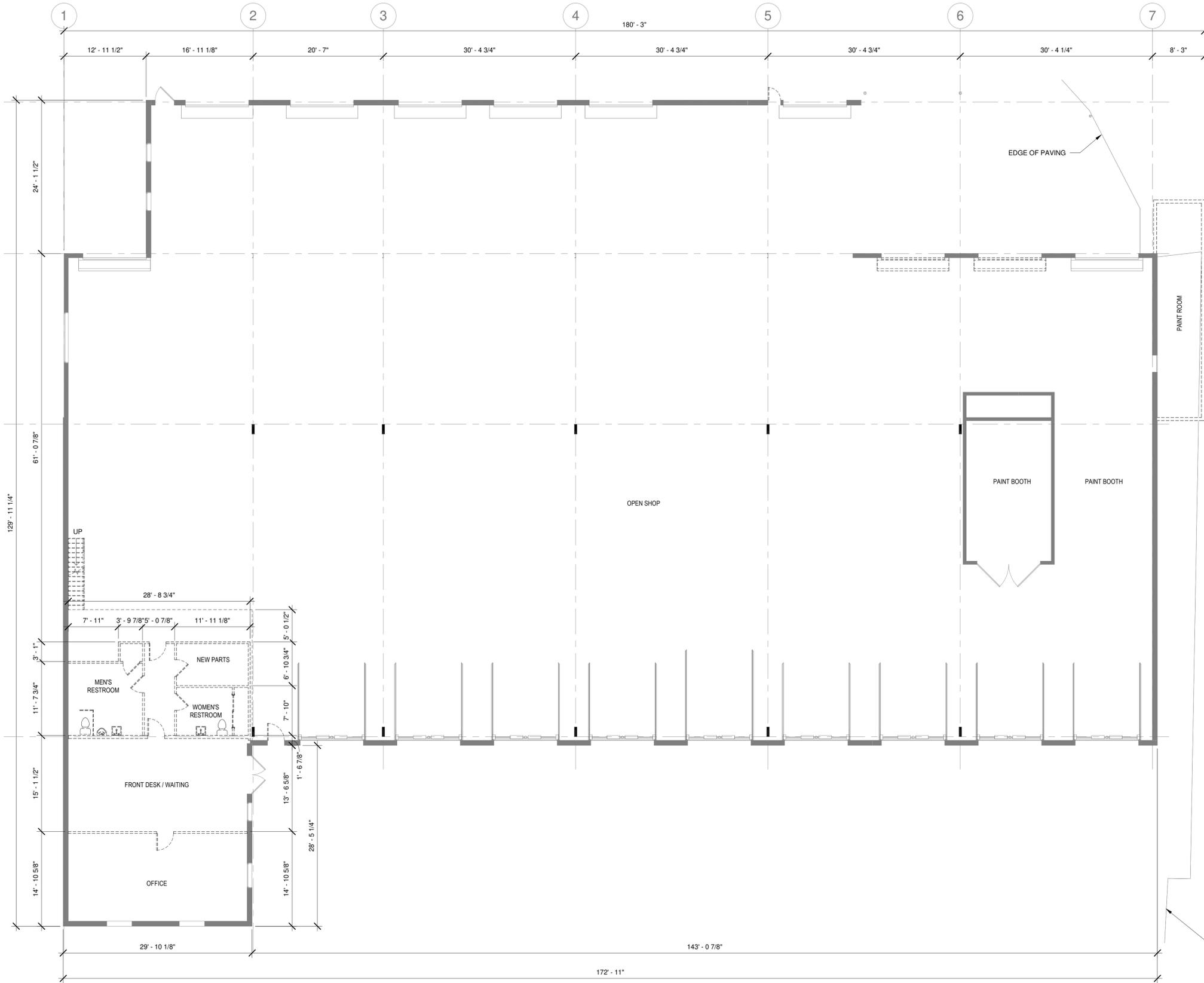
No.	Description	Date

DEMOLITION - FLOOR PLANS

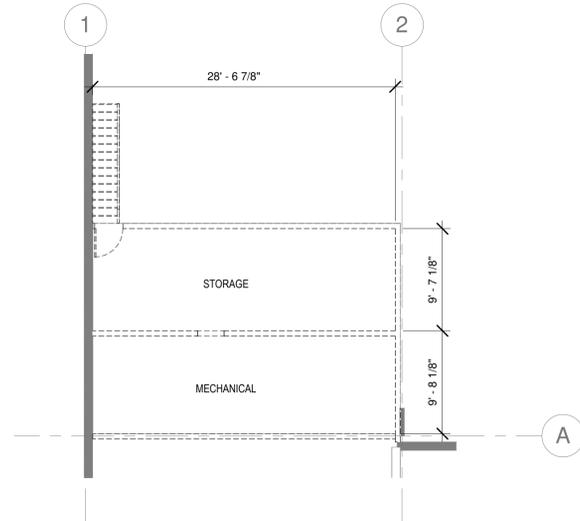
SHEET NAME:

A102

SHEET NUMBER



01 FLOOR PLAN - LEVEL 1 - DEMOLITION
1/8" = 1'-0"



02 FLOOR PLAN - LEVEL 2 - DEMOLITION
1/8" = 1'-0"



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ARCHITECT'S SEAL:



AUTO BODY SHOP RENOVATION - BLDG 100

802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
DATE: 09/08/2023

REVISION SCHEDULE:

No. Description Date

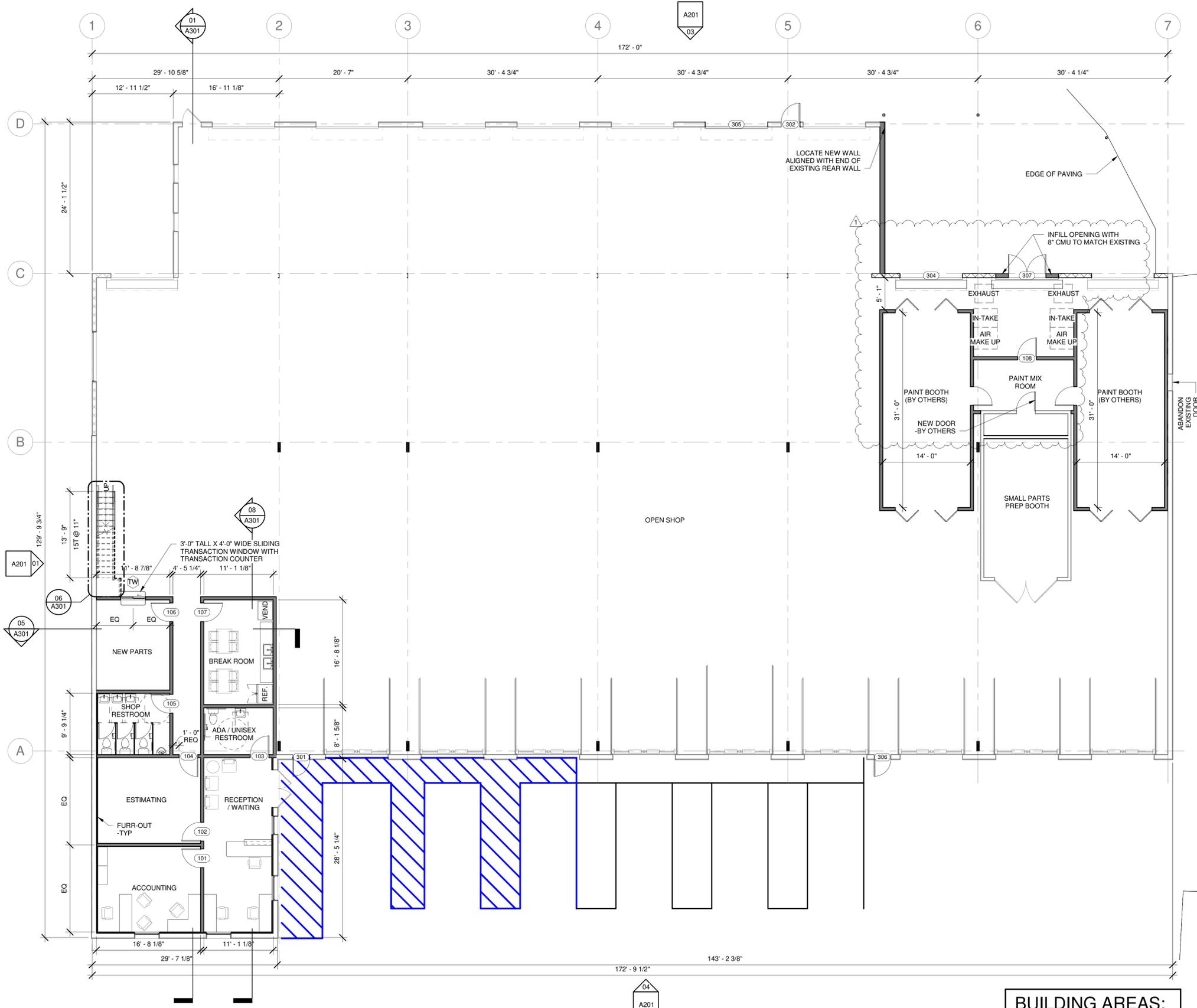
1 REVIEW COMMENTS 1 11/10/2023

NEW - FLOOR PLANS

SHEET NAME:

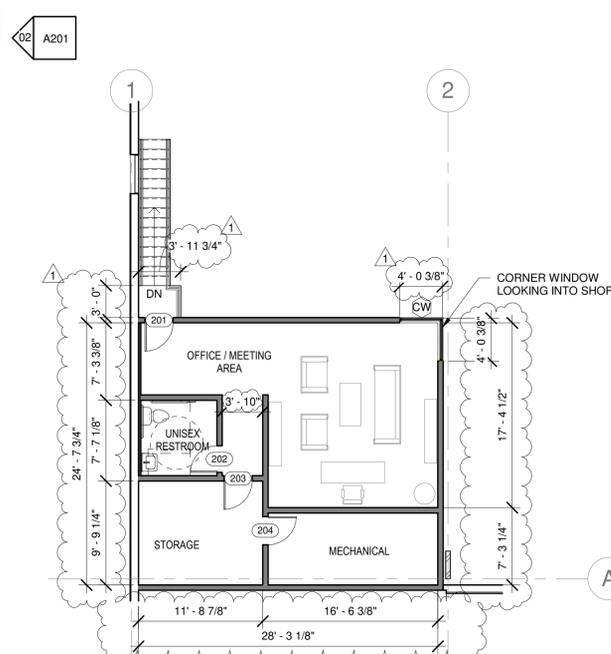
A103

SHEET NUMBER



01 FLOOR PLAN - LEVEL 1 - NEW
1/8" = 1'-0"

BUILDING AREAS:	
FIRST FLOOR	17,500 GSF
SECOND FLOOR	750 GSF



02 FLOOR PLAN - LEVEL 2 - NEW
1/8" = 1'-0"



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RCP GENERAL NOTES

1. ALL LIGHTING TO BE LED U.N.O.
1. ALL LIGHTING TO BE EVENLY SPACED / ALIGNED WITH FIXTURES BELOW U.N.O.
2. SEE MECHANICAL DRAWINGS FOR HVAC SUPPLY & RETURN GRILLES
3. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICS & LEGENDS

AUTO BODY SHOP RENOVATION - BLDG 100
802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

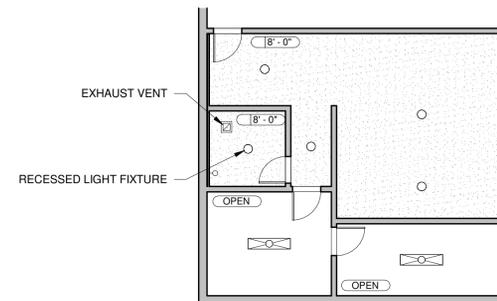
ISSUE: FOR CONSTRUCTION
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REVISION SCHEDULE:		
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

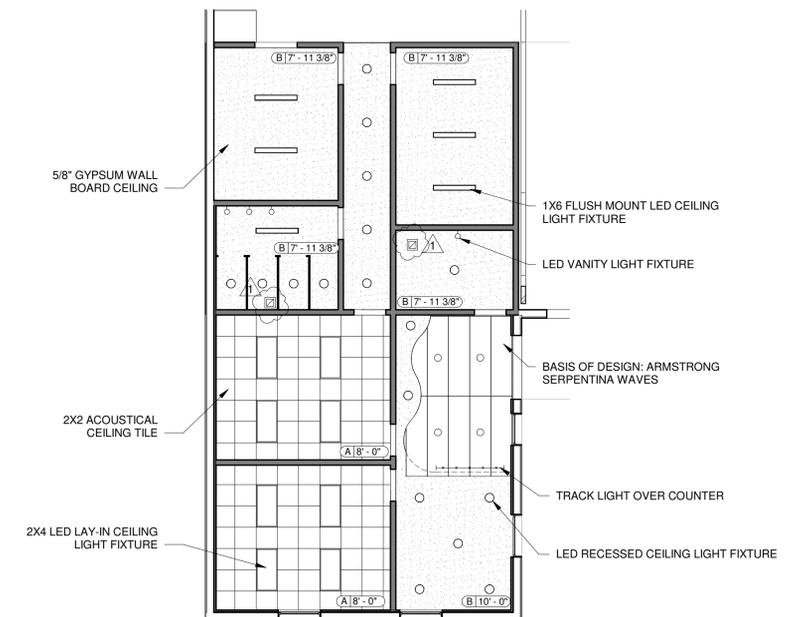
NEW REFLECTED CEILING PLANS
SHEET NAME:

A111

SHEET NUMBER



02 REFLECTED CEILING PLAN - LEVEL 2
1/8" = 1'-0"



01 REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"



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REVISION SCHEDULE:

No.	Description	Date

ROOF PLAN

SHEET NAME:

A121

SHEET NUMBER



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

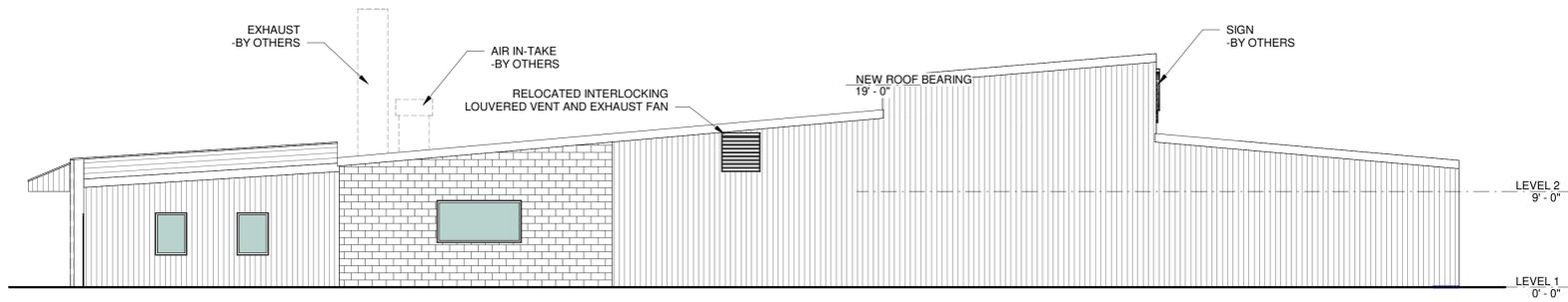


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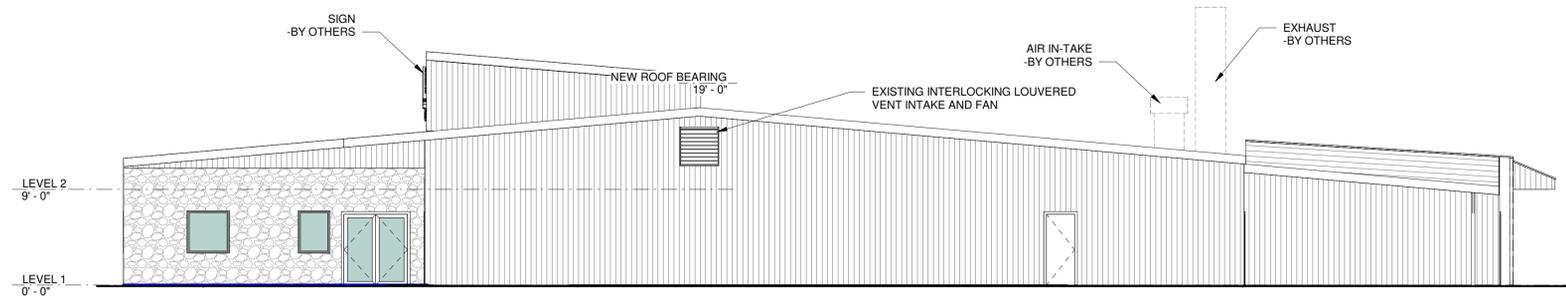
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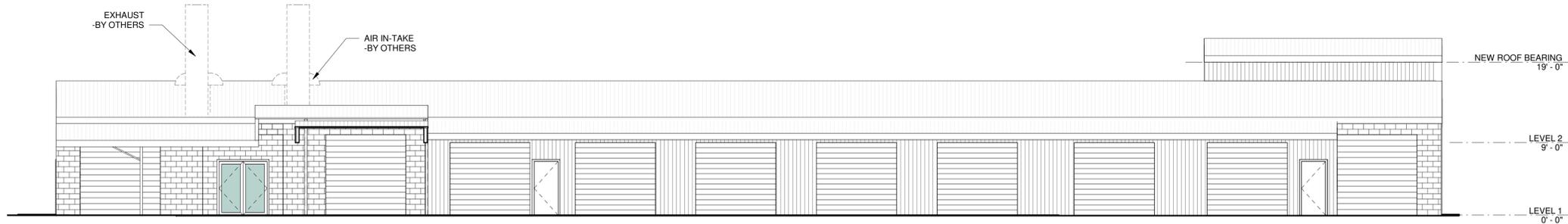
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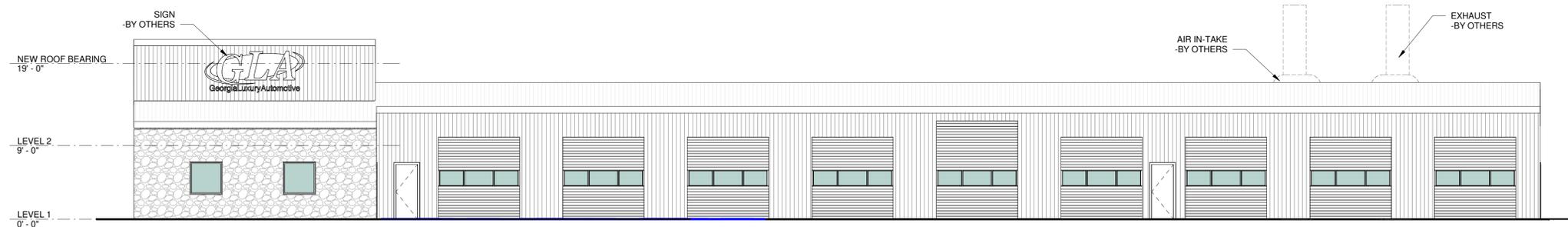
01 LEFT SIDE ELEVATION
1/8" = 1'-0"



