

NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA



OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Hays Cheatwood Consulting P.O. Box 250

ISSUE: 3.31.25 BID

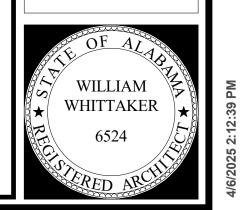
Pinson, AL 35126 205-942-0696

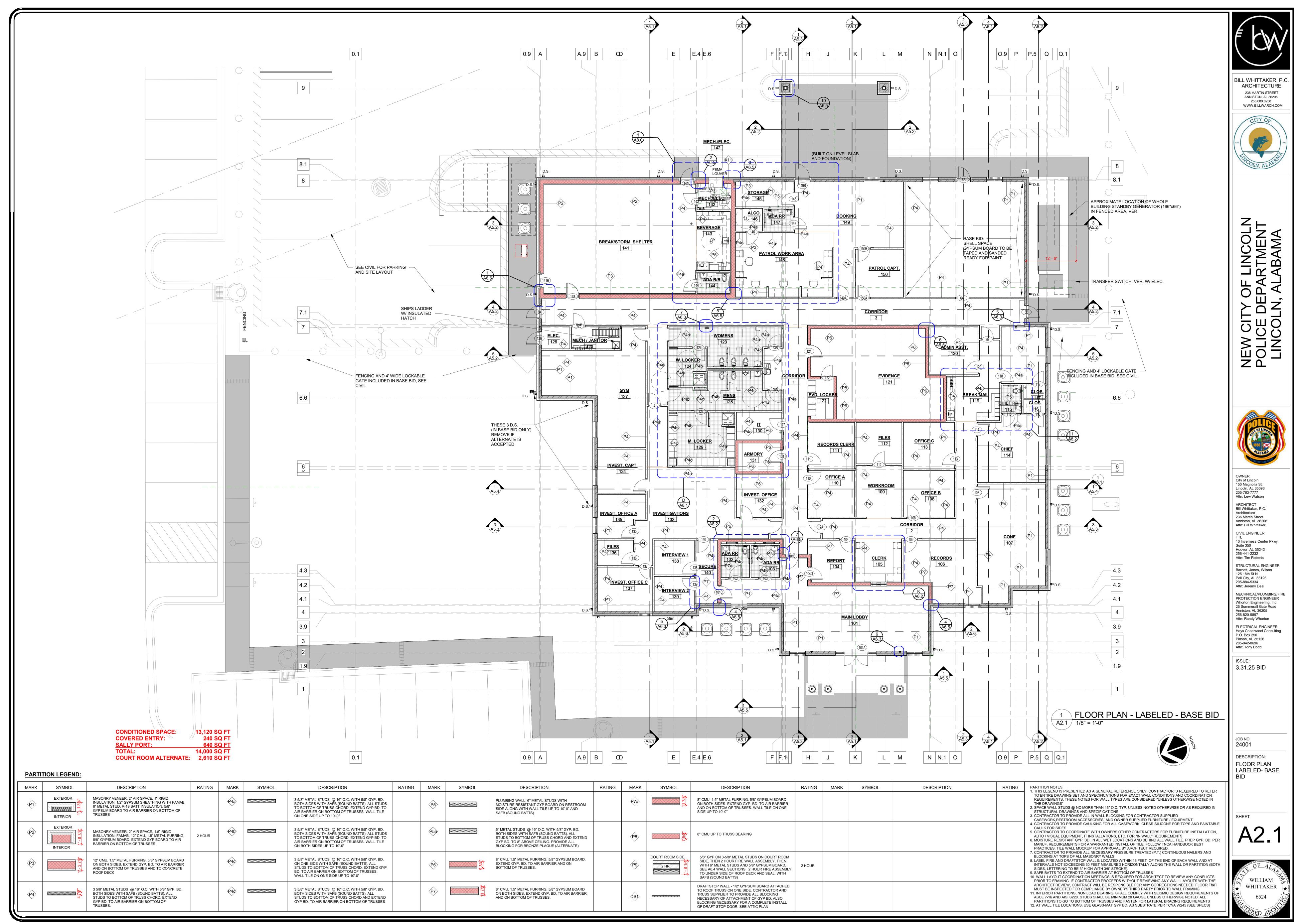
Attn: Tony Dodd

JOB NO.
24001

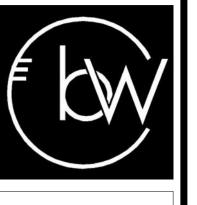
DESCRIPTION:
OVERALL PLAN

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Pell City, AL 35125
205-884-5334
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PROTECTION ENGINEER
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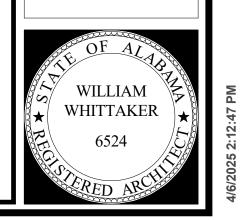
ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

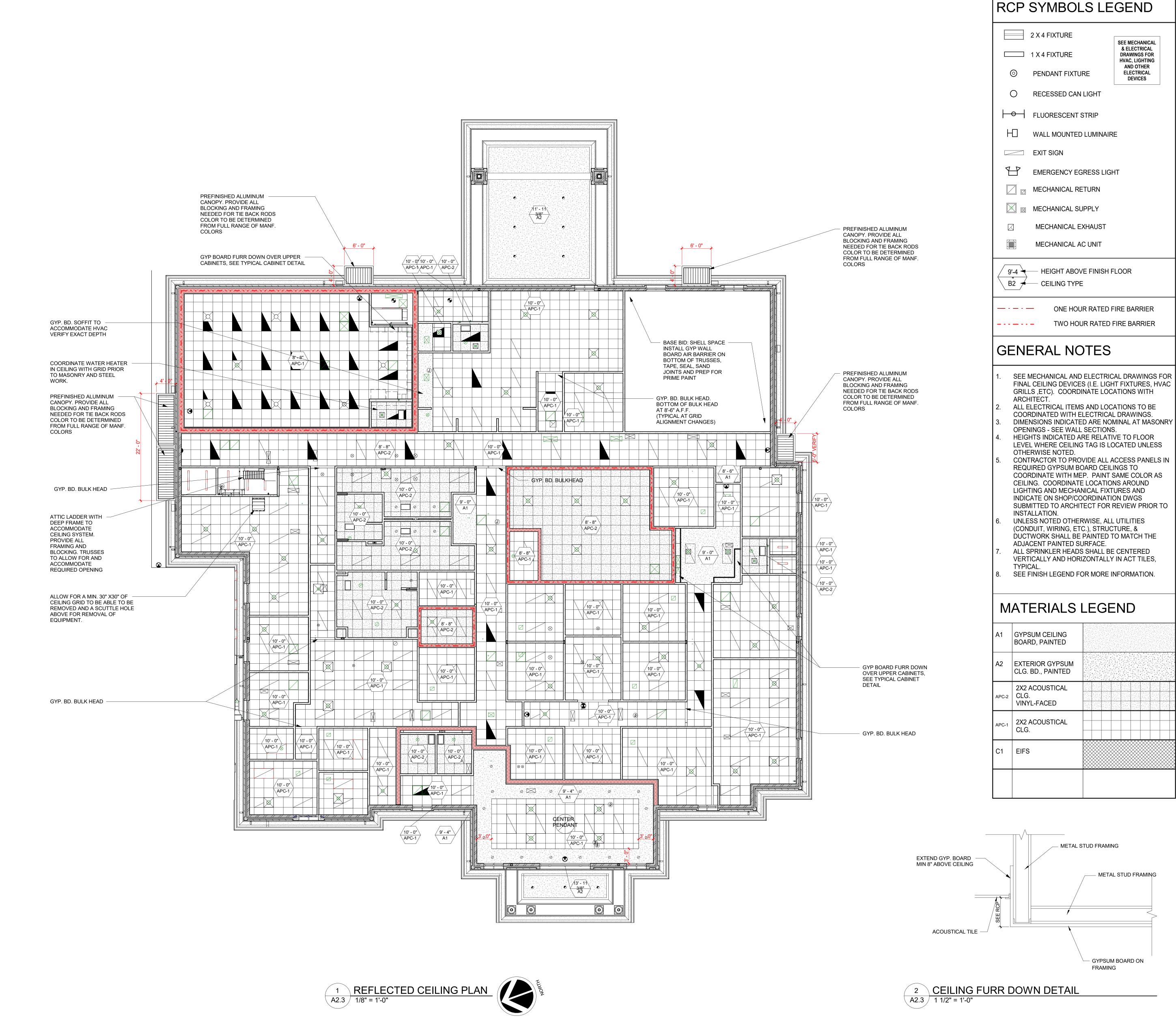
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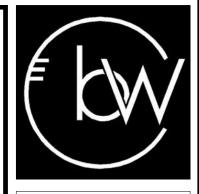
JOB NO.
24001

DESCRIPTION:
FLOOR PLAN
DIMENSIONEDBASE BID

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LINCOLN RTMENT ABAMA

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10 Inverness Center Pkwy

STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N

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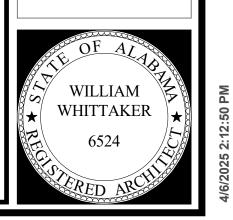
Pinson, AL 35126

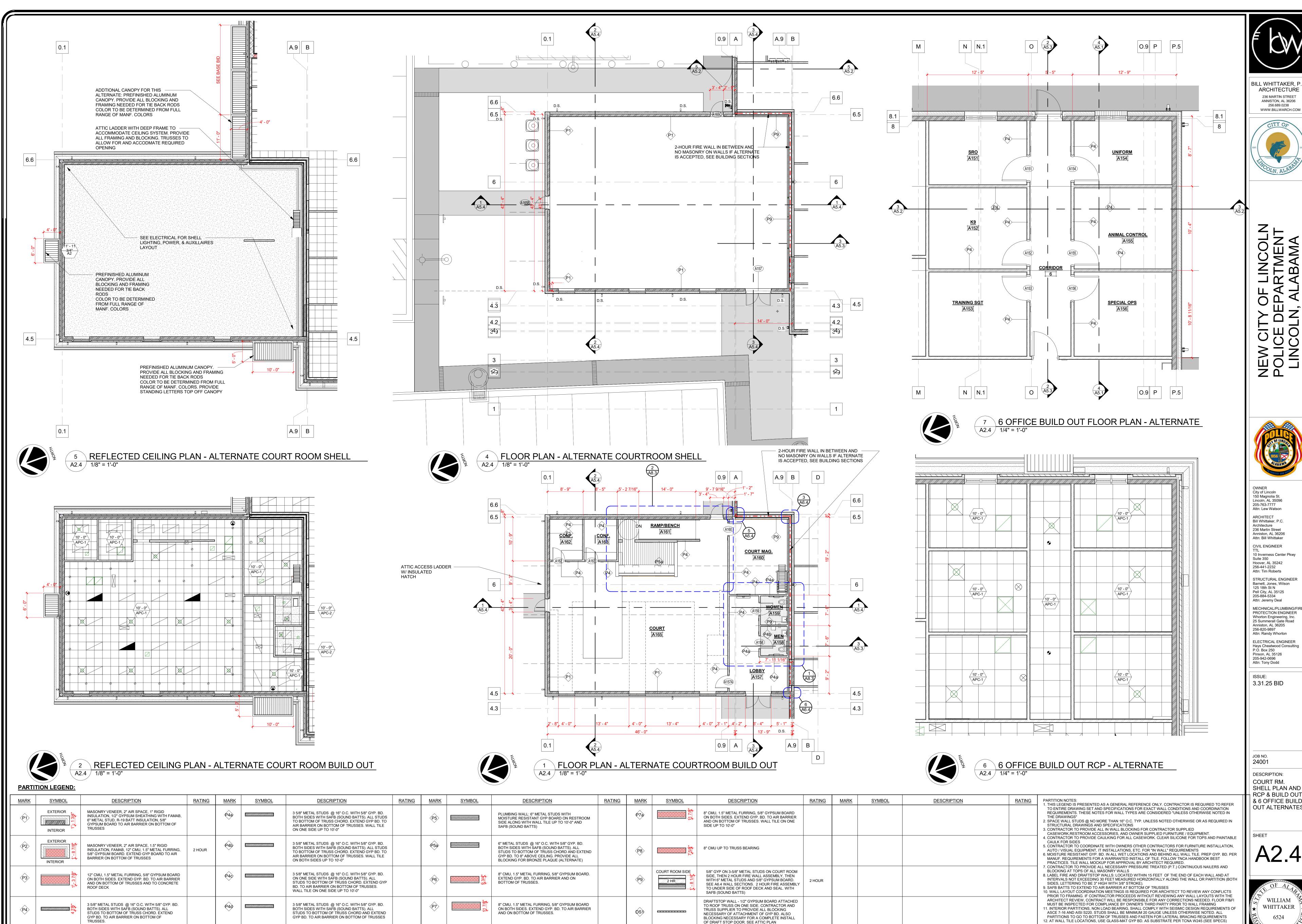
205-942-0696

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3.31.25 BID

JOB NO. 24001 DESCRIPTION: REFLECTED **CEILING PLAN-**BASE BID





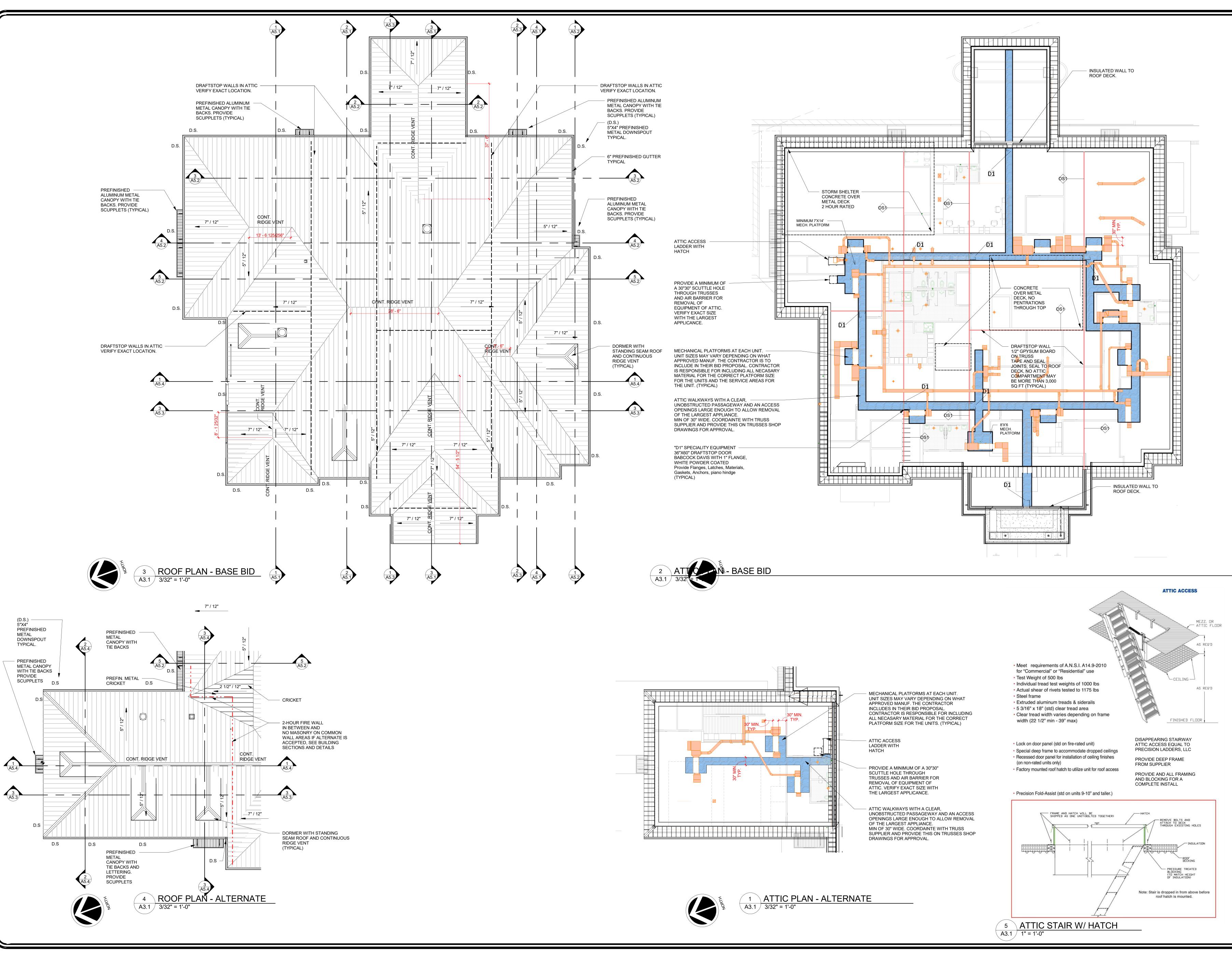


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Attn: Tony Dodd

DESCRIPTION: COURT RM. SHELL PLAN AND RCP & BUILD OUT & 6 OFFICE BUILD OUT ALTERNATES

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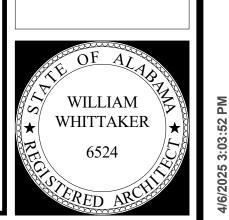
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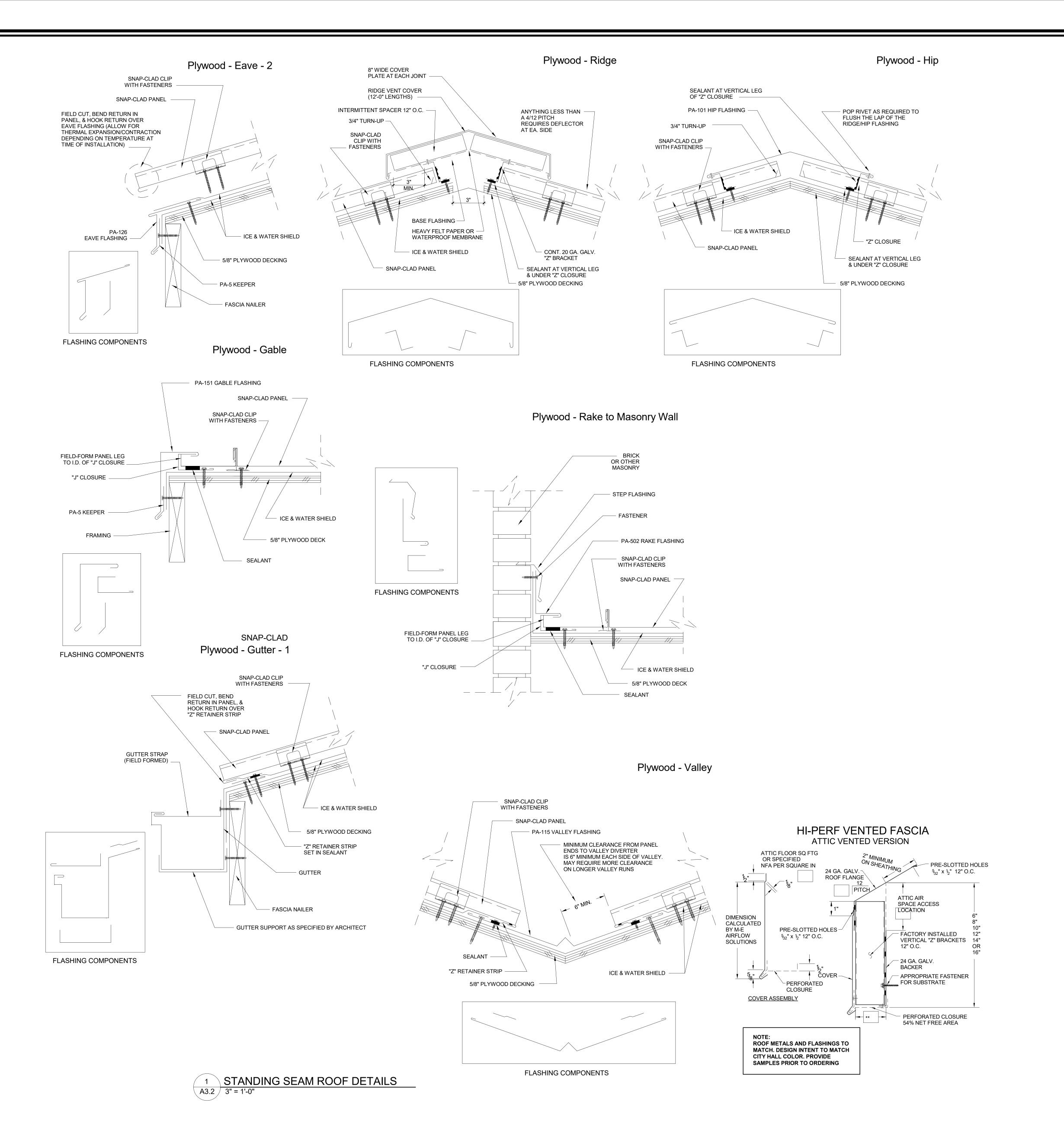
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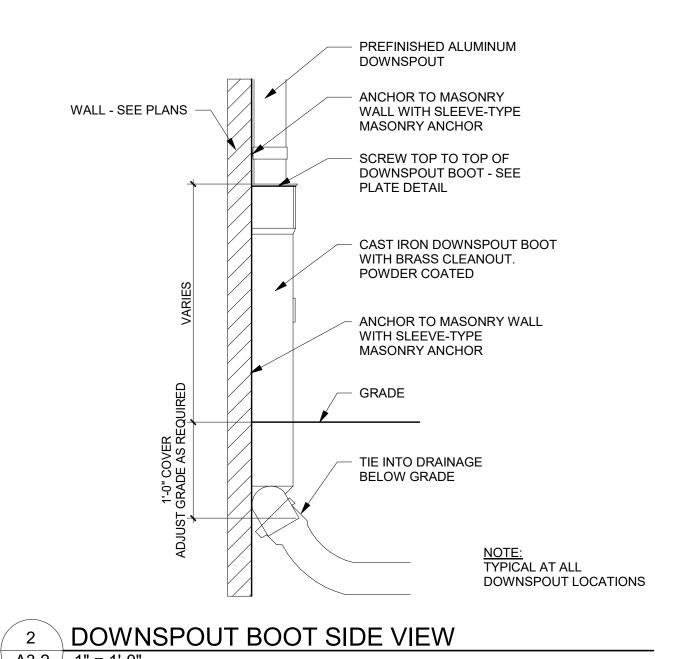
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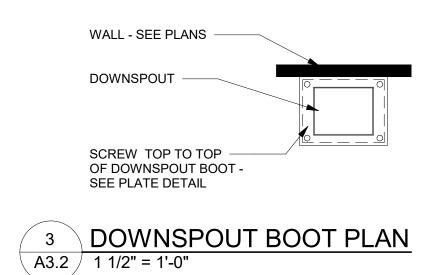
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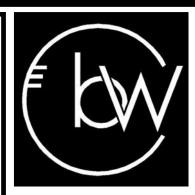
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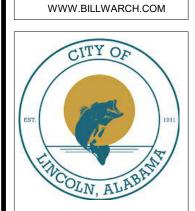












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JOB NO.
24001

DESCRIPTION:
ROOF DETAILS

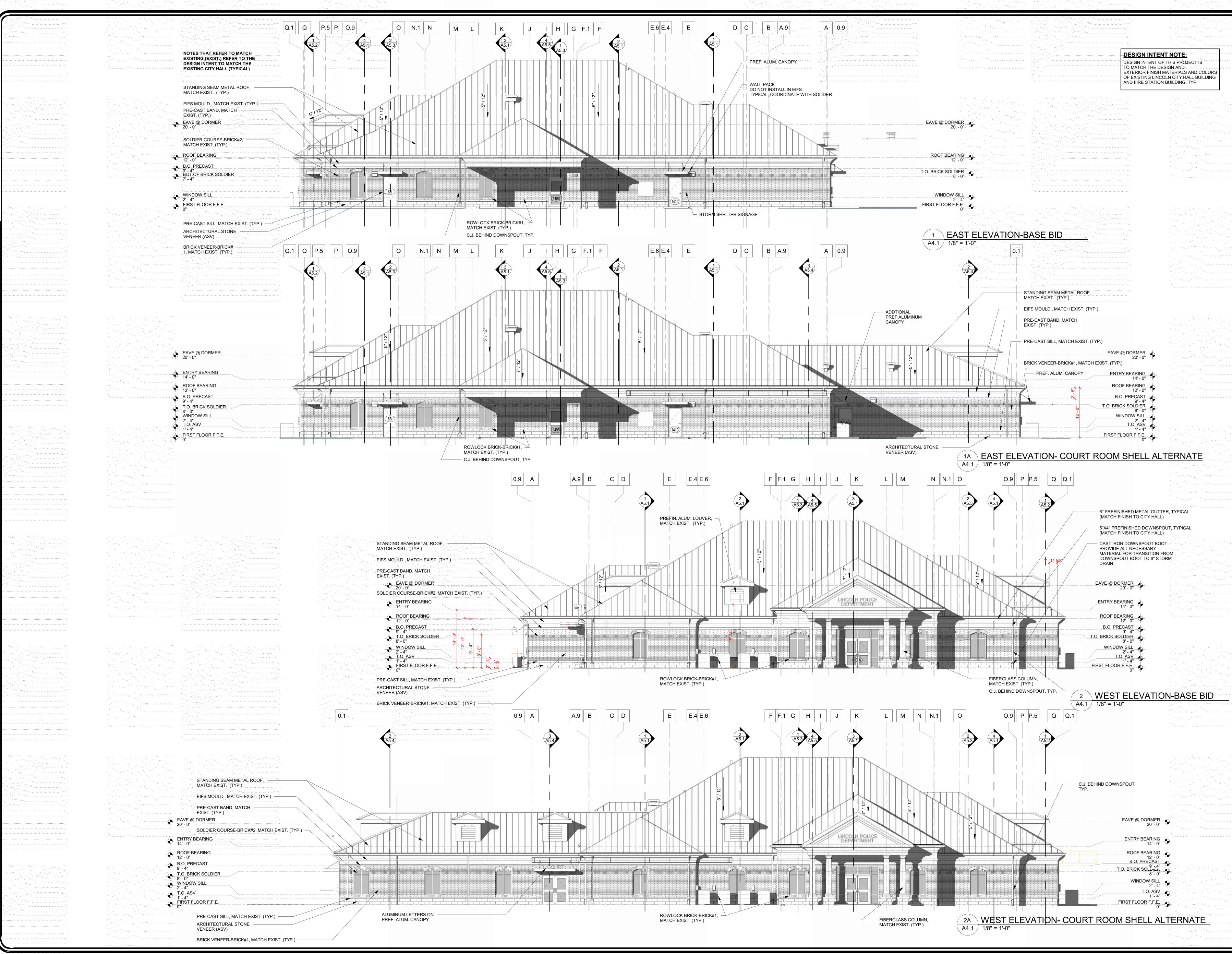
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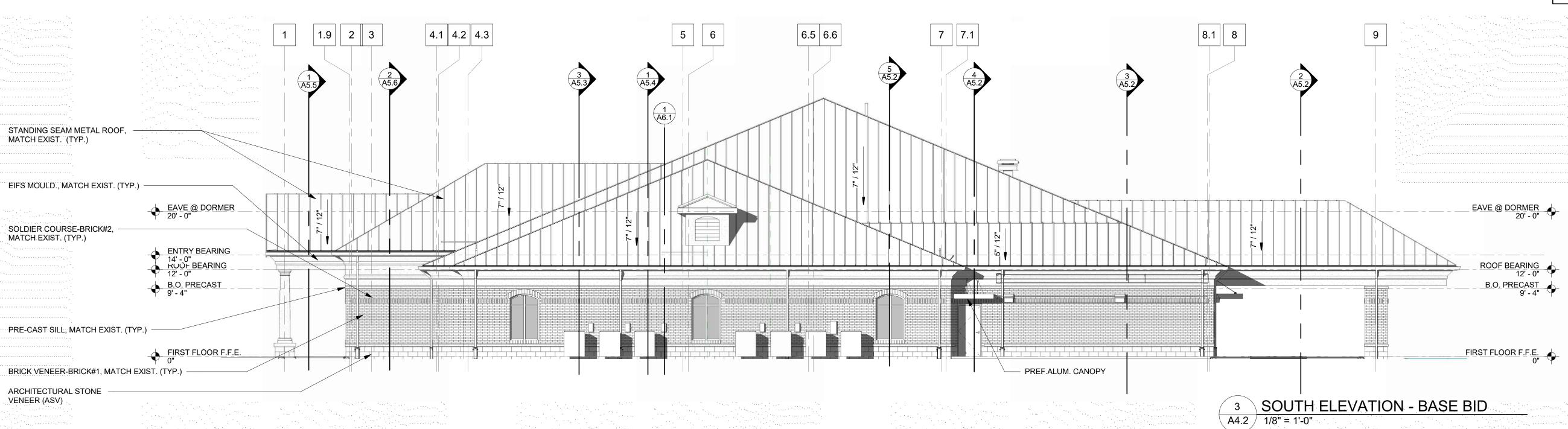
ISSUE: 3.31.25 BID

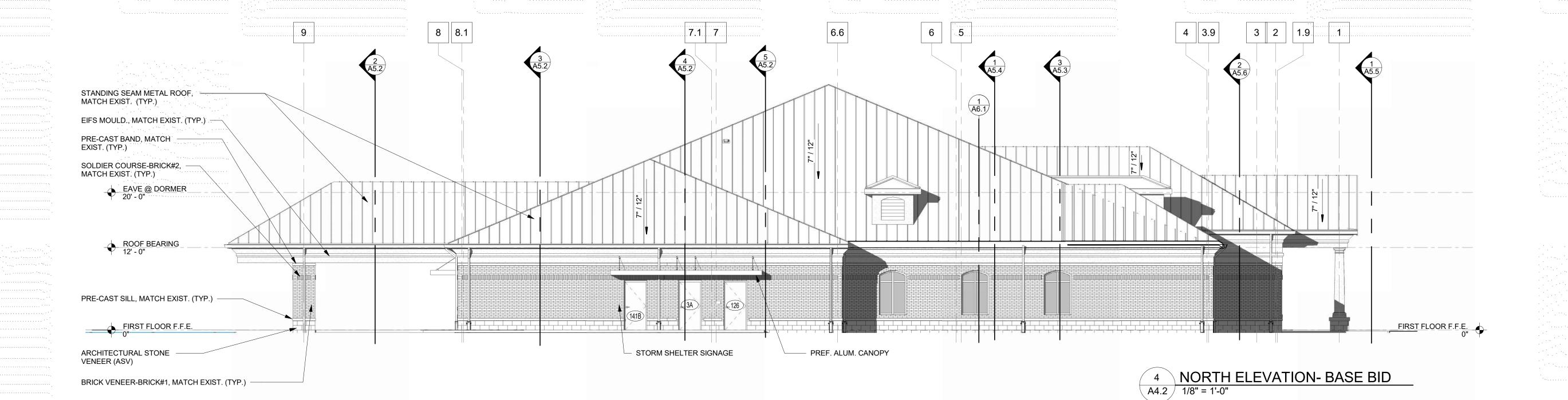
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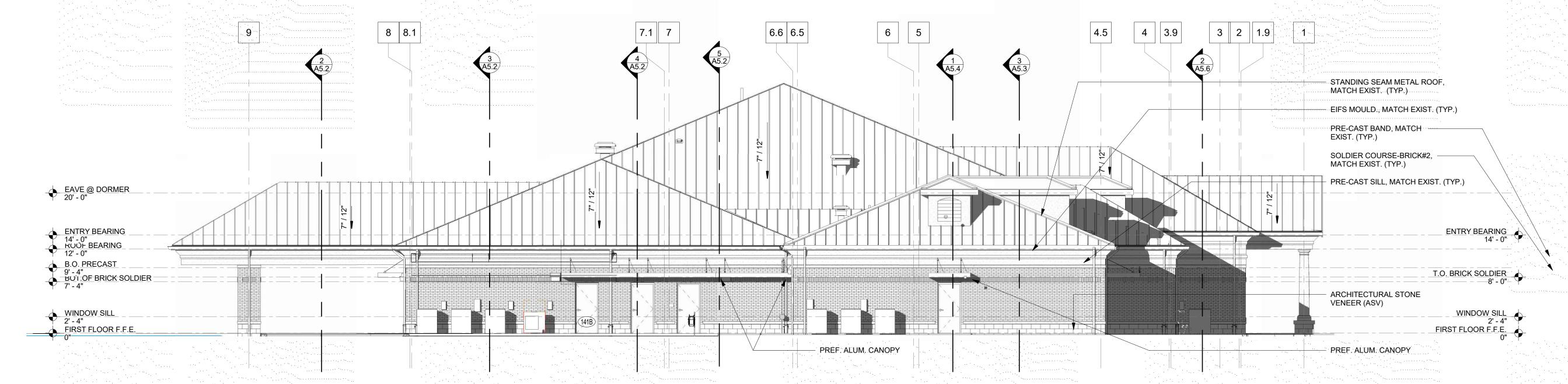
DESCRIPTION: EAST & WEST EXTERIOR ELEVATIONS -BASE BID & ALTERNATE

SHEET

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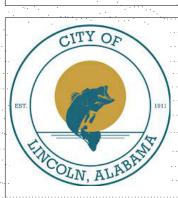
AA NORTH ELEVATION- COURT ROOM SHELL - ALTERNATE

A4.2 1/8" = 1'-0"



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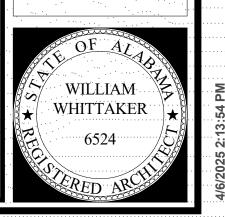
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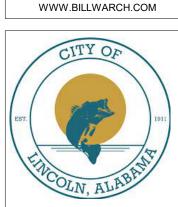
DESCRIPTION:
NORTH & SO

DESCRIPTION:
NORTH & SOUTH
EXTERIOR
ELEVATIONS BASE BID &
ALTERNATE

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EW CITY OF LINCOLN
JLICE DEPARTMENT
INCOLN, ALABAMA



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ISSUE: 3.31.25 BID

205-942-0696

Attn: Tony Dodd

JOB NO.
24001

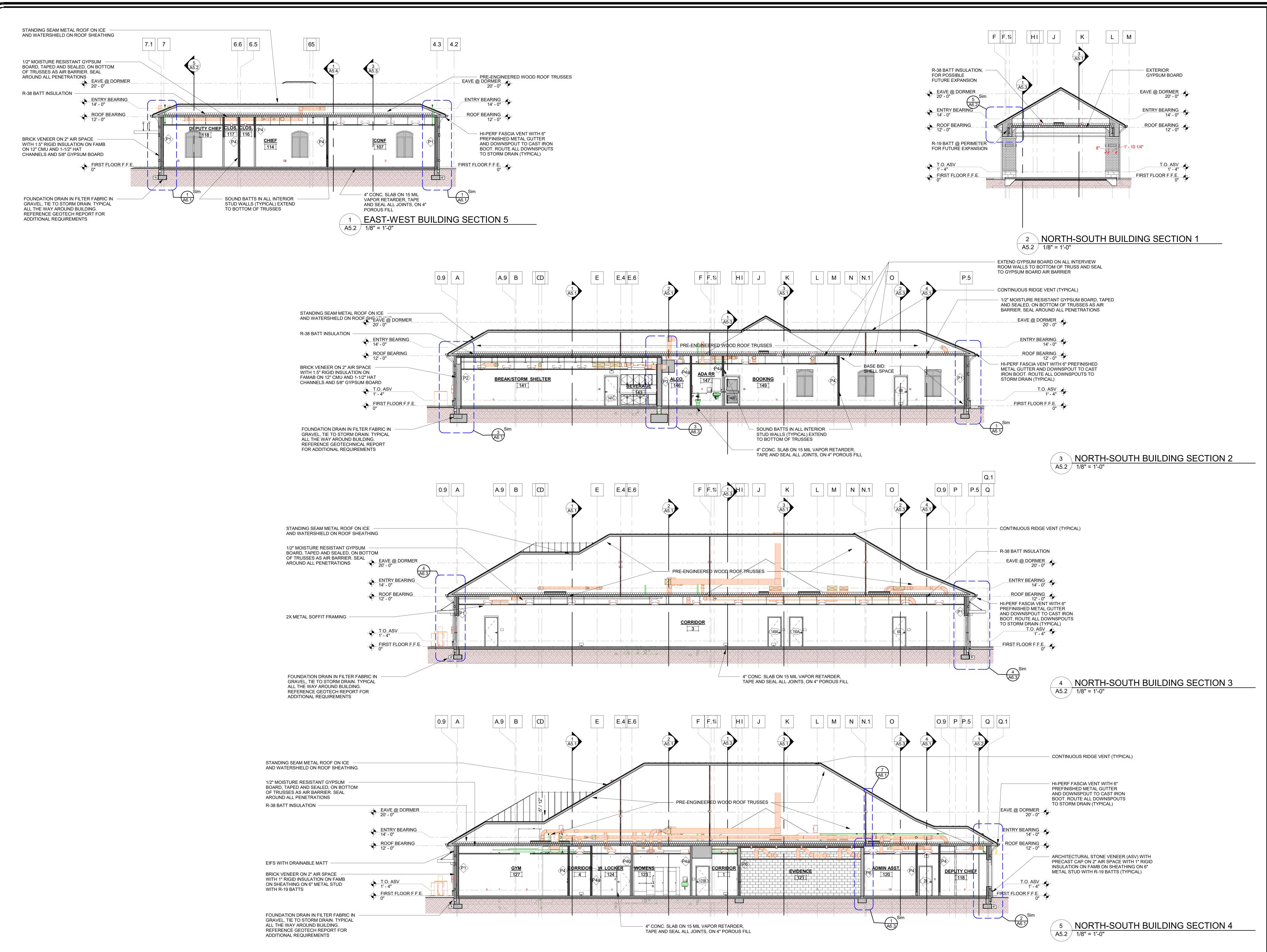
DESCRIPTION:
BUILDING
SECTIONS

SHEET

WILLIAM

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6524





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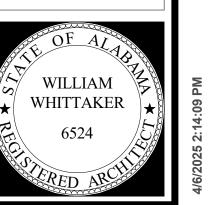
Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

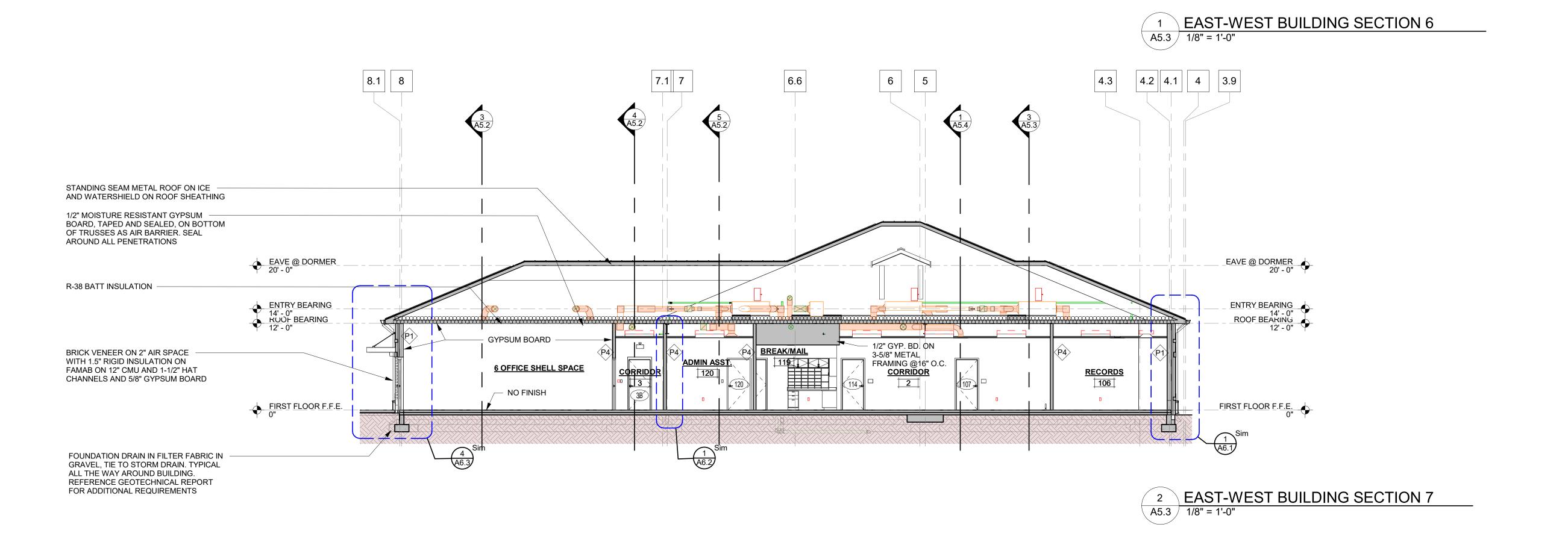
ELECTRICAL ENGINEER

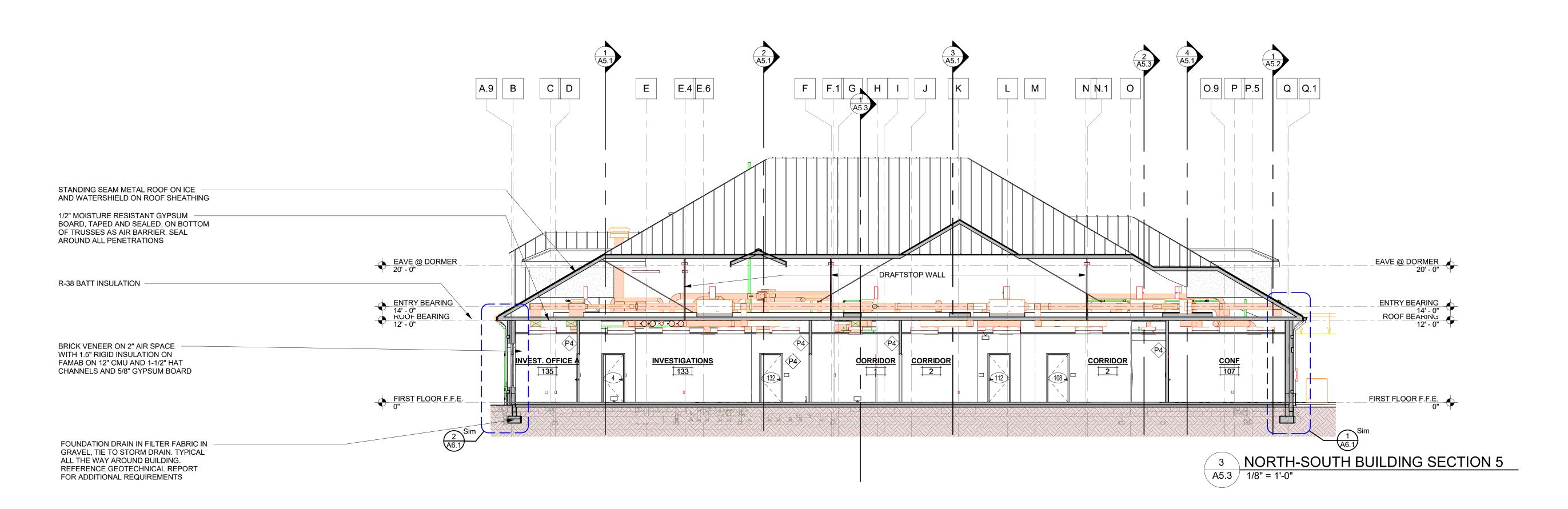
Hays Cheatwood Consulting P.O. Box 250

JOB NO. 24001 DESCRIPTION: BUILDING SECTIONS

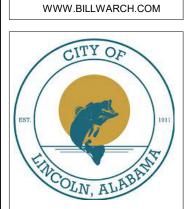
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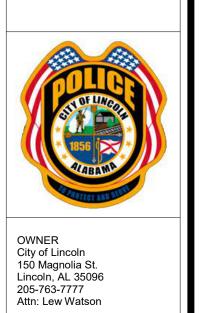






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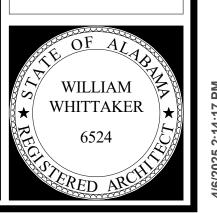
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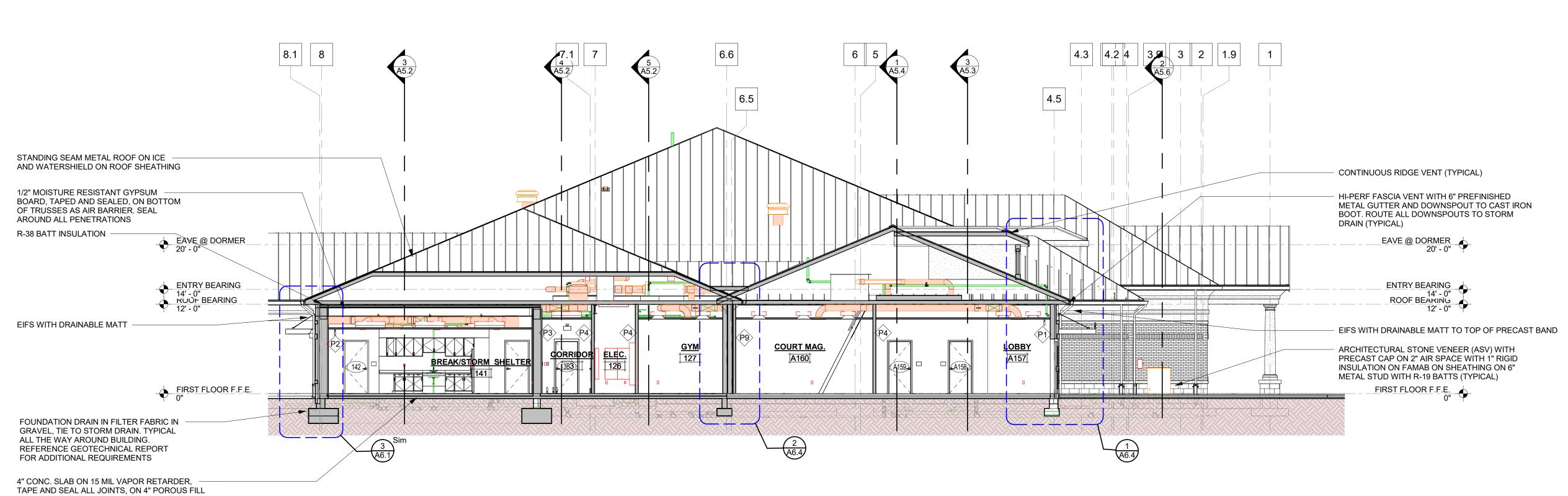
JOB NO.
24001

DESCRIPTION:
BUILDING
SECTIONS

SHEET

A5.3





ALL THE WAY AROUND BUILDING.

FOR ADDITIONAL REQUIREMENTS

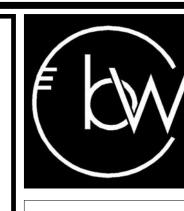
REFERENCE GEOTECHNICAL REPORT

3 EAST-WEST BUILDING SECTION 2 - COURT ROOM ALTERNATES
A5.4 1/8" = 1'-0"

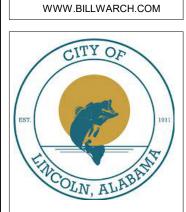
4" CONC. SLAB ON 15 MIL VAPOR RETARDER,

TAPE AND SEAL ALL JOINTS, ON 4" POROUS FILL

2 EAST-WEST BUILDING SECTION 1 - COURT ROOM ALTERNATES
A5.4 1/8" = 1'-0"



BILL WHITTAKER, P.C ARCHITECTURE 236 MARTIN STREET ANNISTON, AL 36206 256.689.0238



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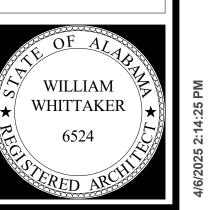
Attn: Randy Whorton

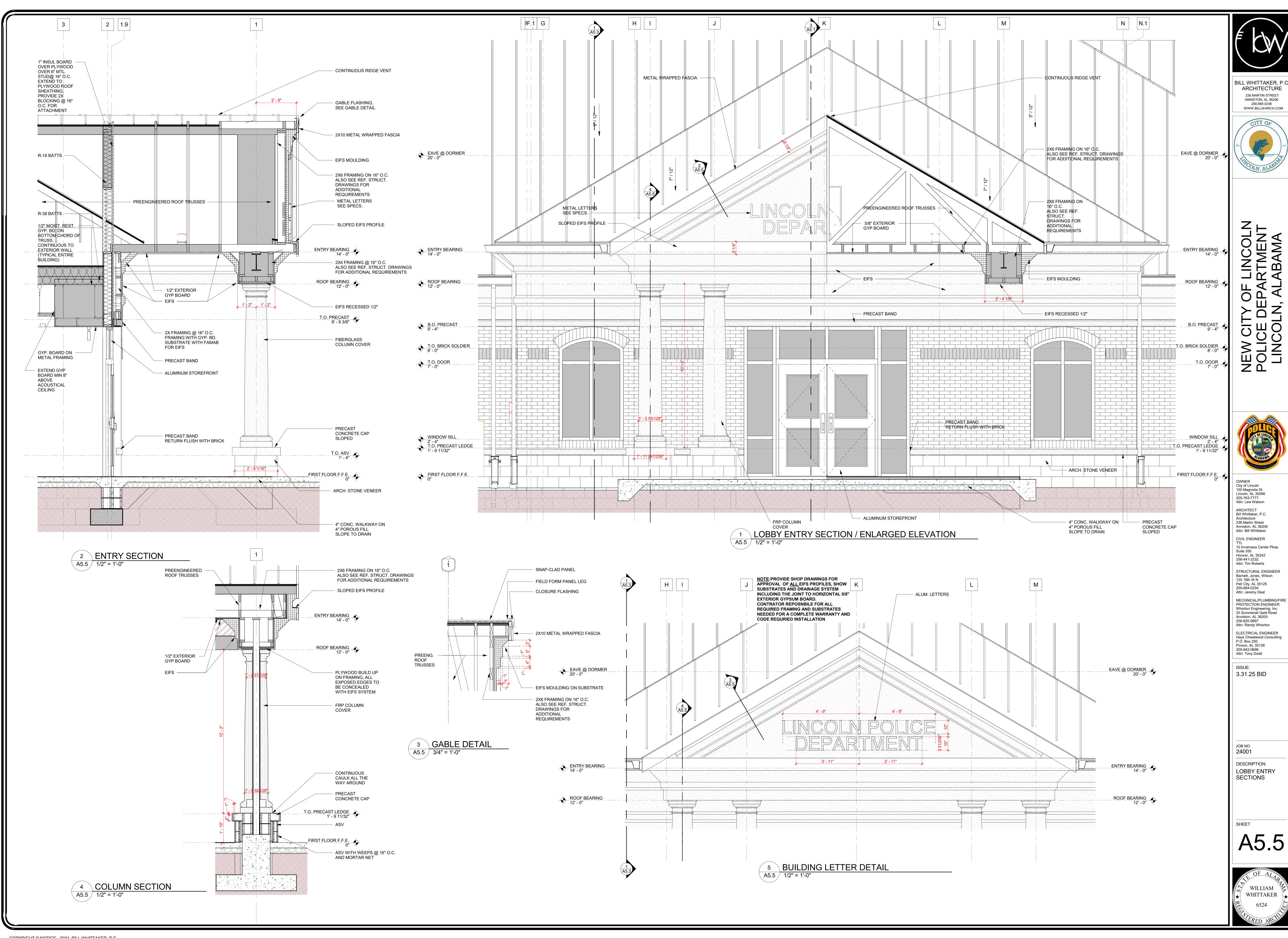
ELECTRICAL ENGINEER Hays Cheatwood Consulting P.O. Box 250

DESCRIPTION:
BUILDING
SECTIONS ALTERNATE

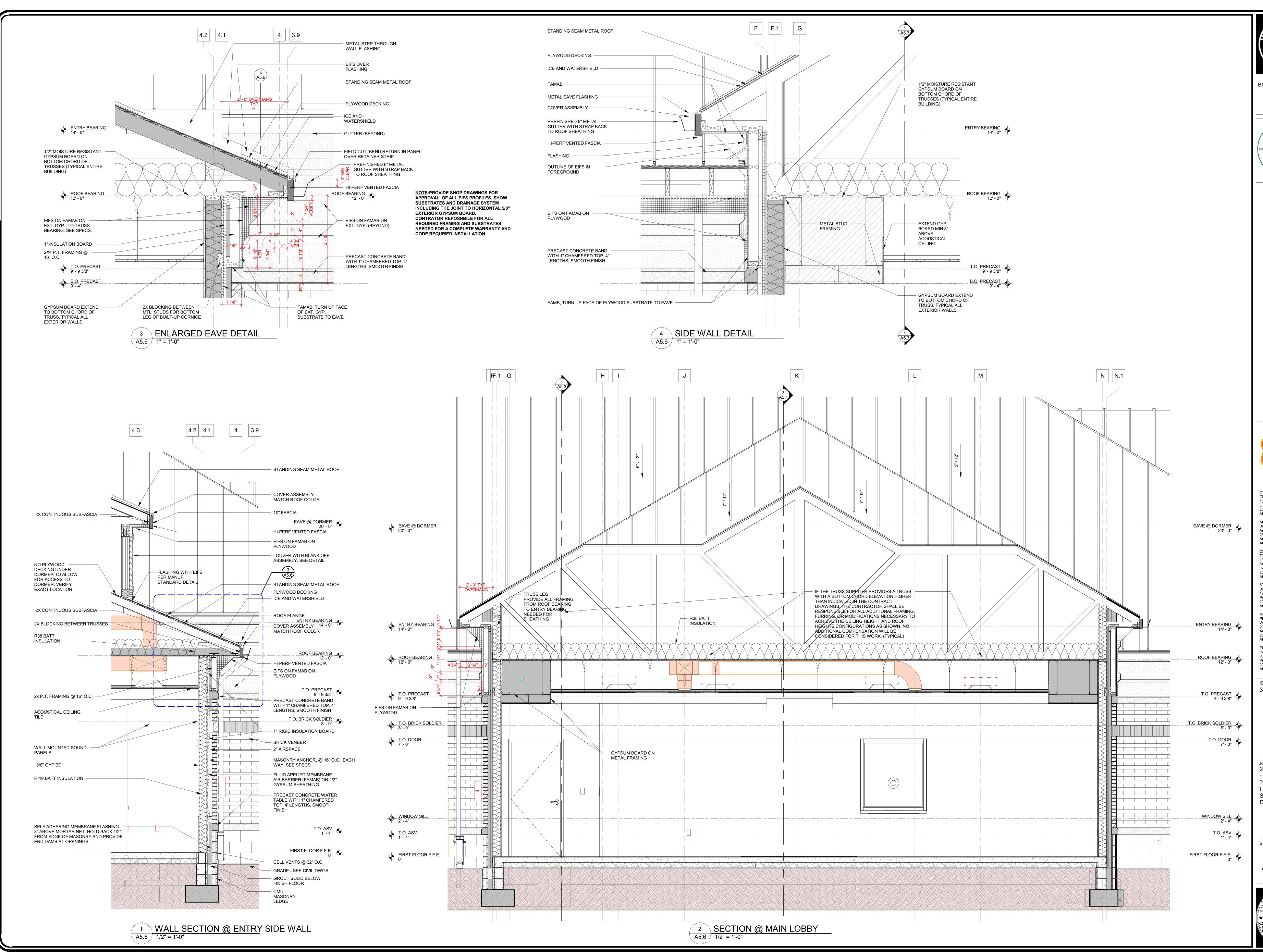
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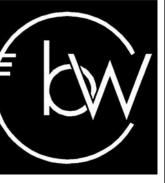
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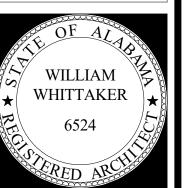
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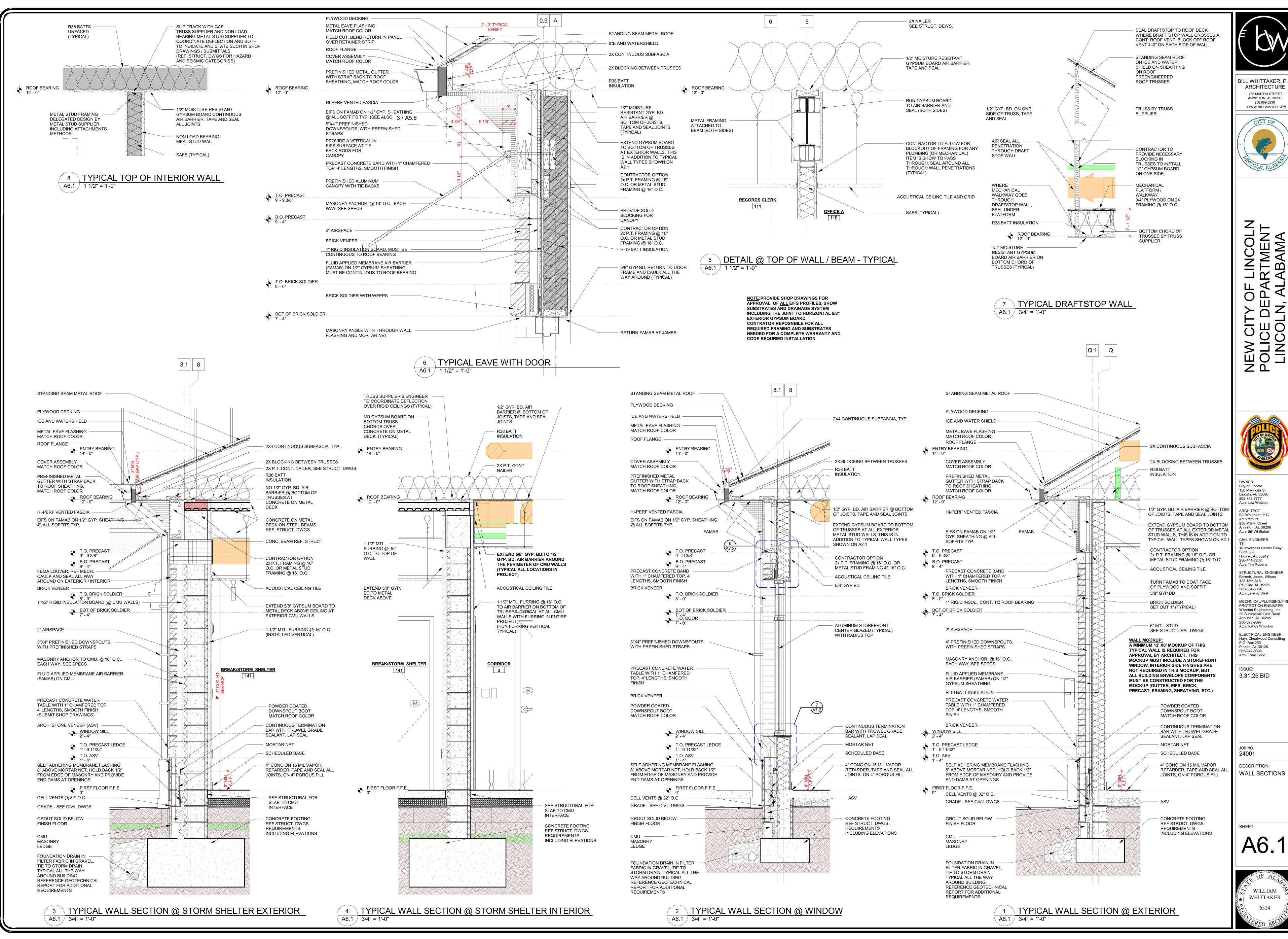
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24001

DESCRIPTION: LOBBY ENTRY SECTIONS AND **DETAILS**





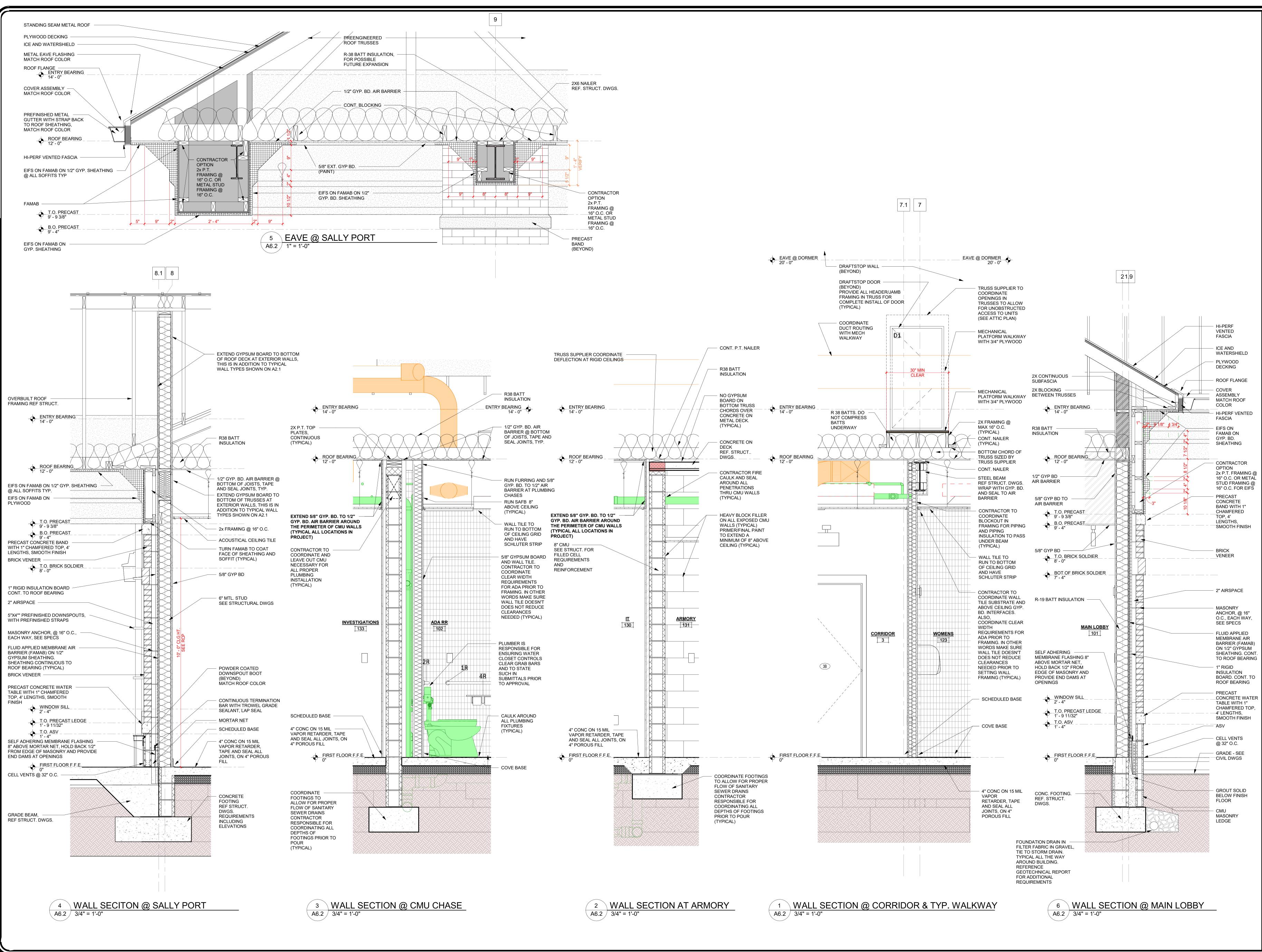


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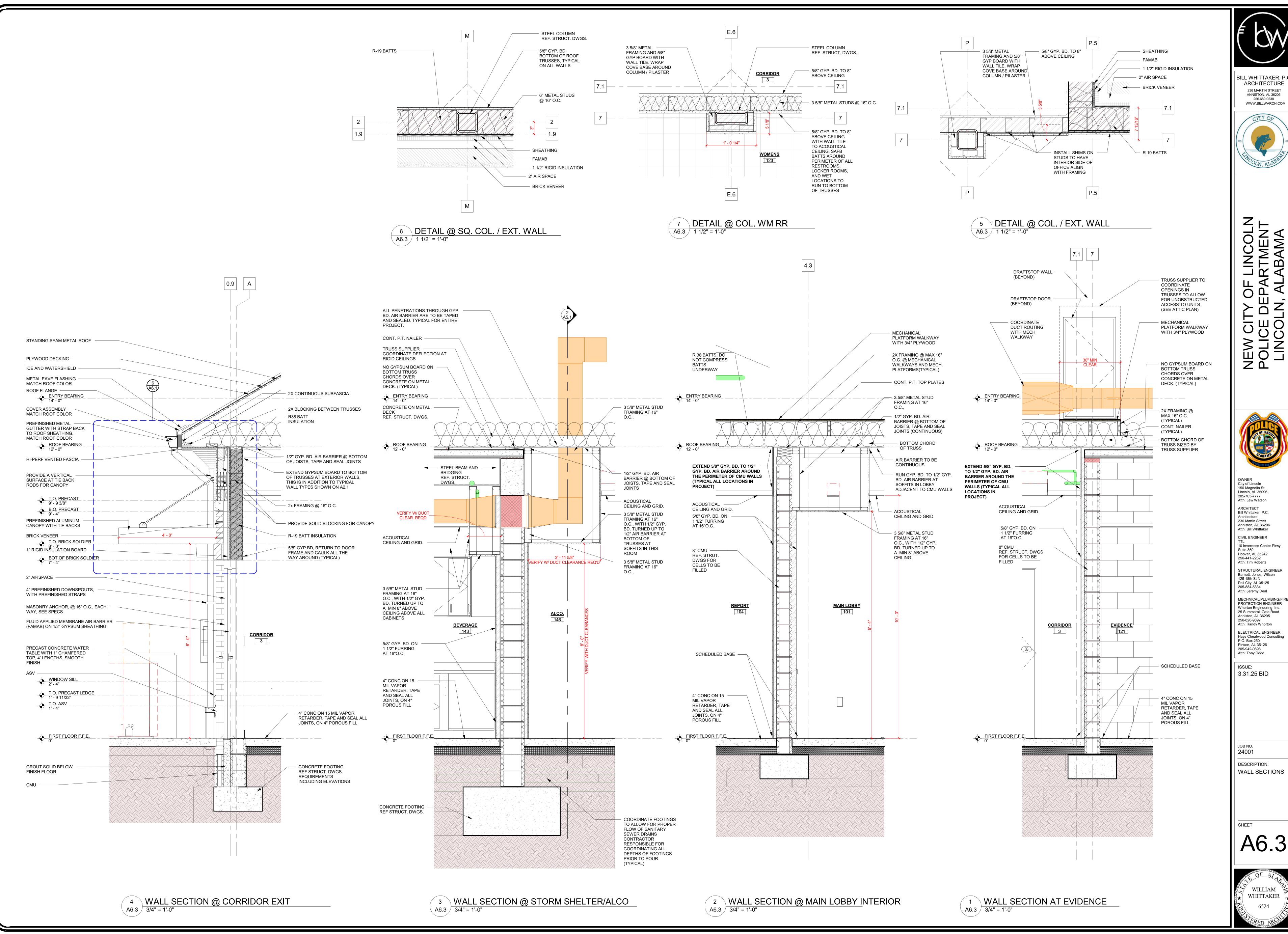
DESCRIPTION:
WALL SECTIONS

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WHITTAKER

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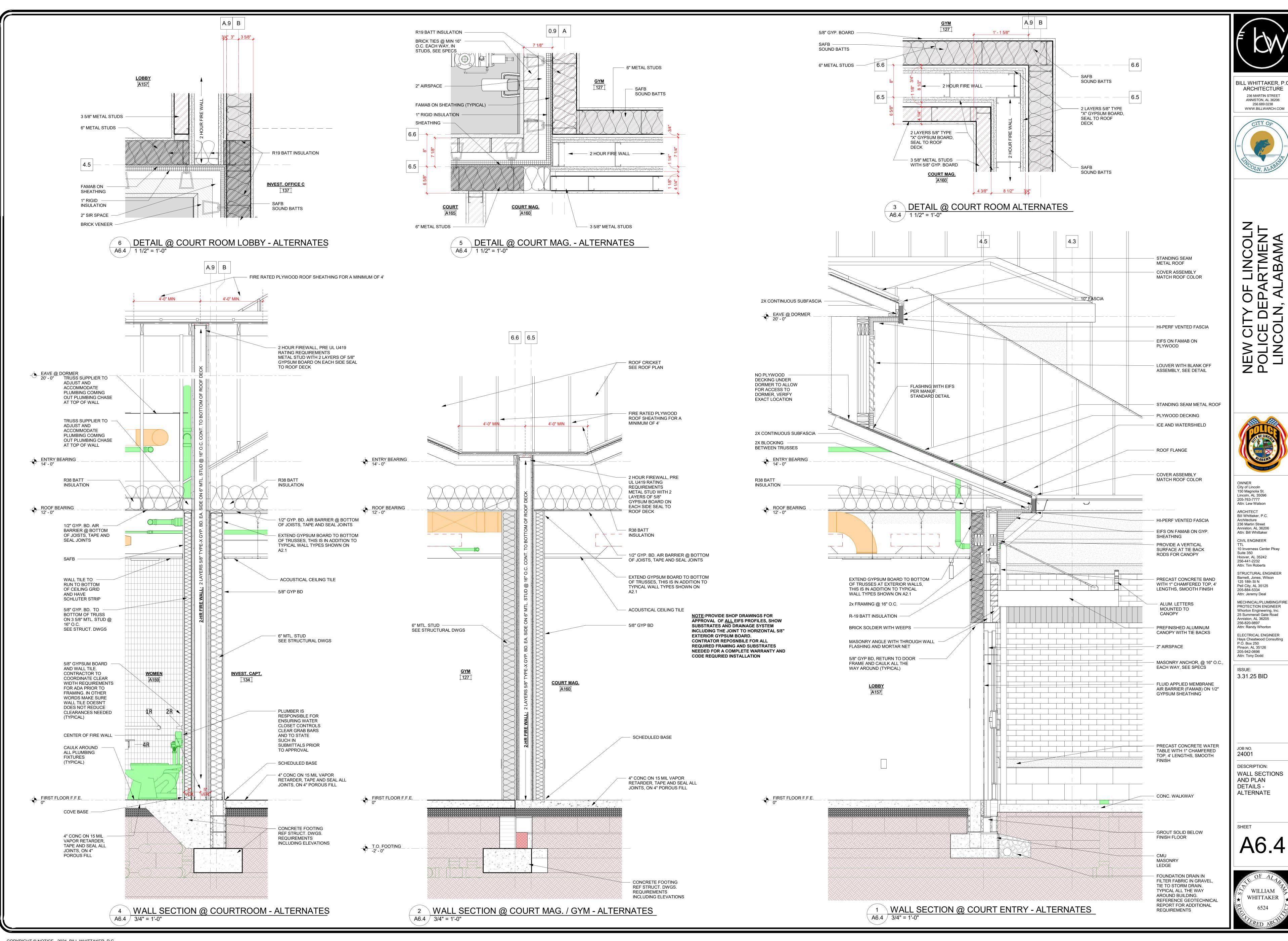


