NEW FLEET MANAGEMENT BUILDING

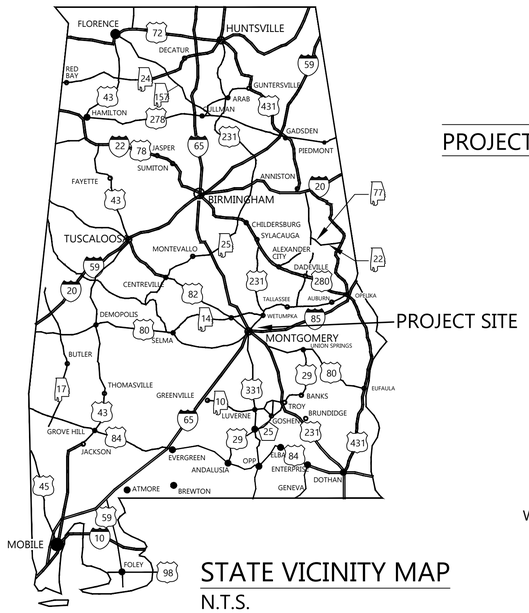
FOR

ALABAMA INDUSTRIAL DEVELOPMENT TRAINING

MONTGOMERY, ALABAMA

PH&J architects inc.	ARCHITECT
LARRY E. SPEAKS AND ASSOC., INC.	CIVIL ENGINEER
BLACKBURN, DANIELS, O'BARR, INC.	STRUCTURAL ENGINEER
ZGOUVAS, ERING AND ASSOC.	MECHANICAL ENGINEER
GUNN & ASSOCIATES, P.C.	ELECTRICAL ENGINEER

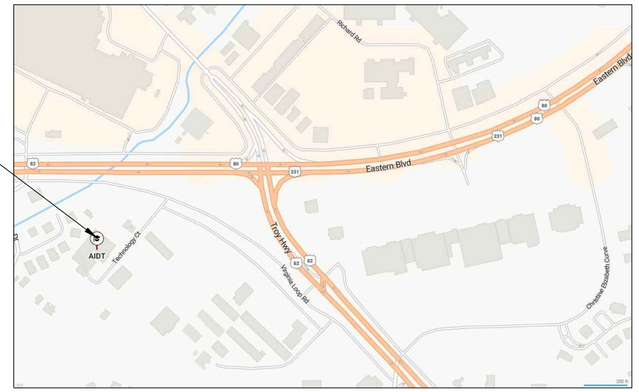
INDEX OF DRAWINGS



STATE VICINITY MAP

N.T.S.

PROJECT SITE



N

W E

S

LOCAL VICINITY MAP

N.T.S.

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW	CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA	
REVISED	
REVISED	

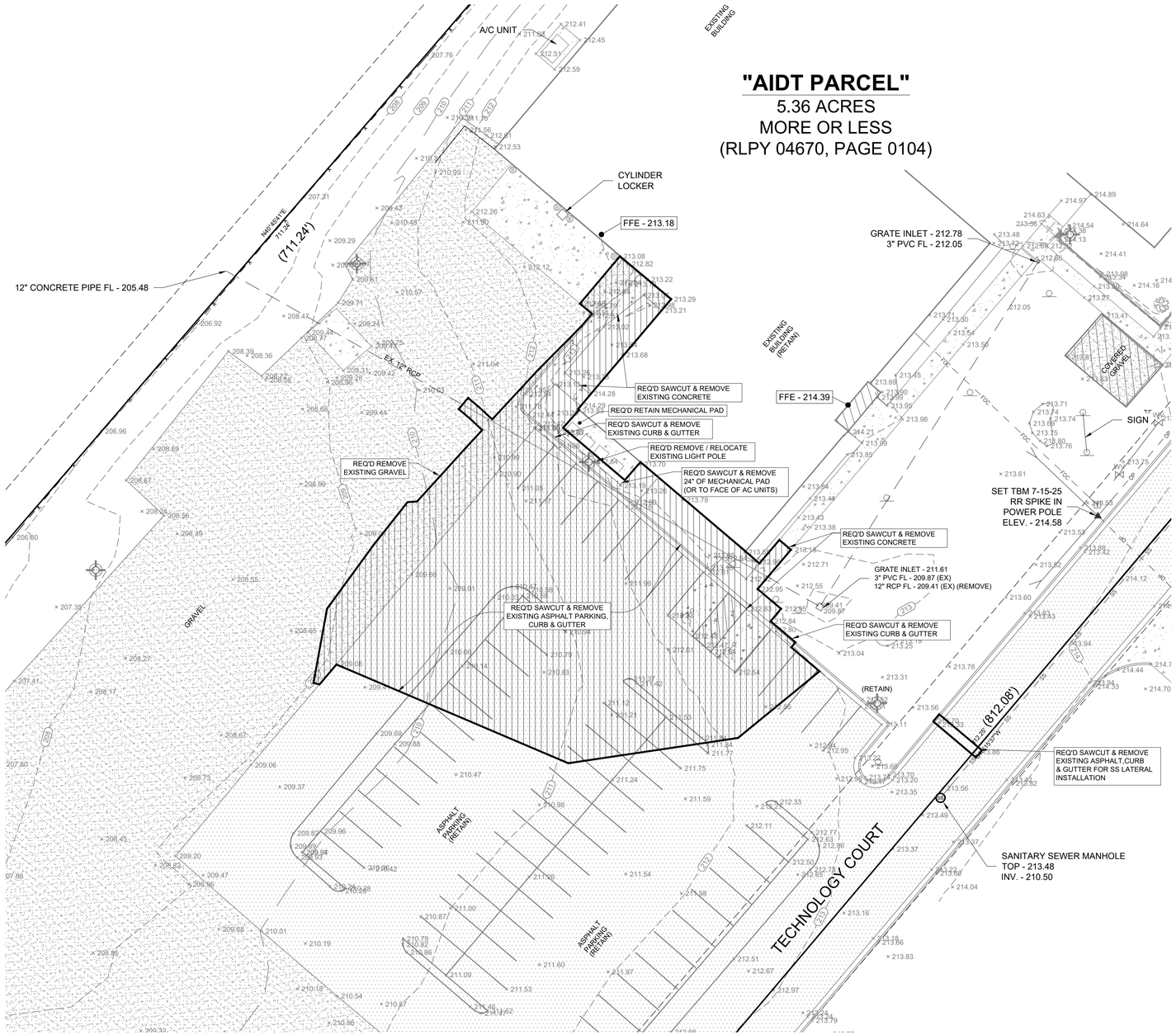
SHEET TITLE
INDEX to DRAWINGS
and VICINITY MAPS

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 1 OF 41

T-1

PROJECT NAME AND JOB NUMBERS



N

W E

S

0 20' 40'

SCALE: 1"=20'

LEGEND:

EXISTING	PROPOSED
FOUND IRON PIN	ASPHALT PAVING
SET IRON PIN (5/8" REBAR CAPPED) W/# CA-00017-LS	CONCRETE
FOUND CONCRETE MARKER	SANITARY SEWER
CALCULATED POINT	SANITARY LATERAL
ASPHALT	WATER MAIN
CONCRETE	STORM DRAIN
GRAVEL	MANHOLE
POWER POLE/GUY	CONTOUR
OVERHEAD POWER	FENCE
POWER BOX	DECORATIVE FENCE
LIGHT POLE	4" UNDER DRAIN
ICV	SILT FENCE
WATER METER	INLET PROTECTION
FIRE HYDRANT	WATER VALVE
WATER LINE	CLEANOUT
WATER SHUTOFF VALVE	SWALE
WATER VALVE	SLOPE PAVING
STORM DRAIN PIPE	ASPHALT LEVELING
STORM MANHOLE	
SANITARY SEWER	
SANITARY SEWER MANHOLE	
GRATE INLET	
TELEPHONE BOX	
TELEPHONE POLE	
FIBER OPTIC CABLE	
CABLE BOX	
BOLLARD	
SIGN	
FLAG POLE	
SPOT ELEVATION	
EXISTING CONTOUR	
TREE	
DEED DIMENSIONS	

PROJECT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

2. THIS PLAN IS NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED OR DEMOLISHED BY THE CONTRACTOR. THERE ARE OTHER ITEMS NOT SHOWN THAT THE CONTRACTOR MUST REMOVE AND/OR REPLACE IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE BOTH THESE PLANS, AND THE SITE, PRIOR TO SUBMITTING A BID. THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR ITEMS NOT NOTED TO BE REMOVED IN THESE PLANS.

3. SITE SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR.

4. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ADEQUATE EROSION/SEDIMENTATION CONTROL DURING ALL PHASES OF CONSTRUCTION.

5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSTRUCTION STORMWATER PERMIT THROUGH THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) PRIOR TO BEGINNING EARTH MOVING ACTIVITIES, INCLUDING ALL PERMIT FEES.

6. CONTRACTOR IS RESPONSIBLE FOR THE COST OF OBTAINING ANY REQUIRED PERMITS.

7. CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF PUBLIC STREETS AND ROW. CLEAN UP IS REQUIRED DAILY.

8. CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ASPHALT/CONCRETE PAVEMENT, SIDEWALK AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.

9. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SOD, GRAVEL, ASPHALT OR CONCRETE.

10. ALL WORK RELATED TO WATER AND/OR SEWER UTILITIES TO MEET OR EXCEED MWWSSB STANDARDS AND SPECIFICATIONS, AND MUST BE INSPECTED BY A MWWSSB INSPECTOR PRIOR TO BACKFILLING.

11. ALL PARKING LOT STRIPING SHALL BE CLASS 1 PER ALDOT STANDARD SPECIFICATIONS SECTION 701, LATEST EDITION.

12. ALL ASPHALT AND CONCRETE NOTED TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A CLEAN EDGE.

13. ALL NEW SIDEWALKS CONSTRUCTED SHALL NOT EXCEED 2% CROSS SLOPE. ANY SECTIONS CONSTRUCTED AS PART OF THIS CONTRACT THAT EXCEED 2% CROSS SLOPE WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

14. ALL NEW HANDICAP PARKING SPACES CONSTRUCTED MUST MEET OR EXCEED ADA REQUIREMENTS.

MWWSSB NOTES:

1. ALL WATER & SEWER IMPROVEMENTS SHALL MEET THE SPECIFICATIONS OF THE MONTGOMERY WATER WORKS & SANITARY SEWER BOARD.

2. CONTRACTOR TO WRAP ALL D.I. PIPE.

3. 30" OF COVER IS REQUIRED AT ALL TIMES OVER WATER AND SANITARY SEWER MAINS.

4. ALL UNUSED WATER AND SANITARY SEWER SERVICES MUST BE CAPPED, WITH WATER SERVICES BEING KILLED AT THE MAIN.

5. ALL NEW WATER MAIN TO BE TESTED AND CHLORINATED PER MWWSSB SPECIFICATIONS PRIOR TO BEING PLACED IN SERVICE.

6. ALL SEWER TO BE TESTED PER MWWSSB STANDARDS & SPECIFICATIONS.

PH&J architects inc.
Alabama
Montgomery,

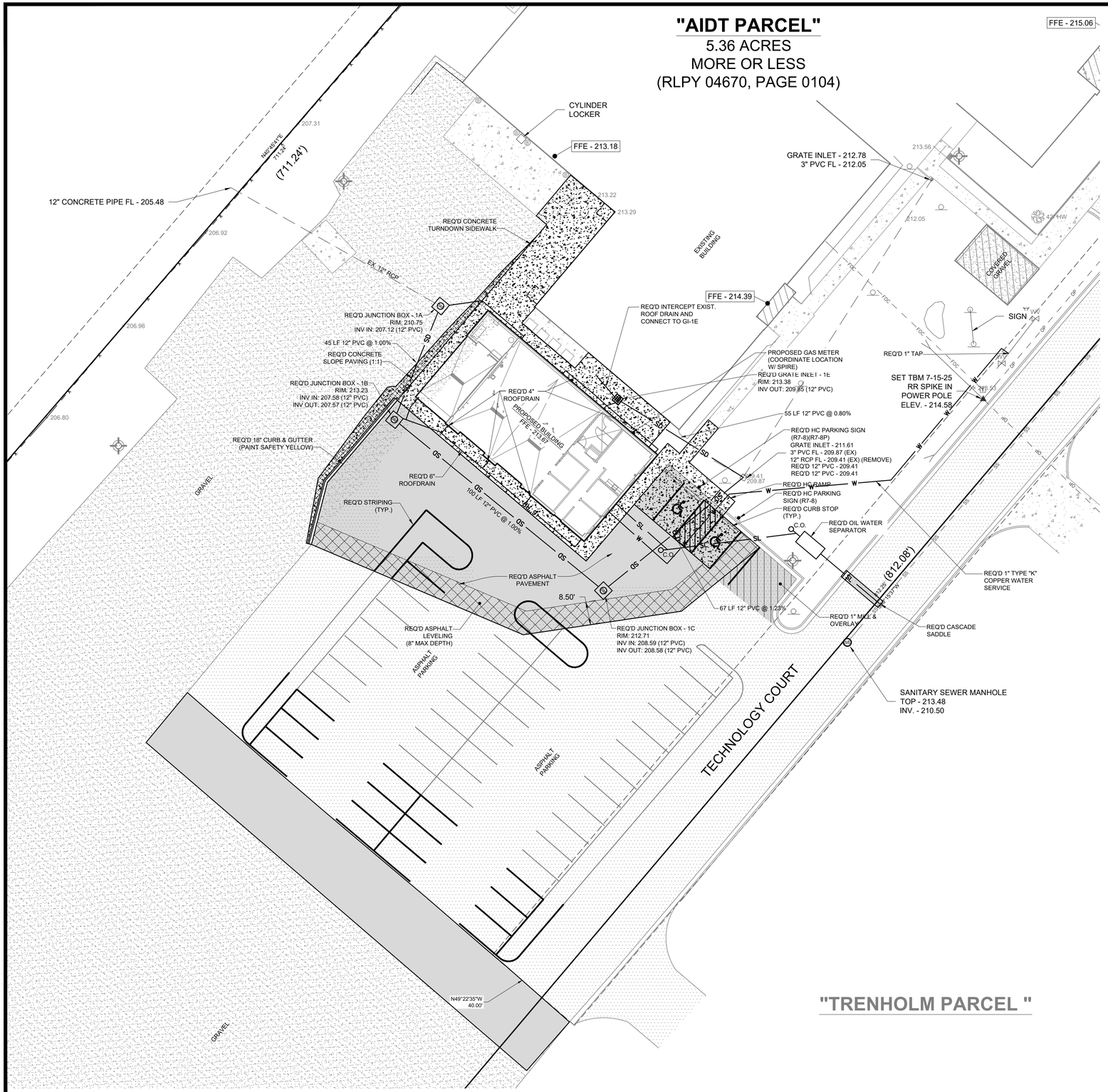
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA
No. 30071
PROFESSIONAL
ENGINEER
JONATHAN P. MCCLELLAN
11-30-25

DRAWN	WW/PM
CHECK	PM
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	EXISTING CONDITIONS & DEMOLITION PLAN
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	2 OF 41

C0.1

PROJECT NAME AND JOB NUMBERS



LEGEND:

EXISTING	PROPOSED
FOUND IRON PIN	ASPHALT PAVING
SET IRON PIN (5/8" REBAR CAPPED) W/# CA-00017-LS	CONCRETE
FOUND CONCRETE MARKER	SANITARY SEWER
CALCULATED POINT	SANITARY LATERAL
ASPHALT	WATER MAIN
CONCRETE	STORM DRAIN
GRAVEL	MANHOLE
POWER POLE/GUY	CONTOUR
OVERHEAD POWER	FENCE
POWER BOX	DECORATIVE FENCE
LIGHT POLE	4" UNDER DRAIN
ICV	SILT FENCE
WATER METER	INLET PROTECTION
FIRE HYDRANT	WATER VALVE
WATER LINE	CLEANOUT
WATER SHUTOFF VALVE	SWALE
WATER VALVE	SLOPE PAVING
STORM DRAIN PIPE	ASPHALT LEVELING
STORM MANHOLE	
SANITARY SEWER	
SANITARY SEWER MANHOLE	
GRATE INLET	
TELEPHONE BOX	
TELEPHONE POLE	
FIBER OPTIC CABLE	
CABLE BOX	
BOLLARD	
SIGN	
FLAG POLE	
SPOT ELEVATION	
EXISTING CONTOUR	
TREE	
DEED DIMENSIONS	

PROJECT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

2. THIS PLAN IS NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED OR DEMOLISHED BY THE CONTRACTOR. THERE ARE OTHER ITEMS NOT SHOWN THAT THE CONTRACTOR MUST REMOVE AND/OR REPLACE IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE BOTH THESE PLANS, AND THE SITE, PRIOR TO SUBMITTING A BID. THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR ITEMS NOT NOTED TO BE REMOVED IN THESE PLANS.

3. SITE SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR.

4. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ADEQUATE EROSION/SEDIMENTATION CONTROL DURING ALL PHASES OF CONSTRUCTION.

5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSTRUCTION STORMWATER PERMIT THROUGH THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) PRIOR TO BEGINNING EARTH MOVING ACTIVITIES, INCLUDING ALL PERMIT FEES.

6. CONTRACTOR IS RESPONSIBLE FOR THE COST OF OBTAINING ANY REQUIRED PERMITS.

7. CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF PUBLIC STREETS AND ROW. CLEAN UP IS REQUIRED DAILY.

8. CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ASPHALT/CONCRETE PAVEMENT, SIDEWALK AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.

9. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SOD, GRAVEL, ASPHALT OR CONCRETE.

10. ALL WORK RELATED TO WATER AND/OR SEWER UTILITIES TO MEET OR EXCEED MWWSSB STANDARDS AND SPECIFICATIONS, AND MUST BE INSPECTED BY A MWWSSB INSPECTOR PRIOR TO BACKFILLING.

11. ALL PARKING LOT STRIPING SHALL BE CLASS 1 PER ALDOT STANDARD SPECIFICATIONS SECTION 701, LATEST EDITION.

12. ALL ASPHALT AND CONCRETE NOTED TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A CLEAN EDGE.

13. ALL NEW SIDEWALKS CONSTRUCTED SHALL NOT EXCEED 2% CROSS SLOPE. ANY SECTIONS CONSTRUCTED AS PART OF THIS CONTRACT THAT EXCEED 2% CROSS SLOPE WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

14. ALL NEW HANDICAP PARKING SPACES CONSTRUCTED MUST MEET OR EXCEED ADA REQUIREMENTS.

MWWSSB NOTES:

1. ALL WATER & SEWER IMPROVEMENTS SHALL MEET THE SPECIFICATIONS OF THE MONTGOMERY WATER WORKS & SANITARY SEWER BOARD.

2. CONTRACTOR TO WRAP ALL D.I. PIPE.

3. 30" OF COVER IS REQUIRED AT ALL TIMES OVER WATER AND SANITARY SEWER MAINS.

4. ALL UNUSED WATER AND SANITARY SEWER SERVICES MUST BE CAPPED, WITH WATER SERVICES BEING KILLED AT THE MAIN.

5. ALL NEW WATER MAIN TO BE TESTED AND CHLORINATED PER MWWSSB SPECIFICATIONS PRIOR TO BEING PLACED IN SERVICE.

6. ALL SEWER TO BE TESTED PER MWWSSB STANDARDS & SPECIFICATIONS.

"TRENHOLM PARCEL "

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA
JONATHAN P. MCCLENDON
No. 30071
PROFESSIONAL ENGINEER
11-30-25

DRAWN	WW/PM
CHECK	PM
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	

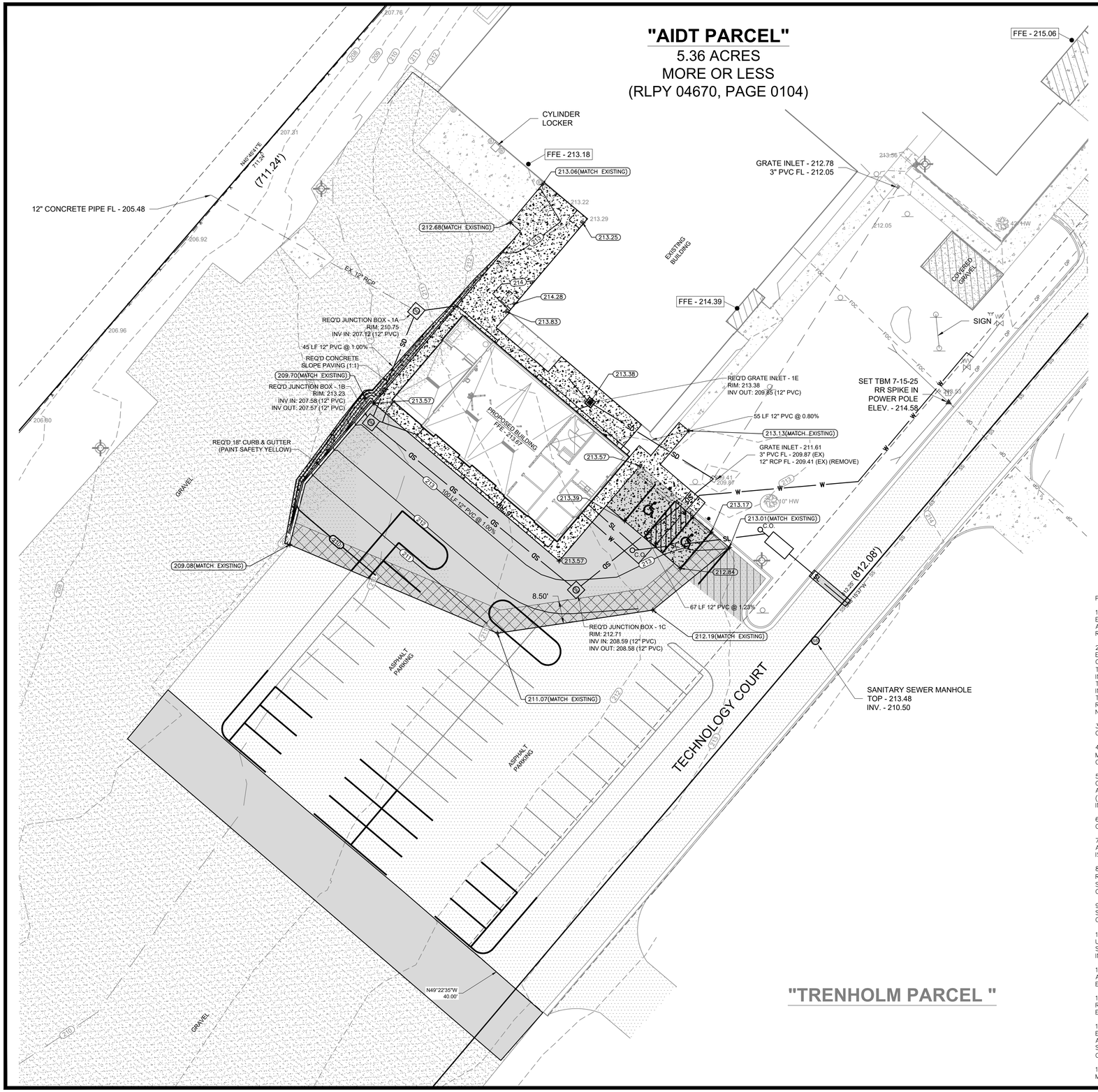
SHEET TITLE: OVERALL SITE PLAN

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 3 OF 41

C1.0

PROJECT NAME AND JOB NUMBERS



N

W E

S

0 20' 40'

SCALE: 1"=20'

LEGEND:

EXISTING

- FOUND IRON PIN
- SET IRON PIN (5/8" REBAR CAPPED) W/# CA-00017-LS
- FOUND CONCRETE MARKER
- CALCULATED POINT
- ASPHALT
- CONCRETE
- GRAVEL
- POWER POLE/GUY
- OP — OVERHEAD POWER
- POWER BOX
- LIGHT POLE
- ICV
- WATER METER
- FIRE HYDRANT
- 6" W — WATER LINE
- WATER SHUTOFF VALVE
- WV — WATER VALVE
- SD — STORM DRAIN PIPE
- MH — STORM MANHOLE
- SS — SANITARY SEWER
- SS — SANITARY SEWER MANHOLE
- GRATE INLET
- T — TELEPHONE BOX
- T — TELEPHONE POLE
- FOC — FIBER OPTIC CABLE
- C — CABLE BOX
- B — BOLLARD
- SIGN
- FLAG POLE
- × 505.12 — SPOT ELEVATION
- 408 — EXISTING CONTOUR
- TREE
- ( ) — DEED DIMENSIONS

PROPOSED

- ASPHALT PAVING
- CONCRETE
- SS — SANITARY SEWER
- SL — SANITARY LATERAL
- W — WATER MAIN
- SD — STORM DRAIN
- MANHOLE
- CONTOUR
- X — FENCE
- DECORATIVE FENCE
- UD — 4" UNDER DRAIN
- SF — SILT FENCE
- INLET PROTECTION
- WATER VALVE
- C.O. — CLEANOUT
- S — SWALE
- SLOPE PAVING
- ASPHALT LEVELING

PROJECT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

2. THIS PLAN IS NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED OR DEMOLISHED BY THE CONTRACTOR. THERE ARE OTHER ITEMS NOT SHOWN THAT THE CONTRACTOR MUST REMOVE AND/OR REPLACE IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE BOTH THESE PLANS, AND THE SITE, PRIOR TO SUBMITTING A BID. THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR ITEMS NOT NOTED TO BE REMOVED IN THESE PLANS.

3. SITE SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR.

4. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ADEQUATE EROSION/SEDIMENTATION CONTROL DURING ALL PHASES OF CONSTRUCTION.

5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSTRUCTION STORMWATER PERMIT THROUGH THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) PRIOR TO BEGINNING EARTH MOVING ACTIVITIES, INCLUDING ALL PERMIT FEES.

6. CONTRACTOR IS RESPONSIBLE FOR THE COST OF OBTAINING ANY REQUIRED PERMITS.

7. CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF PUBLIC STREETS AND ROW. CLEAN UP IS REQUIRED DAILY.

8. CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ASPHALT/CONCRETE PAVEMENT, SIDEWALK AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.

9. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SOD, GRAVEL, ASPHALT OR CONCRETE.

10. ALL WORK RELATED TO WATER AND/OR SEWER UTILITIES TO MEET OR EXCEED MWWSSB STANDARDS AND SPECIFICATIONS, AND MUST BE INSPECTED BY A MWWSSB INSPECTOR PRIOR TO BACKFILLING.

11. ALL PARKING LOT STRIPING SHALL BE CLASS 1 PER ALDOT STANDARD SPECIFICATIONS SECTION 701, LATEST EDITION.

12. ALL ASPHALT AND CONCRETE NOTED TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A CLEAN EDGE.

13. ALL NEW SIDEWALKS CONSTRUCTED SHALL NOT EXCEED 2% CROSS SLOPE. ANY SECTIONS CONSTRUCTED AS PART OF THIS CONTRACT THAT EXCEED 2% CROSS SLOPE WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

14. ALL NEW HANDICAP PARKING SPACES CONSTRUCTED MUST MEET OR EXCEED ADA REQUIREMENTS.

MWWSSB NOTES:

1. ALL WATER & SEWER IMPROVEMENTS SHALL MEET THE SPECIFICATIONS OF THE MONTGOMERY WATER WORKS & SANITARY SEWER BOARD.

2. CONTRACTOR TO WRAP ALL D.I. PIPE.

3. 30" OF COVER IS REQUIRED AT ALL TIMES OVER WATER AND SANITARY SEWER MAINS.