02 RIGHT SIDE ELEVATION
1/8" = 1'-0"



03 REAR ELEVATION
1/8" = 1'-0"



04 FRONT ELEVATION
1/8" = 1'-0"

AUTO BODY SHOP RENOVATION - BLDG 100
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No.	Description	Date

BUILDING ELEVATIONS

SHEET NAME:

A201

SHEET NUMBER

MINIMUM REQUIRED INSULATION VALUES

R-VALUE METHOD		U-VALUE METHOD	
ROOFS	R-19 + R-11 LS	U-0.035	
WALLS		U-0.064	
METAL FRAMED	R-13 + R-7.5 CI	U-0.064	
WOOD FRAMED	R-13 + R-7.5 CI OR R-20	U-0.064	
FLOORS	R-30	U-0.033	

NOTES:
 1. LS = LINEAR SYSTEM
 2. CI = CONTINUOUS INSULATION
 3. CONTRACTOR TO PROVIDE INSULATION IN WALLS, CEILING AND FLOORS WHERE THEY SEPARATE CONDITIONED SPACE FROM THE EXTERIOR OR UNCONDITIONED SPACE IN THE VALUES SHOWN IN THIS CHART



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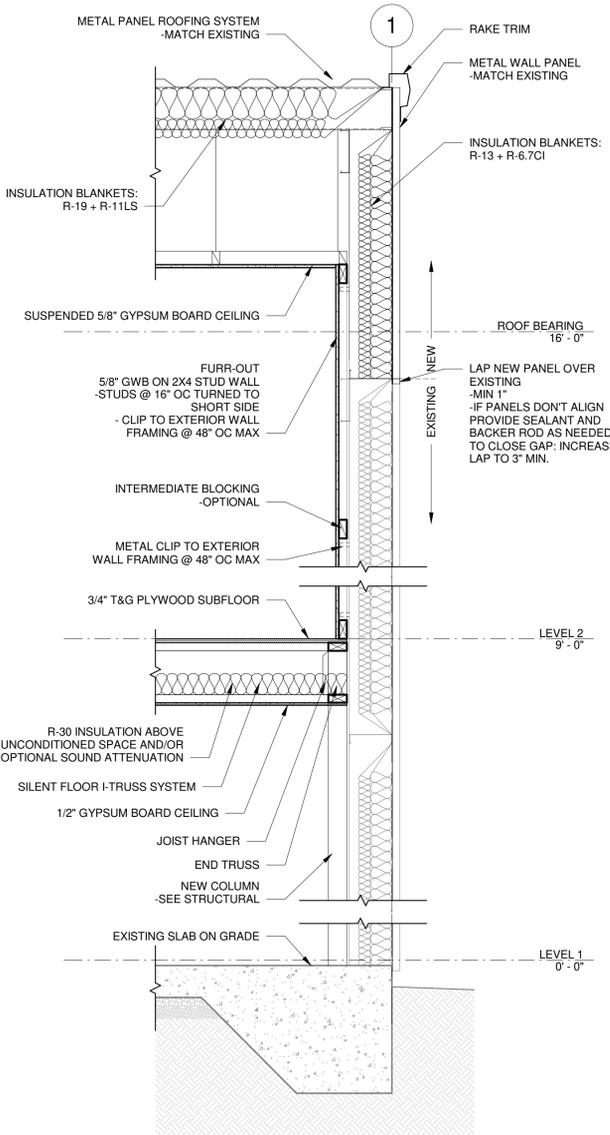
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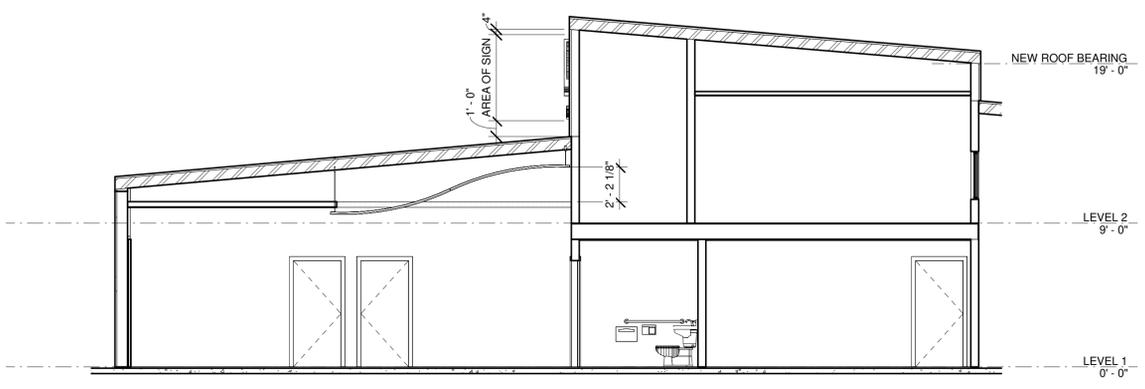
REVISION SCHEDULE:

No.	Description	Date

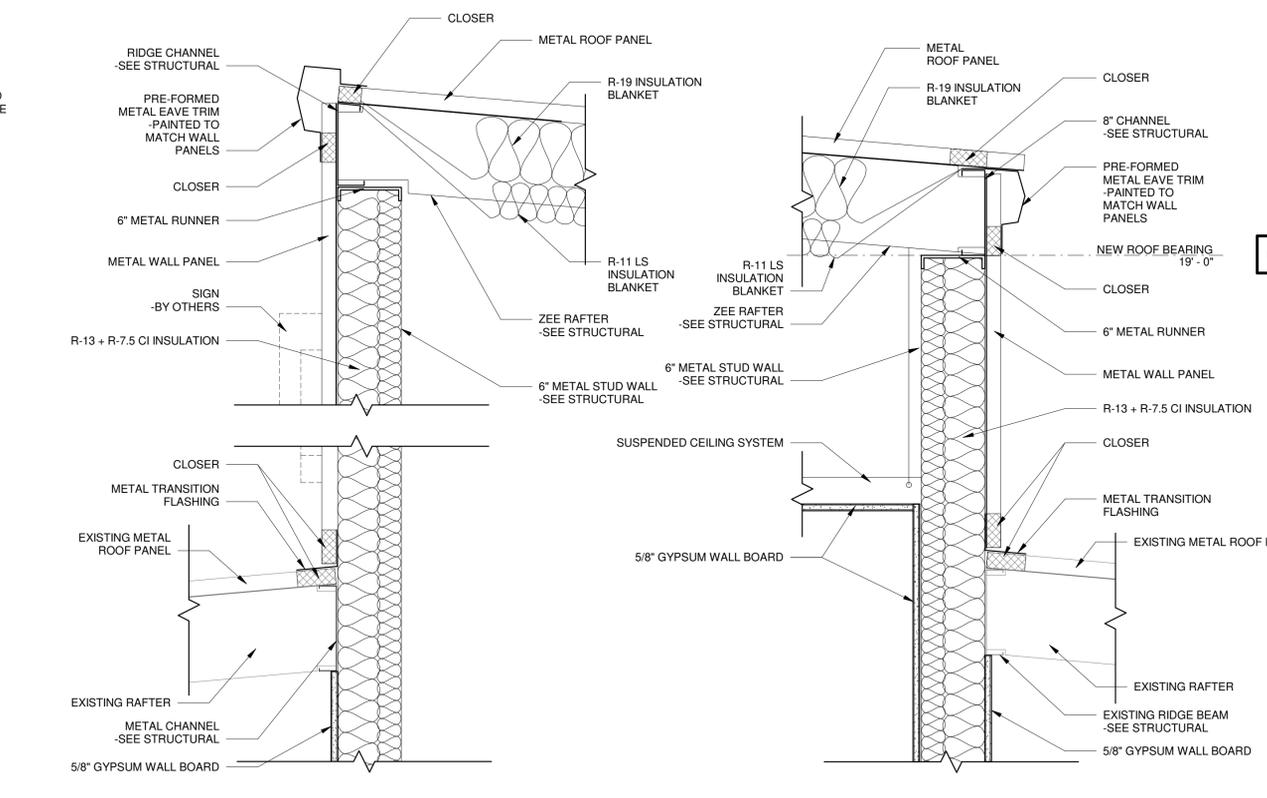
SECTIONS AND STAIR DETAILS
 SHEET NAME:
A301
 SHEET NUMBER:



05 WALL SECTION AT EXISTING EXTERIOR WALL AND ADDITION
 3/4" = 1'-0"

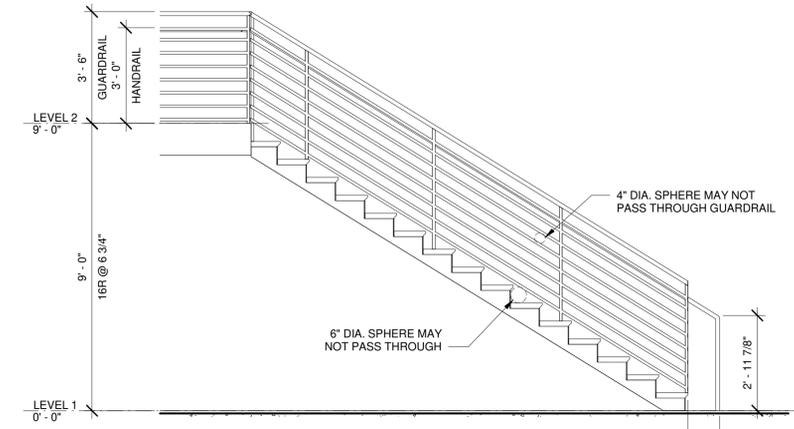


08 SECTION AT OFFICE ADDITION - LOBBY
 3/16" = 1'-0"

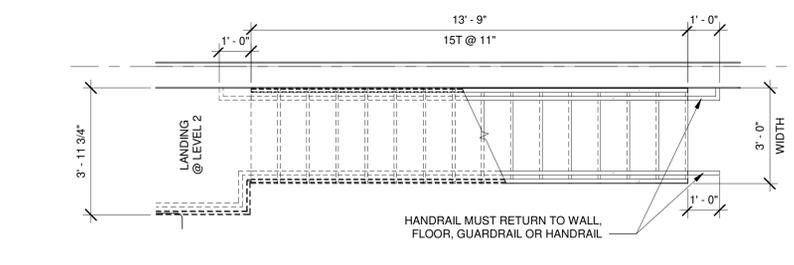


04 SECTION AT OFFICE ADDITION - RIDGE
 1 1/2" = 1'-0"

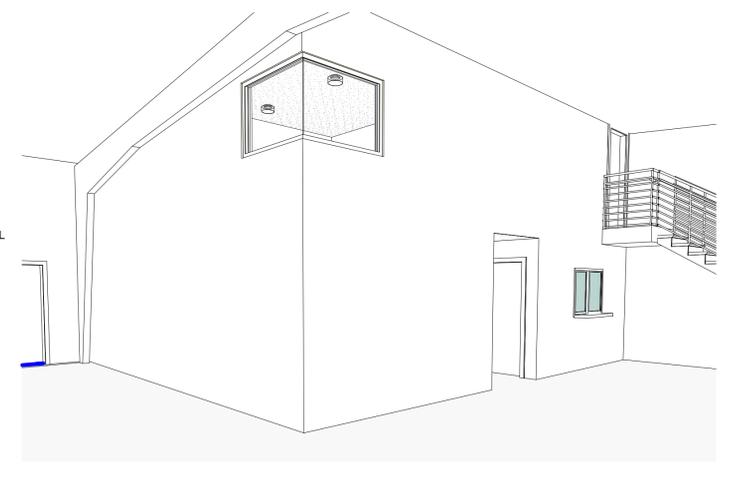
03 SECTION AT OFFICE ADDITION - LOW EAVE
 1 1/2" = 1'-0"



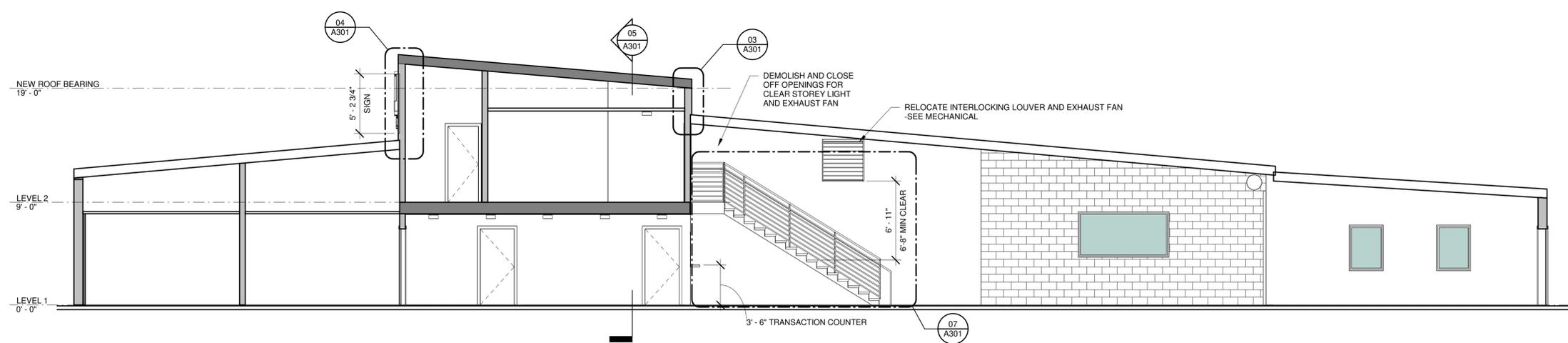
07 STAIR SECTION
 3/8" = 1'-0"



06 STAIR PLAN
 3/8" = 1'-0"



02 PERSPECTIVE - INTERIOR OF OFFICE ADDITION



01 SECTION AT OFFICE ADDITION
 3/16" = 1'-0"



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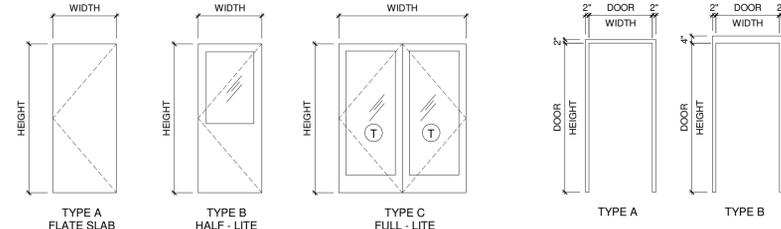
No.	Description	Date

DOOR, WINDOW AND RESTROOM INFORMATION SHEET NAME:

A401

SHEET NUMBER

NUMBER	DOOR PANEL PARAMETERS						DOOR FRAME PARAMETERS			DOOR DETAILS			CLOSER	HARDWARE FUNCTION	COMMENTS
	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL				
101	3' - 0"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	OL		
102	3' - 0"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	OL		
103	3' - 0"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	PL		
104	3' - 0"	6' - 8"	B	HM	PNT	A	HM	PNT	1	1	1	YES	OL		
105	3' - 0"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	PS		
106	3' - 0"	6' - 8"	B	HM	PNT	A	HM	PNT	1	1	1	YES	SL		
107	3' - 0"	6' - 8"	B	HM	PNT	A	HM	PNT	1	1	1	YES	PS		
108	3' - 0"	6' - 8"	A	HM	PNT	A	HM	PNT	1	2	3	YES	PS		
201	2' - 8"	6' - 8"	B	HM	PNT	A	HM	PNT	1	1	1	YES	OL		
202	2' - 6"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	PL		
203	2' - 8"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	SL		
204	2' - 8"	6' - 8"	A	HM	PNT	A	HM	PNT	1	1	1	YES	PS		
301	2' - 8"	6' - 8"	A	HM	PNT	A	HM	PNT	2	2	2	YES	EL		
302	3' - 0"	6' - 8"	A	HM	PNT	A	HM	PNT	2	2	2	YES	EL		
304	10' - 0"	10' - 0"												OVERHEAD COILING DOOR	
305	10' - 0"	9' - 0"												OVERHEAD COILING DOOR	
306	2' - 8"	6' - 8"	A	HM	PNT	A	HM	PNT	2	2	2	YES	EL		
307	6' - 0"	6' - 8"	C	HM	PNT	B	HM	PNT	3	3	3	YES	EL	FULL-LITE DOUBLE DOOR	
Y	10' - 0"	10' - 0"													



DOOR TYPES
NOT TO SCALES

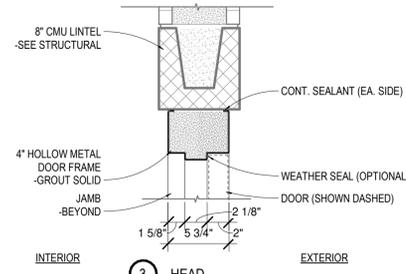
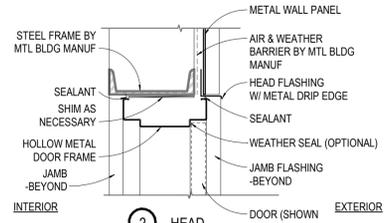
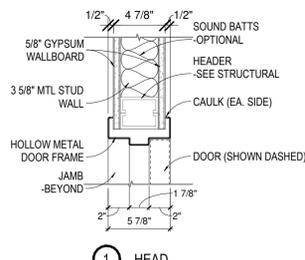
FRAME TYPES
NOT TO SCALES

LOCKSET ABBREVIATIONS

- OL OFFICE LOCK
- EL ENTRY LOCK
- SL STOREROOM LOCK
- PS PASSAGE SET
- PL PRIVACY LOCK

DOOR SCHEDULE COMMENTS:
1. COORDINATE HARDWARE FUNCTION WITH OWNER.
2. COORDINATE DOOR AND FRAME FINISHES WITH OWNER

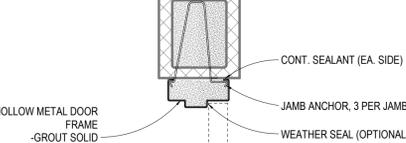
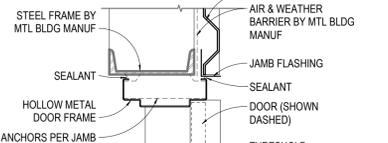
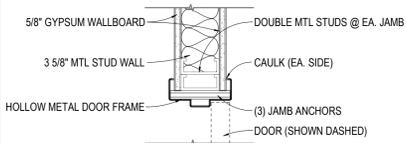
NOTE: PROVIDE WEATHER STRIPPING ON ALL EXTERIOR DOOR FRAMES AT HEAD JAMB AND SILL