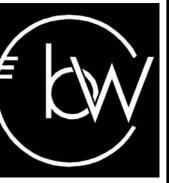
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DESCRIPTION: WALL SECTIONS



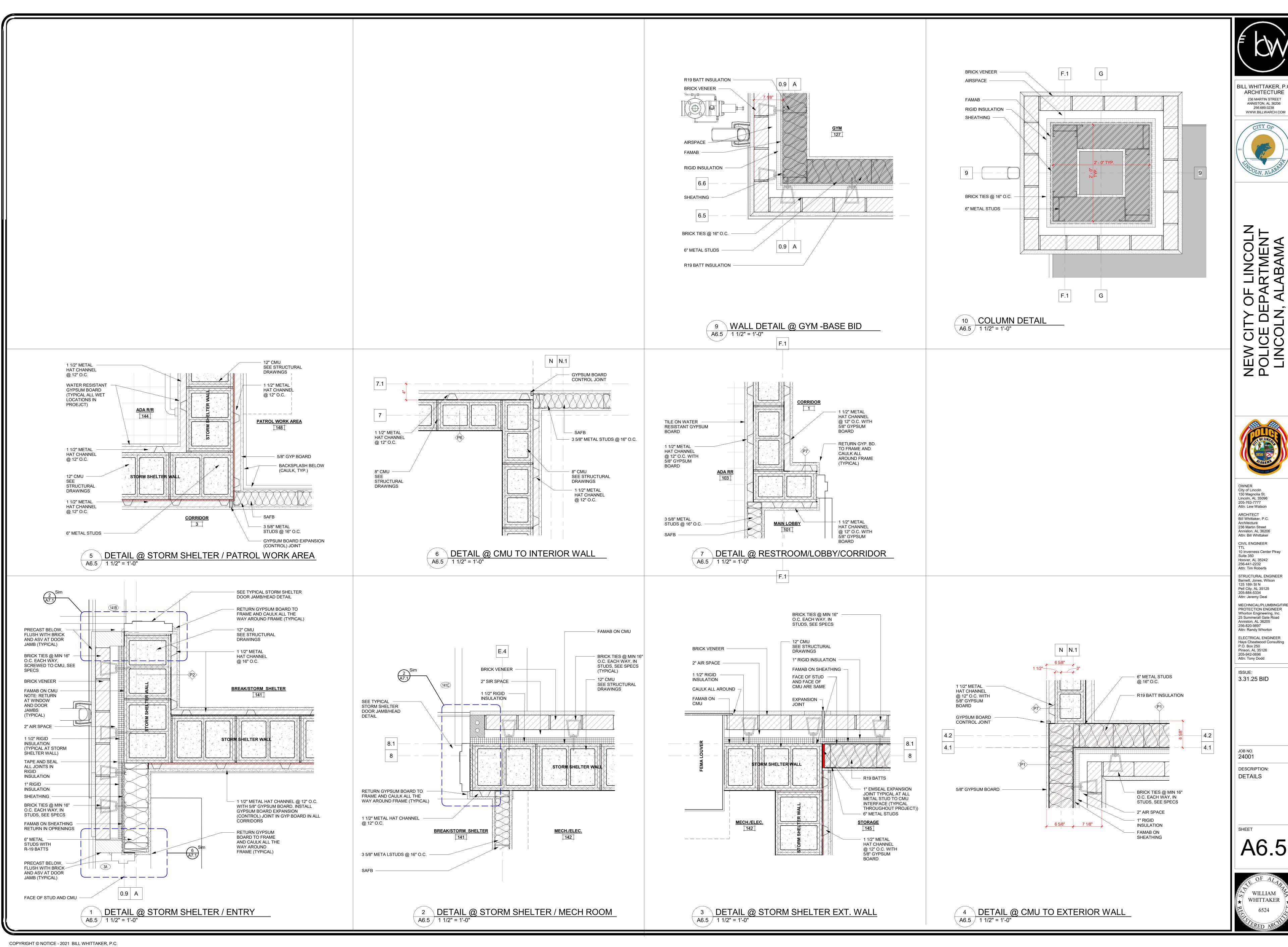


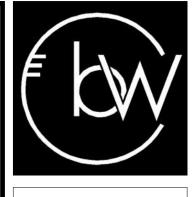
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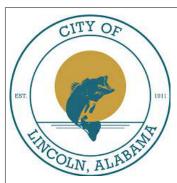




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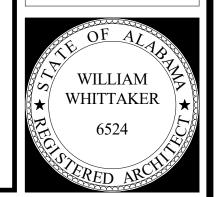
256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696 Attn: Tony Dodd

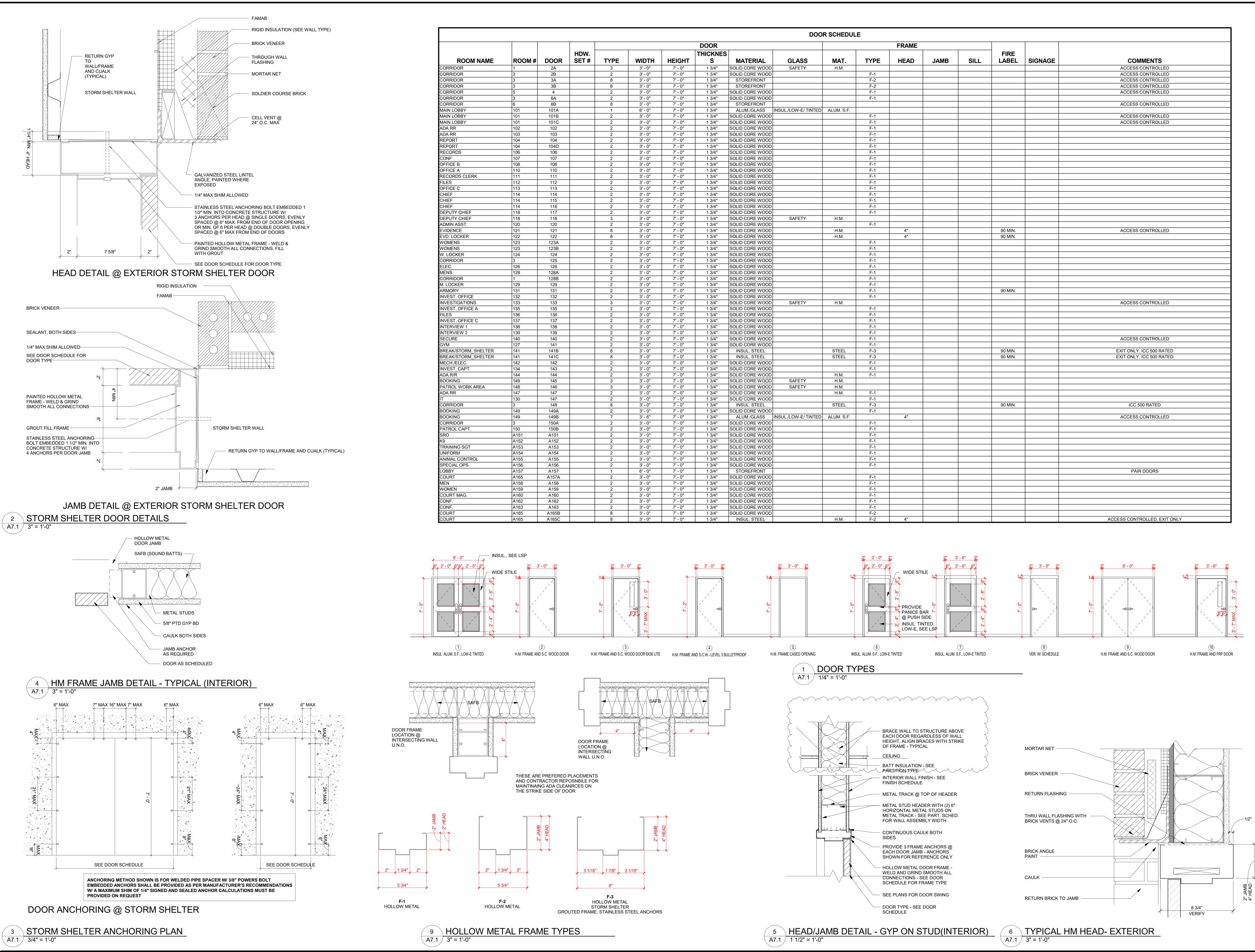
3.31.25 BID

DESCRIPTION:

DETAILS

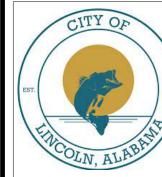
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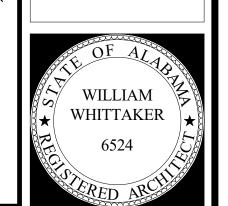


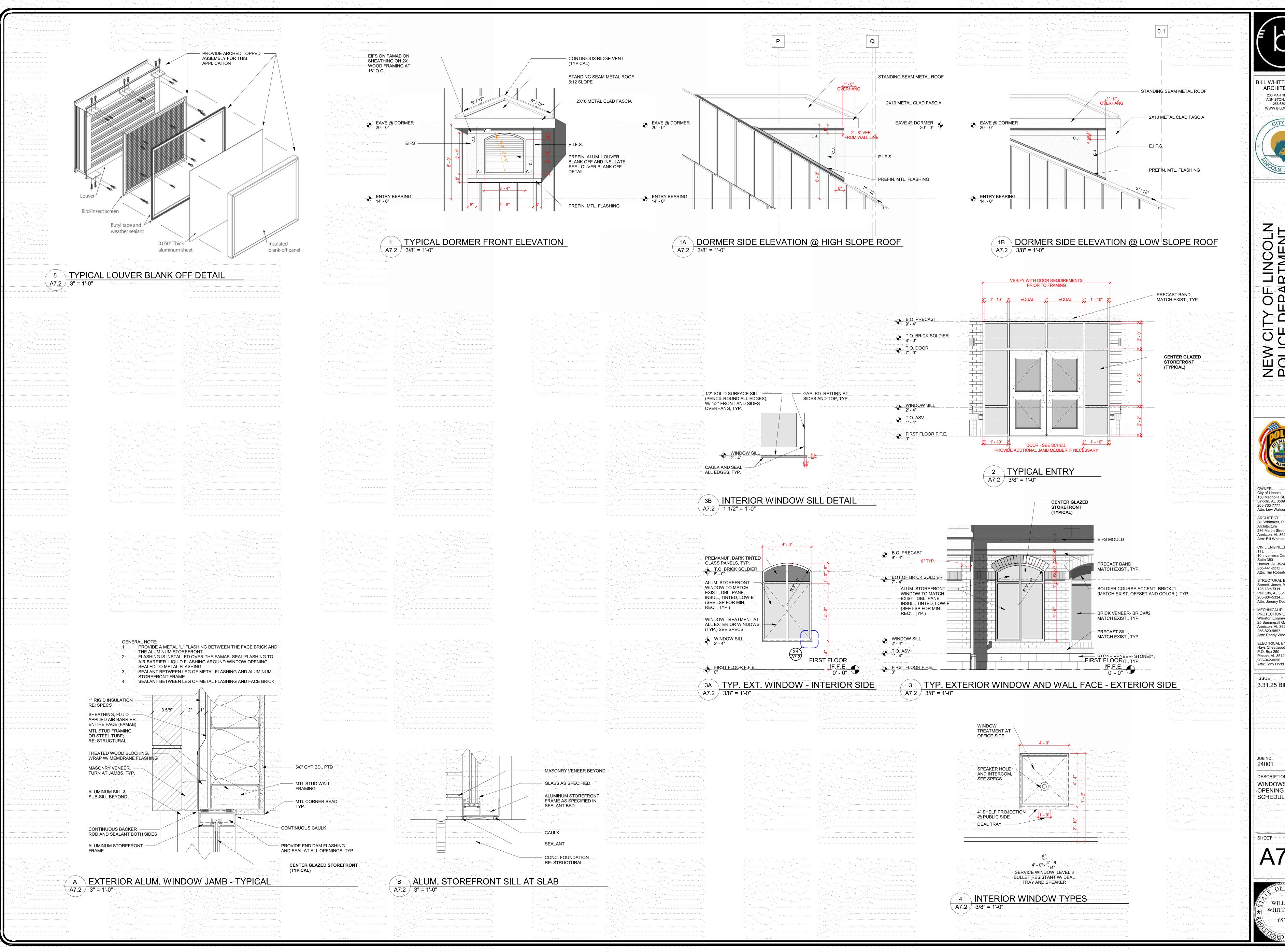
OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton **ELECTRICAL ENGINEER** Hays Cheatwood Consulting P.O. Box 250 Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

3.31.25 BID

24001 **DESCRIPTION:** DOOR AND

FRAME TYPES









NEW CITY POLICE I



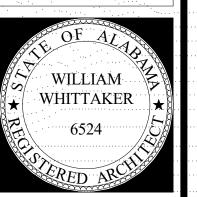
OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 11L
10 Inverness Center Pkwy
Suite 350
Hoover, AL 35242
256-441-2232
Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal

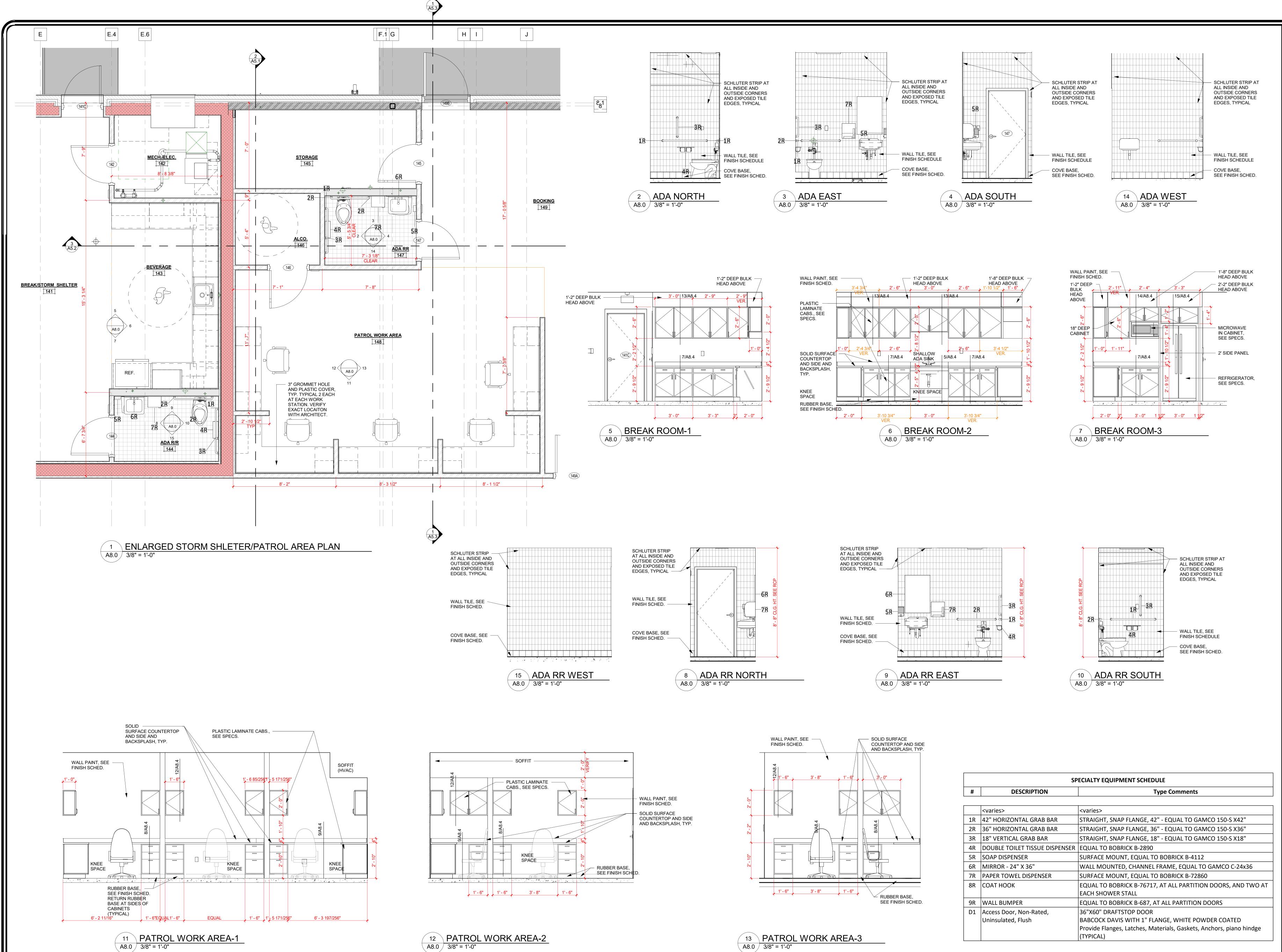
MECHNICAL/PLUMBING/FIRE
PROTECTION ENGINEER
Whorton Engineering, Inc.
25 Summerall Gate Road
Anniston, AL 36205
256-820-9897
Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696

3.31.25 BID

JOB NO. 24001 DESCRIPTION:

WINDOWS AND **OPENING** SCHEDULES









NEW CIT POLICE LINCOL



OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER

10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal

MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696

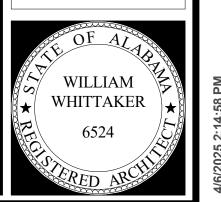
3.31.25 BID

Attn: Tony Dodd

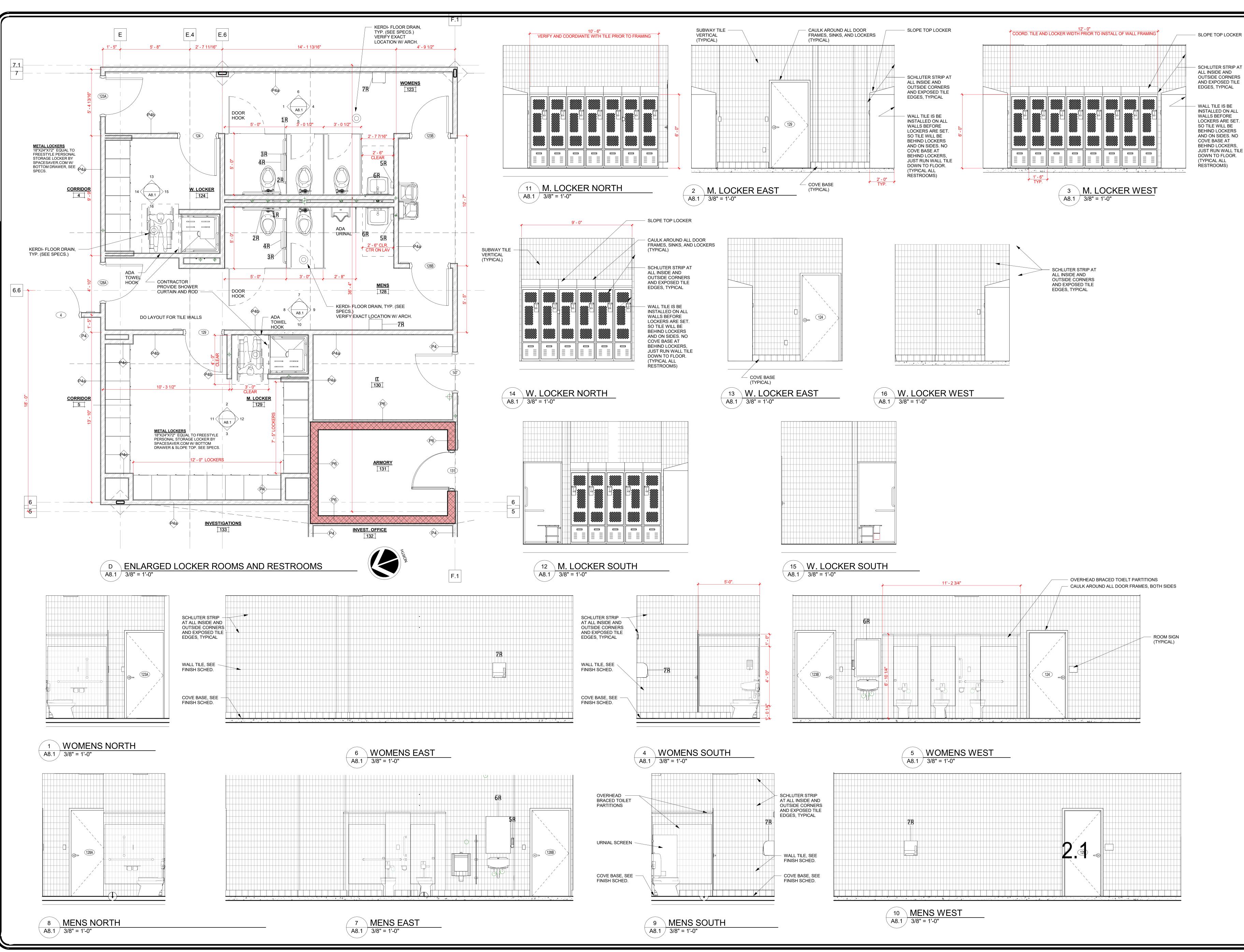
24001 DESCRIPTION: ENLARGED BEVERAGE, PATROL WORK

AREA, AND RESTROOM PLANS

SHEET A8.0



A8.0 3/8" = 1'-0"







LINCOLN RTMENT ABAMA Zď



OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy

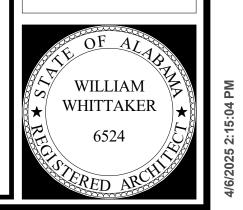
Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton

Attn: Tony Dodd ISSUE: 3.31.25 BID

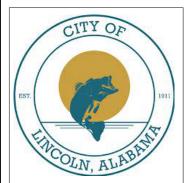
ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696

JOB NO. 24001 DESCRIPTION: ENLARGED RESTROOM AND LOCKER ROOM PLANS

SHEET A8.1







LINCOLN RTMENT ABAMA NEW CITY POLICE DE LINCOLN,



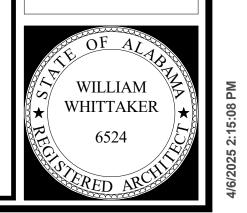
OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER TTL 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250

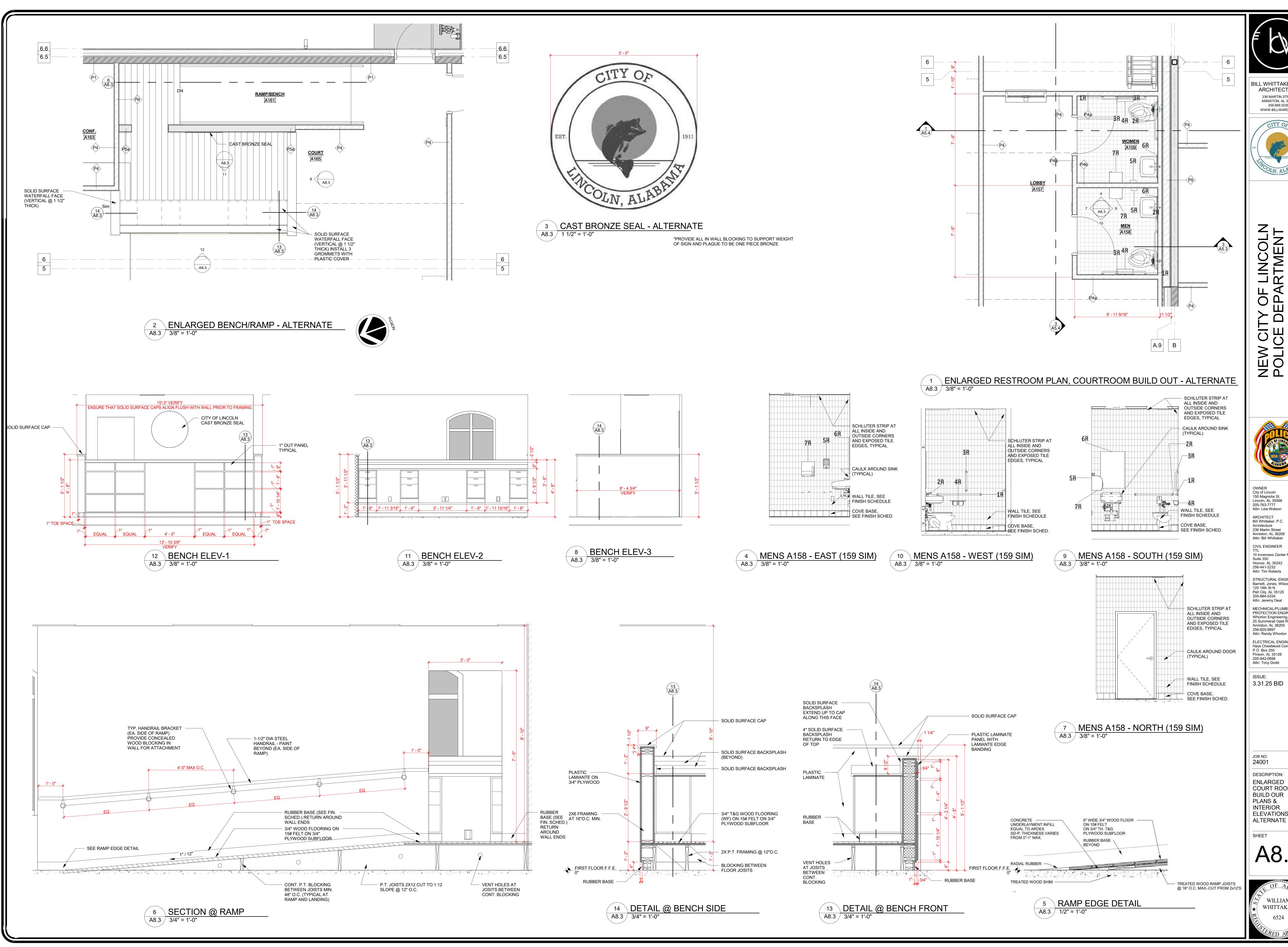
ISSUE: 3.31.25 BID

Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

JOB NO. 24001 DESCRIPTION: ENLARGED BREAK/MAIL AND LOBBY RESTROOMS, AND INTERIOR ELEVATIONS

SHEET A8.2







NEW CIT POLICE LINCOL



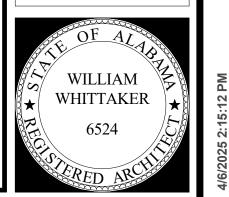
OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal

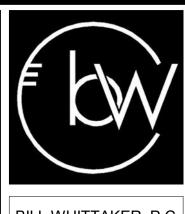
MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
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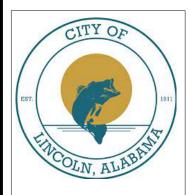
ISSUE: 3.31.25 BID

JOB NO. DESCRIPTION: ENLARGED COURT ROOM BUILD OUR PLANS & INTERIOR ELEVATIONS

A8.3







NEW CIT POLICE DE LINCOLI

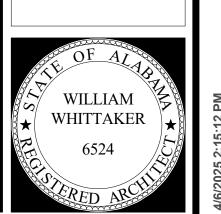


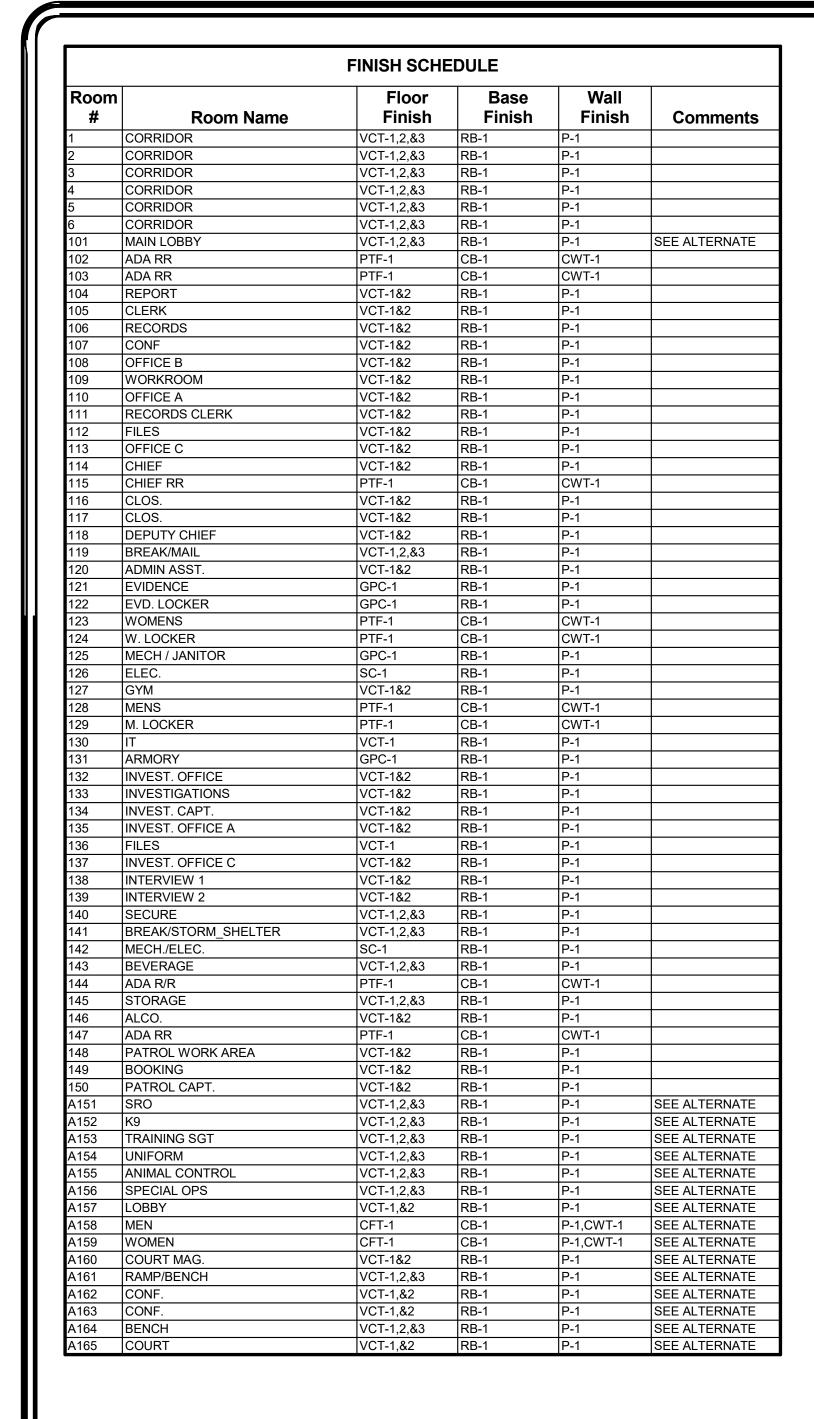
OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Hays Cheatwood Consulting P.O. Box 250 Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

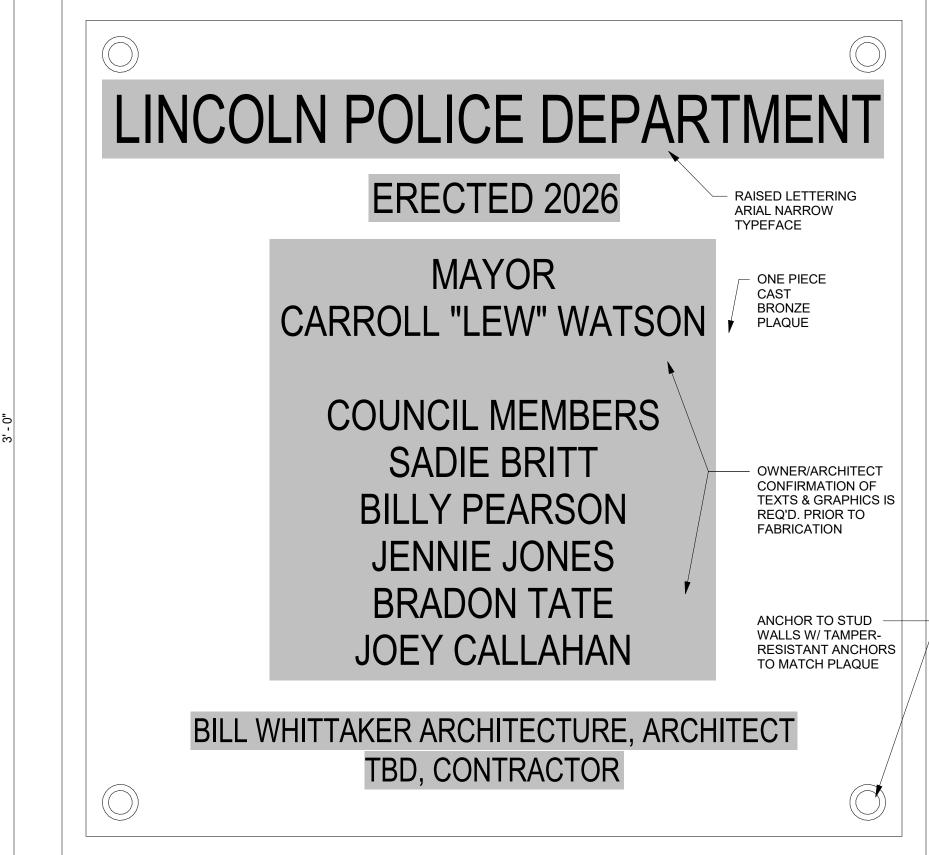
ISSUE: 3.31.25 BID

JOB NO. 24001

DESCRIPTION: TYPICAL CABINET **DETAILS**







BRONZE PLAQUE DETAIL

ACI 117 STANDARDS. F-NUMBERS MUST BE MEASURED BY OWNERS THIRD PARTY WITHIN 72

HOURS TO CONFIRM CONFORMANCE IT IS THE CONTRACTOR REASONABILITY TO SCHEDULE

PAINT AS NOTED WITH A SUFFIX AFTER THE "PT" INDICATES A UNIQUE COLOR. I.E. PT-1, PT-2,

ETC. ARE REQUIRED DIFFERENT COLORS. A ROOM SHOWING MULTIPLE PAINT COLORS,

WILL BE REQUIRED TO BE REMOVED AND REPLACED AND CONTRACTORS EXPENSE.

THIS INSPECTION WITHIN THE TIME ALLOTTED. ANY CONCRETE OUTSIDE THE SPECIFICATIONS

REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION ON WALL FINISHES.

PAINT ALL HOLLOW METAL FRAMES A CONTRASTING COLOR AS SELECTED BY

CONTRACTOR SHOULD ALLOW FOR EQUAL AMOUNTS OF EACH COLOR

OWNER/ARCHITECT, PT-4

A DIGITAL FILE OF THIS IMAGE WILL BE PROVIDED TO CONTRACTOR. CONTRACTOR IS REQUIRED TO GENERATE THEIR OWNER DIGITAL FILE AND SUBMIT TO

SUBMIT PHYSICAL SAMPLES OF COLORS SELECTED BY ARCHITECT DURING THE UBMITTAL PROCESS FOR FINAL APPROVAL BY ARCHITECT

LETTERS, NUMBERS, AND STARS MAY BE METAL IN LIEU OF POURED LL BIDDERS MUST VERIFY INSTALLATION REQUIREMENTS PRIOR TO BID. IN PLAIN NOT BE MADE AS SHOWN IT WILL BE THE CONTRACTOR'S RESPONSIBILITY AND COST TO PROVIDE AN ACCEPTABLE SEAL TO THE OWNER. AS DETERMINED BY THE ARCHITECT. THEREFORE ENSURE YOUR SUB CONTRACTORS CAN CLEARLY FABRICATE

4 TERAZZO SEAL DETAIL - ALTERNATE



OFFICE TYPE SIGNAGE ROOM TYPE SIGNAGE

RESTROOM

TOP VIEW (WITH END CAP)

TOP VIEW (WITHOUT END CAP)

CLASSROOM

INSERT TEXT

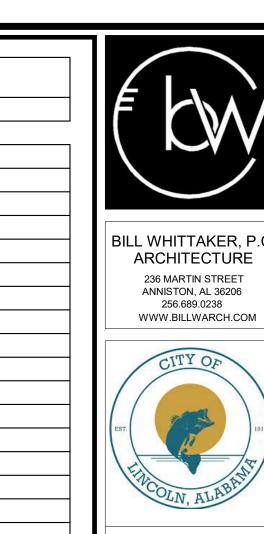
STORAGE

FRONT VIEW **ROOM TYPE SIGNAGE MEN/WOMEN/UNISEX**

ROOM SIGNAGE TYPES

INSTALL ROOM SIGNS PER MANUFACTURER REQUIREMENTS. VINYL FOAM TAPE FOR MOUNTING SIGNAGE. TYPE AND COLOR TO BE MATCH ROOF COLOR BACKGROUND WITH WHITE LETTERING. PROVIDE "WINDOW" SECTION FOR REPLACEABLE OCCUPANT NAME ON ALL OFFICE DOORS.

ALL SIGNAGE MUST COMPLY WITH ADA 703 SIGNS. ### ON SCHEDULE DEPICTS ROOM NUMBERS. ALTHOUGH ROOMS NAMES ARE ABBREVIATED, SPELL ENTIRE ROOM NAME OUT. OFFICE MARKED AS SPARE TO READ "OFFICE".



ROOM SIGNAGE

ROOM TYPE ROOM TYPE

ROOM TYPE

OFFICE-TYPE

OFFICE-TYPE

OFFICE-TYPE ROOM TYPE

OFFICE-TYPE

OFFICE-TYPE

OFFICE-TYPE

ROOM TYPE

OFFICE-TYPE

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OFFICE-TYPE - 6 OFFICE ALTERNATE OFFICE-TYPE - 6 OFFICE ALTERNATE

OFFICE-TYPE - 6 OFFICE ALTERNATE

OFFICE-TYPE - 6 OFFICE ALTERNATE

OFFICE-TYPE - 6 OFFICE ALTERNATE

OFFICE-TYPE - 6 OFFICE ALTERNATE

WOMEN - COURT ROOM ALTERNATE

OFFICE - COURT ROOM ALTERNATE

ROOM TYPE - COURT ROOM ALTERNATE

ROOM TYPE - COURT ROOM ALTERNATE

ROOM TYPE - COURT ROOM ALTERNATE

ROOM TYPE - COURT ROOM ALTERNATE

MEN - COURT ROOM ALTERNATE

ROOM TYPE

MENS

OFFICE-TYPE

<u>UNISEX</u>

<u>UNISEX</u>

ROOM#

CORRIDOR

ADA RR

REPORT

REPORT

RECORDS

OFFICE E

OFFICE A

OFFICE C

CHIEF RF

DEPUTY CHIEF

BREAK/MAIL

EVIDENCE

W. LOCKER

M. LOCKER

<u>ARMORY</u>

INVEST. OFFICE

INVESTIGATIONS

INVEST. OFFICE A

INVEST. OFFICE C

BREAK/STORM SHELTER ROOM TYPE

INVEST. CAPT.

INTERVIEW 1

INTERVIEW 2

MECH./ELEC.

BEVERAGE

ADA R/R

STORAGE

BOOKING

PATROL CAPT

PATROL CAPT.

TRAINING SGT

SPECIAL OPS

COURT MAG

BENCH

COURT

ANIMAL CONTROL

UNIFORM

SECURE

MECH / JANITOR

RECORDS CLERK

SIGN TYPE - COMMENTS

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Zď

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STRUCTURAL ENGINEER

205-942-0696 Attn: Tony Dodd 3.31.25 BID

Pinson, AL 35126

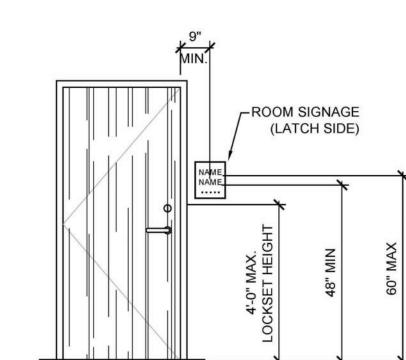
24001

DESCRIPTION: FINISH

SCHEDULES, PLAQUE,

SINGAGE

TERRAZO, AND



3 ADA DOOR SIGNAGE

| MISC. | | | | | | | | |
|---------|----------------------------|-----------------|----------------------------|--|--------------|--|-------------------------|--------------|
| .CODE | MATERIAL | BASIS OF DESIGN | STYLE/PATTERN | COLOR | SIZE | FINISH NOTES | CONTACT | |
| AS | ALUMINUM STOREFRONT | OLD CASTLE | SEE SPECIFICATIONS | CLEAR ANODIZED | SEE DRAWINGS | GLAZING - SEE SPECIFICATIONS | REFER TO SPECIFICATIONS | |
| ASV | ARCHITECTURAL STONE VENEER | READING ROCK | ROCKCAST | MATCH EXISTING CITY HALL (SMOOTH FACE) | 8X16 | USE COMPATABLE PRECAST SILL ON TOP AT 48" LONG, PROVIDE BOND BREAK | TERRY SNOW | 205-283-3068 |
| BRICK-1 | BRICK | ACME BRICK | RUNNING BOND | MATCH EXISTING CITY HALL | MODULAR | MORTAR COLOR - TBD, PROVIDE MOCKUP PANELS | TERRY SNOW | 256-441-0095 |
| BRICK-2 | BRICK | ACME BRICK | RUNNING BOND | MATCH EXISTING CITY HALL | MODULAR | MORTAR COLOR - TBD, PROVIDE MOCKUP PANELS | TERRY SNOW | 256-441-0095 |
| EIFS | EIFS | SEE SPECS | TBD-SELECT FROM FULL RANGE | TBD-SELECT FROM FULL RANGE | | PROVIDE EXPANSION JOINTS AND VERIFY LOCATIONS WITH ARCH. | | |
| PL | PLASTIC LAMINATE | WILSON ART | TBD | FULL RANGE | | | CHAD SANDERS | 256-310-5013 |
| SCW | PREFINISHED WOOD DOORS | MASONITE | SELECT WHITE MAPLE | FULL RANGE | SEE DETAILS | SEE SPECS 081416 / PROVIDE SAMPLES | | |

| FLOOR | | | | | | | | |
|-------|--------------------------------|-------------------------|-----------------|-----------------------|---------------|--|----------------------------------|-----------------------------|
| CODE | MATERIAL | BASIS OF DESIGN | STYLE/PATTERN | COLOR | SIZE | FINISH NOTES | CONTACT | PHONE |
| GPC | GROUND AND POLISHED CONCRETE | REFER TO SPECIFICATIONS | NATURAL | | | | JEFFCO CONCRETE | 205-345-3443 |
| PTF-1 | PORCELAIN TILE FLOOR | DALTILE | KEYSTONES | TBD FROM GROUPS 1,2,3 | 2" HEX | PROVIDE COVE BASE, NO EXPOXY GROUT, USE DIRTA AND KERDI BAND | KATHY GREGERSON | 256-310-9933 |
| PTF-2 | PORCELAIN TILE FLOOR | DALTILE | SOCIETY | TBD | "8"X24" PLANK | NO EXPOXY GROUT,USE DIRTA AND KERDI BAND (OR APPROVED EQUAL) | KATHY GREGERSON | 256-310-9933 |
| SCF | SEALED CONCRETE FLOOR | REFER TO SPECIFICATIONS | | | | | | |
| T-1 | TERRZAZO | TERROXY RESIN SYSTEMS | | | | SEE FLOOR SEAL DETAIL FOR LOBBY | JEFFCO CONCRETE OR STANDARD TILE | 205-345-3443 , 256-458-0756 |
| VCT-1 | VINYL COMPOSITION TILE | ARMSTRONG | STANDARD COLORS | TBD | 12"X12" | FIELD COLOR | KATHY GREGERSON | 256-310-9933 |
| VCT-2 | VINYL COMPOSITION TILE | ARMSTRONG | STANDARD COLORS | TBD | 12"X12" | BORDER COLOR | KATHY GREGERSON | 256-310-9933 |
| VCT-3 | VINYL COMPOSITION TILE | ARMSTRONG | STANDARD COLORS | TBD | 12"X12" | ACCENT COLOR | KATHY GREGERSON | 256-310-9933 |
| WF | WOOD FLOOR - MEETING ROOM/RAMP | | 3/4" HARD MAPLE | MINWAX - TBD | 2-1/4" X 3/4" | MINWAX SELECTED FROM FULL RANGE OF STAINS | | |

PLAQUE TO BE ONE PIECE BRONZE

| В | BASE | | | | | | | | |
|---|-------|-------------|-----------------|-----------------------|-------------------------------|---------|--|-----------------|--------------|
| | .CODE | MATERIAL | BASIS OF DESIGN | STYLE/PATTERN | COLOR | SIZE | FINISH NOTES | CONTACT | PHONE |
| | CB-1 | COVE BASE | DALTILE | KEYSTONES | GROUPS 1,2,3 | 2"X2" | COLOR TBD | | |
| | RB-1 | RUBBER BASE | ROPPE | TRADITIONAL WALL BASE | TBD FROM FULL RANGE OF COLORS | 4" HIGH | 4' LENGTHS, PREFORMED INSIDE AND OUTSIDE CORNERS | KATHY GREGERSON | 256-310-9933 |

| CODE | MATERIAL | BASIS OF DESIGN | STYLE/PATTERN | COLOR | SIZ | 'E FINISH NOTES | CONTACT | PHONE |
|---------|---------------------------|-------------------------|-------------------------|-----------------------------------|--------------|---|-----------------|--------------|
| CWT-1 | CERAMIC WALL TILE | DALTILE | COLOR WHEEL CLASSIC | TBD FROM FULL RANGE OF COLORS AND | FINISHES 3"> | 6" BATHROOMS - NON EPOXY GROUT | KATHY GREGERSON | 256-310-9933 |
| P-1 | PAINT | SHERWIN WILLIAMS | | TBD | | EGGSHELL FINISH | DWIGHT LECLAIR | 678-361-6108 |
| P-2 | PAINT | SHERWIN WILLIAMS | | TBD | | EGGSHELL FINISH | DWIGHT LECLAIR | 678-361-6108 |
| P-3 | PAINT | SHERWIN WILLIAMS | | TBD | | SEMI-GLOSS FINISH - HOLLOW METAL DOORS & FRAMES | DWIGHT LECLAIR | 678-361-6108 |
| CEILING | | | | | | | | |
| .CODE | MATERIAL | BASIS OF DESIGN | STYLE/PATTERN | COLOR | SIZE | FINISH NOTES | CONTACT | PHONE |
| A1 | GYPSUM BOARD | REFER TO SPECIFICATIONS | REFER TO DRAWINGS | PAINT COLOR TBD, SHERWIN WILLIAMS | | | | |
| A2 | PAINTED EXTERIOR GYPSUM | REFER TO SPECIFICATIONS | REFER TO DRAWINGS | PAINT COLOR TBD, SHERWIN WILLIAMS | | | | |
| APC-1 | ACOUSTICAL LAY-IN CEILING | ARMSTRONG | DUNE 1774 | WHITE | 24" X 24" | | RICH LAWS | 205.410.2765 |
| APC-2 | ACOUSTICAL LAY-IN CEILING | ARMSTRONG | CLEAN ROOM VL 868 | WHITE | 24" X 24" | VINYL FACED | RICH LAWS | 205.410.2765 |
| EML | EXPOSED MASONRY LINTEL | | | VARIES; VERIFY COLOR WITH ARCH | | PAINT, DESIGN INTENT TO MATCH BRICK | | |
| X-P | EXPOSED CEILING: PAINTED | REFER TO SPECIFICATIONS | REFER TO SPECIFICATIONS | VARIES; VERIFY COLOR WITH ARCH | | PAINT ELECTRICAL AND MECHANICAL ROOM CEILING | | |

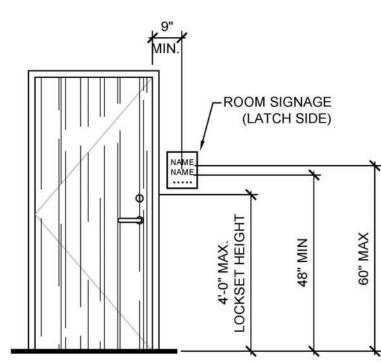
| MILLWORK | | | | | | | | |
|--------------|------------------|-----------------|---------------------|---------------------|------|--|-----------------|--------------|
| CODE | MATERIAL | BASIS OF DESIGN | STYLE/PATTERN | COLOR | SIZE | FINISH NOTES | CONTACT | PHONE |
| PL | PLASTIC LAMINATE | | TBD FROM FULL RANGE | TBD FROM FULL RANGE | | | CHAD SANDERS | 256-310-5013 |
| CODE PL SS-1 | SOLID SURFACE | WILSON ART | TBD FROM FULL RANGE | | | ALL CABIENT TOPS, BACKSPLASHES, AND WINDOW SILLS TO BE SOLID SURFACE | KATHY GREGERSON | 256-310-9933 |

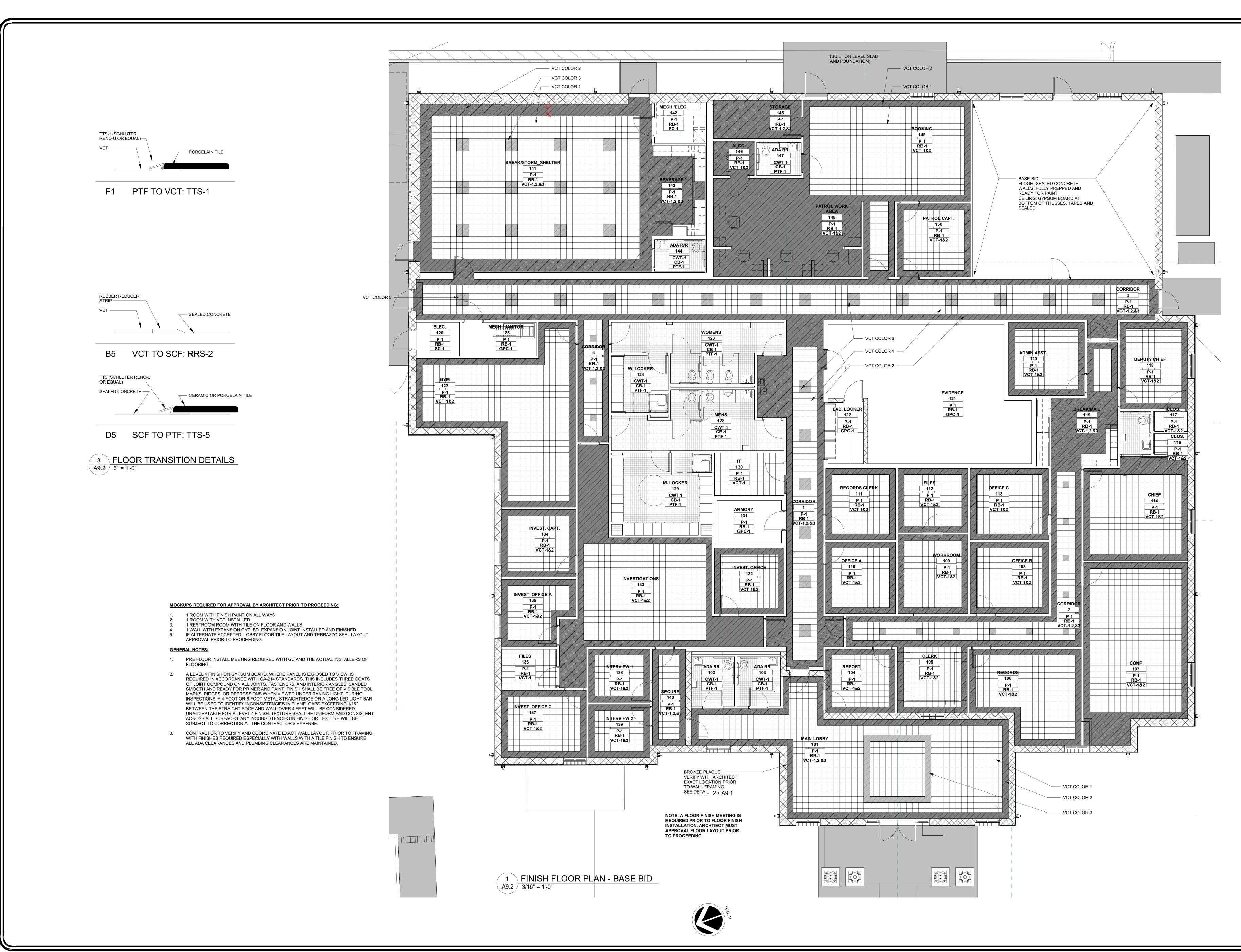
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tactile characters SIGNAGE TO COMPLY WITH 2010 ADA SECTION 703:

Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.









NEW CITY POLICE D LINCOLI



OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C.

Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson

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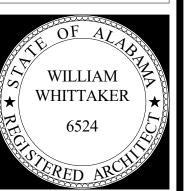
Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

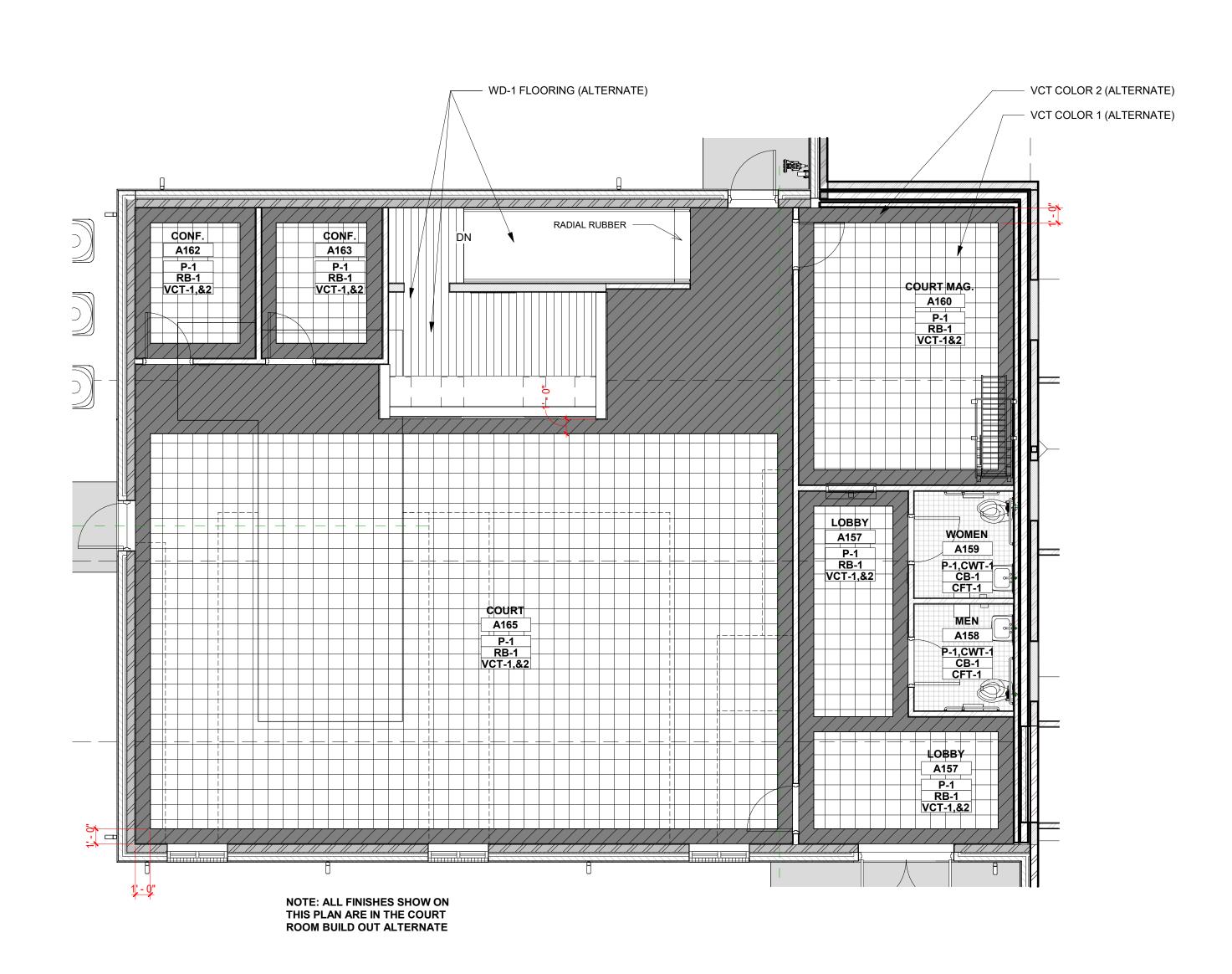
JOB NO. 24001

DESCRIPTION: FLOOR FINISH PLAN AND SCHEDULES BASE BID & FLOOR TRANSISITONS

SHEET

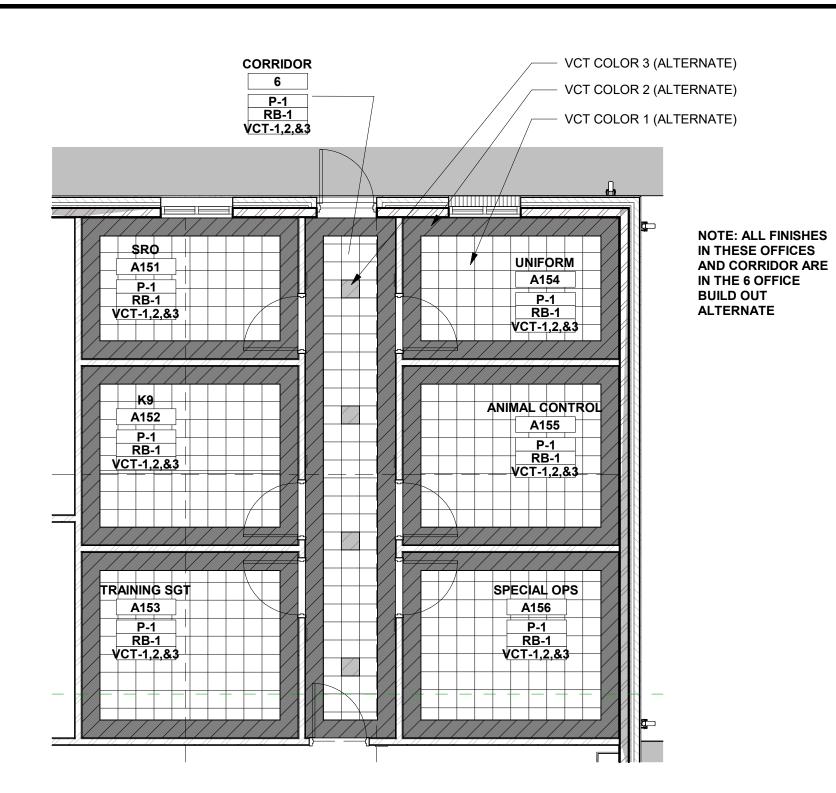
A9.2





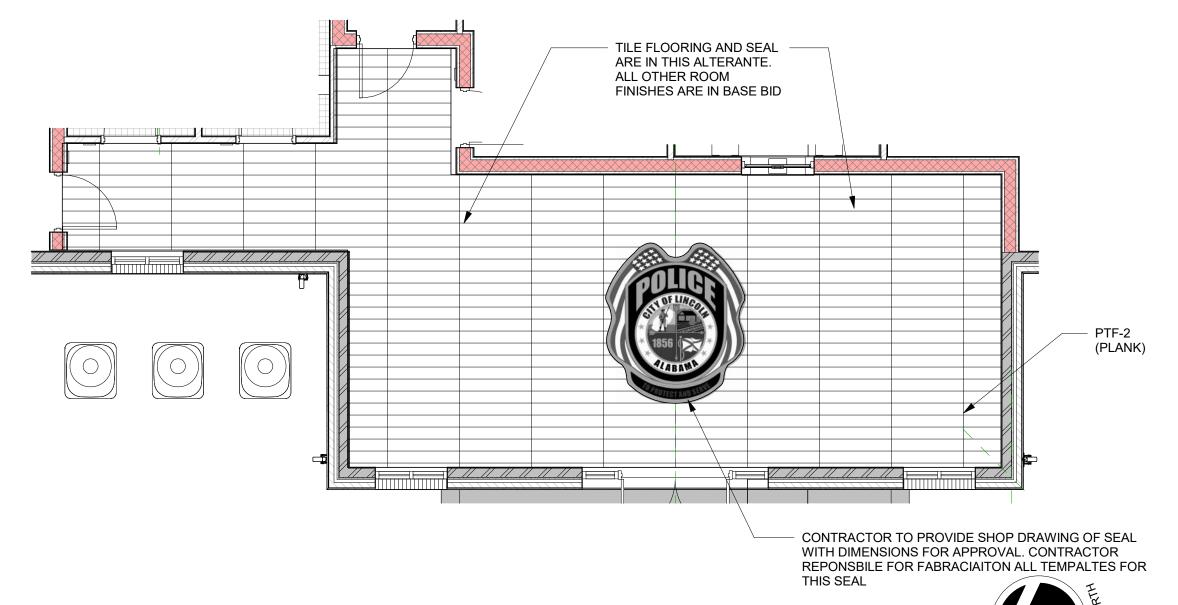




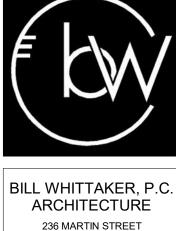


2 FLOOR PATTERN PLAN - 6 OFFICE BUILD OUT - ALTERNATE
A9.3 3/16" = 1'-0"





3 MAIN LOBBY FLOOR PATTERN PLAN - ALTERNATE
A9.3 3/16" = 1'-0"



236 MARTIN STREET ANNISTON, AL 36206 256.689.0238 WWW.BILLWARCH.COM



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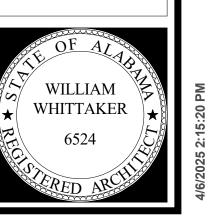


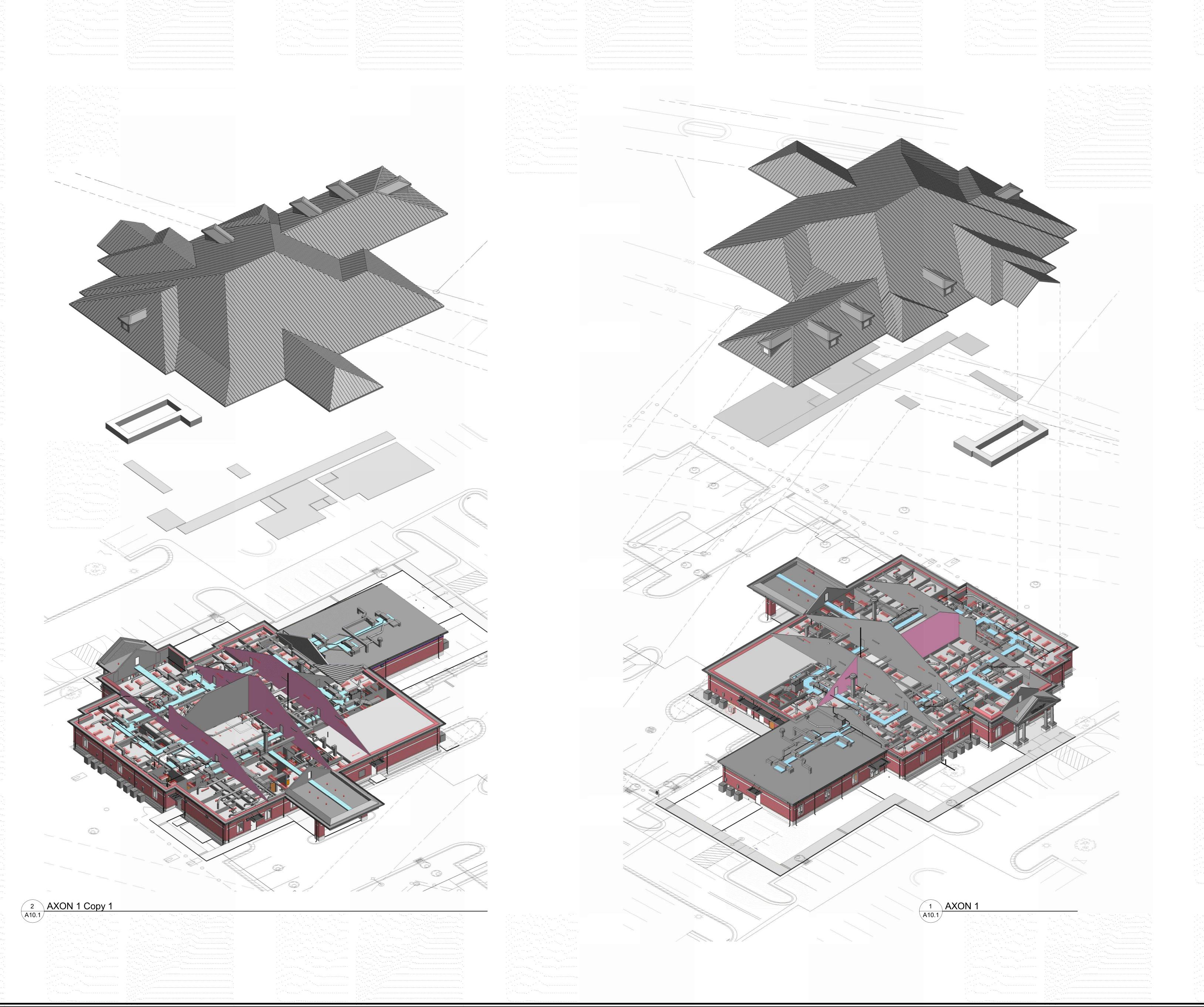
OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER TTL 11L 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
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ISSUE: 3.31.25 BID

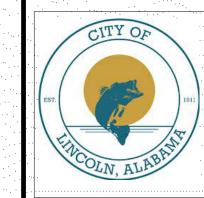
Attn: Tony Dodd

JOB NO. 24001 DESCRIPTION: FLOOR FINISH PLAN ALTERNATE

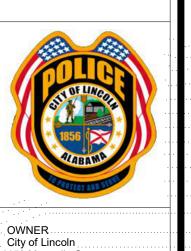








EW CITY OF LINCOLN OLICE DEPARTMENT LINCOLN, ALABAMA



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ISSUE: 3.31.25 BID

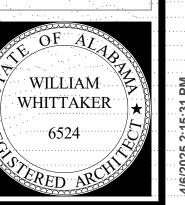
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24001

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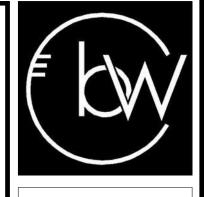
AXONOMETRICS

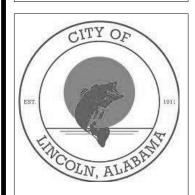
SHEET

A10.1

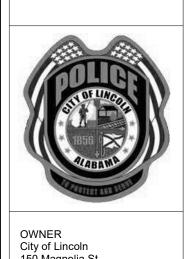


| REVISION - SHEET | NUMBER | 3 |
|-------------------------------------|--|---|
| Sheet Name | Current Revision | Current Rev Descripti |
| Structural Isometric | | |
| General Notes & Special Inspections | | |
| Typical Details | | |
| Typical Details | | |
| Schedules | | |
| Foundation Plan | | |
| Alternate 1 Plans & Details | | |
| Roof Framing Plan | | |
| Shelter Notes & Typical Details | | |
| Shelter Plans | | |
| Shelter Details | | |
| Sections and Details | | |
| Sections and Details | | |
| Sections and Details | | |
| Sections and Details | | |
| | Sheet Name Structural Isometric General Notes & Special Inspections Typical Details Typical Details Schedules Foundation Plan Alternate 1 Plans & Details Roof Framing Plan Shelter Notes & Typical Details Shelter Plans Shelter Details Sections and Details Sections and Details Sections and Details | Structural Isometric General Notes & Special Inspections Typical Details Typical Details Schedules Foundation Plan Alternate 1 Plans & Details Roof Framing Plan Shelter Notes & Typical Details Shelter Plans Shelter Details Sections and Details Sections and Details Sections and Details |





NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA



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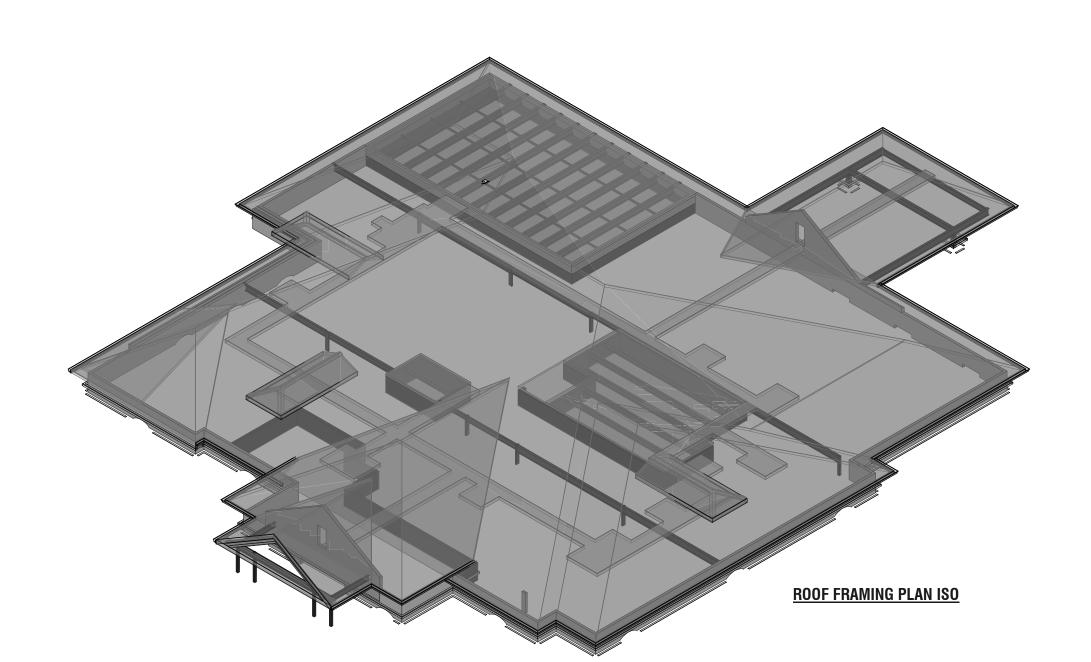
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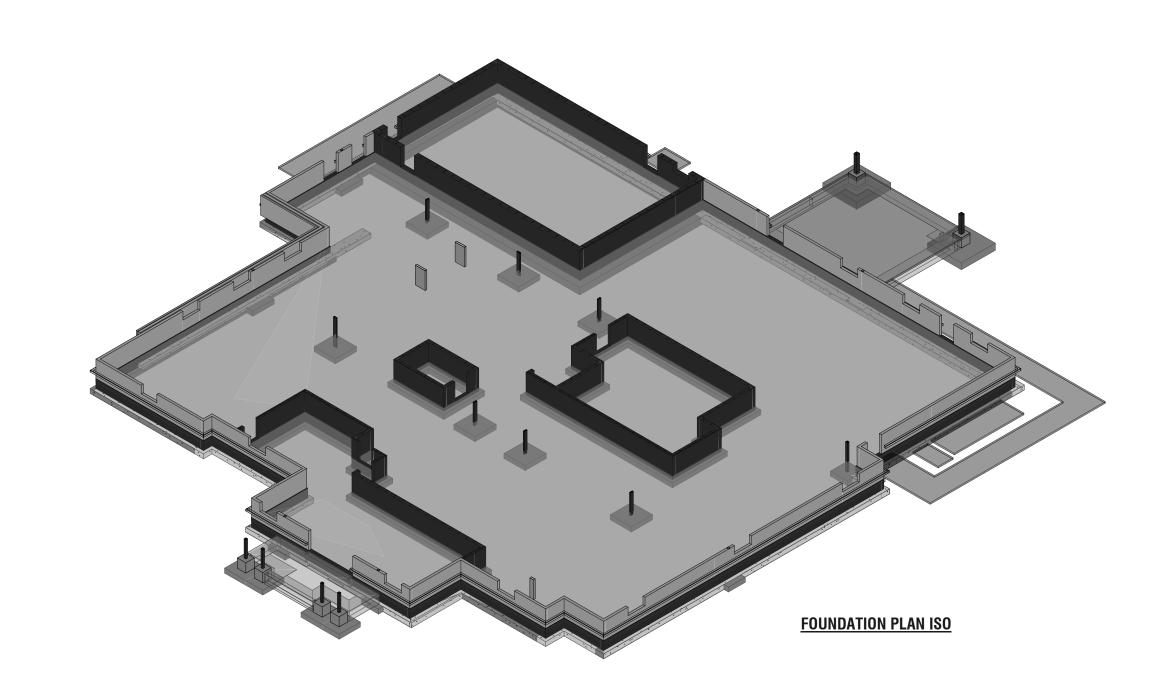
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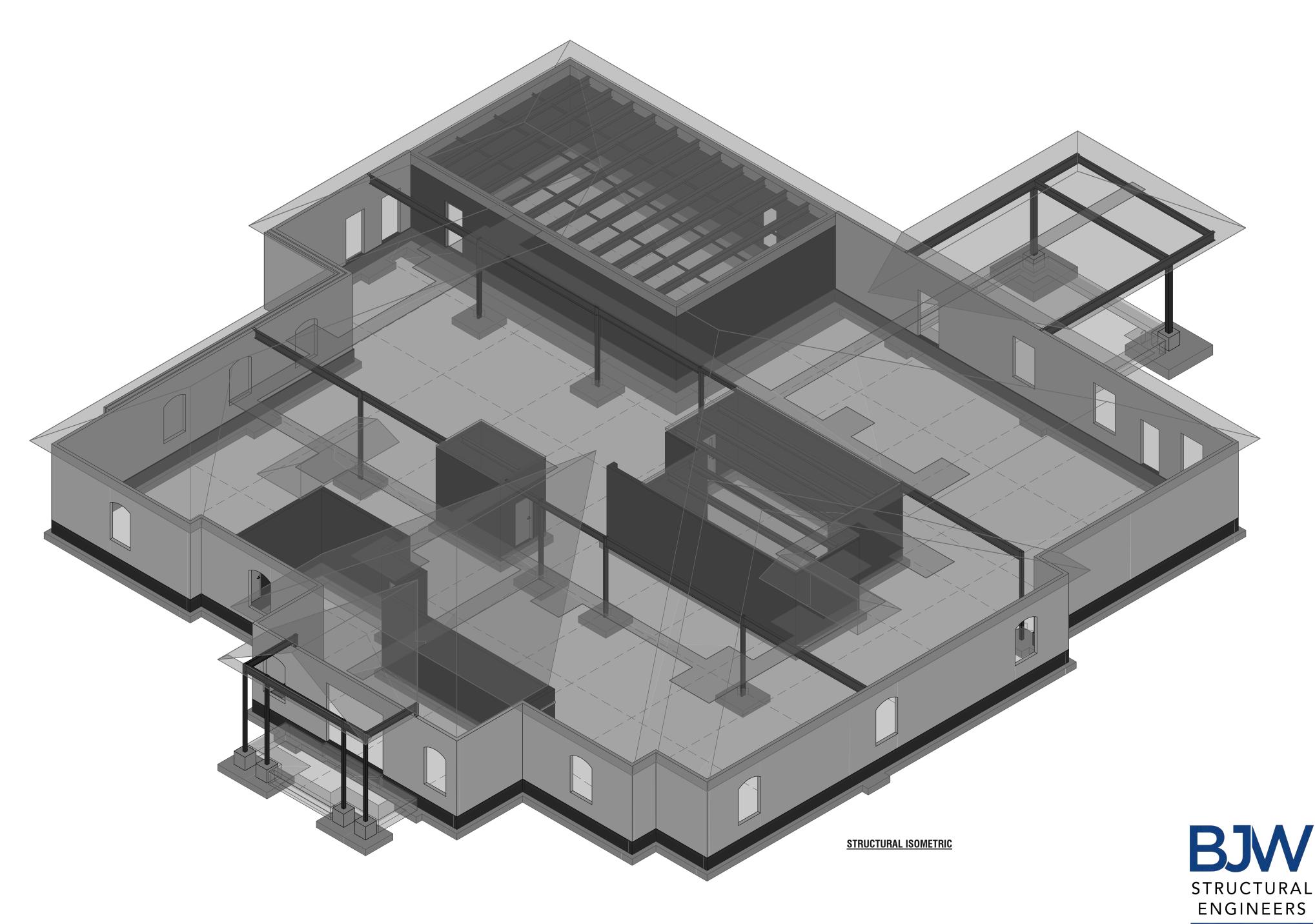
DESCRIPTION: Structural Isometric



| STRUCTURAL ISOMETRIC ALTERNATE 1 |
|----------------------------------|







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| Section Title | SCHEDULE OF SPECIAL INSPECTIO Inspection/Test/Certification | C or P | Extent/Comments |
|--|---|------------------------|--|
| Soils | Verify bearing capacities of soils beneath footings. | Periodic | As recommended in approved soils report and specified in earthwork |
| oils | Verify site preparation prior to beginning fill placement. Verify fill material type, placement method, lift thickness, and | Periodic | specifications. As recommended in approved soils report and specified in earthwork |
| oncrete Construction | compaction of fill material. Verify in-place density of compacted fill. Verify each proposed concrete mix for the project. | Periodic | specifications. For each proposed mix |
| oncrete Construction | Sample all concrete for strength tests and test concrete for slump, air content, temperature, and other tests. | Continuous | During placement operations. Reference concrete specifications for specification for |
| oncrete Construction | Inspect all concrete curing operations as noted in the extents column. | Periodic | Monitor during hot, cold and windy conditions. Reference concrete |
| oncrete Construction | Verify sawed joints in slabs on grade are comleted within 4 hours of the final set of the concrete | Continuous | specifications. |
| Masonry | Masonry foundation walls are excluded from inspections listed below. | D : 1 | |
| lasonry | Inspect proportions of site prepared mortar and grout. Inspect construction of mortar joints. Inspect reinforcement for correct size and spacing. Inspect work for correct location and type of embeds and anchor bolts. Inspect work for size and location of structural elements. | Periodic | At beginning of masonry construction and every 500 square feet of mason thereafter. |
| Masonry | Inspect prestressing materials for correct sizes and anchorages. Inspect prestressing technique, application, and measurement of prestressing force. | Periodic | At beginning of masonry construction and every 500 square feet of mason thereafter. |
| 1asonry | Inspect masonry cells and cleanouts prior to placement of grout. Inspect grout proportions. Inspect placement of reinforcement. | Periodic | Prior to grouting of masonry. |
| Masonry Masonry | Inspect grouting operations to ensure compliance with code and construction documents. Inspect proportions of site prepared mortar and grout. Inspect placement of masonry units and construction of mortar joints. Inspect reinforcement for correct size and spacing. Inspect work for correct size and location of structural | Continuous Periodic | During grouting. At beginning of masonry construction and every 500 square feet of mason thereafter. |
| Masonry Masonry | elements. Inspect masonry cells and cleanouts prior to placement of grout. Inspect placement of all grout. Inspect type size and location of anchors, including details of anchorage of masonry to structural members, frames or | Continuous Continuous | During grouting. During installation of anchors. |
| Masonry | other construction. Inspect application and measurement of prestressing forces. | Continuous | During tensioning. |
| nasonry Nasonry | Inspect welding of reinforcing bars. | Continuous | During installation and welding of all reinforcing. |
| lasonry | Inspect protection of masonry during cold weather and hot weather. | Periodic | During periods with temperatures below 40 degrees or above 90 degrees. |
| Aasonry Aasonry | Inspect preparation of grout specimens, mortar specimens and / or prisms. Verify compliance with all required inspection provisions of the construction documents and approved submittals. | Continuous Periodic | During preparation of all specimens. As required for duration of project. |
| Steel Construction | Steel Construction | | |
| | Tasks Prior to Welding Welding precedure specifications (WPS) available | Perform | |
| | Manufacturer certifications for welding consumables available | Perform | |
| | Material identification (type/grade) Welder identification system | Observe Observe | The fabricator or erector, as applicable, shall maintain a system by which welder who has welded a joint or member can be identified. Stamps, if use |
| | Fit-up of groove welds (including joint geometry): joint preparation, dimensions (alignment, root opening, roof face, bevel), cleanliness (condition of steel surfaces), tacking (tack weld quality and location), backing type and fit | Observe | shall be the lowe-stress type. |
| | Configuration and finish of access holes | Observe | |
| | Fit-up of fillet welds; dimensions (alignment, gaps at root), cleanliness (condition of steel surfaces), tacking (tack weld quality and location) | Observe | |
| | Check welding equipment | As needed | |
| | Tasks During Welding Use of qualified welders | Observe | |
| | Control and handling of welding consumables; packing, exposure control | Observe | |
| | No welding over cracked tack welds Environmental conditions; wind speed limits, precipitation and temperature | Observe | |
| | Environmental conditions; wind speed limits, precipitation and temperature WPS followed; settigns on welding equipment, travel speed, selected welding materials, shiedlding gas type/flow rate, | Observe Observe | |
| | preheat applied, interpass temperature maintained (min/max), proper position (F,V,H,OH) Welding techniques; interpass and final cleaning, each pass within profile limitations, each pass meets quality | Observe | |
| | requirements Tasks After Welding | | |
| | Welds cleaned | Observe | |
| | Size, length and location of welds Welds meet visual accecptance criteria; crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, | Perform and | |
| | weld size, undercut, porosity | Document | |
| | Tasks Prior to Bolting | | Not required for slip-critical connections when bolts are installed with turn-of-nut method with matching techniques, the direct-tension-indicator method, or the twist-off-type tension control bolt method. |
| | Manufacturer's certifications avalable for fastener materials | Perform | |
| | Fasteners marked in accordance with ASTM requirements Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | Observe Observe | |
| | Proper bolting procedure slected for joint detail | Observe | |
| | Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | Observe | |
| | Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and | Observe and | |
| | methods used Proper storage provided for bolts, nuts, washers and other fastener components | Document Observe | |
| | Tasks During Bolting | | |
| | Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required Joint brought to the snug-tight condition prior to the pretensioning operation | Observe Observe | |
| | Fastener component not turned by the wrench prevented from rotating | Observe | |
| | Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges | Observe | |
| | Tasks After Bolting Inspect that all parts of the assembly have full contact and the bolts are tensioned to a minumum snug-tight connection. Hand tightening using a spud wrench | Perform | Snug-tight connections only. |
| | Document acceptance or rejection of bolted connections | Perform | |
| lood Construction | Inspect fabricated wood trusses and shop built components. | Periodic | Inspect truss production in shop unless fabricator is approved by building official and submits certification of compliance at end of scope of work. Inspect 10% of trusses. Inspect 100% of trusses if discrepancies are |
| Cold-formed Steel Framing | Inspect welding operations of cold-formed steel framing elements of the seismic-force-resisting system. | Periodic | observed. |
| old-formed Steel Framing | Verify bracing locations and layout. Verify member sizes. Verify holdowns installed correctly. Inspect screw | Periodic | |
| torage Racks and Access Floors | attachment, bolting, anchoring and other fastening of cold-formed steel framing components. Inspect anchorage of access floors and storage racks 8 feet or greater in height. | Periodic | |
| rchitectural Components | Inspect erection and fastening of exterior cladding and interior and exterior veneer. | Periodic | |
| rchitectural Components lechanical Electrical Components | Inspect erection and fastening of all non-load bearing walls. Inspect mechanical and electrical components per 1707.07 as determined by MEP designer(s). | Periodic Periodic | |
| echanical Electrical Components | Inspect mechanical and electrical components per 1707.07.01 as determined by MEP designer(s). | Periodic | |
| lechanical Electrical Components lechanical Electrical Components | Inspect mechanical and electrical components per 1707.07.02 as determined by MEP designer(s). Mechanical and Electrical Components per 1707.07.03 as determined by MEP designer(s). | Periodic Periodic | |
| eismic Isolation System | Inspect fabrication and installation of isolator units and energy dissipation devices if used as part of the seismic | Periodic Periodic | |
| lasonry | isolations system. Certificates of compliance used in masonry construction | | Prior to construction. |
| lasonry lasonry | Verify masonry f'm. | | THOLEG CONSTRUCTION. |
| Masonry Masonry | Test masonry f'm. Verification of proportions of materials in mortar and grout as delivered to the site | | |
| esting for Seismic Resistance | | | |
| | Review certified mill test reports of all concrete reinforcing. | | |
| Reinforcing Steel | Verify reinforcing steel weldability | | |
| | Verify reinforcing steel weldability Ultrasonically test for discontinuities behind and adjacent to welds with base metal thicker than 1.5 inches where | | |
| Reinforcing Steel Reinforcing Steel | | | |

Contractor shall compare structural drawings and architectural drawings. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or

Engineer before bidding. In all cases, more stringent requirement governs, Architectural dimensions and elevations will control. Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval. Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.

Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction. Review of submittal information shall be for general compliance with the contract documents and shall not include checking of detailed dimensions or detailed quantities. Shop drawing detailer shall check all architectural and mechanical drawings for attachments, clips, openings or duct work and shall include these items in the shop drawings. Site visits by Engineer of Record are not considered inspections or special inspections, rather are observations for general compliance with contract documents.

Submit electronic shop drawings only. Reference code for loading IBC 2018/ASCE 7-16

a. Risk Category IV b. Wind Load 1) Basic Wind Speed (3 sec gust) 119 mph

Wind Exposure C 3) Internal Pressure Coefficient +/- 0.18

4) Velocity Pressure (qz) 29.1 psf 5) Components & Cladding Pressures see table and diagram

c. Snow Load 1) Ground Snow Load (Pg) 5 psf 2) Flat Roof Snow Load (Pf) 5 psf 3) Snow Exposure (Ce) 1.0

5) Thermal Factor (Ct) 1.0 d. Seismic Load 1) Importance Factor 1.5

4) Importance Factor 1.25

2) Mapped Spectral Response Accelerations a) Ss 0.253

b) S1 0.094 Site Class D 4) Spectral Response Coefficients a) Sds 0.27

b) Sd1 0.151 5) Seismic Design Category D6) Base Seismic-Force-Resisting System(s) and Response Modification Factor a) Cold formed wall systems using flat strap bracing 4

7) Design Base Shear 50 kips 8) Seismic Response Coefficient (Cs) 0.101

9) Analysis Procedure = Equivalent Lateral Force e. Live Load

1) Roof Load 20 psf OUNDATIONS Foundation design for this project was based on soils information provided by Terracon, Inc Project No. E1245042

Bearing value of soil: 2500 psf All footings are to bear on engineered fill, see Geotech report for requirements. Provide 8'-0" long top steel reinforcing, same size as bottom steel, at transitions between engineered fill and undisturbed soil locations.

Install corner bars at all footing intersections and corners (Provide lap length e.w.) Step all footings where necessary to provide a minimum of 1'-0" below the finish grade or 0'-8" below finish floor.

All footing elevations are given to the top of the footings. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any

9. Coordinate foundation elevations with plumbing requirements. Step footings as required to clear plumbing lines. 10. Provide drainage for all retaining walls, see architectural for notes and details.

CONCRETE MASONRY UNITS (CMU) All masonry work to be in accordance with "Building Code Requirements for Concrete Masonry Structures" TMS 402-2016 and "Specifications for Masonry Structures" TMS 602-2016 Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade whichever is higher.

Use ladder type joint reinforcement (Dur-O-Wall SW DA3100 or better) at 16" on center in all cavity walls where brick is used for one or more of the wythes. Use truss type joint reinforcement (Dur-0-Wall SW DA3100 or better) at 16" o/c. in all other masonry walls.

Provide joint reinforcement at 8" o/c. for all walls constructed with stack bond. Use Type "M" or Type "S" mortar in accordance with IBC Table 2103.7(1).

Minimum compressive strength of concrete masonry f'm = 2000 psi. Submit for review test data on strength of units before starting any masonry work. Minimum compressive strength of grout f'm = 2000 psi. Use 3/8" max size aggregate. See Special Inspection Schedule for any testing requirements. Grout slump shall be 8" to 11".

. Use "Fine" grout for all reinforced piers and reinforced wall in accordance with ASTM C 476. 10. Each grout lift shall not exceed 5'-0" unless cleanouts are provided in the bottom course. 11. Fill cells under all lintels with grout.

12. Provide lintels over all openings through wall. See lintel details for reinforcement.

13. Unless otherwise noted provide control joints in all walls 4'-0" from wall intersections or corners and at 20'-0" o.c. 14. Extend all horizontal steel and bond beams thru control joints.

15. Unless noted, all bars are to be located at the center of cell. Where bars are specified at each face, provide minimum 3/4" clear space between reinforcement and CMU face shell. 16. Anchor bolts into grouted cell locations only, unless noted otherwise.

17. Non Load Bearing Interior CMU walls shall be reinfored with minimum #4 bars in fully grouted cells @ 4'-0" o.c. Provide Bond Beam at top of wall. Brace top of wall to roof structure with rigid bracing @ 8'-0" o.c.. Alternate each direction 18. Anchor all steel columns to CMU walls @ 24" o.c. vertically into reinforced cell. See typical detail.

REINFORCING STEEL AND CONCRETE . All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI 318-19).

All detailing is to be in accordance with "ACI Detailing Manual" SP-66 Use of Calcium Chloride, Chloride lons, or other salts in concrete are prohibited.

. Concrete Properties: See Schedule

a. All concrete must obtain 7 day strength of 70% of design strength. b. Concrete mixes may replace cement with other cementitious materials, submit for approval.

c. Combined weight of all replacement cementitious materials may not exceed 25% of the total cementitious weight. d. Concrete mixes may use water reducers, accelerators or retarders with prior approval. e. Do not provide air entrainment in concrete mixes for interior slabs.

All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete. Welded wire fabric shall be ASTM 185 and shall lap 2 cross wires or 6" whichever is greater on all sides. All laps shall be wired together.

Provide (2) #4 bars x 4'-0" at re-entrant corner locations Typical. Locate 3" away from corner and space 1'-0" apart. . All slabs on grade are 4", unless noted. Slabs are to be placed on 10 Mil, PVC vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4 x W1.4 WWF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed at a maximum of 12'-0" on center. The aspect ratio of the joint layout should not exceed 1.5. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile.

Components and cladding pressures - Roof (Figure Figure 30.3-2G)

Width

Eff. area +GC_p

20.0 0.58

50.0 0.42

10.0 0.70

50.0 0.42

200.1 0.30

10.0 0.70

100.0 0.30

10.0 0.70

50.0 0.42

100.0 0.30

The final net design wind pressure, including all permitted reductions, used in the design shall not be less

0.70

0.30

0.42

0.30

200.1 0.30 -1.00

-1.40

-0.98

-1.23

-1.00

-1.46

-1.23

-1.00

-2.00

-1.46

100.1 0.30 -0.80 14.0 #

-1.22 22.1

-2.00 25.6

-2.00 25.6

-1.23 14.0 #

14.0 #

14.0 #

14.0 #

(ft²)

100.0

50.0

200.1

-GC_p Pres (+ve) Pres (-ve)

(psf)

-28.5

-63.4

-41.0

(psf)

9. All slabs on grade are 4", unless noted. Slabs are to be placed on Stega 15 mil vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4 x W1.4 WWF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed at a maximum of 12'-0" on center. The aspect ratio of the joint layout should not exceed 1.5. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile. 10. Minimum concrete cover for reinforcement:

a) Footings 3" bottom & sides, 2" top b) Slabs on Grade 3/4" top, 3" bottom c) Slabs on Deck 3/4"

d) Cast-In-Place Walls

Surfaces exposed to weather or soil 2" - #6 and greater, 1-1/2" - #5 and smaller Other surfaces 3/4"

<=10 sf

20 sf

50 sf

>100 sf

<=10 sf

100 sf

50 sf

100 sf

>200 sf

<=10 sf

50 sf

100 sf

>200 sf

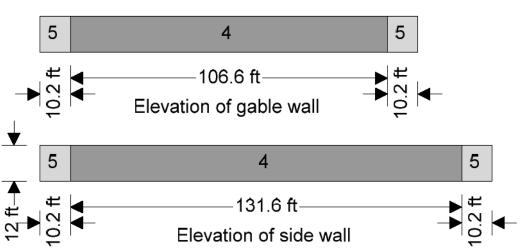
<=10 sf

11. Provide corner bars at all wall and footing intersections. 13. Use 3/4" chamfer for all exposed corners unless noted

12. Do not run conduit or pipe in slabs or beams unless noted on the plans or specific prior approval from the engineer.

Components and cladding pressures - Wall (Table 30.3-1)

| Component | Zone | Length (ft) | Width (ft) | Eff. area (ft²) | +GC _₽ | -GC _P | Pres (+ve) (psf) | Pres (-ve) (psf) |
|-----------|------|----------------|---------------|--------------------|------------------|------------------|---------------------|---------------------|
| <=10 sf | 4 | - | - | 10.0 | 1.00 | -1.10 | 34.3 | -37.2 |
| 50 sf | 4 | - | - | 50.0 | 0.88 | -0.98 | 30.7 | -33.6 |
| 200 sf | 4 | - | - | 200.0 | 0.77 | -0.87 | 27.6 | -30.5 |
| >500 sf | 4 | - | - | 500.1 | 0.70 | -0.80 | 25.6 | -28.5 |
| <=10 sf | 5 | - | - | 10.0 | 1.00 | -1.40 | 34.3 | -46.0 |
| 50 sf | 5 | - | - | 50.0 | 0.88 | -1.15 | 30.7 | -38.8 |
| 200 sf | 5 | - | - | 200.0 | 0.77 | -0.94 | 27.6 | -32.6 |
| >500 sf | 5 | - | - | 500.1 | 0.70 | -0.80 | 25.6 | -28.5 |



than 16psf acting in either direction

Components & Cladding

EPOXY AND MECHANICAL ANCHORS 1. All anchors shall be installed per Manufacturer's Printed Installation Instructions (MPII). 2. Contractor must get pre-approval from engineer-of-record before using post-installed adhesive or mechanical anchors not detailed or specified in these drawings. All post-installed anchors must have an evaluation report showing code compliance with the intended application.

3. Adhesive anchors into concrete to be Simpson SET-3G or approved equal. Adhesive anchors into masonry to be Simpson SET-XP. Typical Embedment shall be 12 x Dia. Design bond strength has been based on cracked concrete, ACI 355.4 Temperature Category B and installations into dry holes drilled into concrete that has cured for at least 21 days using a

drill bit and technique that is qualified by the manufacturer. 4. All mechanical anchors to be Simpson TITEN HD Screw Anchors or approved equal. Typical Embedment shall be 8 x Dia.

5. All Powder Actuated Fasteners (PAF) to be 0.157 Simpson PDPA pins with 1 ¼" minimum embedment into concrete or masonry. For installations into steel, PAF shall completely

1. All detailing, fabricating, and erection of structural steel shall be in accordance with the AISC 360-16 "Specifications for Structural Steel Buildings". All reactions shown are ASD

2. All connections are to be detailed as Type 2 "simple frame connections". 3. All structural steel W shapes shall be ASTM A992.

4. All structural steel Tube sections shall be ASTM A500 Grade C. 5. All structural steel Pipe sections shall be ASTM A501.

6. All structural steel channels, angles and other sections shall be ASTM A36, unless noted. Headed Studs shall be Type B Shear Connectors.

8. Shop and field connections shall be welded with E-70XX electrodes or bolted with 3/4" dia. A-325N or A-325F bolts, unless noted. 9. Use 3/4" cap and bearing plates, unless noted. 10. Use 3/4" dia x 1'-0" long ASTM 1554 Grade 36 anchor bolts, unless noted. In lieu of cast bolts, 3/4"x1'-0" long HAS rods epoxied with Hilti HVA epoxy, or equal, may be used with

11. Grout under baseplates with ASTM C 1107 cementitious 6000 psi Non-Shrink Grout. 12. All steel exposed to weather shall be hot dipped galvanized per ASTM A123.

13. All steel exposed to earth shall receive bitumen coating. 14. Structural steel shall be shop primed per SSPC paint system No. 7. Primer shall be SSPC paint with a minimum thickness of 2.0 MILS. Omit Paint at surfaces to be fireproofed.

WOOD (STRUCTURAL) Provide minimum of 2"x 6" top and bottom chord for all truss members

2. Truss connections to walls and framing shall be Designed and Specified by Truss Supplier.

3. Field Modification or Fabrication of trusses is not allowed unless written approval is provided by Truss Supplier. 4. All framing noted as "LVL" shall have the following minimum properties:

a. Modulus of Elasticity "E" = 1,900,000 psi b. Allowable Bending Stress "Fb" = 2,900 psi

c. Allowable Shear Stress "Fv" = 270 psi

d. Allowable Compression Perp to Grain "Fc-perp" = 845 psi 5. All multiple ply LVL beams are to be fastened together per the manufacturer's requirements for top-loaded and side-loaded beams. Beams that support joists with top flange joist

hangers shall receive the side-loaded beam fastening pattern. 6. Roof decking shall be 5/8" APA rated sheathing, Exposure 1 with 40/20 span rating. Provide plyclips at all roof sheathing connections, unless noted otherwise. 7. roof sheathing shall be nailed with 8d rinkshank nails at 6" o.c.

COLD-FORMED METAL (CFS) FRAMING (Structural) 1. All detailing, fabricating, and erection of light gauge steel shall be in accordance with the AISI S240-20 "North American Standard for Cold-Formed Steel Structural Framing". 2. All studs, joist, tracks, bridging, and accessories shall be a minimum of G60 galvanized and have minimum yield strength of 33ksi, unless noted otherwise.

. Typical studs are 600S162-43 @ 16" o.c., see Architectural for exterior and interior sheathing.

4. Top and bottom tracks to 600T125-43 unless noted otherwise. 5. Provide double studs at all wall intersections, jambs, corners, and intersections. At all openings in walls provide jambs per typical header detail.

7. Provide rigid blocking at a maximum of 4'-0", see typical detail. 8. All wall studs to have full bearing at top and bottom of stud.

CONSTRUCTION MATERIALS TESTING & SPECIAL INSPECTIONS 1. The owner will provide testing and special inspection under a separate contract. See this sheet or project specifications for schedule of special inspections.

<u>DELEGATED DESIGN – EXTERIOR COLD-FORMED METAL (CFS) WALL FRAMING</u> 1. Reference Design Loads for Wind, Snow, and Seismic loads on CFS wall framing.

2. Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, and detail views. 3. Provide calculations for all CFS members, connections of CFS to CFS, and connections of CFS to primary structure. Calculations to be signed and sealed by a Professional Engineer licensed in the State of the Project.

<u>Delegated Design – Stairs, Ladders, Handrails, and Guardrails</u> 1. Design Loads for design of stairs, ladders, handrails, and guardrails. a. <u>Handrails/Guardrails</u>

200 lb force applied in any direction at any point on handrail or top rail 50 plf force applied in any direction at any point on handrail or top rail 3) 50 psf force on intermediate rails, openings, and space between rails

300 lb force applied at any point in any direction on rungs, min one 300 lb load every 10 ft of ladder height 100 lb force in any direction at any height at each side rail extension

Ships ladders with treads designed for same loads as Stairs

1) 250 lb force applied in any direction at any point on grab bar Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, and detail views. 3. Provide calculations for all members, connections of members to members, and connections of members to primary structure. Calculations to be signed and sealed

by a Professional Engineer licensed in the State of the Project. <u>DELEGATED DESIGN – METAL PLATE CONNECTED WOOD TRUSSES</u> Truss Supplier shall be certified by Truss Plate Institute's Quality Assurance Program.

2. Reference Design Loads for Wind, Snow, and Seismic loads on wood trusses.

 a. <u>Gravity Loads on Wood Trusses</u>
 1) Top Chord Live 20 psf, Top Chord Dead 10 psf, Bottom Chord Dead 10 psf 2) Top Chord Live Load Reduction allowed based on Slope and Tributary Area

3. Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, and detail views.

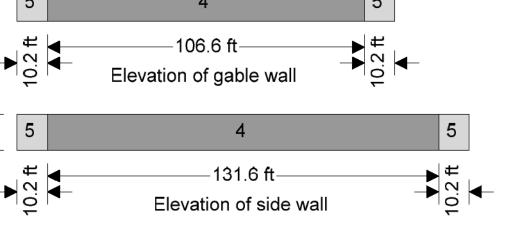
4. Provide calculations for all CFS members, connections of CFS to CFS, and connections of CFS to primary structure. Calculations to be signed and sealed by a Professional Engineer 5. Truss Supplier to provide a Field Copy of truss calculation package along with truss plan layout to Superintendent that specifically identifies locations of truss member permanent

<u>DELEGATED DESIGN – ALUMINUM AWNINGS/CANOPIES</u> 1. Reference Architectural drawings for layout, location, size, configuration, etc for all awnings and canopies

2. Reference structural typical details for blocking details at frame and tie rod connection points. Contractor to field locate blocking based on connection points shown in awning shop

3. Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, and detail views. 4. Provide calculations for all members and connections. Calculations to be signed and sealed by a Professional Engineer licensed in the State of the Project.

| | . | _ | 1(| 06.6 ft— | | # | | |
|----|----------------|----------|----|----------|------|----------|------|-------|
| | 5 | | | 4 | | 5 | | |
| | | | | | | | | |
| sf | 5 | - | - | 500.1 | 0.70 | -0.80 | 25.6 | -28.5 |
| f | 5 | - | - | 200.0 | 0.77 | -0.94 | 27.6 | -32.6 |
| | 5 | - | - | 50.0 | 0.88 | -1.15 | 30.7 | -38.8 |
| sf | 5 | - | - | 10.0 | 1.00 | -1.40 | 34.3 | -46.0 |
| sf | 4 | - | - | 500.1 | 0.70 | -0.80 | 25.6 | -28.5 |
| f | 4 | - | - | 200.0 | 0.77 | -0.87 | 27.6 | -30.5 |
| | 4 | - | - | 50.0 | 0.88 | -0.98 | 30.7 | -33.6 |



24001 DESCRIPTION: General Notes & Special Inspections

JOB NO.

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05/13/24

FOR PERMIT

Lincoln, AL 35096

Attn: Lew Watson

Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER

10 Inverness Center Pkwy

STRUCTURAL ENGINEER Barnett, Jones, Wilson

MECHNICAL/PLUMBING/FIRE

PROTECTION ENGINEER Whorton Engineering, Inc.

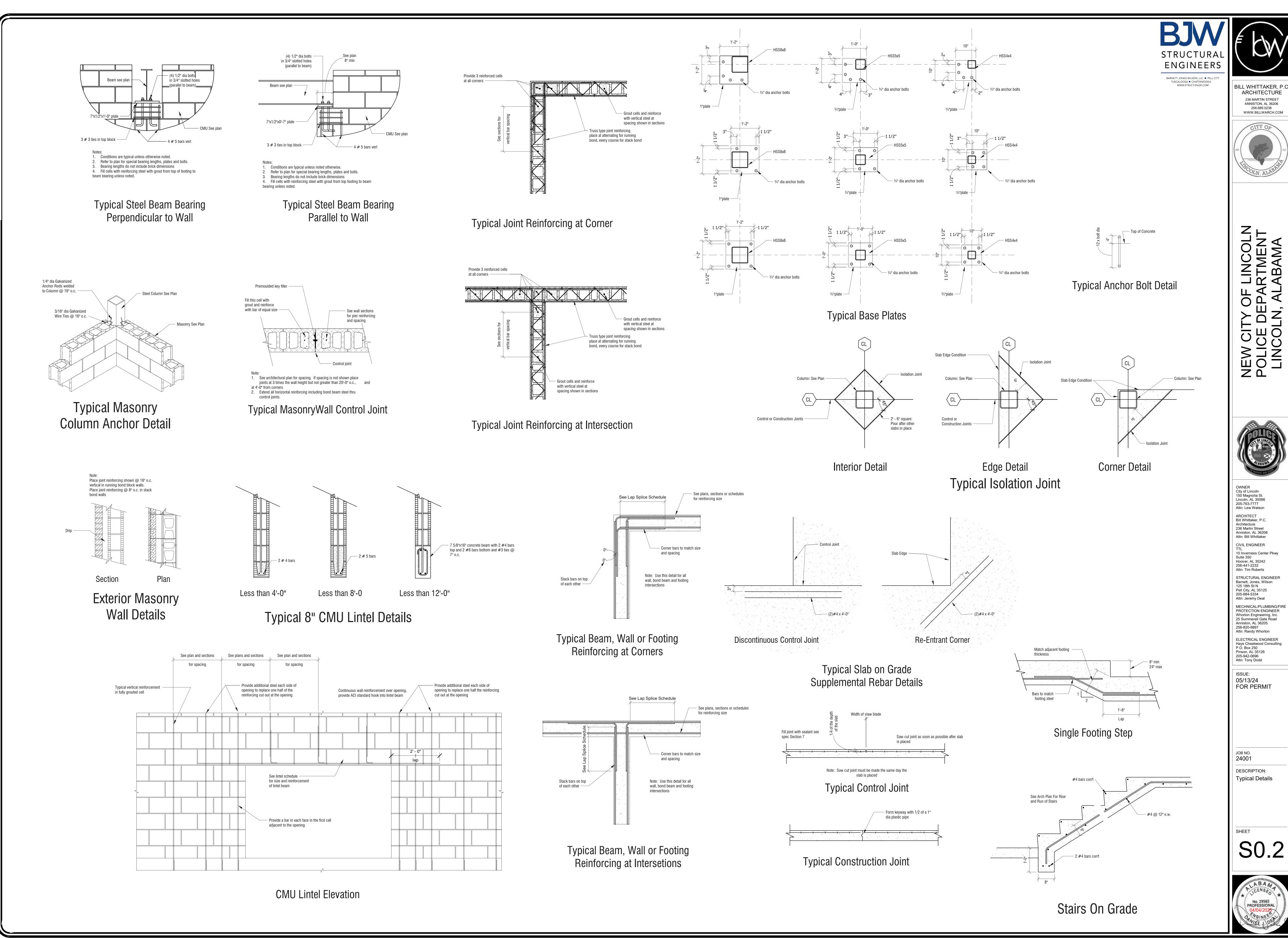
25 Summerall Gate Road Anniston, AL 36205

ELECTRICAL ENGINEER

Hays Cheatwood Consulting

STRUCTURAL ENGINEERS





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256.689.0238

5" wide x 16 gage flat strap x-bracing each side of wall(at approximately 45 degree angles) Where bracing exceeds 45 degrees, provide (2)equal

─ 1/2" dia. x 4" TitenHD at 24" o.c.

Line of concrete slab

NOTE: See plans for strap bracing locations.

Typical Cold Formed X-Bracing

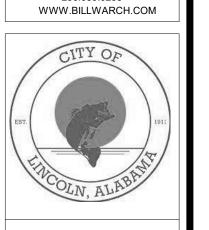
2 -3/4"x6" TitenHD at x-bracing connections

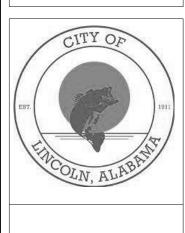
length X-bracing sections —

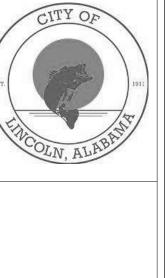
ENGINEERS

BARNETT JONES WILSON, LLC ● PELL CITY TUSCALOOSA ● CHATTANOOGA WWW.STRUCT-ENGR.COM







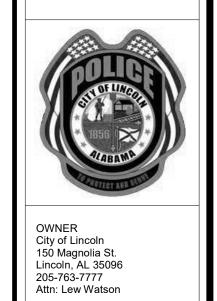


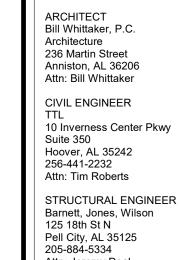










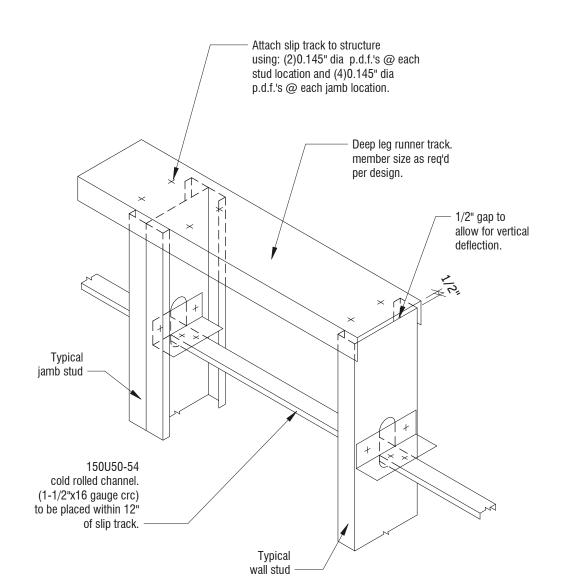


Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
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Attn: Tony Dodd

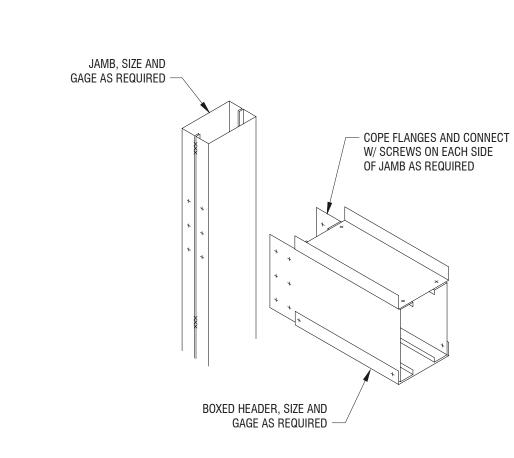
ISSUE: 05/13/24 FOR PERMIT

JOB NO. 24001 DESCRIPTION: Typical Details

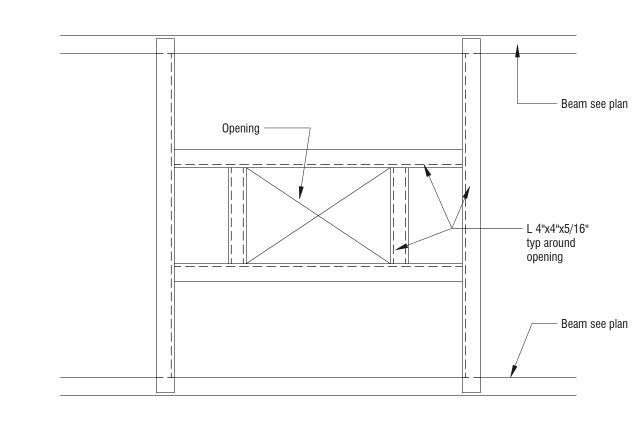




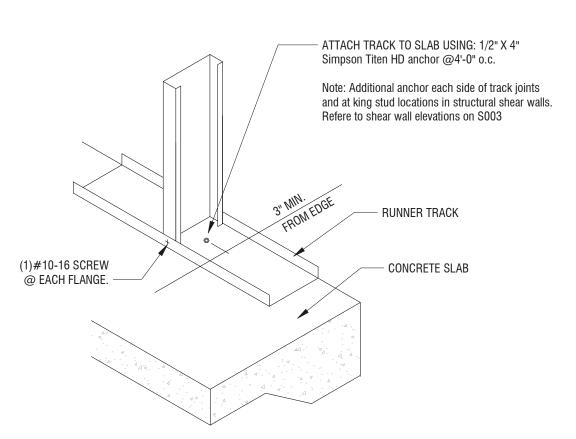
Typical Slip Track Connection



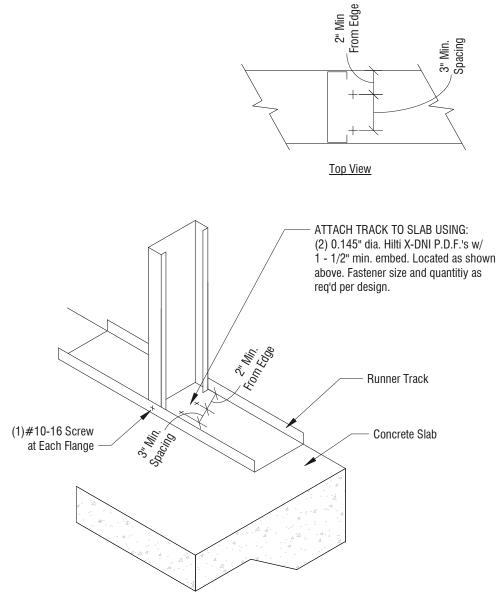
Typical Header Connection



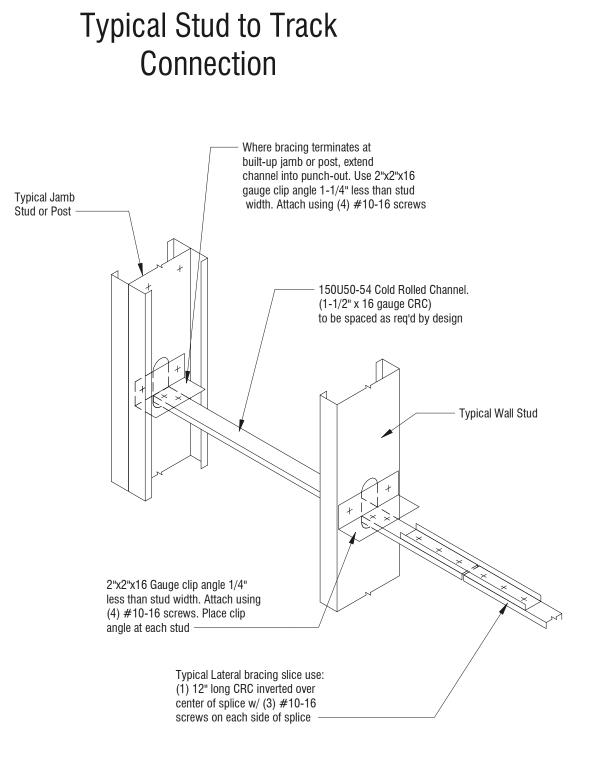
Typical Frame at Concrete Roof Deck Opening



TYPICAL TRACK TO SLAB CONNECTION



Typical Stud to Slab Connection



- (1)#10-16 SCREW

— STUD SEE DETAIL SHEET

- (1)#10-16 SCREW

@ EACH FLANGE.

FOR SIZE & SPACING

screw all members

with #6 wafer head self drilling screws

@ 4" along blocked panel edges and then

@ 8" along studs behind panel interior. -

triple studs

at x-bracing ends —

Install sheathing horizontally and block all panel edges —

L4x3x1/4 (llv) weld x-brace to angle with min 9 1/2"

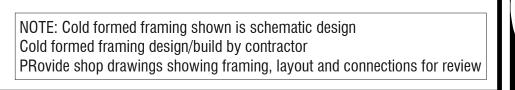
of 1/8" filletweld at each end —

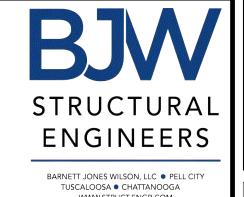
@ EACH FLANGE.

ATTACH 2X6 CONT NAILER W/ (2) #10 SCREWS @ EACH STUD LOCATION ¬

BOTTOM TRACK MATCH STUD SIZE & THICKNESS U.N.O. —

Typical Rigid Lateral Blocking





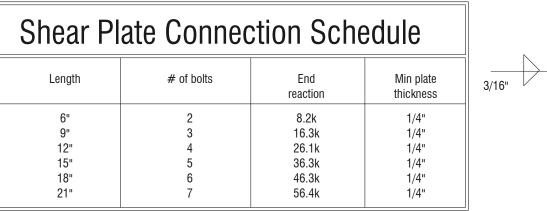


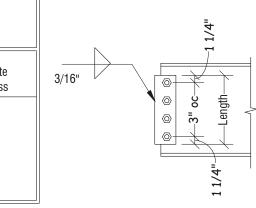
| Metal Deck Attachment Schedule | | | | | | | |
|--------------------------------|-------------|--------------------------|--------------------------|--|--|--|--|
| Area | Deck | Support Fastener/Pattern | Sidelap Fastener/Pattern | | | | |
| Slab on Steel Beams | 1.0C x 24ga | weld washer 33/4 | 1 - #10 TEK screws | | | | |

| Reinforcing Steel Lap Splice Lengths | | | | | | | | |
|--------------------------------------|---------|-----------|------------|---------|--|--|--|--|
| | Column | Bm, Ftg & | CMU Wall | | | | | |
| Bar Size | Splices | Top Bars | Other Bars | Splices | | | | |
| # 3 | 12" | 19" | 15" | 18" | | | | |
| # 4 | 15" | 25" | 19" | 24" | | | | |
| # 5 | 19" | 31" | 24" | 30" | | | | |
| # 6 | 23" | 37" | 29" | 36" | | | | |
| #7 | 26" | 54" | 42" | 42" | | | | |
| #8 | 30" | 62" | 48" | 48" | | | | |
| # 9 | 34" | 70" | 54" | 54" | | | | |
| # 10 | 38" | 79" | 61" | 60" | | | | |
| # 11 | 42" | 87" | 67" | 66" | | | | |

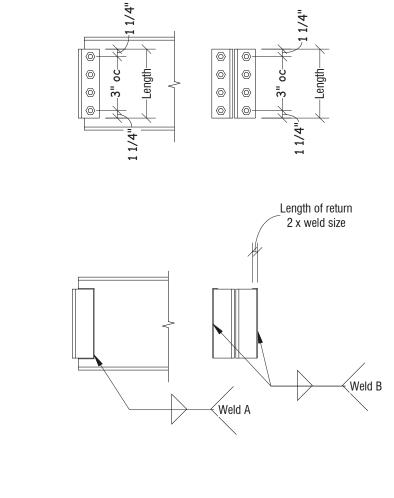
Notes:
 Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars.
 All horizontal reinforcing bars in walls may be detailed as "Other Bars".
 All corner bars may be detailed as "Other Bars".

| Brick Lintel Schedule | | | | | |
|---|---|-----------------------|--|--|--|
| Span | Lintel Size | Bearing Each End | | | |
| <= 4'-0" <= 6'-0" <= 8'-0" <= 10'-0" <= 12'-0" <= 14'-0" | L 3 1/2"x 3 1/2"x 5/16" L 4"x3 1/2"x5/16" L 5"x3 1/2"x5/16" L 6"x3 1/2"x5/16" L 7"x4"x3/8" L 8"x4"x7/16" | 8" 8" 8" 16" | | | |





| Length | # of bolts | End reaction | Min angle thickness |
|---------|------------|-----------------|------------------------|
| 5-1/2" | 2 | 37.1k | 5/16" |
| 8-1/2" | 3 | 55.3k | 5/16" |
| 11-1/2" | 4 | 72.7k | 5/16" |
| 14-1/2" | 5 | 88.7k | 5/16" |
| 17-1/2" | 6 | 104.0k | 5/16" |
| Length | Size of | End | Min angle |
| | Weld A | reaction | thickness |
| 5-1/2" | 3/16" | 37.1k | 5/16" |
| 8-1/2" | 3/16" | 55.3k | 5/16" |
| 11-1/2" | 3/16" | 72.7k | 5/16" |
| 14-1/2" | 3/16" | 88.7k | 5/16" |
| 17-1/2" | 3/16" | 104.0k | 5/16" |
| Length | Size of | End | Min angle |
| · · | Weld B | reaction | thickness |
| 5-1/2" | 1/4" | 14.6k | 5/16" |
| 8-1/2" | 1/4" | 32.2k | 5/16" |
| 11-1/2" | 1/4" | 53.4k | 5/16" |
| 14-1/2" | 1/4" | 76.6k | 5/16" |
| 17-1/2" | 1/4" | 101.0k | 5/16" |
| Depth | Min length | Depth | Min Length |
| of beam | of angle | of beam | of angle |
| W12 | 5-1/2" | W24 | 11-1/2" |
| W14 | 5-1/2" | W27 | 11-1/2" |
| W16 | 5-1/2" | W30 | 14-1/2" |
| W18 | 8-1/2" | W33 | 14-1/2" |
| W21 | 8-1/2" | W36 | 17-1/2" |



| Count | Type | Length | Keynote | Family and Type | Structural Material | Wt (lbs) |
|-------|------------------------------|-------------------|---|---|-------------------------|----------|
| ı | 11 5/8 x 18 1/2 Bond Beam | G B w to | 1 5/8" x 18 1/2" oncrete Bond eam // (2)#5 bars cont op & bott // #3 stirrups @ 2" o.c. | Concrete-Rectangular Beam: 11 5/8 x 18 1/2 Bond Beam | Concrete, Cast-in-Place | 34,410 |
| 3 | L3X3X1/4 | 140'-10" | | L Equal Angles: L3X3X1/4 | Steel ASTM A992 | 690 |
| | W8X24 | 6'-5" | | W Shapes: W8X24 | Steel ASTM A992 | 150 |
| | W10X19 | 6'-3" | | W Shapes: W10X19 | Steel ASTM A992 | 120 |
| | W10X26 | 10'-4" | | W Shapes: W10X26 | Steel ASTM A992 | 260 |
| j | W12X19 | 67'-2" | | W Shapes: W12X19 | Steel ASTM A992 | 1,270 |
| 6 | W12X26 | 154'-7" | | W Shapes: W12X26 | Steel ASTM A992 | 3,980 |
|) | W12X35 | 45'-7" | | W Shapes: W12X35 | Steel ASTM A992 | 1,590 |
|) | W14X22 | 40'-4" | | W Shapes: W14X22 | Steel ASTM A992 | 880 |
|) | W14X26 | 38'-8" | | W Shapes: W14X26 | Steel ASTM A992 | 1,000 |
| 1 | W14X34 | 303'-6" | | W Shapes: W14X34 | Steel ASTM A992 | 10,330 |
| 7 | W16X31 | 177'-0" | | W Shapes: W16X31 | Steel ASTM A992 | 5,460 |

| Level | Slab Type | Thickness | Area | Volume |
|--|---|-------------|----------|--------|
| 1st Floor FF EL | 4" concrete slab on grade w/ 6x6 W1.4xW1.4 wwf | 0' - 4" | 1311 SF | 16 CY |
| 1st Floor FF EL | 4" concrete slab on grade w/ 6x6 W1.4xW1.4 wwf | 0' - 4" | 11525 SF | 142 CY |
| 1st Floor FF EL 6" concrete slab on grade w/ 6x6 W2.9xW2.9 wwf | | 0' - 6" | 627 SF | 12 CY |
| 1st Floor FF EL | 4" concrete slab on grade w/ 6x6 W1.4xW1.4 wwf | 0' - 4" | 202 SF | 2 CY |
| 1st Floor FF EL | 3/4" T&G Plywood Decking | 0' - 0 3/4" | 284 SF | 1 CY |
| T.B. EL | 3" concrete slab on 1"x24ga galvanized metal deck w/ #4 @ 12" o.c. e.w. | 0' - 4" | 1450 SF | 18 CY |
| T.B. EL | 3" concrete slab on 1"x24ga galvanized metal deck w/ #4 @ 12" o.c. e.w. | 0' - 4" | 98 SF | 1 CY |
| T.B. EL | 3" concrete slab on 1"x24ga galvanized metal deck w/ #4 @ 12" o.c. e.w. | 0' - 4" | 703 SF | 9 CY |
| T.B. EL | 3/4" T&G Plywood Decking | 0' - 0 3/4" | 1428 SF | 3 CY |

| Column Location Mark | Length | Keynote |
|----------------------|--------|---|
| G-9 | 2'-1" | 24"x24" Concrete Pier w/ (6)#8 dowels w/ (5)#4 ties @ 3" o.c. |
| I-1 | 2'-1" | 24"x24" Concrete Pier w/ (6)#8 dowels w/ (5)#4 ties @ 3" o.c. |
| J-1 | 2'-1" | 24"x24" Concrete Pier w/ (6)#8 dowels w/ (5)#4 ties @ 3" o.c. |
| L-1 | 2'-1" | 24"x24" Concrete Pier w/ (6)#8 dowels w/ (5)#4 ties @ 3" o.c. |
| L-9 | 2'-1" | 24"x24" Concrete Pier w/ (6)#8 dowels w/ (5)#4 ties @ 3" o.c. |
| M-1 | 2'-1" | 24"x24" Concrete Pier w/ (6)#8 dowels w/ (5)#4 ties @ 3" o.c. |

| ESTIMATED STRUCTURAL WALL SCHEDULE | | | | | |
|---|--------------|-------------|-----------|--|--|
| Wall Type | Width | Length | Area | | |
| 8" CMU w/ #4 bars fully grouted @ 48" o.c. | 0' - 7 5/8" | 501' - 2" | 1,844 SF | | |
| 8" CMU w/ #5 bars fully grouted @ 24" o.c. | 0' - 7 5/8" | 159' - 6" | 1,855 SF | | |
| 12" CMU w/ #5 bars fully grouted @ 8" o.c. | 0' - 11 5/8" | 153' - 8" | 1,753 SF | | |
| 362S162-43 @ 16" o.c. | 0' - 3 5/8" | 55' - 5" | 665 SF | | |
| 600S162-43 @ 16" o.c. | 0' - 6" | 160' - 7" | 1,908 SF | | |
| 600S162-43 @ 16" o.c. | 0' - 6" | 312' - 6" | 3,192 SF | | |
| | • | 1342' - 10" | 11,217 SF | | |

| ESTIMATED COLUMN SCHEDULE | | | | | | | | |
|---------------------------|------------|-------|--------------|--------------------|---------|--|--|--|
| Column Location Mark | Type | Count | Length | Total Weight (lbs) | Keynote | | | |
| <varies></varies> | HSS5X5X3/8 | 12 | 169'-10" | 3,799 | | | | |
| <varies></varies> | HSS8X3X3/8 | 7 | 89'-1 1/2" | 2,222 | | | | |
| <varies></varies> | HSS8X8X3/8 | 2 | 20'-11" | 789 | | | | |
| | | , | 279'-10 1/2" | 6,810 | | | | |

| | | ESTIM | ATED STRIP FOOTING SCHEI | DULE | |
|--------|---------|-----------|---|--------------------|----------|
| Туре | Width | Thickness | Reinforcing | Estimate of Length | Volume |
| W24 | 2' - 0" | 1' - 0" | (3)#4 bars cont w/ #4 bars @ 24" o.c. Short | 660' | 1,249 CF |
| W48-24 | 4' - 0" | 2' - 0" | (6)#5 bars cont top & bott w/ #4 stirrups @ 12" o.c. | 156' | 1,215 CF |
| | | | | 816' | 2,464 CF |

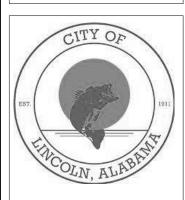
| ESTIMATED SPREAD FOOTING SCHEDULE | | | | | | | | |
|--|-----|---------|---------|---------|------------------|-------|--|--|
| Estimated Number Required Type Width Length Thickness Reinforcing Volume | | | | | | | | |
| 6 | F48 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #5 bars e.w. | 4 CY | | |
| 13 | F60 | 5' - 0" | 5' - 0" | 1' - 0" | (5) #5 bars e.w. | 12 CY | | |
| 2 | F96 | 8' - 0" | 8' - 0" | 1' - 7" | (6) #7 bars e.w. | 8 CY | | |
| | - 1 | 1 | | 1 | | 23 CY | | |

| ESTIMATED GRADE BEAM SCHEDULE | | | | | | |
|---|------|-------|--|--|--|--|
| Type Length Volume | | | | | | |
| 12"x24" Grade Beam w/ (2) #5 bars cont top & bott w/ #3 stirrups @ 12" o.c. | 169' | 16 CY | | | | |
| | | | | | | |

| CONCRETE SCHEDULE | | | | | | | |
|---------------------|-----------------|---------------|--------------|---------------------|---------|----------|--|
| Concrete Use | Design Strength | Max W/C Ratio | Slump Limits | Entrained Air Range | Weight | Notes | |
| Footings | 3000 psi | n/a | 3" to 5" | 3% to 5% | 150 pcf | - | |
| Piers | 4000 psi | n/a | 6" to 8" | 3% to 5% | 150 pcf | Use HRWR | |
| Slabs on Grade | 4000 psi | n/a | 6" to 8" | 3% to 5% | 150 pcf | Use HRWR | |
| Slabs on Metal Deck | 4000 psi | n/a | 6" to 8" | 3% to 5% | 150 pcf | Use HRWR | |



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Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER TTL 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal

MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

ISSUE: 05/13/24 FOR PERMIT

јов NO. **24001**

DESCRIPTION: Schedules





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OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
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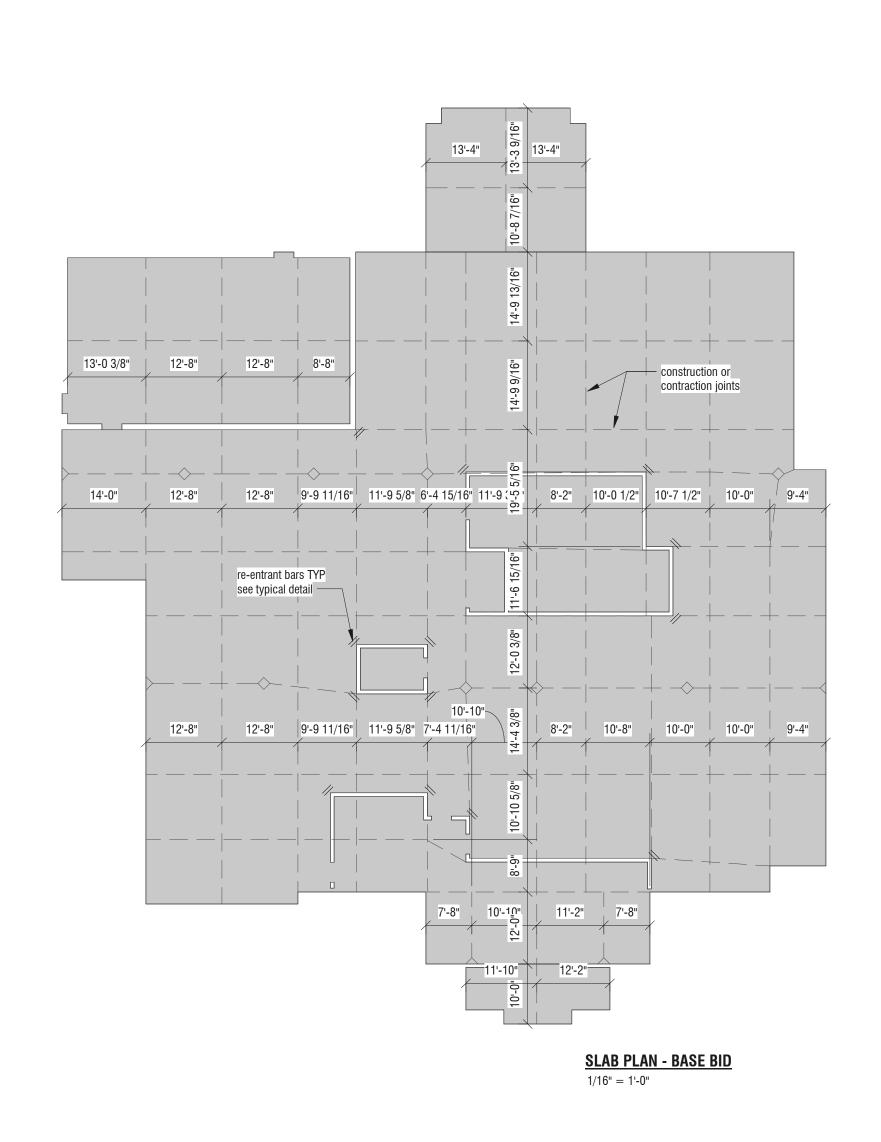
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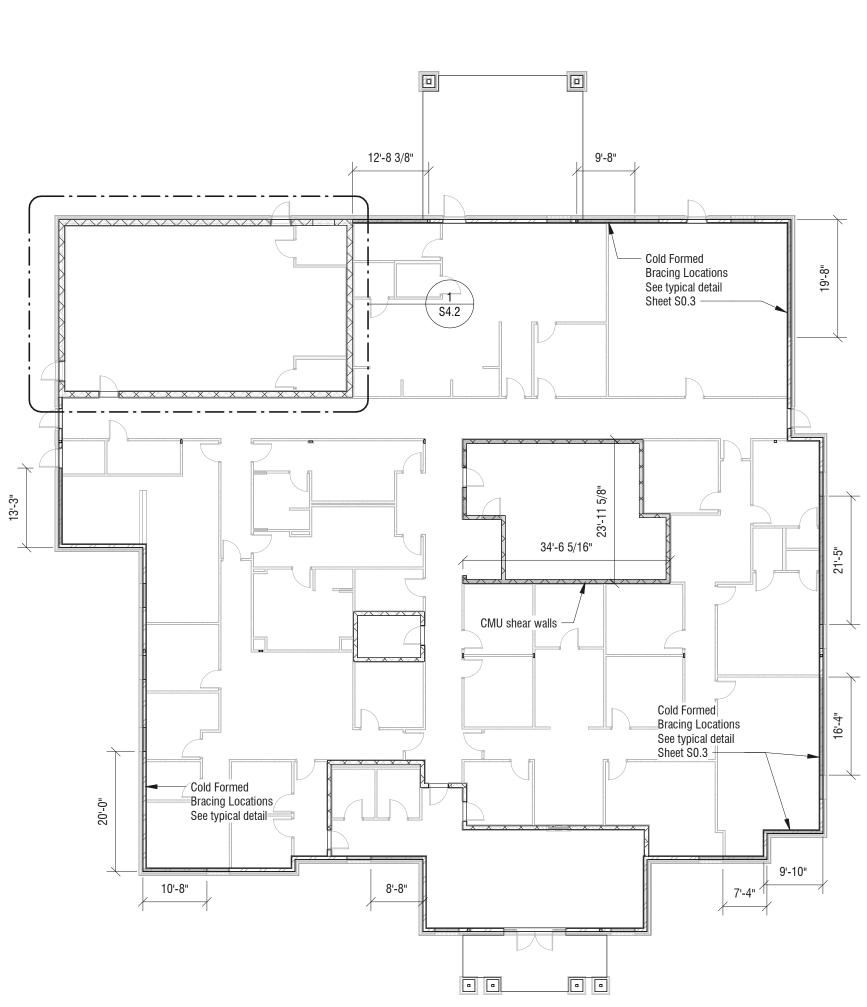
24001 DESCRIPTION:

Foundation Plan

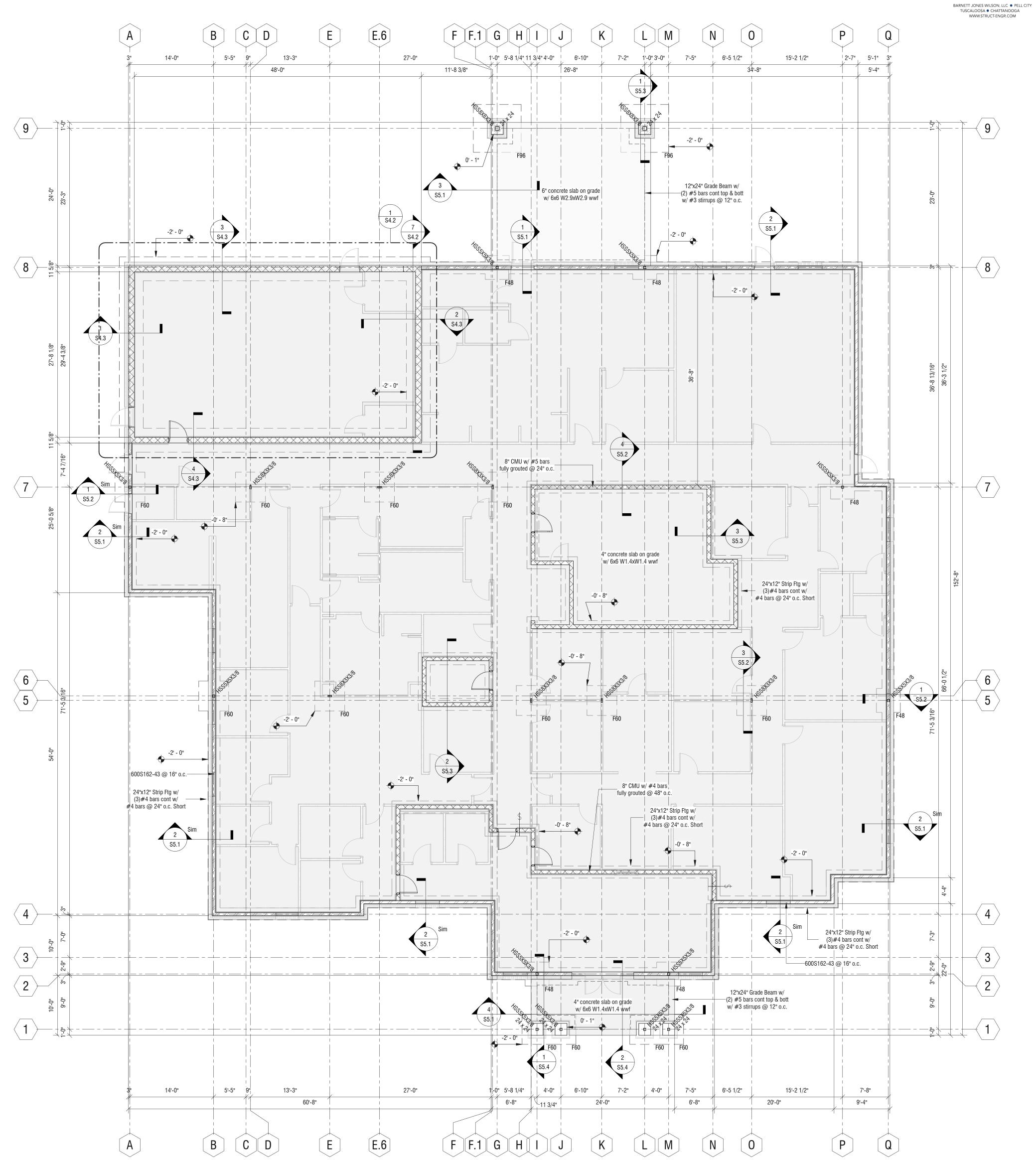
SHEET











1/8" = 1'-0"

Sheet Notes:

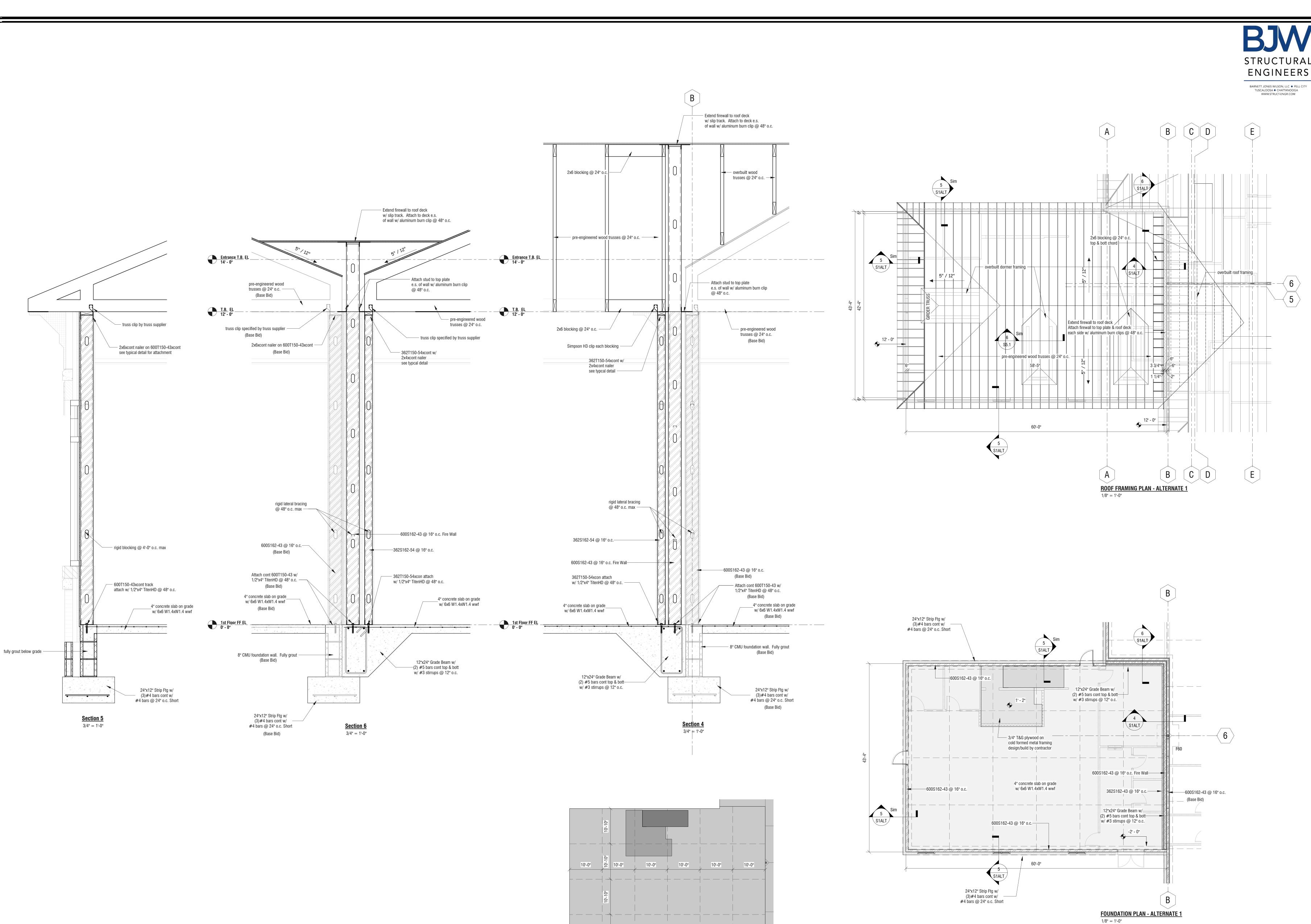
1. See SO Sheets for Typical Details & General Notes 2. Reference all elevations to FF EL (+)0'-0"

Exterior Top of Footing EL (-)2'-0" below FF Typ OR 1'-0" below adjacent grade, coord w/ Civil
 Interior Top of Footing EL (-)0'-8" below FF Typ

\$ indicates footing step locations.
 Provide (2)#4 x 4'-0" at all re-entrant corners, space 6" off each corner.