4. ALL UNUSED WATER AND SANITARY SEWER SERVICES MUST BE CAPPED, WITH WATER SERVICES BEING KILLED AT THE MAIN.

5. ALL NEW WATER MAIN TO BE TESTED AND CHLORINATED PER MWWSSB SPECIFICATIONS PRIOR TO BEING PLACED IN SERVICE.

6. ALL SEWER TO BE TESTED PER MWWSSB STANDARDS & SPECIFICATIONS..

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA
No. 30071
PROFESSIONAL
ENGINEER
JONATHAN P. MCCLERKIN
11-20-25

DRAWN WW/PM	CHECK PM
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

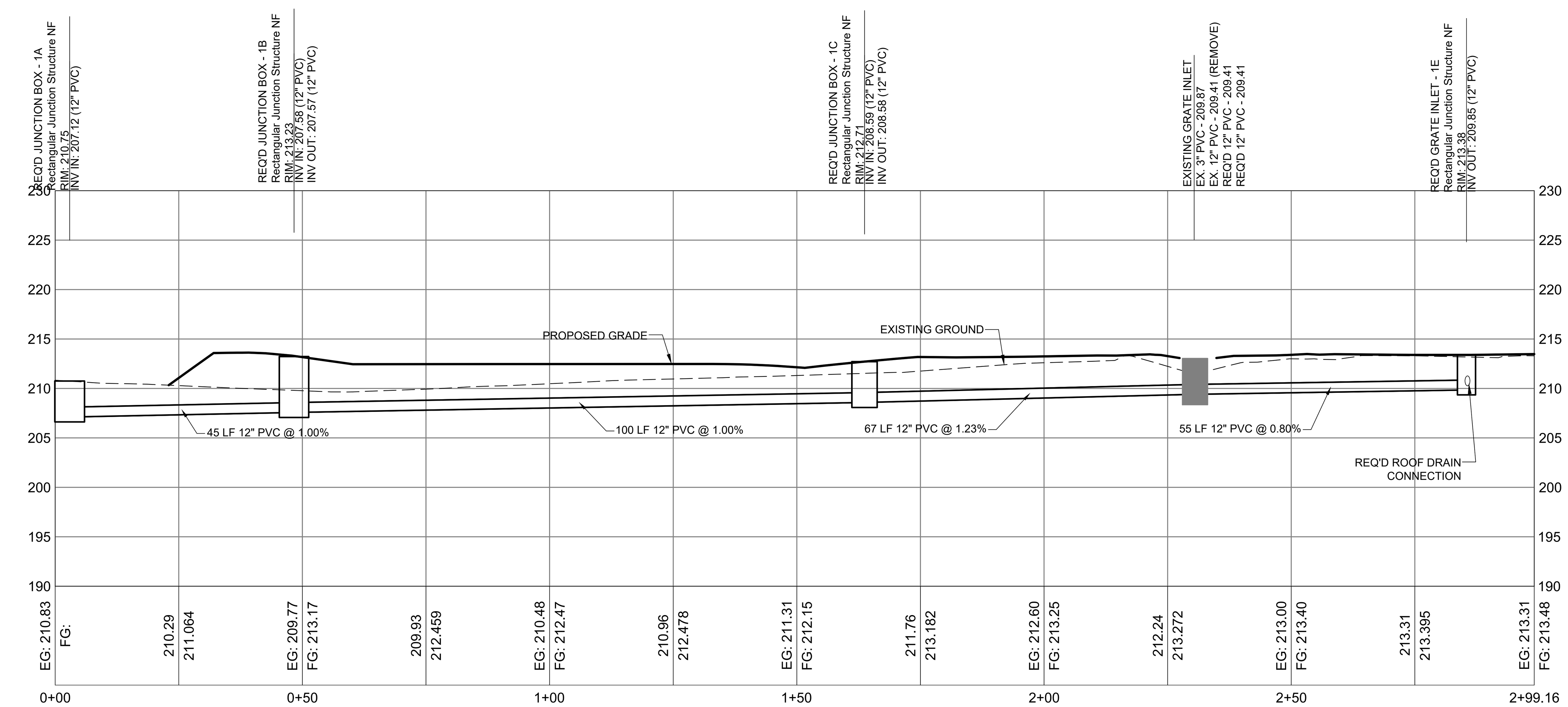
SHEET TITLE: OVERALL GRADING & BEST MANAGEMENT PRACTICES PLAN

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 4 OF 41

C2.0

PROJECT NAME AND JOB NUMBERS



HORIZ. SCALE
1"=20'
VERT. SCALE
1"=10'

PH&J architects inc.
Montgomery, Alabama

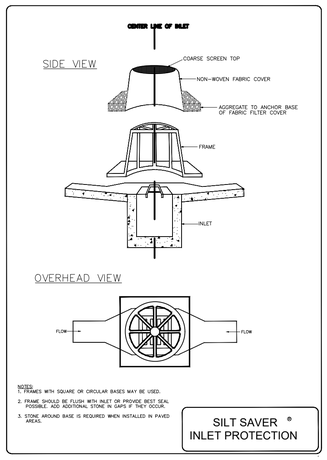
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA PROFESSIONAL ENGINEER No. 30071 JONATHAN P. McCLENDON
11-20-25

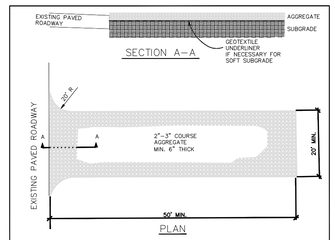
DRAWN WW/PM	CHECK PM
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	STORM PROFILES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	5 OF 41

C3.0

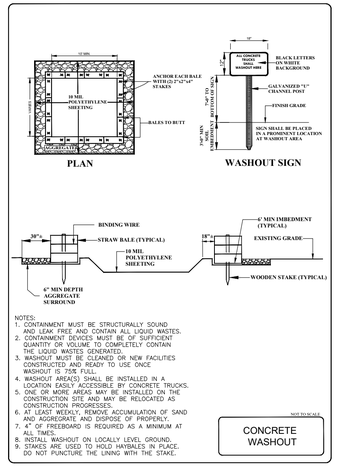
PROJECT NAME AND JOB NUMBERS



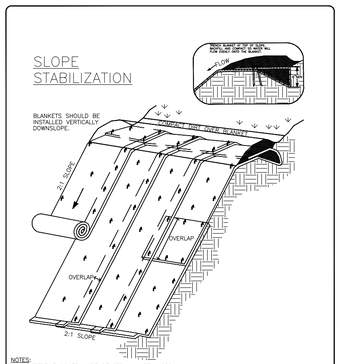
SILT SAVER ®
INLET PROTECTION



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT



CONCRETE WASHOUT



NOTES:
1. PROTECTIVE COVER MADE OF STRAW, JUTE, WOOD, PLASTIC, NYLON, PAPER, OR COTTON.
2. USE TO PROTECT AREAS WITH HIGH EROSION POTENTIAL (I.E. STEEP SLOPES, CHANNELS, ETC) WHILE FACILITATING VEGETATIVE GROWTH.
3. SLOPE MUST BE GRADED TO A SMOOTH UNIFORM SURFACE WITH NO DEBRIS, ROCKS, CLODS, ROOTS, OR CONSTRUCTION FIRM CONTACT IS NEEDED WITH THE CONTINUOUS FABRIC.
4. INSTALL BLANKETS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, ESPECIALLY FOR CHECK SLOTS, OVERLAP WIDTHS, AND STAPLING PATTERNS.
5. AFTER RAIN EVENTS, CHECK FOR EROSION AND UNDERMINING BENEATH BLANKETS. REPAIR BY FILLING ERODED AREA, SEEDING AND REPLACING DAMAGED BLANKET.

EROSION CONTROL BLANKET

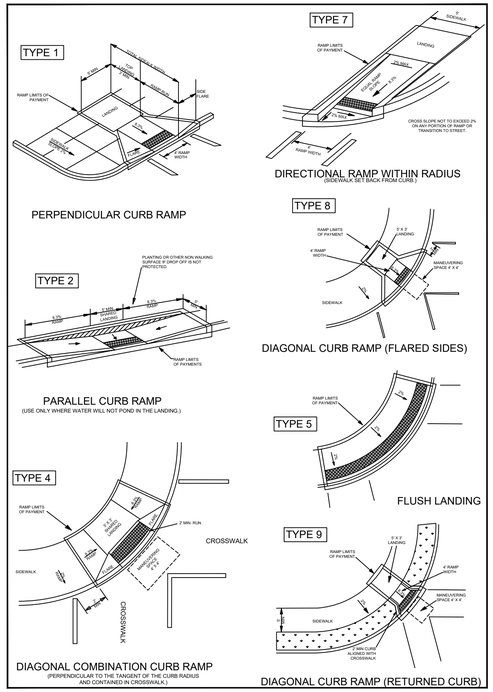
NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

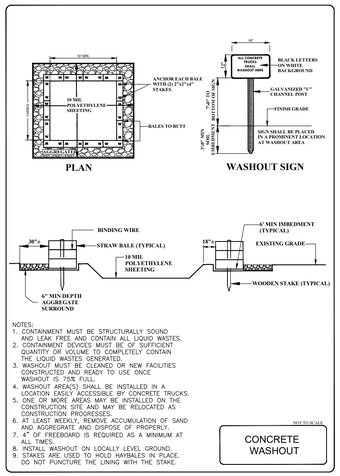
FILE: SED403

SILT FENCE

NOTES:
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF 3 FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURER'S RECOMMENDATIONS.
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING OCCURS.

WATTLES: INLET PROTECTION & DITCH CHECKS





CONCRETE WASHOUT

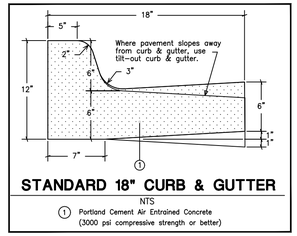
GENERAL NOTES

1. **The Contractor shall be responsible for planning, coordinating and performing the work of protecting the project and the adjoining properties from soil erosion and siltation by constructing berms, silt fences, diversion ditches, settling basins, etc., as they become necessary to correct or prevent such problems (No direct payment unless noted otherwise)**

2. **Erosion of this site shall be controlled as follows:**
   1. **Selective disturbance of the site will minimize possible erosion.**
   2. **Diversion ditches & berms shall be placed around the site as needed to divert water away from the area of actual construction.**
   3. **Techniques such as the use of haybales, silt fence, check dams, gravel filter berms, terraces, etc.**
   4. **A settling basin may serve as a final method of preventing eroded material from leaving the site if necessary.**

3. **Should the Contractor fail to implement the necessary measures to control siltation /erosion on the site all construction activities shall be stopped until the appropriate measures are taken as directed by the Engineer or Local Authorities.**

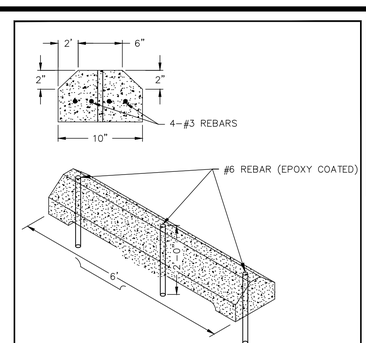
4. **To maintain erosion control measures the Contractor shall:**
   1. **Inspect all control measures at least once each week and following any storm event of 0.5 inches or more.**
   2. **Repair any defects noted within 24 hours of report.**
   3. **Sediment buildup shall be closely monitored at silt fences, sediment basins, etc. and removed accordingly.**
   4. **Diversion dikes and swales shall be inspected and repaired as necessary.**
   5. **Temporary and permanent seeding and planting areas will be inspected for bare spots, washouts & healthy growth.**



STANDARD 18" CURB & GUTTER

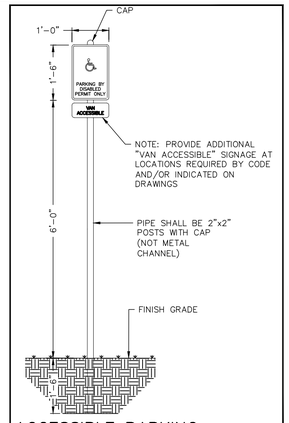
NTS

(1) Portland Cement Air Entrained Concrete (3000 psi compressive strength or better)



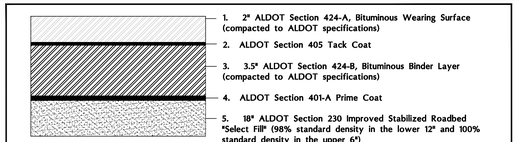
CONCRETE WHEEL STOP

NTS

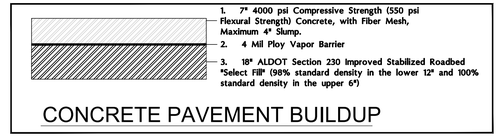


ACCESSIBLE PARKING SIGN DETAIL

N.T.S.



ASPHALT PAVEMENT BUILDUP

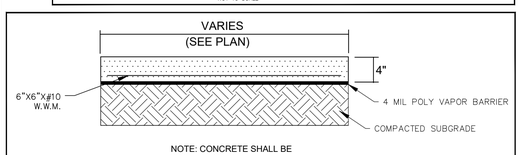


CONCRETE PAVEMENT BUILDUP

1. CONCRETE REQUIREMENTS: 3000 PSI @ 28 DAYS, 5" MAX SLUMP, 6% AIR + 1%, BROOM FINISHED
2. MAXIMUM JOINT SPACING: 10'
3. CONTRACTOR SHALL APPLY AN APPROVED CURING COMPOUND IMMEDIATELY AFTER PLACING CONCRETE.
4. THE LOCATION OF ALL CONTROL/CONSTRUCTION JOINTS SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR HAS THE OPTION BETWEEN CONSTRUCTING THE CONTROL JOINT VERSES THE CONSTRUCTION JOINT.

CONCRETE DETAILS

NOT TO SCALE



NOTE: CONCRETE SHALL BE 3000 p.s.i.,CL. "A"

SIDEWALK DETAIL

NOT TO SCALE

PH&J Architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 30071 JONATHAN P. MCCLENDON 11-30-25

DRAWN	WW/PM
CHECK	PM
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	

SHEET TITLE: MISCELLANEOUS DETAILS

JOB NO. PH&J #2502-CUA DCM #2025417

SEQUENCE NO. 6 OF 41

C4.0

PROJECT NAME AND JOB NUMBERS

CODE STUDY

CODES USED:
IBC 2021
IPC 2021
IMC 2021
NEC 2020
ADA 2010 STANDARDS

CHAPTER 3 - OCCUPANCY

304.1 OCCUPANCY: BUSINESS (B)

311.2 OCCUPANCY: STORAGE (S-1)

CHAPTER 5 - BUILDING HEIGHT AND AREA

TABLE 504.3 AND 504.4: ALLOWABLE BUILDING HEIGHTS TYPE IIIB, NON-SPRINKLERED
BUSINESS = 55', 3 STORY
STORAGE (S-1) = 55', 2 STORY
MEAN ROOF HEIGHT OF BUILDING: **17' -9"** & ONE(1) STORY

TABLE 506.2 ALLOWABLE AREA TYPE IIIB, NON-SPRINKLERED
BUSINESS = 19,000 SF
STORAGE (S-1) = 17,500 SF

ACTUAL BUILDING AREA = 3402 SF
BUSINESS AREA = 987 SF
STORAGE (S-1) AREA = 2162 SF

SECTION 508 MIXED USE OCCUPANCY

508.3 NONSEPARATED USES

508.3.2 ALLOWABLE HEIGHT AND AREA SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATION

MAXIMUM ALLOWABLE HEIGHT = 55' AND 2 STORY
MAXIMUM ALLOWABLE AREA = 19,000 SF

CHAPTER 6 - CONSTRUCTION TYPES

TABLE 601 - FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS
CONSTRUCTION TYPE: IIIB

PRIMARY FRAME	0 HR
BEARING EXTERIOR WALLS	2 HR
BEARING INTERIOR WALLS	0 HR
NON BEARING EXTERIOR WALLS	0 HR (SECTION 705.5)
NON BEARING INTERIOR WALLS	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

CHAPTER 7 - FIRE & SMOKE PROTECTION
TABLE 705.5 FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

DISTANCE	TYPE OF CONSTRUCTION	OCCUPANCY
10<u>_</u> X <30	IIIB	Group B 1hr

TABLE 706.4 FIRE WALL FIRE RESISTANCE

OCCUPANCY	RATING
B	3 HR

SECTION 713 SHAFT ENCLOSURES
713.4 FIRE RESISTANCE RATING
SHAFT ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES

TABLE 716.1(2) OPENING PROTECTION ASSEMBLIES: N/A

SECTION 720.2 CONCEALED INSULATION: FLAME SPREAD < 25 AND SMOKE DEVELOPMENT < 450.

CHAPTER 8 - INTERIOR FINISHES

TABLE 803.13 - NON-SPRINKLERED

OCCUPANCY	EXITS	CORRIDOR	ROOMS
BUSINESS	A	B	C
STORAGE	B	B	C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

FIGURE 903.2 OCCUPANCY RELATED SPRINKLER THRESHOLD N/A

SECTION 906 PORTABLE FIRE EXTINGUISHERS
PORTABLE FIRE EXTINGUISHERS SHALL BE LOCATED PER IFC.

SECTION 907 MANUAL FIRE ALARM - NOT REQUIRED

TABLE 1004.1.1 MAXIMUM FLOOR ALLOWANCES PER OCCUPANT

BUSINESS	987 SF @ 150 GROSS	= 7 PERSONS
STORAGE	2162 SF @ 300 GROSS	= 8 PERSONS
TOTAL OCCUPANT LOAD		= 15 PERSONS

SECTION 1005.3.2 OTHER EGRESS COMPONENTS
THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD OF 15 BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT = .3" REQUIRED; 68" PROVIDED

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE MEASUREMENT

OCCUPANCY	DISTANCE WITHOUT SPRINKLERS
B	200'

TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING

OCCUPANCY	CORRIDOR LOAD	REQUIRED FIRE RATING (HRS)
B	X > 30	1

TABLE 1020.3 MINIMUM CORRIDOR WIDTH - 44"

2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

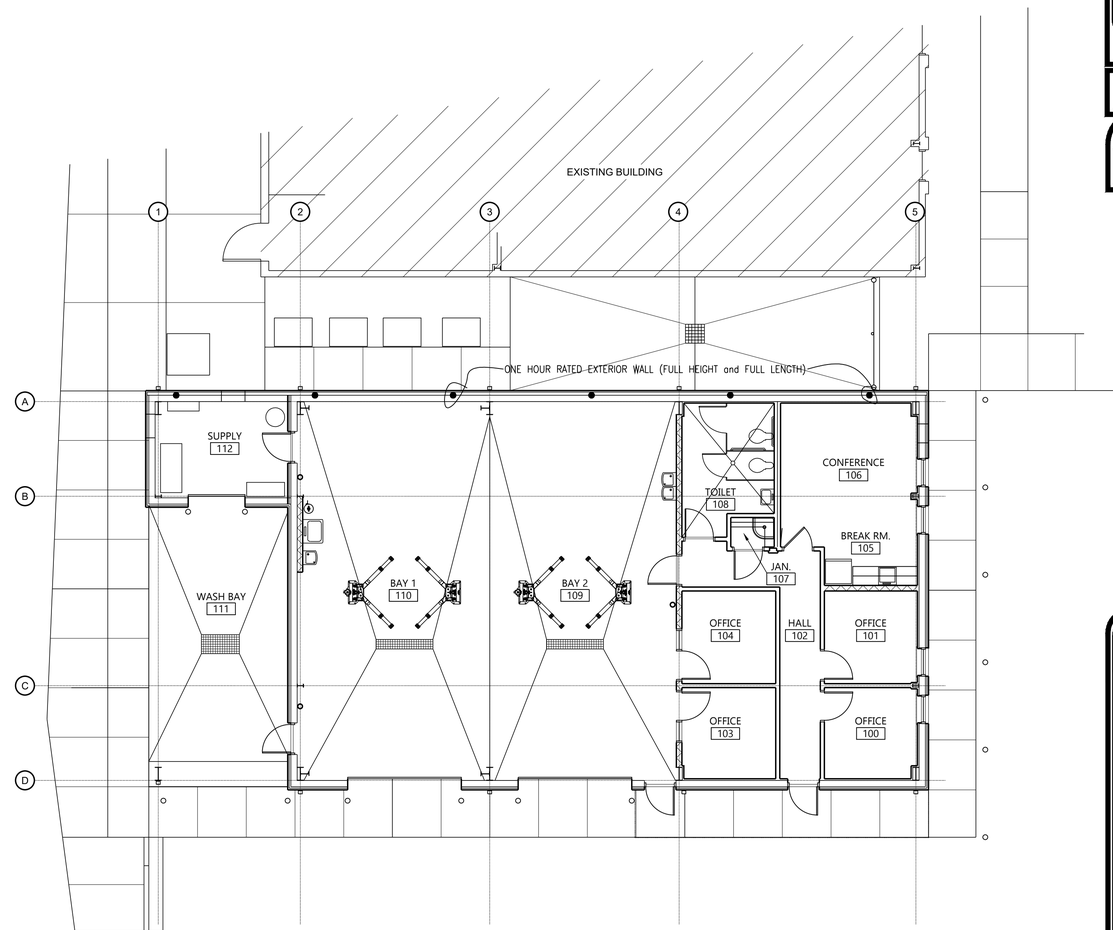
BUSINESS = 7 PERSONS

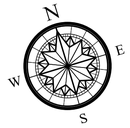
W/C	1:25 = 1.75
LAVS	1:40 = 2.8
EWC	1:100 = 0.7
SERVICE SINK	0

STORAGE (S-1) = 8 PERSONS

W/C	1:100 = 0.08
LAVS	1:100 = 0.08
EWC	1:1000 = 0.008
SERVICE SINK	1

TOTAL W/C = 1.83 ∴ 2 REQUIRED AND 2 PROVIDED
TOTAL LAVS = 2.88 ∴ 3 REQUIRED AND 3 PROVIDED
TOTAL EWC = 0.708 ∴ 1 REQUIRED AND 3 PROVIDED
TOTAL SERVICE SINK = 1 ∴ 1 REQUIRED AND 2 PROVIDED





FLOOR PLAN
SCALE: 1/8" = 1'-0"

5 0 5 10 15 20 25 FEET
GRAPHIC SCALE

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA
REVISED
REVISED
SHEET TITLE
LIFE SAFETY PLAN
JOB NO. PH&J #2502-CUA
DCM #2025417
SEQUENCE NO. 7 OF 41

LS – 1

PROJECT NAME AND JOB NUMBERS

GENERAL AND SPECIAL NOTES

1 ABBREVIATIONS EMPLOYED ARE NOTED IN FRONT OF SPECIFICATIONS.

2 DIMENSIONS ON PLANS ARE NOMINAL; VERIFY EXACT WIDTH OF OPENINGS, PIERS, ETC. FROM DETAILS AND SCHEDULES.

3 WITHIN PRACTICAL LIMITS, ALL FINISH FLOOR SURFACES SHALL ALIGN.

4 BUILD IN OPENINGS FOR PIPES AND DUCTS.

5 UNLESS DIMENSIONED, LOCATE DOOR OPENINGS AND OTHER ITEMS BY SCALE.

LEGEND

OFFICE 101	ROOM NUMBER		CONCRETE
B	WINDOW TYPE		2x4 WOOD STUD PARTITION
1	DOOR NUMBER	18 A2.1 / A A6.1	DETAIL/SECTION NUMBER / SHEET NUMBER
B A2.1	ELEVATION / SHEET NUMBER	A	LOUVER TYPE
+101.58'	NEW SPOT GRADE	CT	CAST THRESHOLD
A A3.4	LARGE SCALE PLAN / SHEET NUMBER	PEB	PORTABLE EXTINGUISHER BRACKET- BY OWNER
FOS	FACE OF STUD	DS&B	DOWNSPOUT AND BOOT
SRFEC	SEMI-RECESSED EXTINGUISH. CABINET	PB	PIPE BOLLARD (DET. 4/A5.0)
BT	BAR THRESHOLD	AET	ALUM. EDGE THRESHOLD - SEE DETAIL 9/A7.2
FD	FLOOR DRAIN		2x6 WOOD STUD PARTITION
		TD	ONE HOUR RATED PARTITION
		ST	TRENCH DRAIN - SEE PLUMB. DWG'S. AND SPECS
			SAND TRAP DRAIN - SEE PLUMBING DWG'S. & SPECS

FINISH SCHEDULE ABBREVIATIONS

EXCEPT FOR PAINTED WAINSCOTS AND SPECIAL COATINGS, FINISH SCHEDULE REFLECTS VISIBLE SURFACE BEFORE PAINTING IS DONE. SEE FINISH NOTES THIS SHEET.

(ALL ABBREVIATIONS NOT USED)

ABD	2'x2' ACOUST. LAY-IN TILE	[3]	FINISH NOTE	MTL	PRE-FINISHED METAL	SPEC	SEE SPECIFICATIONS
ABDM	MOIST. RESIST. ABD	GB	GYPSUM BOARD	P	PAINT		
CONC	CONCRETE	GBM	MOIST. RESIST. GYP. BD.	P/F	PRE-FINISHED	VAR	VARIES
CT	CERAMIC TILE	GT	GLAZED TILE	PWD	PLYWOOD	WD	WOOD
EXP	EXPOSED	LVT	SPECIAL VINYL TILE	R	RUBBER		

FINISH SCHEDULE

ROOM NO.	ROOM TITLE	FLOOR MAT.	BASE	NORTH WALL MAT.	NORTH WALL FIN.	SOUTH WALL MAT.	SOUTH WALL FIN.	EAST WALL MAT.	EAST WALL FIN.	WEST WALL MAT.	WEST WALL FIN.	CEILING MAT.	CEILING HGT.	REMARKS
100	OFFICE	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	-
101	OFFICE	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	-
102	HALL	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	-
103	OFFICE	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	-
104	OFFICE	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	-
105	BREAK ROOM	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	SEE INTERIOR ELEV. A/A7.1
106	CONFERENCE ROOM	LVT	R	GB	P	GB	P	GB	P	GB	P	ABD	9'-0"	-
107	JANITOR	CT	GT	GBM	P	GBM	P	GBM	P	GBM	P	ABDM	9'-0"	SEE INTERIOR ELEV. C/A7.1 [3]
108	UNI-SEX TOILET	CT	GT	GBM	P	GBM	P	GBM	P	GBM	P	ABDM	9'-0"	SEE INTERIOR ELEV. B/A7.1 [3]
109	BAY 2	CONC	WD	EXP/PWD	-/P	EXP/PWD	-/P	-	-	EXP/PWD	-/P	EXP	VAR	[1] [4] [5] [6]
110	BAY 1	CONC	WD	EXP/PWD	-/P	EXP/PWD	-/P	MTL/PWD	-/P	-	-	EXP	VAR	[1] [2] [4] [5] [6]
111	WASH BAY	CONC	MTL	MTL	P/F	-	-	MTL	P/F	-	-	MTL	VAR	-
112	SUPPLY	CONC	WD	EXP	-	EXP	-	MTL/PWD	-/P	EXP	-	EXP	VAR	EAST WALL 4 [5] [6]

FINISH SCHEDULE NOTES

[1] PLYWOOD 8'-0" HIGH WAINSCOT BY GEN. CONTR. TO PROVIDE ZEE GIRT AT 4'-0", 8'-0" (&12'-0") SET TO RECEIVE PLYWOOD - PAINT PLYWOOD

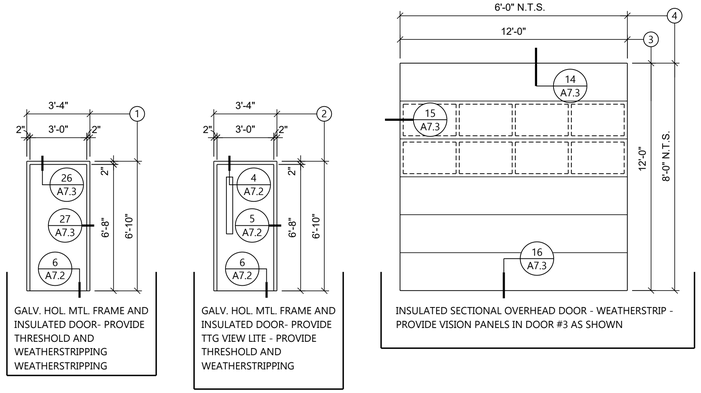
[2] PLYWOOD 8'-0" HIGH WAINSCOT ON STUDS BY GEN. CONTR. - PRE-FINISHED METAL ABOVE WAINSCOT TO SEAL TO DECK ABOVE BY GEN. CONTR.

[3] SEE LARGE SCALE PLAN SHEET A7.1

[4] PLYWOOD 8'-0" HIGH WAINSCOT ON GIRTS BY GEN. CONTR. - PRE-FINISHED METAL ABOVE WAINSCOT TO SEAL TO DECK ABOVE BY GEN. CONTR. - PROVIDE PLYWOOD WAINSCOT ON REMAINING WALL (FULL HEIGHT EAST WALL - BAY #2 & PARTIAL FULL HEIGHT WEST WALL - BAY #1)

[5] PROVIDE #1 SYP 1x6 BASE WHERE PLYWOOD WAINSCOT OCCURS

[6] PAINT ALL GENERAL CONTRACTOR INSTALLED WAINSCOT AND WOOD BASE



GALV. HOL. MTL. FRAME AND INSULATED DOOR- PROVIDE THRESHOLD AND WEATHERSTRIPPING WEATHERSTRIPPING

GALV. HOL. MTL. FRAME AND INSULATED DOOR- PROVIDE TTG VIEW LITE - PROVIDE THRESHOLD AND WEATHERSTRIPPING

INSULATED SECTIONAL OVERHEAD DOOR - WEATHERSTRIP - PROVIDE VISION PANELS IN DOOR #3 AS SHOWN

ITTG = 1" INSULATED TINTED TEMPERED

TTG = 1/4" TINTED TEMPERED

CTG = 1/4" CLEAR TEMPERED

HOLLOW METAL FRAME AND 1 3/4" SOLID CORE WOOD DOOR- PROVIDE CTG VIEW LITE IN DOOR #6

HOLLOW METAL FRAME AND 1 3/4" SOLID CORE WOOD DOOR - PROVIDE CTG SIDELIGHT - DOOR #8 MIRROR IMAGE

COLOR ANODIZED ALUMINUM STOREFRONT WINDOW WITH ITTG

KYNAR (70%) FINISH ALUMINUM LOUVER WITH BIRDSCREEN - LOUVER "B" PROVIDE FIRE DAMPER

DOOR SCHEDULE

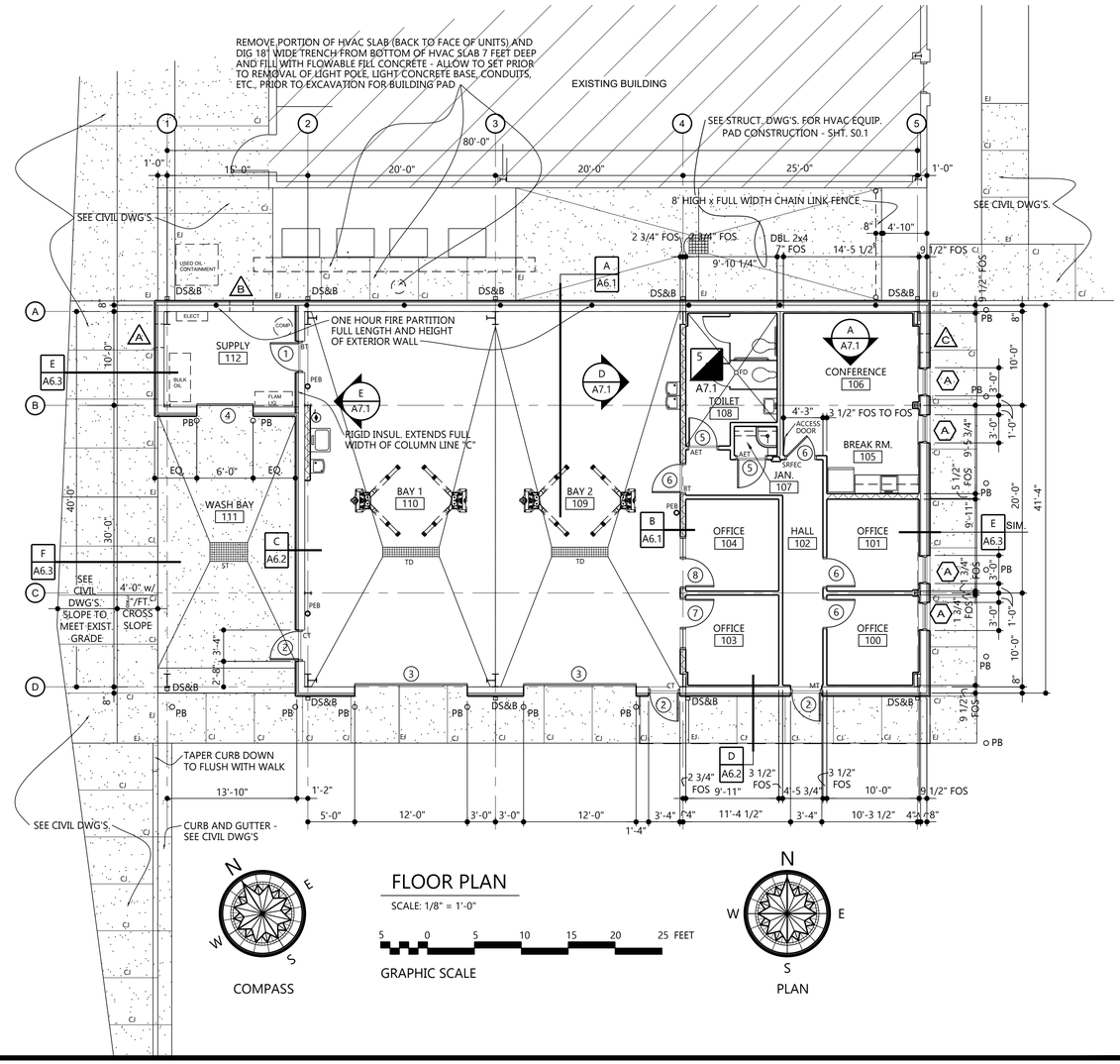
SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE

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

LOUVER SCHEDULE

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



COMPASS

FLOOR PLAN

SCALE: 1/8" = 1'-0"

5 0 5 10 15 20 25 FEET

GRAPHIC SCALE

PLAN

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA
REVISED
REVISED

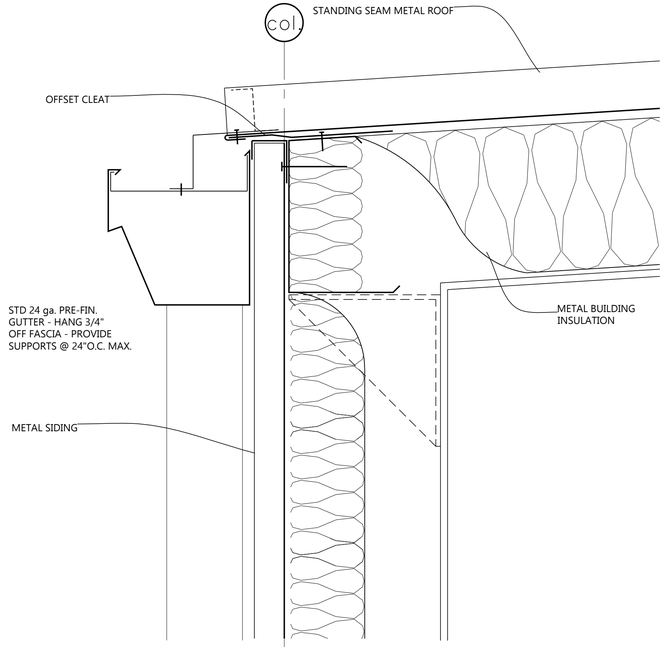
SHEET TITLE
FLOOR PLAN and DOOR, WINDOW, LOUVER and FINISH SCHEDULE

JOB NO. PH&J #2502-CUA DCM #2025417

SEQUENCE NO. 8 OF 41

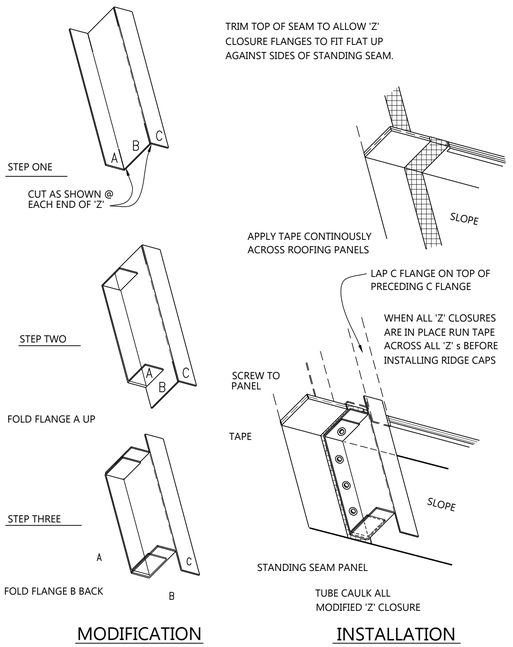
A2.0

PROJECT NAME AND JOB NUMBERS



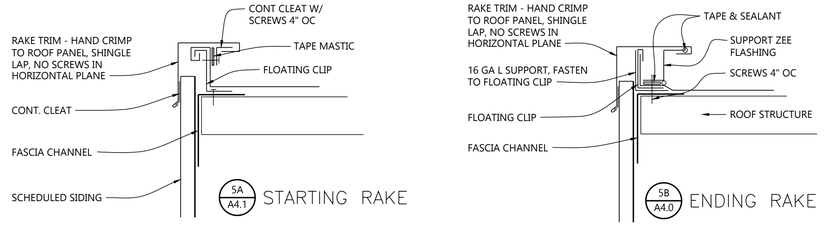
1 A4.0 EAVE DETAIL @ ROLL INSULATION

SCALE: 3" = 1'-0"



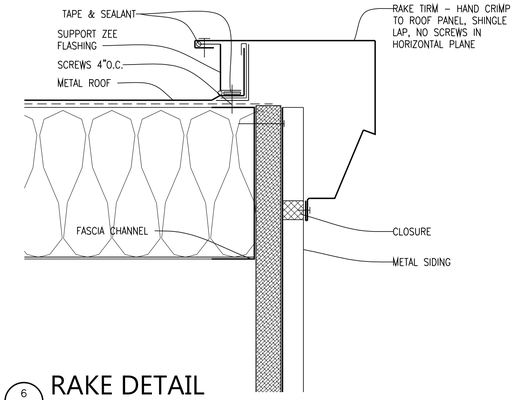
4 A4.0 MODIFICATION AND INSTALLATION OF 'Z' CLOSURE

(FOR STANDING SEAM ROOF PANELS)



5 A4.0 STARTING AND ENDING RAKE DETAIL

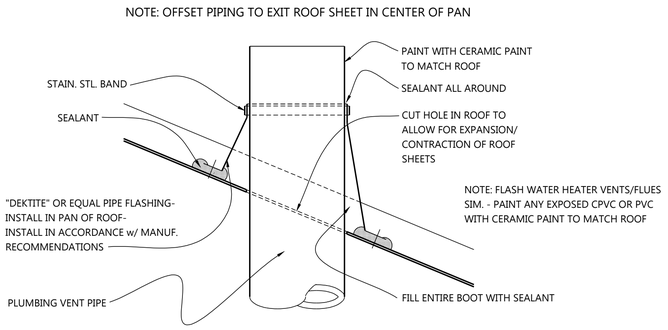
NOT TO SCALE



6 A4.0 RAKE DETAIL

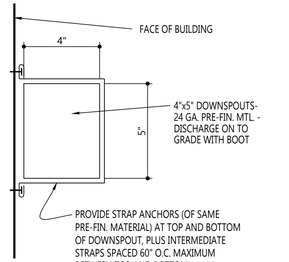
SCALE: 3/8" = 1'-0"

NOTE: OFFSET PIPING TO EXIT ROOF SHEET IN CENTER OF PAN



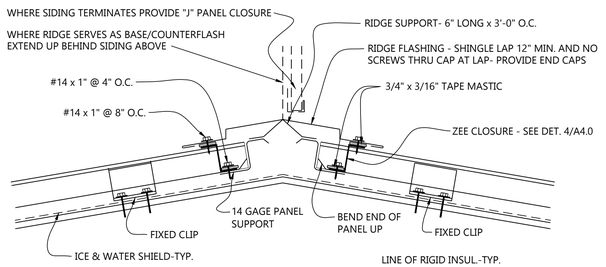
2 A4.0 TYPICAL PLUMBING VENT PENETRATION

NOT TO SCALE



7 A4.0 DOWNSPOUT

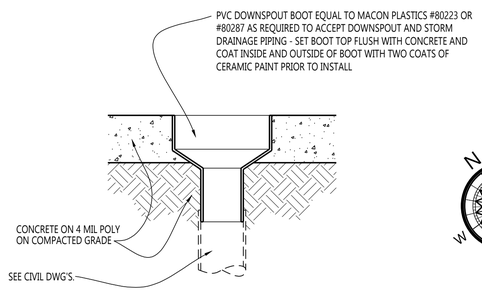
NOT TO SCALE



NOTE: FIELD WORK ZEE CLOSURES AND SEAL EACH PAN

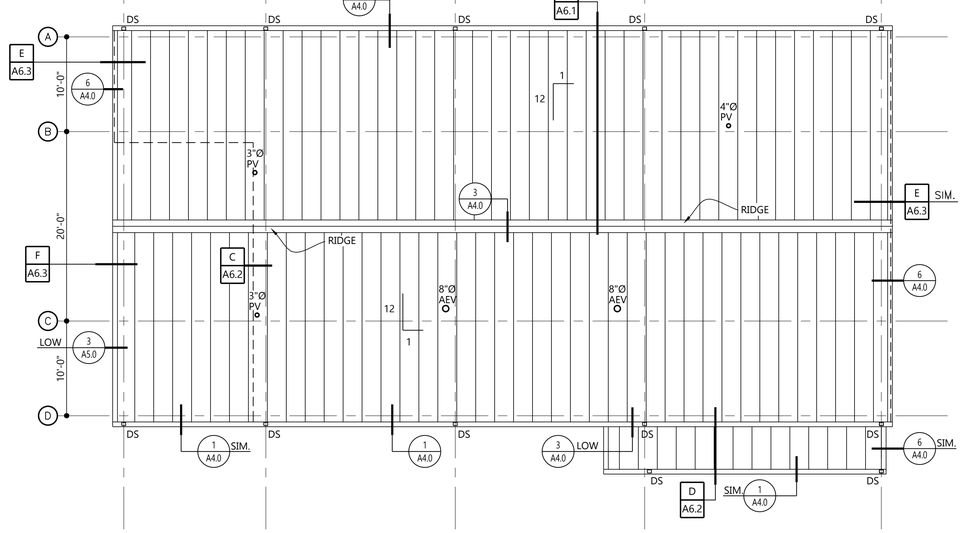
3 A4.0 TYPICAL FIXED RIDGE COVER

NOT TO SCALE



8 A4.0 DOWNSPOUT BOOT

NOT TO SCALE



N E S W

ROOF PLAN

SCALE: 1/8" = 1'-0"

5 0 5 10 15 20 25 FEET

GRAPHIC SCALE

LEGEND

1 / A4.0 — DETAIL / SHEET

EF — EXHAUST

E / A6.2 — SECTION / SHEET

PV — PLUMBING VENT

HV — HOT VENT/FLUE

DS — DOWNSPOUT

AEV — AUTO EXHAUST VENT

DS — DOWNSPOUT

COORDINATE LOCATION OF PLUMB., VENT/FLUE PENETRATIONS WITH PLUMBING AND HVAC SUBCONTRACTORS- PENETRATE ROOF (OR WALL) SHEET IN CENTER OF PAN

PJJ architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA — REGISTERED ARCHITECTS

P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG

DATE NOVEMBER 20, 2025 RTA

REVISED

REVISED

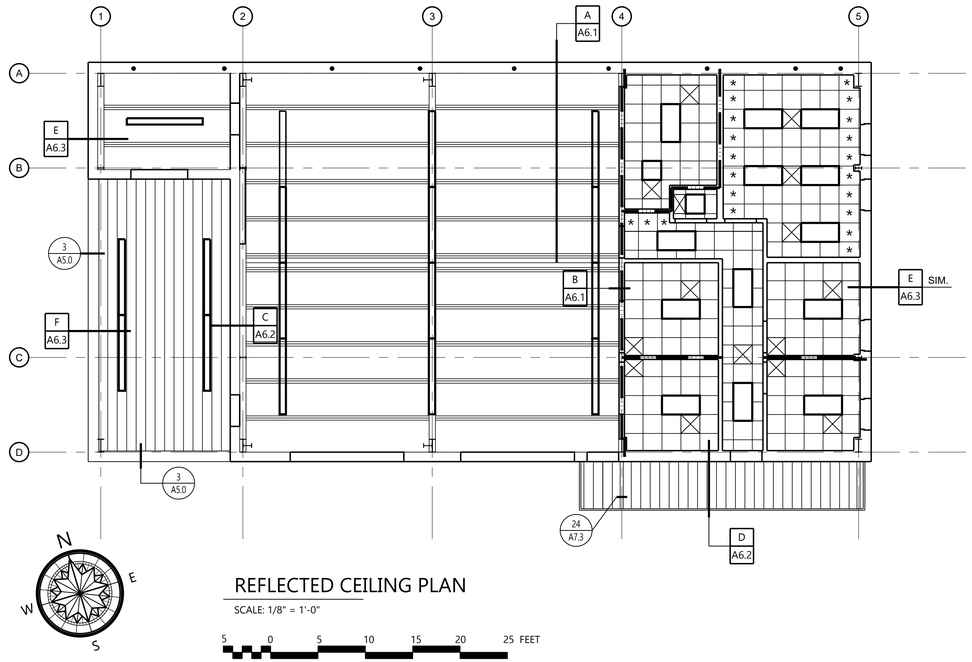
SHEET TITLE
ROOF PLAN and DETAILS

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 9 OF 41

A4.0

PROJECT NAME AND JOB NUMBERS



REFLECTED CEILING PLAN

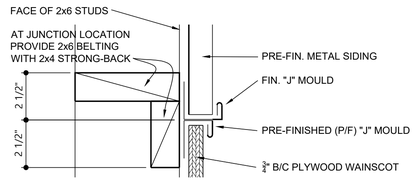
SCALE: 1/8" = 1'-0"

5 0 5 10 15 20 25 FEET

GRAPHIC SCALE

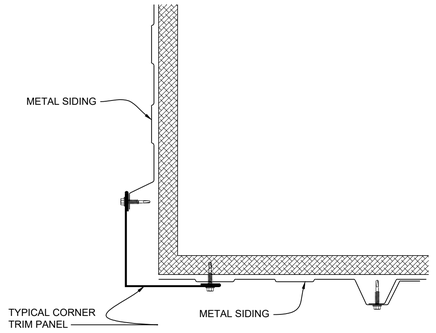
LEGEND

- 2x2 LAY-IN ACOUST. CLG.
- METAL CEILING
- LED LIGHT FIXTURE
- LIGHT FIXTURE
- EXIT LIGHT
- STRIP LED LIGHT FIXTURE
- HVAC GRILLE
- SOUND PARTITION
- ONE HOUR PARTITION
- CUT FROM OVERSIZE 2x4 ACOUST. TILE



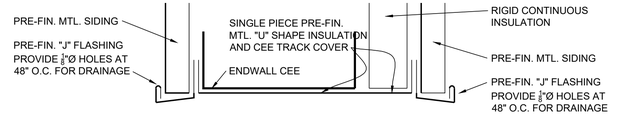
JUNCTION BETWEEN MTL. and PLYWOOD WAINSCOT

1 / A5.0 SCALE: 3" = 1'-0"



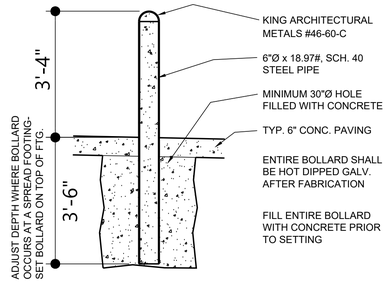
CORNER TRIM DETAIL

2 / A5.0 SCALE: 3" = 1'-0"



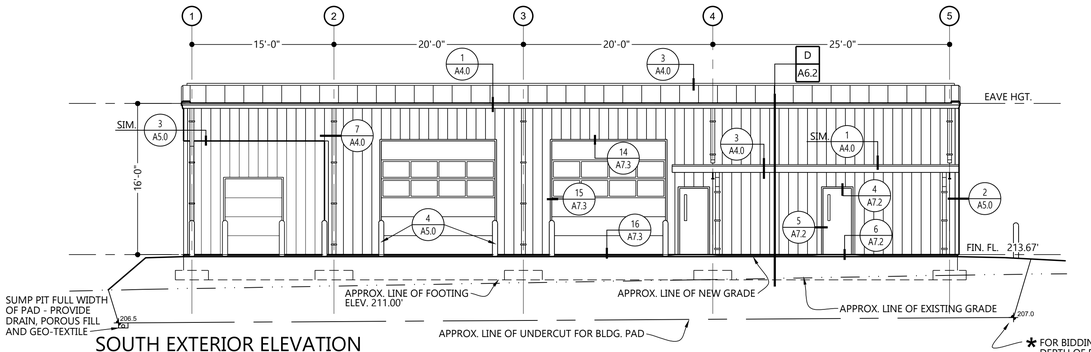
ENDWALL FRAMING COVER

3 / A5.0 SCALE: 3" = 1'-0"



BOLLARD DETAIL

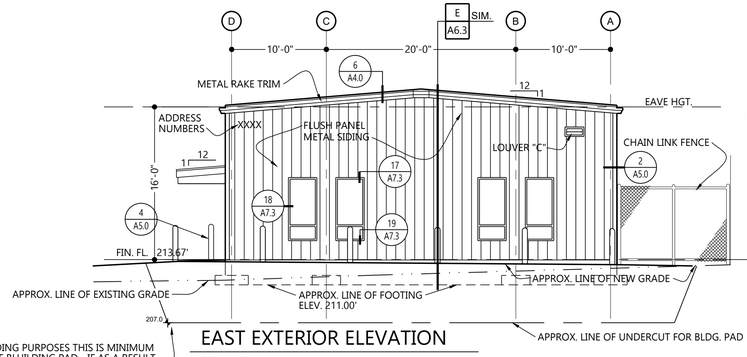
4 / A5.0 NO SCALE



SOUTH EXTERIOR ELEVATION

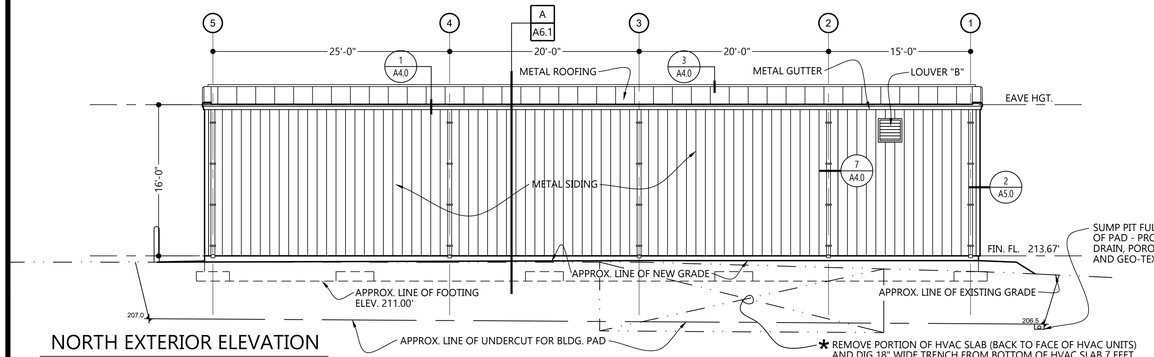
SCALE: 1/8" = 1'-0"

* FOR BIDDING PURPOSES THIS IS MINIMUM DEPTH OF BLUILDING PAD - IF AS A RESULT OF PROOF ROLLING ADDITIONAL FILL IS REQUIRED, UNIT PRICE SHALL GOVERN



EAST EXTERIOR ELEVATION

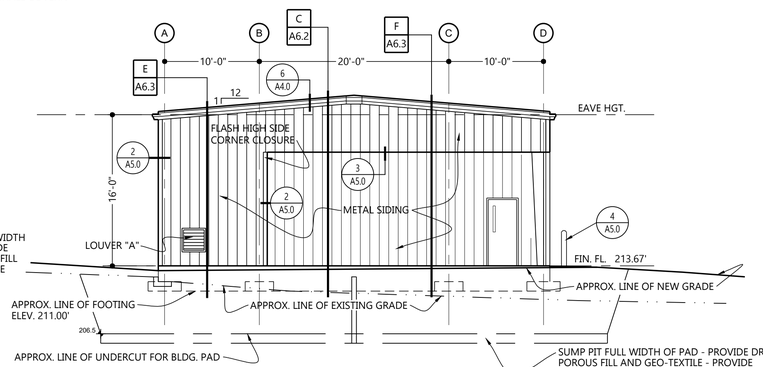
SCALE: 1/8" = 1'-0"



NORTH EXTERIOR ELEVATION

SCALE: 1/8" = 1'-0"

* REMOVE PORTION OF HVAC SLAB (BACK TO FACE OF HVAC UNITS) AND DIG 18" WIDE TRENCH FROM BOTTOM OF HVAC SLAB 7 FEET DEEP AND FILL WITH LEAN (FLOWABLE FILL) CONCRETE - ALLOW TO SET PRIOR TO REMOVAL OF POLE LIGHT, LIGHT BASE, CONDUITS, ETC. PRIOR TO EXCAVATION FOR STRUCTURAL FILL BULDING PAD



WEST EXTERIOR ELEVATION

SCALE: 1/8" = 1'-0"

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING

FOR

AIDT

MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS

P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW	CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA	
REVISED	
REVISED	

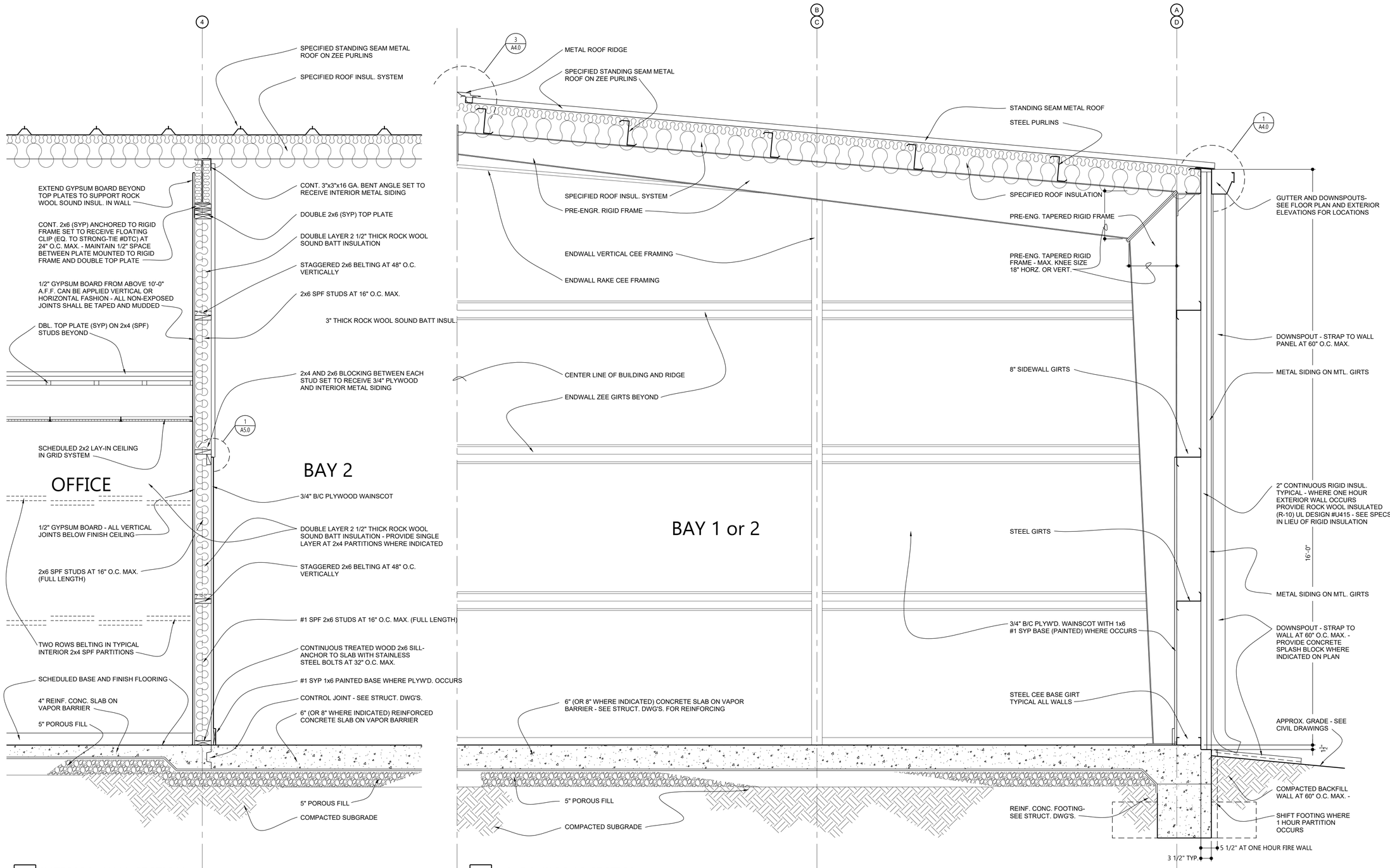
SHEET TITLE
EXTERIOR ELEVATIONS
CEILING PLAN and
DETAILS

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 10 OF 41

A5.0

PROJECT NAME AND JOB NUMBERS



B A6.1 INTERIOR WALL SECTION
SCALE 3/4" = 1'-0"

A A6.1 HALF BUILDING SECTION
SCALE 3/4" = 1'-0"

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW	CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA	
REVISED	
REVISED	

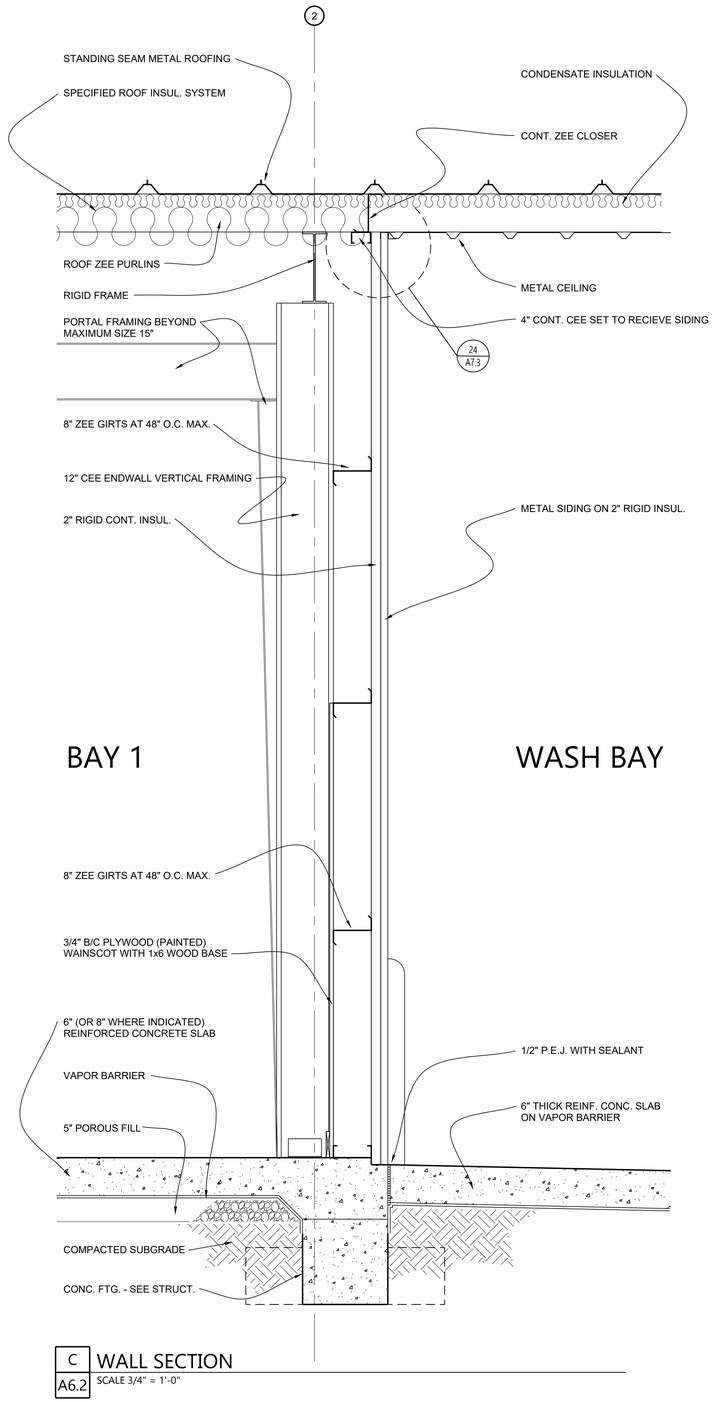
SHEET TITLE
WALL SECTIONS

JOB NO. PH&J #2502-CUA
DCM #2025417

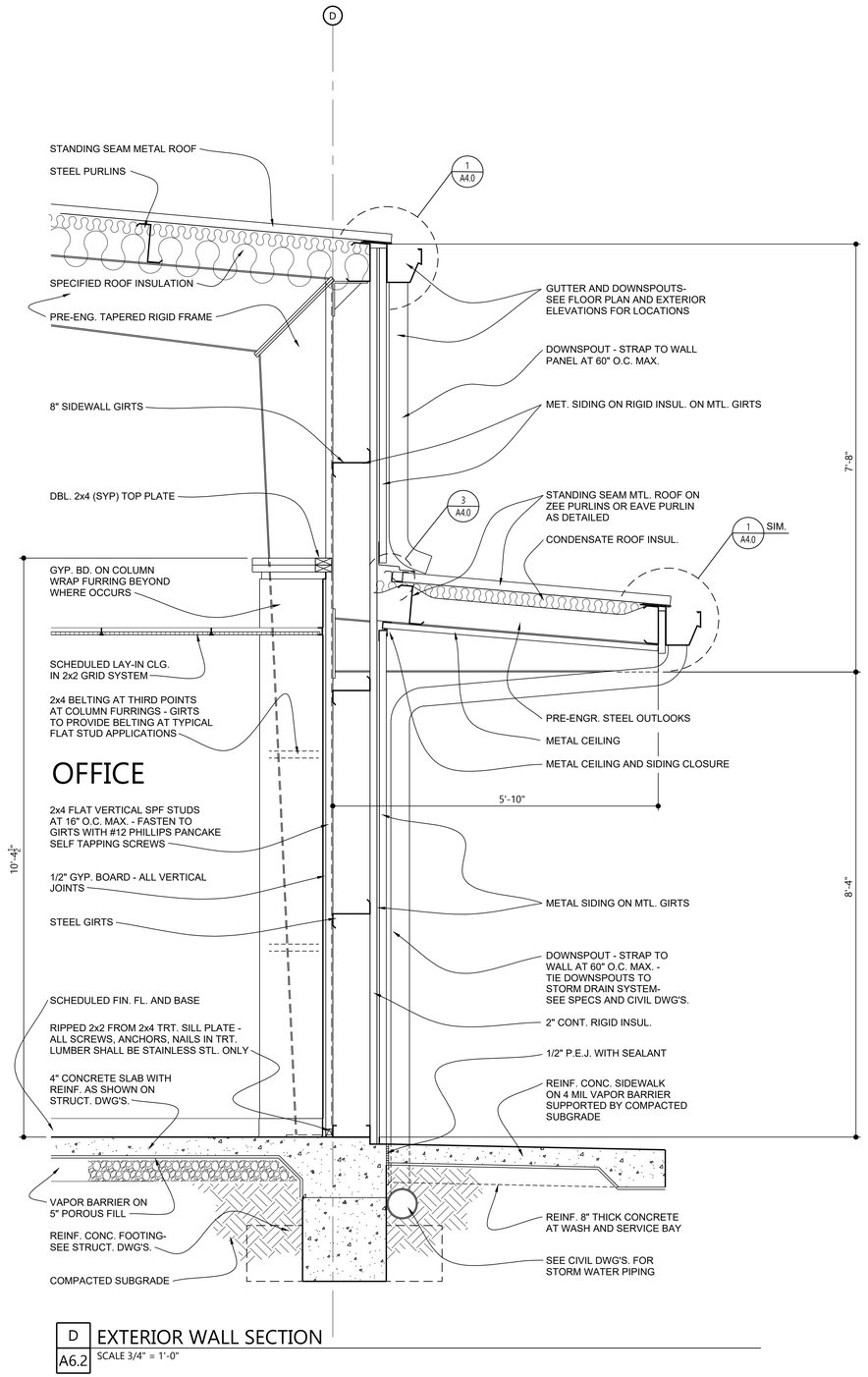
SEQUENCE NO. 11 OF 41

A6.1

PROJECT NAME AND JOB NUMBERS



C / A6.2 WALL SECTION
SCALE 3/4" = 1'-0"