1 HEAD

2 HEAD

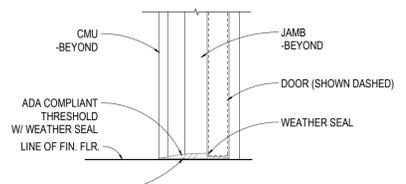
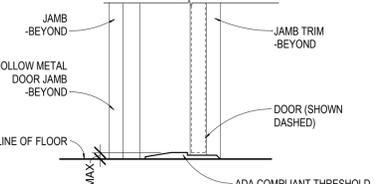
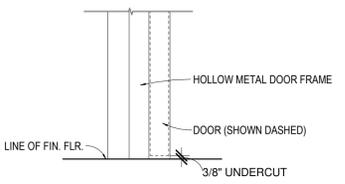
3 HEAD



1 JAMB

2 JAMB

3 JAMB

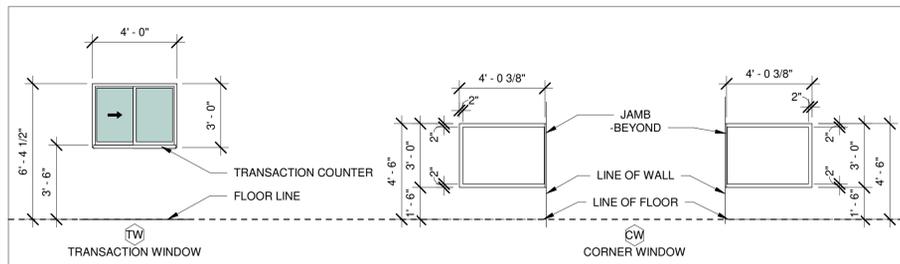


1 SILL

2 SILL

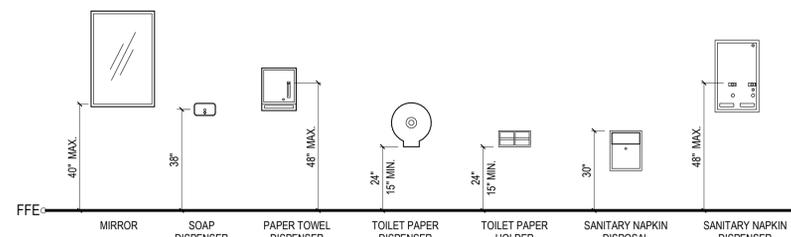
3 SILL

DOOR HEAD, JAMB AND SILL DETAILS
NOT TO SCALES

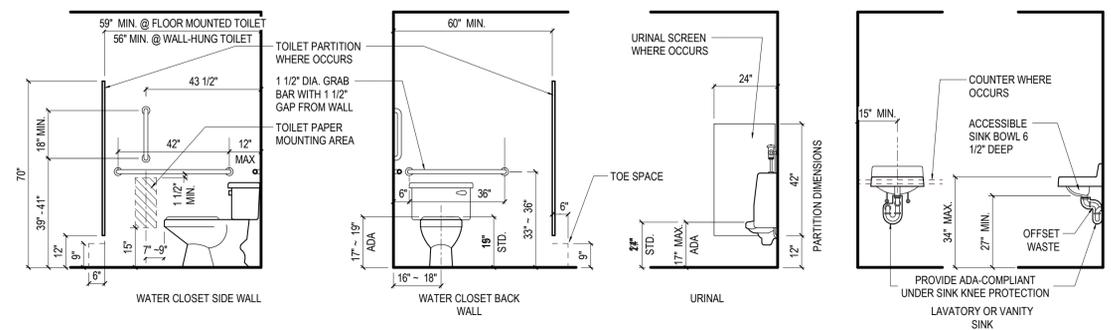


WINDOW TYPES
NOT TO SCALE

TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS



TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



RESTROOM GENERAL NOTES

- RESTROOM FLOOR FINISH MATERIALS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS NOT LESS THAN 4 INCHES.
- WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE.
- ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, PROVIDED ON OR WITHIN WALLS, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

ACCESSORY GENERAL NOTES

- ALL ACCESSORIES SPECIFIED IN DRAWINGS ARE BASIS OF DESIGN. FINAL SELECTION OF ACCESSORIES BY OWNER



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No.	Description	Date

NOTES AND LEGEND
SHEET NAME:
E000
SHEET NUMBER

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MOUNT	VOLTAGE	LAMP QTY	LAMP WATTAGE / TYPE	MANUFACTURER CATALOG NUMBER NOTES
A	6" RECESSED DOWNLIGHT, 2500 LUMENS	RECESSED	120		22W LED 4000K	LSI LIGHTING LA06-LED-25L-27
SA	8" LED LINEAR FIXTURE, 18000 LUMENS, PENDANT MOUNT SO BOTTOM IS EQUAL TO BAF SWITCH BLADES.	PENDANT 16'-0" AFF	120		132W LED 4000K	PHILIPS - DAYBRITE LBX-130L-480-UNW
SA1	4" LED LINEAR FIXTURE, 9000 LUMENS, PENDANT MOUNT SO BOTTOM IS EQUAL TO BAF SWITCH BLADES.	PENDANT 16'-0" AFF	120		66W LED 4000K	PHILIPS - DAYBRITE LBX-90L-480-UNW
SC1	4" LED LINEAR FIXTURE, WET LOCATION, 6100 LUMENS, STAINLESS STEEL LATCHES.	CEILING MOUNTED	120		48W LED 5000K	LSI LIGHTING EG3-4-LED-6L-CA-S-UNW-DIM-50-SL
WD3	2'x4' LED TROFFER, 3000 LUMENS.	RECESSED GRID	120		23.5W LED 4000K	LSI LIGHTING LP60-24-LED-30L-UNW-DIM1-40-U
WH	8" LED STRIP LIGHT, PROVIDE WITH ALL NECESSARY ACCESSORIES FOR CONTINUATION OF LIGHTING.	SURFACE	120		61W LED 5000K	LSI LIGHTING SDL8-LED-80L-FL-UNW-DIM1-50-80
WH1	4" LED STRIP LIGHT, PROVIDE WITH ALL NECESSARY ACCESSORIES FOR CONTINUATION OF LIGHTING.	SURFACE	120		30.5W LED 5000K	LSI LIGHTING SDL4-LED-40L-FL-UNW-DIM1-50-80
WX	EXTERIOR EMERGENCY LUMINAIRE, LOCATE REMOTE INVERTER ABOVE INTERIOR CEILING, INTEGRAL PHOTOCELL FINISH BY ARCHITECT	WALL 9'-0" AFF	120		10W LED	LUMINAIRE AEL12-10-277-DP-X-EMB28R-PC-BZH
WW	WALL MOUNT EXTERIOR LED LIGHTING FIXTURE, FINISH COLOR TO MATCH EXTERIOR WALL FINISH	WALL 16'-0" AFF	120		181W LED 5000K	PHILIPS - GARDCO 161-92L-600-NW-G2-4
XE	CEILING/WALL MOUNTED EMERGENCY BATTERY FIXTURE	CEILING/WALL	120		FURN WITH UNIT	LSI LIGHTING HPM-12-50-2-WH-SD2
X3	SINGLE FACE UNIVERSAL MOUNT LED EXIT WITH BATTERY BACKUP WHITE HOUSING AND RED LETTERS ON WHITE BACKGROUND.	CEILING/WALL	120		FURN WITH UNIT	LSI LIGHTING EX-R-U-**-WB-WH-SD2-UE
X4	DUAL FACE UNIVERSAL MOUNT LED EXIT WITH BATTERY BACKUP WHITE HOUSING AND RED LETTERS ON WHITE BACKGROUND.	CEILING/WALL	120		FURN WITH UNIT	LSI LIGHTING EX-R-U-**-WB-WH-SD2-UE
XE1	CEILING/WALL MOUNTED EMERGENCY BATTERY FIXTURE	CEILING/WALL	120		FURN WITH UNIT	CHLORIDE VTB

GENERAL ELECTRICAL NOTES:

- FOR EXACT LOCATION OF EQUIPMENT MOUNTED IN SUSPENDED CEILINGS, SUCH AS LIGHTING FIXTURES, AND SMOKE DETECTORS, SEE ARCHITECTURAL REFLECTED CEILING PLANS. ARCHITECTURAL REFLECTED PLAN SHALL GOVERN FINAL LOCATION.
- PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL ELEVATION TO AVOID CONFLICTS WITH CASEWORK, COUNTER TOPS, DOOR SWINGS, ETC. WHERE CONFLICTS OCCURS, CONTRACTOR SHALL CONTACT THE ARCHITECT IN WRITING FOR RESOLUTION.
- ALL MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE OUTLET BOX UNLESS OTHERWISE NOTED.
- FOR EXACT LOCATION OF ALL EXTERIOR LIGHTING FIXTURES MOUNTED ON EXTERIOR OF BUILDING, ARCHITECTURAL ELEVATIONS SHALL GOVERN
- PRIOR TO ROUGH-IN FOR ALL LIGHTING SWITCHES, VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL PLANS.
- THE CONTRACTOR SHALL USE CARE WHEN CUTTING OPENINGS FOR OUTLET BOXES IN CMU WALLS. OUTLET BOXES SHALL BE INSTALLED IN CMU WALLS SECURELY WITH EPOXY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING OUTLET BOX INSTALLATION WITH WALL FINISH (GYPSUM FURRING, TILE, ETC). THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY EXTENSION RINGS NECESSARY TO ACCOMMODATE WALL FINISHES.
- ALIGN VERTICALLY AND HORIZONTALLY ALL LIGHT SWITCHES, THERMOSTATS, FIRE ALARM PULL STATIONS, ETC. ALL THESE ITEMS SHALL BE CLUSTERED WHERE POSSIBLE. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
- COORDINATE MOUNTING OF ALL EXTERIOR DISCONNECT WITH ARCHITECTURAL ELEVATIONS. IF NOT INDICATED ON ARCHITECTURAL ELEVATIONS, REQUEST ELEVATIONS OF DISCONNECT SWITCHES FROM ARCHITECT IN WRITING PRIOR TO ROUGH-IN.
- ALL CONDUITS FOR LOW VOLTAGE OUTLETS SHALL BE DEDICATED TO A SINGLE BOX. NO DAISY CHAINING OR SHARING OF CONDUITS BETWEEN LOW VOLTAGE OUTLET BOXES IS PERMITTED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- PROVIDE FIELD IDENTIFICATION FOR PANELBOARDS AND SWITCHBOARDS (IF APPLICABLE) PER NEC 408.4. ADDITIONALLY, EACH RECEPTACLE AND DISCONNECT SHALL HAVE A PRINTED LABEL WITH SPECIFIC PANEL AND CIRCUIT NUMBER.
- PROVIDE PERMANENT NAMEPLATE LABEL FOR PANELBOARDS IDENTIFYING COLOR CODING FOR BRANCH CIRCUITS, IN ACCORDANCE WITH NEC 210.5(C)(1).
- PER NEC 408.6, AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED MUST BE FIELD MARKED ON THE ENCLOSURE AT THE POINT OF THE SUPPLY. THE MARKING MUST BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED PER 110.24.

GENERAL ELECTRICAL DEMOLITION NOTES

- ELECTRICAL CONTRACTOR SHALL REMOVE DEVICES ON WALLS TO BE REMOVED AND AS DIRECTED BY ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING, CONDUIT, SURFACE RACEWAY, ETC. FOR DEVICES/LOADS BEING REMOVED. ITEMS REMOVED SHALL BECOME PROPERTY OF THE ELECTRICAL CONTRACTOR (UON) AND SHALL BE REMOVED FROM THE SITE. ITEMS REMOVED SHALL NOT BE STORED AT THE SITE. UNDER NO CONDITIONS SHALL ITEMS REMOVED BE USED IN THE NEW CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
- IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROTECT AND RETAIN POWER TO ALL EXISTING ACTIVE EQUIPMENT TO REMAIN. THIS INCLUDES RE-ROUTING OF EXISTING CIRCUITING EFFECTED BY DEMOLITION.
- ALL REMOVED COMPUTER EQUIPMENT SHALL BE TURNED OVER TO OWNER UNLESS DIRECTED TO DO OTHERWISE.
- SEE MECHANICAL DRAWING FOR HEATERS, EXHAUST FANS, ETC., WHICH MUST BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REMOVE ALL STARTERS, DISCONNECT SWITCHES AND ASSOCIATED CONDUIT AND WIRING.
- REMOVE ALL CONDUIT, WIRE, BOXES AND FASTENING DEVICES AS REQUIRED TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
- CONDUITS MAY BE ABANDONED IN FLOOR AND WALLS ONLY. ELECTRICAL CONTRACTOR SHALL REMOVE ALL WIRING FROM ABANDONED CONDUITS, DISCONNECT FROM ALL POWER SOURCES AND PROVIDE BLANK PLATES ON ALL ABANDONED OUTLETS. CUT OFF ABANDONED CONDUITS 1" BELOW FINISHED FLOOR AND GROUT FLUSH. ABANDONED CONDUIT SHALL BE CAPPED AT BOTH ENDS.
- ELECTRICAL CONTRACTOR SHALL TRACE ALL CIRCUITS IN EXISTING PANELS TO REMAIN AFFECTED BY DEMOLITION. TURN OFF AND TAG ALL UNUSED CIRCUIT BREAKERS AS AND LABEL AS "SPARE" AND TIGHTEN ALL CONNECTIONS. PROVIDE NEW TYPED DIRECTORY WITH DATE, PROTECTED BY PLASTIC AND PLACE IN COVER OF PANELS CONSISTENT WITH NEW CONSTRUCTION.
- ANY ELECTRICAL OUTAGES REQUIRED BY THE WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE AND CONFIRMED IN WRITING. ANY OUTAGE SHALL NOT BE SCHEDULED DURING NORMAL BUSINESS HOURS OR DURING FACILITY FUNCTIONS AND ALL COSTS FOR OVERTIME SHALL BE INCLUDED IN THE BID.
- EXISTING LIGHTING FIXTURE BALLASTS AND FLUORESCENT LAMPS MAY CONTAIN PCB'S. DISPOSE OF BALLASTS AND LAMPS IN ACCORDANCE WITH EPA.
- HOLES LEFT BY REMOVAL OF ELECTRICAL DEVICES, PANELS, ETC. SHALL BE PATCHED IN EXISTING WALLS TO REMAIN. REFER TO ARCHITECTURAL DRAWINGS.

ABBREVIATIONS

A	- AMPERES	MCB	- MAIN CIRCUIT BREAKER
A.F.F.	- ABOVE FINISHED FLOOR	MLO	- MAIN LUG ONLY
A.F.G.	- ABOVE FINISHED GRADE	NTS	- NOT TO SCALE
BFG	- BELOW FINISHED GRADE	P	- POLE
C	- CONDUIT	PNL	- PANEL
ETR	- EXISTING TO REMAIN	SN	- SOLID NEUTRAL
F	- FUSE	U.O.N.	- UNLESS OTHERWISE NOTED
GFI	- GROUND FAULT CIRCUIT INTERRUPTING	V	- VOLTS
G	- GROUND	W	- WIRE
KVA	- KILO VOLT AMP	WP	- WEATHERPROOF/GFI
KW	- KILOWATT		

UTILITY NOTES:

- PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED.

FIRE PROOFING NOTES:

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE STOPPING AT ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE CONDUIT PENETRATIONS OCCUR.

DEVICE PLATE NOTE:
ALL COVERPLATES SHALL BE NYLON WITH FINISH PER ARCHITECT. ALL DEVICES (SWITCHES, RECEPTACLES, ETC) SHALL BE FINISH BY ARCHITECT (UON). COORDINATE WITH ARCHITECTURAL PLANS. CONTRACTOR TO PROVIDE JUMBO PLATES FOR ALL DEVICES ON CMU AND CONCRETE WALLS.

LIGHTING CONTROL COMMISSIONING:
COMMISSION ALL AUTOMATIC LIGHTING CONTROLS IN ACCORDANCE WITH THE 2015 IECC ENERGY CODE. COORDINATE TESTING WITH LIGHTING CONTROLS SUPPLIER.

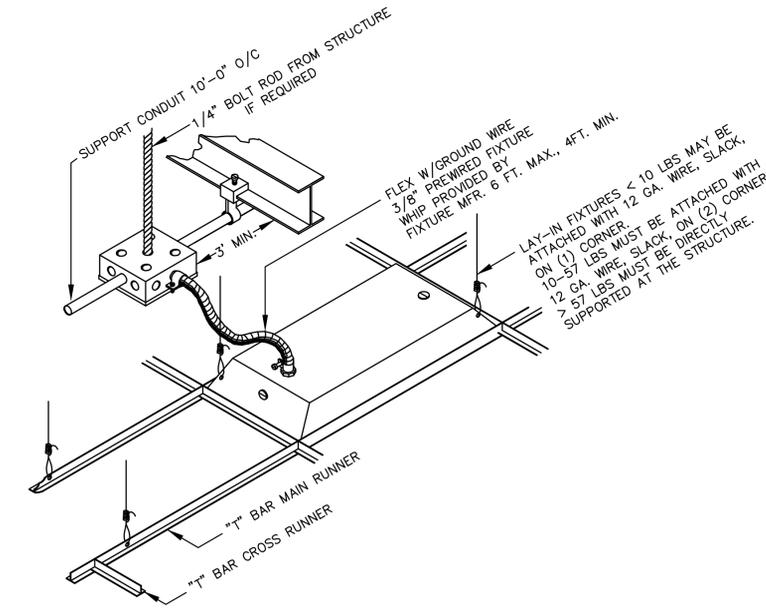
UTILITY COORDINATION
CONTRACTOR SHALL ESTABLISH COMMUNICATION WITH THE DESIGNATED ELECTRICAL UTILITY PROVIDER AND COORDINATE ALL UTILITY METERING AND SERVICE REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK AND ELECTRICAL GEAR PROCUREMENT. CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT AT THE TRANSFORMER SUPPLIED BY THE UTILITY AND INCLUDE THIS INFORMATION WITH THE ELECTRICAL GEAR SUBMITTAL FOR ENGINEERING EVALUATION. WHERE UTILITY METERING AND SERVICE REQUIREMENTS DIFFER FROM THOSE SHOWN WITHIN PLANS, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO ROUGH IN OR ORDERING ELECTRICAL GEAR.

