# FAYETTE COUNTY FIRE STATION NO. 2 1330 HWY. 92 NORTH FAYETTEVILLE, GA 30214

# 09.27.18 FOR BID

CIVIL

## OWNER

FAYETTE COUNTY 140 STONEWALL AVE WEST FAYETTEVILLE, GA 30214 PHONE: 770.305.5174 CONTACT: DAVID SCARBROUGH DAVIDS@FAYETTECOUNTYGA.GOV

PARAMOUNT ENGINEERING, LLC 11 EAST BROAD ST. NEWNAN, GA 30263 770.473.9576 CONTACT: GEORGE HARPER, P.E. GEORGE@PARAMOUNTENGINEERING.COM

## **GENERAL NOTES**

THE GC SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND CONDITIONS OF CONTRACT DOCUMENTS PRIOR TO ORDERING OF MATERIALS AND PROCEEDING WITH THE WORK. THE GC IS TO NOTIFY THE ARCHITECT OF ALL DISCREPANCIES AND QUESTIONS AND OBTAIN REQUIRED CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

2. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN.

ALL PLUMBING CHASES ARE TO BE VENTED INTO SOFFITS WHERE POSSIBLE AND REQUIRED WHERE UNVENTED SOFFITS ARE INDICATED, REFER TO ELEVATIONS FOR LOCATIONS.

4. GC SHALL PROVIDE AND INSTALL EQUIPMENT AND/OR APPLIANCES SPECIFIED UNLESS OTHERWISE NOTED. GC SHALL PROVIDE INSTALLATION OF OWNER FURNISHED EQUIPMENT AND/OR APPLIANCES WHERE DESIGNATED. GC TO VERIFY WITH OWNER ALL PLUMBING AND ELEC. REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT AND/OR APPLIANCES.

5. GC TO UNDERCUT DOORS AS REQUIRED FOR FLOOR FINISHES, BUT NO MORE THAN CODE ALLOWS FOR RATING REQUIREMENTS. VERIFY ALL UNDERCUT LOCATIONS WITH ANY NOTED REQUIREMENTS PER MECHANICAL DRAWINGS.

6. PROVIDE BRACING ABOVE GLAZED OPENING FRAMES, CEILING HEIGHT PARTITIONS WHEN LONG UNBRACED LENGTHS OCCUR AND AT ALL DOORS AND GLAZED OPENING JAMBS AND MULLIONS IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.

. FLOOR TOLERANCE: IN LAYING OUT AND DETAILING THE WORK TO BE COMPLETED, CONSIDERATION SHALL BE GIVEN TO VARIATIONS IN THE FLOOR LEVELNESS RESULTING FROM CONSTRUCTION QUALITY AND LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATIONS SHALL BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES. ALIGNMENT OF DOOR HEADS AND OTHER HORIZONTAL ELEMENTS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE.

8. ALL WOOD USED AS STUDS, BLOCKING, OR BRACING SHALL BE FIRE TREATED AS REQUIRED BY CODE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY BLOCKING TO ACCOMMODATE INTERIOR FINISHES AND EQUIPMENT AS DESCRIBED IN THE DOCUMENTS.

9. "TYPICAL" MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.

10. ALL HEIGHTS FOR HANDICAP ELEMENTS ARE TO BE IN ACCORDANCE WITH THE ADA FOR MAKING FACILITIES ACCESSIBLE AND USABLE FOR PHYSICALLY HANDICAPPED PEOPLE. THE GC IS RESPONSIBLE FOR COORDINATION AND PROPER INSTALLATION OF ALL RELATED ELEMENTS.

11. FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT MAY BE REQUIRED. ACCESS PANELS SHALL BE EQUAL IN FIRE RATING TO SURFACE IN WHICH THEY OCCUR. REFER TO CONSULTANT DRAWINGS FOR ANY SPECIFIC REQUIREMENTS. FINAL LOCATIONS OF PANELS NOT SHOWN ON ARCHITECTURAL CEILING PLANS SHALL BE APPROVED BY THE ARCHITECT.

12. PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD SURFACES AS REQUIRED BY MANUFACTURERS SPECIFICATIONS.

13. ALL EXTERIOR LUMBER EXPOSED TO MOISTURE SHALL BE PRESSURE TREATED, UNLESS OTHERWISE SPECIFIED ON PLANS.

14. THE CONTRACTOR IS RESPONSIBLE FOR ALL MECHANICAL AND ELECTRICAL ITEMS INDICATED ON ALL CONSTRUCTION DOCUMENTS. ALL ITEMS INDICATED ON ANY DRAWING ARE TO BE INCLUDED AS A COMPLETE SYSTEM.

15. WHERE ELECTRICAL, MECHANICAL, AND/OR OTHER WALL MOUNTED DEVICES OCCUR AT THE SAME LOCATION BUT AT DIFFERENT HEIGHTS, THEY SHALL BE CENTERED ABOVE EACH OTHER.

16. OWNER HAS FINAL APPROVAL OF BUILDING MATERIALS, FINISH CHOICES, AND FIXTURE AND APPLIANCE CHOICES.

17. CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING AND FOLLOWING MANUFACTURERS SPECIFICATIONS FOR ALL EQUIPMENT, MATERIALS, AND CONSTRUCTION SYSTEMS.

18. CONTRACTOR WILL BE RESPONSIBLE FOR ALL TEMPORARY STRUCTURE FOR WEATHERPROOFING, SECURITY, PRIVACY, AND SUPPORT.

19. ALL ADVERSE CONDITIONS OF SITE AND BUILDING DISCOVERED DURING WORK MUST BE REPORTED TO THE OWNER/ARCHITECT IMMEDIATELY.

## ARCHITECT

K.A. OLDHAM DESIGN, INC. 75 JACKSON ST. SUITE 401 NEWNAN, GA 30263 PHONE: 770.683.9170 FAX: 770.683.9171 CONTACT: CHRIS LOWE CLOWE@KAOD.COM

## STRUCTURAL

WILLETT ENGINEERING CO. 3528 HABERSHAM AT NORTHLAKE TUCKER, GA 30084 PHONE: 770.270.9484 CONTACT: DAN VINES, P.E. DVINES@WILLETTENGINEERING.COM

## **GENERAL NOTES (CONT.)**

19. CONTRACTOR WILL BE RESPONSIBLE FOR THE DISPOSABLE OF ALL CONSTRUCTION DEBRIS

20. ALL MATERIALS STORED ON SITE MUST BE SECURED BY CONTRACTOR.

21. ALL MATERIALS STORED OFF SITE SHALL BE STORED IN A BONDED WAREHOUSE.

22. CONTRACTOR MUST LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

AND/OR DEMOLITION. 23. ALL UTILITIES AND EQUIPMENT WILL BE TESTED AND PROVED IN WORKING ORDER BEFORE

JOB IS DEEMED COMPLETE. 24. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING FEDERAL,

STATE, AND LOCAL CODES

25. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND/OR CIVIL INFORMATION NOT INCLUDED IN THE FINAL DRAWINGS.

26. PARTITIONS ARE DIMENSIONED TO FACE OF STUD UNLESS NOTED OTHERWISE. DIMENSIONS SHOWN ON DRAWINGS SHALL BE CONSIDERED CRITICAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF DEVIATIONS IN THE PLACEMENT OF WORK PER THESE DIMENSIONS.

27. SEPARATE DISSIMILAR METALS AS DIRECTED TO PREVENT GALVANIC ACTION

28. THE DRAWINGS ILLUSTRATE GENERAL WORK SCOPE REQUIREMENTS AND DO NOT ELABORATE ON INSTALLATION TECHNIQUES. WORK PERFORMED SHALL MEET OR EXCEED INDUSTRY STANDARDS, BE PERFORMED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS, AND SHALL CONFORM TO ALL APPLICABLE BUILDING CODES.

29. REFER TO INDIVIDUAL SHEETS FOR NOTES RELATED TO SPECIFIC PARTS OF THE WORK.

30. COORDINATE ALL PLACEMENT AND SIZING OF STEEL MEMBERS & STRUCTURAL COMPONENTS W/ STRUCTURAL DRAWINGS.

## **ABBREVIATIONS**

ACT ADA AFF ALUM ASST AUTO	ACOUSTICAL CEILING TILE AMERICAN DISABILITIES ACT ABOVE FINISH FLOOR ALUMINUM ASSISTANT AUTOMATIC	ea elec elev eos eq ew exist	EACH ELECTRIC(AL) ELEVATION EDGE OF SLAB EQUAL EACH WAY EXISTING
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COORD CMU	COORDINATE CONCRETE MASONRY UNIT	GA GALV GC	GAUGE GALVANIZED
DBL DIA DIM	DOUBLE DIAMETER DIMENSION	GWB	GENERAL CONTR GYSPUM WALL BO
DS DWG	DOWNSPOUT DRAWING	WD WWF	WOOD WELDED WIRE FAI

## **MECHANICAL/PLUMBING**

GEORGE ENGINEERING ASSOCIATES, LLC 405 MILLARD FARMER ROAD SUITE B NEWNAN, GA 30263 PHONE: 770.252.4669 CONTACT: MARTIN S. GEORGE, PE MSG@GEA-LLC.COM

## ELECTRICAL

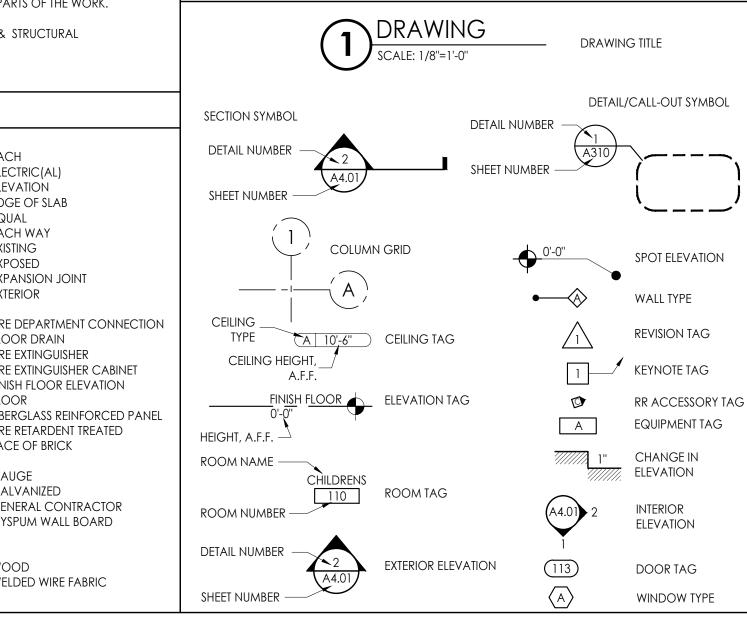
WWF

WELDED WIRE FABRIC

MADDOX GROUP INC. 9309 SEMINOLE ROAD JONESBORO, GA 30236 PHONE: 770.471.9076 CONTACT: ROBERT M. MADDOX, P.E. MADDOXGROUP@COMCAST.NET

### **ABBREVIATIONS** HCP HANDICAPPED PLASTIC LAMINATE PLAM HМ HOLLOW METAL PL PLATE PLY PLYWOOD INSULATION PRESSURE TREATED INT INTERIOR PTD PAINTED JBE JOIST BEARING ELEVATION RD **ROOF DRAIN** REQUIRED JOINT req REINF REINFORCED LAV RO ROUGH OPENING LAVATORY SOUND ATTENUATION BATTS MAX MAXIMUM SAB MECH MECHANICAL SCW SOLID CORE WOOD MFR MANUFACTURER SIM SIMILAR MIN SOG MINIMUM SLAB ON GRADE MTL METAL STN STAIN STRUCTURAL STRUCT NOT APPLICABLE NA NFWH NON-FREEZE WALL HYDRANT ΤO TOP OF NIC TYP TYPICAL NOT IN CONTRACT NOM NOMINAL NTS NOT TO SCALE UNLESS NOTED OTHERWISE UNO OC ON CENTER VERT VERTICAL OPP OPPOSITE VERIFY IN FIELD VIF OPT OPTION (AL) ORD OVERFLOW ROOF DRAIN WOOD WD

## **ARCHITECTURAL SYMBOLS**



DRAV	VING INDEX
SHEET #	SHEET NAME
	TITLE
T001	TITLE SHEET AND PROJECT INFORMATION
UL101	UL FIRE RESISTANCE RATINGS
	CIVIL
C1	COVER SHEET
C2	EX. CONDITIONS/DEMOLITION PLAN
C3 C4	SITE PLAN GRADING & DRAINAGE PLAN
C5	
C6 C7	INITIAL PERIMETERS & PC PLAN INTERMEDIATES & PC PLAN
C8 C9	FINALS & PC PLAN
C10	EROSION CONTROL DETAILS WATER QUALITY POND PLAN & DETAILS
C11 C12	NPDES NOTES CONSTRUCTION DETAILS
C12 C13	WATER SYSTEM DETAILS
LS1	LANDSCAPE PLAN
	STRUCTURAL
S001	GENERAL NOTES
\$101 \$201	
S201 S202	SECTIONS AND DETAILS SECTIONS AND DETAILS
S203	SECTIONS AND DETAILS
	ARCHITECTURAL
A001	ARCHITECTURAL SITE PLAN
A100 A101	LIFE SAFETY PLAN FLOOR PLAN
A102	COLUMN PLAN
A103 A104	WALL PARTITIONS & PROJECT STANDARDS MILLWORK & CEILING DETAILS
A105	ROOF PLAN
A201	EXTERIOR BUILDING ELEVATIONS
A202	EXTERIOR BUILDING ELEVATIONS
A301	BUILDING SECTIONS
A302 A303	BUILDING SECTIONS BUILDING SECTIONS
A401 A402	PLUMBING ACCESSORIES & RESTROOM PLAN DETAILS KITCHEN & LAUNDRY ROOM PLAN DETAILS
A403	
A404	DOOR & WINDOW SCHEDULE / DETAILS
A501 A502	WALL SECTIONS WALL SECTIONS
A503	WALL SECTIONS WALL SECTIONS
A504 A505	SECTION DETAILS WALL SECTIONS
A506	ENTRY DETAILS
A507	FOUR FOLD DOOR GENERAL LAYOUT
A601	REFLECTED CEILING PLAN
A701	DETAIL FLOOR PLAN
A702 A703	FLOOR FINISH PLAN FURNITURE PLAN
A703	INTERIOR SCHEDULES
A705 A706	INTERIOR ELEVATIONS INTERIOR ELEVATIONS
A707	INTERIOR ELEVATIONS
A708 A709	INTERIOR ELEVATIONS INTERIOR ELEVATIONS
A710	EXTERIOR FINISHES
A711	EXTERIOR FINISHES
	MECHANICAL
M101	HVAC SPECIFICATIONS
M102	HVAC DETAILS & SCHEDULES
M201	FLOOR PLAN - HVAC
	ELECTRICAL
E- 0.1 E - 02	ELECTRICAL CRITERIA ELECTRICAL RISER & SCHEDULES
E - 03	ELECTRICAL RISER & SCHEDULES
E - 04 E - 10	ELECTRICAL GEN. SET CRITERIA & DETAILS ELECTRICAL & LIGHTING PLAN
E - 11	ELECTRICAL EQUIPMENT PLAN
E - 12 E - 20	ELECTRICAL OUTLET PLAN LIGHTING PLAN
E - 21	LIGHTING PLAN

# PLUMBING PLUMBING SCHEDULES, DETAILS & SPECIFICATIONS

P101

P201

P202

P203

P204

P301

FLOOR PLAN - SANITARY PIPING
FLOOR PLAN - WATER PIPING
FLOOR PLAN - GAS PIPING
FLOOR PLAN - COMPRESSED AIR PIPING
SANITARY PIPING RISER DIAGRAM

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<text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	<ol> <li>Furring Cl are secured to leg of the furr</li> <li>Gypsum B</li> </ol>	thannels — Hat shaped, m to each girt with 3/8 in. (mi rring channel. Board* — Any 1/2 in. thi	inimum 25 MSG galv steel, approx mately 2-5/3 i in) long self-drilling pan head sheet steel type scr ick UL Classified Gypsum Board that is eligibl	n wide, 7/8 in. ceep, spaced 24 in. OC perpendic ews. Two screws are used at each fastening locat e for use in Design No. X515. Any 5/8 in. th	ion, one through ead
<text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	wall. Any 5/8 nead gypsum gypsum board gypsum board board. Fourth 1-1/2 in. wide	8 in. or 1/2 in. thick gypsun n board screws spaced 24 in rd screws spaced 12 in. OC. rd screws spaced 12 in. OC. rd screws spaced 12 in. OC. n layer, when usec, attache e, fabricated from 0.020 in	n bcard applied norizontally or vertically. First lay n. OC. vertically and horizontally. Second layer at: vertically and 24 in. OC. horizontally. Third layer vertically and 24 in. OC. horizontally, 1-7/8 in. It ed to steel strapping using 1 in. long (min) bugle 1 th ck (25 gauga) galv steel. Steel strapping lcca	er attached to furring channels, Item 4, using 1 in tached to furring channels using 1-5/8 in. long Ty , when used, attached to furring channels using ong for 1/2 in. gypsum board and 2-1/4 in. long f nead drywall scraws spaced 8 in. CC. Steel strapp ted vertically and attached to third layer of gypsu	<ul> <li>n. long Type S bugle rpe S bugle head rype S bugle head or 5/8 in. gypsum bing from flat stock, im board at each ver</li> </ul>
<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	successive lay	yers are applied in the sam	re orientation. ' <u>lew Classification)</u> — CKNX.R25370	The horizontal or vertical joints of the wallboard a	re cffset 24 in. wher
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<text><text><list-item><text><text><text></text></text></text></list-item></text></text>	UNITED STA USG BORAL USG NEXICC 5A. Gypsum NATIONAL G 5B. Gypsum PABCO BUIL 5C. Wall and and secured a PABCO BUIL 5D. Gypsum n. for every : p. layer atte	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif Board* – (As ar alternat GYPSUM CO – SoundBrea Board* – (As ar alternat LDING PRODUCTS L L C, d Partition Facings and A as describec in Item 5. LDING PRODUCTS L L C, Board* – (As an alternat single layer of 5/81, mg).	<u>Classification</u> ) – CKNX.R27517 <u>lassification</u> ) – CKNX.R1319 <u>classification</u> ) – CKNX.R38438 <u>lcation</u> ] – CKNX.R16689 le to Item 5) - Fastened as described in Item 5 5, ik X <sup>2</sup> Type X Gypsum Board le to Items 5 and 5A) – Nominal 5/8 in. thick, 4 f <b>DBA PABCO GYPSUM</b> – Type QuietRock ES <b>lccessories*</b> – (As an alternate to Items 5 throo <b>DBA PABCO GYPSUM</b> – Type QuietRock 527 te to 5/6 in. Type FSW in Item 5) - Nom. 5/16 n.	/8 in. thick, 4 ft. wide, paper surfaced, applied vet t wide panels, applied vertically only and secured ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon to be same side need not be stagaged. Incert by	as described in Item , applied vertically or tally. Two layers of 5
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Image: Springer	UNITED STA USG BORAL USG NEXICC 5A. Gypsum NATIONAL G 5B. Gypsum PABCO BUIL 5D. Gypsum 10. 10. layer attac NATIONAL G 5. Gypsum 10.	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O 5 A DE C V (View Classif Board* – (As an alternat GYPSUM CO – SoundBrea Board* – (As an alternat LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A single ayer of 5/8 in, gyps described with fractmes, as des GYPSUM CO — Type FSW Board* – See foollowing ta ontally or vertically. First la	Classification) – CKNX.R27517 Classification) – CKNX.R1319 (classification) – CKNX.R13438 Cation) – CKNX.R16C89 (contexponent of the second of the secon	/8 in. thick, 4 ft. wide, paper surfaced, applied vettically only and secured t wide panels, applied vertically only and secured ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon t the same side need not be staggered. Inner lay each double 5/16 in. layer attached per Item 5. Any exterior grade 5/8 in thick gypsum wallboard (min) sef-drilling bugle-head sheet steel type g	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws
i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i         i       i       i       i         i       i       i       i       i         i       i       i       i       i       i         i <td>UNITED STA USG BORAL USG NEXICO 5A. Gypsum NATIONAL G 5B. Gypsum PABCO BUIL 5D. Gypsum n. for every i n. layer attac NATIONAL G 5. Gypsum B</td> <td>UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O 5 A DE C V (View Classif Board* – (As an alternat GYPSUM CO – SoundBrea Board* – (As an alternat LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A single ayer of 5/8 in, gyps described with fractmes, as des GYPSUM CO — Type FSW Board* – See foollowing ta ontally or vertically. First la</td> <td>Classification) – CKNX.R27517 Classification) – CKNX.R1319 (classification) – CKNX.R13438 ication) – CKNX.R16689 ice to Item 5) - Fastened as described in Item 5 5, ik X2 Type X Gypsum Board ice to Items 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PABCO GYPSUM – Type QuietRock 52 Coccessories* – (As an alternate to Items 5 throw DBA PABCO GYPSUM – Type QuietRock 527 te to 5/8 in. Type FSW in Item 5) - Nom. 5/16 n. um board described in Item 5. Hortconta joints o icrited in tem 5, spaced 24 n. OC. Outer layer of ble for number of layers on exterior face of wall , year attached to girts, Item 1, using 1-1/4 in. long syser, when used, attached to girts using 1.5/8 in, notal or vertical joints of the gypsum board are of Fire Resistance from Both</td> <td>/8 in. thick, 4 ft. wide, paper surfaced, applied ve t wide panels, applied vertically only and securad igh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon to be same side need not be staggared. Inner isy each double 5/16 in. layer attached per Item 5. Any exterior grade 5/8 in thick gypsum wallboard (min) sef-drilling bugle-head sheet steel type g long (min) self-drilling bugle-head sheet steel type g Sides of Wall</td> <td>as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws</td>	UNITED STA USG BORAL USG NEXICO 5A. Gypsum NATIONAL G 5B. Gypsum PABCO BUIL 5D. Gypsum n. for every i n. layer attac NATIONAL G 5. Gypsum B	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O 5 A DE C V (View Classif Board* – (As an alternat GYPSUM CO – SoundBrea Board* – (As an alternat LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A single ayer of 5/8 in, gyps described with fractmes, as des GYPSUM CO — Type FSW Board* – See foollowing ta ontally or vertically. First la	Classification) – CKNX.R27517 Classification) – CKNX.R1319 (classification) – CKNX.R13438 ication) – CKNX.R16689 ice to Item 5) - Fastened as described in Item 5 5, ik X2 Type X Gypsum Board ice to Items 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PABCO GYPSUM – Type QuietRock 52 Coccessories* – (As an alternate to Items 5 throw DBA PABCO GYPSUM – Type QuietRock 527 te to 5/8 in. Type FSW in Item 5) - Nom. 5/16 n. um board described in Item 5. Hortconta joints o icrited in tem 5, spaced 24 n. OC. Outer layer of ble for number of layers on exterior face of wall , year attached to girts, Item 1, using 1-1/4 in. long syser, when used, attached to girts using 1.5/8 in, notal or vertical joints of the gypsum board are of Fire Resistance from Both	/8 in. thick, 4 ft. wide, paper surfaced, applied ve t wide panels, applied vertically only and securad igh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon to be same side need not be staggared. Inner isy each double 5/16 in. layer attached per Item 5. Any exterior grade 5/8 in thick gypsum wallboard (min) sef-drilling bugle-head sheet steel type g long (min) self-drilling bugle-head sheet steel type g Sides of Wall	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws
Image       Grpsum Bond Interview Face       0         Image       1       0         Image       0       0         Image       0       0         Image       0       0         Image       0       0       0       0         Image       0       0       0       0       0	UNITED STA USG BORAL USG NEXICC 5A. GYPSUM NATIONAL C 5B. GYPSUM PABCO BUIL 5C. Wall and and secured a PABCO BUIL 5D. GYPSUM 5 1. Jayar attac NATIONAL C 5. GYPSUM 5	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE CV (View Classif GYPSUM CO – Soundbrea Board* – (As an alternat GYPSUM CO – Soundbrea Board* – (As an alternat as describer in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as describer in Item 5. LDING PRODUCTS L L C, Hond* – (As an alternat single layer of 5/8 in, gyps ched with fasteners, as des GYPSUM CO – Type FSW Board* – See following ta ontally or vertically. First la CC. horizontally. Second I CC. horizontally. The horiz: Rating 1	Classification) – CKNX.R27517 Classification) – CKNX.R1319 (classification) – CKNX.R1319 (classification) – CKNX.R16689 (classification) – CKNX.R16689 (c	/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and secural twide panels, applied vertically only and secural igh 5C) — Nominal 5/8 in. thick, 4 ft wide panels         thick gypsum panels applied vertically only and secural the same side need not be staggared. Inner by each double 5/16 in. layer attached per Item 5.         Any exterior grade 5/8 in thick gypsum wallboard (rimi) sef-drilling bugle-head sheet steel type g         Iong (min) seff-drilling bugle-head sheet steel type g	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws
Image: A stand of the application is the application is the application is supplied with the product. Applied to completely fill the application is supplied with the product. The minimum dry density shall be 4.30 bayrd?         Image: A stand of the application is the application is the application is supplied with the product. The minimum dry density shall be 4.30 bayrd?         Image: A stand of the application is the application is the application is supplied with the product. The minimum dry density shall be 4.30 bayrd?         Image: A stand of the application is the application is the application is supplied with the product. The minimum dry density shall be 4.30 bayrd?         Image: A stand of the application is the application in the application is the application is supplied with the product. Applied to completely fill the enclosed cavity. Supplied with the application is supplied with the application only.         Image: A stand application is the application only.         Image: A stand application is the applicati	UNITED STA USG BORAL USG NEXICO 5A. Gypsum NATIONAL O 5B. Gypsum PABCO BUIL 5D. Gypsum n. for party n. layer attac NATIONAL O 5. Gypsum B	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif Board* – (As ar alternat GYPSUM CO – SoundBrea Board* – (As ar alternat LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C	Classification) – CKNX.R27517 lassification) – CKNX.R1319 / Classification) – CKNX.R1319 / classification) – CKNX.R16689 lication) – CKNX.R16689 lice to Item 5) - Fastened as described in Item 5 5, ik X2 Type X Gypsum Board lice to Items 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PABCO GYPSUM – Type QuietRock 52 kccessories* – (As an alternate to Items 5 throw DBA PABCO GYPSUM – Type QuietRock 527 lice to 5/8 in. Type FSW in Item 5) - Nom. 5/16 n. um board described in Item 5. Hortconta joints o icrited in tem 5, spaced 24 n. OC. Outer layer of ble for number of layers on exterior face of wall . year, when used, attached to girts using 1-5/8 in, notal or vertical joints of the gypsum board are of Fire Resistance from Both Layers 5/8 In. Layers 5/8 In. 1 2 3	/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and secural twide panels, applied vertically only and secural igh 5C) — Nominal 5/8 in. thick, 4 ft wide panels         thick gypsum panels applied vertically only and secural the same side need not be staggared. Inner by each double 5/16 in. layer attached per Item 5.         Any exterior grade 5/8 in thick gypsum wallboard (rimi) sef-drilling bugle-head sheet steel type g         Iong (min) seff-drilling bugle-head sheet steel type g	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws
Any 1/2 in. thick UL Classified Gypsum Boart that is eligible for use in Design No. X515. Any YB in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. See Gypsum Board (CKNK) category for names of Classified companies.         1. Column Protection – (not srown) – Horizontal wall girts, Item :, are attached to vertical structural steel columns. See Column Design Nos. X524 and X16 or protection at columns.         8. Batts and Blankets* – (optonal, not shown) – Glass Fiber Batts placed in the cavities of exterior wells.         See Batts and Blankets* (BZZ) – tategory for names of manufactures.         B. Fiber, Sprayed* – As an alternate to Batts and Blankets (Item 9) – (100% Borate Formulation) – Spray applied cellulose material. The fiber is applied water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product.         U S GREENFIBER LL C – INS735& INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.         Be, Fiber, Sprayed* – As an alternate to Batts and Blankets (Item 3) and. Item 8A – Spray applied cellulose insulation material. The fiber is applied with water or completely fill the enclosed cavity. Minimum dry density 4.3 pounds per cubic ft.         NU-WOOL CO INC – Cellulose Insulation         8c. Fiber, Sprayed* – As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity. Minimum dry density 4.3 pounds per cubic ft.         NU-WOOL CO INC – Cellulose Insulation       INTERNATIONAL CELLULOSE CORP – Celbar-RL       9. Joint Tape and Compound – (not shown, optional) – Vinyl or casein	UNITED STA USG BORAL USG MEXICO 5A. Gypsum NATIONAL O 5B. Gypsum PABCO BUL 5D. Gypsum n. Gypsum N. Gypsum N. Jayar attac NATIONAL O 5. Gypsum B	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif GYPSUM CO – SoundBread Board* – (As an alternat GYPSUM CO – SoundBread as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L C, d Partition Facings and A as described in Item 5. 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Gypsum Board Thereor Insid	/8 in. thick, 4 ft. wide, paper surfaced, applied ve t wide panels, applied vertically only and secured ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon t be same side need not be staggered. Inner lay each double 5/16 in. layer attached per Item 5. hyperterior grade 5/8 in thick gypsum valiboard (nrin) self-drilling bugle-head sheet steel type g long (min) self-drilling bugle-head sheet steel type g set 24 in. If 2 successive layers are applied in th Sides of Wall Sides of Wall 2 1 2 2 1 2 3 3 4 4 4 5 5/8 1. 5 5/8 1. 5/8 1. 5/8 5/8 1. 5/8/8 1. 5/7	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws
for protection of columns. 8. Batts and Blankets* (egzz) – category for names of manufacturers. 8. Fiber, Sprayed* – As an alternate to Batts and Blankets (item 3) – (100% Borate Formulation) – Spray applied cellulose material. The fiber is applied wither to completely fill the enclosed cavity in accordance with the application instructions supplied with the protection of 1. Signayed* – As an alternate to Batts and Blankets (item 3) – (100% Borate Formulation) – Spray applied cellulose material. The fiber is applied with material containers and applied method. The fiber is applied with water or achieves at a nominal dry density of 3.5 light/, in accordance with the application instruction supplied with the protect. U S GREENFIBER L L C – INS7358. INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only. Bit. Fiber, Sprayed* – As an alternate to Batts and Blankets (item 3) and Item 8A - Spray applied cellulose insulation material. The fiber is applied with water or accordance with the application instructions supplied with the product. NU-WOOL CO INC – Cellulose Insulation Bit. Fiber, Sprayed* – As an alternate to Batts and Blankets (item 8) and Item 8A - Spray applied cellulose insulation material. The fiber is applied with water to completely fill the enclosed cavity. Minimum dry density 4.3 pounds per cubic ft. NU-WOOL CO INC – Cellulose Insulation Bit. Fiber, Sprayed* – As an alternate to Batts and Blankets (item 8) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity. In accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft <sup>2</sup> . INTERNATIONAL CELLULOSE CORP – Celbar-RL 9. Joint Tape and Compound – (not shown, optional) – Vinyl or casein, dry or premixed joint compound applied in two casts to joints and screw heads of larger of grapus back. Apper or glass fiber tape encleded in first larger of compound over all joints. * Indicates such products shal	UNITED STA USG BORAL USG NEXICC 5A. Gypsum NATIONAL C 5B. Gypsum PABCO BUIL 5C. Wall and and secured a PABCO BUIL 5D. Gypsum n. for every i n. layer attac NATIONAL C	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif GYPSUM CO – SoundBread Board* – (As an alternat GYPSUM CO – SoundBread as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Board* – (As an alternat single layer of 5/8/in, gyps GYPSUM CO – Type FSW Board* – See following ta ontally or vertically. First la CC horizontally. The horizontally Rating 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Classification) – CKNX.R27517	/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and secured         t wide panels, applied vertically only and secured         ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels         ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels         thick gypsum panels applied vertically or horizon         the same side need not be staggered. Inner by         each double 5/16 in. layer attached per Item 5.         thy exterior grade 5/8 in. thick gypsum wallboard         i (min) self-drilling bugle-head sheet steel type g         i (tayers 5 / 8 In. fg/psam Board (tayers Face         i 1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/: or gypsum sheathin ypsum board screws
water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product.         Alternate Application Method: The fiber is applied without water or achesive at a nominal dry density of 3.5 lb/ft <sup>2</sup> , in accordance with the application instruction supplied with the product.         U S GREENFIBER L L C - IN5735& IN5745 for use with wet or dry application. IN5765LD and IN5770LD are to be used for dry application only.         8b, Fiber, Spraynd <sup>1</sup> - As an alternate to Bists and Blankets (Item 3) and Item 8A - Spray applied cellulose insulation material. The fiber is applied with water d. Applied to completely fill the enclosed cavity. Minimum dry density 4.3 pounds per cubic ft.         NU-WOOL CO INC - Cellulose Insulation         8c. Fiber, Spraynd <sup>4</sup> - As an alternate to Batts and Blankets (Item 8) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity. Minimum dry density 4.3 pounds per cubic ft.         NU-WOOL CO INC - Cellulose Insulation         8c. Fiber, Spraynd <sup>4</sup> - As an alternate to Batts and Blankets (Item 8) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity. In accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft <sup>2</sup> .         INTERNATIONAL CELLUOSE CORP - Celbar-RL         9. Joint Tape and Compound – (not shown, optional) — Vinvi or casein, dry or premxed joint compound applied in two casts to joints and screw heads of layer of gypsum board. Paper or glass fiber tape embedded in first layer of compound over all joints.         * Indicates such products shall bear the UL or cUL Certification Mark for jur	UNITED STA USG BORAL USG NEXICO SA. GYPSUM NATIONAL G SB. GYPSUM SC. Wall and SC. W	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classifi Board* – (As ar alternat GYPSUM CO – SoundBrea Board* – (As ar alternat LDING PRODUCTS L L C, d Partition Facings and A as describes in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as describes in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as describes in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as describes in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as describes in Item 5. LDING PRODUCTS L L C, d Partition Facings and A schemetry of S(N , mg) d C and S(N , Second I C and S(N , Second I) C horizontally. Second I C and S(N , Second I) C horizontally. The horizon C horizontally. The horizon C horizontally. The horizon C horizontally. The horizon C horizontally action (S) Rating 1 2 2 httk UL Classified Gypsum (S01, G12, or U305, Second I) S01, G12, or U305, Second I) S01, G12, or U305, Second I S01, G12, or U305, Second I	Classification) – CKNX.R27517  Lassification) – CKNX.R1319  x Classification) – CKNX.R1319  x classification) – CKNX.R13438  lication) – CKNX.R16C89  te to Item 5) - Fastened as described in Item 5 5, k X <sup>2</sup> Type X Gypsum Board  te to Item 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PABCO GYPSUM – Type QuietRock ES  kccessories* – (As an altemate to Items 5 throu DBA PABCO GYPSUM – Type QuietRock 527  te to 5/8 in. Type FSW in Item 5) - Nom. 5/16 in. um board described in Item 5. Horizonta joints o crited in tem 5, spaced 24 n. OC. Outer layer of ble for number of layers on exterior face of wal. / uyer, when used, attached to girts using 1-5/8 in. ble for number of layers on exterior face of wal. / uyer attached to girts, Item 1, using 1-1/4 in. long  typer attached to girts, Item 1, using 1-1/4 in. long  typer s/8 In. Cypsum Board (Item 5) on Interior Face  Layers 5/8 In. Cypsum Board (Item 5) on Interior Face  3 Layers 5/8 In. Cypsum Board (Item 5) on Interior Face  4 Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc Hat is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No. X515. Boarc that is eligible for use in Design No	/8 in. thick, 4 ft. wide, paper surfaced, applied ve t wide panels, applied vertically only and secured ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon the same side need not be staggered. Inner lay each double 5/16 in. layer attached per Item 5. Vary exterior grade 5/8 in thick gypsum wallboard (rim) self-drilling bugle-head sheet steel type g (rim) self-drilling bugle-head sheet steel type g (tem 6) on Exterior Face 1 2 1 2 4 4 4 4 4 5/8 In. 6 (Sppsum Board (Item 6) on Exterior Face 0 4 4 4 4 4 4 4 4 4 4 4 4 4	as described in Item , applied vertically or tally. Two layers of 5 er of each double 5/ or gypsum sheathin psum board screws pe gypsum board sc e same orientation.
Interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation BC. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosec cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft <sup>2</sup> . INTERNATIONAL CELLULOSE CORP — Celbar-RL 9. Joint Tape and Compound — (not shown, optional) — Vim/ or casein, dry or premixed joint compound applied in two casts to joints and screw heads of layer of gypsun board. Paper or glass fiber tape embedded in first layer of compound over all joints. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), resp. Last Updated on 2017-10-11 Cuestions? Print this page Terms of Jase Page Top	UNITED STA USG BORAL USG BORAL USG MEXICC SA. Gypsum PABCO BUIL SC. Well and and secured a PABCO BUIL SD. Gypsum PABCO BUIL SD. Gypsum SD. Gyps	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif Board* – (As an alternat GYPSUM CO – SoundBrea Board* – (As an alternat LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and J as described in Item 5. LDING PRODUCTS L L C, d Rating 1 2 2 2 3 3 3 4 3 4 4 4 4 4 4 5 4 5 5 5 5 5 5 5	Classification) – CKNX.R27517  Classification) – CKNX.R1319  (classification) – CKNX.R1319  (classification) – CKNX.R13438  Cation) – CKNX.R16C89  te to Item 5) - Fastened as described in Item 5 5, ik X <sup>3</sup> Type X Gypsum Board  te to Item 5) - Fastened as described in Item 5 5, ik X <sup>3</sup> Type X Gypsum Board  te to Item 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PABCO GYPSUM – Type QuietRock ES  tecessories* – (As an altemate to Items 5 throu DBA PABCO GYPSUM – Type QuietRock 527  te to 5/8 in. Typa FSW in Item 5) - Nom. 5/16 in, umboard described in Item 5. Horizonta joints o crited in tem 5, spaced 24 n. OC. Outer layer of ble for number of layers on exterior face of wal. / users 5/8 In. Gypsum Board  tere Resistance from Both  Layers 5/8 In. Gypsum Board  tere Resistance from Insid  Layers 5/8 In. Gypsum Board  tere Resistance from Insid  Layers 5/8 In. Gypsum Board  tere Resistance from Insid  Layers 5/8 In. Gypsum Board  tere Resistance from Insid  Layers 5/8 In. Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  Layers 5/8 In.  Gypsum Board  tere Resistance from Insid  tere Resistance Resistance from Insid  tere Resis	/8 in. thick, 4 ft. wide, paper surfaced, applied vertically orly and secured         t wide panels, applied vertically orly and secured         igh 5C) — Nominal 5/8 in. thick, 4 ft wide panels         igh 5C) — Nominal 5/8 in. thick, 4 ft wide panels         thick gypsum panels applied vertically or horizon         the same side need not be staggered. Inner lay         (inn) self-drilling bugle-head sheet steel type g         Sides of Wall         Layers 5/8 In.         Gypsum Board (Item 6) on         Exterior Face         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2	as described in Item , applied vertically or tally. Two layers of 1 er of each double 5/ or gypsum sheethin ypsum board screws pe gypsum board screws pe gypsum board screws as a same orientation.
BC. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the ercloses cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft <sup>2</sup> .     INTERNATIONAL CELLULOSE CORP — Celbar-RL     9. Joint Tape and Compound — (not shown, optional) — Vinvi or case in, dry or premxed joint compound applied in two casts to joints and screw heads of laver of grown board. Paper or glass fiber tape enbedded in first laver of compound over all joints.     * Indicates such products shall bear the UL or CUL Certification Mark for jurisdictions employing the UL or CUL Certification (such as Canada), resplated on 2017-10-11     Questions2     Print this page     Terms of Use     Page Top     Products so identified have been manufactured under UL's Follow-Up Service. Always look for the Mark on the product.     In the appearance or a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Always look for the Mark on the product.     Imperitude the Onine Certifications (free) must be presented in the enterty and in a non-mikeled of gromanor.     In addition, the reprinted material with them enterined material with them is include	UNITED STA USG BORAL USG NEXICO 5A. Gypsum PABCO BUIL 5C. Wall and PABCO BUIL 5C. Wall and PABCO BUIL 5C. Wall and PABCO BUIL 5. Gypsum B 5. Gypsum B	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif GYPSUM CO – SoundBread Board* – (As an alternat GYPSUM CO – SoundBread as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Board* – (As an alternat single layer of 5/8/in, gyps dig VPSUM CO – Type FSW Board* – (As an alternat single layer of 5/8/in, gyps dig VPSUM CO – Type FSW Board* – See following ta ontally or vertically. First la contally. The horizs Rating 1 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	Classification) – CKNX.R27517  Lassification) – CKNX.R1319  x Classification) – CKNX.R1319  x classification) – CKNX.R16C89  te to Item 5) - Fastened as described in Item 5 5, k X2 Type X Gypsum Board  te to Item 5) - Fastened as described in Item 5 5, k X2 Type X Gypsum Board  te to Item 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PAECO GYPSUM – Type QuietRock ES  te to 5/8 in. Type FSW in Item 5) - Nom. 5/16 in. um board described in Item 5. Horizonta joints o  DBA PAECO GYPSUM – Type QuietRock S2  te to 5/8 in. Type FSW in Item 5) - Nom. 5/16 in. um board described in Item 5. Horizonta joints o  trited in item 5, spaced 24 n. OC. Outer layer of  ble for number of layers on exterior face of wal. J  wer, when used, attached to girts using 1-5/8 in. initial or vertical joints of the grpsum board are of  Fire Resistance from Board  (Item 5) on Interior Face  1 Layers 5/8 In. Gypsum Board (Item 5) on Interior Face  3 Layers 5/8 In. Gypsum Board (Item 5) on Interior Face  4 Boarc Mats eligible for use in Design No. X515 System Board (Item 5) on Interior Face  4 Boarc Hat is eligible for use in Design No. X515 Boarc GYNX) category for names of CI  — Horizontal wall girts, Item 3., are attached to ye in accondance from Inside  bar of CYNX) category for names of CI  — Horizontal wall girts, Item 3. Horizonta face in	/8 in. thick, 4 ft. wide, paper surfaced, applied ve t wide panels, applied vertically only and secured ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon t be same side need not be staggered. Inner by each double 5/16 in. layer attached per Item 5. Any exterior grade 5/8 in thick gypsum wallboard (rim) self-drilling bugle-head sheet steel type g in f 2 successive layers are applied in th Sides of Wall Layers 5/8 In. Sypsum Board (Item 6) on Exterior Face 1 2 2 1 1 e of Wall Only Layers 5/8 In. (Sypsum Board (Item 6) on Exterior Face 0 Layers 5/8 In. Sypsum Board (Item 6) on Exterior Face 0 Any 5/8 In. thick UL Classified Gypsum Board tr assified companies. ertical structural steel columns. See Column Des ties of exterior walls. Formulation) — Spray applied cellulose material supplied with the procupt with a noninal dry cl dry gensity of 3.5 lb/ft, in accordance with the	as described in Item , applied vertically or tally. Two layers of 3 or gypsum sheathin pe gypsum board screws pe gypsum board screws pe gypsum board screws is e same orientation.
9. Joint Tape and Compound – (not shown, optional) – Vinvi or casein, dry or premxed joint compound applied in two casts to joints and screw heads of laver of grypsum board. Paper or glass fiber tape embedded in first laver of compound over all joints.         • Indicates such products shall bear the UL or CUL Certification Mark for jurisdictions employing the UL or CUL Certification (such as Canada), respinate on 2017-10-11         Questions2       Print this page       Terms of Jise       Page Top         the appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Always look for the Mark on the product.       Company         Upermits the reproductions (File) must be presented in the identify and in a non-mislead org manning and dimension. The order information Assemblies. 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€ the appearance o' a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-UD Service. troducts bearing the UL Mark should be considered to be Certified and covered under UL's Follow-UD Service. Always isols for the Mark on the product. U, permits the reproduction of the material contained in the Online Certification Directory subject to the following conditiones: 1. The Guide Information, Assemblies, Constru- beigns, Systems and/or Certifications (files) must be presented in their entirely and in a non-mislead ng manner, without any manupulation of the data (or dawing). 2. The Reported from the Online Certifications Files or with beering the or must include	UNITED STA USG BORAL USG NEXICO SA. Gypsum PABCO BUIL SC. Wall and SB. Gypsum PABCO BUIL SC. Wall and SC. Wall and SC. Wall and SC. Wall and SC. Wall and SC. Wall and PABCO BUIL SC. Wall and SC. Wall and SC. Gypsum SC. 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besigns, Systems, and/or Certifications (files) must be presented in their entirety and in a non-mislead manner, without any manipulation of the data (or drawings). 2. The second se	UNITED STA USG BORAL USG NEXICO SA. Gypsum PABCO BUIL SC. Wall and SB. Gypsum PABCO BUIL SC. Wall and SC. Wall and PABCO BUIL SC. Wall and SC. Wall	UM PRODUCTS PCL (View ATES GYPSUM CO (View C DRYWALL SFZ LLC (View O S A DE C V (View Classif Board* – (As an alternat GYPSUM CO – SoundBrea Board* – (As an alternat LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Partition Facings and A as described in Item 5. LDING PRODUCTS L L C, d Board* – (As an alternat single layer of 5/8 in, gyps described with fasters, as des GYPSUM CO – Type FSW Board* – (As an alternat indel View (Staters), Second I a columns, a second biology (C, horizontaly, First la contally or vertically, First la contally or vertically, First la contally or vertically, First la contally or vertically, Second I a columns, a second biology (L Cassified Gypsum LSD (L Cassified Gyp	Classification) – CKNX.R27317  Lassification) – CKNX.R1319  x Classification) – CKNX.R1319  x classification) – CKNX.R16C89  te to Item 5) - Fastened as described in Item 5 5, k X <sup>2</sup> Type X Gypsum Board  te to Item 5 and 5A) – Nominal 5/8 in. thick, 4 f DBA PAECO GYPSUM – Type QuietRock ES  kccessories* – (As an altemate to Items 5 throu DBA PAECO GYPSUM – Type QuietRock S27  te to 5/8 in. Type FSW in Item 5) - Nom. 5/16 in. umboard described in Item 5. Horizonta joints o crited in item 5, spaced 24 n. OC. Outer layer of ble for number of layers on exterior face of wal. J upper when used, attached to girts using 1-5/8 in. initial or vertical joints of the grpsum board are of Fire Resistance from Board  (Item 5) on Interior Face  I Layers 5/8 In. Gypsum Board (Item 5) on Interior Face I Layers 5/8 In. Gy	/8 in. thick, 4 ft. wide, paper surfaced, applied ve t wide panels, applied vertically only and secured ugh 5C) — Nominal 5/8 in. thick, 4 ft wide panels thick gypsum panels applied vertically or horizon t be same side need not be staggered. Inner by each double 5/16 in. layer attached per Item 5. Any exterior grade 5/8 in thick gypsum wallboard ( rim) self-drilling bugle-head sheet steel type g i ( rim) self-drilling bugle-head sheet steel type g ( rime 6) on Exterior Face 1 2 2 1 1 e of Wall Only Layers 5/8 In. ( ritem 6) on Exterior Face 0 1 4 ( ritem 6) on Exterior Face 0 0 Any 5/8 In. thick UL Classified Gypsum Board ( ritem 6) on Exterior Face 0 0 Any 5/8 In. thick UL Classified Gypsum Board ( ritem 6) on Exterior Face 1 0 Any 5/8 In. thick UL Classified Gypsum Board ( ritem 6) on Exterior Face 1 0 Any 5/8 In. thick UL Classified Gypsum Board ( ritem 6) on Exterior Face 1 0 Any 5/8 In. thick UL Classified Gypsum Board ( ritem 6) on Exterior Face 2 2 4 4 4 4 4 4 5 5 5 5 5 6 5 6 6 6 6 7 7 8 8 4 8 4 4 5 5 6 7 8 8 4 8 4 5 7 8 8 4 8 4 3 8 4 3 4 4 3 4 4 4 3 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	as described in Item , applied vertically or tally. Two layers of 5 or gypsum sheathin ypsum board screws e same orientation.
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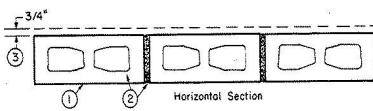
## Design No. U906

April 09, 2018

### Bearing Wall Rating — 2 HR. Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Concrete Blocks\* — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr). See Concrete Blocks category for list of eligible manufacturers. ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. Foamed Plastic\* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

**THE DOW CHEMICAL CO** — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R<sup>™</sup> ci Insulation

4A. Building Units — As an alternate to Item 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in. RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Design/System/Construction/Assembly Usage Disclaimer

Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system,

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- category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. Only products which bear UL's Mark are considered Certified.

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Last Updated on 2018-04-09



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PRINTED

DATE	COMMENTS
09.27.2018	FOR BID

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# FAYETTE CO. FIRE STATION NO. 2

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

COMMISSION NO: 1852.00

SHEET TITLE:

**UL RATINGS** 

SHEET NO:

UI 101 NOT ISSUED FOR CONSTRUCTION

# SITE DEVELOPMENT PLANS FOR FAYETTE COUNTY FIRE STATION NO. 2 1330 GA HWY 92, FAYETTE COUNTY, GA.

## **NOTES:**

I. ALL WORK SHALL COMPLY WITH FAYETTE COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS

- 2. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
- 3. PROPERTY IS ZONED R-70 (RESIDENTIAL)
- 4. PROPOSED BUILDING TO BE: 8,387 SQ. FT. 5. TOTAL SITE AREA- 4.08 Acres
- INITIAL DISTURBED AREA- 0.43 Acres.
- INTERMEDIATE/ FINAL/ TOTAL DISTURBED AREA- 1.61 Acres
- PROPOSED USE FOR FACILITY: FIRE STATION.
- CONTRACTOR WILL BE RESPONSIBLE TO CALL UTILITY PROTECTION CENTER PRIOR TO ANY EXCAVATION: 811 8. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION AND EXISTENCE OF ALL UTILITIES PRIOR TO COMMENCING
- 9. FILL MATERIAL IS TO BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM STANDARD PROCTOR DENSITY
- WATER SERVICE PROVIDED BY FAYETTE COUNTY WATER DEPT.
- 11. SEWER SERVICE PROVIDED BY ON-SITE SEPTIC SYSTEM
- 12. MAXIMUM CUT/FILL 2.0H:1V. 13 AREAS TO RECEIVE FILL SHALL BE CLEARED OF TOPSOIL
- FILLING 14. "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES
- AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES. 15. "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN ROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL MENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 16. TEMPORARY VEGETATION WILL BEGIN TWO WEEKS FROM THE INITIAL DISTURBANCE
- 17. ANY AREAS ON SITE LEFT INACTIVE FOR MORE THAN TWO WEEKS MUST BE STABILIZED WITH GRASS.
- 18. BOUNDARY & TOPOGRAPHY BY DOUGLAS CONSULTING LLC, 248 GILLIAM CT., LOCUST GROVE, GA 30248, (770) 288-2117, DATED 09-03-18.
- 19. SETBACKS: FRONT-75', SIDE-25' & REAR-50'.
- 20. THERE ARE NO STATE WATERS LOCATED ON OR WITHIN 200' OF THE SITE
- 21. THERE ARE NO WETLANDS LOCATED ON OR WITHIN 200' OF THIS SITE. 22. NO BURIAL PITS WILL BE ALLOWED ON THIS SITE.
- 23. PARCEL ID. 0548 114.
- 24. TOTAL PROPOSED BUILDING AREA (0.20 AC.) = 8,842 SF = 14% OF SITE.
- TOTAL PAVED AREA (0.36 AC.) = 15,482 SF = 24% OF SITE.
- 25. TOTAL NO. OF PARKING SPACE REQUIRED: 21 SPACES (3 SPACES PER BED).
- OTAL NO. OF PARKING SPACES DESIGNED: 24 SPACES DESIGNED: 22-10'x20' SPACES.
- PLUS 1-8'x20' HANDICAPPED VAN SPACE W/ 8' ACCESS AISLE & 1-9'x20' STD. HANDICAPPED SPACE. 26. ALL RADII ARE MEASURED TO THE FACE OF CURB
- 27. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING
- CONSTRUCTION. 28. CONTRACTOR IS RESPONSIBLE FOR ALL TIE-INS TO THE BUILDINGS INCLUDING BUT NOT LIMITED TO DOWNSPOUTS, UNLESS OTHERWISE SPECIFIED
- 29. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CONSTRUCTING ALL UTILITY RELOCATIONS AS NECESSARY. 30. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND APPROPRIATE SPECIFICATIONS AS A UNIT, ANY OMISSIONS, DELETIONS, OR CONFLICTS WITH ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO
- THE OWNER AND/OR ENGINEER. 31. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING AND PROPOSED STRUCTURES.
- 32. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE CONSTRUCTION TO BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL APPLICABLE CODES, FIRE MARSHAL, AND HANDICAP REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FEDERAL FAIR HOUSING ACT, LOCAL AND STATE ACCESSIBILITY, DEPT. OF COMMUNITY AFFAIRS AND ALL LENDING INSTITUTION REQUIREMENTS, THE AMERICANS WITH DISABILITIES ACT AND ALL AMENDMENTS THERETO. 33. THIS PROJECT WILL BE PUBLICLY FUNDED.
- 34. THIS PROJECT IS LOCATED WITHIN A GROUNDWATER RECHARGE AREA.
- 35. BASED ON THE SURVEY PROVIDED, THERE ARE NO EXISTING EASEMENTS ASSOCIATED WITH THIS PROPERTY.

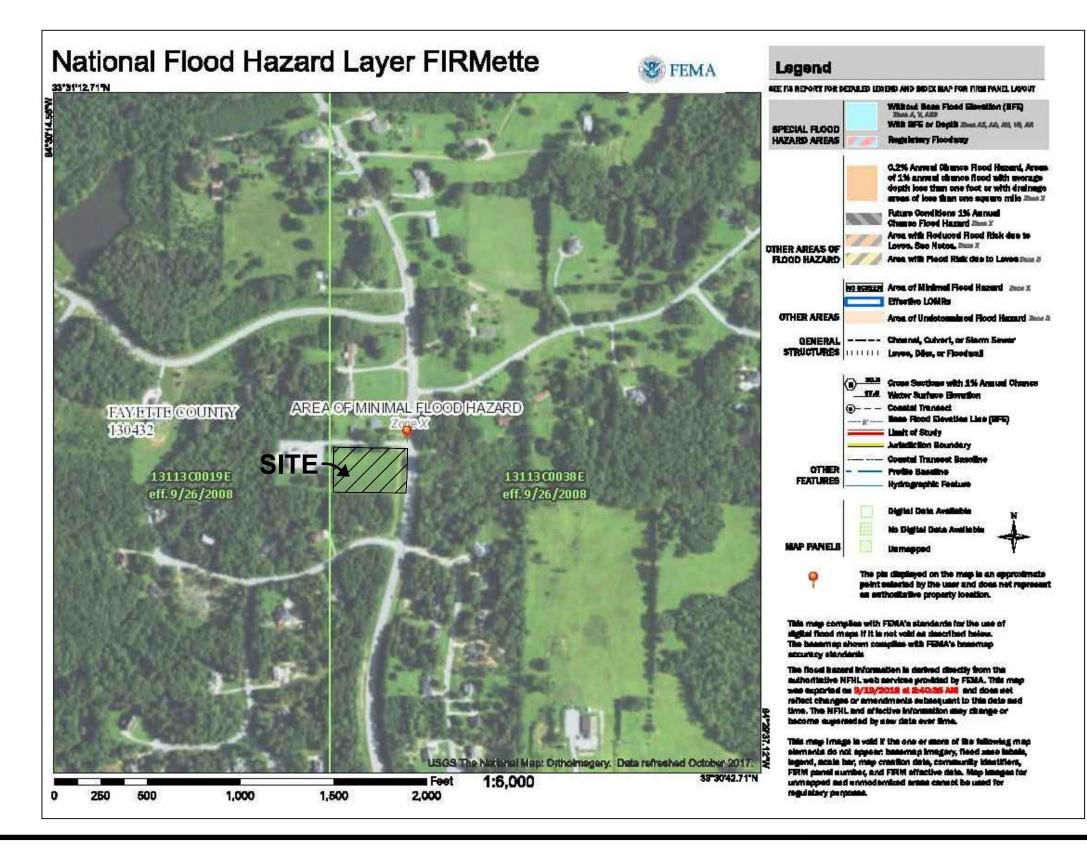
# FAYETTE COUNTY DEPARTMENTAL APPROVAL

FAYETTE COUNTY ENGINEER	DATE
FAYETTE COUNTY FIRE MARSHAL	DATE
ENVIRONMENTAL HEALTH	DATE
ENVIRONMENTAL MANAGEMENT	DATE
ENVIRONMENTAL MANAGEMENT	DATE
FAYETTE CO. ZONING ADMINISTRATOR	DATE

24 HOU
PRIMARY
FAYET
DAVID S
140 Ston
Fayettevi
PH: 77



C1. COVE
C2. EX. C0
C3. SITE F
C4. GRAD
C5. UTILIT
C6. INITIA
C7. INTER
C8. FINAL
C9. EROS
C10. WAT
C12. CON
C13. WAT
C14. SEPT



# Location Map N.T.S.

MUD AND SILT ARE STRICTLY PROHIBITED FROM LEAVING THIS SITE.

## **OWNER/DEVELOPER:**

24 HOUR CONTACT Y PERMITTEE TE COUNTY CARBROUGH newall Ave. W. ille, GA. 30214 70-305-5174

LEGEND					
P.O.R.	POINT OF BEGINNING POINT OF REFERENCE OPEN TOP PIPE	EXISTING PROPOSED TREE PROTECTION FENCING	PR.		
	IRON PIN FOUND IRON PIN SET	PR. FIRE HYDRANT	$\mathbf{X}$		
P/L	PROPERTY LINE CONCRETE MONUMENT FOUND	EX. FIRE HYDRANT			
	LAND LOT LINE BACK OF CURB	EX. WATER VALVE			
	EDGE OF PAVEMENT TOP OF WALL	PR. WATER VALVE	WM		
	BOTTOM OF WALL DRAINAGE EASEMENT	WATER METER			
S	SANITARY SEWER MANHOLE - SA	ELECTRIC BOX	EB		
•	JUNCTION BOX (JB)				
	DOUBLE-WING CATCHBASIN (DWC	,			
	SINGLE-WING CATCHBASIN (SWCE	3) WATER LINE	— w —		
	DROP INLET (DI)	SIGN	<u> </u>		
$\smile$	HEADWALL	FENCE -			
_∽ <b>≻</b>		LT-DUTY ASPHALT PAVING			
ц С	LIGHT POLE (LP) POWER POLE (PP)	HEAVY-DUTY ASPHALT PAVING			

BASED ON THE INFORMATION SHOWN ON THE FLOOD HAZARD BOUNDARY MAPS FURNISHED BY THE DEPT. OF HUD THROUGH THE FEMA IT IS MY OPINION THAT THE PROPERTY SHOWN HEREON IS OUTSIDE OF ANY FLOOD HAZARD AREA.

DATED: SEPTEMBER 6, 2008



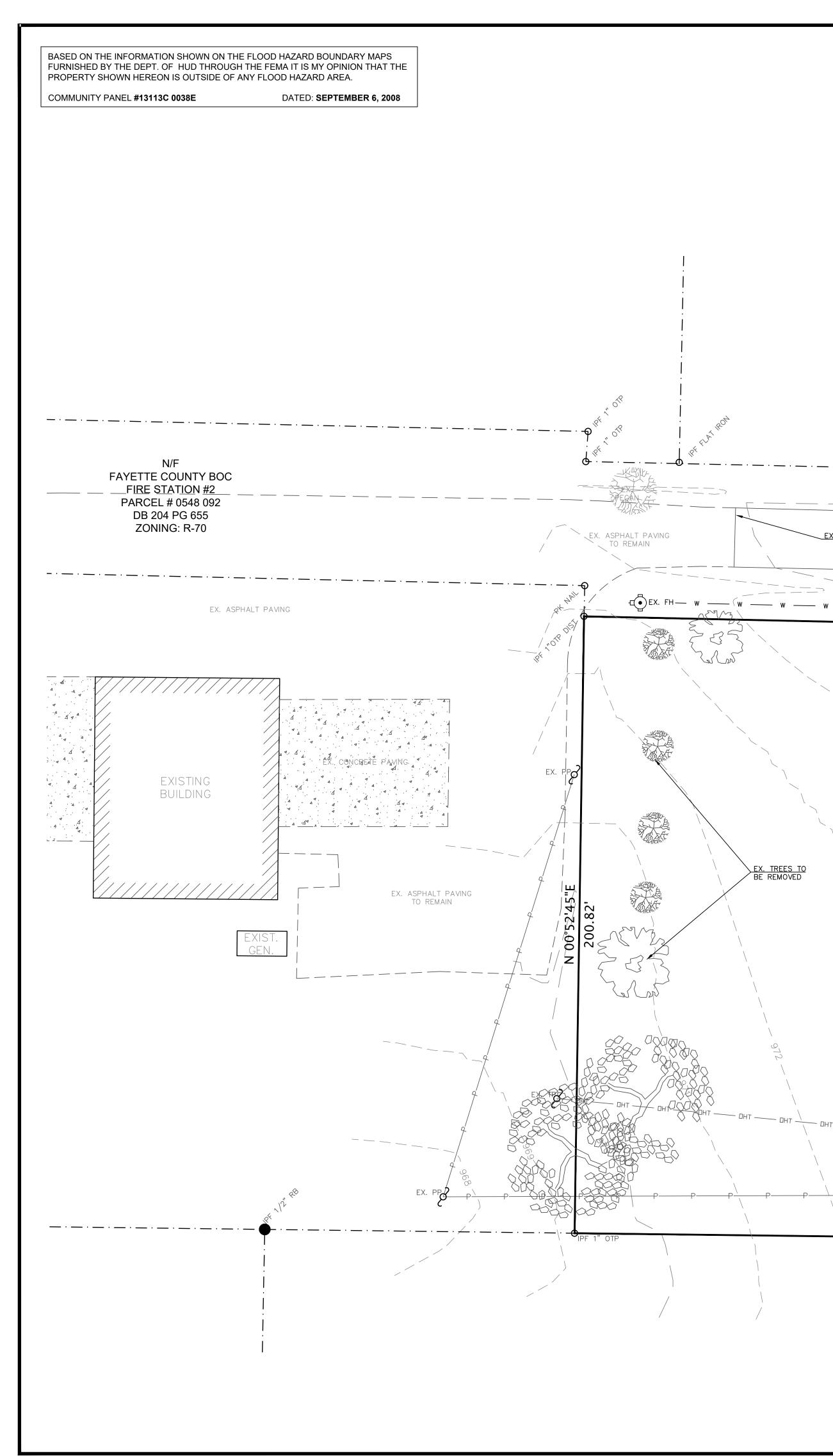
# CAUTION

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# **INDEX**

R SHEET. **ONDITIONS / DEMOLITION PLAN.** PLAN. DING & DRAINAGE PLAN. TY PLAN. L PERIMETER ES&PC PLAN. RMEDIATE ES&PC PLAN. ES&PC PLAN. SION CONTROL DETAILS. ER QUALITY POND PLAN & DETAILS. ES NOTES. ISTRUCTION DETAILS. ER & SEWER DETAILS. TIC SYSTEM SITE PLAN.

		ENGINEERING, LLO	11 E. BROAD ST. PH: (770)-473-9576 NEWNAN, GA. 30263 george@paramountengineering.com
GSW0	NGINE P. F	ERIARP	H
REV. DATE: DESCRIPTION:	NOI FOR CONSTRUCTION		DRAWING NO: 280712 - FCFS 2
		FAYETTE COUNTY	SCALE: NTS
tte Co. Fire Station No.2	<b>COVER SHEET</b>	5TH DISTRICT	DRAWN BY: GPH
PROJECT: Fayet	SHEET:	LL 256	DATE: 10/30/2018
S	не С1		



## **DEMOLITION NOTES:**

REQUIRED.

EX. ASPHALT PAVING

O BE REMOVED

MAX

PR. PP

N 89°17'57"W

N/F

BILLIE J. CARTER PARCEL # 054802001 DB 967 PG 339 PB 21 PG 112 ZONING: R-70

- 1. CONTRACTOR SHALL OBTAIN PERMITS FROM THE FAYETTE COUNTY, UTILITY COMPANIES AND ALL OTHER ENTITIES AS REQUIRED BEFORE COMMENCING ANY WORK ON SITE.
- 2. NO WORK SHALL BE DONE IN RIGHT-OF-WAY WITHOUT OBTAINING PROPER PERMITS AND NOTIFYING THE APPROPRIATE DEPARTMENTS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
- 3. PRIOR TO DISPOSAL OF WASTE MATERIALS OFF-SITE, ALL PERMITTING AND ANY AUTHORIZATIONS REQUIRED, SHALL BE IN PLACE.
- 4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES THE REMOVAL AND RELOCATION OF ANY EXISTING LINES, POLES, LIGHTS, ETC. (SHOWN OR NOT SHOWN ON PLANS).
- 5. NO BURNING OF MATERIAL ON-SITE SHALL BE PERFORMED WITHOUT OBTAINING PROPER PERMITS FROM LOCAL AND/OR STATE AUTHORITIES.
- UTILITIES TO REMAIN ON-SITE SHALL BE SAFEGUARDED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION. (NOT ALL UTILITIES MAY BE SHOWN ON PLANS).
   THE CONTRACTOR SHALL TAKE PRECAUTIONS SO AS NOT TO DISTURB ADJOINING PROPERTIES DURING DEMOLITION AND CONSTRUCTION. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY FOR THE COST OF ANY DAMAGES TO EXISTING
- STRUCTURES, ASPHALT, BUILDINGS, ETC. ON THE ADJOINING PROPERTIES IF DAMAGED DURING CONSTRUCTION.
  8. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING ALL UNDERGROUND UTILITIES WITHIN PROJECT AREA. CONTRACTOR SHALL REMOVE OR RELOCATE AS

FIREHOUSE ROAD (PRIVATE ROAD)

> <u>EX. TREES T</u> BE REMOVE

<u>EX. GRASSED</u> AREA

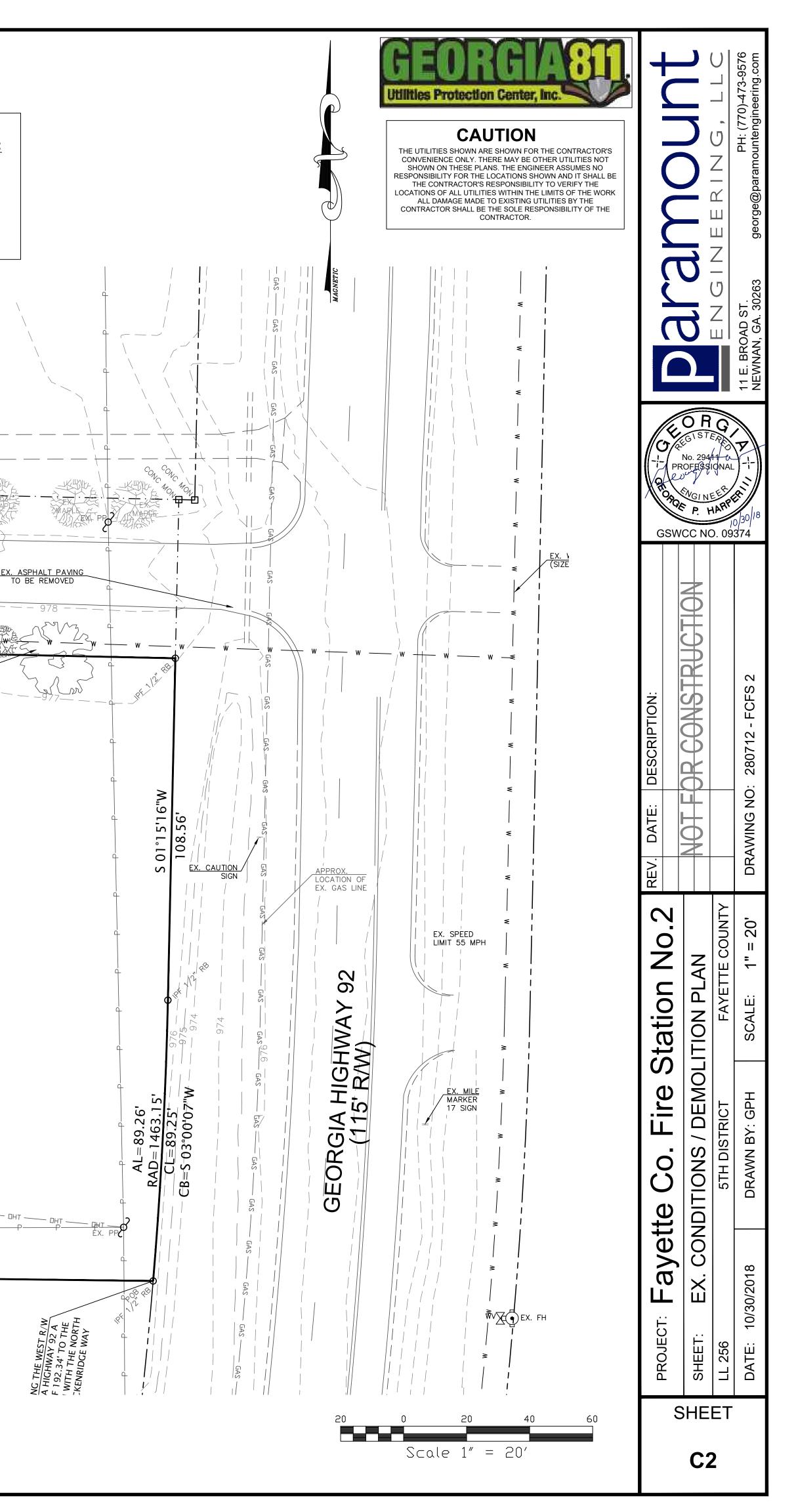
324.60'

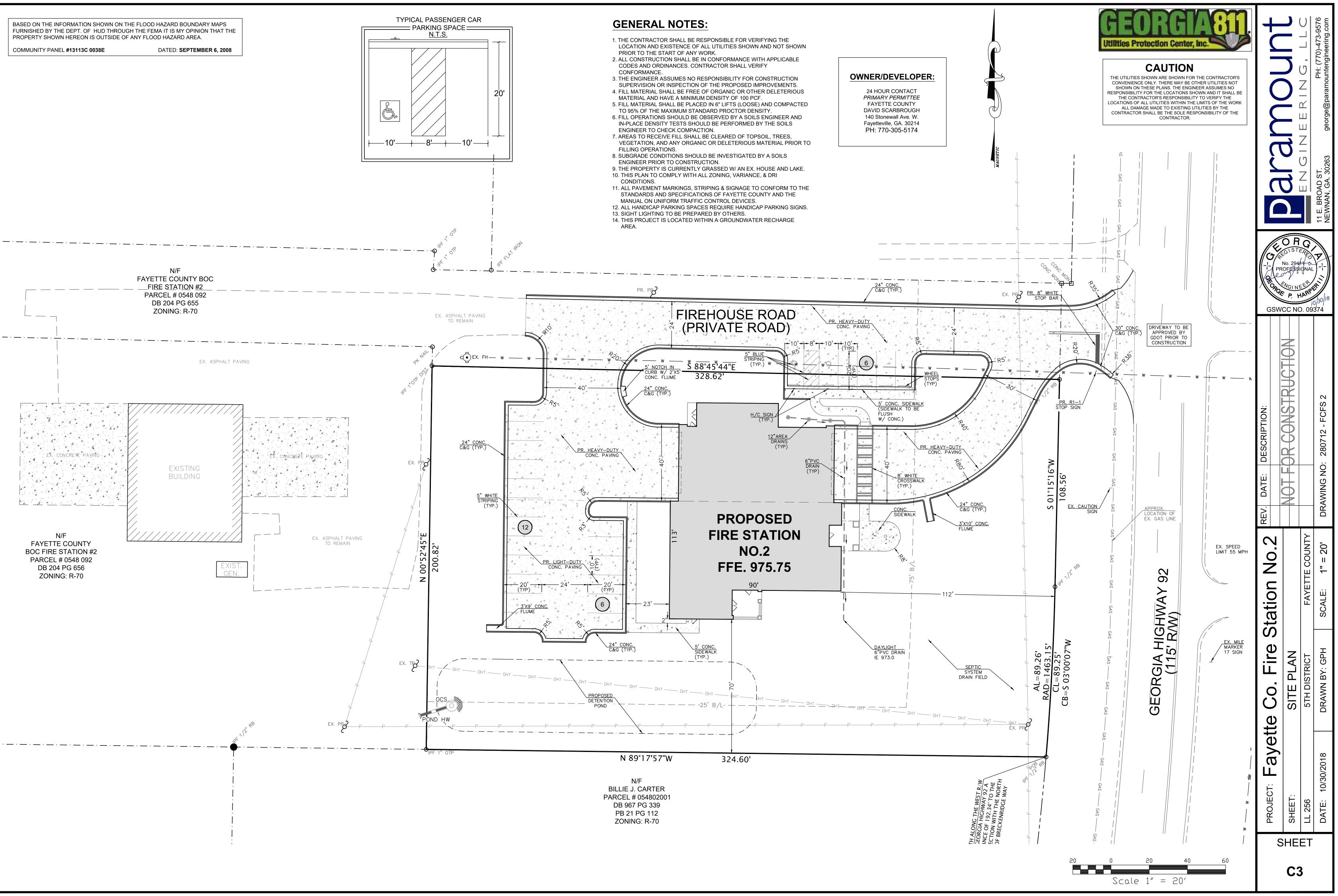
\$88°45<sup>"</sup>44<u>"</u>€

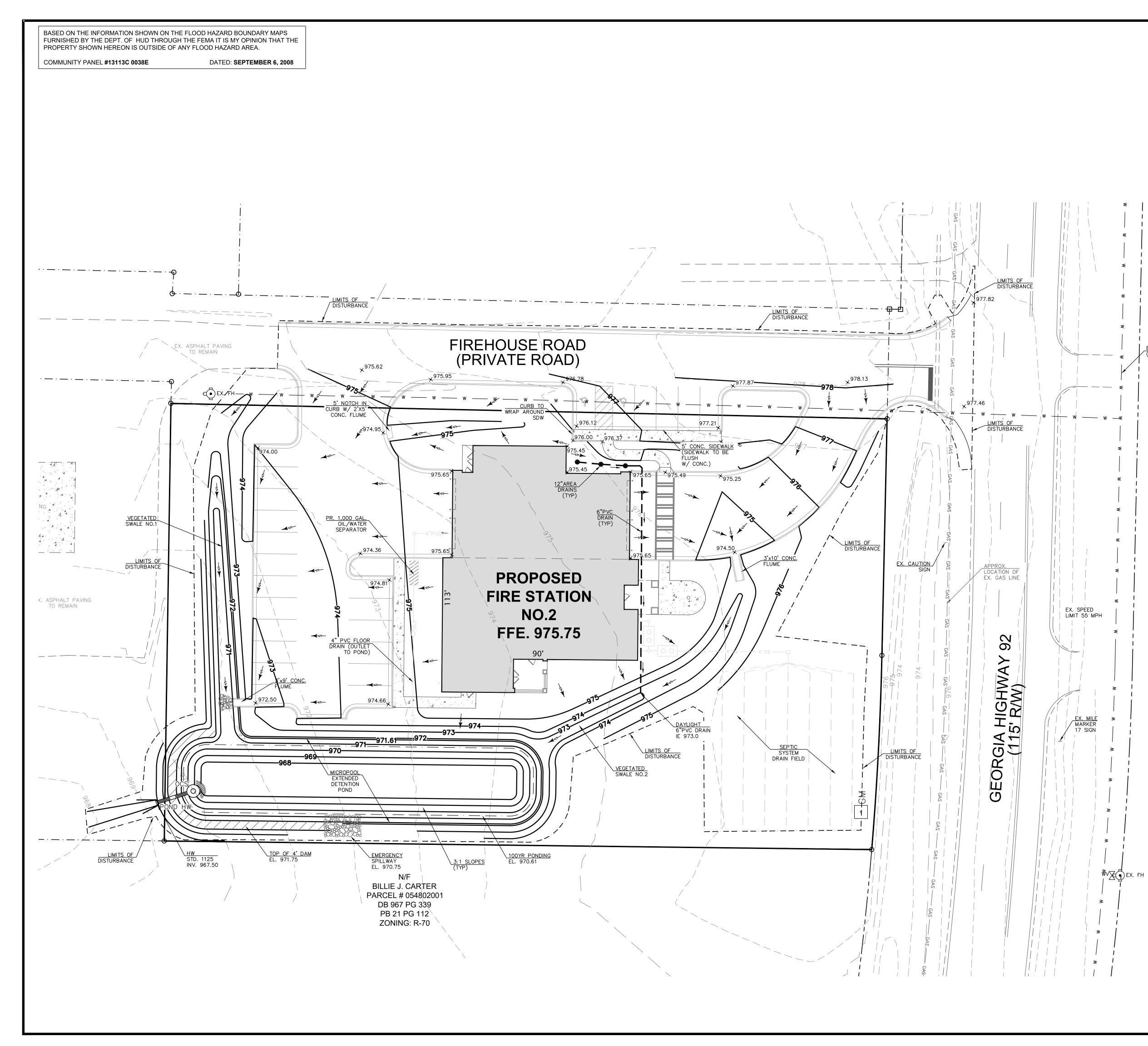
328.62

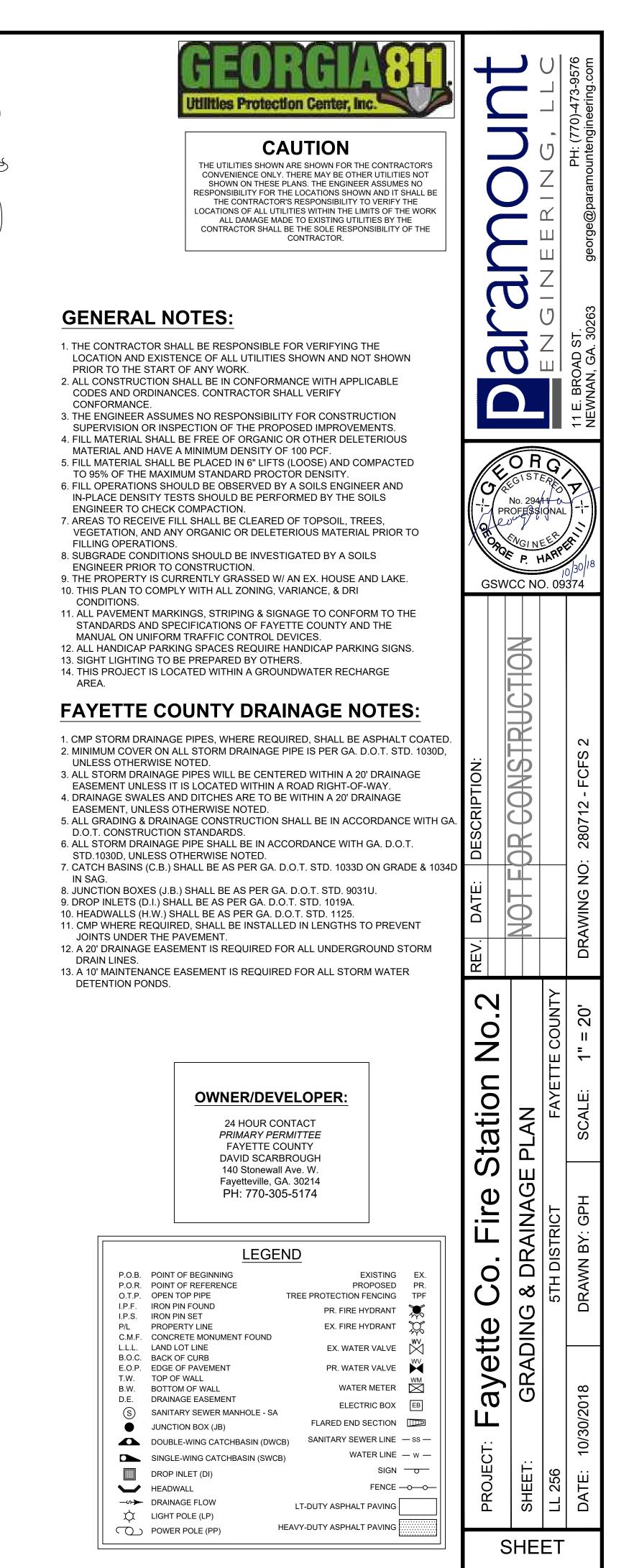
## OWNER/DEVELOPER:

24 HOUR CONTACT PRIMARY PERMITTEE FAYETTE COUNTY DAVID SCARBROUGH 140 Stonewall Ave. W. Fayetteville, GA. 30214 PH: 770-305-5174







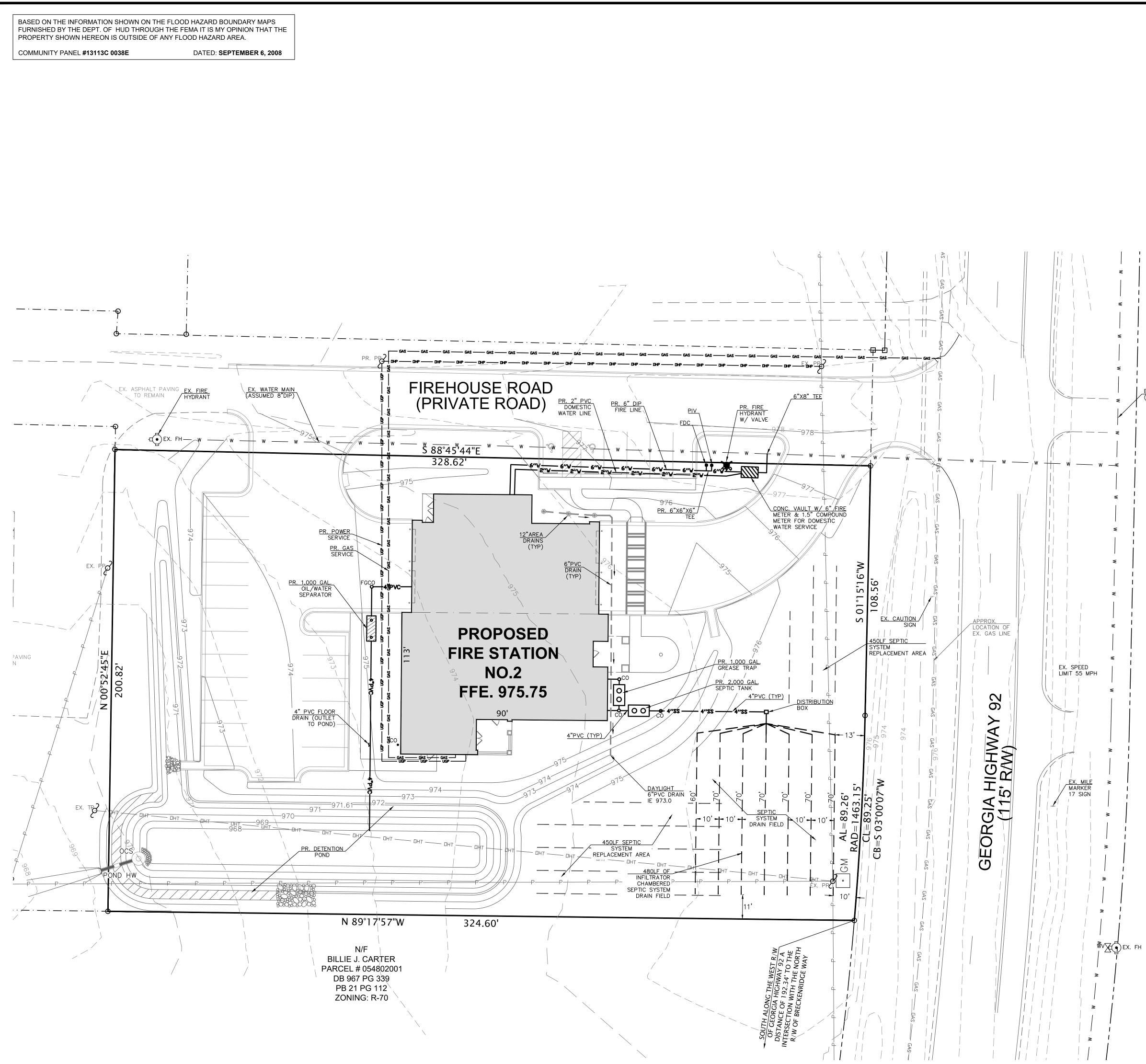


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**C4** 

Scale 1" = 20'

<u>EX. W/</u>





ties Protection Center.