. Control Joint spacing 12'-0" max/ see typical detail, coord layout w/ arch/tenant 8. Coordinate drain and plumbing locations with MEP & arch. Step ftg as required to be min

1'-0" below pipes. Sleeve pipes w/ 1" larger dia pipe thru foundation walls 9. Cold formed framing design/build by contractor. Submit shop drawings for review.



<u>SLAB PLAN - ALTERNATE 1</u> 3/32" = 1'-0"



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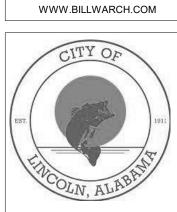
JOB NO. 24001 DESCRIPTION:

Alternate 1 Plans & Details





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NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA



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JOB NO. **24001**

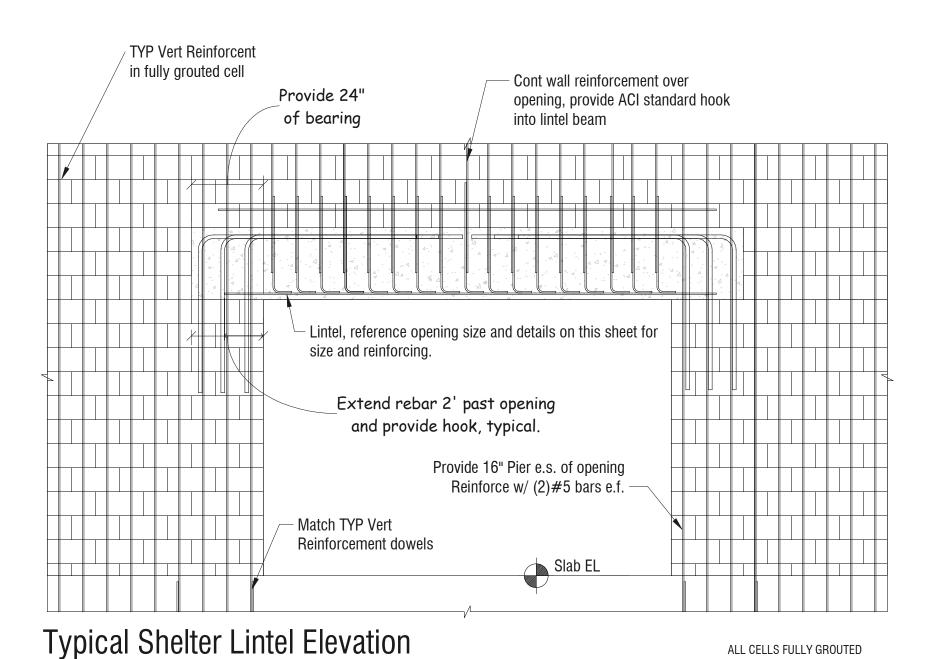
DESCRIPTION: Roof Framing Plan

SHEET

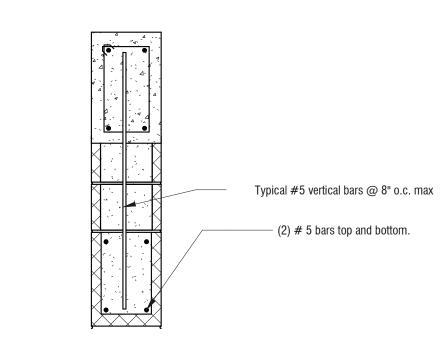


Typical Joint Reinforcing at Corner

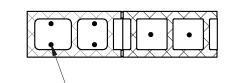




Note: Where 12" jambs are noted in plan, it is acceptable for the lintel above to have 12" of bearing and not extend past the jamb.



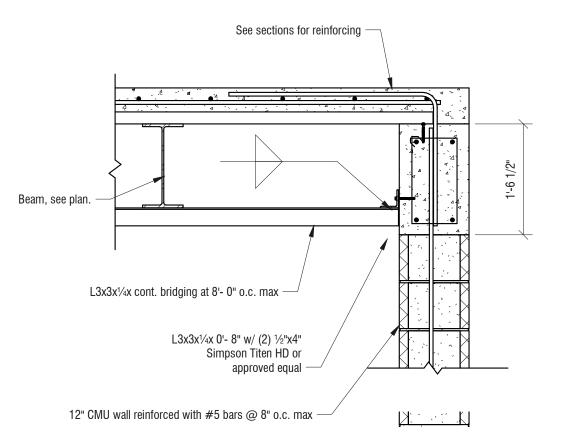
Shelter Lintel Section



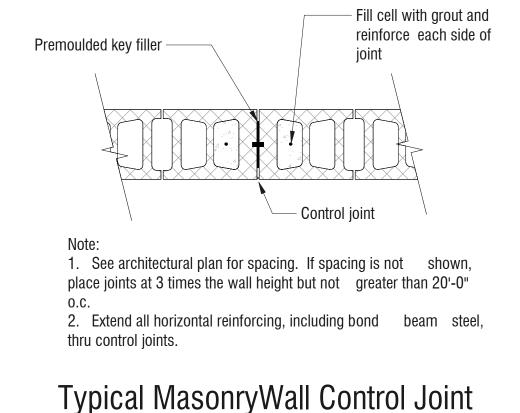
- At each window and door jamb provide r/m pier with (4) #5 bars vertical full height of wall. In storm-rated openings, lintels extend 8" past jamb.

Typical Masonry Jamb Detail

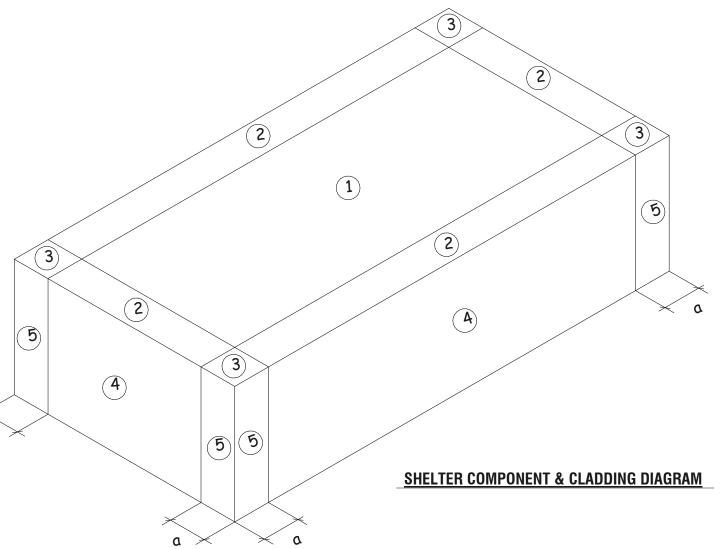
Note: Where 12" jambs are noted in plan, it is acceptable for the lintel above to have 12" of bearing and not extend past the jamb.

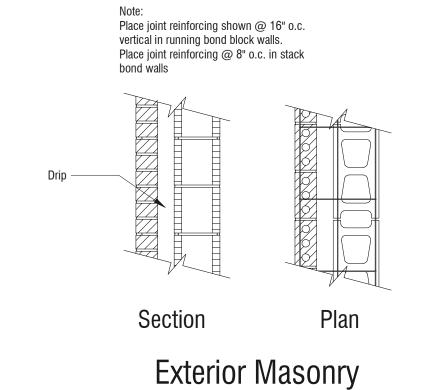


Uplift Bridging Termination Detail

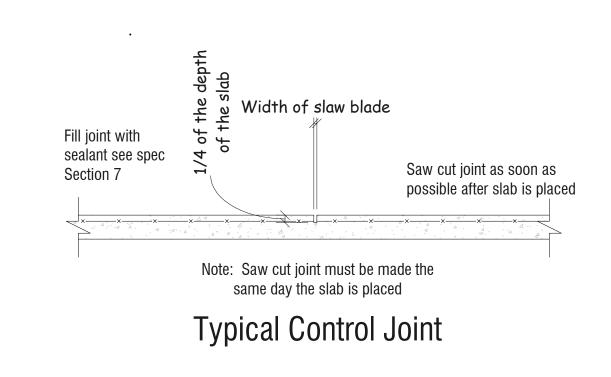


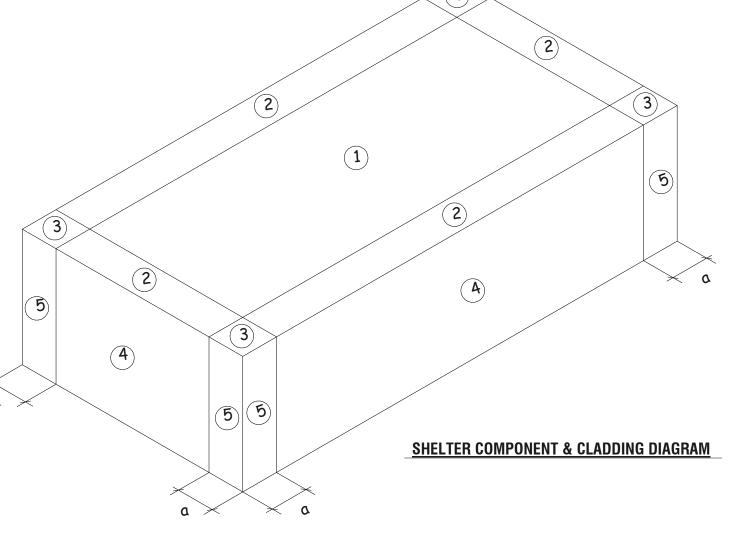
ALL CELLS FULLY GROUTED





Wall Details





| | SHELTER ROOF COMPONENT & CLADDING LOADS | | | | | | | | | |
|-----------------|---|------------------|--|--------|----------|----------------|------------|----------|-------------------|--|
| Span (| ft) | Zone 1,2,3 (+ | +psf) Zone 1 (-psf) Zone 2 (-psf) Zone 3 | | | | | (-psf) | | |
| 28 | | 102 | | -197 | -2 | 225 | -22 | 25 | | |
| 2. qh | | • | | | offe eti | ملئله اندر مدر | of ones /0 | | | |
| 2. qh | = 136 ective a | areas are calcul | | | | | | 3 | | |
| 2. qh 3. Eff | = 136 ective a | areas are calcul | COMF | PONENT | & CLAD | DING L | OADS | | | |
| 2. qh | = 136 ective a | areas are calcul | | PONENT | | DING L | | | 'one 5 (-) | |
| 2. qh 3. Eff | = 136 ective a | areas are calcul | COMF | PONENT | & CLAD | DING L | OADS | | one 5 (-) -215 | |

1. Effective areas are calculated based on minimum effective width of span/3

1. MAIN WIND-FORCE RESISTING SYSTEMS AND WIND-RESISTING COMPONENTS

Main Wind-Force Resisting Systems: CMU shear walls

Wind-Resisting Components: Concrete roof system is held down to the supporting steel beams with headed studs welded to the beams. <u>Concrete</u>

Concrete slab on metal deck on wide flange beams with 1/2"x4 1/2" headed studs. Beams are attached to 18 1/2" deep cast in place bond beams with shear plates.

18 1/2" deep bond beam Bond beam attached to wall by vertical reinforcing bars in each cell with ACI standard 180 deg hooks.

All 12" CMU walls are fully grouted, storm rated walls attached to footings with (1) #5 dowel at 8" o.c. centered in each cell. All load bearing CMU walls are storm rated with foundations designed to resist uplift forces. Walls are attached to footings with #5 bars @ 8" o.c.. Terminate bars on

Small Openings & Sleeves Core drilling in the shelter is to be avoided. General Contractor shall prepare and maintain a sleeve sign off card that is to be signed by all MEP subcontractors and also be coordinated with both the design team and concrete subcontractor, prior to pouring of any concrete.

<u>Large Openings & Lintels</u> General Contractor shall refer to the shelter lintel schedule and coordinate all opening sizes and locations with the design team, prior to construction.

2. SPECIAL INSPECTIONS AND TESTING REQUIRED IN ACCORDANCE WITH SECTION 106.2 See Specification Section 01410-Structural Tests and Special Inspections

3. TYPE AND FREQUENCY OF TESTING REQUIRED See Specification Section 014100-Structural Tests and Special Inspections, Part 4.2

4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS REQUIRED See Specification Section 014100-Structural Tests and Special Inspections, Part 4.2

5. <u>STRUCTURAL OBSERVATIONS TO BE PERFORMED IN ACCORDANCE WITH SECTION 106.4</u>

Prior to pouring foundations Prior to pouring roof slab

As needed to address questions that arise during construction 6. REQUIRED DISTRIBUTION, TYPE AND FREQUENCY OF REPORTS OF TESTS, INSPECTIONS AND STRUCTURAL OBSERVATIONS

Reports for tests, inspectors and observers shall be made after each test or site visit and sent to: City of Lincoln (Owner) Barnett Jones Wilson (Structural Engineer)

Refer to Section 1.6 in Specification Section 014100 for submittal requirements.

Bill Whittiaker (Project Architect)

Each contractor responsible for the construction of a main wind-force resisting system element or any component listed in the quality assurance plan shall submit a written statement of

esponsibility to the authority having jurisdiction, the responsible design professional, and the owner prior to commencement of work on the system or component. The contractor's statement of responsibility shall contain: A. Acknowledgement of awareness of the special requirements contained in the quality assurance plan.

B. Acknowledgement that control will be exercised to obtain compliance with the construction documents. C. Procedures for exercising control within the contractor's organization, the method and frequency of reporting, and the distribution of reports.

D. Identification and qualifications of the person(s) exercising control and their position(s) in the organization.

exception: prefabricated or panelized tornado shelter components which have been inspected and labeled by an approved agency meeting the requirements of the applicable building code.

8. <u>NOTES ON PENETRATIONS THROUGH SHELTER PERIMETER WALLS AND ROOF:</u> 1. All holes or openings through the shelter perimeter walls or roof greater than 3.5 square inches or 2"ø must be protected per icc 500-2020. Holes through walls that occur at least 1'-0" below adjacent grade do not require protection.

2. See architectural, mechanical, plumbing, and electrical drawings for locations of all shelter penetrations.

3. See plumbing drawings for protection devices required for pipe penetrations exceeding 2"ø.

4. See mechanical drawings for protection devices required for wall and roof openings. GC coordinate with opening device supplier for required steel and anchorage. 5. All holes through shelter perimeter walls or roofs for pipes or conduit to be sleeved. Any holes that must be core drilled shall be done without cutting through reinforcing bars. Provide 8"

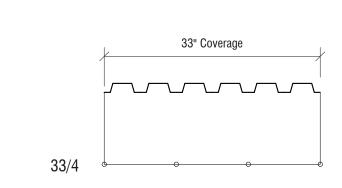
minimum clear spacing between holes 6. Rated opening protection assemblies, such as doors and louvers, must be installed as specified by the assembly supplier. General contractor to coordinate with assembly supplier for any additional steel or anchors that must be provided for the specified attachments.

| Reinforcing Steel Lap Splice Lengths | | | | | | | |
|--------------------------------------|---------|-----------|------------|---------|--|--|--|
| | Column | Bm, Ftg 8 | CMU Wall | | | | |
| Bar Size | Splices | Top Bars | Other Bars | Splices | | | |
| # 3 | 12" | 19" | 15" | 18" | | | |
| # 4 | 15" | 25" | 19" | 24" | | | |
| # 5 | 19" | 31" | 24" | 30" | | | |
| # 6 | 23" | 37" | 29" | 36" | | | |
| #7 | 26" | 54" | 42" | 42" | | | |
| # 8 | 30" | 62" | 48" | 48" | | | |
| # 9 | 34" | 70" | 54" | 54" | | | |
| # 10 | 38" | 79" | 61" | 60" | | | |
| # 11 | 42" | 87" | 67" | 66" | | | |

1. Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars. . All horizontal reinforcing bars in walls may be detailed as "Other Bars". 3. All corner bars may be detailed as "Other Bars".

| Brick Lintel Schedule | | | | | | | |
|---|---|------------------------------------|--|--|--|--|--|
| Span | Lintel Size | Bearing Each End | | | | | |
| <= 4'-0" <= 6'-0" <= 8'-0" <= 10'-0" <= 12'-0" <= 14'-0" | L 3 1/2"x 3 1/2"x 5/16" L 4"x3 1/2"x5/16" L 5"x3 1/2"x5/16" L 6"x3 1/2"x5/16" L 7"x4"x3/8" L 8"x4"x7/16" | 8" 8" 8" 8" 16" 16" | | | | | |

| Metal Deck Attachment Schedule | | | | | | | | |
|--------------------------------|-------------|--------------------------|--------------------------|--|--|--|--|--|
| Area | Deck | Support Fastener/Pattern | Sidelap Fastener/Pattern | | | | | |
| Shelter Roof | 1.0C x 24ga | ¾" puddle welds | (3)#10 screws | | | | | |



1.0C Form Deck

| CONCRETE SCHEDULE | | | | | | | |
|---------------------|-----------------|---------------|--------------|---------------------|---------|--------|--|
| Concrete Use | Design Strength | Max W/C Ratio | Slump Limits | Entrained Air Range | Weight | Note | |
| Footings | 3000 psi | n/a | 3" to 5" | 3% to 5% | 150 pcf | - | |
| Piers | 4000 psi | n/a | 6" to 8" | 3% to 5% | 150 pcf | Use HF | |
| Slabs on Grade | 4000 psi | n/a | 6" to 8" | 3% to 5% | 150 pcf | Use HF | |
| Slabs on Metal Deck | 4000 psi | n/a | 6" to 8" | 3% to 5% | 150 pcf | Use HF | |



Reference codes for loading

. Building Classification

1) Basic Wind Speed

Wind Exposure

Importance Factor

4) Internal Pressure Coefficient Velocity Pressure (qz)

Flat Roof Snow Load (Pf)

2) Mapped Spectral Response Accelerations

4) Spectral Response Coefficients

2) Missile Impact of 15lb Sawn 2X4

concrete slab w/ #4 bars @ 12" o.c. on 9/16"x26ga steel deck.

a) Vertical Surfaces

b) Horizontal Surfaces

Seismic Design Category

Snow Exposure (Ce)

Importance Factor

Thermal Factor (Ct)

Importance Factor

Type of Shleter

b. Wind Load

c. Roof Snow Load

d. Seismic Load

e. Live Load

3) Site Class

Roof Load

ICC 500-2020

FEMA 361 ASCE 7-16

IBC 2021

Tornado

250 mph

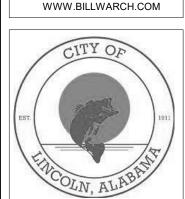
+/-0.55

136 psf

ENGINEERS

TUSCALOOSA ● CHATTANOOGA WWW.STRUCT-ENGR.COM

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Minimum System and System Used: Debris Impact Testing at Texas Tech University - 2003 report. The report summarizes the following test results: 4" horizontal slab w/ #4 bars @ 12" o.c. withstood (5) shots of 15lb 2x4's at 104-162mph. (S&C 2001 P.T.) --- Shelter roof is 5"

67 mph

8" vertical CMU wall with concrete & #4 rebar in every cell withstood (35+) shots of 15lb 2x4's at greater than 100mph. (Carter

1998) --- Shelter wall is 12" CMU with #5 bars and grout in every cell.

. Foundation design for this project was based on soils information provided by Terracon, Inc Project No. E1245042 Bearing value of soil: 2500 psf 3. All footings are to bear on engineered fill, see Geotech report for requirements. 4. Provide 8'-0" long top steel reinforcing, same size as bottom steel, at transitions between engineered fill and

6) Base Seismic-Force-Resisting System(s) and Response Modification Factor

a) Ordinary Reinforced Masonry Shear Walls

7) Analysis Procedure = Equivalent Lateral Force

undisturbed soil locations. 5. Install corner bars at all footing intersections and corners (Provide lap length e.w.) 6. Step all footings where necessary to provide a minimum of 1'-0" below the finish grade or 0'-8" below finish floor. 7. All footing elevations are given to the top of the footings.

8. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed. 9. Coordinate foundation elevations with plumbing requirements. Step footings as required to clear plumbing lines. 10. Provide drainage for all retaining walls, see architectural for notes and details. CONCRETE MASONRY UNITS (CMU)

1. All masonry work to be in accordance with "Building Code Requirements for Concrete Masonry Structures" TMS 402-2016 and "Specifications for Masonry Structures" TMS 602-2016 2. Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade whichever is higher.

3. Use ladder type joint reinforcement (Dur-O-Wall SW DA3100 or better) at 16" on center in all cavity walls where brick is used for one or more of the wythes. 4. Use truss type joint reinforcement (Dur-0-Wall SW DA3100 or better) at 16" o/c. in all other masonry walls. 5. Provide joint reinforcement at 8" o/c. for all walls constructed with stack bond. 6. Use Type "M" or Type "S" mortar in accordance with IBC Table 2103.7(1).

units before starting any masonry work. 8. Minimum compressive strength of grout f'm = 2000 psi. Use 3/8" max size aggregate. See Special Inspection

Schedule for any testing requirements. Grout slump shall be 8" to 11". 9. Use "Fine" grout for all reinforced piers and reinforced wall in accordance with ASTM C 476. 10. Each grout lift shall not exceed 5'-0" unless cleanouts are provided in the bottom course.

11. Fill cells under all lintels with grout. 12. Provide lintels over all openings through wall. See lintel details for reinforcement.

13. Unless otherwise noted provide control joints in all walls 4'-0" from wall intersections or corners and at 20'-0" o.c. 14. Extend all horizontal steel and bond beams thru control joints. 15. Unless noted, all bars are to be located at the center of cell. Where bars are specified at each face, provide minimum 3/4" clear space between reinforcement and CMU face shell. 16. Anchor bolts into grouted cell locations only, unless noted otherwise.

17. Non Load Bearing Interior CMU walls shall be reinfored with minimum #4 bars in fully grouted cells @ 4'-0" o.c. Provide Bond Beam at top of wall. Brace top of wall to roof structure with rigid bracing @ 8-0" o.c.. Alternate each 18. Anchor all steel columns to CMU walls @ 24" o.c. vertically into reinforced cell. See typical detail.

REINFORCING STEEL AND CONCRETE All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI

2. All detailing is to be in accordance with "ACI Detailing Manual" SP-66 3. Use of Calcium Chloride, Chloride lons, or other salts in concrete are prohibited. 4. Concrete Properties: See Schedule

a. All concrete must obtain 7 day strength of 70% of design strength. b. Concrete mixes may replace cement with other cementitious materials, submit for approval. c. Combined weight of all replacement cementitious materials may not exceed 25% of the total cementitious

d. Concrete mixes may use water reducers, accelerators or retarders with prior approval. e. Do not provide air entrainment in concrete mixes for interior slabs. 5. All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete. 6. Welded wire fabric shall be ASTM 185 and shall lap 2 cross wires or 6" whichever is greater on all sides. All laps shall be wired together.

7. Provide (2) #4 bars x 4'-0" at re-entrant corner locations Typical. Locate 3" away from corner and space 1'-0"

8. All slabs on grade are 4", unless noted. Slabs are to be placed on 10 Mil, PVC vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4 x W1.4 WWF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed at a maximum of 12'-0" on center. The aspect ratio of the joint layout should not exceed 1.5. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile. 9. All slabs on grade are 4", unless noted. Slabs are to be placed on Stega 15 mil vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4 x W1.4 WWF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed at a maximum of 12'-0" on center. The aspect ratio of the joint layout should not exceed 1.5. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile.

10. Minimum concrete cover for reinforcement: a) Footings 3" bottom & sides, 2" top b) Slabs on Grade 3/4" top, 3" bottom c) Slabs on Deck 3/4"

5. All structural steel Pipe sections shall be ASTM A501.

d) Cast-In-Place Walls Surfaces exposed to weather or soil 2" - #6 and greater, 1-1/2" - #5 and smaller Other surfaces 3/4" 11. Provide corner bars at all wall and footing intersections

12. Do not run conduit or pipe in slabs or beams unless noted on the plans or specific prior approval from the engineer. 13. Use 3/4" chamfer for all exposed corners unless noted **EPOXY AND MECHANICAL ANCHORS** All anchors shall be installed per Manufacturer's Printed Installation Instructions (MPII).

2. Contractor must get pre-approval from engineer-of-record before using post-installed adhesive or mechanical anchors not detailed or specified in these drawings. All post-installed anchors must have an evaluation report showing code compliance with the intended application. 3. Adhesive anchors into concrete to be Simpson SET-3G or approved equal. Adhesive anchors into masonry to be Simpson SET-XP. Typical Embedment shall be 12 x Dia. Design bond strength has been based on cracked concrete, ACI

355.4 Temperature Category B and installations into dry holes drilled into concrete that has cured for at least 21 days using a drill bit and technique that is qualified by the manufacturer. 4. All mechanical anchors to be Simpson TITEN HD Screw Anchors or approved equal. Typical Embedment shall be 8 x 5. All Powder Actuated Fasteners (PAF) to be 0.157 Simpson PDPA pins with 1 ¼" minimum embedment into concrete or masonry. For installations into steel, PAF shall completely penetrate steel thickness.

STRUCTURAL STEEL All detailing, fabricating, and erection of structural steel shall be in accordance with the AISC 360-16 "Specifications for Structural Steel Buildings". All reactions shown are ASD loads. All connections are to be detailed as Type 2 "simple frame connections".

3. All structural steel W shapes shall be ASTM A992. 4. All structural steel Tube sections shall be ASTM A500 Grade C.

Headed Studs shall be Type B Shear Connectors. 8. Shop and field connections shall be welded with E-70XX electrodes or bolted with 3/4" dia. A-325N or A-325F bolts, 9. Use 3/4" cap and bearing plates, unless noted.

6. All structural steel channels, angles and other sections shall be ASTM A36, unless noted.

10. Use 3/4" dia x 1'-0" long ASTM 1554 Grade 36 anchor bolts, unless noted. In lieu of cast bolts, 3/4"x1'-0" long HAS rods epoxied with Hilti HVA epoxy, or equal, may be used with prior approval. 11. Grout under baseplates with ASTM C 1107 cementitious 6000 psi Non-Shrink Grout.

12. All steel exposed to weather shall be hot dipped galvanized per ASTM A123. 13. All steel exposed to earth shall receive bitumen coating. 14. Structural steel shall be shop primed per SSPC paint system No. 7. Primer shall be SSPC paint with a minimum thickness of 2.0 MILS. Omit Paint at surfaces to be fireproofed.

CONSTRUCTION MATERIALS TESTING & SPECIAL INSPECTIONS The owner will provide testing and special inspection under a separate contract. See this sheet or project specifications for schedule of special inspections.

NOTE: SHELTER CONSTRUCTION MUST CONFORM TO REQUIREMENTS OF SHEETS S4.1, S4.2, & S4.3

THESE REQUIREMENTS GOVERN OVER REQUIREMENTS OF OVERALL BUILDING

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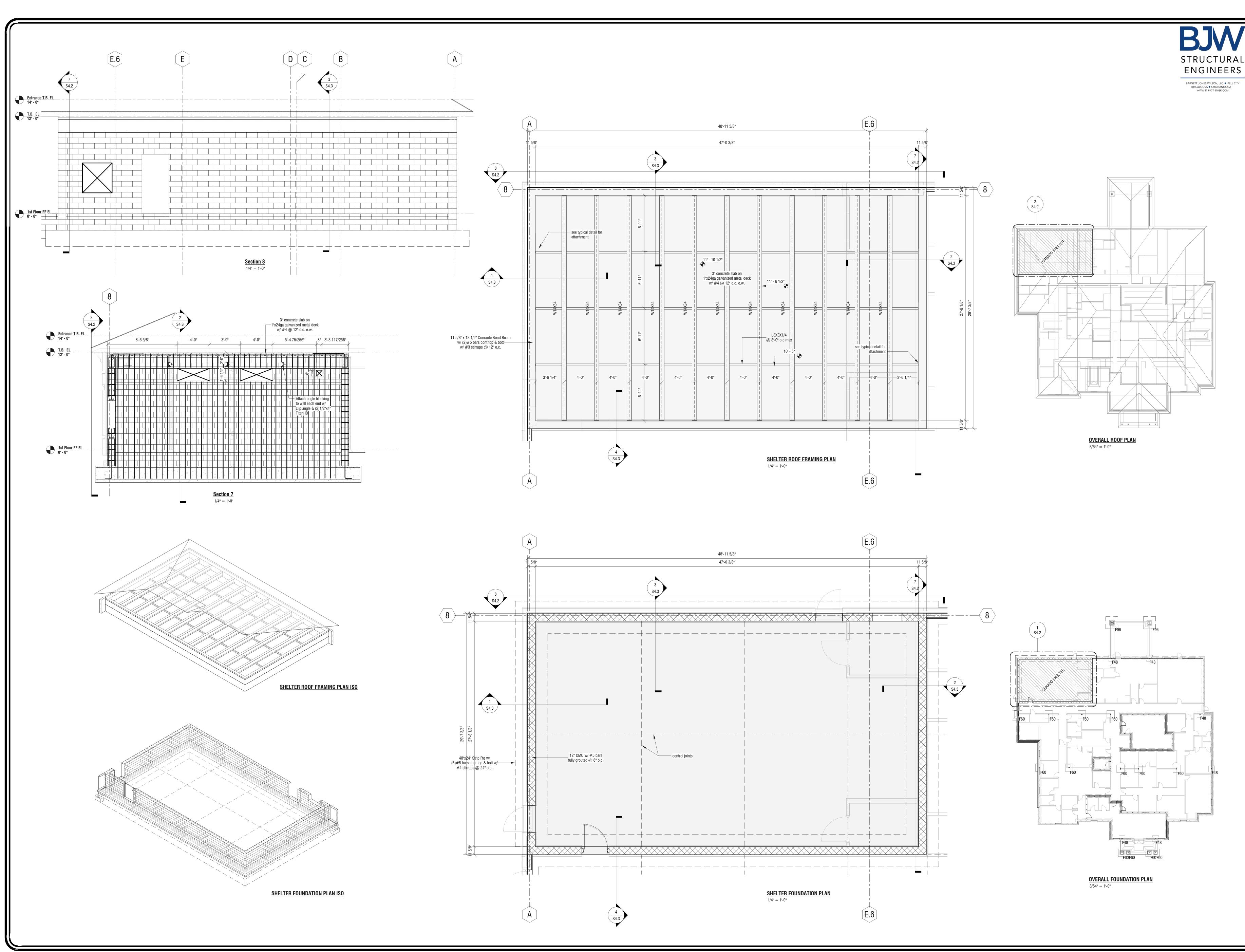
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Attn: Tony Dodd

JOB NO. 24001

DESCRIPTION: Shelter Notes & Typical Details



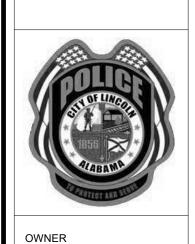




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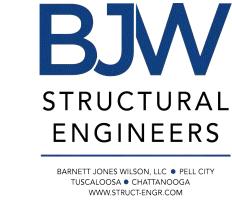
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Attn: Tony Dodd ISSUE: 05/13/24 FOR PERMIT

24001

DESCRIPTION: Shelter Plans



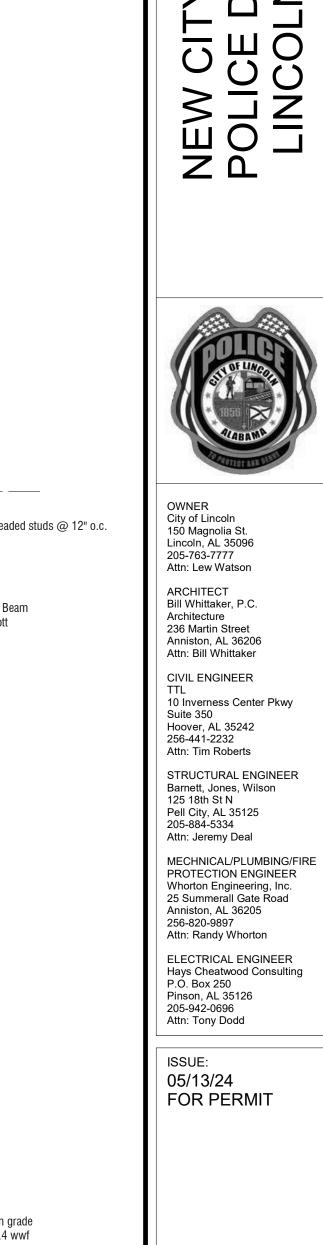




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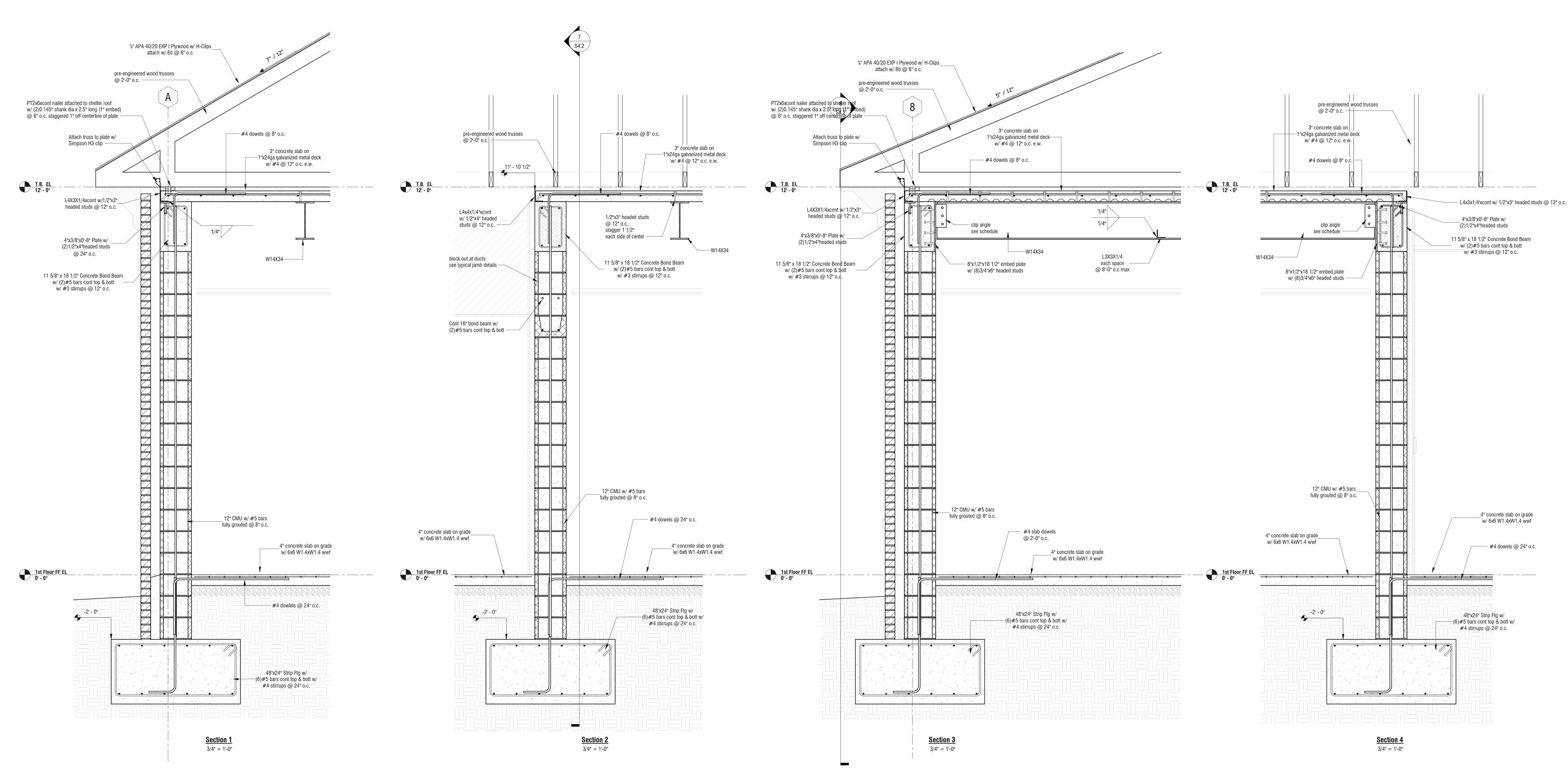


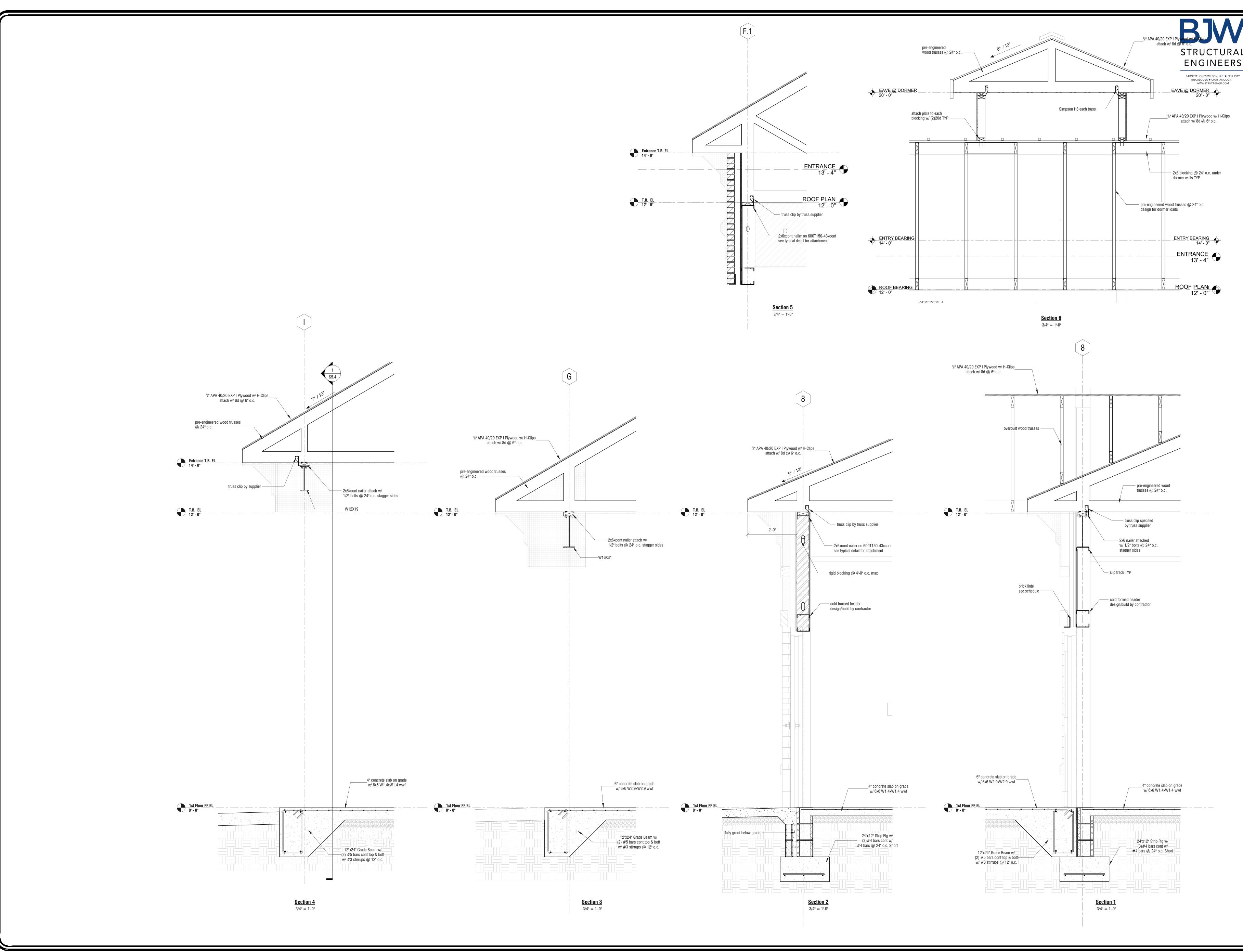


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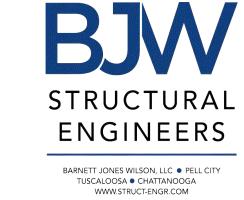
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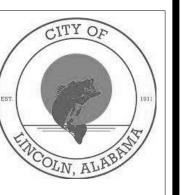






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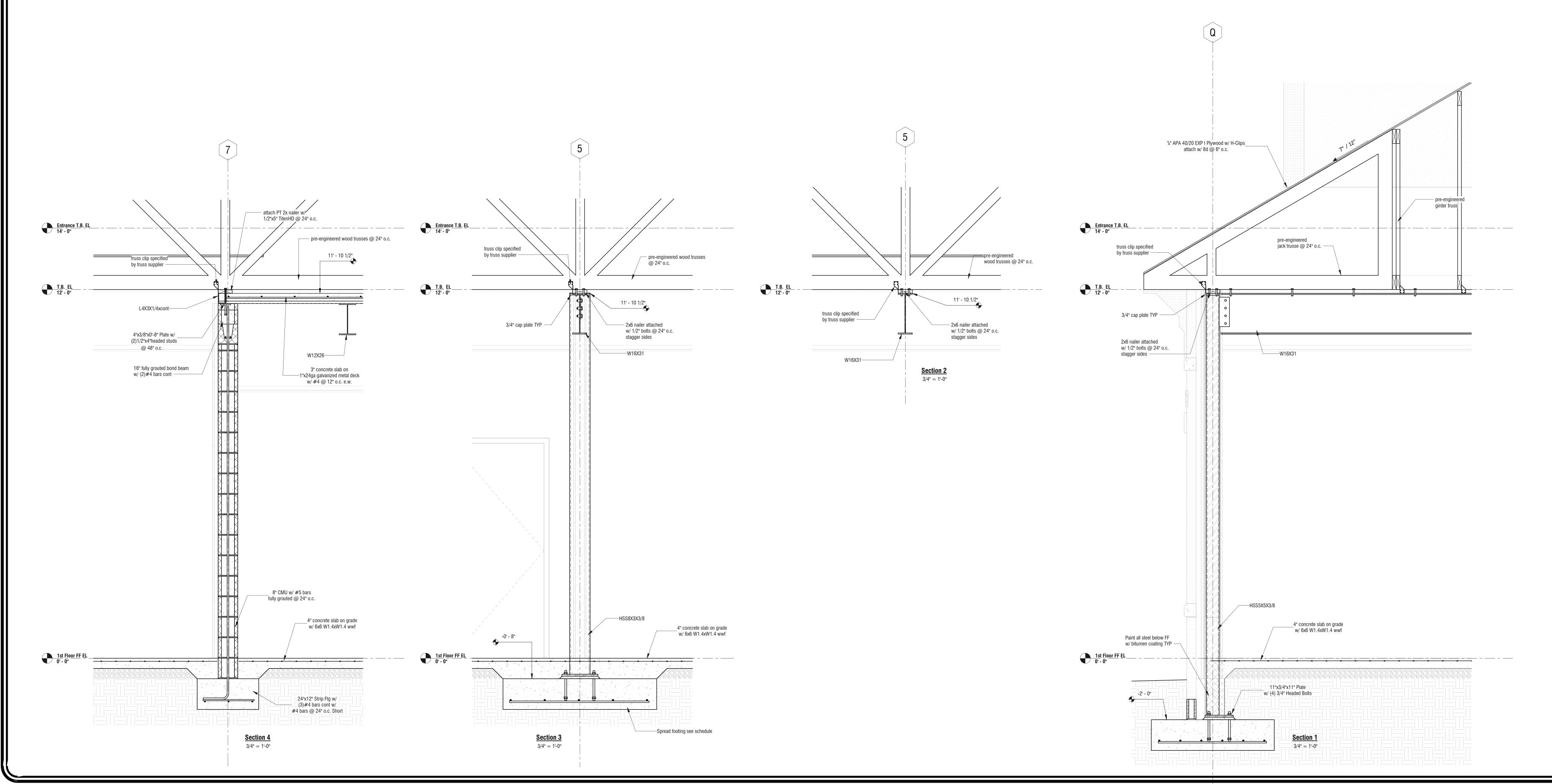
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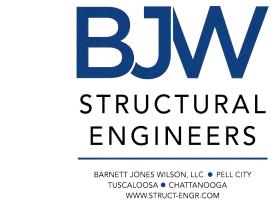
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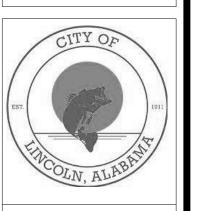












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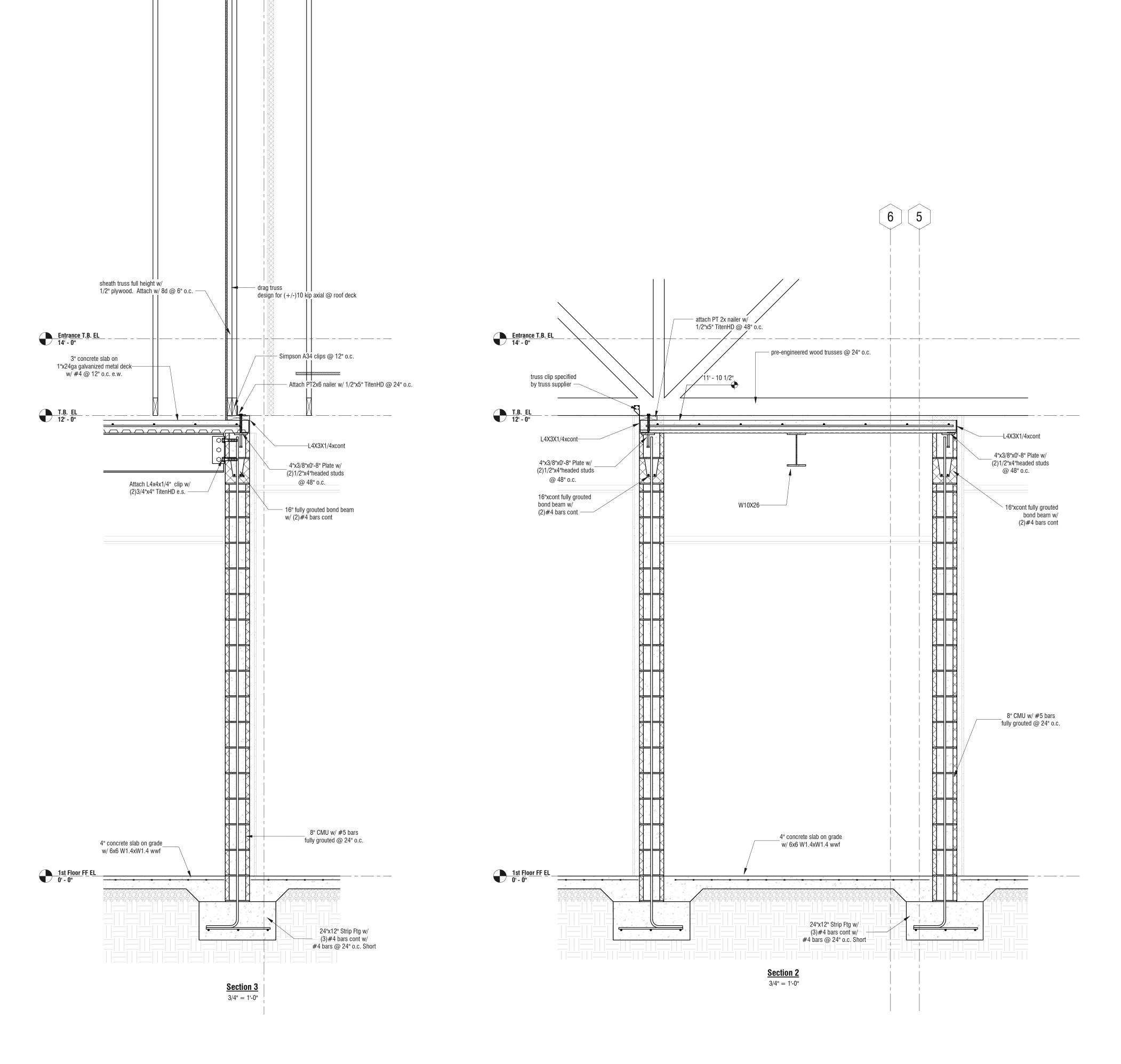
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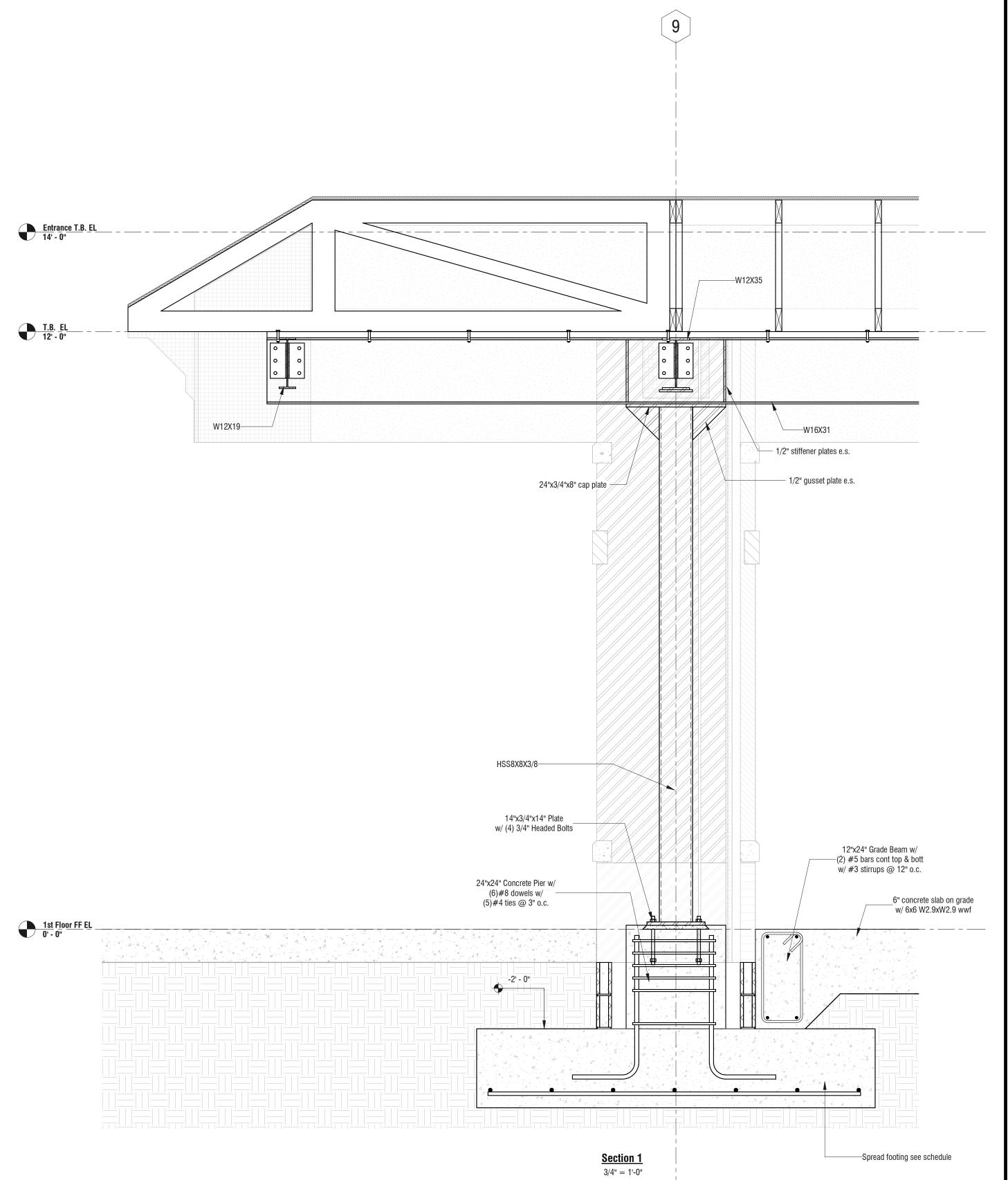
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PROFESSIONAL
04/04/2025

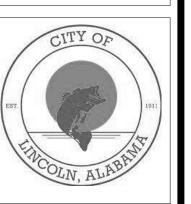


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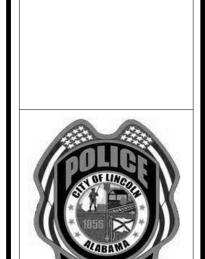
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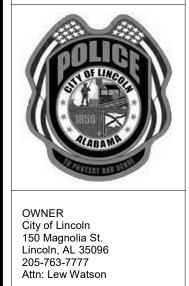








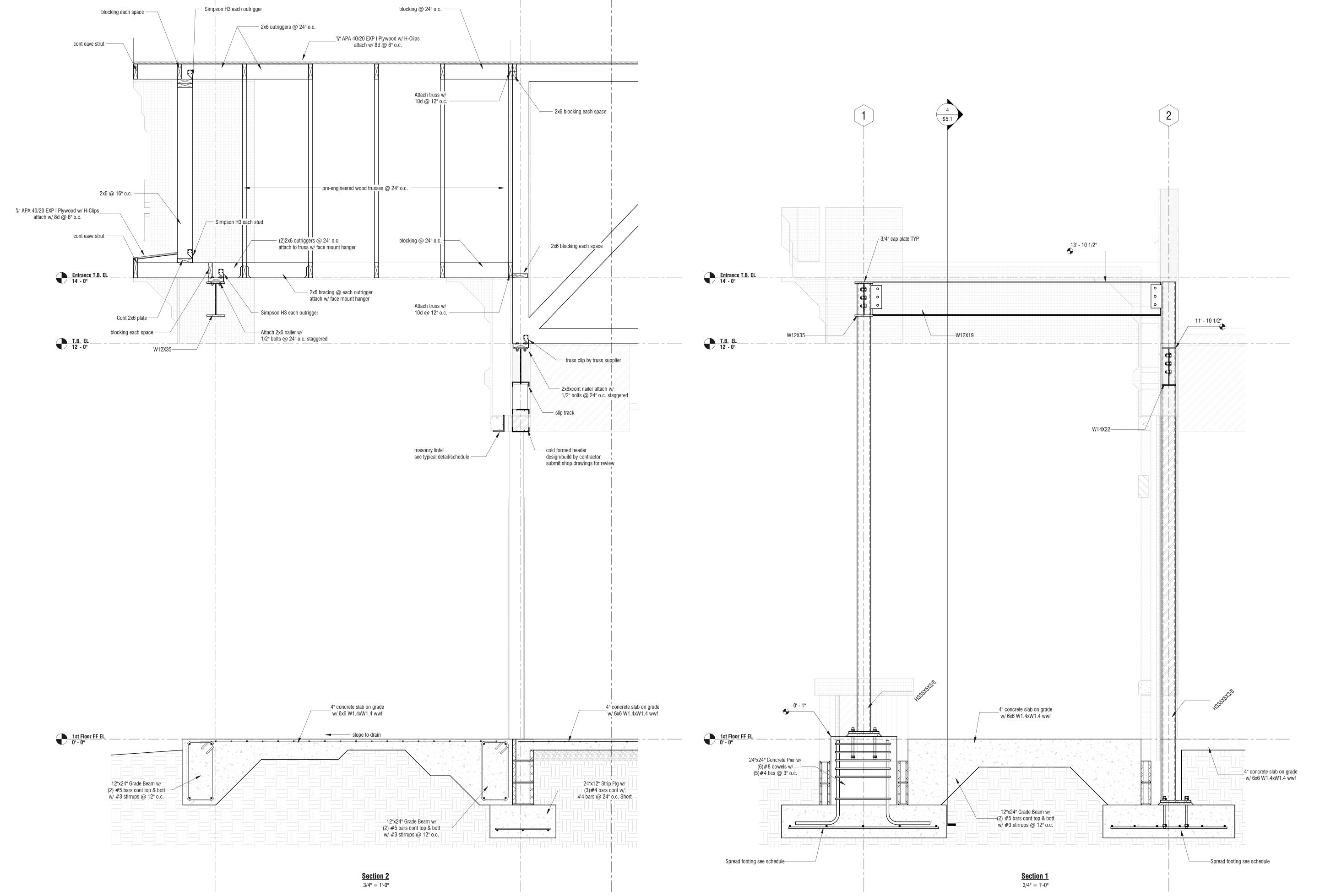




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JOB NO. 24001 DESCRIPTION: Sections and Details



GENERAL PLUMBING NOTES

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
- 3. FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
- 4. VERIFY LOCATION OF ALL FIXTURES WITH ARCHITECTURAL PLANS.
- 5. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ENGINEER AND ARCHITECT.
- . COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS
- PROVIDE 12"X12" ACCESS PANEL FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL AND
- APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

3. ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE

- 9. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, AND OTHER STRUCTURAL CONDITIONS. 10. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS, ETC.
- 11. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED. 12. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL DOMESTIC WATER AND SANITARY SEWERS, UNLESS OTHERWISE
- 13. ALL PLUMBING COMPONENTS TO BE LEAD-FREE.

TIGHT TO COLUMNS OR WALLS AS POSSIBLE.

CEILING AS HIGH AS POSSIBLE.

- 14. ENCASE ALL WASTE/WATER PIPING, VALVES, WATER HEATER, OR ANY OTHER ASSOCIATED PLUMBING EQUIPMENT BELOW WALL HUNG LAVATORY, WITH TRUEBRO LAV-SHIELD (OR APPROVED EQUAL). THIS APPLIES TO ALL ADA LAVS, LAVS WITH MIXING VALVES MOUNTED BELOW LAV, AND ALL LAVS THAT INCLUDE INSTANTANEOUS ELECTRIC WATER HEATERS MOUNTED BELOW LAVS. LAV GUARD SHALL INCLUDE STAINLESS STEEL TAMPER RESISTANT SCREWS. LAV-SHIELD SHALL BE ORDERED TO MATCH SPECIFIED/APPROVED LAVATORY.
- 15. HORIZONTAL DRAINAGE PIPING OF 2-1/2" DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" PER FOOT. 16. SET FLOOR DRAIN ELEVATION DEPRESSED BELOW FINISHED SLAB ELEVATION AS LISTED BELOW TO PROVIDE PROPER FLOOR SLOPE TO DRAIN:
- 5 FOOT DRAIN RADIUS : 1/2" DEPRESSION 10 FOOT DRAIN RADIUS: 3/4" DEPRESSION 15 FOOT DRAIN RADIUS : 1" DEPRESSION
- 20 FOOT DRAIN RADIUS: 1-1/4" DEPRESSION 25 FOOT DRAIN RADIUS; 1-1/2" DEPRESSION
- 17. ALL TRAP ARMS, P—TRAPS, ETC. EXPOSED UNDER LAVATORIES SHALL BE 18. GA. CHROME PLATED.
- 18. ABOVE GROUND DRAINAGE AND VENT PIPING LOCATED WITHIN FIRE RATED WALLS SHALL BE COPPER PIPE IN ACCORDANCE WITH STANDARDS ASTM B42 AND B302 OR CAST IRON PIPE IN ACCORDANCE WITH STANDARDS ASTM A 74; ASTM A 888; CISPI 301. COORDINATE WITH ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATION OF ALL FIRE
- 19. ALL SANITARY SEWER PIPING ROUTED BELOW BUILDING AND 10' BEYOND BUILDING FOOTINGS, SHALL BE CAST IRON. 20. INSTALL ANGLE COVER OVER CONDENSATE LINES, SPRINKLER LINES, ETC. THAT CROSS MEZZANINE/MECH ROOM FLOOR WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ANGLE COVER SAFETY YELLOW COLOR.
- 21. VERIFY ORIENTATION OF FLUSHING MECHANISM ON TOILET/URINAL WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN. 22. PROVIDE WATER PRESSURE REDUCING/REGULATING VALVE ON MAIN SERVICE WHEN MAIN PRESSURE EXCEEDS 75 PSI
- AT ANY TIME OF DAY. COORDINATE WITH LOCAL UTILITY. 23. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. KITCHEN AND LAUNDRY EQUIPMENT, ETC., AS REQUIRED BY CODE AND BY LOCAL AUTHORITY. CONTRACTOR IS TO VERIFY WITH THE LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO
- 24. ALL OVERHEAD WATER PIPING SHALL BE INSTALLED BELOW CEILING INSULATION.
- 25. INSTALL BACKFLOW PREVENTION IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS. INSTALL ON MAIN DOMESTIC
- 26. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTER EQUAL TO ZURN SERIES 1700 AT EACH PLUMBING GROUP. 27. CONTRACTOR TO FURNISH AND INSTALL ANTI-SIPHON VALVE ON EACH WATER HEATER.
- 28. CONTRACTOR SHALL FURNISH AND INSTALL BALL VALVES FOR WATER SHUT-OFF AT FIXTURE GROUPINGS.
- 29. ALL STOPS/SUPPLIES SHALL BE CHROME PLATED BRASS.

GAS PLUMBING NOTES

- ALL GAS PIPING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NFPA 54, INTERNATIONAL FUEL GAS
- ALL EXPOSED INTERIOR OR EXTERIOR GAS LINES ARE TO BE PAINTED BY THE PLUMBING CONTRACTOR WITH ONE COAT OF LATEX PAINT. INTERIOR COLOR TO MATCH WALL. EXTERIOR COLOR TO BE SELECTED BY ARCHITECT. PROVIDE INSULATING UNION BETWEEN ABOVE AND BELOW GROUND GAS PIPING.
- UNDERGROUND GAS PIPING TO BE ASTM D 2513, POLYETHYLENE, DR 11 OR DR 11.5. REFERENCE GAS PLUMBING PLAN FOR PRESSURE OF UNDERGROUND GAS PIPING.
- 5. FURNISH AND INSTALL STEEL RISER TO A MINIMUM DEPTH OF 36" BELOW GRADE AT ALL LOCATIONS WHERE PE GAS PIPING RISES ABOVE GRADE.