ELECTRICAL LEGEND

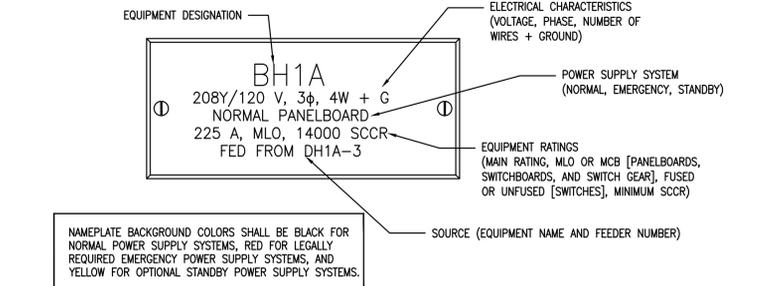
- LIGHTING**
- [Symbol] LIGHTING FIXTURE
 - [Symbol] EMERGENCY LIGHTING FIXTURE AND/OR NIGHTLIGHT AS INDICATED
 - [Symbol] DOWNLIGHT.
 - [Symbol] EXIT LIGHTING FIXTURE, FACE PLATES (DARKENED) AND DIRECTIONAL ARROWS AS INDICATED. PROVIDE WITH BATTERY BACKUP, UNO. CONNECT AHEAD OF LOCAL SWITCH.
 - S SINGLE POLE SWITCH, 20A, 120/277 VOLT, 46" A.F.F.
 - S₃ THREE-WAY SWITCH, 20A, 120/277 VOLT, 46" A.F.F.
 - S₄ FOUR-WAY SWITCH, 20A, 120/277 VOLT, 46" A.F.F.
 - S_D DIMMER SWITCH, 46" A.F.F. PROVIDE WATTAGE AS REQUIRED. PROVIDE DIMMER SWITCH COMPATIBLE WITH LED LIGHT FIXTURE. PROVIDE WIRING AS REQUIRED FROM DIMMER TO LIGHT FIXTURE. COORDINATE WITH FIXTURE MANUFACTURER.
 - S_{P3} THREE-WAY SWITCH WITH PILOT LIGHT, 20A, 120/277 VOLT, 46" A.F.F.
 - [Symbol] CEILING MOUNTED OCCUPANCY SENSOR, BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.
 - SoS WALL MOUNTED SWITCH, 20A, 120/277V, 46" AFF WITH INTEGRAL OCCUPANCY SENSOR. BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.
 - SSoS (2) WALL MOUNTED SWITCHES, 20A, 120/277V, 46" AFF WITH INTEGRAL OCCUPANCY SENSOR. BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.
 - SDoS WALL MOUNTED DIMMER SWITCH, 20A, 120/277V, 46" AFF WITH INTEGRAL OCCUPANCY SENSOR, BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.
 - S_LV LOW VOLTAGE OVERRIDE SWITCH FOR LIGHTING CONTROLS, 46" A.F.F. PROVIDE LOW VOLTAGE WIRING AS REQUIRED. COORDINATE WITH LIGHTING CONTROL MANUFACTURER.
- POWER**
- [Symbol] DUPLEX GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N.
 - [Symbol] (2) DUPLEX GROUNDING TYPE RECEPTACLES IN COMMON BOX, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N
 - [Symbol] DUPLEX ISOLATED GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N. RECEPTACLE BODY SHALL BE ORANGE.
 - [Symbol] DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N.
 - [Symbol] WEATHER RESISTANT RATED, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, MOUNT HORIZONTALLY 18" A.F.F., U.O.N., IN CAST OUTLET BOX WITH GASKET DEVICE COVER.
 - [Symbol] DUPLEX GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R. MOUNT HORIZONTALLY 6" A.F.F. FOR WATER COOLER.
 - [Symbol] SPECIAL RECEPTACLE, AMPERAGE, AND VOLTAGE AS INDICATED, 18" AFF, UON.
 - [Symbol] PROVIDE COMBINATION USB CHARGER AND TAMPER RESISTANT RECEPTACLE. LEVITON DEVICE #T6532. COORDINATE LOCATIONS WITH ARCHITECT.
 - [Symbol] RECEPTACLE/TELEPHONE/DATA OUTLETS, FLUSH MOUNT IN FLUSH MOUNTED FLOOR BOX WITH RUBBER OR THERMOPLASTIC CARPET COVER PLATE. PROVIDE NUMBER AND TYPE OF DEVICES PER PLANS. COORDINATE DEPTH OF FLOOR BOX WITH SLAB DEPTH. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE 3/4" CONDUIT WITH CONDUCTORS INDICATED FOR SERVICE TO RECEPTACLE OUTLET. PROVIDE (1) 1-1/4" CONDUIT WITH PULLWIRE FROM EACH SPECIAL SYSTEMS OUTLET TO ABOVE NEAREST ACCESSIBLE CEILING FOR SPECIAL SYSTEM WIRING BY OTHERS.
 - [Symbol] PANELBOARD
 - A-1 ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE ONE #12 PHASE CONDUCTOR, ONE #12 NEUTRAL CONDUCTOR, AND ONE #12 GROUNDING CONDUCTOR (PLUS ONE INSULATED, ISOLATED GROUNDING CONDUCTOR WHEN SERVING ISOLATED GROUND TYPE DEVICES) IN 1/2" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS SHALL BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. MULTIPLE SINGLE PHASE CONDUCTORS SERVING ISOLATED GROUND RECEPTACLES SHALL NOT SHARE COMMON NEUTRALS. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED AS ALLOWED BY THE NEC. BRANCH CIRCUIT CONDUCTORS IN CONDUIT SHALL BE RUN CONCEALED IN WALLS AND/OR ABOVE CEILINGS, IN/OR BELOW FLOORS, EXCEPT IN EXPOSED CONSTRUCTION AREAS. FLUORESCENT LIGHTING CIRCUITS SERVING SWITCHED FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL CONTAIN ONE UNSWITCHED CONDUCTOR. FLUORESCENT DIMMING CIRCUITS SERVING DIMMING BALLASTS SHALL BE PROVIDED WITH WIRING AS REQUIRED BY BALLAST MANUFACTURER. MULTIPLE PHASE LIGHTING CIRCUITS SERVING DIMMED LOADS SHALL NOT SHARE COMMON NEUTRALS.
 - [Symbol] JUNCTION BOX.
 - [Symbol] DISCONNECT SWITCH, 240 OR 600 VOLTS AS REQUIRED. AMPS, POLES AND FUSING AS NOTED, NEMA 1, U.O.N.
 - [Symbol] MOTOR RATED SWITCH. MOUNT WITHIN SIGHT OF EQUIPMENT.
 - [Symbol] MOTOR CONNECTION, WITH INTEGRAL DISCONNECTING MEANS.
 - [Symbol] STARTER
 - [Symbol] KEYNOTE.

SPECIAL SYSTEMS

- [Symbol] TELEPHONE/DATA OUTLET 18" A.F.F., U.O.N. DOUBLE GANG BOX WITH DEVICE PLATE. PROVIDE 1" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH SINGLE GANG ADAPTER.
- [Symbol] TELEPHONE OUTLET 18" A.F.F., U.O.N. DOUBLE GANG BOX WITH DEVICE PLATE. PROVIDE 3/4" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH SINGLE GANG ADAPTER.
- [Symbol] TELEVISION OUTLET 18" A.F.F., U.O.N. SINGLE GANG BOX WITH DEVICE PLATE. PROVIDE 3/4" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING.
- [Symbol] TELEPHONE/TELEVISION BACKBOARD, 4' X 4' X 3/4" THICK EXTERIOR GRADE PLYWOOD. MOUNT VERTICALLY WITH BOTTOM OF PLYWOOD 6" A.F.F., U.O.N.



1 LAY-IN FIXTURE DETAIL
E000 N.T.S.



2 PANEL DETAIL LABEL
E000 N.T.S.

WIRE SIZE CHART:

< 100 FT	#12 AWG (CU)
100-160 FT	#10 AWG (CU)
160-250 FT	#8 AWG (CU)



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ARCHITECT INFORMATION:
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 Registration: RA012322

ENGINEER'S SEAL:



DEMAND LOAD CALCS					
LIGHTING	11.32	KVA	X	125 % =	14.2 KVA
(CONTINUOUS LOADS)					
RECEPTACLE TOTAL	19.90	KVA			
19F	19.9	KVA	X	100 % =	19.9 KVA
REMAN	9.90	KVA	X	50 % =	4.95 KVA
MOTORS	60.16	KVA	X	100 % =	60.2 KVA
A/C	7.67	KVA	X	100 % =	7.7 KVA
HEATING	17.50	KVA	X	100 % =	17.5 KVA
EQUIPMENT	168.90	KVA	X	100 % =	168.9 KVA
WATER HEATERS	4.50	KVA	X	125 % =	5.6 KVA
(CONTINUOUS LOADS)					
DEDICATED CIRCUITS	0.00	KVA	X	100 % =	0.0 KVA
(NON-CONTINUOUS LOADS)					
TOTAL					294.1 KVA

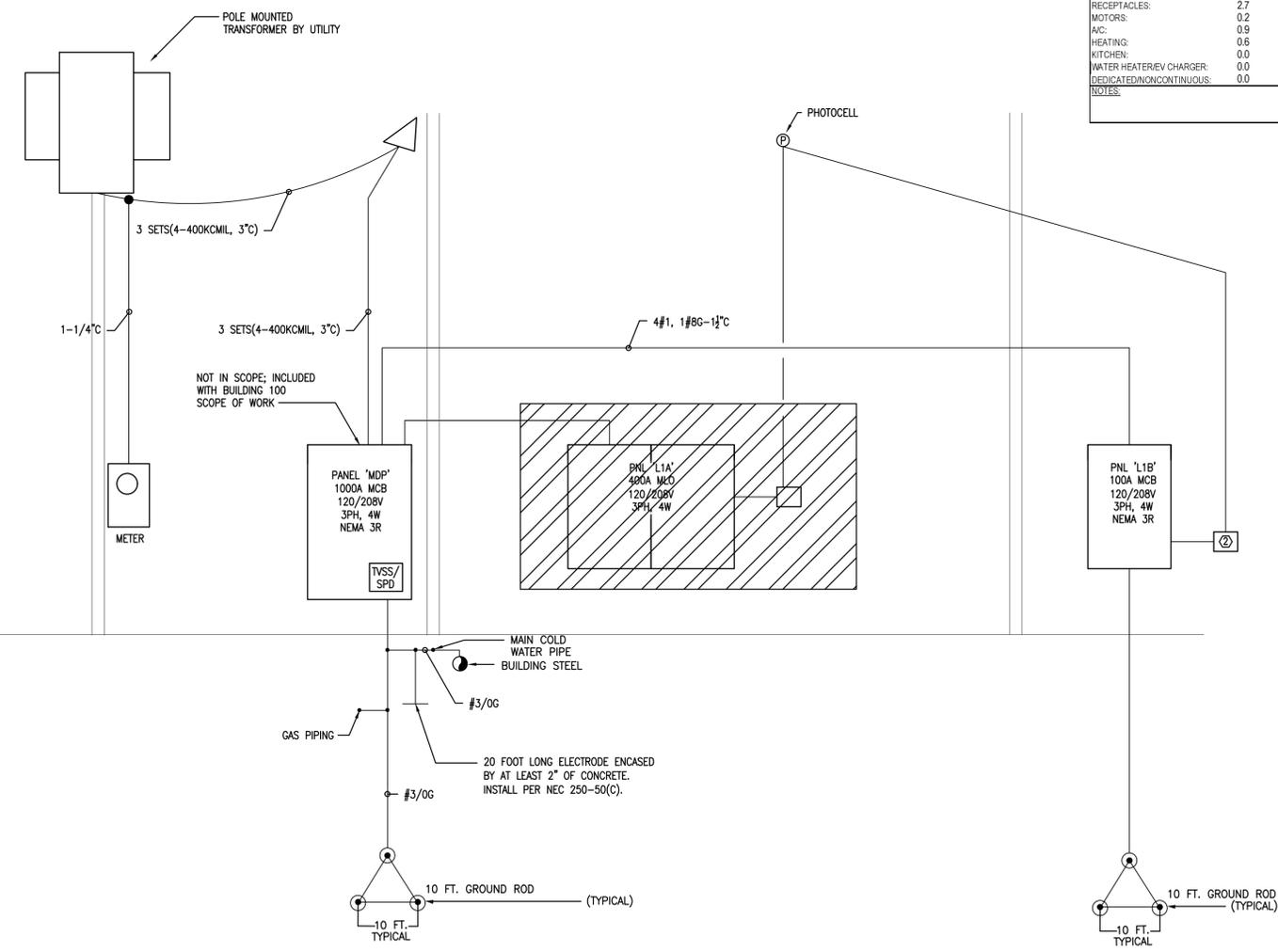
NOT IN SCOPE

DISTRIBUTION PANELBOARD SCHEDULE MDP																					
MAIN:		VOLTAGE: 208/120 3 PHASE 4 WIRE										AIC: 65,000		NEMA 3R		MOUNTING SURFACE					
CKT #	DESCRIPTION	LOAD (KVA)										LOAD (KVA)									
		LTG	REC	MTR	AC	HTG	EQ	WH	NON	BKR	TRIP	TRIP	BKR	TRIP	TRIP	BKR	TRIP	TRIP	BKR	TRIP	TRIP
1	LPA	2.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	LPA	2.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	LTB	0.0	1.8	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	SPRAY BOOTH	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	SPRAY BOOTH	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	SPACE ONLY																				
7	SPACE ONLY																				
8	SPACE ONLY																				
9	SPACE ONLY																				
10	SPACE ONLY																				
11	SPACE ONLY																				
12	SPACE ONLY																				

LIGHTING:	11.3 (KVA)	CONNECTED LOAD (KVA):	289.1	DEMAND PER PHASE (AMPS)	637.4 A
RECEPTACLES:	19.1	DEMAND LOAD (KVA):	204.1		679.6 B
MOTORS:	60.2				632.6 C
A/C:	7.7				
HEATING:	17.5	CONNECTED LOAD (AMPS):	802.4	CONNECTED PER PHASE (AMPS)	790.2 A
KITCHEN:	168.9	DEMAND LOAD (AMPS):	566.4		841.6 B
WATER HEATER/EV CHARGER:	4.5				777.5 C
DEDICATED/NONCONTINUOUS:	0.0	AMPACITY REQUIRED:	566.4		

PANELBOARD SCHEDULE L1B																					
MAIN:		VOLTAGE: 208/120 3 PHASE 4 WIRE										AIC: 22,000		MOUNTING SURFACE							
CKT #	DESCRIPTION	LOAD (KVA)										LOAD (KVA)									
		LTG	REC	MTR	AC	HTG	EQ	WH	NON	BKR	TRIP	TRIP	BKR	TRIP	TRIP	BKR	TRIP	TRIP	BKR	TRIP	
1	RECEPT	0.7																			
3	RECEPT	0.7																			
5	EXTERIOR LTG	0.2																			
7	SPARE																				
9	SPARE																				
11	SPARE																				
13	SPARE																				
15	SPARE																				
17	RECEPT	0.4																			
19	SUN-A	0.5																			
21	SPARE																				
23	SPARE																				

LIGHTING:	0.2 (KVA)	CONNECTED LOAD (KVA):	4.5	DEMAND PER PHASE (AMPS)	20.4 A
RECEPTACLES:	2.7	DEMAND LOAD (KVA):	4.6		10.2 B
MOTORS:	0.2				5.1 C
A/C:	0.9				
HEATING:	0.6	CONNECTED LOAD (AMPS):	12.6	CONNECTED PER PHASE (AMPS)	20.4 A
KITCHEN:	0.0	DEMAND LOAD (AMPS):	12.7		10.2 B
WATER HEATER/EV CHARGER:	0.0	PANEL AMPACITY REQUIRED:	12.7		4.7 C
DEDICATED/NONCONTINUOUS:	0.0				



1 RISER DIAGRAM
 E001 N.T.S.

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: 22437 - Body Shop Smyrna Detail Bldg
 Project Type: New Construction

Construction Site: _____ **Owner/Agent:** _____ **Designer/Contractor:** _____

Additional Efficiency Package(s)
 Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Automotive Facility	1815	0.64	1160
		Total Allowed Watts =	1160

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Automotive Facility				
SC1-Other	1	13	48	624
		Total Proposed Watts =	624	

Interior Lighting PASSES: Design 46% 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 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: 22437 - Body Shop Smyrna Detail Bldg Report date: 11/17/23
 Data filename: _____ Page 2 of 8

AUTO BODY SHOP RENOVATION - BLDG 100
 802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
 DATE: 09/08/2023

No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

Riser Diagram & Schedules
 SHEET NAME:
E001
 SHEET NUMBER

REVISION SCHEDULE:		
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023
2	Revision 2	Date 2