## CAUTION

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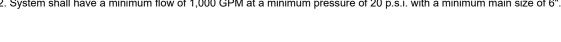
## **GENERAL UTILITY NOTES**

- 1. PROPOSED TRANSFORMER PAD LOCATION AND SIZE TO BE VERIFIED WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT, AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE POWER COMPANY.
- 2. CONTRACTOR IS RESPONSIBLE FOR UNDERGROUND ELECTRIC SERVICE FROM POLE TO BUILDING AND ALL TRENCHING, BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUCTORS, TRACE TAPE, BACKFILL, ETC. WHICH MAY BE REQUIRED BY ELECTRIC COMPANY.
- 3. UNDERGROUND TELEPHONE FROM POLE TO BUILDING TO BE EXTENDED BY TELEPHONE CO. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCHING. BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUCTORS, TRACE TAPE, BACKFILL, ETC. WHICH MAY BE REQUIRED BY TELEPHONE COMPANY.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY DOMESTIC WATERLINE APPURTENANCES INSIDE OF THE BUILDING (BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC.) WHICH MAY BE REQUIRED. COORDINATE WITH FAYETTE COUNTY WATER DEPT. (FCWD).
- 5. SPRINKLER BUILDING ENTRY TO BE DETERMINED BY ARCHITECT. CONTRACTOR IS TO INSTALL ALL APPURTENANCES REQ'D. ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC. MEETING FAYETTE COUNTY FIRE DEPT. SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS.
- 6. PROPOSED UTILITY STUB OUT LOCATIONS SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO USE ARCHITECTURAL/ MEP PLANS FOR EXACT LOCATION OF ALL UTILITY STUB-OUTS.

## WATER NOTES

## EX. WATER MAIN (SIZE UNKNOWN)

- 1. Fayette County Water System specifications and details shall govern all water main construction. 2. All materials and installation shall be in accordance with Fayette County Water System and AWWA standards and specifications.
- 3. New Water Main to be installed after curb and gutter has been constructed and must be located 7' from the back of the curb. EOM should have hydrant or other flush point.
- 4. Ductile Iron Pipe (D.I.P.) shall be minimum pressure class 300 cement mortar lined, per ANSI C151/A21.51. All fittings
- shall be mechanical joint Ductile Iron per ANSI A21.10 or A21.53. All service piping shall be copper. 5. Provide Thrust Restraint (Thrust Blocks or Restrained Joints) at all bends, Tees, Crosses and End of Lines. (EOL) Side forms shall be used to prevent encasement of bolts. Service Taps shall not be located beneath pavement. 6. Maintain 24" minimum clearance between waterline and other structures.
- 7. Contractor shall maintain a minimum of 4' over all water lines.
- 8. Gate valves shall be utilized for all extensions. Inline valves shall be placed at all intersections and at every third hydrant for future isolation purposes. 9. Long side services shall be sleeved with PVC material or better to preserve the structural integrity of roads for future
- maintenance. 10. Contractor shall flag Water Line and Service locations to prevent damage by other Utility Contractors.
- 11. Proper compaction is required throughout the project. (95% pervious, 98% impervious) 12. Unsuitable soil materials shall be replaced with Suitable Materials.
- 13. New Water Line shall be pressure tested for 2 hours at 200 P.S.I. Unacceptable leakage shall be repaired and water line shall be retested prior to acceptance by Fayette County Water System. Main must be disinfected prior to being placed in service.
- 14. All Double Water Services shall be 1" Type "K" Copper and Single Services shall be <sup>3</sup>/<sub>4</sub>" Type "K" Copper. 15. Top of curbs shall be permanently marked and painted Blue at Main and Service Crossings, as well as, Valve and Meter Locations. 16. All Fire Hydrants shall be operational prior to allowing combustible construction. Fire Hydrant spacing not to exceed 600'. All hydrants/barrels shall be 5 1/4" in diameter. Variance: Any variance for fire hydrant spacing must be approved by the
- Fire Chief or authorized designee. Such variances must be noted on appropriate site drawings. Ref. Fayette County Code of Ordinances Sec. 12-89, 12-90, 12-91, 12-92. All fire hydrants shall be painted silver and plumb. 6" minimum main size for hydrants required. 17. Meter Boxes shall be placed 9' from back of curb. Location of meters shall not be encased in asphalt or concrete.
- Alternate locations will be approved by F.C.W.S. 18. Set Meter Boxes .2' above top of Curb elevation. Mark Meter Boxes with a 4' long PVC pipe painted blue.
- 19. Waterline contractor shall provide traffic control, including signage and flagmen, while working within the Right of Way of any existing road.
- 20. Waterline contractor performing any work within an existing right of way must comply with the MUTCD 2003 Edition with Revisions Number 1 and 2 Incorporated, dated December 2007. Flaggers must possess a current certification card. Documentation shall be available upon request by any County Employee. 21. Water to be provided by Fayette County Water System.
- 22. All tie-ins shall be coordinated with Fayette County Water System. Existing valves shall be operated by County personnel only.
- 23. Contractor must notify Fayette County Water System 24 hours prior to beginning construction or requesting inspections. All work must be inspected prior to backfill and compaction. Any work covered prior to inspection is subject to rejection until it has been exposed and inspected by Fayette County Water Personnel.
- 24. No trenches or pits are to be left open overnight or through a weekend. If crew vacates job site during daytime hours, a properly constructed, highly visible barricade must be erected. 25. While the excavation is open, underground installations shall be protected, supported or removed as necessary to
- safeguard employees. 26. Means of egress from trench excavations. A stairway, ladder, ramp or other safe means of egress shall be located in
- trench excavations that are 4 feet or more in depth so as to require no more than 25 feet of lateral travel for employees. 27. Contact Matt Bergen at the Fayette County Water System to schedule a preconstruction meeting prior to beginning any work. Phone: 770-320-6020 Fax: 770-719-5576
- 28. All contractors must have a Certified Competent Person on site while work is being performed. Documentation shall be available upon request by any County Employee.
- 29. All contractors performing any Land Disturbing Activity shall have attended the GSWCC Sub Contractor Awareness Course when working in a common development where the primary permittee has obtained a Level 1A Certification. The primary permittee is required to have a Level 1A Certified representative on site at all times. Documentation shall be available upon request by any County Employee.
- 30. Any contractor performing any Land Disturbing Activity under contract for Fayette County Water System shall be considered the secondary permittee for each project. The contractor shall be required to have a GSWCC Level 1A
- Certified representative on site at all times. Documentation shall be available upon request by any County Employee. 31. Before release of the Water Lines, 2 Certified As - Builts (24 X 36) must be submitted along with 2 signed Final Plats or
- Final Site Plans. One electronic copy of each document should be sent to the inspector upon acceptance. 32. System shall have a minimum flow of 1,000 GPM at a minimum pressure of 20 p.s.i. with a minimum main size of 6".



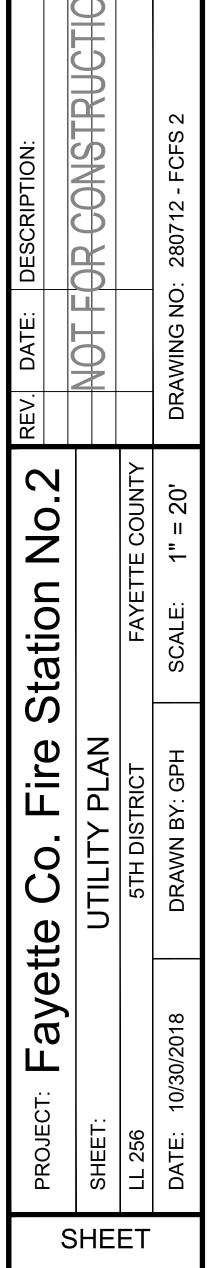
LEGEND						
P.O.B. P.O.R. O.T.P.	POINT OF BEGINNING POINT OF REFERENCE OPEN TOP PIPE	EXISTING PROPOSED TREE PROTECTION FENCING	EX. PR. TPF			
I.P.F. I P S	IRON PIN FOUND IRON PIN SET	PR. FIRE HYDRANT	X			
P/L	PROPERTY LINE	EX. FIRE HYDRANT	, Line (			
	LAND LOT LINE BACK OF CURB	EX. WATER VALVE	₩V ××			
E.O.P.	EDGE OF PAVEMENT	PR. WATER VALVE	<b>Ň</b>			
T.W. B.W. D F	TOP OF WALL BOTTOM OF WALL DRAINAGE FASEMENT	WATER METER	MM M			
s.L.	SANITARY SEWER MANHOLE - SA	ELECTRIC BOX	EB			
•	JUNCTION BOX (JB)	FLARED END SECTION				
	DOUBLE-WING CATCHBASIN (DWO	CB) SANITARY SEWER LINE	— ss —			
	SINGLE-WING CATCHBASIN (SWC	B) WATER LINE	— w —			
	DROP INLET (DI)	SIGN	<del></del>			
$\checkmark$	HEADWALL	FENCE				
v>	DRAINAGE FLOW	LT-DUTY ASPHALT PAVING				
¢	LIGHT POLE (LP)					
വ	POWER POLE (PP)	HEAVY-DUTY ASPHALT PAVING	<u></u>			



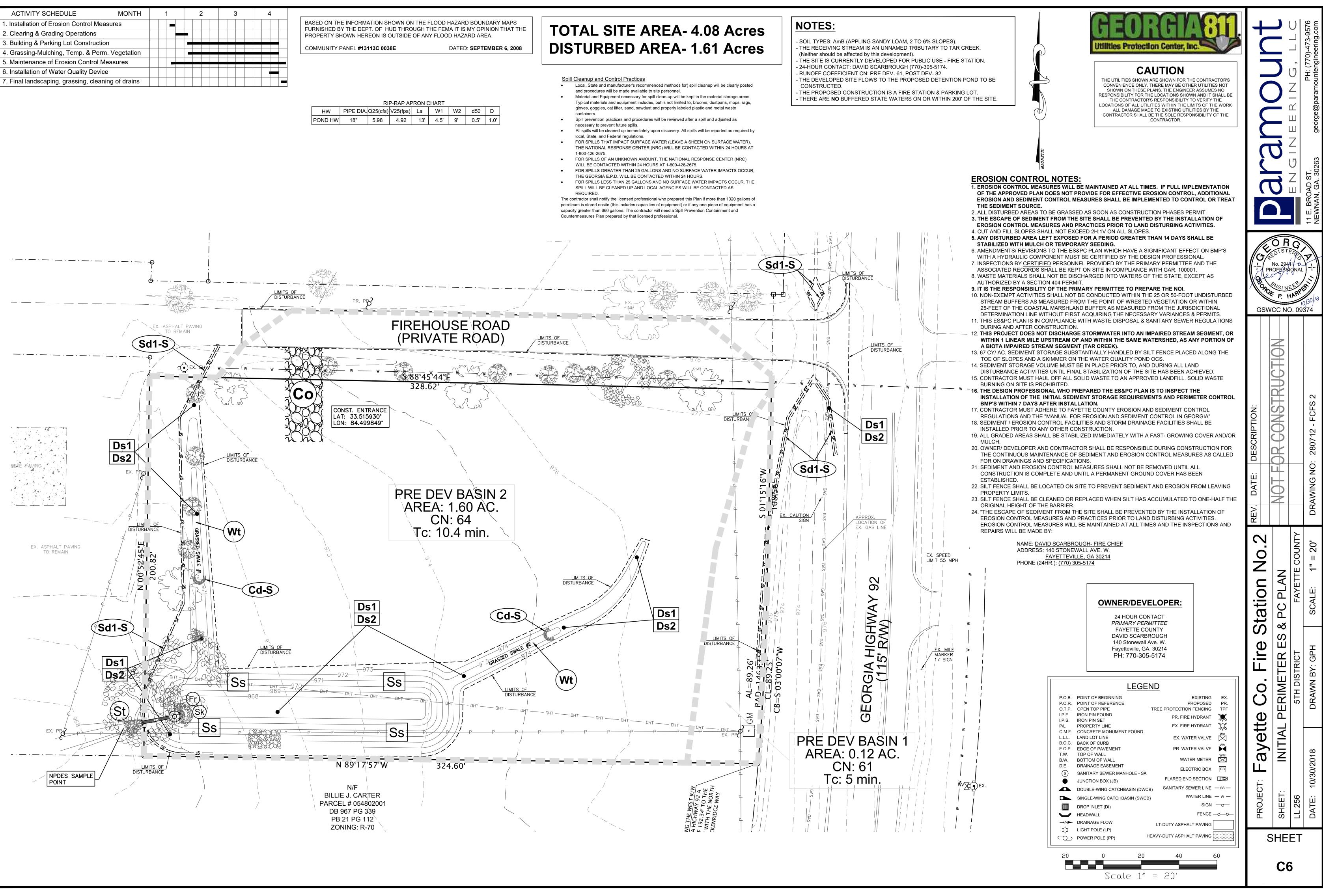


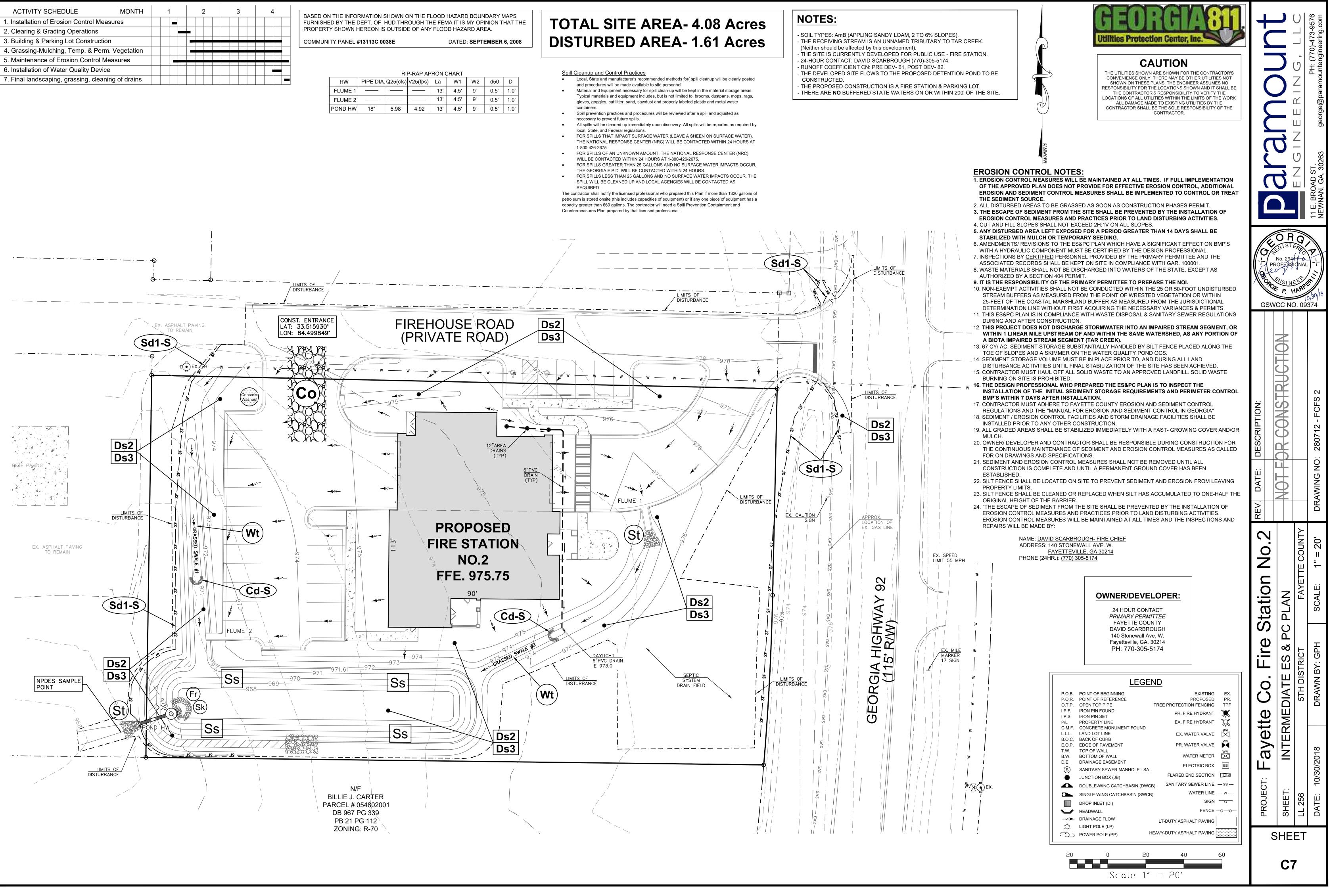
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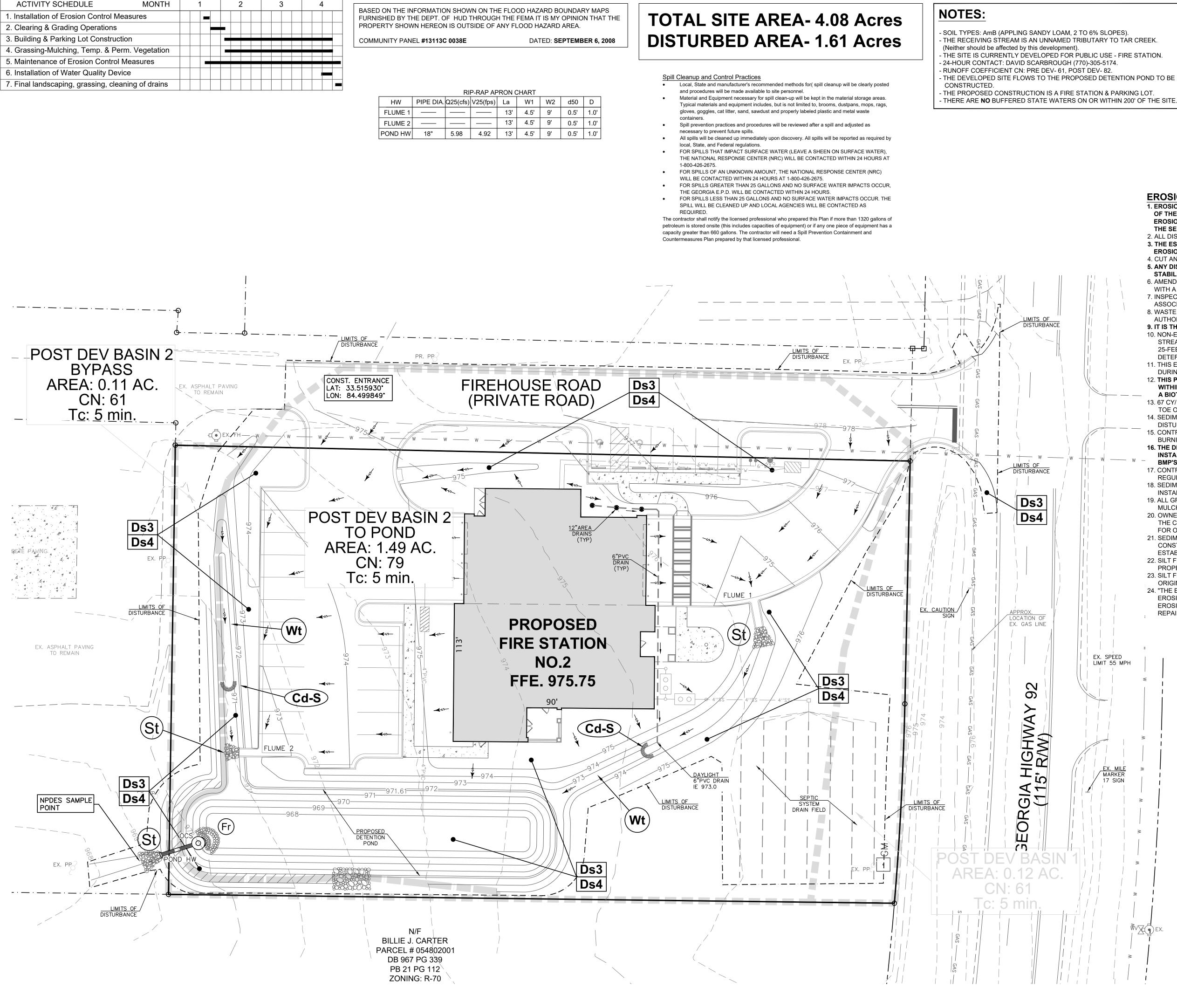


**C5** 





IART				
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4.5'	9'	0.5'	1.0'	
4.5'	9'	0.5'	1.0'	
4 5'	9'	0.5'	1 0'	



- THE RECEIVING STREAM IS AN UNNAMED TRIBUTARY TO TAR CREEK.
- 24-HOUR CONTACT: DAVID SCARBROUGH (770)-305-5174. - RUNOFF COEFFICIENT CN: PRE DEV- 61, POST DEV- 82. THE DEVELOPED SITE FLOWS TO THE PROPOSED DETENTION POND TO BE
- THE PROPOSED CONSTRUCTION IS A FIRE STATION & PARKING LOT.

EX. SPEED

LIMIT 55 MPH

EX. MILE MARKER 17 SIGN



# CAUTION

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**EROSION CONTROL NOTES:** 

- 1. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL **EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT** THE SEDIMENT SOURCE.
- 2. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. 3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- 4. CUT AND FILL SLOPES SHALL NOT EXCEED 2H:1V ON ALL SLOPES. 5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 6. AMENDMENTS/ REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- 7. INSPECTIONS BY CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR. 100001.
- 8. WASTE MATERIALS SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. 9. IT IS THE RESPONSIBILITY OF THE PRIMARY PERMITTEE TO PREPARE THE NOI. 10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED
- STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES & PERMITS. 11. THIS ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL & SANITARY SEWER REGULATIONS
- DURING AND AFTER CONSTRUCTION 12. THIS PROJECT DOES NOT DISCHARGE STORMWATER INTO AN IMPAIRED STREAM SEGMENT, OR
- WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED, AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT (TAR CREEK).
- 13. 67 CY/ AC. SEDIMENT STORAGE SUBSTANTIALLY HANDLED BY SILT FENCE PLACED ALONG THE TOE OF SLOPES AND A SKIMMER ON THE WATER QUALITY POND OCS. 14. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO, AND DURING ALL LAND
- DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.
- 15. CONTRACTOR MUST HAUL OFF ALL SOLID WASTE TO AN APPROVED LANDFILL. SOLID WASTE
- **BURNING ON SITE IS PROHIBITED** 16. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL **BMP'S WITHIN 7 DAYS AFTER INSTALLATION.**
- 17. CONTRACTOR MUST ADHERE TO FAYETTE COUNTY EROSION AND SEDIMENT CONTROL REGULATIONS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
- 18. SEDIMENT / EROSION CONTROL FACILITIES AND STORM DRAINAGE FACILITIES SHALL BE
- INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. 19. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A FAST- GROWING COVER AND/OR MULCH
- 20. OWNER/ DEVELOPER AND CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES AS CALLED FOR ON DRAWINGS AND SPECIFICATIONS.
- 21. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
- 22. SILT FENCE SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROPERTY LIMITS.
- 23. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
- 24. "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES AND THE INSPECTIONS AND **REPAIRS WILL BE MADE BY:**

NAME: DAVID SCARBROUGH- FIRE CHIEF ADDRESS: 140 STONEWALL AVE. W. FAYETTEVILLE, GA 30214

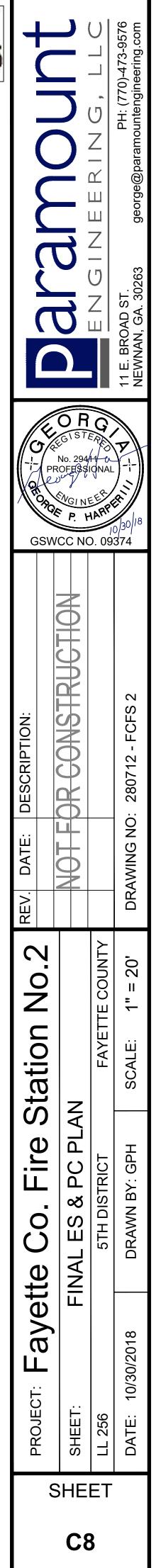
PHONE (24HR.): (770) 305-5174

# **OWNER/DEVELOPER:**

24 HOUR CONTACT PRIMARY PERMITTEE FAYETTE COUNTY DAVID SCARBROUGH 140 Stonewall Ave. W. Fayetteville, GA. 30214 PH: 770-305-5174

	LEG	END	
. POINT OF E . POINT OF F . OPEN TOP	REFERENCE	EXISTING PROPOSED TREE PROTECTION FENCING	
IRON PIN F IRON PIN S		PR. FIRE HYDRANT	×
PROPERTY	' LINE	EX. FIRE HYDRANT	, Constant C
LAND LOT I BACK OF C		EX. WATER VALVE	Ŵ
. EDGE OF P	AVEMENT	PR. WATER VALVE	WV
TOP OF WA	F WALL	WATER METER	WM
	EASEMENT SEWER MANHOLE - SA	ELECTRIC BOX	EB
JUNCTION		FLARED END SECTION	
DOUBLE-W	ING CATCHBASIN (DW	CB) SANITARY SEWER LINE	— ss -
SINGLE-WI	NG CATCHBASIN (SWO	CB) WATER LINE	— w –
DROP INLE	T (DI)	SIGN	-0
HEADWALL		FENCE	_oc
- DRAINAGE		LT-DUTY ASPHALT PAVING	
) POWER PC		HEAVY-DUTY ASPHALT PAVING	

Scale 1" = 20'



# **EROSION AND SEDIMENT CONTROL NOTES:**

- 1. CONTRACTOR MUST ADHERE TO FAYETTE COUNTY EROSION & SEDIMENT CONTROL
- REGULATIONS & THE "MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA". 2. SEDIMENT / EROSION CONTROL FACILITIES & STORM DRAINAGE FACILITIES SHALL BE
- INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 3. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A FAST- GROWING COVER &/OR MULCH. 4. OWNER, DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE DURING
- CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON DRAWINGS & SPECIFICATIONS. 5. SEDIMENT & EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL
- CONSTRUCTION IS COMPLETE & UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED. 6. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED & RIP RAP SHALL BE PLACED AS
- REQUIRED TO CONTROL EROSION. 7. A MINIMUM OF 10 SQUARE YARDS OF 50 POUND STONE SHALL BE PLACED AT ALL
- DOWNSTREAM HEADWALLS, OR AS SHOWN. 8. SILT FENCE SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT & EROSION FROM
- LEAVING PROPERTY LIMITS. 9. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT HAS ACCUMULATED TO
- ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. 10. "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES & PRACTICES PRIOR TO, OR
- CONCURRENT WITH LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES & THE INSPECTIONS & REPAIRS WILL BE MADE BY:
  - NAME: DAVID SCARBROUGH- FIRE CHIEF ADDRESS: 140 STONEWALL AVE. W. FAYETTEVILLE, GA. 30214 PHONE (24HR.): (770) 305-5174
- 11. "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."
- 12. THIS PROJECT DOES NOT DISCHARGE STORMWATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF & WITHIN THE SAME WATERSHED, AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT 13. 67 CY/ AC. SEDIMENT STORAGE SUBSTANTIALLY HANDLED BY SILT FENCE PLACED
- ALONG THE TOE OF SLOPES & A SKIMMER ON THE WATER QUALITY POND OCS.
- 14. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO. & DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

## DUST CONTROL ON Du DISTURBED AREAS

- MULCH DISTURBED AREAS AND TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL, OR TERRATACK
- ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.
- IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET. - COVER SURFACES WITH CRUSHED STONE OR GRAVEL - APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)				
MATERIAL		RATE	DEPT		

	INAL	
STRAW OR HAY	2.5TON\ACRES	6"-10"
WOOD WASTE CHIPS, SAWDUST, BARK	6 TO 9TON/Ac	2"-3"
CUTBACK ASPHALT	1200GAL/Ac	
POLYETHYLENE FILM	SEE MANUFACTURER'S RECOMMENDATION	
GEOTEXTILE JUTE MATTING	SEE MANUFACTURER'S RECOMMENDATION	

### Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
RYEGRASS (ANNUAL)	40 LBS/ACRE	AUGUST - APRIL
MILLET, PEARL	50 LBS/ACRE	APRIL - AUGUST
RYE	168 LBS/ACRE	AUGUST - DECEMBER

1. OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 2. LIME AND FERTILIZATION ARE REQUIRED.

3. MULCHING SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER USING DRY STRAW OR HAY AT A RATE OF 2.5 TONS/ACRE.

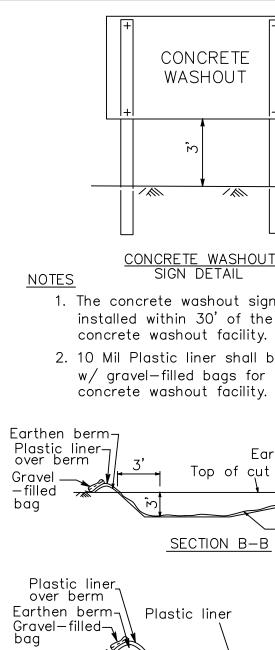
### Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
BERMUDA, COMMON (HULLED)	6-10 LBS/ACRE	MARCH - JUNE
BERMUDA, COMMON (UN-HULLED)	6-10 LBS/ACRE	OCTOBER - FEBRUARY
FESCUE, TALL	30 -50 LBS/ACRE	AUGUST - OCTOBER MARCH - APRIL
LESPEDEZA	60 - 75 LBS/ACRE	JANUARY - DECEMBER

1. OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 2. MULCHING, LIME AND FERTILIZATION ARE REQUIRED. CONVENTIONAL PLANTING SHALL UTILIZE RECOMMENDED RATES DESCRIBED IN THE

- "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 3. HYDRAULIC SEEDING MIXTURES SHALL CONSIST OF APPROPRIATE AMOUNTS OF SEED, MULCH AND FERTILIZER AS DIRECTED BY THE
- FNGINEER 4. SPECIES MAY BE MIXED TO OBTAIN OPTIMUM RESULTS.
- 5. APPLY AGRICULTURAL LIME AS PRESCRIBED BY SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.

	RATES	/ SPACING	PL	ANTING DAT	ËS	YEARS TO	FERT	ILIZER RATES	- POUNDS P	ER ACRE
SPECIES	1000 S.F.	ACRES	MTS L'STONE		COASTAL	APPLY FERTILIZER	Ν	Р	К	N TOP- DRESSING
MIDLAND OR COMMON BERMUDAGRASS	1 CU. FT.	25-40 CU. FT.				FIRST	60 - 90	120 - 180	120 - 180	50 - 100
SPRIG OR SOD PLUGS	3' X 3'	3' X 3'	3/15 - 8/1			SECOND	48	96	96	50 - 100
HULLED COMMON BERMUDAGRASS	0.25 LB.	8-10 LB.				FIRST	60 - 90	120 - 180	120 - 180	50 - 100
			4/10 - 6/15	4/10 - 6/15 4/1 - 6/15	2/15 - 6/15	SECOND	48	96	96	50 - 100
TALL FESCUEGRASS AND	1 LB.	30-40 LB.	0/4 40/45			FIRST	60 - 90	120 - 180	120 - 180	0 -50 IN SPRING
CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	1.5 LB.	60-75 LB.	8/1 - 10/15	9/1 - 11/1	9/15 - 11/15	SECOND	0	70 - 100	70 - 100	



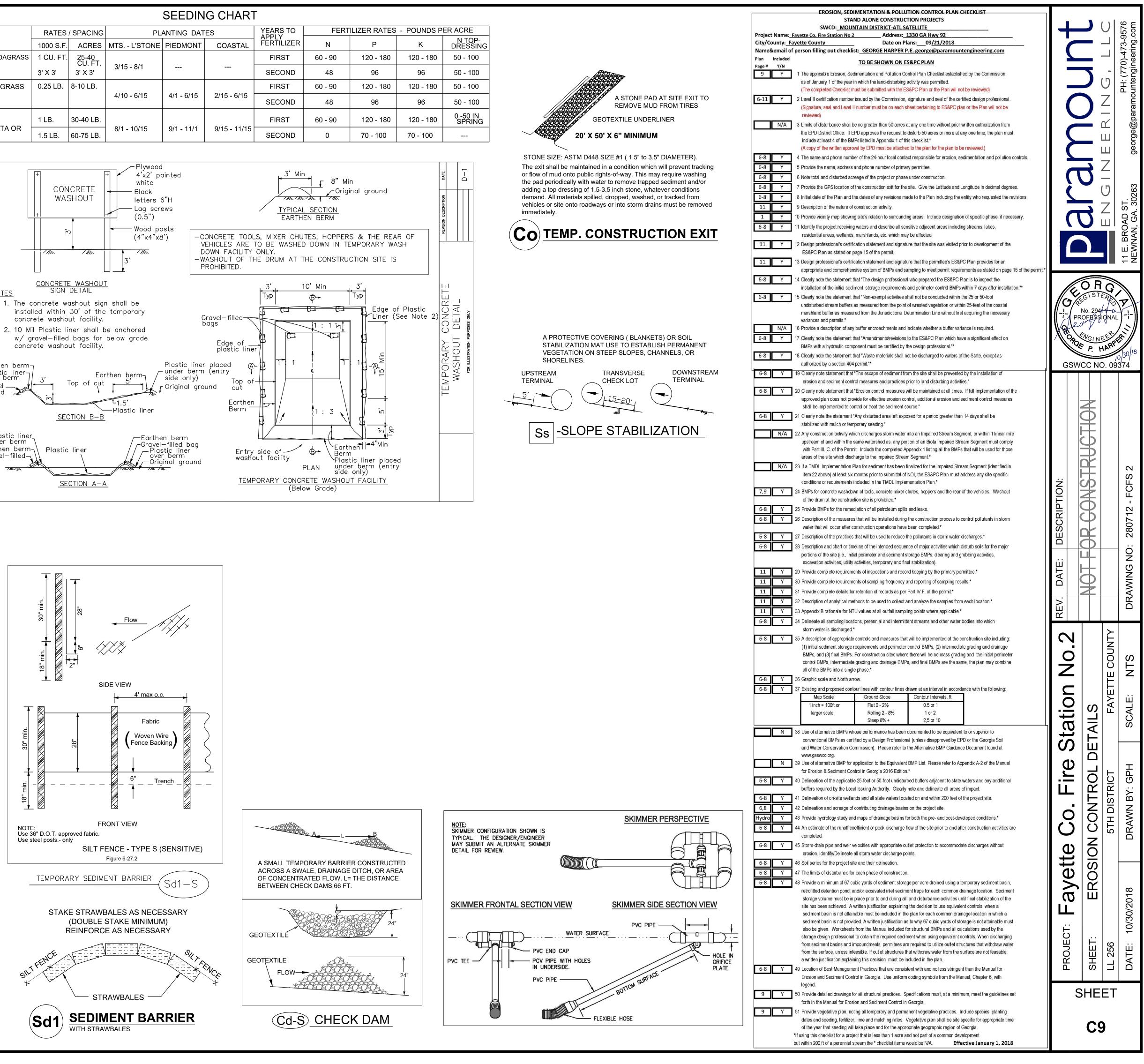


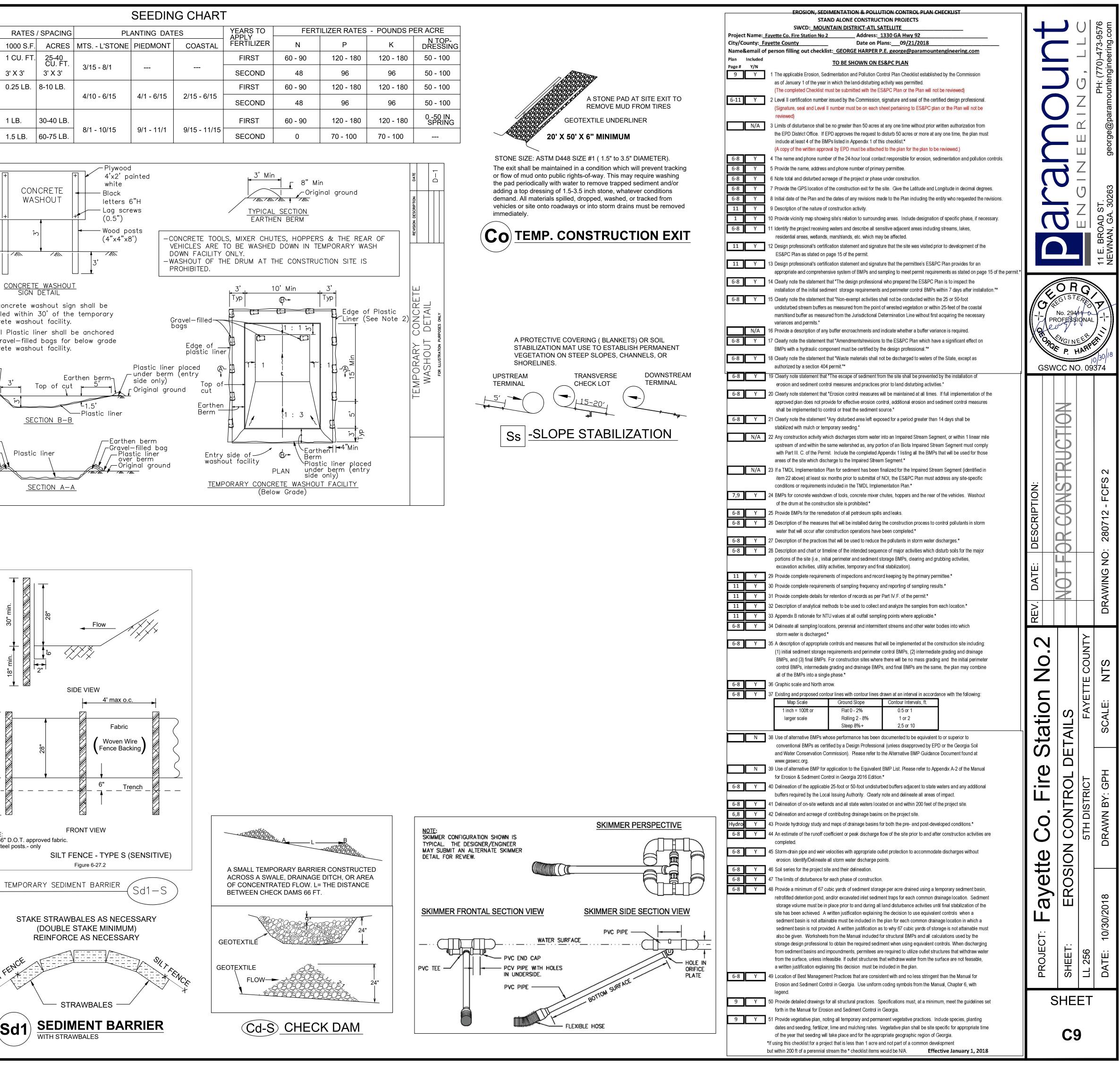
### | Ds4 | DISTURBED AREA STABILIZATION (WITH SODDING)

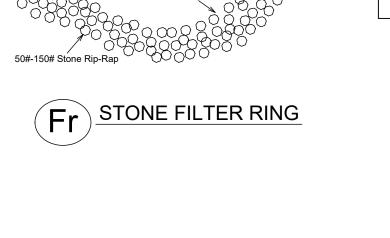
GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY TIFGREEN TIFLAWN	M-L,P,C P,C P,C P,C	WARM WEATHER
BAHIAGRASS	PENSACOLA	P,C	WARM WEATHER
CENTIPEDE	-	P,C	WARM WEATHER
ST. AUGUSTINE	COMMON BITTER BLUE RALEIGH	С	WARM WEATHER
ZOYSIA	EMERALD MEYER	P,C	WARM WEATHER
TALL FESCUE	KENTUCKY	M-L,P	COOL WEATHER

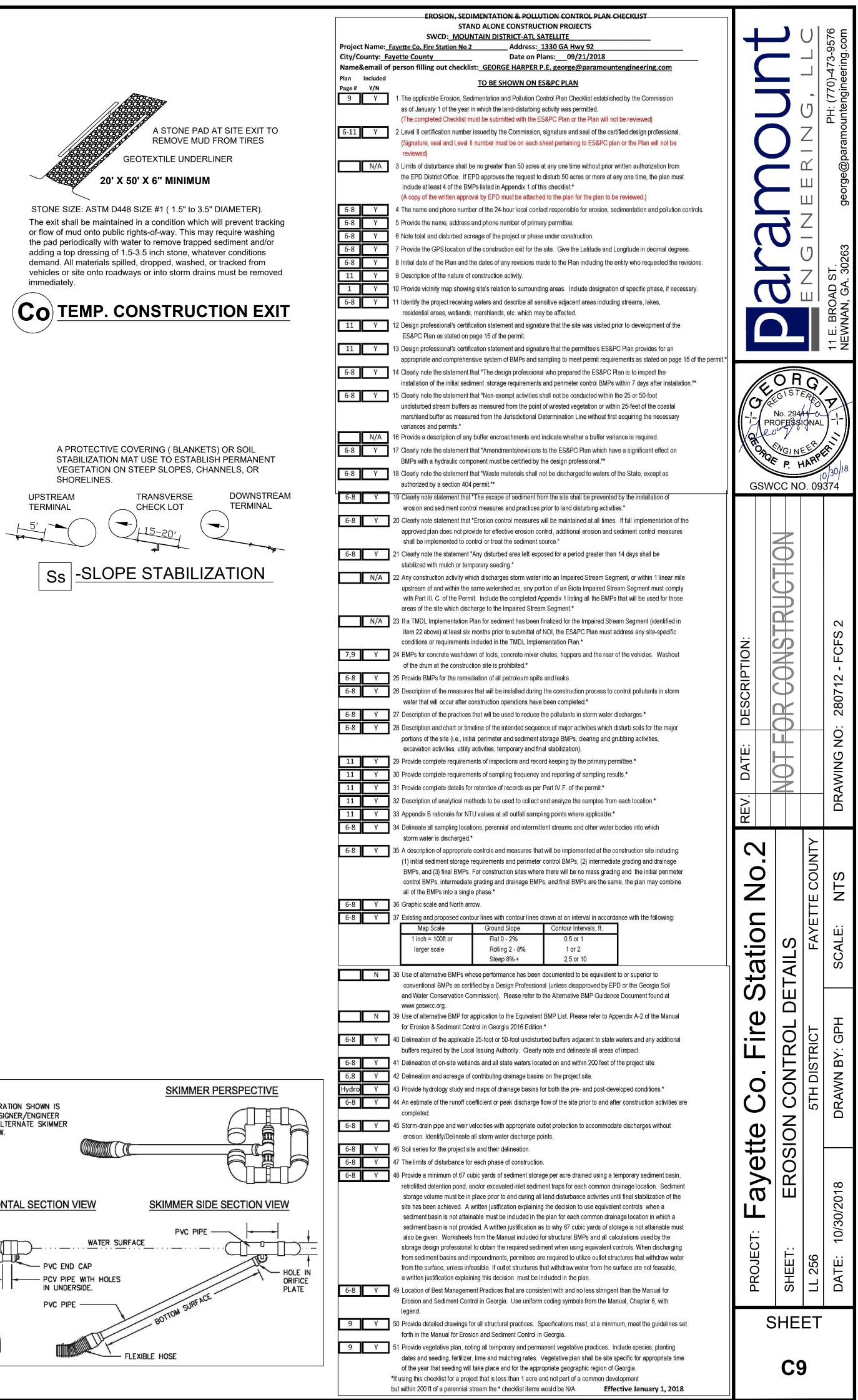
1. BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES & CLODS LAGER THAN 1". 2. APPLY SOD TO SOIL SURFACES ONLY & NOT FROZEN SURFACES, OR

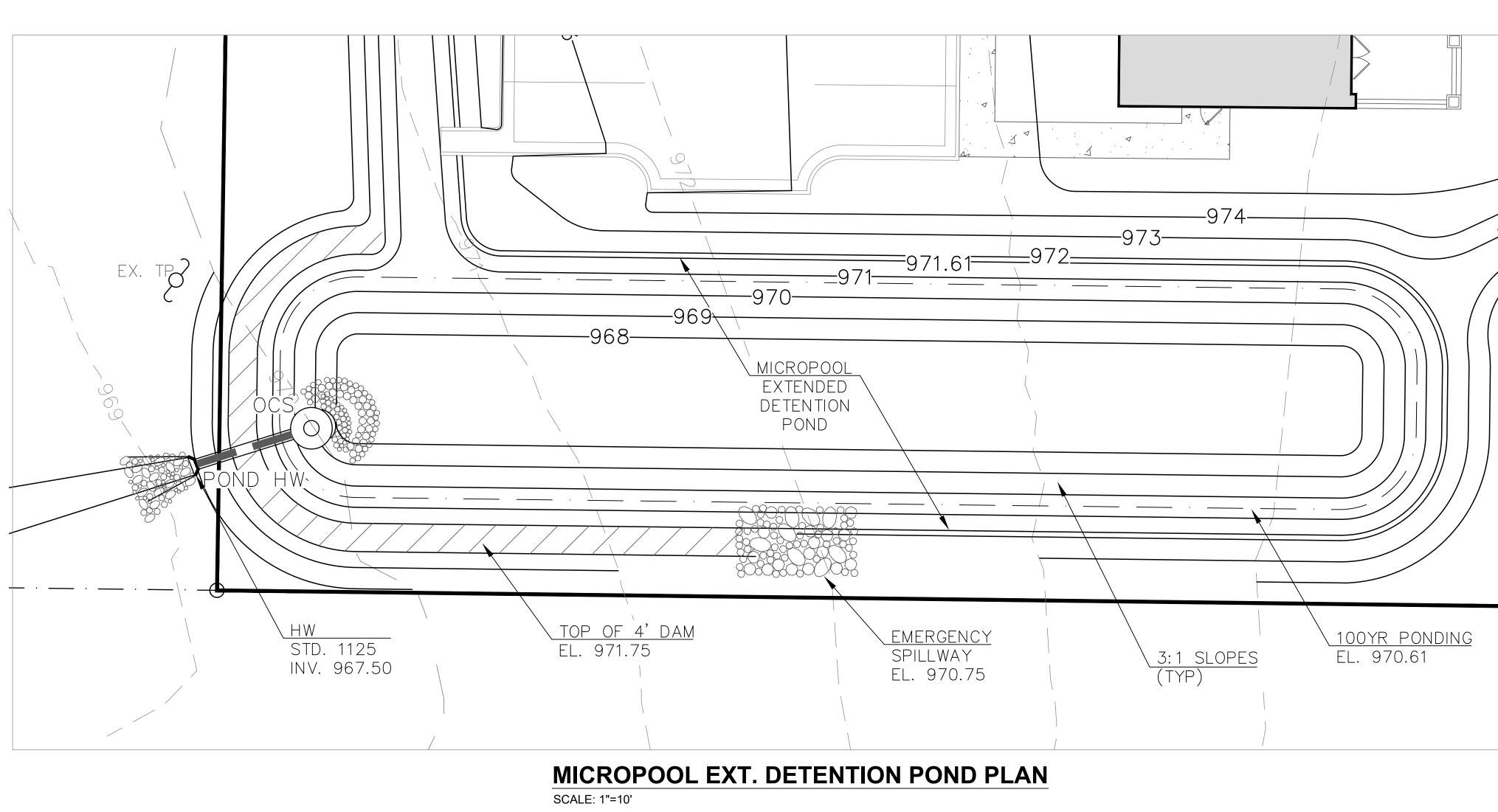
- GRAVEL TYPE SOILS 3. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DON'T
- USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILIZERS.
- 4. FERTILIZE BASED ON SOIL TESTS OR REFER TO "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- 5. LAY SOD WITH TIGHT JOINTS & IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS & DON'T STRETCH SOD.
- 6. ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS.
- 7. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD & SOIL. 8. IRRIGATE SOD & SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER
- INSTALLATION 9. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY
- WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.
- 10. SOD SELECTED SHOULD BE CERTIFIED, SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.
- 11. SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" (± 1/4 ") OF SOIL NOT INCLUDING SHOOTS OR THATCH
- 12. SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN ± 5%. TORN OR UNEVEN PADS SHOULD BE REJECTED.
- 13. SOD SHOULD BE CUT & INSTALLED WITHIN 36 HOURS OF DIGGING.
- 14. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
- 15. FOR MAINTENANCE & FERTILIZATION, REFER TO "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

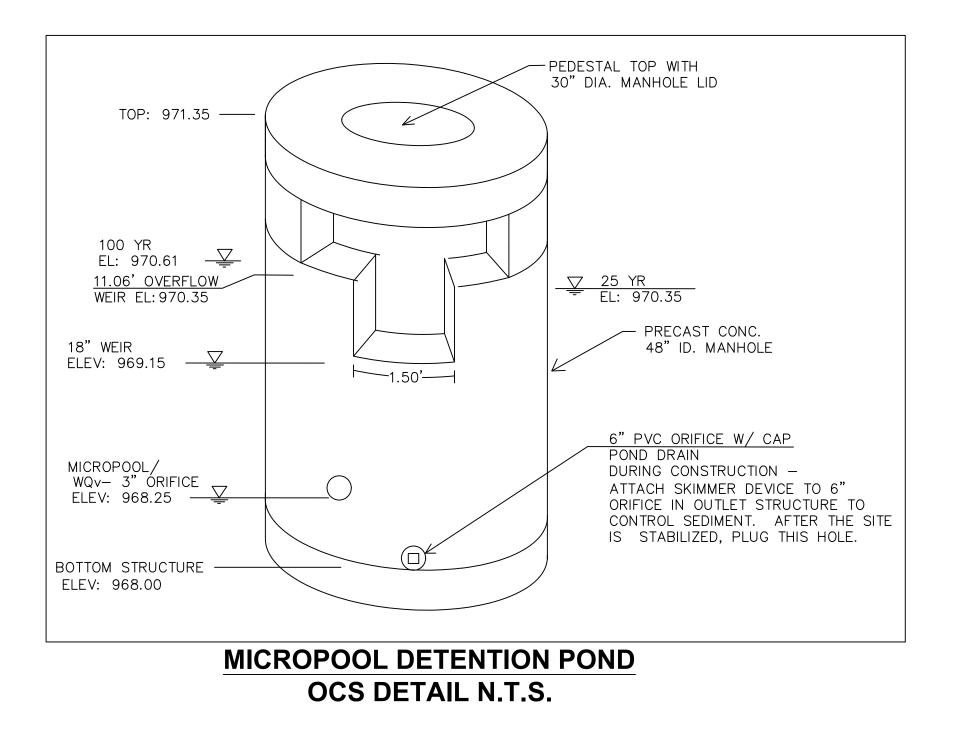


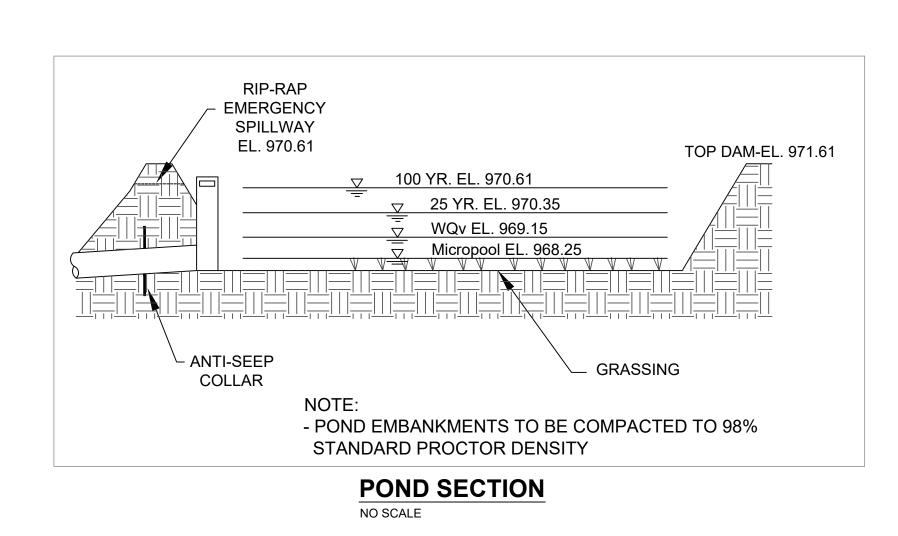


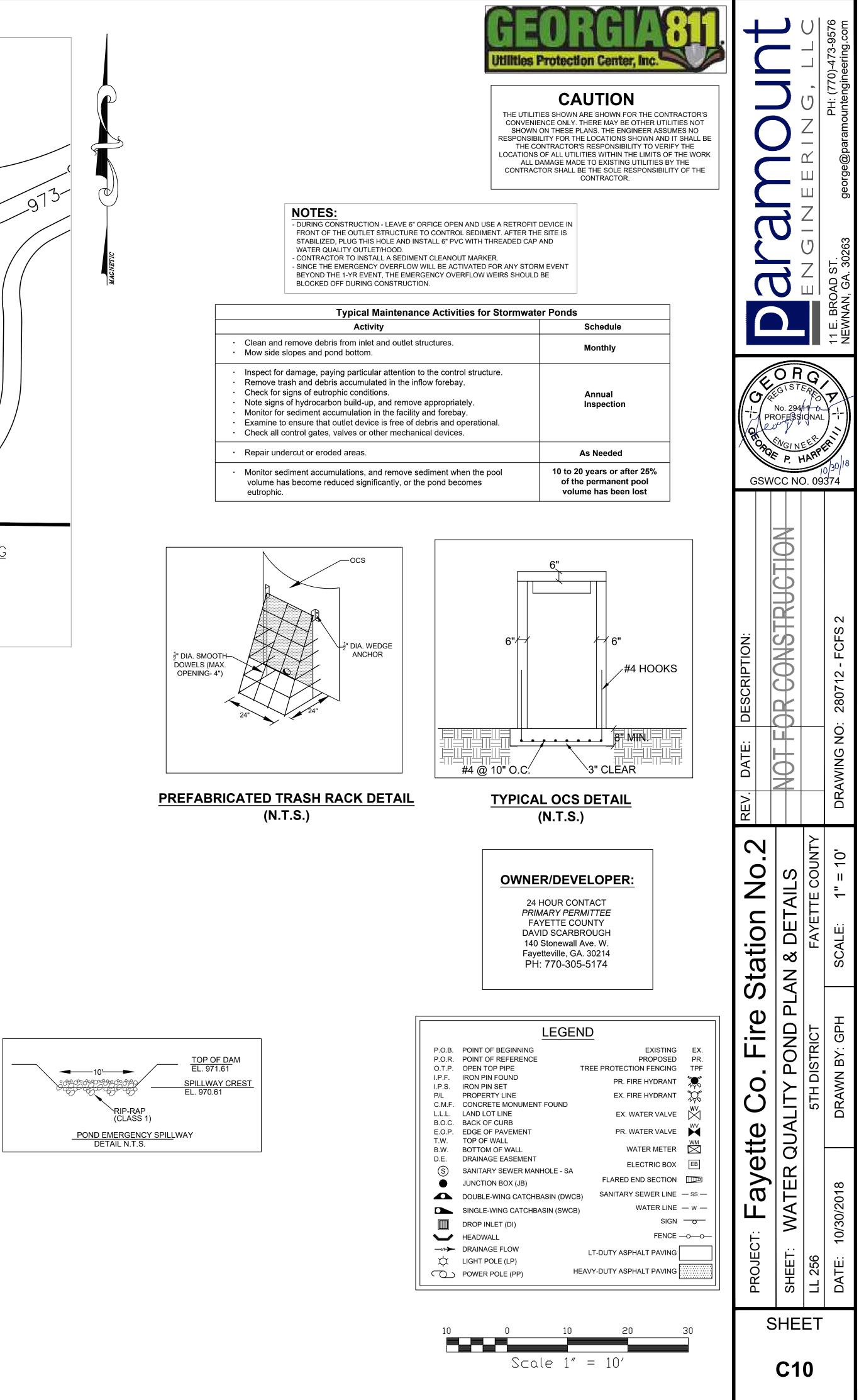


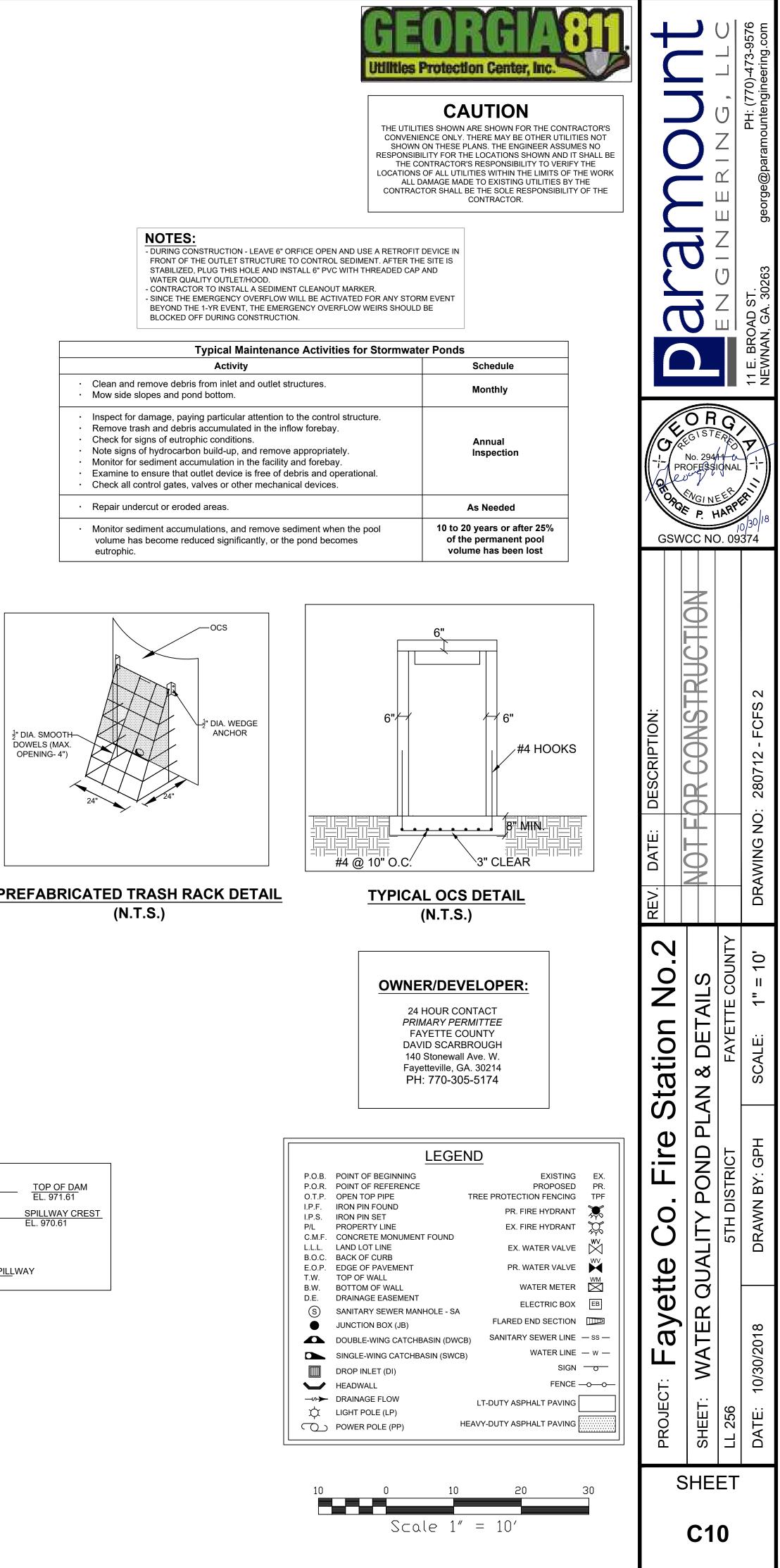












Primary Permittee	Operator	Qualified Personnel			
OWNER/DEVELOPER:	CONTRACTOR:	CIVIL ENGINEER (NPDES):			
FAYETTE COUNTY DAVID SCARBROUGH 140 Stonewall Ave. W. Fayetteville, GA. 30214 PH: 770-305-5174	24 Hour Contact: DAVID SCARBROUGH PHONE: (770) 305-5174	PARAMOUNT ENGINEERING, LLC. 11 E. BROAD ST. NEWNAN, GEORGIA 30263 (770)-473-9576			
Description of Existin Site Purpose and Co	onstruction Activi	ty:			
Site Description and Location: LOCATION: LANDLOT 256, 5th DISTRICT, FAYETTE COUNTY, GEORGIA. SITE AREA: 4.08 ACRES. INITIAL AREA OF DISTURBANCE: 0.43 ACRES. TOTAL AREA OF DISTURBANCE: 1.61 ACRES. SOIL TYPES: AmB (APPLING SANDY LOAM, 2 TO 6% SLOPES).					
Wetlands: THERE <b>ARE NO WETLANDS</b> ON OR	WITHIN 200' OF THE SITE.				
Receiving Waters UNNAMED TRIBUTARY TO TAR CRE	EEK.				
State Waters THERE <b>ARE NO BUFFERED STATE</b>	WATERS ON OR WITHIN 200	)' OF THE SITE.			
Drainage Description Please refer to the grading plan, prepared by PARAMOUNT ENG. for more specific information concerning proposed drainage patterns & slopes, & stormwater discharge locations.					
Slopes After Grading Maximum Slope is 2:1					
Erosion Control Measures Structural & nonstructural controls will be used onsite to prevent erosion during construction including temporary & permanent grassing, check dams, silt fencing, & a proposed detention pond/sediment basin.					
NTU Value An NTU value of 50 was selected from	n Appendix B based on the site	size and the surface water drainage area.			

### 1. Site Description

The proposed site will be used for a fire station & parking lot.

Approximately 1.61 acres of disturbed land will be utilized for this development. Silt fencing will be the main component of erosion control measures. However numerous structural and nonstructural controls will be implemented throughout the site. Temporary vegetation as well as permanent vegetation will be strongly utilized and are essential for the development of this complex. However, the proposed detention pond/sediment basin for the development will accommodate the disturbed area sediment storage requirement as this site drains to the proposed pond.

### 2. Controls

The following controls will be implemented at the construction site:

1. Initial perimeter controls will include silt fencing, temporary sediment basin, skimmer on OCS, & a crushed stone pad to be used at the construction exit.

2. Intermediate grading & drainage BMP's will include silt fencing, matting & blankets, check dams & temporary grassing.

3. Final BMPs will include skimmer removal & conversion of the temporary sediment basin into a permanent water quality pond, permanent grassing, & landscaping.

Stabilization measures will be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site that has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practical. Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (i.e., the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the 14h day after construction activity temporarily ceased.

Other Controls

1. Waste disposal. Solid materials, including building materials, will not be discharged to waters of the state, except as authorized by a Section 404 permit.

2. Off-site vehicle tracking of dirt, solids, and sediments and the generation of dust will be minimized or eliminated to the maximum extent practical. A construction exit consisting of a crushed stone pad to minimize off-site vehicle tracking of dirt.

3. The permittee may use any approved facility for waste disposal that he chooses.

4. Petroleum Spills and Leaks

A. Best management practices for prevention of petroleum spills:

All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any petroleum to be stored in tanks will have be surrounded by an earthen berm as a secondary protective measure. Any Asphalt substances used onsite will be applied according to the manufacture's recommendations. Contractors and subcontractors are responsible for inspecting their equipment and providing necessary maintenance to eliminate petroleum spills.

B. Best management practices for remediation of petroleum spills: Manufactures recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures, the location of the information and the cleanup supplies. Materials and equipment necessary for spill cleanup will be available if needed. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose. All spills will be cleaned up immediately after discovery. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance. Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included. The Operator will designate a spill prevention and cleanup coordinator. The contractor is responsible for providing and implementing a spill prevention plan.

### 4. Inspections

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted. (4). Certified personnel (provided by the primary permittee) shall inspect at least once per

month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(4). A copy of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G.2. of this permit.

### 5. Maintenance

a. Inspections of erosion control measures will be performed and corrective action taken when needed as required by the plan

b. The permittee shall maintain all erosion control measures until permanent vegetation has been established

c. The permittee shall clean out all sediment ponds when required by the engineer. d. Accumulated silt shall be removed when the silt is two-thirds full. See sediment pond design for clean-out elevations of ponds.

### 6. Sampling Requirements

This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

a. Sampling Requirements shall include the following:

(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic accordance with (b). Those existing construction activities that have met the sampling map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the required by (b) above shall not be required to conduct additional sampling other than as site or the stand alone construction; (a) the location of all perennial and intermittent streams required by (c) above. and other water bodies as shown on a USGS topographic map, and all other perennial and \*Note that the permittee may choose to meet the requirements of (a) and (b) above by intermittent streams and other water bodies located during mandatory field verification, into collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows which the storm water is discharged and (b) the receiving water and/or outfall sampling for sampling at any time of the day or week. locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) 7. Non-storm water discharges must be hand-drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue Except for flows from fire fighting activities, sources of non-storm water listed in Part 111.A.2.

line stream shown on the USGS topographic map; (2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples. (2). Samples should be well mixed before transferring to a secondary container. (3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination. (4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit

should be analyzed immediately, but in no case later than 48 hours after collection. However, disks or tapes, etc., used to determine these results: samples from automatic samplers must be collected no later than the next business day after h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and i. Certification statement that sampling was conducted as per the Plan. their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the 3. All written correspondence required by this permit shall be submitted by return receipt permittee must utilize manual sampling or rising stage sampling during the next qualifying certified mail (or similar service) to the appropriate District Office of the EPD according to the event. Dilution of samples is not required. Samples may be analyzed directly with a properly schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of calibrated turbidimeter. Samples are not required to be cooled. submittal at the construction site or the proof of submittal shall be readily available at a (5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the frequency written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

stated in this permit must be reported to EPD as specified in Part IV.E.

### c. Sampling Points.

(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value. (b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the

discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s). (d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s)

or in the outfall storm water channel. (e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittee's do not have to sample sheet-flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPO for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop 'of annual vegetation and a seeding of target crop perennials appropriate for the region). (h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts 111.D.3. or 111.D.4 ..., whichever is applicable

d. Sampling Frequency.

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible. (2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events: (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected

as the sampling location, whichever comes first; (c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in

of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

## E. Reporting

1. The applicable permittee's are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI. 2. All sampling reports shall include the following information

a. The rainfall amount, date, exact place and time of sampling or measurements; b. The name(s) of the certified personnel who performed the sampling and measurements;

- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used; g. The results of such analyses, including the bench sheets, instrument readouts, computer

## Submit sampling reports for this project to:

Address: Mountain District - Atlanta Satellite Georgia Environmental Protection Division 4244 International Parkway, Suite 114 Atlanta, Georgia 30354-3906 (404) 362-2671

## F. Retention of Records

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI: a. A copy of all Notices of Intent submitted to EPD

b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit; c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5 of this permit;

d. A copy of all sampling information, results, and reports required by this permit; e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit; f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2 of this permit; and

g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit. 2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports Building Materials -No building or construction materials will be buried or disposed of (including all calibration and maintenance records and all original strip chart recordings for onsite. All such material will be disposed of in proper waste disposal procedures. continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be Hazardous Wastes retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These All hazardous waste materials will be disposed of in the manner specified by local, records must be maintained at the permittee's primary place of business or at a designated state, and/or federal regulations and by the manufacturer of such products. The job alternative location once the construction activity has ceased at the permitted site. This period site superintendent, who will also be responsible for seeing that these practices are may be extended by request of the EPD at any time upon written notification to the permittee. followed, will instruct site personnel in these practices. Material Safety Data Sheets

### 8. Plan Preparation and Compliance

IV.A(5) For stand alone projects that begin construction activity after the effective date of this permit, the primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, except when the primary permittee has requested in writing and EPD has agreed to an alternate design professional, to inspect the installation of the initial sediment storage requirements and perimeter control BMP's which the design professional designed within seven (7) days after installation. The design professional shall determine if these BMP's have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

### Certification

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION." GEÓRGE P. HARPÉR/ F

### Certification

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001."

Georgia Licensed Professional

### Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Primary Permittee

09/2///8 Date

Date

## **Product Specific Practices**

Petroleum Based Products -Containers for products such as fuels, lubricants, and tars will be inspected daily for leaks and spills. This includes onsite vehicles and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from State Waters, natural drains, and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels, and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Paints/Finishes/Solvents -All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products, and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete Truck Washing -NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite.

Fertilizer/Herbicides -These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

(MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

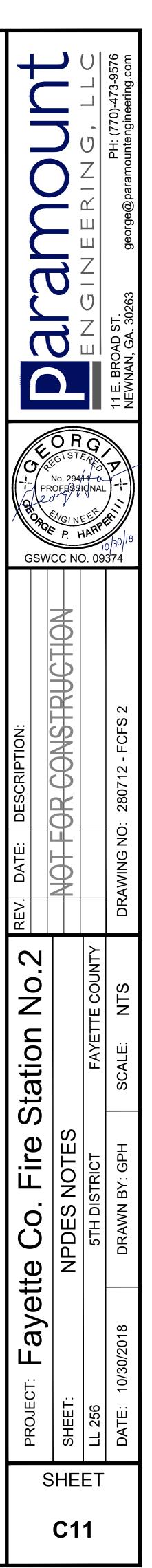
The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

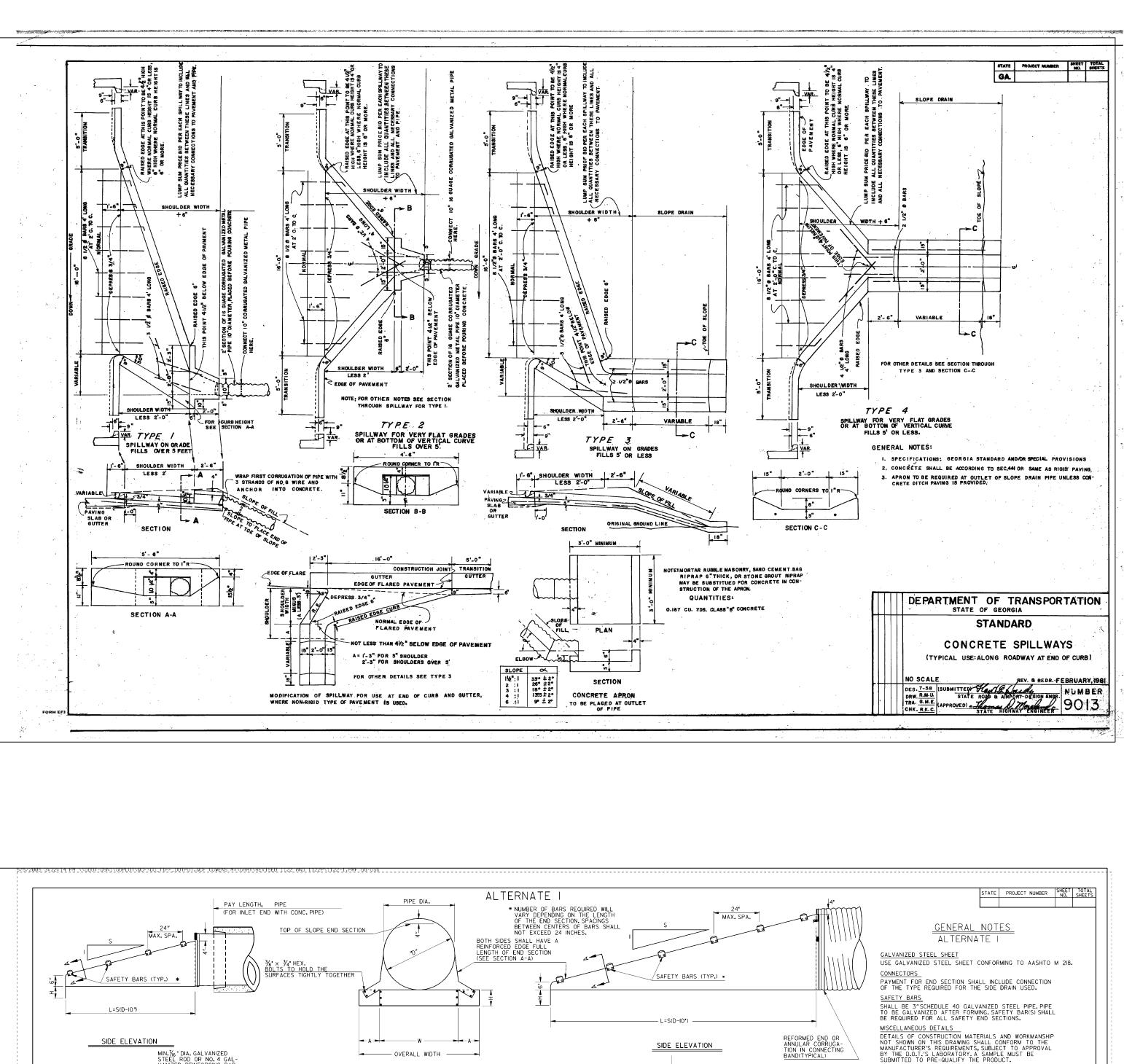
### Sanitary Wastes

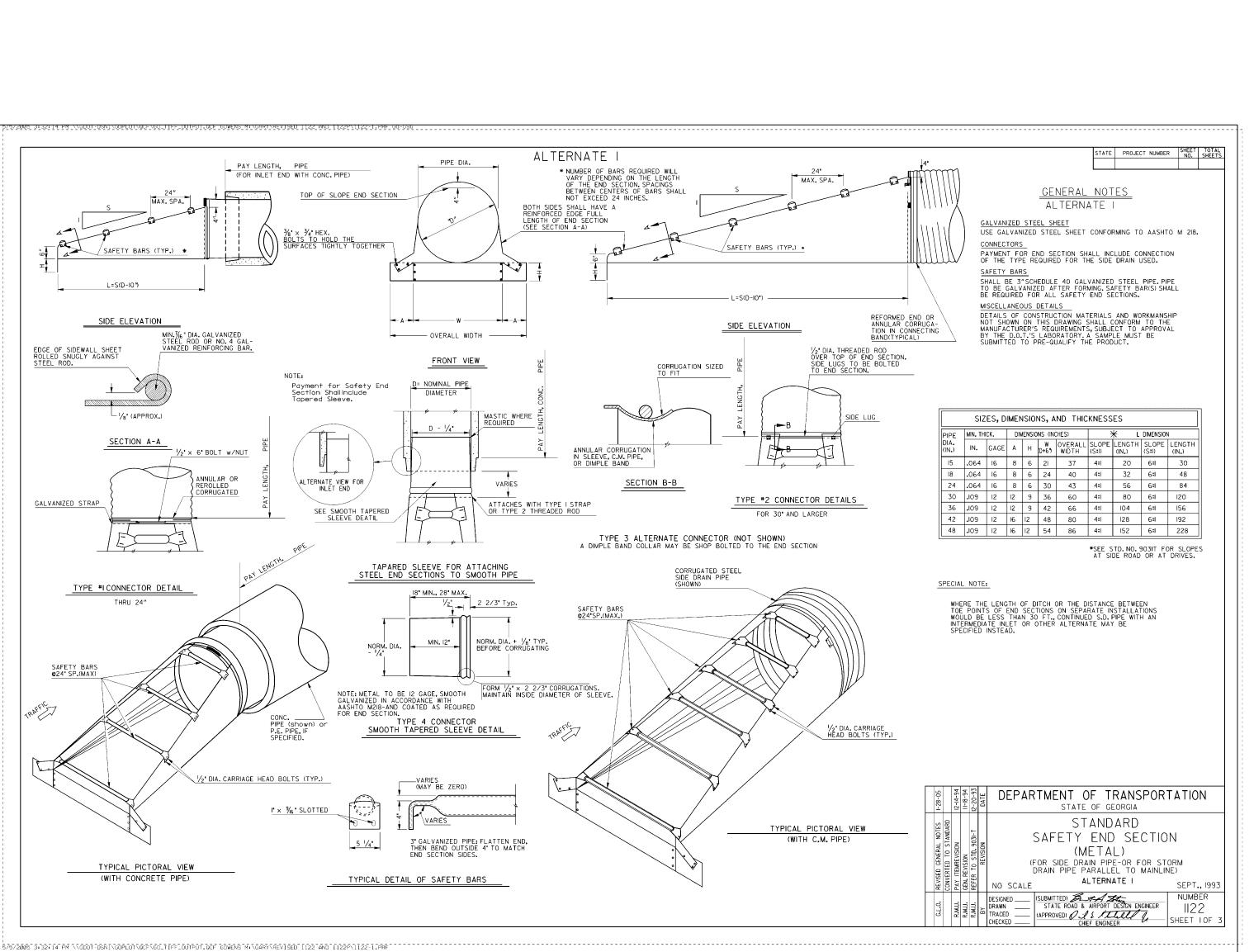
A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

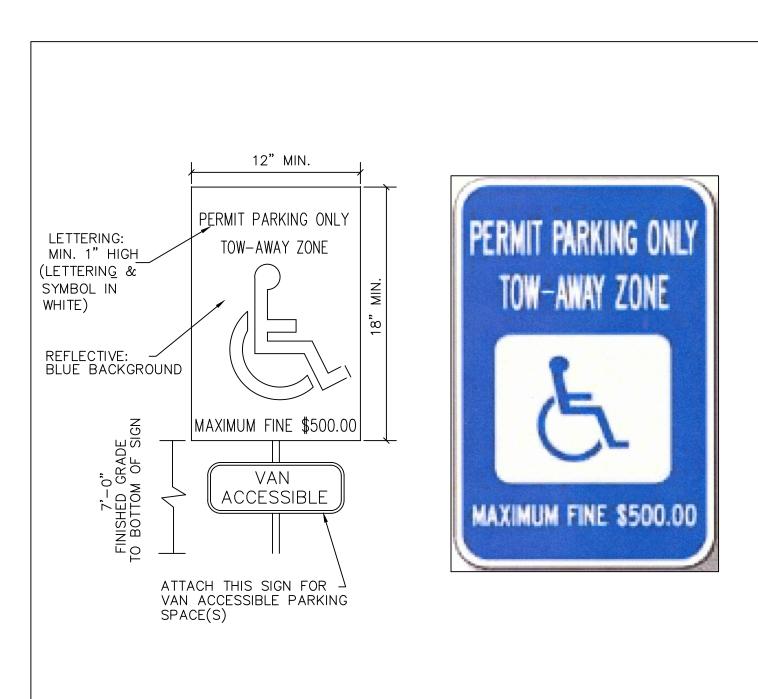
All sanitary waste units will be located in one area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the ES&PC Plan by the contractor once the locations have been determined.

Sanitary Sewer will be provided by Municipal Authority at the completion of this Project.



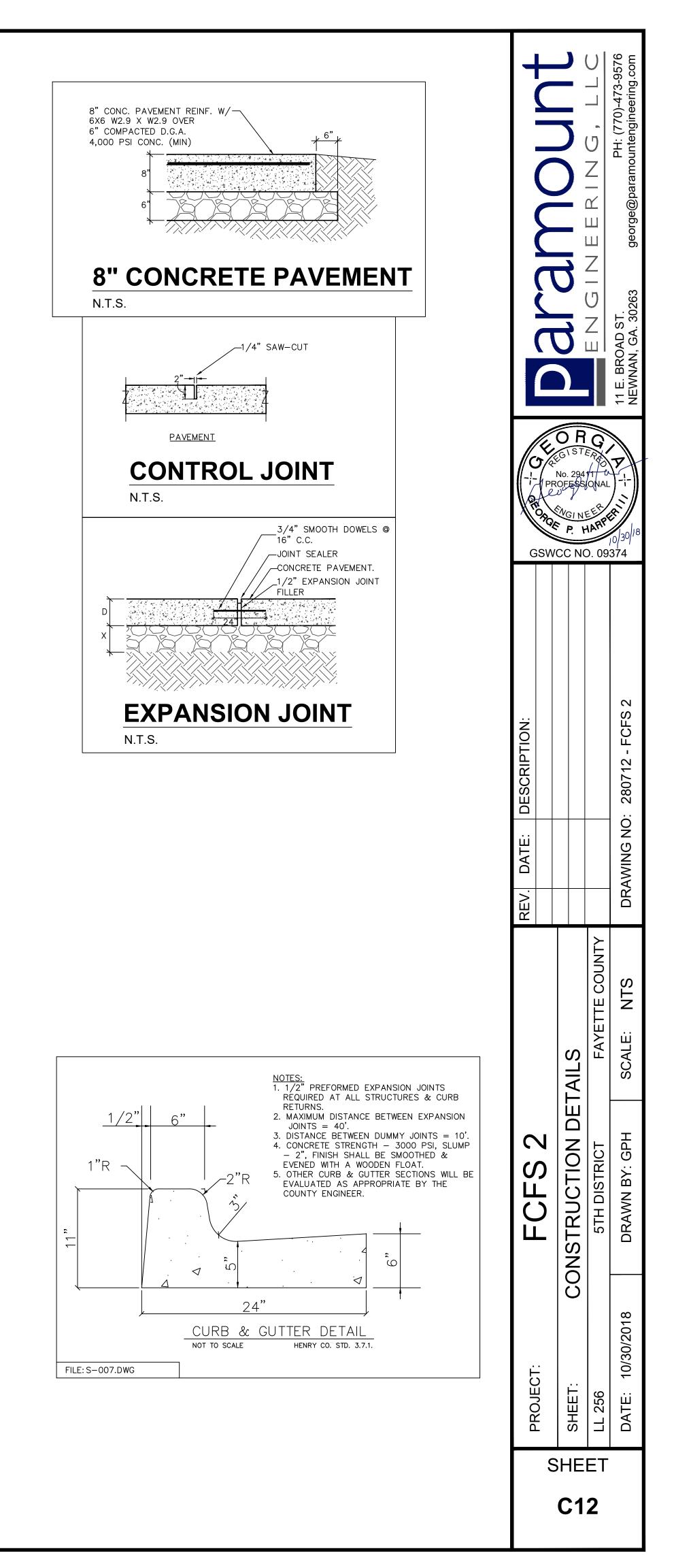


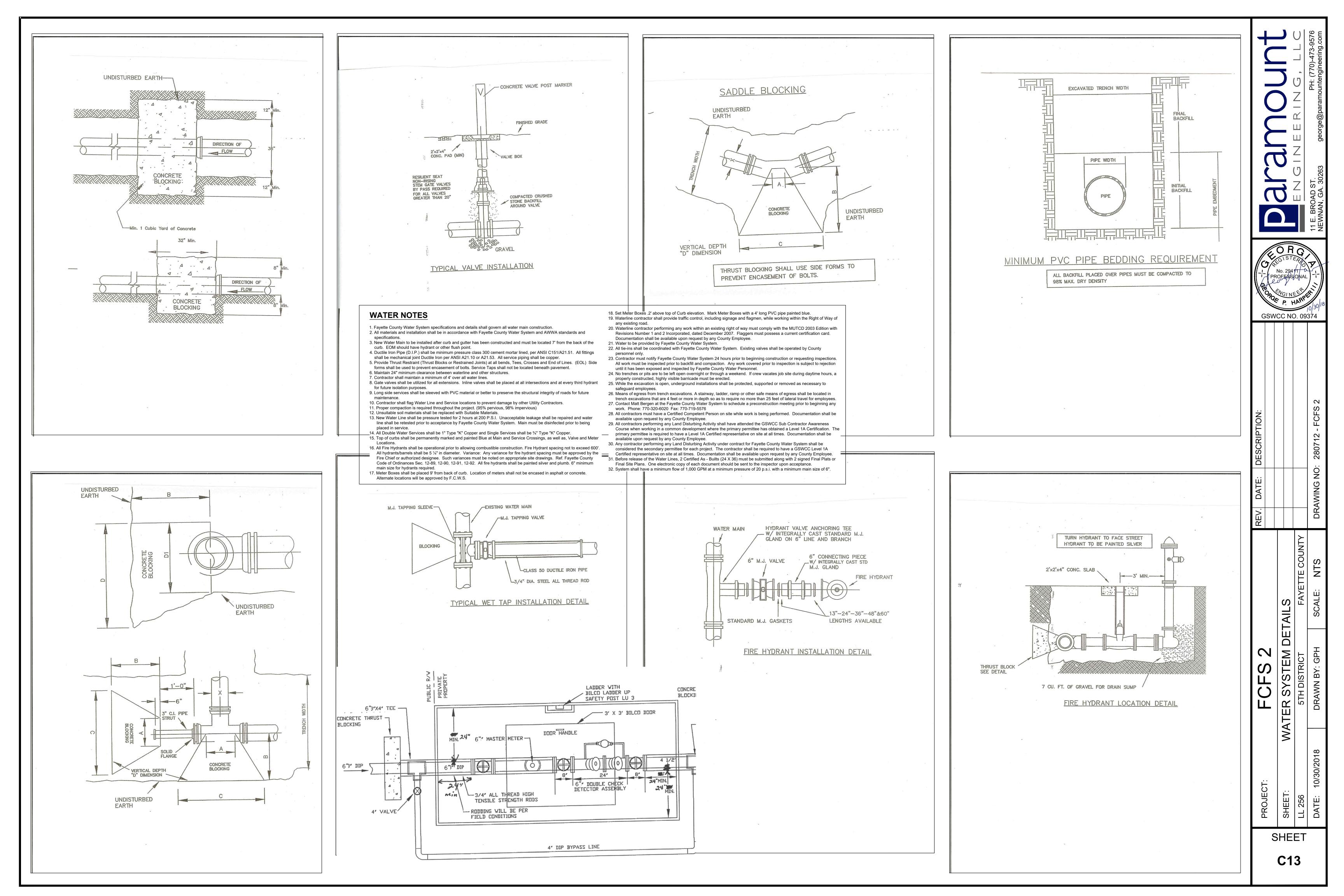


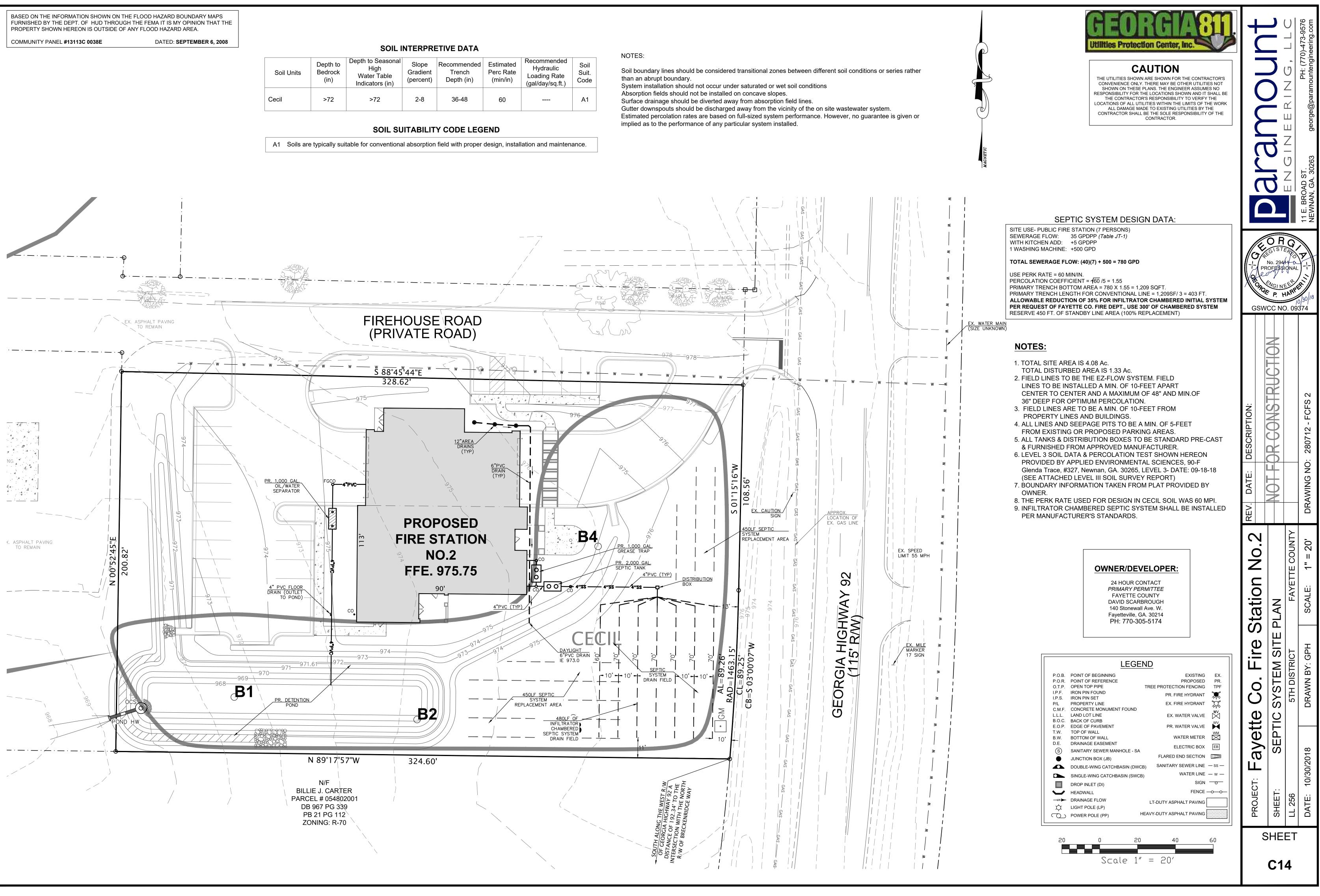


By a blue metal reflective sign which is at least 12 inches in width and 18 inches in length and is erected at a height of seven feet from the bottom of the sign to its ground surface and in such manner that it will not be obscured by a vehicle parked in the space and bearing the following words: "Permit Parking Only," "Tow-Away Zone," and the international symbol for accessibility. The warnings required in this subparagraph shall be centered on the sign, printed in white, and shall occupy not less than 75 percent of the surface area of the sign. The sign required by this subparagraph shall be the official authorized sign for parking place designations for persons with disabilities in this state.