D / A6.2 EXTERIOR WALL SECTION
SCALE 3/4" = 1'-0"

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA
REVISED
REVISED

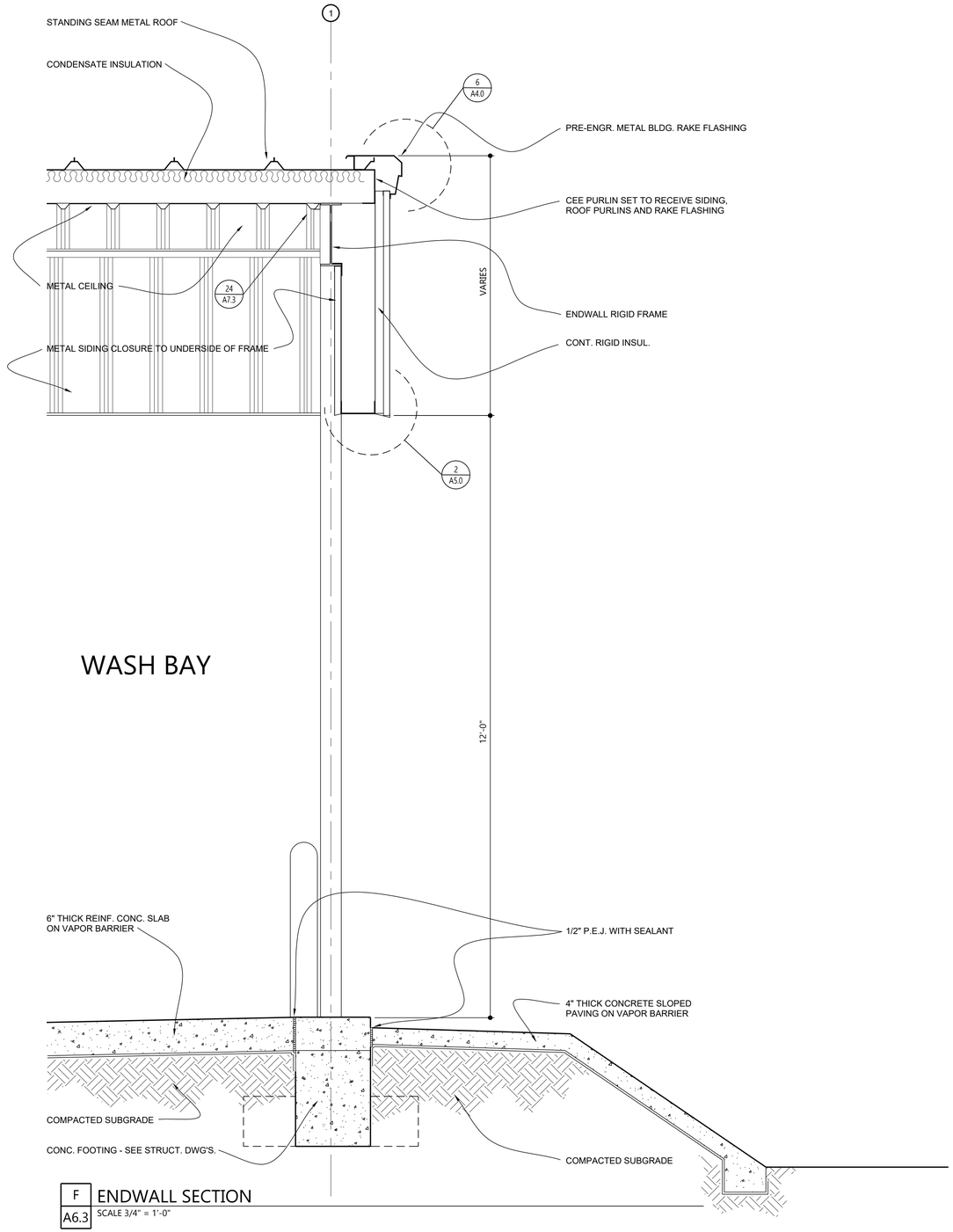
SHEET TITLE
WALL SECTIONS

JOB NO. PH&J #2502-CUA
DCM #2025417

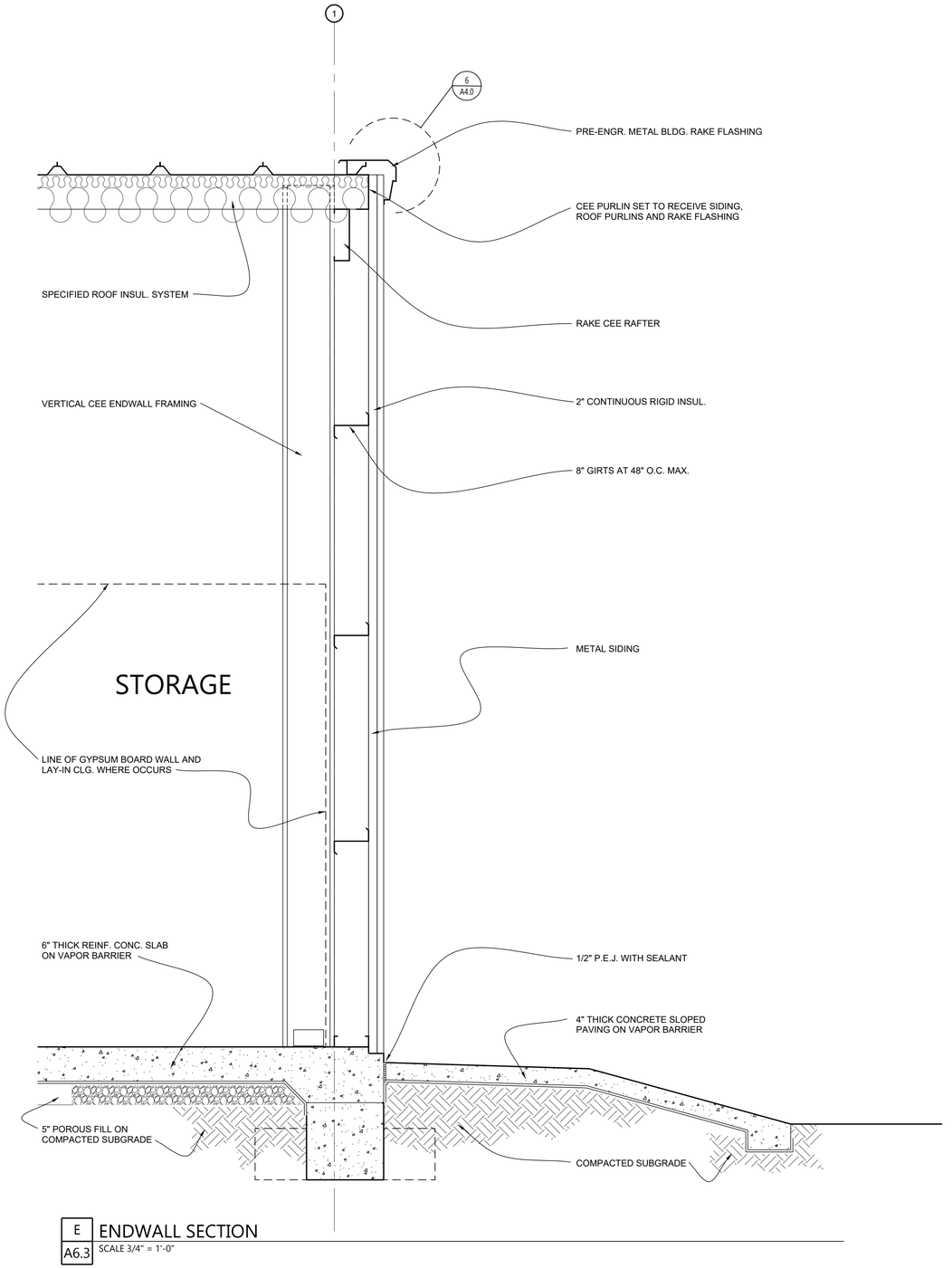
SEQUENCE NO. 12 OF 41

A6.2

PROJECT NAME AND JOB NUMBERS



F A6.3 ENDWALL SECTION
SCALE 3/4" = 1'-0"



E A6.3 ENDWALL SECTION
SCALE 3/4" = 1'-0"

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA
REVISED
REVISED

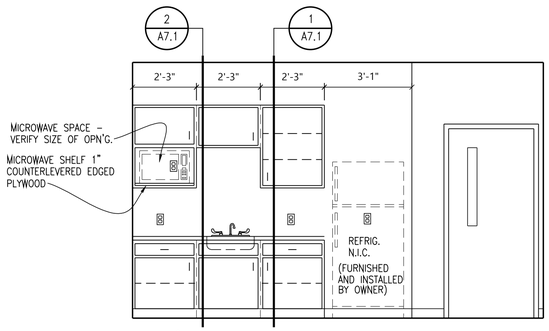
SHEET TITLE
WALL SECTIONS

JOB NO. PH&J #2502-CUA
DCM #2025417

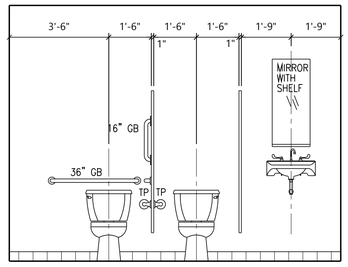
SEQUENCE NO. 13 OF 41

A6.3

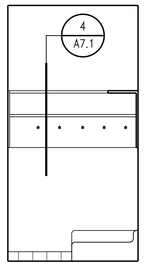
PROJECT NAME AND JOB NUMBERS



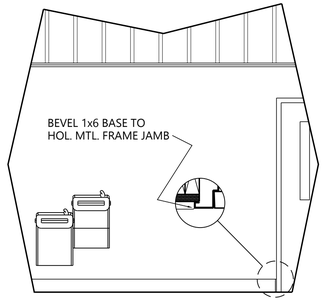
A A7.1 BREAK ROOM #106
SCALE: 3/8" = 1'-0"



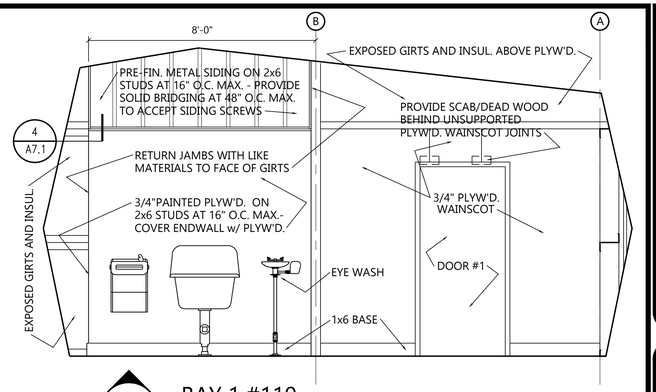
B A7.1 TOILET #108
SCALE: 3/8" = 1'-0"



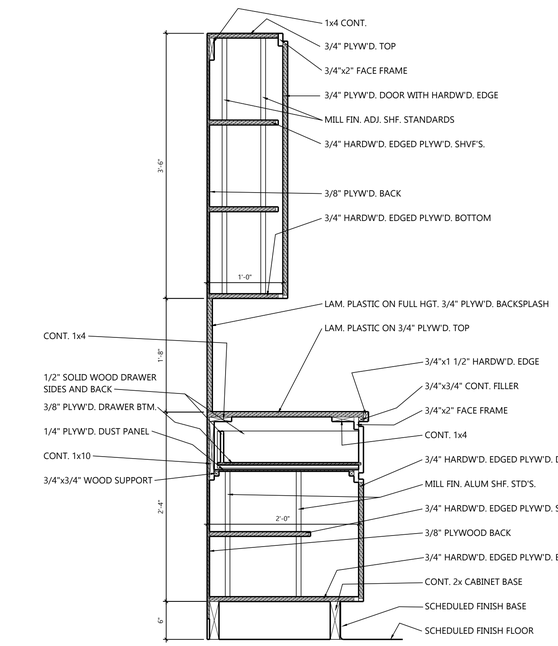
C A7.1 JANITOR #107
SCALE: 3/8" = 1'-0"



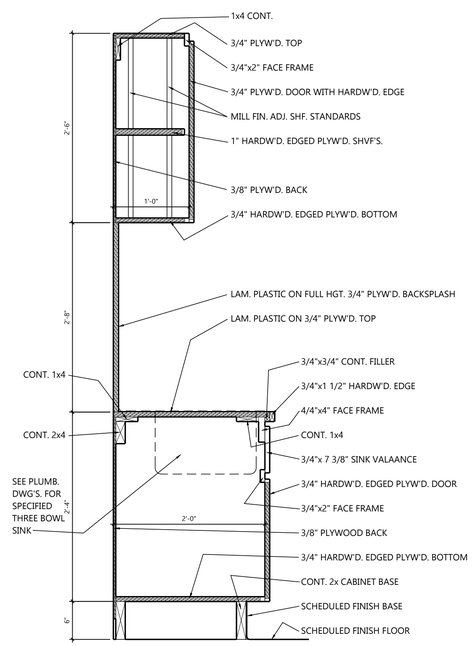
D A7.1 BAY 2 #109
SCALE: 3/8" = 1'-0"



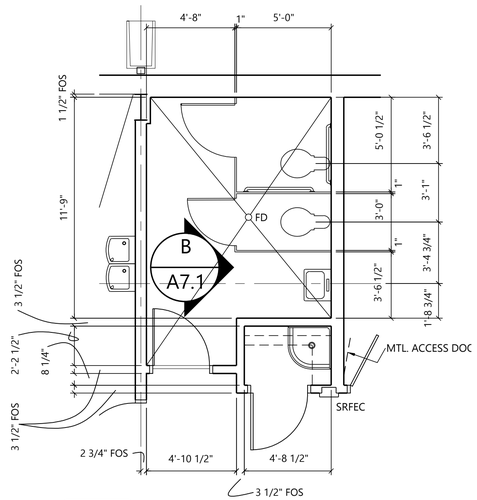
E A7.1 BAY 1 #110
SCALE: 3/8" = 1'-0"



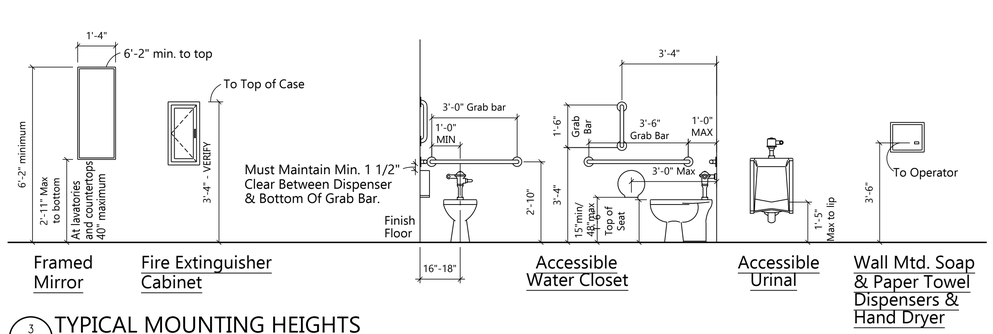
1 A7.1 BREAK ROOM BASE CABINET WITH DRAWER SECTION
SCALE: 1 " = 1'-0"



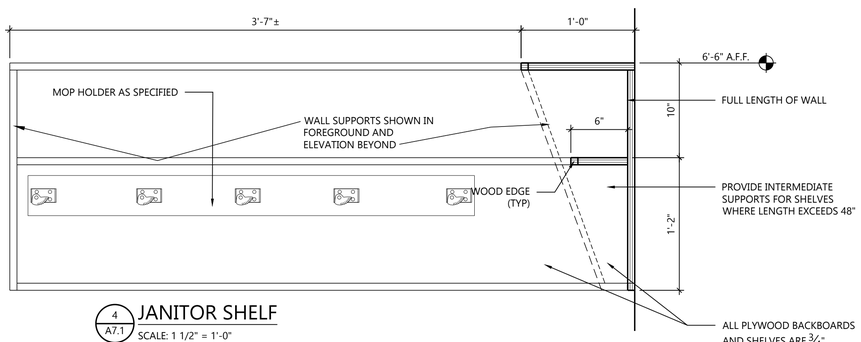
2 A7.1 BREAK ROOM SINK CABINET SECTION
SCALE: 1 " = 1'-0"



5 A7.1 LARGE SCALE PLAN of JANITOR #107 and TOILET #108
SCALE: 1/4" = 1'-0"



3 A7.1 TYPICAL MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"



4 A7.1 JANITOR SHELF
SCALE: 1 1/2" = 1'-0"
(PAINT GRADE MILLWORK)

PH&J Architects inc.
Montgomery, Alabama

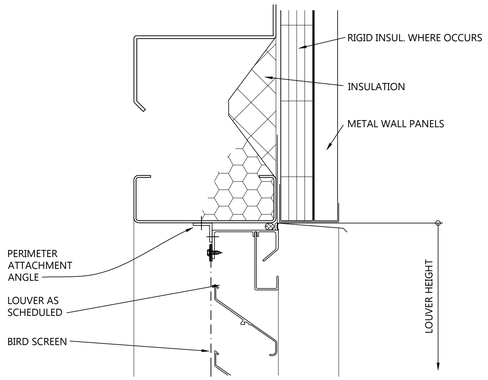
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA
REVISED
REVISED
SHEET TITLE
INTERIOR ELEVATIONS, DETAILS, TOILET LARGE SCALE PLAN
JOB NO. PH&J #2502-CUA DCM #2025417
SEQUENCE NO. 14 OF 41

A7.1

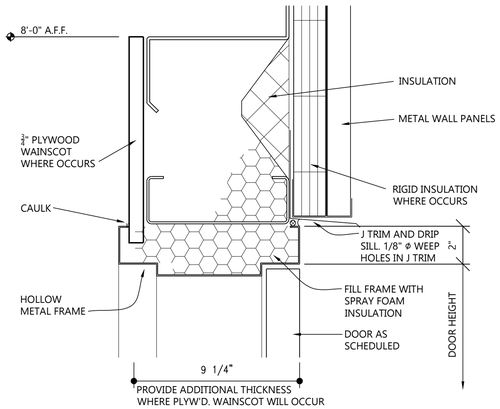
PROJECT NAME AND JOB NUMBERS



1 / A7.2 LOUVER HEAD DETAIL

SCALE : 3" = 1'-0"

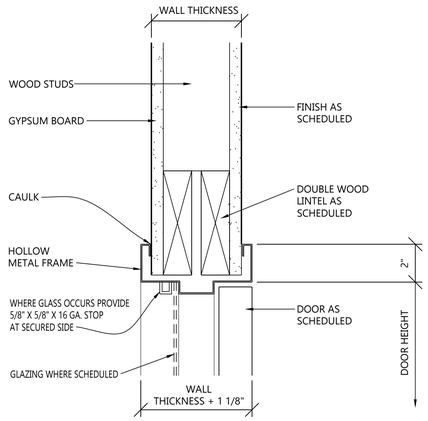
SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



4 / A7.2 DOOR HEAD DETAIL

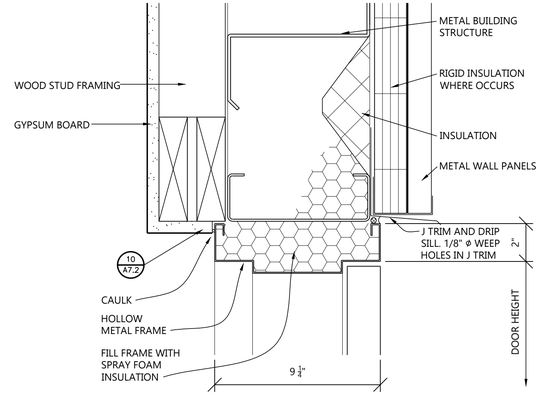
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



7 / A7.2 DOOR HEAD DETAIL

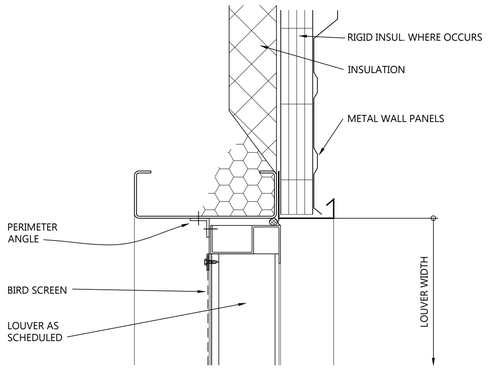
SCALE : 3" = 1'-0"



11 / A7.2 DOOR HEAD DETAIL

SCALE : 3" = 1'-0"

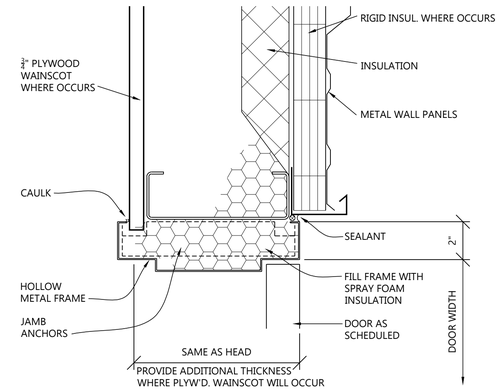
SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



2 / A7.2 LOUVER JAMB DETAIL

SCALE : 3" = 1'-0"

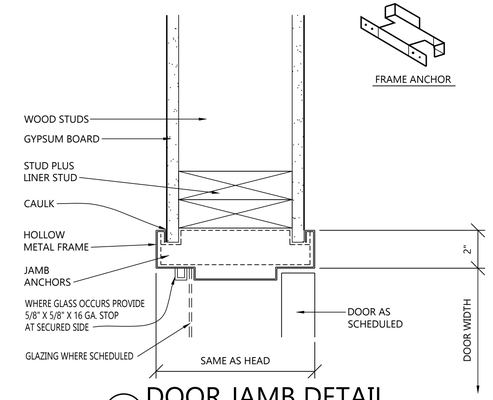
SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



5 / A7.2 DOOR JAMB DETAIL

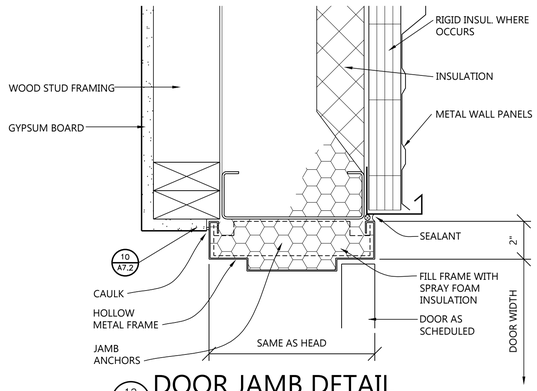
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



8 / A7.2 DOOR JAMB DETAIL

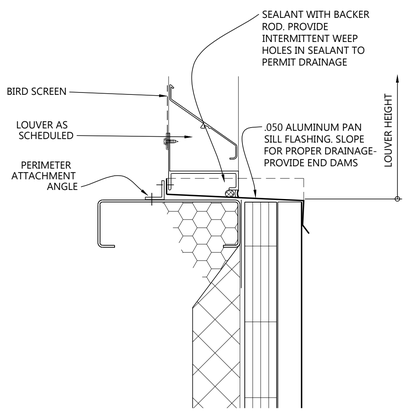
SCALE : 3" = 1'-0"



12 / A7.2 DOOR JAMB DETAIL

SCALE : 3" = 1'-0"

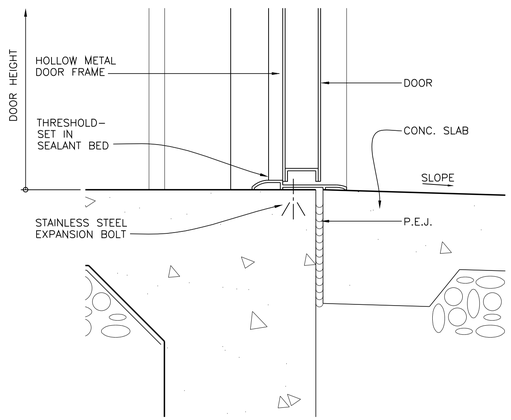
SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



3 / A7.2 LOUVER SILL DETAIL

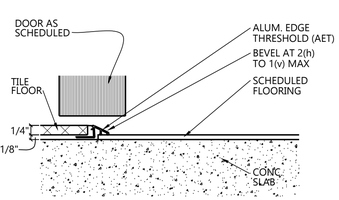
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



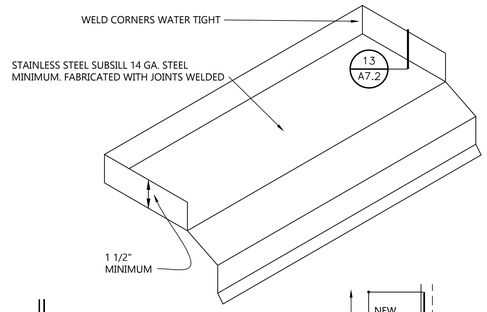
6 / A7.2 DOOR SILL DETAIL

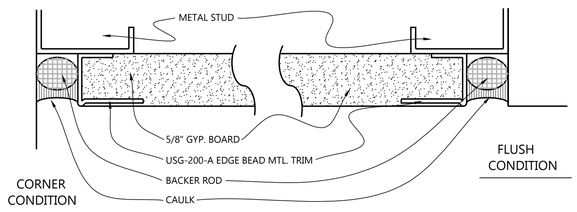
SCALE : 3" = 1'-0"



9 / A7.2 AET DOOR SILL DETAIL

NO SCALE

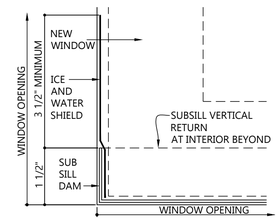




10 / A7.2 JUNCTURE AT DRYWALL

NO SCALE

NOTE: USE EDGE BEAD ("U" OR "J" SHAPE) AS SHOWN- "L" SHAPED EDGE BEAD WILL NOT BE ACCEPTED



NOTE:
FLUID APPLIED MEMBRANE AIR BARRIER FLASHING SYSTEM SHALL RETURN FULL DEPTH INTO OPENING - INSTALL IN SHINGLE FASHION

13 / A7.2 TYPICAL SUB SILL DETAIL

NOT TO SCALE

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

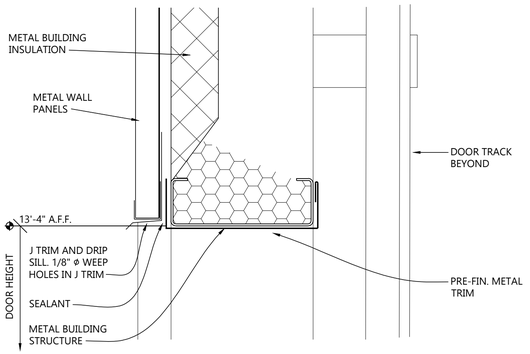
PH&J architects inc.
Alabama
Montgomery,

STATE of ALABAMA
REGISTERED ARCHITECTS
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW	CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA	
REVISED	
REVISED	
SHEET TITLE: DETAILS	
JOB NO. PH&J #2502-CUA DCM #2025417	
SEQUENCE NO. 15 OF 41	

A7.2

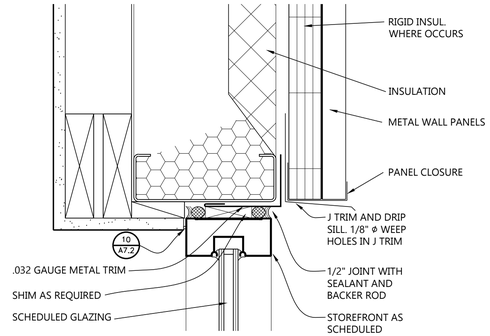
PROJECT NAME AND JOB NUMBERS



14 / A7.3 DOOR HEAD DETAIL

SCALE : 3" = 1'-0"

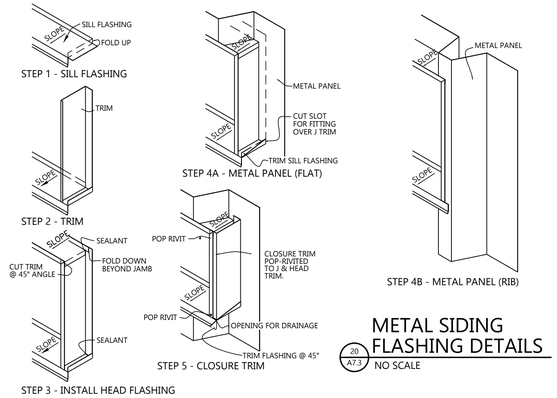
SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



17 / A7.3 EXTERIOR WINDOW HEAD DETAIL

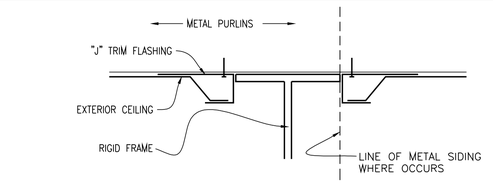
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



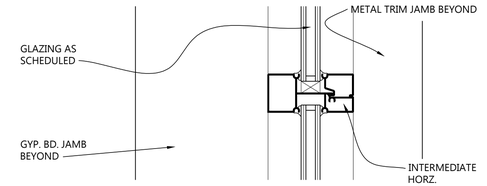
METAL SIDING FLASHING DETAILS

20 / A7.3 NO SCALE



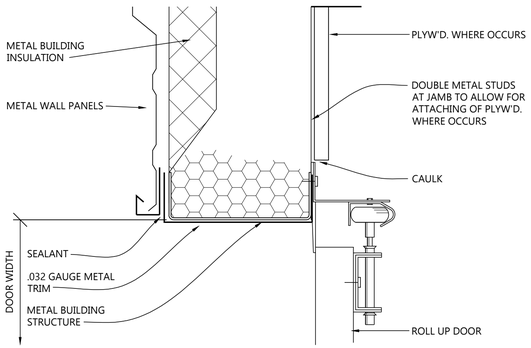
24 / A7.3 DETAIL at EXTERIOR CEILING

SCALE: 3" = 1'-0"



EXTERIOR WINDOW INTERMEDIATE HORZ.