ELECTRICAL KEYNOTES

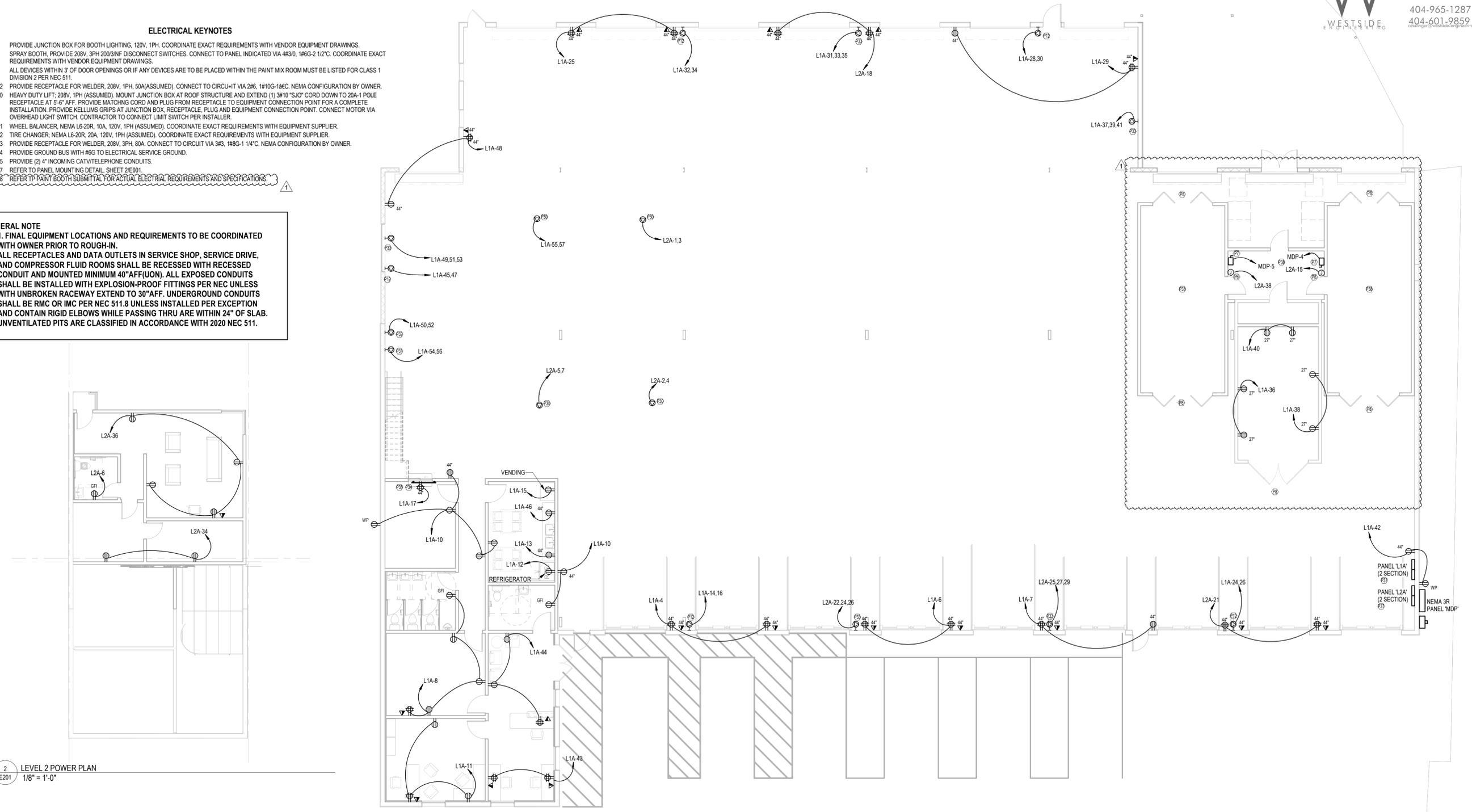
- P6 PROVIDE JUNCTION BOX FOR BOOTH LIGHTING, 120V, 1PH. COORDINATE EXACT REQUIREMENTS WITH VENDOR EQUIPMENT DRAWINGS.
- P7 SPRAY BOOTH, PROVIDE 208V, 3PH 200/3NF DISCONNECT SWITCHES. CONNECT TO PANEL INDICATED VIA 4#30, 1#6G-2 1/2". COORDINATE EXACT REQUIREMENTS WITH VENDOR EQUIPMENT DRAWINGS.
- P8 ALL DEVICES WITHIN 3' OF DOOR OPENINGS OR IF ANY DEVICES ARE TO BE PLACED WITHIN THE PAINT MIX ROOM MUST BE LISTED FOR CLASS 1 DIVISION 2 PER NEC 511.
- P12 PROVIDE RECEPTACLE FOR WELDER, 208V, 1PH, 50A(ASSUMED), CONNECT TO CIRCUIT VIA 2#6, 1#10G-1#6C, NEMA CONFIGURATION BY OWNER.
- P30 HEAVY DUTY LIFT, 208V, 1PH (ASSUMED), MOUNT JUNCTION BOX AT ROOF STRUCTURE AND EXTEND (1) 3#10 "SJO" CORD DOWN TO 20A-1 POLE RECEPTACLE AT 5'-0" AFF. PROVIDE MATCHING CORD AND PLUG FROM RECEPTACLE TO EQUIPMENT CONNECTION POINT FOR A COMPLETE INSTALLATION. PROVIDE KELLUMS GRIPS AT JUNCTION BOX, RECEPTACLE, PLUG AND EQUIPMENT CONNECTION POINT. CONNECT MOTOR VIA OVERHEAD LIGHT SWITCH. CONTRACTOR TO CONNECT LIMIT SWITCH PER INSTALLER.
- P31 WHEEL BALANCER, NEMA L6-20R, 10A, 120V, 1PH (ASSUMED), COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- P32 TIRE CHANGER, NEMA L6-20R, 20A, 120V, 1PH (ASSUMED), COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- P33 PROVIDE RECEPTACLE FOR WELDER, 208V, 3PH, 80A, CONNECT TO CIRCUIT VIA 3#3, 1#8G-1 1/4". NEMA CONFIGURATION BY OWNER.
- P34 PROVIDE GROUND BUS WITH #6G TO ELECTRICAL SERVICE GROUND.
- P35 PROVIDE (2) 4" INCOMING CATV/TELEPHONE CONDUITS.
- P37 REFER TO PANEL MOUNTING DETAIL, SHEET 2/E001
- P38 REFER TO PAINT BOOTH SUBMITTAL FOR ACTUAL ELECTRICAL REQUIREMENTS AND SPECIFICATIONS.

GENERAL NOTE

1. FINAL EQUIPMENT LOCATIONS AND REQUIREMENTS TO BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AND DATA OUTLETS IN SERVICE SHOP, SERVICE DRIVE, AND COMPRESSOR FLUID ROOMS SHALL BE RECESSED WITH RECESSED CONDUIT AND MOUNTED MINIMUM 40" AFF(UON). ALL EXPOSED CONDUITS SHALL BE INSTALLED WITH EXPLOSION-PROOF FITTINGS PER NEC UNLESS WITH UNBROKEN RACEWAY EXTEND TO 30" AFF. UNDERGROUND CONDUITS SHALL BE RMC OR IMC PER NEC 511.8 UNLESS INSTALLED PER EXCEPTION AND CONTAIN RIGID ELBOWS WHILE PASSING THRU ARE WITHIN 24" OF SLAB. UNVENTILATED PITS ARE CLASSIFIED IN ACCORDANCE WITH 2020 NEC 511.

2
 E201
 LEVEL 2 POWER PLAN
 1/8" = 1'-0"

1
 E201
 LEVEL 1 POWER PLAN
 1/8" = 1'-0"





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ENGINEER'S SEAL:



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 802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

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1	REVIEW COMMENTS 1	11/10/2023
2	Revision 2	Date 2

FIRST FLOOR LIGHTING PLAN

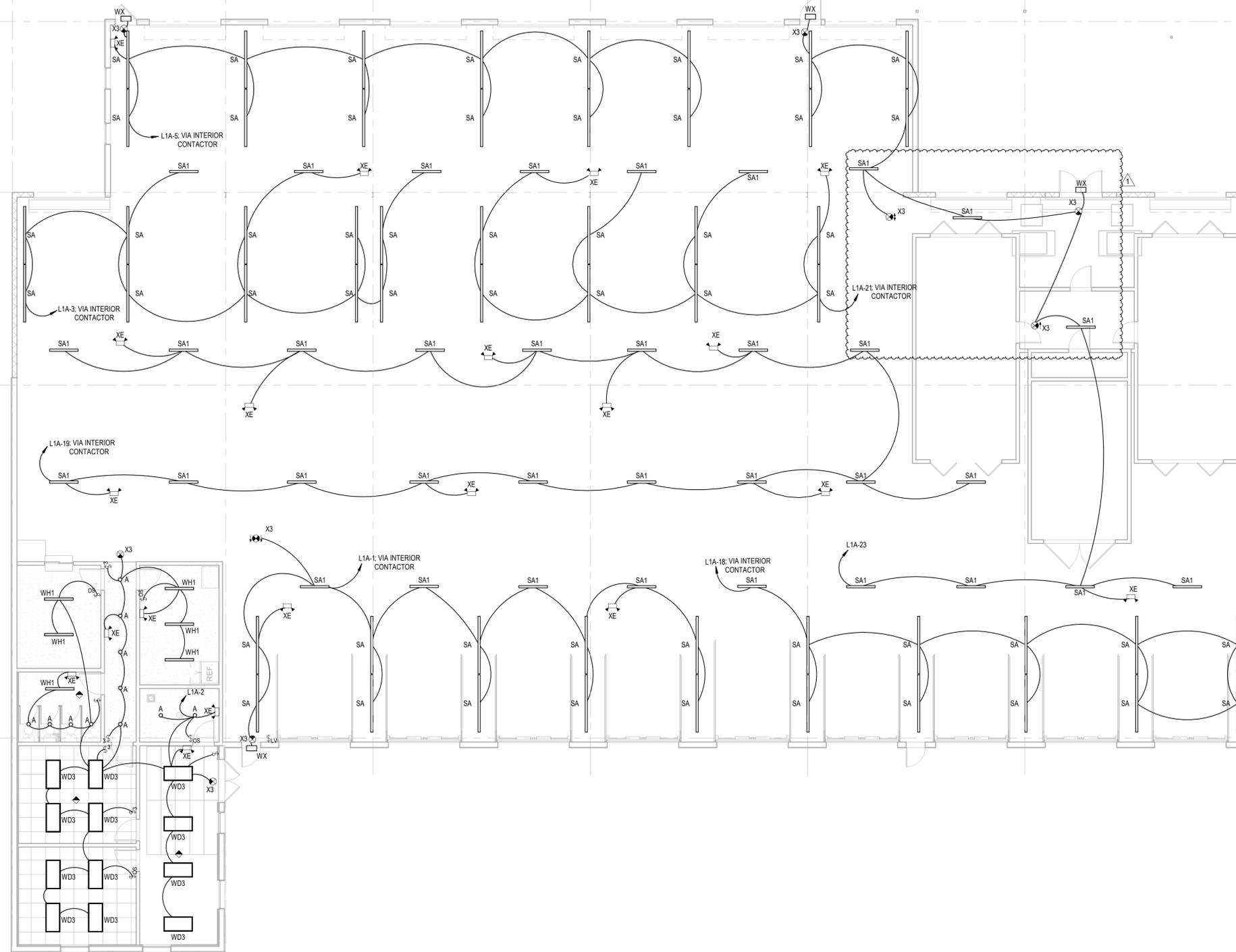
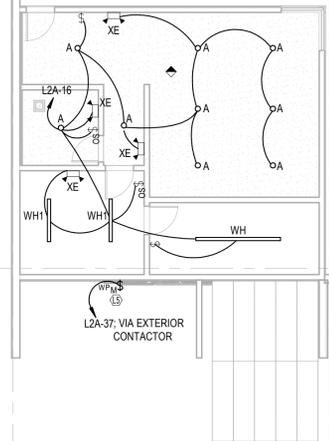
SHEET NAME:

E301

SHEET NUMBER

ELECTRICAL KEYNOTES

L5 EXTERIOR BUILDING SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH SIGN PROVIDER.



2 LEVEL 2 LIGHTING PLAN
 E301 1/8" = 1'-0"

1 LEVEL 1 LIGHTING PLAN
 E301 1/8" = 1'-0"



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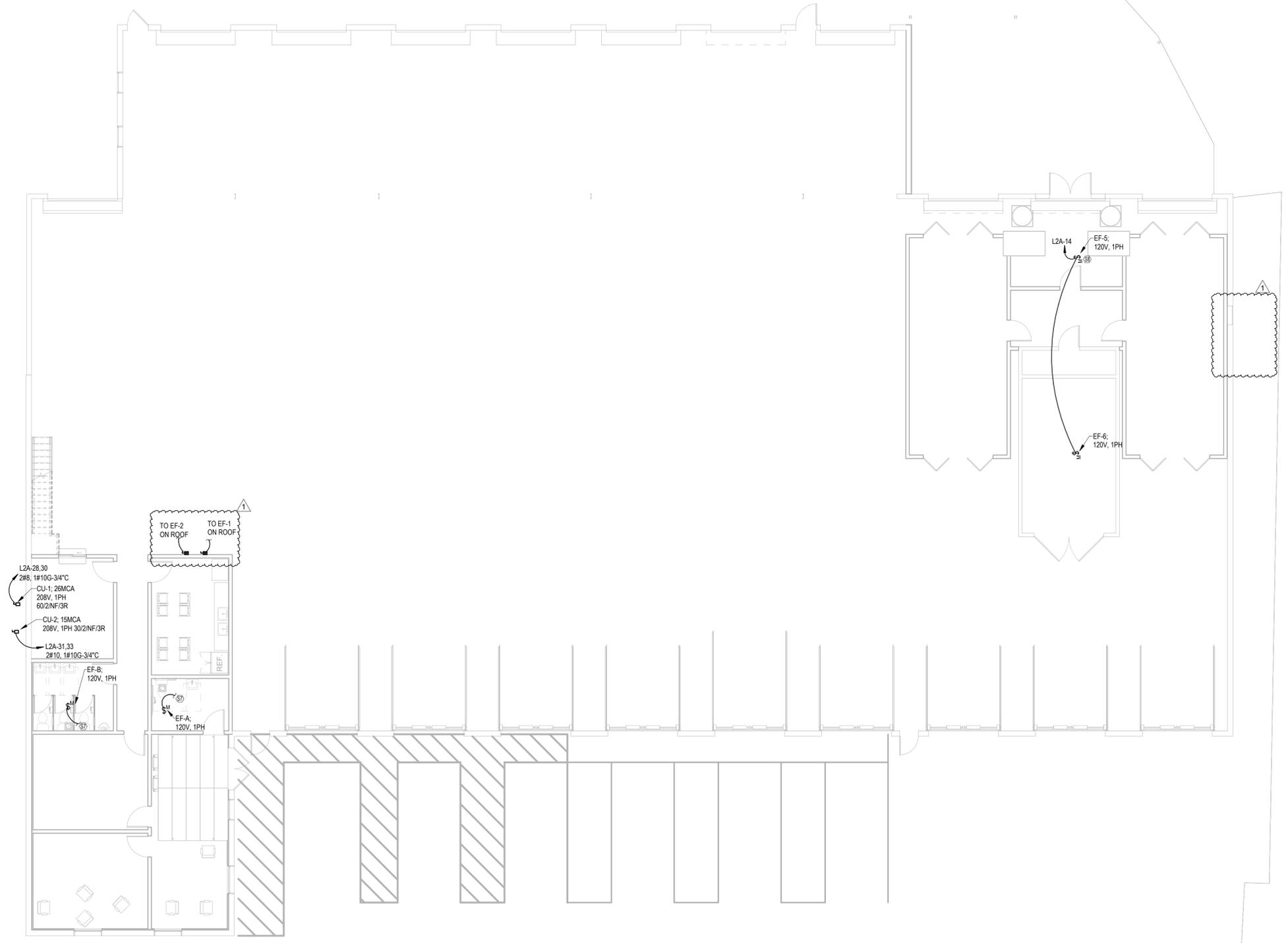
FIRST FLOOR SYSTEMS PLAN

SHEET NAME:

E401

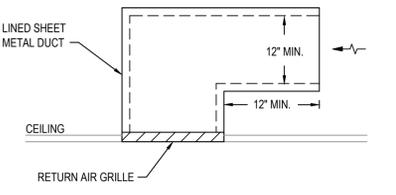
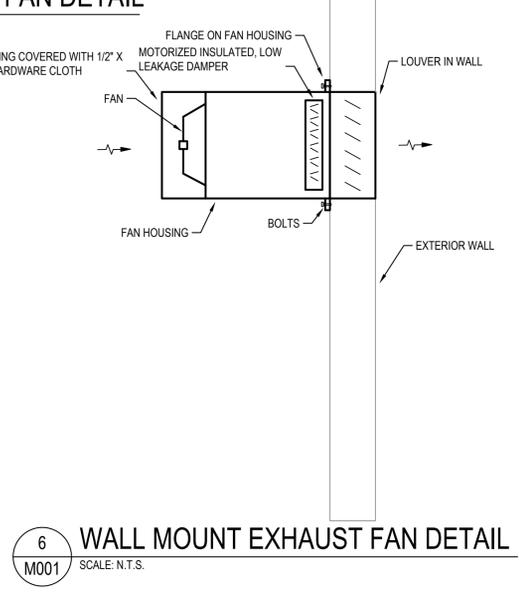
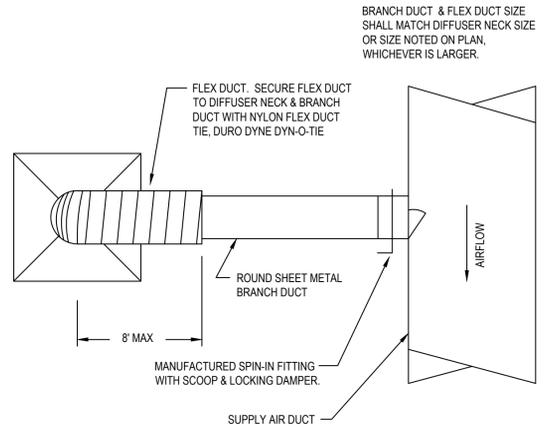
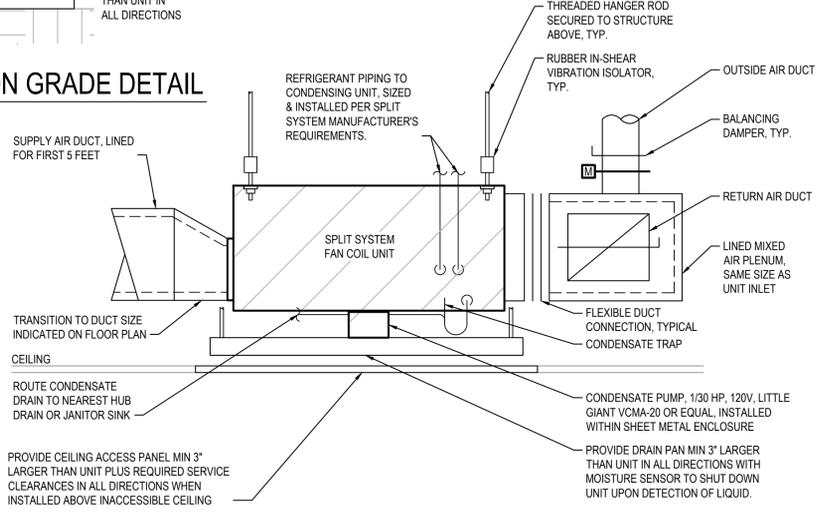
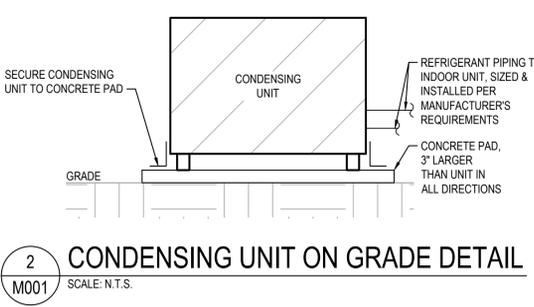
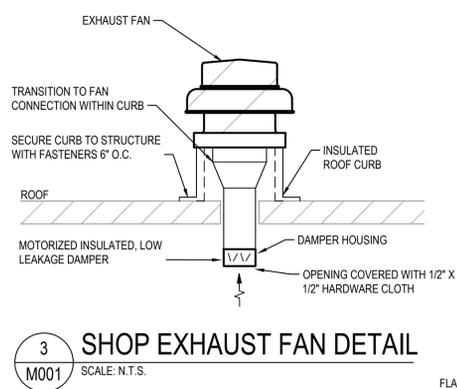
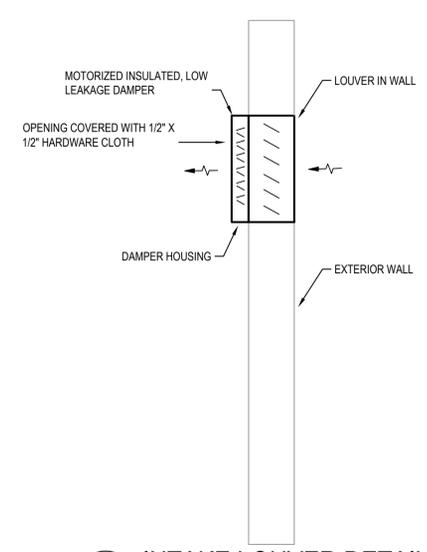
SHEET NUMBER