# HANDICAP SIGN DETAIL







commended Trench Depth (in) Estimated Perc Rate (min/in)		Recommended Hydraulic Loading Rate (gal/day/sq.ft.)	Soil Suit. Code
36-48	60		A1

### DESIGN CRITERIA:

1.	BUILDING CODE - INTERNATIONAL BUILDING CODE 2012 WITH
	<ul> <li>A. RISK CATEGORY &amp; IMPORTANCE FACTORS:</li> <li>B. RISK CATEGORY</li></ul>
2.	DESIGN DEAD LOADS: A. ROOF
3.	DESIGN LIVE LOADS*: A. ROOF
4.	WIND LOADS:A. ULTIMATE WIND SPEED.B. DIRECTIONALITY FACTOR (Kd).C. EXPOSURE CATEGORY.C. EXPOSURE CATEGORY.D. ENCLOSURE CLASSIFICATION.E. GUST EFFECT FACTOR (G).F. COMPONENT AND CLADDING LOADS (100 SQ. FT., ZONES)
	ROOFS NEGATIVE ZONE 1
	WALLS NEGATIVE ZONE 4
6.	EARTHQUAKE LOADS:         A. SITE CLASS.       D         B. Ss =       0         C. S1 =       0         D. SDS =       0         E. SD1 =       0         F. SEISMIC DESIGN CATEGORY.       D
7.	SNOW LOADS: A. GROUND SNOW LOAD

- C. THERMAL FACTOR (Ct)... D. SNOW EXPOSURE FACTOR (Ce).
- RAIN ON SNOW SURCHARGE.
- F. UNIFORM ROOF SNOW LOAD.
- MISCELLANEOUS:
- 1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR OMISSIONS.
- 2. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN OR TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 4. OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
- 5. DO NOT SCALE THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
- 6. THE CONTRACTOR SHALL INFORM THE FOUNDATION ENGINEER, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 7. WHERE A SECTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 8. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS.
- 9. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- 10. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ENCOUNTERED IN THE FIELD WHICH ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.
- 11. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
- 12. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- 13. MINIMUM DEFLECTION REQUIREMENTS:
- A. RAFTERS AND PURLINS UNDER SNOW LOAD, WIND LOA B. RAFTERS AND PURLINS SUPPORTING PLASTER CEILING LOAD, WIND LOAD OR LIVE LOAD ...
- C. FRAME SIDESWAY UNDER 10-YEAR WIND LOAD ...... D. GIRTS UNDER 10-YEAR WIND LOAD.

1. BUILDING CODE - INTERNATIONAL BUILDING CODE 2012 WITH 2014 & 2015 GEORGIA AMENDMENTS.

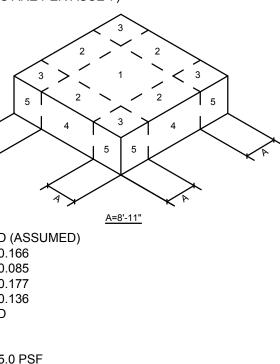
10 PSF TOP CHORD SPSF BOTTOM CHORD

20 PSF



ENCLOSED BUILDING







AD OR LIVE LOADL G UNDER SNOW	./240
L	/360
	_/240
	L/240

### SUBMITTALS:

- 1. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATES MAY IMPACT REVIEW SCHEDULE.
- 2. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
- A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST. B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE ICC-ES, AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
- 3. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. 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 METHODS, TECHNIQUES. SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENT DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS AND CONTRACT SUPPLIERS.
- 4. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES HIM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY OCCUR HEREIN.

FOUNDATIONS:

- SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 2.5 KSF (ASSUMED) FOR INDIVIDUAL COLUMN FOOTINGS AND 2.5 KSF (ASSUMED) FOR CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE LIVE AND DEAD LOAD.
- 2. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NON-EXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS.
- 3. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
- 4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZES AND DIMENSIONS, AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
- 5. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE OF SOIL TO THAT WHICH IS PRESENT AT THIS SITE AND APPROVED BY A SOILS ENGINEER. ROCKS OF A DIAMETER GREATER THAN THAT SPECIFIED SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 12 INCHES IN DEPTH AND SHALL BE COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE.
- 6. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING ENGINEER PRIOR TO CASTING THE CONCRETE.
- 7. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
- 8. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW FINAL GRADE FOR FROST PROTECTION.
- 9. WHEN UNSATISFACTORY OR UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON THE BASIS OF UNIT PRICES SET FORTH IN THE CONTRACT.
- 10. DRAINAGE FILL SHALL BE AN EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE, CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD C33, AND HAVING A GRADATION AS FOLLOWS:

100 % PASSING	A 3/4" SIEVE
10-30 % PASSING	A 1/2" SIEVE
0-10 % PASSING	A 3/8" SIEVE
0-5 % PASSING	A #4 SIEVE

- 11. ANY FILL WITHIN 10'-0" OF THE BUILDING LIMIT SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER FOR PREPARATION.
- 12. BACKFILL AROUND AND OVER FOUNDATION ELEMENTS SHALL BE OF SUITABLE MATERIAL, INSPECTED AND PRE-APPROVED BY THE TESTING ENGINEER.
- 13. BACKFILL AGAINST WALLS SHALL BE PLACED IN 8 INCH LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE OF THE WALL UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM SLABS/FOUNDATION FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED MINIMUM DESIGN COMPRESSIVE STRENGTH. WALLS WITH SLAB-ON-GROUND AT THE TOP OF THE WALL SHALL BE SAFELY SHORED AND BRACED DURING BACKFILLING.
- 14. MAXIMUM SLOPE OF EXCAVATIONS SHALL BE IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT AND ADHERED TO. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
- 15. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- 16. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
- 17. THERE SHALL BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- 18. CONCRETE CAST ON SLOPING SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.
- 19. CONTRACTOR SHALL SUBMIT A QUANTITY AND COST BREAKDOWN FOR EACH OF THE FOOTINGS SUPPORTING THE METAL BUILDING COLUMNS.

FOLLOWING:

### CONCRETE:

1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318 (LATEST ADDITION)

2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY IN ACCORDANCE WITH THE

FOOTINGS & SLABS ON GRADE.

STRENGTH	DENSITY
PSI	PCF
3000	145

3. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR ALL UNIQUE CONCRETE APPLICATIONS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE PROJECT STATE. MIX DESIGN TEST DATA SHALL COMPLY WITH ACI 318 5.3 AND SHALL INCLUDE (AT A MINIMUM) AVERAGE 28 DAY STRENGTH, NUMBER OF SAMPLES, AND STANDARD DEVIATION (IF APPLICABLE). TEST RESULTS SHALL NOT BE MORE THAN 24 MONTHS OLD AT TIME OF SUBMITTAL.

4. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 60.

6. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/SLAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES AND ENDS.

7. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE ACI DETAILING MANUAL.

8. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

9. ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE A MINIMUM LAP OF "B" TYPE (ACI 318) AT SPLICES, UNLESS NOTED OTHERWISE.

10. PROVIDE 3" X 6" X 20 GAGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS-ON-GRADE.

11. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

12. PRODUCTS AND MATERIALS:

- A. TYPE 1 PORTLAND CEMENT SHALL CONFORM TO ASTM-C150. B. AGGREGATES SHALL CONFORM TO ASTM C-33.
- REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60)
- D. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER. F. NON-SHRINK GROUT SHALL BE READY TO USE NON-METALLIC AGGREGATE AND DEVELOP A 7-DAY COMPRESSIVE STRENGTH OF 5000 PSI.

16. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST ADDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE".

17. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE:

#11 BARS AND SMALLER UNFORMED SURFACE IN CONTACT WITH THE GROUND EXTERIOR BASEMENT WALLS INTERIOR BASEMENT WALLS FORMED SURFACES EXPOSED TO EARTH OR WEATHER	3/4 INCHES 3 INCHES 2 INCHES 3/4 INCHES
#6 BARS AND LARGER	2 INCHES
#5 BARS AND SMALLER	1 1/2 INCHES
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHE	R
BEAMS GIRDERS AND COLUMNS	1 1/2 INCHES
SLABS, WALLS, AND JOISTS	3/4 INCHES

18. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

COMPRESSION SPLICES (INCHES)

	TENS	ION SPL	ICES (INC	CHES)	COMP
BAR	TOP BA	ARS	OTHE	R BARS	
SIZE	А	В	А	В	
3	22	28	17	22	12
4	29	37	22	29	15
5	36	47	28	36	19
6	43	56	33	42	23
7	63	81	48	63	25

19. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER'S APPROVAL. WHERE WELDING IS APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL.

20. CORNER BARS SHALL BE OF EQUAL SIZE AND SPACING AS THE MAIN REINFORCING WITH LAP SPLICE LENGTHS EQUAL TO 44 BAR DIAMETERS, MINIMUM.

21. SLAB-ON-GRADE SHALL BE SAW CUT IMMEDIATELY AFTER CONCRETE HARDENS. THE CONTRACTOR SHALL SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT CUT" ® INTERNATIONAL OR SIM.)

22. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP IF CUT WITH A CONVENTIONAL SAW, OR 1" DEEP IF CUT WITH AN EARLY-ENTRY DRY-CUT SAW. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE.

23. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO THE SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED SO THAT JOINTS ARE PLACED IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF THE SLAB IS CRITICAL. REFER TO THE ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.

24. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117, SLAB CLASS 5 (ACI 302) STANDARD TEST METHOD USING F NUMBERS. THE SPECIFIC FLATNESS AND LEVELNESS SHALL BE F/F-35 AND F/L-20.

25. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING, UNLESS NOTED OTHERWISE.

26. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE ACI 318.

27. ALL CONDUIT, SLEEVES AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM TO SECTION 6.3 OF ACI 318 AND THE FOLLOWING:

- A. SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS.
- B. THE CONCRETE COVERING OF PIPES AND SLEEVES SHALL NOT BE LESS THAN 1". CLEAR DISTANCE BETWEEN SUCH PIPES AND SLEEVES SHALL NOT BE LESS THAN 1-1/2".
- CONDUITS AND PIPES PLACED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-THIRD THE THICKNESS OF THE SLAB. IF IT IS NECESSARY TO USE LARGER CONDUIT OR PIPES, THE SLAB SHALL BE THICKENED AND REINFORCING SHALL BE ADDED TO SUPPORT THE ADDITIONAL WEIGHT OF THE CONCRETE.

chitecture.



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DATE	COMMENTS
09/27/18	BID SET/PERMIT SET

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# FAYETTE CO. **FIRE STATION NO. 2**

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA



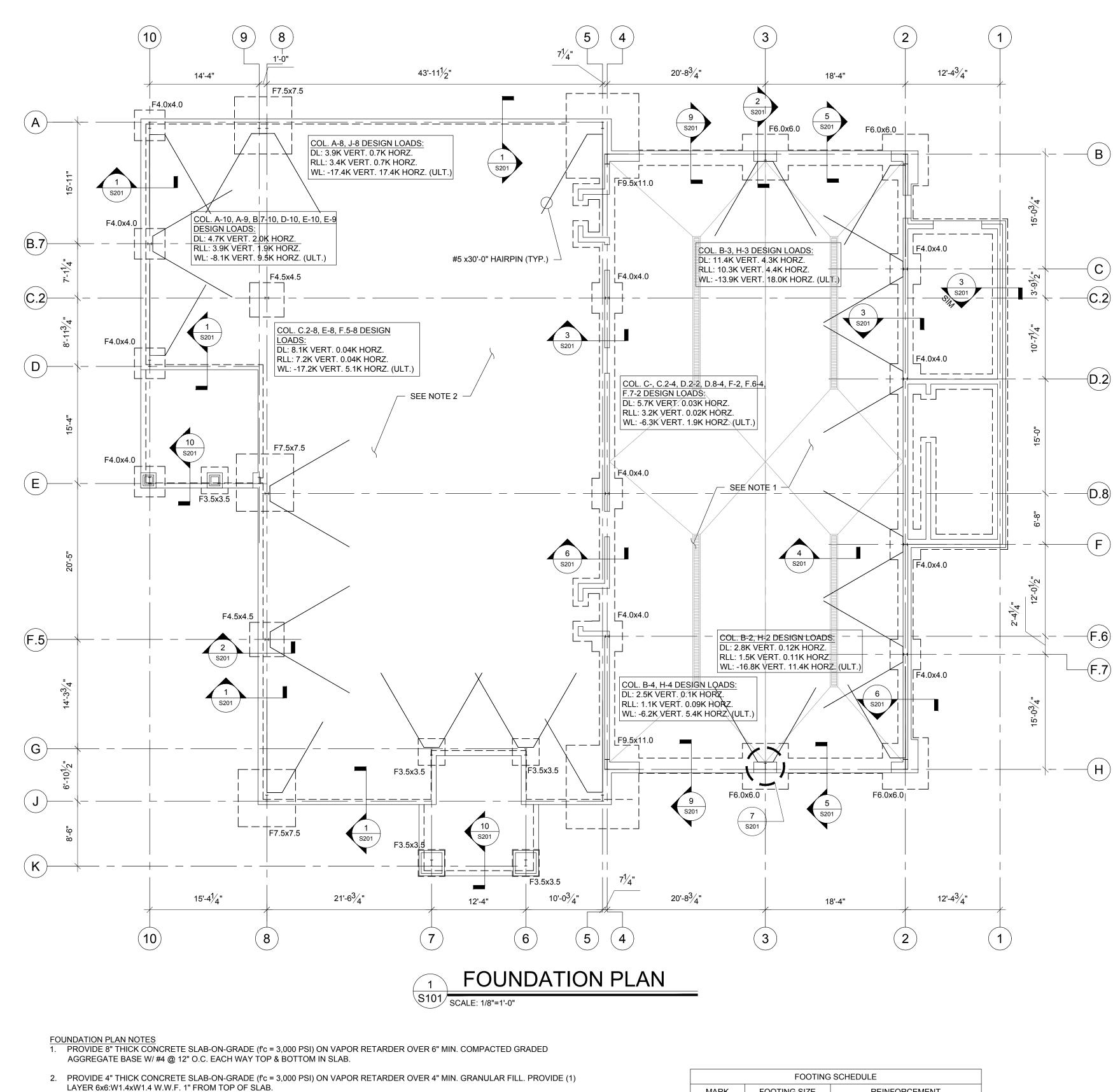
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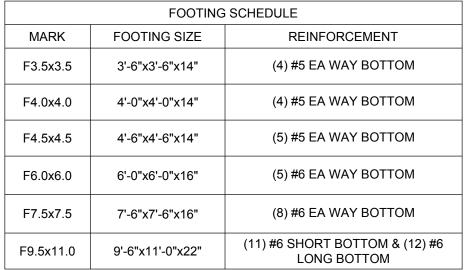
GENERAL NOTES

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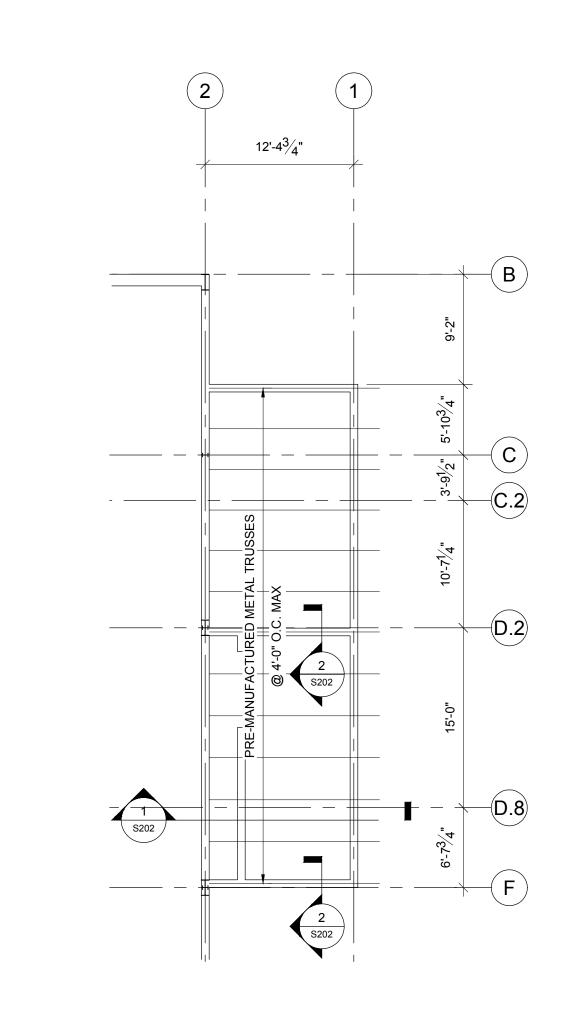
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- 3. FOOTINGS SHALL BE LOCATED ON CENTERLINE OF WALL AND/OR COLUMNS, U.N.O. ALL EXTERIOR COLUMN FOOTINGS ALIGN WITH EDGE OF WALL FOOTING IN BOTH DIRECTIONS.
- 4. T/FOOTING = 1'-4" BELOW T/SLAB ELEVATION, TYP.
- 5. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS WITH MECHANICAL DRAWINGS TO AVOID INTERFERENCE WITH UNDERGROUND PIPING. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS.
- 6. SEE CIVIL/ARCHITECTURAL DRAWINGS FOR EXTERIOR SLAB ON GRADE.
- 7. REFER TO ARCHITECTURAL AND SPECIALTY ENGINEER DRAWINGS FOR LOCATIONS OF LOADS.
- 8. REACTIONS SHOWN ON PLAN ARE PRELIMINARY. FOUNDATION SIZES ARE SUBJECT TO CHANGE UPON REVIEW OF FINAL METAL BUILDING REACTIONS AND ANCHOR BOLT LAYOUTS FROM PRE-ENGINEERED BUILDING MANUFACTURER.
- 9. COORDINATE COLUMN SIZES, LOCATIONS AND BASE PLATE AND ANCHOR ROD LAYOUT W/ METAL BUILDING MANUFACTURER.
- 10. ALL METAL BUILDING COLUMNS TO BE STRAIGHT MEMBERS.



FOOTING SIZES ARE BASED ON ESTIMATED COLUMN REACTIONS AND ARE SUBJECT TO CHANGE. FINAL FOOTING SIZES ARE CONTINGENT ON "FIELD USE" DRAWINGS, INCLUDING ANCHOR BOLT LAYOUTS AND REACTIONS FROM PRE-ENGINEERED BUILDING MANUFACTURER.





- ROOF TRUSS NOTES A. TRUSS SIZE **B. TRUSS CONNECTIONS** C. BRACING REQUIREMENTS AND LOCATIONS
- 3. REFER TO ARCH DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN 5. DESIGN LOADS:

20 PSF LIVE LOAD BOTTOM CHORD: 5 PSF DEAD LOAD

# 2 PARTIAL ROOF FRAMING PLAN S101 SCALE: 1/8"=1'-0"

TRUSS LAYOUT AND PROFILES BY ROOF TRUSS MANUFACTURER.

2. SUBMIT FOR RECORD TO THE ARCHITECT DESIGN CALCULATIONS W/ SHOP DRAWINGS SEALED BY A LICENSED STRUCTURAL ENGINEERING REGISTERED FOR THE STATE OF GEORGIA. THE CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

D. BRIDGING REQUIREMENTS AND LOCATIONS E. ATTACHMENT DETAILS

4. TRUSSES TO BE DESIGNED AND BRACED AS REQUIRED TO PROVIDE CONTINUOUS DIAPHRAGM. TOP CHORD: 10 PSF DEAD LOAD

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FAYETTE CO. FIRE STATION NO. 2	2

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

COMMISSION NO: 1852.00

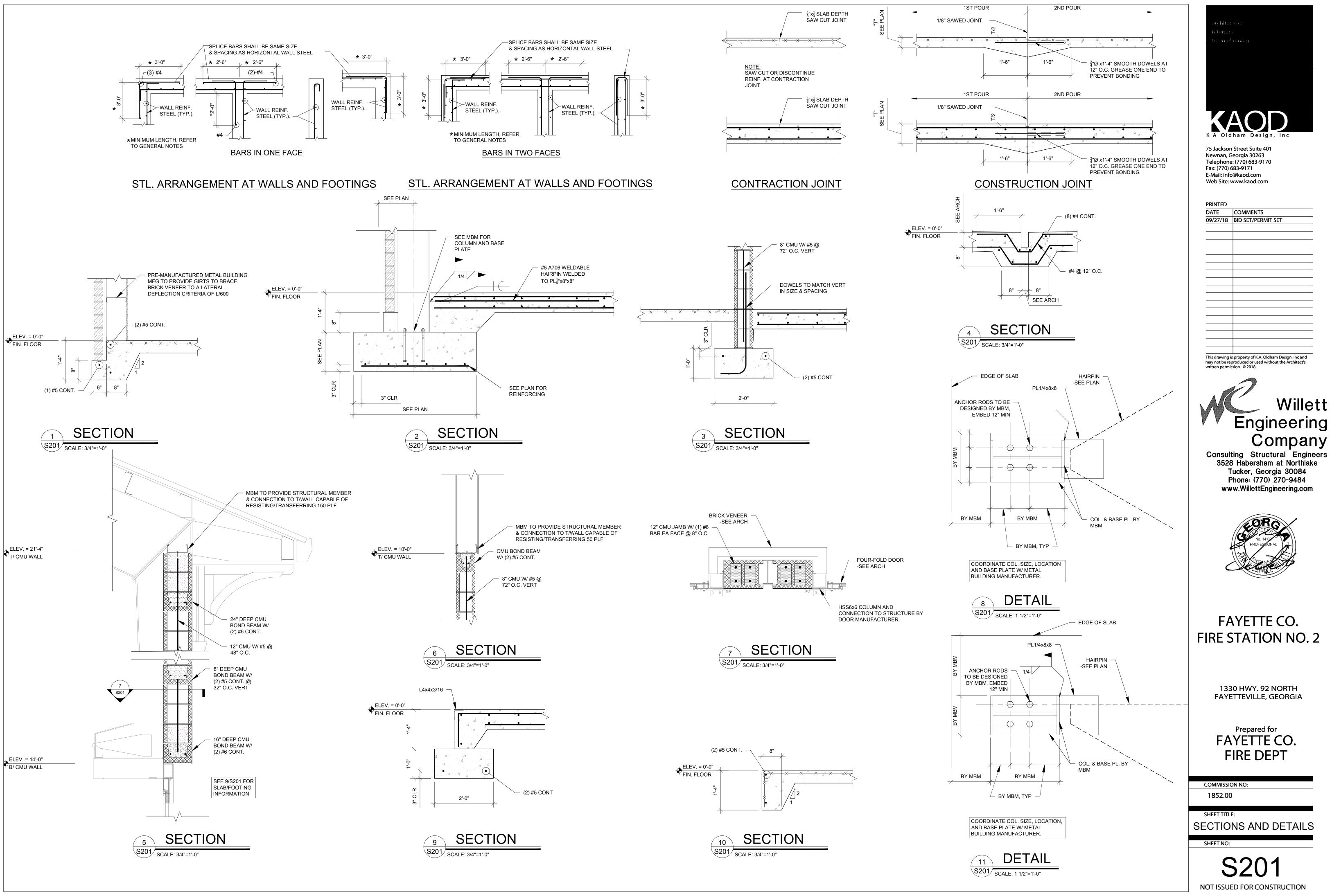
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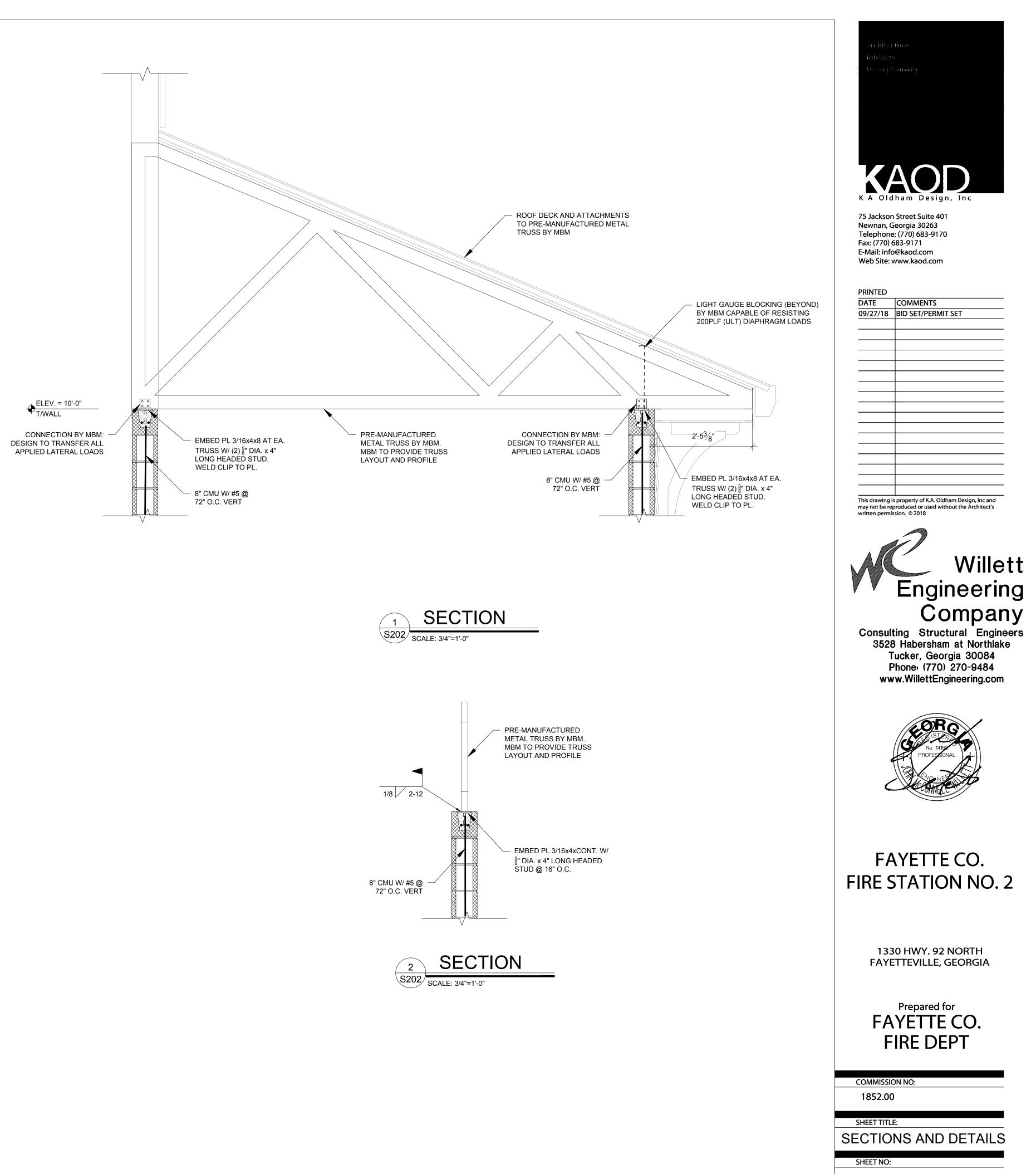
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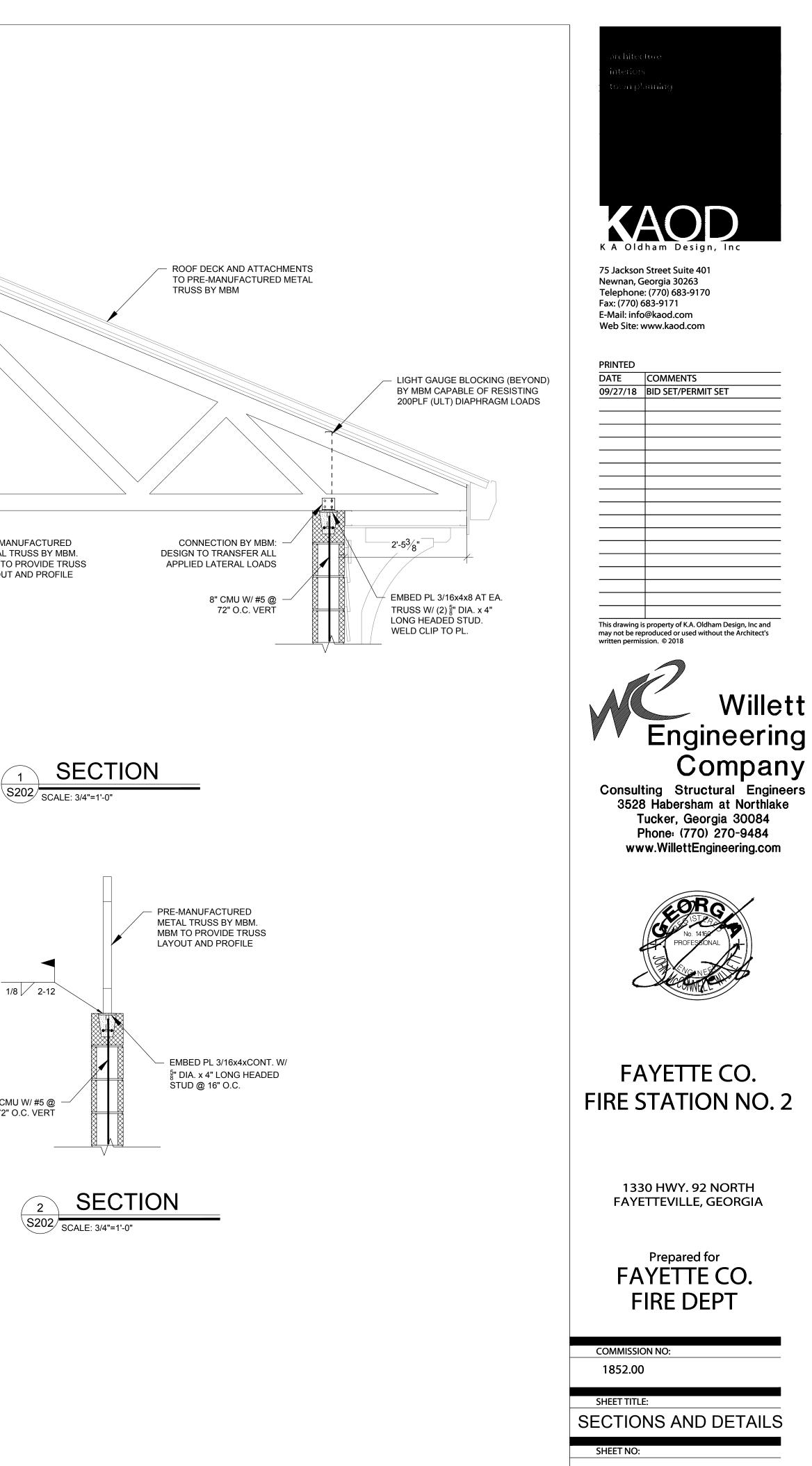
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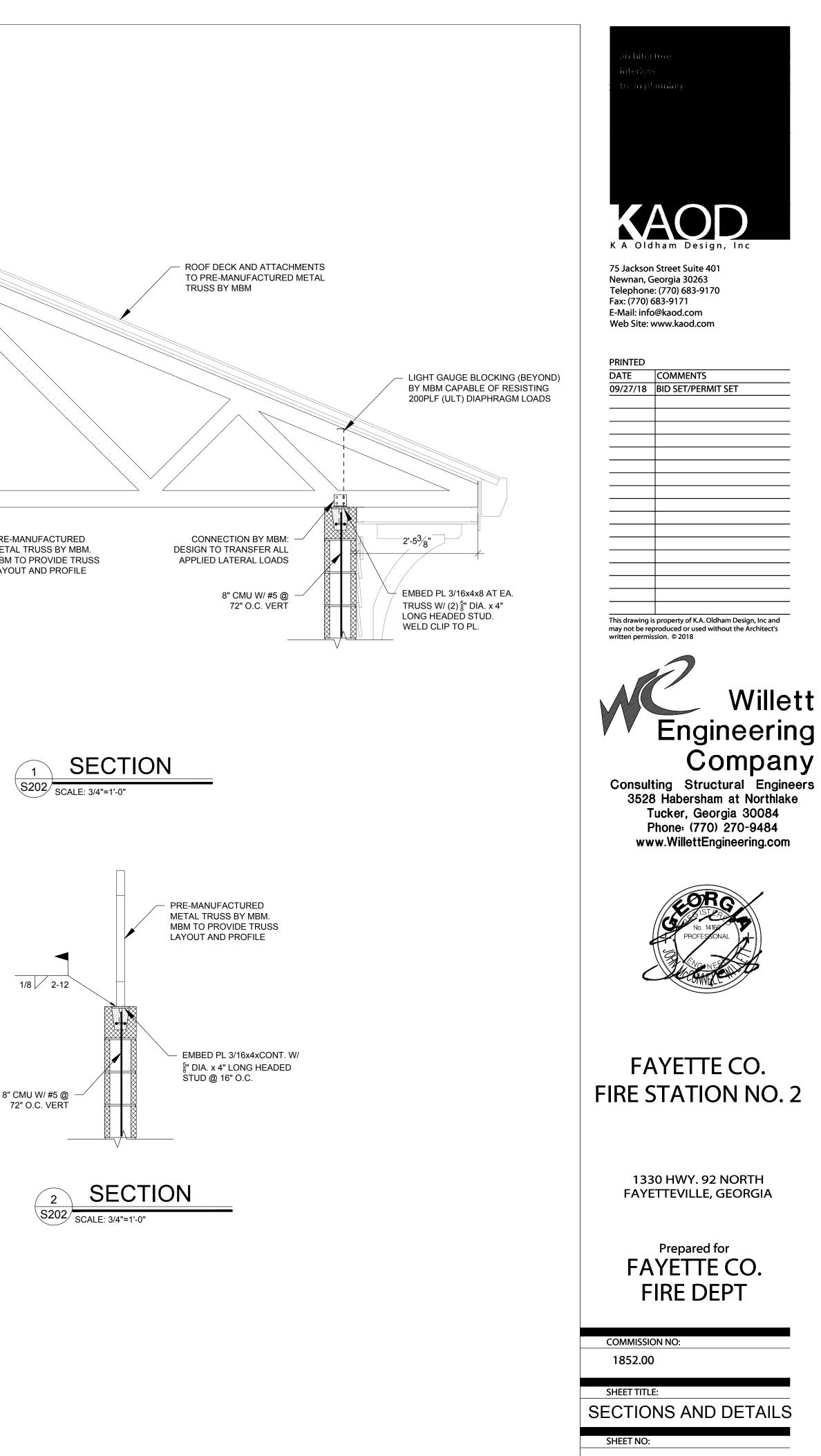
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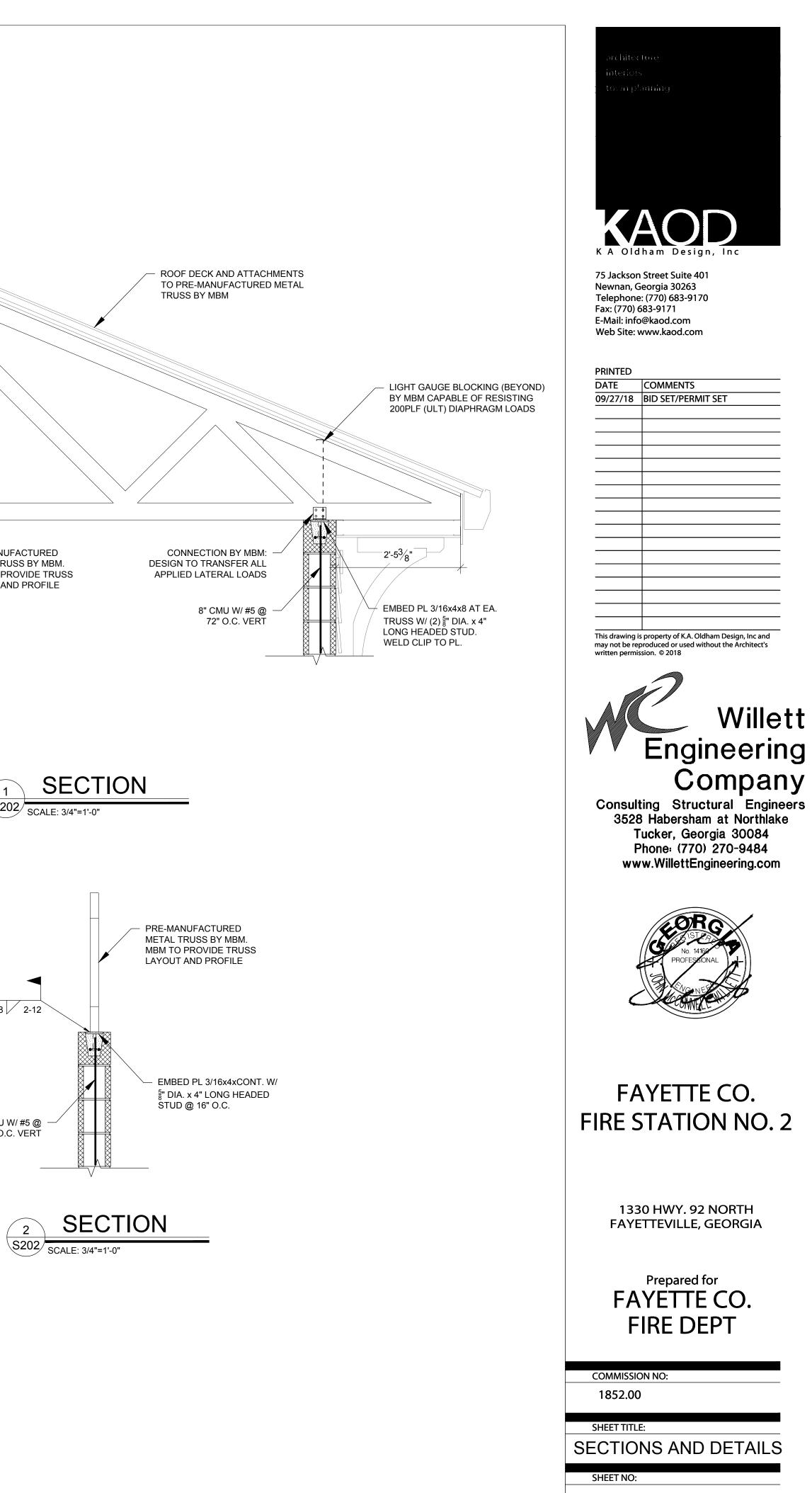




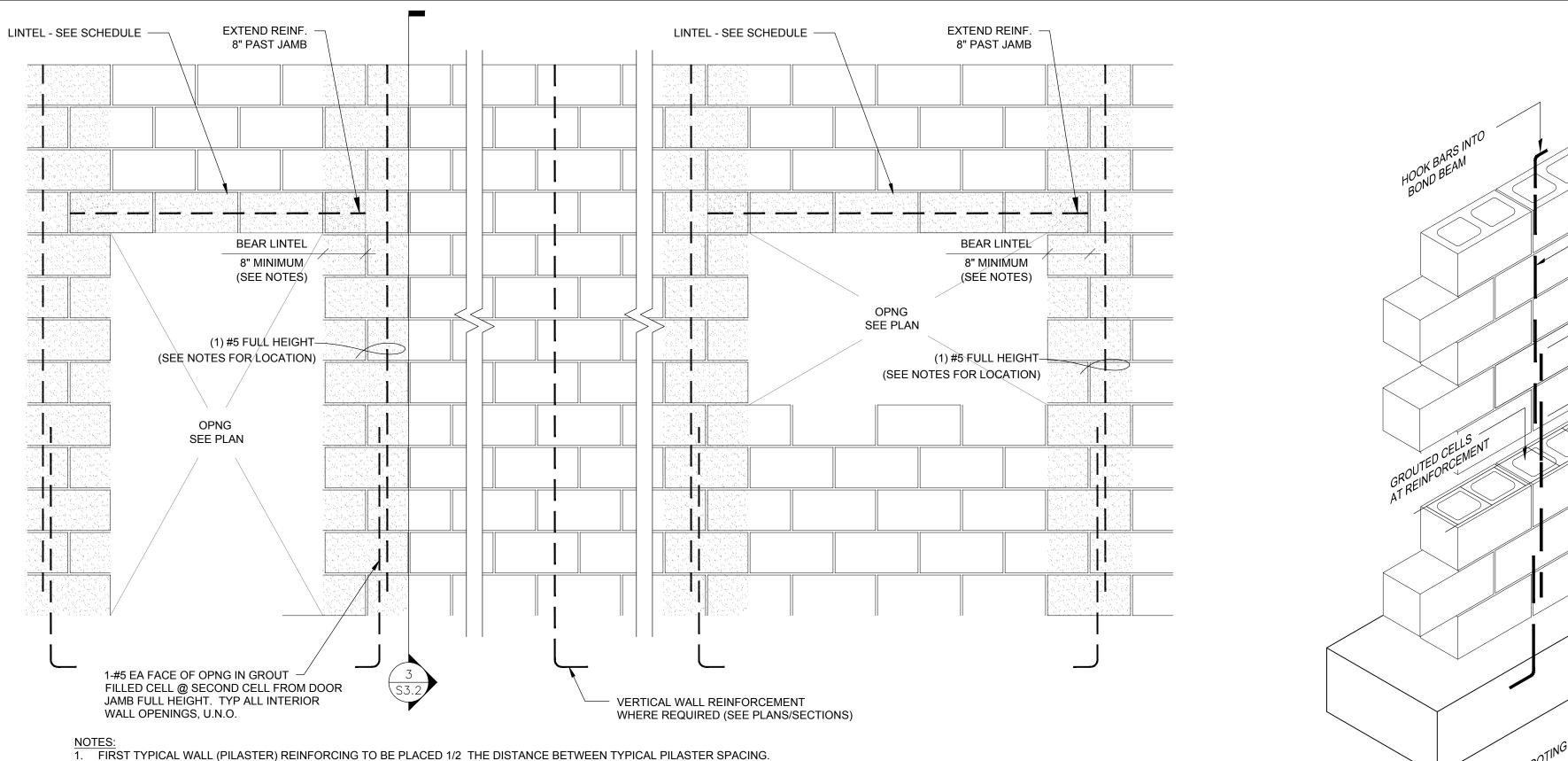






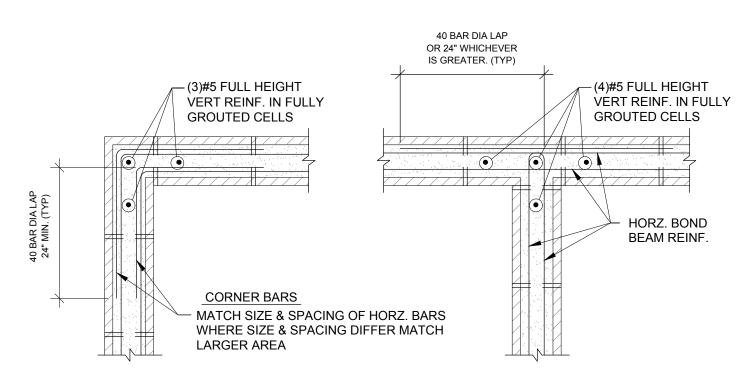


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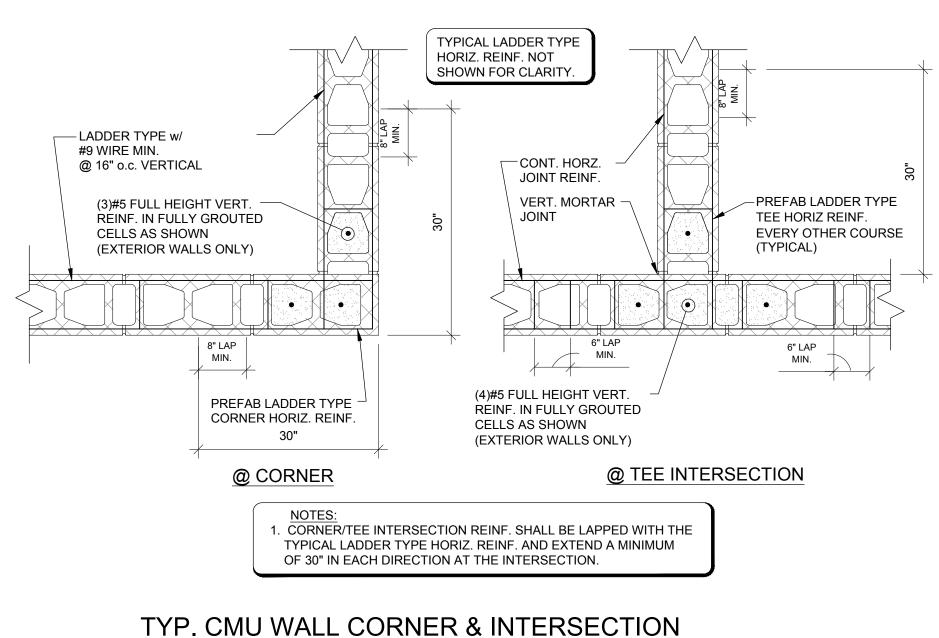


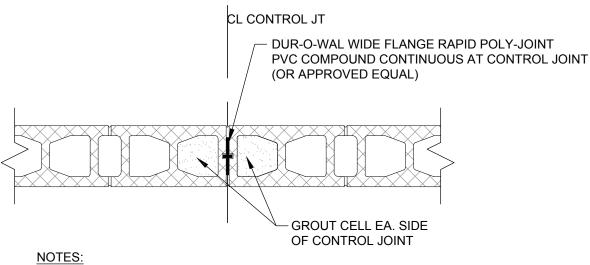
BEAR LINTEL 8" WHEN CELLS BELOW ARE SOLID & DO NOT CONTAIN RECEPTACLES, ETC. PLACE (1) #5 FULL HEIGHT IN LINTEL-BEARING CELL. 3. BEAR LINTEL 16" WHEN FIRST JAMB CELL CONTAINS RECEPTACLE. PLACE (1) #5 FULL HEIGHT IN END LINTEL-BEARING CELL.





## TYP. PLAN OF CORNER & INTERSECTION DETAILS FOR MASONRY BOND BEAMS





1. SPACING OF CONTROL JOINTS IN INTERIOR/EXTERIOR CMU WALL SHALL NOT EXCEED 30'-0".

2. SEE ARCH FOR EXACT LOCATIONS OF CONTROL JOINTS

3. HORIZ. JOINT REINF. TO STOP AT EA. SIDE OF CONTROL JOINT

TYP. CMU CONTROL JOINTS



# MASONRY WALL LINTEL SCHED.

OPENING		MASONRY LINTELS		
WIDTH		LINTEL DEPTH AND REINFORCING **		
MIN.	MAX.	DEPTH	8" WALL	
-	4"-6"	7 5/8"	(2)#5 BOTT.	
4'-7"	11'-0"	15 5/8"	(2)#5 BOTT.	
11'-1" 17'-0" 23 5/8" (2)#5 BOTT.				
** 8" BEARING EACH END FOR U-BLOCK				

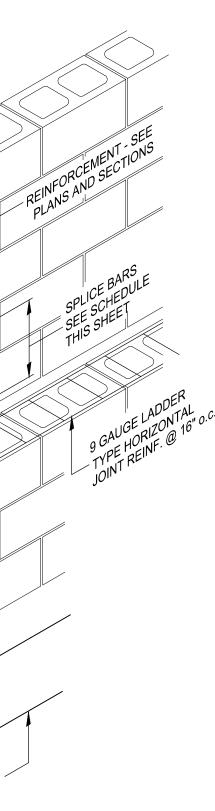
\*\* 8" BEARING EACH END FOR U-BLOCK

- NOTES: 1. THIS SCHEDULE TO BE USED UNLESS NOTED OTHERWISE.
- 2. DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS
- APPLIED TO LINTEL. 3. DO NOT USE THIS SCHEDULE IF HEIGHT OF MASONRY ABOVE OPENING IS LESS THAN HALF OF THE OPENING WIDTH.

## MASONRY WALL LINTEL SCHEDULE

# 7 5/8"

MASONRY LINTEL **REINFORCING CONFIG.** 



### MINIMUM REINFORCING LAP LENGTH SCHEDULE\* BAR SIZE AND LAP LENGTH BAR TYPE

	#3	#4	#5	#6
FILLED 8" CMU CELLS (Single Bar)	12"	15"	23"	43"

## NOTE:

- THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE THEY MAY BE MULTIPLIED BY 1.3 IF LIGHT WEIGHT CONCRETE IS USED.
- 2. THESE VALUES ARE ADEQUATE FOR BARS WITHOUT EPOXY COATING.
- 3. THESE VALUES APPLY TO MASONRY w/ f m = 1,500 PSI.

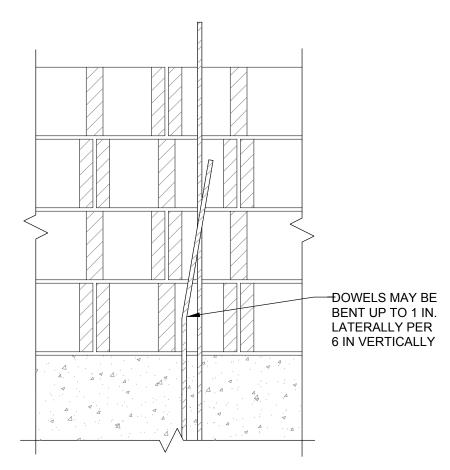
TMS 402/ACI 530/ASCE 5 BUILDING CODES ALLOW OPTIONAL **REINFORCING SPLICES AS FOLLOWS:** - A WELDED SPLICE WHEREBY BARS ARE BUTTED AND WELDED TO DEVELOP IN TENSION 125 PERCENT OF THE YIELD STRENGTH OF THE BAR.

- MECHANICAL CONNECTIONS THAT ARE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BAR.

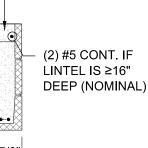
## LOW LIFT GROUTING PROCEDURE:

- A. CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
- B. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
- C. FILL CELLS TO 11/2" BELOW TOP COURSE.
- D. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
- E. VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE COURSE BELOW THE TOP OF THE WALL AND 4'-0" o.c. (MAX.)

# TYP. DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION



# TYP. DOWEL BENDING DETAIL





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# Willett Engineering Company

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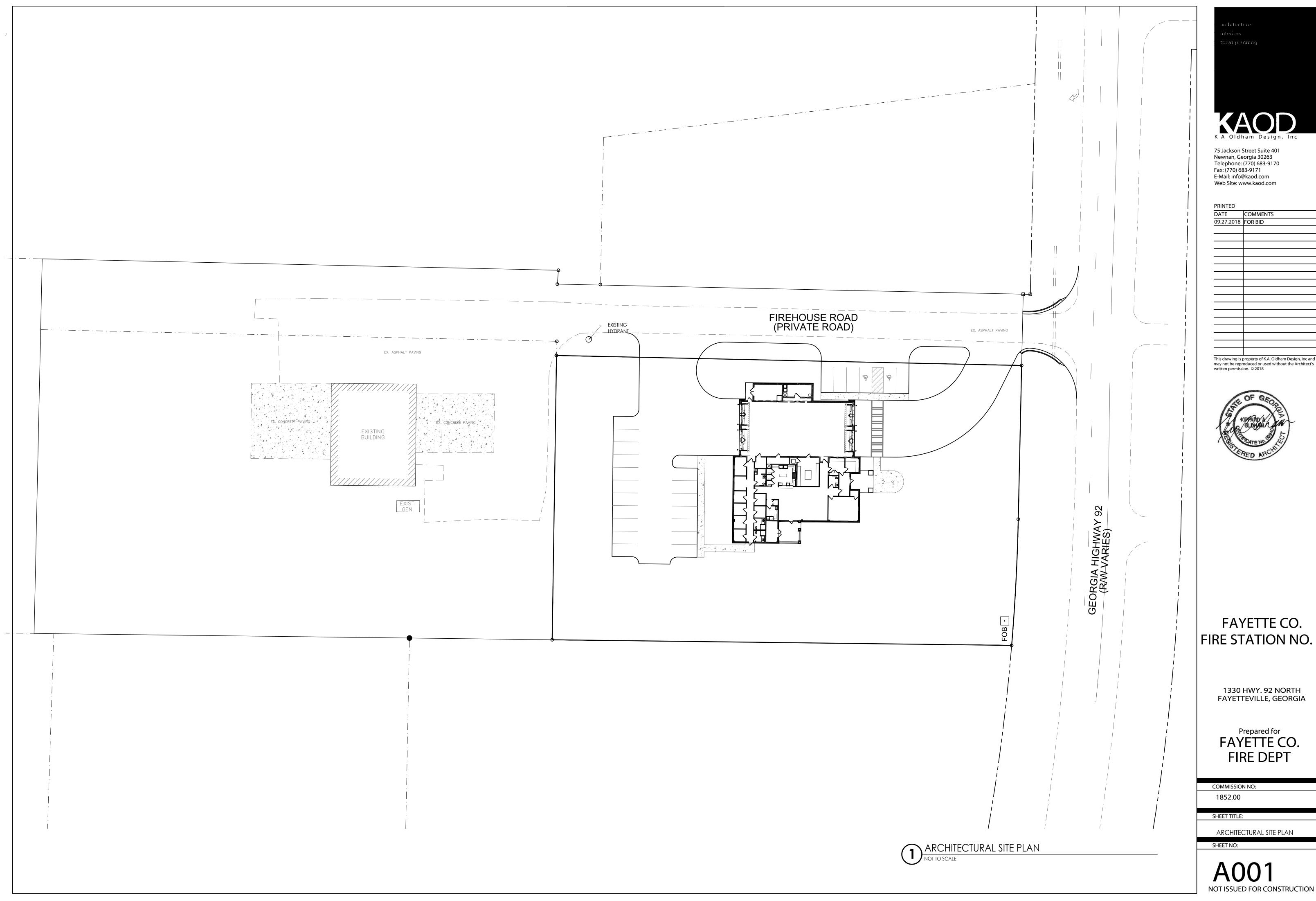
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SECTIONS AND DETAILS

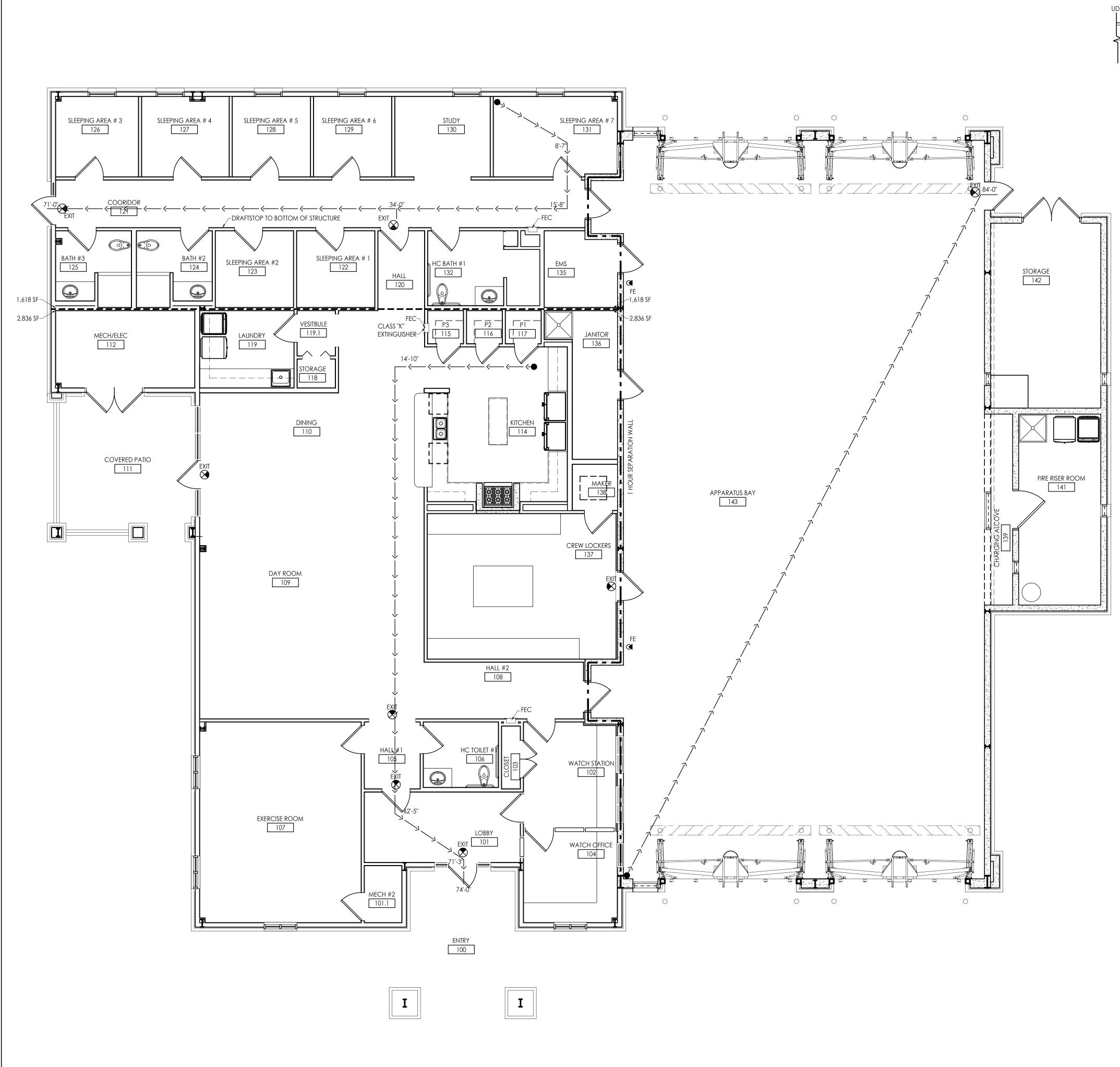
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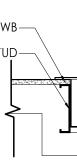
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# FAYETTE CO. FIRE STATION NO. 2





## FIRE EXTINGUISHER CABINET

FULLY-RECESSED FLAT TRIM FIRE EXTINGUISHER CABINET. FULL GLASS; STAINLESS STEEL. REFER TO MFR SPECIFICATIONS FOR DIMENSIONS

## LIFE SAFETY NOTES

1. PROVIDE (1) FIRE EXTINGUISHER PER 3000 SF OF OCCUPIABLE SPACE OR MAXIMUM 75'-0" OF TRAVEL. REFER TO PLANS FOR LOCATIONS MARKED F.E.C. FINAL LOCATIONS TO BE VERIFIED BY LOCAL FIRE INSPECTOR.

2. REFER TO SPECIFICATIONS FOR DETAILED INFORMATION ON FIRE EXTINGUISHERS.

- 3. TOP OF FIRE EXTINGUISHER MOUNT SHALL BE 4'-8" A.F.F.
- 4. EMERGENCY LIGHTING REQUIRED IN ALL RESTROOM; SEE ELECTRICAL PLANS FOR LOCATIONS

# LIFE SAFETY LEGEND

$\rightarrow \longrightarrow \longrightarrow$	EGRESS PATH
F.E.C.	FIRE EXTINGUSHER CABINET
	1 HR FIRE RATED WALLS
	DRAFTSTOP PER NFPA 8.6.11.1 (2)
€	EMERGENCY EXIT LIGHT

OCCUPANCI/CON	STRUCTION REQUIREMENTS
IBC 2012RESIDENTIAL (R2)NFPA 101 2012LODGING/BORDING HOUSE	IBC 2012 STORAGE (S2) NFPA 101 2012 STORAGE (ORDINARY HAZARD
CONSTRUCTION TYPE (IBC)	CONSTRUCTION TYPE (IBC)
VA SPRINKLED	VA SPRINKLED
FIRE RATINGS	FIRE RATINGS
STRUCTURAL FRAME:0 HOURSBEARING WALLS - EXTERIOR:0 HOURSBEARING WALLS - INTERIOR:0 HOURSFLOOR CONSTRUCTION:0 HOURSROOF CONSTRUCTION:0 HOURS	STRUCTURAL FRAME:0 HOURSBEARING WALLS - EXTERIOR:0 HOURSBEARING WALLS - INTERIOR:0 HOURSFLOOR CONSTRUCTION:0 HOURSROOF CONSTRUCTION:0 HOURS
OCCUPANCY SEPARATION (IBC 508.4)	OCCUPANCY SEPARATION (IBC 508.4)
RESIDENTIAL/STORAGE (S2) SPRINKLED	RESIDENTIAL/STORAGE (S2) SPRINKLED
1 HOUR FIRE SEPARATION	1 HOUR FIRE SEPARATION
AREA ALLOWED (IBC 503)	AREA ALLOWED (IBC 503)
RESIDENTIAL (R2)	STORAGE (S2)
PROVIDED: 4,454	PROVIDED: 3,682
ALLOWED: 12,000	ALLOWED: 21,000
HEIGHT ALLOWED (IBC 503) (504.2)	HEIGHT ALLOWED (IBC 503)
RESIDENTIAL (R2)	STORAGE (S2)
PROVIDED: 1 STORY/40 FEET	PROVIDED: 1 STORY/40 FEET
ALLOWED: 4 STORIES/60 FEET	ALLOWED: 4 STORIES
OCCUPANT LOAD FACTOR	OCCUPANT LOAD FACTOR
NFPA 101 2012: 26.1.1.1	NFPA 101 2012: 7.3.1.2
OCCUPANT LOAD -16	OCCUPANT LOAD -NA
EGRESS REQU	JIREMENTS (NFPA)
LODGING/BOARDING HOUSES	STORAGE
EGRESS WIDTH FACTOR (7.3.3.1):	EGRESS WIDTH FACTOR (7.3.3.1):
LEVEL COMPONENTS = 0.2" PER PERSON	LEVEL COMPONENTS = 0.2" PER PERSON
EGRESS WIDTH REQUIRED: 3.2" (36" MIN)	EGRESS WIDTH REQUIRED: 3.2" (36" MIN)
EGRESS WIDTH PROVIDED:	EGRESS WIDTH PROVIDED:
36" MIN AT ALL DOORS/CORRIDORS	36" MIN AT ALL DOORS/CORRIDORS
TRAVEL DISTANCE :	TRAVEL DISTANCE :
REQUIRED: 0'	REQUIRED: 400'
PROVIDED: 71'	PROVIDED: 84'
COMMON PATH OF TRAVEL:	COMMON PATH OF TRAVEL:
REQUIRED: 0'	REQUIRED: 100'
PROVIDED: 34''	PROVIDED: 84'
DEAD-END CORRIDOR:	DEAD-END CORRIDOR:
REQUIRED: 0'	REQUIRED: 100'
PROVIDED: 0'	PROVIDED: 0'
EXITS REQUIRED: 1 (26.1.3.2.1)	EXITS REQUIRED: 1 (42.2.4.1)
EXITS PROVIDED: 3	EXITS PROVIDED: 1
MIN EXIT SEPARATION DISTANCE: REQUIRED: 0' PROVIDED: 114'	MIN EXIT SEPARATION DISTANCE: REQUIRED: NA
PRIMARY MEANS OF ESCAPE MUST COMPLY WITH CHAPTER 24 (26.2.1.1.1) MEANS OF ESCAPE (24.2.2.1.2) REQUIRED: 1 PER SLEEPING ROOM PROVIDED:1 PER SLEEPING ROOM	

# LIFE SAFETY PLAN SCALE: 3/16"=1'-0"



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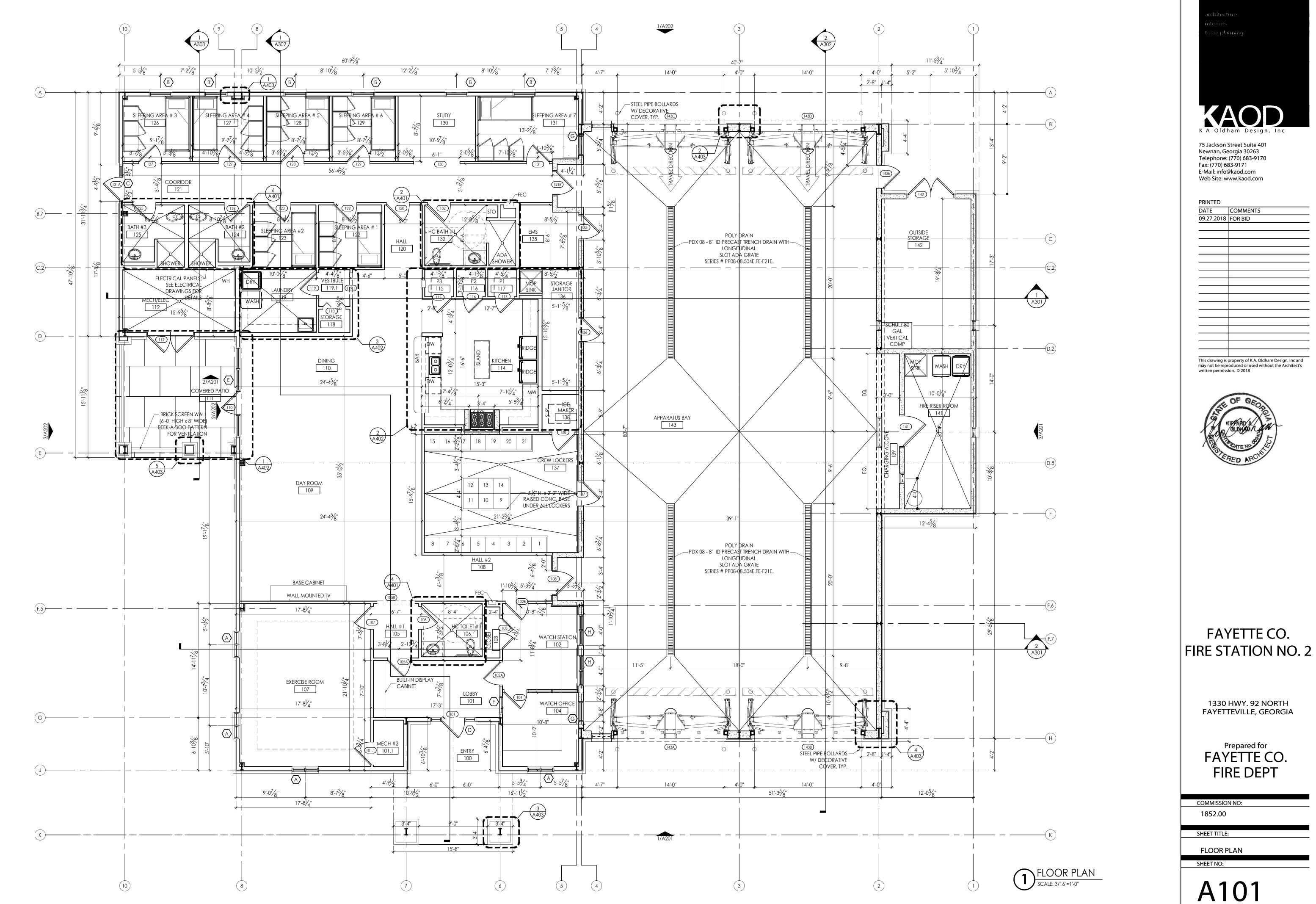
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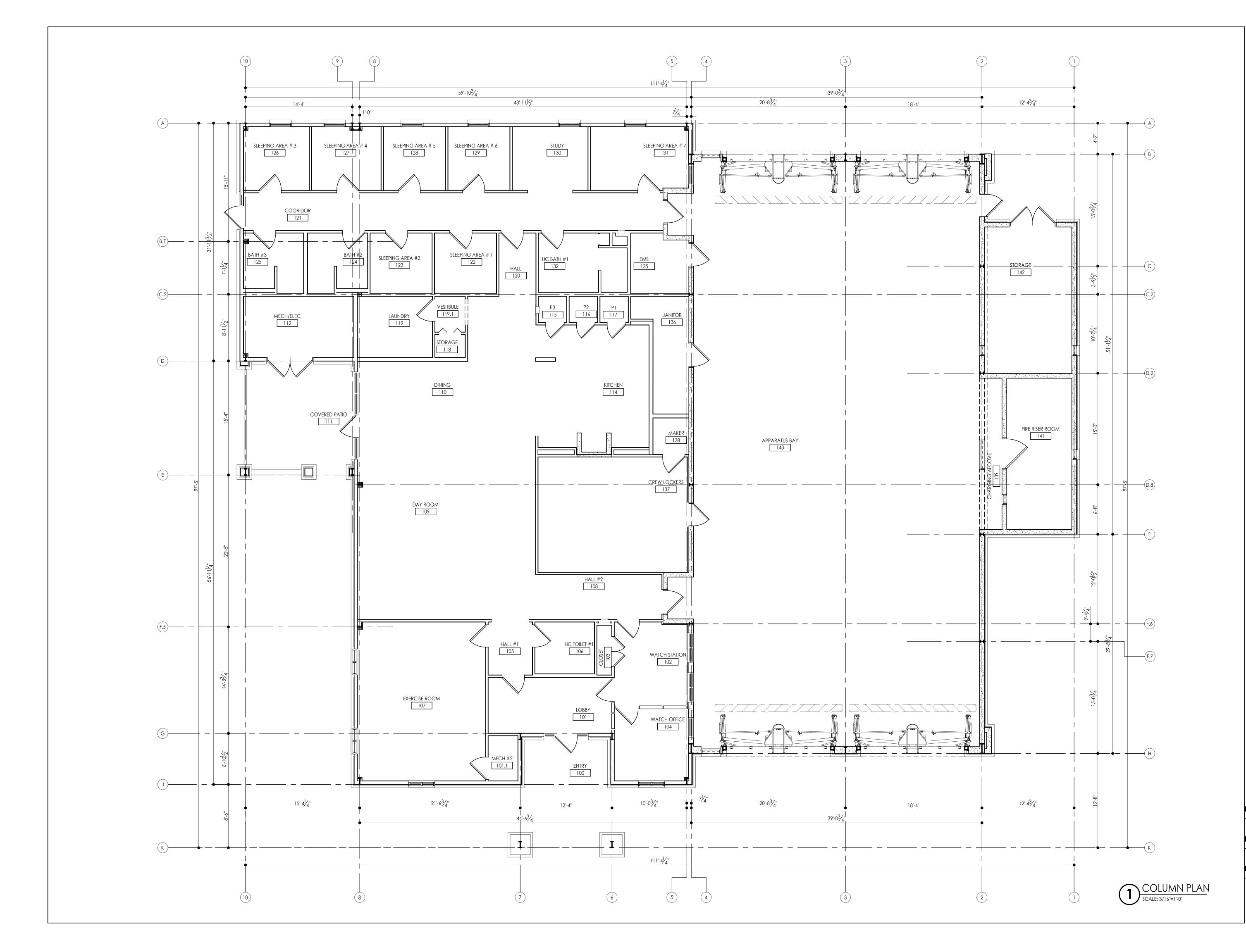
LIFE SAFETY PLAN

SHEET NO:

A100 NOT ISSUED FOR CONSTRUCTION



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# FAYETTE CO. FIRE STATION NO. 2

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

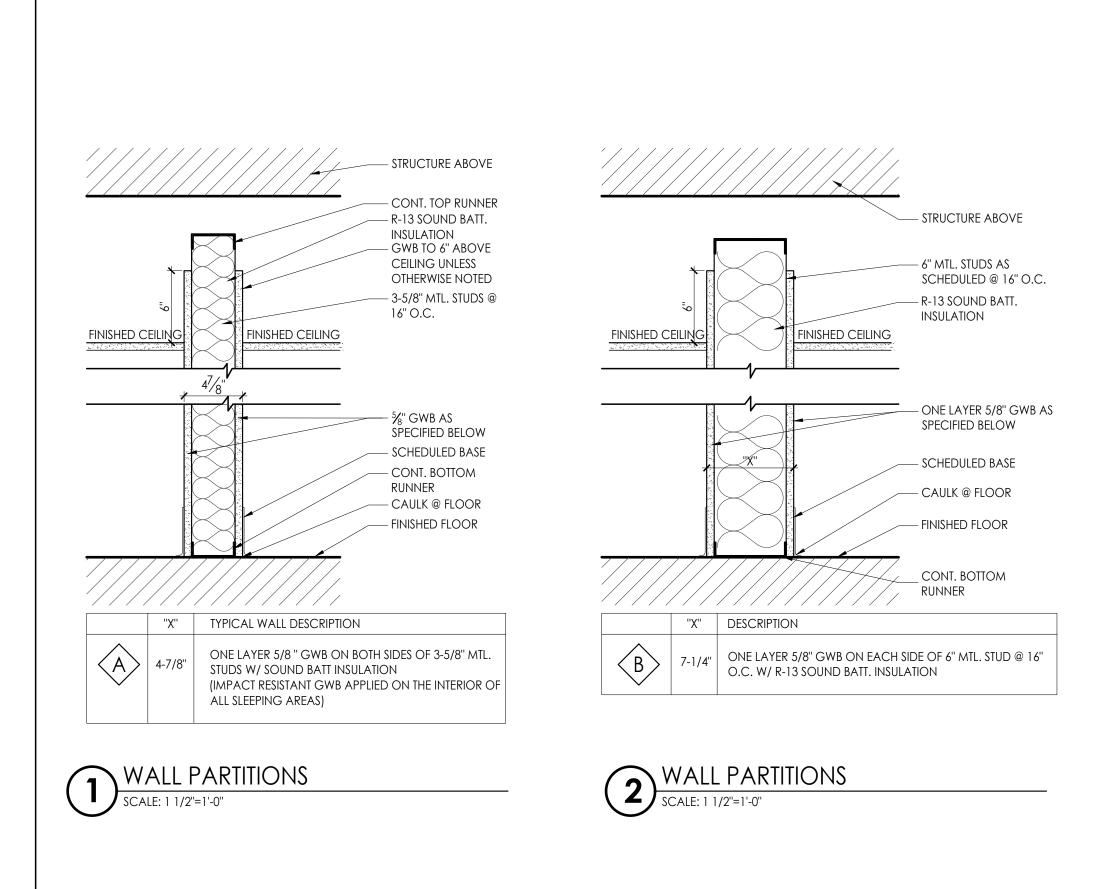
COMMISSION NO: 1852.00

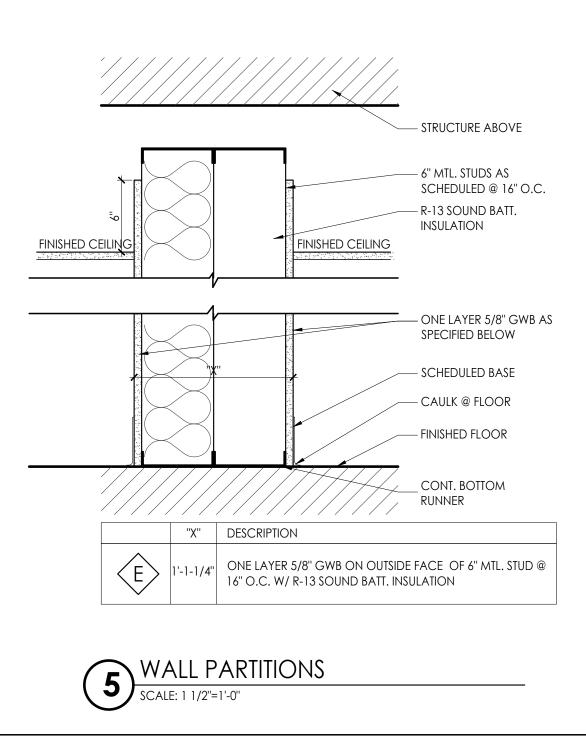
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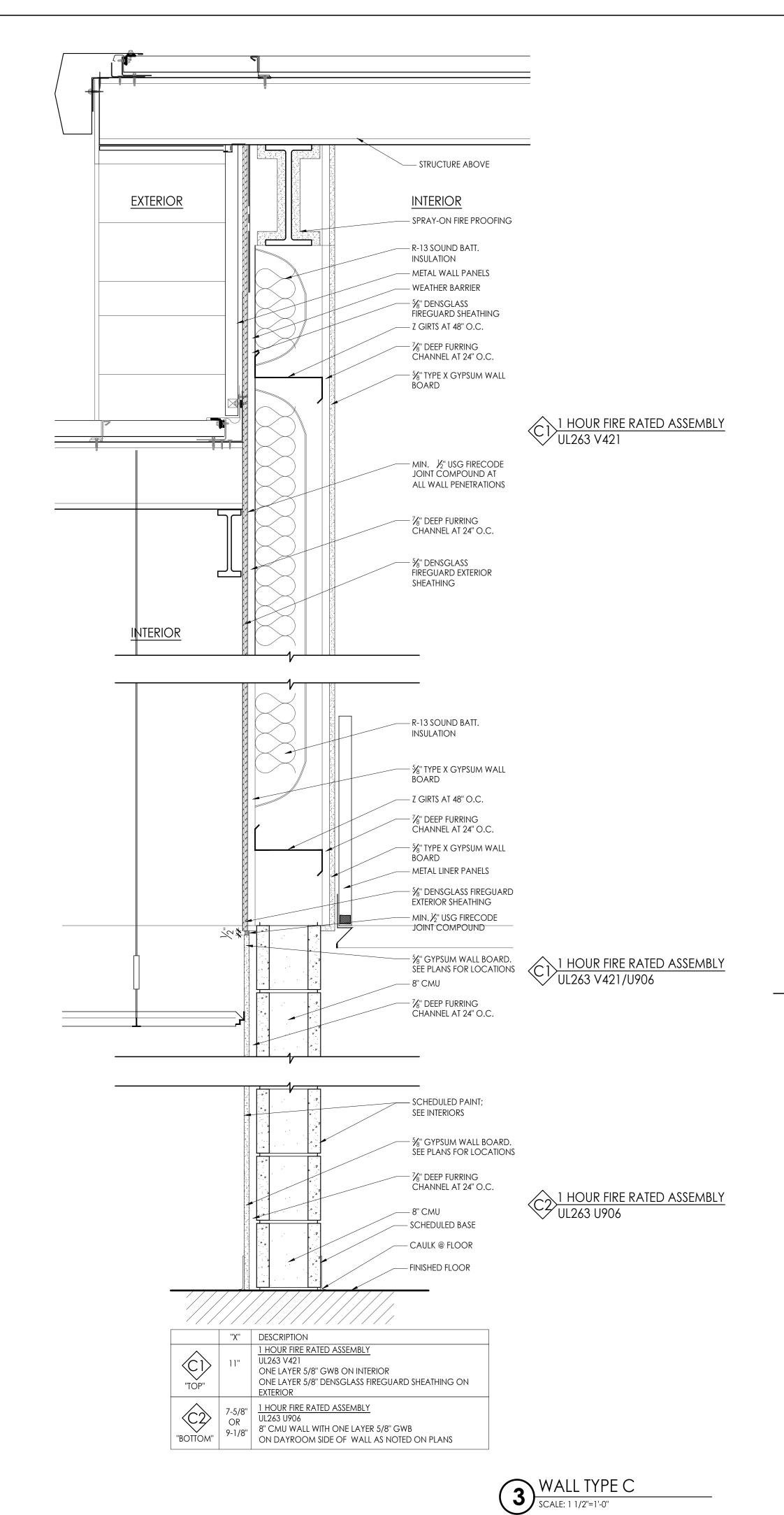
FLOOR PLAN

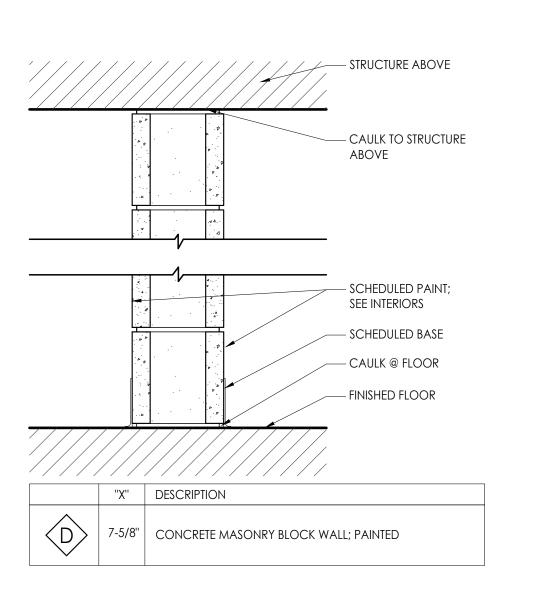
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A102 NOT ISSUED FOR CONSTRUCTION