CONDENSATE PLUMBING NOTES

- CONDENSATE PIPING, FITTINGS, & ACCESSORIES SHALL BE PROVIDED & INSTALLED IN ACCORDANCE WITH 2024 IMC
- 2. SLOPE ALL CONDENSATE 1/8 INCH/FT (1% SLOPE)
- . CONDENSATE TO ALL UNITS SHALL BE IN ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS AND THE INTERNATIONAL MECHANICAL CODE, SECTION 307 (2024 IMC)
- 4. ALL CONDENSATE FITTING SHALL BE SANITARY TYPE FITTINGS.
- ALL CONDENSATE PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL). INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- 5. ALL CONDENSATE DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUM, SHALL BE TYPE "L" COPPER. ALL COPPER PIPING MUST BE INSULATED WITH 1/2" ARMAFLEX OR APPROVED EQUAL. PIPING CAN ALSO BE SCHEDULE 40 CPVC WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR APPROVED EQUAL. COORDINATE WITH HVAC PLAN FOR REQUIREMENT AND LOCATION OF AIR PLENUM(S).
- INSTALL ANGLE COVER OVER CONDENSATE LINES THAT CROSS MEZZANINE/MECHANICAL ROOM FLOOR WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ANGLE COVER SAFETY YELLOW COLOR.
- B. DUCTLESS MINI-SPLIT EQUIPMENT THAT PRODUCES CONDENSATE SHALL BE PROVIDED WITH AN IN-LINE CHECK VALVE LOCATED IN THE DRAIN LINE OR TRAP. COORDINATE WITH MANUFACTURER'S RECOMMENDATIONS.
- 9. AN AUXILIARY DRAIN PAN WITHOUT A SEPARATE DRAIN LINE SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATE WILL OCCUR. SUCH PAN SHALL BE EQUIPPED WITH A WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHUT OFF THE EQUIPMENT SERVED PRIOR TO OVERFLOW OF THE PAN. THE AUXILIARY DRAIN PAN SHALL HAVE A MINIMUM DEPTH OF 1-1/2 INCHES, SHALL BE NOT LESS THAN 3 INCHES LARGER THAN THE UNIT, OR THE COIL DIMENSIONS IN WIDTH AND LENGTH AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIAL. GALVANIZED SHEET STEEL PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0236 INCH (NO 24 GAGE). NONMETALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0625 INCH.
- IO. A WATER—LEVEL DETECTION DEVICE CONFORMING TO UL 508 SHALL BE PROVIDED THAT WILL SHUT OFF TH EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE, OR IN THE EQUIPMENT-SUPPLIED DRAIN PAN, LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
- . WATER—LEVEL MONITORING DEVICES : ON DOWN—FLOW UNITS AND ALL OTHER COILS THAT DO NOT HAVE A SECONDARY DRAIN OR PROVISIONS TO INSTALL A SECONDARY OR AUXILIARY DRAIN PAN, A WATER-LEVEL MONITORING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN BECOMES RESTRICTED. DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
- 2. <u>APPLIANCE, EQUIPMENT AND INSULATION IN PANS</u>: WHERE APPLIANCES, EQUIPMENT OR INSULATION ARE SUBJECT TO WATER DAMAGE WHEN AUXILIARY DRAIN PANS FILL, THAT PORTION OF THE APPLIANCE, EQUIPMENT AND INSULATION SHALL BE INSTALLED ABOVE THE RIM OF THE PAN. SUPPORTS LOCATED INSIDE OF THE PAN TO SUPPORT THE APPLIANCE OR EQUIPMENT SHALL BE WATER RESISTANT AND APPROVED.
- 13. TRAPS : CONDENSATE DRAINS SHALL BE TRAPPED AS REQUIRED BY THE EQUIPMENT OR APPLIANCE MANUFACTURER.
- 4. <u>DUCTLESS MINI-SPLIT SYSTEM TRAPS</u>: DUCTLESS MINI-SPLIT EQUIPMENT THAT PRODUCES CONDENSATE SHALL BE PROVIDED WITH AN INLINE CHECK VALVE LOCATED IN THE DRAIN LINE, OR A TRAP.
- 5. CONDENSATE PUMPS: CONDENSATE PUMPS LOCATED IN UNINHABITABLE SPACES, SUCH AS ATTICS AND CRAW SPACES, SHALL BE CONNECTED TO THE APPLIANCE OR EQUIPMENT SERVED SUCH THAT WHEN THE PUMP FAILS, THE APPLIANCE OR EQUIPMENT WILL BE PREVENTED FROM OPERATING PUMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

| | | PLUMBII | NG I | EQI | UIP | ME | NT | SC | CHEDULE |
|-------------|---|--|---------|-------------------|---------------|--------------|--------------|--------------|---|
| MARK NO. | FIXTURE TYPE | MANUFACTURER'S MODEL NO. | MOUNT | MOUNT HEIGHT | WASTE SIZE | VENT SIZE | C.W. SIZE | H.W. SIZE | NOTES |
| WC-1 | WATER CLOSET FLUSH VALVE | ZURN MODEL NO. Z5655 OR APPROVED EQUAL | FLOOR | 15" TO RIM | 4" | 2" | 1 1/4" | - | WHITE ELONGATED VITREOUS CHINA, FLUSH VALVE WALL SUPPORT, WHITE OPEN FRONT SOLID PLASTIC SEAT, BOLT CAPS 12" ROUGH—IN, ZURN Z6000AV—YJ FLUSH VALVE |
| WC-1A | WATER CLOSET FLUSH VALVE ADA | ZURN MODEL NO. Z5665 OR APPROVED EQUAL | FLOOR | 16-1/8" TO RIM | 4" | 2" | 1 1/4" | - | WHITE ELONGATED VITREOUS CHINA, FLUSH VALVE WALL SUPPORT, WHITE OPEN FRONT SOLID PLASTIC SEAT, BOLT CAPS. HCP. 12" ROUGH—IN, ZURN Z6000AV—YJ FLUSH VALVE |
| U-1A | URINAL ADA WALL MOUNTED | ZURN MODEL NO. Z5755 OR APPROVED EQUAL | WALL | 17" TO LIP | 2" | 1-1/4" | 1" | - | WHITE VITREOUS CHINA, ZURN Z6003AV—YJ FLUSH VALVE, BOLT CAPS, WALL HANGER, 1 GAL. VERSION |
| L-1A | LAVATORY, ADA 20"X18" | ZURN MODEL NO. Z5344 OR APPROVED EQUAL | WALL | 34" TO LIP | 1-1/4" | 1-1/4" | 1/2" | 1/2" | WHITE VITREOUS CHINA, OPEN GRID STRAINER, DELTA MODEL 501—DST FAUCET, W/ 0.5 GPM AERATOR; P—TRAP W/ CLEANOUT; CONCEALED ARM CARRIER; SUPPLIES W/ STOPS |
| SS-1 | SERVICE SINK 24 X 24 | FIAT MODEL NO. MSB-2424 OR APPROVED EQUAL | FLOOR | SEE DETAIL | 3" | 2" | 1/2" | 1/2" | MOLDED-STONE, DELTA NO. 28C2383, 3" IPS STRAINER, POLISHED CHROME FAUCET WITH VACUUM BREAKER, HOSE/ WALL BRACKET, MOP HANGER |
| S-1 | STAINLESS SINK SINGLE COMPARTMENT | JUST MODEL NO. SL-ADA-2219-A-GR OR APPROVED EQUAL | CABINET | - | 1-1/2" | 1-1/4" | 1/2" | 1/2" | JUST MODEL NO. J-35 STRAINER, DELTA MODEL 100LF-HDF (1.5 GPM) FAUCET, SUPPLIES WITH STOPS, P-TRAP WITH CLEANOUT, 4-1/2" DEEP BOWL |
| SH-1A | SHOWER PRE-FAB, ADA 38"X38" | EVERFAB MODEL S3839A-L/R OR APPROVED EQUAL | FLOOR | _ | 2" | 1-1/2" | 1/2" | 1/2" | DELTA MODEL NO. T13H333, DELTA MODEL NO. R10000 VALVE BODY, MIXING VALVE WITH SHOWER HEAD, INCLUDE SCHIER MODEL SS-412-P SHOWER DRAIN, FOLDING SEAT, AND GRAB BARS. VERIFY WITH PLANS FOR RIGHT OR LEFT MOUNTING. |

| | PLUMBING SPECIALITY SCHEDULE | | | | | | | | | |
|-------------|------------------------------|---|-------|------------------|---------------|--------------|--------------|--------------|------------------------|---|
| MARK NO. | FIXTURE TYPE | MANUFACTURER'S MODEL NO. | MOUNT | MOUNT HEIGHT | WASTE SIZE | VENT SIZE | C.W. SIZE | H.W. SIZE | MIXED WATER SIZE | NOTES |
| FD-1 | FLOOR DRAIN | KYBERIT SCHLUTER SYSTEM OR APPROVED EQUAL | FLOOR | _ | 4" | 2" | _ | - | - | 4 INCH SATIN STAINLESS STEEL; W/ PROSET SYSTEM INC. TG34IP RETROFIT TRAP GUARD |
| HD-1 | HUB DRAIN | PROSET MODEL SYSTEM INC. MODEL NO. TG34IP OR APPROVED EQUAL | FLOOR | _ | 4" | 2" | _ | _ | _ | STUB TO 1" A.F.F. |
| WH-1 | WALL HYDRANT | WOODFORD MODEL NO. B65 OR APPROVED EQUAL | WALL | 18" TO 24" | - | - | 3/4" | - | - | FREEZELESS, ANTI-SIPHON, LOCKING BOX |
| WB-1 | ICEMAKER WALLBOX | OATEY MODEL NO. 38574 OR APPROVED EQUAL | WALL | 36" A.F.F. | ı | ı | 1/2" | - | - | 1/4 TURN BRASS BALL VALVE — COPPER SWEAT —STANDARD PACK WITH 6' STAINLESS STEEL HOSE |
| F.C.O. | FLOOR CLEANOUT | ZURN MODEL NO. ZN-1400-2 OR APPROVED EQUAL | FLOOR | - | 4" | ı | - | ı | ı | 6" DIA. ADJUSTABLE NICKEL BRONZE TOP |
| W.C.O. | WALL CLEANOUT | ZURN MODEL NO. Z-1441 OR APPROVED EQUAL | WALL | _ | 4" | ı | - | - | - | 7" DIA. STAINLESS STEEL COVER |
| W.H.A. | WATER HAMMER ARRESTOR | ZURN SERIES 1700 OR APPROVED EQUAL | - | _ | | П | VARIES | VARIES | - | |
| EQUA | LS BY JAY R SMITH, ZU | RN, OATEY, OR JONES WILL BE ACCEPTE | D | - | | | - | - | - | |

| | | ELECTRIC | WA ⁻ | ſΕF | S C | 00 | LE | R SCHEDULE |
|-------------|--|---|-----------------|------------------------------|---------------|--------------|--------------|---|
| MARK NO. | FIXTURE TYPE | MANUFACTURER'S MODEL NO. | MOUNT | MOUNT HEIGHT | WASTE SIZE | VENT SIZE | C.W. SIZE | NOTES |
| EWC-1 | ELECTRIC WATER COOLER, ADA SPLIT LEVEL | ELKAY MODEL NO. EZSTL8WSSK OR APPROVED EQUAL | WALL | 34-1/2" TO NOZ. CENTER | 1-1/4" | 1-1/4" | 1/2" | ADA MOUNTED AT 34.5" AFF TO NOZZLE CENTERLINE, STAINLESS STEEL W/TRIM BEZEL, WITH BOTTLE FILLING STATION, FILTER, MOUNTING KIT, INCLUDE ELKAY MODEL NO. LKAPREZL CANE APRON |

| | ELECTRIC WATER HEATER SCHEDULE | | | | | | | | |
|-------|-------------------------------------|--|---------|----------------|---------------|------------------|---------------|---------------|--|
| MARK | FIXTURE TYPE | MANUFACTURER'S MODEL NO. | SIZE | VOLTAGE | WATTS SIZE | DIMENSIONS | C.W. INLET | H.W. INLET | NOTES |
| EWH-1 | ELECTRIC WATER HEATER LOW BOY | A.O. SMITH MODEL NO. DEL-10 OR APPROVED EQUAL | 10 GAL. | 240 1 PHASE | 4,500 | 18"ø 18–1/4"H | 3/4" | 3/4" | 4,500 WATT NON-SIMULTANEOUS ELEMENTS ASHRAE 90.1 COMPLIANT; SIDE CONNECTIONS |
| IWH-1 | IN-LINE WATER HEATER | CHRONOMITE MODEL NO. SR-20L OR APPROVED EQUAL | - | 208 1 PH | 4800 | - | 1/2" | 1/2" | |
| IWH-2 | IN-LINE WATER HEATER | CHRONOMITE MODEL NO. SR-20L OR APPROVED EQUAL | _ | 208 1 PH | 4800 | _ | 1/2" | 1/2" | |

| IDOOR G | SAS V | NATE | R HE | EAT | ER | SC | ΗE | DU | LE |
|---|--|---|---|---|---|--|--|--|--|
| MODEL NO. | BTU INPUT | RECOVERY GPH @ 45°/77° RISE | GAS CONN SIZE | WIDTH SIZE | DEPTH SIZE | HEIGHT SIZE | WATER CONN SIZE | APPROX SHIP WEIGHT | VOLTAGE |
| RHEEM NO RTGH-95DVN OR APP'V EQUAL. | 199,000 | 8.4/4.9 | 3/4" | 18-1/2" | 9-3/4" | 27-1/2" | 3/4" | 82 | 120-1-60 |
| RHEEM NO RTGH-95DVN OR APP'V EQUAL. | 199,000 | 8.4/4.9 | 3/4" | 18-1/2" | 9-3/4" | 27-1/2" | 3/4" | 82 | 120-1-60 |
| RHEEM NO RTGH-95DVN OR APP'V EQUAL. | 199,000 | 8.4/4.9 | 3/4" | 18-1/2" | 9-3/4" | 27-1/2" | 3/4" | 82 | 120-1-60 |
| | MODEL NO. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN | MODEL NO. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 | MODEL NO. BTU INPUT RECOVERY GPH @ 45'/77' RISE RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 8.4/4.9 | MODEL NO. BTU INPUT RECOVERY GPH @ 45*/77* RISE RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 8.4/4.9 3/4" | MODEL NO. BTU INPUT RECOVERY GPH @ 45*/77* RISE RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 8.4/4.9 3/4" 18-1/2" | MODEL NO. BTU INPUT RECOVERY GAS CONN SIZE DEPTH SIZE RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 8.4/4.9 3/4" 18-1/2" 9-3/4" | MODEL NO. BTU INPUT RECOVERY GPH @ 45*/77* RISE RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 RTGH-95DVN 199,000 8.4/4.9 3/4" 18-1/2" 9-3/4" 27-1/2" | MODEL NO. BTU INPUT RECOVERY GPH @ 45°/77° RISE GAS CONN SIZE WIDTH SIZE DEPTH SIZE HEIGHT SIZE WATER CONN SIZE RHEEM NO RTGH−95DVN OR APP'V EQUAL. 199,000 8.4/4.9 3/4" 18−1/2" 9−3/4" 27−1/2" 3/4" RHEEM NO RTGH−95DVN OR APP'V EQUAL. 199,000 8.4/4.9 3/4" 18−1/2" 9−3/4" 27−1/2" 3/4" RHEEM NO RTGH−95DVN 199,000 8.4/4.9 3/4" 18−1/2" 9−3/4" 27−1/2" 3/4" | RHEEM NO RTGH-95DVN OR APP'V EQUAL. RHEEM NO RTGH-95DVN 199,000 8.4/4.9 RHEEM NO RTGH-95DVN 199,000 8.4/4.9 |

- SINGLE COMMERCIAL WALL MOUNTED REMOTE CONTROL
- HORIZONTAL/VERTICAL 3" PVC CONCENTRIC VENT KIT (REFERENCE PLAN FOR ROUTING TYPE)
- (3) NATURAL GAS PRESSURE: 7" 10.5" W.C.

EQUALS BY ELJER, KOHLER, TOTO, AND AMERICAN STANDARD WILL BE ACCEPTED.

EQUALS BY STATE, RHEEM, OR A. O. SMITH WILL BE ACCEPTED

- (4) ELECTRICAL IS 120-1-60, 90 WATTS
- (5) INSTALLATION SHALL INCLUDE GAS PRESSURE REGULATOR TO REDUCE GAS PRESSURE FROM 2 PSIG TO 9 W.C.
- WARRANTY: 12 YEARS HEAT EXCHANGER, 5 YEAR PARTS, 1 YEAR LABOR SUPPLIED WITH A 120 VOLT POWER CORD
- MSA MANIFOLD CONTROL PACK FOR TOTAL OF 2 WATER HEATERS.
- (8) FURNISH AND INSTALL ROOM CARBON MONOXIDE DETECTOR. CARBON MONOXIDE DECTETOR SHALL BE EQUAL TO KIDDE HARDWIRED (120V) CARBON MONOXIDE DETECTOR WITH 9-VOLT BATTERY BACKUP.

| PI | PLUMBING DRAWING INDEX | | | | | | | |
|-----------|---------------------------------------|--|--|--|--|--|--|--|
| SHEET NO. | SHEET TITLE | | | | | | | |
| P1.1 | PLUMBING SCHEDULES, LEGEND, AND NOTES | | | | | | | |
| P1.2 | PLUMBING DETAILS | | | | | | | |
| P2.1 | WASTE & CONDENSATE PLUMBING PLAN | | | | | | | |
| P2.2 | WASTE PLUMBING RISER DIAGRAMS | | | | | | | |
| P3.1 | WATER & GAS PLUMBING PLAN | | | | | | | |
| P3.2 | WATER & GAS PLUMBING RISER DIAGRAMS | | | | | | | |

| F | PLUMBING | LEGE | END |
|--------|-----------------------|----------|---|
| \$\$ | SANITARY SEWER | C.O. | CLEANOUT UP TO GRADE |
| v | VENT | | FLOOR DRAIN |
| CW | COLD WATER | 0 | HUB DRAIN |
| 110 | 110° HOT WATER | -0-0 | HOT WATER RETURN PUMP |
| 140 | 140° HOT WATER | SV. | BALL VALVE |
| 140HWR | 140° HOT WATER RETURN | 6 | BALL VALVE IN PLASTIC METER BOX W/ CAST IRON LID |
| NG NG | NATURAL GAS | - └ VTR | VENT THRU ROOF |
| CD | CONDENSATE DRAIN | AAV | AIR ADMITTANCE VALVE (SBCCI APPROVED) |
| | | | 1/2" TRAP PRIMER LINE |

| | | PORTS - SCHEDUL SUPPORT SPACING (FEET) | E 40 | | | |
|----------|-----|---|-------------|--|--|--|
| NPS | | OPERATING TEMPERATURE (°F) | | | | |
| (INCHES) | 60 | 100 | 140 | | | |
| 1/2 | 4.5 | 4 | 2.5 | | | |
| 3/4 | 5 | 4 | 2.5 | | | |
| 1 | 5.5 | 4.5 | 2.5 | | | |
| 1-1/4 | 5.5 | 5 | 3 | | | |
| 1-1/2 | 6 | 5 | 3 | | | |
| 2 | 6 | 5 | 3 | | | |
| 3 | 7 | 6 | 3.5 | | | |
| 4 | 7.5 | 6.5 | 4 | | | |
| 6 | 8.5 | 7.5 | 4.5 | | | |
| 8 | 9 | 8 | 4.5 | | | |
| | | PORTS - SCHEDUL SUPPORT SPACING (FEET) | _E 80 | | | |
| NPS | | OPERATING TEMPERATURE (°F) | | | | |
| (INCHES) | 60 | 100 | 140 | | | |
| 1/2 | 5 | 4.5 | 2.5 | | | |
| 3/4 | 5.5 | 4.5 | 2.5 | | | |
| 1 | 6 | 5 | 3 | | | |
| 1-1/2 | 6.5 | 5.5 | 3.5 | | | |
| 2 | 7 | 6 | 3.5 | | | |
| 3 | 8 | 7 | 4 | | | |
| 4 | 9 | 7.5 | 4.5 | | | |
| 6 | 10 | 9 | 5 | | | |
| 8 | 11 | 9.5 | 5.5 | | | |

CODES AND STANDARDS

- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL FIRE CODE 2021 ACC/NSSA STANDARD FOR THE DESIGN AND
- **CONSTRUCTION OF STORM SHELTERS**

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

| I MARK I I I I I MAXIMUM I MINIMUM I DESIGN I MEGA | CI | RCI | JL | ATC | PUM | P SCHEDULE | | | | | | |
|---|----|------|-----|------|-----|------------|------------|--|------------------------------|--|--|--|
| I NO I THE LOUN I THE I HD LEEDOLENOVI ELLOUNODE I MEOD I THE THE | | TYPE | GPM | HEAD | | | ELECTRICAL | | DESIGN MFGR. MODEL NO. | | | |

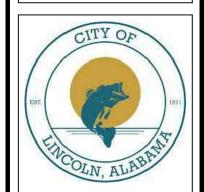
- 1) SmartPlus—e HOT WATER RECIRCULATION PUMP
 WITH SmartPlug CONTROLS FOR DOMESTIC WATER

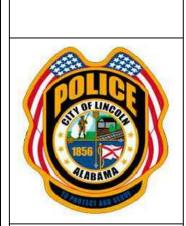
 3 6 FT. CORD
- (2) 1" BRONZE SWEAT

| MIXING VALVE SCHEDULE | | | | | | | | | | | | | |
|--|---------------------------------------|------------------------|-----------|------|--|--|--|--|--|--|--|--|--|
| MARK NO. MANUFACTURER'S MODEL NO. TEMPERATURE (*F) | | | | | | | | | | | | | |
| MV-1 | POWERS SERIES LFLM495 | SET AT 90°-110° | 1/2" | 1/2" | | | | | | | | | |
| MV-2 | POWERS SERIES LFLM496 | SET AT 90°-110° | 3/4" | 3/4" | | | | | | | | | |
| UNLESS OT | HERWISE NOTED, MIXING VALVES SHALL CO | NFORM TO ASSE 1070 AND | ASSE 1017 | | | | | | | | | | |



ARCHITECTURE ANNISTON, AL 36206 256.689.0238 WWW.BILLWARCH.COM





City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Hays Cheatwood Consulting P.O. Box 250 Pinson, AL 35126

03.31.25 BID

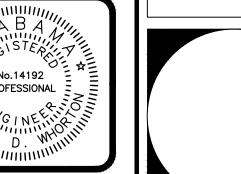
205-942-0696

Attn: Tony Dodd

JOB NO. 24001

DESCRIPTION: PLUMBING SCHEDULES LEGEND, AND

SHEET



PLUMBING SCHEDULES, LEGEND, AND NOTES

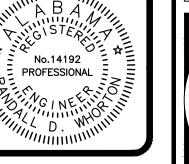
WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

WHORTON ENGINEERING PROJECT NO. 23222

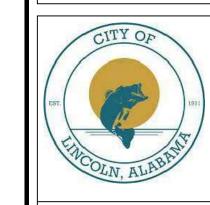
006e3LC

Kandree Whoston RANDALL WHORTON, P.E. PHONE: (256) 820-9897

DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205







NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA



OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C 236 Martin Street Anniston, AL 36206 CIVIL ENGINEER TTL 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Hays Cheatwood Consulting P.O. Box 250

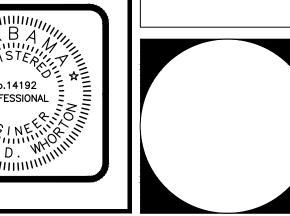
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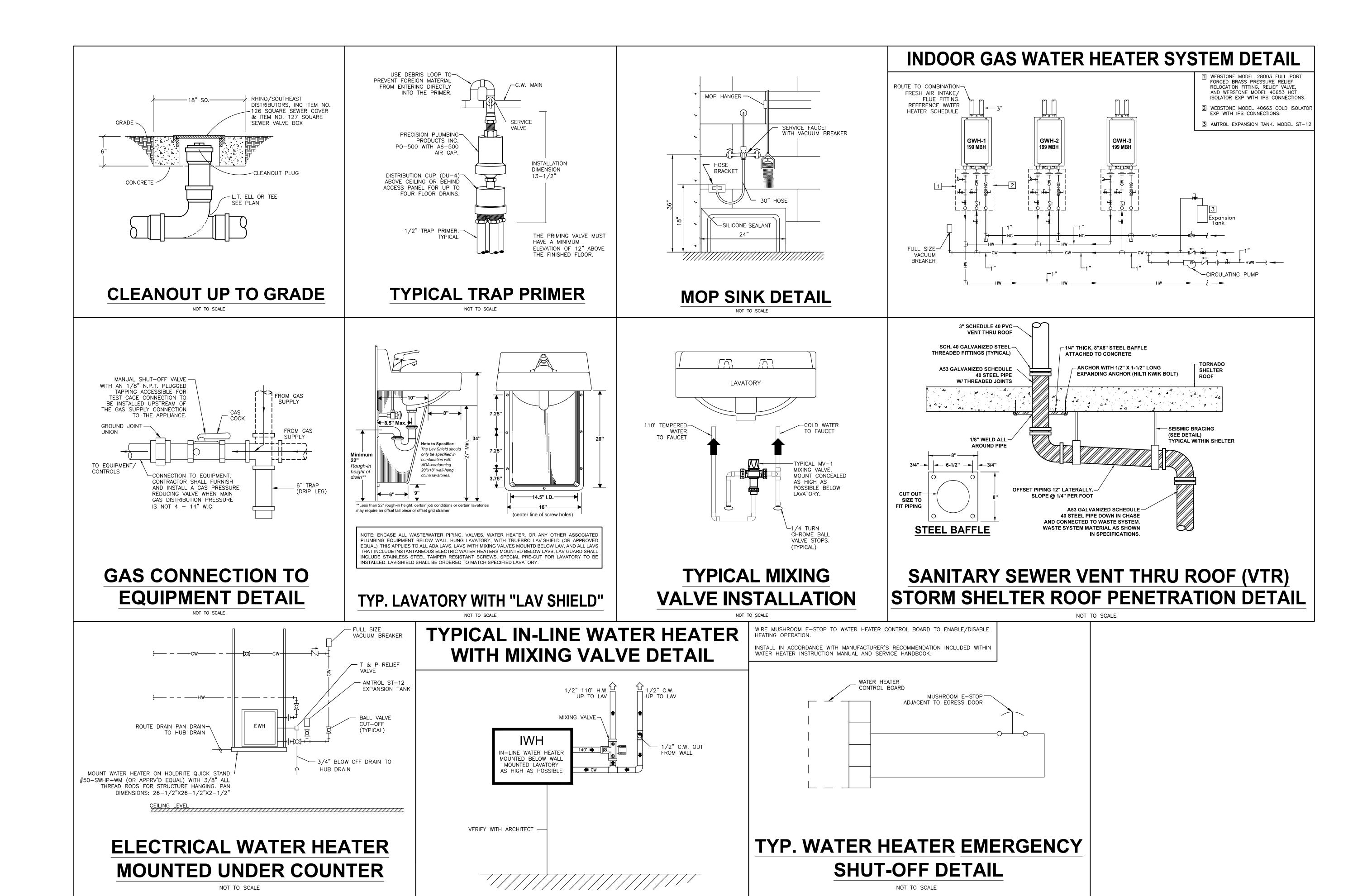
Pinson, AL 35126 205-942-0696

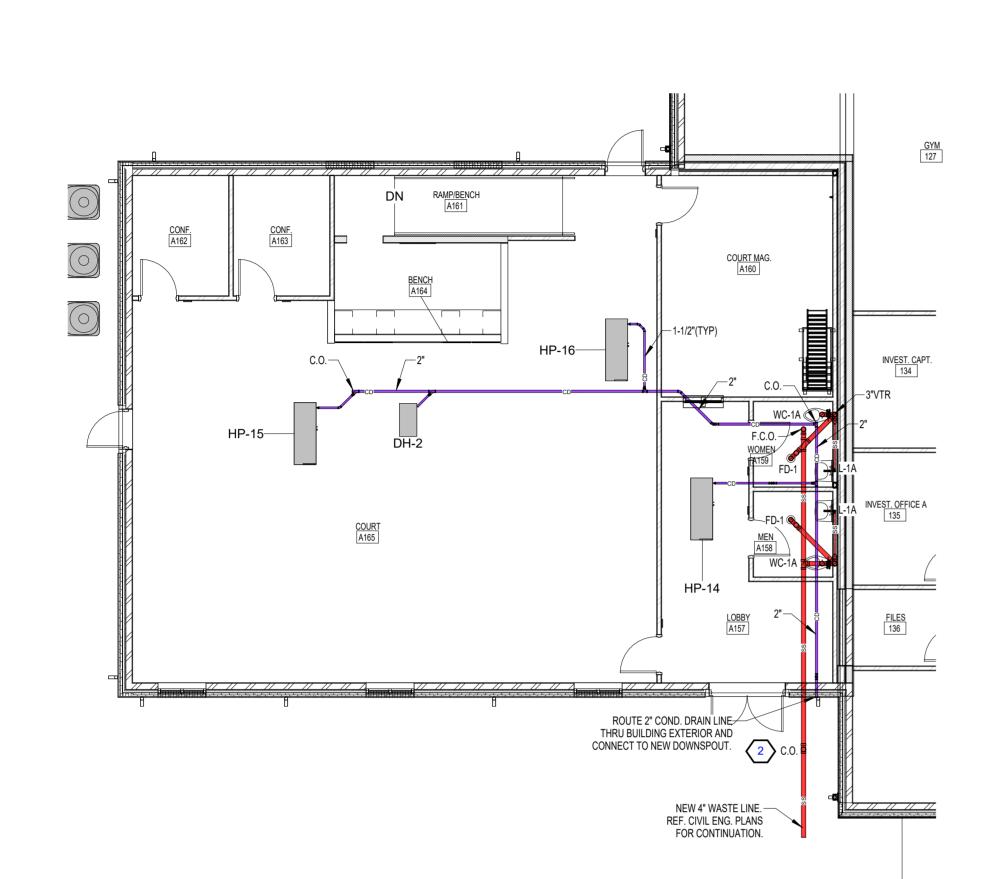
JOB NO. 24001

DESCRIPTION:
PLUMBING
DETAILS

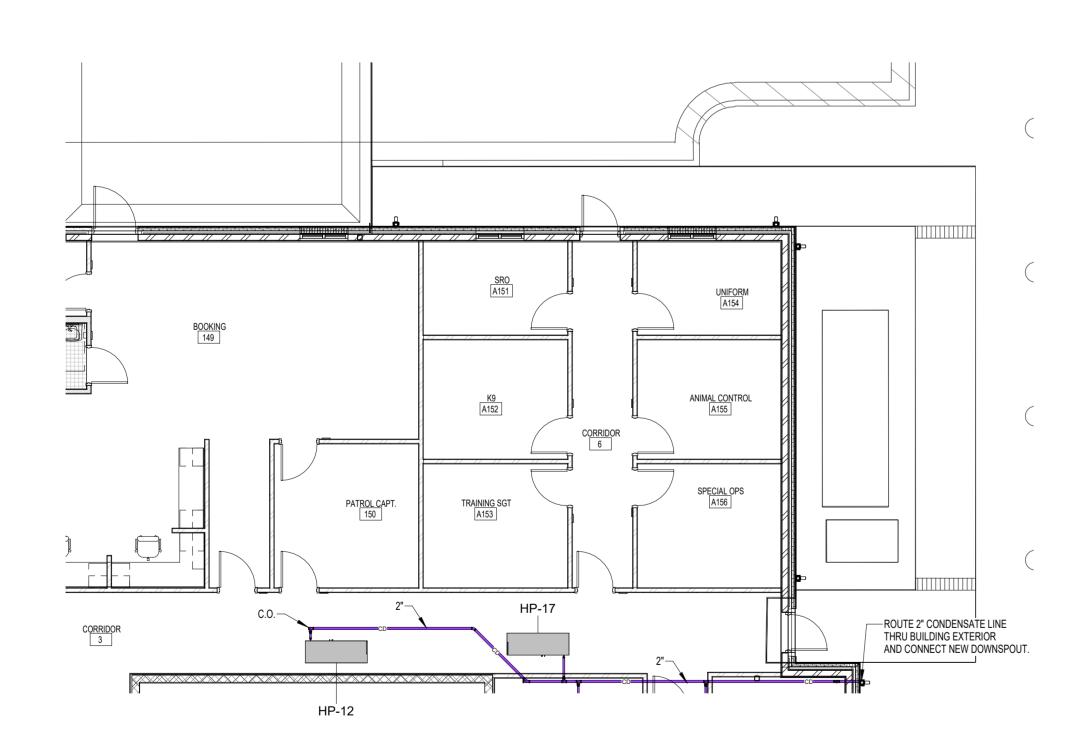
SHEET



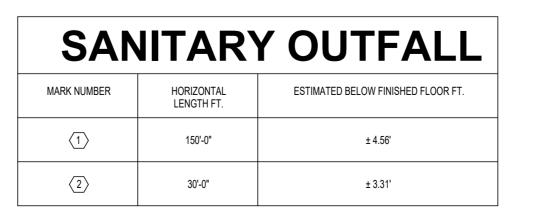




WASTE & CONDENSATE PLUMBING PLAN - COURT ROOM ALTERNATE 1/8" = 1'-0"



CONDENSATE PLUMBING PLAN - OFFICE ALTERNATE



_LIMITS OF STORM SHELTER - -

COURT ROOM ALTERNATE AREA (SEE COURT ROOM ALTERNATE)

BREAK/STORM_SHELTER

2" COND. DRAIN LINE-

ROUTE 1-1/2" CONDENSATE DOWN-IN ROOM TO FLOOR DRAIN

1-1/2" COND. DRAIN LINE STORAGE ROUTED ACROSS FLOOR 145 TO FLOOR DRAIN.

OFFSET DOWN TO ELEV. = 3'-0" B.F.F.

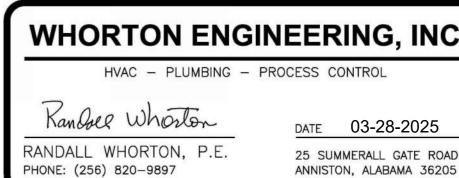
INVESTIGATIONS
133

ROUTE 2" COND. DRAIN LINE— THRU BUILDING EXTERIOR AND CONNECT TO NEW DOWNSPOUT.

NEW 4" WASTE LINE.— REF. CIVIL ENG. PLANS FOR CONTINUATION.



WASTE & CONDENSATE PLUMBING PLAN



OFFICE AREA SHELL SPACE

(SEE OFFICE AREA ALTERNATE)

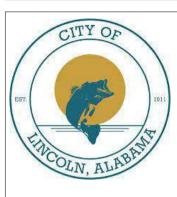
WHORTON ENGINEERING, INC. DATE 03-28-2025 25 SUMMERALL GATE ROAD



WHORTON ENGINEERING PROJECT NO. 23222



ARCHITECTURE ANNISTON, AL 36206 256.689.0238 WWW.BILLWARCH.COM



CONNECT TO NEW DOWNSPOUT.

ROUTE 2" COND. DRAIN LINE
THRU BUILDING EXTERIOR AND
CONNECT TO NEW DOWNSPOUT.



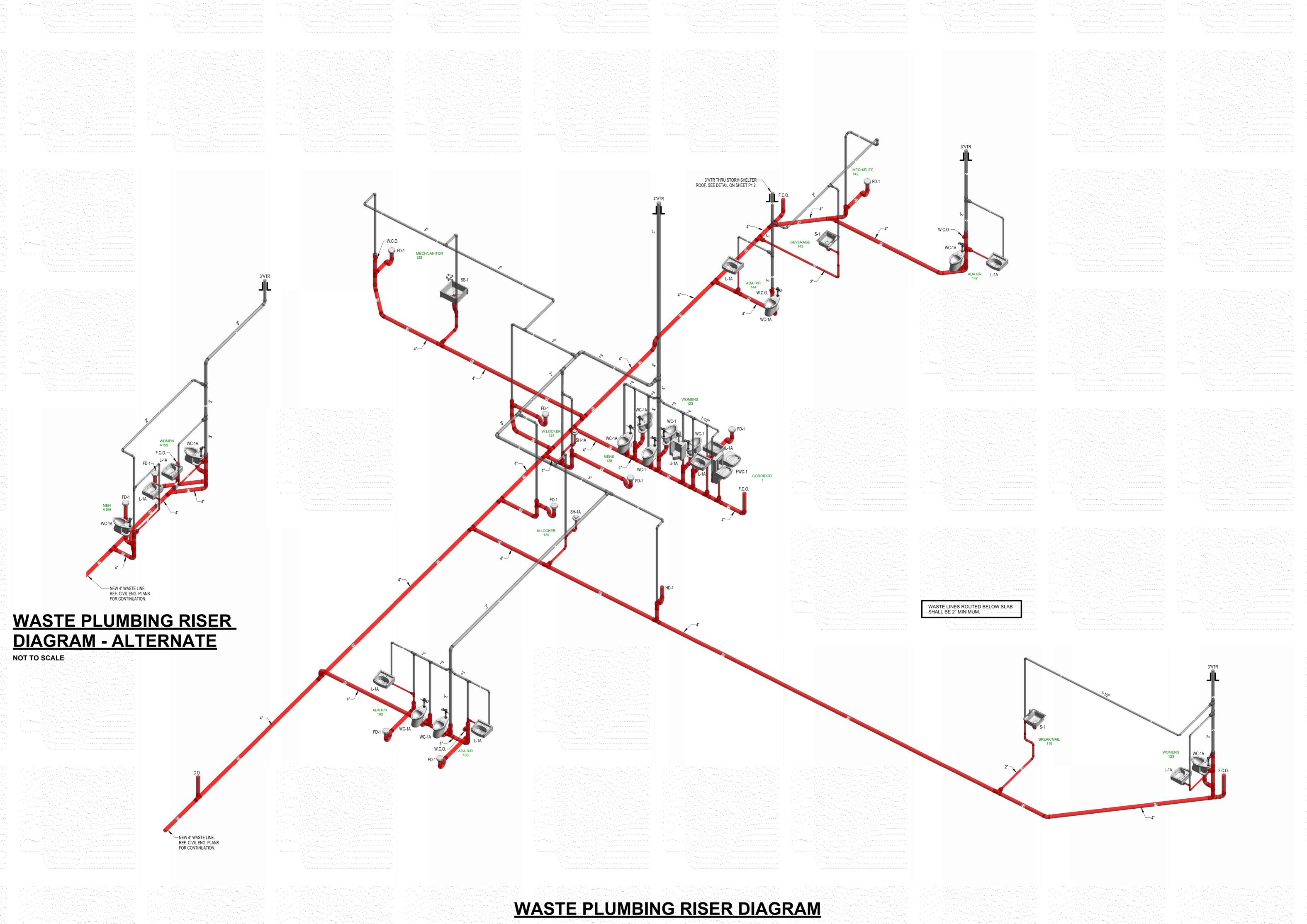
OWNER
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150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson ARCHITECT
Bill Whittaker, P.C.
Architecture
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ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd ISSUE:

03.31.25 BID

24001 DESCRIPTION: WASTE & CONDENSATE PLUMBING PLAN



IOT TO SCALE

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WHORTON ENGINEERING, INC.

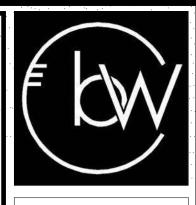
HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

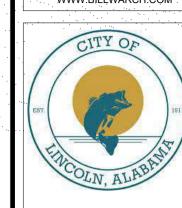
DATE 03-28-2025

25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 23222



BILL WHITTAKER ARCHITECTUI 236 MARTIN STREE ANNISTON, AL 3620 256.689.0238



EW CITY OF LINCOLN OLICE DEPARTMENT LINCOLN, ALABAMA



OWNER
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Attn: Jeremy Deal

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PROTECTION ENGINEE
Whorton Engineering, Inc
25 Summerall Gate Road
Anniston, AL 36205
256-820-9897
Attn: Randy Whorton

ELECTRICAL ENGINEER
Hays Cheatwood Consult

Attn: Tony Dodd

ISSUE:

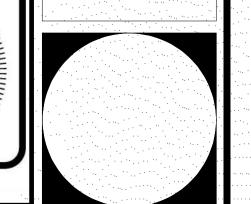
03.31.25 BID

JOB NO.
24001

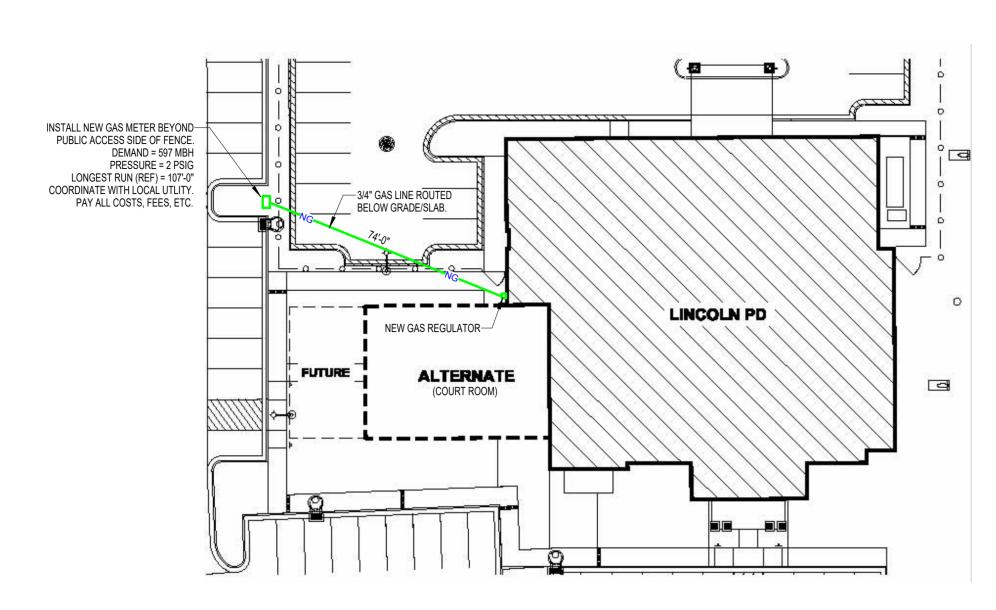
DESCRIPTION:
WASTE
PLUMBING RISE
DIAGRAM

SHEET

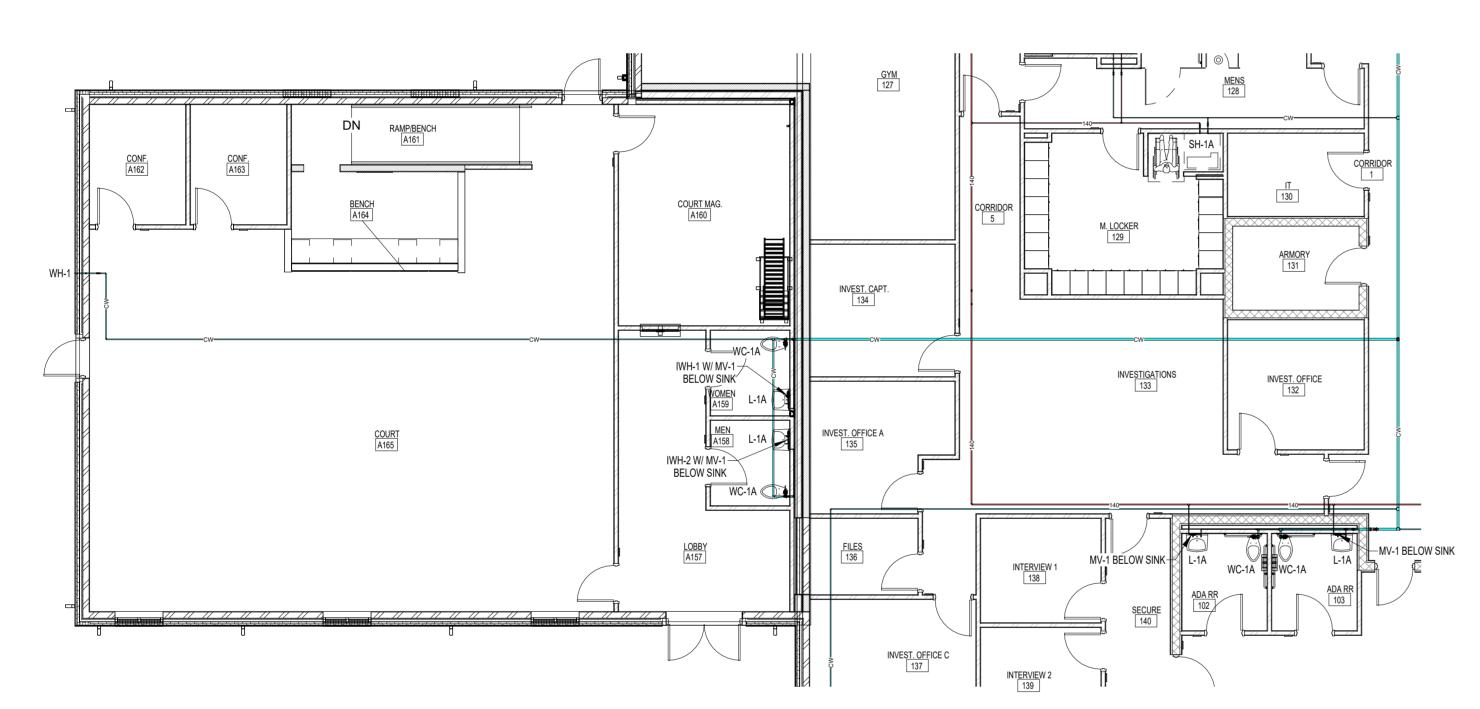
P2.2



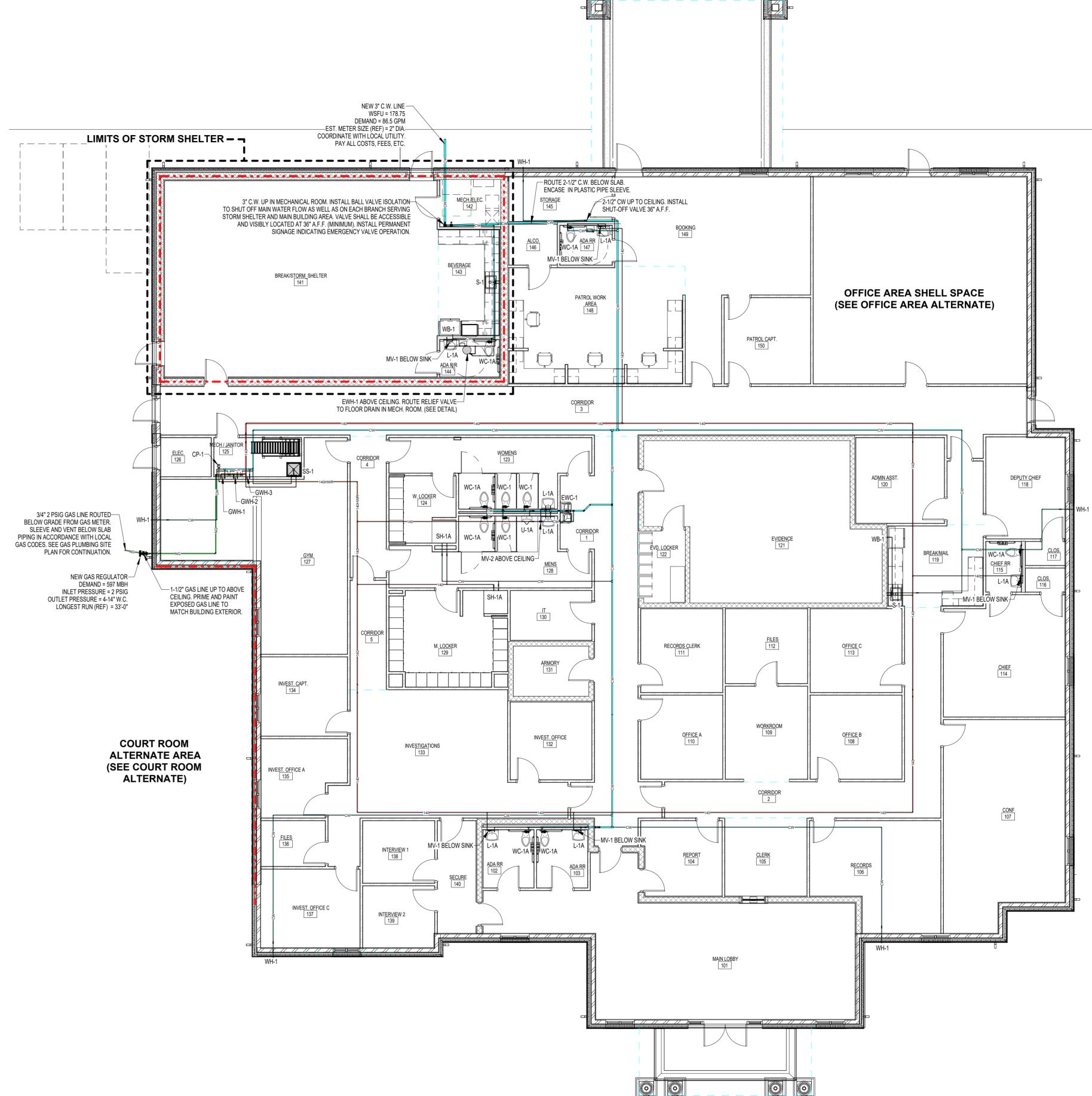


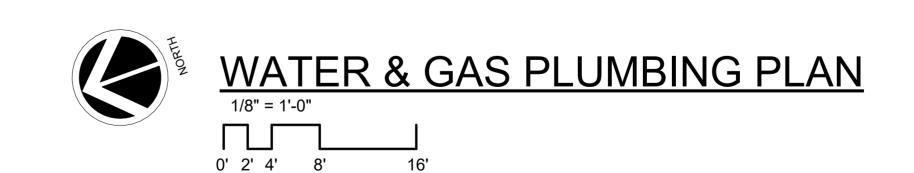


GAS PLUMBING SITE PLAN
NOT TO SCALE



WATER PLUMBING PLAN - COURT ROOM ALTERNATE 0' 2' 4' 8'



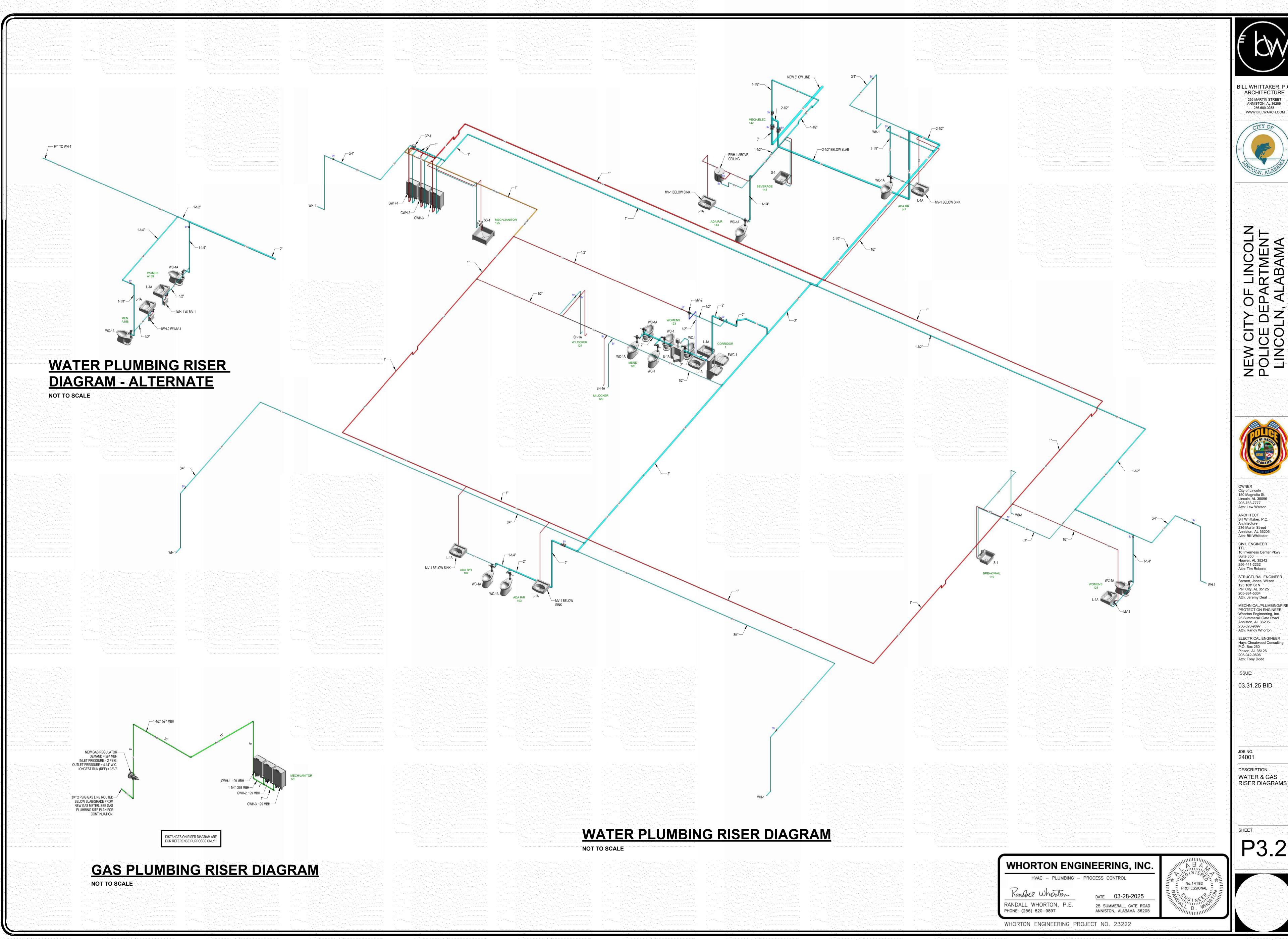


FIREWALL LEGEND **ONE HOUR RATED FIRE BARRIER** WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL RANDALL WHORTON, P.E.

PHONE: (256) 820-9897

DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205 WHORTON ENGINEERING PROJECT NO. 23222



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256-441-2232
Attn: Tim Roberts

MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton

03.31.25 BID

DESCRIPTION:

City of Lincoln

P.O. Box 250 Pinson, AL 35126

Attn: Tony Dodd

ELECTRICAL ENGINEER

Hays Cheatwood Consulting

| | | Н | VAC LEGEND | | |
|----------------------|--|--------|---|--------|---|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| \boxtimes | CEILING DIFFUSER — SUPPLY RECTANGULAR WITH ROUND NECK 4—WAY THROW UNLESS OTHERWISE INDICATED | (S) P | DUCT MOUNTED STATIC PRESSURE SENSOR | J | STANDARD 90° RADIUS ELBOW |
| | CEILING DIFFUSER — RETURN RECTANGULAR WITH SQUARE NECK | | MANUAL VOLUME DAMPER OPPOSED BLADE | ₩ | STANDARD 45° RADIUS ELBOW |
| | SIDEWALL DIFFUSER — SUPPLY WITH MULTI—VANE DEFLECTOR | ** | LOW LEAKAGE MOTORIZED VOLUME DAMPER | | 90° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING) |
| <u></u> | SIDEWALL DIFFUSER — RETURN WITH 30° FIXED DEFLECTION | \$ 0 | SMOKE DETECTOR FOR FAN SHUT-DOWN | | 45° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING) |
| XX-X XXX CFM | DIFFUSER TAG REFERENCE SCHEDULE FOR SIZING | \$ \ | IN DUCT SENSOR (TEMP/HUMIDITY) LOCATION | | VANED TEE (PROVIDE ALL SQUARE OR RECTANGULAR TEE'S WITH VANES EVEN IF SYMBOL IS MISSING) |
| 8 | CEILING EXHAUST FAN | | HORIZONTAL MOUNTED FIRE DAMPER | | STANDARD DUCT SIZE TRANSITION |
| 12"X12" | NEW RECTANGULAR DUCT WIDTH X DEPTH | ~ | VERTICAL MOUNTED FIRE DAMPER | | STANDARD SQUARE TO ROUND TRANSITION |
| | NEW ROUND DUCT DIAMETER | T | THERMOSTAT LOCATION | CD | HVAC CONDENSATE DRAIN PIPING |
| | ACCESS DOORS VERTICAL OR HORIZONTAL | H | HUMIDISTAT LOCATION | R | HVAC REFRIGERANT LINE |
| ∏ R ▼ | DUCT RISE IN DIRECTION OF ARROW | C | CARBON DIOXIDE SENSOR LOCATION | | |
| \-D\ | DUCT DROP IN DIRECTION OF ARROW | • | ELECTRIC UNIT HEATER WALL MOUNTED (RECESSED) | | |

HVAC NOTES

- (1) ALL DUCT DIMENSIONS SHOWN ARE NET INTERNAL.
- INSTALL OPPOSED BLADE BALANCING DAMPERS IN ALL NEW DIFFUSERS AND GRILLES.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES; COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL.
- COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE
- THE HVAC CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL RATED WALLS, CEILINGS, FLOORS, ETC. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL FIRE OR FIRE/SMOKE DAMPERS IN ALL RATED LOCATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- (10) ALL THREE PHASE EQUIPMENT SHALL BE EQUIPPED WITH PHASE LOSS PROTECTION.
- ALL MOTOR STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.
- CONTRACTOR TO COORDINATE ALL CEILING TYPES WITH DIFFUSERS. ALL DIFFUSERS IN GYPSUM CEILING SHALL INCLUDE PLASTER FRAME.
- ALL DISTRIBUTION DEVICES SHALL HAVE FACE OPERABLE DAMPERS. ALL DIFFUSER RUNOUTS SHALL INCLUDE SPIN-IN WITH DAMPER IN ROUND DUCTS.

(14) INSULATE TOP SIDE/BACK OF ALL DIFFUSERS/GRILLES, ETC.

- CONDENSATE DRAIN PIPING SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT AND SHALL BE SIZED PER TABLE 307.2.2 IN THE 2021 INTERNATIONAL MECHANICAL CODE UNLESS SHOWN LARGER ON PLANS.
- EQUAL WITH FLOAT SWITCH. INSTALL AUXILIARY DRAIN PAN UNDER ALL UNITS MOUNTED IN ATTIC, ABOVE CEILINGS,

ETC. INSTALL FLOAT SWITCH FOR UNIT SHUT DOWN IN AUXILIARY DRAIN PAN.

ARE NOT SHOWN ON THE PLUMBING PLANS, ALL CONDENSATE DRAINS SHALL BE

16) ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED

- REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. IF CONDENSATE DRAINS
- VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH ARCHITECT.

FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.

- 20) ALL UNUSED PORTION OF LOUVERS SHALL BE CAPPED OFF WITH 1" INSULATED ALUMINUM AND SEALED AIR/WATER TIGHT.
- ALL THERMOSTATS TO BE AUTOMATIC CHANGE OVER TYPE AND SHALL INCLUDE LOCKING THERMOSTAT COVERS.
- ALL THERMOSTATS TO BE MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL

- ALL REFRIGERANT LINES SHALL BE SIZED/APPROVED BY THE EQUIPMENT VENDOR/COMPRESSOR MANUFACTURER.
- PAINT ALL EXTERIOR EXPOSED ARMAFLEX INSULATION FOR UV PROTECTION.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- FLEXIBLE DUCT (SUPPLY RUNOUTS ONLY) SHALL NOT EXCEED 6'-0" IN LENGTH.
- DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: RECTANGULAR SUPPLY: 1" INTERNAL ROUND SUPPLY: 1-1/2" EXTERNAL FLEXIBLE SUPPLY: 1" PRE INSULATED RECTANGULAR RETURN: 1" INTERNAL
- DUCTWORK SHALL BE GALVANIZED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.

OSA/EXHAUST: 1-1/2" EXTERNAL

CHANGE OF DIRECTION (T'S, ELBOWS, ETC.)

WITH A MINIMUM INSTALLED R-VALUE OF 4.2.

- LABEL ALL DUCTS WITH TYPE (SUPPLY, RETURN, ETC.) AND ARROWS INDICATING DIRECTION OF AIR FLOW. LABELS SHALL BE EVERY SIX FEET AND AT EACH
- ROUND DUCT SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH MINIMUM INSTALLED R-VALUE 4.2. ROUND DUCTS LOCATED WITHIN THE ATTIC SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 100 WITH MINIMUM INSTALLED R-VALUE 6.0
- ALL OPEN ENDED DUCT SHALL BE CAPPED WITH 1/2"X1/2" WIRE MESH.
- ALL EXPOSED DUCT SHALL BE INSULATED INTERNALLY WITH 1" DUCT LINER EQUAL TO
- CERTAINTEED TG2 DUCT LINER WITH MINIMUM INSTALLED R-VALUE 4.0. ALL EXPOSED DUCT SHALL BE PAINTED. DUCT SHALL BE "PAINT GRIP". COORDINATE
- PAINT COLOR WITH ARCHITECT. DUCT LINER FOR RECTANGULAR DUCTS SHALL BE EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0. RECTANGULAR DUCTS LOCATED WITHIN THE ATTIC SHALL BE LINED WITH DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0 AND WRAPPED EXTERNALLY WITH DUCT WRAP EQUAL

TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75

- THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL A SMOKE DETECTOR FOR FIRE SHUT DOWN IN ALL UNITS 2000 CFM AND ABOVE AND IN ALL UNITS SERVING EXIT ACCESS CORRIDORS REGARDLESS OF SIZE.
- ALL DAMPERS INTERLOCKED WITH CARBON DIOXIDE SENSOR SHALL BE 24 VOLT MODULATING MOTORIZED DAMPER. DAMPER SHALL INCLUDE STEP DOWN TRANSFORMER
- WARRANTIES SHALL BEGIN AT DATE OF SUBSTANTIAL COMPLETION. ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT.
- INSTALL ANGLE COVER OVER CONDENSATE LINES, REFRIGERANT LINES, ETC. THAT CROSS MEZZANINE FLOOR WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ANGLE COVER SAFETY YELLOW COLOR.
- CONTRACTOR SHALL ANCHOR OUTDOOR UNITS TO CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, WIND LOAD REQUIREMENTS, AND AS PER PLANS/SPECIFICATIONS. COORDINATE CONCRETE PAD SIZE, UNIT CLEARANCES, ETC.
- THE CONTRACTOR SHALL INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING.

WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.

- MANUFACTURER/CONTRACTOR SHALL FURNISH AND INSTALL TORNADO/HURRICANE WIND CLIPS FOR CURB MOUNTED EQUIPMENT.
- ALL INDOOR AND OUTDOOR UNITS SHALL BE LOCATED SO THAT MAINTENANCE CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS PER PLANS/SPECIFICATIONS ARE MAINTAINED. COORDINATE MAINTENANCE CLEARANCES WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.

| | | | Ç | SHEL | TER | LOU | VER | SCHI | EDUL | .E | | | | | |
|-------------|---------------------------------|-----------|---------------|----------------|------------------|-------------------|---------------------------------|-----------------------------|-----------|--|-----------|-----------|--|--|--|
| | MINIMUM MAXIMUM MAXIMUM MAXIMUM | | | | | | | | | | | | | | |
| MARK NO. | BASE BID/ ALTERNATE | MOUNTING | SIZE W X H | BLADE ANGLE | BLADE CENTERS | MIN. FREE AREA | MINIMUM FREE AREA SQ. FT. | PRESSURE DROP IN W.G. | CFM | MANUFACTURER (OR APPROVED EQUAL) | MODEL NO. | NOTES | | | |
| L S1 | BASE BID | SIDE WALL | 42"X42" | _ | _ | 26% | 3.20 | 0.1 | 150/2,000 | RUSKIN | XP500WD | SEE BELOW | | | |
| L S2 | BASE BID | SIDE WALL | 48"X16" | - | - | 38% | 2.00 | 0.1 | 1,000 | RUSKIN | XP500 | SEE BELOW | | | |
| L S3 | BASE BID | SIDE WALL | 48"X16" | - | - | 38% | 2.00 | 0.1 | 1,000 | RUSKIN | XP500 | SEE BELOW | | | |
| L S4 | BASE BID | SIDE WALL | 18"X12" | _ | _ | 31% | 0.46 | 0.1 | 75 | RUSKIN | XP500 | SEE BELOW | | | |

- (1) LOUVER TO INCLUDE FLANGE FRAME AND KYNAR FINISH. VERIFY FINAL COLOR AND FINISH WITH ARCHITECT. VERIFY QUANTITY WITH PLANS.
- 2 LOUVER SHALL COMPLY WITH ICC 500, FEMA 320, AND FEMA 361 STANDARDS. ENTIRE INSTALLATION SHALL COMPLY WITH ICC 500 REQUIREMENTS. COORDINATE FACTORY RECOMMENDED ANCHORING AND INSTALLATION PROCEDURES WITH LOUVER MANUFACTURER.
- (3) ALL XP500WD LOUVERS SHALL BE 300 PSF.
- (4) LOUVER L-S1 SHALL INCLUDE DOUBLE DRAINABLE SIGHTPROOF BLADES. NORMAL USE IS 150 CFM INTAKE FOR HP-1. EMERGENCY USE IS 2,000 CFM INTAKE FOR HP-1..

APPROVED EQUALS: GREENHECK AND UNITED ENERTECH.

| | | | Е | XHA | UST | FAN | SCHE | DULE | | | |
|-------------|------------------------|------------------------------------|-----|-------------------|------------|--------|----------|--|-----------|------------------|-------|
| MARK NO. | BASE BID/ ALTERNATE | MOUNTING | CFM | STATIC IN W.G. | SONES | WATTS | VOLTAGE | MANUFACTURER (OR APPROVED EQUAL) | MODEL NO. | WEIGHT (LBS.) | NOTES |
| EF 1 | BASE BID | BASE BID CEILING 75 0.25 1.6 55 | | | | | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 2 | BASE BID | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 3 | BASE BID | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 4 | BASE BID | CEILING | 70 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 5 | BASE BID | CEILING | 170 | 0.25 | 1.2 | 80 | 115-1-60 | LOREN COOK | GC-520 | 32 | 1 2 3 |
| EF 6 | BASE BID | CEILING | 225 | 0.25 | 1.7 | 145 | 115-1-60 | LOREN COOK | GC-620 | 35 | 1 2 3 |
| EF 7 | BASE BID | E BID CEILING 100 0.25 1.6 80 115- | | 115-1-60 | LOREN COOK | GC-164 | 15 | 1 2 3 | | | |
| EF 8 | BASE BID | CEILING 225 0.25 | | 0.25 | 1.7 | 145 | 115-1-60 | LOREN COOK | GC-620 | 35 | 1 2 3 |
| EF 9 | BASE BID | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 10 | BASE BID | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 11 | BASE BID | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 3 4 |
| EF 12 | ALTERNATE | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |
| EF 13 | ALTERNATE | CEILING | 75 | 0.25 | 1.6 | 55 | 115-1-60 | LOREN COOK | GC-142 | 15 | 1 2 3 |

- (1) FAN TO INCLUDE FACTORY MOUNTED/PRE-WIRED FAN SPEED CONTROL.
- (2) FAN TO BE SWITCHED WITH LIGHTING.
- (3) FAN TO INCLUDE CEILING RADIATION DAMPER.
- (4) FAN TO BE SWITCHED WITH WALL SWITCH.

APPROVED EQUALS: BREIDERT, GREENHECK, AND PENN.

| Н | IVAC DRAWING INDEX |
|-----------|-----------------------------------|
| SHEET NO. | SHEET TITLE |
| M1.1 | HVAC LEGEND, NOTES, AND SCHEDULES |
| M1.2 | HVAC SCHEDULES AND DETAILS |
| M1.3 | HVAC SCHEDULES AND DETAILS |
| M2.1 | HVAC DETAILS |
| M2.2 | HVAC DETAILS AND IAQ CALCULATIONS |
| M2.3 | HVAC COMPLIANCE CALCULATIONS |
| M2.4 | HVAC REFRIGERANT CALCULATIONS |
| M2.5 | HVAC REFRIGERANT CALCULATIONS |
| M2.6 | HVAC REFRIGERANT CALCULATIONS |
| МЗ.1 | HVAC PLANS |
| МЗ.2 | ATTIC HVAC PLANS |
| M4.1 | STORM SHELTER HVAC PLANS |

CODES AND STANDARDS

- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2020 ICC / NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ASHRAE 90.1-2013 ENERGY STANDARD

HVAC LEGEND, NOTES, AND SCHEDULES

WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

WHORTON ENGINEERING PROJECT NO. 23222

Kandree Whoston

DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205



OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER TTL 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897

03.31.25 BID

Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

Attn: Randy Whorton

ELECTRICAL ENGINEER

JOB NO. 24001

DESCRIPTION: HVAC SCHEDULES AND DETAILS

| | INTAKE VENT SCHEDULE | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MARK NO. | | | | | | | | | | | | | | |
| | BASE BID 1,105 (BB) 1,190 (ALT) 2.292 0.05 SPUN ALUMINUM LOREN COOK PR-20 SEE BELO | | | | | | | | | | | | | |
| $\left(\begin{array}{c} V \\ 2 \end{array}\right)$ | $\frac{ V }{2}$ ALTERNATE 460 0.852 0.05 SPUN ALUMINUM LOREN COOK PR-12 SEE BELOW | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

- (2) INTAKE VENT TO INCLUDE FACTORY MOTORIZED DAMPER, MANUAL DAMPER, AND BIRDSCREEN.

APPROVED EQUALS: CARNES, GREENHECK, AND PENN

| RELIEF VENT SCHEDULE | | | | | | | | | | | | | |
|----------------------|------------------------|-------|---------------------|------|---------------|--|-----------|-----------|--|--|--|--|--|
| MARK NO. | BASE BID/ ALTERNATE | CFM | THROAT AREA S.F. | P.D. | MATERIAL | MANUFACTURER (OR APPROVED EQUAL) | MODEL NO. | NOTES | | | | | |
| (RV) | BASE BID | 1,240 | 2.292 | 0.05 | SPUN ALUMINUM | LOREN COOK | PR-24 | SEE BELOW | | | | | |
| RV 2 | ALTERNATE | 150 | 0.394 | 0.05 | SPUN ALUMINUM | LOREN COOK | PR-8 | SEE BELOW | | | | | |

- 1) RELIEF VENT TO INCLUDE FACTORY ROOF CURB. COORDINATE ALL ROOF CURBS WITH ROOFING CONTRACTOR. PRIME AND PAINT ROOF CURB AND RELIEF VENT TO MATCH ROOF. VERIFY FINAL COLOR WITH ARCHITECT.
- (2) RELIEF VENT TO INCLUDE FACTORY BACKDRAFT DAMPER AND BIRDSCREEN.