1 LEVEL 1 SYSTEMS PLAN
 E401 1/8" = 1'-0"



LEGEND		
TAG	SYMBOL	DESCRIPTION
A/C		ABOVE CEILING
AHU		AIR HANDLER
BDD		BACKDRAFT DAMPER
B/F		BELOW FLOOR
CD	☒	CEILING DIFFUSER
CWS&R		CONDENSER WATER SUPPLY & RETURN
CFM		CUBIC FOOT PER MIN.
DB		DRY BULB
	—	NEW DUCT WORK
EXIST.	---	EXISTING DUCT / PIPE
EAT		ENTERING AIR TEMPERATURE
EWT		ENTERING WATER TEMPERATURE
EF		EXHAUST FAN
ER	☒	EXHAUST REGISTER
ESP		EXTERNAL STATIC PRESSURE
FD	▼	FIRE DAMPER
F/S/D	▼	COMBINATION FIRE & SMOKE DAMPER
	◆	VERTICAL FIRE DAMPER
	◆	VERTICAL COMBINATION FIRE & SMOKE DAMPER
HP		HORSEPOWER
LAT		LEAVING AIR TEMPERATURE
LWT		LEAVING WATER TEMPERATURE
MD		MANUAL DAMPER
	☒	MOTOR OPERATED DAMPER
OA		OUTSIDE AIR
RA		RETURN AIR
RAG	☒	RETURN AIR GRILLE
SA		SUPPLY AIR
SR		SUPPLY REGISTER
	Ⓜ	THERMOSTAT
	Ⓢ	THERMOSTAT SENSOR
	Ⓢ	CARBON MONOXIDE SENSOR
	Ⓢ	NITROGEN DIOXIDE SENSOR
	Ⓢ	FAN SWITCH
	☒	BALL VALVE
WSHP		WATER SOURCE HEAT PUMP

- GENERAL NOTES:**
- DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO PROVIDE A COMPLETE MECHANICAL SYSTEM COMPLIANT WITH ALL REQUIRED CODES & STANDARDS.
 - CONTRACTOR SHALL VISIT THE SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. IF EXISTING CONDITIONS DIFFER FROM DESIGN DOCUMENTS IN SUCH A MANNER THAT AFFECTS PRICING, THE CONTRACTOR SHALL ADJUST THE BID ACCORDINGLY AND NOTIFY THE OWNER & ENGINEER PRIOR TO SUBMITTING THE BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE REGARDING THE EXISTING CONDITIONS.
 - ALL RETURN AIR AND TRANSFER AIR DUCTS SHALL BE LINED WITH 1" THICK DUCT LINER.
 - PROVIDE NEW, 7-DAY PROGRAMMABLE THERMOSTAT INCLUDING PROGRAMMABLE OCCUPANCY SETTINGS FOR EACH RTU. ALL LOW VOLTAGE CONTROL WIRING SHALL BE INSTALLED AND WIRED TO EQUIPMENT AS A PART OF THIS CONTRACT.
 - ALL LOW VOLTAGE CONTROL WIRING SHALL BE INSTALLED AND WIRED TO EQUIPMENT AS A PART OF THIS CONTRACT.
 - ALL HVAC DUCT WORK SHALL BE INDEPENDENTLY SUPPORTED FROM ROOF STRUCTURE. VERIFY DURING INSPECTION.



WALL LOUVER SCHEDULE												
TAG	AIRFLOW (CFM)	AREA/UNIT SERVED	SERVICE	DESCRIPTION	FREE AREA (SF)	NOMINAL SIZE			PRESSURE DROP (IN W.C.)	MAX VELOCITY (FPM)	BASIS OF DESIGN	NOTES
						WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)				
WL-1	7000	EF-1	INTAKE	STATIONARY LOUVER	9.4	48	48	6	0.08	744	GREENHECK ESD-635	ALL
WL-2	7000	EF-2	INTAKE	STATIONARY LOUVER	9.4	48	48	6	0.08	744	GREENHECK ESD-635	ALL
WL-5	250	EF-5	EXHAUST	STATIONARY LOUVER	0.4	14	14	6	0.07	714	GREENHECK ESD-635	ALL
WL-6	250	EF-6	EXHAUST	STATIONARY LOUVER	0.4	14	14	6	0.07	714	GREENHECK ESD-635	ALL

- NOTES:**
- LOUVER COMPONENTS (HEADS, JAMBS, SILLS, BLADES, & MULLIONS) SHALL BE FACTORY ASSEMBLED BY MANUFACTURER.
 - PROVIDE WITH GALVANIZED MESH BIRD SCREEN.
 - PROVIDE WITH FACTORY APPLIED 2-COAT 50% KYNAR FINISH. COORDINATE COLOR WITH ARCHITECT PRIOR TO ORDERING.
 - LOUVER PERFORMANCE SHALL BE TESTED IN ACCORDANCE WITH AMCA 511.
 - PROVIDE WITH VCD-34 MOTORIZED, INSULATED, LOW LEAKAGE DAMPERS.
 - LOUVER SHALL CLOSE UPON ACTIVATION OF ALL WATER FLOW ALARMS.

HEAT PUMP SPLIT SYSTEM SCHEDULE																				
TAG	SUPPLY AIR (CFM)	ESP (IN. W.C.)	OUTSIDE AIR (CFM)	BLOWER MOTOR POWER (HP)	COOLING					HEAT PUMP					AUX. ELEC HEAT	VOLTAGE/PHASE	BASIS OF DESIGN	NOTES		
					TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	OUTDOOR TEMP DB (°F)	MIN. SEER	TOTAL CAPACITY (MBH)	EAT DB (°F)	OUTDOOR TEMP DB (°F)	MIN. HSPF	CAPACITY (KW)					NO. OF STAGES	
FC/CU-1	1600	0.5	205	3/4	48	35	80 / 67	95	14.0	29.6	68	17	8.2	7.2	1	208/1	208/1	HORIZONTAL	TRANE GAM5*48 / 4TWR4048	1,2
FC/CU-2	600	0.5	60	1/3	18.1	13.2	80 / 67	95	14.0	10.0	68.0	17.0	8.2	5.76	1	208/1	208/1	HORIZONTAL	TRANE GAM5*18 / 4TWR4018	1,2

- NOTES:**
- PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE PROGRAMMABLE OCCUPANCY PERIODS TO ENERGIZE SUPPLY FAN AND OPEN ASSOCIATED OUTSIDE AIR DAMPER DURING OCCUPIED
 - PROVIDE WITH LITTLE GIANT CONDENSATE PUMP.

GAS HEATER SCHEDULE								
TAG	AIRFLOW (CFM)	FAN HP	HEATING CAPACITY (MBH)	STAGES	TYPE	VOLTS/ PHASE	BASIS OF DESIGN	NOTES
GUH-A	--	--	75	1	GAS UNIT HEATER	120/1	MODINE HDS 75	1

- NOTES:**
- PROVIDE WITH ELECTRIC IGNITION, 120V/1PH POWER SUPPLY, AND GAS PRESSURE REGULATOR.

FAN SCHEDULE										
TAG	AIRFLOW (CFM)	ESP (IN. W.C.)	MOTOR POWER (HP)	FAN SPEED (RPM)	TYPE	DRIVE TYPE	NOISE (SONES)	VOLTS / PHASE (V/Ø)	BASIS OF DESIGN	NOTES
EF-A	75	0.5	111 W	825	INLINE	DIRECT	2.2	120/1	GREENHECK CSP-A200	1,2,3,4
EF-B	300	0.5	70 W	1373	INLINE	DIRECT	2.7	120/1	GREENHECK CSP-A390-VG	1,2,3,4
EF-1	7000	0.5	1.5	1750	SIDEWALL	DIRECT	32	208/3	GREENHECK AER-24-03-0824	1,2,5
EF-2	7000	0.5	1.5	1750	SIDEWALL	DIRECT	32	208/3	GREENHECK AER-24-03-0324	1,2,5
EF-5	250	0.5	52 W	1304	CABINET	DIRECT	1.5	120/1	GREENHECK CSP-A390-VG	1,2,3,6
EF-6	250	0.5	52 W	1304	CABINET	DIRECT	1.5	120/1	GREENHECK CSP-A390-VG	1,2,3,4

- NOTES:**
- PROVIDE WITH BACKDRAFT DAMPER.
 - PROVIDE SPEED CONTROLLER FOR BALANCING.
 - FAN SHALL BE EQUIPPED WITH INTEGRAL DISCONNECT.
 - FAN SHALL BE INTERLOCKED WITH LIGHTS.
 - FAN SHALL BE THERMOSTATICALLY CONTROLLED TO OPERATE WHEN TEMPERATURE RISES ABOVE SET POINT. FAN SHALL BE INTERLOCKED WITH INTAKE LOUVERS IN SHOP TO OPEN LOUVERS DURING FAN OPERATION.
 - FAN SHALL OPERATE CONTINUOUSLY.

AIR DISTRIBUTION SCHEDULE		
TAG	DESCRIPTION	BASIS OF DESIGN
SR	SUPPLY REGISTERS (SR) SHALL BE STEEL, DOUBLE DEFLECTION TYPE PROVIDED WITH OPPOSED BLADE DAMPER AND OUTER MOST SET OF DEFLECTORS PARALLEL TO THE SHORT DIMENSION. PROVIDE WITH OPPOSED BLADE BALANCING DAMPER AND FACTORY APPLIED, WHITE, BAKED ENAMEL FINISH.	TITUS 300RS
RAG	RETURN AIR GRILLES (RAG) SHALL BE ALUMINUM EGGCRATE WITH ALUMINUM BORDER SIZED FOR INSTALLATION IN A 24x24 CEILING MODULE. PROVIDE LINED RETURN AIR PLENUM FULL SIZE OF GRILLE CONNECTION WITH DUCT CONNECTION SIZE INDICATED ON PLAN.	TITUS 50F
RG	SURFACE MOUNT RETURN GRILLE (RG) SHALL BE STEEL WITH FXED 35° DEFLECTION, BLADES PARALLEL TO THE LONG DIMENSION AND 3/4" BLADE SPACING. PROVIDE WITH FACTORY APPLIED, WHITE, BAKED ENAMEL FINISH AND OPPOSED BLADE DAMPER.	TITUS 350RL
TG	TRANSFER GRILLE (TG) SHALL MATCH RG.	TITUS 350RL

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 Registration: RA012322

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AUTO BODY SHOP RENOVATION - BLDG 100
 802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

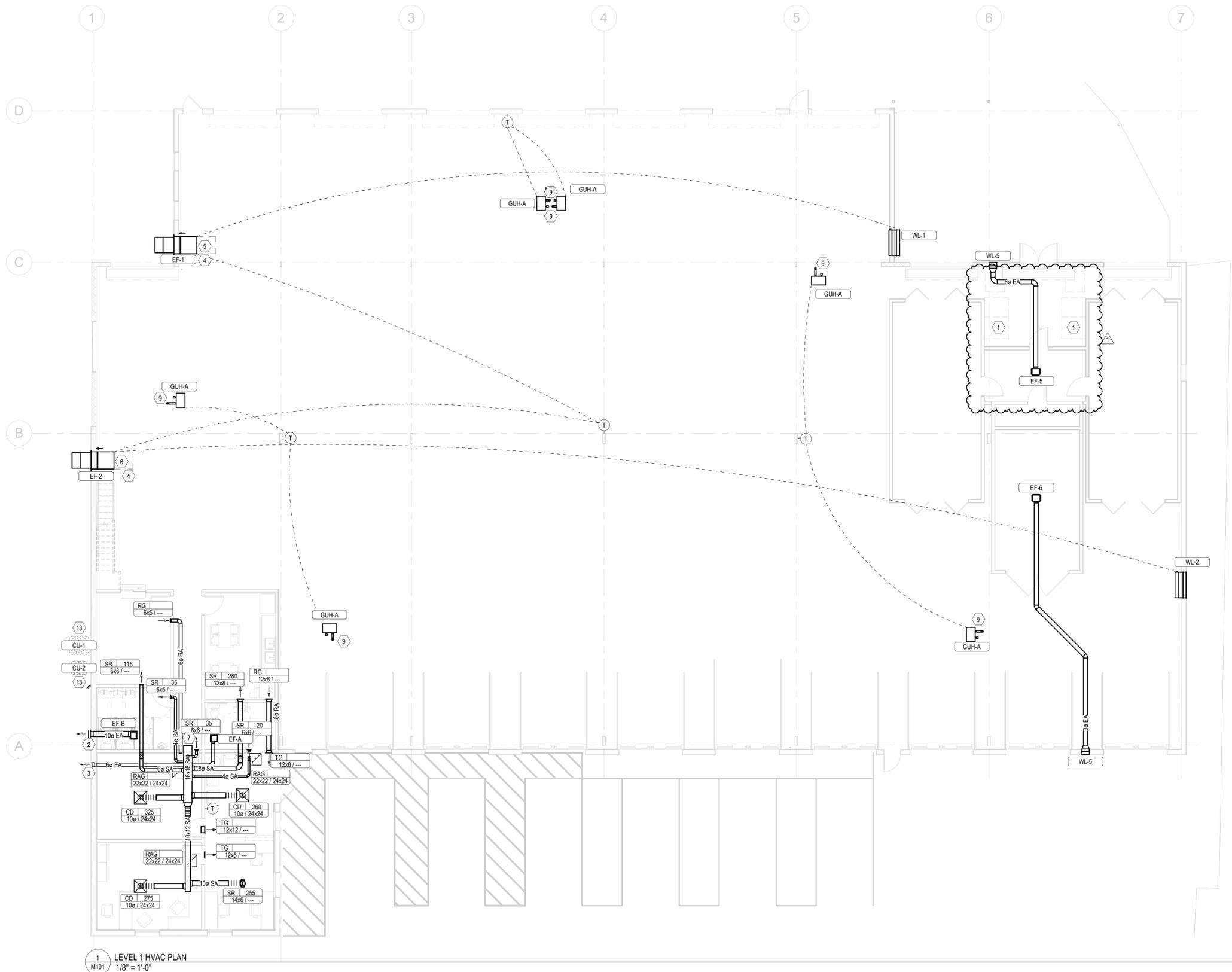
ISSUE: FOR CONSTRUCTION
 DATE: 09/08/2023

REVISION SCHEDULE		
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

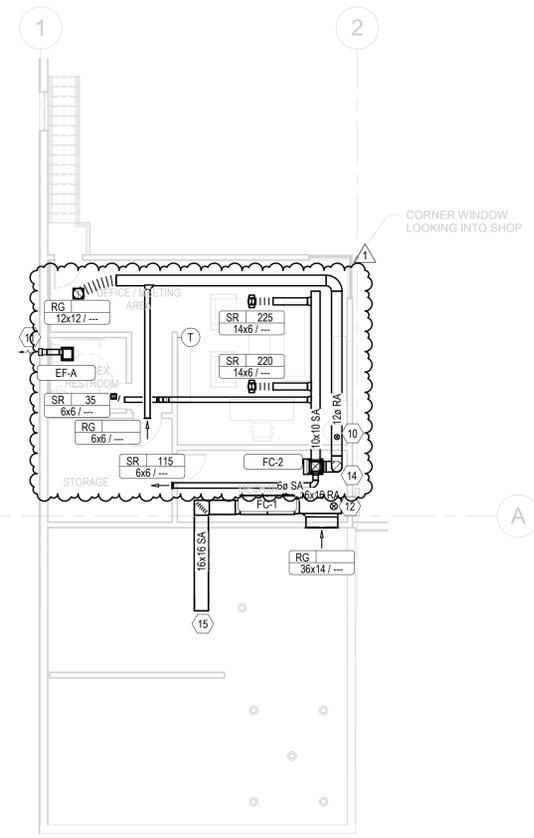
LEGEND, NOTES, DETAILS & SCHEDULES

SHEET NUMBER: **M001**

- KEYNOTES**
- MECHANICAL EQUIPMENT AND DUCTWORK FOR PAINT BOOTH PROVIDED BY OTHERS. SHALL BE INSTALLED BY MECHANICAL CONTRACTOR.
 - 10" EXHAUST DUCT TO WALL CAP.
 - 6" EXHAUST DUCT TO WALL CAP.
 - PROVIDE OSHA GUARD ON THRU WALL FAN.
 - EF-1 SHALL BE INTERLOCKED WITH WL-1.
 - EF-2 SHALL BE INTERLOCKED WITH WL-2.
 - SEE 2/M101 FOR DUCT CONTINUATION.
 -
 -
 - FLUE SHALL BE ROUTED UP TO ROOF. SIZE AND TERMINATION TYPE SHALL BE PER THE UNIT HEATER'S MANUFACTURER'S INSTALLATION INSTRUCTIONS. FLUE SHALL BE TYPE "B" DOUBLE WALL.
 - 6" OUTSIDE AIR DUCT UP TO ROOF HOOD. BASIS OF DESIGN GREENHECK GRSI. OUTSIDE AIR CONNECTION SHALL HAVE MANUAL AND MOTORIZED DAMPERS.
 - 6" EXHAUST DUCT TO WALL CAP.
 - 8" OUTSIDE AIR DUCT UP TO ROOF HOOD. BASIS OF DESIGN GREENHECK GRSI. OUTSIDE AIR CONNECTION SHALL HAVE MANUAL AND MOTORIZED DAMPERS.
 - FILED COORDINATE FINAL LOCATION OF CONDENSING UNIT.
 - ROUTING OF EXHAUST DUCT TO BE QUANTIFIED BY OTHERS.
 - SEE 1/M101 FOR DUCT CONTINUATION.



1 LEVEL 1 HVAC PLAN
M101 1/8" = 1'-0"



2 LEVEL 2 HVAC PLAN
M101 1/8" = 1'-0"

AUTO BODY SHOP RENOVATION - BLDG 100
802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION
DATE: 09/08/2023

REVISION SCHEDULE:		
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

MECHANICAL FLOOR PLANS

SHEET NAME:

M101

SHEET NUMBER

SECTION 220100 - PLUMBING GENERAL:

A. GENERAL

- 1. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO PROVIDE A COMPLETE PLUMBING SYSTEM COMPLIANT WITH ALL REQUIRED CODES & STANDARDS.
2. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED.
3. ALL REQUIRED PERMITS & INSPECTIONS SHALL BE SECURED & PAID FOR UNDER THIS CONTRACT. INSPECTION CERTIFICATIONS SHALL BE PROVIDED TO THE OWNER.
4. CONTRACTOR SHALL VISIT THE SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. IF EXISTING CONDITIONS DIFFER FROM DESIGN DOCUMENTS IN SUCH A MANNER THAT AFFECTS PRICING, THE CONTRACTOR SHALL ADJUST THE BID ACCORDINGLY AND NOTIFY THE OWNER & ENGINEER PRIOR TO SUBMITTING THE BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE REGARDING THE EXISTING CONDITIONS.