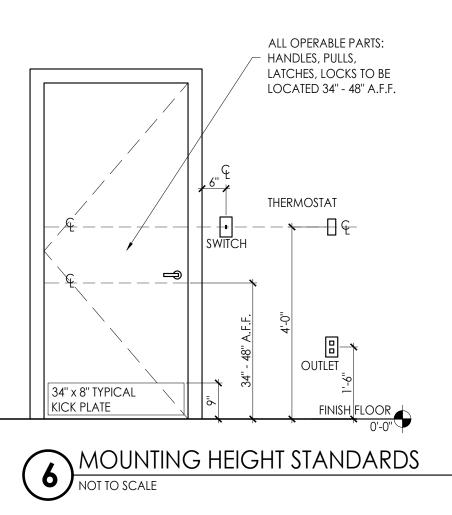


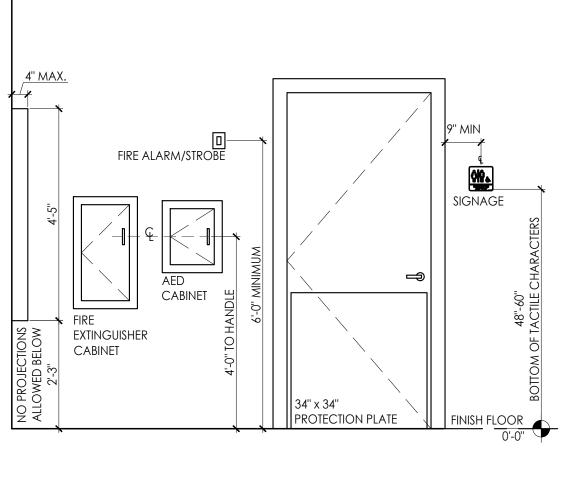






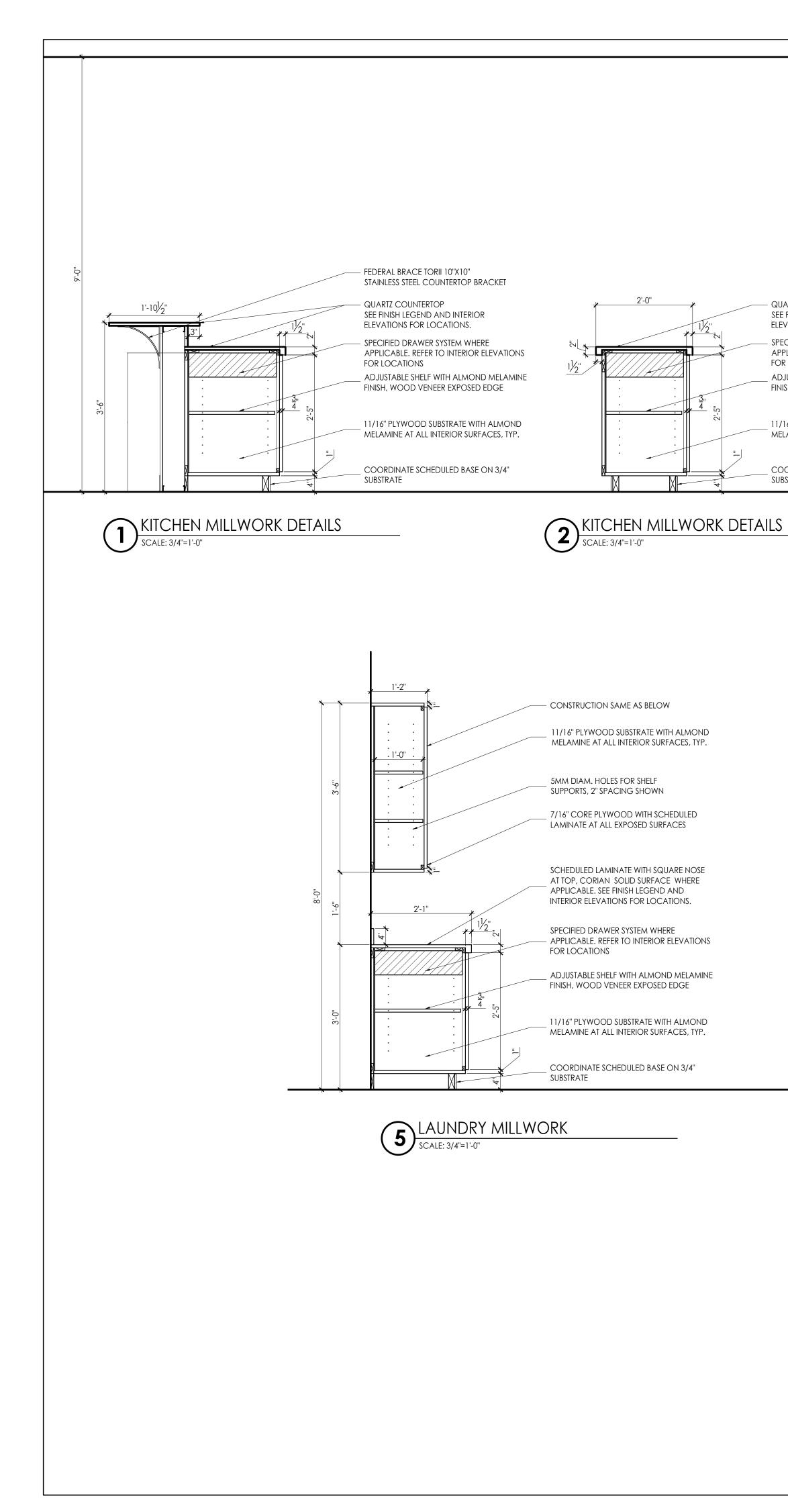
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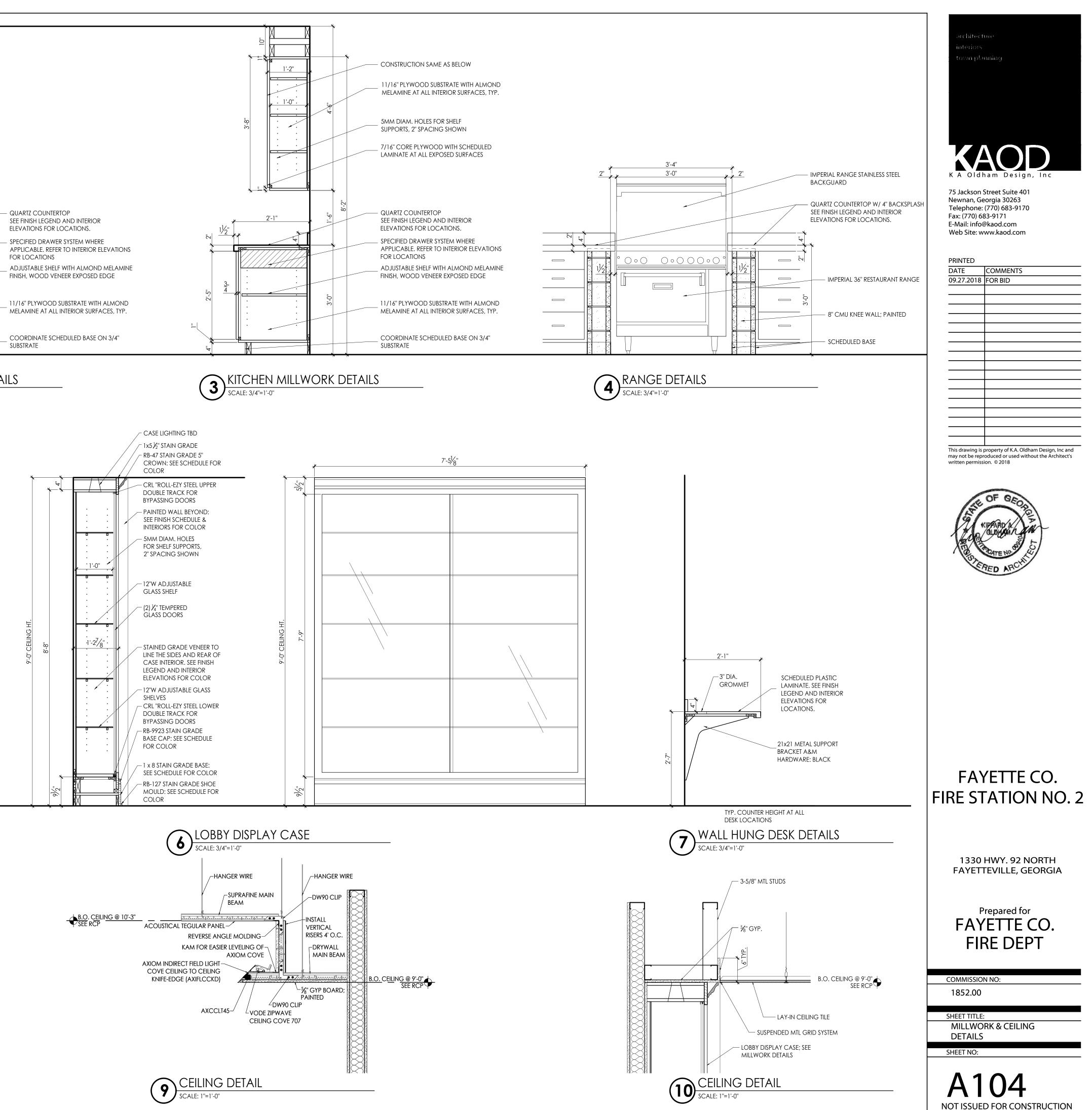


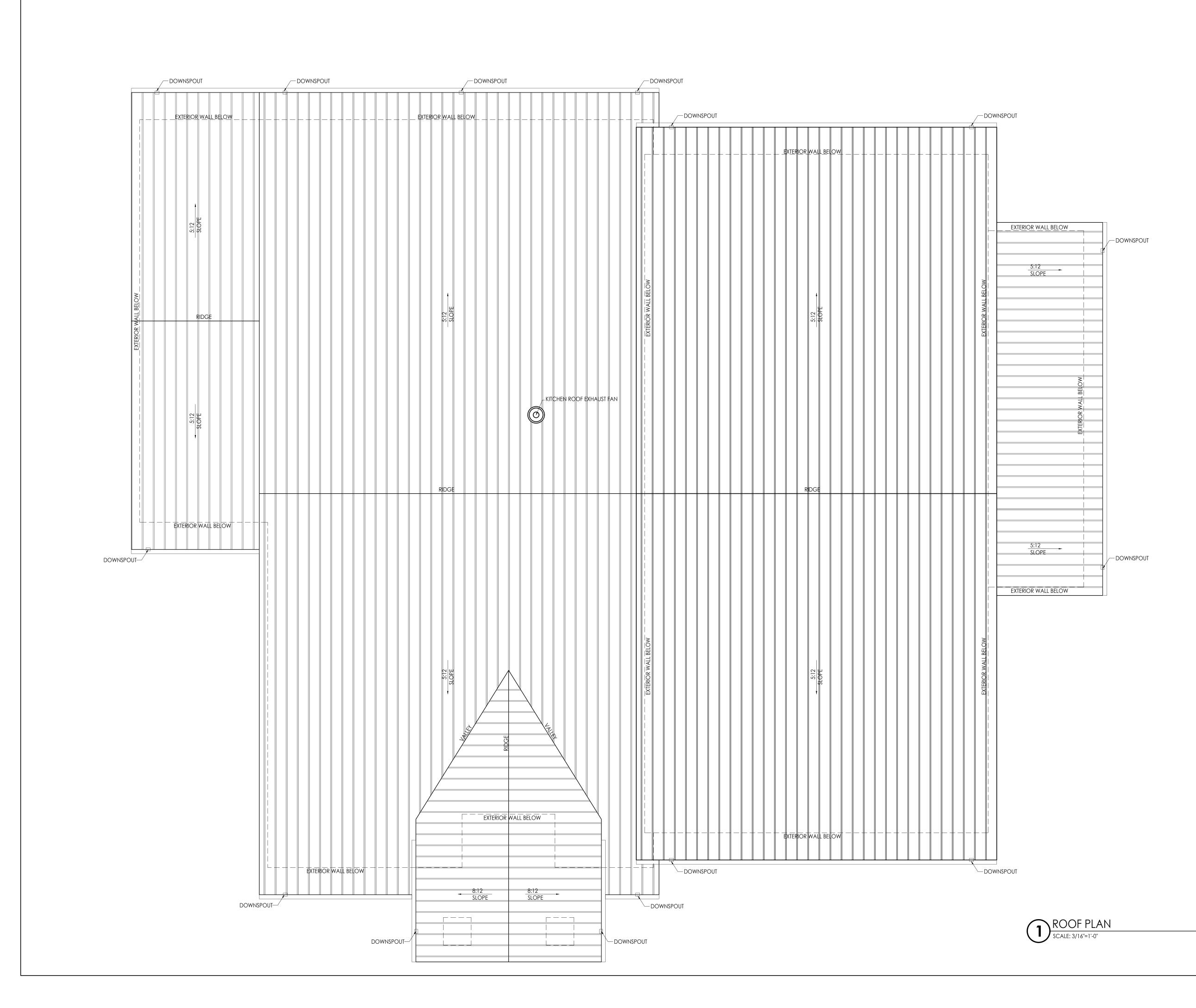


**MOUNTING HEIGHT STANDARDS** NOT TO SCALE

architecture interiors town planning
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ALL
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1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA
Prepared for FAYETTE CO. FIRE DEPT
COMMISSION NO: 1852.00
SHEET TITLE:
WALL PARTITIONS & PROJECT STANDARDS SHEET NO:
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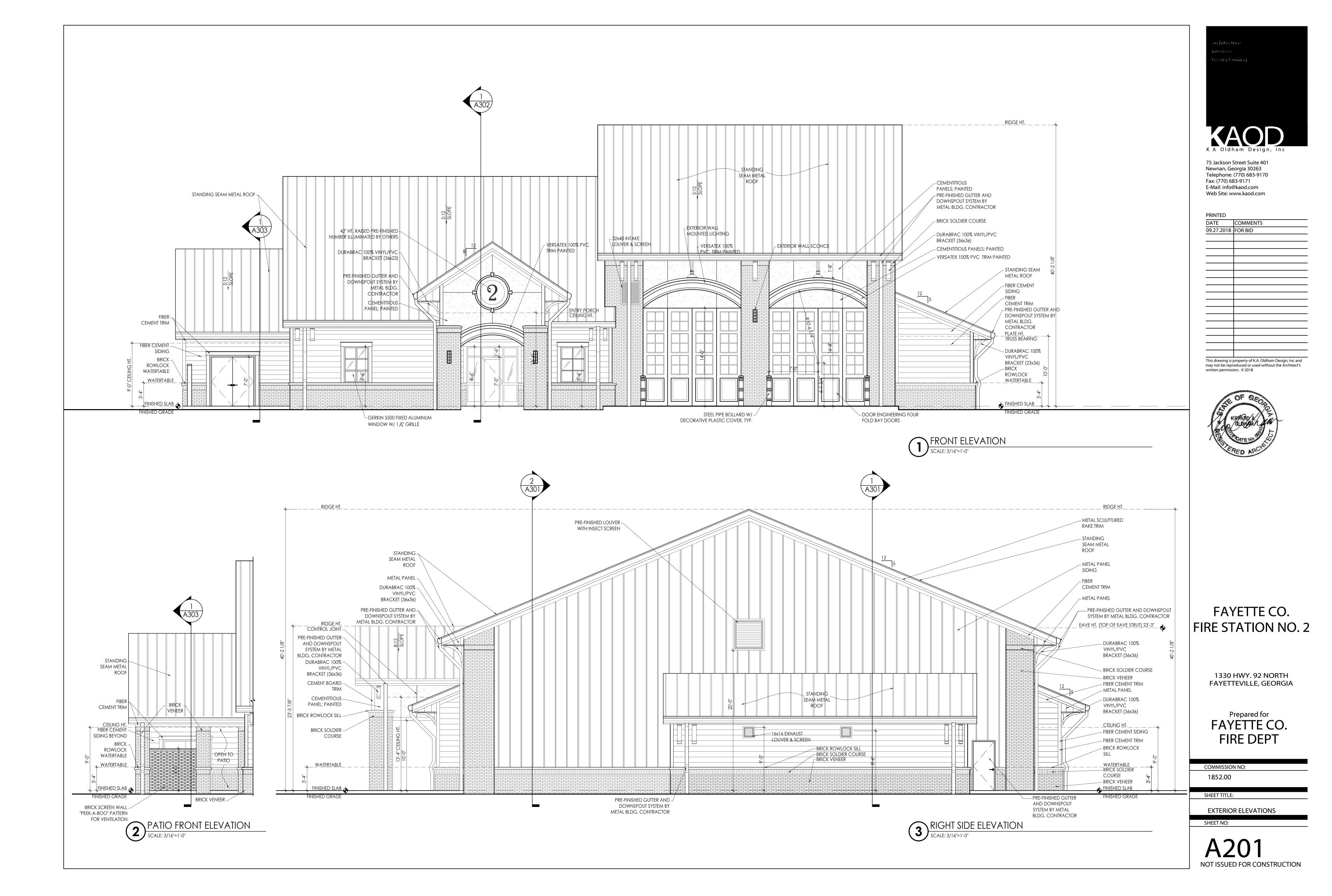
COMMISSION NO: 1852.00

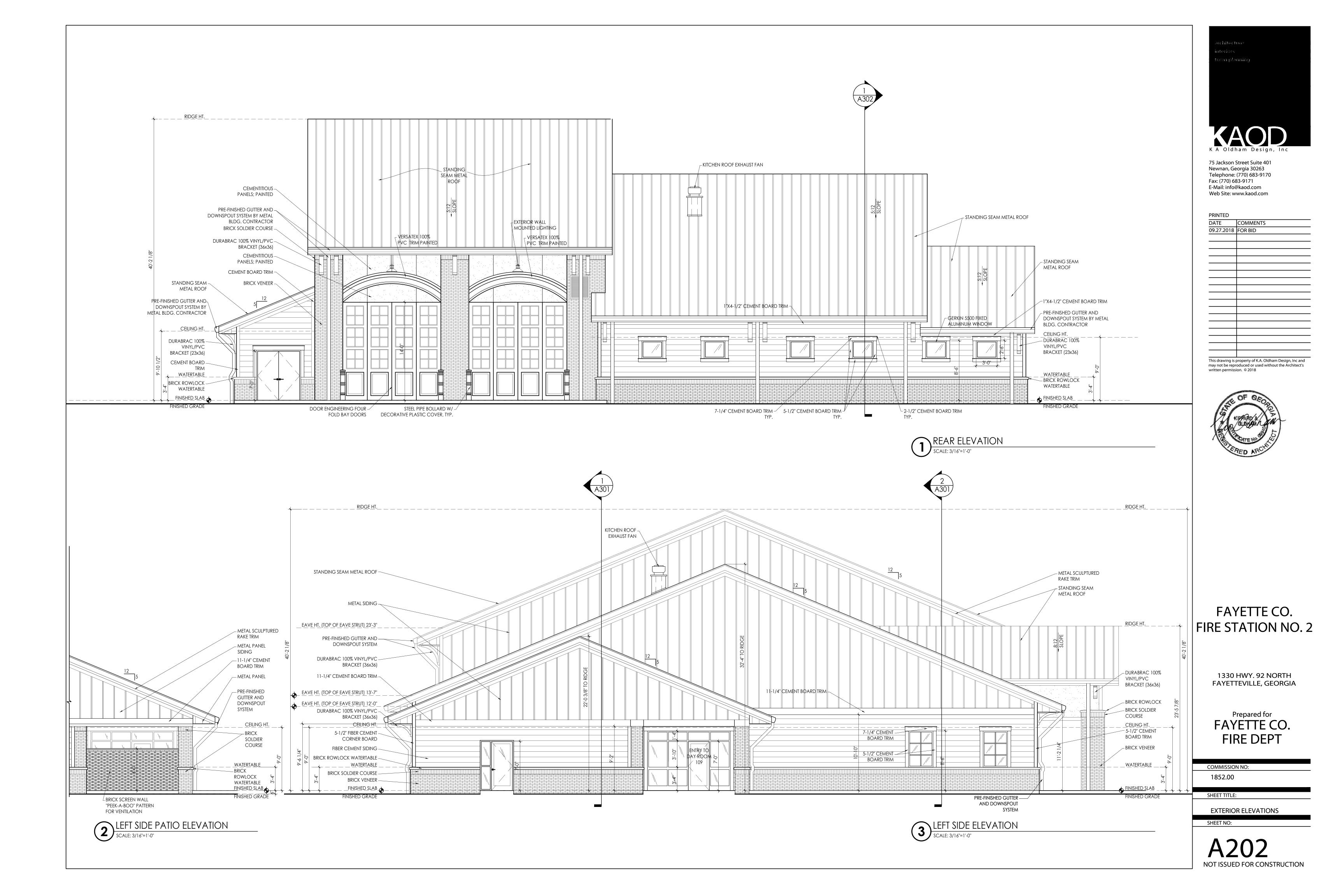
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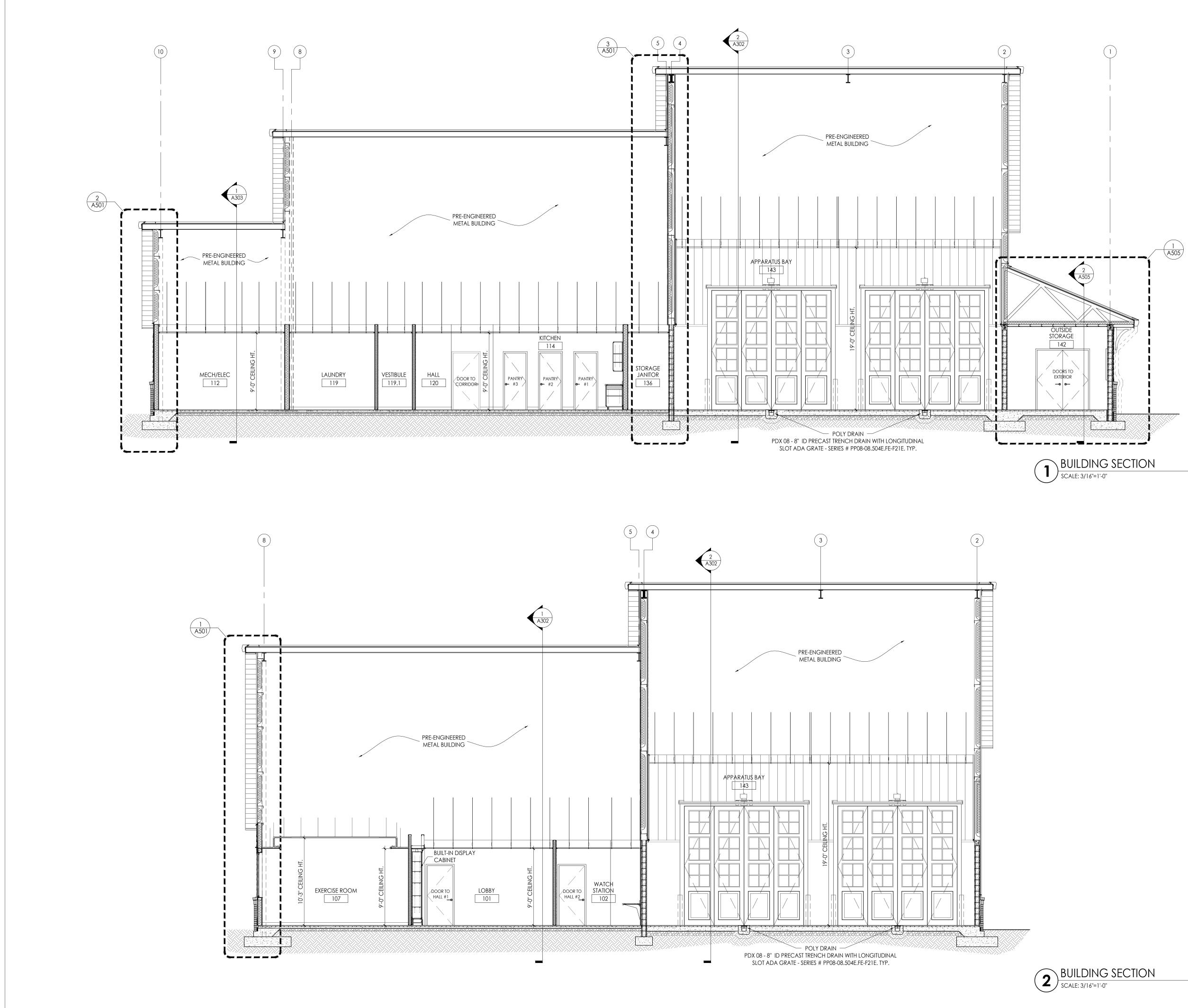
ROOF PLAN

SHEET NO:

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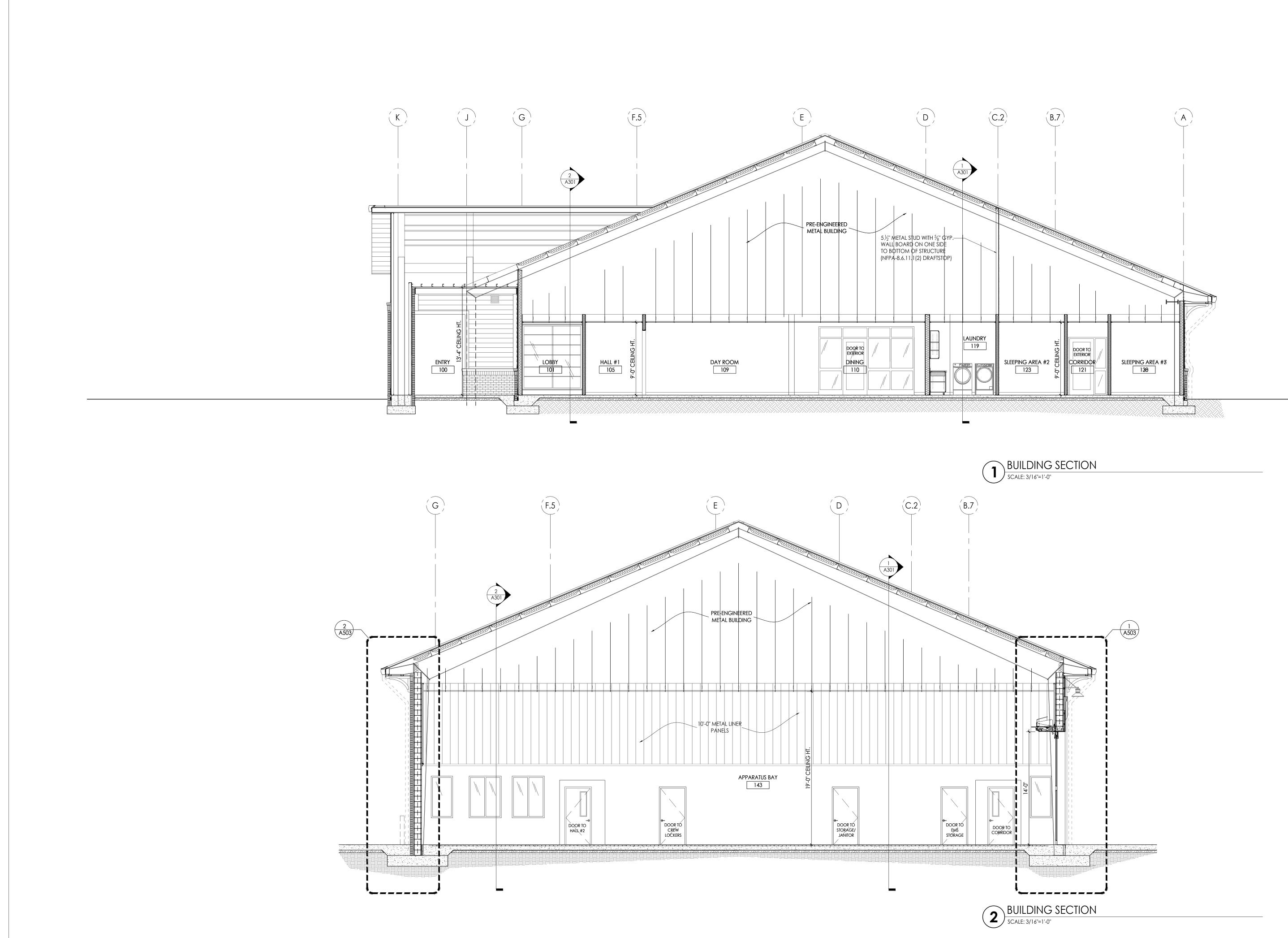
SHEET TITLE:

SHEET NO:

**BUILDING SECTIONS** 

A301

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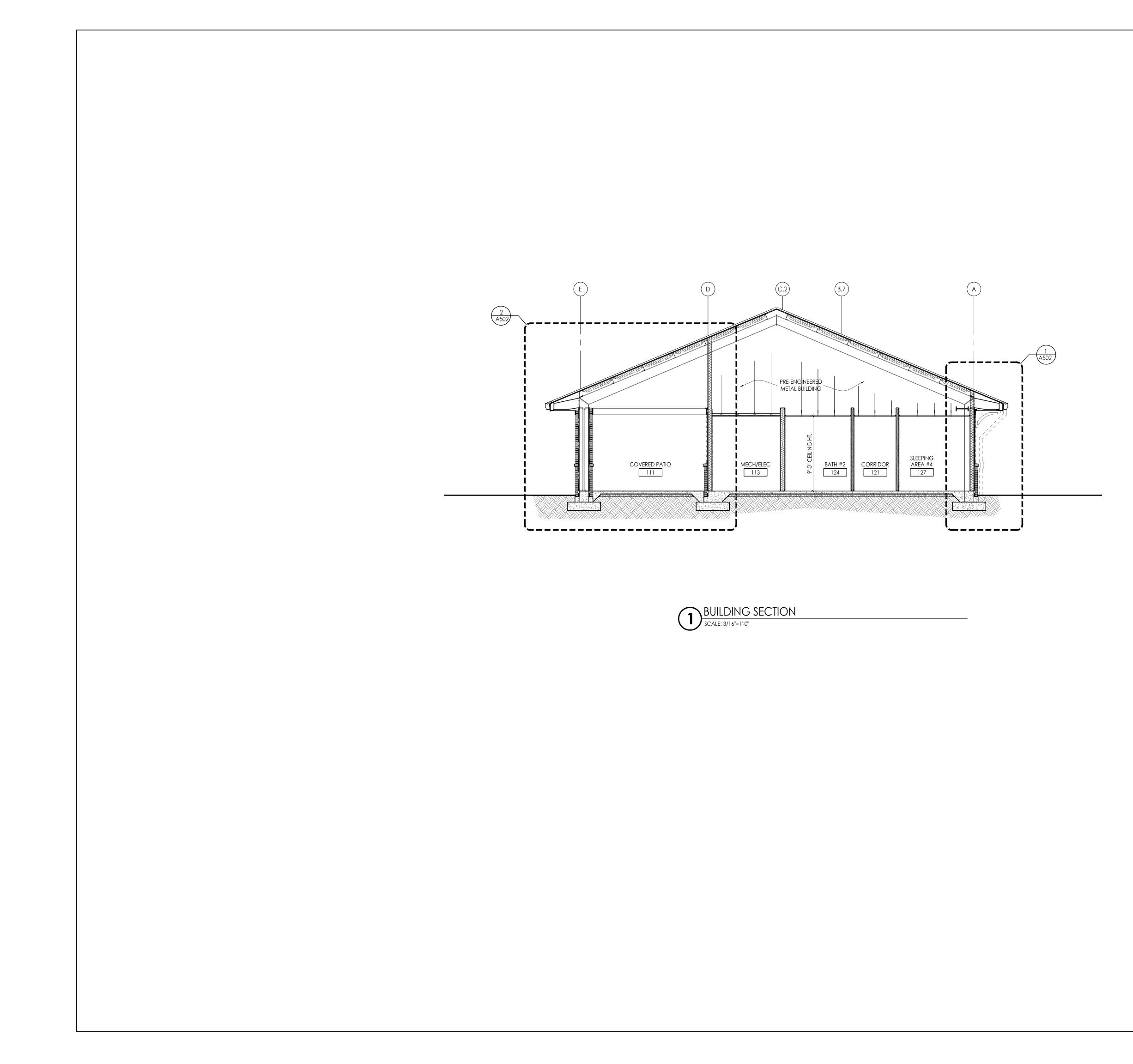
COMMISSION NO: 1852.00

SHEET TITLE:

SHEET NO:

**BUILDING SECTIONS** 

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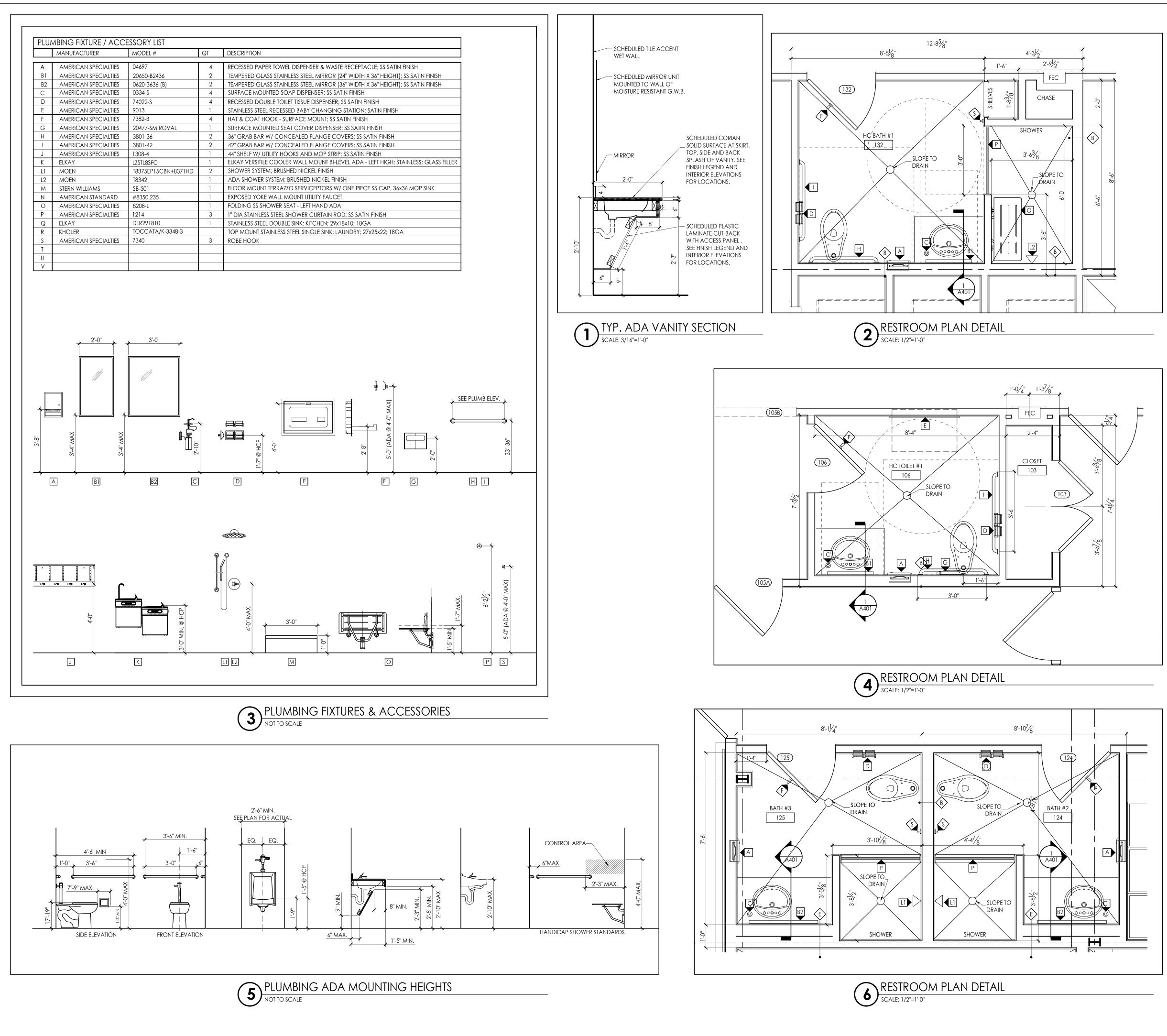
COMMISSION NO: 1852.00

SHEET TITLE:

SHEET NO:

**BUILDING SECTIONS** 

A303 NOT ISSUED FOR CONSTRUCTION



# FLOOR PLAN NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF STUDS AND CENTERLINE OF COLUMNS. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.

2. DOORS NOT LOCATED BY DIMENSION ON PLANS SHALL BE 4" FROM FACE OF ADJOINING PARTITION TO HINGE EDGE OF DOOR OPENING. VERIFY DOORS WILL HAVE 18" CLEAR ON THE PULL SIDE, AND 12" CLEAR ON THE PUSH SIDE PER ADA REQUIREMENTS. NOTIFY ARCHITECT IF REQUIRED CLEARANCES ARE NOT AVAILABLE.

3. CONTRACTOR TO LAYOUT ALL WALL LOCATIONS AND OPENINGS TO DISCOVER ANY CONFLICTS FOR RESOLUTION WITH THE ARCHITECT PRIOR TO STARTING WALL CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS.

4. PROVIDE ALL NECESSARY WOOD BLOCKING IN FRAMING LOCATIONS AT ALL WALL HUNG FURNITURE AND EQUIPMENT TO INCLUDE, BUT NOT LIMITED TO, WALL MOUNTED DOOR STOPS, GRAB BARS, HANDRAILS, CASEWORK, MARKERBOARDS, AND ALL RESTROOM ACCESSORIES.

5. PROVIDE 4" CONCRETE PAD ON COMPACTED FILL FOR ALL OUTDOOR MECHANICAL UNITS. PAD SHALL EXTEND 6" MIN. BEYOND EACH EDGE OF THE OVERALL EQUIPMENT LAYOUT.

6. SLOPE FLOOR AT THE ROOMS INDICATED WITH FLOOR DRAINS. COORDINATE GROUT JOINTS WITH FLOOR DRAIN locations.

## LEGEND

\_-----1 HR FIRE RATED WALLS rchitecture



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1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

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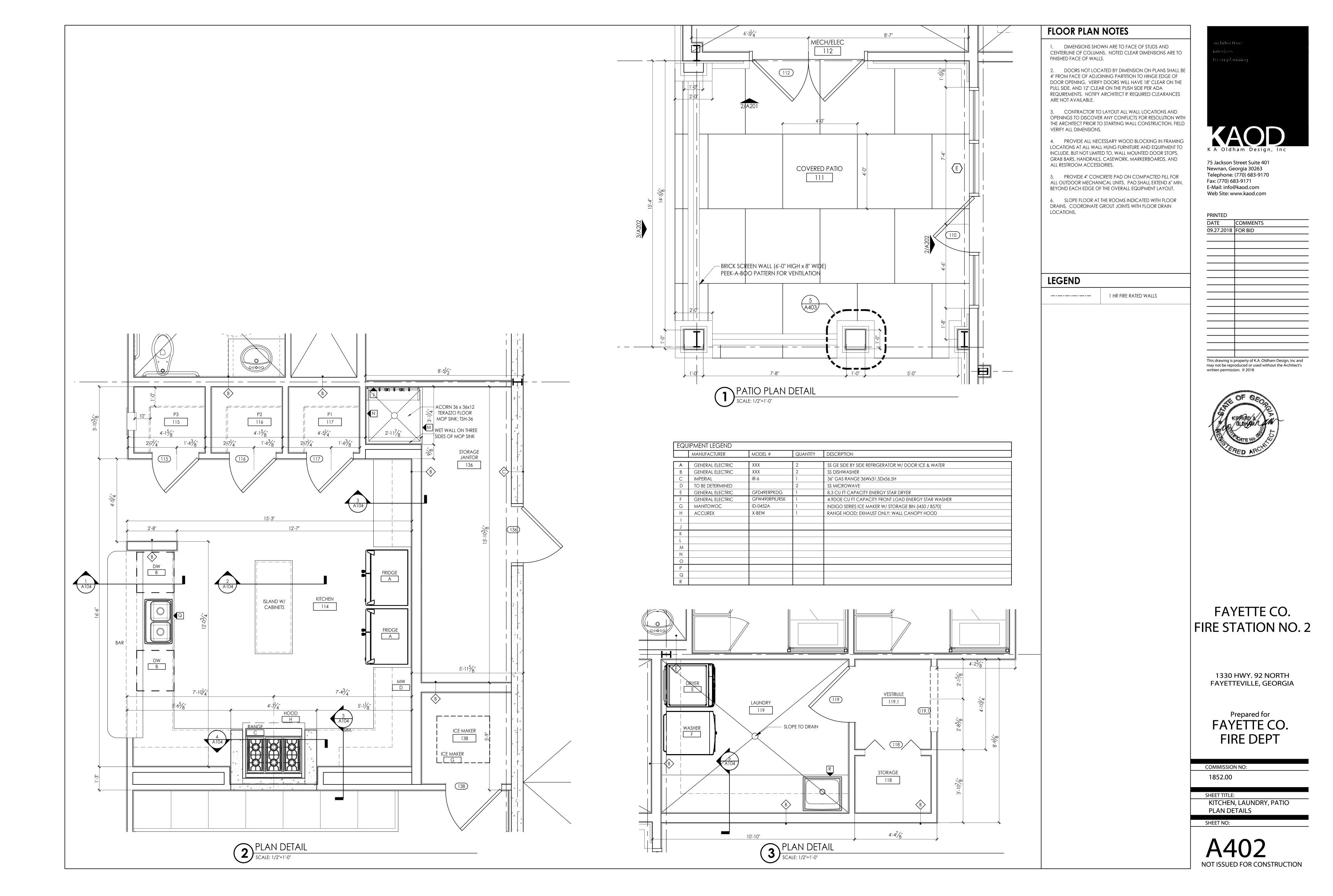
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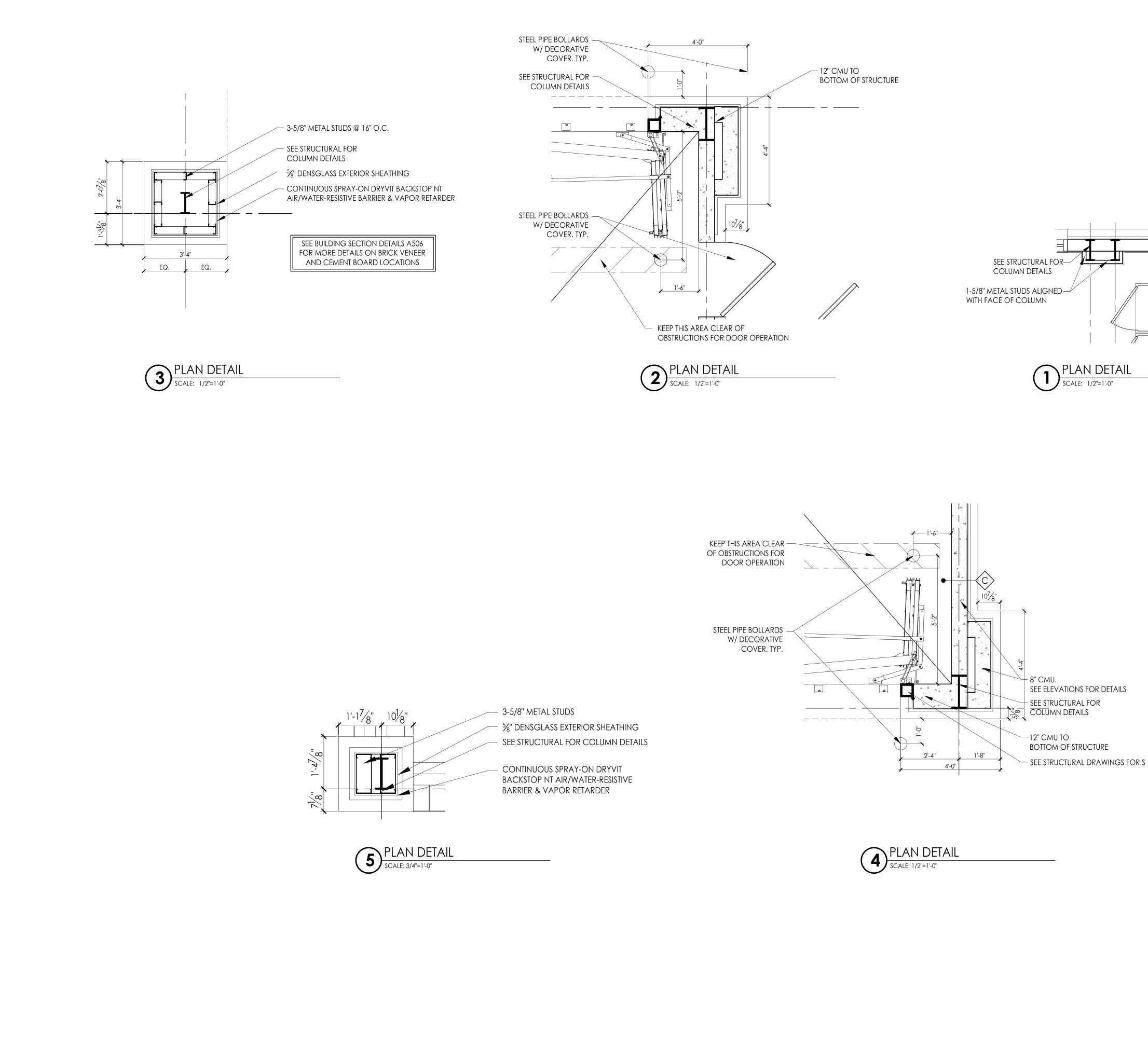
SHEET NO:

SHEET TITLE:

PLUMBING ACCESSORIES & **RESTROOM PLAN DETAILS** 

A401 NOT ISSUED FOR CONSTRUCTION





# FLOOR PLAN NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF STUDS AND CENTERLINE OF COLUMNS. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.

2. DOORS NOT LOCATED BY DIMENSION ON PLANS SHALL BE 4" FROM FACE OF ADJOINING PARTITION TO HINGE EDGE OF DOOR OPENING. VERIFY DOORS WILL HAVE 18" CLEAR ON THE PULL SIDE, AND 12" CLEAR ON THE PUSH SIDE PER ADA REQUIREMENTS. NOTIFY ARCHITECT IF REQUIRED CLEARANCES ARE NOT AVAILABLE.

3. CONTRACTOR TO LAYOUT ALL WALL LOCATIONS AND OPENINGS TO DISCOVER ANY CONFLICTS FOR RESOLUTION WITH THE ARCHITECT PRIOR TO STARTING WALL CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS.

4. PROVIDE ALL NECESSARY WOOD BLOCKING IN FRAMING LOCATIONS AT ALL WALL HUNG FURNITURE AND EQUIPMENT TO INCLUDE, BUT NOT LIMITED TO, WALL MOUNTED DOOR STOPS, GRAB BARS, HANDRAILS, CASEWORK, MARKERBOARDS, AND ALL RESTROOM ACCESSORIES.

5. PROVIDE 4" CONCRETE PAD ON COMPACTED FILL FOR ALL OUTDOOR MECHANICAL UNITS. PAD SHALL EXTEND 6" MIN. BEYOND EACH EDGE OF THE OVERALL EQUIPMENT LAYOUT.

6. SLOPE FLOOR AT THE ROOMS INDICATED WITH FLOOR DRAINS. COORDINATE GROUT JOINTS WITH FLOOR DRAIN locations.

LEGEND

\_-----1 HR FIRE RATED WALLS



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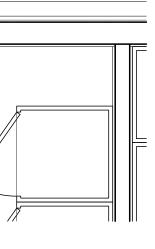
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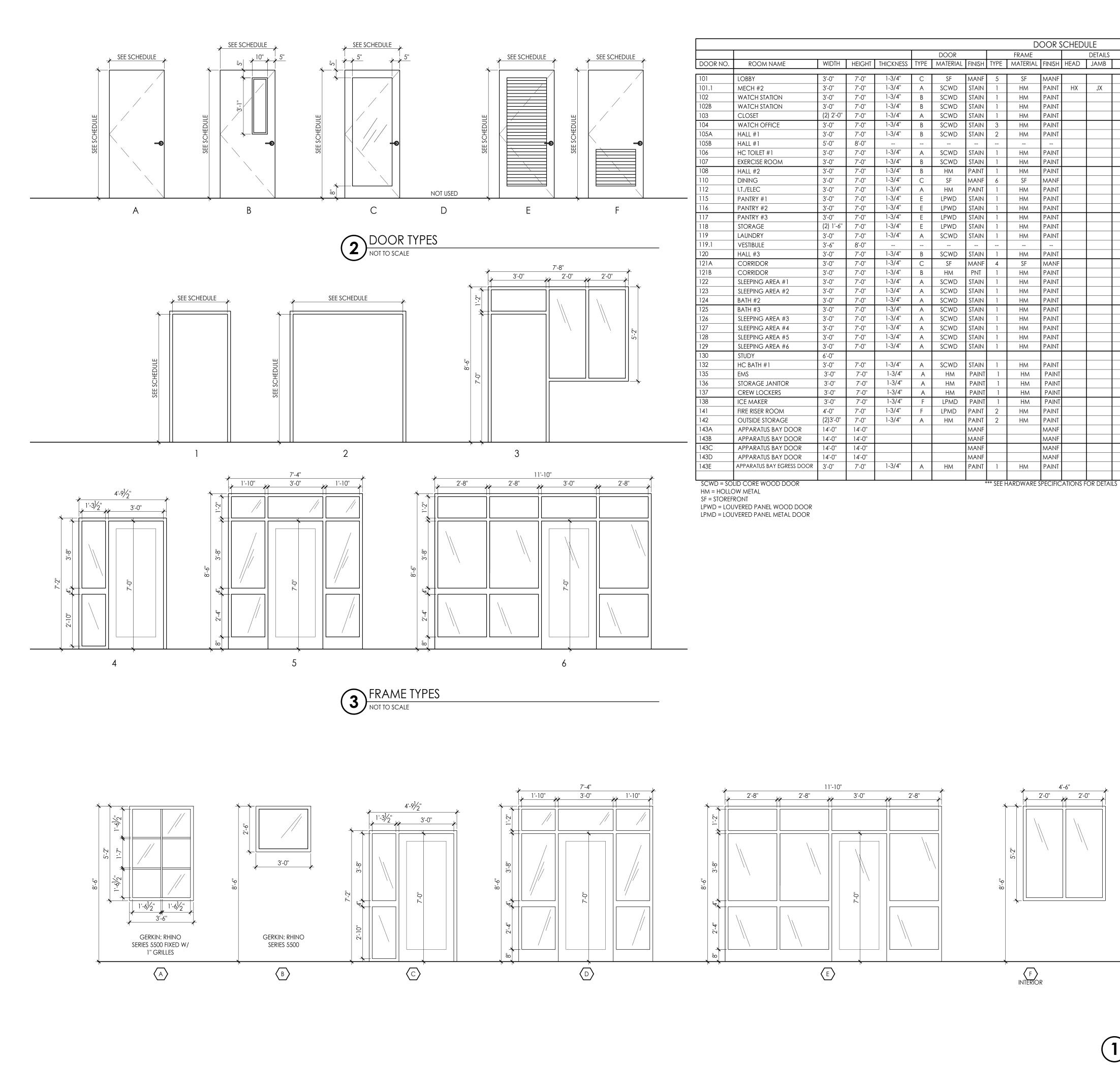
SHEET TITLE:

SHEET NO:

PLAN DETAILS

A403 NOT ISSUED FOR CONSTRUCTION





									D	OORS	SCHEDI	JLE					
						DOOR			FRAME			DETAILS					
DOOR NO.	ROOM NAME	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	RATING	HDWR NO.***	ADDTL. HARDWARE	COMMENTS
101	LOBBY	3'-0"	7'-0''	1-3/4"	С	SF	MANF	5	SF	MANF					r – – – – – – – – – – – – – – – – – – –		STORE FRONT
101.1	MECH #2	3'-0"	7'-0''	1-3/4"	A	SCWD	STAIN	1	HM	PAINT	НХ	XL	SX				STORETRONT
101.1	WATCH STATION	3'-0''	7'-0''	1-3/4"	B	SCWD	STAIN	1	HM	PAINT		JA	5/			SECURE CARD READER	
102 102B	WATCH STATION	3'-0"	7'-0''	1-3/4"	B	SCWD	STAIN	1	HM	PAINT						SECORE CARD READER	
1025	CLOSET	(2) 2'-0''	7'-0''	1-3/4"	A	SCWD	STAIN	1	НМ	PAINT							
104	WATCH OFFICE	3'-0"	7'-0''	1-3/4"	B	SCWD	STAIN	3	HM	PAINT							
105A	HALL #1	3'-0"	7'-0''	1-3/4"	B	SCWD	STAIN	2	HM	PAINT						SECURE CARD READER	
105B	HALL #1	5'-0''	8'-0''														CASED OPENING
106	HC TOILET #1	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	НМ	PAINT							0,012 0, 1, 1, 1, 0
107	EXERCISE ROOM	3'-0"	7'-0''	1-3/4"	B	SCWD	STAIN	1	HM	PAINT							
108	HALL #2	3'-0"	7'-0''	1-3/4"	B	HM	PAINT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	IBC 2012: TABLE 716.5
110	DINING	3'-0''	7'-0''	1-3/4"	C	SF	MANF	6	SF	MANF							STORE FRONT
112	I.T./ELEC	3'-0''	7'-0''	1-3/4"	A	HM	PAINT	1	HM	PAINT							
115	PANTRY #1	3'-0''	7'-0''	1-3/4"	Е	LPWD	STAIN	1	НМ	PAINT						PAINTED METAL LOUVERS	
116	PANTRY #2	3'-0''	7'-0''	1-3/4"	Е	LPWD	STAIN	1	НМ	PAINT						PAINTED METAL LOUVERS	
117	PANTRY #3	3'-0''	7'-0''	1-3/4"	Е	LPWD	STAIN	1	НМ	PAINT						PAINTED METAL LOUVERS	
118	STORAGE	(2) 1'-6"	7'-0''	1-3/4"	Е	LPWD	STAIN	1	НМ	PAINT						PAINTED METAL LOUVERS	
119	LAUNDRY	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	НМ	PAINT							
119.1	VESTIBULE	3'-6"	8'-0''														CASED OPENING
120	HALL #3	3'-0''	7'-0''	1-3/4"	В	SCWD	STAIN	1	НМ	PAINT						CONTINUOUS HINGE	
121A	CORRIDOR	3'-0''	7'-0''	1-3/4"	С	SF	MANF	4	SF	MANF						SECURE CARD READER	STORE FRONT
121B	CORRIDOR	3'-0''	7'-0''	1-3/4"	В	HM	PNT	1	НМ	PAINT				20 MIN		CONTINUOUS HINGE	IBC 2012: TABLE 716.5
122	SLEEPING AREA #1	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	НМ	PAINT							
123	SLEEPING AREA #2	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	НМ	PAINT							
124	BATH #2	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	НМ	PAINT							
125	BATH #3	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	HM	PAINT							
126	SLEEPING AREA #3	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	HM	PAINT							
127	SLEEPING AREA #4	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	HM	PAINT							
128	SLEEPING AREA #5	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	НM	PAINT							
129	SLEEPING AREA #6	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	HM	PAINT							
130	STUDY	6'-0''															CASED OPENING
132	HC BATH #1	3'-0''	7'-0''	1-3/4"	А	SCWD	STAIN	1	HM	PAINT							
135	EMS	3'-0''	7'-0''	1-3/4"	А	НM	PAINT	1	HM	PAINT				20 MIN		SECURE CARD READER; CONTINUOU	HINGE
136	STORAGE JANITOR	3'-0''	7'-0''	1-3/4"	А	НM	PAINT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	
137	CREW LOCKERS	3'-0''	7'-0''	1-3/4"	А	НM	PAINT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	
138	ICE MAKER	3'-0''	7'-0''	1-3/4"	F	lpmd	PAINT	1	HM	PAINT						PAINTED METAL LOUVERS	
141	FIRE RISER ROOM	4'-0''	7'-0''	1-3/4"	F	LPMD	PAINT	2	HM	PAINT						PAINTED METAL LOUVERS	
142	OUTSIDE STORAGE	(2)3'-0''	7'-0''	1-3/4"	А	HM	PAINT	2	HM	PAINT							
143A	APPARATUS BAY DOOR	14'-0''	14'-0''				MANF			MANF							
143B	APPARATUS BAY DOOR	14'-0''	14'-0''				MANF			MANF							
143C	APPARATUS BAY DOOR	14'-0''	14'-0''				MANF			MANF							
143D	APPARATUS BAY DOOR	14'-0''	14'-0''				MANF			MANF							
143E	APPARATUS BAY EGRESS DOOR	3'-0''	7'-0''	1-3/4"	А	НM	PAINT	1	HM	PAINT						SECURE CARD READER	
SCWD = SOI	LID CORE WOOD DOOR						*	*** SEE H	HARDWARE S	SPECIFIC	ations f	OR DETAI	_S				







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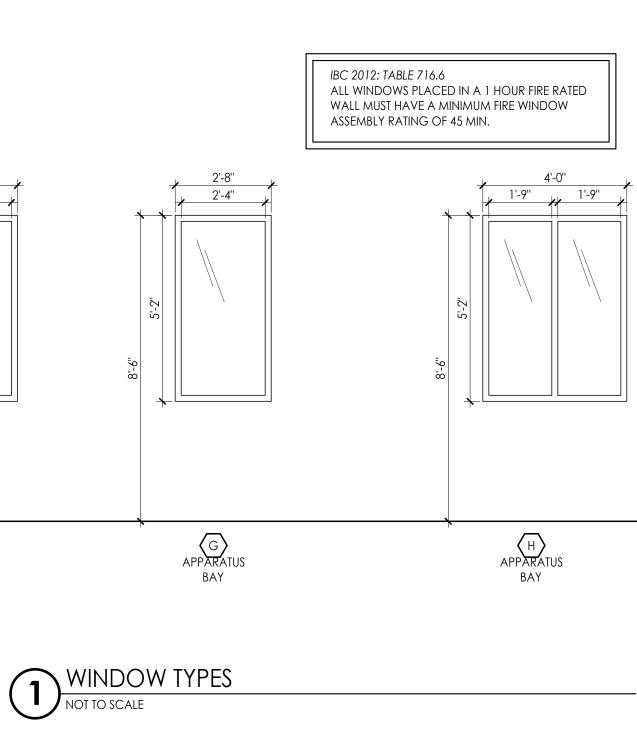


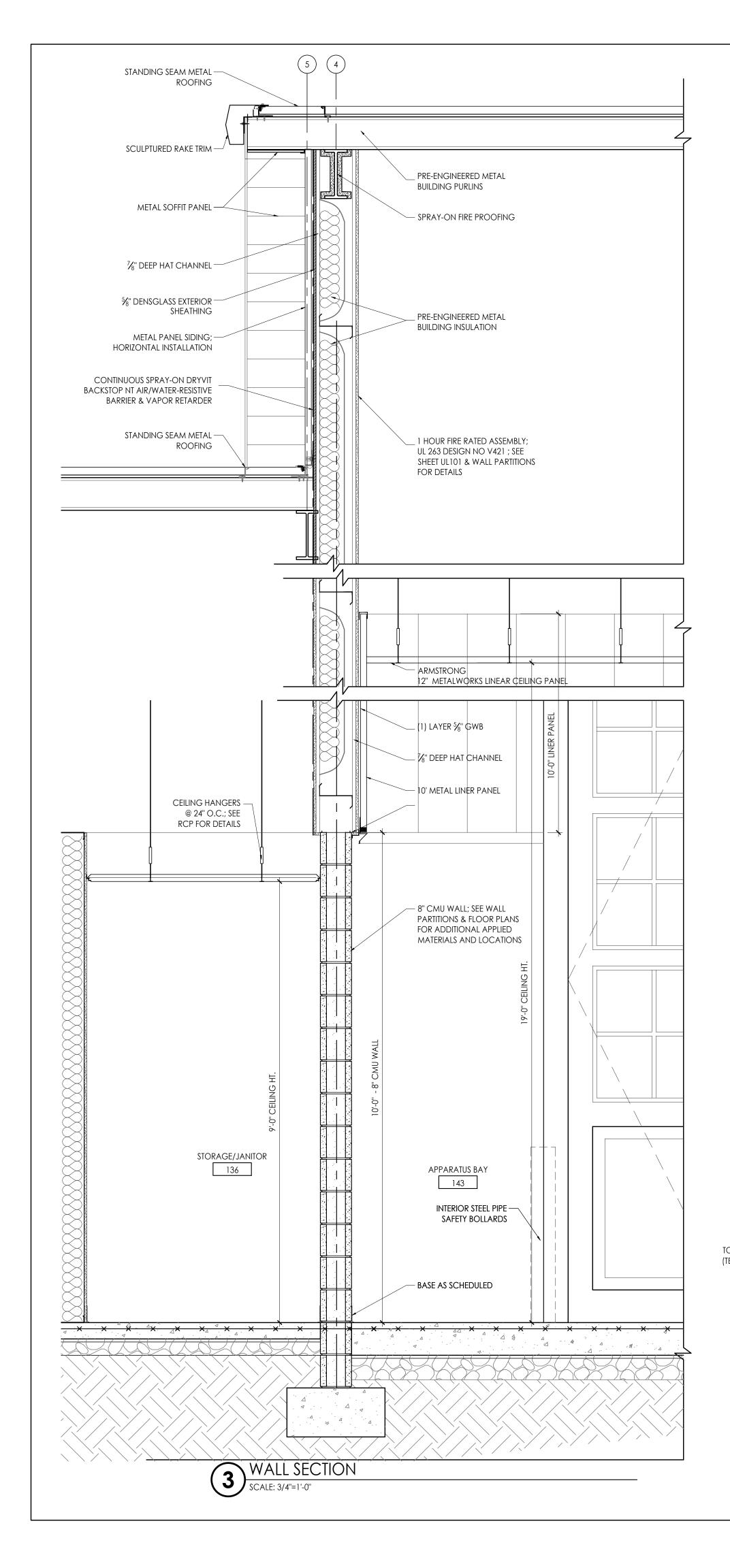
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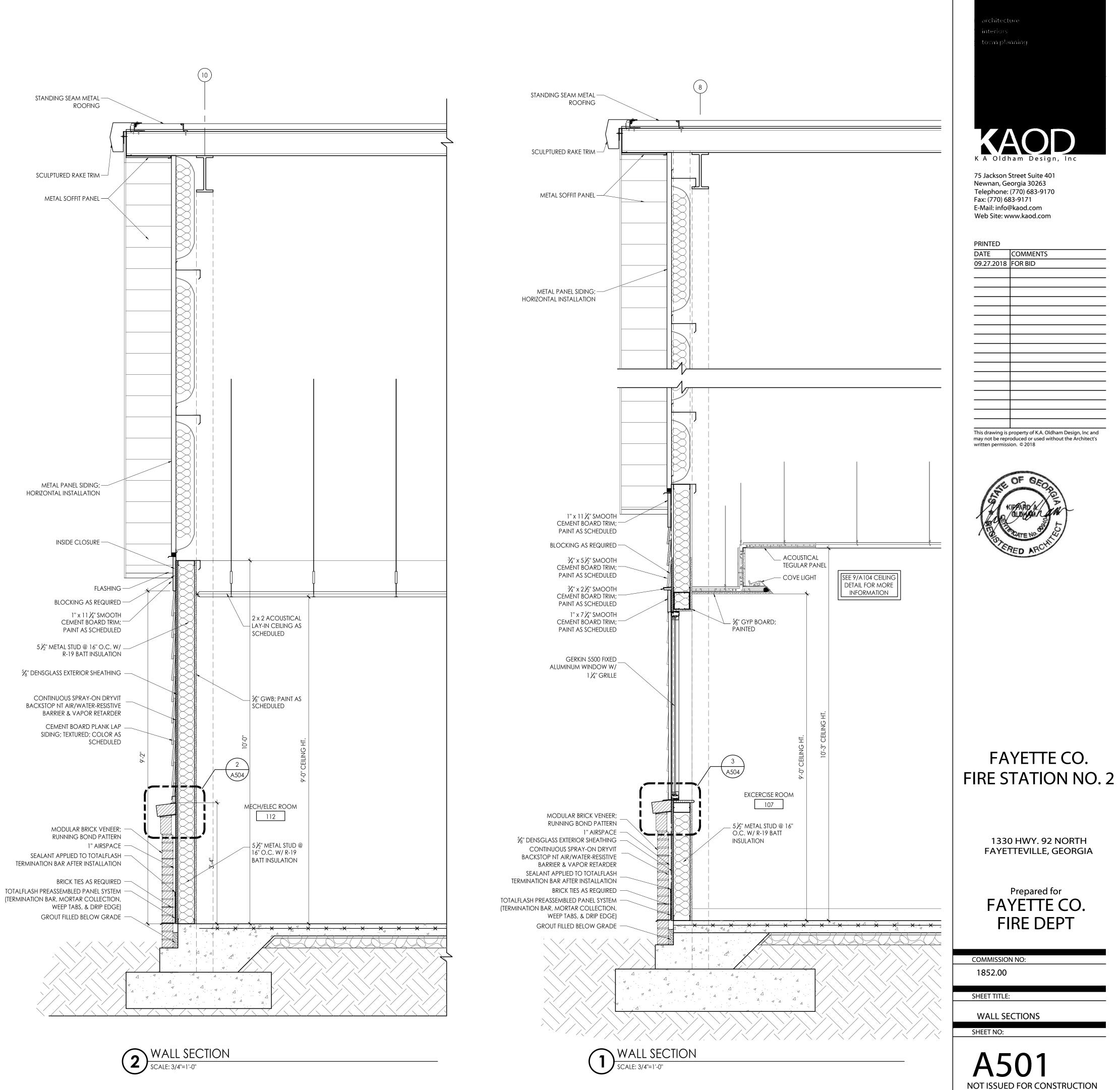
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SCHEDULE / DETAILS SHEET NO:

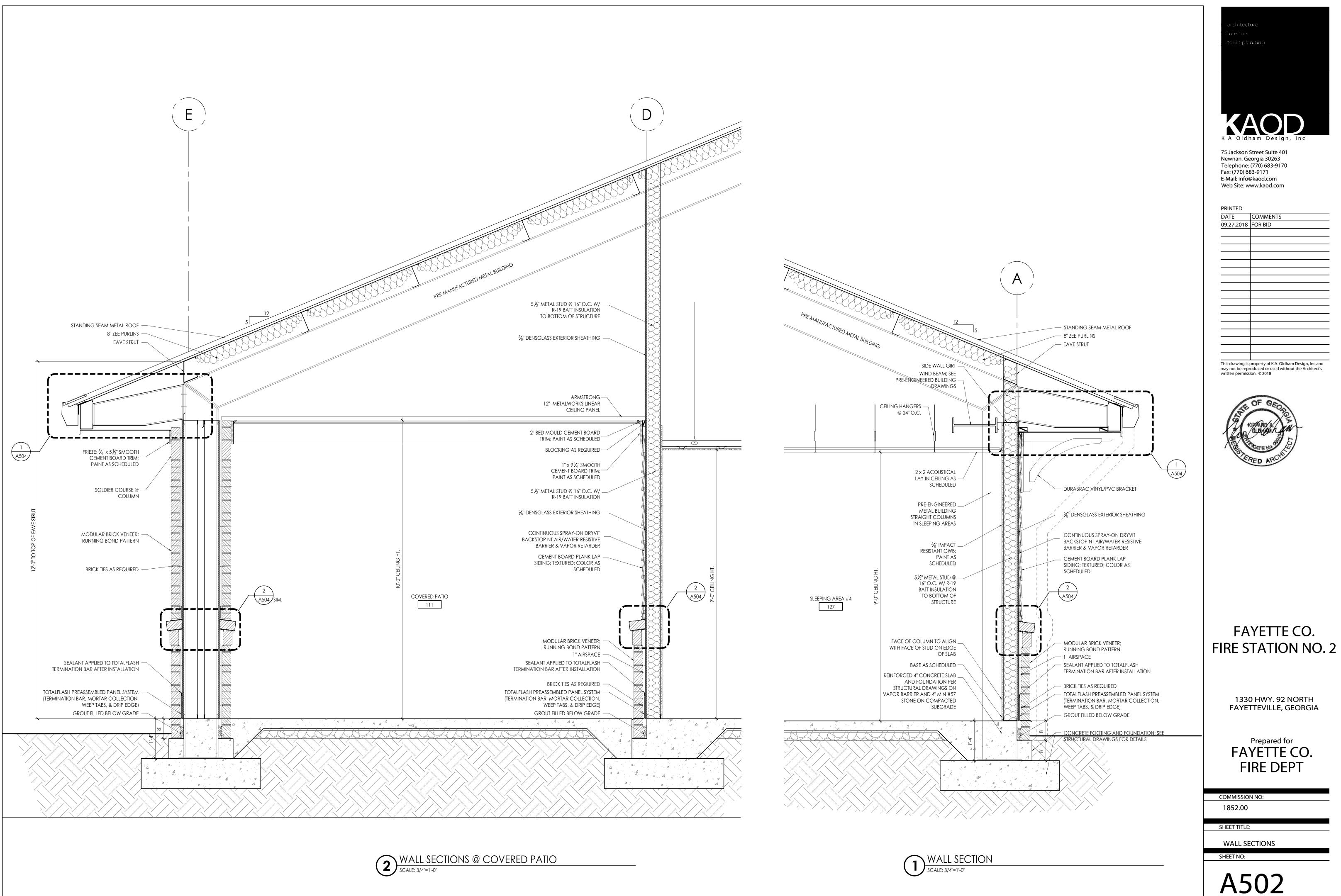
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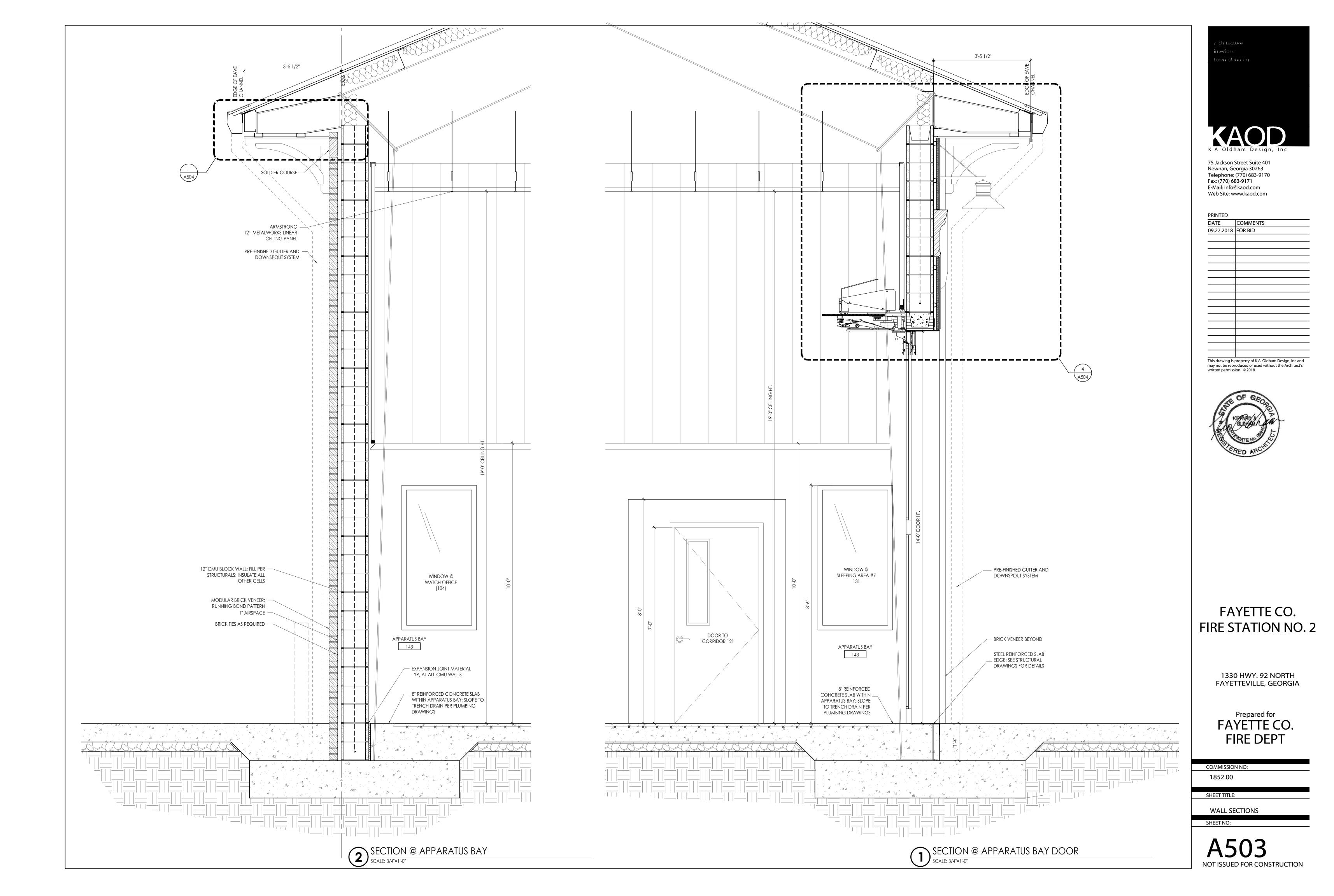


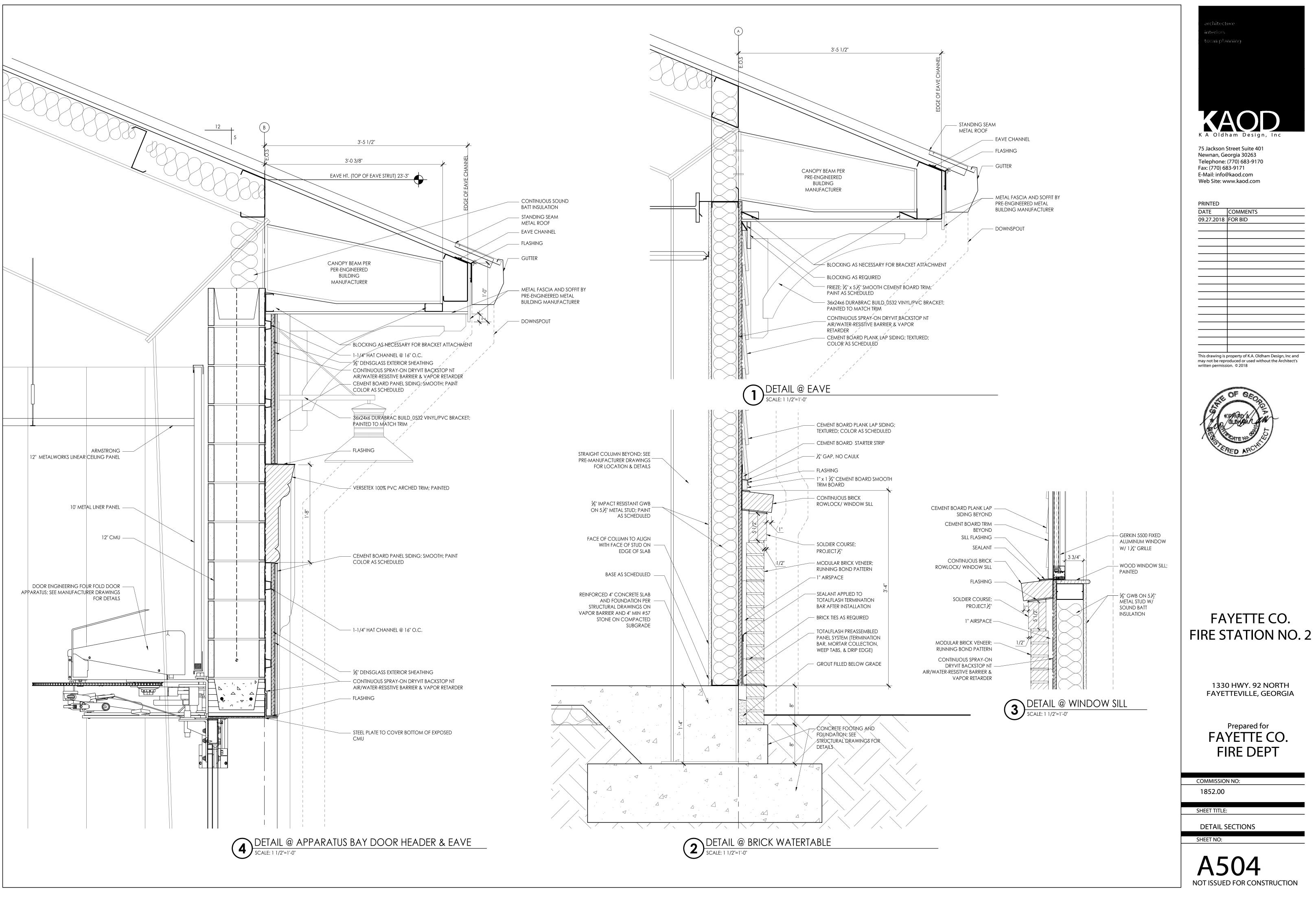


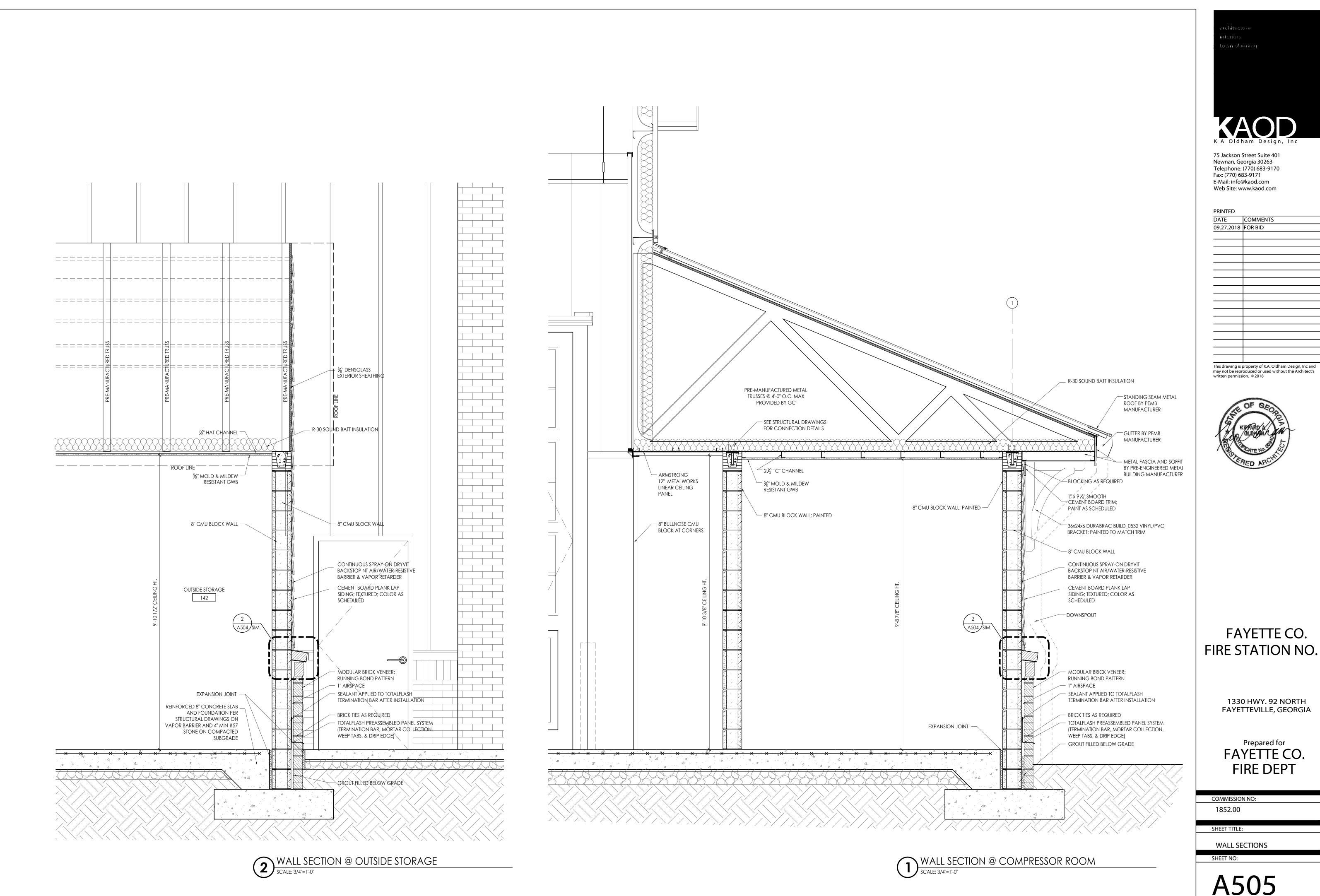




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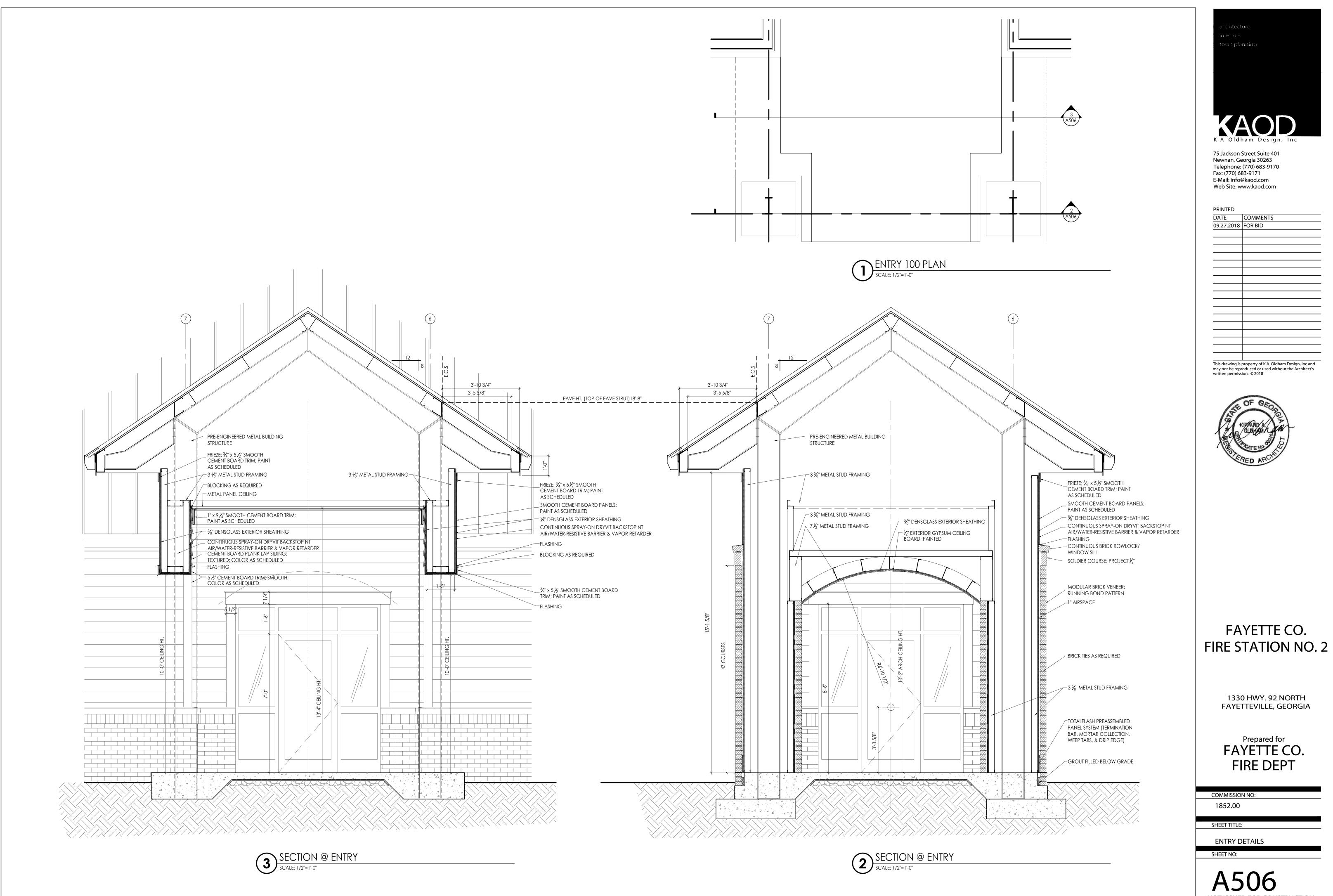


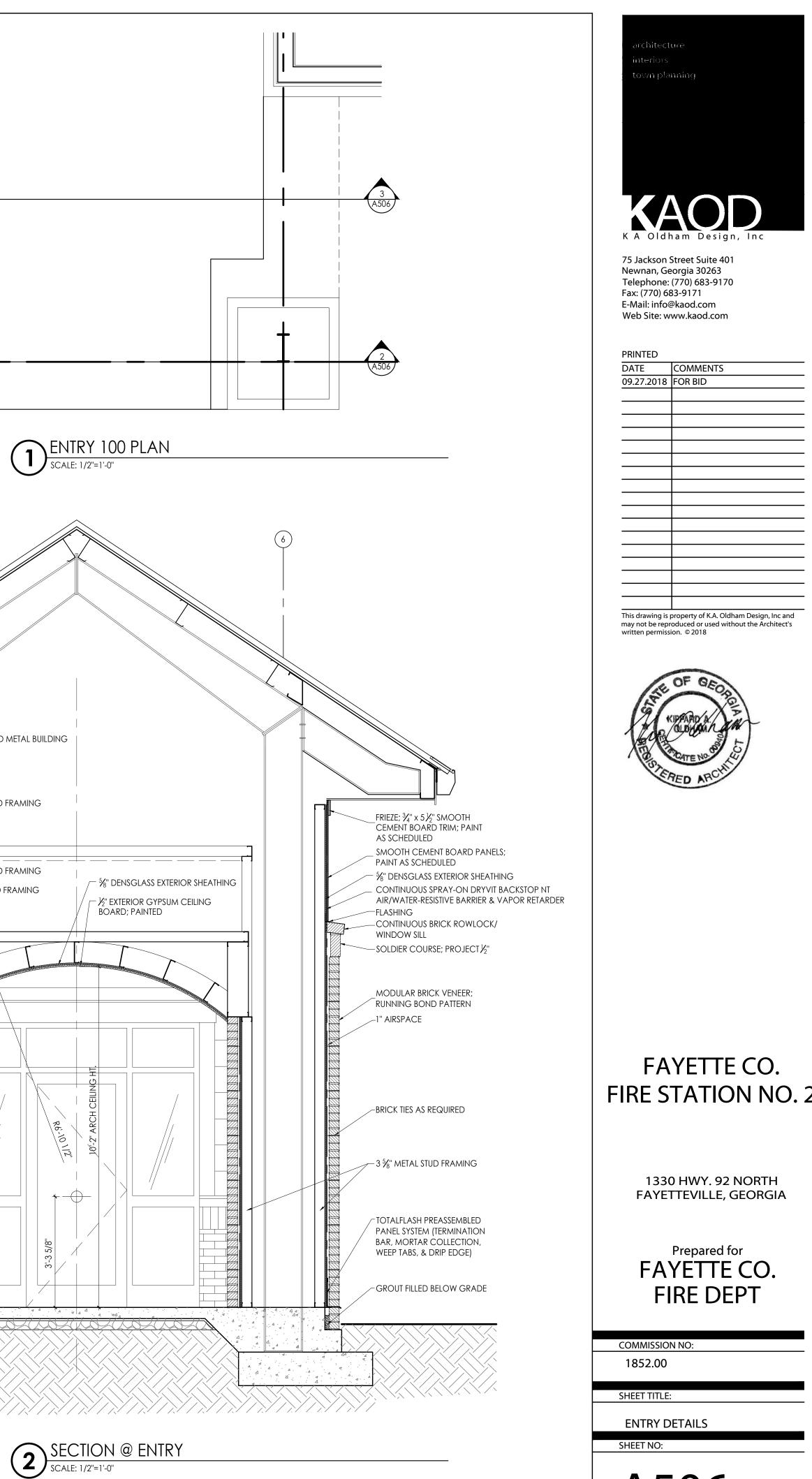
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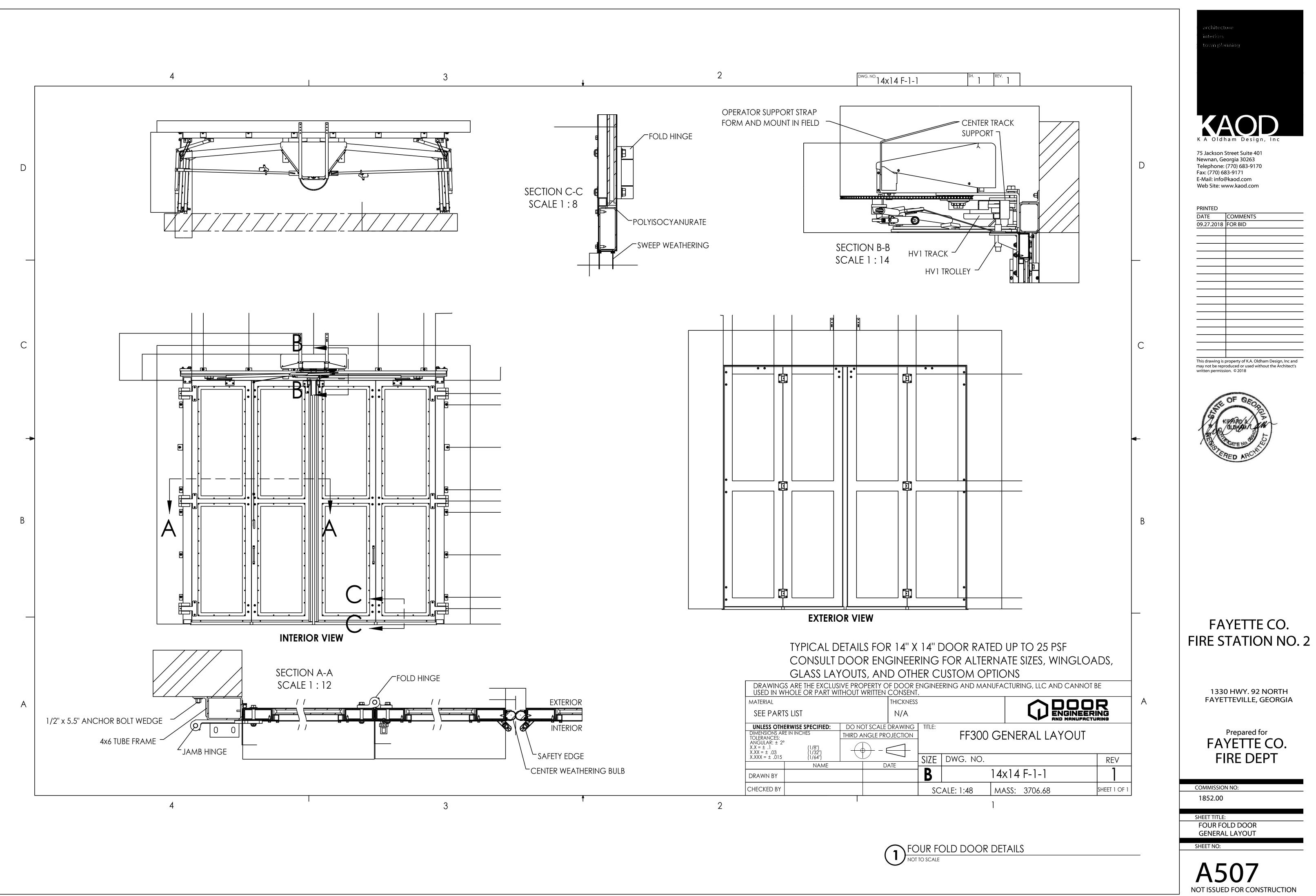
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TERIOR RATED
NT CEILING FAN
MOUNTED LIGHT
OR WALL PACK
Cessed wall washer

	$\boxtimes$	CEILING MOUNTED EXHAUST FAN			
	۲	EMERGENCY EXIT SIGN			
		CEILING DROP POWER CORDS			
	Ρ	CEILING MOUNTED PROJECTOR			
* SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS * ALL NEW LIGHTING FIXTURES SHALL BE LED'S					

## **CEILING NOTES**

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2. LIGHTING AND HVAC COMPONENTS SHOWN IN CEILING PLAN ARE FOR LOCATION AND DIMENSIONAL PURPOSES ONLY. REFER TO CONSULTANT DRAWINGS FOR FULL EXTENT. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERED DRAWINGS.

3. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTING, EMERGENCY LIGHTING, AND LIFE SAFETY SYSTEMS.

4. COORDINATE ALL CEILING OPENINGS WITH ELECTRICAL AND MECHANICAL DRAWINGS.

5. DO NOT ATTACH PARTITION OR CEILING SYSTEMS TO PORTIONS OF ANY MECHANICAL EQUIPMENT. CONTRACTOR TO COORDINATE LOCATIONS AND PROVIDE ALTERNATE BRACING IF CONFLICTS OCCUR.

6. COORDINATE HEIGHTS OF SUSPENDED LIGHTING, OR SUSPENDED OR WALL MOUNTED HVAC COMPONENTS WITH ARCHITECT IF NOT PROVIDED IN DRAWINGS.

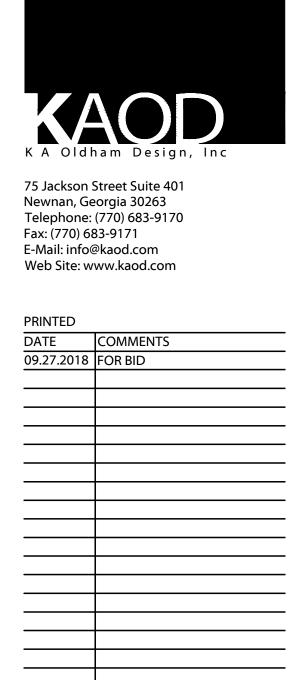
7. UNLESS OTHERWISE NOTED OR DIMENSIONED, CEILING GRID SHALL BE CENTERED WITHIN SPACES IN BOTH DIRECTIONS.

8. DIMENSIONS ARE TO FACE OF FINISHED SURFACE UNLESS NOTED OTHERWISE.

9. CENTER CEILING MOUNTED EQUIPMENT AND LIGHTS IN ACT PANEL UNLESS DIMENSIONED OR NOTED OTHERWISE.

10. SOUND BATT INSULATION CANNOT BE INSTALLED ABOVE CAN LIGHT FIXTURES. ABOVE ALL CAN LIGHT FIXTURES THERE SHALL BE A 3" CLEARANCE AROUND ALL CEILING CAN LIGHT FIXTURES INDICATED.

11. ALL EXTERIOR FIXTURES TO BE EXTERIOR RATED. REFER TO EXTERIOR ELEVATIONS AND SECTIONS FOR MOUNTING HEIGHTS. VERIFY HEIGHTS PRIOR TO INSTALLATION.



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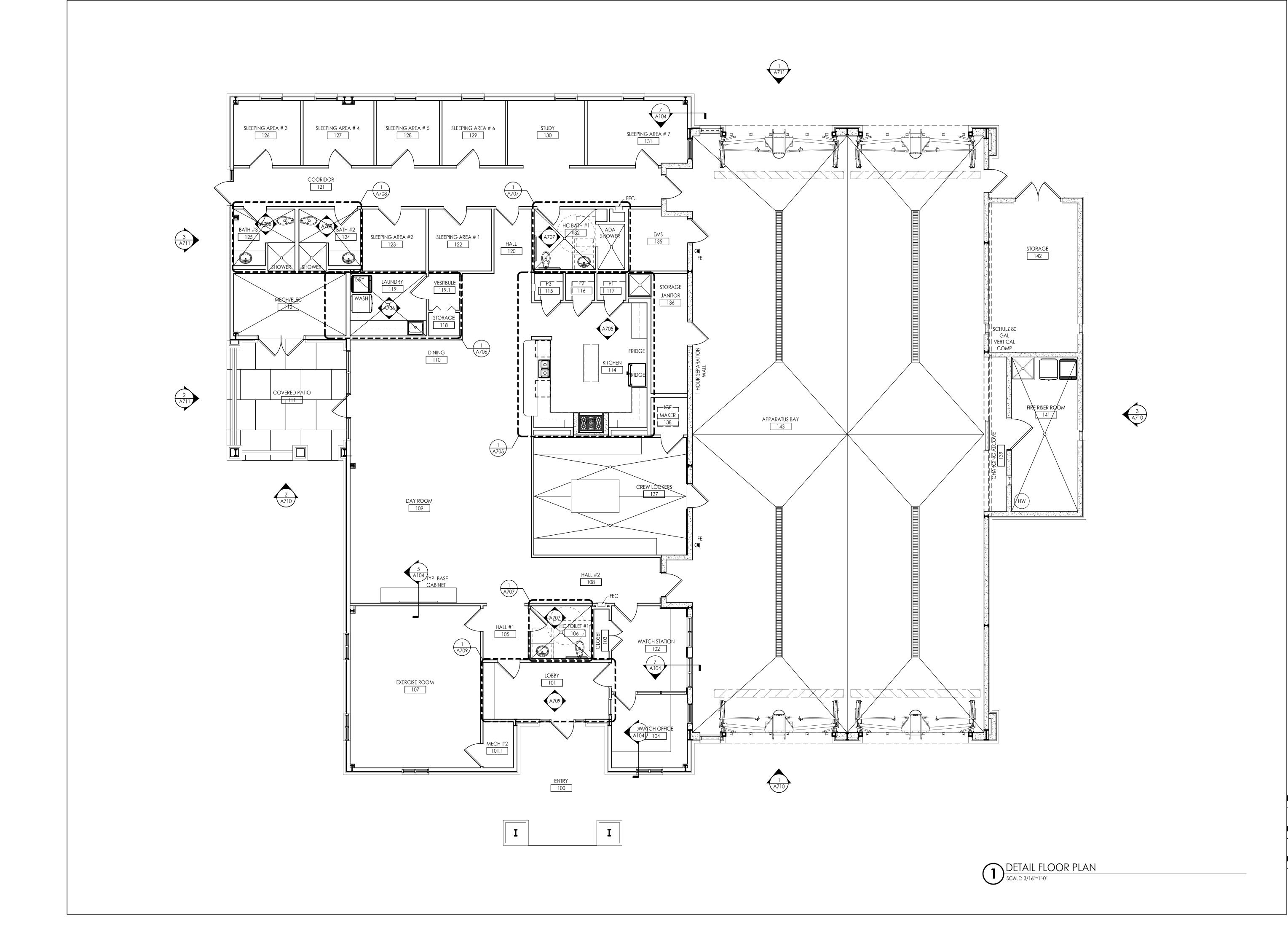
SHEET TITLE:

SHEET NO:

REFLECTED CEILING PLAN

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interiors	
town pla	nning
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FAYETTE CO. FIRE STATION NO. 2

> 1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

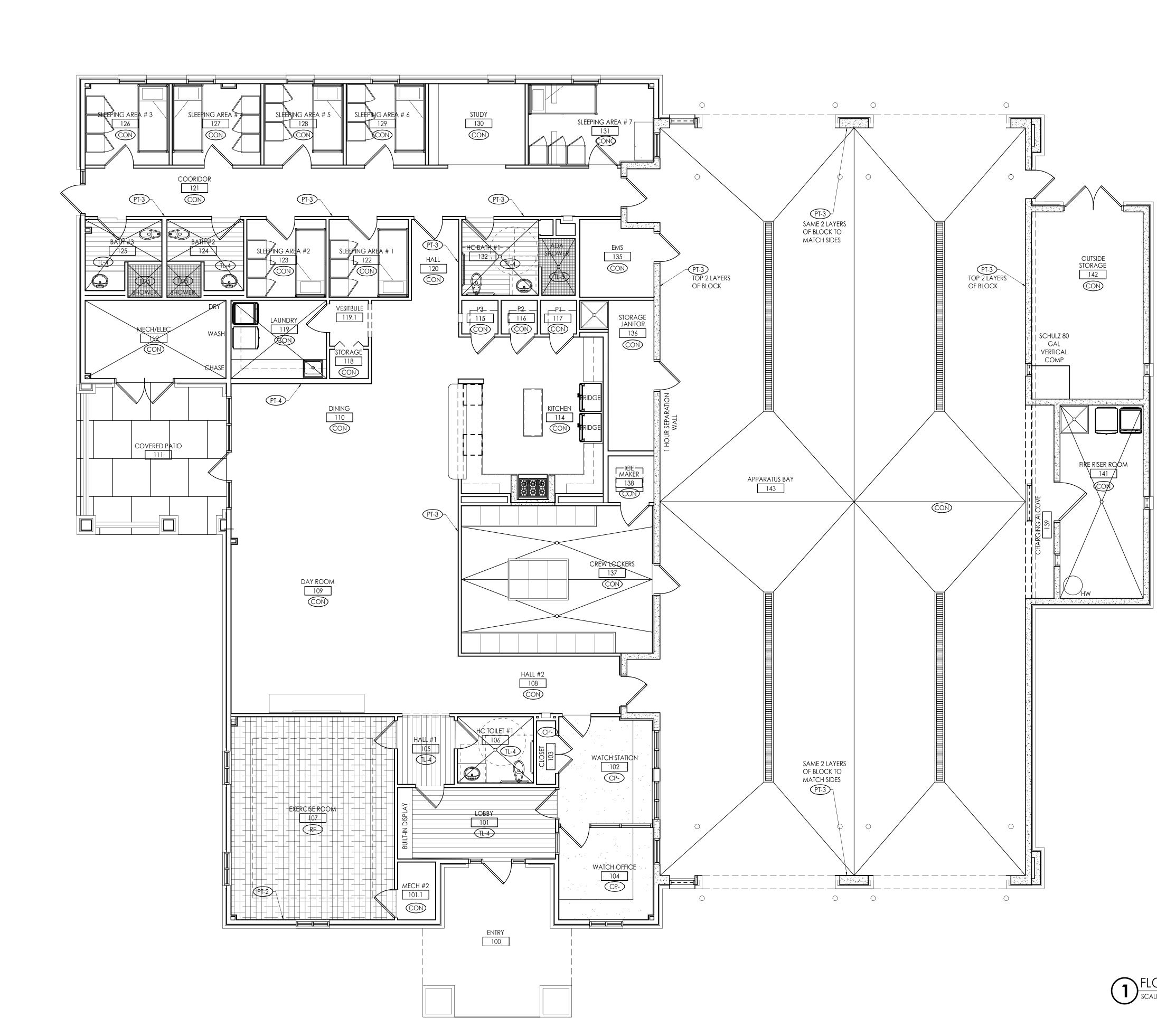
COMMISSION NO: 1852.00

SHEET TITLE:

SHEET NO:

DETAIL FLOOR PLAN

A701 NOT ISSUED FOR CONSTRUCTION



# MATERIAL LEGEND

	-
TAG	DESCRIPTION
	TILE; SEE FINISH SCHEDULE FOR DETAILS
CONC	CONCRETE, CLEANED & SEALED
CP	CARPET; SEE FINISH SCHEDULE FOR DETAILS
RF	RUBBER FLOORING; SEE FINISH SCHEDULE FOR DETAILS



## FLOOR FINISH PLAN SCALE: 3/16"=1'-0"

HIPPARD A. DA

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# FAYETTE CO. FIRE STATION NO. 2

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

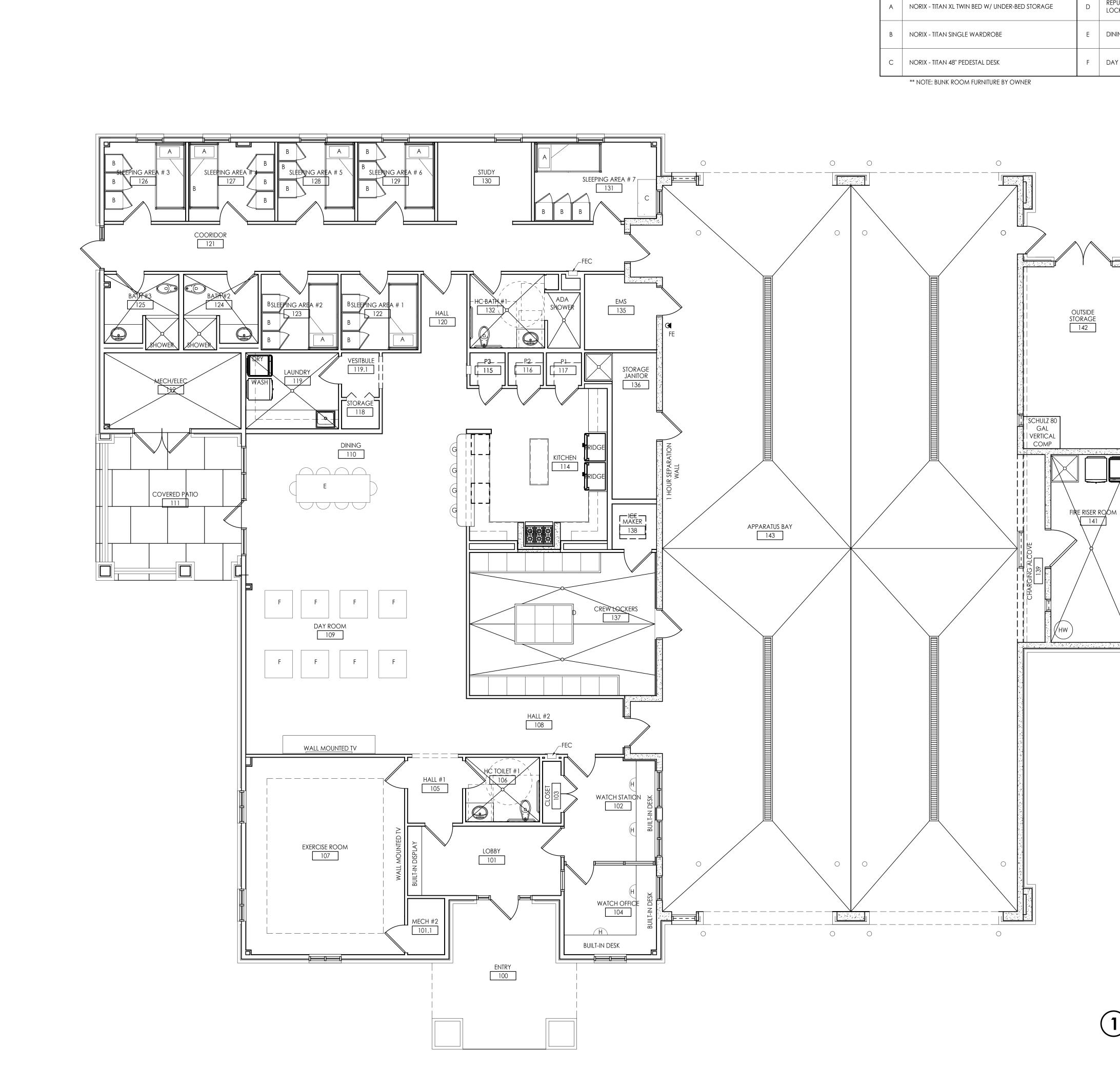
COMMISSION NO: 1852.00

SHEET TITLE:

SHEET NO:

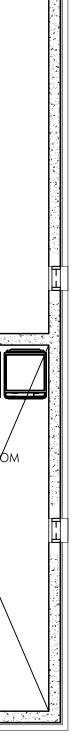
FINISH PLAN

A702 NOT ISSUED FOR CONSTRUCTION

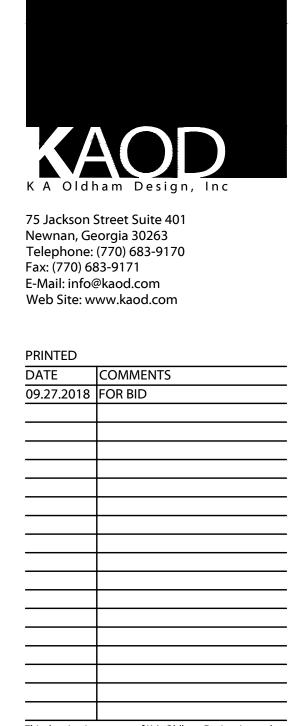


FURNITURE LEGEND							
TAG	DESCRIPTION	TAG	D				
A	NORIX - TITAN XL TWIN BED W/ UNDER-BED STORAGE	D	R				
В	NORIX - TITAN SINGLE WARDROBE	E	D				
С	NORIX - TITAN 48" PEDESTAL DESK	F	D				

DESCRIPTION	TAG	DESCRIPTION
REPUBLIC STORAGE SYSTEMS TURNOUT GEAR OCKERS: 16 RED BARON; 24x24x72	G	BAR STOOLS
DINING TABLE W/ CHAIRS	Н	OFFICE CHAIRS
DAY ROOM RECLINERS		

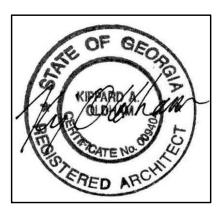


FURNITURE PLAN SCALE: 3/16"=1'-0"



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# FAYETTE CO. FIRE STATION NO. 2

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

COMMISSION NO: 1852.00

SHEET TITLE:

SHEET NO:

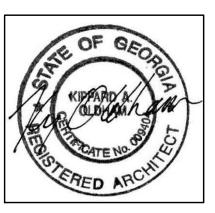
FURNITURE PLAN

A703 NOT ISSUED FOR CONSTRUCTION

					FINISH SCHEDULE				ERIOR FINISH LEGEND				
				F	FLOORS		WALLS	KEYNC	DTE MATERIAL	MANUFACTURER	COLOR/ FINISH	DESCRIPTION AND NOTES	CONTACT
DM NO.	. ROOM NAME	FLOOR	GROUT	BASE	COMMENTS	WALLS	GROUT COMMENTS	WALL	FINISHES				
	ENTRY					Í	1 1	PT - 1		SHERWIN WILLIAMS	SW7690 TOWNHALL TAN	GENERAL PAINT	1.800.4.SHERWIN
	LOBBY	 TL-4	TG-1	-	SEE A702 FOR INSTALLATION	PT-2	SEE INTERIORS A709 FOR MILLWORK DTLS	PT - 2		SHERWIN WILLIAMS	SW7522 MEADOWLARK	ACCENT: SEE INTERIOR PLAN & ELEVATIONS FOR LOCATIONS	1.800.4.SHERWIN
	MECH #2	CONC		RB-1		PT-1	SEE INTERIORS AND TOR MILLWORK DIES	PT - 3		SHERWIN WILLIAMS	SW7593 RUSTIC RED	ACCENT: SEE INTERIOR PLAN & ELEVATIONS FOR LOCATIONS	1.800.4.SHERWIN
	WATCH STATION	CONC CP-		RB-1		PT-1		PT - 4	1 PAINT	SHERWIN WILLIAMS	SW6230 RAINSTORM	ACCENT: SEE INTERIOR PLAN & ELEVATIONS FOR LOCATIONS	1.800.4.SHERWIN
	CLOSET	CP-		RB-1		PT-1		PT - 5	5 PAINT	SHERWIN WILLIAMS	NOT USED		1.800.4.SHERWIN
	WATCH OFFICE	CP-		RB-1		PT-1		PT - 6	5 PAINT	SHERWIN WILLIAMS	SW7004 SNOWBOUND	RESTROOMS	1.800.4.SHERWIN
	HALL #1	TL-4	TG-1			PT-1		PT - 7	' PAINT	SHERWIN WILLIAMS	SW7020 BLACK FOX	MILLWORK @ LAUNDRY, KITCHEN; SEE INTERIOR ELEVATIONS	1.800.4.SHERWIN
	HC TOILET #1	TI -4	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1 SEE A707 FOR TILE INSTALLATION						
	EXERCISE ROOM	RF-1		RB-1		PT-1 ; PT-2	SEE A702 FOR ACCENT WALL LOCATION	TL - 1	CERAMIC TILE	TRADITIONS IN TILE	GLOSS LIGHT SMOKE 0042	4¼ x 8½ GLOSS SUBWAY TILE KITCHEN BACKSPLASH	BERNICE PHELPS 678-416-8681
	HALL #2	CONC		RB-1		PT-1		TL - 2	CERAMIC TILE	TRADITIONS IN TILE	TERRA COTTA BRIGHT U795	3 x 6 GLOSS SUBWAY TILE RESTROOM WALL	BERNICE PHELPS 678-416-8681
	DAY ROOM	CONC		RB-1		PT-1, PT-3, PT-4	SEE A702 FOR ACCENT COLOR LOCATION		CERAMIC TILE	TRADITIONS IN TILE	TAUPE BRIGHT U789	3 x 6 GLOSS SUBWAY TILE RESTROOM WALL ACCENT	BERNICE PHELPS 678-416-8681
	DINING	CONC		RB-1		PT-1, PT-3, PT-4	SEE A702 FOR ACCENT COLOR LOCATION	TL - 5	PORCELAIN TILE	TRADITIONS IN TILE	LIGHT SMOKE SPECKLED A04	2x1 BRICKWORK MOSAIC TILE SHOWER WALL	BERNICE PHELPS 678-416-8681
	COVERED PATIO	-	-	-		-		TG - 1	1 TILE GROUT	TRADITIONS IN TILE	TBD	GENERAL GROUT	BERNICE PHELPS 678-416-8681
	I.T./ELEC	CONC				PT-1		TG - 2	2 TILE GROUT	TRADITIONS IN TILE	TBD	KITCHEN BACKSPLASH GROUT	BERNICE PHELPS 678-416-8681
	SPRINKLER ROOM/MECH #1	CONC				PT-1		—					
	KITCHEN	CONC		RB-1		PT-2 ; TL-1	TG-2 SEE A705 INTERIORS FOR DTLS						
	PANTRY #1	CONC		RB-1		PT-1							
	PANTRY #2	CONC		RB-1		PT-1		FLOO	R FINISHES	-			
	PANTRY #3	CONC		RB-1		PT-1		CP -	1 CARPET TILE	SHAW CONTRACT GROL		24x24 TILE ; MONOLITHIC INSTALLATION	ALLISON MAIR 404.210.3776
	STORAGE	CONC		RB-1		PT-1		RF - 1	RESILIENT FLOORING	JOHNSONITE	COLOR TBD	24x24 RUBBER INTERLOCKING TILE FLOORING; WELLNESS ROOM 112	1.800.899.8916
	LAUNDRY	CONC		RB-1		PT-1	SEE A706 FOR DETAILS	TL - 4	PORCELAIN TILE	TRADITIONS IN TILE	SORRELL; GINGER	6x24 WOOD GRAIN	BERNICE PHELPS 678-416-8681
	VESTIBULE	CONC		RB-1		PT-1							
	HALL #3	CONC		RB-1		PT-1							
	CORRIDOR	CONC		RB-1		PT-1 ; PT-3	SEE A702 FOR ACCENT WALL LOCATIONS						
	SLEEPING AREA #1	CONC		RB-1		PT-1							
	SLEEPING AREA #2	CONC		RB-1		PT-1							
	BATH #2	TL-4 ; TL-5	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1 SEE A708 INTERIORS FOR DETAILS	WALL	BASE FINISHES				
	BATH #3	TL-4 ; TL-5	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1 SEE A708 INTERIORS FOR DETAILS	RB - 1	RUBBER BASE	JOHNSONITE	44 DARK BROWN	4 1/4" REVEAL PROFILE: GENERAL BASE	1.800.899.8916
	SLEEPING AREA #3	CONC		RB-1		PT-1		RB - 2	2 RUBBER BASE	JOHNSONITE	44 DARK BROWN	6" TRADITIONAL: APPARATUS BAY	1.800.899.8916
	SLEEPING AREA #4	CONC		RB-1		PT-1							
	SLEEPING AREA #5	CONC		RB-1		PT-1							
	SLEEPING AREA #6	CONC		RB-1		PT-1							
	STUDY	CONC		RB-1		PT-1		INTER	IOR DOORS, WINDOWS AND	TRIM			
	SLEEPING AREA #7	CONC		RB-1		PT-1		PT - 8	PAINT	SHERWIN WILLIAMS	TBD	DOOR FRAME PAINT: SEMI-GLOSS (WILL MATCH RB-1 COLOR)	1.800.4.SHERWIN
	HC BATH #1	TL-4 ; TL-5	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1 SEE A707 INTERIORS FOR DETAILS	ST - 1	STAIN	SHERWIN WILLIAMS	SW3115-B BISTRO WALNUT	DOOR & LOBBY STAIN	1.800.4.SHERWIN
	EMS	CONC		RB-2		PT-1		PT - 3	B PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	METAL DOOR PAINT	1.800.4.SHERWIN
	STORAGE JANITOR	CONC		RB-2		PT-1		CEILIN	NG FINISHES				
	CREW LOCKERS	CONC		RB-2		PT-1		PT - 9	PAINT	SHERWIN WILLIAMS	SW7006 EXTRA WHITE	CEILING PAINT	1.800.4.SHERWIN
	ICE MAKER	CONC		RB-2		PT-1		CT - 1	1 2x2 TILE	ARMSTRONG	WHITE	CEILING TILE IN SUSPENSION SYSTEM; REF. SPEC.	1.877.ARMSTRONG
	CHARGING ALCOVE	CONC		RB-2		PT-1				1			
	FIRE RISER ROOM	CONC		RB-2		PT-1		MILIV	VORK CABINET FINISHES	•	•	•	•
	OUTSIDE STORAGE	CONC				PT-1		PL - 1		WILSONART	7949K-18 ASIAN NIGHT: LINEARITY FINISH	CABINETRY @ KITCHEN, LAUNDRY, & RESTROOMS	
	APPARATUS BAY	CONC		RB-2		PT-1	SEE A702 FOR ACCENT WALL LOCATIONS						
								──					
									VORK COUNTER FINISHES	I		1	
	1			L				SS - 1		CORIAN QUARTZ	ANTIQUE PEARL	COUNTERTOP @ KITCHEN	JASON DEMARCHI 770.298.20
										CORIAN QUARTZ	SAVANNAH	COUNTERTOP @ RITCHEN COUNTERTOP @ RESTROOMS, LAUNDRY	JASON DEMARCHI 770.298.20
								ALT-1	PLASTIC LAMINATE	WILSONART	STANDARD LAMINATE: 4946-38 NATURAL	COUNTERTOP @ LAUNDRY	



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1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

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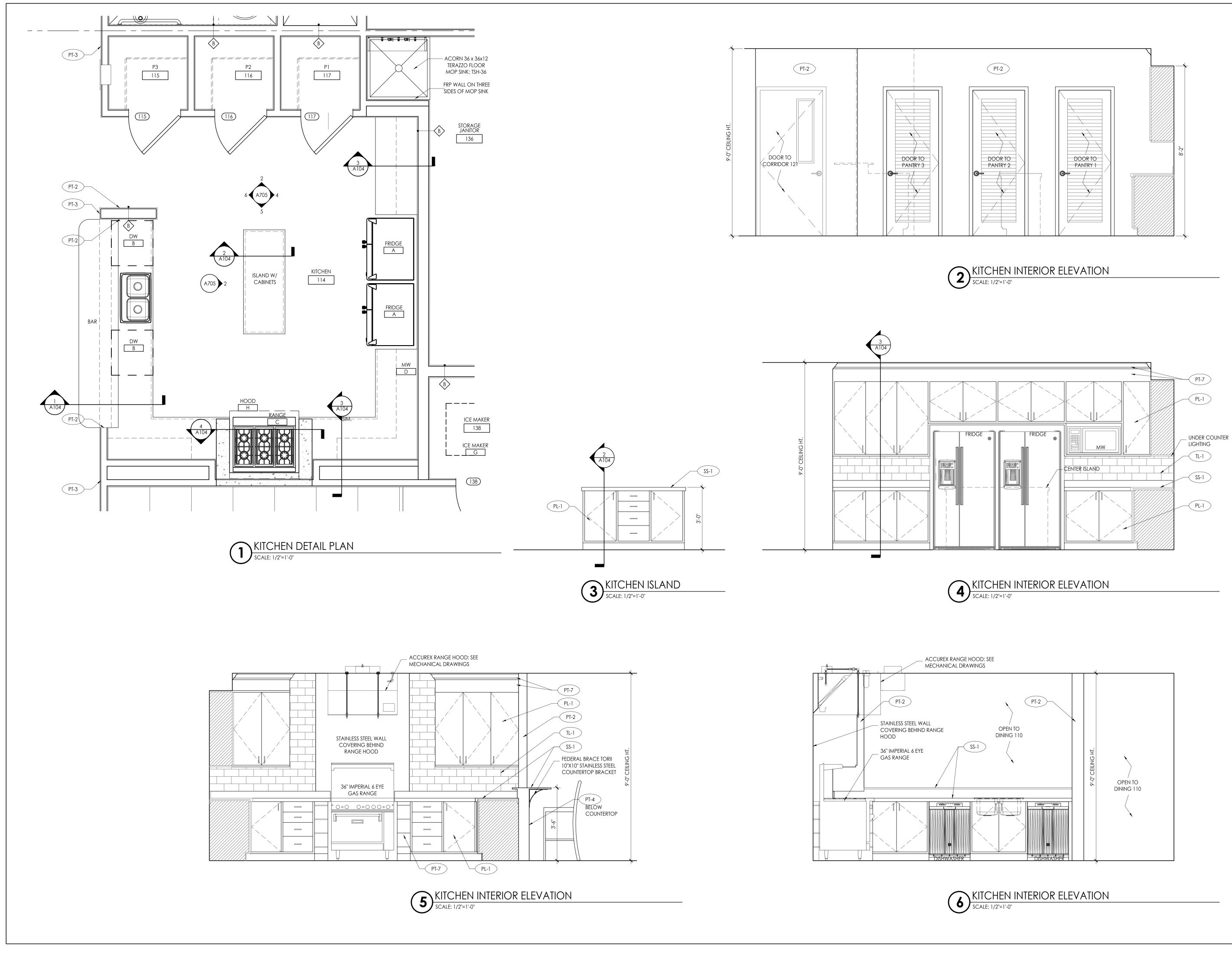
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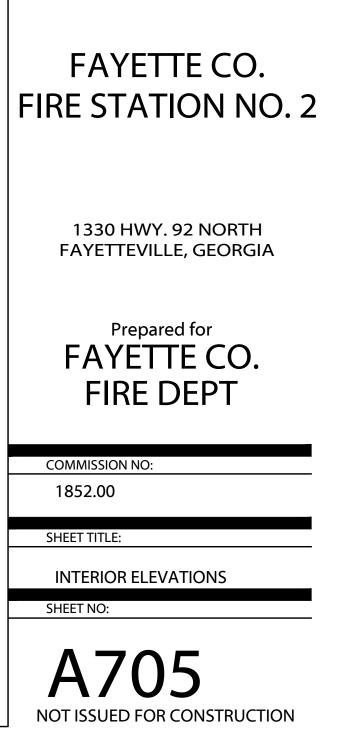
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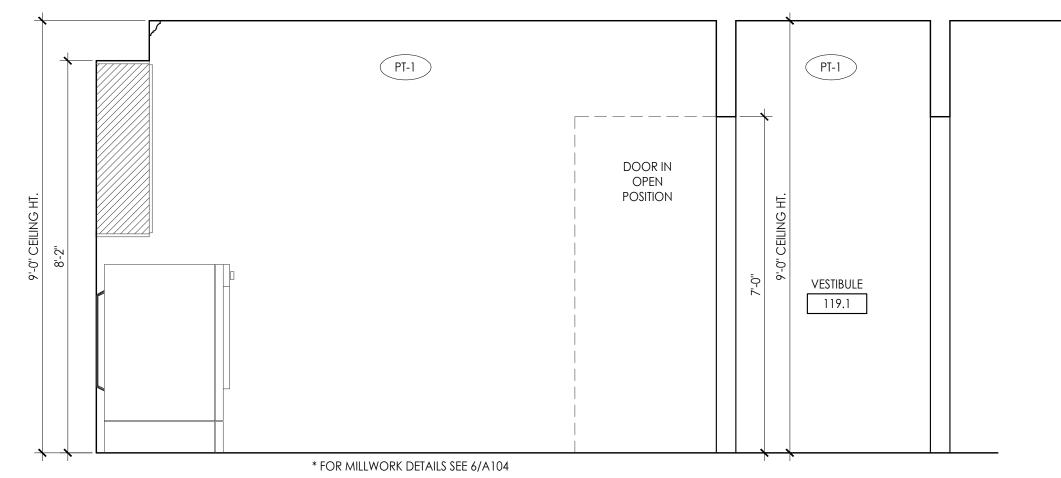
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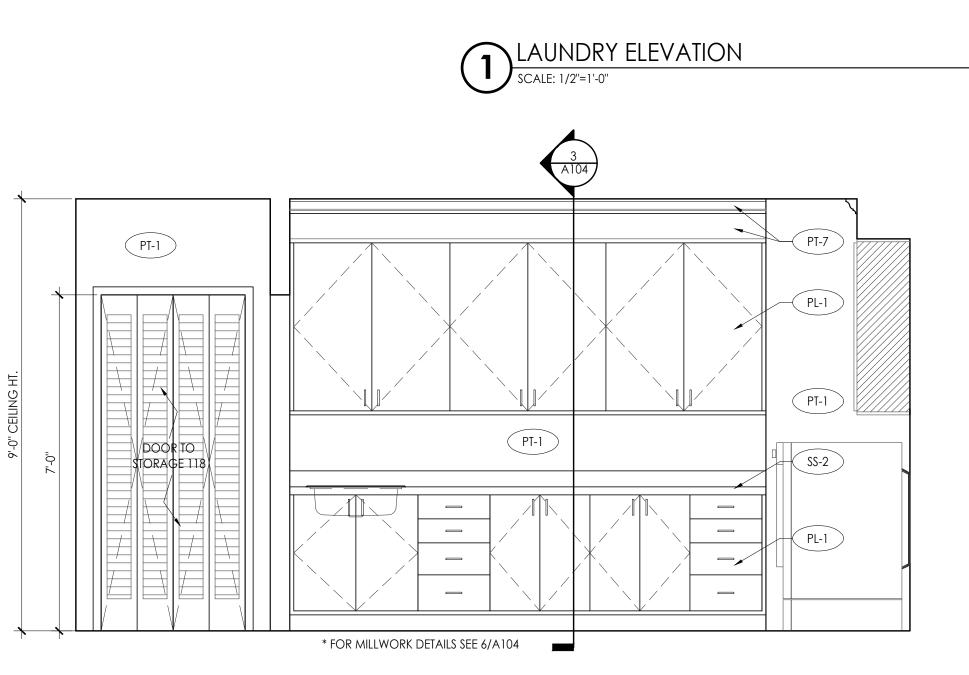


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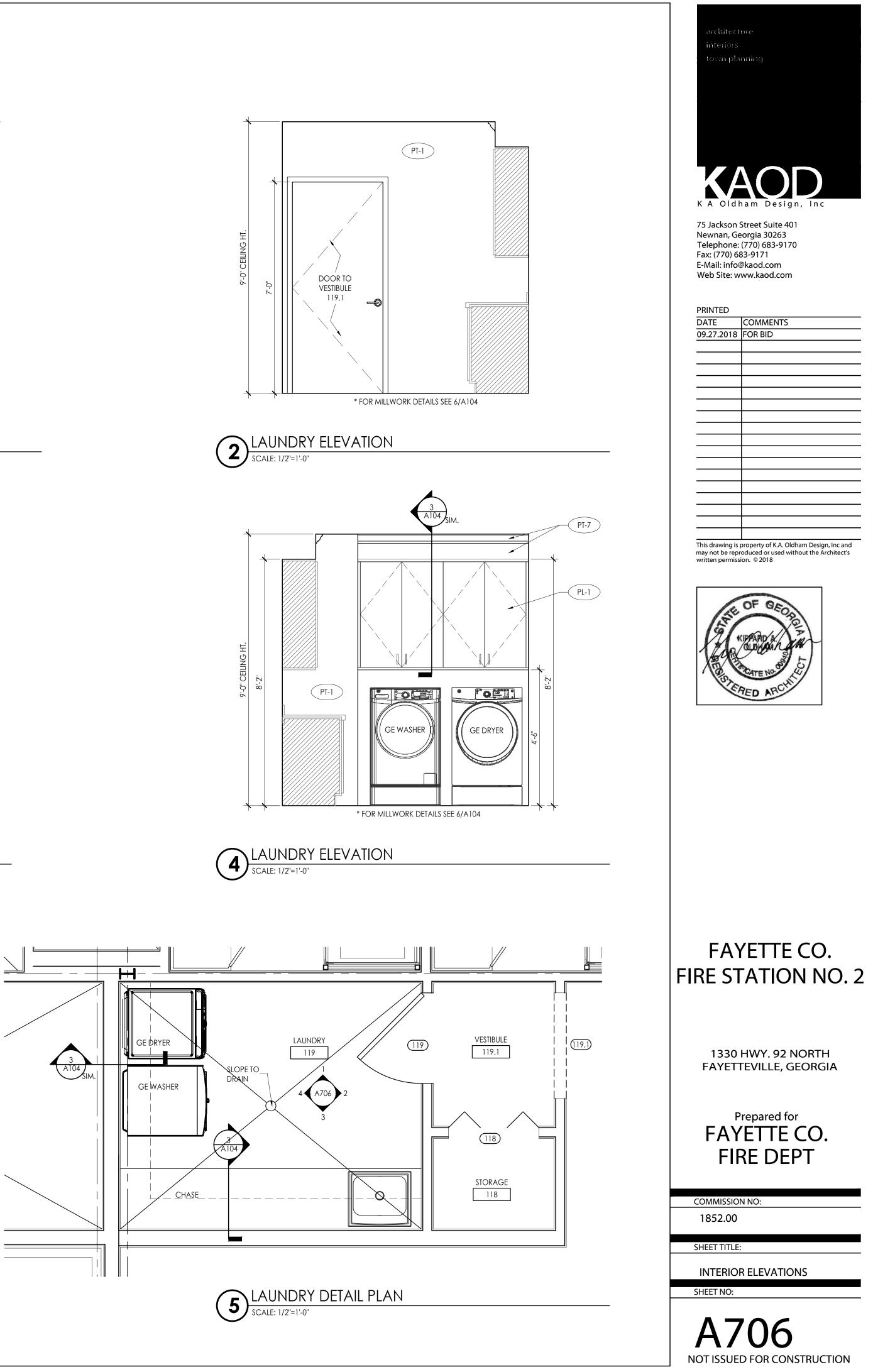
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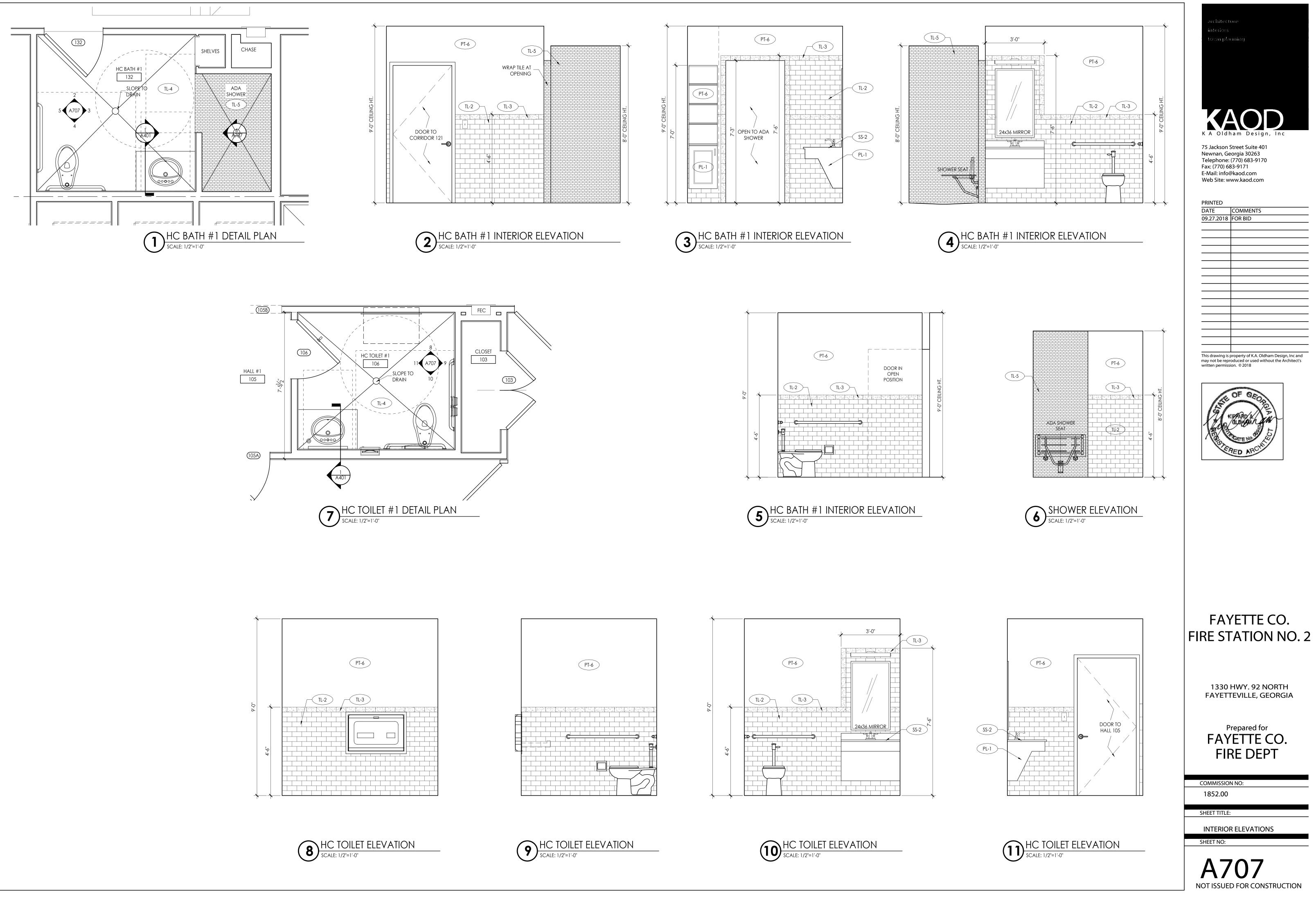


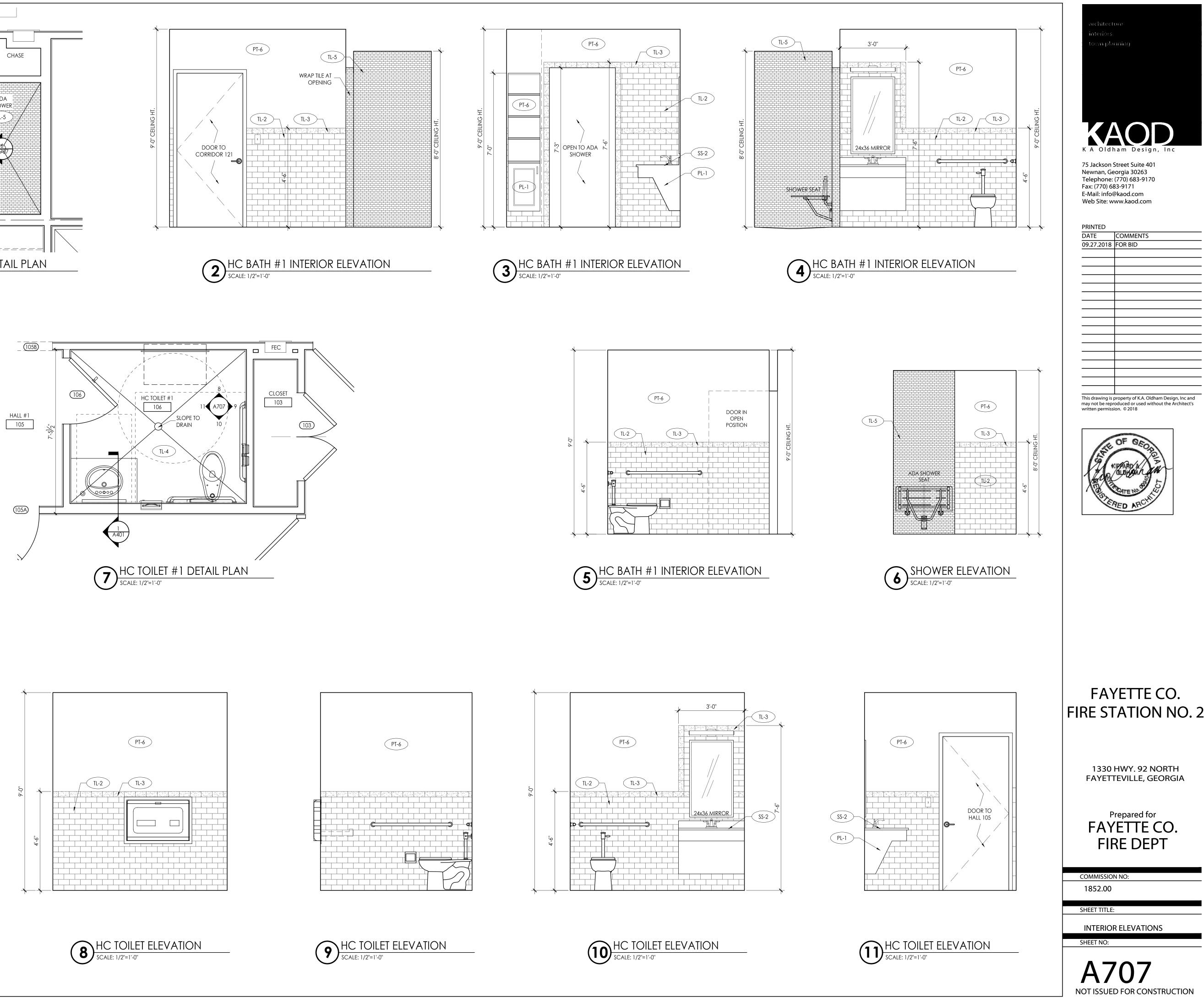


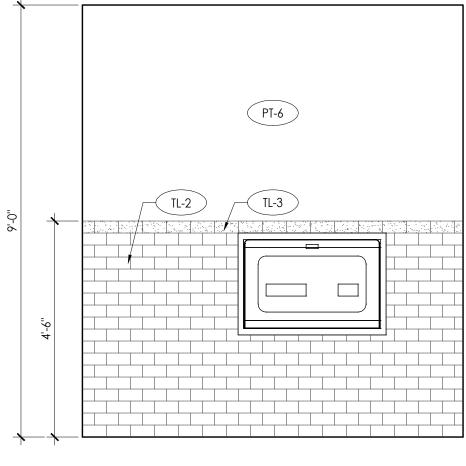






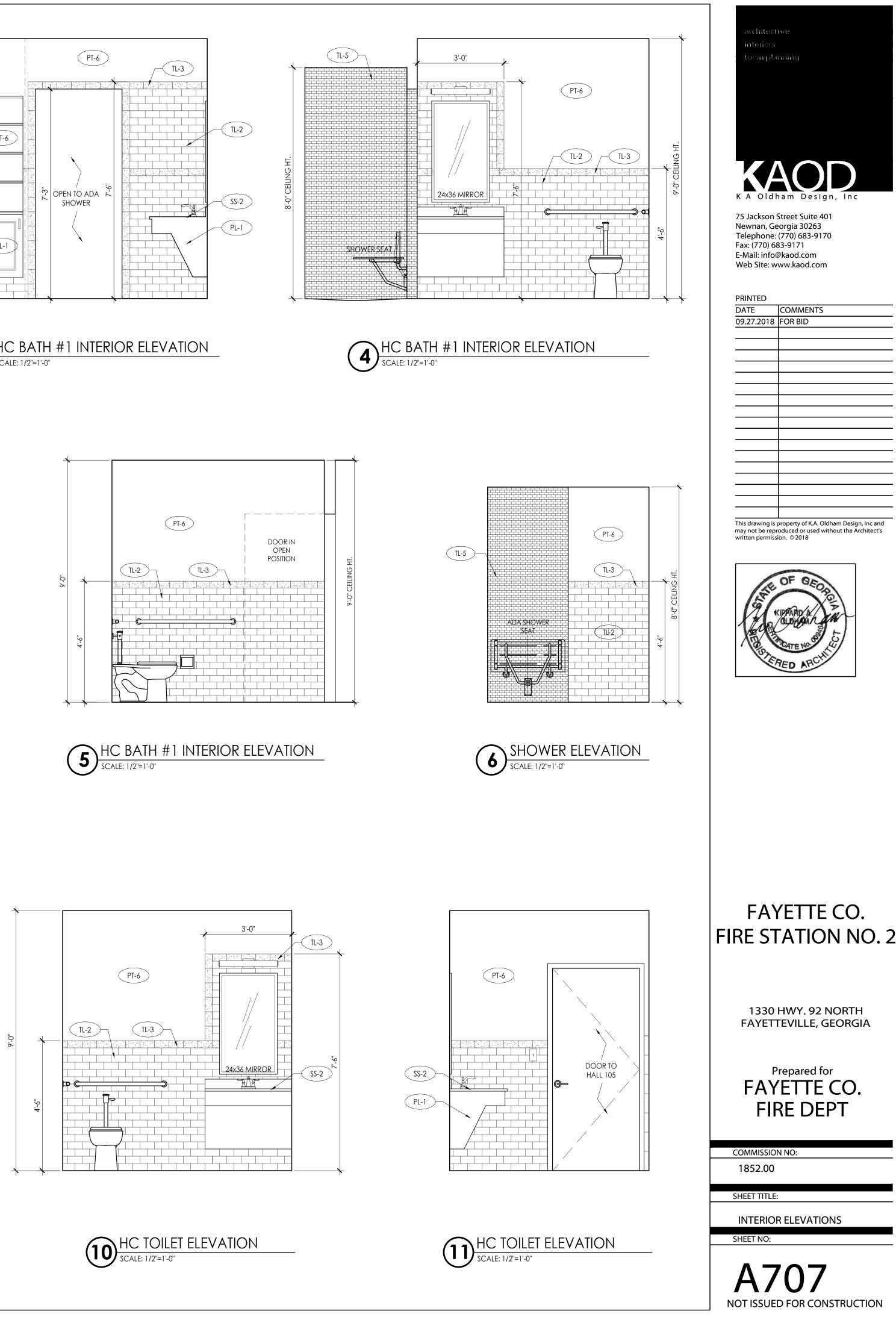




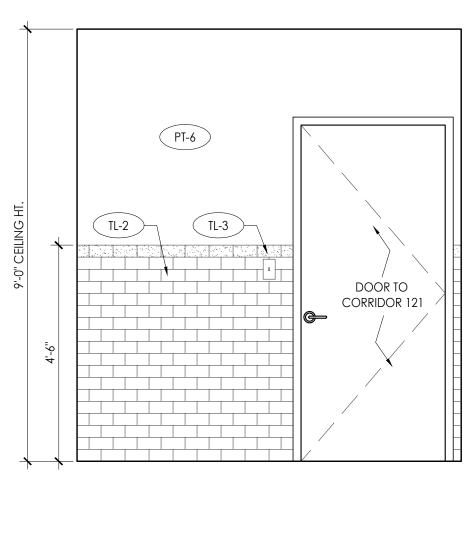


	PT-6	)	
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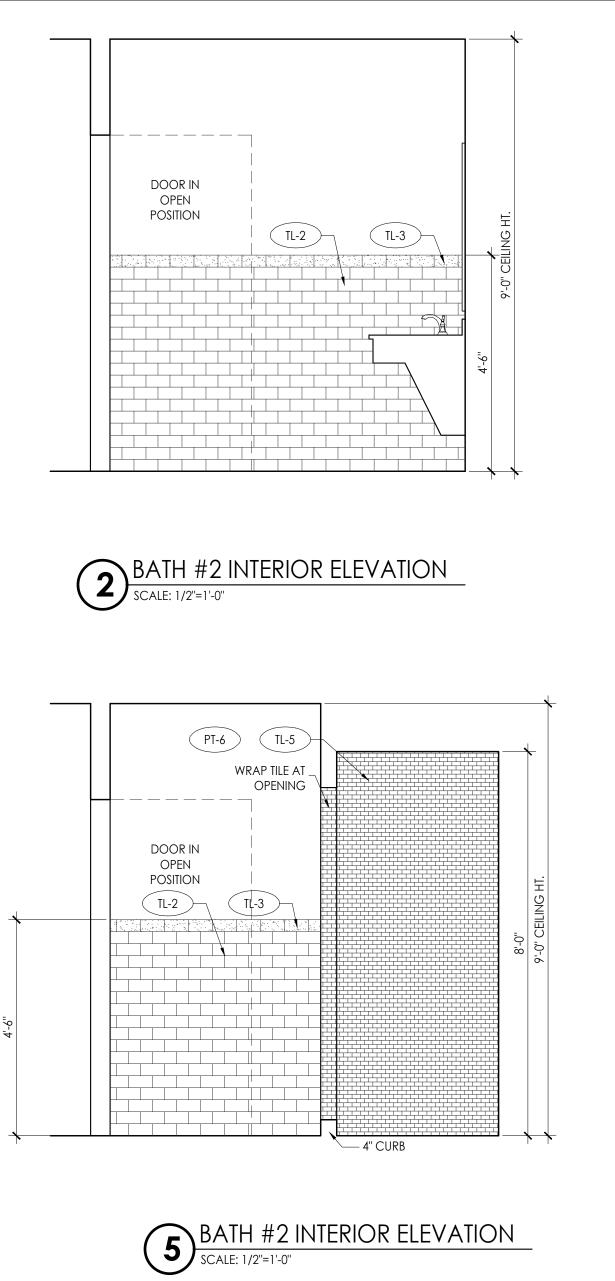


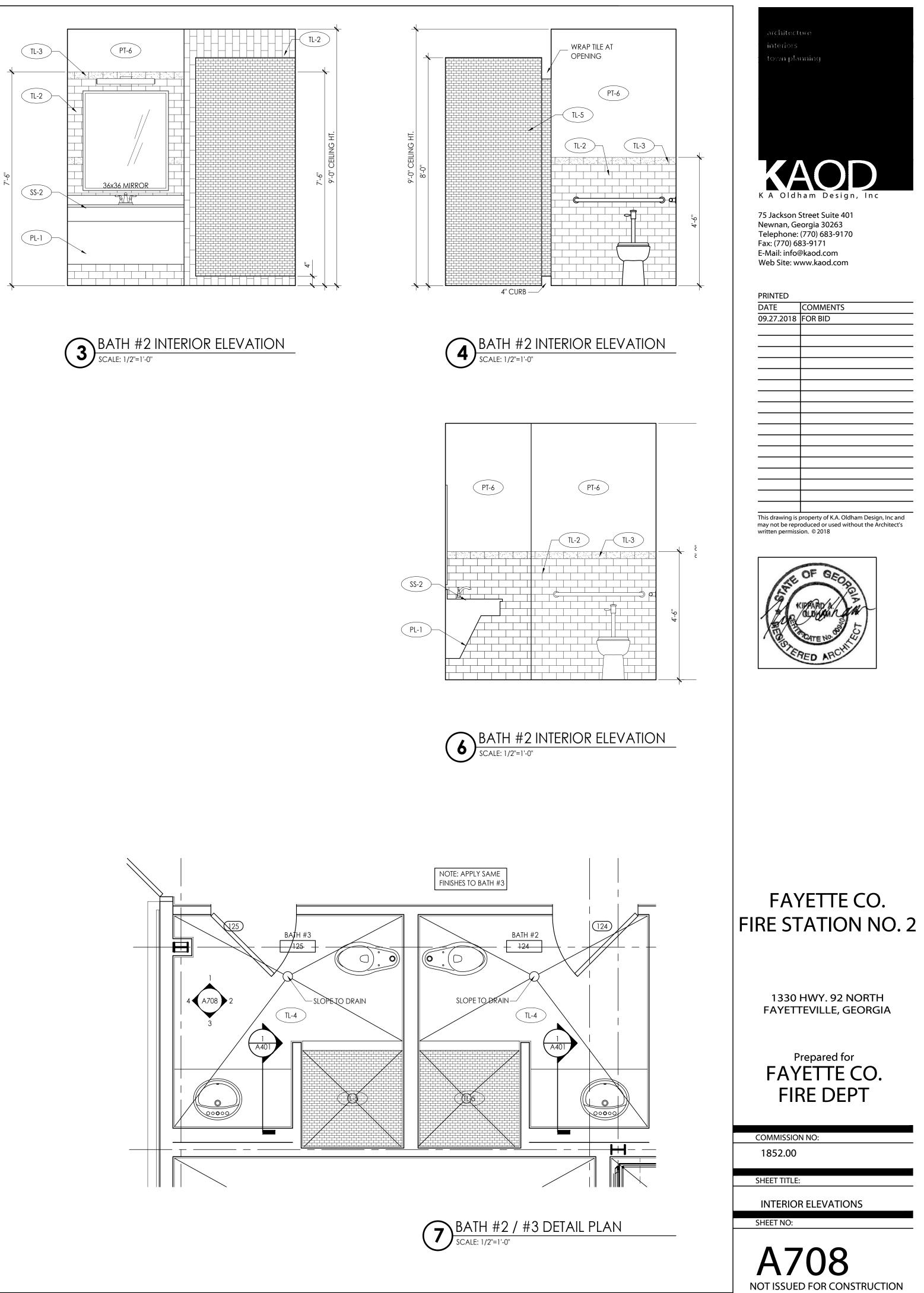




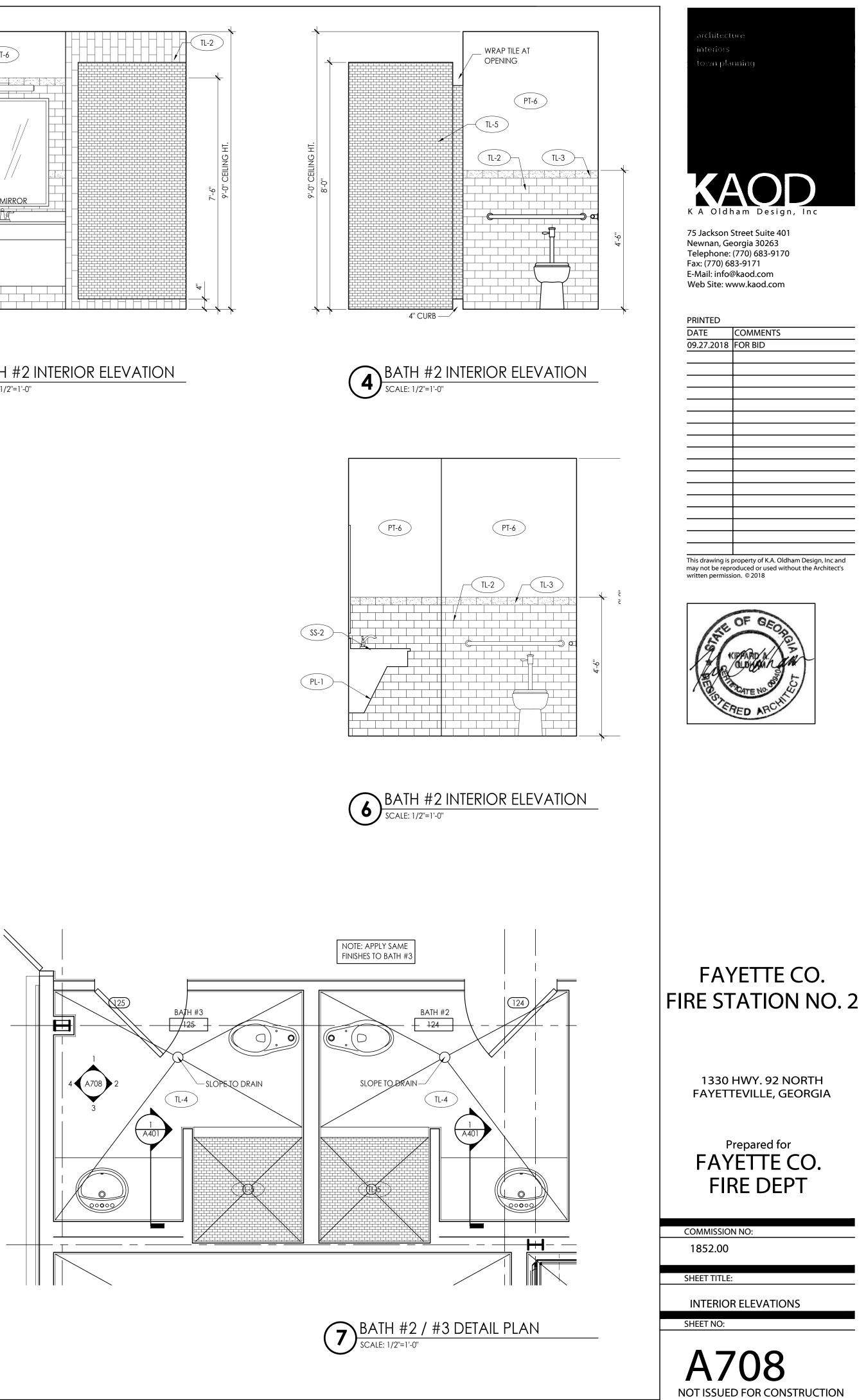


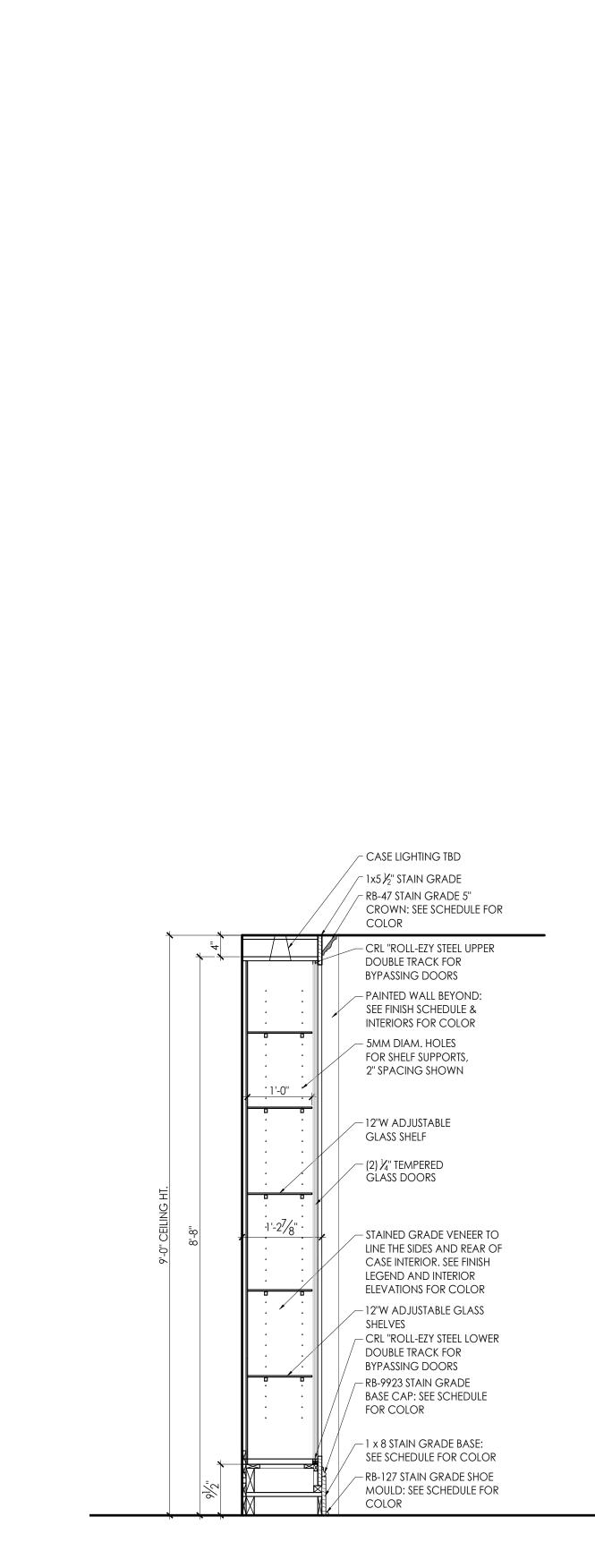






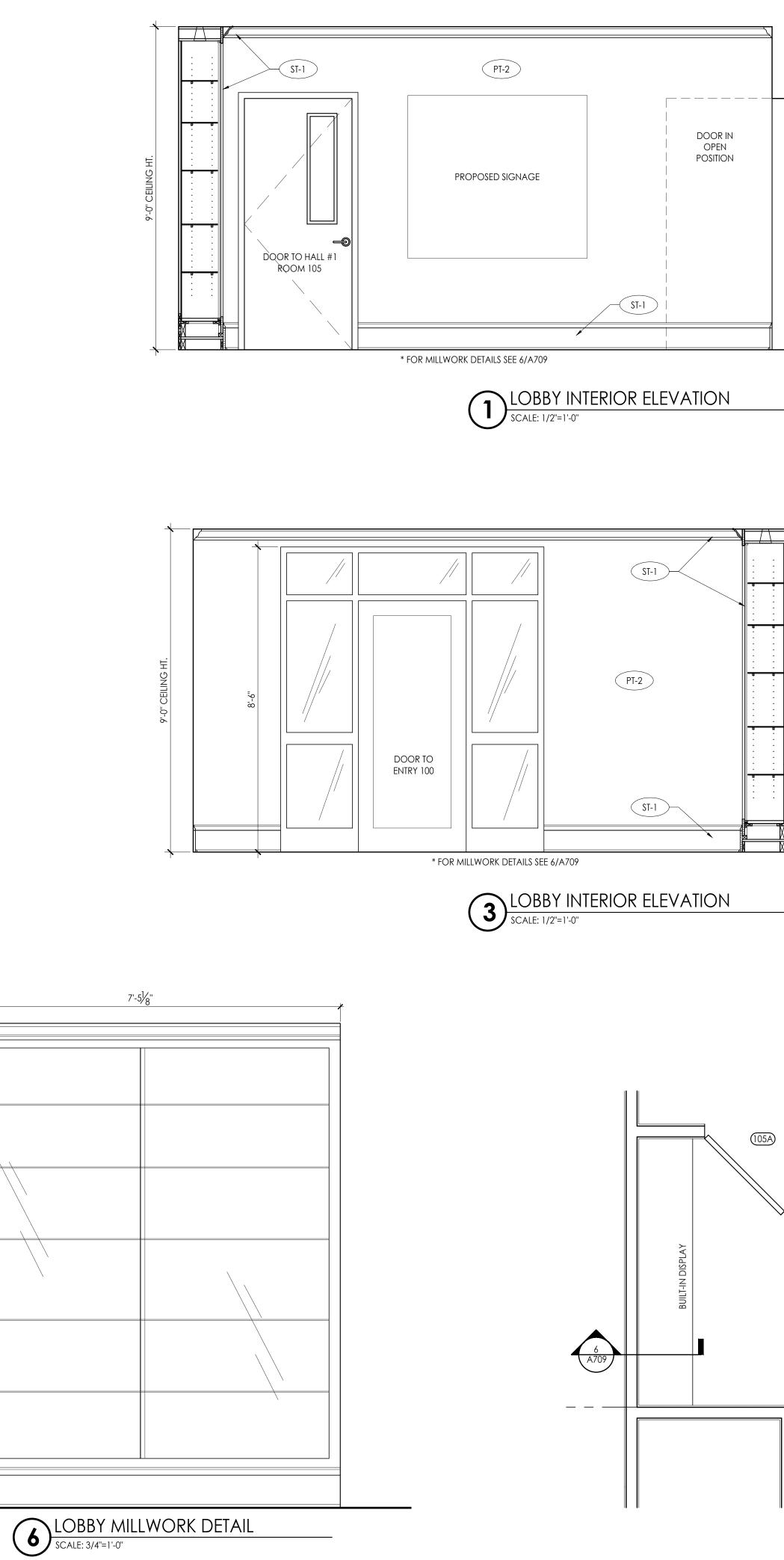


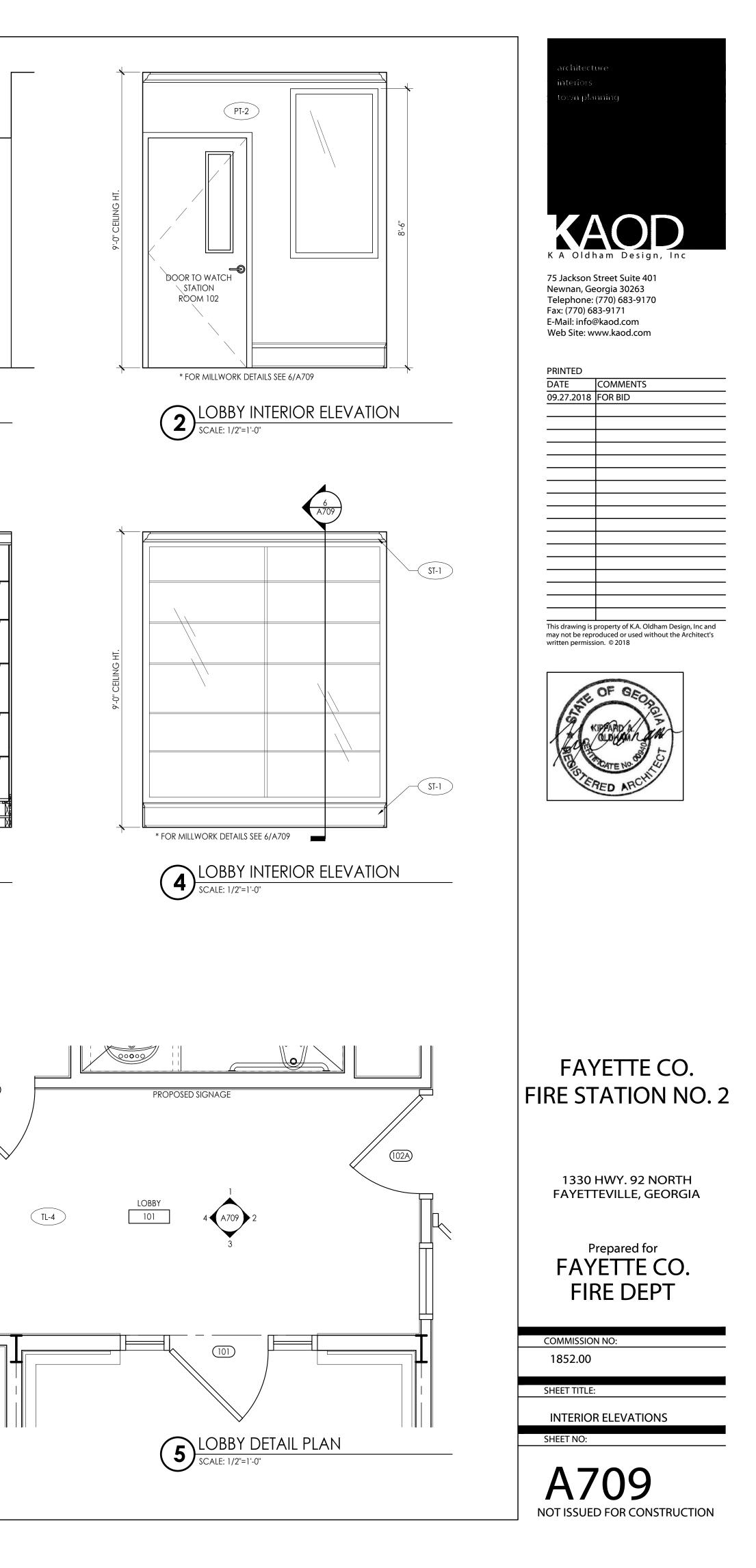


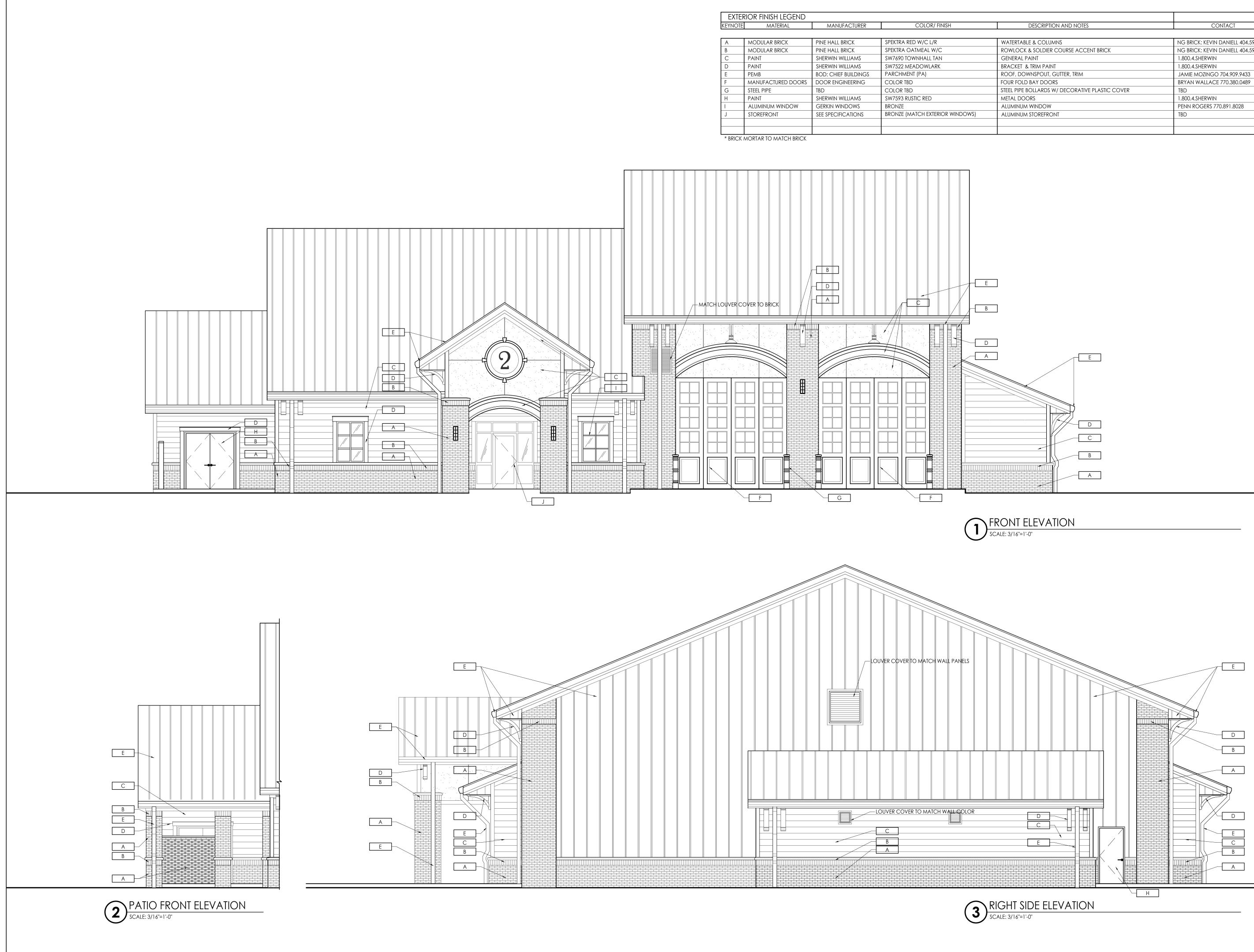


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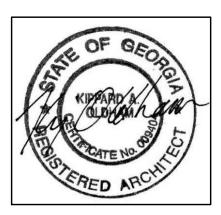


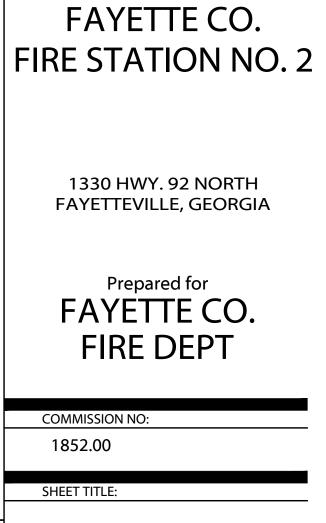


(EYNOTE	MATERIAL	MANUFACTURER	COLOR/ FINISH	DESCRIPTION AND NOTES	CONTACT
. 1		I			
A	MODULAR BRICK	PINE HALL BRICK	SPEKTRA RED W/C L/R	WATERTABLE & COLUMNS	NG BRICK: KEVIN DANIELL 404.597.240
В	MODULAR BRICK	PINE HALL BRICK	SPEKTRA OATMEAL W/C	ROWLOCK & SOLDIER COURSE ACCENT BRICK	NG BRICK: KEVIN DANIELL 404.597.240
С	PAINT	SHERWIN WILLIAMS	SW7690 TOWNHALL TAN	GENERAL PAINT	1.800.4.SHERWIN
D	PAINT	SHERWIN WILLIAMS	SW7522 MEADOWLARK	BRACKET & TRIM PAINT	1.800.4.SHERWIN
E	PEMB	BOD: CHIEF BUILDINGS	PARCHMENT (PA)	ROOF, DOWNSPOUT, GUTTER, TRIM	JAMIE MOZINGO 704.909.9433
F	MANUFACTURED DOORS	DOOR ENGINEERING	COLOR TBD	FOUR FOLD BAY DOORS	BRYAN WALLACE 770.380.0489
G	STEEL PIPE	TBD	COLOR TBD	STEEL PIPE BOLLARDS W/ DECORATIVE PLASTIC COVER	TBD
Н	PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	METAL DOORS	1.800.4.SHERWIN
I	ALUMINUM WINDOW	GERKIN WINDOWS	BRONZE	ALUMINUM WINDOW	PENN ROGERS 770.891.8028
J	STOREFRONT	SEE SPECIFICATIONS	BRONZE (MATCH EXTERIOR WINDOWS)	ALUMINUM STOREFRONT	TBD



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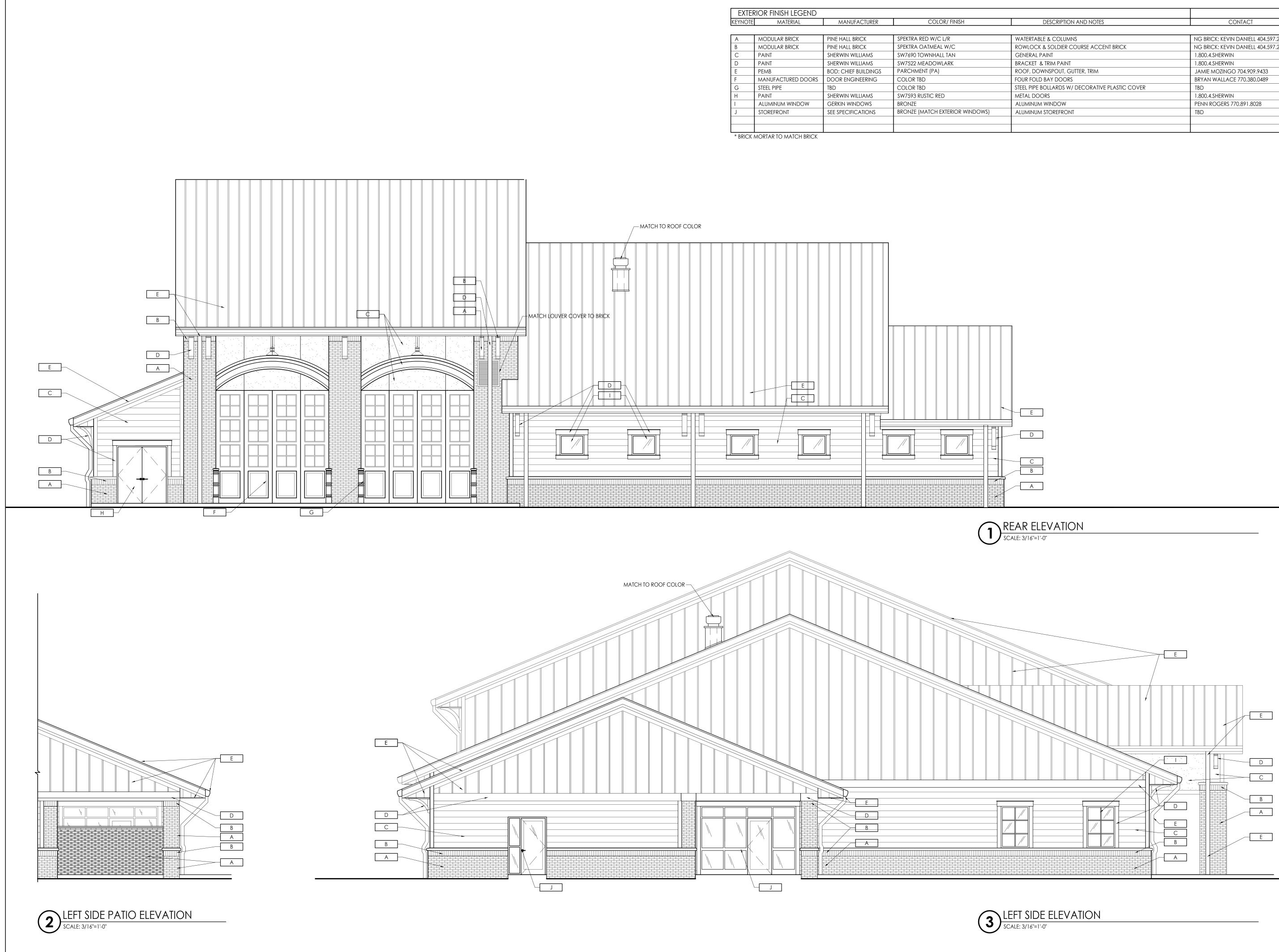




EXTERIOR FINISHES

SHEET NO:

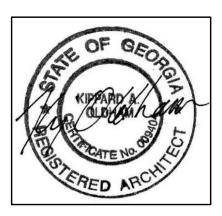
A710 NOT ISSUED FOR CONSTRUCTION



EYNOTE	MATERIAL	MANUFACTURER	COLOR/ FINISH	DESCRIPTION AND NOTES	CONTACT
4	MODULAR BRICK	PINE HALL BRICK	SPEKTRA RED W/C L/R	WATERTABLE & COLUMNS	NG BRICK: KEVIN DANIELL 404.597.2405
3	MODULAR BRICK	PINE HALL BRICK	SPEKTRA OATMEAL W/C	ROWLOCK & SOLDIER COURSE ACCENT BRICK	NG BRICK: KEVIN DANIELL 404.597.2405
2	PAINT	SHERWIN WILLIAMS	SW7690 TOWNHALL TAN	GENERAL PAINT	1.800.4.SHERWIN
C	PAINT	SHERWIN WILLIAMS	SW7522 MEADOWLARK	BRACKET & TRIM PAINT	1.800.4.SHERWIN
	PEMB	BOD: CHIEF BUILDINGS	PARCHMENT (PA)	ROOF, DOWNSPOUT, GUTTER, TRIM	JAMIE MOZINGO 704.909.9433
=	MANUFACTURED DOORS	DOOR ENGINEERING	COLOR TBD	FOUR FOLD BAY DOORS	BRYAN WALLACE 770.380.0489
G	STEEL PIPE	TBD	COLOR TBD	STEEL PIPE BOLLARDS W/ DECORATIVE PLASTIC COVER	TBD
-	PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	METAL DOORS	1.800.4.SHERWIN
	ALUMINUM WINDOW	GERKIN WINDOWS	BRONZE	ALUMINUM WINDOW	PENN ROGERS 770.891.8028
l	STOREFRONT	SEE SPECIFICATIONS	BRONZE (MATCH EXTERIOR WINDOWS)	ALUMINUM STOREFRONT	TBD

chitecture K A Oldham Design, Inc 75 Jackson Street Suite 401 Newnan, Georgia 30263 Telephone: (770) 683-9170 Fax: (770) 683-9171 E-Mail: info@kaod.com Web Site: www.kaod.com PRINTED DATE COMMENTS 09.27.2018 FOR BID \_\_\_\_\_ \_\_\_\_\_

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FAYETTE CO. FIRE STATION NO. 2

1330 HWY. 92 NORTH FAYETTEVILLE, GEORGIA

Prepared for FAYETTE CO. FIRE DEPT

COMMISSION NO: 1852.00

SHEET TITLE:

SHEET NO:

**EXTERIOR FINISHES** 

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## HVAC SPECIFICATIONS

#### HVAC GENERAL

Refer to all other drawings and specifications, and be responsible for all applicable provisions therein. Furnish and install all necessary labor and materials for a complete system. Any appliances or materials obviously a part of the system and necessary for its proper operation, although not specifically mentioned herein, shall be furnished and installed as if called for in detail. Workmanship and materials shall be in accordance with all state and local codes, NFPA 90A, and the FCFD standards. Attain and pay for all required permits and fees. Equipment and materials shall be new unless otherwise specified. Mechanical Contractor shall be licensed to handle CFC refrigerants.