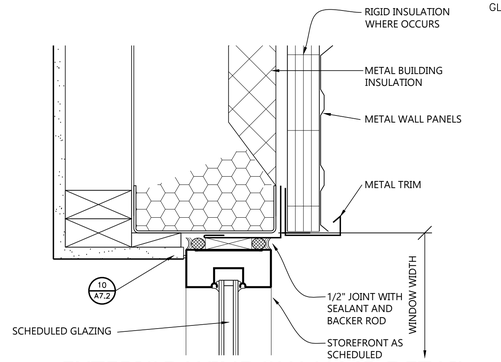
25 / A7.3 SCALE : 3" = 1'-0"



15 / A7.3 DOOR JAMB DETAIL

SCALE : 3" = 1'-0"

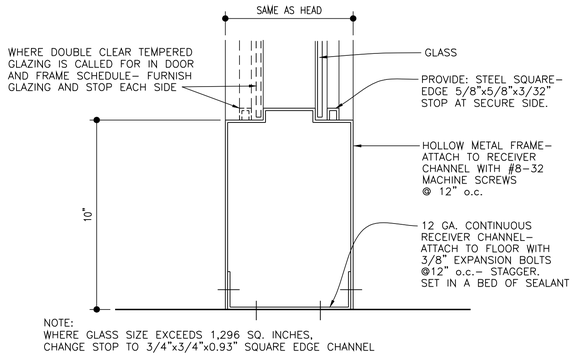
SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



18 / A7.3 EXTERIOR WINDOW JAMB DETAIL

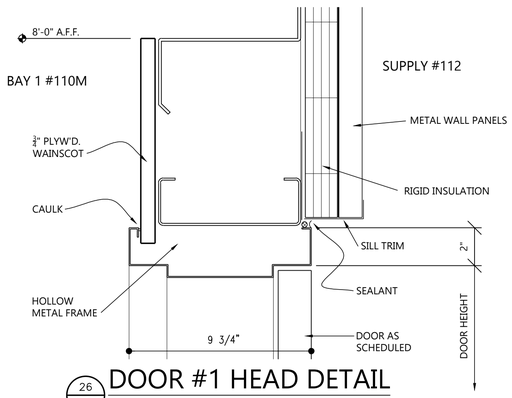
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



21 / A7.3 HOLLOW METAL SILL

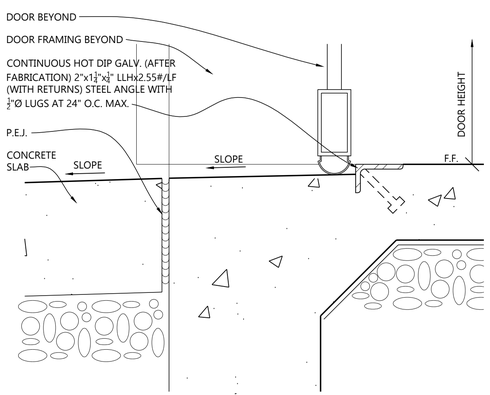
SCALE: 3" = 1'-0"



26 / A7.3 DOOR #1 HEAD DETAIL

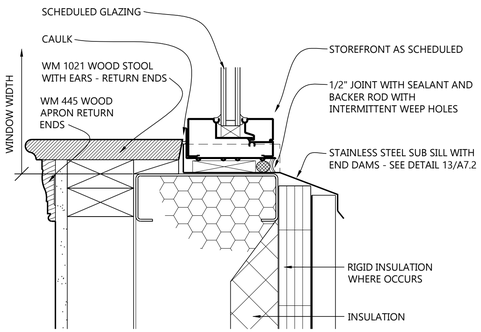
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



16 / A7.3 DOOR SILL DETAIL

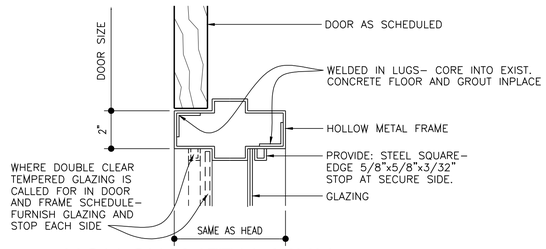
SCALE : 3" = 1'-0"



19 / A7.3 EXTERIOR WINDOW SILL DETAIL

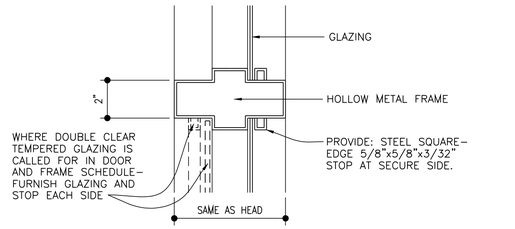
SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS



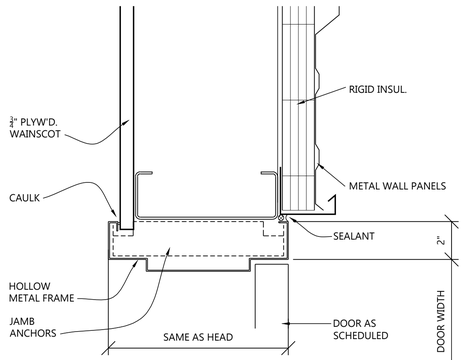
HOLLOW METAL MULL at DOOR (HEAD SIMILAR)

22 / A7.3 SCALE: 3" = 1'-0"



23 / A7.3 HOLLOW METAL MULL at GLAZING

SCALE: 3" = 1'-0"



27 / A7.3 DOOR #1 JAMB DETAIL

SCALE : 3" = 1'-0"

SEE DETAIL 20/A7.3 FOR ADDITIONAL METAL DETAILS

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

STATE of ALABAMA — REGISTERED ARCHITECTS

P. T. ADDISON	4564
H. G. GANDY	3928
R. O. JONES III	4503

DRAWN HW	CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA	
REVISED	
REVISED	

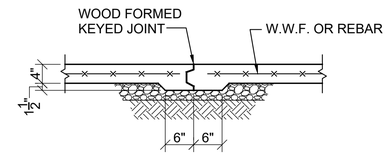
SHEET TITLE
DETAILS

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 16 OF 41

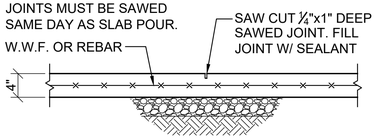
A7.3

PROJECT NAME AND JOB NUMBERS

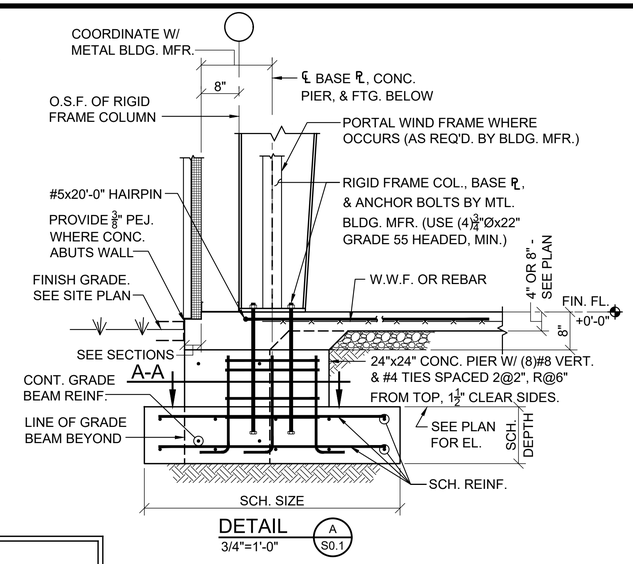


TYPICAL SLAB CONSTRUCTION
JOINT DETAIL-(C.J.)

NOTE:
IF SAWED JOINTS ARE USED,
JOINTS MUST BE SAWED
SAME DAY AS SLAB POUR.



ALTERNATE SLAB CONSTRUCTION
JOINT DETAIL (SAWED JOINT)

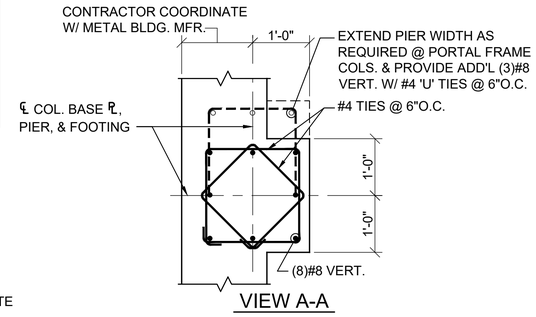


DETAIL A
3/4"=1'-0" S0.1

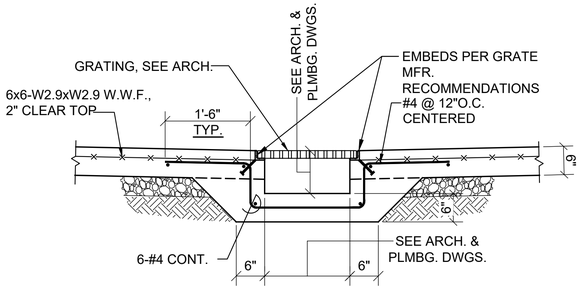
FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING
A	3'-0" x 3'-0"	12"	(3)#4 EA. WAY TOP (4)#4 EA. WAY BOTTOM *
B	3'-6" x 3'-6"	12"	(3)#4 EA. WAY TOP (5)#4 EA. WAY BOTTOM *
C	4'-0" x 4'-0"	12"	(4)#4 EA. WAY TOP (6)#4 EA. WAY BOTTOM

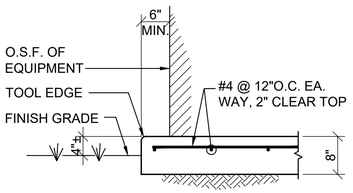
*=PROVIDE 180° HOOK EACH END ALL BARS.



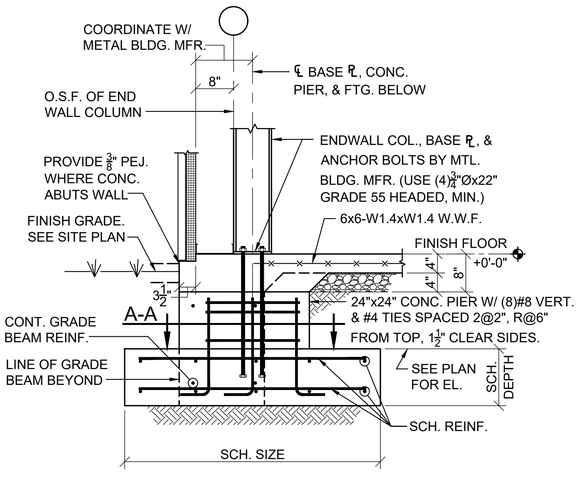
VIEW A-A



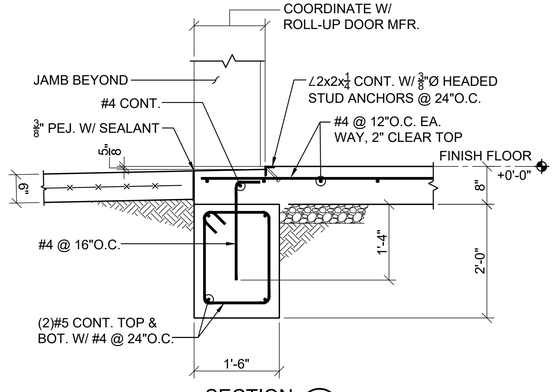
TYPICAL TRENCH DRAIN



TYPICAL EQUIPMENT PAD DETAIL



DETAIL B
3/4"=1'-0" S0.1



SECTION 1
3/4"=1'-0" S0.1

GENERAL NOTES

FOUNDATION:
1. THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
2. ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS. PROVIDE 6" THICK (MINIMUM) ENGINEERED FILL PAD AS PER GEOTECHNICAL RECOMMENDATIONS.
3. FOOTINGS WERE DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING OF P = 2500 PSF. FOR COLUMN SPREAD FOOTINGS AND P = 2000 PSF. FOR CONTINUOUS WALL FOOTINGS. ALLOWABLE SOIL BEARING SHALL BE VERIFIED BY TESTING AGENCY PRIOR TO FOOTINGS BEING POURED.
4. ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
5. ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
6. PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
7. IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.

CONCRETE:
1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F'c = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 OR ASTM A1064.
4. UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS) : FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR. WALLS 1 1/2" CLEAR SIDES. BEAMS 1 1/2" CLEAR TO STIRRUPS. FORMED CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
5. LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE.
6. PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
7. STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
8. DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.

STRUCTURAL STEEL:
1. ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM, A36, LATEST EDITION (EXCEPT STEEL TUBE SECTIONS).
2. STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46.0 KSI.
3. HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS (Fu = 65 KSI).
4. STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
5. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
6. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM.
7. CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS. WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE, FABRICATOR SHALL DESIGN CONNECTION FOR CAPACITY EQUIVALENT TO DBL-ANGLE CONNECTION WITH MAX NO. BOLTS UNLESS DETAILED OTHERWISE.

PRE-ENGINEERED METAL BUILDING:
1. THE COMPLETE DESIGN OF METAL BUILDING INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE BUILDING MANUFACTURER.
2. THE DESIGN SHALL BE MADE BY A REGISTERED ENGINEER, REGISTERED IN THE STATE OF ALABAMA AND HE SHALL AFFIX HIS REGISTRATION NUMBER TO ALL SHOP DRAWINGS AND CALCULATIONS.
3. THE BUILDING AND ALL OF ITS COMPONENTS SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS;
   a.) ACTUAL WEIGHT OF STEEL STRUCTURE.
   b.) 8 PSF DEAD (COLLATERAL) LOAD IN ADDITION TO ACTUAL WEIGHT OF STRUCTURE AND ROOFING MATERIALS.
   c.) 20 PSF ROOF LIVE LOAD.
   d.) ANY ADDITIONAL LOADS AND REACTIONS THAT ARE SHOWN ON THE DRAWINGS.
   e.) WIND LOADING AS REQUIRED BY INTERNATIONAL BUILDING CODE.
4. NO LIVE LOAD REDUCTION SHALL BE TAKEN FOR THE DESIGN OF THE RIGID FRAMES.
5. THE DEFLECTION OF GIRTS SHALL BE LIMITED TO 1/240 OF THE SPAN AND DEFLECTION OF PURLINS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTION OF RIGID FRAMES SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTIONS SHALL BE BASED ON TOTAL LOAD (DEAD PLUS LIVE LOADS). TOTAL RIGID FRAME DRIFT SHALL BE LIMITED TO H/240, WHERE H IS EQUAL TO THE EAVE HEIGHT.
6. COLUMN BASES SHALL BE DESIGNED AS PINNED CONNECTIONS. MOMENTS AT COLUMN BASE PLATES ARE NOT ACCEPTABLE.
7. LOCATE PORTAL FRAMES WHERE INDICATED ON PLAN. PORTAL FRAME COLUMNS SHALL BE NESTED TIGHT TO WEB OF RIGID FRAME COLUMN (WITH COMMON BASE PLATE).

CODES:
ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
AMERICAN CONCRETE INSTITUTE (ACI)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
AMERICAN WELDING SOCIETY (AWS)
OSHA STEEL ERECTION STANDARD (OSHA)
NATIONAL LUMBER MANUFACTURER'S ASSOCIATION (NLMA)
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
INTERNATIONAL BUILDING CODE (IBC 2021) (ICC)

DESIGN LIVE LOADS:
ROOF.....20 PSF.
RISK CATEGORY (PER IBC 2021/ASCE 7-16).....II
WIND.....INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
ULTIMATE DESIGN WIND SPEED (Vult).....113 MPH
NOMINAL DESIGN WIND SPEED (Vasd).....88 MPH
WIND EXPOSURE.....C
INTERNAL PRESSURE COEFFICIENTS.....+/-0.18
SEISMIC....INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
SEISMIC IMPORTANCE FACTOR.....Ie=1.0
MAPPED SPECTRAL ACCELERATION (SHORT-TERM).Ss=0.131g
MAPPED SPECTRAL ACCELERATION (1-SECOND)...S1=0.075g
SITE CLASS.....D
SHORT-PERIOD SPECTRAL RESPONSE ACCEL.....Sds=0.140g
1-SECOND SPECTRAL RESPONSE ACCEL.....Sd1=0.120g
SEISMIC DESIGN CATEGORY.....B
SEISMIC FORCE-RESISTING SYSTEM:
STEEL RIGID MOMENT FRAMES
DESIGN BASE SHEAR (ULTIMATE).....2.6k
SEISMIC RESPONSE COEFFICIENT.....Cs=0.047
RESPONSE MODIFICATION FACTOR.....R=3
ANALYSIS PROCEDURE.....ASCE 7 (SECT 12.8)

SNOW.....INTERNATIONAL BUILDING CODE
GROUND SNOW LOAD.....Pg=5 PSF

COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES:
NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES.
SEE FIGURE 30.4-1 OF ASCE 7-16 FOR INDICATED ZONES.

ROOF:TRIBUTARY AREA A = 10 SF
ZONE 1: -45.5 PSF/11.7 PSF
ZONE 2: -60.0 PSF/11.7 PSF
ZONE 3: -81.7 PSF/11.7 PSF
ZONE 1': -26.1 PSF/11.7 PSF
ROOF:TRIBUTARY AREA A = 100 SF
ZONE 1: -35.5 PSF/9.2 PSF
ZONE 2: -47.2 PSF/9.2 PSF
ZONE 3: -56.1 PSF/9.2 PSF
ZONE 1': -26.1 PSF/9.2 PSF
WALL:TRIBUTARY AREA A = 10 SF
ZONE 4: -31.0 PSF/28.6 PSF
ZONE 5: -38.2 PSF/28.6 PSF
WALL:TRIBUTARY AREA A = 50 SF
ZONE 4: -28.0 PSF/25.6 PSF
ZONE 5: -32.3 PSF/25.6 PSF
WALL:TRIBUTARY AREA A = 100 SF
ZONE 4: -26.7 PSF/24.2 PSF
ZONE 5: -29.6 PSF/24.2 PSF
CORNER ZONE = 4.1 FT

SPECIAL INSPECTIONS:
ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF IBC SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA LICENSED
NO. 22214
PROFESSIONAL
ENGINEER
BLACKBURN DANIELS O'BARR
11-20-25

DRAWN RLC	CHECK RMO
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

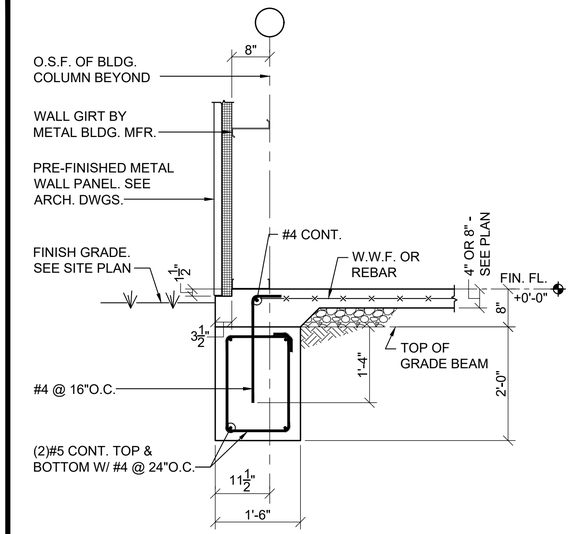
SHEET TITLE
FOUNDATION & ROOF FRAMING PLANS

JOB NO. PH&J #2502-CUA
DCM #2025417

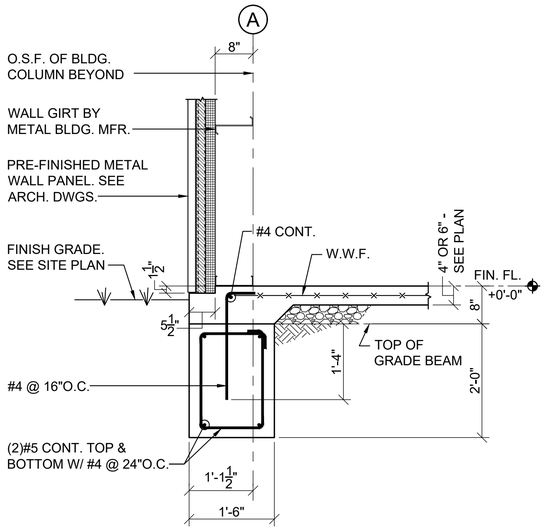
SEQUENCE NO. 17 OF 41

S0.1

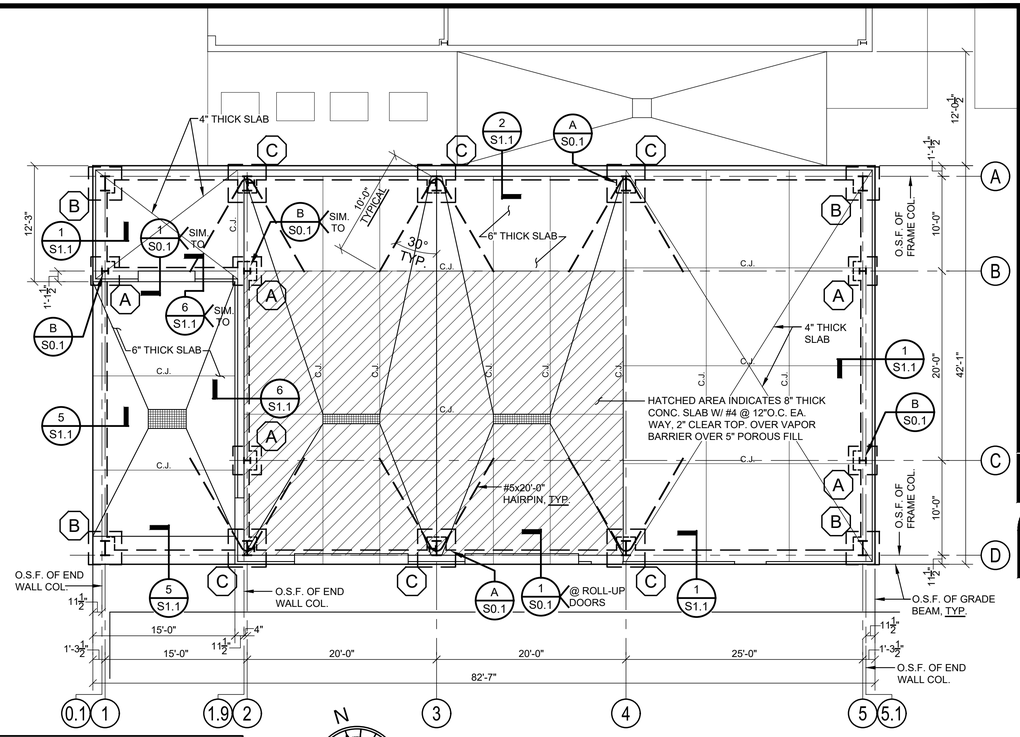
PROJECT NAME AND JOB NUMBERS



SECTION 1 S1.1
3/4"=1'-0"



SECTION 2 S1.1
3/4"=1'-0"

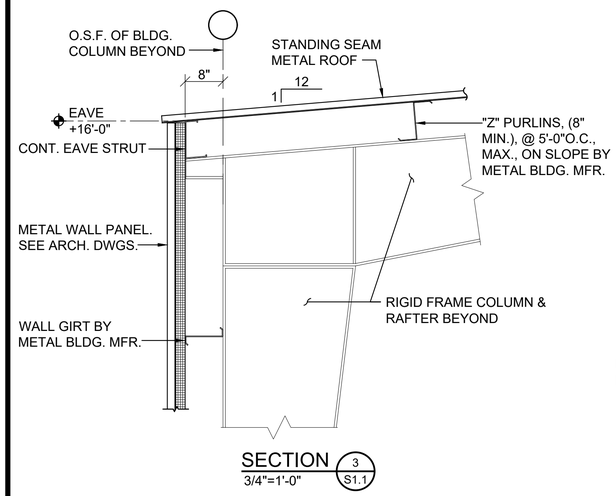


FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

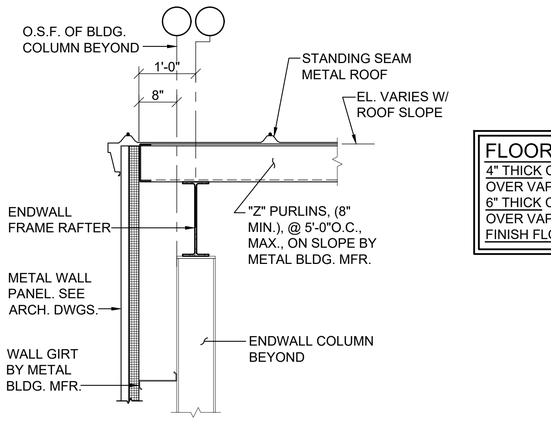
FLOOR CONSTRUCTION

4" THICK CONCRETE SLAB W/ 6x6-W1.4xW1.4 W.W.F. OVER VAPOR BARRIER OVER 5" POROUS FILL.
6" THICK CONCRETE SLAB W/ 6X6-W2.9XW2.9 W.W.F. OVER VAPOR BARRIER OVER 5" POROUS FILL.
FINISH FLOOR EL.= 213'-8" (+0'-0")

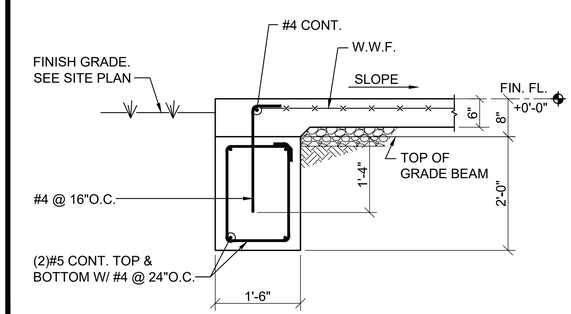
NOTE:
UNLESS NOTED OTHERWISE, TOP OF FOOTING EL.= 212'-0" (-1'-8")



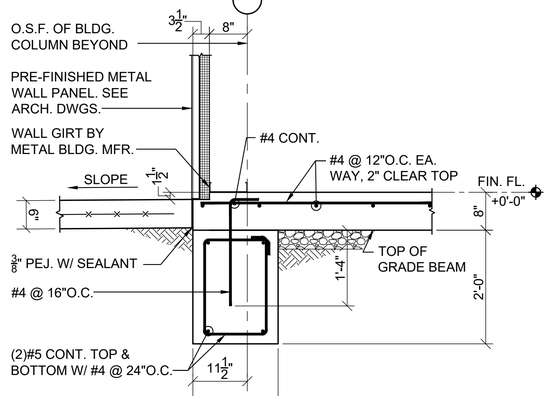
SECTION 3 S1.1
3/4"=1'-0"



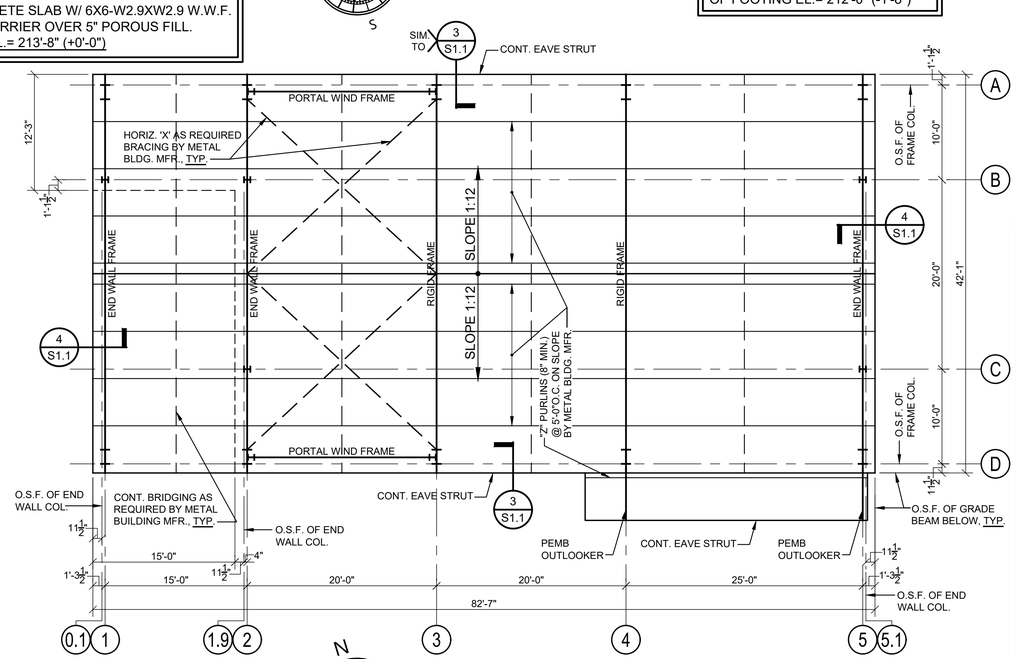
SECTION 4 S1.1
3/4"=1'-0"



SECTION 5 S1.1
3/4"=1'-0"



SECTION 6 S1.1
3/4"=1'-0"



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

PH&J architects inc.
Montgomery, Alabama

ALABAMA LICENSED NO. 22214 PROFESSIONAL ENGINEER RICHARD MARK OTTER
11-20-25

DRAWN RLC	CHECK RMO
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	

SHEET TITLE
FOUNDATION & ROOF FRAMING PLANS

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 18 OF 41

S1.1

PROJECT NAME AND JOB NUMBERS

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P2	WATER CLOSET	3"	1"	---	FL. MTD.
P3	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MTD. HEIGHT
P4	MOP SINK	3"	1/2"	1/2"	TRAP STANDARD
P5	SPLIT LEVEL EWC	1 1/2"	1/2"	---	WALL HUNG - HIGH/LOW W/ BOTTLE FILLER
P6	EWC	1 1/2"	1/2"	---	WALL HUNG
P7	EMERGENCY EYEWASH	F.D.	1/2"	1/2"	---
P8	SINK (BREAK ROOM)	1 1/2"	1/2"	1/2"	2-COMP. MTD. IN COUNTER
P9	REFRIG. ICE MAKER	---	1/2"	---	ROUGH-IN AND CONN.
P10	MOP SINK	1 1/2"	1/2"	1/2"	FLOOR MOUNTED
P11					
P12					
P13					
P14					
T.P.	TRAP PRIMER	---	1/2"	---	ABOVE CLG. / CONN. TO F.D.