APPROVED EQUALS: CARNES, GREENHECK, AND PENN

| | DIDDOODES | | OUTSIDE AIR INTAKE (O.A.I.), MINIMUM 18 GAUGE ALL ALUMINUM |
|---|---|---------------------------|---|
| | BIRDSCREEN | | CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR |
| | 000000 | | PRE-FAB CURB BY MECHANICAL |
| | ROOF OPENING AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS | | CONTRACTOR, 16 GAUGE ALUMINUM WELDED BUILT—IN CANT., 2" INSULATION |
| c | MOTORIZED DAMPER SWITCHED | MANUAL DAMPE | |
| | WITH LIGHTING | MANUAL DAMPE | |
| | TO RETURN DUCT (SEE PLAN) | TO RETURN DUCT (SEE PLAN) | |
| | | | |
| TV | PICAL INTA | KE VENIT | DETAIL |
| 11 | | NOT TO SCALE | DETAIL |
| | | 10 00/12 | |
| | | | |
| | | | |
| NOTE: SEE AIR DEVICE EXHAUST AIR RELIEF VE SEE PLAN FOR LOCATIO | NT SIZE, CFM, ETC. | | RBS WITH THE ROOFING CONTRACTORING AND RELIEF VENT TO MATCH RO |
| EXHAUST AIR RELIEF VE | NT SIZE, CFM, ETC. | | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM |
| EXHAUST AIR RELIEF VE | NT SIZE, CFM, ETC. | | RB AND RELIEF VENT TO MATCH RO |
| EXHAUST AIR RELIEF VE | NT SIZE, CFM, ETC. N AND DESIGNATION. | PRIME AND PAINT ROOF CU | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL |
| EXHAUST AIR RELIEF VE | BIRDSCREEN | | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR PRE—FAB CURB BY MECHANICAL CONTRACTOR, 16 GAUGE ALUMINUM WELDED BUILT—IN CANT |
| EXHAUST AIR RELIEF VE | NT SIZE, CFM, ETC. N AND DESIGNATION. | PRIME AND PAINT ROOF CU | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR PRE—FAB CURB BY MECHANICAL CONTRACTOR, 16 GAUGE ALUMINUM |
| EXHAUST AIR RELIEF VE | ROOF OPENING AS REQUIRED BY MANUFACTURER'S | PRIME AND PAINT ROOF CL | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR PRE—FAB CURB BY MECHANICAL CONTRACTOR, 16 GAUGE ALUMINUM WELDED BUILT—IN CANT |
| EXHAUST AIR RELIEF VE | ROOF OPENING AS REQUIRED BY MANUFACTURER'S | PRIME AND PAINT ROOF CU | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR PRE—FAB CURB BY MECHANICAL CONTRACTOR, 16 GAUGE ALUMINUM WELDED BUILT—IN CANT |
| EXHAUST AIR RELIEF VE | BIRDSCREEN ROOF OPENING AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS FACTORY | PRIME AND PAINT ROOF CL | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR PRE—FAB CURB BY MECHANICAL CONTRACTOR, 16 GAUGE ALUMINUM WELDED BUILT—IN CANT |
| EXHAUST AIR RELIEF VE | BIRDSCREEN ROOF OPENING AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS FACTORY | PRIME AND PAINT ROOF CL | RELIEF VENT TO MATCH RO RELIEF VENT, MINIMUM 18 GAUGE ALL ALUMINUM CONSTRUCTION, STANDARD MANUFACTURER ITEM EQUAL TO LOREN COOK PR PRE—FAB CURB BY MECHANICAL CONTRACTOR, 16 GAUGE ALUMINUM WELDED BUILT—IN CANT |

| | | | | | | ŀ | HEA ⁻ | T PU | MP | EQUII | PMEN | T SC | CHEDUL | _E | | | | |
|-------------|------------------------|-----------------------|-----------------------|------------------------------|----------------------|----------------------|------------------|-------------------------|--------------|-------------------------------|--------------------------------|--------------|--|-----------------------------|------------------------------|-------------------|-------------------|-----------|
| | | | | | | C | OOLING CAPAC | ITY | | Н | EATING CAPACITY | | | MODEL NO. DATA | - | APPRO | OXIMATE | |
| MARK NO. | BASE BID/ ALTERNATE | NOMINAL FAN CFM | MINIMUM OSA CFM | EXT. STATIC (IN. W.G.) | TOTAL CAP. MBH | SENS. CAP. MBH | COND. E.A.T. | EVAP. E.W.B. TEMP | MIN. SEER | LOW TEMP 17* E.A.T. MBH | HIGH TEMP 47° E.A.T. MBH | MIN. HSPF | MANUFACTURER (OR APPROVED EQUAL) | INDOOR UNIT MODEL NO. | OUTDOOR UNIT MODEL NO. | GAS (IN. O.D.) | LIQUID (IN. O.D.) | NOTES |
| HP 1 | BASE BID | 1,200 | 115 | 0.5" | 35.7 | 26.8 | 95 | 80/67 | 14.5 | 19.7 | 31.2 | 8.2 | TRANE | GAM5B0B36 | 5TWA4036 | 3/4 | 5/16 | SEE BELOW |
| HP 2 | BASE BID | 1,400 | 105 | 0.5" | 43.2 | 32.9 | 95 | 80/67 | 14.5 | 24.2 | 37.0 | 8.2 | TRANE | GAM5B0C42 | 5TWA4042 | 7/8 | 5/16 | SEE BELOW |
| HP 3 | BASE BID | 800 | 80 | 0.7" | 23.9 | 17.9 | 95 | 80/67 | 14.5 | 14.1 | 21.6 | 8.5 | TRANE | GAM5B0A24 | 5TWR4024 | 3/4 | 5/16 | SEE BELOW |
| HP 4 | BASE BID | 800 | 45 | 0.7" | 23.9 | 17.9 | 95 | 80/67 | 14.5 | 14.1 | 21.6 | 8.5 | TRANE | GAM5B0A24 | 5TWR4024 | 3/4 | 5/16 | SEE BELOW |
| HP 5 | BASE BID | 800 | 60 | 0.7" | 23.9 | 17.9 | 95 | 80/67 | 14.5 | 14.1 | 21.6 | 8.5 | TRANE | GAM5B0A24 | 5TWR4024 | 3/4 | 5/16 | SEE BELOW |
| HP 6 | BASE BID | 1,000 | 80 | 0.5" | 29.1 | 22.3 | 95 | 80/67 | 14.5 | 17.5 | 26.6 | 8.5 | TRANE | GAM5B0B30 | 5TWR4030 | 3/4 | 5/16 | SEE BELOW |
| HP 7 | BASE BID | 800 | 70 | 0.7" | 23.9 | 17.9 | 95 | 80/67 | 14.5 | 14.1 | 21.6 | 8.5 | TRANE | GAM5B0A24 | 5TWR4024 | 3/4 | 5/16 | SEE BELOW |
| HP 8 | BASE BID | 800 | 65 | 0.7" | 23.9 | 17.9 | 95 | 80/67 | 14.5 | 14.1 | 21.6 | 8.5 | TRANE | GAM5B0A24 | 5TWR4024 | 3/4 | 5/16 | SEE BELOW |
| HP 9 | BASE BID | 1,200 | 90 | 0.5" | 35.7 | 26.8 | 95 | 80/67 | 14.5 | 19.7 | 31.2 | 8.2 | TRANE | GAM5B0B36 | 5TWA4036 | 3/4 | 5/16 | SEE BELOW |
| HP 10 | BASE BID | 1,000 | 135 | 0.5" | 29.1 | 22.3 | 95 | 80/67 | 14.5 | 17.5 | 26.6 | 8.5 | TRANE | GAM5B0B30 | 5TWR4030 | 3/4 | 5/16 | SEE BELOW |
| HP 11 | BASE BID | 1,400 | 80 | 0.5" | 43.2 | 32.9 | 95 | 80/67 | 14.5 | 24.2 | 37.0 | 8.2 | TRANE | GAM5B0C42 | 5TWA4042 | 7/8 | 5/16 | SEE BELOW |
| HP 12 | BASE BID | 2,000 | 180 | 0.6" | 57.9 | 45.1 | 95 | 80/67 | 14.5 | 34.6 | 52.5 | 8.5 | TRANE | GAM5B0C60 | 5TWA4060 | 7/8 | 5/16 | SEE BELOW |
| HP 13 | BASE BID | 2,000 | 150 | 0.6" | 57.9 | 45.1 | 95 | 80/67 | 14.5 | 34.6 | 52.5 | 8.5 | TRANE | GAM5B0C60 | 5TWA4060 | 7/8 | 5/16 | SEE BELOW |
| HP 14 | ALTERNATE | 800 | 60 | 0.7" | 23.9 | 17.9 | 95 | 80/67 | 14.5 | 14.1 | 21.6 | 8.5 | TRANE | GAM5B0A24 | 5TWR4024 | 3/4 | 5/16 | SEE BELOW |
| HP 15 | ALTERNATE | 1,600 | 200 | 0.7" | 48.2 | 35.9 | 95 | 80/67 | 14.5 | 27.0 | 41.5 | 8.2 | TRANE | GAM5B0C48 | 5TWA4048 | 7/8 | 5/16 | SEE BELOW |
| HP 16 | ALTERNATE | 1,600 | 200 | 0.7" | 48.2 | 35.9 | 95 | 80/67 | 14.5 | 27.0 | 41.5 | 8.2 | TRANE | GAM5B0C48 | 5TWA4048 | 7/8 | 5/16 | SEE BELOW |
| HP 17 | ALTERNATE | 1,200 | 85 | 0.5" | 35.7 | 26.8 | 95 | 80/67 | 14.5 | 19.7 | 31.2 | 8.2 | TRANE | GAM5B0B36 | 5TWA4036 | 3/4 | 5/16 | SEE BELOW |
| TOTAL | | | 1,800 | | 607.3 | | | • | | - | - | | | | | | | |

- (1) UNIT TO INCLUDE A 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER ELECTRONIC SETBACK THERMOSTAT/HUMIDISTAT WITH SUB-BASE AND LOCKING COVER.
- 2) UNIT TO INCLUDE OUTDOOR THERMOSTAT.
- (3) UNIT TO INCLUDE CONDENSER HAIL GUARD.
- 4 VERTICAL UNIT TO BE MOUNTED ON A STEEL ANGLE PLENUM. PRIME AND PAINT STEEL TO MATCH UNIT. VERIFY PLENUM HEIGHT WITH EQUIPMENT SUPPLIER.
- 5 REFRIGERANT R-454B.
- 6 UNIT TO INCLUDE LOW AMBIENT CONTROLS TO 0 DEG F.
- 7) UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT (NEEDLEPOINT) MOUNTED IN UNIT RETURN DUCT PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED HEAT PUMP.
- 8) ALL INDOOR UNITS TO INCLUDE 2" MERV 13 PLEATED FILTER AND FILTER RACK ON UNIT RETURN.
- 9 UNIT HP-1, HP-3, HP-4, HP-5, HP-6, HP-7, HP-8, HP-9, HP-10, HP-14, AND HP-17 TO WIRE ELECTRIC STRIP HEAT FOR DEHUMIDIFICATION.
- 10 UNIT HP-12 AND HP-13 TO INCLUDE FACTORY RETURN AIR SMOKE DETECTOR.
- 11) ALL UNITS TO INCLUDE UV-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV AIRBORNE DUCT SYSTEM MODEL TUV-C-ADS (OR APPROVED EQUAL).
- 12) VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER.
- (13) ALL UNITS SHALL BE ASHRAE 90.1-2013 COMPLIANT.
- (14) UNIT HP-13: INDOOR UNIT FAN AND THERMOSTAT SHALL BE ON EMERGENCY POWER AND SHALL OPERATE UNDER EMERGENCY CONDITIONS. REFERENCE PLANS FOR ADDITIONAL INFORMATION.

APPROVED EQUALS: AMERICAN STANDARD, BRYANT, CARRIER, LENNOX, AND RHEEM

| | | | | HEAT | PUMP | EQUIP | MENT | ELEC | ΓRICA | L DATA | 4 | | | |
|-------------|------------------------|--------------|--------------------------------|---------------------------------|----------------------------------|--------------------------------------|------------------|--------------|--------------------|--------------------------------|----------------------------------|--------------------------------------|------------------|-------------------------------|
| | | | | OUTDOOR | UNIT | | | | | INDOC | R UNIT | | | |
| MARK NO. | BASE BID/ ALTERNATE | VOLTAGE | COMPRESSOR R.L.A. (EACH) | OUTDOOR FAN F.L.A. (EACH) | MINIMUM CIRCUIT AMPS (MCA) | MAXIMUM OVERCURRENT PROTECTION | WEIGHT (LBS.) | VOLTAGE | INDOOR FAN H.P. | ELECTRIC STRIP HEAT K.W. | MINIMUM CIRCUIT AMPS (MCA) | MAXIMUM OVERCURRENT PROTECTION | WEIGHT (LBS.) | SINGLE POINT CONNECTION |
| HP 1 | BASE BID | 208/230-3-60 | 12.8 | 0.64 | 16.6 | 25 | 260 | 208/230-3-60 | 1/2 | 7.2/9.6 | 30/33 | 30/35 | 150 | YES |
| HP 2 | BASE BID | 208/230-3-60 | 12.2 | 2.8 | 18.1 | 30 | 305 | 208/230-3-60 | 1/2 | 7.2/9.6 | 30/33 | 30/35 | 165 | YES |
| HP 3 | BASE BID | 208/230-1-60 | 9.1 | 0.64 | 13 | 20 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 130 | YES |
| HP 4 | BASE BID | 208/230-1-60 | 9.1 | 0.64 | 13 | 20 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 130 | YES |
| HP 5 | BASE BID | 208/230-1-60 | 9.1 | 0.64 | 13 | 20 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 130 | YES |
| HP 6 | BASE BID | 208/230-1-60 | 10.4 | 0.64 | 16 | 25 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 140 | YES |
| HP 7 | BASE BID | 208/230-1-60 | 9.1 | 0.64 | 13 | 20 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 130 | YES |
| HP 8 | BASE BID | 208/230-1-60 | 9.1 | 0.64 | 13 | 20 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 130 | YES |
| HP 9 | BASE BID | 208/230-3-60 | 12.8 | 0.64 | 16.6 | 25 | 260 | 208/230-3-60 | 1/2 | 7.2/9.6 | 30/33 | 30/35 | 150 | YES |
| HP 10 | BASE BID | 208/230-1-60 | 10.4 | 0.64 | 16 | 25 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 140 | YES |
| HP 11 | BASE BID | 208/230-3-60 | 12.2 | 2.8 | 18.1 | 30 | 305 | 208/230-3-60 | 1/2 | 7.2/9.6 | 30/33 | 30/35 | 165 | YES |
| HP 12 | BASE BID | 208/230-3-60 | 16.0 | 2.8 | 22.8 | 35 | 305 | 208/230-3-60 | 1.0 | 10.8/14.4 | 46/52 | 50/60 | 180 | YES |
| HP 13 | BASE BID | 208/230-3-60 | 16.0 | 2.8 | 22.8 | 35 | 305 | 208/230-3-60 | 1.0 | 10.8/14.4 | - | - | 180 | NO |
| HP 14 | ALTERNATE | 208/230-1-60 | 9.1 | 0.64 | 13 | 20 | 210 | 208/230-3-60 | 1/3 | 7.2/9.6 | 28/32 | 30/35 | 130 | YES |
| HP 15 | ALTERNATE | 208/230-3-60 | 12.2 | 2.8 | 18.1 | 30 | 305 | 208/230-3-60 | 3/4 | 10.8/14.4 | 44/50 | 45/50 | 180 | YES |
| HP 16 | ALTERNATE | 208/230-3-60 | 12.2 | 2.8 | 18.1 | 30 | 305 | 208/230-3-60 | 3/4 | 10.8/14.4 | 44/50 | 45/50 | 180 | YES |
| HP 17 | ALTERNATE | 208/230-3-60 | 12.8 | 0.64 | 16.6 | 25 | 260 | 208/230-3-60 | 1/2 | 7.2/9.6 | 30/33 | 30/35 | 150 | YES |

HVAC SCHEDULES AND DETAILS

DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205 WHORTON ENGINEERING PROJECT NO. 23222

Attn: Tony Dodd

DESCRIPTION:
HVAC SCHEDULES
AND DETAILS

N/1 4

No.14192
PROFESSIONAL

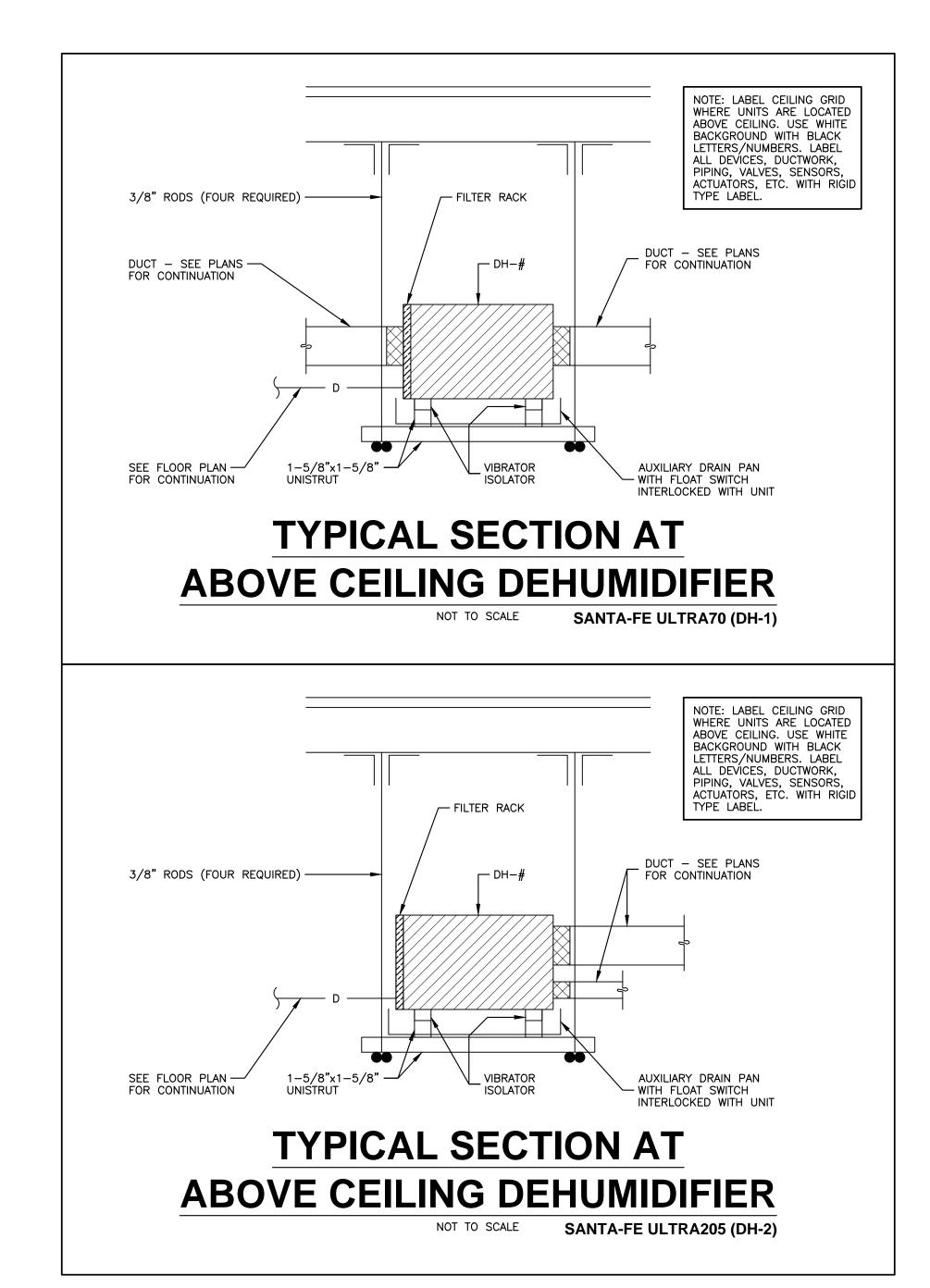
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| | | | | DI | JCTI | LES | S AIF | R COND | ITIONII | NG EQU | JIPM | ENT | SCHEE | DULE (V | VALI | _ MC |)UN | Γ) | | | |
|-------------|------------------------|-----------------------|----------------------|----------------------|-----------------|-------------------------|---------------|--|--------------|----------------|-------------------------------|--------------------------|--------------|------------|-------------------------------|------------|-------------|--------------------------|--------------------|----------------------|-----------|
| | | NOMINAL | | CC | OOLING CAPAC | ITY I | Ι | MANUEACTURED | | INDOOR UNIT DA | 1 | Ι | | OUTDO | OOR UNIT DATA | \ | I | Ι | APPRO REFRIG. P | XIMATE IPING SIZE | |
| MARK NO. | BASE BID/ ALTERNATE | NOMINAL FAN CFM | TOTAL CAP. MBH | SENS. CAP. MBH | COND. E.A.T. | EVAP. E.W.B. TEMP | MIN. SEER2 | MANUFACTURER (OR APPROVED EQUAL) | VOLTAGE | MODEL NO. | FAN MOTOR OUTPUT (W) | UNIT WEIGHT (LBS.) | VOLTAGE | MODEL NO. | FAN MOTOR OUTPUT (W) | MCA (A) | MOCP (A) | UNIT WEIGHT (LBS.) | GAS (IN. O.D.) | LIQUID (IN. O.D.) | NOTES |
| DAC 1 | BASE BID | 375 | 12.0 | 8.76 | 95 | 80/67 | 21.1 | MITSUBISHI | 208/230-1-60 | PKA-AL12NL | 30 | 28 | 208/230-1-60 | PUY-AK12NL | 51 | 16 | 27 | 99 | 1/2 | 1/4 | SEE BELOW |

- 1) UNIT TO INCLUDE A WALL MOUNTED 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTAT WITH SUB-BASE AND LOCKING COVER. THERMOSTAT SHALL BE FACTORY MA REMOTE CONTROLLER MODEL PAR-42MAAUB.
- 2) INDOOR UNIT TO BE WALL MOUNTED WITH FACTORY CONDENSATE PUMP AND SHALL INCLUDE LINE SET/CONDENSATE PUMP ENCLOSURE KIT (CONDENSATE PUMP APPROVED EQUALS: LITTLE GIANT EC-1K AND ASPEN/AIRTEC MINI AND MAXI LIME).
- (3) INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNIT THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.
- (4) UNIT TO INCLUDE LOW AMBIENT CONTROLS TO 0°F.
- 5 REFRIGERANT R-454B.
- (6) VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER.
- 7 UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT MOUNTED INSIDE WALL MOUNT UNIT PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED UNIT.
- (8) UNIT TO INCLUDE CONDENSER HAIL GUARD.
- (9) UNIT SHALL BE ASHRAE 90.1-2013 COMPLIANT.

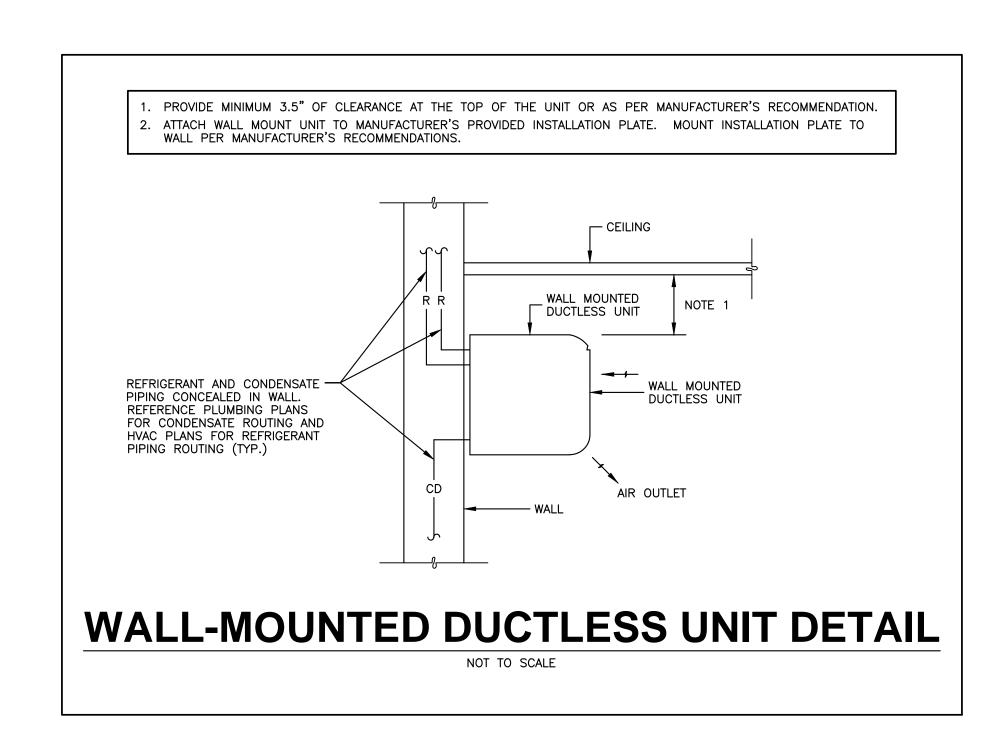
- ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. COORDINATE WITH EQUIPMENT MANUFACTURER.
- CONTRACTOR'S VENDOR SHALL PROVIDE REFRIGERANT LINE FINAL SIZES, LENGTHS, ETC. PER MANUFACTURER'S RECOMMENDATION. SUBMITTAL DRAWINGS SHALL INCLUDE CONTROLS, LINE SIZES, ETC. CONTRACTOR SHALL COORDINATE SIZES SHOWN ON PLANS WITH ACTUAL EQUIPMENT QUOTED PRIOR TO BIDDING.
- (12) FURNISH AND INSTALL FACTORY PRE-INSULATED REFRIGERANT LINE SETS.
- (13) EACH LINE SET SHALL INCLUDE FACTORY BALL VALVES FOR UNIT ISOLATION.
- (14) REFRIGERANT PIPING SHALL BE LABELED TO MATCH ASSOCIATED INDOOR AND OUTDOOR UNIT.
- ALL EXPOSED INTERIOR REFRIGERANT PIPING SHALL BE ROUTED IN SCHEDULE 40 PVC. PRIME AND PAINT TO MATCH ADJACENT SURFACES. VERIFY PAINT COLOR WITH ARCHITECT.
- (16) USE INSULATED REFRIGERANT PIPING CLAMPS WHERE REFRIGERANT PIPING IS INSULATED.
- (17) UNIT TO INCLUDE FACTORY START-UP.

| APPROVED | EQUALS: | FUJITSU, | CARRIER | TOSHIBA, | AND | TRAN |
|----------|---------|----------|---------|----------|-----|------|
| | | | | | | |



| | | | DEH | HUMIDI | FIER E | QUIP | MENT | SCHED | ULE | | | | | | |
|-------------|--|-----|-------------|----------------|--------------------|-----------------|------|---|-------------------|------------------|-----------|--|--|--|--|
| | WATER REMOVAL ELECTRICAL MODEL NO. DATA NOMINAL OPERATING | | | | | | | | | | | | | | |
| MARK NO. | BASE BID/ NOMINA FAN CFM | | REFRIGERANT | 80°F 60% RH | OPERATING RANGE | POWER SUPPLY | AMPS | MANUFACTURER (OR APPROVED) EQUAL) | UNIT MODEL NO. | WEIGHT (LBS.) | NOTES | | | | |
| DH 1 | BASE BID | 150 | R-454B | 70 PINTS/DAY | 49*-95*F | 115-1-60 | 4.1 | THERMA-STOR | SANTA-FE ULTRA70 | 55 | SEE BELOW | | | | |
| DH 2 | ALTERNATE | 495 | R-410A | 205 PINTS/DAY | 49°-95°F | 115-1-60 | 13.2 | THERMA-STOR | SANTA-FE ULTRA205 | 140 | SEE BELOW | | | | |

- 1) UNIT TO BE CONTROLLED WITH FACTORY MODEL DEH 3000 WALL MOUNTED HUMIDISTAT.
- 2 UNIT TO INCLUDE FACTORY DUCT COLLARS: DH-1 (8") AND DH-2 (10").
- (3) UNIT TO INCLUDE FACTORY MERV-13 FILTER.
- 4) UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT MOUNTED IN UNIT SUPPLY DUCT AND SHALL BE POWERED FROM ASSOCIATED DEHUMIDIFIER AND SHALL INCLUDE ALL NECESSARY TRANSFORMERS, INTERLOCK, ETC.
- 5 UNIT TO INCLUDE FACTORY CONDENSATE PUMP KIT.



HVAC SCHEDULES AND DETAILS

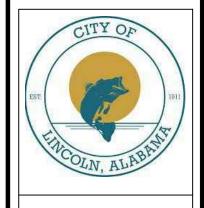
WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P. PHONE: (256) 820-9897

DATE 03-28-2025
25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 23222





NEW CIT POLICE D LINCOLI



City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205

ISSUE: 03.31.25 BID

Pinson, AL 35126 205-942-0696

Attn: Tony Dodd

256-820-9897 Attn: Randy Whorton

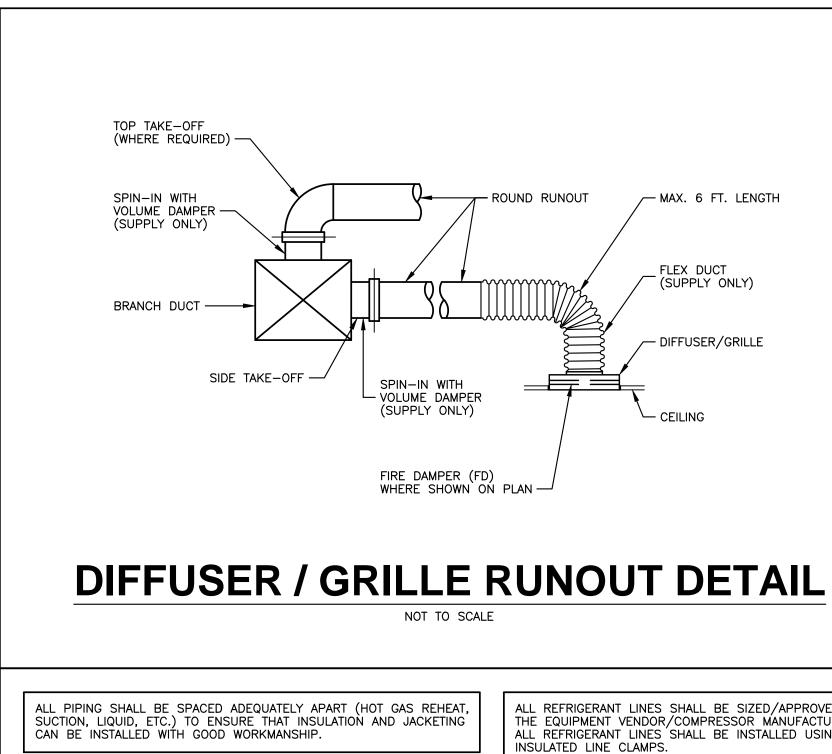
ELECTRICAL ENGINEER

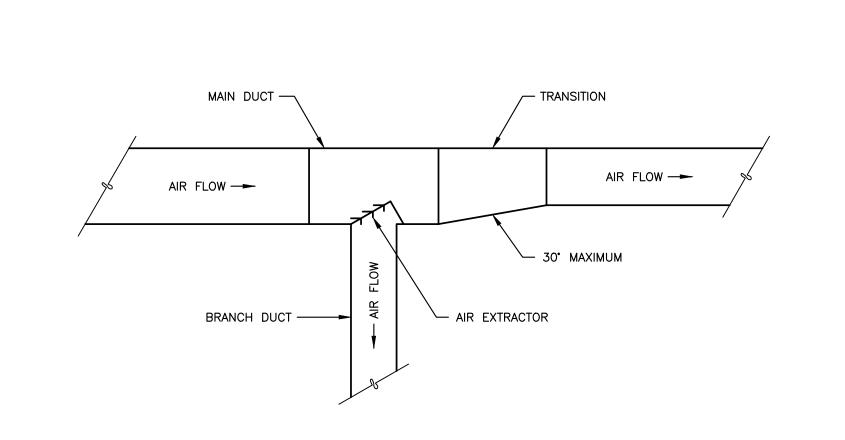
Hays Cheatwood Consulting P.O. Box 250

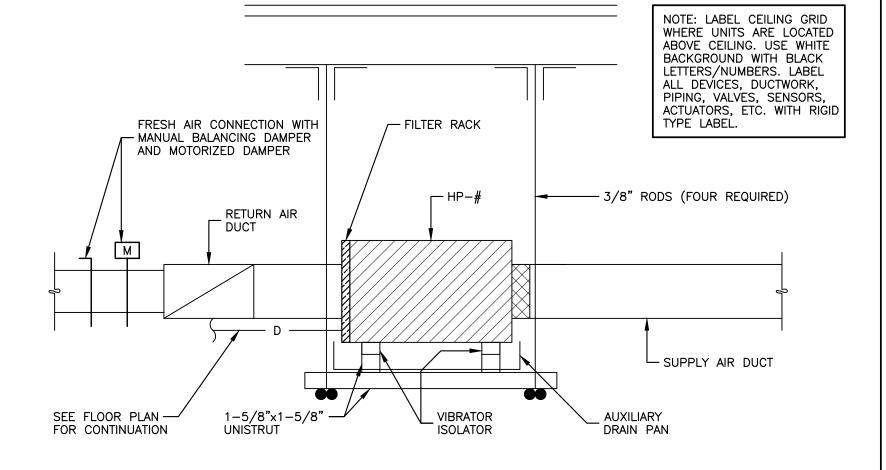
JOB NO. 24001

DESCRIPTION: **HVAC DETAILS**



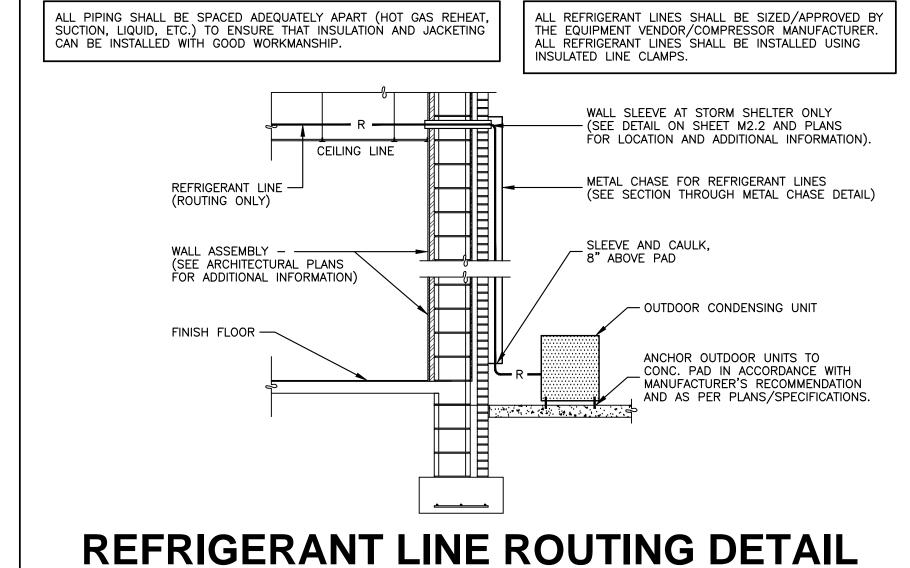


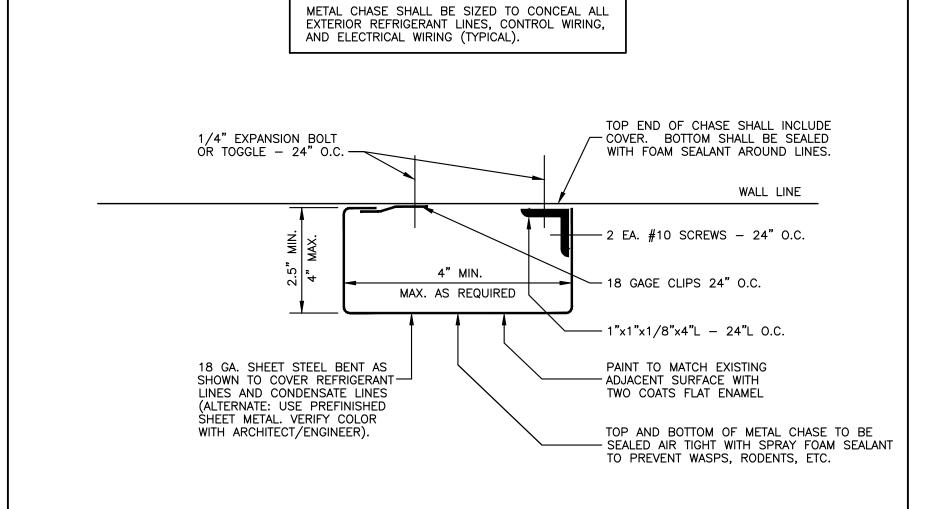




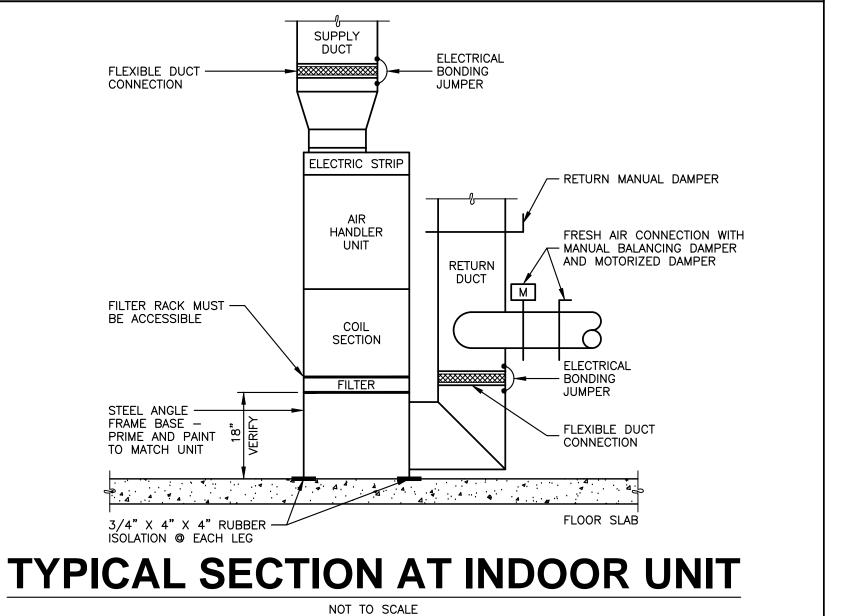
TYPICAL DUCT TAKE OFF DETAIL

TYPICAL SECTION AT HORIZONTAL INDOOR UNIT





SECTION THROUGH METAL CHASE

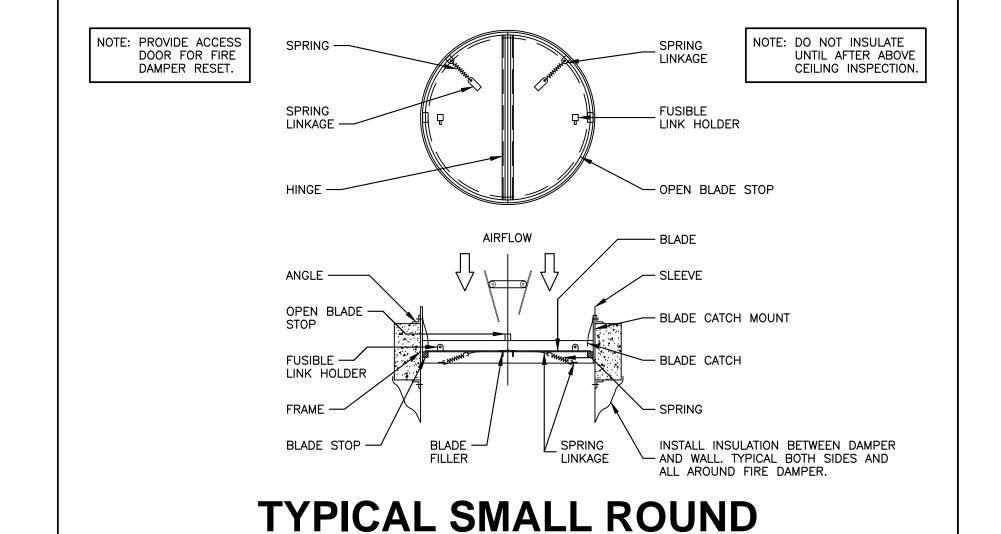


NOTE: ALL LABELS SHALL BE RIGID PLASTIC. LABEL ALL DEVICES, DUCTWORK,

DF-1 Controller

PIPING, VALVES, SENSORS, ACTUATORS, ETC.

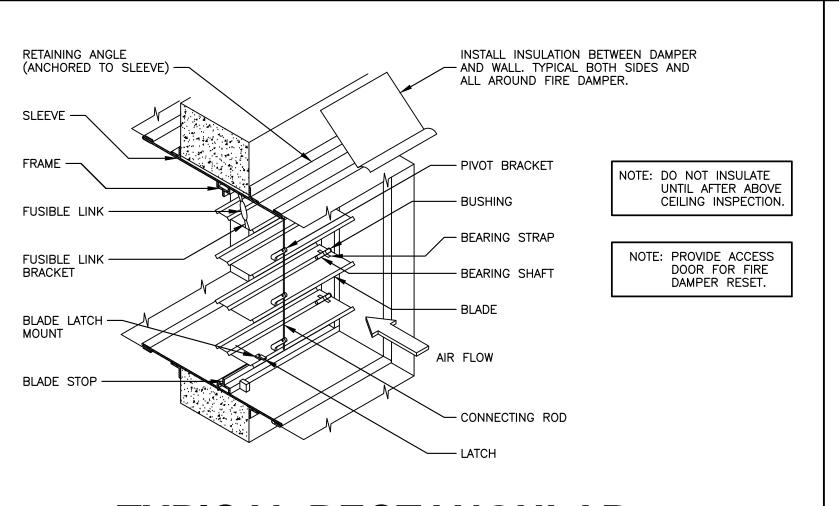
_ 3" WIDE VINYL LABEL



FIRE DAMPER INSTALLATION

NOT TO SCALE

NOT TO SCALE



_ 3/8" TEXT 3/8" TEXT ATTACH LABEL WITH STAINLESS STEEL SCREWS (WHITE ON BLACK) **TYPICAL TYPICAL HVAC** TEMP. SENSOR / **TYPICAL EQUIPMENT THERMOSTAT FAN CONTROLLER** LABEL DETAIL LABEL DETAIL LABEL DETAIL HVAC EQUIPMENT LABELING DETAILS NOT TO SCALE

1 UNIT MARK NO. – LABEL WITH MARK NO.

TO MATCH PLANS

TS - Unit Mark No.

(TS-HP-1, TS-WHP-1)

_ 2" WIDE VINYL LABEL

(1) MARK NO. – LABEL MARK

NO. TO MATCH PLANS
(EF-1. HP-1. WHP-1, ETC.)

- (WHITE ON BLACK)

2 UNIT DESCRIPTION – EXHAUST FAN, SPLIT SYSTEM, HEAT PUMP, WATER SOURCE

Unit Description

HEAT PUMP, ETC.

WIDE MICARTA —

TYPICAL RECTANGULAR FIRE DAMPER INSTALLATION NOT TO SCALE

HVAC DETAILS

WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL DATE 03-28-2025

WHORTON ENGINEERING PROJECT NO. 23222

25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

_3/8" 1/2 BOLT W/ NUT AND LOCKWASHER (TYPICAL)

SEISMIC ANGLE BRACE, SEE SPECIFICATION FOR SIZE

FULL THREADED STUD

SEISMIC ANGLE BRACE, - SEE SPECIFICATION FOR SIZE

FORMED ALUMINUM CHANNEL FRAME (TYP)

SHIMS AND SEPARATION OF DISSIMILAR MATERIALS, AS NEEDED BY OTHERS

SEE I.O.M. DOCUMENTS FOR ANCHOR DETAILS

- ZP BOLT/NUT, FACTORY INSTALLED

- 410SS SCREEN TEK SCREW

- EXTRUDED ALUMINUM BLANKOFF

— 3"x3"x1/4" EXTRUDED ALUMINUM BLADES

ZP BOLT/NUT, FACTORY INSTALLED

AS NEEDED BY OTHERS

- BOTTOM SCREEN MOUNTING PLATE/BLANKOFF

SEE I.O.M. DOCUMENTS FOR ANCHOR DETAILS

SEALANT, BACKER ROD, SHIMS, CONDITION, - AND SEPARATION OF DISSIMILAR MATERIALS

- EXPANDED ALUMINUM SCREEN

FORMED ALUMINUM HEAD BLANKOFF

- WITH LOCKWASHER

SEISMIC BRACE ATTACHMENT FROM JOIST

SEISMIC BRACE ATTACHMENT FROM METAL DECK WITH CONCRETE SLAB

TYP. SEISMIC ANGLE BRACING DETAIL

(STORM SHELTER)

NOT TO SCALE

TYP. LOUVER DETAIL (STORM SHELTER)

SEE STORM SHELTER HVAC PLANS (SHEET M5.1) FOR SLEEVE LOCATIONS AND ADDITIONAL INFORMATION.

PROVIDE AND INSTALL TWO (2) EACH, 2.5" O.D. X 20 BWG STEEL MECHANICAL TUBING SLEEVES THRU WALL. EXTEND SLEEVE 1/2" BEYOND INTERIOR AND EXTERIOR

WALL FACES (TYPICAL). COORDINATE LOCATIONS AND QUANTITIES WITH STORM SHELTER HVAC PLANS ON

TYPICAL WALL SLEEVE DETAIL FOR

REFRIGERANT LINES (STORM SHELTER)

_ BUILT—IN LIFT LUG (TYP @ HEAD/SILL)

3/8" 1/2 U-BOLT — W/ NUTS AND LOCKWASHERS (TYPICAL)

OPEN WEB JOIST,

CONCRETE TOPPING SLAB —

1.) CAST IN PLACE ANCHORS SHALL
BE ACCEPTABLE IF APPROVED BY
CONTRACTING OFFICER.

2.) ANCHOR BOLT INSTALLED AFTER

SEALANT, BACKER ROD, CONDITION, AND -SEPARATION OF DISSIMILAR MATERIALS AS NEEDED BY OTHERS

A HEAD DETAIL RECESSED / FLUSH MOUNT

B SILL DETAIL RECESSED / FLUSH MOUNT

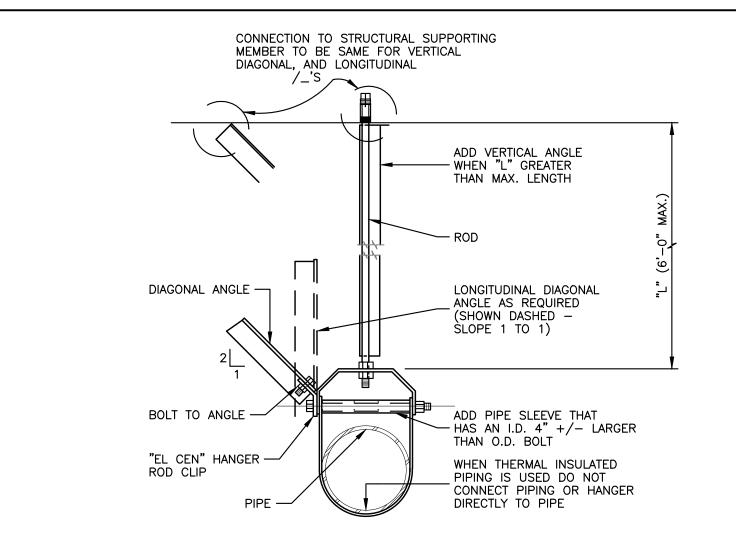
EXTENDED SILL (TYPICAL)

BREAK / BEVERAGE (HP-13)

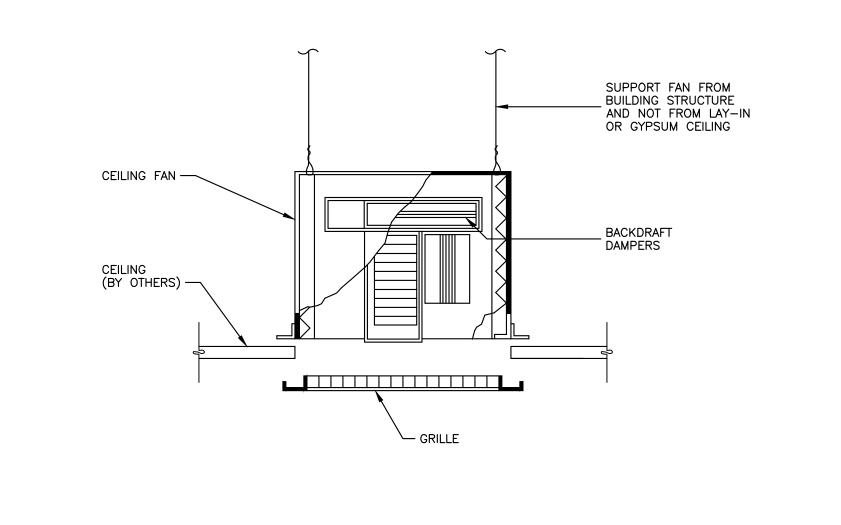
CONCRETE IS POURED. MAX LOAD = 50% OF MFR RECOMMENDED RATING

MIN NET LOAD RATING = 125 LBS EACH.

TYPICAL SEISMIC BRACE DETAIL (STORM SHELTER) NOT TO SCALE

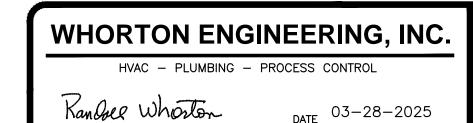


TYPICAL SEISMIC BRACING DETAIL (STORM SHELTER)



TYPICAL CEILING EXHAUST FAN DETAIL

HVAC DETAILS AND IAQ CALCULATIONS



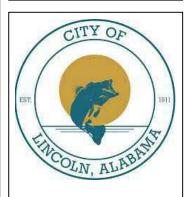
WHORTON ENGINEERING PROJECT NO. 23222

RANDALL WHORTON, P.E.

DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205



ARCHITECTURE 236 MARTIN STREET ANNISTON, AL 36206 256.689.0238 WWW.BILLWARCH.COM



NEW CIPOLINCOL



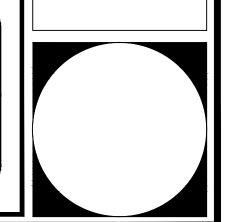
OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Bill Whittaker, P.C 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER

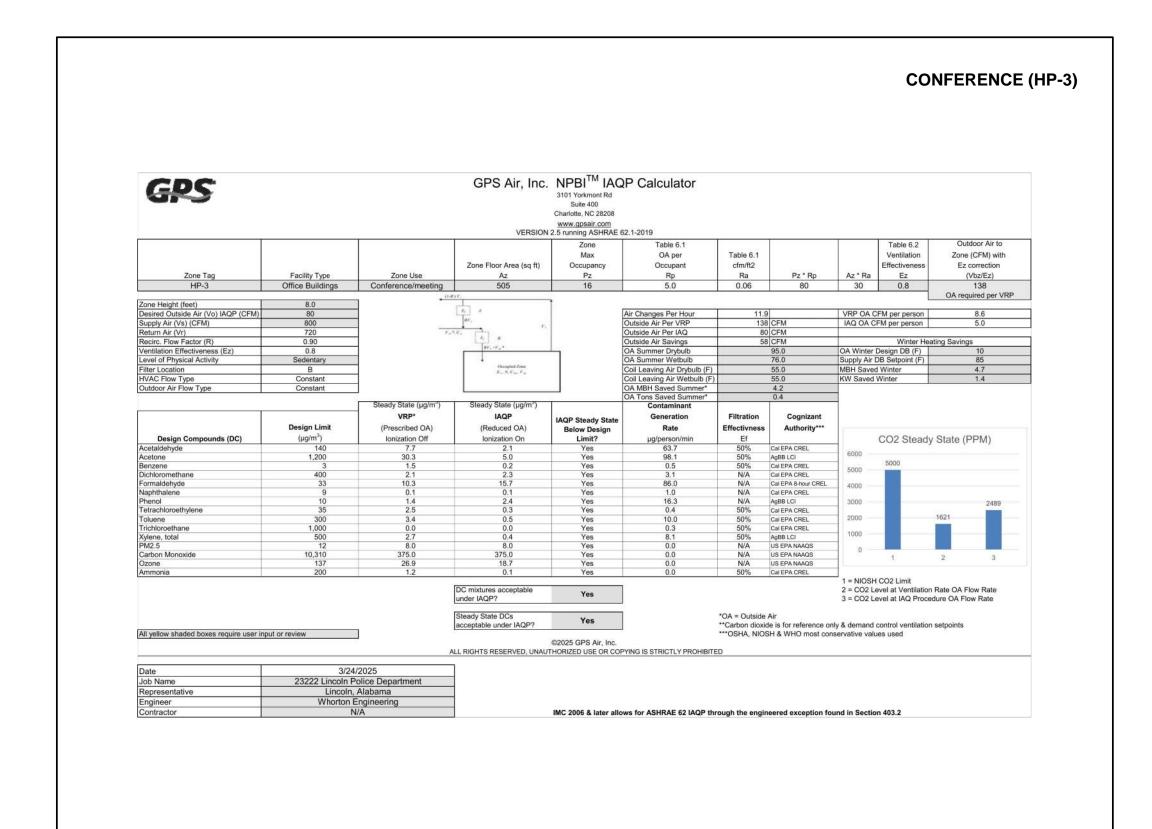
03.31.25 BID

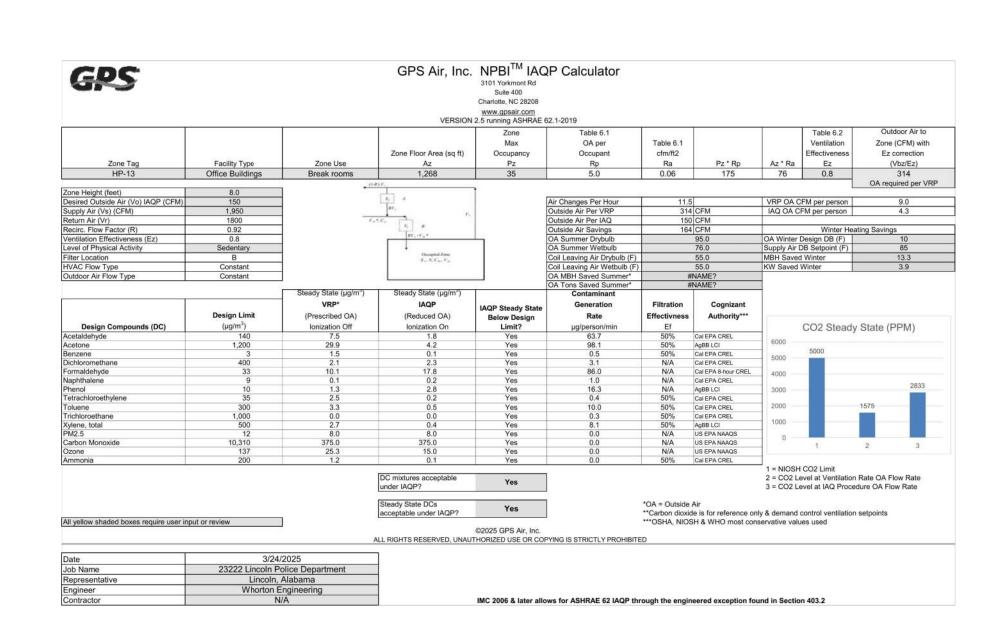
Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

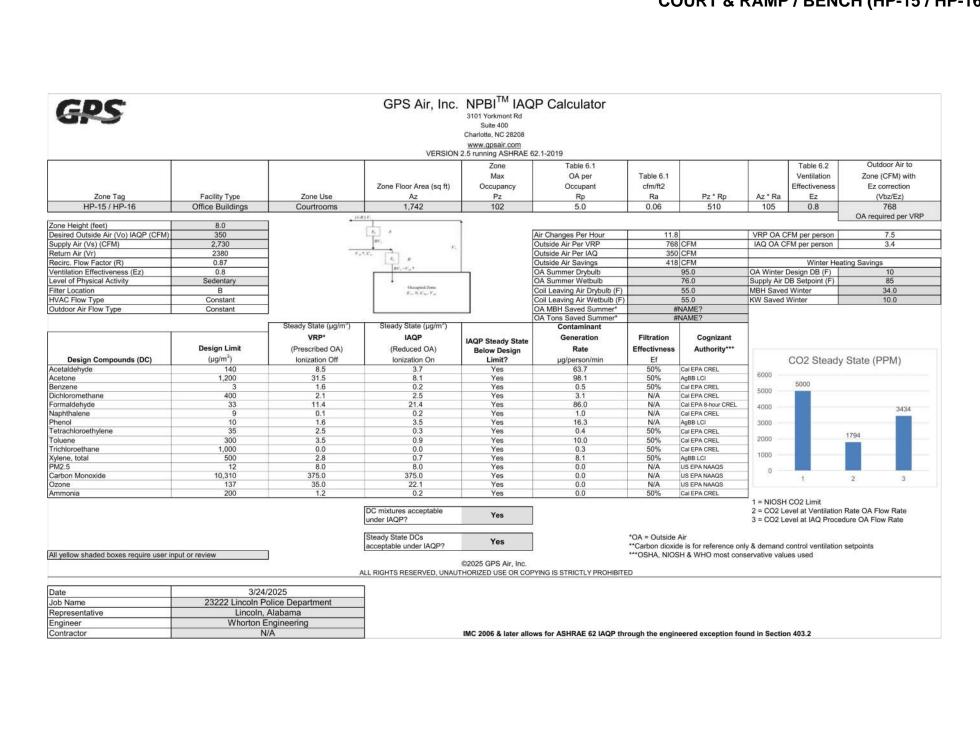
24001

DESCRIPTION: **HVAC DETAILS** AND IAQ CALCULATIONS



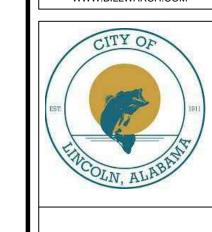








BILL WHITTAKER, P.0
ARCHITECTURE
236 MARTIN STREET
ANNISTON, AL 36206
256.689.0238



W CITY OF LINCOLN

LICE DEPARTMENT



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Lincoln, AL 35096
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ARCHITECT
Bill Whittaker, P.C.
Architecture
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Anniston, AL 36206
Attn: Bill Whittaker

CIVIL ENGINEER
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Hoover, AL 35242
256-441-2232
Attn: Tim Roberts

STRUCTURAL ENGINEER
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Pell City, AL 35125
205-884-5334
Attn: Jeremy Deal

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Attn: Randy Whorton

ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

ISSUE: 03.31.25 BID

JOB NO. 24001

DESCRIPTION:
HVAC COMPLIANCE
CALCULATIONS

∥M2.



| NE | W C | | | | | | | | | LINCOLN, ALABAMA LCULATIONS | |
|---------|-----------|-----------|--------------------------|---|-------|---------|----|----------|--------|--------------------------------|--|
| | AREA | PEOPLE | OUTDOOR AIR CALCULATIONS | | VOZ | VP7 | 7D | | DESIGN | EXHAUST AIR | |
| NIANAT. | I 411L4 1 | I LOFEL F | | 1 | 1 402 | I V □ ∠ | | LVOT | LOCUIN | | |

| | 1054 | 252215 | OUTDOOR A | IR CALCULAT | TONS | | | \n\7 | 7.5 | | | 2501011 | | E | EXHAUST AII | R | | |
|-------------------------|--------------|-----------------|------------------------|------------------|----------------|----------|-------------|------------------|---------------|----|-----|---------------|--------|----------|-------------|-----------------|---------------|--------------|
| ROOM NAME | AREA (SF) | PEOPLE (QTY) | PEOPLE (CFM/PERSON) | AREA (CFM/SF) | TOTAL (VOU) | EZ | VOZ CFM | VPZ CFM | ZP VOZ/VPZ | EV | VOT | DESIGN CFM | CFM/SF | FIXTURES | UNIT | REQUIRED CFM | DESIGN CFM | UNIT |
| MAIN LOBBY | 804 | 8 | 5.0 | 0.06 | 88 | 0.8 | 110 | | | | | 115 | | | | | | HP-1 |
| | | | | | | | | | | | | | | | | | | |
| REPORT | 129 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 170 | 0.09 | | | | | | | | | HP-2 |
| CLERK | 132 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 170 | 0.10 | | | | | | | | | HP-2 |
| RECORDS | 271 | 1 | 5.0 | 0.06 | 21 | 0.8 | 27 | 345 | 0.08 | | | | | | | | | HP-2 |
| CORRIDOR | 181 | 0 | 0.0 | 0.06 | 11 | 0.8 | 14 | 100 | 0.14 | | | | | | | | | HP-2 |
| OFFICE B | 159 | 1 | 5.0 | 0.06 | 15 | 0.8 | 18 | 230 | 0.08 | | | | | | | | | HP-2 |
| WORKROOM FILES | 158 | 1 | 5.0 | 0.06 | 14 | 0.8 | 18 16 | 260 125 | 0.07 | | | | | | | | | HP-2 HP-2 |
| TOTAL (HP-2) | 1,160 | ' | 3.0 | 0.00 | 100 | 0.8 | 10 | 123 | 0.13 | 1 | 100 | 105 | | | | | | HP-2 |
| 101/12 (111 2) | 1,100 | | | | 100 | | | | | ' | 100 | 100 | | | | | | ''' 2 |
| CONFERENCE | 505 | 16 | | | SEE CO | NFERENCE | IAQ BIOCLIM | I MATIC SHEET | <u> </u> | | | 80 | | | | | | HP-3 |
| | | | | | | | | | | | | | | | | | | |
| CHIEF | 321 | 1 | 5.0 | 0.06 | 24 | 0.8 | 30 | 450 | 0.07 | | | | | | | | | HP-4 |
| DEPUTY CHIEF | 200 | 1 | 5.0 | 0.06 | 17 | 0.8 | 21 | 300 | 0.07 | | | | | | | | | HP-4 |
| TOTAL (HP-4) | 521 | | | | 41 | | | | | 1 | 41 | 45 | | | | | | HP-4 |
| | | | | | | | | | | | | | | | | | | |
| CORRIDOR | 160 | 0 | 0.0 | 0.06 | 10 | 0.8 | 12 | 110 | 0.11 | | | | | | | | | HP-5 |
| OFFICE C | 161 | 1 | 5.0 | 0.06 | 15 | 0.8 | 18 | 240 | 0.08 | | | | | | | | | HP-5 |
| BREAK/MAIL | 209 | 1 | 5.0 | 0.06 | 18 | 0.8 | 22 | 210 | 0.10 | | | | | | | | | HP-5 |
| ADMIN ASSISTANT | 162 | 1 | 5.0 | 0.06 | 15 | 0.8 | 18 | 240 | 0.08 | | | | | | | | | HP-5 |
| TOTAL (HP-5) | 692 | | | | 58 | | | | | 1 | 58 | 60 | | | | | | HP-5 |
| | | | | | | | | | | | | | | | | | | |
| EVIDENCE | 674 | 4 | 5.0 | 0.06 | 60 | 0.8 | 76 | | | | | 80 | | | | | | HP-6 |
| 055105.4 | 1.17 | | 5.0 | 0.00 | 4.4 | 0.0 | 47 | 200 | 0.00 | | | | | | | | | |
| OFFICE A RECORDS CLERK | 143 145 | 1 | 5.0 | 0.06 | 14 | 0.8 | 17 17 | 200 | 0.08 | | | | | | | | | HP-7 HP-7 |
| CORRIDOR | 468 | 0 | 0.0 | 0.06 | 28 | 0.8 | 35 | 310 | 0.09 | | | | | | | | | HP-7 |
| ARMORY | 88 | 1 | 5.0 | 0.06 | 10 | 0.8 | 13 | 90 | 0.14 | | | | | | | | | HP-7 |
| TOTAL (HP-7) | 844 | | | | 66 | | | | | 1 | 66 | 70 | | | | | | HP-7 |
| | | | | | | | | | | | | | | | | | | |
| INVEST. OFFICE | 134 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 175 | 0.09 | | | | | | | | | HP-8 |
| INVESTIGATIONS | 593 | 3 | 5.0 | 0.06 | 51 | 0.8 | 63 | 625 | 0.10 | | | | | | | | | HP-8 |
| TOTAL (HP-8) | 727 | | | | 64 | | | | | 1 | 64 | 65 | | | | | | HP-8 |
| | | | | | | | | | | | | | | | | | | |
| INVEST. CAPTAIN | 149 | 1 | 5.0 | 0.06 | 14 | 0.8 | 17 | 220 | 0.08 | | | | | | | | | HP-9 |
| INVEST. OFFICE A | 134 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 200 | 0.08 | | | | | | | | | HP-9 |
| FILES | 68 | 1 | 5.0 | 0.06 | 9 | 0.8 | 11 | 100 | 0.11 | | | | | | | | | HP-9 |
| INVEST. OFFICE C | 172 | 1 | 5.0 | 0.06 | 15 | 0.8 | 19 | 280 | 0.07 | | | | | | | | | HP-9 |
| INTERVIEW 1 | 94 | 2 | 5.0 | 0.06 | 16 | 0.8 | 20 | 135 | 0.14 | | | | | | | | | HP-9 |
| INTERVIEW 2 | 99 | 2 | 5.0 | 0.06 | 16 | 0.8 | 20 | 140 | 0.14 | | | | | | | | | HP-9 |
| SECURE | 100 | 0 | 0.0 | 0.06 | 6 | 0.8 | 8 | 125 | 0.06 | | _ | _ | | | | | | HP-9 |
| TOTAL (HP-9) | 816 | | | | 89 | | | | | 1 | 89 | 90 | | | | | | HP-9 |
| 024 | E 7.4 | | 20.0 | 0.00 | 470 | 1.0 | 170 | | | | | 475 | | | | | | UD 40 |
| GYM | 531 | 5 | 20.0 | 0.06 | 132 | 1.0 | 132 | | | | | 135 | | | | | | HP-10 |

| | | | OUTDOOR A | IR CALCULAT | IONS | | | | | | | | EXHAUST AIR | | | | | |
|----------------------------|--------------|-----------------|------------------------|---------------|------------|-----------|-------------|-------------|---------------|----|-----|---------------|-------------|----------|----------|--------------|---------------|---------------------|
| ROOM NAME | AREA (SF) | PEOPLE (QTY) | PEOPLE (CFM/PERSON) | AREA (CFM/SF) | I | EZ | VOZ CFM | VPZ CFM | ZP VOZ/VPZ | EV | VOT | DESIGN CFM | CFM/SF | FIXTURES | UNIT | REQUIRED CFM | DESIGN CFM | UNIT |
| OODDIDOD | 1.015 | | | | | 0.0 | 7.0 | | | | | 90 | , | | | СЕМ | CFM | UD 44 |
| CORRIDOR | 1,015 | 0 | 0.0 | 0.06 | 61 | 0.8 | 76 | | | | | 80 | | | | | | HP-11 |
| | | | | | _ | | | | | | | | | | | | | |
| ALCO | 46 | 1 | 5.0 | 0.06 | 8 | 0.8 | 10 | 75 | 0.13 | | | | | | | | | HP-12 |
| PATROL WORK AREA | 415 | 5 | 5.0 | 0.06 | 50 | 0.8 | 62 | 675 | 0.09 | | | | | | | | | HP-12 |
| BOOKING | 504 | 15 | 5.0 | 0.06 | 105 | 0.8 | 132 | 850 | 0.15 | | | | | | | | | HP-12 |
| PATROL CAPTAIN | 153 | 1 | 5.0 | 0.06 | 14 | 0.8 | 18 | 250 | 0.07 | | | | | | | | | HP-12 |
| TOTAL (HP-12) | 1,118 | | | | 177 | | | | | 1 | 177 | 180 | | | | | | HP-12 |
| | | | | | | | | | | | | | | | | | | |
| BREAK/BEVERAGE | 1,268 | 35 | | | SEE BREA | K/BEVERAG | E IAQ BIOCI | LIMATIC SHE | ET —— I | | | 150 | | | | | | HP-13 (NORMAL USE) |
| | | | | | | | | | | | | | | | | | | |
| STORM SHELTER | 1,268 | 203 | 5.0 | 0.00 | 1,015 | 1 | 1,015 | | | | | 1,015 | | | | | | HP-13 (EMERGENCY US |
| | | | | | | | | | | | | | | | | | | |
| LOBBY | 256 | 3 | 5.0 | 0.06 | 30 | 0.8 | 38 | 300 | 0.13 | | | | | | | | | HP-14 |
| COURT MAGISTRATE | 298 | 2 | 5.0 | 0.06 | 28 | 0.8 | 35 | 400 | 0.09 | | | | | | | | | HP-14 |
| TOTAL (HP-14) | 554 | | | | 58 | | | | | 1 | 58 | 60 | | | | | | HP-14 |
| | | | | | | | | | | | | | | | | | | |
| COURT/RAMP/BENCH | 1,742 | 102 | | SE | EE COURT A | ND RAMP/B | ENCH IAQ E | BIOCLIMATIC | SHEET — | | | | | | | | | HP-15/HP-16 |
| CONFERENCE | 91 | 2 | 5.0 | 0.06 | 15 | 0.8 | 19 | 135 | 0.14 | | | | | | | | | HP-15/HP-16 |
| CONFERENCE | 94 | 2 | 5.0 | 0.06 | 16 | 0.8 | 20 | 135 | 0.14 | | | | | | | | | HP-15/HP-16 |
| TOTAL (HP-15/HP-16) | 1,927 | | | | 31 | | | | | 1 | 31 | 400 | | | | | | HP-15/HP-16 |
| | | | | | | | | | | | | | | | | | | |
| SRO | 107 | 1 | 5.0 | 0.06 | 11 | 0.8 | 14 | 175 | 0.08 | | | | | | | | | HP-17 |
| K9 | 128 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 170 | 0.09 | | | | | | | | | HP-17 |
| TRAINING SGT. | 132 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 170 | 0.10 | | | | | | | | | HP-17 |
| CORRIDOR | 160 | 0 | 0.0 | 0.06 | 10 | 0.8 | 12 | 135 | 0.09 | | | | | | | | | HP-17 |
| UNIFORM | 110 | 1 | 5.0 | 0.06 | 12 | 0.8 | 15 | 190 | 0.08 | | | | | | | | | HP-17 |
| ANIMAL CONTROL | 132 | 1 | 5.0 | 0.06 | 13 | 0.8 | 16 | 190 | 0.09 | | | | | | | | | HP-17 |
| SPECIAL OPS | 137 | 1 | 5.0 | 0.06 | 13 | 0.8 | 17 | 170 | 0.10 | | | | | | | | | HP-17 |
| TOTAL (HP-17) | 906 | | | | 85 | | | | | 1 | 85 | 85 | | | | | | HP-17 |
| | | | | | | | | | | | | | | | | | | |
| ADA RESTROOM | 70 | | | | | | | | | | | | | 1 | 75 | 75 | 75 | EF-1 |
| ADA RESTROOM | 70 | | | | | | | | | | | | | 1 | 75 | 75 | 75 | EF-2 |
| CHIEF RESTROOM | 40 | | | | | | | | | | | | | 1 | 75 | 75 | 75 | EF-3 |
| EVIDENCE LOCKER | 70 | | | | | | | | | | | | 1 | | | 70 | 70 | EF-4 |
| MENS LOCKER | 235 | | | | | | | | | | | | 0.5 | 1 | 50 | 168 | 170 | EF-5 |
| MENS | 238 | | | | | | | | | | | | | 3 | 75 | 225 | 225 | EF-6 |
| WOMENS LOCKER | 95 | | | | | | | | | | | | 0.5 | 1 | 50 | 98 | 100 | EF-7 |
| WOMENS | 230 | | | - | | | | <u> </u> | | | | | | 3 | 75 | 225 | 225 | EF-8 |
| ADA RESTROOM | 46 | | | 1 | | | | | | | | | | 1 | 75 | 75 | 75 | EF-9 |
| ADA RESTROOM ADA RESTROOM | 56 | | | | | | | | | | | | | 1 | 75 | 75 | 75 | EF-10 |
| JANITOR | 74 | | | | | | | | | | | | | 1 | 75 75 | 75 | 75 75 | EF-10 |
| | | | | | | | | | | | | | | | | | | |
| WOMEN | 57 | | | | | | | | | | | | | 1 | 75 | 75 | 75 | EF-12 |
| MEN | 57 | | | | | | | | 1 | | | | | 1 | 75 | 75 | 75 | EF-13 |

HVAC COMPLIANCE CALCULATIONS

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E PHONE: (256) 820-9897

DATE 03-28-2025
25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

205

WHORTON ENGINEERING PROJECT NO. 23222

TOTAL REFRIGERANT CHARGE:

| (1) OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022. | | | | | | | | | | | | | | | |
|--|-----|----------|-------|----------|------|------|-----|---------|-----|--------|----------|-----|--------|---------|----------|
| OCCUPIED SPACE COMPLIES WITH 2024 INC. CHAPTER 11, ASHRAE 15, 2022, AND ASHRAE 34, 2022 | | | | | | | | | | | | | | | |
| (1) OCCUDIED SPACE COMPLIES WITH 2024 INC. CHARTER 11. ASHRAE 15. 2022. AND ASHRAE 34. 2022. | | | | | | | | | | | | | | | |
| (I) OCCUPIED SPACE COMPLIES WITH 2024 INC CHAPTER II, ASHRAE ID-2022, AND ASHRAE 34-2022. | (1) | OCCUPIED | SPACE | COMPLIES | WITH | 2024 | IMC | CHAPTER | 11, | ASHRAE | 15-2022, | AND | ASHRAE | 34-2022 | <u> </u> |

- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- 3 REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5 REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- (8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| | HP-2 | AMC | UNT (| OF RI | EFRIG | ERANT | PER O | CCUP | IED SF | PACE | |
|------------|--------------|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| REPORT | 129 | 8 | 1,032 | HP-2 | | | | | | | |
| CLERK | 132 | 8 | 1,056 | HP-2 | | | | | | | |
| RECORDS | 271 | 8 | 2,168 | HP-2 | | | | | | | |
| CORRIDOR 2 | 181 | 8 | 1,448 | HP-2 | | | | | | | |
| OFFICE B | 159 | 8 | 1,272 | HP-2 | | | | | | | |
| WORKROOM | 158 | 8 | 1,264 | HP-2 | | | | | | | |
| FILES | 130 | 8 | 1,040 | HP-2 | | | | | | | |
| TOTAL | 1,160 | | 9,280 | HP-2 | R-454B | 0.022 | 0.5 | 1 | 7.875 | | SEE BELOW |
| | | | | | | | MAXIMUM ALLOW | /ED REFRIGERANT: | | 102.1 | |
| NOTES: | | | | | | | TOTAL REFRIGER | RANT CHARGE: | 7.875 | | |

- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4 SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5 REFRIGERANT CLASSIFICATION A2L.
- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| | HP-3 | AMC | UNT (| OF RI | EFRIG | ERANT | PER O | CCUP | IED SF | PACE | |
|------------|--------------|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| CONFERENCE | 505 | 8 | 4,040 | HP-3 | | | | | | | |
| TOTAL | 505 | | 4,040 | HP-3 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW |
| | - | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 44.4 | |
| NOTES: | | | | | | | TOTAL REFRIGER | ANT CHARGE: | 4.625 | | |

① OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4 SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5 REFRIGERANT CLASSIFICATION A2L.
- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7 EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| | HP-4 | AMC | UNT (| OF RI | EFRIG | ERANT | PER O | CCUP | IED SF | PACE | |
|----------------|--------------|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| CHIEF | 321 | 8 | 2,568 | HP-4 | | | | | | | |
| CHIEF RESTROOM | 40 | 8 | 320 | HP-4 | | | | | | | |
| DEPUTY CHIEF | 200 | 8 | 1,600 | HP-4 | | | | | | | |
| TOTAL | 561 | | 4,488 | HP-4 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW |
| | | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 49.4 | |
| NOTES: | | | | | | | TOTAL REFRIGER | ANT CHARGE: | 4.625 | | |

(1) OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

- (2) OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- (7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| | HP-5 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | | |
|------------------|---|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|--|--|--|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | | |
| BREAK/MAIL | 209 | 8 | 1,672 | HP-5 | | | | | | | | | | |
| ADMIN. ASSISTANT | 162 | 8 | 1,296 | HP-5 | | | | | | | | | | |
| OFFICE C | 161 | 8 | 1,288 | HP-5 | | | | | | | | | | |
| CORRIDOR 2 | 160 | 8 | 1,280 | HP-5 | | | | | | | | | | |
| TOTAL | 692 | | 5,536 | HP-5 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW | | | |
| | | | | | | | MAXIMUM ALLOW | /ED REFRIGERANT: | | 60.9 | | | | |
| NOTES: | | | | | | | TOTAL REFRIGER | RANT CHARGE: | 4.625 | | | | | |

OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L. (6) IMC TABLE 1103.1 - AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.

| (7) | EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB). |
|-----|--|
| (8) | PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC. |

| | HP-6 | AMC | UNT (| OF RI | EFRIG | ERANT | PER O | CCUP | IED SF | PACE | |
|-----------------|--------------|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| EVIDENCE | 674 | 8 | 5,392 | HP-6 | | | | | | | |
| EVIDENCE LOCKER | 70 | 8 | 560 | HP-6 | | | | | | | |
| TOTAL | 744 | | 5,952 | HP-6 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW |
| | | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 65.5 | |
| NOTES: | | | | | | | TOTAL REFRIGER | RANT CHARGE: | 4.625 | | |

- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL – LOWER FLAMMABILITY LIMIT (LB/CF) | CF — CONCENTRATION FACTOR | FOCC – OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | | |
|------------------------|---|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|--|--|--|
| EVIDENCE | 674 | 8 | 5,392 | HP-6 | | | | | | | | | | |
| EVIDENCE LOCKER | 70 | 8 | 560 | HP-6 | | | | | | | | | | |
| TOTAL | 744 | | 5,952 | HP-6 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW | | | |
| | | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 65.5 | | | | |
| NOTES: | | | | | | | TOTAL REFRIGER | ANT CHARGE: | 4.625 | | | | | |
| 2 OCCUPANC 3 REFRIGERA | OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022. OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL. REFRIGERANT = R-454B. SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY. | | | | | | | | | | | | | |

HVAC REFRIGERANT CALCULATIONS

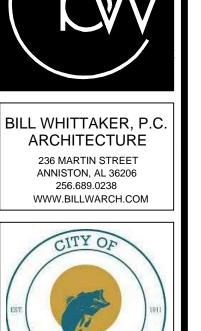
WHORTON ENGINEERING, INC. HVAC - PLUMBING - PROCESS CONTROL

Randel Whoston

DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205



WHORTON ENGINEERING PROJECT NO. 23222





Attn: Tony Dodd

CALCULATIONS

M2.4

| (1) | OCCUPIED | SPACE | COMPLIES | WITH | 2024 | IMC | CHAPTER | 11, | ASHRAE | 15-2022, | AND | ASHRAE | 34-202 | 22. |
|-----|----------|-------|----------|------|------|-----|---------|-----|--------|----------|-----|--------|--------|-----|

- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- 3 REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5 REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- (8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| HP-8 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | |
|---|--------------|-------------------|--|----------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|--|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | |
| INVEST. OFFICE | 134 | 8 | 1,072 | HP-8 | | | | | | | | |
| INVESTIGATIONS | 593 | 8 | 4,744 | HP-8 | | | | | | | | |
| TOTAL | 727 | | 5,816 | HP-8 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW | |
| | • | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 64.0 | | |
| NOTES: | | | | TOTAL REFRIGER | ANT CHARGE: | 4.625 | | | | | | |

- OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5) REFRIGERANT CLASSIFICATION A2L.
- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| | HP-9 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | | |
|------------------|---|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|--|--|--|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF — EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | | |
| INVEST. CAPT. | 149 | 8 | 1,192 | HP-9 | | | | | | | | | | |
| INVEST. OFFICE A | 134 | 8 | 1,072 | HP-9 | | | | | | | | | | |
| FILES | 68 | 8 | 544 | HP-9 | | | | | | | | | | |
| INVEST. OFFICE C | 172 | 8 | 1,376 | HP-9 | | | | | | | | | | |
| INTERVIEW 1 | 94 | 8 | 752 | HP-9 | | | | | | | | | | |
| INTERVIEW 2 | 99 | 8 | 792 | HP-9 | | | | | | | | | | |
| SECURE | 100 | 8 | 800 | HP-9 | | | | | | | | | | |
| TOTAL | 816 | | 6,528 | HP-9 | R-454B | 0.022 | 0.5 | 1 | 5.625 | | SEE BELOW | | | |
| | | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 71.8 | | | | |

TOTAL REFRIGERANT CHARGE:

① OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.

- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.

NOTES:

- (4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- (7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- (8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| F | HP-10 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | | | |
|--------|--|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|--|--|--|--|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | | | |
| GYM | 531 | 8 | 4,248 | HP-10 | | | | | | | | | | | |
| TOTAL | 531 | | 4,248 | HP-10 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW | | | | |
| | | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 46.7 | | | | | |
| NOTES: | | | | | | | TOTAL REFRIGER | ANT CHARGE: | 4.625 | | | | | | |

- (1) OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- (2) OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- (4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| ŀ | HP-11 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | |
|------------------|--|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-------|--|--|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF — CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | |
| CORRIDOR 3 AND 4 | 1,015 | 8 | 8,120 | HP-11 | | | | | | | | | |
| WOMENS | 230 | 8 | 1,840 | HP-11 | | | | | | | | | |
| W. LOCKER | 95 | 8 | 760 | HP-11 | | | | | | | | | |
| MENS | 238 | 8 | 1,904 | HP-11 | | | | | | | | | |
| M. LOCKER | 235 | 8 | 1,880 | HP-11 | | | | | | | | | |
| TOTAL | 1,813 | | 14,504 | HP-11 | R-454B | 0.022 | 0.5 | 1 | 7.875 | | | | |
| | | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 159.5 | | | |
| NOTES: | | | | | | | TOTAL REFRIGER | RANT CHARGE: | 7.875 | | | | |

- 1) OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- 2) OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- (3) REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF. 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| F | HP-12 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | | |
|------------------|--|-------------------|--|--------------|---------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|--|--|--|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | | |
| ADA RESTROOM | 46 | 8 | 368 | HP-12 | | | | | | | | | | |
| ALCO | 46 | 8 | 368 | HP-12 | | | | | | | | | | |
| PATROL WORK AREA | 415 | 8 | 3,320 | HP-12 | | | | | | | | | | |
| BOOKING | 504 | 8 | 4,032 | HP-12 | | | | | | | | | | |
| PATROL CAPTAIN | 153 | 8 | 1,224 | HP-12 | | | | | | | | | | |
| TOTAL | 1,164 | | 9,312 | HP-12 | R-454B | 0.022 | 0.5 | 1 | 8.375 | | SEE BELOW | | | |
| | | | | | | | MAXIMUM ALLOW | /ED REFRIGERANT: | | 102.4 | | | | |
| NOTES: | | | | | | | TOTAL REFRIGER | RANT CHARGE: | 8.375 | | | | | |

| NO | 1 E 3. | TOTAL REFRIGERANT CHARGE. | 6.575 | |
|-----|--|---------------------------|-------|--|
| | | | | |
| 1 | OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022 | 2, AND ASHRAE 34-2022. | | |
| 2 | OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL. | | | |
| 3 | REFRIGERANT = $R-454B$. | | | |
| 4 | SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY. | | | |
| (5) | REFRIGERANT CLASSIFICATION A2L. | | | |
| 6 | IMC TABLE 1103.1 - AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3 | 5.1 LBS/1000 CF. | | |
| 7 | EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB). | | | |
| 8 | PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC. | | | |
| | | | | |

HVAC REFRIGERANT CALCULATIONS

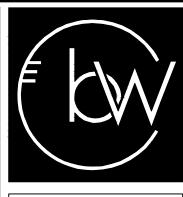


Randale Whoston

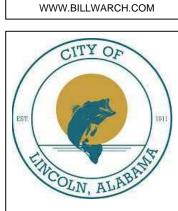
DATE 03-28-2025 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205



WHORTON ENGINEERING PROJECT NO. 23222



BILL WHITTAKER, P.C ARCHITECTURE 236 MARTIN STREET ANNISTON, AL 36206 256.689.0238





City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

03.31.25 BID

24001

DESCRIPTION: REFRIGERANT CALCULATIONS

M2.5



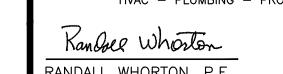
256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER

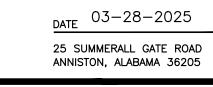
Pinson, AL 35126 205-942-0696

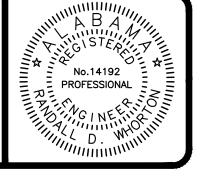
Attn: Tony Dodd

CALCULATIONS

M2.6







| HP-13 / DH-1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | | | |
|---|-----------------------------|--|---|---|--|--|---|---|---|---|--|--|--|
| AREA (SF) | CEILING HEIGHT | VEFF – EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES | | | |
| 1,268 | 8 | 10,144 | HP-13/DH-1 | | | | | | | | | | |
| 56 | 8 | 448 | HP-13/DH-1 | | | | | | | | | | |
| 1,324 | | 10,592 | HP-13/DH-1 | R-454B | 0.022 | 0.5 | 1 | 9.1875 | | SEE BELOW | | | |
| | | | | | | MAXIMUM ALLOW | ED REFRIGERANT: | | 116.5 | | | | |
| | AREA (SF) 1,268 56 | AREA CEILING HEIGHT 1,268 8 56 8 | AREA (SF) CEILING HEIGHT VEFF — EFFECTIVE DISPERSAL VOLUME (CF) 1,268 8 10,144 56 8 448 | AREA (SF) CEILING HEIGHT VEFF — EFFECTIVE DISPERSAL VOLUME (CF) SERVED BY 1,268 8 10,144 HP-13/DH-1 56 8 448 HP-13/DH-1 | AREA (SF) CEILING HEIGHT VEFF— EFFECTIVE DISPERSAL VOLUME (CF) 1,268 8 10,144 HP-13/DH-1 56 8 448 HP-13/DH-1 | AREA (SF) CEILING HEIGHT CEILING DISPERSAL VOLUME (CF) 1,268 8 10,144 HP-13/DH-1 FEFRIGERANT TYPE LFL - LOWER FLAMMABILITY LIMIT (LB/CF) | AREA (SF) CEILING HEIGHT VOLUME (CF) SERVED BY REFRIGERANT TYPE FLAMMABILITY LIMIT (LB/CF) CONCENTRATION FACTOR 1,268 8 10,144 HP-13/DH-1 56 8 448 HP-13/DH-1 1,324 10,592 HP-13/DH-1 R-454B 0.022 0.5 | AREA (SF) CEILING HEIGHT CEFFECTIVE DISPERSAL VOLUME (CF) SERVED BY REFRIGERANT TYPE LIMIT (LB/CF) CONCENTRATION FACTOR REFRIGERANT TYPE LAMMABILITY LIMIT (LB/CF) 1,268 8 10,144 HP-13/DH-1 56 8 448 HP-13/DH-1 | AREA (SF) CEILING HEIGHT VEFF — EFFECTIVE DISPERSAL VOLUME (CF) SERVED BY REFRIGERANT TYPE FLAMMABILITY LIMIT (LB/CF) CONCENTRATION FACTOR FACTOR FACTOR REFRIGERANT CHARGE (LB) 1,268 8 10,144 HP-13/DH-1 56 8 448 HP-13/DH-1 1,324 10,592 HP-13/DH-1 R-454B 0.022 0.5 1 9.1875 | AREA (SF) CEILING HEIGHT VEFF — EFFECTIVE DISPERSAL VOLUME (CF) SERVED BY REFRIGERANT TYPE LFL — LOWER FLAMMABILITY LIMIT (LB/CF) CONCENTRATION FACTOR FOCC — OCCUPANCY ADJUSTMENT FACTOR REFRIGERANT CHARGE (LB) 1,268 8 10,144 HP-13/DH-1 4 4 HP-13/DH-1 4 4 4 HP-13/DH-1 4 | | | |

TOTAL REFRIGERANT CHARGE:

9.1875

- ① OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.

NOTES:

- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L.
- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| HP-14 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | |
|--|--------------|-------------------|--|--------------|-----------------------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF — EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| LOBBY | 256 | 8 | 2,048 | HP-14 | | | | | | | |
| MEN | 57 | 8 | 456 | HP-14 | | | | | | | |
| WOMEN | 57 | 8 | 456 | HP-14 | | | | | | | |
| COURT MAGISTRATE | 298 | 8 | 2,384 | HP-14 | | | | | | | |
| TOTAL | 668 | | 5,344 | HP-14 | R-454B | 0.022 | 0.5 | 1 | 4.625 | | SEE BELOW |
| | | | | • | MAXIMUM ALLOWED REFRIGERANT: 58.8 | | | | | | |
| NOTES: | | | | | TOTAL REFRIGERANT CHARGE: 4.625 | | | | | | |

- ① OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5 REFRIGERANT CLASSIFICATION A2L.
- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7 EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| HP-1 | HP-15 / HP-16 / DH-2 AMOUNT OF REFRIG. PER OCCUPIED SPACE | | | | | | | | | | |
|------------|---|-------------------|--|-------------------------|-----------------------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF — EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| COURT | 1,507 | 8 | 12,056 | HP-15/HP-16 AND DH-2 | | | | | | | |
| RAMP/BENCH | 235 | 8 | 1,880 | HP-15/HP-16 AND DH-2 | | | | | | | |
| CONFERENCE | 91 | 8 | 728 | HP-15/HP-16 AND DH-2 | | | | | | | |
| CONFERENCE | 94 | 8 | 752 | HP-15/HP-16 AND DH-2 | | | | | | | |
| TOTAL | 1,927 | | 15,416 | HP-15/HP-16 AND DH-2 | R-454B | 0.022 | 0.5 | 1 | 21.1875 | | SEE BELOW |
| | | | | | MAXIMUM ALLOWED REFRIGERANT: | | | | 169.6 | | |
| NOTES: | | | | | TOTAL REFRIGERANT CHARGE: 21.1875 | | | | | | |

- 1) OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- 2 OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- 4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5) REFRIGERANT CLASSIFICATION A2L.
- 6 IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- (7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8 PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| HP-17 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | |
|--|--------------|-------------------|--|--------------|---------------------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF — EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| SRO | 107 | 8 | 856 | HP-17 | | | | | | | |
| К9 | 128 | 8 | 1,024 | HP-17 | | | | | | | |
| TRAINING SGT. | 132 | 8 | 1,056 | HP-17 | | | | | | | |
| CORRIDOR 6 | 160 | 8 | 1,280 | HP-17 | | | | | | | |
| UNIFORM | 110 | 8 | 880 | HP-17 | | | | | | | |
| ANIMAL CONTROL | 132 | 8 | 1,056 | HP-17 | | | | | | | |
| SPECIAL OPS | 137 | 8 | 1,096 | HP-17 | | | | | | | |
| TOTAL | 906 | | 7,248 | HP-17 | R-454B | 0.022 | 0.5 | 1 | 5.625 | | SEE BELOW |
| | | | | | MAXIMUM ALLOWED REFRIGERANT: | | | | | 79.7 | |
| NOTES: | | | | | TOTAL REFRIGERANT CHARGE: 5.625 | | | | | | |

- OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022. (2) OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- (3) REFRIGERANT = R-454B.
- (4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- (5) REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- (7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- 8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

| DAC-1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE | | | | | | | | | | | |
|--|--------------|-------------------|--|--------------|---------------------------------|--|---------------------------------|---|-------------------------------|--------------|-----------|
| ROOM | AREA (SF) | CEILING HEIGHT | VEFF — EFFECTIVE DISPERSAL VOLUME (CF) | SERVED BY | REFRIGERANT TYPE | LFL — LOWER FLAMMABILITY LIMIT (LB/CF) | CF – CONCENTRATION FACTOR | FOCC — OCCUPANCY ADJUSTMENT FACTOR | REFRIGERANT CHARGE (LB) | EDVC (LB) | NOTES |
| I.T. | 88 | 8 | 704 | DAC-1 | | | | | | | |
| TOTAL | 88 | | 704 | DAC-1 | R-454B | 0.022 | 0.5 | 1 | 4.375 | | SEE BELOW |
| | | | | | MAXIMUM ALLOWED REFRIGERANT: | | | | | 7.7 | |
| NOTES: | | | | | TOTAL REFRIGERANT CHARGE: 4.375 | | | | | | |

- (1) OCCUPIED SPACE COMPLIES WITH 2024 IMC CHAPTER 11, ASHRAE 15-2022, AND ASHRAE 34-2022.
- (2) OCCUPANCY CLASSIFICATION (IMC 1103.2) = COMMERCIAL.
- \bigcirc REFRIGERANT = R-454B.
- (4) SYSTEM CLASSIFICATION (IMC 1103.3) = HIGH PROBABILITY.
- 5 REFRIGERANT CLASSIFICATION A2L.
- (6) IMC TABLE 1103.1 AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 3.1 LBS/1000 CF.
- 7) EDVC = EFFECTIVE DISPERSAL VOLUME CHARGE (LB).
- (8) PER ASHRAE 15-2022: EDVC = VEFF * LFL * CF * FOCC.

REFRIGERANT LEAK DETECTION NOTES

1. THE REFRIGERANT DETECTION SYSTEM SHALL COMPLY WITH THE FOLLOWING:

- A. UTILIZE A SET POINT, NONADJUSTABLE IN THE FIELD, TO GENERATE AN OUTPUT SIGNAL TO
- B. FIELD RECALIBRATION OF THE REFRIGERANT DETECTION SYSTEM SHALL NOT BE PERMITTED.
- C. BE CAPABLE OF DETECTING THE PRESENCE OF A SPECIFIED REFRIGERANT CORRESPONDING TO THE REFRIGERANT DESIGNATION OF THE REFRIGERANT CONTAINED IN THE REFRIGERATION SYSTEM.
- D. HAVE ACCESS FOR REPLACEMENT OF REFRIGERANT DETECTION SYSTEM COMPONENTS.
- E. HAVE SELF-DIAGNOSTICS TO DETERMINE OPERATIONAL STATUS OF THE SENSING ELEMENT.
- F. ENERGIZE AIR CIRCULATION FANS OF THE EQUIPMENT UPON FAILURE OF A SELF-DIAGNOSTIC CHECK. G. GENERATE AN OUTPUT SIGNAL IN NOT MORE THAN 30 SECONDS WHEN EXPOSED TO A REFRIGERANT
- ÔU ÞÔÒÞ VÜŒVOUÞÁU ØÁGÍà ÁŠØŠÁQÉ€ÃÉÁ FÁ DÈ 2. THE UNIT SHALL BE EQUIPPED WITH FACTORY LEAK DETECTION.

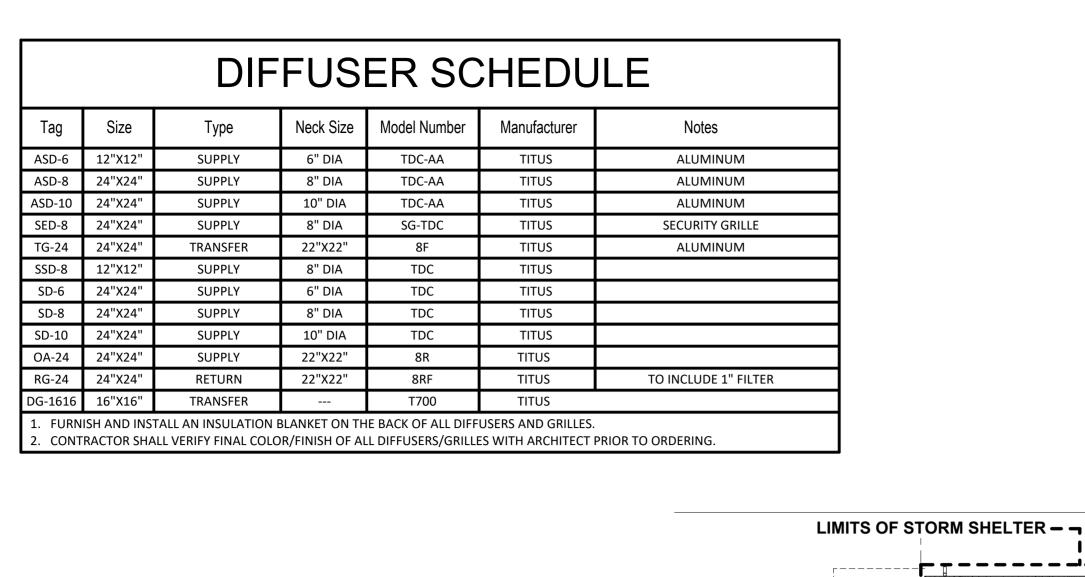
THE UNIT WILL INITIATE MITIGATION STEPS.

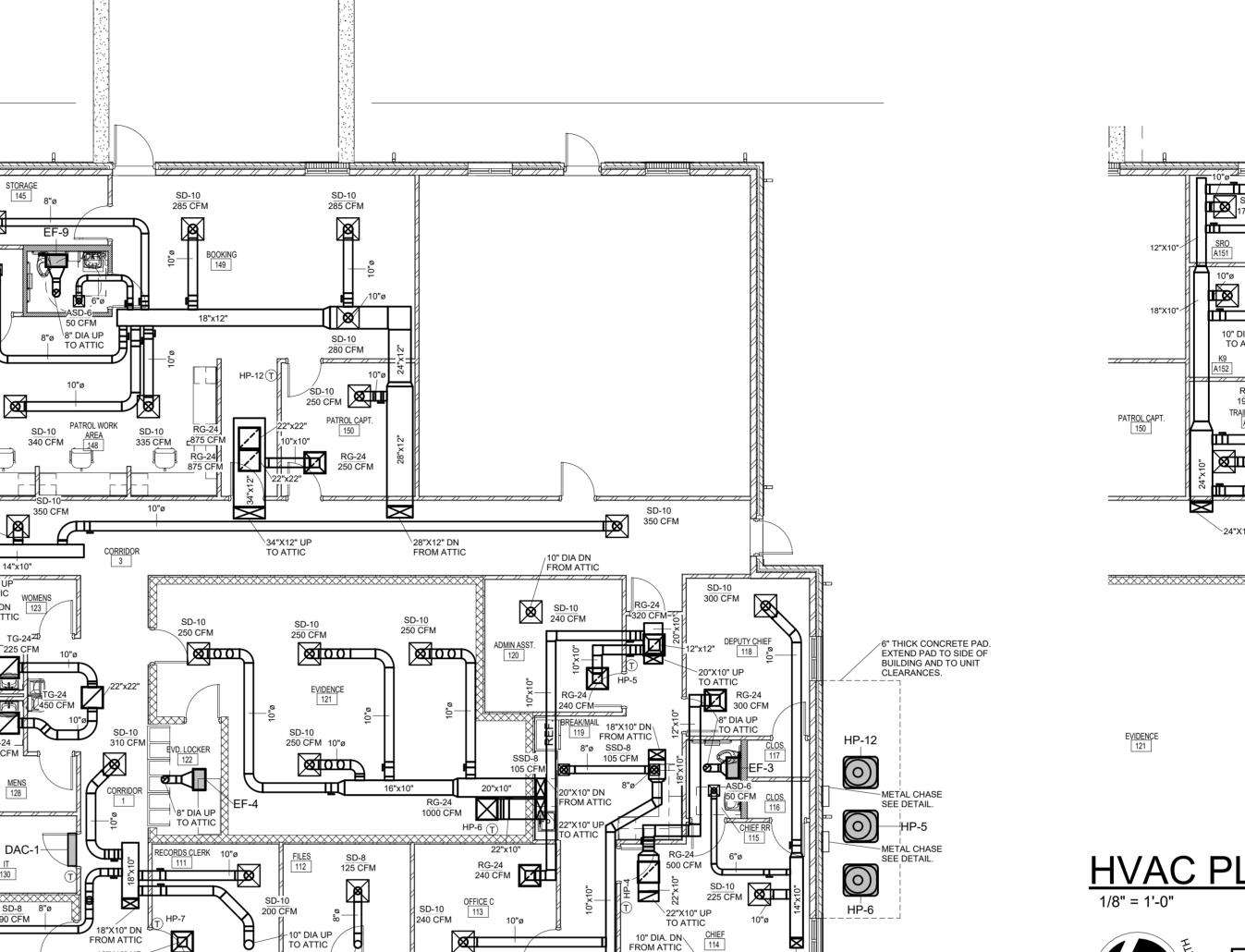
3. IN THE EVENT OF A FAILURE OF THE REFRIGERANT DETECTOR OR THE RELEASE MITIGATION CONTROLS,

- 4. USE ONLY MANUFACTURER APPROVED SENSORS WHEN REPLACEMENT IS REQUIRED. 5. FACTORY LEAK DETECTION SHALL COMPLY WITH UL 60335-2-40, UL 60335-2-89, UL 484.
- 6. BUILDING FIRE AND SMOKE SYSTEMS SHALL OVERRIDE LEAK DETECTION MITIGATION.
- 7. FACTORY LEAK DETECTION SYSTEM SHALL MONITOR FOR LEAKS AND ACTIVATE THE FOLLOWING MITIGATION
 - A. SUPPLY FANS ACTIVATED TO DELIVER CIRCULATION AIRFLOW.
 - B. COMPRESSORS TURNED OFF AND DISABLED.
- C. OPEN ZONING DAMPERS, OR SET ZONE DAMPERS TO FULL AIRFLOW SET POINT, THAT ARE INSTALLED
- D. ALL ELECTRIC HEAT OR GAS HEAT SHALL BE DISABLED.
- E. MITIGATION WILL CONTINUE UNTIL REFRIGERANT HAS NOT BEEN DETECTED FOR AT LEAST FIVE MINUTES.

HVAC REFRIGERANT CALCULATIONS

WHORTON ENGINEERING PROJECT NO. 23222

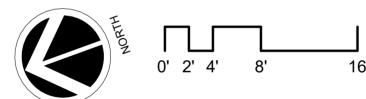




HVAC PLAN - BASE BID

24"X10" DN FROM ATTIC 28"X10" UP TO ATTIC

HVAC PLAN - ALTERNATE BID - OFFICE



236 Martin Street Anniston, AL 36206 11L 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts 125 18th St N Pell City, AL 35125

BILL WHITTAKER, P.O.

ARCHITECTURE

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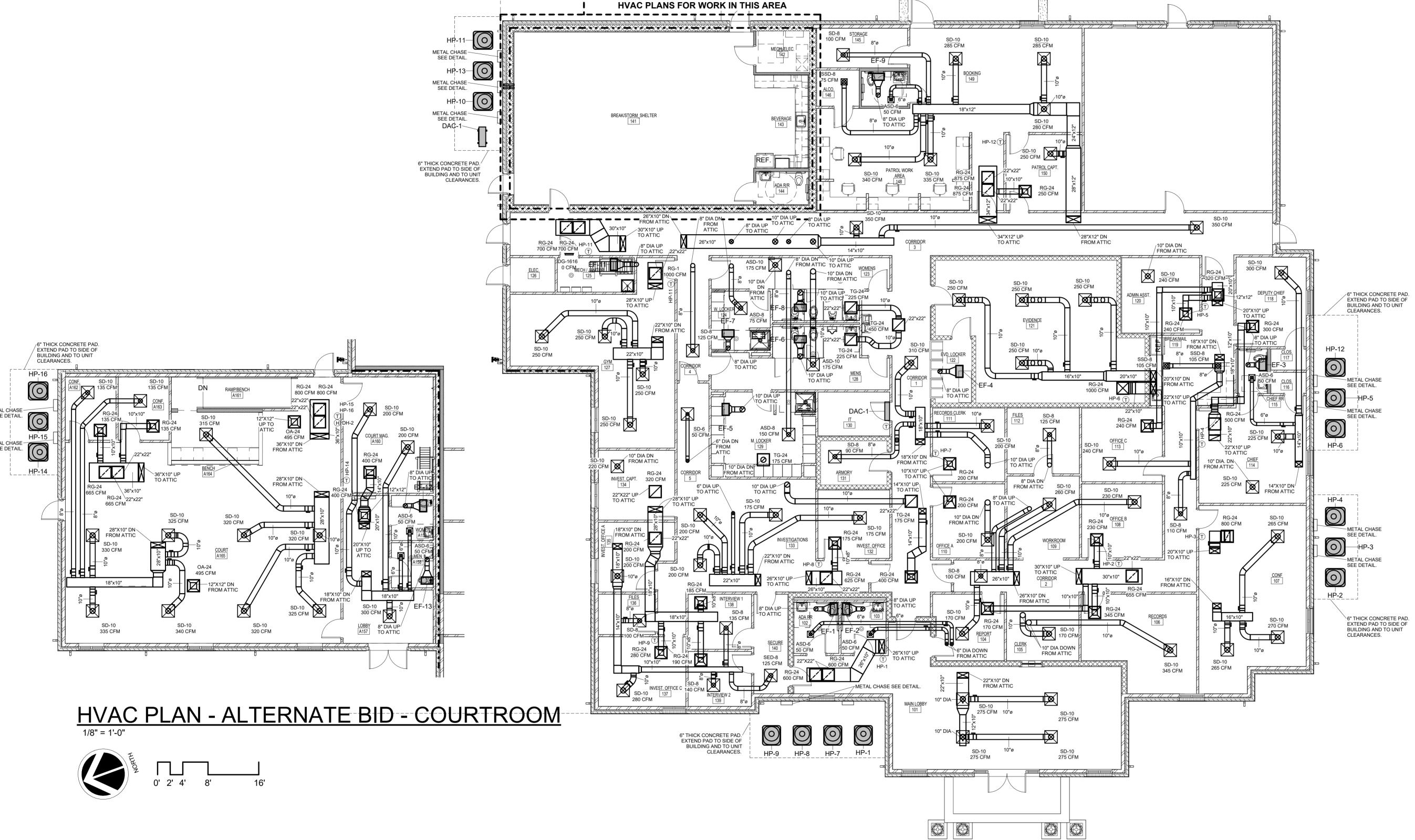
ISSUE: 03.31.25 BID

24001

DESCRIPTION:

HVAC PLANS





SEE SHEET M4.1 - STORM SHELTER

GENERAL NOTES:

FRESH AIR DAMPERS TO BE 120VAC, NORMALLY CLOSED. THE DAMPER SHALL BE WIRED TO OPEN WHEN ROOM LIGHTS ARE ON AND THE UNIT FAN IS RUNNING. TYPICAL UNLESS OTHERWISE NOTED.

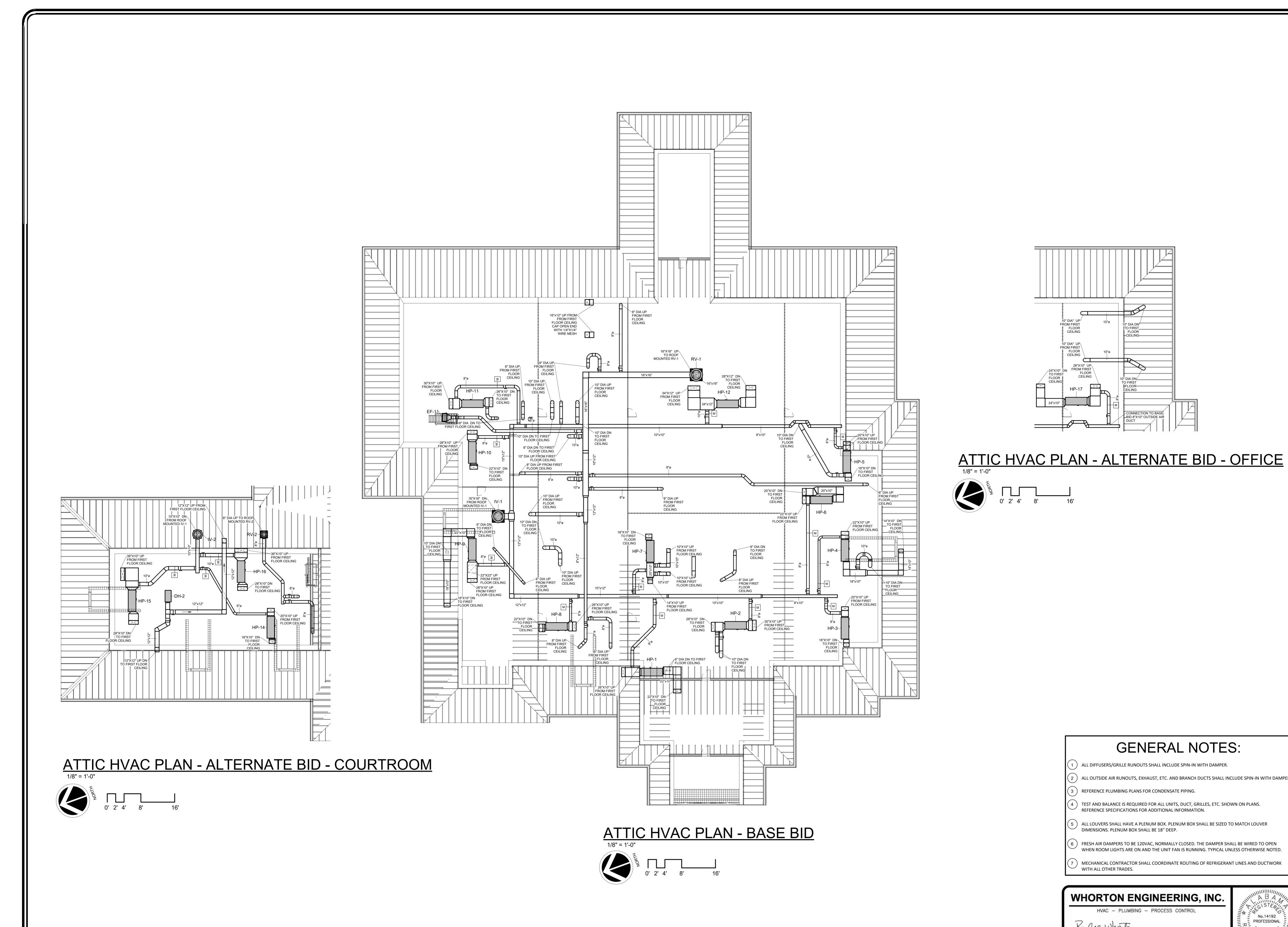
MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF REFRIGERANT LINES AND DUCTWORK WITH ALL OTHER TRADES.

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

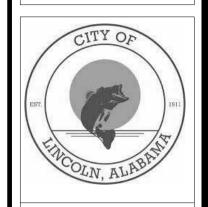
DATE 03-28-2025 RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820-9897

ANNISTON, ALABAMA 36205 WHORTON ENGINEERING PROJECT NO. 23222





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Attn: Lew Watson Bill Whittaker, P.C. 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts

STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER

Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

ISSUE: 03.31.25 BID

24001 **DESCRIPTION:** ATTIC HVAC **PLANS**

M3.2

WHORTON ENGINEERING, INC.

ALL DIFFUSERS/GRILLE RUNOUTS SHALL INCLUDE SPIN-IN WITH DAMPER.

REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

DIMENSIONS. PLENUM BOX SHALL BE 18" DEEP.

REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONNECTION TO BASE BID 8"X10" OUTSIDE AIR DUCT

HVAC - PLUMBING - PROCESS CONTROL Randole Whoston RANDALL WHORTON, P.E.

WITH ALL OTHER TRADES.

DATE 03-28-2025 25 SUMMERALL GATE ROAD

PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205

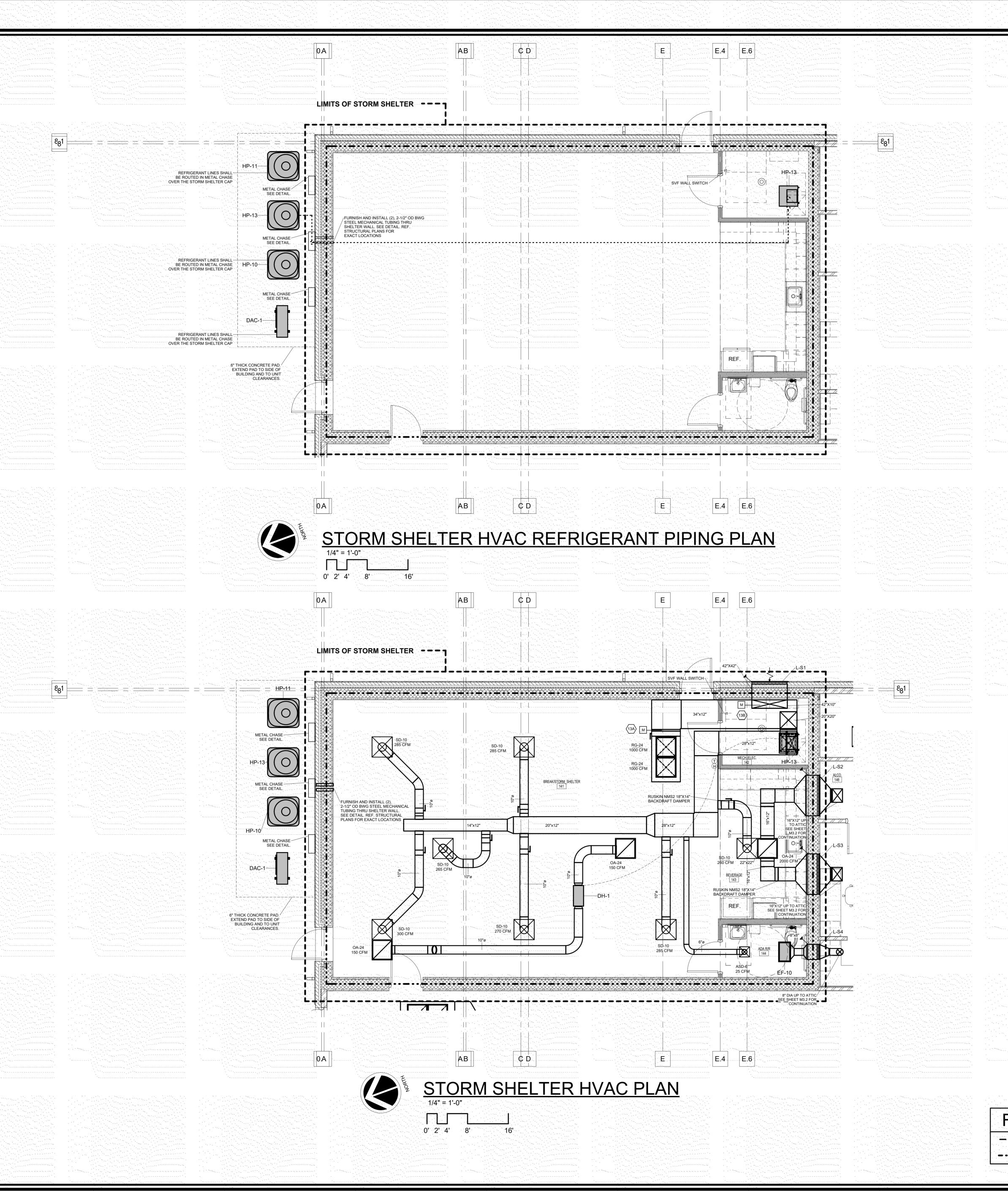
GENERAL NOTES:

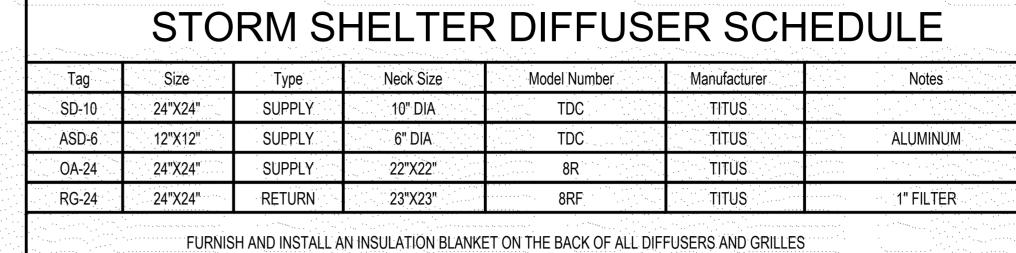
) TEST AND BALANCE IS REQUIRED FOR ALL UNITS, DUCT, GRILLES, ETC. SHOWN ON PLANS.

6) FRESH AIR DAMPERS TO BE 120VAC, NORMALLY CLOSED. THE DAMPER SHALL BE WIRED TO OPEN WHEN ROOM LIGHTS ARE ON AND THE UNIT FAN IS RUNNING. TYPICAL UNLESS OTHERWISE NOTED.

7 MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF REFRIGERANT LINES AND DUCTWORK

WHORTON ENGINEERING PROJECT NO. 23222





GENERAL NOTES: ALL DIFFUSERS/GRILLE RUNOUTS SHALL INCLUDE SPIN-IN WITH DAMPER. ALL OUTSIDE AIR RUNOUTS, EXHAUST, ETC. AND BRANCH DUCTS SHALL INCLUDE SPIN-IN WITH DAMPE REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. TEST AND BALANCE IS REQUIRED FOR ALL UNITS, DUCT, GRILLES, ETC. SHOWN ON PLANS. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL LOUVERS SHALL HAVE A PLENUM BOX. PLENUM BOX SHALL BE SIZED TO MATCH LOUVER DIMENSIONS. PLENUM BOX SHALL BE 18" DEEP. FRESH AIR DAMPERS TO BE 120VAC, NORMALLY CLOSED. THE DAMPER SHALL BE WIRED TO OPEN WHEN ROOM LIGHTS ARE ON AND THE UNIT FAN IS RUNNING. TYPICAL UNLESS OTHERWISE NOTED.

STORM SHELTER CONTROL/BALANCING DAMPER NOTES:

MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF REFRIGERANT LINES AND DUCTWORK

WITH ALL OTHER TRADES.

MOTORIZED LOW-LEAKAGE CONTROL DAMPER, NORMALLY OPEN, COORDINATE WITH ELECTRICAL.

* UNOCCUPIED MODE: DAMPER SHALL BE OPEN.

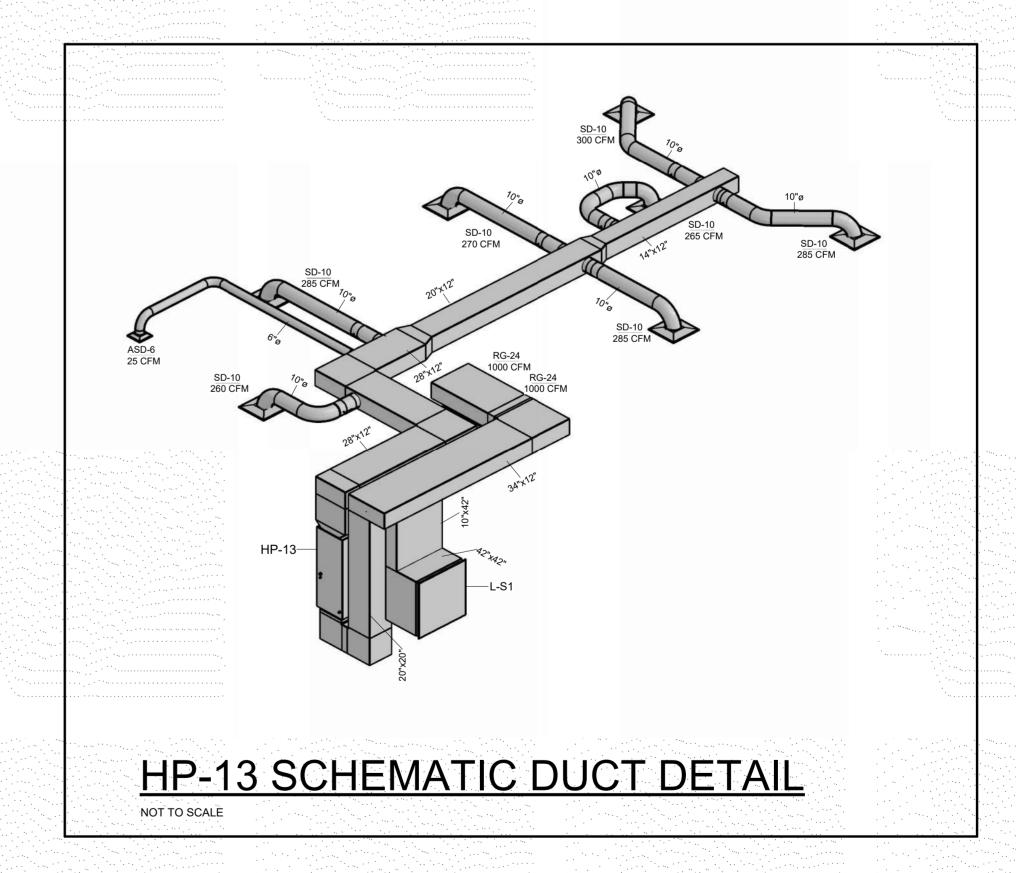
* OCCUPIED MODE: DAMPER SHALL BE OPEN.

"ON" POSITION.

3B) MOTORIZED LOW-LEAKAGE CONTROL DAMPER, MODULATING, COORDINATE WITH ELECTRICAL.

* OCCUPIED MODE: WHEN ROOM LIGHTS ARE "ON", DAMPER SHALL MODULATE OPEN TO A POSITION AS REQUIRED FOR MINIMUM OUTSIDE AIR FLOW PER THE UNIT SCHEDULE. POSITION IS TO BE SET DURING TEST AND BALANCE.

NOTE: PROVIDE SIGNAGE AT SHELTER VENTILATION FAN SWITCH WITH OPERATING INSTRUCTIONS
FOR STORM MODE WITH POWER OUTAGE. REFERENCE ARCHITECTURAL FOR SIGNAGE SPECIFICATIONS



FIREWALL LEGEND

ONE HOUR RATED FIRE BARRIER

TWO HOUR RATED FIRE BARRIER

WHORTON ENGINEERING, INC.

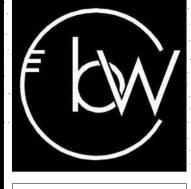
HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.

E. DATE 03-28-2025

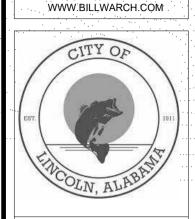
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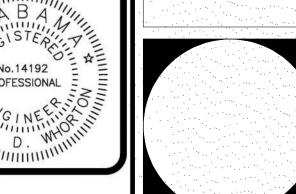
Attn: Tony Dodd

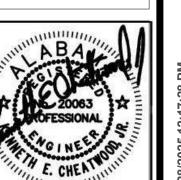
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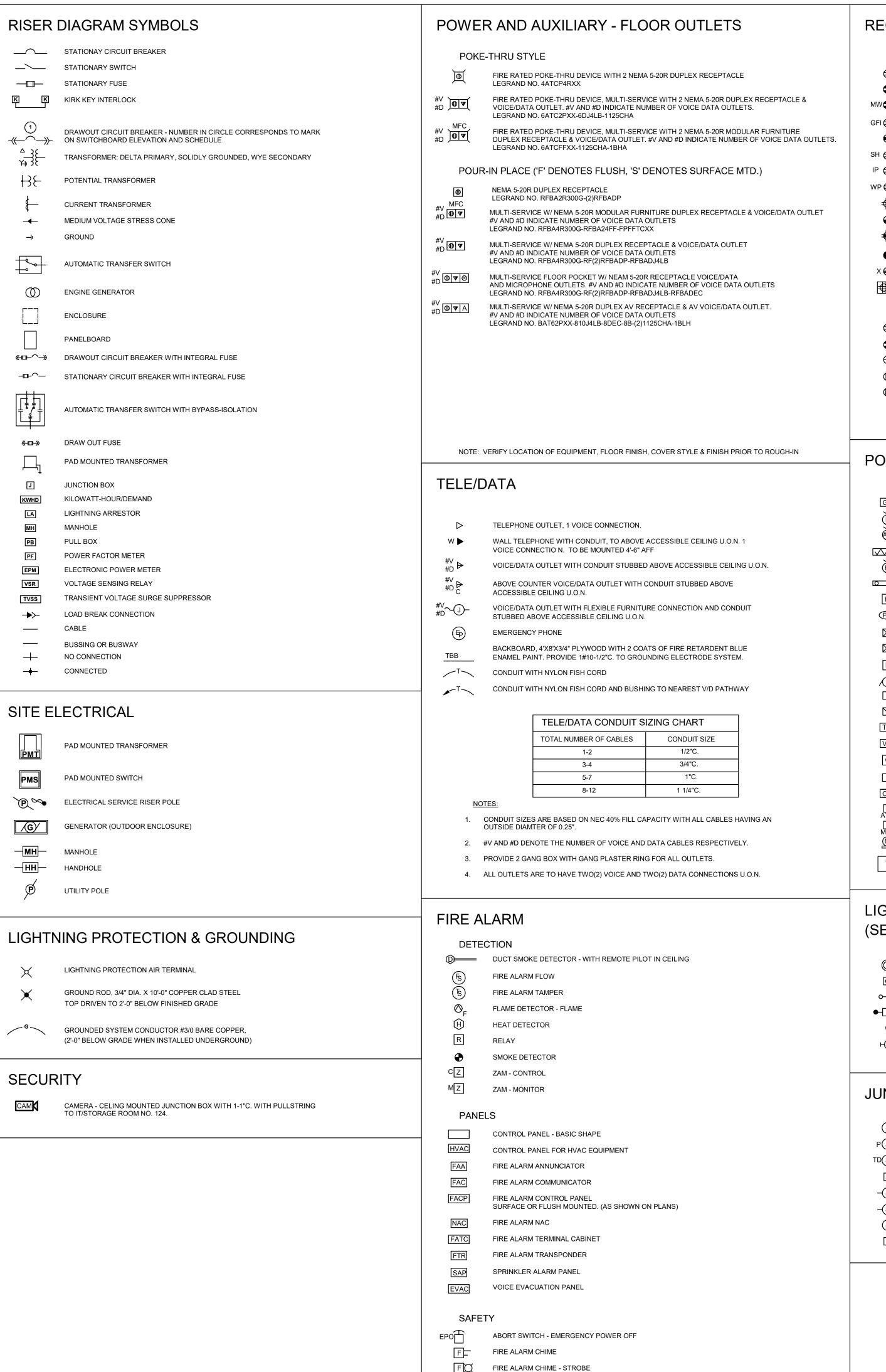
DESCRIPTION: STORM SHELTER HVAC PLANS

SHEET

 $\sqrt{M4}$







FIRE ALARM DOOR HOLDER FIRE ALARM HORN - STROBE

FIRE ALARM MINI HORN FIRE ALARM PULL BOX

FIRE ALARM STROBE

FIREMAN PHONE

REMOTE TEST SWITCH

FIRE ALARM SPEAKER - CEILING

FIRE ALARM STROBE - CEILING

REMOTE MIC FOR EVACUATION

FIRE ALARM - COMBINATION SPEAKER AND STROBE. 87DB MIN.

RECEPTACLES WALL MOUNTED DUPLEX RECEPTACLE - NEMA 5-20R DUPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT DUPLEX RECEPTACLE FOR MICROWAVE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT COORDINATE HEIGHT WITH ARCHITECTURAL ELEVATION GROUND FAULT RECEPTACLE - NEMA 5-20R GF RECEPTACLE MTD. ABOVE COUNTER, NEMA 5-20R DULEX RECEPTACLE - NEMA-5-20R, SHALLOW BOX DULEX RECEPTACLE - NEMA-5-20R, IPAD MOUNT COORDINATE HEIGHT WITH ARCHITECT WP **←** WEATHER PROOF RECEPTACLE - NEMA 5-20R GF W/ EXTRA DUTY WET LOCATION COVER QUADRUPLEX RECEPTACLE - NEMA 5-20R SIMPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT QUADRUPLEX RECEPTACLE - MTD. ABOVE COUNTER, NEMA 5-20R SINGLE RECEPTACLE - A:NEMA 5-30R, B:NEMA 6-30R, C:NEMA 14-30R SINGLE RECEPTACLE - A:NEMA 5-50R, B:NEMA 6-50R, C:NEMA 14-50R MULTI-SERVICE WALL RECEPTACLE CEILING MOUNTED DUPLEX RECEPTACLE - NEMA 5-20R DUPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT SIMPLEX RECEPTACLE - NEMA 5-20R SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION SINGLE RECEPTACLE - SPECIAL PURPOSE POWER GENERATOR ALARM / ANNUNCIATOR PANEL FAN / FAN-COIL UNIT PACKAGED AIR CONDITIONING UNIT ELECTRIC DUCT HEATER UNIT HEATER WITH FAN ELECTRIC BASEBOARD HEATER ELECTRIC CABINET HEATER PHOTO-ELECTRIC / PHOTOCELL SWITCH MAGNETIC MOTOR STARTER COMBINATION MAGNETIC STARTER & DISCONNECT SWITCH \mathcal{O}' ELECTRIC MOTOR DISCONNECT SWITCH, UNFUSED, 30A, 3P UNLESS OTHERWISE NOTED DISCONNECT SWITCH, FUSED, 30A, 3P UNLESS OTHERWISE NOTED VARIABLE SPEED / VARIABLE FREQUENCY DRIVE CONTACTOR CIRCUIT BREAKER, INDIVIDUALLY ENCLOSED CONTROL PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH METER, WITH SOCKET ASSEMBLY TRANSFORMER, GENERAL PURPOSE DRY-TYPE, REFER TO SCHEDULE LIGHTING - EXTERIOR (SEE LUMINAIRE SCHEDULE) BOLLARD GROUND MOUNTED SPOT, FLOOR OR WELL LIGHT POLE MOUNTED FLOOD LIGHT POLE-ARM MOUNTED AREA LIGHT POLE-TOP MOUNTED AREA LIGHT WALL MOUNTED FLOOD OR AREA LIGHT JUNCTION & OUTLET BOXES JUNCTION BOX - CEILING MOUNTED POWER JUNCTION BOX - CEILING MOUNTED

TELE DATA JUNCTION BOX - CEILING MOUNTED

JUNCTION BOX - FLOOR MOUNTED

JUNCTION BOX - WALL MOUNTED

SURFACE OR PENDANT MOUNTED LUMINAIRE. LIFE SAFTEY EMERGENCY SURFACE MOUNTED WALL WASHING LUMINAIRE. LIFE SAFTEY EMERGENCY EGRESS LIGHTING. WALL WALL MOUNTED LUMINAIRE WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE EXIT SIGN - BACK MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN SEE LUMINAIRE SCHEDULE EXIT SIGN - END MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN SEE LUMINAIRE SCHEDULE WALL MOUNTED FLUORESCENT STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING. WALL MOUNTED LUMINAIRE LIFE SAFETY EMERGENCY EGRESS LIGHTING EMERGENCY EGRESS LIGHT SWITCHES SINGLE POLE SWITCH, 20A, 125/277V THREE WAY SWITCH, 20A, 125/277V FOUR WAY SWITCH, 20A, 125/277V DOUBLE POLE SWITCH, 20A, 125/277V MOMENTARY CONTACT SWITCH, 1-POLE, 20A, 125/277V PILOT LIGHT SWITCH (LIGHT ON WHEN IN 'ON' POSITION) LIGHTED TOGGLE (LIGHT ON WHEN SWITCH IS 'OFF' POSITION) 1-POLE, 20A, 125/277V KEY OPERATED SWITCH, 1-POLE, 20A, 125/277V TIME SWITCH, 1-POLE, 20A, 125/277V LOW VOLTAGE SWITCH MOTOR SWITCH, 1-POLE, 20A, 125/277V NOTES: SEE LIGHTING CONTROL LEGEND FOR ADDITIONAL CONTROLS **BRANCH CIRCUITS** CONCEALED IN CEILING, WALL, OR IN CEILING SLAB CONCEALED IN OR BELOW FLOOR OR UNDERGROUND ---- EXPOSED EMERGENCY RUN IN FLEXIBLE METAL CONDUIT EMPTY CONDUIT, 3/4" UNLESS OTHERWISE NOTED WITH NYLON PULL CORD CONDUIT SEAL FITTING: CROUSE-HINDS #EYS OR APPROVED EQUIVALENT HOMERUN TO PANELBOARD AND 20A, 1P BREAKER, UON. NOTE: SHOWN 2#12 AND 1#12(G) - 1/2"C. ——— 10 ———2#10 AND 1#10(G) - 3/4"C. OUTLET BOX - WALL MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT —— 10 /// 3#10 AND 1#10(G) - 3/4"C. SIZE CONDUIT PER NEC FOR GREATER NUMBER OF OUTLET BOX - CEILING MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND HASHMARKS INDICATE OUTLET BOX - FLOOR MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT NUMBER OF WIRES REQUIRED. GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-95. NUMBER OF HASHMARKS DOES NOT INCLUDE GROUND WIRE. RISER: UP, RUNNING TO SOURCE RISER: DOWN, RUNNING TO SOURCE BRANCH CIRCUIT WIRING FOR LIGHTING IS SHOWN SCHEMATICALLY. EACH LUMINAIRE IS TO BE INSTALLED WITH AN ADDITIONAL FLEXIBLE CONNECTION. REQUIRED INSTALLATION PANELBOARDS LIGHTING PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS RECEPTACLE PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS

RECESSED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING RECESSED WALL WASHER. LIFE SAFETY EMERGENCY EGRESS LIGHTING CEILING - SURFACE/PENDANT SURFACE OR STEM MOUNTED FLUORESCENT STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. SURFACE OR STEM MOUNTED FLUORESCENT LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. SURFACE OR PENDANT MOUNTED LUMINAIRE SURFACE MOUNTED WALL WASHING LUMINAIRE TRACK LIGHT INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION CEILING FAN EXIT SIGN - CEILING MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHWON. SEE LUMINAIRE SCHEDULE. EXIT SIGN - CEILING MOUNTED, SINGLE FACE WITH CHEVRONS AS SHWON. SEE LUMINAIRE SCHEDULE. SURFACE OR STEM MOUNTED FLUORESCENT STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING. SURFACE OR STEM MOUNTED FLUORESCENT STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CONNECTED TO LIFE SAFETY EMERGENCY POWER SYSTEM. TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT AND WIRING AS DIRECTED BY SYSTEM PROVIDE BLANK COVERS FOR ALL UNUSED OUTLETS NEEDED FOR CONTINUITY OF EXISTING CIRCUITS.

LIGHTING (SEE LUMINAIRE SCHEDULE)

RECESSED FLUORESCENT LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS

RECESSED FLUORESCENT LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS

AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

CEILING RECESSED

AS SHOWN

RECESSED LUMINAIRE

RECESSED WALL WASHER

ABBREVIATIONS AMBIENT AIR COOLED AFF ABOVE FINISHED FLOOR AL ALUMINUM AWG AMERICAN WIRE GAUGE CONDUIT RACEWAY COPPER CKTS CIRCUITS DIA DIAMETER ELECTRICAL CONTRACTOR EMERGENC' EXPLOSION PROOF FORCED AIR COOLED FMC FLEXIBLE METAL CONDUIT GROUND MOUNTING HEIGHT TO CENTERLINE HIGH INTENSITY DISCHARGE HORSE POWER KVA KILOVOLT-AMPERES KW KILOWATT

POWER PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS

ELECTRICAL NOTES

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.

CEILING CLEARANCES ARE CRITICAL FOR THE PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.

3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.

4. ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.

5. ALL PANELBOARDS ARE 3PH, 4W UNLESS OTHERWISE NOTED. 6. ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, 3/4" CONDUIT MINIMUM.

7. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE

CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.

8. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. 9. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND

FROM ONE ROOM TO THE OTHER.

10. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.

11. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.

12. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD

GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE. 13. FINAL EQUIPMENT CONNECTIONS - THIS CONTRACTOR IS RESPONSIBLY FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC.,

WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY 14. FURNISH AND INSTALL FIRE ALARM SYSTEM WHICH CONFORMS TO ALL NATIONAL, STATE, AND LOCAL CODES. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT AND WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS

15. IN ALL AREAS TO BE REWORKED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (LIGHT FIXTURES, DEVICES, OUTLETS, ETC.) AND ALL BRANCH CIRCUITS AND FEEDERS NOT REQUIRED FOR CONTINUATION OF EXISTING CIRCUITS TO REMAIN, AND REWORK THE AREA AS SHOWN. ANY CIRCUITS BROKEN BY DEMOLITION FOR THE NEW BUILDING ALTERATIONS SHALL BE REPLACED AS REQUIRED.

16. INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM EXISTING DRAWINGS & SITE SURVEY. PRIOR TO BID, THE ELECTRICAL CONTRACTOR SHALL VISIT SITE TO SURVEY EXISTING CONDITIONS AFFECTING WORK. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING EQUIPMENT TO ALLOW FOR NEW CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER & RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.

OFCI OWNER FURNISHED

OC ON CENTER

PH PHASES

V VOLTS

W WIRES

POLES

PF POWER FACTOR

CONTRACTOR INSTALLED

PVC POLYVINYL CHLORIDE RACEWAY

RGS RIGID GALVANIZED STEEL

UON UNLESS OTHERWISE NOTED

WP WEATHERPROOF, NEMA 3R

EXISTING TO REMAIN

XRR EXISTING, REMOVE AND RELOCATE

XRB EXISTING, REMOVE AND INSTALL BLANK COVER

XRP EXISTING, REMOVE AND REPLACE WITH NEW

XR EXISTING, REMOVE

XRL EXISTING, RELOCATED

17. FOR HOMERUNS ON 20A. CIRCUITS EXCEEDING ONE HUNDRED (100) FEET FROM PANELBOARD

CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED AMPERES INTERRUPTING CAPACITY CFOI CONTRACTOR FURNISHED OWNER INSTALLED OFOI OWNER FURNISHED ATS AUTOMATIC TRANSFER SWITCH OWNER INSTALLED

CTTS CLOSED TRANSITION TRANSFER SWITCH

LIQUID TIGHT FLEXIBLE METAL CONDUIT KCMIL THOUSAND CIRCULAR MILS MEDIUM VOLTAGE NEUTRAL NATIONAL ELECTRIC CODE

NOT IN CONTRACT NL NIGHT LIGHT

DRAWING CONVENTIONS

— NEW WORK ---- EXISTING TO REMAIN XX EXISTING TO REMOVE

Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. Architecture 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Hoover, AL 35242 256-441-2232

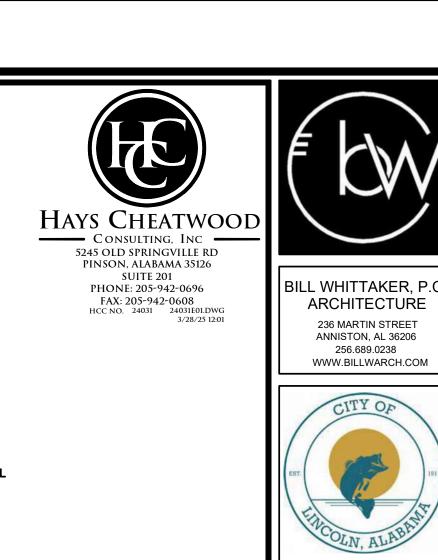
Lincoln, AL 35096

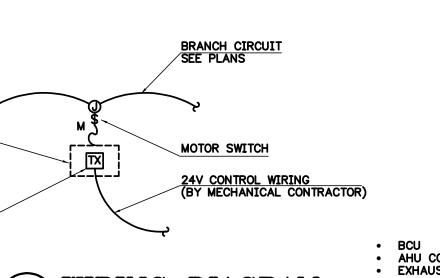
205-763-7777

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03.31.25 BID

24001 ELECTRICAL

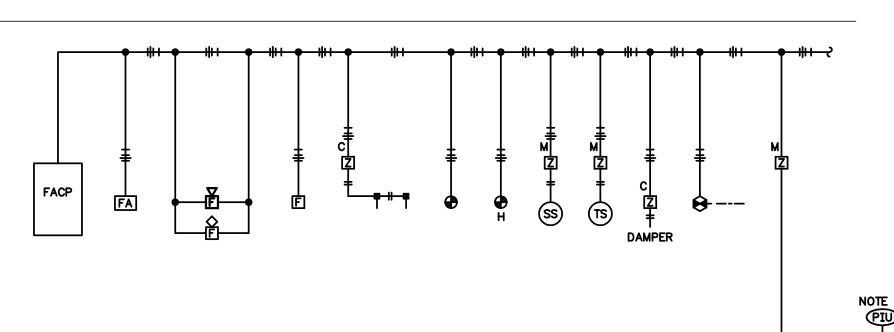




TYPICAL (SEE LIST)
NO SCALE

 BCU
 AHU CONTROLLER
 EXHAUST FAN CONTROLLER
 TYPICAL ROOM DIFFERENTIAL PRESSURE MONITOR
 TYPICAL HEATING COIL CONTROLLER
 TYPICAL BLOWER COIL UNIT CONTROLLER CONTROLLER
TYPICAL FAN COIL UNIT
CONTROLLER TYPICAL COMBINATION FIRE AND SMOKE DAMPERS
MISCELLANEOUS ACTUATORS



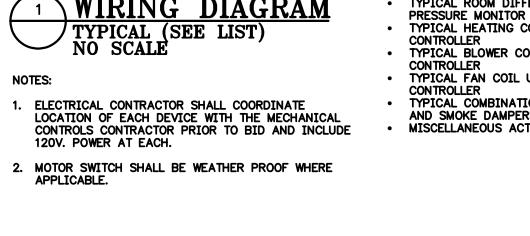


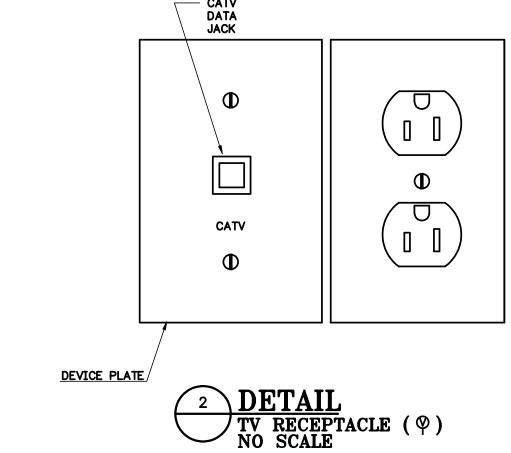


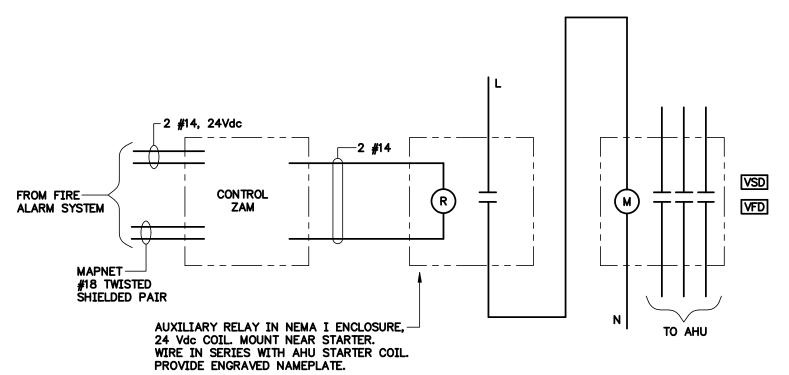
2. NO CONDUIT RUN SHALL EXCEED 100 FEET WITHOUT PULL BOX.

3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

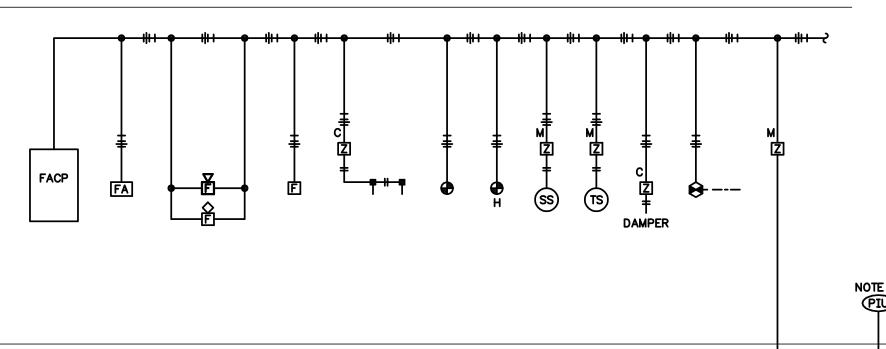
4. ALL FIRE ALARM CONDUIT SHALL BE RED.



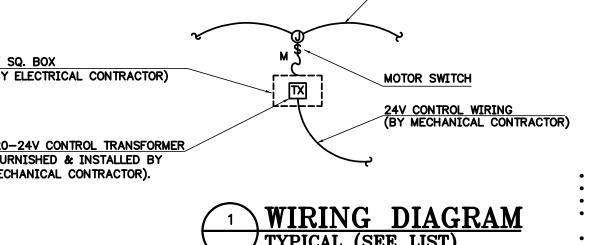




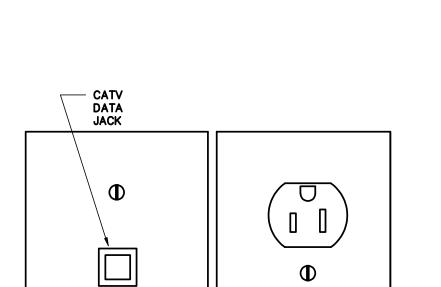








1. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF EACH DEVICE WITH THE MECHANICAL CONTROLS CONTRACTOR PRIOR TO BID AND INCLUDE 120V. POWER AT EACH.