Drawings are generally diagrammatic and do not necessarily show every fitting, offset, drop and rise of runs, and detail. Install ducts, equipment, and controls in a neat, workmanlike manner and in accordance with good practice for a complete, workable installation. Avoid conflict with other work; make adequate provisions for preventing noise and vibration. Drawings indicate locations of fixtures, apparatus, ductwork and piping; while these are to be followed as closely as possible, if it is necessary to change the location of same to accommodate building conditions, make changes without additional cost to the Owner and as approved by the Architect. Provide adequate access to equipment and apparatus requiring operation, service, or maintenance within the life of the system. Do not run piping or ductwork, or locate equipment (with respect to switchboards, panel boards, power panels, motor control centers, or dry type transformers) within 42 inches in front of equipment, over equipment, or within 36 inches horizontally of same space.

#### COORDINATION

Coordinate all work under this Division with work under other Divisions. Provide adjustments as necessary. Equipment, apparatus, ductwork, piping, etc., installed without regard for the space requirements of other trades will be reworked at the expense of the installing subcontractor if it creates an unnecessary hindrance to the installation of another trade's work. All items mounted at or below the ceiling and any item penetrating the ceiling shall be coordinated with the architectural reflected ceiling plans.

#### PROTECTION OF WORK DURING CONSTRUCTION

Provide protective covers, skids, plugs, or caps to protect equipment and materials from damage and deterioration during construction. Protect exposed coils with plywood or other suitable rigid covers to avoid damage to fins.

Protect all equipment and materials from damage. Any damage shall be repaired using the same materials at the Contractor's cost.

#### SUBMITTALS

Submit for review shop drawings, in Adobe PDF format, on all equipment, grilles and diffusers, automatic control diagrams, ductwork layout, piping layout, and sheet metal construction standards.

Submit all shop drawings for review and approval prior to purchase, fabrication, and installation.

TESTING

Refrigerant piping shall be leak tested using nitrogen and refrigerant charge with electronic leak detector. After repairing leaks, retest as required. After leak test, dehydrate by producing and holding vacuum of 2.5 in. hg. Maintain vacuum for 24 hours with maxmum 0.05 in. pressure rise. If leakage exceeds 0.05 in., repeat all of test before dehydration.

All leaks shall be repaired by tightening, re-welding, or replacing pipe and fittings.

Adjust dampers, registers, and diffusers for proper air distribution. Check system under actual operatina conditions, and make adjustments for a uniform temperature through the conditioned space.

#### CLEANING AND ADJUSTING

The exterior surfaces of all mechanical equipment, piping, ducts, etc., shall be cleaned of all grease, oil, paint, and other construction debris. Ducts, plenums, and casings shall be cleaned of all debris and blown free of all particles of rubbish and dust before installing outlet faces. Bearings that require lubrication shall be lubricated in accordance with the manufacturer's recommendations. All control equipment shall be adjusted to the settings indicated or required for performance as specified. Flush water piping systems until water runs clean. Remove all stickers, rust, stains, labels, and temporary covers before final acceptance. Remove foreign matter from equipment, piping and ductwork systems, and appurtenances. Clean and polish identification plates. Remove all trash and debris from the job site on a daily basis.

#### BALANCING

Contractor shall retain the services of an independent Test and Balance agency. Testing and balancing of the HVAC systems shall be performed in accordance with AABC or NEBB standards.

### GUARANTEE

Materials and workmanship shall be guaranteed against defects for one year. Provide additional four years warranty on all compressors.

#### FOUIPMENT IDENTIFICATION

Provide labels for each equipment, starter and control switch. Labels to be engraved laminated bakelite nameplates with 1/4-inch high white cut letters; secure to starter or switch.

OPENINGS THROUGH ROOF AND EXTERIOR WALLS

Provide all necessary flashing and counterflashing to maintain the waterproof integrity of this building as required by the removal and/or installation of pipes, ducts, conduits, and equipment. Submit for review to the building management.

#### HVAC INSULATION

Quality Assurance: Specified components of this insulation system, including facings, mastics, and adhesives, shall have a fire hazard rating not to exceed 25 for flame spread and 50 for smoke developed rating, as per tests conducted in accordance with ASTM E84 (NFPA 255) methods.

#### Pipe Insulation:

TYPE P1 ASTM C534: Flexible, closed cell elastomeric, nominal 6 P.C.F. density, K factor 0.27 maximum at 75 degrees F mean, plenum rated.

Approved products: Armstrong AP Armaflex, Manville Aerotube II, Nomaco Therma-Cel, Rubatex R-180-F5. Duct Insulation:

TYPE D1 ASTM C553 TYPE 1, CLASS B3: Fiberglass, nominal 1 (one) P.C.F. density blanket, K factor 0.31 maximum at 75 degrees F mean, with factory—applied FSK (Foil—Scrim—Kraft) vapor barrier jacket, for temperatures to 250 degrees F.

Approved products: CertainTeed "Standard Duct Wrap", Manville "Microlite", Owens/Corning Fiberglass RFK-75, Knauf "Ductwrap"

HVAC INSULATION (CONTINUED)

TYPE D2: Fiberglass, nominal 2.0 P.C.F. density liner, K factor 0.26 maximum at 75 degrees F mean, black coating, for temperatures to 250 degrees F.

Approved products: CertainTeed Ultralite Duct Liner 200, Manville Linacoustic, Knauf Duct Liner M.

TYPE D3: High temperature fiber type blanket insulation encapsulated in a fiberglass-reinforced aluminized polyester foil, nominal 6.0 PCF density, K factor 0.11 maximum at 75 degrees F mean, for temperatures to 1000 degrees F.

Approved products: 3M Fire Barrier Duct Wrap 615+, or approved equal.

Installation of Pipe Insulation:

Install insulation on pipe systems subsequent to testing and acceptance of test.

Maintain integrity of vapor-barrier jackets on pipe insulation, and protect to prevent puncture or other damage. Seal open ends of insulation with mastic. Sectionally seal all butt ends of all cold water piping insulation at fittings with white vapor barrier coating.

Cover valves, flanges, fittings, and similar items in each piping system with equivalent thickness and composition of insulation as applied to adjoining pipe run. Install factory-molded, precut or job-fabricated units (at Installer's option). Finish cold pipe fittings with white vapor barrier coating and hot piping with white vinyl acrylic mastic, both reinforced with glass cloth.

Extend piping insulation without interruption through walls, floors, and similar piping penetrations, except where otherwise indicated.

Where insulation is exposed on the exterior of the building, paint insulation with UV inhibitor paint, as recommended by the insulation manufacturer.

Installation of Ductwork Insulation:

Maintain integrity of vapor-barrier on ductwork insulation, and protect it to prevent puncture and other damage. Tape all punctures. Secure all ductwork with galvanized wire 12 inches O.C. Secure ductwork with outward clinching staples. Seal all longitudinal and circumferential joints with FSK tape.

Extend ductwork insulation without interruption through walls, floors, and similar ductwork penetrations, except where otherwise indicated.

Omit insulation on supply and return ductwork where internal insulation or sound-absorbing linings is installed.

All internal insulation shall be adhered to the duct with 100% coverage of approved fire-retardant mastic. All edges shall be sealed and any abrasions or tears repaired with mastic.

Increase indicated duct sizes to compensate for liner thickness.

Insulation Requirements:

Refrigerant Gas Piping: TYPE P1, 3/4-INCH THICKNESS

Interior Condensate Drain Piping: TYPE P1, 1/2-INCH THICKNESS

Ductwork, Supply, Return and Outside Air: TYPE D1, 2-INCH THICKNESS

Ductwork, Rectangular Supply and Return within 5 feet of each furnace-coil unit: TYPE D2, 1-INCH THICKNESS

Ductwork, Range Exhaust: TYPE D3, TWO LAYERS, 1.5" THICKNESS EACH, (TOTAL THICKNESS = 3")

SHEET METAL WORK

PIPING

Except as otherwise noted, all ductwork and other sheet metal work shall be installed in accordance with latest edition of the Sheet Metal and Air Conditioning Contractor National Association, Inc. (SMACNA), HVAC Duct Construction Standards manual. Ductwork shall be galvanized sheet steel, unless otherwise noted. Fiberalass ductwork is NOT acceptable.

Minimum ductwork static pressure construction shall be 2-inch W.G. All ducts shall be seal Class "C".

Low pressure flexible duct shall be similar to Flexmaster Type 5 or approved equal, with 1-inch thick insulation and shall conform to U.L. 181 and NFPA Bulletin 90A. Maximum length shall not exceed four (4) feet.

Volume Dampers: Same material as duct, per SMACNA, except provide bearing at one end of damper rod and quadrant with lever and lockscrew at other end. For insulated ducts, quadrants mounted on collar shall clear insulation; install with levers accessible outside insulation. Balancing dampers shall be the opposed blade type.

Flexible Connections: Neoprene-coated glass fabric, 30 oz. per square yard with sewed and cemented seams, similar to vent fabrics. Provide flexible connections between all equipment and rigid ductwork. Fabric connections shall be at least four (4) inches long and have metal collar at each end; allow at least one-inch slack to eliminate vibration transmission.

Turning Vanes: Galvanized steel, single thickness vanes with minimum 2-inch inside radius. All square elbows shall have turning vanes.

Duct sizes shown are clear inside dimensions. Where internal insulation is called for, dimensions shall be increased by thickness of insulation.

Portions of ductwork visible through supply and return air openings shall be painted flat black.

Transition rectangular ductwork on the bottom and the sides. Maintain ductwork level and as high as possible unless noted otherwise.

All branch ductwork shall be sized to match the inlet of the diffusers or grille served. Flexible duct runouts may NOT be used in inaccessible locations.

All duct transitions from square to round shall be smooth square-to-round transitions. Spin-in fittings at the end of capped ducts are not acceptable.

For round duct take-offs from metal ducts, use Genflex Model No. SM-1DEL "Spin-in" fitting.

Range exhaust ductwork shall be fabricated from minimum 16 gauge carbon steel sheet metal, with all seams and butt joints continuously welded to provide a liquid tight duct system. Provide gasketed duct cleanout at each change of direction. Slope ductwork toward range hood at minimum 1" per foot.

General: Piping shall be complete with pipe fittings, valves, couplings, hanger rods, hangers, supports, guides, sleeves, and accessories in conformance with the latest codes and ASME, ANSI, ASTM, and MSS Standards.

For pipe sizes not indicated on plans, see manufacturer's equipment connection details.

Avoid entry of foreign matter into piping during construction. After completion of piping, flush water system with water until clear.

Provide minimum pitch to insure adequate venting and drainage.

PIPING (CONTINUED)

Piping Material:

Condensate discharge piping shall be schedule 40 PVC.

Natural gas piping installed above grade shall be schedule 40 black steel with black malleable iron screw fittings for 0.5 psig and lower pressures, and forged steel socket weld fittings for pressures greater than 0.5 psig. Underground gas piping shall be HDPE, designed specifically for use in natural gas systems of the pressures indicated on the drawings.

Refrigerant Pipe Size:

AIR DISTRIBUTION DEVICES

Ceiling diffusers shall be 4-way throw, unless shown otherwise on drawings.

All diffusers and registers shall be furnished with opposed-blade dampers.

reflected ceiling plan.

EQUIPMENT

Split system air conditioning units: Direct expansion split system air conditioning systems consisting of an outdoor, air cooled condensing unit and an indoor furnace-coil unit complete with direct-driven centrifugal blower assembly, evaporator coil with drain pan, natural gas—fired heating element and inlet filter rack with filter. Capacities shall be as scheduled on the drawings. Units shall be provided with a seven day programmable wall thermostat with "FAN ON-AUTO" control. Split system air conditioning units shall be Carrier, as scheduled, or approved equal.

Fans: Shall be Cook or Acurex models, as scheduled on the drawings, or equal. Roof mounted fans shall be spun aluminum, centrifugal type, complete with weatherproof housing, direct driven centrifugal fan wheel, electrically commutated (variable speed) motor, disconnect switch, birdscreen, factory fabricated roof curb compatible with the sloped roof type, curb extension and hinged base. Ceiling fans shall be centrifugal type, complete with perforated metal inlet grille, acoustically lined housing, disconnect switch, duct collar with gravity shutter and electronic speed controller attached to the fan housing, for balancing purposes. Wall propeller fans shall be axial flow type, direct or belt driven, as scheduled, complete with OSHA inlet guard, wall sleeve, disconnect switch and gravity backdraft damper. Fan F-12 shall be provided with a two-speed motor. Fans shall be Cook, as scheduled, or equal Acme, Penn, or equal. Capacities shall be as scheduled on the drawings.

Gas fired tubular radiant heaters: Heaters shall be low intensity tubular type, with forced combustion burner system, aluminized steel radiant tub heat exchanger, and stainless steel reflector. Heaters shall be straight tube, or u-tube design, as scheduled. Provide accessory side baffles, where scheduled. Heaters shall be Combustion Research Corp. Omega II series, or approved equal. Provide each heater with a wall mounted thermostat.

Engine Exhaust Air Filtration Units: Filtration units shall be self contained, suspended fan/filter units complete with bottom inlet grille, pre-filter, high efficiency (MERV 16) stage two filter, gas-phase extractor, centrifugal blower and four side-mounted discharge grilles. Units shall be AirVac 911, or approved equal.

Electric Wall Heaters: Heaters shall be wall mounted, architectural style electric heaters, complete with painted steel housing, extruded aluminum face panel with inlet and outlet louvers, integral disconnect switch and integral thermostat. Heaters shall be Markel, as scheduled, or approved equal.

Range Exhaust Hood: Range hood shall be UL-710 listed, commercial, type 430 stainless steel hood, complete with front mounted make-up air plenum, integral rear air space, duct collars, backsplash panel, left and right sidesplash panels, UL listed light fixtures, hood mounted fan and light controls, baffle type grease filters and Ansul R-102 fire suppression system, (suppression system components housed in separate, wall mounted panel enclosure). Hood shall be Accurex, as scheduled, or approved equal.

AUTOMATIC CONTROLS

The intent of this section is to obtain a complete, functional control for all mechanical equipment, systems, and devices of the project. This Contractor is to furnish and install, as required, electric/electronic or pneumatic controls, all necessary components, control wiring, interlock wiring, contactors, relays, control transformers, alarms, control valves, etc., to achieve the desired control operation for the air conditioning systems.

Automatic Dampers: Automatic dampers shall be similar to Ruskin Model CD40. Automatic damper shall be factory-fabricated and sized, and provided by control manufacturer.

Sequence of Operation:

Each split system air conditioning unit (GF-1/Cu-1 through GF-4/CU-4) shall be controlled by a wall mounted seven-day programmable thermostat. When the system is in the occupied mode, the blower shall run continuously. In the unoccupied mode, the blowers shall cycle with the heating or cooling. The motorized outside air damper shall open whenever the unit is in the occupied mode and close whenever the unit is in the unoccupied mode.

Range hood make—up air furnace GF—5 shall be interlocked with the range hood exhaust fan (F—14) to run whenever the exhaust fan is running. A duct mounted thermostat, located in the outside air duct, shall energize the gas heating whenever the outdoor temperature drops below 40°F (adjustable).

Fans shall be controlled as indicated in the fan schedule.

manufacturer.

Engine exhaust air filtration units shall be controlled by a wall mounted "ON-OFF-AUTO" controller. In the off position, the units are de-energized. In the on position, units run continuously. In the auto position, units are started by either a push-button switch or by a signal from a wall mounted CO/NO2 gas detection system, both provided by the unit manufacturer.

Refrigerant piping shall be copper ASTM #B280, factory cleaned, nitrogen charged, and capped.

Liquid and suction refrigerant lines shall be sized per manufacturer's recommendations.

Diffusers, registers, and grilles shall be as scheduled on the drawings, Titus models noted, or equal.

Exact location of all ceiling-mounted diffusers, grilles, and registers to be coordinated with lighting layout and

## Mechanical Contractor shall retain the services of a gualified automatic controls contractor.

Control Wiring: Shall be #12 CU. THHN installed in EMT conduit (minimum 1/2-inch diameter) or plenum-rated

Electric wall heaters shall be controlled by integral thermostats.

Gas-fired radiant tube heaters shall be controlled by wall mounted thermostats provided by the heater

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architecture	
interiors	
town planning	
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DATE	COMMENTS
09.27.2018	BID SET / PERMIT SET

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1330 HWY. 92 NORTH FAYETTEVILLE. GEORGIA



COMMISSION NO: 1852.00

SHEET TITLE:

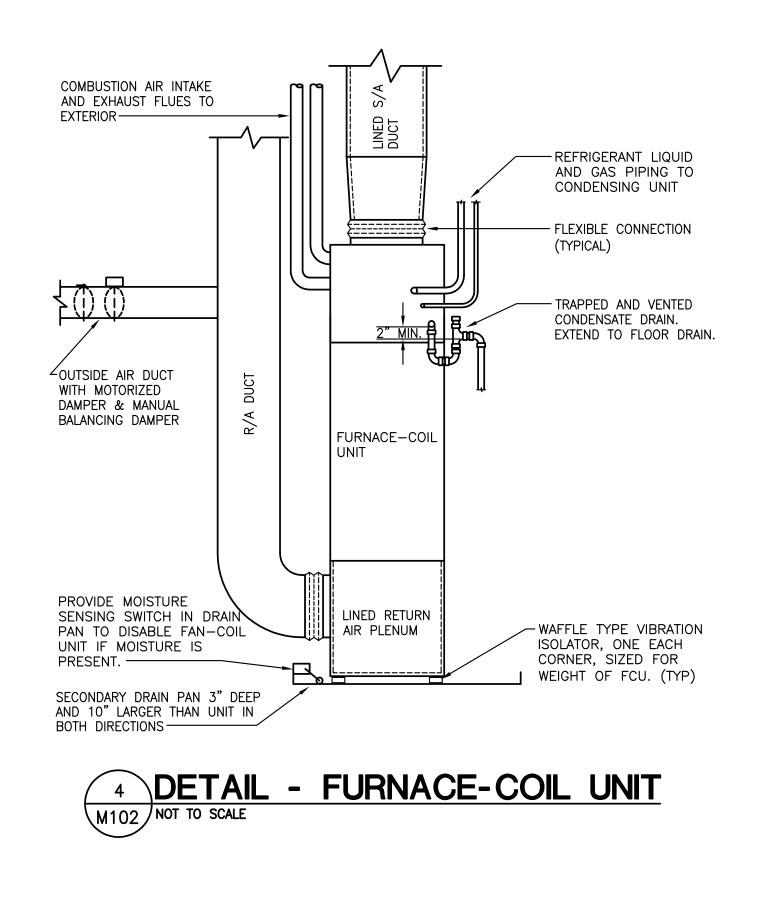
HVAC SPECIFICATIONS

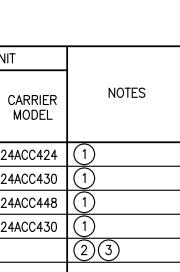
SHEET NO:

NOT ISSUED FOR CONSTRUCTION

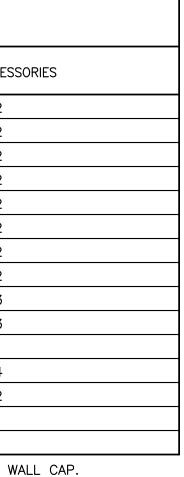
		INDOOR L	JNIT																					
	В	LOWER DA	TA	4		COOLING	DATA		HEATING DATA															
SYMBOL	SUPPLY CFM	O.A. CFM	E.S.P. IN. W.G.	MAX. HP	TOTAL MBH			T ⁺F WB	GAS HEAT INPUT (BTUH)	GAS HEAT OUTPUT (BTUH)	AFUE	CARRIER MODEL	SYMBOL	AMB. TEMP	SEER	CARF MOI								
GF-1	750	130	1.00	1/2	23.7	18.9	80	67	40,000	37,000	92.1	59SP2A040E17-12/CNPVP2417	CU-1	95 <b>'</b> F	14.0	24ACC								
GF-2	830	160	1.00	1/2	28.1	20.9	80	67	60,000	56,000	92.1	59SP2A060E17-14/CNPVP3017	CU-2	95 <b>'</b> F	14.5	24ACC								
GF-3	1400	260	1.00	3/4	44.8	31.5	80	67	80,000	75,000		59SP2A080E21-20/CNPVP4821	CU-3	95 <b>'</b> F	14.5	24ACC								
GF-4	880	160	1.00	1/2	28.1	20.9	80	67	60,000	56,000		59SP2A060E17-14/CNPVP3017	CU-4	95 <b>'</b> F	14.5	24ACC								
GF-5	450	450	0.80	1/2					40,000	37,000	92.1	59SP2A040E14-10												
									FA															
MARK	ARK SERVICE		TYPE	CFM	ESP IN W.C.	MAX. RPM	MAX. H.P.	DRIVE	MAX. SONES	CONTROLLED BY				OLLED MODEL		IROLLED MODEL			ACCESSOF					
	TOILET EXH		ING FAN	80	0.25	860	1/10	DIREC		WALL SWITCH		COOK GC-146	SEE	NOTES	1 &	2								
	TOILET EXH		ING FAN	80	0.25	860	1/10			WALL SWIT		COOK GC-146		NOTES										
	LAUNDRY E		ING FAN		0.25	1160	1/10									COOK GC-168		NOTES						
	TOILET EXH		ING FAN		0.25	860	1/10					COOK GC-146		NOTES										
	ICE MACH		_ING FAN _ING FAN	120 200	0.25 0.25	1070 1400	1/10 1/10							COOK GC-148 COOK GC-522		SEE NOTES 1 & 2 SEE NOTES 1 & 2								
	TOILET EXH		ING FAN	80	0.25	860	1/10					COOK GC-146		SEE NOTES 1 & 2										
	MECH RM		ING FAN	150	0.25	1150	1/10													COOK GC-168		NOTES		
	STORAGE V		L PROP	500	0.25	1090	, 1/4	DIREC	T 5.7	WALL SWIT		COOK 12XP26D17EC												
F-10	COMP RM	VENT WAL	L PROP	800	0.25	1470	1/4	DIREC	T 8.7	WALL SWIT	СН	COOK 12XP32D17EC	SEE	SEE NOTES 2 & 3		3								
F-11	(NOT USED	))																						
F-12	APP BAY V	ENT WAL	L PROP	8000	0.25	453	1.5	BELT	21.6	2-SPD SW	ітсн	COOK 42XLP	SEE	NOTES	3&	4								
F-13	JANITOR EX	KH CEIL	ING FAN	120	0.25	1070	1/10	DIREC	T 2.4	WALL SWIT	сн	COOK GC-148	SEE	NOTES	1 &	2								
F-14	RANGE EXH	H ROC	F CENT	500	0.90	1834	1/2	DIREC	T –	HOOD SWIT	сн	ACCUREX XRUD-101HP-VG	SEE	NOTE	5									
IOTE 1: IOTE 2: IOTE 3: IOTE 4:	PROVIDE PROVIDE PROVIDE PROVIDE	FAN WITH FAN WITH FAN WITH	H INLET 1 SPEED H INLET 1 TWO-S	GRILLE CONTF GUARE	, ACOU ROLLER ), WALL MOTOR	STICALL (MOUNT SLEEVE AND "O INECT S	Y LINE FED IN: E, DISC FF—HIC SWITCH,	D HOU SIDE M CONNEC GH-LOV ROOF	USING, DIS IOTOR HOU CT SWITCH W" WALL S CURB (5	CONNECT, JSING), FOF AND GRAV	OUTLE R BALA /ITY B,	T DUCT COLLAR WITH GF	RAVITY S	HUTTE	R AN									
MARK	SE	RVICE		TYPE		CFM A			BLOWER HP	ĸw	STEP	PS MODEL				REMAR								
EWH-1	MECH F	200M	WAI	L HEATI	-R	245		_	1/10	2.0	1	MARKEL 3420 SERIE	s wit	H INTE	GRAI									

MARK	SERVICE	TYPE	CFM	Δ P IN	BLOWER HP	KW	STEPS	MODEL	REMARKS
EWH-1	MECH ROOM	WALL HEATER	245	_	1/10	2.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT
EWH-2	STORAGE ROOM	WALL HEATER	245	-	1/10	3.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT
EWH-3	FIRE RISER ROOM	WALL HEATER	245	-	1/10	2.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT





## P. IS BELOW 40'F.







GAS FIRED INFRARED HEATERS									
SYMBOL	HEATER TYPE	INPUT BTUH	AFUE	REFLECTOR LENGTH	TUBE DIAMETER	FAN HP	COMBUSTION RESEARCH CORP. MODEL NUMBER	REMARKS	
GRH-1	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	1	
GRH-2	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	1	
GRH-3	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	1	
GRH-4	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	1	
GRH-5	GAS INFRARED TUBE HEATER	60,000	80%	14'-8"	4.0	1/8	OMEGA II 0918-NG-U		
GRH-6	GAS INFRARED TUBE HEATER	60,000	80%	14'-8"	4.0	1/8	OMEGA II 0918-NG-U		

(1) PROVIDE REFLECTOR WITH SINGLE SIDE SHIELD. MOUNT AT 30° ANGLE TOWARD CENTER OF BAY.

# ENGINE EXHAUST AIR FILTRATION UNITS

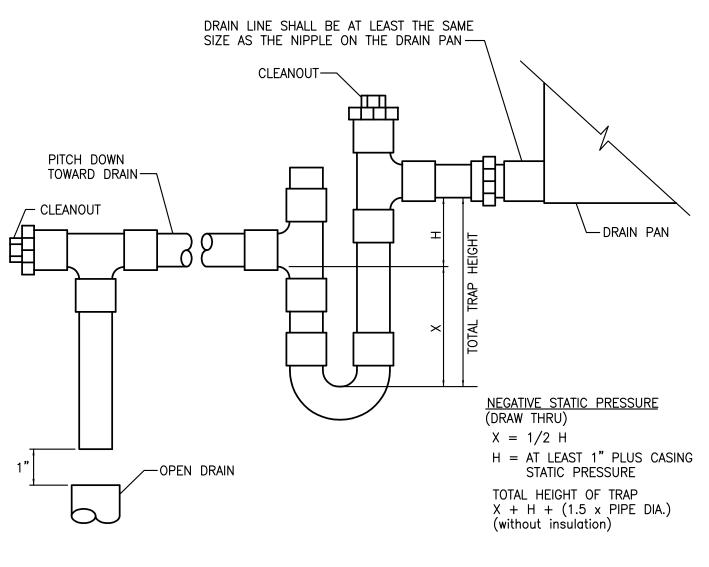
MARK	SERVICE	AIR FLOW CFM	MAX. H.P.	PREFILTER TYPE	MAIN FILTER TYPE	FINAL FILTER TYPE	MODEL	REM/
AFU-1	APPARATUS BAY	2000	1.0	THROW-AWAY	MERV 16 HEPA	GAS PHASE EXTRACTOR	AIRVAC 911	
AFU-2	APPARATUS BAY	2000	1.0	THROW-AWAY	MERV 16 HEPA	GAS PHASE EXTRACTOR	AIRVAC 911	(1)

(1) PROVIDE UNIT WITH AVEC-4C SMART TIMER, CO/NO2 COMBO SENSOR AND MANUAL PUSH-BUTTON OVERRIDE SWITCH.

SIDESPLASHES AND ANSUL R102 FIRE SUPPRESSION SYSTEM, MOUNTED ON ADJACENT WALL. HOOD SHALL BE UL710 LISTED.

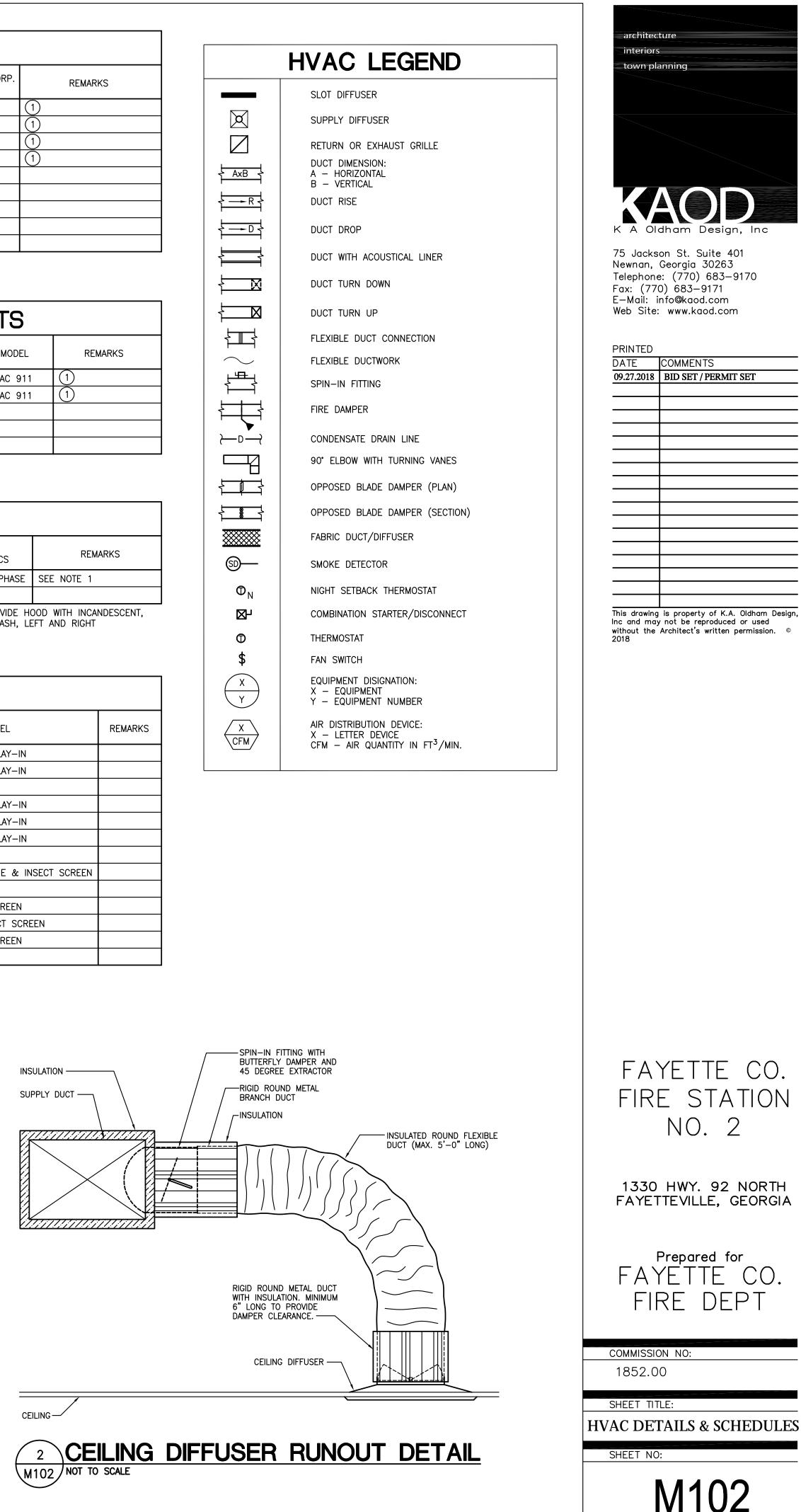
	KITCHEN HOODS											
SYMBOL	TYPE	DIMENSIONS	EXHAUST CFM	SUPPLY CFM	MODEL	ELECTRICAL CHARACTERISTICS	REMA					
KH-1	WALL MOUNT	3'-4" X 3'-3"	500	450	ACCUREX XBEW-40-S	120V, SINGLE PHASE	SEE NOTE 1					
					ESIGNED FOR MEDIUM COOK CLOSURE PANEL ON THREE							

	Α	IR DIS	STRIE	BUTION	I DEVICES
MARK	TYPE	NECK SIZE	OBD	FINISH	MODEL
A	LAY-IN CEILING DIFFUSER	6"ø	YES	OFF-WHITE	PRICE SCD, FRAME 31, 24X24 LAY-IN
В	LAY-IN CEILING DIFFUSER	8"ø	YES	OFF-WHITE	PRICE SCD, FRAME 31, 24X24 LAY-IN
С	(NOT USED)				
D	LAY-IN RETURN AIR GRILLE	8"ø	NO	OFF-WHITE	PRICE PDDR, FRAME 3, 12X24 LAY-IN
E	LAY-IN RETURN AIR GRILLE	12"ø	NO	OFF-WHITE	PRICE PDDR, FRAME 3, 24X24 LAY-IN
F	LAY-IN RETURN AIR GRILLE	18"ø	NO	OFF-WHITE	PRICE PDDR, FRAME 3, 24X24 LAY-IN
G	(NOT USED)				
Н	CEILING EXHAUST GRILLE	48X48	NO	OFF-WHITE	PRICE 82-F, WITH HINGED FRAME & INSECT SCREEN
J	SIDEWALL TRANSFER GRILLE	24X24	NO	OFF-WHITE	PRICE 530-F-L-A
К	OUTSIDE AIR INTAKE GRILLE	12X12	NO	OFF-WHITE	PRICE 81-F-A, WITH INSECT SCREEN
L	OUTSIDE AIR INTAKE REGISTER	16X16	YES	OFF-WHITE	PRICE 530D-F-L-A, WITH INSECT SCREEN
м	OUTSIDE AIR INTAKE GRILLE	18X18	NO	OFF-WHITE	PRICE 81-F-A, WITH INSECT SCREEN
N	OUTSIDE AIR INTAKE GRILLE	32X40	NO	OFF-WHITE	PRICE 510-F-L-A

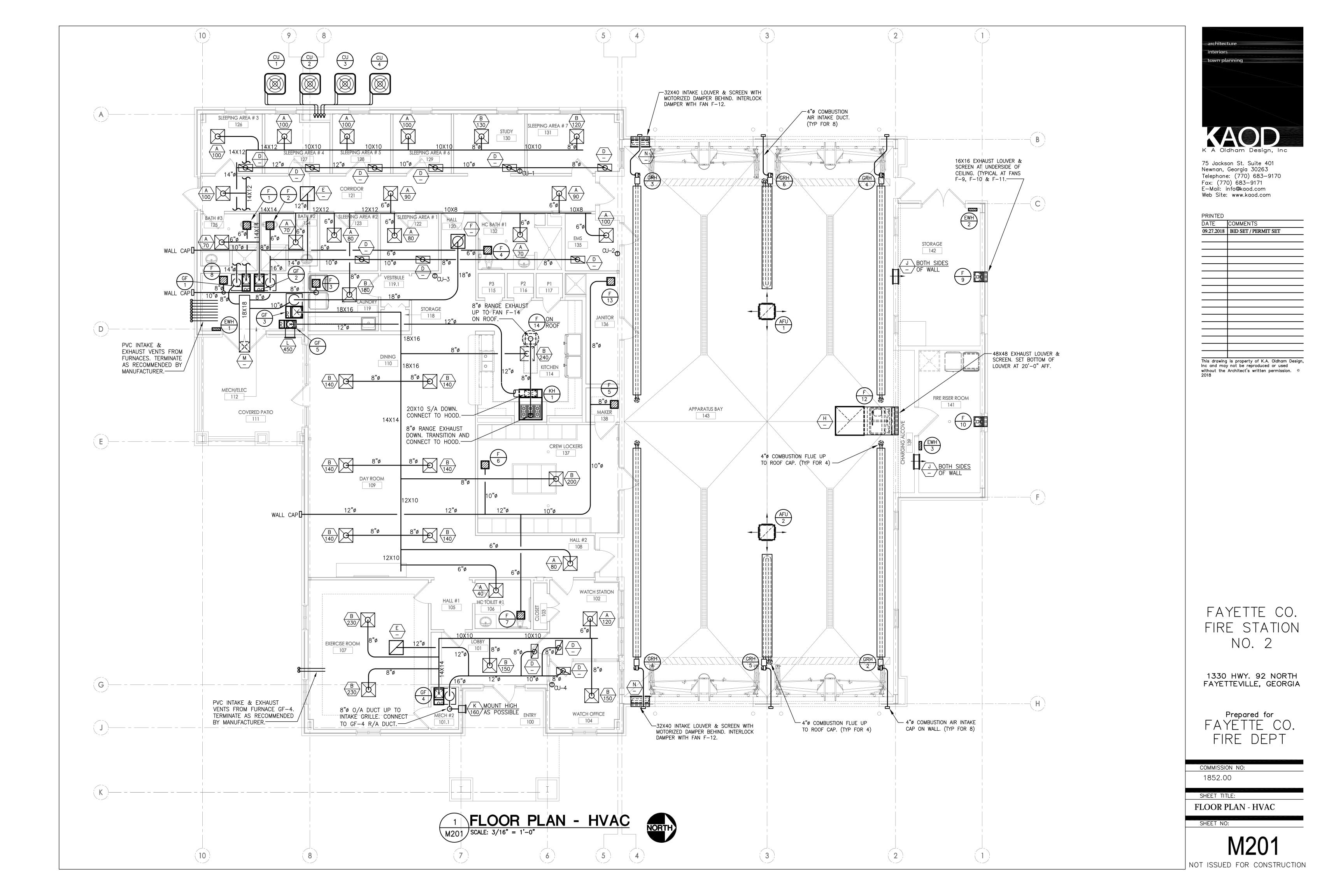


CEILING -

# 1 CONDENSATE DRAIN TRAP DETAIL M102 NOT TO SCALE



M102 NOT ISSUED FOR CONSTRUCTION



01	#	ELECTRICAL CRITERIA - GENERAL CONDITIONS PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. Submit Copy	Off
01	-	Of Each Permit	
EC-	-	LICENSE(S)-BUSINESS: This Contactor Shall Be Properly Licensed Business Wise, In This Project State, In Accordance With All Applicable State Laws. Submit Copies Of Business	
02		License(s).	
EC- 03	-	BONDING & INSURANCE(s): This Contactor Shall Be Properly Bonded And Insured In Accordance With The General & Supplements Requirement Of The Project Document.	
		Submit Copies Of All Such Documents.	
EC-		COORDINATION OF OTHER TRADES- This contractor is responsible for coordinating with all other trades for the proper installation of this work, maintaining required clearances, and	
04	-	confirming the electrical characteristics and requirement of electrical power equipment of	
		other trades (prior to ordering equipment). <u>Submit Copies</u> Of All Such Documents. MANUFACTURERS, ALTERNATES & SUBSTITUTIONS- Components & products are to be	
		provided matching the prescribed characteristics, features, performance, types, etc. based	
EC-		on the Manufacturer & Series as given. <u>NO After-"Bid" Alternates, Changes Or Substitutions</u> Accepted Or Allowed. Prior-To-Bid Request For Acceptance Must Be Submitted To Architect	
05	-	& Engineer NO-LESS Than Two-Business-Weeks Prior To Bid Date. Request-For-	
		Acceptance Must Include Complete & Marked Product Data Indicating Full Matching Compliance. Any Variations Must Be Marked & Noted. Acceptance Will Be At The	
		Description Of The A/E Judgment.	
EC- 06	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC-		WARRANTY- This contractor shall warrant all materials, labor & installation for one full year	
07	-	from date of Substantial Completion. Any extended product warranties shall be passed onto the owner.	
-	-	End Of Electrical Criteria - General Conditions	
#	Rv #	ELECTRICAL CRITERIA - BASICS CRITERIA	Cheo Off
EB- 01	-	GENERAL- Provide a complete electrical system, left in proper working order. Provide herein means installed completely, including labor & materials.	
EB-		LICENSE(S)-ELECTRICAL: This Contactor Shall Be Fully Licensed To Perform Electrical	
02		Work, In This Project State, For The Type Of Work To Be Performed In Accordance With All Applicable State Laws. <u>Submit Copies</u> Of Electrical License(s).	
EB-	_	CODES - Meet & comply with all prevailing Federal, State, County & City Codes Including	
03		NEC (NFPA-70); ICC-IBC & any Ga Amendments; ICC-IEC & any Ga Amendments.	
EB- 04	-	PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. <u>Submit Copy</u> Of Each Permit	
EB-		COORDINATION OF POWER UTILITY- Coordinate & verify, in writing, with the utility power company, confirming the electrical power arrangements, characteristics (Voltage, Phase,	
05	-	Transformer Type & KVA, Fault-Current, Etc.), metering arrangement and equipment	
EB-		locations. Copy Own/ Archt/ Engr. COORDINATION OF LV COMMUNICATIONS UTILITY- Coordinate & verify, in writing, with the	
06	-	LV Communications Utility Company, confirming the LV Com Service routing, conduit quantity & sizes, termination locations, and other related requirements.	
		PROVISIONS TO BE INCLUDED- Labor, supplies and materials, tools, equipment, etc.;	
EB- 07	-	installation of all electrical equipment & connections; coordination with other trades; material shipping, delivery, receiving, storage, & protection; excavation, backfilling, cutting, patching	
07		and cleaning; guarantee for one year, plus any extended manufacturer's warranties; as-built reproducible Mylar record documents.	
		MATERIALS- All materials shall be new, currently manufactured, U.L. labeled, and meet all	
EB-	-	industry standards. Label all equipment. Provide 3000 PSI class concrete for bases and backfill. Provide 3/4" thick A/D fire retardant grade backboards. Provide all support hardware	
08		and systems for electrical work. Fire/smoke seal each penetration of any rated barrier (floor,	
		wall, etc.). MOTORS & CONTROLS- Motors are furnished and installed under other specification	
EB- 09	-	sections. Control and interlock wiring is furnished and installed under other specification sections. Individually mounted starters are furnished under other sections, mounted and	
		power wiring connections provided under this section. ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual	
EB-	-	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label	
EB- 10	-	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.	
10 EB-	-	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the	
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10 EB- 11	-	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's	
10 EB- 11	- - -	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.         INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements.         End Of Electrical Criteria - Basic Materials & Methods         ELECTRICAL CRITERIA - BONDING & GROUNDING	Chec
10 EB- 11 - # EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods	Chec
10 EB- 11 - # EG- 01	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.         INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements.         End Of Electrical Criteria - Basic Materials & Methods         BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements	Chec
10 EB- 11 - # EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.         INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements.         End Of Electrical Criteria - Basic Materials & Methods         ELECTRICAL CRITERIA - BONDING & GROUNDING         BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements         GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems.	Chec
10 EB- 11 - EG- 01 EG- 02 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.         INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements.         End Of Electrical Criteria - Basic Materials & Methods         ELECTRICAL CRITERIA - BONDING & GROUNDING         BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements         GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire	Chec
10 EB- 11 <b>#</b> EG- 01 EG- 02 EG- 03	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping.	Chec
10 EB- 11 - EG- 01 EG- 02 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping.	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 04	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required.	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger -	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG- 06	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS:- #10 and smaller - solid copper THHN/THWN	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING (GROUNDING CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper fitting & devices. Compression type connections. BURNDY	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG- 06 EG- 07	1	ELECTRICAL CONNECTIONS- Provide power wining complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING in-GRADE CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & s - stranded copper THHN/THWN black jacket, #4 & larger - stranded copper THHN/THWN identified with Green Tape. CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG- 06 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NE C and these requirements. GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS: +110 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN identified with Green Tape. CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent.	Chec
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10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG- 07 EG- 07 EG- 07 EG- 07	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS: +10 and smaller - solid copper THHN/THWN Green Jacket Color; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN is to the green - tage. CONNECTIONS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination. GROUND RODS (ERITECH 68340	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 05 EG- 06 EG- 07 EG- 07 EG- 07	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN IN the set of the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIONS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIONS (COPPER- T	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG- 06 EG- 07 EG- 09 EG- 09 EG-	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BULDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - stranded copper THHN/THWN Identified with Green Tape. CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIORS, ICOPPER-Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination. GROUND RODS (ERITECH 683400 Rod): Provide 10 Foot Long, 0. 75 In Dia	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 03 EG- 06 EG- 07 EG- 07 EG- 08 EG- 07	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITALS- Provide competes submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN identified with Green Tape. CONNECTIONS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIONS (COPPER- Twist on type for #8 and smaller copper conductors. Set screwbolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination. GROUND RODS (ERITECH 683400 Rod): Provide 10 Foot Long,	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 03 EG- 05 EG- 06 EG- 07 EG- 08 EG- 09 EG- 10	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN identified with Green Tape. CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connectors. Set screwbolked type for #4 and larger copper conductors. Completely insulate each connection, splice, termination. GROUND RODS (ERTECH 683400 Rod): Provide 10 Foot Long, 0. 75 In Diameter, Tin-On-Copper 10 Mil. Plated Steel Pointed Ground Connector or Exothermic-Weld all ground cables to rods. GROUND ROD INSPECTION WELLS/ ERTECH Wells - Where indicated or req	Chec
10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 04 EG- 05 EG- 06 EG- 07 EG- 09 EG- 09 EG-	1	ELECTRICAL CONNECTIONS- Provide power wining complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements.  End Of Electrical Criteria - Basic Materials & Methods  ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fre-protection piping, gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & 8 - standed copper THHN/THWN black jacket, #4 & larger - stranded copper THHN/THWN identified with Green Tape. CONNECTIONS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper films devices. Compression type connections. BURNDY HYGROUND Series or Equivalent. CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination. GROUND ROD INSPECTION WELLS/ ERITECH We	Chec
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10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 03 EG- 06 EG- 07 EG- 07 EG- 09 EG- 10 EG- 10	1	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including burding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic system in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: #11 and smaller - solid copper THHNTHWN Green Jacket Color, #6 & a -stranded copper THHNTHWN black jacket; #4 & larger - stranded copper THHNTHWN identified with Green Tape. CONNECTIONS, COPPEER. Twist on type for #8 and smaller copper conductors. Set screwbolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination. GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide Ground Rod, if verv into earth with top 18 inches below finished grade with inspection/ test well cover, top flush with grade. ANSI/UL-467 & ANSI/ NEMA-GR1. Mechanical Direct-Burial Ground Connector or Exothermic-Weld all ground cables to rots. GROUND ROD	Chec
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10 EB- 11 EG- 01 EG- 02 EG- 03 EG- 03 EG- 06 EG- 07 EG- 07 EG- 09 EG- 10 EG- 10 EG- 10	1	ELECTRICAL CONNECTIONS- Provide power wining complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings. INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds), related codes and the manufacturer's published requirements. End Of Electrical Criteria - Basic Materials & Methods ELECTRICAL CRITERIA - BONDING & GROUNDING BENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL EXQUERENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, .HVAC system piping. SUBMITTALS- Provide compute submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GOUDUCTORS: #10 and smaller - solid copper THHN/THWN Green Jacket Color, #6 & a -stranded copper THHN/THWN black jacket, #4 & larger - stranded copper THHN/THWN identified with Green Tape. CONNECTIONS, OPPER- Twist on type for #4 and larger coper conductors. Completely insulate each connection, splice, termination. GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide and great with inspection/ test well cover, top flush with grade. ANSI/UL-467 & ANSI/ NEMA-GRUND Back is perferent and consection splice, termination. GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide ables	Chec

#	Rv #	ELECTRICAL CRITERIA - CONDUITS, BOXES & FITTINGS
ER-		GENERAL- All wiring for power and systems shall done in accordance with the applicable
01	-	codes. All materials shall be U.L. labeled, matched for proper applications and installed in accordance with U.L. & manufacturer's requirements.
ER- 02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to I used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.
ER-		GENERAL UNDERGROUND- All underground, in-slab, exterior and exposed or surface
03	-	mounted wiring shall be in conduits, unless otherwise directed.
ER- 04	-	GENERAL CONCEALED- All wiring shall be concealed where possible (i. eabove ceilings, in walls, in slabs, or underground).
ER-	-	GENERAL EXPOSED- Exposed conduits shall be routed as high as possible and paralle
05		or perpendicular to structural elements. GENERAL BOXES- Provide boxes for all connections, devices, system, etc. Coordinate
ER- 06	-	box sizes with structure to which it will be secured. Coordinate the exact final box location with the architectural/interior drawings prior to rough-in of box.
ER-	-	CONDUITS, IMC- conduit & fittings shall be utilized for exterior exposed locations and inter
07		exposed locations subject to damage. CONDUITS, EMT- EMT conduit & fittings shall be utilized for in slabs not on grade,
ER- 08	-	concealed dry interior locations, interior exposed locations above 10'0" A. F. F.with set screw fittings indoor concealed dry locations and compression raintight fittings in slabs, an
00		damp locations.
ER- 09	-	CONDUITS, PVC- conduit & fittings shall be utilized in slabs on grade, conduits in earth. P
09		fittings, boxes, etc. shall be of same manufacture with solvent bond. Depth per code.
ER-		CONDUITS, FLEXIBLE- Flexible metallic conduit & fittings shall be utilized where motion or vibrations are encountered. Liquid-tight type flex shall be used in damp or wet locations, (
10	-	e outdoors, kitchens, areas subject to wash down, shops & industrial areas, etc. ).
		Provide ground wire in all flex. CONDUIT MISC. FITTINGS- Conduit expansion/deflection fittings shall be utilized where
ER-		crossing expansion joints, floating slabs or isolated slabs. Conduit thru wall seals shall be
11	-	utilized where crossing between interior/exterior or damp locations. Conduit fire seals shall be utilized where passing thru fire rated construction, U. L. fire and smoke seal to maintair
		the fire rating of the barrier.
		CONDUIT BOXES- Utilize interior stamped steel for indoors dry flush mounted devices. Masonry/tile for indoors dry flush mounted devices. Concrete boxes for flush mounting in
ER- 12	-	poured concrete. Cast metal boxes for surface mounted devices, or damp/wet locations.
		Junction & pull boxes as required or needed. Galvanized steel wire-ways with hinged from cover, only permitted where noted.
ER-		FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PVC base with brass flip-
13	-	covers. Gang qty to match application & conduit entries., Covers to match device types. Hubbell, Steel City or Wiremold
ER-	-	SIESMIC BRACING & SUPPORT- All work shall be anchored, braced & supported in
14		accordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Na
ER- 15	-	Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.
-	-	End Of Electrical Criteria - Conduits, Boxes & Fittings
#	Rv #	ELECTRICAL CRITERIA - LOW VOLTAGE CONDUCTORS
EC-	#	CONDUCTORS GENERAL: Provide conductors for all circuiting, wiring and systems.
01	-	
EC- 02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to l used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.
		CONDUCTORS COLOR CODED: Each conductor shall be properly color coded to represe
EC- 03	-	it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 shall have continuous color-coded jacket. Larger wire sizes shall have colored tape at each termination, pull-bo>
		etc.
EC- 04	-	CONDUCTOR LABELING: Each circuit labeled on the conductor and at each box.
EC-		CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN color coded; #6 & 8 -
05	-	stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN. N
EC-		conductors less than #12 Cu allowed, unless specifically noted or control wiring. CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless noted. Where noted,
06	-	conductors shall be compact strand type, THHN/ THWN.
EC-	-	CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on type for #8 and smaller copper conductors. Set-Screw, Bolted or Compression type for #4 and larger copper
07		conductors. Completely insulate each connection, splice, termination.
EC-	-	CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compression, split-bolt, or set- screw type(s),for Aluminum or Dual-Rated. Completely insulate each connection, splice,
08		termination.
EC- 09	-	CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type connector for damp & we locations, sealant filled type. IDEAL Model 66 or Equal
EC-	-	CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WATER-TIGHT- UL Listed
10		486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible.
EC- 11	-	GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE- UL 467 Liste 90C rated, Compress Or Bolt Type With Inhibiting compound; For Use In Earth or Concrete
		METAL-CLAD (MC) CABLE (CONCEALED WIRING)- Contractor may utilize Metal-Clad (Typ
EC-	-	MC) for interior concealed branch circuit wiring in accordance with the code. All materials, fittings, hardware, etc. shall be U.L. labeled for use with MC cable and properly installed a
12		supported. Type MC cable shall have an integral full length ground conductor, bonded to
		ground lug or terminal at each end. INSTALLATION STANDARDS: All wiring & connects shall be installed in accordance with th

 C-<sup>1</sup> INSTALLATION STANDARDS: All wiring & connects shall be installed in accordance with the stallation State of the stallation state of the stallation state.), NEC & related codes and the manufacturer's published requirements.

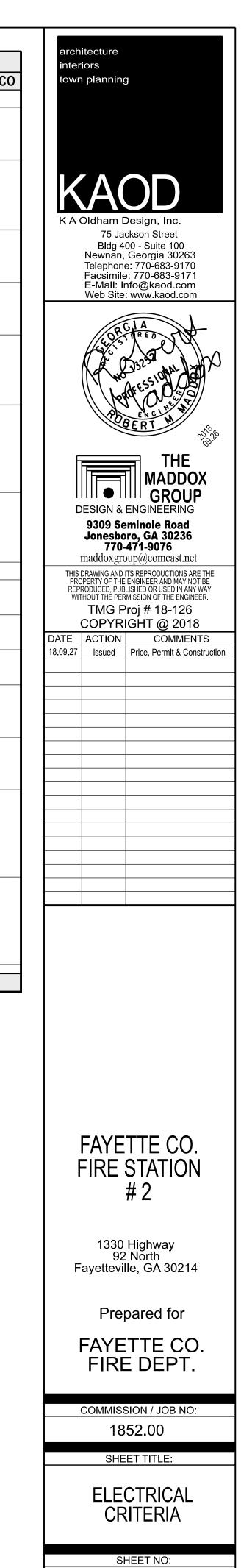
End Of Electrical Criteria - Low Voltage Conductors

	Chk Off	#	Rv #	ELECTRICAL CRITERIA - LOW VOLT. ELECT. DISTRIB. GEAR	Ch Of
ə in		ED- 01	-	GENERAL ITEMS GENERAL- Provide Low-Voltage Electrical Distribution Gear as required to provide for a complete system to distribute electrical power.	
be		ED- 02	-	ELECTRICAL RATINGS- Prior to ordering or submitting any electrical distribution equipment,	
•		U2 ED-		verify all equipment ratings (Voltages, Phase, Short-Circuit With-Stand & Interrupting Ratings). EQUIPM. DIMENSIONS, CLEARANCES & ACCESS: Prior to ordering or submitting any	
		03	-	electrical distribution equipment, verify dimensions, space requirements, clearances, access and interference with work of other trades.	
el		ED- 04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
te on		ED-	_	LABELING & INSTALLATION EQUIPMENT LABELS: Provide Engraved Melamine Equipment Labels, Adhesive Attached To The Items Face Or Interior Cover. Label To Include Equipment Name, Voltage(s) And	
erior		10 ED-		OCP Device Ratings If Applicable. SAFETY & WARNING LABELS: Provide Clear & Legible Safety & Warning Labels On Each	
and		11	-	Item Of Electrical Distribution Gear As Required By The NEC, OSHA & Other Regulations. ARC-FLASH LABELS: Provide Clear & Legible Arc-Flash Labels On Each Item Of Electrical	
PVC		ED- 12	-	Distribution Gear, Giving The Minimum Ratings, Arc-Flash Energy Level & Required PPE For Each Specific Location.	
		ED- 13	-	SIESMIC BRACING & SUPPORT- Equipment shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements.	
or , (i.		ED- 14	-	INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
		ED-		LOW VOLTAGE OVER-CURRENT PROTECTIVE DEVICES           OCP GENERAL- Provide over-current-protective (O.C.P.) devices as required by code	-
e all		21		and/or otherwise prescribed. All lugs and terminals 60/75 deg. C rated. MOLDED CASE (MC) CIRCUIT BREAKERS- Thermal-magnetic, bolt-in, quick-make/quick-	
ain		ED- 22		break type. Trip free operation with ON, OFF & TRIPPED position. Monolithic tie-handle common trip and common reset multi-pole breakers. Trip rating molded on handle or face. Lugs to match cable type terminations. Single pole 15 and 20 ampere breakers to be	
n 3.				"SWITCHING" rated. DISCONNECT REQUIRMENTS - NEMA 1 enclosure indcors, NEMA 3R for damp/wet	
ont o-lid		ED- 23		locations. Voltage, poles, amperage, fusible as required. Equipped with both isolated neutral and ground lugs. Class H, J, R or T fuse with rejection features. Provide switch label.	
		ED- 24		DISCONNECTS 30AMP. – 200AMP (240V Max) - Labeled per UL #98. NEMA KS1 general duty type, load make/break rated. Interrupting rating of 100,000 RMS amps (with R/ T fuse).	
Nat.		ED- 25		DISCONNECTS 400 & 600 AMPERES - Labeled per UL #98. NEMA KS-1 heavy duty type, load make/break rated. Interrupting rating of 200,000 RMS amps (with fuse).	
		ED-		DISCONNECT OVER 600 AMPERES- Labeled per Ulf #977, bolted pressure or high pressure contact type. NEMA heavy duty type, load make/break rated. Accept Class L	
		26		fuses (as required). Interrupting rating of 200,000 RMS (with fusing). Manual close - manual/electric trip open. Load side phase under voltage detection/trip. Zero sequence	
	Obb			GFCI on switches 1000A @ 277 and greater. FUSES- Fuses shall be of same make, manufacturer, type & rating where providing two or	
	Chk Off	ED- 27		three wire O.C.P. at a device. Provide Busman LOW-PEAK KRP-C. fuses (U.L. 198 C Class L) for protection over 600 amperes. Provide Busman LOW-PEAK LPN-RK (250V) or LPS-RK (600V) (U.L. 198E Class RK1) for protection up to 600 amperes.	
b be				PANELBOARDS PANELBOARDS GENERAL- Provide dead front design with hinged & locking front cover door, NEMA 1 cabinet unless otherwise noted and with devices as scheduled. Voltage,	
sent		ED- 30		phase, ampacity and devices as scheduled. Service entrance rated as applicable. Series rated and labeled, unless indicated otherwise. Flush or surface mounted NEMA 1 enclosure.	
эх,		ED-		All lugs & terminals 60/75 deg. C rated. PANELBOARD STANDARDS- Labeled UL 67 and 50 (Cabinets, Boxes & Trim); NEMA 250	
		31		and PB1; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1.	
No		ED- 32		SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy	
		ED-		Level & protective requirements (PPE). PANELBOARD INTERIOR- Factory assembled, double row construction. Staggered numbering, sequence phased. Tin-plated copper or aluminum busing. Full ampacity phase	
r		33		& neutral bus, 50% ground bus. OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other	
		ED- 34		components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria.	
et-		ED- 35		PANEL DIRECTORIES - All Panel Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A)	
<i>i</i> et	<u></u>	ED-		SWITCHBOARDS SWITCHBOARDS GENERAL- Provide equipment with dead front design and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as	
d		40		applicable. Free-Standing, NEMA 1 enclosure unless otherwise required. All lugs & terminals 60/75 deg. C rated.	
sted, te.		ED- 41		SWITCHBOARD STANDARDS- The equipment and all installed components shall be UL Listed & Labeled. Labeled UL 891; NEMA 250 and PB2; NFPA 70-384 and 373; Federal	
pe		ED-		Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1. SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short	
, and o a		42		Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE). SWITCHBOARD INTERIOR- Factory preassembled, sequence phased. Tin-plated copper or	
the		ED- 43		aluminum busing unless otherwise noted. Full ampacity phase & neutral bus, 50% ground bus.	
		ED-		OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details.	
	New York	44 ED-		Refer to Over-Current Protective (OCP) devices criteria. CIRCUIT DIRECTORIES - All Circuit Directories Shall Be Current, Fully Detailed & Legible Per	
		45		NEC-110.22 & 408.4(A) TRANSFORMERS TRANSFORMERS GENERAL- Provide dead-front dry-type transformer. Labeled per UL	
				#506, conform with NEMA #250, #ST20 and TR27. General purpose air-cooled dry-type construction. Size, capacity, primary and secondary voltage, as indicated. NEMA 1	
		ED- 50		enclosure for indoor dry locations, NEMA 3R enclosure for damp/wet locations. Dead-front construction with removable covers. Maximum temperature rise by resistance of 115	
				degrees C. in a 40 degrees C. ambient. 75 degrees C. maximum terminal compartment with 60/75 degree C. lugs to match the conductor types. Two 2-1/2% above normal and four 2-1/2% below normal full capacity winding taps.	
		-		End Of Electrical Criteria - Low Voltage Electrical Distribution Gear	

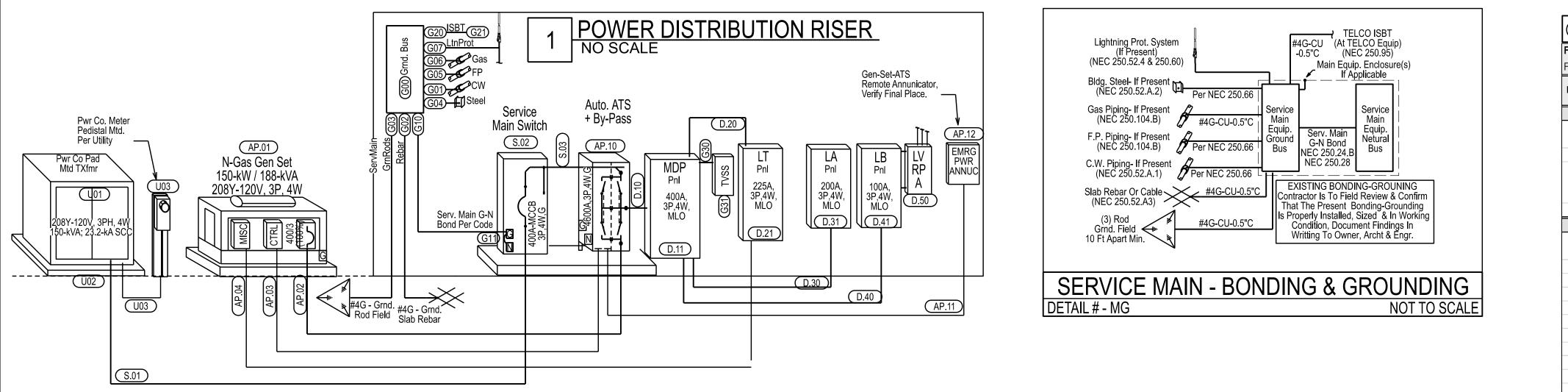
#	Rv #	ELECTRICAL CRITERIA - LIGHTING FIXTURES	Ch Of
EL-		GENERAL- Provide a complete system of lighting, including but not limited to, lighting	
01	-	fixtures, lamps, lighting controls, hardware, support and related wiring. The lighting system	
		shall be installed complete & left in proper operation & function. PRE_SUBMITTAL COORDINATION - Prior to issuing product submittals and / or ordering this	
		contractor shall review & coordinate the specific construction each fixture is to be installed in,	
EL-		any Fire-Ratings, fixture mounting & support, & attachment methods, & ballast voltages.	
02	-	Dimmed fixtures shall be coordinated with their respective dimmer controls for comp ability.	
		Fixtures that are to be fitted to Architectural features (i.ecoves, slots, etc.) shall be	
		coordinated with the respective trades prior to submitting.	
		SUBMITTALS - Prepare & submit project specific product documentation, including but not	
EL-	-	limited to , fixture cut-sheets with all model numbers, features & option indicated; specific	
03		lamps type(s). Custom type fixtures shall include the manufacturers shop fabrication	
		drawings. CODES & REQUIRMENTS- Each fixture shall be U.L. Labeled. Comply with the requirement	-
EL-	_	of the NEC. Installation shall comply with the N.E.I.S. Emergency Lighting & Egress Signage	
04		shall comply with NFPA-101.	
EL-	_	ENERGY EFFICENCY CODES- Each fixture shall conform with energy code requirements.	
05	-		
		MANUFACTURERS SERIES- The Lighting Fixture Schedule describes the fixture type,	
EL-		features, lamp(s), and other characteristics that is to be provided. The Manufacturer's Model	
06	-	Number are provided as a reference to the grade, quality, features & components required. It is the responsibility of this Contractor to verify with the Manufacturer the actual final correct	
		fixture make & model number required and to be submitted.	
EL-		MANUFACTURER(S) BASIS - The projects base quote shall be based on the prescribed	$\vdash$
07	-	Manufacturer(s) as identified in the Lighting Fixture Schedule.	
		ALTERNATE MANUFACTURER(S) - Alternate Manufacturer(s) products may be proposed as	
EL-		Add / Deduct Alternate to the Original Base Bid (Post Bid Proposals Not Accepted). The	
08	-	alternate proposal shall be supported with complete fixture and lamp data / cut-sheets with	
		the specific model, features & characteristics indicated. Any variation from the Lighting Fixture Schedule shall be noted / indicated.	
EL-		LAMPS- Lamps shall be a scheduled & Full Light Output, Energy Saving. Lamps shall be by	-
09	-	General Electric, Philips, or Osram /Sylvania unless otherwise noted.	
EL-		LAMPS COLOR & CRI- Lamps, unless otherwise noted, shall be a 30k-35k Color and CRI of	$\square$
10	-	80+ for Fluorescents & 90+ for LEDs.	
EL-	_	LED LAMPS- Shall be UL Labeled (#8750 & 1598c), tested & performance rated per ANSI/	
11		ANSLG, CIE, FTC, FCC, IES (LM-79, LM-80 & Related), NEMA	
EL-		LINEAR FLUORESCENT BALLAST- Shall be rated & matched to the specific lamp type(s) it	
12	-	serves, High Power Factor, Full Light Output, Energy Saving Electronic Type. Ballast shall be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.	
			-
EL-		COMPACT FLUORESCENT LAMP (CFL) BALLAST- Shall be rated & matched to the specific	
13		lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Electronic Type. Ballast shall be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.	
EL-		HIGH INTENSTIY DISCHARG (HID) BALLAST- Shall be rated & matched to the specific lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Type. Ballast shall be	
14		Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.	
_,			-
EL- 15		DIMMING BALLAST & CONTROLS- Provide fixtures with dimming type ballast as prescribed.	
15		The Ballast & Controls shall be fully coordinate & matched for proper system operation.	
_,		EBIS (EMERGENCY BATTERY/ INVERTERS SYSTEMS) FOR FLUORESCENT LAMPS-	
EL- 16		Provide Battery/ Inverter units where shown or required for emergency egress lighting in	
10		accordance with NFPA-101 & NEC. 90 Minute operation (min.) unless otherwise noted. U.L. Listed & Labeled.	
		EBIS FEATURES- EBIS units shall be Self-Diagnostic, Automatic Testing with Audio & Visual	$\vdash$
EL-		alarm notification of trouble conditions. If the above feature is not available, provide Manual	
17		Test Switch w/ Indicator Lamp.	
EL-		EBIS TEST FEATURES- units shall be Self-Diagnostic, Automatic Testing with Audio & Visual	
18		alarm notification of trouble conditions.	
EL-		EBIS LINEAR LAMP PERFROMANCE - The EBIS shall provide the following minimum	
19		Lumen outputs. 48 lnch, 14-32 Watt lamps @ 1100-1400 Lumens. 48 lnch T5 20-55 Watt @ 1800-3000 Lumens	
		EBIS CFL LAMP PERFROMANCE - The EBIS shall provide the following minimum Lumen	-
EL-		outputs. CFL 09-13 Watt, 2-Piin @ 350-650 Lumens. CFL 13-26 Watt, 2-Pin @ 500-950	
20		Lumens; CFL 09-42 Watt 4-Pin @ 1100-1400 Lumens.	
		FIXTURE MOUNTING & SUPPORT- Each fixture shall be supported from the ceiling structure	
EL-		(verify ceiling structural capacity) or directly from building structure. Secure fixture to ceiling	
21		structure in accordance with code. Pendant supported fixtures shall be supported from	
-,			
EL-		SIESMIC BRACING & SUPPORT- Fixtures shall be braced & supported in accordance with	
22		he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat.	
EL-		Electrical Installation Stds.), NEC & related codes and the manufacturer's published	
23		requirements.	
1			1
-		End Of Electrical Criteria - Lighting Fixtures	

#	Rv #	ELECTRICAL CRITERIA - TELCO V/D/B RACEWAYS	Chk Off
ET- 01	-	TELCO RACEWAY SCOPE-OF-WORK: Providing raceways, backboards and wall boxes with conduit stub-ups & pull-strings only for devices, cabling & equipment installation by others (Telco, Voice, Data, Broadband, Etc.)	
ET- 02	-	TELCO DEVICES, CABLING & EQUIPMENT: All cabling, jacks, devices, hardware, equipment & software & related installation is the responsibility of the owner or tenant.	
ET- 03	-	TELCO UTILITY COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.	
ET- 04	-	TELCO SYSTEM PROVIDER COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.	
ET- 05	-	TELCO SERVICE CONDUITS: Quanity & size as required or shown, use long radius bends (10X) on all raceway bends & turns. Install Pull-Strings, tagged & tied-off at each end.	
ET- 06	-	TELCO- V/D BACKBOARDS: 3/ 4" Thick A/D Grade fire-retardant plywood, painted with two coats of fire-retardant grey paint, bottom 18 In AFF, secured to wall structure. Provide 4-Hole ground lug with #6 ground extended to main service ground & bonded.	
ET- 07	-	V/D WALL BACKBOXES & STUB-UPS: Provide double gang wall boxes with plaster ring with 1" C. stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.	
ET- 08	-	V/D WALL FLOOR BOXES & STUB-UPS: Provide flush-in-floor box(s) with 1" C. under floor, to a wall & stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.	
_	-	End Of Electrical Criteria - TELCO V/D/B Raceways	

10.03	9.27	Fayette Co Fire Station 02	
DN-	Rv	ELECTRICAL DISCLAIMERS & PROJECT NOTES	CO
01	-	CONSTRUCTION NEW> This Project Is All New Work.	
		UTILITY POWER> Utility Power Is To Be Field Verified &	
02	_	Documented By The Contractor Prior To The Start Of Any	
02		Work. Confirm Voltages, Phase, & Available Fault Current.	
		GENERATOR POWER SYSTEM> The Generator Power	
03	-	System Being Installed For This Facility Is Classified As An:	
		OPTIONAL STANDBY SYSTEM (i.eNon-Life-Safety	
_		Functions Per NFPA-101).	
		EMERGENCY EGRESS & EXIT LIGHTING Is Provided Via	
04	-	Battery Backup Units. Refer To The Lighting Fixture Schedule.	
		LIGHTING - Refer To The Architectural-Interiors (A/I) For The	
05	-	Complete Lighting Design (Ceiling Types & Layouts, Fixture	
		Selections & Lamping, Mounting Heights, Etc.)	
		EQUIPMENT VERIFICATION - Contractor Is To Verify The	
00		Electrical Characteristics & Ratings Of Electrical Equipment	
06		Provided By Other Trades, Etc. Prior To Ordering Materials &	
		Any Rough-Ins.	
		EQUIPMENT ON GEN. PWR SYSTEM: - Contractor Is To	
		Coordinate Early With Other Trades, Owner, Etc. Regarding	
06	_	The Electrical Characteristics, Ratings & Motor Starter Types Of	
00			
		Electrical Equipment Provided By Other Trades, Etc. To Ensure	
_		Proper Generator Operation.	
		GEN. PWR SYSTEM LOAD SEQUENCE STARTING: Selected	
07		Loads Are Noted As Delayed Restart Or Delayed Start To	
		Avoid All Loads Being Connecte To The Generator Source At	
		The Same Time.	
08		FIRE ALARM - Not Included In This Work-Scope.	
09	_	TELCO-VOICE-DATA SYSTEM(s)- Not Included In This Work-	
00		Scope.	
10	_	TV-BROADBAND SYSTEM(s)- Not Included In This Work-	
10	-	Scope.	
44		ACCESS CONTROL & SECURITY- Not Included In This Work-	
11	-	Scope.	
		OWNER-TENANT-USER RESPONSIBILITIES- To Review &	
12	-	Train In Proper Operations & Maintenance Of The Electrical	
		Components & System.	
-		OWNER-TENANT-USER RESPONSIBILITIESy- Regularly	
13	_	Test (Every 3 Months) GFCI & AFCI Devices To Ensure	
10		Proper Operation.	
		OWNER-TENANT-USER RESPONSIBILITIES- To Regularly	
		Check, Test & Document The Proper Operation Of The	
4.4			
14		Emergency Lighting System. Refer To NFPA-101 & OSHA	
		Regulations. Documentation & Forms Are Available From NFPA	
		& OSHA	
		GENERATOR POWER SYSTEM MAINTEANCE> The Owner	
		Is Responsible For The Maintaining The Generator Power	
15	-	System In Proper Working Order And Conducting &	
		Documenting Regular Operational Testing Per Codes & Other	
		Agency Requirments.	
1		· · · · · · · · · · · · · · · · · · ·	



E-0.1 RELEASED FOR PERMIT OR CONSTRUCTION



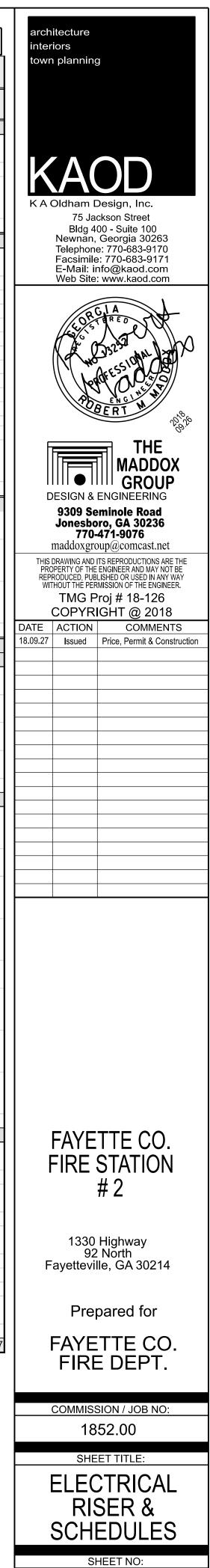
Proje	ect:	Fayette Co Fire	e Station 02					Μ	DP		Schd	Fayetteville, GA. 30241 City,St								
Gen	Nt 1:	Bkr Ties On Multi-Wire Ck	ts NEC 210.4B					Volt	- LL	208		En	closure-Mtg:	NEN	ИА 1	Wall Surf Mtd.				
Gen	Nt 2:	Seismic Certified & Seismic	Rated Anchors & S	upport	s Reqd.			Volt-	LN	120		Cover & Door: Doo			por-In-Door, With Locks					
Gen	Nt 3:	Main Distb Panel						Phs.	3	W.	4		OCP Types:	Mair	n - MCCB-60C/75C	Branch- MCCB, 60C/75C	Lugs	į		
Gen	Nt 4:						E	Buss A	mps	600			All Busing:	CU	or AL	100% N & G Busing				
	Nt 5:							Main C					Arc-Flash:	Lab	eled Per NEC & OSH	A				
18-1	127	MADDOX GROUP INC.			Spare % =	15%	KA	-AIC S	SCA	42			18.09.27	Date	9:	Const	Statu	ls		
Rv	Nt	Description	Wiring	ID	W/VA	OCP	Ρ	#	Ρ	#	OCP	Ρ	W/VA	ID	Wiring	Description	Nt	Rv		
		Pnl LA Fdr		Р	17,756	150	-	01	Α	02	225	-	14,920	Ρ		Pnl LT Fdr				
		208V, 3Ph, 4W, G	See Riser	Р	16,914	-	-	03	В	04	-	-	17,520	Ρ	See Riser	208V, 3Ph, 4W, G				
				Р	17,938	-	3	05	С	06	-	3	12,320	Ρ						
		Pnl LB Fdr		Р	8,505	100	-	07	Α	08	50	-	2,905	Μ	See Connect Data	Air-Compr Gen Use	1,2			
		208V, 3Ph, 4W, G	See Riser	Ρ	7,835	-	-	09	В	10	-	-	2,905	Μ	= = =	7.5 HP-208V-3Phs				
				Р	7,470	-	3	11	С	12	-	3	2,905	Μ	= = =	Schultz 7580VV30X-3				
		< Space Only >			0	SP	-	13	Α	14	40	-	0			TVSS Surge Prot				
		< Space Only >			0	-	-	15	В	16	-	-	0		4# 8+ 8G-MC	208V, 3Ph, 4W, G				
		< Space Only >			0	-	3	17	С	18	-	3	0							
		< Space Only >			0	SP	-	19	Α	20	SP	-	0			< Space Only >				
		< Space Only >			0	-	-	21	В	22	-	-	0			< Space Only >				
		< Space Only >			0	-	3	23	С	24	-	3	0			< Space Only >				
		< Space Only >			0	Sp	1	25	Α	26	20	1	0			< Space Only >				
		< Space Only >			0	Sp	1	27	В	28	20	1	0			< Space Only >				
		< Space Only >			0	Sp	1	29	С	30	20	1	0			< Space Only >				
Vt# (	01-	HACR Listed & Labeled N	ICCB			Phs	-A =	33.9	9 %	367	Α		44,086	VA	8.7	KVA Facotred End Use	24	1 A		
V <i>t</i> # (	02-	Verify Soft-Start & Time De	elay On Power Loss	Resta	rt	Phs	-B =	34.8	3 %	376	А		45,174	VA	123.7	KVA Pass Thru Load	343	A		
Nt# (	03-	NotUsed				Phs	-C =	31.3	3 %	338	А		40,633	VA	1.3	KVA Spare	4	I A		
Nt#(	04-	NotUsed				S	umm	ary =		361	Α		129,893	V۵	133.7	KVA Total	371	Α		

			ELECT	RICAL UTIL	LITY & LOAD DATA	
Proj:	Fayette Co Fire Station	02		Ow ner :	Fayette Co Fire Dept	
Street	1330 Hwy 92 N			Contact :	Capt. Scarboro	
City	Fayetteville, GA. 30241			Phone # :		
GSF:	8,136	18.09.27	-Date	Status-	Const	
			ELECTR	RICAL LOAD	DATA & SUMMARY	
Load	Connected	Conn	ected @	100%	Descriptions,	Rv
ID	Load Type	kVA	%	W/SF	Comments & Notes	#
-	Exist. Demand	0.00	0%	0.00	Not Applicable - New Project	-
L	Lighting	9.61	7%	1.18	Interior & Exterior With Occupancy Switches	-
R	General Rcpts.	27.70	21%	3.40	General Use Receptacles	-
Α	Appliances	20.10	15%	2.47	Residental Kitchen & Laundry Appliances	-
Е	Electronics, PCs, Etc.	11.20	9%	1.38	Small UPS, Voice-Data-TV Equipment	-
Н	HVAC- Mtrs	14.49	11%	1.78	HVAC- Fans, Blowers, & Similar	-
С	HVAC-Refrig	11.55	9%	1.42	HVAC- Cooling Equipment, HPUs, CUs, Etc.	-
G	HVAC- Heating	13.00	10%	1.60	HVAC- Space Heating & Related (Non-Simult With Refg)	-
М	Misc- M	8.72	7%	1.07	Air Comprs> 7.5 HP	-
Т	Misc- T	13.53	10%	1.66	Misc Motors > OH Doors, Etc.	-
	Spare	0.00	0%	0.00	-	-
	Summary kVA >	130	100%	16.0	<w sf="" sum<="" td=""><td></td></w>	
Su	pply Characteristics	Amps 100% >	361		General Comments	
208	Volts-LL		1-	N-Gas> Ma	jor Cooking Appliances	
120	Volts-LN		2-	N-Gas>HV	AC Space Heating (Gas Furnaces)	
3	Phase-1/3		3-			
4	Wire #		4-			
400 A	mps/ 1 Sets> 4# 500-Cl	J or 750-AL	5-	Back-Up Ge	enerator Set With Automatic Open-Transfer Switch.	
	Pro	efered Power	Co. Serv	vice, Transfo	ormer & Metering - Verify With Utility	
	Tfmr. kVA	Pwr Company	•	Cowetta-F	ayette EMC	
		Pwr. Co. Con	tact:	Curtis Can	np, 770-252-7241	
	Secd.3P-Bolted kA SCCA	Pwr Co. Prima	ary:	Under Gro	und Primary; Provided By Power Co. (Verify)	
		PwrCo. TXfm	r:		sformer By Power Co. (Verify)	
	Secd. Phs-Grn kA SCCA	Pwr Co. Mete	ring:		td Mtr; Pedistal & 1.5"C Conduit By Contractor (Verify)	
12-101	MADDOX GROUP INC.	1		1	End Of Utility Load Data	