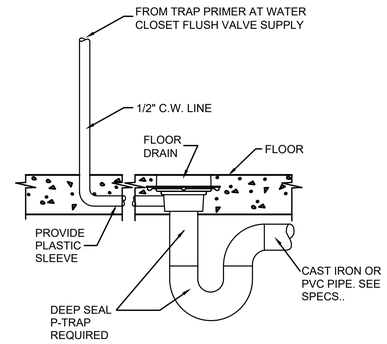
** PROVIDE A WATER TEMPERATURE LIMITING DEVICE EQUAL TO SYMMONS #5-210-CK (ASSE STD. 1070) WITH 1/2" TEMPERED WATER LINE TO FAUCET.

NOTES

1. ROUGH WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
2. PROVIDE A DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN.
3. PROVIDE A VACUUM BREAKER FOR EACH WALL HYDRANT AND HOSE BIBB.
4. RUN ALL WATER PIPING WITHIN BUILDING INSULATION ENVELOPE.
5. COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL CONTRACTOR. DO NOT RUN PIPING OVER ELECTRICAL TRANSFORMERS, PANELS AND EQUIPMENT. MAINTAIN CLEARANCE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. (GENERALLY MIN. 3 FEET).
6. ALL WASTE AND VENT PIPING INSIDE RETURN AIR PLENUM SPACES SHALL BE CAST IRON PIPE AND FITTINGS AS SPECIFIED.
7. MAINTAIN MIN. OF 10 LINEAR FEET FROM PLUMBING VENTS TO HVAC FRESH AIR (OUTSIDE AIR) INTAKES.
8. H/C - HANDICAP - FIXTURES AND INSTALLATION SHALL MEET AMERICANS WITH DISABILITIES ACT (A.D.A.) REQUIREMENTS.
9. FLUSH VALVE HANDLE FOR HANDICAP WATER CLOSET SHALL BE LOCATED ON WIDE SIDE OF TOILET STALL AREA TO MEET A.D.A. REQUIREMENTS.
10. ROUGH HANDICAP WATER CLOSET 18" FROM FINISHED WALL TO CENTERLINE OF WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF STALL TO FINISHED WALL.
11. PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER PLUMBING CODE AND SPECS..
12. WATER SUPPLY SYSTEM IS DESIGNED FOR STATIC PRESSURE OF 50 TO 75 PSI. GAUGE CITY WATER SUPPLY TO VERIFY THAT THE PRESSURE IS WITHIN THOSE LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE, IF REQUIRED TO MEET DESIGNED WATER PRESSURE.
13. PROVIDE A BALL VALVE ON EACH SIDE OF EVERY DIELECTRIC UNION TO FACILITATE ITS REMOVAL.

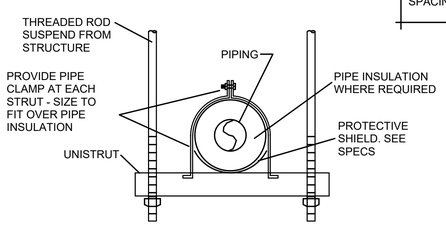
LEGEND

- WASTE PIPE
- VENT PIPE
- COLD WATER PIPE
- HOT WTR. PIPE (125°)
- HOT WTR. RECIRC. PIPE
- G — GAS PIPE
- S — STORM WATER PIPE
- AR — ACID RESIST. WASTE PIPE
- AR — ACID RESIST. VENT PIPE
- UNION
- GATE VALVE
- CHECK VALVE
- BALL VALVE
- B.V. BALL VALVE
- C.I. CAST IRON
- C.O. CLEANOUT
- D.S. DOWNSPOUT
- FCO FLOOR CLEANOUT
- F.D. FLOOR DRAIN
- F.S. FLOOR SINK
- G.V. GATE VALVE
- H/C HANDICAPPED
- H.D. HUB DRAIN
- W.H. WALL HYDRANT
- R.D. ROOF DRAIN
- INDICATES POINT OF CONNECTION TO EXISTING
- INDICATES POINT OF CONNECTION TO OUTSIDE UTILITY. SEE CIVIL DWGS..



TRAP PRIMER DETAIL

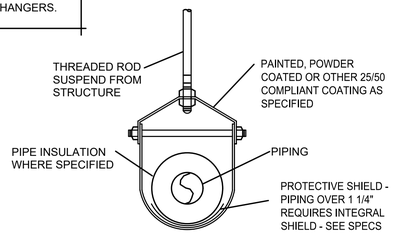
NO SCALE



TYP. PIPE HANGER DETAIL

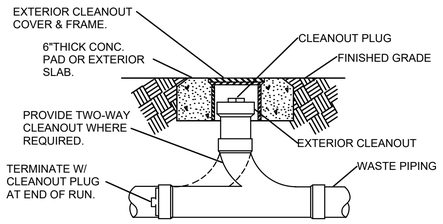
NO SCALE

SEE SPECS. FOR SPACING OF HANGERS.



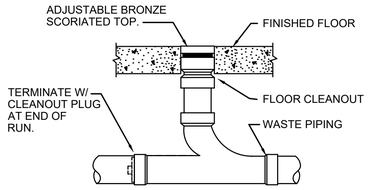
TYP. PIPE HANGER DETAIL

NO SCALE



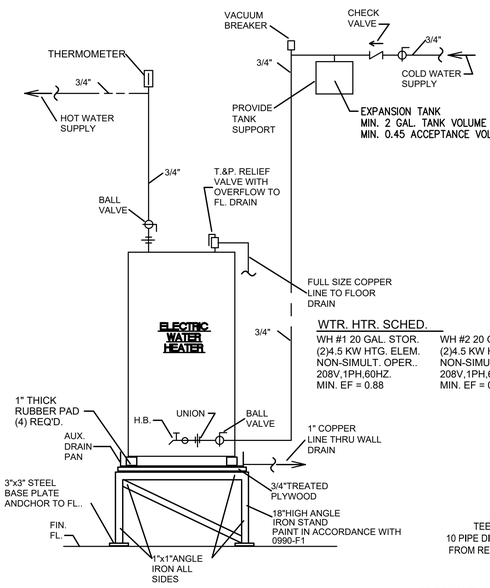
TYP. EXTERIOR CLEANOUT DETAIL

NO SCALE



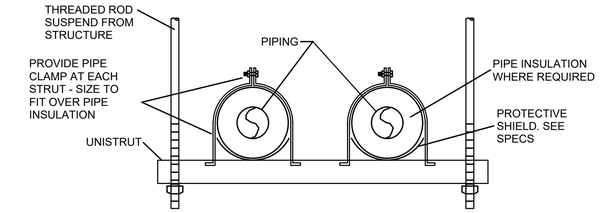
TYP. FLOOR CLEANOUT DETAIL

NO SCALE



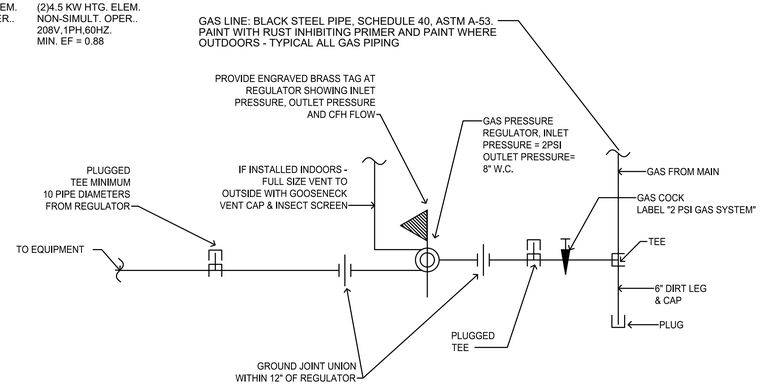
DETAIL OF PIPING AT ELECTRIC WATER HEATER WH-2

NO SCALE



TYP. PIPE HANGER DETAIL

NO SCALE



TYPICAL GAS PIPING CONN. DETAIL

NOT TO SCALE

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

PH&J architects inc.
Montgomery, Alabama

ALABAMA LICENSED LICENSE 23369 PROFESSIONAL ENGINEER JR EIRING
11-11-25

DRAWN JRE	CHECK JRE
DATE	OCTOBER 20, 2025
REVISED	
REVISED	

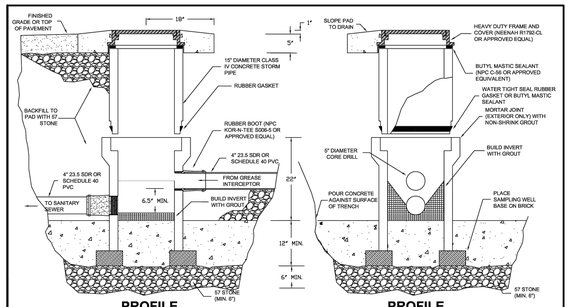
SHEET TITLE: Plumbing Schedules & Details

JOB NO. PH&J #2502-CUA DCM #2025417

SEQUENCE NO. 19 OF 35

P1.1

PROJECT NAME AND JOB NUMBERS



NOTE:
PARK ENVIRONMENTAL EQUIPMENT SAMPLE WELL (BASIN MODEL SWB15) OR FULL SIZE MANHOLE CAN BE SUBSTITUTED FOR THE ABOVE DESIGN. FULL SIZE MANHOLES WILL REQUIRE VACUUM TESTING PRIOR TO SERVICE.

WATER WORKS & SANITARY SEWER BOARD
Montgomery Alabama

MISCELLANEOUS DETAILS

TITLE:		DRAWING NO.:
GREASE INTERCEPTOR SAMPLING WELL ALTERNATIVE		371
DESIGNED: TL	DATE: 09/06	SCALE: NOT TO SCALE
CHECKED: XX	REVISED:	

SPECIFICATIONS

1. 4' Plain End inlet/outlet, 3' Plain End vents, C24-HP covers standard.
2. Certified max flow rate: 100 GPM.
3. Liquid capacity: 250 Gallons (33.4 cu. ft.).
4. Oil capacity: 62.5 Gallons.
5. Solids capacity: 95 Gallons.
6. Unit weight w/ standard covers: 345 lbs.
7. Maximum operating temperature 140 °F continuous.

NOTES

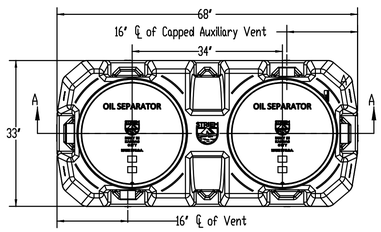
1. Engineered inlet diffuser efficiently separates oil from water.
2. Capped auxiliary vent provided to allow flexibility with vent piping and design. Provided cap can be moved to unused vent location, or discarded if two chamber vents are required per local code.
3. For gravity drainage applications only.
4. Do not use for pressure applications.
5. Cover placement allows full access to tank for proper maintenance.
6. Maximum burial depth: 90" from standard cover height.

ENGINEER SPECIFICATION GUIDE

Striem high efficiency oil/water separator model DS-100 shall be lifetime guaranteed and made in the USA. Separator shall be certified to IAPMO IGC 325 and carry a UPC listing. Separator shall be constructed of polyethylene. Separator shall be manufactured for above- or below-grade installation. Field-adjustable riser system is available as an option to bring manhole covers to grade. Separator flow rate shall be 100 GPM. Separator liquid holding capacity shall be 250 gallons and oil capacity shall be 62.5 gallons. Solids capacity shall be 95 gallons. Covers shall be H20 rated pickable cast iron.

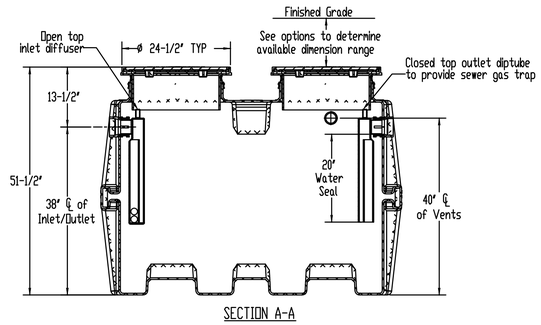
IAPMO IGC 325 CERTIFICATION

The DS-100 has been third party certified by IAPMO to the IGC 325 standard. The DS-100 achieved an average 99% efficiency with 3.2 mg/L at 100 GPM up to the maximum oil capacity of 62.5 gallons. The structural design has been approved and stamped by a licensed structural engineer for direct burial in accordance with Striem's installation instructions.



TOP VIEW

Connection Options (Plain End Only)
Inlet / Outlet
☐ 4"
☐ 6"
Riser Options
From Factory: Up to 5'
☐ Up to 24": SR24 (2)
☐ Up to 39": LR24 (2)
☐ Up to 43": SR24 (4)
☐ Up to 58": SR24 (2) + LR24 (2)
☐ Up to 72": LR24 (4)
☐ Up to 90": SR24 (2) + LR24 (4)
-OR -
☐ CPRK (2): 11" - 90" (See specification for more detail.)
Additional Options
☐ HDK-2: High Water Table Hold Down Kit
☐ C24-M (2): 2,000 lbs. Rated Bolted Composite Covers
☐ SS: Slick Stick℠ Oil Level Monitoring System*
*Monitoring system will raise covers by 3".



SECTION A-A

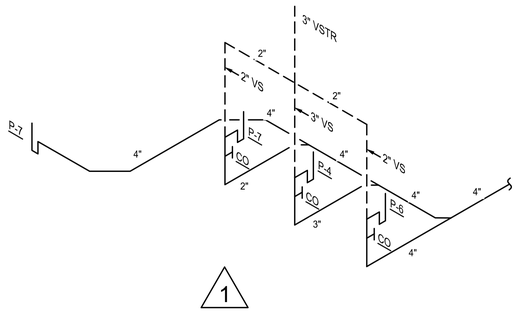
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STRIEM, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF STRIEM, LLC. IS PROHIBITED.

MODEL NUMBER:	DS-100	
DESCRIPTION:	100 GPM POLYETHYLENE HIGH EFFICIENCY OIL/WATER SEPARATOR	
DWG BY: ENG	DATE: 9/16/2025	REV: 3

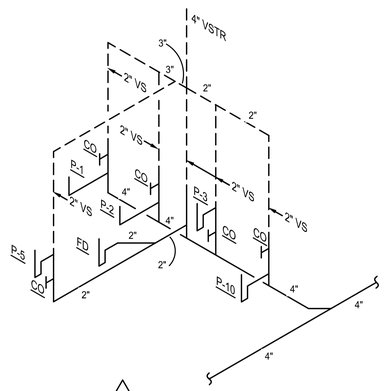
Striem
Kansas City, KS
Tel: 913-222-1500
orders@striemco.com
www.striemco.com

Made in the U.S.A

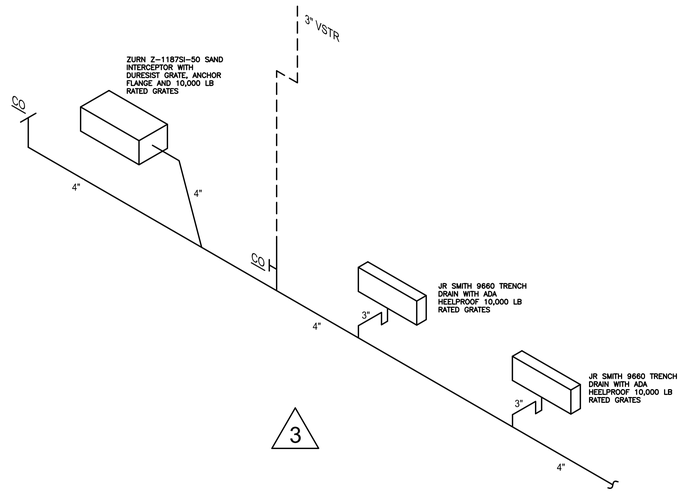
STRIEM



1



2



3

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA LICENSED PROFESSIONAL ENGINEER
LIC. NO. 23369
JR. EIRING
11-11-25

DRAWN JRE	CHECK JRE
DATE OCTOBER 20, 2025	
REVISED	
REVISED	

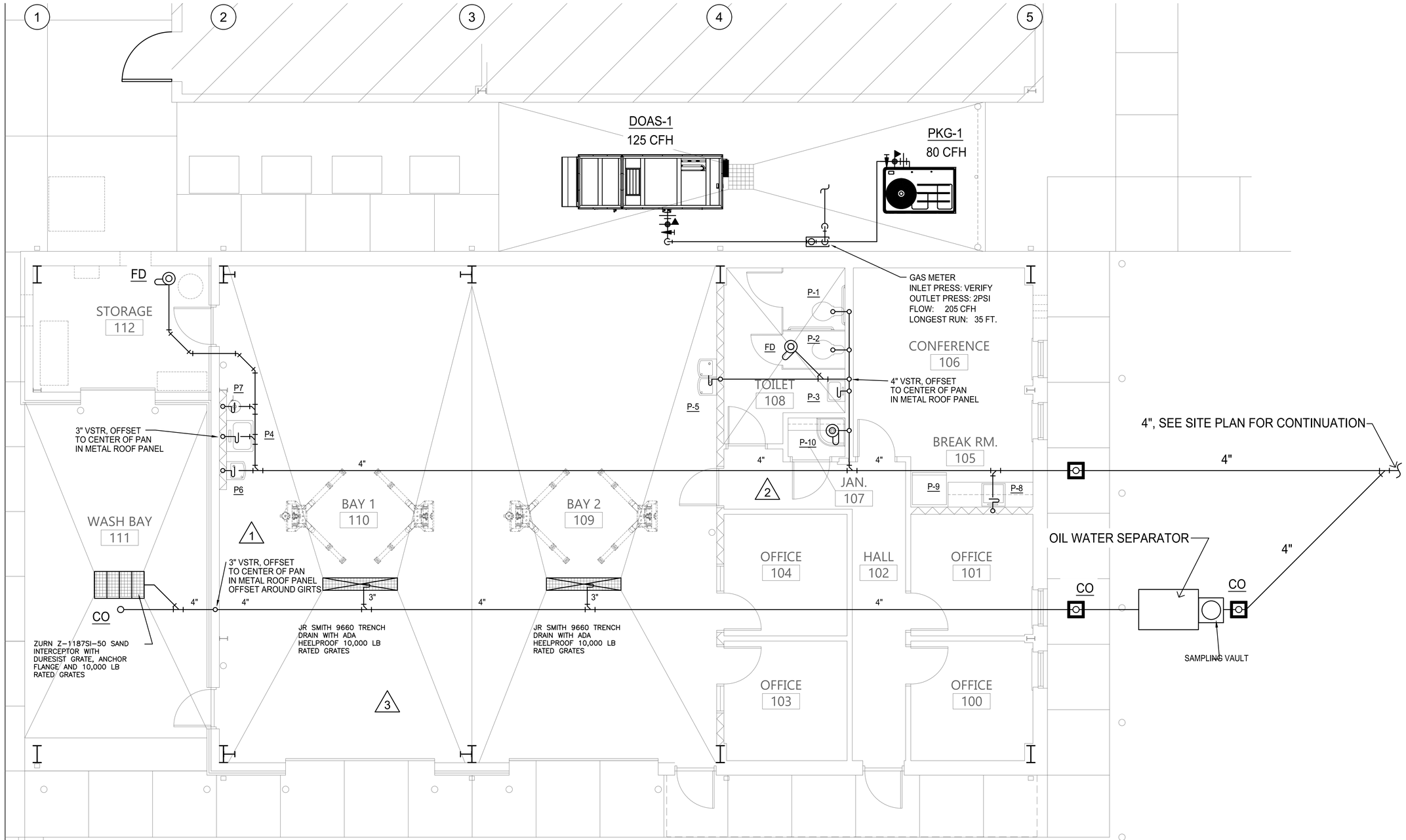
SHEET TITLE
Plumbing Schedules & Details

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 20 OF 35

P1.2

PROJECT NAME AND JOB NUMBERS



N
W E
S

FLOOR PLAN - NON-PRESSURE PIPING

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

PH&J architects inc.
Montgomery, Alabama

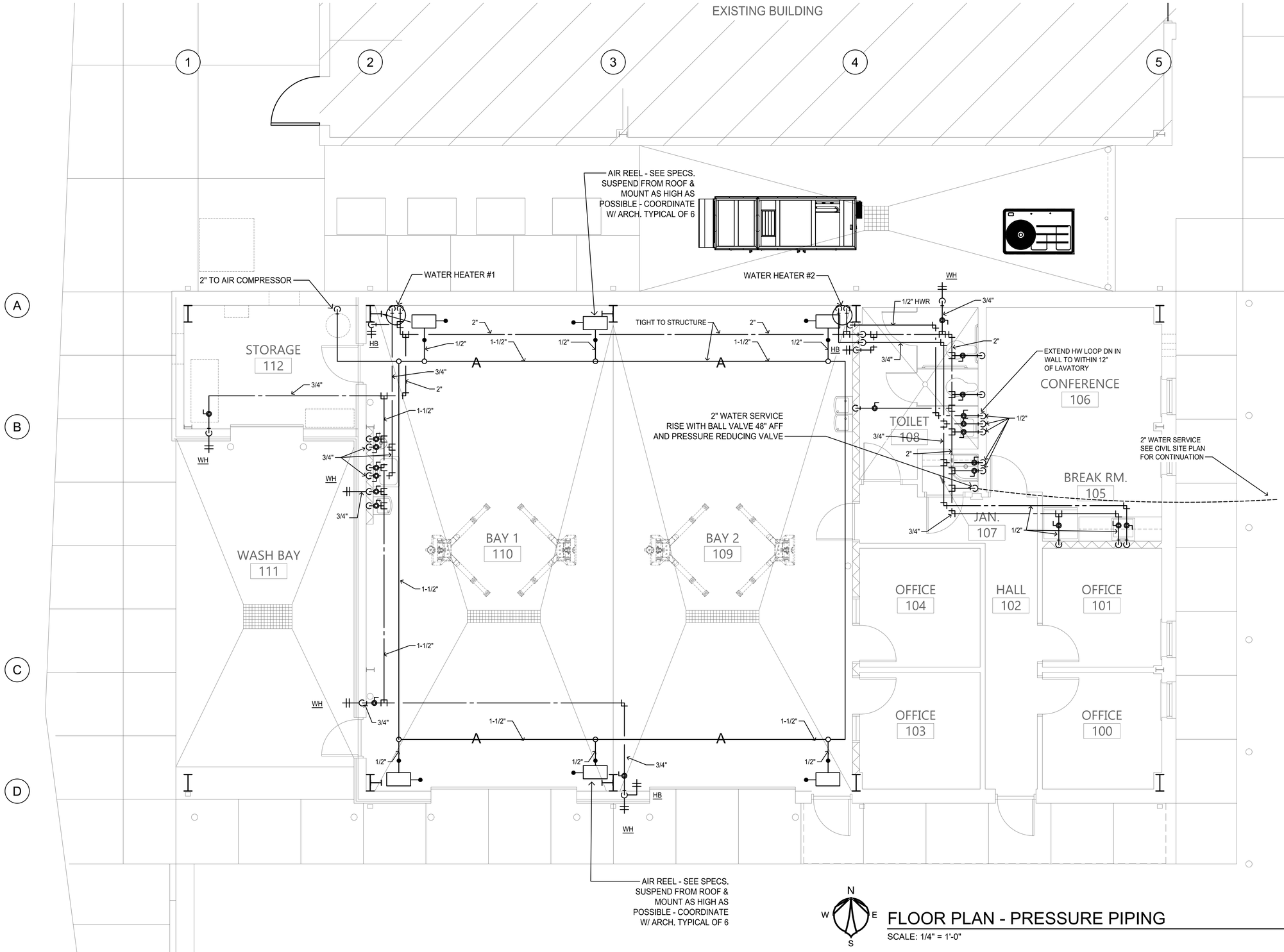
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA
JR EIRING
23369
PROFESSIONAL
ENGINEER
JR. EIRING
11-11-25

DRAWN JRE	CHECK JRE
DATE	OCTOBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	Floor Plan Non-Pressure Piping
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	21 OF 35

P2.1

PROJECT NAME AND JOB NUMBERS



FLOOR PLAN - PRESSURE PIPING

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

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA LICENSED PROFESSIONAL ENGINEER
LIC. NO. 23369
J.R. EIRING
11-11-25

DRAWN JRE	CHECK JRE
DATE	OCTOBER 20, 2025
REVISED	
REVISED	

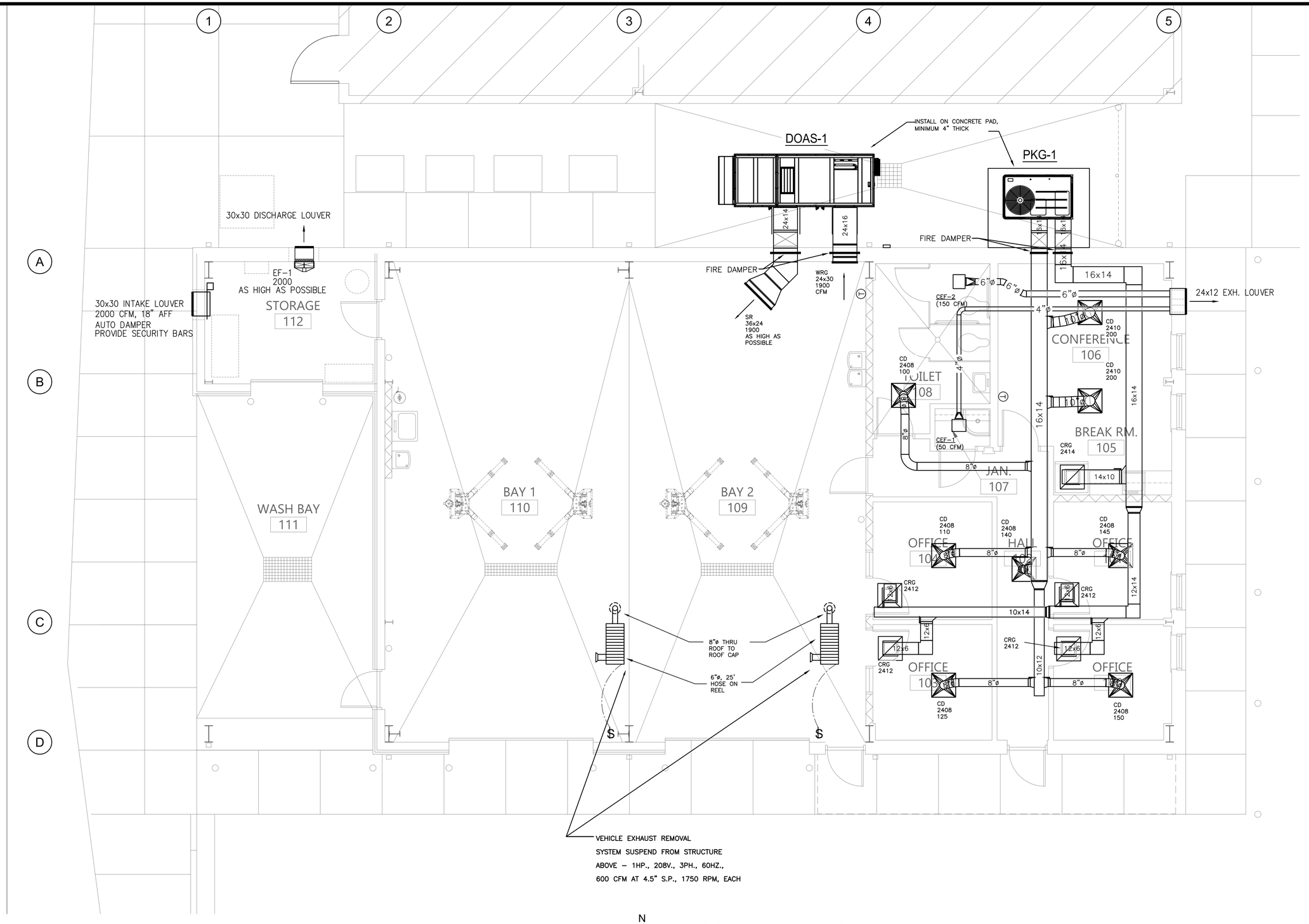
SHEET TITLE
Floor Plan
Pressure Piping

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 22 OF 35

P3.1

PROJECT NAME AND JOB NUMBERS



N
W
E
S

FLOOR PLAN - HVAC

SCALE: 1/4 = 1'-0"

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA
23369
PROFESSIONAL
ENGINEER
JR. EIRING
11-11-25

DRAWN JRE	CHECK JRE
DATE	OCTOBER 20, 2025
REVISED	
REVISED	

SHEET TITLE
Floor Plan - HVAC

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 23 OF 35

M1.1

PROJECT NAME AND JOB NUMBERS

TRANE ROOFTOP HEAT PUMP UNIT SCHEDULE

UNIT NO.	CFM	MIN. OSA	E.S.P. IN. W.G.	FAN TYPE	FAN H.P.	COOLING CAPACITY			AUX. ELECTRIC HEAT		ELECTRICAL												MIN COP (HSPF2)	WEIGHT	REFRIG. TYPE	REFRIG. CHARGE	EQUAL TO TRANE	REMARKS
												COMPRESSOR				CONDENSER FANS				MCA	MFS	MIN EER (SEER2)						
						NOM. TONS	ARI SEN.	ARI TOTAL	KW	# STEPS	VOLTAGE	NO.	HP. EA.	RLA EA.	LRA EA.	NO.	HP. EA.	RLA EA.	LRA EA.								
PKG-1 *	1170	200	0.625	FC	1.0	3	30 MBH	36.0 MBH	80	64	208/3/60	1	2.8	10.4	73	1	.25	1.1	3.6	20	30	(16.2)	(7.2)	1000#	R-454B	12.0	WHK036	

FAN SCHEDULE

FAN NO.	SERVES	TYPE	CFM	APPROX. S.P.	SELECTION CRITERIA	MOTOR		ACCESSORIES	CONTROL OR INTERLOCK WITH	REMARKS
						HP	VOLTAGE			
CEF-1	JAN. CLOSET	CEILING MTD. CENTRIFUGAL	50	0.325	1.0 SONES MAX. 1550 RPM MAX.	100W	120/1/60	1,3,4,5,6	LIGHTS	
CEF-2	TOILETS	CEILING MTD. CENTRIFUGAL	150	0.325	1.0 SONES MAX. 1550 RPM MAX.	100W	120/1/60	1,3,4,5,6	LIGHTS	
EF-1	EQUIPMENT ROOM	SIDEWALL PROPELLER	2000	0.35	13 SONES MAX 1750 RPM MAX	1/3	110/1/60	1,3,5,6,8	WALL SWITCH WALL LOUVER	

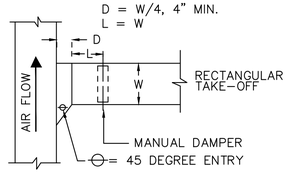
FAN ACCESSORIES AND NOTES:

1. DIRECT DRIVE WITH FAN MOUNTED SOLID STATE SPEED CONTROL
2. BELT DRIVE
3. DISCONNECT SWITCH
4. PREFABRICATED INSULATED ROOF CURB W/SOUND ATTENUATION
5. BACKDRAFT DAMPER
6. BIRDSCREEN
7. WALL HOUSING WITH WALL BDD AND WALL LOUVER
8. ECM MOTOR WITH WALL MOUNTED SPEED CONTROLLER
9. CURB ADAPTER