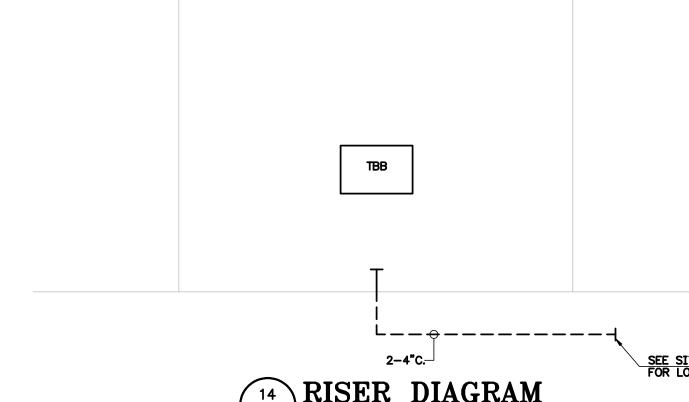


WIRING DIAGRAM
FIRE ALARM SHUTDOWN OF AHU
NO SCALE

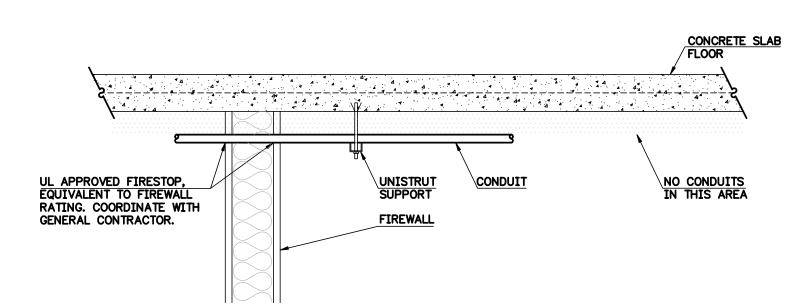


1. ALL FIRE ALARM DETECTION AND ALARM DEVICES ARE NOT SHOWN ON THIS RISER DIAGRAM. REFER TO THE FLOOR PLAN FOR QUANTITIES AND LOCATIONS OF THESE DEVICES. THE RISER DIAGRAM ILLUSTRATES THE GENERAL LAYOUT AND TYPICAL CONNECTIONS.

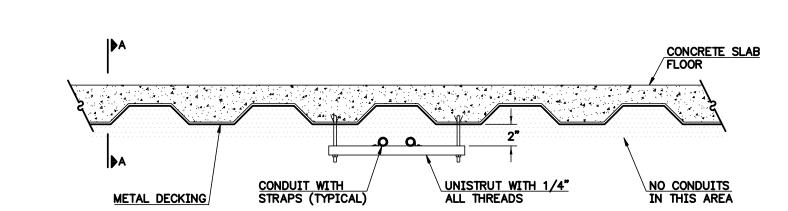
5. COORDINATE PIU LOCATION WITH CIVIL PLANS.



8 DETAIL
BRANCH CIRCUITS AND FEEDERS SHOWN AS "PVC"
NO SCALE



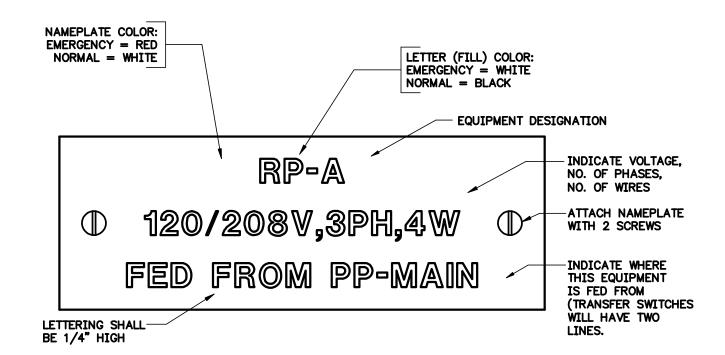
SECTION "A-A"

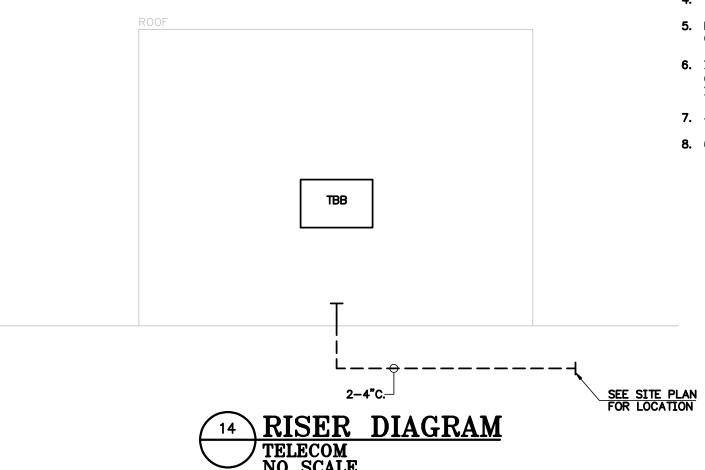


PLAN VIEW

TYPICAL CONDUIT PENETRATION OF FIRE WALL

1. DO NOT INSTALL CONDUIT TIGHT AGAINST DECKING AND MAINTAIN MINIMUM 2" CLEARANCE AT FIREWALL PENETRATION.





MAIN WATER SERVICE -VALVE **GENERATOR** eg------LOOP -------SERVICE ENTRANCE GROUND CONDUCTOR SEE RISER DIAGRAM. 20 FEET BARE TINNED NO. 2 COPPER -IN DIRECT CONTACT WITH EARTH, MINIMUM 2 1/2 FEET BELOW FINISHED GRADE.

1. ALL CONDUCTORS AWG #2/0 BARE TINNED COPPER, UON

DRILLING OF MAIN GROUND POINT

1. ALL GROUND BUSSES TO HAVE SIMILAR BOLT-HOLE PATTERN; LENGTH VARIES.

- #2/0 STR CU GROUND BUS (BARE) TIE AT GROUND BUS

-FINISHED SURFACE OF -

SPARE DUCTS

SECTION A-A

1. COORDINATE EXACT DIMENSIONS AND REQUIREMENTS WITH UTILITY.

2. PAD TO DEVELOP 3000#PSI IN 28 DAYS.

LEGEND OF HOLE DRILLING

A - 7/16"DIA B - 5/16"DIA

PAD FOR POWER CO. TRANSFORMER

PAD MUST BE LEVEL

NOTES:

#2 MECHANICAL #8-#4 COMPRESSION

FINISHED GRADE

3" MINIMUM :

1-1/2"—

CUSTOMER SERVICE ENTRANCE DUCT AREA

__METER CONDUIT

/--1"x45" CHAMFER ALL SIDES.

_3/4"x10'-0" CU. CLAD STEEL GROUND ROD (TYPICAL)

RISER DIAGRAM
TELECOM
NO SCALE

LINCOLN RTMENT ABAMA

NEW CIT POLICE D LINCOLI

City of Lincoln

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MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton

ELECTRICAL ENGINEER

Hays Cheatwood Consulting

P.O. Box 250 Pinson, AL 35126 205-942-0696

Attn: Tony Dodd

03.31.25 BID

ISSUE:

JOB NO. 24001

DESCRIPTION: **ELECTRICAL**

DETAILS

SHEET

ARCHITECT Bill Whittaker, P.C. Architecture

- HAND HOLE - LUMINAIRE STANDARD SEE LUMINAIRE SCHEDULE POLE BASE — BOLT COVER GROUT BENEATH — POLE BASE - #6 BARE COPPER, BOND TO POLE AND BRANCH CIRCUIT GROUND CONDUCTOR. 1"x 45" CHAMFER -ALL SIDES

4" SQ. BOX
(BY ELECTRICAL CONTRACTOR) 120-24V CONTROL TRANSFORMER (FURNISHED & INSTALLED BY MECHANICAL CONTRACTOR).

SEAL CONDUIT CONDUCTOR TO ROD CONDUIT AND CONDUCTORS AS SHOWN **OPENING** ANCHOR BOLTS (4 REQ"D) -FURNISHED WITH POLE. - GROUND ROD
3/4" DIAMETER
x 10'-0" COPPER
CLAD STEEL

3000# REINFORCED CONCRETE — WITH #4 RODS, 12" O.C. VERT. AND #2 HOOPS, 12" O.C. HORIZ.

5 DETAIL
TYPICAL POLE BASE FOR POLE MOUNTED
NO SCALE

--24" DIA--

- INSTALL WITH GROUND SLOT UP. - OUTLET

GROUNDING CONDUCTOR GROUNDING SCREW (TYPICAL) CONDUIT

6 DETAIL
RECEPTACLE INSTALLATION
NO SCALE

● NOTE 4-4" ABOVE COUNTER-

2" ABOVE BACKSPLASH-1. INDICATED MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET BOX, UNLESS OTHERWISE NOTED.

2. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL REQUIREMENTS. 3. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE.

4. VERIFY MOUNTING HEIGHT WITH LOCAL AUTHORITY.

5. FOR CEILING HEIGHTS LESS THAN 86", VISUAL LENS MOUNTING HEIGHT SHALL BE WITHIN 6" OF CEILING.

6. IN SLEEPING ROOMS: 110cd STROBES, 2'-0" MIN. FROM CEILING TO TOP OF LENS FOR WITHIN 16'-0" OF PILLOW. 177cd STROBES CAN BE WITH IN THE 2'-0" MIN. FROM CEILING. THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER.

7. 48" TO TOP OF PULL HANDLE. 8. 6" MIN. (NFPA 72) BELOW FINISHED CEILING.

LIGHTING CONTROLS SYSTEM

- ROOM CONTROLLER, EVO DISTRIBUTED CONTROL PANEL WITH INTEGRATED DIMMING RELAYS, REFER TO DRAWINGS FOR NUMBER OF RELAYS NEEDED, PROVIDE COMPATIBLE WALL STATIONS AND SENSORS AS SHOWN. ILC NO. LLEVO-INT-X
 OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7 TC ROOM CONTROLLER, EVO DISTRIBUTED CONTROL PANEL WITH INTEGRATED TIME CLOCK, PROVIDE COMPATIBLE WALL STATIONS AND SENSORS AS SHOWN. ILC NO. LLEVO-TC OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7
- SM (M) CEILING MOUNTED DUAL TECHNOLOGY SENSOR, SMALL MOTION, 360°, LOW VOLTAGE SENSORWORX NO. SWX-221-1 OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7
- CEILING MOUNTED DUAL TECHNOLOGY SENSOR, LARGE MOTION, 360°, LOW VOLTAGE SENSORWORX NO. SWX-222-1

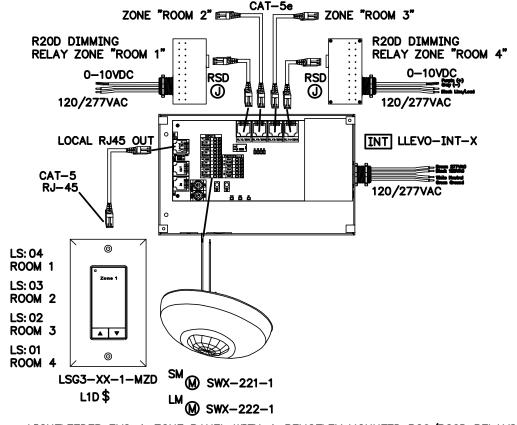
OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7

- WALL MOUNTED ONE BUTTON DIGITAL SWITCH FOR USE WITH ROOM CONTROLLER (INT2/TC) COLORS TO BE SELECTED BY ARCHITECT. ILC NO. LSG3-XX-1 OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7
- WALL MOUNTED SINGLE BUTTON DIGITAL SWITCH FOR USE WITH ROOM CONTROLLER (INT2/TC) 0-10V DIMMING FOR SINGLE ZONE. COLORS TO BE SELECTED BY ARCHITECT. ILC NO. LSG3-XX-1-MZD
- OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7 WALL MOUNTED TWO BUTTON DIGITAL SWITCH FOR USE WITH ROOM CONTROLLER (INT2/TC) 0-10V DIMMING FOR TWO ZONES. COLORS TO BE SELECTED BY ARCHITECT.
- WALL MOUNTED FOUR BUTTON DIGITAL SWITCH FOR USE WITH ROOM CONTROLLER (INT2/TC) 0-10V DIMMING FOR FOUR ZONES. COLORS TO BE SELECTED BY ARCHITECT. ILC NO. LSG3-XX-4-MZD OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7
- WALL MOUNTED DUAL TECHNOLOGY, SINGLE RELAY, AUTO ON COLORS TO BE SELECTED BY ARCHITECT. SENSORWORX NO. SWX-121-XX OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7

ILC NO. LSG3-XX-2-MZD
OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7

- WALL MOUNTED PASSIVE INFRARED TECHNOLOGY, 0-10V DIMMING, SINGLE RELAY SENSORWORX NO. SWX-123-D-XX OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7
- REMOTE DIMMING RELAY WITH 0-10V, LED LOADS TO 20A

ILC NO. R20D OR A PRIOR APPROVED EQUIVALENT, SEE NOTE 7



LIGHTLEEDER EVO 4-ZONE PANEL WITH 4-REMOTLEY MOUNTED R20/R20D RELAYS

5 WIRING DIAGRAM TYPICAL ROOM CONTROLER WITH MULTIPLE ROOMS NO SCALE

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. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THESE PLANS ARE DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL 1" BLACK TEXT THAT READS "INT" GLUED ON CEILING GRID UNDER ROOM CONTROLLER FOR EACH LOCATION FOR MAINTENANCE.

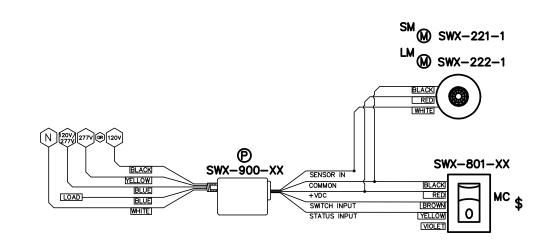
LIGHTING CONTROL NOTES

- 1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION 2. CEILING MOUNTED SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC
- 3. FIELD VERIFY PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF
- CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT. 4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER

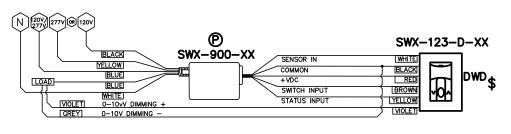
SUPPLY/RETURN VENTS.

- A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.

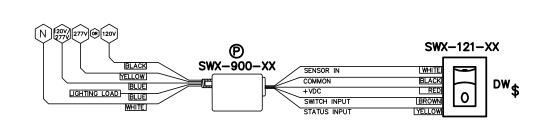
 B. EACH POWER PACK CAN SUPPLY UP TO 150mA. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK. C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
- 5. SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD. 6. THE LIGHTING CONTROL SYSTEM MANUFACTURER SHALL PROVIDE SHOP DRAWINGS AND FACTORY ONSITE STARTUP. SHOP DRAWINGS SHALL INCLUDE DETAILED CUTSHEETS, WIRING DIAGRAMS AND SCALED DRAWINGS WITH DEVICE LOCATIONS.
- APPROVED EQUIVALENT MANUFACTURERS FOR OCCUPANCY SENSORS AND LOW VOLTAGE LIGHTING CONTROLS ARE ILC AND HUBBELL. ALL LUMINAIRES AND LIGHTING CONTROLS THAT ARE NOT SPECIFIED MUST BE SUBMITTED FOR PRIOR APPROVAL 10 DAYS PRIOR TO BID. LUMINAIRE AND LIGHTING CONTROLS THAT ARE THEN PRIOR APPROVED WILL BE ADDED AS AN ADDENDUM ITEM. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW A COPY OF THE ADDENDUM TO VERIFY IF SUBMITTED ITEMS
- 8. PROVIDE LOW VOLTAGE CABLING FROM 0-10V DIMMER SWITCH TO EACH LUMINAIRE AS REQUIRED TO ACCOMPLISH 0-10V DIMMING.
- 9. COORDINATE WITH POWER PLANS FOR RECEPTACLE ROOM CONTROLLERS REQUIRED FOR PLUG LOAD CONTROL.
- 10. LIGHTING CONTROL PANELS SHALL BE NETWORKED TOGETHER, PROVIDE ALL PARTS FOR COMPLETE FUNCTIONING NETWORKED SYSTEM. PROVIDE RELAYS AND BARRIERS AS REQUIRED FOR UL924 EMERGENCY LIGHTING CIRCUITS AS INDICATED.



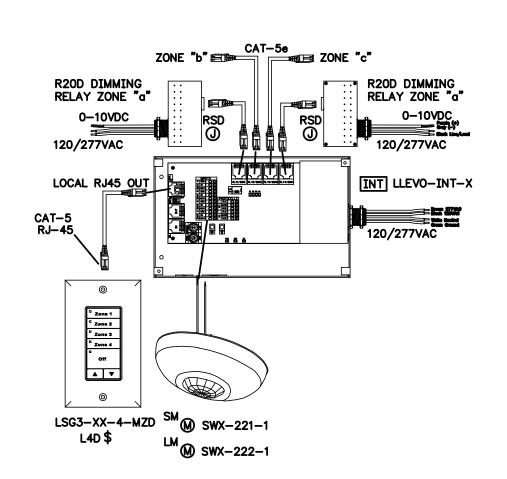
1 WIRING DIAGRAM TYPICAL MANUAL ON VACANCY CONTROL NO SCALE



² WIRING DIAGRAM TYPICAL MANUAL ON DIMMING VACANCY CONTROL



3 WIRING DIAGRAM TYPICAL MANUAL ON VACANCY CONTROL NO SCALE



4 WIRING DIAGRAM TYPICAL ROOM CONTROLER WITH MULTIPLE ZONES NO SCALE

. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THESE PLANS ARE DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL 1" BLACK TEXT THAT READS "INT" GLUED ON CEILING GRID UNDER ROOM CONTROLLER FOR EACH LOCATION FOR MAINTENANCE.

LUMINAIRE SCHEDULE

| | | | | | LUMINAIRE SC | HEDULE | |
|-------|----------------|-----|------|---------|--|--------------|---|
| MARK | | LED | | VOLTS | DESCRIPTION | MANUFACTURER | CATALOG NUMBER |
| | LUMENS 2000 | | 3500 | MVOLT | SURFACE MOUNTED LED STRIP, 2'-0" LENGTH | COOPER | 2SNLED-LD5-41SL-LW-UNV-L835-CD-1-U |
| LL | 2000 | | | III VOL | SON ACE MOONIED EED SINIF, 2-0 EENGIN | OGGI EIX | 23/1225 253 4152 211 3/17 2555 35 1 3 |
| L4 | 4000 | 40 | 3500 | MVOLT | SURFACE MOUNTED LED STRIP, 4'-0" LENGTH | COOPER | 4SNLED-LD5-41SL-LW-UNV-L835-CD-1-U |
| L4E | 4000 | 40 | 3500 | MVOLT | SURFACE MOUNTED LED STRIP, 4'-0" LENGTH, PROVIDE WITH 90 MIN BATTERY BACKUP | COOPER | 4SNLED-LD5-41SL-LW-UNV-EL7W-L835-CD1-U |
| L20 | 2000 | 20 | 3500 | MVOLT | RECESSED DOWNLIGHT, 6" DIAMETER | COOPER | HC6-20-D010-HM6-0525-835-61-MD-C |
| L20E | 2000 | 20 | 3500 | MVOLT | RECESSED DOWNLIGHT, 6" DIAMETER, PROVIDE WITH 90 MIN BATTERY BACKUP | COOPER | HC6-20-D010-HM6-0525-835-61-MD-C-IEM7 |
| L30 | 3000 | 20 | 3500 | MVOLT | RECESSED DOWNLIGHT, 6" DIAMETER | COOPER | HC6-30-D010-HM6-3040-835-61-MD-C |
| L30E | 3000 | 20 | 3500 | MVOLT | RECESSED DOWNLIGHT, 6" DIAMETER, PROVIDE WITH 90 MIN BATTERY BACKUP | COOPER | HC6-30-D010-HM6-3040-835-61-MD-C-IEM7 |
| LG33 | 3300 | 47 | 3500 | MVOLT | RECESSED LED BRIDGE LUMINAIRE, 2'x2', LAY IN | COOPER | BRG-WS-4-L35-LD2-UNV-22-T1-STD- |
| LG33E | 3300 | 47 | 3500 | MVOLT | RECESSED LED BRIDGE LUMINAIRE, 2'x2', LAY IN, PROVIDE WITH 90 MIN BATTERY BACKUP. | COOPER | BRGBRG-WS-4-L35-LD2-UNV-22-T1-STD-EL14W |
| LG40 | 5000 | 47 | 3500 | MVOLT | RECESSED LED BRIDGE LUMINAIRE, 2'x4', LAY IN | COOPER | BRG-WS-3-L35-LD2-UNV-24-T1-STD |
| LG40E | 5000 | 47 | 3500 | MVOLT | RECESSED LED BRIDGE LUMINAIRE, 2'x4', LAY IN, PROVIDE WITH 90 MIN BATTERY BACKUP. | COOPER | BRG-WS-3L35-LD2-UNV-24-T1-STD-EL7W |
| LG40T | 5000 | 47 | 3500 | MVOLT | RECESSED LED BRIDGE LUMINAIRE, 2'x4', LAY IN, PROVIDE WITH BODINE TRANSFER SWITCH | COOPER | BRG-WS-3L35-LD2-120-24-T1-STD-GTD2 |
| P1-3 | 31000 | 258 | 4000 | 480 | POLE MOUNTED SINGLE HEAD AREA LUMINAIRE, TYPE 3 DISTRIBUTION, 30'-0" STRAIGHT STEEL POLE. | COOPER | GALN-SA4-C-740-208-T3-BPC |
| P1-4 | 31000 | 258 | 4000 | 480 | POLE MOUNTED SINGLE HEAD AREA LUMINAIRE, TYPE 4 WIDE DISTRIBUTION, 30'-0" STRAIGHT STEEL POLE. | COOPER | GALN-SA4-C-740-208-T4W-BPC |
| P1-5 | 31000 | 258 | 4000 | 480 | POLE MOUNTED SINGLE HEAD AREA LUMINAIRE, TYPE 5 WIDE DISTRIBUTION, 30'-0" STRAIGHT STEEL POLE. | COOPER | GALN-SA4-C-740-208-5WQ-BPC |
| PD1 | 750 PER FT | 44 | 3500 | MVOLT | PENDANT MOUNTED LED RING, 4'-0" DIAMETER | LUMENWERX | CURVMRIP-DI-4FT-HLO-HLO-SW-90CRI-350-35K-UNV-RD1-1C-POC-XX-SC-XX-XX |
| SL | 2000 | 20 | 3500 | MVOLT | RECESSED LED SHOWER DOWNLIGHT, 6" DIAMATER, DEAD FRONT CONSTRUCTION. | COOPER | HC4-20-D010-HB128APK-HM4-0525-835-41PS-MD-W |
| WP1E | 9 | 37 | 4000 | MVOLT | WALL MOUNTED LED AREA LUMINAIRE, TYPE 4 DISTRIBUTION, PROVIDE WITH 90 MIN BATTERY BACKUP. | NLS | NV-W-T4-16-40K-UNV-WM-BRZ |
| XA | 9 | • | • | MVOLT | CEILING MOUNTED SINGLE FACE EXIT SIGN, RED LETTERS, PROVIDE WITH 90 MIN BATTERY BACKUP. | BARRON | VEX-U-BP-WB |
| XB | 9 | • | • | MVOLT | CEILING MOUNTED DOUBLE FACE EXIT SIGN, RED LETTERS, PROVIDE WITH 90 MIN BATTERY BACKUP. | BARRON | VEX-U-BP-WB |
| | | | | | | | |

LUMINAIRE SCHEDULE NOTES

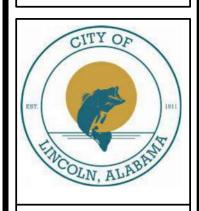
- 1. PREAPPROVED EQUIVALENT MEANS ALL REQUESTS FOR APPROVAL OF MANUFACTURER'S EQUIPMENT NOT SPECIFIED IN THE LUMINAIRE SCHEDULE MUST BE RECEIVED BY THE ENGINEER TEN (10) BUSINESS DAYS PRIOR TO BID.
- 2. EXIT LIGHTS SHALL BE PROVIDED WITH COLOR OF LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS AND REQUIRED.
- 3. FURNISH PLASTER FRAMES FOR ALL RECESSED LUMINAIRES IN PLASTER CEILINGS.
- 4. CONTRACTOR SHALL VERIFY EXACT TYPE CEILINGS BEING FURNISHED AND SUPPLY BASIC LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION FOR CEILING TO BE FURNISHED.
- 5. PROVIDE DEVICES FOR SECURING LUMINAIRE TO CEILING GRID TO COMPLY WITH SECTION 410.36B OF THE 2020 NATIONAL ELECTRICAL CODE FOR ALL LAY-IN TYPE LUMINAIRES. BENT TAB TYPE IS NOT ACCEPTABLE. IN ADDITION, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING CEILING GRID
- 5.1. ONE AT EACH CORNER OF 2X4
 5.2. ONE AT DIAGONAL CORNER OF 2X2
- 6. EPA RATING OF ALL POLE MOUNTED LUMINAIRE SHALL MEET CURRENT IBC REQUIREMENTS FOR THIS
- 7. ALL LUMINAIRES AND BALLAST/DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.
- 8. ALL EMERGENCY AND EXIT LIGHTS PROVIDED WITH BATTERY BACKUP WILL BE CONNECTED TO UNSWITCHED HOT LEG SO THAT BATTERY OPERATES UPON POWER FAILURE.
- 9. TO ENSURE PROPER COORDINATION AND LONG TERM SUPPORT FOR THE OWNER, ALL LIGHTING LUMINAIRES SHALL BE PURCHASED THROUGH MANUFACTURER'S REPRESENTATIVES AND DISTRIBUTORS LOCATED WITHIN SIXTY (60) MILES OF THE PROJECT SITE. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON-COMPLIANCE WITH THIS REQUIREMENT.



HCC NO. 24031 24031E01.DWG 3/28/25 12:01



BILL WHITTAKER, P.C ARCHITECTURE 236 MARTIN STREET ANNISTON, AL 36206 256.689.0238



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205-942-0696

Attn: Tony Dodd

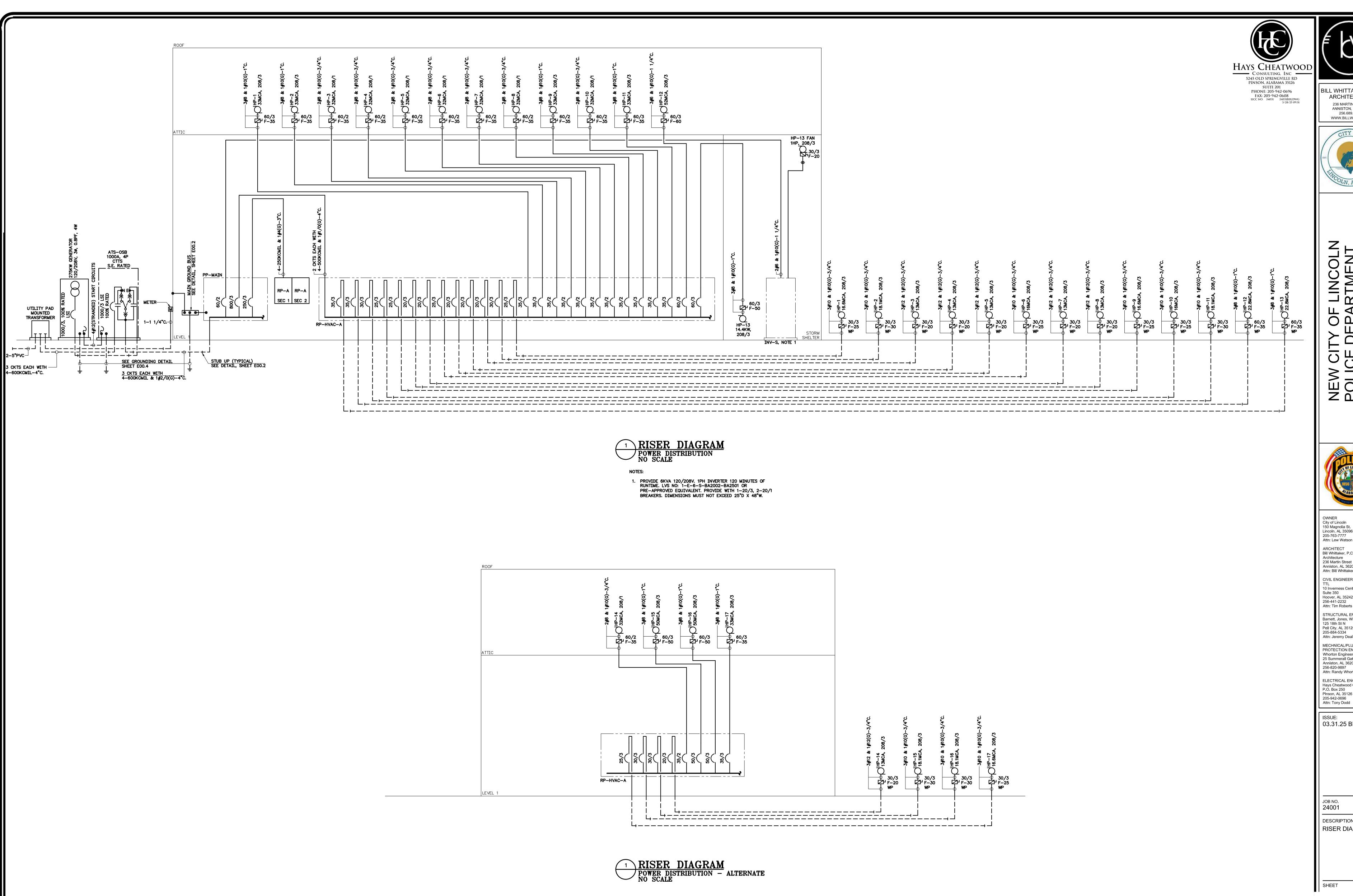
JOB NO.

24001 **DESCRIPTION: LUMINAIRE** SCHEDULE & LIGHTING

SHEET



| L4 | 4000 | 40 | 3500 | Ī |
|------|------|----|------|----------|
| L4E | 4000 | 40 | 3500 | |
| L20 | 2000 | 20 | 3500 | |
| L20E | 2000 | 20 | 3500 | |
| L30 | 3000 | 20 | 3500 | <u> </u> |
| L30E | 3000 | 20 | 3500 | |
| 1077 | 7700 | 47 | 7500 | |





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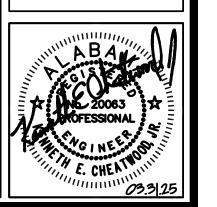


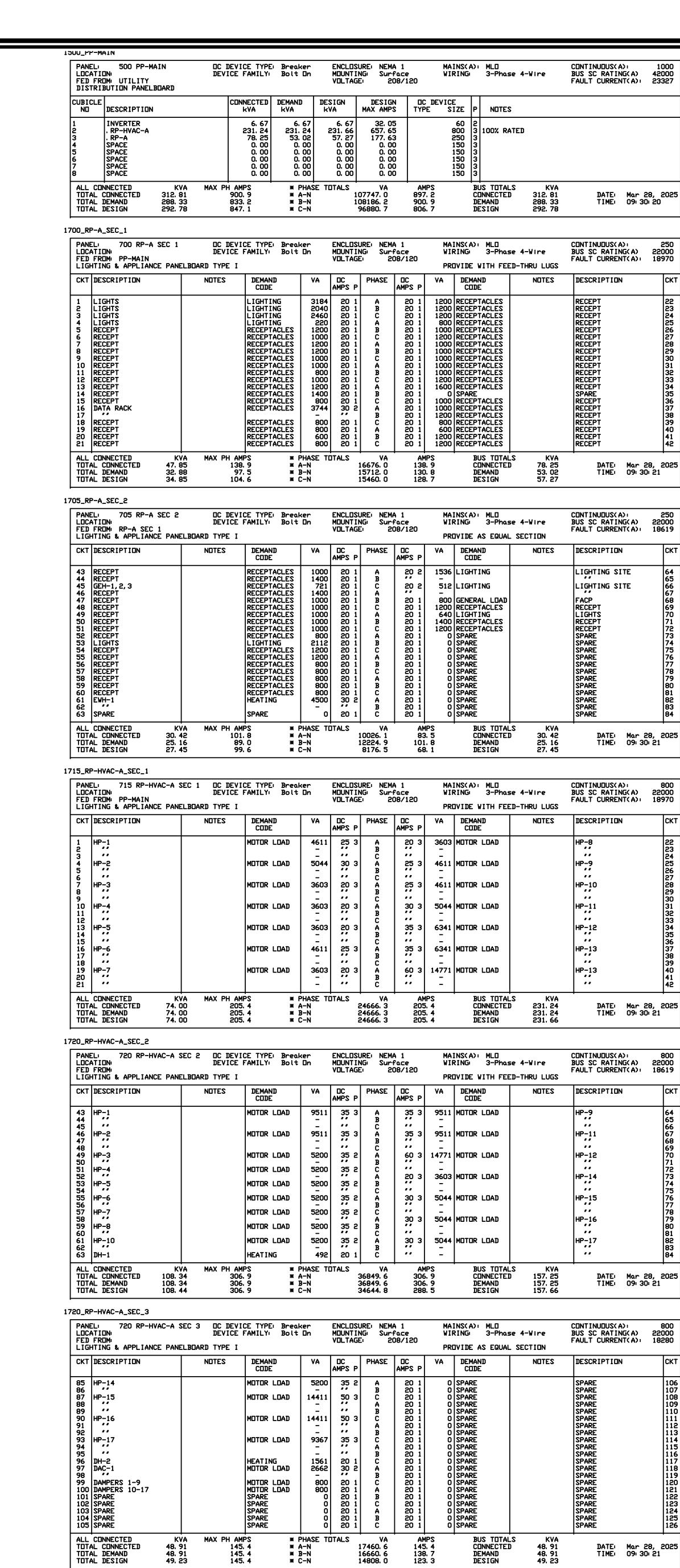
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Hoover, AL 35242
256-441-2232
Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton ELECTRICAL ENGINEER Hays Cheatwood Consulting P.O. Box 250 Pinson, AL 35126 205-942-0696

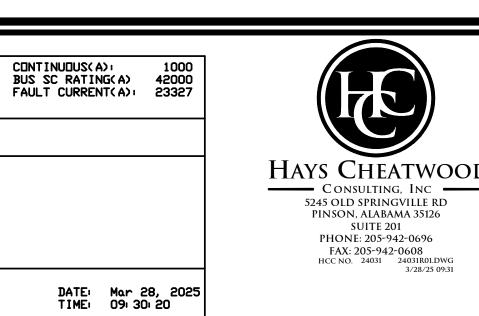
03.31.25 BID

JOB NO. 24001

DESCRIPTION: RISER DIAGRAM



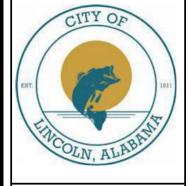




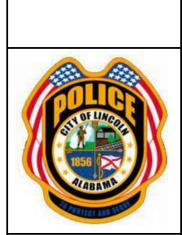


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OF LINCOLN PARTMENT ALABAMA



NEW CITY (POLICE DEFINATION POLICE DEFINATION)

City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT Bill Whittaker, P.C. 236 Martin Street Anniston, AL 36206 Attn: Bill Whittaker CIVIL ENGINEER 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334

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Attn: Tony Dodd

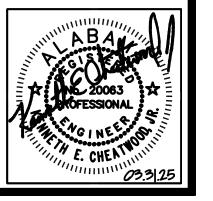
03.31.25 BID

JOB NO. **24001**

DESCRIPTION:
PANELBOARD
SCHEDULES

SHEET

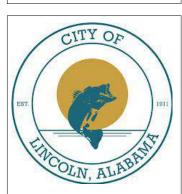
E00.5











NEW CITY POLICE D



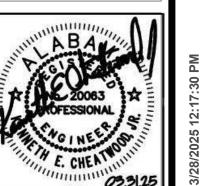
OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT
Bill Whittaker, P.C.
Architecture
236 Martin Street
Anniston, AL 36206
Attn: Bill Whittaker

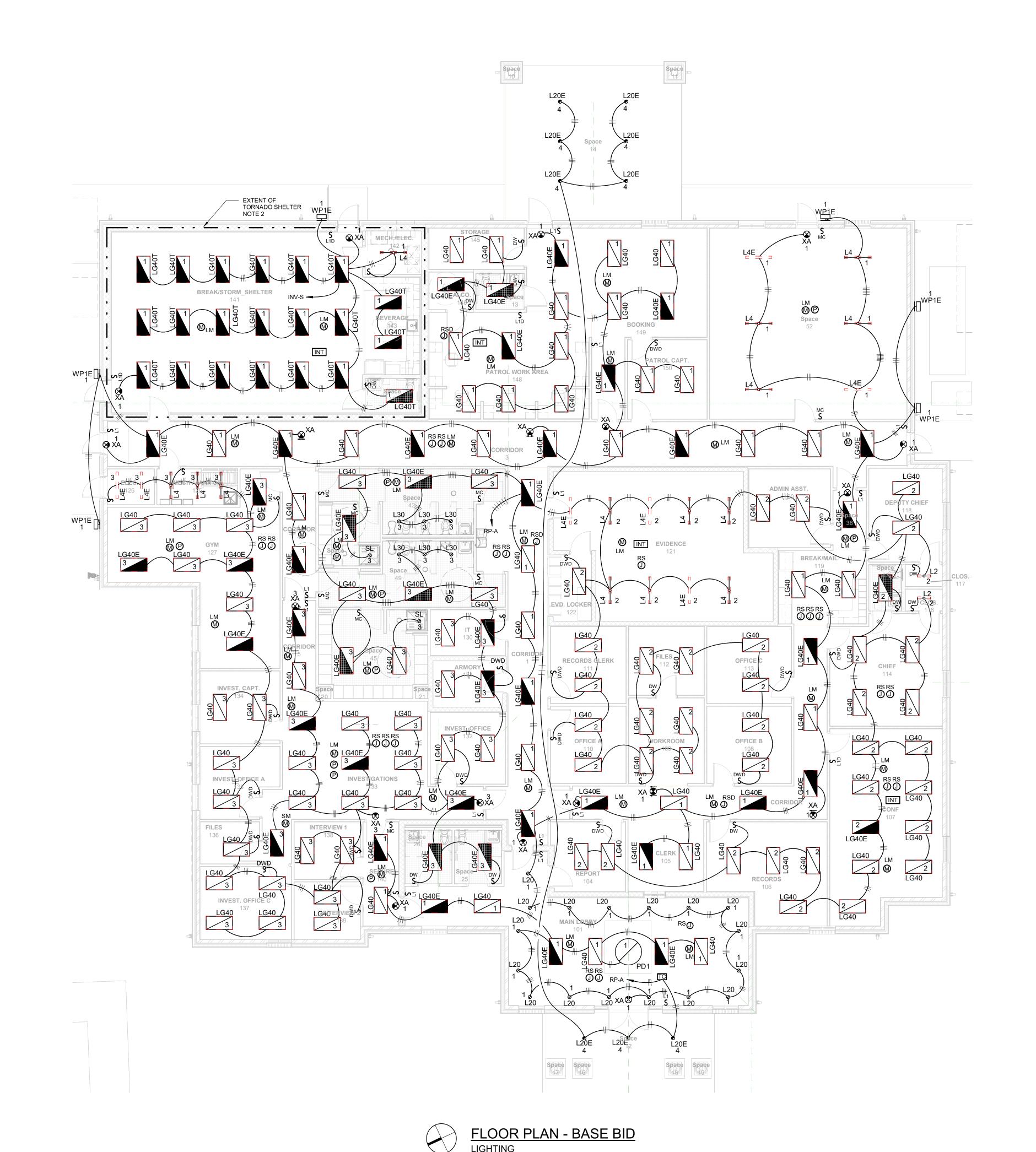
CIVIL ENGINEER TTL 11L 10 Inverness Center Pkwy Suite 350 Hoover, AL 35242 256-441-2232 Attn: Tim Roberts

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Hays Cheatwood Consulting
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Pinson, AL 35126
205-942-0696
Attn: Tony Dodd ISSUE: 03.31.25 BID

24001 DESCRIPTION: FLOOR PLAN -LIGHTING





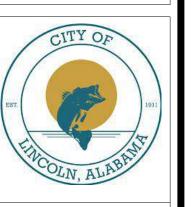
1. THERE SHALL BE NO PENETRATIONS LARGER THAN 2" INTO THE EXTENT OF THE TORNADO SHELTER, PER ICC 309.1.

2. CONTRACTOR SHALL INSTALL ALL CONDUITS ENTERING OR EXITING THE STORM SHELTER UNDERGROUND SO THAT THEY DO NOT PENETRATE STORM SHELTER WALLS OR CEILINGS TO THE GREATEST EXTENT POSSIBLE. ANY PENETRATIONS(S) REQUIRED IN THE STORM SHELTER SHALL BE LESS THAN 2" AND SHALL CONFORM

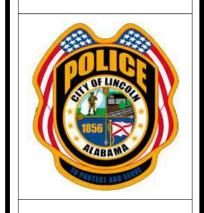




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NEW CITY POLICE D



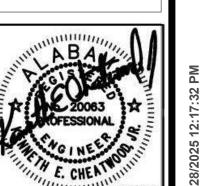
OWNER City of Lincoln 150 Magnolia St. Lincoln, AL 35096 205-763-7777 Attn: Lew Watson ARCHITECT
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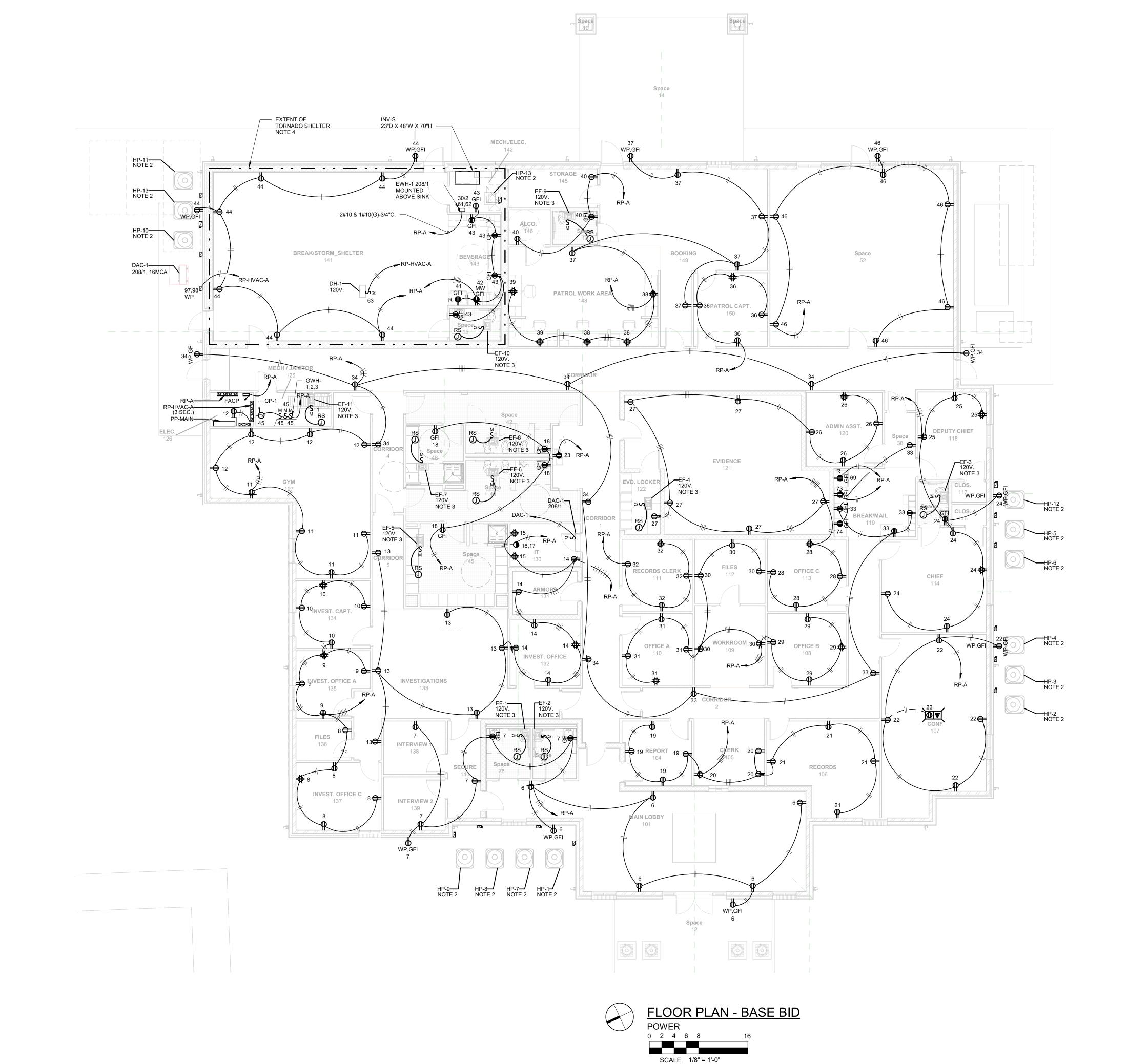
STRUCTURAL ENGINEER Barnett, Jones, Wilson 125 18th St N Pell City, AL 35125 205-884-5334 Attn: Jeremy Deal MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER Whorton Engineering, Inc. 25 Summerall Gate Road Anniston, AL 36205 256-820-9897 Attn: Randy Whorton

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Pinson, AL 35126
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Attn: Tony Dodd ISSUE:

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24001 DESCRIPTION: FLOOR PLAN -POWER





TO ICC 500.

2. REFER TO SHEET E00.4 FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS.

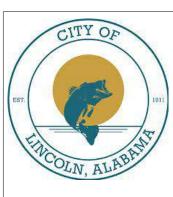
3. EXHAUST FAN TO BE CONNECTED AND CONTROLED BY LIGHTING CONTROLS.

4. CONTRACTOR SHALL INSTALL ALL CONDUITS ENTERING OR EXITING THE STORM SHELTER UNDERGROUND SO THAT THEY DO NOT PENETRATE STORM SHELTER WALLS OR CEILINGS TO THE GREATEST EXTENT POSSIBLE. ANY PENETRATIONS(S) REQUIRED IN THE STORM SHELTER SHALL BE LESS THAN 2" AND SHALL CONFORM

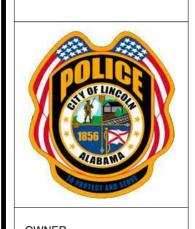








NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA



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ISSUE:
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JOB NO.
24001

DESCRIPTION:
FLOOR PLAN AUXILIARY

F10

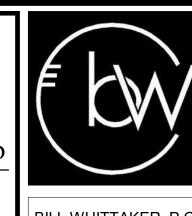
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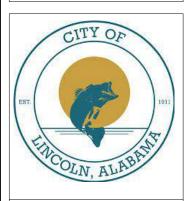






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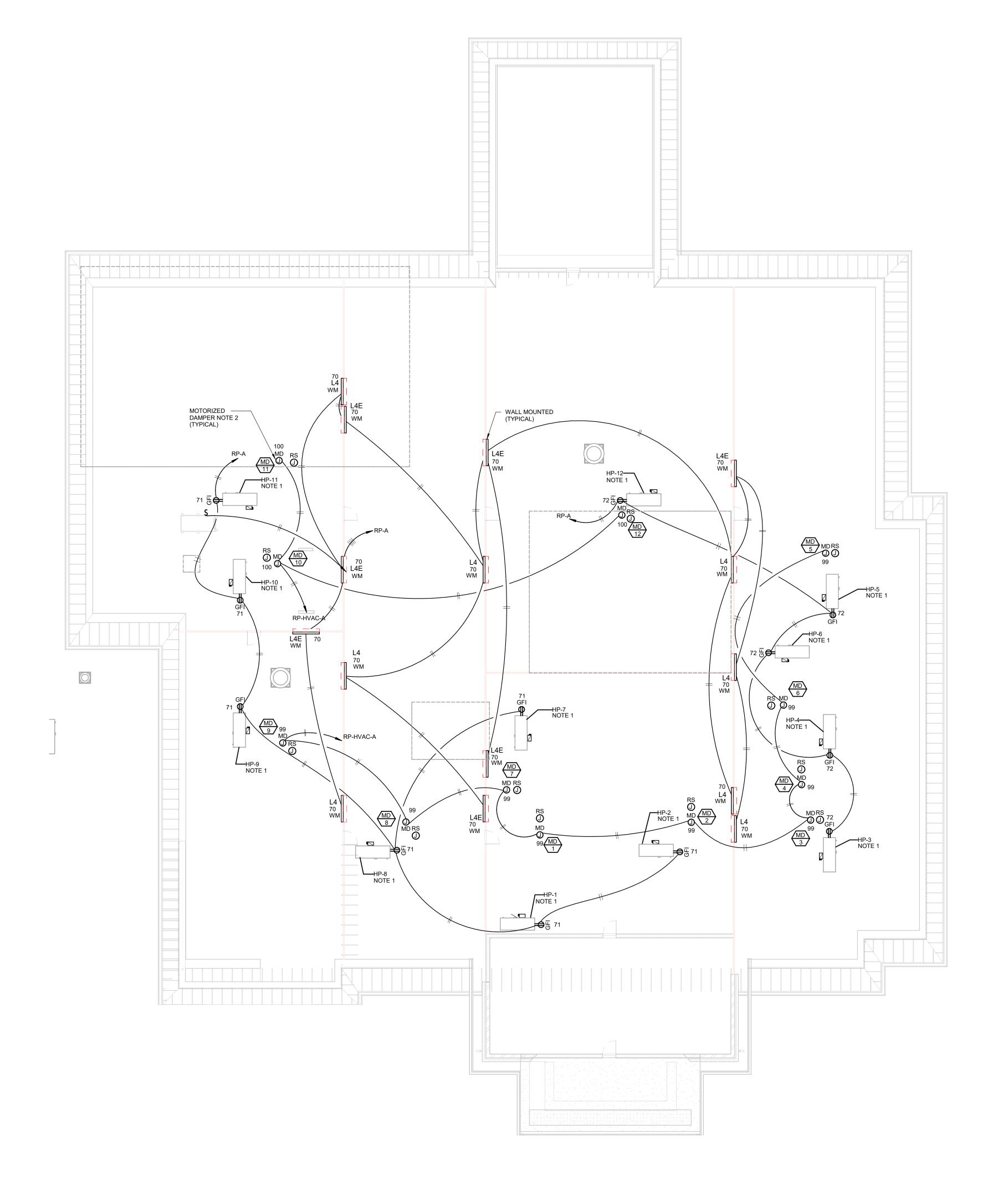
ISSUE:
03.31.25 BID

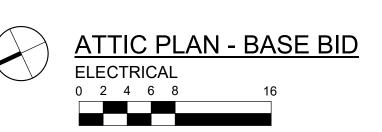
JOB NO.
24001

DESCRIPTION:

DESCRIPTION:
ATTIC PLAN ELECTRICAL

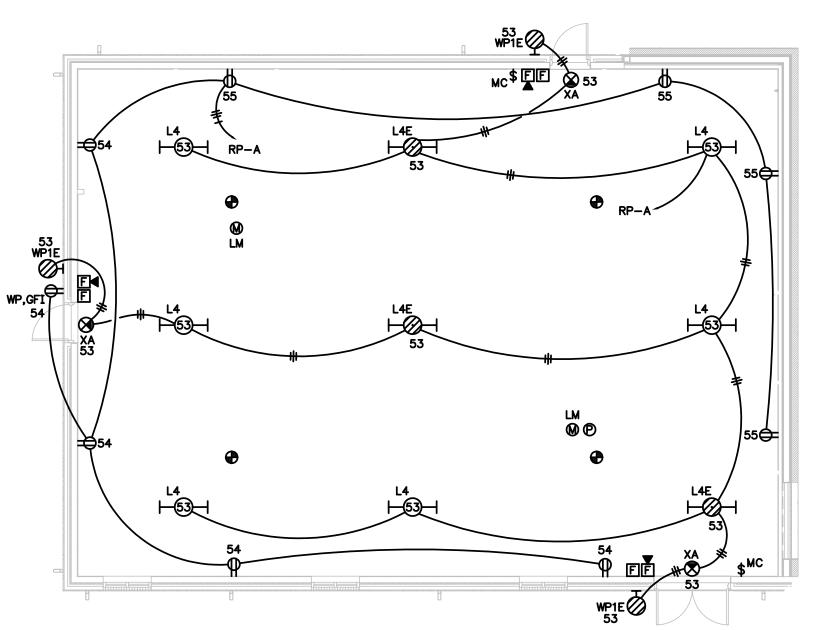
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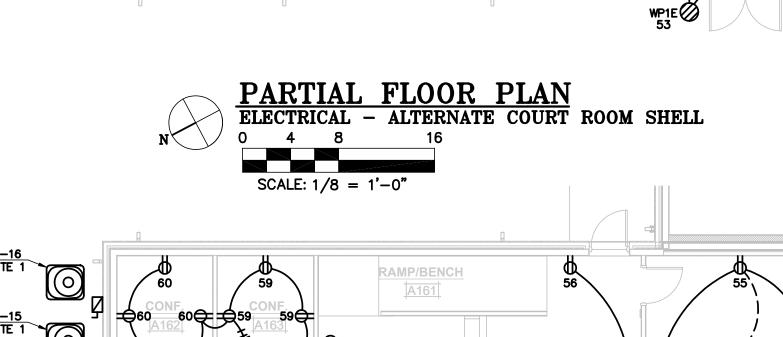


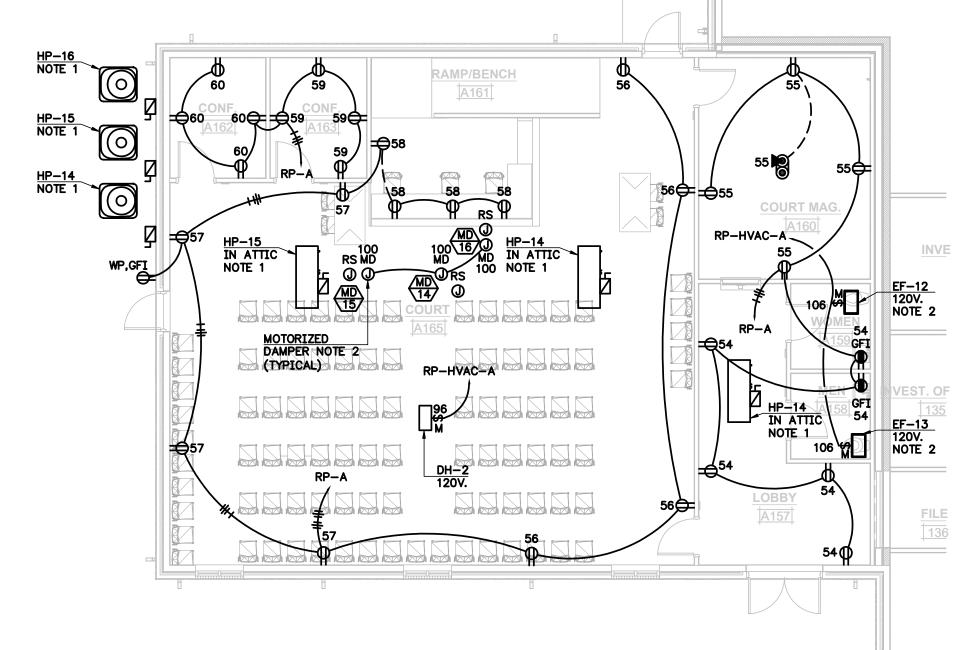


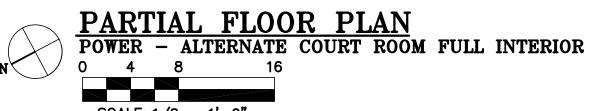
NOTES:

REFER TO SHEET E00.4 FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS.
 120V. MOTORIZED DAMPER TO BE CONNECTED AND CONTROLLED BY LIGHTING CONTROLS, COORDINATE WITH MECHANICAL DRAWINGS, SHEET M3.2 FOR EXACT LOCATION.





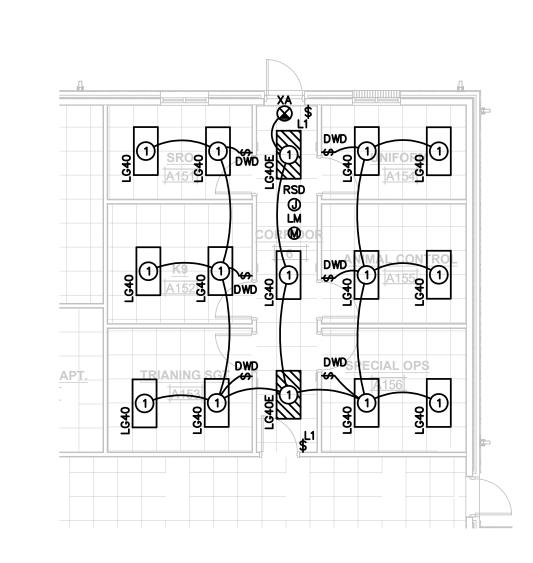




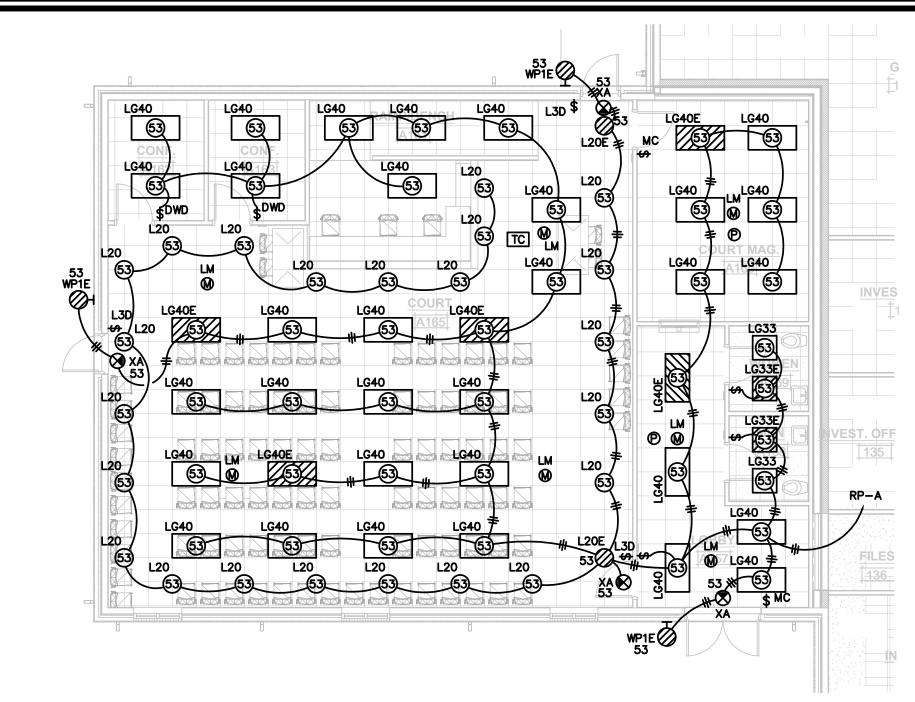
1. REFER TO SHEET E00.4 FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS.

2. EXHAUST FAN TO BE CONNECTED TO LIGHTING CONTROLS.

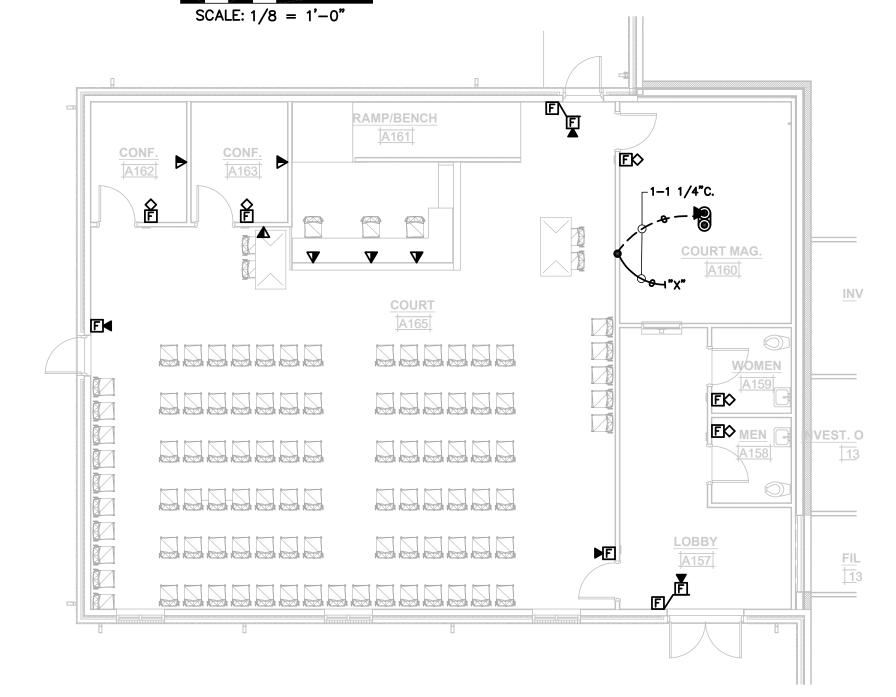
120V. MOTORIZED DAMPER, LOCATED IN ATTIC, TO BE CONNECTED AND CONTROLLED BY LIGHTING CONTROLS. COORDINATE WITH MECHANICAL DRAWINGS, SHEET M3.2 FOR EXACT LOCATION.

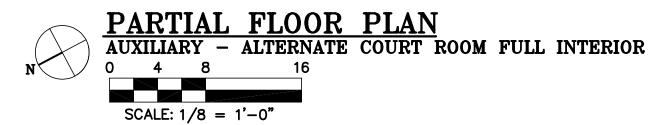


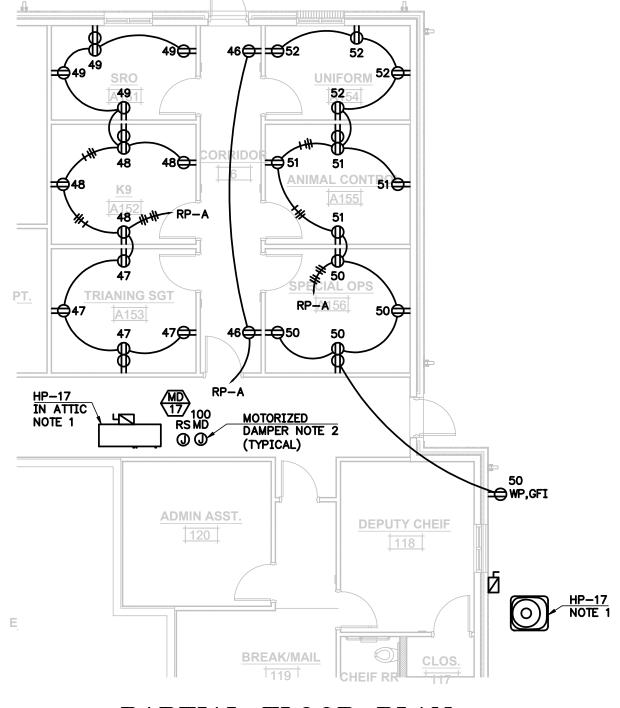


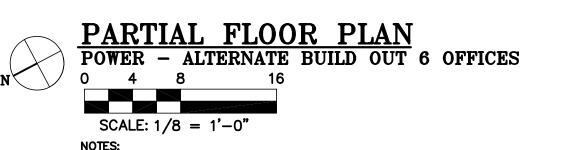




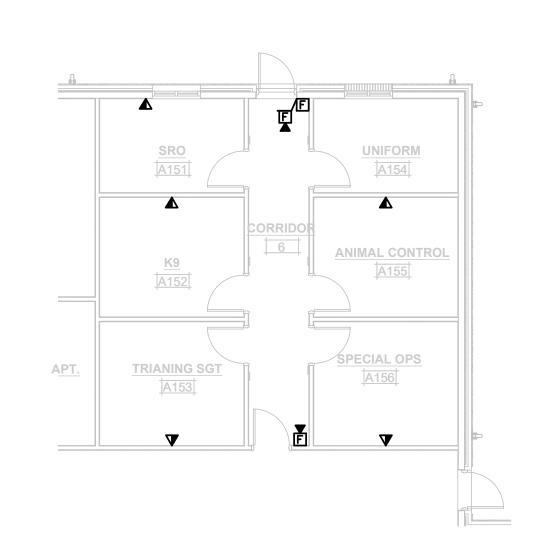


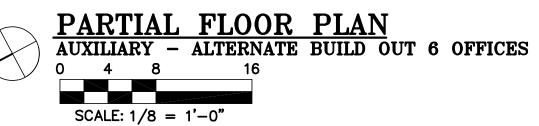






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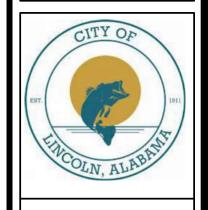








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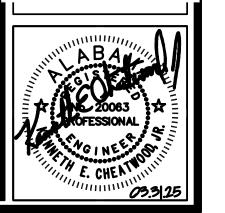
Pinson, AL 35126 205-942-0696 Attn: Tony Dodd

Hays Cheatwood Consulting P.O. Box 250

JOB NO.

24001 DESCRIPTION: PARTIAL ALTERNATE FLOOR PLANS - ELECTRICAL

SHEET











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150 Magnolia St.
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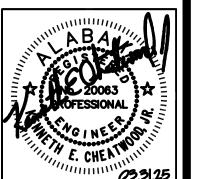
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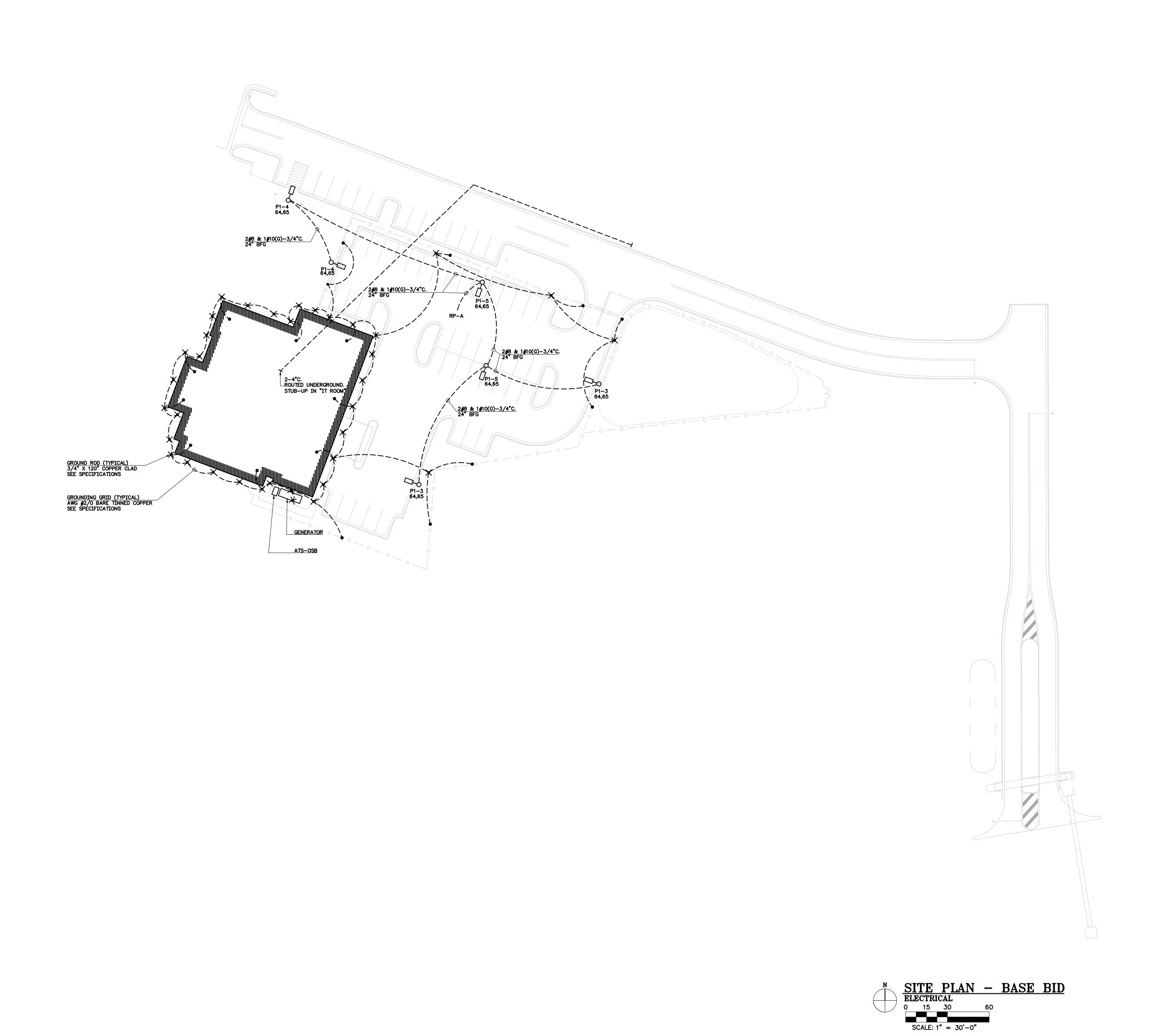
JOB NO. 24001

DESCRIPTION:
SITE PLAN ELECTRICAL

SHEET

 PROVIDE #2 AWG STRANDED TINNED COPPER FROM CHAIN LINK FENCE POST TO COUNTERPOISE SYSTEM AS SHOWN. E20.0



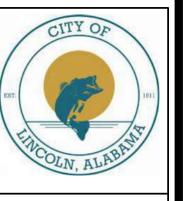






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DESCRIPTION:
SITE PLAN ALTERNATE ELECTRICAL

SHEET

E20.