#	Rv #	ELECTRICAL CRITERIA - PROJECT CLOSE-0UT	Chk Off
EZ-		REVIEW REQUEST NOTICE(s)- This Contractor Shall Notify, In Writing, At Least 10 Days In	
01	-	Advance, To Own/ Archt/ Engr, Of The Desired Date To Request Having An On-Site Review	
01		Performed.	
EZ-	_	AHJ INSPECTION REPORTS- This Contractor Shall Submitt Copy(s) Of Each Inspection	
02		Report As Given By The Authority Having Jurisdiction (AHJ) To The Own/ Archt/ Engr.	
EZ-	-	ROUGH IN REVIEWS - Request Rough-In Reivew(s) Before Any Mateiral Or Work Is	
03		Covered And Unobservable.	
EZ-	-	CERTIFICATIONS & TEST REPORTS- Provide Copies Of All Required Certifications And Test	
04		Results Prior To Requesting Final Review.	
EZ-	-	CONTRACTOR REVIEW- This Contractor Shall Throughly Review & Document That The	
05		Complete Work Is Properly Functioning & Opeating Prior To Requesting A Final Review.	
EZ-	-	REVIEW ELECTRICAL BONDING & GROUNDS- Veirfy Each Service Ground & Bond Is	
06		Properly Installed, Connected & Labled.	
EZ-	-	REVIEW ELECTRICAL SERVICE & VOLTAGE- Test & Record The Actual Voltages (L-L, L-	
07		N,L-G, N-G) And Amperages Of Each Line, Netural & Ground At The Service Entrance	
EZ-		REVIEW ELECTRICAL DISTRIBUTION- Review & Document Each Part of The Electrical	
08	-	Distribution System. Verify Proper Size & Ratings Of Each Item, Proper Connections &	
		Torque Values. Verify Proper Bonding & Grounding. REVIEW ELECTRICAL PANEL DIRECTORIES - Review & Verify Detial Panel Directories Are	
EZ-		Complete, Correct & Installed. Provide Complete "As-Built" Panel Schesule, In PDF Format	
09	-	To Owner For Their Records.	
EZ-		REVIEW ELECTRICAL EQUIPMENT WIRING- Review Each Equipment Connection, Verify	
10	-	Circuit Protection Complies With The Equipment UL Listings & Ratings. Verify Disconnects	
10		Are Properly Labeled. Check For Proper Voltage & Phase Rotation For Equipment.	
		REVIEW ELECTRICAL WIRING & DEVICES- Review & Document That All Branch Circuit	
EZ-		Wiring Is Properly Installed, Bonded & Operational. Test Each Outlet With For Proper	
11	-	Contunity, Polarity & Grounding. Test Using An IDEAL INDUSTRIES SURE-TEST Model 61-	
		165 Or Equal.	
<b>F</b> 7		REVIEW ELECTRICAL LIGHTING & CONTROLS- Review & Document That All LIGHTING	
EZ-	-	Fixtures Are Properly Operating And Clean. Verify Proper Operation Of All Lighting Controls.	
12		Program & Set An Control Operations And/ Or Schedules Per Owner.	
		REVIEW ELECTRICAL EMERGENCY EGRESS LIGHTNG & EXIT SIGNS:- Review &	
EZ-	_	Document That Each Emergency Lighting Fixture And / Or System And Each Exit Sign Is	
13		Properly Functioning. Turn Off Building / Suite Power For 90 Minutes And Verify Emergency	
		Lighting & Exit Are Operational Per Code.	
EZ-	-	REVIEW ELECTRICAL SUB-SYSTEMS- Refer To The Specific Requirments Of Each "Sub-	
14		Systems" (i.eFire Alalrm, Data-Voice, Etc.).	
EZ-	-	KEYS & SPARE PARTS- Label & Turn Over All Keys To Owner's Personell. Review & Show	
16		All Spare Components & Parts To Owner's Personell & Document With Transmittal.	
EZ-		"AS_BUILTS" - Provide Copies, In Hard-Copy & PDF Format, Of The Field Recored	
17	-	Documents With All "As-Built" Field Documentation Reflecting The Final Installed Conditions.	
		Copy To Own/ Archt/ Engr.	
EZ-		WARRANTY- This contractor shall warrant all materials, labor & installation for one full year	
18	-	from date of Certificate of Occupancy. Any extended product warranties shall be passed	
		onto the owner. INSTRUCTIONS & TRAINING:- Schedule & Provide A Instructional & Traning Session With	
EZ-		The Owner's Designated Personell. Review The Project Manual, Perform A "Walk-Thru"	
20	-	Review Of The All Electrical System(s) And Their Proper Operation, Including Resetting Of	
20			
		Breaker & Replacment Of Fuses. PROJECT MANUAL(S)- Provide Both A Bound "Hard-Copy" & PDF Version To The Owner &	
		PDF Copy To The Archt/ Engr. The Project Manual Shall Include The Contractors Contact	
EZ-		Information, Permits, Copies Of All "As-Builts", Product Submittal Data, Copies Of All	
21		Inspection Reports, Certifications & Test Results. Include All Mainteance Data, Instructions, &	
		Warranty Information.	
EZ-		FINAL REVIEWS - Request A Final Reivew Once All Work & Systems Are Completed,	
22		Checked And In Proper Operation	
-			

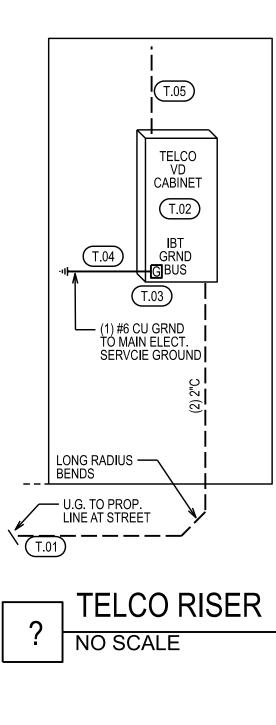
End Of Electrical Criteia - Project Close-Out

Bale A. 2024/*         ELECTRICAL DISTRICTION SYSTEM         United State         Joint State		Co Fi	POW re Station 02		BUTION SCHEDULE		Q	<b>XXX</b> 18.0	<b>)</b>	
BID         Density of Label         Vote Place Num         Wing USA, Carlos, Carlos, Place, Place, Place, Vote, Place, Num, Vote, Num,										
Uppel         Uke Co. Transform / Pag         2004 (2014) APA / Verify 43 0000 / Verify 43 00000 / Verify 43 00000 / Verify 43 00000 / Verify 43 00000 / Verify 40 000000 / Verify 40 00000 / Verify 40 0000 / Verify 40 00000	T	ag ID#	Description / Label	Volts/ Phase/ Wires	Wiring (#Sets,Cu/Al), Ratings, Size, Etc.				Feet	
Unit         Judges - Type         NM         NM         NM           U00         Units Construct         Centratic Provide - Scheller, Construct, New York UD, & Provide - Angeler, Construct, New York UD, & Provide - Angeler, Construct, New York UD, & Provide - Angeler, Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, & Provide - Tope - Construct, New York UD, New Yo				Elec	trical Utility Source			,	1	
UKU         Transforme Pace         Structural Corces Pace         Verity (N. Lifty & Provide A in Sequel)         ·         NA		U01		208Y-120V,3P,4W	Verify - 150 kVA		23.2	Per Util	-	
UIU         UIU <td></td> <td>U02</td> <td></td> <td>Structural Concrete Pad</td> <td>Verify With Utility &amp; Provide As Required</td> <td></td> <td>NA</td> <td>NA</td> <td>-</td>		U02		Structural Concrete Pad	Verify With Utility & Provide As Required		NA	NA	-	
Trenthere to The Automatic Learnership Area Law (************************************		1103	Utility Co. Meter				NΔ	NΔ		
Service Browing & Growening (Each Service)           Colspan="2">Service Service)           Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"           Colspan="2">Colspan="2"           Colspan="2"               Colspan="2" <th cols<="" td=""><td></td><td>000</td><td></td><td>From Meter ⊺o Txfmr.</td><td>Wiring &amp; Related Transformer Connects By Pwr Co.</td><td></td><td></td><td></td><td></td></th>	<td></td> <td>000</td> <td></td> <td>From Meter ⊺o Txfmr.</td> <td>Wiring &amp; Related Transformer Connects By Pwr Co.</td> <td></td> <td></td> <td></td> <td></td>		000		From Meter ⊺o Txfmr.	Wiring & Related Transformer Connects By Pwr Co.				
Open Maske Gend Bas (M68)         Concerd Bas (Mr B)         Term Cables (Mr B) Cable Cable (Mr B) Addition (Mr D) Cable Cable (Mr B) Addition (Mr D) Cable (Mr		-		 Service Bondin		-	-		-	
Brackbane Ta C/W Mater         Dir Wall Mit and Dir Wall Mi		C00	Master Gred Rus (MGR)							
202         Com-T-S Siak Relative         (1) F44G - PPOC         201 F102 CD Relation (1) F44G - F10C         -			, , , , , , , , , , , , , , , , , , ,						-	
C20.         BoxCord- To Fig Seel         (1) #300-TPVC         ULL Brand To May Seel Memore		G01 G02		( )	· · ·				-	
CADE         DevalCend To PC Man         (1) #20G 'PPC         Cham Whith PC PC OPE Entrance		G03		( )					-	
D207         BondTon: To Lighthing Perr         (1) #30G-1FP4C         Bond To LightPerr         ····         ····         ····         ····         ····         ····         ····         ····         ····         ····         ····         ·····         ·····         ·····         ····         ····         ····         ····         ·····         ·······        ······         ·····		G04 G05	<u> </u>	( )	-				-	
All         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< td=""><td></td><td>G06</td><td>•</td><td>( )</td><td>· · ·</td><td></td><td></td><td></td><td>-</td></thcontr<></thcontrol<></thcontrol<>		G06	•	( )	· · ·				-	
Hain Bearding Jumper (GAD)         (1)         #2061-17         Umptod Inside Eath Sav Disc         ****        ****         ****       <		GU7	Bona/Grna- To Lignining Prol	(1)#3/0G-1PVC	Bond To Ligh Prot (If Present)				-	
C20         Bord-To Telob DRFT         (1) #726-11PVC         Ord To Each IV Comm Serve(a)   <		G10		( )						
BBT (inter System Bonding Learning) Ground Bar         L SOC PET Or Equal         Dual-Radid. 8 Hole Lig Whit 2 Mig Holes   <									-	
Call         Terminal Geound Bar         LSUC PE 0 CBUB         LUBR REE, 8-noc Lug vinit 2 wing holes         Image: Second		G20		(1) #2G- 1"PVC	Grnd To Each LV Comm Service(s)				-	
Image: Second		G21		ILSOC PET Or Equal	Dual-Rated, 8-Hole Lug With 2-Mtg Holes				-	
G30         TVSS Connection: NEC 280.25         (1) 47 4+4G 1.20°C         Keep Wiring Leads Very Short         ··<         ··<         ··<						_	-		_	
TVSS Unit - Muurt, Clease As (S31         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Bealable To Protechol Item/ Equipment         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Bealable To Protechol Item/ Equipment         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Bealable To Protechol Item/ Equipment         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Bealable To Protechol Item/ Equipment         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Bealable To Protechol Item/ Equipment         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Bealable To Protechol Item/ Equipment         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Explorement         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Explorement         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Explorement         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Explorement         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Explorement Amn Mode: EMN RFI Filer, Explorement         C-Class, 250 KA/ Phis 125KA/ Mode: EMN RFI Filer, Explorement Amn Mode: EMN RFI Filer, F		-		TVSS	6 (Surge Protection)	-				
G31         Prosube To Produced Item/ Support         208Y-120V,3P,4WQ         Disconnect, Aarm & Means, NEAA-3R, LEA LS Plus               G31         Prosible To Produced Item/ Equipment         480Y-27/V,3P,4WQ         Disconnect, Aarm & Means, NEAA-3R, LEA LS Plus  -		G30	TVSS Connection; NEC 280.25	(1) 4# 4+ 4G- 1.25"C	Keep Wiring Leads Very Short				-	
G31         Probable To Produced Item/ Equipment         208Y-120V.3P.4V/G         Disconcex, Nama, Meders, NEMA 3R: LEA LS PLus			TVSS Unit - Mount. Close As							
TVSS Unit. Mount. Close Ac         Collass. 250 kM Pris. (25% Mode): EMM RFI Filter, Equipment         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Collass. 250 kM Pris. (25% Mode): EMM SRI LEAL S Filter         Coll M S Filter         Col		G31	Possible To Protected Item /	208Y-120V,3P,4W,G	Disconnect, Alarm & Meters, NEMA-3R; LEA LS Plus				-	
G31         Possible To Produced Item/ Equipment         480Y-277V.3P.4W.G         Disconnect, Alarn & Metriss, NEIMA.3R; LEA LS Plus  <			· ·							
All Conductors Ars Copper (Gu) Unless Specifically Noted As Aluminum (Al) (Compact Strand)           Electrical Service/ Main Serv > 208Y 1207/3P.4W.G           801         Edect. Service> Main Serv > 208Y 1207/3P.4W.G         (1Gu) 4# 500-4.00°C gr (1Al) 4# 750-4.00°C         -		G31	Possible To Protected Item /	480Y-277V,3P,4W,G	Disconnect, Alarm & Meters, NEMA-3R; LEA LS Plus				-	
Electrical Service(s)           S01         Elect. Service>Main Serv > 400 Arps         208Y-120V;3P.4W(G         (1Cu) 4# 500-4.00°C or (1A) 4# 750-4.00°C		-	Equipment		Series	_	-	-	-	
Soll         Elect. Service> Man Servi> 400 Arps         208Y-120V.3P.4W/G         (10u) 4# 500-4.00°C         -          StattStatStat <th< td=""><td></td><td></td><td>All Conducto</td><td></td><td></td><td></td><td>1</td><td>1</td><td></td></th<>			All Conducto				1	1		
SNI         400 Arps         2087-120V.3P.4W.G         (10.0) 48 500-4.00°C or (14) 47 50-4.00°C			Elect. Service> Main Serv >							
SU1         Disc.> 400 Amps         200Y120V_3P_4WG         Endosure, Wall Mid: 208Y-120V 3P_4WG         ···		S01	400 Amps	208Y-120V,3P,4W,G	· · · · · · · · · · · · · · · · · · ·				-	
S03         Fdr To ATS-Norm - 400 Amps         208Y-120V.3P.4W(G         (1Cu) 4# 500+ 30G-4.00°C gr (1Al) 4# 750+ 4/0G-4.00°C gr (1Al) 4# 7		S01		208Y-120V,3P,4W,G					-	
S04         House Keeping Pad         na         Provide House-Keeping Pad For Floor Mounted Items. Secured Equipment Per Seismic Requirements		S03	· · · · ·	208Y-120V 3P 4W G	(1Cu) 4# 500+ 3/0G- 4.00"C or (1Al) 4# 750+ 4/0G-				_	
Number Network         House Network         Number N		000	· · · · · · · · · · · · · · · · · · ·	2001 1200,01 ,400,0						
Generator System Electrical Distribution           AP.01         N-Gas Gen Set 150-kW, 188- kVA         208Y-120V,3P,4W,G 52 F LA,400A-100% Oulput MCCB         See Detailed Criteria. Coordinate Structural Pad, Access Pad, Fending & Probetion Wh GC		S04	House Keeping Pad	na					-	
AP.01         N-Gas Gen Set 150-KW, 188- KVA         208Y-120V.3P.4W,G CUPU MCCB         See Detailed Criteria. Coordinate Structural Pad, Access Pad, Fending & Protection With GC		-		Generator Sv	 /stem Electrical Distribution	-	-	-	-	
AP-01         KVA         S21 FLA, 4004-100% Output MCCB         Access Pad, Fencing & Protection With GC			N-Gas Gen Set 150-kW 188-	208Y-120V,3P,4W,G;						
AP.02         Feed Gen Set To ATS         208Y-120V,3P,4W,G         (1Cu) 4# 500+ 3.00°C or (1Al) 4# 750+ 4/0G- 4.00°C		AP.01							-	
AP.03         Gen Set Control Wring         Per Manuf         Prior To Any Rough-Ins, Verify Per Manufacture Cabling Requirements & Conduit Size (1.25°C Minimum)         ···		AP.02	Feed Gen Set To ATS	•					_	
Prior         Gen Set Control Wiring         Per Manuf         Cabling Requirements & Conduit Size (1.25°C Mininum)         ···				,						
AP.04         Ges Set Misc Power (Jacket Hr, Charger, EL:.)         208Y-120V.3P.4W.G         Prior To Any Rough-Ins, Verify Per Manufacture Cabling Wring (3# 6+10G) & Conduit Size (1.25°C Minimum)   <		AP.03	Gen Set Control Wiring	Per Manuf					-	
App.od         Cease Set Miss Power (Jacket Htr, Charger, Etc.)         208Y-120V,3P,4W,G         Cabing Wiring (3# 6+10G) & Conduit Size (1.25°C Minimum)  <										
Minimum         Manual		AP.04		208Y-120V,3P,4W,G					-	
AP.00         Ceen set Groundang         Grind         Bonded Together & Grounded (3/0 Cu-Min)         Image: Construct of Const					,					
Automatic Transfer Switch (ATS); 400A, 3P, SN, By-Pass $208Y-120V, 3P, 4W, C;400A-100%Provide House-Keeping Pad If Floor Mounted. SecuredPer seismic RequirementsAP.11Remote Annunicator, VerifyLocation Prior To Rough-In.Per ManufSee Detailed Criteria; Verify Location Prior To Rough-In.See Detailed Criteria; Verify Location Prior To Rough-In<$		AP.05	Gen Set Grounding	Grnd					-	
AP.11Remote Annunicator WiringPer ManufPer dual Cabling Requirements			Automatic Transfer Switch	208Y-120V,3P,4W,G;	See Detailed Criteria; Coordinate Structural Mounting,					
AP.11Remote Annunicator Wiring Remote Annunicator, Verify Location Prior To Rough-In.Per ManufPrior To Any Rough-Ins, Verify Per Manufacture Cabling Requirements & Conduit Size (1.25°C Minimum); Verify With Location Prior To Rough-In		Ar.10	(ATS); 400A, 3P, SN, By-Pass	400A-100%					-	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			Domoto Annunissia INC	Des Marris	Prior To Any Rough-Ins, Verify Per Manufacture					
AP.12Remote Annunicator, Verify Location Prior To Rough-In.Per ManufSee Detailed Criteria; Verify Location Prior To Rough- Ins, Wall Mounted. Secured Per seismic Requirements $\cdots$ <th< td=""><td></td><td>AF.11</td><td>Remote Annunicator Wiring</td><td></td><td></td><td></td><td></td><td></td><td>-</td></th<>		AF.11	Remote Annunicator Wiring						-	
AP.12       Location Prior To Rough-In.       Per Manuf       Ins, Wall Mounted. Secured Per seismic Requirements       Image: Instruct of the seismic			Remote Annunicator, Verify	DerManuf						
Electrical Distribution           D.10         MDP Fdr > 400 Amps         208Y-120V,3P,4W,G         (1Cu) 4# 500+ 3/0G- 4.00"C or (1Al) 4# 750+ 4/0G- 4.00"C <th< td=""><td></td><td>AF.12</td><td></td><td>rer wanut</td><td></td><td></td><td></td><td></td><td>-</td></th<>		AF.12		rer wanut					-	
D.10MDP Fdr > 400 Amps $208Y-120V,3P,4W,G$ $(1Cu) 4\# 500+ 3/0G- 4.00"C or (1Al) 4\# 750+ 4/0G- 4.00"C\cdots$		-				-	-	-	-	
D.10       MDP Fdr > 400 Amps       208Y-120V,3P,4W,G       A.OU"C <td></td> <td>D 40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		D 40								
D.20       LT Fdr > 225 Amps       208Y-120V,3P,4W,G       (1Cu) 4# 4/0+ 4G- 2.50"C or (1Al) 4# 300+ 2G- 3.00"C <th< td=""><td></td><td></td><td>•</td><td></td><td>4.00"C</td><td></td><td></td><td></td><td>-</td></th<>			•		4.00"C				-	
D.21       LT       208Y-120V,3P,4W,G       See Schedule									-	
D.30LA Fdr > 200 Amps208Y-120V,3P,4W,G(1Cu) 4# 3/0+ 6G- 2.00"C or (1Al) 4# 250+ 4G- 2.50"C			·						-	
D.31       LA       208Y-120V,3P,4W,G       See Schedule	_	D.21							-	
D.40       LB Fdr > 100 Amps       208Y-120V,3P,4W,G       (1Cu) 4# 3+ 8G- 1.25"C or (1Al) 4# 1+ 6G- 1.25"C		D.30			. , ,				-	
D.41LB208Y-120V,3P,4W,GSee SchedleD.41Low-Voltage Relay PnI- A (LVRP-A)208Y-120V,3P,4W,GSee Schedule; Extend LV Wiring (MC Cable) To LV Switches		D.31 D.40							-	
D.41     (LVRP-A)     208Y-120V,3P,4W,G     Switches	-	D.40 D.41	LB		See Schedle				-	
		D.41	• •	208Y-120V,3P,4W,G					-	
DX GR End Of Distribution Schedule - Utility Power 18-127		-	(LVNF-A)			_	-	-	-	
	D	OX GR		End Of Distrib	ution Schedule - Utility Power				18-127	



E-02 RELEASED FOR PERMIT OR CONSTRUCTION

Proje	ect:	Fayette Co Fire	e Station 02					Ľ	Т		Schd				Fayettev	ille, GA. 30241	City,	,S
Gen	Nt 1:	Bkr Ties On Multi-Wire Ck	Is NEC 210.4B					Volt-	LL	208		Enc	closure-Mtg:	NEN	/A 1	Wall Surf Mtd.	-	_
Gen	Nt 2:	Seismic Certified & Seismic	Rated Anchors & Su	ppor	ts Regd.			Volt-	LN	120		Co	over & Door:	Doo	r-In-Door, With Locks			
		Serves Truck Bays & Rela			•			Phs.	3	W.	4	(	OCP Types:	Mair	n - MCCB-60C/75C	Branch- MCCB, 60C/75C	Lugs	s
Gen	Nt 4:						E	Buss An	nps	225			All Busing:			100% N & G Busing		_
	Nt 5:							Main O	ĊР	MLO			-		eled Per NEC & OSH	A		
18-	127	MADDOX GROUP INC.			Spare % =	0%	κ.	AIC S	СА	42			18.09.27	Date	9:	Const	Stat	u
Rv	Nt	Description	Wiring	ID	W/VA	OCP	Ρ	#	Ρ	#	OCP	Р	W/VA	ID	Wiring	Description	Nt	
		< Space Only >			0	Sp	1	01	Α	02	20	-	1,500	G	See Connect Data	M.EWH.02	1	٦
		< Space Only >			0	Sp	1	03	В	04	-	2	1,500	G	= = =	3.0 kW, 208V, 1Phs		
		< Space Only >			0	Sp	1	05	С	06	20	-	1,000		See Connect Data	M.EWH.03	1	
		< Space Only >			0	Sp	1	07	Α	08	-	2	1,000		= = =	2.0 kW, 208V, 1Phs		
		< Space Only >			0	Sp	1	09	В	10	20	-	1,500		See Connect Data	M.EWH.04	1	
		< Space Only >			0	Sp	1	11	C	12		2	1,500		= = =	3.0 kW, 208V, 1Phs		
	1	M.AFU.01	See Connect Data	Н	555	20	-	13	A	14	20	1	900	E	See Connect Data	Fir Prot Cntrl Pnl	1	-
	1	1.0 HP, 208V, 3Phs Ea		H	555	-	-	15	В	16	20	1	700	H	See Connect Data	M.F.09, 0.25 HP	1	-
		AirVac 911	= = =	H	555		3			18	20	1	700		See Connect Data	M.F.10, 0.25 HP	1	_
	4					-	3	17	C				-	H		,	· ·	_
	1	M.AFU.02	See Connect Data	H	555	20	-	19	A	20	20	1	700		See Connect Data	M.F.11, 0.25 HP	1	
		1.0 HP, 208V, 3Phs Ea	= = =	H	555	-	-	21	B	22	20	1	1,600		See Connect Data	M.GRH.xx Htr & Louver	1	_
		AirVac 911	= = =	H	555	-	3	23	C	24	20	1	1,600		See Connect Data	M.GRH.xx Htr & Louver	1	
	1	M.F.02	See Connect Data	H	900	20	-	25	A	26	20	1	1,600		See Connect Data	Truck Pwr Reel		
		2.0 HP, 208V, 3Phs Ea	= = =	Н	900	-	-	27	В	28	20	1	1,600	Е	See Connect Data	Truck Pwr Reel		
		Ex Fan	= = =	Т	900	-	3	29	С	30	Sp	1	0			< Space Only >		
	1	Doors 4-Fold Truck Bay	See Connect Data	Т	1,105	20	-	31	Α	32	Sp	1	0			< Space Only >		
		208V, 3Phs Ea	= = =	Т	1,105	-	-	33	В	34	20	1	1,600	Е	See Connect Data	Truck Pwr Reel		
		1.0 HP Each Of 2	= = =	Т	1,105	-	3	35	С	36	20	1	1,600	Е	See Connect Data	Truck Pwr Reel		
	1	Doors 4-Fold Truck Bay	See Connect Data	Т	1,105	20	-	37	Α	38	20	1	1,000	R	2# 10+ 10G- MC	Rcpts- Truck Bay Extr		
		208V, 3Phs Ea	= = =	Т	1,105	-	-	39	В	40	20	1	1,000	R	2# 10+ 10G- MC	Rcpts- Truck Bay Extr		
		1.0 HP Each Of 2	= = =	Т	1,105	-	3	41	С	42	20	1	800	R	2# 10+ 10G- MC	Rcpts- Truck Bay Intr		
		Gen Set Block Htg	2# 8+10G-1.25"C	Т	3,000	40	-	43	A	44	20	1	1,000		2# 10+ 10G- MC	Rcpts- Truck Bay Intr		
		208V, 1Phs		Т	3,000		2	45	В	46	20	1	800	R	2# 10+ 10G- MC	Rcpts- Truck Bay Intr		
		> Spare MCCB <			0	20	1	47	C	48	20	1	900	R	2# 10+ 10G- MC	Rcpts- Truck Bay Wtr Ft		
		< Space Only >			0	Sp		49	A	50	Sp	1	0			< Space Only >		-
		< Space Only >			0	Sp		51	В	52	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	53	C	54	Sp		0			< Space Only >		-
		< Space Only >			0	Sp	1	55	A	56	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	57	B	58	Sp	1	0			< Space Only >		
		< Space Only >			0		1	59		60			0			< Space Only >		
		1			-	Sp	1		C		Sp	1				1 5		
		< Space Only >			0	Sp		61	A	62	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	63	B	64 66	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	65	C	66	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	67	A	68 70	Sp	1	0			< Space Only >		_
		< Space Only >			0	Sp	1	69	В	70	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	71	С	72	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	73	A	74	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	75	В	76	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	77	С	78	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	79	Α	80	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	81	В	82	Sp	1	0			< Space Only >		_
		< Space Only >			0	Sp	1	83	С	84	Sp	1	0			< Space Only >		_
					0	na	-	Sub	A	Sub	na	-	0					
		Not Used			0	-	-	Feed	В	Feed	-	-	0			Not Used		
					0	-	3	Load	С	Load	-	3	0					
#	01-	HACR Listed & Labeled N	ICCB		•		-A =	33.3		124	А		14,920	VA	47.3	KVA Facotred End Use	13	1
	02-	Not Used					-B =	39.1		146	А		17,520			KVA Pass Thru Load	(	
	03-	Not Used					-C =	27.5		103	A		12,320			KVA Spare		
	04-	Not Used						hary =		124			44,760			KVA Total	13	-



XX	XX	TE	ELCO (V-D-	TV) SCHEDULE	XX	XX
-	<b>tte Co</b> ville, GA.	<b>Fire Station 02</b> 30241	Broadband-D	ata-Telco Distribution-Riser Schedule KAOD	18.09.27 Const	Date Status
Rv#	ID #	Comments / Descriptions	(Qty) Size, Etc	Description	Nt #	Run Ft
-	T01	Serivce Conduit	(2) 4.0"C	Empty Conduits With Long-Radius Bends, From Attic To Main Telco Board / Cabinet Per Utility- Field Verify In Writing		-
-	T02	Main Telco Backboard	4 Ftx 8 Ft, Btm 18" AFF	0.75" A/D Grade Plywood, 2-Coats Of Fire-Retardant Paint		
-	T03	Main Telco Backboard ITSB	Grnd Bar	Dual-Rated, 8-Hole Lug With 2-Mtg Holes. ILSCO PET or Equal		
-	T04	ITSB Bond/Grnd To Main	(1) #2G- 1"PVC	na		
-	T05	Conduits To Attic / Plenum	(5) 2.0"	From Top Of Bkbd Up & Into Plenum With 90 Degree Elbow(s)		
-	-					
Rv#	Nt #		Gene	eral Notes Applicable To All		
-	GN-01	-		ice / Data / Telco / Etc) The Specific Service Point(s), Service Rou Each And To The Owner, G.C., Architect & Engineer.	ute(s), Co	nduit
-	GN-02	Each Conduit Bend Shall Be Lor	ng-Radius Type Bend, Cor	nduits 2.0 Inch And Smaller, Trade Size, Shall Have Bends Of No Iave A Minimum Bend Radius Of No Less Than 10X Times The T		
-	GN-03	All In-Slab Conduit(s) Stub-Up(s	•			
-	GN-04			nooth Bushing; Left With A Pull-Line Tied Off At Each End, & Label nded To The Ground System. Mark Each Conduits Location & Ro		
-	GN-05	Properly Fire / Smoke Seal Eac	h Penetration Of Rated Bar	riers In Accordance With The Code(s).		
-	GN-06	Backboards & Cabinets Shall Be	Secured To The Building	Structural Members, Not To Wall Surfaces.		
- 18-127				3-D-T Schedule		
10-127						

Projec	t:	Fayette Co Fire	e Station 02					L	Α		Schd				Fayettev	ville, GA. 30241	City,	St
Gen N	lt 1:	Bkr Ties On Multi-Wire Ck	s NEC 210.4B					Volt	- LL	208		En	closure-Mtg:	NEN	1A 1	Wall Surf Mtd.		
Gen N	t 2:	Seismic Certified & Seismic	Rated Anchors & Su	ppor	ts Reqd.			Volt-	· LN	120		Co	over & Door:	Doo	r-In-Door, With Locks	j		
Gen N	t 3:							Phs	3	W.	4		OCP Types:	Mair	n - MCCB-60C/75C	Branch- MCCB, 60C/75C	Lugs	;
Gen N	t 4:						E	Buss A	mps	200A			All Busing:	CU	or AL	100% N & G Busing		
	_	All 20A/ 1P MCCB To Ha	ve AFCI Protection	(NE	, ,			Main C							eled Per NEC & OSH			
18-12		MADDOX GROUP INC.			Spare % =		KA	-AIC S	SCA				18.09.27			Const	_	
Rv I	Nt	Description	Wiring	ID	W/VA		Ρ	#	Ρ	#	OCP	Ρ	W/VA	ID	Wiring	Description	Nt	R
		M.CU.01, 2.0T	See Connect Data	С	1,186	20	-	01	Α	02	20	1	1,500	А	See Connect Data	Appl- Ice Maker		
		208V, 1Ph	= = =	С	1,186	-	2	03	В	04	20	1	1,500	А	See Connect Data	Appl- K-Range Hood		
		M.CU.02, 2.5T	See Connect Data	С	1,410	25	-	05	С	06	20	1	1,500	А	See Connect Data	Appl- K-Refg		
		208V, 1Ph	= = =	С	1,410	-	2	07	Α	08	20	1	1,500	А	See Connect Data	Appl- K-Freez		
		M.CU.03, 4.0T	See Connect Data	С	1,768	35	-	09	В	10	20	1	1,500	А	2# 12+ 12G-MC	Appl- Kitch Island		
		208V, 1Ph	= = =	С	1,768	-	2	11	С	12	20	1	1,500	А	See Connect Data	Appl- K-Microwave		
		M.CU.04, 2.5T	See Connect Data	С	1,410	25	-	13	Α	14	20	1	1,500	А	See Connect Data	Appl- K_Dishwash UC		
		208V, 1Ph	= = =	С	1,410	-	2	15	В	16	20	1	1,500	А	See Connect Data	Appl- K-Disposal UC		
		C-Dryer Resd	See Connect Data	Α	2,500	30	-	17	С	18	20	1	400	А	See Connect Data	Appl- Kitch		
		208V, 1Ph	= = =	Α	2,500	-	2	19	Α	20	20	1	400	А	See Connect Data	Appl- Kitch		
		M.EWH.01, 2.0kW	See Connect Data	G	1,000	20	-	21	В	22	20	1	400	А	See Connect Data	Appl- Kitch		1
		208V, 1Ph	= = =	G	1,000	-	2	23	С	24	20	1	1,500	А	See Connect Data	Appl- Laundry		
		M.GF.01, 0.50 HP	See Connect Data	Н	750	20	1	25	Α	26	20	1	200	R	2# 12+ 12G-MC	Rcpt- Ded- Shwr		
		M.GF.02, 0.50 HP	See Connect Data	Н	750	20	1	27	В	28	20	1	200	R	2# 12+ 12G-MC	Rcpt- Ded- Shwr		1
		M.GF.03, 0.75 HP	See Connect Data	Н	1,060	20	1	29	С	30	20	1	200	R	2# 12+ 12G-MC	Rcpt- Ded- Shwr		
		M.GF.04, 0.50 HP	See Connect Data	Н	750	20	1	31	Α	32	20	1	800	R	2# 12+ 12G-MC	Rcpt- Sleep Area		+
		C_Washer Resd	See Connect Data	R	1,500	20	1	33	В	34	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Sleep Area		-
		M.WH.01 Ignitor	See Connect Data	E	900	20	1	35	С	36	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Sleep Area		+
		M.F.08,03,13	See Connect Data	R	1,500	20	1	37	A	38	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Misc		+
		M.F.14 + KH.01(Hood)	See Connect Data	R	1,500	20	1	39	В	40	20	-	1,500	G	See Connect Data	M.EWH.01	1	+
		M.F.05,06	See Connect Data	R	1,500	20	1	41	C	42		2	1,500		= = =	3.0 kW, 208V, 1Phs		
		M.GF.05, 0.50 HP	See Connect Data	Н	750	20	1	43	A	44	20	-	400	A	See Connect Data	Appl- Kitch		+
		> Spare MCCB <			0	20	1	45	В	46	Sp	1	0			< Space Only >		-
		> Spare MCCB <			0	20	1	47	C	48	Sp	1	0			< Space Only >		+
		< Space Only >			0	Sp	1	49	A	50	Sp	1	0			< Space Only >		-
		< Space Only >			0	Sp	1	51	В	52	Sp	1	0			< Space Only >		+
		< Space Only >			0	Sp	1	53	C	54	Sp	1	0			< Space Only >		+
<i>It#</i> 0 <sup>-</sup>	1_	HACR Listed & Labeled M			0		-A =	33.8		148	<u>ор</u> А	1	17,756	\/Δ		KVA Facotred End Use	141	Δ
vi# 02		Not Used					А = s-B =	32.2		140	A		16,914			KVA Pass Thru Load		) A
v# 02		NotUsed					-C =			149	A		17,938			KVA Pass Thru Load		1 A
N# 0. N# 04		NotUsed						nary =	1 /0	149 146	A A		<b>52,608</b>			KVA Spare		2 A

Project	:	Fayette Co Fire	e Station 02					L	В		Schd				Fayettev	ville, GA. 30241	City,S	it.
Gen Nt	t 1:	Bkr Ties On Multi-Wire Ckt	s NEC 210.4B					Volt	- LL	208		En	closure-Mtg:	NEN	1A 1	Wall Surf Mtd.		
Gen Nt	t 2:	Seismic Certified & Seismic	Rated Anchors & Su	ipport	ts Reqd.			Volt-	LN	1 <b>20</b>		C	over & Door:	Doo	r-In-Door, With Locks	5		
Gen Nt	t 3:							Phs.	3	W.	4		OCP Types:	Mair	n - MCCB-60C/75C	Branch- MCCB, 60C/75C	Lugs	
Gen Nt								Buss Ar					All Busing:			100% N & G Busing		
	_	All 20A/ 1P MCCB To Ha	ve AFCI Protection	(NE	,			Main C							eled Per NEC & OSH			
18-12	_	MADDOX GROUP INC.			Spare % =	-		-AIC S	SCA				18.09.27			Const	<u> </u>	_
Rv M	١t	Description	Wiring	ID	W/VA	1	Р	#	Ρ	#	OCP	Р	W/VA	ID	Wiring	Description	Nt	Rv
	2	Ltg- Truck Hi-Bay (a)	#10+ 10G-MC	L	1,200	20	1	01	Α	02	20	1	710	L	#10+ 10G-MC	Ltg- Truck Bay Util		
	2	Ltg- Truck Hi-Bay (b)	#10+ 10G-MC	L	1,200	20	1	03	В	04	20	1	775	L	#12+ 12G-MC	Ltg- Sleep Area		
	2	Ltg- Truck Hi-Bay (r)	#10+ 10G-MC	L	1,200	20	1	05	С	06	20	1	610	L	#12+ 12G-MC	Ltg- Day Area		
	2	Ltg-Extr	#10+ 10G-MC	L	415	20	1	07	Α	08	20	1	880	L	#12+ 12G-MC	Ltg- Day Area		
	2	Ltg-Extr	#10+ 10G-MC	L	250	20	1	09	В	10	20	1	710	L	#12+ 12G-MC	Ltg- Offices		
	2	Ltg- Extr	#10+ 10G-MC	L	360	20	1	11	С	12	20	1	1,100	L	#12+ 12G-MC	Ltg- Exercise		
	2	Ltg- Step Lts	#12+ 12G-MC	L	200	20	1	13	Α	14	20	1	0			> Spare MCCB <		
		> Spare MCCB <			0	20	1	15	В	16	20	1	0			> Spare MCCB <		
		Relay Pnl	2# 12+ 12G-MC	E	300	20	1	17	С	18	20	1	0			> Spare MCCB <		
		Security Ctrl Pnl-Ded	2# 12+ 12G-MC	E	900	20	1	19	Α	20	20	1	1,400	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		V-D Telco Ctrl Pnl-Ded	2# 12+ 12G-MC	E	900	20	1	21	В	22	20	1	1,400	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		V-D Telco Ctrl Pnl-Ded	2# 12+ 12G-MC	E	900	20	1	23	С	24	20	1	600	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	25	Α	26	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Day Rm Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	27	В	28	20	1	800	R	2# 12+ 12G-MC	Rcpt- Day Rm Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	29	С	30	20	1	600	R	2# 12+ 12G-MC	Rcpt- Day Rm Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	31	Α	32	20	1	600	R	2# 12+ 12G-MC	Rcpt- Offices		
		Rcpt- Exercise	2# 12+ 12G-MC	R	1,000	20	1	33	В	34	20	1	600	R	2# 12+ 12G-MC	Rcpt- Offices		
		Rcpts-Extr	2# 12+ 12G-MC	R	800	20	1	35	С	36	20	1	800	R	2# 12+ 12G-MC	Rcpt- Offices		
		Rcpts-Extr	2# 12+ 12G-MC	R	600	20	1	37	Α	38	Sp	1	0			> Spare MCCB <		
		> Spare MCCB <			0	20	1	39	В	40	Sp	1	0			> Spare MCCB <		
		> Spare MCCB <			0	20	1	41	С	42	Sp	1	0			> Spare MCCB <		
		< Space Only >			0	Sp	1	43	Α	44	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	45	В	46	Sp	1	0			< Space Only >		
		< Space Only >			0	-	1	47	С	48	Sp	1	0			< Space Only >		
		< Space Only >			0		1	49	Α	50	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	51	В	52	Sp	1	0			< Space Only >		
		< Space Only >			0	Sp	1	53	С	54	Sp	1	0			< Space Only >		
<i>Nt</i> # 01	-	HACR Listed & Labeled M	ССВ			<u> </u>	-A =	35.7		71	A		8,505	VA	26.4	KVA Facotred End Use	73	А
Nt# 02		Thru LV Relay Pnl & LV S	Switching				-B =	32.9		65			7,835			KVA Pass Thru Load	0	
Nt# 03	3-	NotUsed				Phs	-C =	31.4	%	62	А		7,470		4.0	KVA Spare	11	А
Nt# 04	1-	NotUsed				S	umm	nary =		66			23,810			KVA Total	84	

inter town	Didham E 75 Jac Bidg 4 Newnan, Telephone Facsimile E-Mail: ir	Design, In ckson Stree 00 - Suite 7 Georgia 3 e: 770-683 e: 770-683 nfo@kaod	et 100 30263 -9170 -9171 I.com
THIS I PRC REPF WIT	ESIGN & 9309 Se Jonesbo 770- maddoxgro DRAWING AND DPERTY OF THE RODUCED, PUB HOUT THE PER TMG P	DIA TRED DIS253 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS5555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS55555 DIS555555 DIS555555 DIS555555 DIS555555 DIS555555 DIS555555 DIS555555 DIS555555 DIS555555 DIS555555 DIS5555555 DIS555555 DIS5555555 DIS5555555 DIS55555555 DIS55555555 DIS555555555 DIS5555555555 DIS555555555555 DIS555555555555555555555555555555555555	HE DOOX OUP RING oad 0236 ast.net
DATE 18.09.27	ACTION Issued	CON	MMENTS t & Construction
F	1330 92 ayettevil Prej FAYE	TTE ( STAT # 2 Highway North lle, GA 3 pared f TTE E DEF	ON 0214 or CO.
	18 SHE ELEC RIS SCHI SCHI SF	52.00 52.00 ET TITLE CTRIC SER EDUL HEET NO: -03 EASED	CAL & LES

1	7 Fayette Co Fire Station 02		18.0	9.27	
GS- R	NATURAL GAS GENERATOR SET / ATS CRITERIA	со	GS-	Rv	NATURA
1	GENERAL ITEMS, SUBMITTALS & DOCUMENTATION		4		UTOMATIC TRANSFER SWITC
	Provide a complete emergency power system consisting of a power generator (GenSet) with all related components and Automatic Transfer Switch (ATS). The contractor shall utilize the design service of the factory authorized system		4A		rovide A Complete Factory Asser Conditions, Automatically Start & St
1A	vendor to obtain the proper system operation, layout and function as required by the prevailing codes and these				unctions.
	project criteria.		4B		asis-Of-Design: This criteria and ower: BTPC Series Automatic
1B	The contractor, with vendor / installer, shall thoroughly & completely review the complete system requirements, characteristics & conditions prior to quote, and provide for the complete & proper system equipment, installed &		4C		tandards: CSA 282 Certified; IEE
	operation.		4D	N	IEC & NEMA Stds: NEC 700 / 70
1C	Provide all necessary installation, wiring, components, hardware, software, programming, testing and certifying to		4E 4F		IFPA: NFPA-20, 70, 99 & 110-Le
	provide a complete, properly functioning systems. These drawings & document represent only the minimum design internet. A complete system shall be provided in		4F 4G		IL: UL-1008 Labeled eismic: Seismic Certified With Attac
1E	accordance with all standards, AHJ & Code requirements.		4H	E	nclosure: NEMA 1 Indoor, Lockir
	The contractor shall utilize the design service of the factory authorized system vendor to obtain the proper system		41		uto. Transfer: Programmed-Dela
1F	layout(s), function, interoperability with systems of other trades, wiring & operation, as required by this specification, drawings, prevai		4J 4K		lanual Transfer of ATS: Feature / solation By-Pass: Yes- DeEnergiz
1G	Coordinate with all other trades for the proper coordination and interfacing with their work, systems & control(s).		4L		oles: 3-Pole Transfer, Solid Neut
	Submit complete product data & wiring diagrams showing the control panel(s), all devices, wiring and related items. All		4M		oltage & Phase @ 60 Hz.: 208Y-
1H	wiring & connection shall be labeled and identified. Submit plans and related data to other related trades and vendors for proper		4N 40		mperage: 400 Amps (Phase & N .ux Relays: Equipped With Two S
41	The system design, equipment & material, function & operation shall comply with - National Electrical Code;		4P		pplication: Listed for Utility-To-Ge
11	Underwriters Laboratory Labeled; & Local Codes & Authority Having Jurisdiction				igital Controller: Industrial Grade,
2	MANUFACTURERS & WARRANTY		4Q		Vith RS-485 Port For PC-Monitori Indervoltage & Overvoltage & Fr
	All components shall be new, standard manufacturer cataloged items, and shall be fully compatible & provided by the				leter & Function Indication; Date 8
2A	Generator Set Provider so as to provide unit-responsibility for the complete & proper operation of the			A	ux. Relays: UL Listed, 600VAC,
	Emergency Generator System. Basis-Of-Design: This criteria and design is based on manufacturer-matched components & products of		5	R	ELATED COMPONENTS, EQUI
2B	Cummings Power. (404-765-5150)				Remote Annunciator: Provide A Co
2C	Equivalent Product: Products providing the equivalent performance, characteristics and features may be quoted as		5A		Generator Monitoring & Alarm Ann tatus & Warnings. UL Labeled; C
	Adds or Deducts to the base design package. Catipelair / Olympian, Generac, Kohler Base Warranty: 5-Year Basic Power Warranty				anus & warnings. OL Labeled; C Remote Monitoring System: Provid
2D	Service-Maintenance Agreement: Provided by the Generator Set Provider for the owner's optional acceptance.			s	et, ATS & related items. This shal
3	POWER GENERATOR CRITERIA		5B		Reports, Diagnostics & Security, E With Owner), Rated for use in indu
	Provide A Complete Factory Assembled, Pre-Wired, Pre-Tested Engine Generator Set Mounted On A Steel Frame				Vith Owner). Rated for use in indu Compliant, RoHS Compliant.
3A	With Vibration Isolators, Siesmic Rated, Complete With Anchoring			E	nclosure: Outdoor Type (that also
3B	Basis-Of-Design: This criteria and design is based on manufacturer-matched components & product of Cummings Power : C150N6 Engine Generator Set.		5C		corrosion Resistant Protective Coa 0 100-MPH, Level-1 Sound Rated
3C	Application (Per ISO & Related Standards): Emergency Stand-By (ESP)		50		uel System (Natural Gas): See E
3D	EPA Application: NSPS Stationary Emergency Certified		5D		nd Gas Supply Company. Verify
3E 3F	NFPA: 101-Life Safety; NFPA-110 Type 10 (Level 1 & @ & Standby) & NFPA-70 (NEC) UL: UL-2200 Certified		6	S	SYSTEM INSTALLATION:
3G	Location Environment Temperatures & Elevation: Atlanta, Ga (Metro Area)		6A		rovide for a complete & functionin
3H	Power Rating (60Hz): 150-kW / 188- kVA (Nominal)				IEIS-404 & the manufacturer's wr
3I 3J	Maximum Surge Power kW: 156-kW Maximum Motor Starting kVA (Recovering to 90% Rated Voltage): 220-kVA		6B		Il wiring shall be installed in cond Il exposed generator set related
3K	Output Voltage & Phase @ 60 Hz: 208Y-120V, 3-Phase, 4-Wire		6C	n	natching boxes, etc. All generator
3L	Output FLA & OCP: 521 FL Amps; 400-Amp, 100%-Rated Circuit-Breaker				irected by architect.
3M	Fuel Type & Use: Natural Gas, 1,175 SCFH @ 50% Load, 1,907 SCFH @ 100% Load.		6D 6E		Il boxes, mountings & supports s Color code, number & label all wir
3N	Digital Isochronous Regulator: ISO 8528 Part 1 Class G3 Digital Governor Regulation Class; +/- 1.0% Voltage Regulation (no Load to Full Load); Digital Isochronous Frequency Regulation; Complies With Standard Commercial &		6F		abel each device with its ID, func
	Industrial Radio Frequency Emissions Regulations.		6G		rovide a complete concrete mou
30	Engine:Naturally Aspirated or Turbocharged, Industrial Cast Iron Engine, 12 Volt Battery Charging Alternator,		6H		nanufacturer's recommendations. ully re-charge all batteries, test &
	Replicable Industrial Engine Lube Filter, Unit Mounted Radiator & Cooling Pump. Alternator: Reconnectable Type; 4-Pole Brushless Drip Proof Revolving Field Alternator; 2/3 Stator Pitch; NEMA MG1-		61		Change engine oil & all filters with
3P	1.65 Class-H Insulation System; Total Harmonic Distortion Less Than 5% (No Load To Full Load); Telephone		6J		rovide a complete Natural Gas fu
	Influence Factor less than 50 Per NEMA MG1-22.43; Telephone Harmonic Factor Less Than 3			p	roper pressure and flow rate.
3Q 3R	Alternator Excitation: PMG- Permanent Magnet Generator Exciter Alternator Temp. Rise: 120-C Temperature Rise		7		YSTEM TEST, VERIFICATION
38	Digital Control System: Industrial Grade, Surge-Protected, Control System, Complete With All Control Functions,		7A		he manufacturer's factory authori ystem start-up.
	Features, Metering With Alarms & NFPA-110 Level 1 Compliance.		7B		Prepare & provide 3 copies of bou
3T 3U	Aux. Relays: Provide Auxiliary Dry-Contact Relay(s) Set For Remote Signaling. Starting Battery: Provide Battery, Charger, Monitor & Battery Warmer, 0-F Rated				ompany Names, Personnel Nan
3V	Exhaust Silencer: Complete Exhaust System With Residential Grade Silencer		7C		he manufacturer's factory authori enerator system and testing, and
3W	Engine Coolant Heater: Automatic To Maintain Engine Temperature For Optimum Starting.		10	-	rchitect, engineer.
			7D	Т	he system shall be fully tested in
			7E		erform a on-site 3 hour full-load t
					t the completion of the project, de
	^		7F	s	imulate normal source power failu
	B			ť	nen restore normal power, obser
	$\angle$		18-1	127	
	Muffler Mounted On Top				
	(If Not In Enclosure) With Rain Cap				
	Engine G Weather-	enerator S Proof Outo	iet In Ioor		
		, Per Crie	tira /Specs.		
					Typ. Gas Supp Piping From
	as Line Size				Piping From Meter & Servic
	Slab Pour.	– Provide	#4 CU Grou	und To	Pressure Regulator
		Pad Reb Set Frar	oar & Bond n At Each E	To Gen Ind.	(5 To 30 PSI)
		Ба	ichor Unit To ise Per Man	nufactur	er Tvp. Quater-
		An	d Seismic F	kequirm	nents Turn, Ball-Type Shut-Off Vavle
					Typ. 4-Way
	cess Steps For		$\langle \rangle$		Fitting With Plugged
Ac	alk-In Enclosures nly If Required)		>		Test Port
Wa	Sach End	$\sim$	SetUnit		Typ. "Drip-Leg" 6 Inches Long
Wa	vide A Security Fence With	Con.	5		6 Inches Long Minimum.
Wa (Oi Pro	inimum Of 3-1 ocking Gates	than Gu			
Wa (Oi Pro A N	inimum Of 3-Locking Gates und Perimeter Of Pad.	Than Go	٨		Threaded Removable
Wa (Oi A N Aro Pro	cess Steps For lik-In Enclosures hly If Required) vide A Security Fence With linimum Of 3-Locking Gates und Perimeter Of Pad. vide 8" DIa, Concrete-Filled ard If Required For Protection	Than Go	,	•.	Removable Pipe Cap For
Wa (Oi A N Aro Pro	vide A Security Fence with inimum Of 3-Locking Gates und Perimeter Of Pad. vide 8" DIa, Concrete-Filled ard If Required For Protection. 3000 PSI Concrete Pad. 08 Inches Thick #4 Rebars	Than So		•	Removable Pipe Cap For Clean-Out Use
Wa (Oi A N Aro Pro					Removable Pipe Cap For

18127\_E04.dgn 9/26/2018 12:50:20 PM TMG

DETAIL # - MG

ALL GEN. SET CONNECTIONS SHALL BE MADE WITH LIQUID-TITE FLEXIBLE CONNECTORS.

MAINTAIN ACCESS CLEARANCES AROUND GENERATOR SET, FOR MAINTEANCE, SERVICEING & FUELING.

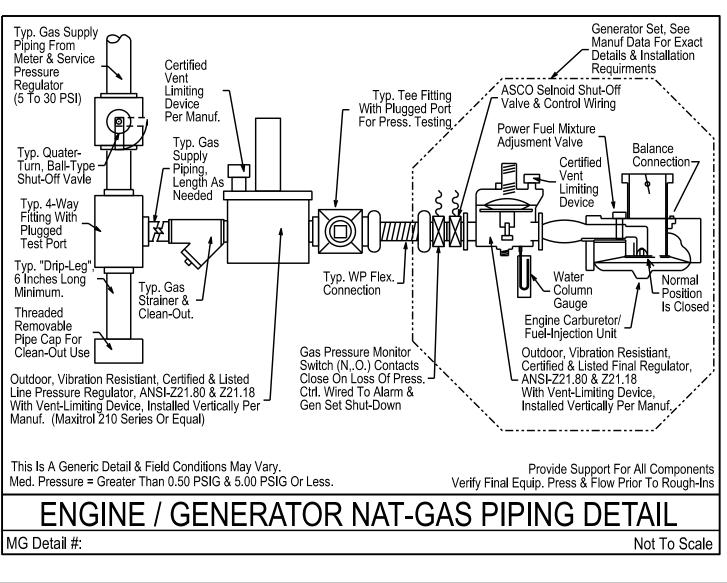
TYP. NAT-GAS GEN. SET- OUTDOOR MTG. DETAIL

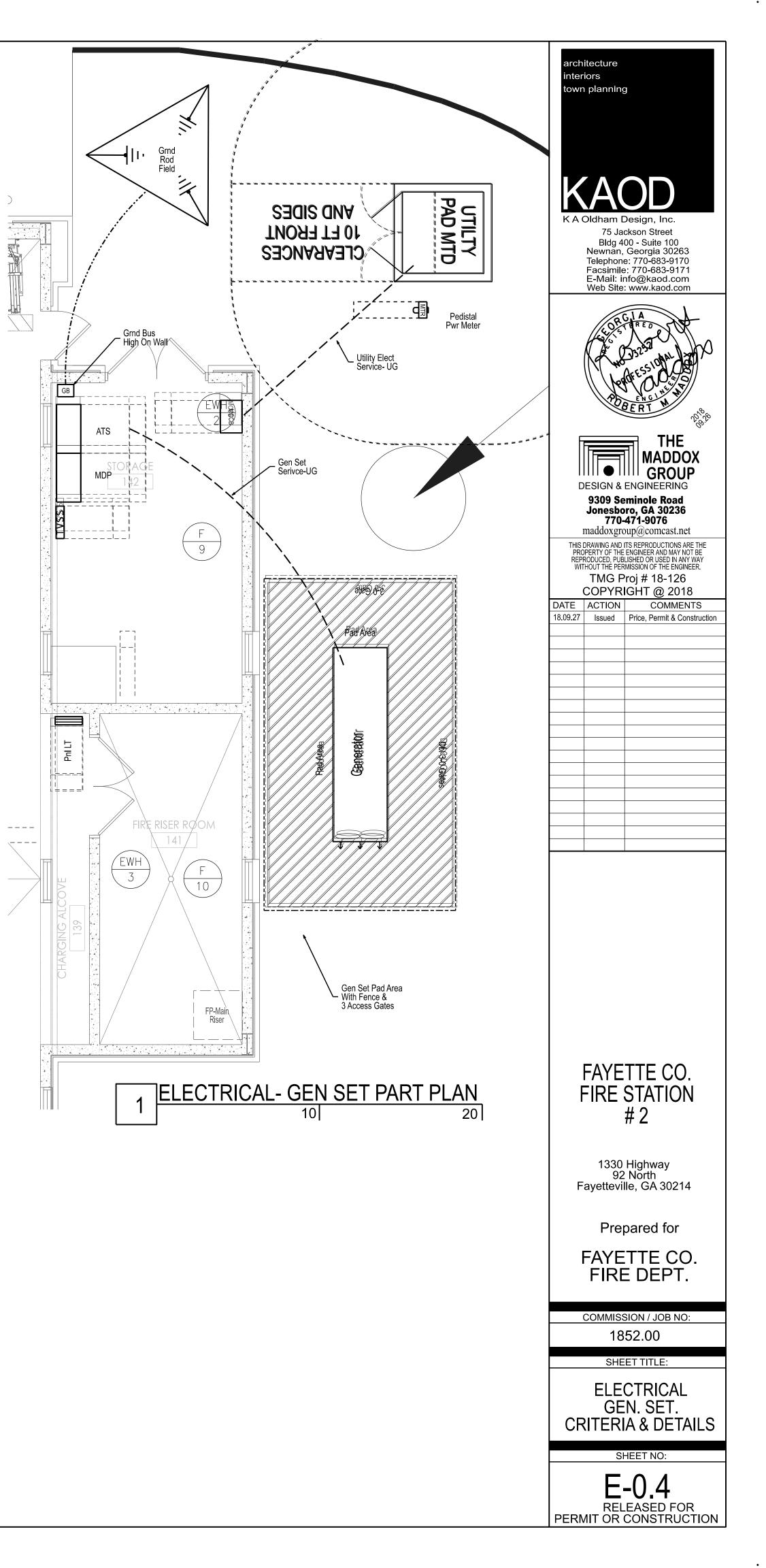
Fayette Co Fire Station 02	
GAS GENERATOR SET / ATS CRITERIA	CO
ATS)	
d, Pre-Wired, Pre-Tested Automatic Transfer Switch To Monitor Power Generator, & Transfer Power Between Sources & Related Components &	
sign is based on manufacturer-matched components by Cummings	
6 Compliant; ISO 9001 Certified.	
02; NEMA ICS 10 Compliant;	
01 Compliant	
ent Instructions.	
over, Front Mounted Controls & Meters	
oth Directions) Open-Transition (Break-Before-Make)	
ring Manual ⊺ransfer Of Switch If Auto Transfer Fails. 1anual ByPass To Either Source Capability & Isolation of main ATS. Ground Bus	
Volts, 3 Phase, 4 Wire	
I) 100% Continuous Duty Rated Df Auxiliary Contacts Rated 10 Amps @ 250VAC.	
tor.	
ge-Protected, Digital Microprocessor Providing Full-Authority Engine Protection Networking. Including, But Not Limited To, Adjustable Time Delays, ncy & Voltage Imbalance Sensing, Automatic Generator Exerciser and Fully ne Event Logging Feature. Indicate ATS Positions	
ENT & ITEMS ete Factor Pre-Assembled & Pre-Wired Wall-Flush-Mounted, Remote	
ator With Long-Life LED or Digital Display Providing Visual & Audible Alarms, Certified, CE Marked; NFPA 110 Compliant	
mplete hardware, software & set-up for teh remote monitoring fo the generator ide, but not be limited to, Monitor-Communicator (Data & Event Logging, Communicating via GSM / CDMA Cellular Antenna, Ethernet or USB (Verify & outdoor conditions. UL-60950-1; CSA Certified, CE Marked; FCC	
uses silencer) ; Heavy-Duty, Steel, Treated-Premiered-Powder Top Coat s; Locking Hinged & Removable Covers & Panels; Seismic-Rated; Wind-Rated	
e Data, Coordinate & provide for a Natural Gas supply with the other trades ired pressure & flow requirements with all parties.	
tallation in compliance with the National Electrical Code, NECA/ ANSI/ EGSA requirements & recommendations.	
g in unfinished areas (I.e. no ceilings) shall be in EMT conduit (minimum) with elated conduits, concealed & exposed, shall be painted red unless otherwise	
e labeled and approved for the purpose.	
conductors per point-to-point wiring diagram.	
pad with structural reinforcement. Anchor the generator set per the	
ort on their condition.	
types as directed by the generator set manufacturer. bing system complete with valves & regulators, properly sized to supply gas at	
CUMENTATION & SERVICE:	
& trained representative shall provide installation guidance and assistance, and	
peration manuals, part & service & "as-built" plans & wiring. Complete with the ith phone numbers & email address of all trades & parties involved.	
& trained representative shall provide a total system checkout of emergency send written certification of the system(s) proper operation to the owner,	
resence of the owner's representative(s), inspector(s), and AHJ . personnel.	
Provide load bank as needed for the testing. Fully document the test.	
trate proper system operation by turning off the normal power source to Observe & document the system operation, allow to run for 30 minutes minimum, proper return to normal source power & system shut-down.	

END OF GENERATOR SET / ATS CRITERIA

MG Detail #:

NOT TO SCALE



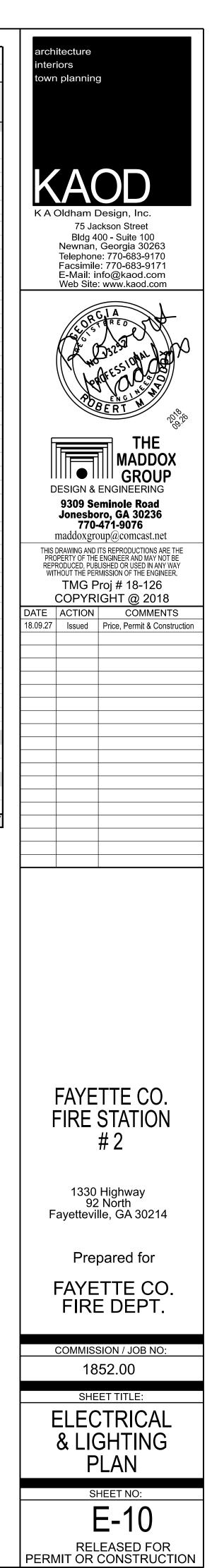


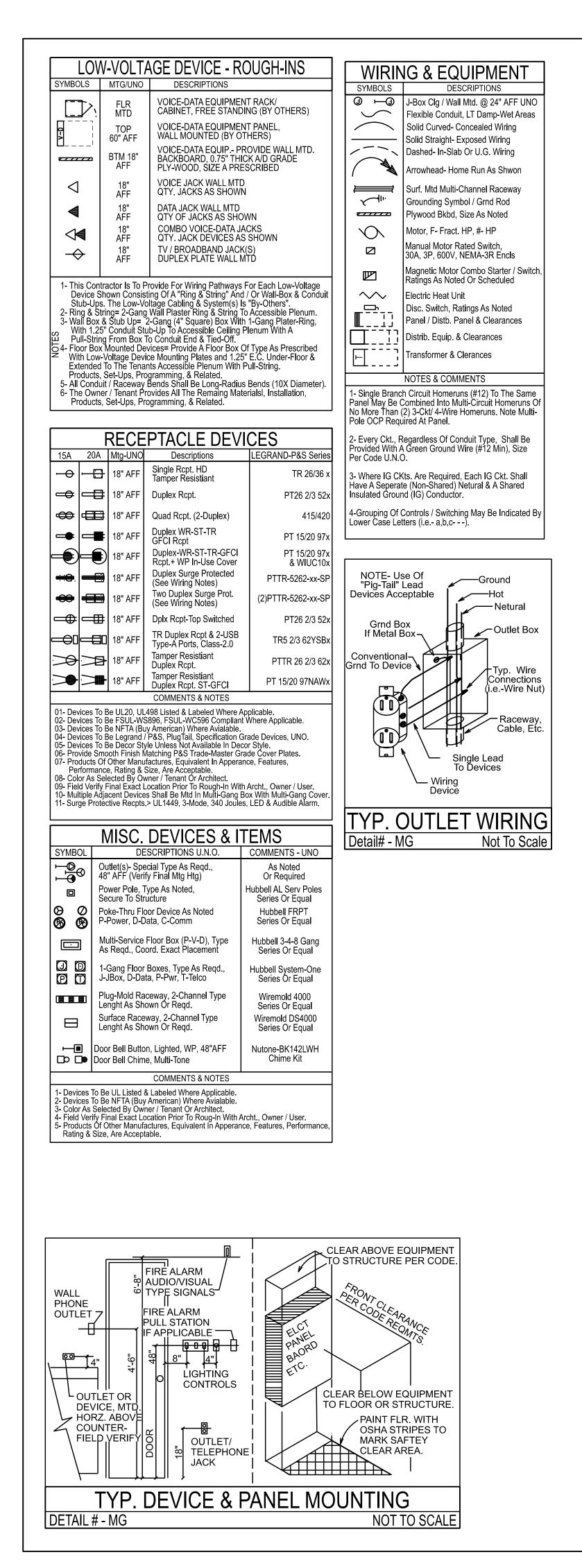
18.09	).27	Fayette Co Fire Station 02	Const
ID #	Rv #	LOW-VOLTAGE RELAY SWITCHING (LVRS) CX-HARDWIRED SYSTEM	Check Off
7.01	-	GENERAL - Providing complete Low-Voltage Switching System, consisting of LV Switching Panels with LV switching relays, completely pre-assembled & pre-wired with relays, power supply, controls and all components for a complete and properly operating system. Provide matching Hard-Wired LV switching devices, and controls.	
7.02	- 1	MANUFACTURER - The design is based on the products of Hubbell CX Lighting & Building Automation and shall be the manufacturer for the LV Relay Switching System.	
7.03		ALTERNATE MANUFACTURERS - Products of other manufacturers, providing the equivalent level of product quality, operation, functionality and features, shall be submitted as add / deduct to this manufacture for owner's considerations, complete with full product documentation and literature indicating complete compliance and performance.	
7.04	-	CODES & CERTIFICATIONS - All products shall be UL Listed, CSA approved, and comply with EEMAC / NEMA standards & NEC.	
7.05		WARRANTY - The system manufacturer shall warrant the complete system with a Full-Service-Warranty on all parts and labor for a minimum of 10 Years.	
7.00		SUBMITTALS - Prepare & submit project specific product documentation, including but not limited to, manufacturer's	
7.06		qualifications & personnel contact information, component product data, complete relay & component schedules and matching wiring diagrams for field use in the proper installation of the system.	
7.07		RELAY PANELS - Provide pre-assembled 16 or 24 Pole relay panels, pre-finished steel with hinged & locking cover / door for surface of flush mounting. The interior shall divider for LV siring per code, control power transformer sized for 125% of the load, LV devices and controls as required.	
7.08		RELAYS - Provide relays as scheduled and required for proper operation. Relays shall be Heavy-Duty, Full Load Rated, UL-508 Labeled, HID, breaker snap-in style, mechanically latching type with a manual ON/OFF switch that display the switches' ON/OFF state. 1-Pole, 20 Amp relays rated at 120 & 277 VAC. 1-Pole, 30 Amp relays rated at 120, 277 & 347 VAC. 2-Pole 20-Amp relays shall be rate for up to 480 VAC. UL 508 short-circuit rating of 14,000 Amps. Rated for switching of incandescent, fluorescent, electronic ballast & HID loads. 3,000 Amps inrush capability. Relays shall have a 5 year warranty.	
7.09		CONTROLLER- Solid-state, programmable relay controller to receive all control inputs and control all ouptus to relays. Controller shall include Astronomical Schedule 365-Day Time Clock-Scheduler, Automatic Daylight Saving Time & Leap-Year Compensition. Controller to have built-in keypad for programming & non-volatile memory.	
7.10		LCD USER INTERFACE- Provide front-mounted LCD display with touch-button interface device with instructions.	
7.11		CONTROL WIRING- Hard-Wired LV Two-Wire Per Switch Or Input Control Device	
7.12		SWITCHING STATIONS- Provide switching devices where shown and / or required. Devices shall be matching two- wire type. Each Switch Station shall provide for up to 6 Pilot-Light buttons. Devices located in wet locations shall be Wet- Location listed & labeled. Devices shall be of same manufacturer as the LV system manufacturer U.N.O.	
7.13		WALL SWITCH / LOCAL USE VANDAL RESISTIANT - Provide where shown or required heavy-duty, vandal resistant wet-location labeled switch & cover plate with tamper resistant screws. Engrave cover plate with switch function (i.e. lights). Douglas WR-8321 Series	
7.14		WALL SWITCH / KEY OPERATED - Provide where shown or required heavy-duty, key-operated switch & cover plate. Engrave cover plate with switch function (i.e. lights).	
7.15		WALL MASTER / GROUP SWITCHES - Provide where shown or required heavy-duty, multi-gang group mounted rocker type switches, complete with all switches, mounting hardware & cover plates. Label switches with their function (i.e. lights).	
7.16		INSTALLATION PER MANUFACTURER, NEC, NEIS - The LVRS shall be installed in accordance with the manufacturer's written documentation, NEC & NEIS. The manufacturer's factory authorized & trained agent shall provide installation guidance and assistance and system start-up.	
7.17		INSTALLATION CABLING - All wiring shall be CU in conduit or Type MC cable unless otherwise noted. The wire size shall be per the manufacturer. Wire size shall be increased to the next larger standard size for runs over 100 Feet.	
7.18		INSTALLED MANUFACTURERS CHEK-OUT & CERTIFICATION: Prior to energizing the system, the Manufacturers Authorized Agent, shall perform and On-Site Check-Out of the completed system and provide written certification that the components and installation are acceptable, that the system is fully programmed / scheduled and fully functional & properly operating.	
7.19		INSTALLED DOCUMENTATION - Provide three sets of As-Installed Field Record document of the completed system, showing all equipment, components & wiring. Include complete manufacturer & product documentation and warranty forms.	
7.20		INSTALLATION DEMONSTARTION & TRANING - The complete system(s) shall be fully demonstrated to the Owners Representative(s) to show full compliance and proper operation. Train the Owner's Personnel in the proper operation, programming and maintenance of the system.	
-		End Of Low Voltage Relay Switching Systems	-
		End LITLOW VOITAGE REIAV SWITCHING SVSTEMS	

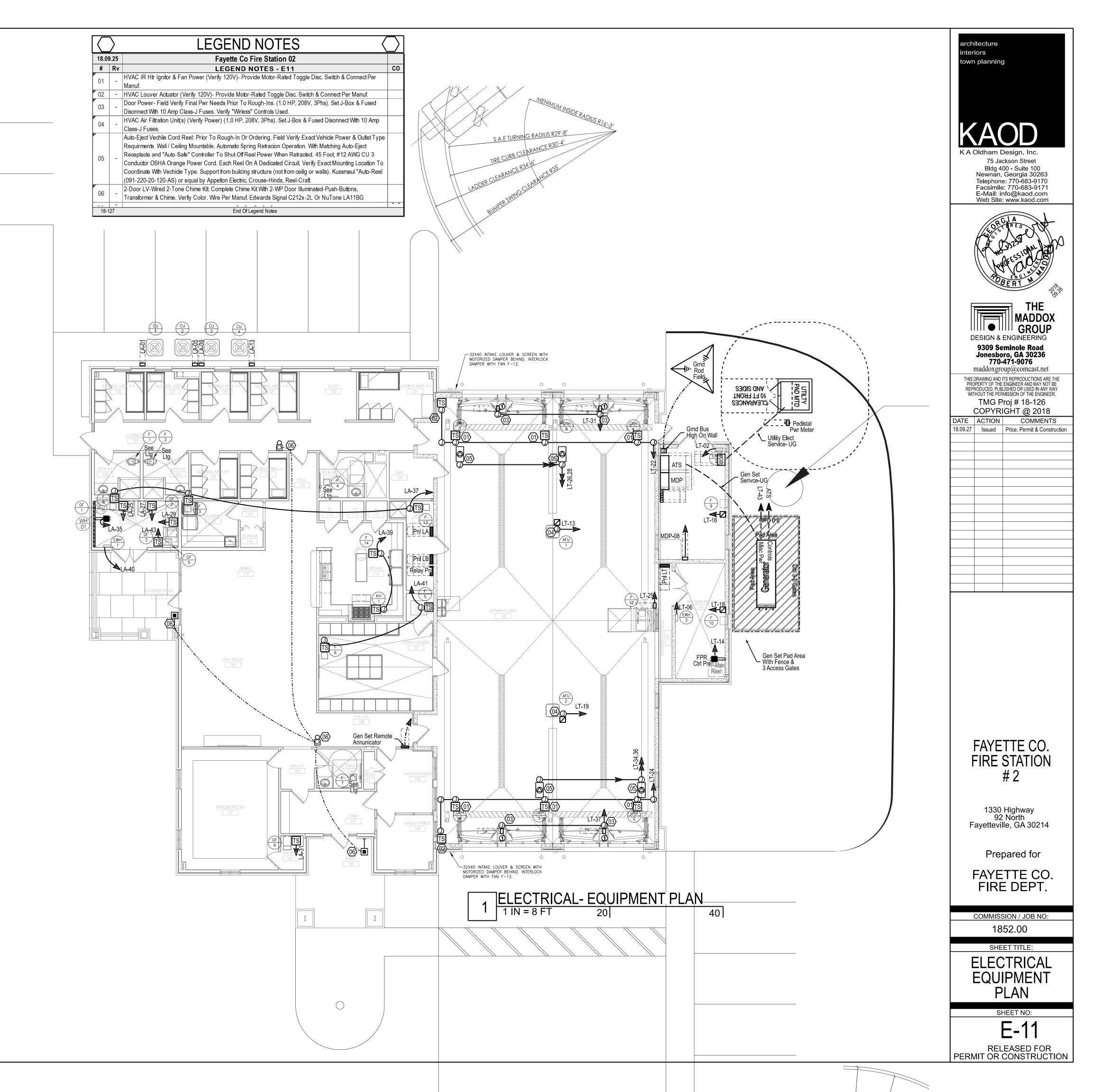
	LOW-VOL	AGE	: KEI	LATP	ANE	:L (L'	VKP)	<b>SCHE</b>	DULE		
Proj	Fayette Co Fire Station 02									VRP Pnl:	_LVRP-A
Place	Fayetteville, GA. 30241										18.09.27
For	KA Oldham Design, Inc.									Status:	Const
Basis	Hubbell Relay Systems - CX Se	ires		y Functi						Encls:	NEMA-1
Rv#	Circuit Load Description	Rly #	Rly Type	Rly Amps	Rly Pole	PNL	CKT #	Master Ctrl- <b>LM</b> x	Group Ctrl- <b>LG</b> x	Local Ctrl- LLx	Specific Item Nt #
-	Ltg- Truck Hi-Bay (a)	01	L	20	1	LB	01	-	LGa	LSa	1
-	Ltg- Truck Hi-Bay (b)	02	L	20	1	LB	03	-	LGb	-	1
-	Ltg- Truck Hi-Bay (r)	03	L	20	1	LB	05	-	LGr	-	2
-	Ltg- Extr	04	L	20	1	Lb	07	LAa	-	-	3a
-	Ltg- Extr	05	L	20	1	LB	09	LAa	-	-	3a
-	Ltg- Extr	06	L	20	1	LB	11	LAa	-	-	3a
-	Ltg- Step Lts	07	L	20	1	LB	13	LAb	-	-	3b
-	< Space Only >	08	-	-	1	-	-	-	-	-	-
-		-	-	-	-	-	-	-	-	-	-
	1	1	Contro	I Funtio	n & De	evice ly	pe				1
Rv#	Control Function Description	ID/ Tag	De	evice Typ	е	Mtg		Control D	es	Specific Item Nt 7	
-	Master All On-Off	LMx	LV	Push-But	on	Wall			-		
-	Group On-Off	LGx	LV	Push-But	on	Wall					-
-	Astro- Time Based Switching	LAx	Astro-Schd			Pnl		-			
-	0-60 Min. Manual Over-Ride	LTx	LV Push-Button			Wall			-		
-	Local On/ Off	LLx	LV Push-Button			Wall					-
-	Occupancy On-Off	LOx	0	cc. Senso	r	Wall					-
-	Sun Day-Light Control	LSx	Da	y LtSens	or	Clg					-
-	Dimming Control	LDx	Dim	mer-Man	ual	Wall					-
	·		Device	Type An	d Abb	revatio	ns				
AST	Astronomic Schedule Timer				D	Dimmer	Relay				
DayLt	Day Light Sensor				E	Electrica	ally Held	Relay			
LVB	Low-Voltage Button Station				L	Latching	g Relay				
LVD	Low-Voltage Dimmer Station				-						
			S	oecific It	em No	tes #					
N01-	Local On / Off Switching From M	•		•	•		<b>,</b>				
N02-	Local On / Off Switching From M			`		•		Hi-Bay Lts	;)		
N03-	Astronomic Schedule On / Off a					•					
				l Notes A	Applic	abel To	All				
G01	Provide A Complete & Properly		• •								
G02	The Complete System(s) With Al			-		e Of Sin	gle Man	ufacturer	Responsib	oility.	
G03	Provide Complete Product & Wir	•									
G04	Provide All Enviromental Return		•	-	Manu	facturer.					
G05	Program System & Insturct User	On Pro	per Ope	eration.							
G06											
					_						
MADD	OX GROUP INC.				End C	fLV Rel	aly Sche	edule			18-1

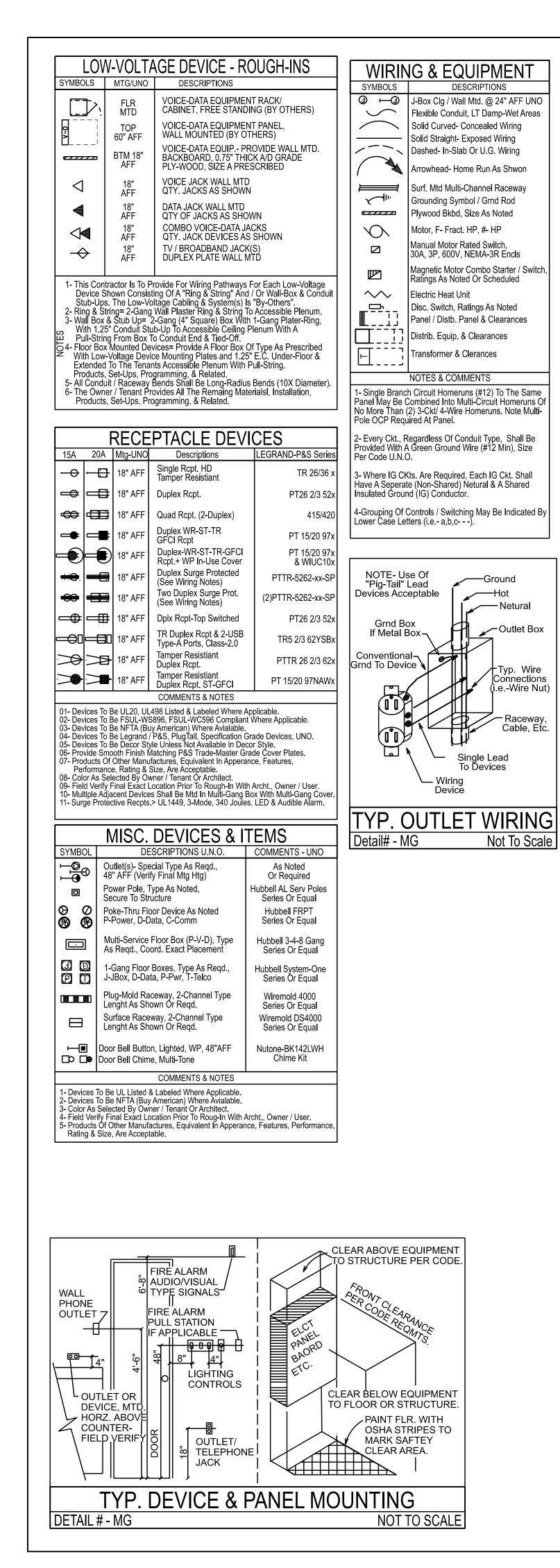
ID / TAG A-100 A-200 A-201	Qty #	, GA × х, X									+
ID / TAG A-100 A-200 A-201	Qty #	-		le, GA. 30241							Statu
A-200 A-201		<b>_</b>	Equipment / Description	Power Data- HP/ kW/ Etc	Volts	Phs	OCP A/P	Fed From	Wiring Data	Connection Data & Misc	lte No #
A-200 A-201		2		Δ.	cht.	ltor					H
A-200 A-201	6	Ν	Doors 4-Fold	1.0 HP Each	208	3	<u></u>	LT	#10 + 10G- MC	Direct Conn Per Manuf	
A-201	1	N	C-Washer	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	1	N	C-Dryer	Typ Resd	208	1	30/1	LA	#10 + 10G- MC	Rcpt- NEMA 13-30R	
A-300	1	N	Ice Maker	Typ Rood	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
A-301a	1	N	Kitchen Hood- Ex Fan	See Mech	120		20,1	2, (	#12 120 MG		
A-302	1	N	Kitch- Refg	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
A-303	1	N	Kitch-Freez	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	-
A-304	1	N	Kitch- Microwave	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
A-305	1	N	Kitch- Dishwsher	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	<u> </u>									• •	
	1	N	Kitch- Disposal	Typ Resd	120	1	20/1			Ded, GFCI	
A-400a-d	۴4	N	Exercise Eqipment	Typ Resd	120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded	
				Buildin	a Sv	ster	n Items				
B-100	1	Ν	Fire Prot. Sprinkler Control Pnl		120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, TVSS	
B-200	1	N			120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded. TVSS	
			Voice-Data-Telco							· · · · · · · · · · · · · · · · · · ·	
	1		Equipment			1			#12+ 12G-MC	Rcpt- Ded, TVSS	
B-300	1	N	Equipment		120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded, TVSS	
				F	FF I	tem	9				
E-110	1	N	Air Compressor- Gen Use	7.5 HP	208	3	50	MDP	3# 8+ 10G- 0.75"C	DS- 60A,3P,NF,G,N-1R	
D_201	1	N	Truck Pwr	Charge Pwr	120	1	20/1	IT	#12+ 12G_MC	Via Cla Pwr Reel	
	_			•						•	
				•							
				•						•	
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				· · ·		1				•	
D-200		IN		Charge I wi	120		20/1	LI	#12+120-100	Via Cig I wi Neel	
						0					
With Time [	كمامير	(5.1)	) Min) On Pootort Aftor E		- Ite			t Stort" Mot	or Stortor		
	Jelay	(5-10	J WIII) OII RESIAILAILEI F	ower Loss							
				Notes -	Annl			л			
Coordinate	& Ve	erify D	ata w/ Other Trades Pri						ions To Equipment F	Per Equip. Manuf. Data	
		5		, 0							
	TION	S & <sup>-</sup>	TERMS							ABBREVATIONS	
								MCCB		uit Breaker	
								F			
			,	•				FHMS		00	
									-	· · · · ·	
Disconnect	Togg	gle Sw	vitch, 120V-277V, 20A, 1	Р.							
								Px	-		
	-							WP	Weather Proof (NE	MA-3R)	
	•	· •	· ·					N	New		
								E	-	n-Place	
Toggle Swi	itch, N	/lotor	Rated, 30 Amp, 1.0 HP,	120-Volt, 1-2-3 Pole Ra	ated.			R	Relocate Existing		
								Х	Demo-Remove		18-
	B-200 B-300 B-300 B-300 E-110 D-201 D-202 D-203 D-204 D-205 D-206 With Time-I Coordinate  ABBREVA Direct Conr Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect	A-400a-d       4         B-100       1         B-200       1         B-300       1         B-300       1         B-300       1         D-201       1         D-202       1         D-203       1         D-204       1         D-205       1         D-206       1         D-206       1         D-206       1         D-206       1         D-206       1         D-206       1         Direct Connect F       1         Disconnect Non-       1         Disconnect Non-       1         Disconnect Togg       1         NEMA Encls Ty         Power Receptace; NEW       1	A-400a-d       4       N         B-100       1       N         B-200       1       N         B-300       1       N         D-201       1       N         D-202       1       N         D-203       1       N         D-204       1       N         D-205       1       N         D-206       1       N         D-205       1       N         D-206       1       N         D-206       1       N         D-205       1       N         D-206       1       N         D-206       1       N         D-206       1       N         D-206       1       N         Disconnect MCCB In       N         Disconnect MCCB In       N         Disconnect Non-Fuse       N         Disconnect Non-Fuse       N         Disconnect Non-Fuse       N      NEMA Encls Type (1	A-400a-d       4       N       Exercise Eqipment         B-100       1       N       Fire Prot. Sprinkler Control Pnl         B-200       1       N       Security Equipment         B-300       1       N       Security Equipment         B-300       1       N       Voice-Data-Telco Equipment         B-300       1       N       Air Compressor- Gen Use         D-201       1       N       Truck Pwr         D-202       1       N       Truck Pwr         D-203       1       N       Truck Pwr         D-204       1       N       Truck Pwr         D-205       1       N       Truck Pwr         D-206       1       N	A-400a-d       4       N       Exercise Eqipment       Typ Resd         B-100       1       N       Fire Prot. Sprinkler Control PnI          B-200       1       N       Security Equipment          B-300       1       N       Security Equipment          B-300       1       N       Security Equipment          B-300       1       N       Voice-Data-Telco Equipment          B-300       1       N       Voice-Data-Telco Equipment          B-300       1       N       Air Compressor- Gen Use       7.5 HP         D-201       1       N       Truck Pwr       Charge Pwr         D-202       1       N       Truck Pwr       Charge Pwr         D-203       1       N       Truck Pwr       Charge Pwr         D-204       1       N       Truck Pwr       Charge Pwr         D-205       1       N       Truck Pwr       Charge Pwr         D-206       1       N       Truck Pwr       Charge Pwr         D-206       1       N       Truck Pwr       Charge Pwr         D-206       1       N	A-400a-d       4       N       Exercise Eqipment       Typ Resd       120         Building Sy         B-100       1       N       Fire Prot Sprinkler Control Pnl        120         B-200       1       N       Security Equipment        120         B-300       1       N       Voice-Data-Telco Equipment        120         B-300       1       N       Voice-Data-Telco Equipment        120         FEE I         E-110       1       N       Air Compressor- Gen Use       7.5 HP       208         D-201       1       N       Truck Pwr       Charge Pwr       120         D-202       1       N       Truck Pwr       Charge Pwr       120         D-203       1       N       Truck Pwr       Charge Pwr       120         D-204       1       N       Truck Pwr       Charge	A-400a-d       4       N       Exercise Eqipment       Typ Resd       120       1         Building System         B-100       1       N       Fire Prot Sprinkler Control Pnl        120       1         B-200       1       N       Security Equipment        120       1         B-300       1       N       Security Equipment        120       1         B-300       1       N       Voice-Data-Telco Equipment        120       1         B-300       1       N       Voice-Data-Telco Equipment        120       1         B-300       1       N       Air Compressor- Gen Use       7.5 HP       208       3         D-201       1       N       Truck Pwr       Charge Pwr       120       1         D-202       1       N       Truck Pwr       Charge Pwr       120       1         D-203       1       N       Truck Pwr       Charge Pwr       120       1         D-204       1       N       Truck Pwr       Charge Pwr       120       1         D-205       1       N       Truck Pwr       Charge Pwr       120	A-400a-d       4       N       Exercise Eqipment       Typ Resd       120       1       20/1         B-100       1       N       Fire Prot. Sprinkler Control PnI        120       1       20/1         B-200       1       N       Security Equipment        120       1       20/1         B-300       1       N       Security Equipment        120       1       20/1         B-300       1       N       Voice-Data-Telco Equipment        120       1       20/1         B-300       1       N       Voice-Data-Telco Equipment        120       1       20/1         B-300       1       N       Air Compressor- Gen Use       7.5 HP       208       3       50         D-201       1       N       Truck Pwr       Charge Pwr       120       1       20/1         D-203       1       N       Truck Pwr       Charge Pwr       120       1       20/1         D-204       1       N       Truck Pwr       Charge Pwr       120       1       20/1         D-205       1       N       Truck Pwr       Charge Pwr       120       1 </td <td>A-400a-d         4         N         Exercise Eqipment         Typ Resd         120         1         20/1         LB           B-100         1         N         Fire Prot. Sprinkler Control PnI          120         1         20/1         LA           B-200         1         N         Security Equipment          120         1         20/1         LB           B-300         1         N         Security Equipment          120         1         20/1         LB           B-300         1         N         Security Equipment          120         1         20/1         LB           B-300         1         N         Voice-Data-Telco Equipment          120         1         20/1         LB           B-300         1         N         Air Compressor- Gen Use         7.5 HP         208         3         50         MDP           D-201         1         N         Truck Pwr         Charge Pwr         120         1         20/1         LT           D-203         1         N         Truck Pwr         Charge Pwr         120         1         20/1         LT           D-204</td> <td>A-400a-d       4       N       Exercise Eqipment       Typ Resd       120       1       20/1       LB       #12+ 12G-MC         B-100       1       N       Fire Prot. Sprinkler Control PnI        120       1       20/1       LA       #12+ 12G-MC         B-200       1       N       Security Equipment        120       1       20/1       LB       #12+ 12G-MC         B-300       1       N       Security Equipment        120       1       20/1       LB       #12+ 12G-MC         B-300       1       N       Voice-Data-Telco Equipment        120       1       20/1       LB       #12+ 12G-MC         B-300       1       N       Air Compressor-Gen Equipment        120       1       20/1       LT       #12+ 12G-MC         D-201       1       N       Truck Pwr       Charge Pwr       120       1       20/1       LT       #12+ 12G-MC         D-202       1       N       Truck Pwr       Charge Pwr       120       1       20/1       LT       #12+ 12G-MC         D-203       1       N       Truck Pwr       Charge Pwr       120       1</td> <td>A400a-d         A         N         Exercise Eqpment         Typ Resd         120         1         20/1         LB         #12+12G-MC         RcpL Ded           B-100         1         N         Fire Prot. Sprinkler Control Phil          120         1         20/1         LA         #12+12G-MC         RcpL Ded, TVSS           B-200         1         N         Security Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Voice-Date-Teloo Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Voice-Date-Teloo Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Voice-Date-Teloo Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Truck Pwr         Charge Pwr         120         1         20/1         LT         #12+12G-MC         Via Clg Pwr Reel           D-201         1</td>	A-400a-d         4         N         Exercise Eqipment         Typ Resd         120         1         20/1         LB           B-100         1         N         Fire Prot. Sprinkler Control PnI          120         1         20/1         LA           B-200         1         N         Security Equipment          120         1         20/1         LB           B-300         1         N         Security Equipment          120         1         20/1         LB           B-300         1         N         Security Equipment          120         1         20/1         LB           B-300         1         N         Voice-Data-Telco Equipment          120         1         20/1         LB           B-300         1         N         Air Compressor- Gen Use         7.5 HP         208         3         50         MDP           D-201         1         N         Truck Pwr         Charge Pwr         120         1         20/1         LT           D-203         1         N         Truck Pwr         Charge Pwr         120         1         20/1         LT           D-204	A-400a-d       4       N       Exercise Eqipment       Typ Resd       120       1       20/1       LB       #12+ 12G-MC         B-100       1       N       Fire Prot. Sprinkler Control PnI        120       1       20/1       LA       #12+ 12G-MC         B-200       1       N       Security Equipment        120       1       20/1       LB       #12+ 12G-MC         B-300       1       N       Security Equipment        120       1       20/1       LB       #12+ 12G-MC         B-300       1       N       Voice-Data-Telco Equipment        120       1       20/1       LB       #12+ 12G-MC         B-300       1       N       Air Compressor-Gen Equipment        120       1       20/1       LT       #12+ 12G-MC         D-201       1       N       Truck Pwr       Charge Pwr       120       1       20/1       LT       #12+ 12G-MC         D-202       1       N       Truck Pwr       Charge Pwr       120       1       20/1       LT       #12+ 12G-MC         D-203       1       N       Truck Pwr       Charge Pwr       120       1	A400a-d         A         N         Exercise Eqpment         Typ Resd         120         1         20/1         LB         #12+12G-MC         RcpL Ded           B-100         1         N         Fire Prot. Sprinkler Control Phil          120         1         20/1         LA         #12+12G-MC         RcpL Ded, TVSS           B-200         1         N         Security Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Voice-Date-Teloo Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Voice-Date-Teloo Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Voice-Date-Teloo Equipment          120         1         20/1         LB         #12+12G-MC         RcpL Ded, TVSS           B-300         1         N         Truck Pwr         Charge Pwr         120         1         20/1         LT         #12+12G-MC         Via Clg Pwr Reel           D-201         1