ELECTRIC HEATER SCHEDULE

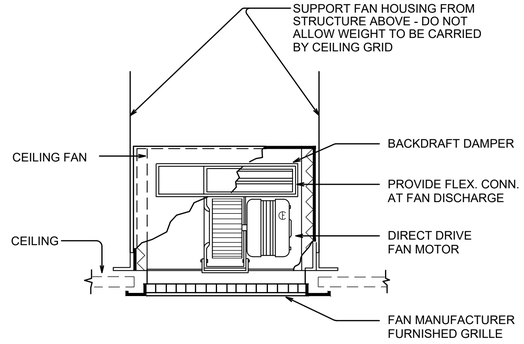
SYMBOL/ (LOCAL.)	TYPE	MOUNTING	HEATING CAP. (KW)	FAN DATA		ELECTRICAL VOLTS/PH./HZ.	EQUAL TO MARKEL
				CFM	H.P.		
EUH-1	UNIT HTR.	SUSPENDED	5.0	400	1/125	208/1/60	5100

PROVIDE FACTORY DISCONNECTS AND UNIT MTD. THERMOSTATS FOR EACH HEATER



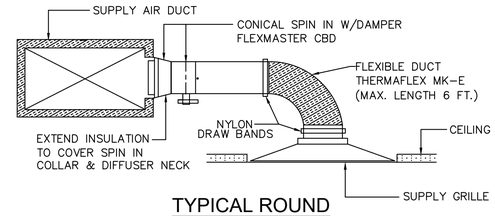
DUCT CONNECTION DETAIL

(SUPPLY, RETURN, EXHAUST, OR OSA)
NO SCALE



CEILING MOUNTED EXHAUST FAN CONN. DETAIL

NO SCALE



TYPICAL ROUND RUNOUT DETAIL

NO SCALE

AIR DEVICES

- STRAIGHT SPIN-IN WITH MANUAL DAMPER
- MANUAL DAMPER
- F.D. FIRE DAMPER
- A.D. AUTO. DAMPER
- FLEXIBLE CONNECTION
- Ø ROUND DUCT SYMBOL
- W X H RECTANGULAR DUCT
- RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
- RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
- ROUND DUCT TURNING DOWN
- MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS
- ELBOW WITH TURNING VANES FOR SUPPLY.
- ROUND ELBOWS. DIE CAST THROUGH 5" ROUND, 5 PIECE 6" ROUND AND ABOVE
- (T) THERMOSTAT
- (S) RETURN AIR SENSOR WITH REMOTE THERMOSTAT
- OA OUTSIDE AIR
- TA TRANSFER AIR
- S SUPPLY AIR
- E EXHAUST AIR
- R RETURN AIR
- (X) DENOTES EXISTING DUCT OR EQUIPMENT

D - GRILLE TYPE - SEE SLEGEND
CRG - CEILING RETURN GRILLE
2416- 24x24 LAY-IN, 16" SQ. NECK
117 - 117 CFM

A - GRILLE TYPE - SEE SLEGEND
CD - CEILING DIFFUSER
2408 - 24x24, 8"Ø NECK(RUNOUT=NECK SIZE)
117 - 117 CFM

PKG-1 OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Clg Ht	Volume	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5	Refrig	Lbs Refeig	Allowable #/1000 cu ft	Actual #/1000 cu ft	Max Allowed in space
CONFERENCE 106	259	9	2331	50	13	0.06	16	5	65	81	0.8					400	0.2025					
HALL 102	148	9	1332			0.06	9	5	0	9	0.8					140	0.064286					
TOILET 108	125	9	1125									2	70		140	100	0					
OFFICE 104	96	9	864	5	1	0.12	12	10	10	22	0.8					110	0.2					
OFFICE 100	96	9	864	5	1	0.12	12	10	10	22	0.8					150	0.146667					
OFFICE 101	96	9	864	5	1	0.12	12	10	10	22	0.8					145	0.151724					
OFFICE 103	96	9	864	5	1	0.12	12	10	10	22	0.8					125	0.176					
JANITOR 107	15	9	135									2	70		140							
Total			8379		17		73		105						280	1170		454B	12	3.1	1.432152	25.9749
									Cumulative CFM	178												
Max "Zp"	0.2025																					
"Ev"	0.9																					
"Vou" Total OSA EQ 4-6	165.6471																					
Total Building Occupancy	15																					
Zone Occupancy	17																					
"D" from EQ 4-7	0.882353																					
"Vot" Equation 4-8	184.0523																					
TOTAL OSA	184.0523																					

DOAS-1 REFRIGERANT, OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Clg Ht	Volume	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ 4-5	Refrig	Lbs Refeig	Allowable #/1000 cu ft	Actual #/1000 cu ft	Max Allowed in space
SHOP AREA	1597	16	25552	20	32	0.18	288	10						0.75	1198	1900	0					
Total			25552		32		288		0						1198	1900		454B	16.6	3.1	0.649656	79.2112

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

PH&J architects inc.
Montgomery, Alabama

ALABAMA
JAY R. ENIS
23369
PROFESSIONAL
ENGINEER
11-11-25

DRAWN	JRE
CHECK	JRE
DATE	OCTOBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	Schedules & Details - HVAC
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	24 OF 35

M2.1

PROJECT NAME AND JOB NUMBERS

DOAS-1

Project X September 11, 2025

Product Data - Horizon™ - Outdoor Air Unit (OAB)

Size	Qty	Description	Model Number
B096	1	Horizon™ - Outdoor Air Unit (OAB)	OABD096D3-D1B4G1KG-A1D00AG1KG5A22B0A4A0

Tag(s): DOAS-1

Unit Voltage: 208-3-60
Airflow Configuration: Horizontal Discharge/Horizontal Return
Installation: Outdoor
Evaporator Coil: DX 6 Row Interlaced
Hot Gas Reheat: Modulating
Compressor: Digital Scroll Primary Circuit
Condenser: Air Cooled Variable Speed Head Pressure Low Ambient Control
Capacity Control: R-454B - Low GWP Refrigerant & No RCC Valve
Indoor Blower Motor: Direct Drive w/VFD
Heat Type: Indirect Fired (IF)
Fuel Type: Natural Gas - 80% Eff.
439 Stainless Steel Furnace: 125 Mbtu/h, (5:1 Turndown)
Unit Controls: Trane UC600 - Space Control w/BACNET w/Display
Powered Exhaust: Direct Drive w/VFD & Gravity Damper
ERV/HRV: ERV - Polymer Construction w/ Bypass Dampers
Energy Recovery & Conservation: ERC-3622C
Damper Options: Modulating OA/RA Damper for Economizer Control
Filters: MERV-8
Electrical Options: Non-Fused Disconnect Switch "Circuit Breaker" (OAB)
Air Flow Monitoring: IFM Piezo Ring and PE Piezo Ring/Tap
Accessories: Condenser Hailguard
Curb Selection: Aux Mod Knockdown Curb
Warranty: 1-Year Parts Only (manufacturer warranty)
Warranty: 5-Year Digital/Variable Speed Scroll Compressor
Supply Discharge Air Sensor (FLD)
2 inch Double Wall Construction
Stainless Steel Drip Pan
Blower HP - 1.5
Blower RPM - 2302
Supply Fan - CF140.6
Exhaust RPM - 2369
Exhaust HP - 1.5
Exhaust Fan - CF140.6
Unit Amps - FLA: 42.9 Amps
Min Circuit Ampacity - MCA: 49.3 Amps
Maximum Overcurrent Protection - MOCP: 70 Amps

DOAS-1

Project X September 11, 2025

TRANE

Project Name: **Project X** Tag: **DOAS-1**

Comments:

Unit Information

Model:	Horizon™ (OAB Rev5)	Unit Length:	161 in	Weight Operating:	2091 lb*
Size:	B096	Unit Width:	52 in	*Note: Weight does not include CURB weight. See CURB submittal for actual*	
Quantity:	1	Unit Height:	55 in		
Supply Airflow:	1,900 CFM	Elevation:	0 ft	**Refrigerant Charge - R-454B**	
Outside Airflow:	1,900 CFM	Ambient Air DB:	95 F	Circuit 1:	16.6 lbs
Minimum Airflow:	922 CFM				

Cooling Performance

Gross Total Capacity:	89.1 MBh	Evaporator Face Area:	6.79 sq ft
Gross Sensible Capacity:	57.4 MBh	Evaporator Rows / FPI:	6 / 12
Net Total Capacity:	86.2 MBh	Condenser Face Area:	12.96 sq ft
Net Sensible Capacity:	54.5 MBh	Condenser Rows / FPI :	5 / 12
Entering Air DB / WB (Coil):	79.2 / 67 F	Air Velocity:	279 fpm
Leaving Air DB / WB (Coil):	51.1 / 51.0 F	Coil Air PD:	0.20 in H2O
Leaving Air DB / WB (Reheat):	76 / 60.9 F	EER:	19
Leaving Air DB / WB (Unit):	77.7 / 61.5 F	Watts:	8821
Leaving DP:	50.7 F	MRE:	8.49 lb/kWh
MRC:	74.93 lb/h	IEER:	15.57

Heating Performance

Heat Type:	Gas Furnace	Entering Air DB:	62.2 F
Input Capacity	125 MBh	Leaving Air DB:	110.7 F
Output Capacity:	100 MBh	Coil Air PD:	0.18 in H2O

DOAS-1

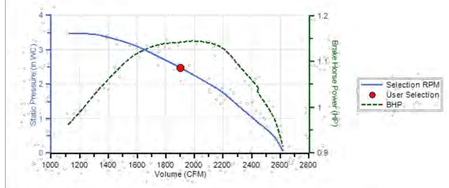
Project X September 11, 2025

Energy Recovery Wheel **ERC-3622C**

*** TAB Outside airflow through OA intake to this value*

Summer Conditions				Winter Conditions			
Ventilation Supply		**Outside**		**Ventilation Supply**		**Outside**	
Airflow:	1,900 CFM	Airflow:	2,077 CFM**	Airflow:	1,900 CFM	Airflow:	2,077 CFM**
DB:	79.2 F	DB:	95.0 F	DB:	62.2 F	DB:	35.0 F
WB:	67.0 F	WB:	78.0 F	WB:	52.4 F	WB:	30.0 F
PD:	0.83 in H20			PD:	0.83 in H20		
Return		**Exhaust**		**Return**		**Exhaust**	
Airflow:	2,000 CFM	Airflow:	2,177 CFM	Airflow:	2,000 CFM	Airflow:	2,177 CFM
DB:	75.0 F	DB:	89.8 F	DB:	70.0 F	DB:	43.9 F
WB:	63.0 F	WB:	74.3 F	WB:	58.0 F	WB:	38.9 F
ESP:	1.00 in H20	ERV PD:	0.88 in H20	ESP:	1.00 in H20	ERV PD:	0.88 in H20
Total Capacity:	81.18 MBH	Eff:	76.0%	Total Capacity:	91.85 MBH	Eff:	75.0%
Sensible Capacity:	31.39 MBH	Eff:	78.0%	Sensible Capacity:	56.05 MBH	Eff:	77.0%
Latent Capacity:	49.79 MBH	Eff:	74.0%	Latent Capacity:	35.80 MBH	Eff:	73.0%
Enthalpy Recovery Ratio:	76.0%			Enthalpy Recovery Ratio:	75.0%		
Sensible Recovery Ratio:	78.0%			Sensible Recovery Ratio:	77.0%		

Supply Fan **CF140.6**



Supply Pressure Drop Summary

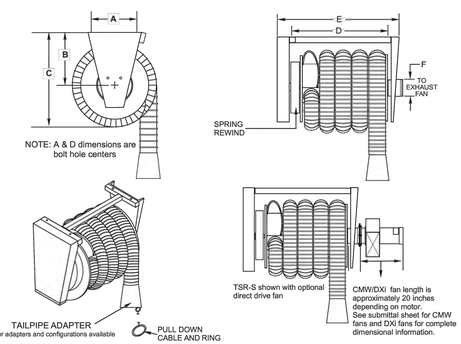
External Static Pressure:	1.00 in H2O
Cabinet:	0.01 in H2O
Cooling Coil:	0.2 in H2O
Base Filter:	0.01 in H2O
Filter:	0.2 in H2O
Primary Heat:	0.18 in H2O
HGRH:	0.05 in H2O
ERV OA:	0.83 in H2O
Total Static Pressure:	2.48 in H2O

Supply Fan Conditions

Fan Motor BHP:	1.14 BHP
Operating RPM:	2302 RPM
Minimum RPM:	905 RPM

CAR-MON **SERIES TSR-S** TUBING STORAGE REEL

With Spring Operator



QTY.	MODEL	HOSE DIA.	HOSE TYPE	HOSE LENGTH	ADAPTER	CMW/DXI FAN	A	B	C	D	E	F	WT.
	TSR-S24	3"					9 ¾	18 7/8	31	26 ¾	37 ¾		150
	TSR-S24	4"					9 ¾	18 7/8	32	26 ¾	37 ¾		150
	TSR-S32	5"					9 ¾	18 7/8	33	34 ¾	45 ¾		185
2	TSR-S32	6"	NTC	25'	RCT	CMW-11	9 ¾	18 7/8	34	34 ¾	45 ¾		185
	TSR-S36	7"					9 ¾	19 7/8	35	38 ¾	49 ¾		210
	TSR-S36	8"					9 ¾	19 7/8	36	38 ¾	49 ¾		210

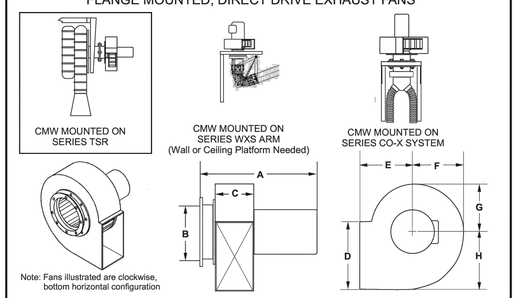
CAR-MON **Series TSR-S** is a tubing storage reel designed for use with Car-Mon Hose. Its frame is of welded construction using 2x2x1/8 square tubular steel with 12 gauge end plates, and an airtight rotating cylinder with a recessed inlet fitting to which the flange mounted flexible hose will be bolted. The assembly is spring actuated with a ratchet locking device and integral stop. The standard TSR-S will accommodate up to 25' of tubing. Other lengths and diameters are available, consult factory for details. Series CMW or DXI flange mounted direct drive fans are available as an option.

Note: Factory reserves the right to change dimensional data without notice.

CAR-MON **PRODUCTS, INC.** 1225 Davis Road, Elgin, IL 60123 847/695-9000 www.car-mon.com e-mail: info@car-mon.com **08-R3**

1009

CAR-MON **SERIES CMW**
FLANGE MOUNTED, DIRECT DRIVE EXHAUST FANS



MODEL	A	B	C	D	E	F	G	H	WEIGHT
CMW-7, 9	20"	8"	6½"	10"	7"	8"	7¼"	9"	58
CMW-11	22"	8"	8"	11½ "	8"	9"	7⅞"	10⅜"	64
CMW-13	22"	8"	7½ "	12"	8¼"	9¾"	8"	10¾"	66

CHECK OPTIONAL EQUIPMENT REQUIRED

☐ Wall Platform ☐ Ceiling Platform ☐ Back Draft Damper ☐ Other _____

Fan to be attached to ☒ Hose Reel ☐ Exhaust Arm ☐ Wall or Ceiling Platform

Customer PALMER & LAWRENCE, INC. Job Name _____

QTY.	MODEL	HP	WHEEL DIA.	ROTATION CW	ROTATION CCW	DISCH.	CFM 1¼" SP	CFM 2½" SP	CFM 3" SP	CFM 4" SP	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL HZ
	CMW-7	½	9¾				680	570	490				
	CMW-9	¾	9¾				850	720	600				
2	CMW-11	1	10	CONFIRM			1300	1180	1100	900	230/460	3	60
	CMW-13	1½	10⅛				1590	1520	1420	1250			

The **Series CMW** fans provide a convenient and efficient method of mounting exhaust fans on Car-Mon reels, welding exhaust arms, and tubing drops. It is available in four configurations to provide a wide variety of air volume needs. For dimensions and specifications of arms, reels, and **CO-X** systems, please refer to the individual product submittal sheets.

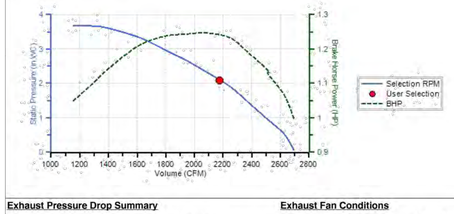
SPECIFICATION The fan shall be the standard product of a United States exhaust system manufacturer. Fan wheel shall be backward inclined, non-overloading type with single thickness blades and be statically and dynamically balanced. The fan housing shall be fabricated of 12 gauge steel and be of all welded construction. The mating surfaces of the inlet cone and fan housing shall be caulked prior to assembly. The inlet cone shall be assembled to the fan housing using hex head cap screws bolted to threaded inserts welded to the interior of the housing, self tapping screws are not acceptable. A rolled angle mounting flange shall be welded to the inlet ring. All surfaces of the fan shall be painted with a polyester powder coating. The fan motor shall be an industrial grade C-face type, bolted directly to the housing, with horsepower and electrical characteristics as specified. The fan shall be **Series CMW** as manufactured by Car-Mon Products, Elgin, IL 60123

CAR-MON **PRODUCTS, INC.** 1225 Davis Road, Elgin, IL 60123 847/695-9000 www.car-mon.com e-mail: info@car-mon.com **13-F4**

0413

Project X September 11, 2025

Exhaust Fan **CF140.6**



Exhaust Pressure Drop Summary

Return External Static Pressure:	1 in H2O
ERV Return Filter PD:	0.2 in H2O
ERV Wheel PD:	0.88 in H2O
Total Exhaust Static Pressure	2.08 in H2O

Exhaust Fan Conditions

Fan Motor BHP:	1.24 BHP
Operating RPM:	2369 RPM

Standard Radiated Sound Power Level (dBA)

63	125	250	500	1000	2000	4000	8000	Total dBA
46.7	57	64.7	69.8	70.2	69.7	71	66.2	77

Sound power levels are listed for informational purposes only and are not guaranteed.

Unit Electrical Data

Unit Voltage-Ph-Hz:	208-3-60	Min Circuit Ampacity - MCA:	49.3 Amps
Unit Amps - FLA:	42.9 Amps	Maximum Overcurrent Protection - MOCP:	70.0 Amps

Electrical Summary

Component	Fan Service	Qty	HP (ea.)	FLA (ea.)	RLA (ea.)	LRA (ea.)
ERV/HRV		1	0.17	0.7		
	Exhaust	1	1.5	4.64		
Digital Scroll		1			25.6	186.6
	Supply	1	1.5	4.64		
	Condenser	1	1	4.2		
Controls		1		3.15		
Gas Heater		1		6.25		

Notes

- Unit Electrical amps include the greater of compressor or electrical heat amps.
- Unit's electrical as shown above are for single point power.

PH&J architects inc. Alabama Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA 23369 PROFESSIONAL ENGINEER J. R. EIRING

11-11-25

DRAWN JRE	CHECK JRE
DATE	OCTOBER 20, 2025
REVISED	
REVISED	

SHEET TITLE
Schedules & Details - HVAC

JOB NO. PH&J #2502-CUA DCM #2025417

SEQUENCE NO. 25 OF 35

M2.2

PROJECT NAME AND JOB NUMBERS

ELECTRICAL LEGEND

CEILING OUTLETS

- A (2) — RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A (2) — RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A (2) — RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A (2) — RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- FS 2 — SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS 2 — SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- J — JUNCTION BOX
- EXIT LIGHT
- EF — EXHAUST FAN
- CEILING MOUNTED OUTLET. NEMA 5-20R IN SINGLE GANG BOX SUSPENDED FROM CEILING USING TYPE "SO" CORD (2#10 WITH GROUND) AND KELLEMS GRIP AT BOTH ENDS. SUSPEND FROM STRUCTURE SUCH THAT RECEPTACLE IS 6 FEET FROM FINISHED FLOOR.

WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE PER THE NATIONAL ELECTRIC CODE.

- WALL MOUNTED COMBO EXIT LIGHT/EMERGENCY
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY WALL PACK
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- G — DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- W — DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE; OUTLET BOX HOODS SHALL BE IDENTIFIED AS "EXTRA-DUTY"
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G — DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G — QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
- J — JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- P — PHOTOCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- LA-1 — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND – 3/4" C; 3 #12, 1 #12 GROUND – 3/4" C; 4 #12, 1 #12 GROUND – 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 10, LA-1 — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND – 3/4" C; 3 #10, 1 #10 GROUND – 3/4" C; 4 #10, 1 #10 GROUND – 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 8, LA-1 — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND – 1" C; 3 #8, 1 #10 GROUND – 3/4" C; 4 #8, 1 #10 GROUND – 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 6 — WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN. THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 – NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250-95 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

TELEPHONE & TELEVISION SYSTEMS

- WALL COMMUNICATIONS OUTLET – SEE DETAILS ON SHEET E6.1
- WIRELESS ACCESS POINT – SEE DETAILS ON SHEET E6.1
- CCTV — SECURITY CAMERA – SEE DETAILS ON SHEET E6.1
- COMMUNICATIONS FLOOR RACK SEE DETAIL E4.1

MISCELLANEOUS EQUIPMENT

- C — CONTACTOR
- EXTERIOR POLE LIGHT
- WH — WATER HEATER
- MON — SCREEN MONITOR

LIGHTING CONTROLS

- OS — CEILING MOUNTED OCCUPANCY SENSOR
- PP — POWER PACK FOR OCCUPANCY SENSOR
- L1 — ROOM CONTROLLER – 1 ZONE DIMMING
- L2 — ROOM CONTROLLER – 2 ZONE DIMMING
- LE — ROOM CONTROLLER – EMERGENCY LIGHTING UL924 DEVICE
- RC — ROOM CONTROLLER – ON/OFF NO DIMMING
- D1 — WALL DIMMER – ON/OFF & 0-10V 1-ZONE DIMMING
- D2 — WALL DIMMER – ON/OFF & 0-10V 2-ZONE DIMMING
- S_L — LOW VOLTAGE SWITCH, 2-BUTTON
- S_{LX} — LOW VOLTAGE SWITCH CONNECTED TO LIGHITNG CONTROL PANEL, 2-BUTTON
- S_{O1} — OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S — A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S_3 — A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- S_M — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- 30/1 S_M — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- S_T — PRESET INTERVAL TIMER SWITCH, HUBBELL TD-300 SERIES OR EQUALS
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED
KENNETH RAY GUNN JR.
NO. 26988
PROFESSIONAL ENGINEER
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	
SHEET TITLE: ELECTRICAL LEGEND & NOTES	
JOB NO. PH&J #2502-CUA DCM #2025417	
SEQUENCE NO. 26 OF 41	

E0.1

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PROJECT NAME AND JOB NUMBERS

MISCELLANEOUS

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CL	CENTER LINE
CWP	COLD WATER PIPE
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID METAL CONDUIT
GRD	GROUND
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MT	MOUNT
N	NEUTRAL
NIC	NOT IN CONTRACT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
P	POLE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	PVC (POLYVINYL CHLORIDE) CONDUIT
SLD	SINGLE LINE DIAGRAM
TBB	TELEPHONE BACKBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSORS
UL	UNDERWRITER'S LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WIRE
WP	WEATHERPROOF
#	NUMBER
3R	NEMA 3R WEATHERPROOF ENCLOSURE
4X	NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY IS 120/208 VOLT, 3 PHASE, 4 WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPLASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC, WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT
Project Type: New Construction

Construction Site:

Owner/Agent:
PH&J ARCHITECTS

Designer/Contractor:
JASON TILLERY
GUNN & ASSOCIATES
MILLBROOK, AL

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-OFFICE (Common Space Types:Office - Enclosed)	3036	1.11	3370
		Total Allowed Watts =	3370

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-OFFICE (Common Space Types:Office - Enclosed)				
LG48: Other:	1	4	38	152
LG60: Other:	1	5	45	225
LG72: Other:	1	4	76	304
LG2: Other:	1	2	28	56
LS96: Other:	1	12	133	1596
LV96: Other:	1	5	62	310
		Total Proposed Watts =		2643

Interior Lighting PASSES: Design 22% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JASON TILLERY (ELECTRICAL DESIGNER) Jason Tillery 11-04-2025
Name - Title Signature Date

Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT Report date: 11/04/25
Data filename: \\a4\Drive-N\2025\25-195 AIDT (HARRY WILLIAMS)\Correspondence\A.I.D.T. ENERGY STUDY.cck Page 1 of 6

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT
Project Type: New Construction
Exterior Lighting Zone: 1 (Developed rural area (LZ1))

Construction Site:

Owner/Agent:
PH&J ARCHITECTS

Designer/Contractor:
JASON TILLERY
GUNN & ASSOCIATES
MILLBROOK, AL

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Walkway < 10 feet wide	600 ft of	0.7	Yes	420
			Total Tradable Watts (a) =	420
			Total Allowed Watts =	420
			Total Allowed Supplemental Watts (b) =	500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Walkway < 10 feet wide (600 ft of walkway length): Tradable Wattage				
LED 2: Other:	1	6	45	270
		Total Tradable Proposed Watts =		270

Exterior Lighting PASSES: Design 71% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JASON TILLERY (ELECTRICAL DESIGNER) Jason Tillery 11-04-2025
Name - Title Signature Date

Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT Report date: 11/04/25
Data filename: \\a4\Drive-N\2025\25-195 AIDT (HARRY WILLIAMS)\Correspondence\A.I.D.T. ENERGY STUDY.cck Page 2 of 6

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED NO. 26998 PROFESSIONAL ENGINEER KENNETH RAY GUNN, JR.
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
ELECTRICAL LEGEND & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 27 OF 41

E0.2

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PROJECT NAME AND JOB NUMBERS

GENERAL NOTES:

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
4. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS HAND HOLES AND BACKBOARDS.
6. SEE SHEET E1.2 FOR TYPICAL TRENCH/DUCT DETAILS FOR ALL SURFACES. WORK SHALL COMPLY WITH DETAILS.
7. SEE SHEET COMMUNCIATIONS RISER DIAGRAMS ON SHEET E6.2 FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES:

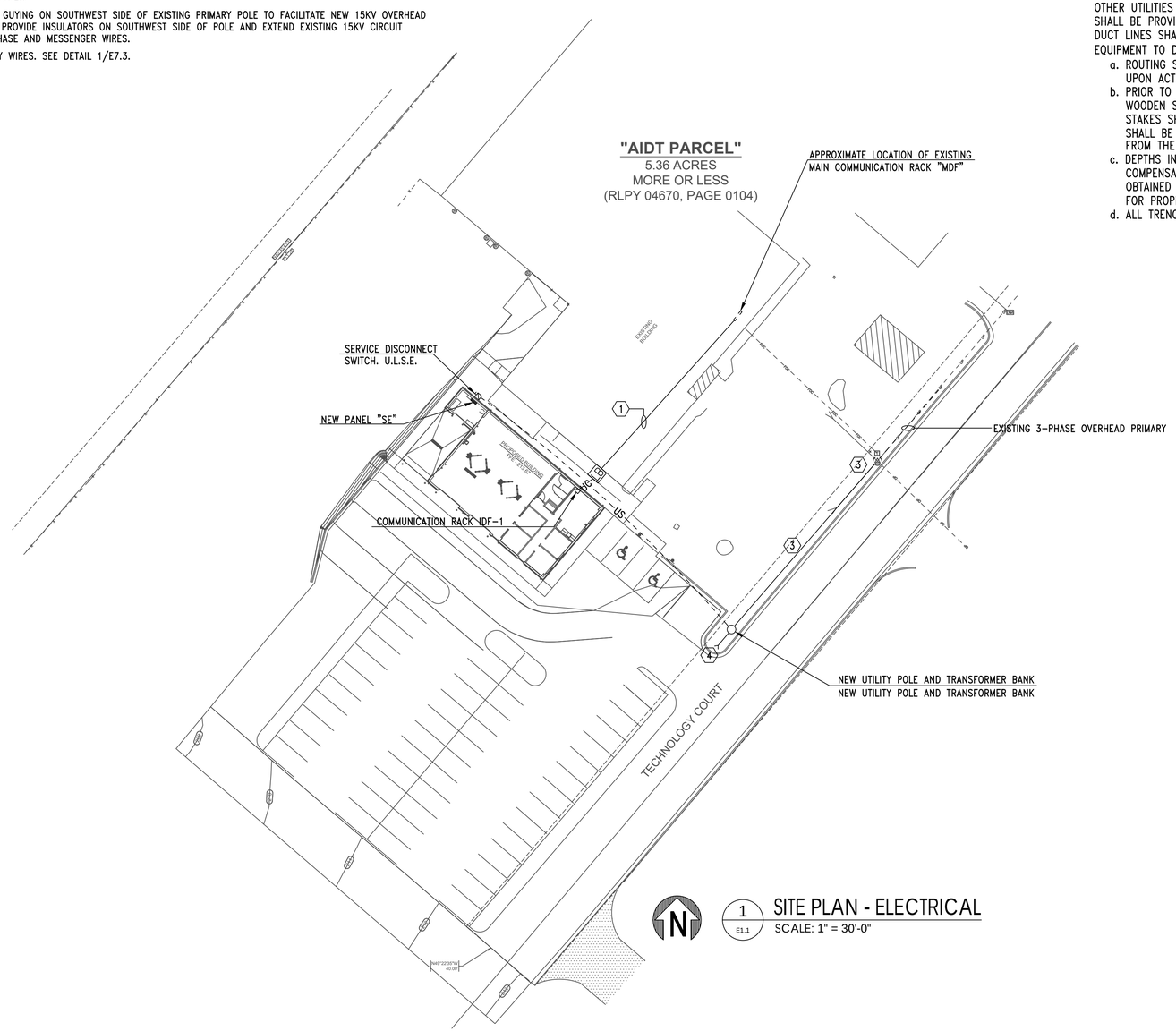
1. CONTRACTOR SHALL PROVIDE ONE 2" CONDUIT FROM NEW RACK TO EXISTING BUILDING AND THEN LB INTO EXISTING BUILDING AND EXTEND CONDUIT TO EXISTING "MDF" COMMUNICATION'S RACK.
2. CONTRACTOR SHALL REMOVE EXISTING EXTERIOR LIGHTING POLE AND LIGHT. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT TO EXISTING FIXTURES TO REMAIN. CONTRACTOR SHALL TURN OVER EXISTING POLE AND LIGHTS TO OWNER.
3. REMOVE EXISTING GUYING ON SOUTHWEST SIDE OF EXISTING PRIMARY POLE TO FACILITATE NEW 15KV OVERHEAD SPAN AND POLE. PROVIDE INSULATORS ON SOUTHWEST SIDE OF POLE AND EXTEND EXISTING 15KV CIRCUIT USING #2ACSR PHASE AND MESSENGER WIRES.
4. PROVIDE NEW GUY WIRES. SEE DETAIL 1/E7.3.