C. IDENTIFICATION

- 1. PERMANENT BAKELITE TAGS WITH 1" TALL LETTERS SHALL BE PROVIDED FOR ALL EQUIPMENT. EQUIPMENT NUMBERING SHALL MATCH BUILDING STANDARDS.

D. STARTERS

- 1. ALL MOTORS SHALL BE PROVIDED WITH MAGNETIC MOTOR STARTERS WITH OVERLOAD PROTECTION.
2. STARTERS SHALL BE PROVIDED WITH HAND-OFF-AUTO SWITCHES.
3. INDOOR MOTOR STARTERS SHALL BE FURNISHED WITHIN A NEMA 1 ENCLOSURE.
4. OUTDOOR MOTOR STARTERS SHALL BE FURNISHED WITHIN A NEMA 3R ENCLOSURE.

E. SUBMITTALS & SHOP DRAWINGS

- 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & PRODUCT DATA FOR ALL PLUMBING EQUIPMENT & SYSTEMS TO BE PROVIDED AND/OR INSTALLED.

F. SUBSTITUTE MANUFACTURERS

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION & COST OF ALL CHANGES REQUIRED FOR INSTALLATION OF EQUIPMENT & PRODUCTS MANUFACTURED BY THOSE OTHER THAN WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS.
2. CAREFULLY COORDINATE SUBSTITUTE MANUFACTURER'S INSTALLATION REQUIREMENTS WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO STRUCTURE, ELECTRICAL, PLUMBING AND ARCHITECTURAL. ALL INSTALLATION COSTS ASSOCIATED WITH INSTALLATION OF SUBSTITUTE MANUFACTURER SHALL BE INCLUDED IN BID. NO ALLOWANCES SHALL BE GIVEN FOR CHANGES ASSOCIATED WITH INSTALLATION OF SUBSTITUTE EQUIPMENT & SYSTEMS.
3. LISTING OF A MANUFACTURER AS AN "EQUAL" DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY OF COORDINATION & COST ASSOCIATED WITH CHANGES REQUIRED TO OTHER TRADES.

G. WARRANTY

- 1. CONTRACTOR SHALL WARRANT ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR.
2. ALL HVAC COMPRESSORS SHALL BE WARRANTED FOR A PERIOD OF NOT LESS THAN 5 YEARS.

H. AS-BUILT DRAWINGS

- 1. CONTRACTOR SHALL KEEP REDLINE SET OF DRAWINGS ON SITE DURING CONSTRUCTION TO UPDATE LOCATION OF ALL EQUIPMENT AND SYSTEMS AS THE CONSTRUCTION PROGRESSES. REDLINE SET OF DRAWINGS SHALL BE TURNED OVER TO OWNER AT COMPLETION OF CONSTRUCTION.

I. OPERATION & MAINTENANCE MANUALS

- 1. CONTRACTOR SHALL PROVIDE AN ELECTRONIC SET AND ONE (1) SET OF HARD COPIES OF INSTALLATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT & SYSTEMS PROVIDED UNDER THIS CONTRACT.

J. INSTRUCTION

- 1. CONTRACTOR SHALL THOROUGHLY INSTRUCT OWNER ON OPERATION AND RECOMMENDED MAINTENANCE PROCEDURES OF ALL INSTALLED EQUIPMENT & SYSTEMS.

SECTION 24000 PLUMBING SYSTEMS

- A. ALL SANITARY PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
B. SANITARY & VENT PIPING SHALL BE SCHEDULE 40 PVC.
C. DOMESTIC WATER & CONDENSATE PIPING SHALL BE TYPE L HARD COPPER WITH LEAD FREE SOLDERED JOINTS. CONDENSATE PIPING SHALL BE INSTALLED WITH DWV TYP FITTINGS.
D. ALL CONDENSATE, HOT & COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION WITH WHITE ALL SERVICE JACKET.
E. WATER HAMMER ARRESTORS SHALL BE PROVIDED & SIZED PER PDI GUIDELINES AT ALL QUICK CLOSING VALVES. ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO CONCEALING OR INSULATING THE PIPING.
F. ALL PIPING SHALL BE CONCEALED WITHIN WALLS OR ABOVE CEILING.
G. PIPING INSTALLED ABOVE CEILING SHALL BE INSTALLED AS HIGH AS POSSIBLE.
H. ALL VALVES LOCATED ABOVE CEILING SHALL BE LOCATED WITHIN 1' OF ACCESS PANEL OR 1' ACCESSIBLE CEILING.
I. REFER TO ARCHITECTURAL FLOOR PLANS & ELEVATIONS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
J. PLUMBING SYSTEMS SHALL NOT BE INSTALLED WITHIN OR PASSING THROUGH, ELECTRICAL CLOSETS, SWITCHGEAR ROOMS, TELEPHONE ROOMS, ELEVATOR EQUIPMENT ROOMS OR ABOVE ELECTRICAL PANELS.
K. INSTALL IDENTIFICATION MARKERS ON ALL PIPING SYSTEMS & VALVES THAT INCLUDE SERVICE TYPE & DIRECTION OF FLOW PER ASME A13.1.
L. ALL DOMESTIC WATER PIPING SYSTEMS SHALL BE FLUSHED & DISINFECTED. SYSTEMS SHALL BE FILLED WITH AN EVENLY DISTRIBUTED DOSE OF 50 TO 200 PPM CHLORINE. ALL FIXTURES & OUTLETS SHALL BE TESTED TO ENSURE EVEN DISTRIBUTION. AFTER 12 HOURS THE RESIDUAL CHLORINE SHALL BE TESTED. DISINFECTION PROCEDURE SHALL BE REPEATED UNTIL RESIDUAL CHLORINE LEVEL IS GREATER THAN 10 PPM AFTER SITTING UNDISTURBED FOR 12 HOURS. ONCE DISINFECTION PROCEDURE IS COMPLETE, SYSTEM SHALL BE THOROUGHLY FLUSHED WITH CLEAN WATER.
M. GAS PIPING SHALL BE SCHEDULE 40 STEEL WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS. THREADS SHALL BE COATED WITH RECTOR SEAL PRIOR TO ASSEMBLING EACH JOINT. PROVIDE GAS COCK, DRIP LEG AND UNION AT EACH EQUIPMENT CONNECTION. FOR SYSTEMS WITH DELIVERY PRESSURE ABOVE 14" W.C. A REGULATOR SHALL BE PROVIDED AND SIZED FOR EACH PIECE OF EQUIPMENT. ENTIRE GAS PIPING SYSTEM SHALL BE PRESSURE TESTED TO 30 PSI FOR A MINIMUM OF 8 HOURS WITHOUT A LOSS IN PRESSURE. GAS SERVICE SHALL NOT BE CONNECTED UNTIL PRESSURE TEST HAS BEEN COMPLETED AND PASSED.

SECTION 21525 FIRE PROTECTION SYSTEMS

- A. FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION CONTRACTOR.
B. FIRE PROTECTION SYSTEM SHALL CONFORM TO NFPA 13, 14 AND ALL LOCAL CODE REQUIREMENTS.
C. FIRE PROTECTION SYSTEM DESIGN SHALL BE SUBJECT TO THE APPROVAL OF THE FIRE MARSHAL AND THE OWNER'S UNDERWRITER.
D. DOUBLE CHECK BACKFLOW PREVENTER SHALL BE WATTS 709 OR EQUAL.
E. PIPING 2" AND LARGER SHALL BE SCHEDULE 10 WITH ROLL GROOVED VICTAULIC JOINTS.
F. PIPING SMALLER THAN 2" SHALL BE SCHEDULE 40 STEEL WITH THREADED JOINTS AND MALLEABLE IRON FITTINGS.
G. THE USE OF LIGHTWALL PIPING SUCH AS ALLIED XL / BLT, IS NOT ACCEPTABLE.
H. SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE SEMI-RECESSED CHROME PLATED.
I. SPRINKLER HEADS LOCATED IN HARD CEILINGS SHALL BE FULLY RECESSED WITH COVER MATCHING THE COLOR OF THE CEILING.
J. AREAS WITH NO CEILINGS SHALL HAVE UPRIGHT, BRASS HEADS.
K. FIRE PROTECTION SYSTEM SHALL BE TESTED PRIOR TO OWNER ACCEPTANCE.

GENERAL NOTES (APPLY TO ALL SHEETS):

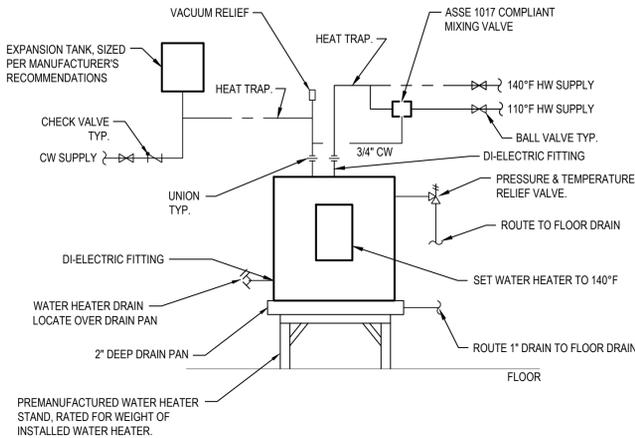
- 1. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO PROVIDE A COMPLETE PLUMBING SYSTEM COMPLIANT WITH ALL REQUIRED CODES & STANDARDS.
2. CONTRACTOR SHALL VISIT THE SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. IF EXISTING CONDITIONS DIFFER FROM DESIGN DOCUMENTS IN SUCH A MANNER THAT AFFECTS PRICING, THE CONTRACTOR SHALL ADJUST THE BID ACCORDINGLY AND NOTIFY THE OWNER & ENGINEER PRIOR TO SUBMITTING THE BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE REGARDING THE EXISTING CONDITIONS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE MOUNTING HEIGHTS & LOCATIONS.
4. COORDINATE ALL SAN, VENT, CW, HW, ETC. WITH EXISTING CONDITIONS & ALL OTHER TRADES.
5. ALL SANITARY PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
6. SANITARY & VENT PIPING SHALL BE SCHEDULE 40 PVC.
7. DOMESTIC WATER & CONDENSATE PIPING SHALL BE TYPE L HARD COPPER WITH LEAD FREE SOLDERED JOINTS. CONDENSATE PIPING SHALL BE INSTALLED WITH DWV TYP FITTINGS.
8. ALL CONDENSATE, HOT & COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION WITH WHITE ALL SERVICE JACKET.
9. WATER HAMMER ARRESTORS SHALL BE PROVIDED & SIZED PER PDI GUIDELINES AT ALL QUICK CLOSING VALVES.
10. ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO CONCEALING OR INSULATING THE PIPING.

LEGEND table with columns TAG, SYMBOL, DESCRIPTION. Includes entries for A/C (ABOVE CEILING), AF (ABOVE FINISHED FLOOR), AHU (AIR HANDLING UNIT), B/F (BELOW FLOOR), B/G (BELOW GRADE), CO (CLEAN OUT), CW (DOMESTIC COLD WATER), CHECK VALVE, NEW WORK, EXIST. (EXISTING PIPE / EQUIPMENT), FCU (FAN COIL UNIT), FCO (FLOOR CLEAN OUT), FD (FLOOR DRAIN), FDC (FIRE DEPARTMENT CONNECTION), FS (FLOOR SINK), FW (FILTERED WATER), HB (HOSE BIBB), HD (HUB DRAIN), HW (DOMESTIC HOT WATER), HWR (HOT WATER RETURN), NFWH (NON FREEZE WALL HYDRANT), SAN (SANITARY PIPING), ST (STORM PIPING), V (VENT PIPING), VTR (VENT THROUGH ROOF), WCO (WALL CLEAN OUT), W (WASTE PIPING), WSH (WATER SOURCE HEAT PUMP).

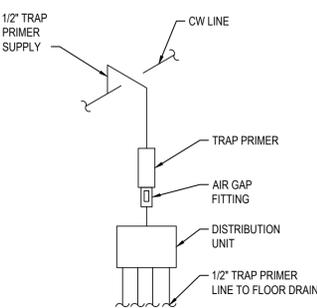
ELECTRIC WATER HEATER SCHEDULE table with columns TAG, CAPACITY (GAL), ELEMENT (KW), RECOVERY RATE (GPH @ 90F), VOLTS/PHASE, BASIS OF DESIGN, NOTES. Row WH-1: 30, 4.5, 27, 208/1, AO SMITH DEL-30.

NOTES:

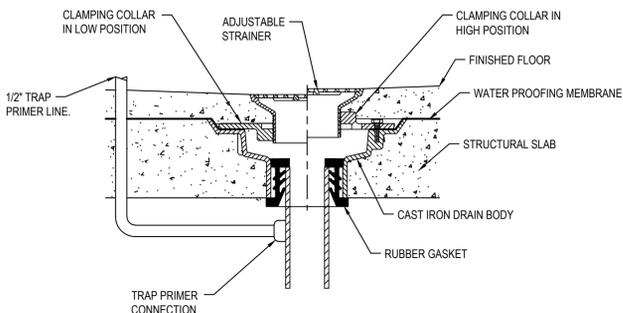
PLUMBING FIXTURE SCHEDULE table with columns MARK, DESCRIPTION, DESIGN BASIS (NO SUBSTITUTIONS), WATER PIPE SIZE (CW, HW), DRAIN CONNECTION, VENT CONNECTION, MOUNTING HEIGHT. Includes fixtures like LAVATORY WALL HUNG, WATER CLOSET, ADA WATER CLOSET, ADA URINAL, ADA EMPLOYEE AND TECH BREAKROOM SINK WITH GABAGE DISPOSAL, FLOOR CLEANOUT, FLOOR DRAIN RESTROOMS, WATER HAMMER ARRESTER, HOSE BIBB, WALL HYDRANT, ICEMAKER VALVE BOX, TRAP PRIMER.



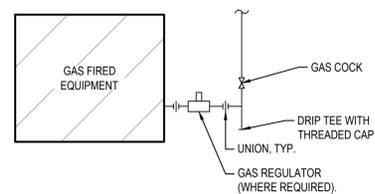
1 WATER HEATER DETAIL
P001 SCALE: N.T.S. (WH-1)



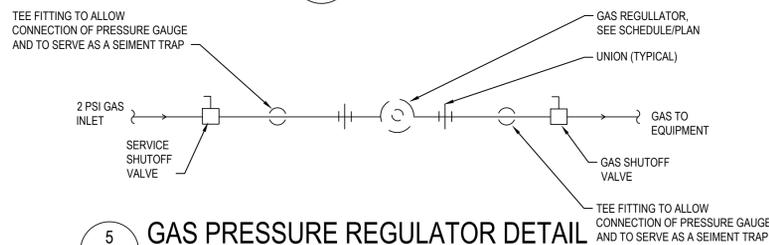
3 TRAP PRIMER DETAIL
P001 SCALE: N.T.S.



2 FLOOR DRAIN DETAIL
P001 SCALE: N.T.S.



4 GAS CONNECTION DETAIL
P001 SCALE: N.T.S.



5 GAS PRESSURE REGULATOR DETAIL
P001 SCALE: N.T.S.

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802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

ISSUE: FOR CONSTRUCTION DATE: 09/08/2023

REVISION SCHEDULE table with columns No, Description, Date. Row 1: REVISION COMMENTS 1, 11/10/2023

LEGEND, NOTES, DETAILS & SCHEDULES SHEET NAME:

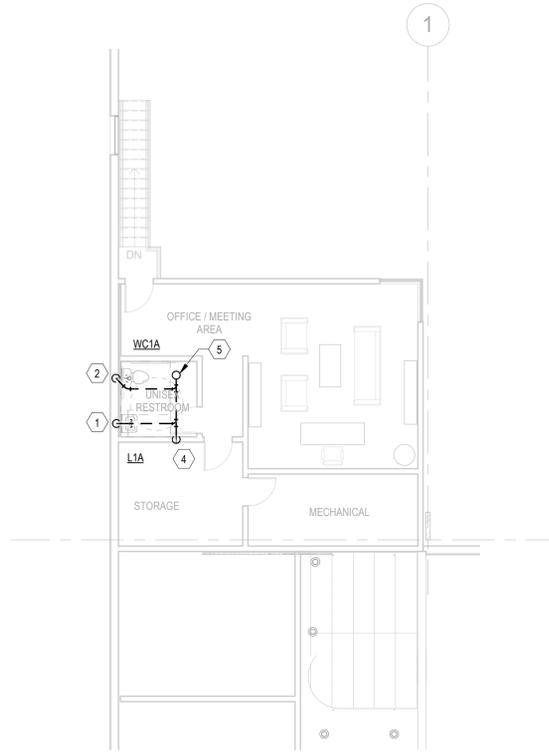
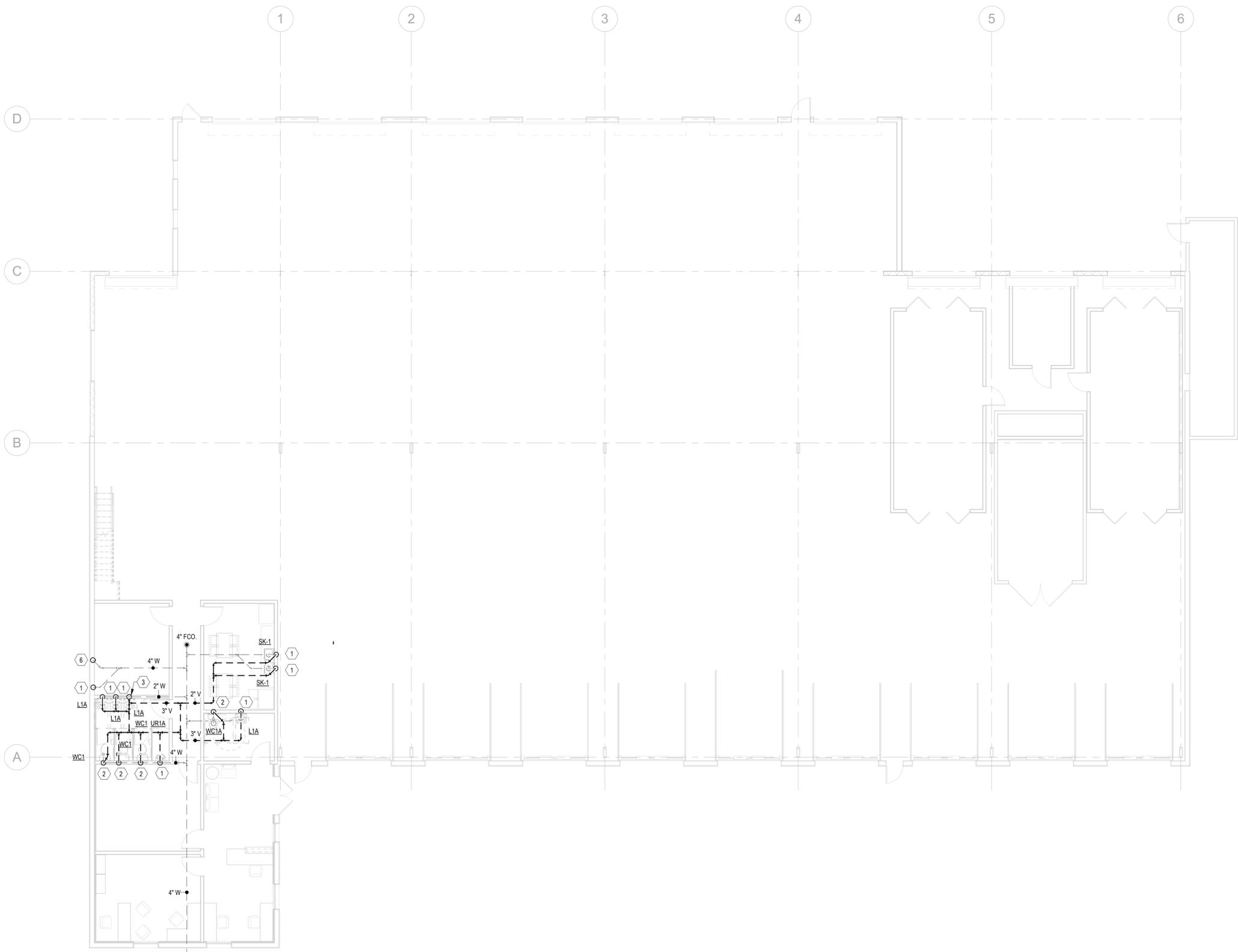
P001 SHEET NUMBER:

KEYNOTES

- 1 2" W, 2" V.
- 2 4" W, 2" V.
- 3 2" W DN AND 2" V UP TO 3" V ABOVE CEILING.
- 4 3" V DN.
- 5 3" V UP TO 3" VTR.
- 6 4" W UP & DN.