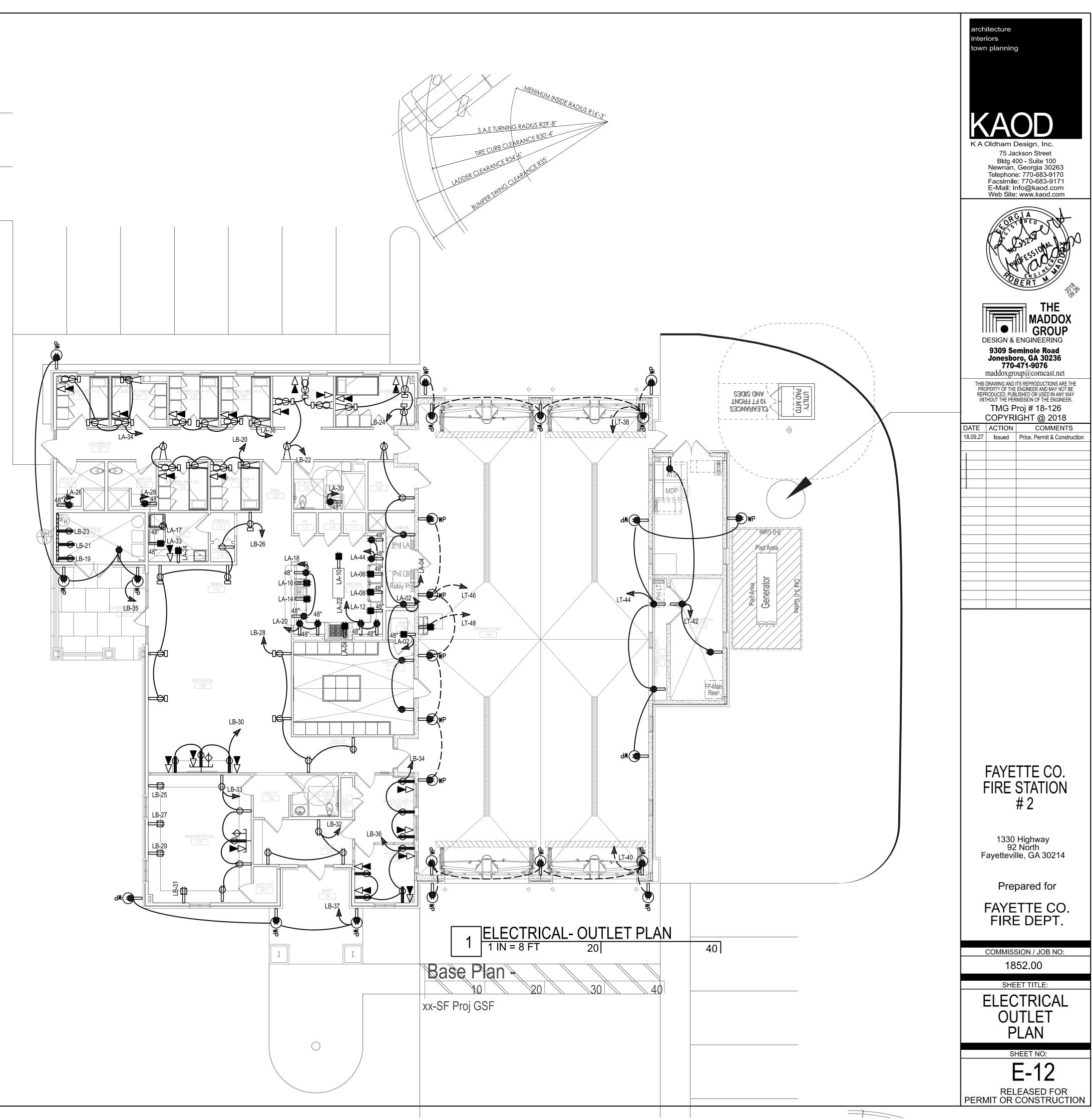
Proj: Fayette Co Fire Station 02					ELECTR	RICA	LC	ONNEC	TIONS	DATA	18.09.27	Date	
ace:	Fayettev	ille	, GA	A. 30241								Statu	
Rv #	ID / TAG	Qty #	N,E,R, X	Equipment / Description	Power Data- HP/ kW/ Etc	Volts	Phs	OCP A/P	Fed From	Wiring Data	Connection Data & Misc	Ite No† #	
	M.AFU.0 >			HVAC> AFU (Air	Mechanical H			lumbina			DS- 30A, 3P, F-10A, G,		
-	2	2	N	Filtering) Air-Vac-911	1.0 HP	208	3		LT	As Shown	N-1R		
-	M.CU.01	1	N	Cond Unit	2.0 Ton, 14.1 MCA	208	1	20	LA	#12+ 12G-MC	DS- 30A,2P,NF,G,N-3R		
-	M.CU.02	1	Ν	Cond Unit	2.5 Ton, 16.8 MCA	208	1	25	LA	#12+ 12G-MC	DS- 30A,2P,NF,G,N-3R	_	
	M.CU.03	1	Ν	Cond Unit	4.0 Ton, 20.9 MCA	208	1	35	LA	#10+ 10G-MC	DS- 30A,2P,NF,G,N-3R		
	M.CU.04	1	Ν	Cond Unit	2.5 Ton, 16.8 MCA	208	1	25	LA	#12+ 12G-MC	DS- 30A,2P,NF,G,N-3R	1	
	M.GF.01	1	Ν	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P		
	M.GF.02	1	Ν	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P		
	M.GF.03	1	Ν	Furnace, Gas Heat	0.75 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P		
	M.GF.04	1	Ν	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P		
	M.GF.05	1	Ν	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P		
	M.F.01	1	N	Fan, Switch W/ Lts	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P		
	M.F.02	1	N	Fan, Switch W/ Lts	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P		
	M.F.03	1	N	Fan & Switch	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P		
	M.F.04	1	N	Fan, Switch W/ Lts	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P		
	M.F.05	1	N	Fan & T-Stat	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P		
		1	N	Fan, Switch W/ Lts	0.25 HP	120	1			#12+ 12G-MC	DTS- 20A,1P		
		1	N	Fan, Switch W/ Lts	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P	-	
		1	N	Fan & T-Stat	0.10 HP	120	1			#12+ 12G-MC	DTS- 20A,1P	-	
		1	N	Fan & Switch	0.25 HP	120	1	20A,1P	LT	#12+ 12G-MC	DTS- 20A,1P		
		1	N	Fan & Switch	0.25 HP	120	1	207,11 20A,1P	LT	#12+ 12G-MC	DTS- 20A,1P	-	
			N	Fan, Mech Ctrls	0.25 HP	120	1		LT	#12+ 12G-MC	DTS- 20A,1P		
		1	N	Fan, Mech Ctrls	2.0 HP, 2-Speed	208	3	20A, IP 20A, 3P	LT	#12 + 12G-MC	DS- 60A,3P,NF,G,N-1R		
	M.F.12	1	N	Fan & Switch	0.10 HP	1200	1	20A,3P	LA	#12+12G-MC	DTS- 20A,1P		
		1	N	Fan, Range Exahust	0.50 HP	120	1	20A, IP	LA	#12+ 12G-MC	DTS- 20A,1P	-	
	M.KH.01	1	N	Kitchen Hood- Lts &	See Mech	120	1	20/1	LA	#12+12G-MC #12+12G-MC	J-Box Flex & Connect		
				Fire Supp									
	M.EWH.01	1	Ν	Heat, Wall Heater	2.0 kW	208	1	20A,2P	LA	#12 + 12G- MC	Direct Conn		
	M.EWH.02	1	Ν	Heat, Wall Heater	3.0 kW	208	1	20A,2P	LT	#12 + 12G- MC	Direct Conn		
	M.EWH.03	1	Ν	Heat, Wall Heater	2.0 kW	208	1	20A,2P	LT	#12 + 12G- MC	Direct Conn		
	M.GRH.01	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P		
		_	_				1						
	M.GRH.02	_	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	_	
	M.GRH.03	_	Ν	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P		
	M.GRH.04	_	Ν	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P		
	M.GRH.05	_	Ν	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P		
	M.GRH.06	1	Ν	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P		
	M.PWH.01	1	N	Wtr Htg, Tank, Gas	Ctrls, Gas Ignitor	120	1	20A,1P	LT	#12 + 12G- MC	DTS & GFCI Rcpt	-	
	M.HCP.01	1	Ν	Circ Pump, HW	Ctrls + 0.125 HP	120	1	20A,1P	LT	#12 + 12G- MC	DTS & GFCI Rcpt		
					Notes	- Iter	n S	<u>pecific</u>					
1-	With Time-D	elay	(5-10	) Min) On Restart After F		- 1101		With "Soft	-Start" Moto	or Starter			
		,	-				04-						
					<u>Notes - /</u>	Appli	cal	ole To A	<u>11</u>				
		& Ve	erify D	ata w/ Other Trades Pri			G2-	Make Fin		ions To Equipment F	Per Equip. Manuf. Data		
١DD	OX GROUP IN	IC.				End	OF I	Elect. Conne	ction Data			18	

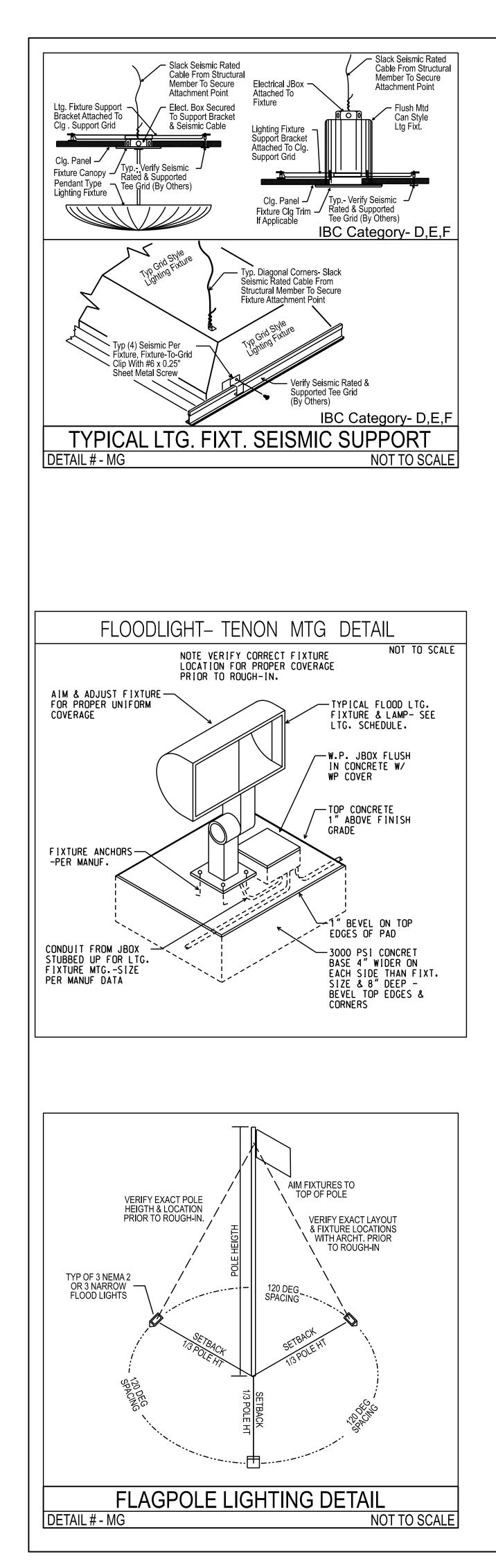


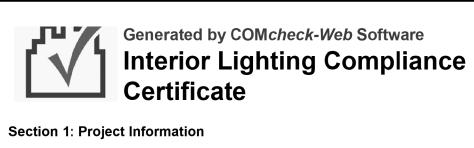












Energy Code: 2009 IECC

Project Title: Fayette Co Fire Sta-02, Hwy92N Project Type: New Construction Construction Site: Owner/Agent:

McElroy Road Fayetteville, Georgia

**Section 2: Interior Lighting and Power Calculation** 

Area Category Living Area (Police/Fire Station)

Truck Bay (Police/Fire Station)

## Section 3: Interior Lighting Fixture Schedule

## Fixture ID : Description / Lamp / Wattage Per Lamp / Ballas

Living Area (Police/Fire Station, 4454 sq.ft.)
LED: A: Other:
Exemption:Sleeping Unit Lighting
LED: B: Other:
Exemption:Exit Signs, Safety or Emergency Lighting
LED: C: Other:
LED: D: Other:
LED: E: Other:
LED: F: Other:
LED: G: Other:
LED: H: Other:
LED: I: Other:
LED: J: Cove Lt By Archt: Other:
LED: K: Other:
LED: L: Other:
LED: M: Other:
LED: N: Other:
Truck Bay (Police/Fire Station, 3682 sq.ft.)

	_	ction 4: Requirements Checklist	
'n	teri	ior Lighting PASSES: Design 3% better than code.	
		ighting Wattage: Total proposed watts must be less than or equal to total allowed wa	atts
		Allowed Watts Proposed Watts Complie 8136 7908 YES	es
		ct Title: Fayette Co Fire Sta-02, Hwy92N filename:	
	Сс	ontrols, Switching, and Wiring:	
	2.	Daylight zones under skylights more than 15 feet from the perimeter	er I
		vertical fenestration.	
	3.	Daylight zones have individual lighting controls independent from the	hai
		Exceptions:	
		Contiguous daylight zones spanning no more than two orientation	on
		Daylight spaces enclosed by walls or ceiling height partitions ar	nd
	4.	separate switch for general area lighting. Independent controls for each space (switch/occupancy sensor).	
		Exceptions:	
		Areas designated as security or emergency areas that must be	со
		Lighting in stairways or corridors that are elements of the mean	s c
	5.	Master switch at entry to hotel/motel guest room.	
	6.		
	7.	Medical task lighting or art/history display lighting claimed to be exe of the nonexempt lighting.	em
	8.	Each space required to have a manual control also allows for reduc controlling all luminaires, dual switching of alternate rows of lumina lamp luminaires independently of other lamps, or switching each lu	aire
		Exceptions:	
		Only one luminaire in space.	
		An occupant-sensing device controls the area.	
		The area is a corridor, storeroom, restroom, public lobby or slee	pi
		Areas that use less than 0.6 Watts/sq.ft.	
	9.	Automatic lighting shutoff control in buildings larger than 5,000 sq.f	t.
		Exceptions:	
		<ul> <li>Sleeping units, patient care areas; and spaces where automatic</li> </ul>	; sl
ב	10	D.Photocell/astronomical time switch on exterior lights.	
		Exceptions:	
		Lighting intended for 24 hour use.	
	11.	I. Tandem wired one-lamp and three-lamp ballasted luminaires (No s	ing
		- <i>"</i>	

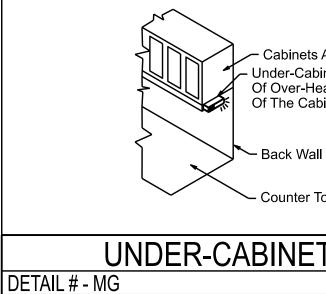
### Exceptions: Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair

## Section 5: Compliance Statement

## and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck-Web and to comply with the mandatory requirements in the Requirements Checklist.

#### Robert M. Maddox, PE Name - Title Signature

Project Notes: New Fire Station



# Counter Top **UNDER-CABINET LTG DETAIL** NOT TO SCALE

Of The Cabinet With Lens Facing Rear Wall

- Cabinets Above Under-Cabinet Type Ltg Fixt. Mounted To Under Side
 Of Over-Head Cabinet With Fixture Back To The Front

Light Fixture All Sides & Top	d
CLG. INSULATION AT LTG DETAIL	

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications

No single-lamp ballasts)

matic shutoff would endanger safety or security.

sleeping unit.

e exempt from compliance has a control device independent of the control reducing the connected lighting load by at least 50 percent by either inaires, alternate luminaires, or alternate lamps, switching the middle ach luminaire or each lamp.

eans of egress.

is and containing two or fewer light fixtures are not required to have a t be continuously illuminated

om that of the general area lighting. entations are allowed to be controlled by a single controlling device.

Report date: 09/25/18 Page 1 of 4 meter have lighting controls separate from daylight zones adjacent to

watts.

Designer/Contractor:

C Allowed

Total Allowed Watts =

1

B C D E Lamps/ # of Fixture (C X D) Fixture Fixtures Watt.

1 16 32 Exempt

1 47 3 Exempt

21

6

4

7

4

29

29

15

23

20

880

6 183 1098

11 11 121

35 55

12 42

1 12 183 2196

1 2 50 100

Total Proposed Watts = 7908

609

174

60

16

1925

880

504

D Allowed

4454

3682

8136

Watts / ft2 Watts (B x C)

B Floor

Area (ft2)

4454

3682

Proje Data

Controls, Switching, and Wiring:

Exterior Lighting Efficacy:

Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Exceptions:

Sec

Lighting Wattage: 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Passes using supplemental allowance watts.

Entry canopy (200 ft2): Tradable Wattage

Main entry (3 ft of door width): Tradable Wattage

Large Porch (Entry canopy, 365 ft2): Tradable Wattage

Front drive (Driveway, 2275 ft2): Tradable Wattage

Rear drive (Driveway, 2275 ft2): Tradable Wattage

2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

**5**. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

**1** 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

Lighting that has been claimed as exempt and is identified as such in Section 3 table above.

requirements in COMcheck-Web and to comply with the mandatory requirements in the Requirements Checklist.

Emergency lighting that is automatically off during normal building operation.

**6**. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications

and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC

ection 4: Requirements Checklist	
oject Title: Fayette Co Fire Sta-02, Hwy92N ta filename:	Report date: Pag
g r olo (epoblar loalaro aroa, ree ne). Hadablo Malago	

LED: WA: Other: 1 2 28 1 2 55 1 3 10 LED: WB: Other: 110 LED: WC: Other: Flag Pole (Special feature area, 100 ft2): Tradable Wattage

Generated by COMcheck-Web Software

Certificate

Owner/Agent:

Section 2: Exterior Lighting Area/Surface Power Calculation

Section 1: Project Information

Project Title: Fayette Co Fire Sta-02, Hwy92N

Project Type: New Construction Exterior Lighting Zone: 2 (Residential mixed use area)

Exterior Area/Surface

\* Wattage tradeoffs are only allowed between tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

Other door (not main entry) (15 ft of door width): Tradable Wattage

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

Energy Code: 2009 IECC

Construction Site:

Fayetteville, Georgia

Flag Pole (Special feature area)

McElrov Road

Entry canopy

Main entry

Rear drive (Driveway)

Front drive (Driveway)

LED: WA: Other:

LED: WF: Other:

LED: WA: Other:

LED: WA: Other:

LED: WF: Other:

LED: WA: Other:

LED: WB: Other:

LED: WC: Other:

Large Porch (Entry canopy)

Other door (not main entry)

**Exterior Lighting Compliance** 

Quantity

200 ft2

100 ft2

2275 ft2

2275 ft2

15 ft of door width

3 ft of door width

365 ft2

\*\* A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Designer/Contractor:

D

Yes

Yes

Yes

Yes

Yes

Yes

Total Allowed Watts = 788

Total Tradable Watts\* = 788 1011

Allowed Tradable Allowed Proposed Watts Wattage Watts Watts / Unit (B x C)

E

50

14

136

136

91

300

Yes 60 84

B C D E Lamps/ # of Fixture (C X D) Fixture Fixtures Watt.

1 3 28 84

55

1 3 27

1 3 28

1 4 27

1 3 28

1 3 10

1 2

165

150

196

224

108

84

С

0.25

0.14

0.06

0.06

0.25

20

20

Total Allowed Supplemental Watts\*\* = 600

110

e: 09/25/18 Page 3 of 4

LED 8 Ft, Enclosed & Gasketed F Gasketting, Wet-Location, IP67, Acrylic Lens, SS Latches & Mount

Proj: Fayette Co Fire Station 02

N Speed With Matching On-Off-Rev

Small UL-Wet-Location, LED Archi Wall-Pak; Vandal-Resistant Die-Ca

Off, Dark-Sky; Bronze Finish.Ve

Finish With Architet-Owner Pi

06 In.LED Dnlt, 45D Cut-Off, Diff-L

Reflector & Trim Ring, Damp/V wв "Decorative Fire-Station Red-Light

Wet-Location Listed; HE2-10D-SI Arm; Verify Finish With A Outdoor Damp-Rated Orbiting (

WD Light), 3-Blade, With Matching Clg

06 In.LED Dnlt, 45D Cut-Off, Diff-L

WF Reflector & Trim Ring, Damp/V

X2 Vandal-Resistiant 3-YF Dual-Function LED Extr & Batt.E Cast Alumn. Vandal-Resistiant, Contained Norm-AC / Emerg. E Heater & Self-Test-Monitor-Ala

Owner- Black, Dk-Bronze, Off-V Combo LED Exit Sign, 1/2 Face,

Univ Mtg. Batt-Back-Up, Red Ltr Self-Test-Alarm, 3-Yr. Warranty; V

Misc Abbrevation FBO- Furnished By Owner Complete L

FMC- Fixt Material Cost With Lamps & H IBC - Installed Complete By Contractor,

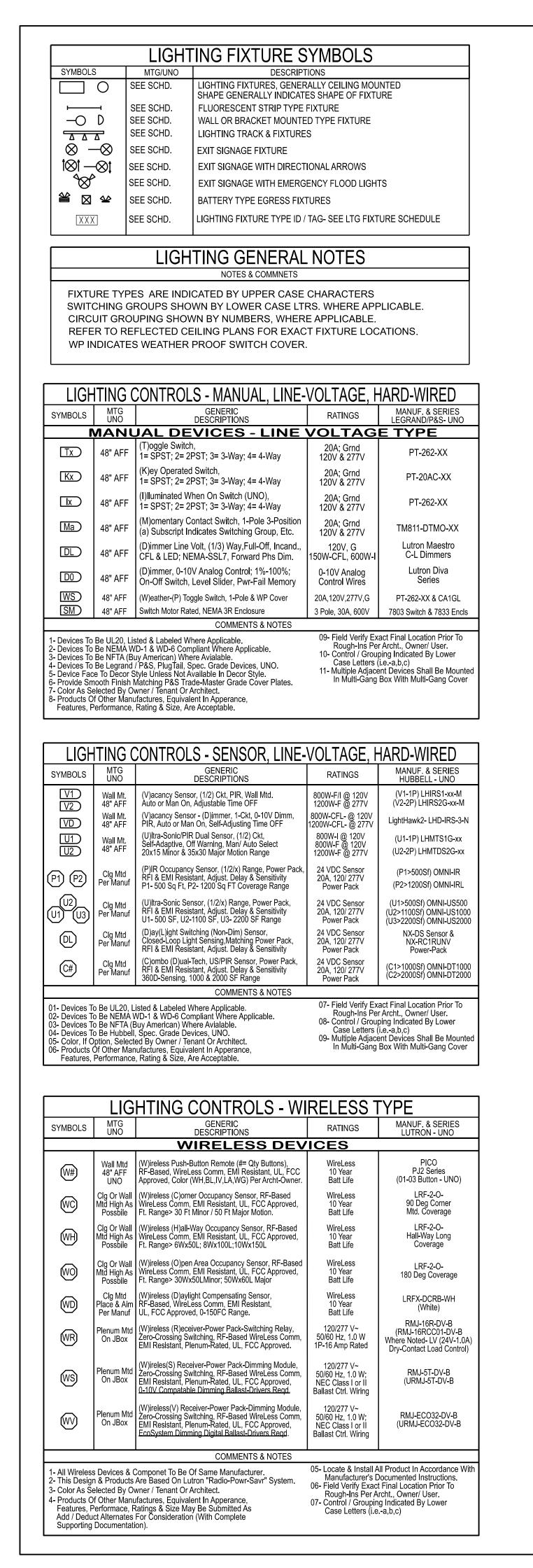
AA Project Base Quote Shall Be Base

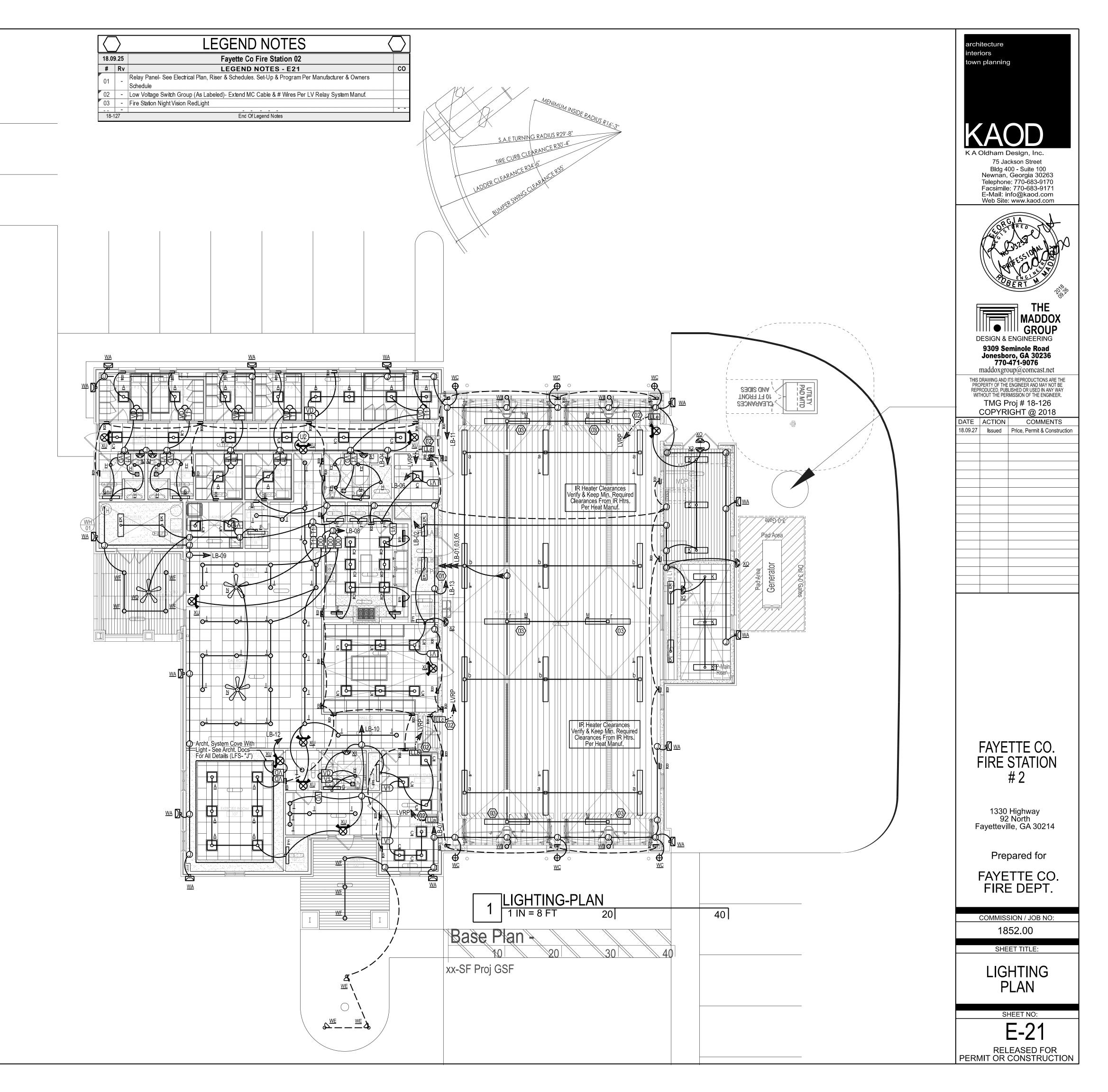
End Of Lighting Fix ture Schedule - See Lighting Criteria

PBC- Provided By Contractor SBO- Selected By Owner

MADDOX GROUP INC.

j:	Fayette Co Fire Station 02		LIGHTIN			HEDU	JLE		18.09.25	
: ct	Fayetteville, GA. 30241 General Lighting	Ttl Mean	Lamp	KA Oldham Desig Ballast-Driver	Po	wer	Mount.	Item	Const Manufacturer	Revs
)	Fixture Descriptions Center Lens Fixt, 2x2- LED Lamp, Curved Prismatic	Lumens	Qty & Type	<b>T ype</b> 0-10V 1%-Dimm;	V UNV	VA	Notes	Notes	Series / Model Columbia: LCAT-22-80CRI-	#
•	Acrylic Lenses, 5-Yr Warranty, Dimming To 1%.	3,616	35k-CCT	10%-THD; 0.95PF	120- 277	32	FIC	-	35k-HLHE- G-Curve-NoAir- ED1-Unv	-
	LED Step Light, Die-Cast Housing, Die-Cast Aluminum Cover, Frosty Glass Diffuser, Vandal-Resistant Hardware, Mounts On Standard J-Box. Wet Location Labeled. Cover Finish> Silver; Diffuser Color > RED	160	LED, 80-CRI, 35k-CCT	LED Driver & Power Supply Per Manuf	UNV- 120/ 277	3	Wall Mtd 18" AFF UNO		Lumux Ltg, SL100 Series: SL100-LED- RedLED, Silver Finish	-
	Center Lens Fixt, 2x2- LED Lamp, Curved Prismatic Acrylic Lenses, 5-Yr Warranty	3,200	LED, 80-CRI, 35k-CCT	Non-Dimm; 10%- THD; 0.95PF	UNV 120- 277	29	FIC	-	Columbia: LCAT-22-80CRI- 35k-ML- G-Curve-NoAir-E- Unv	-
	Center Lens Fixt, 2x2- LED Lamp, Curved Prismatic Acrylic Lenses, 5-Yr Warranty (Kitchen Area)	3,200	LED, 80-CRI, 35k-CCT	Non-Dimm; 10%- THD; 0.95PF	UNV 120- 277	29	FIC	-	Columbia: LCAT-22-80CRI- 35k-ML- G-Curve-NoAir-E- Unv	-
	Under-Cabinet, LED, Steel Housing & UV-PolyCarb. Lens, Non-Dimm, 34-Long (1,300-L, 14W); 3-Wire Cord-Set (CS)	~ 450 Lu/Ft	LED, 83-CRI, 35k-CCT	Fixed; 10%- THD; 0.95PF	120V	15	Under Cabinet Face Wall	-	Elite-Oracle E-LED Series: EU-LED-34"-120V-35k-WH, CS	-
	24L Wall Mtd With Occ-Sensor, LED, White Acrylic Diffuser, Steel Housing, End-Caps & Motion-Sensor	2,000	LED, 90-CRI, 35k-CCT	LED Driver, 20% THD, 0.9-PF	UNV 120- 277	23	WM Over Mirror Or Door	-	Elite-Oracle OW1B-LED Series: 02Ft-OW1B-LED- 2000Lu-DIM10-Mvolt-	-
l	32"L, 2.75"W, 2.5"D, LED, Vanity Wall. Sconce Fixture, ADA Complialnt, White Acrylic Diffuse & Satin Nickel Hardware, Dimmable To 1%	1,751 Lu	LED, 90-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	120	20	Horz Wall Htg Per Archt		35kCCT-85CRI-MS-FM105 Oxygen Apollo Series: 3-525- 24 Dimm	
	4 In. Wet-Location IC_Housing Shower Lite, LED, Smooth Frost Lens & White Trim Ring, 5-Yr Warranty.	600	LED, 90-CRI, 35k-CCT	Fixed; 10%- THD; 0.95-PF	MV 120V 277V	11	FIC	-	Elite-MaxiLume: H-LED2- 41C + LED2-1437-600L-MD- 35K-90C-CL-WH	-
	06 In.LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector & Trim Ring, Damp/Wet Location, 5-Yr Warranty, Wide Distb; Dimmable To 1%	4,000	LED, <b>90</b> -CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	MV 120V 277V	55	FIC		Elite-MaxiLume: HH6-LED- 4000Lu-Dim1%-MVolt- WDdistb-35K-90+CRI-6501- CL-WH	-
	Architectural Cove & Light System FBO-IBC, Furnished Complete With Lamps & All Components & Hardware. Coordinate With Owner, Electrical To Hook-Up Per Manuf.	1,450 Lumn / Ft (Verify)	By Manuf With Fixture; 85-CRI; 35k-CCT	Fixed / 0-10V Dimm To 01%; 10%-THD; 0.95PF	UNV 120- 277	13.5 Watts / Ft (Verify)	Per Archt / Interiors (65 Ft- Verify)		Furnished-By-Others & Installed-By-Contractor (FBO- IBC)(Basis: Vode Zip-Wave- 707)	-
	LED 4 Ft, Enclosed & Gasketed Fiberglass, Non-Porus Gasketting, Wet-Location, High-Impact Frosted Acrylic Lens, SS Latches & Mounting Hardware, Occ. Sensor	4,688 Lum	LED, 85-CRI, 35k-CCT	Fixed; 10%- THD; 0.95PF	UNV 120- 277	42	SM-PH	-	Columbia Series <b>LXEM</b> 4 Ft, 35K, ML-Lumen, RFA, ED, UV, SSL, TP + Options As Needed +Occ-Sensor	-
	LED 8 Ft, Enclosed & Gasketed Fiberglass, Non-Porus Gasketting, Wet-Location, IP67, High-Impact Frosted Acrylic Lens, SS Latches & Mounting Hardware	20,223 Lum	LED, 85-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120- 277	183	SM-PH	-	Columbia Series <b>LXEM</b> 8 Ft, 35K, XL-Lumen, RFA, ED1, UV, SSL, TP + Options As Needed	-
	LED 8 Ft, Enclosed & Gasketed Fiberglass, Non-Porus Gasketting, Wet-Location, IP67, High-Impact Frosted Acrylic Lens, SS Latches & Mounting Hardware, RED LIGHT / DIFFUSER	20,223 Lum	LED, 85-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120- 277	183	SM-PH	-	Columbia Series LXEM 8 Ft, 35K, XL-Lumen, RFA, ED1, UV, SSL, TP + Options As Needed; RED LIGHT / DIFFUSER	
	Paddle Fan, 52 Inch Dia, 5-Blade, Reversable, Variable Speed With Matching On-Off-Revs-Speed Control, No Light, Finish & Mtg. Heigth Per Architect.	NA NA		NA	NA 120 50		СМ		Fanmation Aire-Décor BP200 Or Equal By Casablancal or Modern Fan Co	-
xt )	Wet-Location Outdoor Lighting Fixture Descriptions	Ttl Mean Lumens	Lamp Qty & Type	Ballast-Driver Type	Po V	wer VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs <u>#</u>
	Small UL-Wet-Location, LED Architectural Geo-Shaped Wall-Pak; Vandal-Resistant Die-Cast Aluminum, Full-Cut-		LED, 85-CRI,	Fixed; 10%-	UV		WM As High		Hubbell Geo Series: QSP1 -	-
А З	<ul> <li>Off, Dark-Sky; Bronze Finish.Verify Final Mtg, Color- Finish With Architet-Owner Prior To Ordering.</li> <li>06 In.LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector &amp; Trim Ring, Damp/Wet Location, 5-Yr</li> </ul>	2,900 4,000	40k-CCT LED, 90-CRI, 35k-CCT	THD; 0.95PF Fixed; 10%- THD; 0.95PF	120- 277 MV 120V	28 55	Possible, Per Archt FIC	-	12LED-30-Watt-4k-3-Distb- UNV-DB-Finish Elite-MaxiLume: HH6-LED- 4000Lu-NonDim-MVolt- WDdistb-35K-90+CRI-6501-	-
C	Warranty, Wide Distb "Decorative Fire-Station Red-Light"; LED; Wall Mt Bent- Arm With RLM Style Shade, Red-Globe & Globe-Guard; Wet-Location Listed; HE2-10D-Shade, 10-Inch Radius	xxx Lumens Per	1x10 Watt LED, 85-CRI, 35k-	Fixed; 10%- THD; 0.95PF	277V 120V Only	10 ??	WM Per Archt,	_	CL-WH BaseLite- HE2-RE4-E19- LED-1/2-WG	
D	Arm; Verify Finish With Archt-Owner Outdoor Damp-Rated Orbiting Caged Fan Unit (No Light), 3-Blade, With Matching Clg-Wall Mount, Speed Control, Mtg. Heigth & Finish Per Architect-Owner. (Black, Bronze, Pewter, Nickle)	Manuf 847 CFM Air Flow	CCT No Light	Fan Mtd. 3- Speed Non- Reversing + Remote Wall Ctrl.	120	85	Verify Htg Stem Mtd, Verify Length		Fanmation Extraordinaire Unit Equal By Casablancal or Modern Fan Co	÷ -
E	Flag & Pole Small Flood Lt, LED, Wet Location Labeled, Tempered Glass Lens, Glare-Sheild, Yoke-Mount, Dark- Bronze Finish, Surge-Prot, Beam-Spread NEMA 3x3	4,957	LED, 70-CRI, 50k-CCT	LED Driver & Power Supply Per Manuf	UNV 120V 277V	52	Concrete Base, Aim		Hubbell Series FML-LED: 52, 5k, 3x3, UV, K, DB, SP	-
F	06 In LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector & Trim Ring, Damp/Wet Location, 5-Yr Warranty, Wide Distb	2,000	LED, 90-CRI, 35k-CCT	Fixed; 10%- THD; 0.95PF	MV 120V 277V	27	FIC		Elite-MaxiLume: HH6-LED- 2000Lu-NonDim-MVolt- WDdistb-35K-90+CRI-6501- CL-WH	-
ct	Exit Signs & Emergency Ltg. Units	Ft 1 FC	Unit Heads	Unit Battory		ver	Mount.	Item	Manufacturer	- Revs
	Fixture Descriptions White Thermoplastic Emerg. Ltg. Unit, 2-LED MR16 Heads, LII 924+NEPA101 Solf Diagnostic Testing, 3 Vr.	Avg	Qty & Type (2) 3.6V-3.6W	Battery 3.6-V Nickle-	V UNV- 120	<b>VA</b>	Notes Clg / WM	Notes	Series / Model	<u>#</u>
I	Heads, UL924+NFPA101 Self-Diagnostic-Testing. 3-Yr Full & 5-Yr Pro-Rata Warranty White Thermoplastic Emerg. Ltg. Unit, LED NiCad	na 80x06	LED-MR16, 50k Hr Life	Metal-Hydride	120, 277 UNV-	7.5	High	1	LightAlarms: LCA-2LED LightAlarms Grande Series:	-
2	Battery, UL924+NFPA101 Self-Diagnostic-Testing, Vandal-Resistiant. 3-YR Warranty	80x06 @15H	(2) 6.0 W-LED MR16 Heads	Lead-Calcium	120, 277	7.5	Clg / WM High	1	2Hd-GR12N4-(2) LD10-W/B- ID-T2-DL-CM/PM	-
)	Dual-Function LED Extr & Batt Egress Wall-Light, Die- Cast Alumn. Vandal-Resistiant, Wet Location, Self- Contained Norm-AC / Emerg. Batt. Unit, Photo-Cell; Heater & Self-Test-Monitor-Alarm, Color Per Archt- Owner- Black, Dk-Bronze, Off-White; Platinum-Gray	640	Wide / Forward Throw, Hi-Lumen Output LED	Nick-Metal Hydride	UNV- 120V- 277V	3 / 15(Htr)	WM Abv Door	1	LightAlarms Camray LED: CAM-ACSD-ColorCS-FT- HL-PC	-
J	Combo LED Exit Sign, 1/2 Face, 2-Adjust LED Heads, Univ Mtg. Batt-Back-Up, Red Ltr, Arrows As Needed, Self-Test-Alarm, 3-Yr. Warranty; White; (17W 13H 04D)	~ 89 OC, 07 MH	(2) 6.0 W-LED MR16 Heads; 80Cx15Hx06W	12 VDC- Lead- Calcium With Self- Diagnostics	UNV	5	UM	1	LightAlarms GRANDE Series: GR-1224M-R-U-W-2HD- LD10-ID	-
	Connect Emerg Battery To Unswitched Source		SPECIFIC IT	2-	Refer T	o Interio	Lighting Pla	ans & S	Schedules For Details.	
				4-			<u> </u>			
о- С-	Misc Abbrevations Furnished By Owner Complete U.N.O.		Lamp . CRI	Ballast / Driver T Color Rending Ind		amp)	BFC-	Below	Mounting Terms Finished Ceiling	
C-	Fixt. Material Cost With Lamps & Hardware Complete Installed Complete By Contractor, U.N.O.		xx K Lum mA	Kelvin (Lamp Colc Lumens (Lamp Lig Milli-Amp (LED Dr	or) Iht Outpu	it)	CB- FIC- FIG-	Concr Flush	ete Base- See Details In Ceiling In Grade	
	Provided By Contractor		PS STA	Programmed Start Self-Test & Alarm			PH-		Hung,Htg As Ntd; Per Archt	
0-	Selected By Owner		RS THD	Rapid Start Total Harmonic Dis	strotion N	/lax.	SM- WM-		e Mtd On Ceiling Or Structure ltd- Htg As Noted; Per Archt	
4	AL1 Project Base Quote Shall Be Based On The Lighting As S			APPROVAL I	REQU	EST				
3	Lighting Products Of Other Manufactuers May Be Submitte From The Specified Fixtures Must Be Denoted.	ed As Add	•		abeled F	ixtures a	& Lampe Da	ata, Cut	-Sheets & Any Variations	
1	A Complete Submittal Is Required, Including Cover-Page, <b>Reviewed Stamp" Of The Supplier, Sub-Contractor</b> Each Items Cut-Sheet Shall be Labeled With Specific Choi	Bill-Of-Ma & Genera	iterials, & Individua I Contractor. Fail	l Product Data. The lure To Do So Is (	Ground	s For Au	tomatic Re	ejectio	n Of Submittals.	





# PLUMBING SPECIFICATIONS

THE WORK UNDER THIS SECTION SHALL BE TO PROVIDE A COMPLETE PLUMBING SYSTEM. ALL ITEMS OF WORK, OF COST AND EXPENSE OF ANY NATURE WHATSOEVER BELONGING WITH OR NECESSARY TO THE COMPLETION OF WORK CALLED FOR IN THIS SPECIFICATION OR IN THE CONTRACT DOCUMENTS ARE HEREBY SPECIFIED TO BE INCLUDED IN THIS CONTRACT.

ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE, AS WELL AS ANY LOCAL CODES AND ORDINANCES.

WARRANTY:

SCOPE:

EQUIPMENT FURNISHED SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. SUBMITTALS:

ALL MATERIALS AND EQUIPMENT WHICH THE CONTRACTOR PROPOSES TO FURNISH SHALL BE SUBMITTED FOR REVIEW. DATA SHALL BE COMPLETE IN ALL RESPECTS AND SHALL REFERENCE, WHERE APPLICABLE, TO THE UNIT SYMBOL UTILIZED ON THE DRAWINGS AND SPECIFICATIONS.

PIPING:

ALL SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 DWV PVC WITH DRAINAGE TYPE FITTINGS.

DOMESTIC WATER PIPING INSTALLED ABOVE GRADE SHALL BE TYPE L COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS AND LEAD-FREE SOLDER JOINTS. PIPING INSTALLED BELOW GRADE SHALL BE TYPE K COPPER, INSTALLED WITHOUT ANY JOINTS BELOW THE FLOOR SLAB.

VALVES:

VALVES FOR DOMESTIC WATER SYSTEM: GATE VALVES SHALL HAVE BRONZE BODY, RISING STEM, SOLID WEDGE, THREADED BONNET, AND SOLDER ENDS FOR 125# SWP. WHERE GATE 2" AND SMALLER ARE SPECIFIED, QUARTER-TURN FULL PORT BALL VALVES MAY BE SUBSTITUTED.

CLEANOUTS:

PROVIDE CLEANOUTS IN SOIL AND WASTE LINES AS SHOWN, AS REQUIRED BY THE GOVERNING CODE, AT THE BOTTOM OF EACH EXPOSED FIXTURE TRAP WHICH IS NOT INTEGRAL WITH THE FIXTURE, AT THE END OF EACH BRANCH DRAINAGE LINE, AT EACH CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES, AT THE FOOT OF EACH SOIL AND RAINWATER STACK, AND IN HORIZONTAL DRAIN LINES AT INTERVALS OF NOT MORE THAN 75'.

FLOOR DRAINS:

FLOOR DRAINS, INCLUDING SHOWER DRAINS, SHALL BE EQUAL TO JOSAM MODEL 30000-A. EACH FLOOR DRAIN, EXCEPT SHOWER DRAINS, SHALL HAVE A TRAP PRIMER.

TRAPS:

PROVIDE TRAPS FOR ALL FIXTURES AND FLOOR DRAINS, EXCEPT AS NOTED OTHERWISE. SET TRAPS TRUE AND LEVEL. PROVIDE EXPOSED TRAPS WITH BRASS CLEANING SCREWS.

INSULATION:

PIPE INSULATION SHALL BE ONE-PIECE FIBROUS GLASS SECTIONAL PIPE INSULATION WITH FACTORY APPLIED GLASS REINFORCED ALUMINUM FOIL AND WHITE KRAFT PAPER FLAME RETARDANT VAPOR BARRIER JACKET. LONGITUDINAL JACKET LAPS AND BUTT STRIPS SHALL BE SELF-SEALING. INSULATE ALL NEW DOMESTIC WATER PIPING WITH MINIMUM 1" THICK INSULATION.

PLUMBING FIXTURES:

ALL FIXTURES SHALL BE COMMERCIAL GRADE VITREOUS CHINA, ENAMELED CAST IRON, OR STAINLESS STEEL, AS INDICATED. FOR EACH FIXTURE, PROVIDE CHROME PLATED BRASS STOP VALVES ON BOTH COLD AND HOT WATER SUPPLIES, WITH STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES FROM THE STOP VALVES TO THE FIXTURES. EACH SINK AND LAVATORY SHALL ALSO BE PROVIDED WITH A 17 GAUGE, CHROME—PLATED BRASS P—TRAP, WITH CLEANOUT PLUG. ALL FAUCETS AND SHOWER VALVES SHALL BE CHROME PLATED BRASS CONSTRUCTION. (REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC MODEL NUMBERS FOR SOME FIXTURES.)

FIXTURES SHALL BE AS FOLLOWS:

F1 – WATER CLOSET (ACCESSIBLE): FLOOR MOUNTED, ELONGATED WHITE VITREOUS CHINA, 16.5" HIGH RIM, 1.28 GPF MANUAL FLUSH VALVE, OPEN FRONT SEAT, ADA COMPLIANT. AMERICAN STANDARD, KOHLER, ELJER OR CRANE.

F2 – WATER CLOSET: FLOOR MOUNTED, ELONGATED WHITE VITREOUS CHINA, 15" HIGH RIM, 1.28 GPF MANUAL FLUSH VALVE, OPEN FRONT SEAT, ADA COMPLIANT. AMERICAN STANDARD, KOHLER, ELJER OR CRANE.

F3 – LAVATORY (ACCESSIBLE): WHITE VITREOUS CHINA, OVAL SELF-RIMMING, COUNTERTOP TYPE, AMERICAN STANDARD, KOHLER, ELJER OR CRANE, ADA COMPLIANT. FAUCET SHALL BE CHROME PLATED BRASS, SINGLE LEVER TYPE, WITH STANDARD SPOUT, 0.5 GPM AERATOR AND GRID DRAIN, AMERICAN STANDARD, CHICAGO, KOHLER OR MOEN. ADA COMPLIANT.

F4 – SINGLE COMPARTMENT LAUNDRY SINK: MINIMUM 18 GAUGE STAINLESS STEEL, SELF-RIMMING COUNTERTOP SINK WITH SINGLE 21"X16"X10" DEEP BOWL, CHROME PLATED BRASS DRAIN WITH REMOVABLE CRUMB CUP, CHROME-PLATED BRASS P-TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH SWIVEL SPOUT.

F5 – TWO COMPARTMENT KITCHEN SINK: MINIMUM 18 GAUGE STAINLESS STEEL, SELF-RIMMING COUNTERTOP SINK WITH TWO 13.5"X16"X8" DEEP BOWLS, CHROME PLATED BRASS DRAINS WITH REMOVABLE CRUMB CUPS, CHROME-PLATED BRASS P-TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH SWIVEL SPOUT AND PULL-OUT HOSE SPRAY.

F6 – (NOT USED)

F7 – MOP RECEPTOR: NOMINAL 36'X36'X12" DEEP MOLDED STONE BASIN WITH STAINLESS STEEL RIM GUARD AND CHROME PLATED BRASS GRID DRAIN. FAUCET SHALL BE WALL MOUNTED AT 36" AFF. FAUCET SHALL BE FAUCET SHALL BE CHROME PLATED BRASS WITH INTEGRAL SUPPLY STOPS, VACUUM BREAKER, BLADE HANDLES, HOSE THREADS, BUCKET HOOK AND TOP ANGLE WALL BRACE

F8 – SHOWER (ACCESSIBLE); (SHOWER STALL IS CERAMIC TILE.) PROVIDE PRESSURE BALANCED SHOWER VALVE, ADJUSTABLE, WALL MOUNTED SHOWER HEAD, HAND-HELD SHOWER HEAD ON 2' SLIDE BAR WITH SHOWER HEAD SELECTOR VALVE, AND SHOWER DRAIN EQUAL TO FLOOR DRAINS SPECIFIED ABOVE. ADA COMPLIANT. AMERICAN STANDARD, CHICAGO, KOHLER OR MOEN.

F9 – SHOWER; (SHOWER STALL IS CERAMIC TILE.) PROVIDE PRESSURE BALANCED SHOWER VALVE, ADJUSTABLE, WALL MOUNTED SHOWER HEAD, AND SHOWER DRAIN EQUAL TO FLOOR DRAINS SPECIFIED ABOVE. AMERICAN STANDARD, CHICAGO, KOHLER OR MOEN.

F10 – (NOT USED)

F11 – WASHER BOX: RECESSED, GALVANIZED STEEL HOUSING WITH METAL TRIM RING, 2" WASTE OUTLET AND QUARTER TURN BALL TYPE HOT AND COLD WATER STOP VALVES WITH HOSE THREADS. GUY GRAY MODEL BB200TS, OR EQUAL. WATER HEATER:

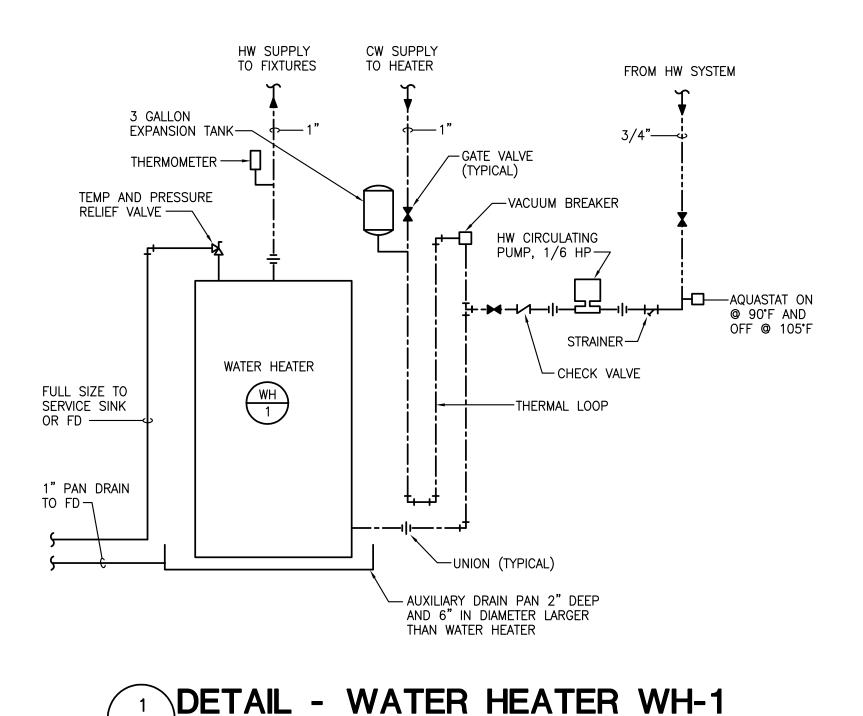
WATER HEATER SHALL BE HIGH EFFICIENCY, GAS FIRED, STORAGE TYPE, ENERGY EFFICIENT, COMPLYING WITH ASHRAE STANDARD 90.1, WITH MANUAL DRAIN VALVE AND ASME P&T RELIEF VALVE. HEATER SHALL BE PIPED AS SHOWN IN DETAIL 1/P101. CAPACITIES SHALL BE AS SCHEDULED ON THE DRAWINGS. HEATER SHALL BE A.O. SMITH, AS SCHEDULED, OR EQUAL STATE, OR RHEEM. SERVICE AIR COMPRESSOR:

AIR COMPRESSOR SHALL BE VERTICAL TANK MOUNTED, WITH TWO-STAGE COMPRESSOR, 80 GALLON RECEIVER, 7.5 HP MOTOR. CAPACITY SHALL BE 25.1 CFM AT 175 PSIG MAXIMUM PRESSURE. COMPRESSOR SHALL BE SCHULZ MODEL 7580VV30X-1, OR APPROVED EQUAL.

		NOTEC	RIM	COLD	WATER	НОТ	WATER	SOIL/WASTE	
MARK	FIXTURE	NOTES	HEIGHT	BRANCH	CONN.	BRANCH	CONN.	BRANCH	CONN
F1	WATER CLOSET (ACCESSIBLE)	1, 2, 5	16.5"	1"	1"	-	-	4"	4"
F2	WATER CLOSET	2, 5	15"	1"	1"	-	-	4"	4"
F3	LAVATORY (ACCESSIBLE)	1, 3, 7, 9	34"	1/2"	1/2"	1/2"	1/2"	2"	1-1/4"
F4	SINGLE COMPARTMENT LAUNDRY SINK	4, 7	34"	1/2"	1/2"	1/2"	1/2"	2"	1-1/2"
F5	TWO COMPARTMENT SINK (ACCESSIBLE)	1, 4, 7	34"	1/2"	1/2"	1/2"	1/2"	2"	1-1/2"
F6	(NOT USED)								
F7	MOP RECEPTOR	5, 8	12"	1/2"	1/2"	1/2"	1/2"	3"	3"
F8	SHOWER (ACCESSIBLE)	1, 10, 11, 12, 13	_	1/2"	1/2"	1/2"	1/2"	3"	2"
F9	SHOWER	10, 11	_	1/2"	1/2"	1/2"	1/2"	3"	2"
F10	(NOT USED)								
F11	WASHER BOX	6	36"	1/2"	1/2"	1/2"	1/2"	2"	2"
) HANDI	CAP ACCESSIBLE FIXTURE	5 FLOOR MOUNTED	FIXTURE	9 0.5 GPM TAMF	PER-PROOF AE	RATOR	13 SHOWER H	HEAD DIVERTER	VALVE
.) 1.28	GPF LEVER OPERATED FLUSH VALVE	6 WALL HUNG FIXTU	JRE	10 PRESSURE BAL	ANCED SHOWE				
3) SINGL	E LEVER FAUCET WITH STANDARD SPOUT	(7) COUNTERTOP FIXT	URE	1) ADJUSTABLE W	IALL MOUNT SH	HOWER HEAD			
) SINGL	E LEVER FAUCET WITH SWIVEL SPOUT	8 WALL MOUNTED F.	AUCET	12) ADJUSTABLE H	AND-HELD SH	OWER HEAD			
				-			1		

WATER HEATER SCHEDULE								
SYMBOL	HEATER SERVICE	HEATER TYPE	HEAT INPUT	STORAGE CAPACITY	RECOVERY RATE (GPH)	DISCHARGE TEMP (*F)	MANUFACTURER & MODEL	REMARKS
WH-1	DOMESTIC HOT WATER	GAS STORAGE	120 MBH	60 GAL	197 @ 70° RISE	110	A. O. SMITH BTH-120	

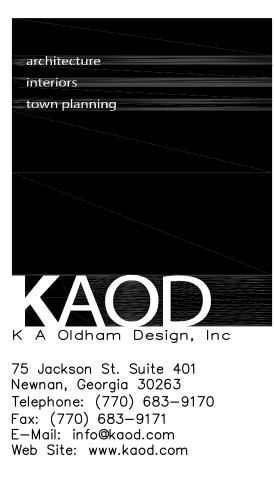
PUMPS								
SERVICE	TYPE	GPM	HEAD FT. H <sub>2</sub> O	RPM	MAX. H.P.	ELECTRICAL VOLTS/PH	MODEL	REMARKS
HOT WATER RECIRC	IN-LINE	5	3	1760	1/8	120/1	GRUNDFOS UP15-10B7	



P101 NOT TO SCALE

IN.	
4"	
2" 2"	
2"	

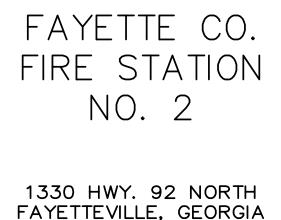
PL	.UMBIN	G LEGEND
YMBOL	ABBREVIATION	DESCRIPTION
	S,W	SOIL OR WASTE PIPE
	V	VENT PIPE
	CW	COLD WATER PIPE
	HW	HOT WATER PIPE
	HWC	HOT WATER CIRC. PIPE
	FS	FLOOR SINK
	FD	FLOOR DRAIN
@	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
M	GV	GATE VALVE
И	СКУ	CHECK VALVE
F4	STR	STRAINER
ılı	U	UNION
	_	CONNECT TO EXISTING
	AFF	ABOVE FINISHED FLOOR
	A/C	ABOVE CEILING
	(BF)	BARRIER FREE
	B/F	BELOW FLOOR
	B/G	BELOW GRADE
	F	PLUMBING FIXTURE
	VTR	VENT THRU ROOF



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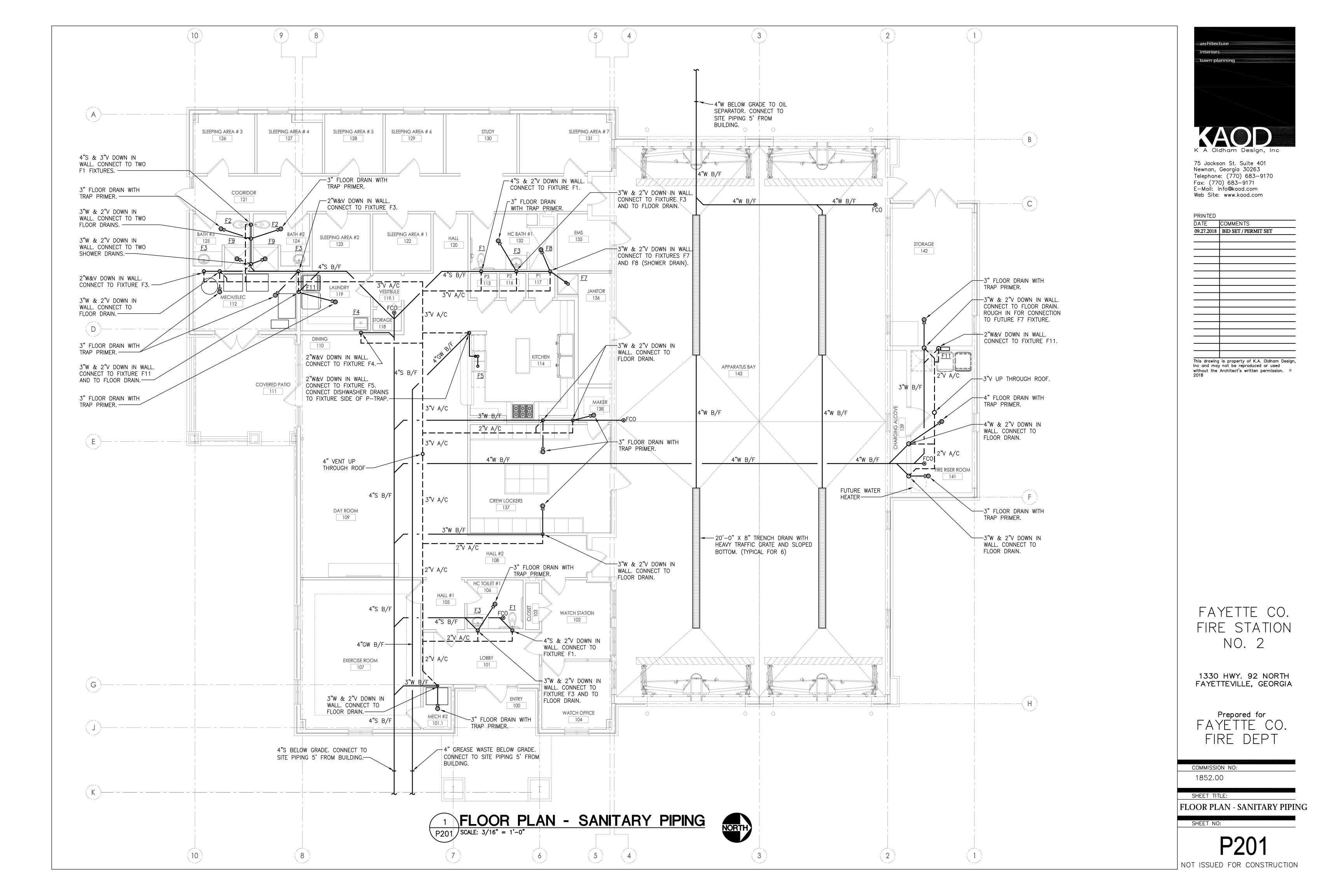
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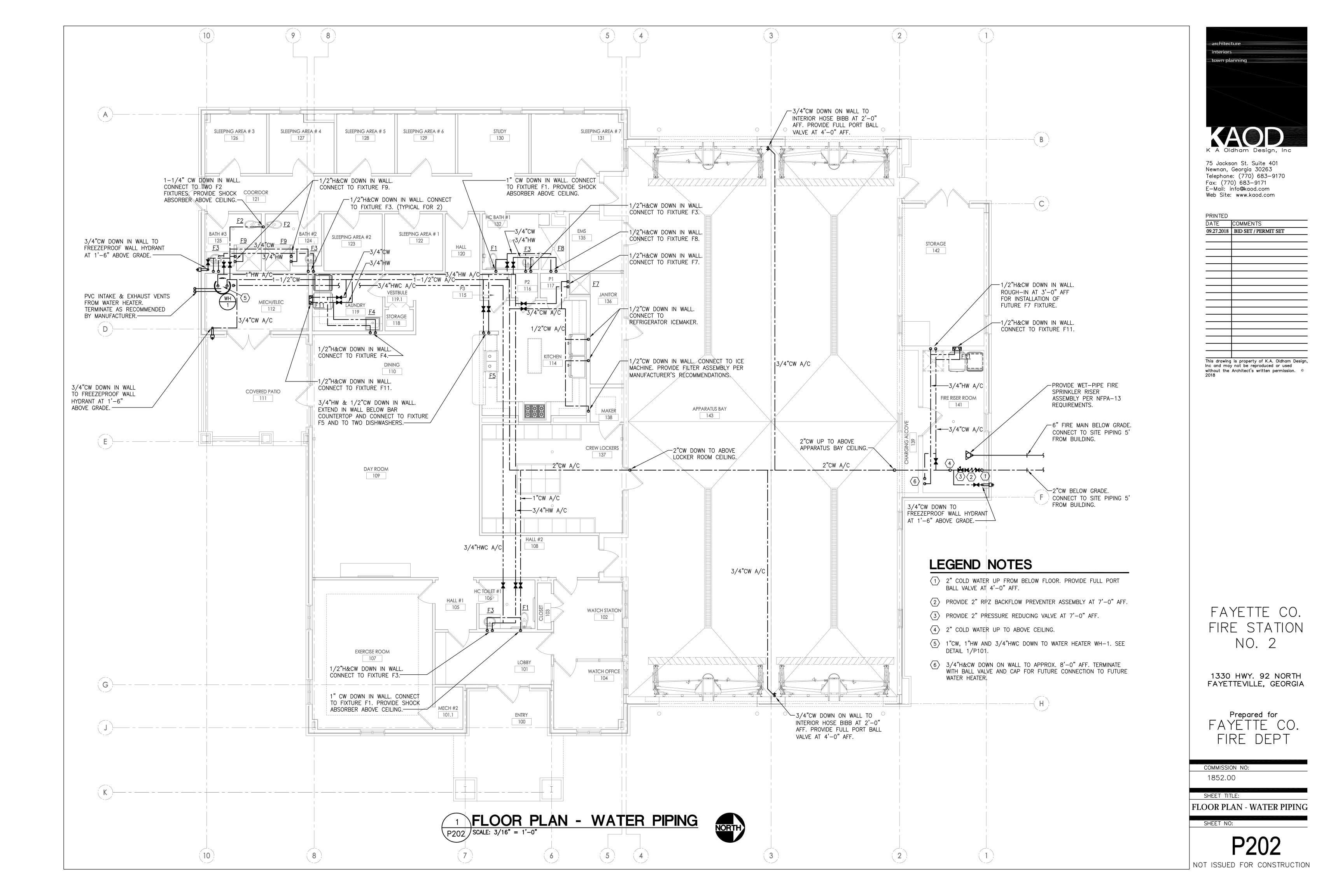
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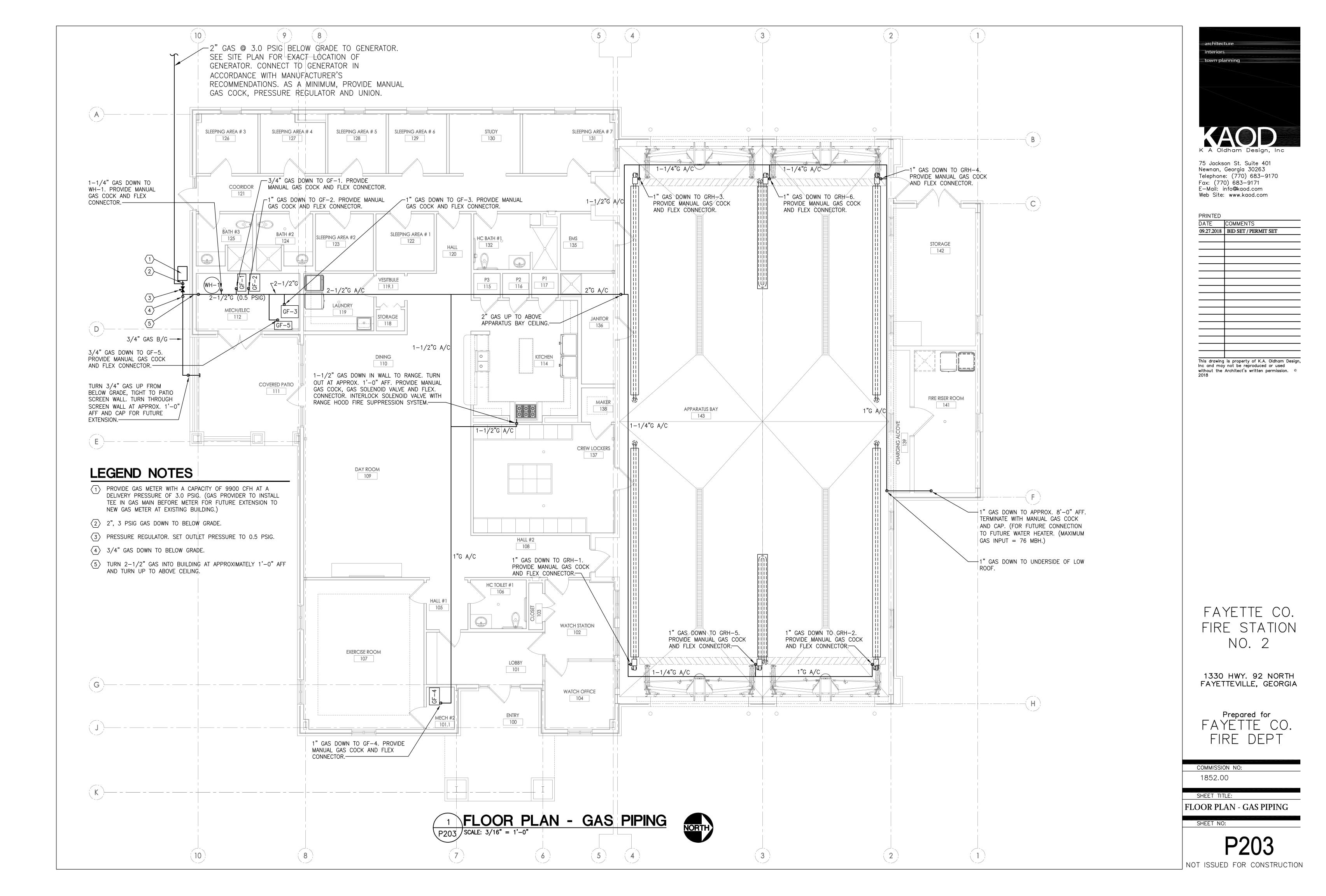
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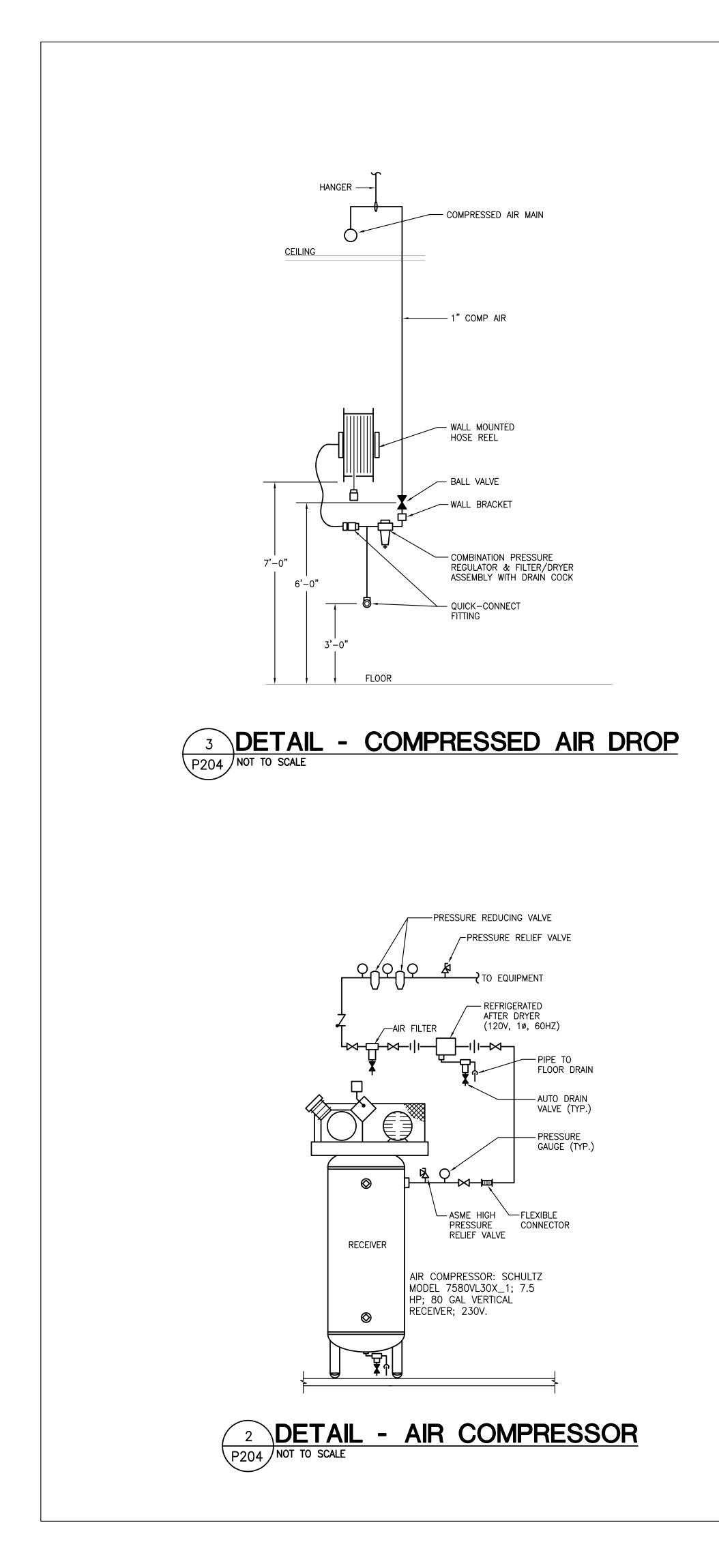
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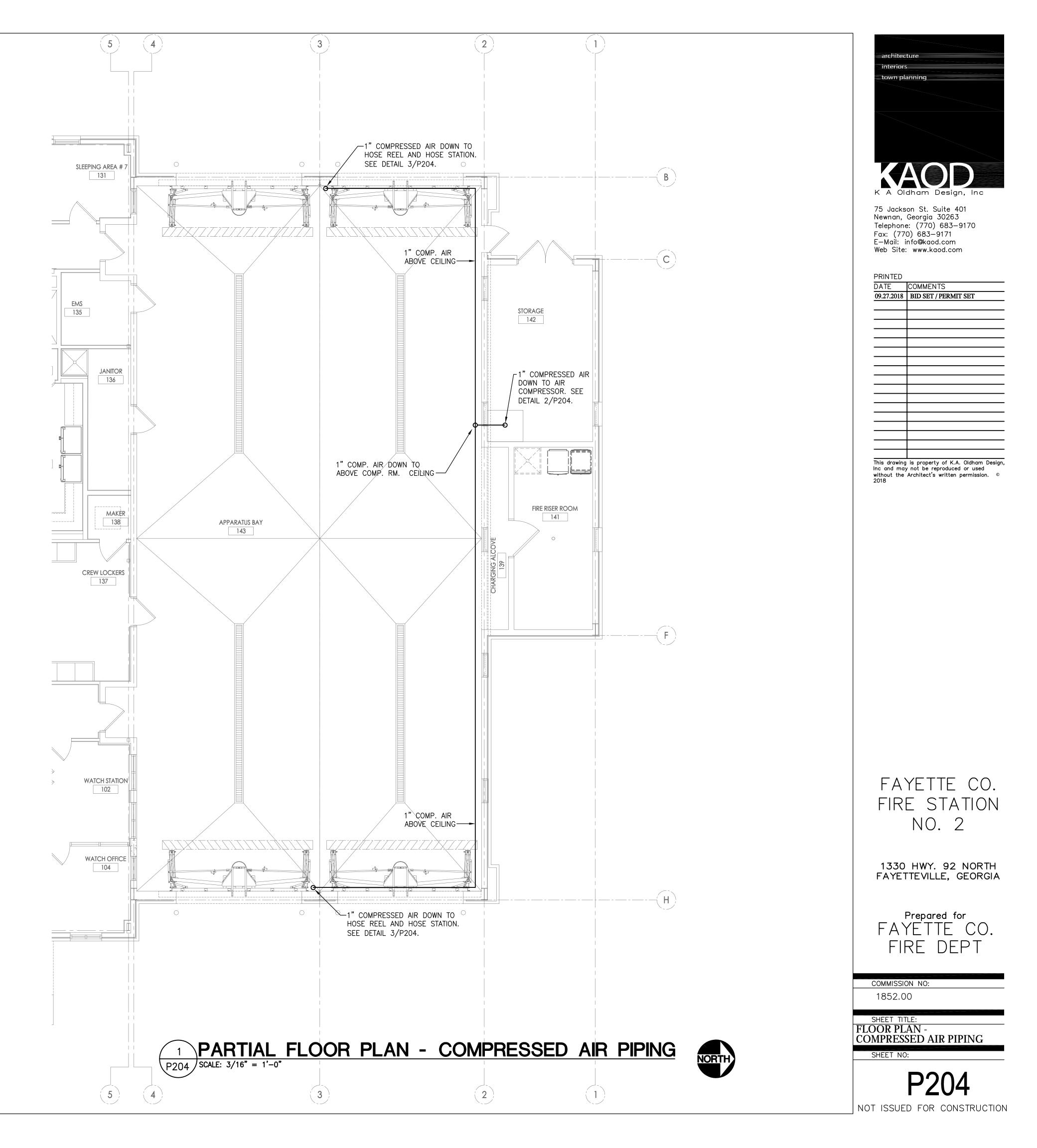
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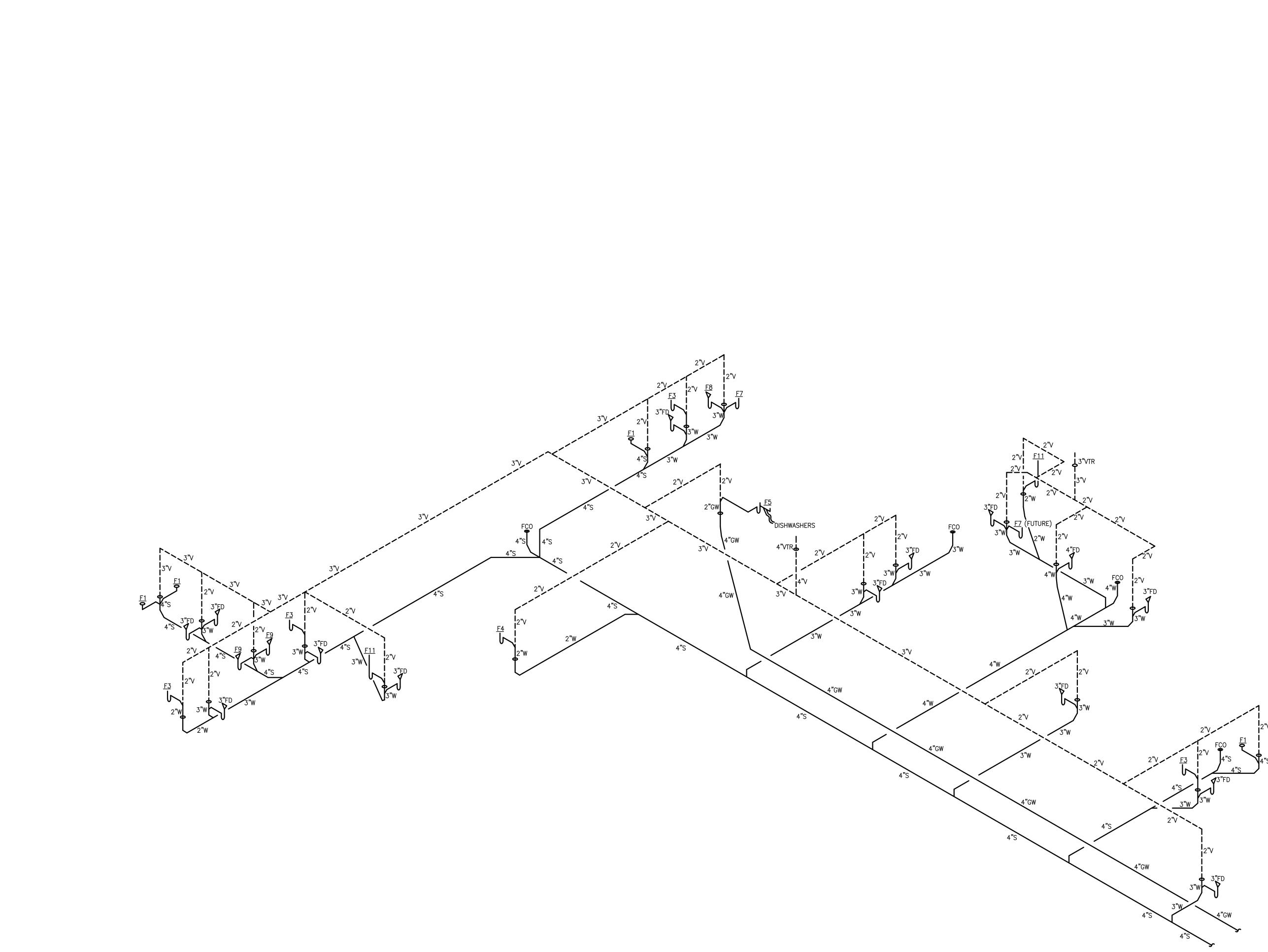














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