FIRM INFORMATION:
GJR ARCHITECT, LLC
Firm License: 2021198954
2010 Nichols Landing Way
Dacula, GA 30019
404.902.9195

ARCHITECT INFORMATION:
Gabriel J. Richard AIA NCARB
Registration: RA012322



4" SAN BELOW GRADE.
I.E. 3'-2" BELOW FINISHED FLOOR.
SEE CIVIL PLANS FOR CONTINUATION

1 Plumbing Floor Plan-01-San & Vent
P101 1/8" = 1'-0"

2 Plumbing Floor Plan-02-San & Vent
P101 1/8" = 1'-0"

AUTO BODY SHOP RENOVATION - BLDG 100
802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

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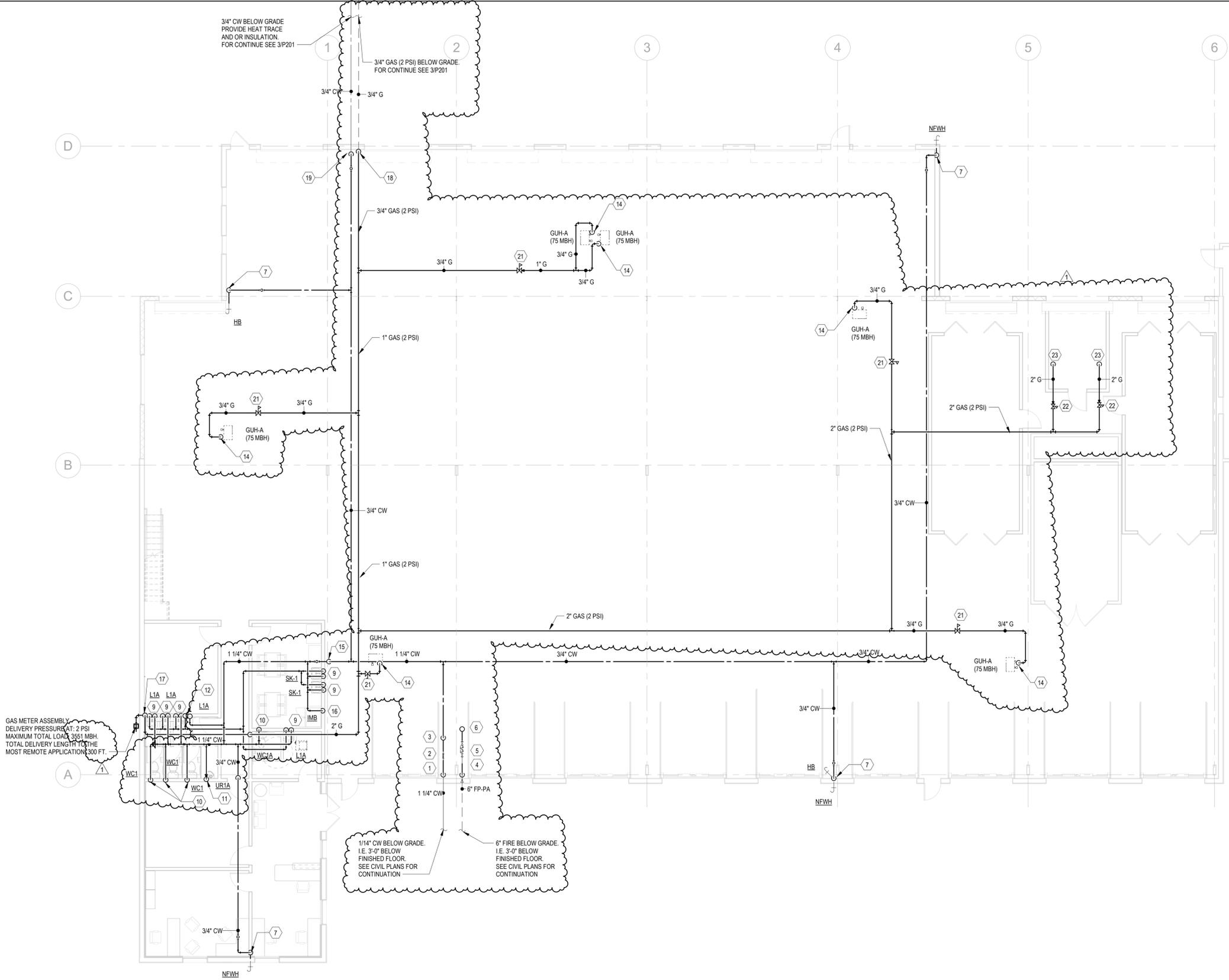
No.	Description	Date

PLUMBING FLOOR PLANS - SAN & VENT
SHEET NAME:

P101
SHEET NUMBER

3/4" CW BELOW GRADE
PROVIDE HEAT TRACE
AND/OR INSULATION.
FOR CONTINUE SEE 3/P201

3/4" GAS (2 PSI) BELOW GRADE
FOR CONTINUE SEE 3/P201



GAS METER ASSEMBLY
DELIVERY PRESSURE AT 2 PSI
MAXIMUM TOTAL LOAD 3551 MBH
TOTAL DELIVERY LENGTH TO THE
MOST REMOTE APPLICATION 300 FT.

1/4" CW BELOW GRADE
I.E. 3'-0" BELOW
FINISHED FLOOR
SEE CIVIL PLANS FOR
CONTINUATION

6" FIRE BELOW GRADE
I.E. 3'-0" BELOW
FINISHED FLOOR.
SEE CIVIL PLANS FOR
CONTINUATION

1 Plumbing Floor Plan-01-DOM Water
1/8" = 1'-0"



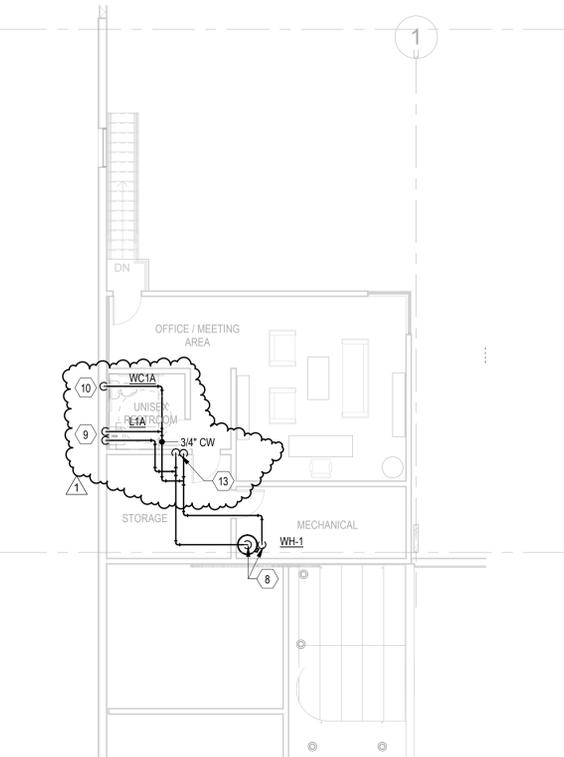
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ARCHITECT INFORMATION:
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ARCHITECT'S SEAL:



- KEYNOTES**
- 1 1 1/4" CW DN TO BELOW FLOOR.
 - 2 1 1/4" RPZA, MOUNT PRV ON ABOVE.
 - 3 1 1/4" CW UP TO ABOVE CEILING.
 - 4 6" FIRE DN TO BELOW FLOOR.
 - 5 6" FIRE DCDA.
 - 6 FIRE RISER. SEE SPRINKLER SYSTEM PLANS FOR CONTINUATION.
 - 7 3/4" CW DN.
 - 8 1" H&CW DN TO WATER HEATER (WH-1).
 - 9 1/2" H&CW DN.
 - 10 1/2" CW DN.
 - 11 3/4" CW DN TO URINAL.
 - 12 1" HW AND 1" CW UP.
 - 13 1" HW AND 1" CW DN TO FLOOR BELOW.
 - 14 3/4" GAS DN TO CONNECT TO GUH-A. SEE GAS CONNECTION DETAIL 4/P001.
 - 15 2" CW DROP.
 - 16 1/2" CW DN.
 - 17 2" GAS (2 PSI) DN.
 - 18 3/4" GAS (2 PSI) DN TO BELOW FLOOR.
 - 19 3/4" CW DN TO BELOW FLOOR.
 - 20 3/4" GAS REGULATOR.
 - 21 1 1/2" GAS REGULATOR.
 - 22 2" GAS DN TO CONNECT TO PAINT BOOTH WITH SHUT OFF VALVE AND DIRT LEG ON VERTICAL PIPE. REFER TO BOOTH A AND OR B DESIGNS GLOBAL FINISHING SOLUTION DRAWING SHEET 03.
 - 23



2 Plumbing Floor Plan-02-DOM Water
1/8" = 1'-0"

AUTO BODY SHOP RENOVATION - BLDG 100
802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

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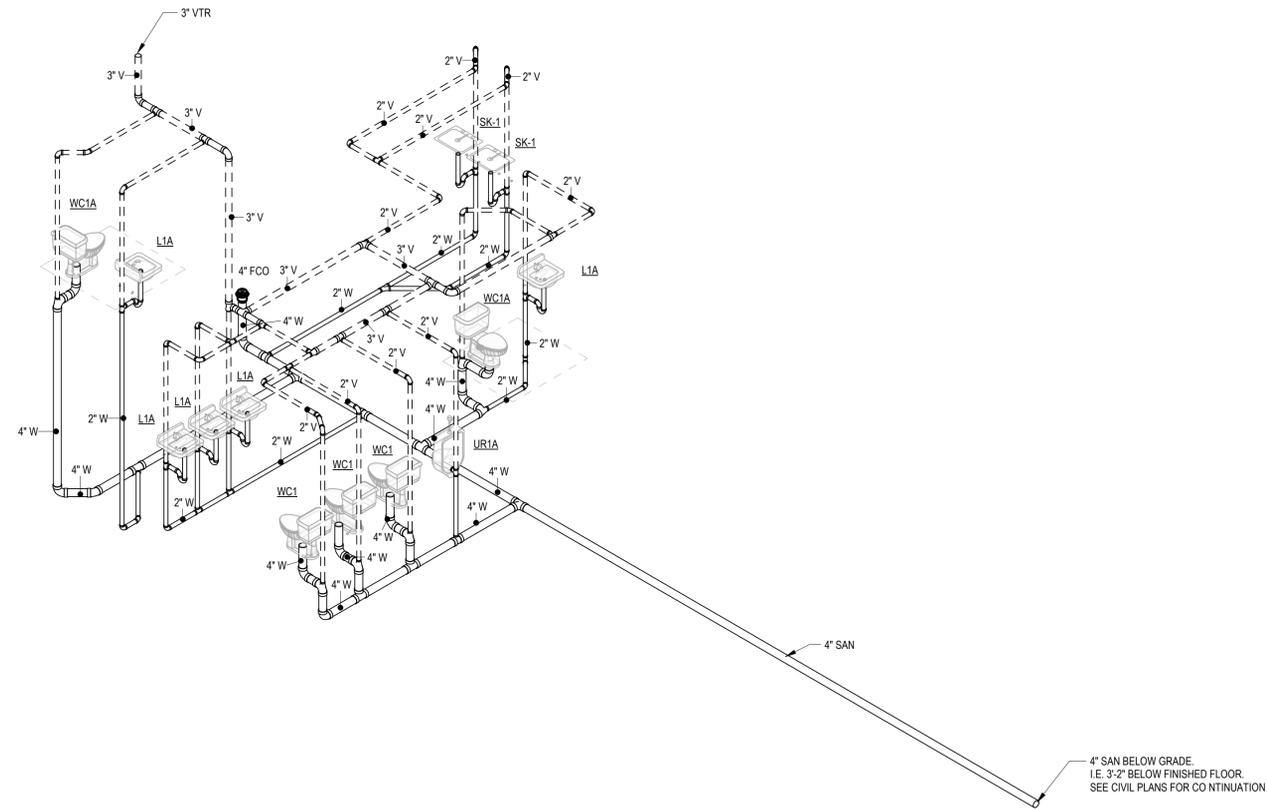
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

PLUMBING PLANS-DOM WATER

SHEET NAME:

P201

SHEET NUMBER



1 S.W.&V RISER DIAGRAM
 P301 NOT TO SCALE

AUTO BODY SHOP RENOVATION - BLDG 100
 802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

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SWV RISER DIAGRAMS

SHEET NAME:

P301
 SHEET NUMBER



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ARCHITECT'S SEAL:



AUTO BODY SHOP RENOVATION - BLDG 100
802 SMYRNA HILL DRIVE, SMYRNA, GA 30082

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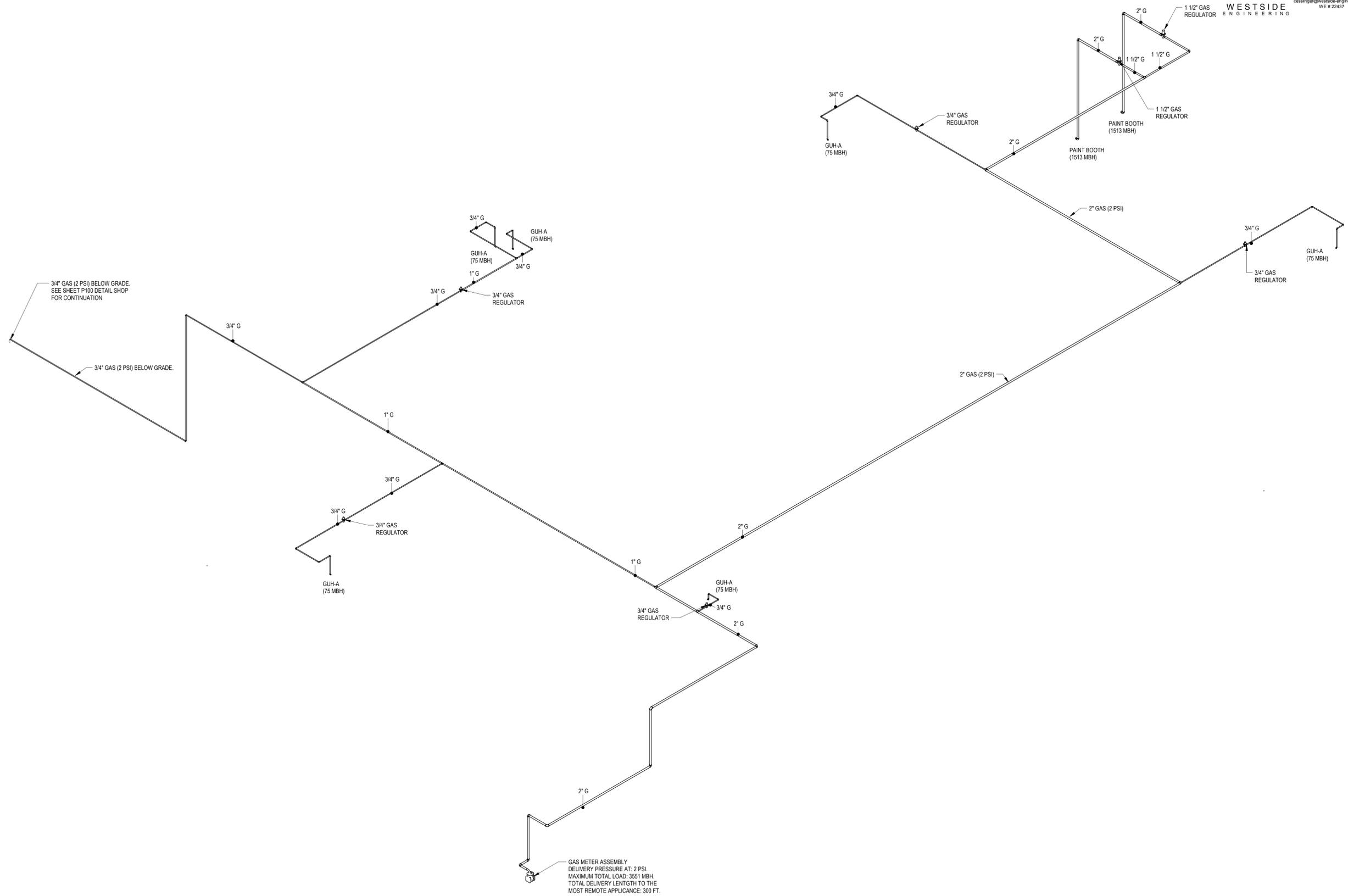
No.	Description	Date
1	REVIEW COMMENTS 1	11/10/2023

NATURAL GAS RISER DIAGRAM

SHEET NAME:

P303

SHEET NUMBER



GAS METER ASSEMBLY
DELIVERY PRESSURE AT: 2 PSI.
MAXIMUM TOTAL LOAD: 3551 MBH.
TOTAL DELIVERY LENGTH TO THE
MOST REMOTE APPLIANCE: 300 FT.

1 NATURAL GAS RISER DIAGRAM
P303 NOT TO SCALE

3/4" GAS (2 PSI) BELOW GRADE.
SEE SHEET P100 DETAIL SHOP
FOR CONTINUATION

3/4" GAS (2 PSI) BELOW GRADE.