SITE LEGEND

- - -UP- - - UNDERGROUND PRIMARY
- - -US- - - UNDERGROUND SECONDARY
- - -UC- - - UNDERGROUND COMMUNICATIONS

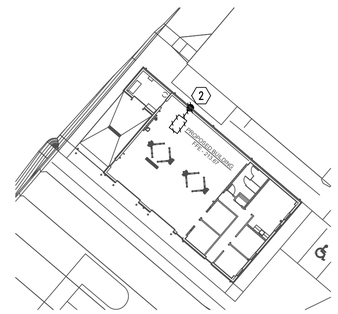
UNDERGROUND UTILITY NOTES:

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
   a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
   b. DUCTBANK INSTALLATIONS
   c. LOW VOLTAGE CONDUCTOR INSTALLATION
   d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NESC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
   a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
   b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
   c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
   d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.



N

1 E1.1 SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"



N

2 E1.1 PARTIAL SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

SCALE: 1" = 30'-0"

30' 15' 0 30 60FT

GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED
KENNETH RAY GUNN JR.
NO. 26985
PROFESSIONAL ENGINEER
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
SITE PLAN - ELECTRICAL

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. OF 41

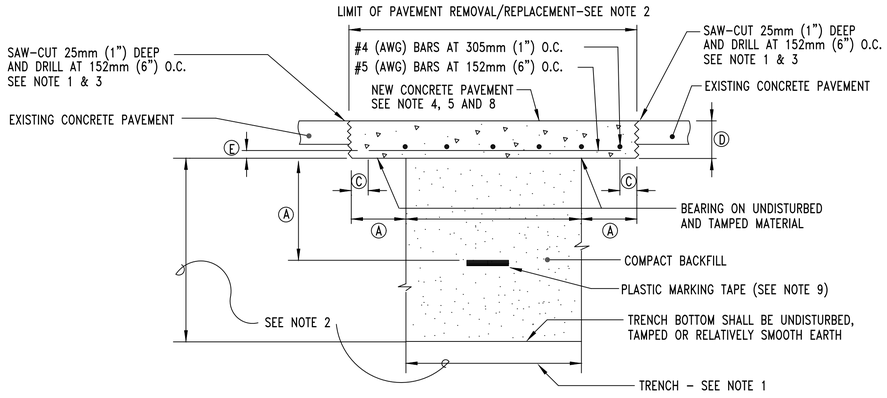
E1.1

PROJECT NAME AND JOB NUMBERS

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
4. CONCRETE SHALL BE CLASS A.
5. MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT 8" (20.32cm) MIN.
6. LEAVE DRILLED FACE OF EXISTING PAVEMENT IRREGULAR TO INSURE KEY TO NEW CONCRETE PAVEMENT.
7. ALL EXISTING JOINTS TO BE RE-ESTABLISHED.
8. REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE PAVEMENT.
9. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

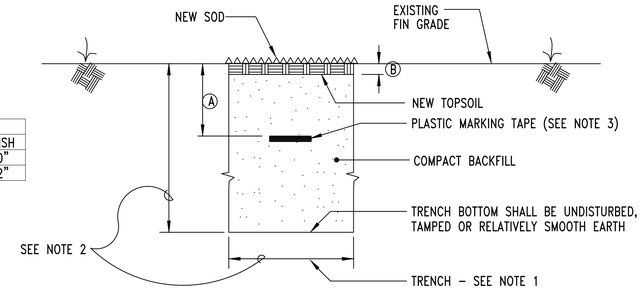


2 E1.2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR RIGID PAVEMENT
NO SCALE

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	51mm	0'-2"

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR AND INSTALL NEW SOD.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

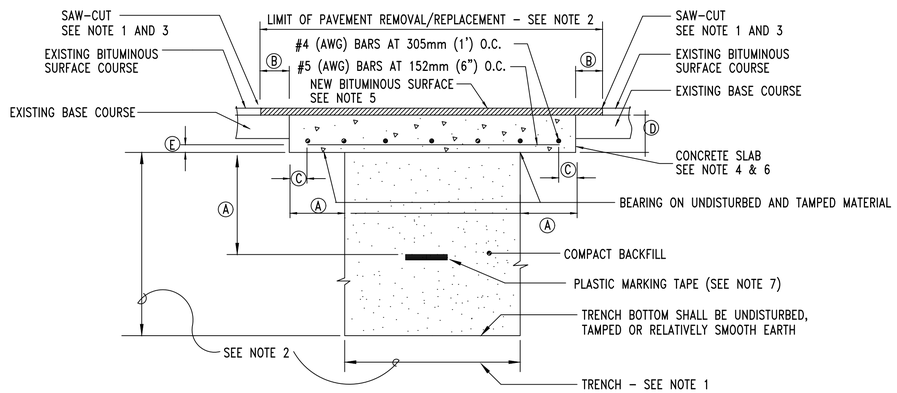


3 E1.2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR SODDED AREAS
NO SCALE

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
4. CONCRETE SHALL BE CLASS A.
5. MATCH THICKNESS OF EXISTING BITUMINOUS SURFACE, OR 38mm (1.5") MINIMUM, WHICHEVER IS GREATER.
6. REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE SLAB.
7. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.



1 E1.2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR FLEXIBLE PAVEMENT
NO SCALE

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

ALABAMA REGISTERED NO. 26988 PROFESSIONAL ENGINEER KENNETH RAY GUNN JR.
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
TRENCHING DETAILS & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 29 OF 41

E1.2

PROJECT NAME AND JOB NUMBERS

SHEET NOTES:

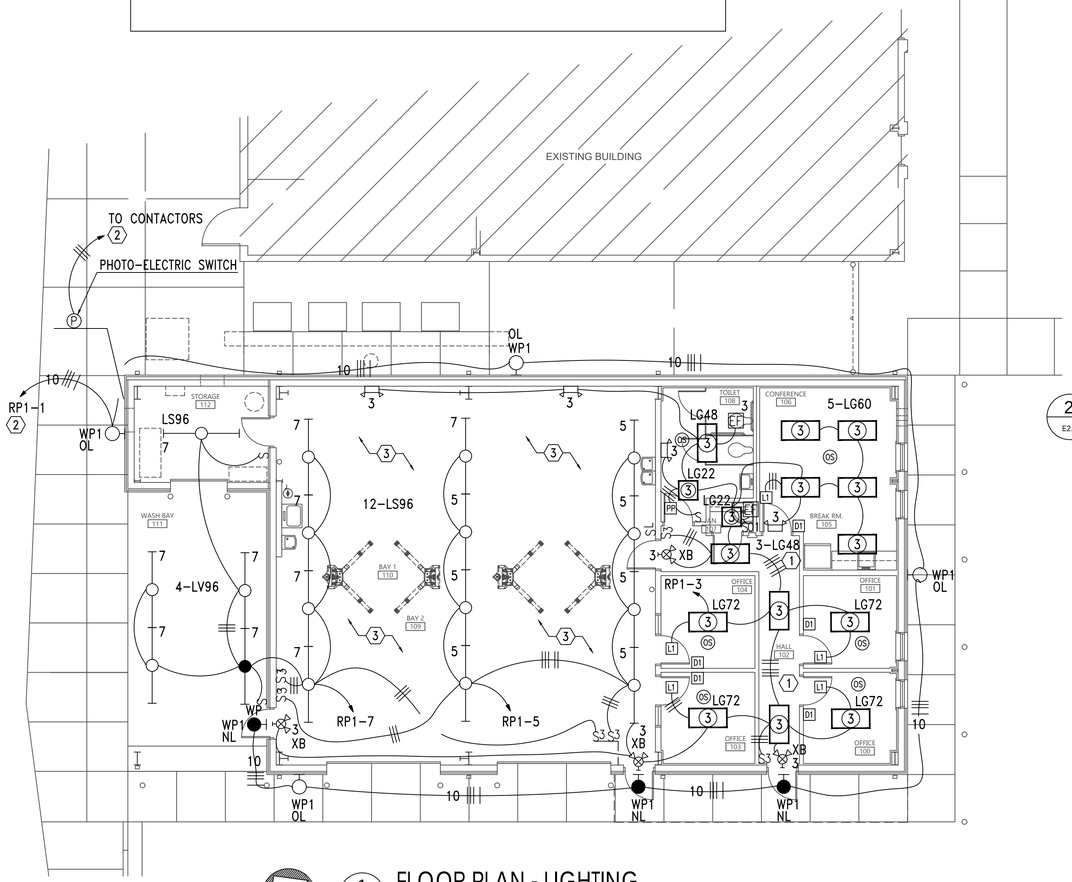
1. DUE TO SECURITY CONCERNS THE OWNER DOES NOT WANT CORRIDOR LIGHTS TO TURN OFF DURING CLASS BY OCCUPANCY SENSORS.
2. ROUTE EXTERIOR LIGHTING CIRCUITS THRU CONTACTORS AS SHOWN IN DETAIL 3. "NL' DESIGNATES LIGHTS ARE PHOTOCELL ON/PHOTOCELL OFF. "OL" DESIGNATES PHOTOCELL ON/TIMECLOCK OFF.
3. DUE TO SECURITY CONCERNS THE OWNER DOES NOT WANT SHOP LIGHTS TO TURN OFF DURING USE BY OCCUPANCY SENSORS.

ROOM CONTROLLER NOTES:

1. 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 THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABLEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

PHOTOCONTROL OF LIGHTING:

1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

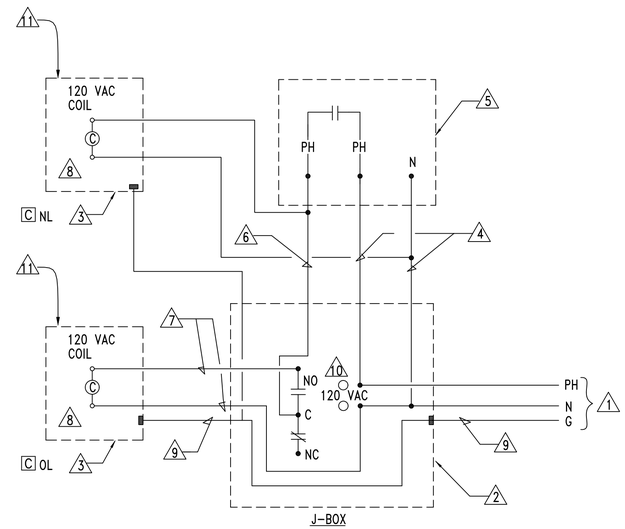


N

1 E2.1 FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"

KEYED NOTES

1. POWER SUPPLY – 120V, 1PH, 60HZ
2. TIME SWITCH ENCLOSURE – NEMA 1 UNLESS NOTED OTHERWISE
3. CONTACTOR ENCLOSURE – NEMA 1 UNLESS NOTED OTHERWISE
4. POWER TAP TO PHOTO-CELL IN GRC
5. TURN-LOCK PHOTO-CELL, SEE DETAIL
6. SWITCH LEG RETURN IN GRC
7. POWER TO CONTACTOR COIL
8. LIGHTING CONTACTOR C NL & C OL AS FOLLOWS:
   - -NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
   - -ELECTRICALLY OPERATED-ELECTRICALLY HELD
   - -RATING AND NUMBER OF POLES INDICATED
   - -CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
   - -FUSING FOR CONTROL CIRCUIT
9. GROUND CONDUCTOR – BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
10. DIGITAL TIME SWITCH AS FOLLOWS:
    - -ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
    - -INPUT: 120 VAC, 60HZ
    - -OUTPUT: DPST DRY CONTACTS (UNPOWERED)
    - -HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
    - -TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
    - -RELATIVE HUMIDITY: 0 TO 90% RH
    - -CLOCK ACCURACY: ±2 MINUTES PER YEAR
    - -LED INDICATION OF TIME AND LOAD STATUS
    - -FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
11. PROVIDE NUMBER OF POLES REQUIRED.



2 E2.1 DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR
NO SCALE

GENERAL NOTES:

1. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, 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 PACKS FOR OCCUPANCY SENSORS AND THE FOLLOWING:
   a. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
   b. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO A POWER PACK.
   c. IF MULTIPLE CIRCUITS OR DUAL SWITCHING ARE TO BE CONTROLLED BY OCCUPANCY SENSORS, PROVIDE ALL ADDITIONAL AUXILIARY RELAYS AND POWER PACKS AS NEEDED.
5. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
6. SEE POWER PLANS FOR PANEL LOCATIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. CONTRACTOR SHALL PROVIDE DEDICATED NEUTRALS FOR EACH DIMMING CIRCUIT.
9. COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS. SEE SHEETS E2.2 & E2.3 FOR ADDITIONAL REQUIREMENTS.

1/8" = 1'-0"
8' 0 8 16 FT
GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED NO. 26988 PROFESSIONAL ENGINEER KENNETH RAY GUNN JR. 11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE: FLOOR PLAN - LIGHTING

JOB NO. PH&J #2502-CUA
DCM #2025417

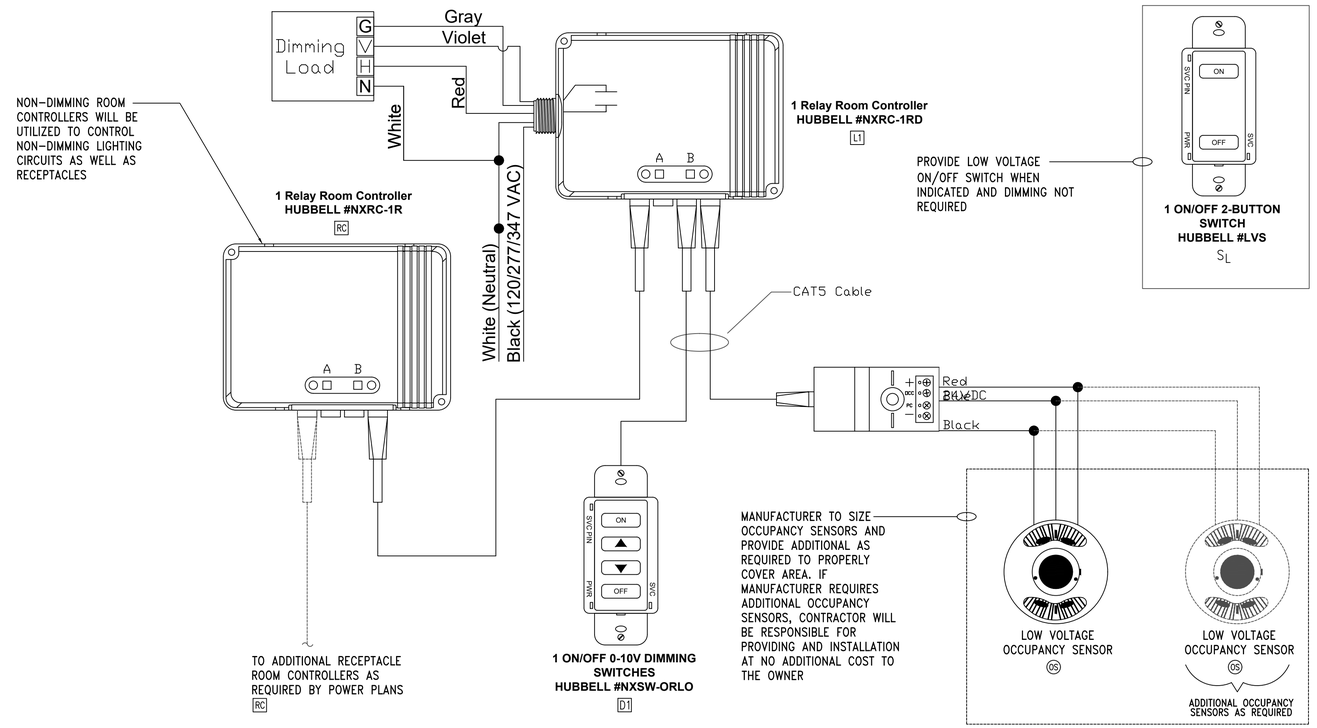
SEQUENCE NO. 30 OF 41

E2.1

PROJECT NAME AND JOB NUMBERS

OCCUPANCY SENSOR AND CONTROL NOTES:

1. OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
2. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
3. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
4. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
7. LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHITNG CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
8. WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
9. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.



1 / E2.2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL

NO SCALE

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

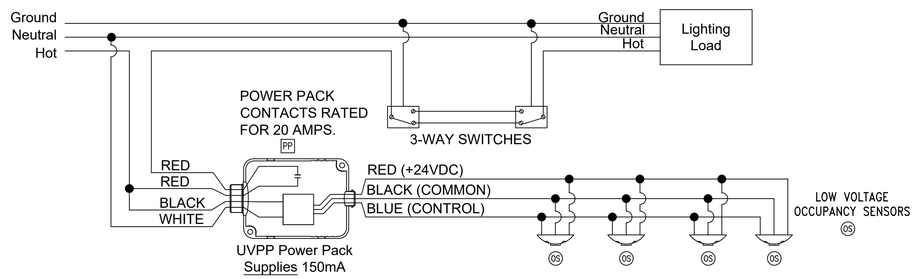
ALABAMA REGISTERED
Kenneth Ray Gunn
NO. 26988
PROFESSIONAL
11-20-2025
ENGINEER
KENNETH RAY GUNN JR.

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	
SHEET TITLE: LIGHTING CONTROL DETAILS	
JOB NO. PH&J #2502-CUA DCM #2025417	
SEQUENCE NO. 31 OF 41	

E2.2

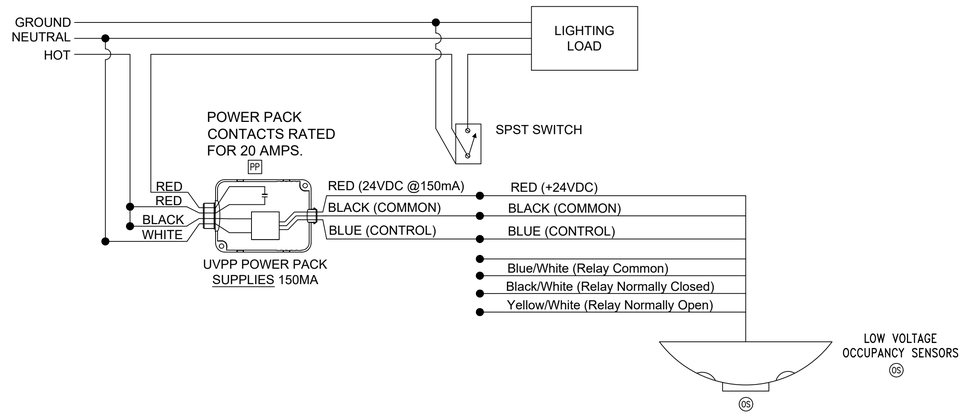
Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PROJECT NAME AND JOB NUMBERS



1 E2.3 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM

NO SCALE



2 E2.3 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM

NO SCALE

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED ENGINEER
NO. 26988
PROFESSIONAL
11-20-2025
KENNETH RAY GUNN JR.

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
LIGHTING CONTROL DETAILS

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 32 OF 41

E2.3

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PROJECT NAME AND JOB NUMBERS

GENERAL NOTES:

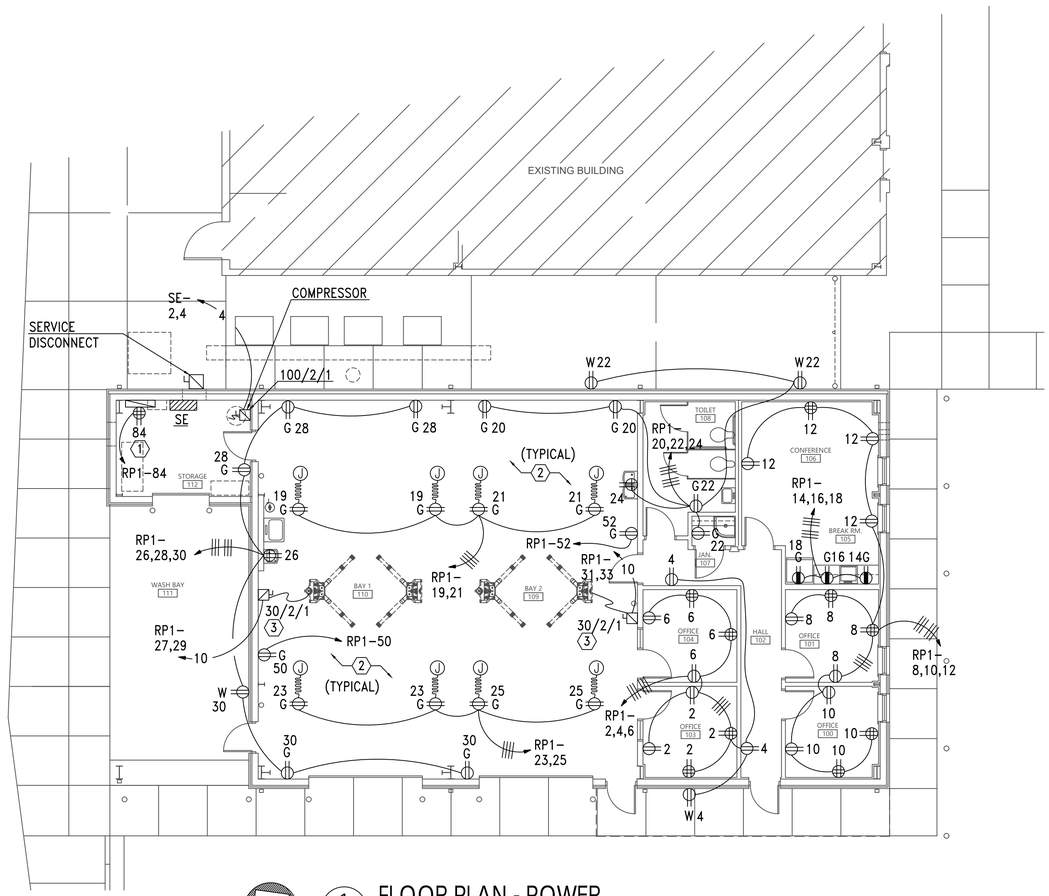
1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIABLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

SHEET NOTES:

(1) MOUNT RECEPTACLE AT HEIGHT NEEDED FOR COMM RACK.

(2) MOUNT RECEPTACLES IN THIS AREA 24" AFF.

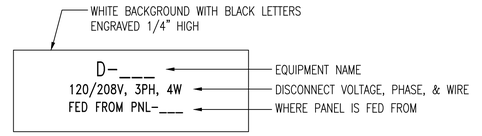
(3) COORDINATE ROUGH IN LOCATION WITH LIFT PROVIDER PRIOR TO BIDS.



N

1 E3.1 FLOOR PLAN - POWER

SCALE: 1/8"=1'-0"



TYPICAL NORMAL POWER NAMEPLATE

2 E3.1 DETAIL - TYPICAL DISCONNECT NAMEPLATE

NO SCALE

1/8" = 1'-0

8' 0 8 16 FT

GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED NO. 26988 PROFESSIONAL ENGINEER KENNETH RAY GUNN JR. 11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
FLOOR PLAN - POWER

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 33 OF 41

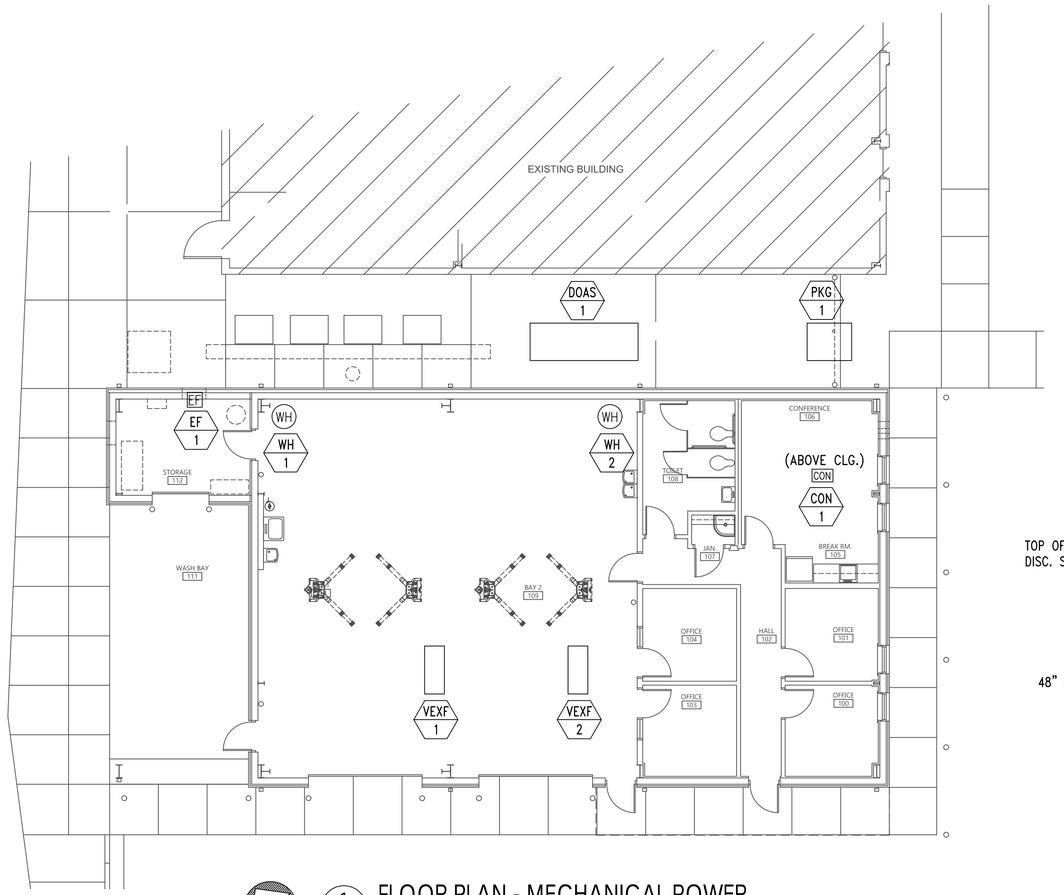
E3.1

PROJECT NAME AND JOB NUMBERS

GENERAL EQUIPMENT SCHEDULE

EQUIPMENT MARK:	EQUIPMENT DESCRIPTION:	VOLTAGE/PHASE:	ELECTRICAL CHARACTERISTICS:			DISCONNECT:	FUSE:	HOMERUN:	FEEDER:
			HP	KW	AMPS				
CON-1	CONTROL PANEL	120V/1PH	----	0.600	----	TS	----	RP1 - 17	2#12 & 1#12GRD - 3/4"C
DOAS-1	RECOVERY UNIT	208V/3PH	----	----	49	100/3/3R	F	SE - 14,16,18	3#4 & 1#8GRD - 1 1/4"C
EF-1	EXHAUST FAN	120V/1PH	1/3	----	----	TS	----	RP1 - 15	2#12 & 1#12GRD - 3/4"C
PKG-1	PACKAGED UNIT	208V/3PH	----	----	20	30/3/3R	F	SE - 7,9,11	3#6 & 1#10GRD - 1"C
VEXF-1	VEHICLE EXHAUST FAN	208V/3PH	1	----	----	30/3/1	F	SE - 43,45,47	3#12 & 1#12GRD - 3/4"C
VEXF-2	VEHICLE EXHAUST FAN	208V/3PH	1	----	----	30/3/1	F	SE - 49,51,53	3#12 & 1#12GRD - 3/4"C
WH-1	ELECTRIC WATER HEATER	208V/1PH	----	4.5	----	30/2/1	F	SE - 6,8	2#10 & 1#10GRD - 3/4"C
WH-2	ELECTRIC WATER HEATER	208V/1PH	----	4.5	----	30/2/1	F	SE - 10,12	2#10 & 1#10GRD - 3/4"C

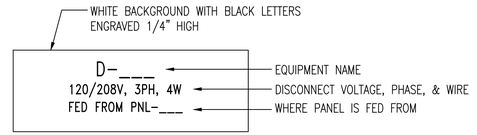
NOTES:
1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
4. "NF" - NON-FUSED
5. "F" - FUSED
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
8. "WP" - WEATHERPROOF ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



1 E3.2 FLOOR PLAN - MECHANICAL POWER
SCALE: 1/8"=1'-0"

GENERAL MECHANICAL POWER NOTES:

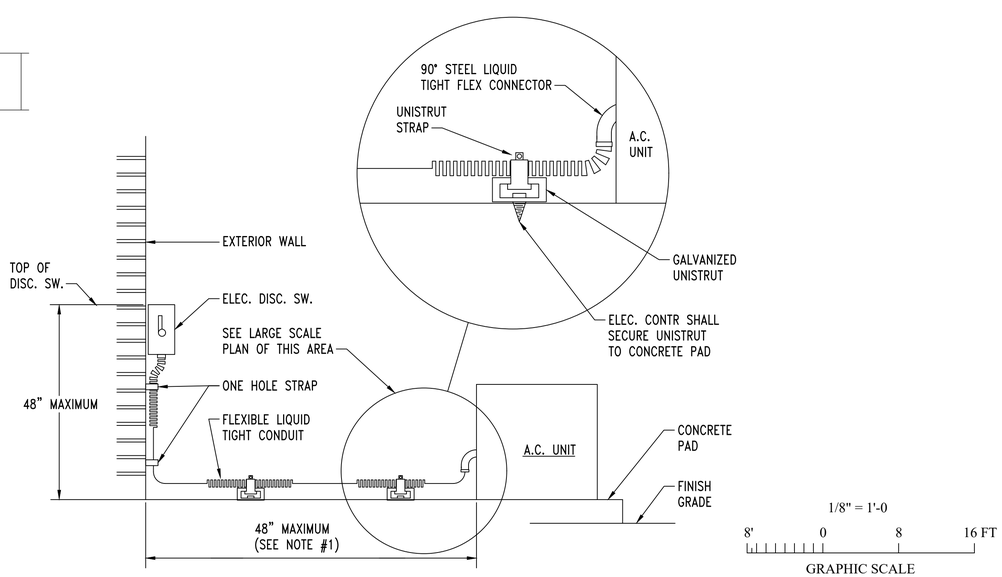
1. COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS, ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON THIS SHEET FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
9. SEE DETAIL (3) THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.



TYPICAL NORMAL POWER NAMEPLATE

2 E3.1 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

NOTE:
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



3 E3.1 MECHANICAL UNIT CONNECTION DETIAL
NO SCALE

1/8" = 1'-0
8' 0 8 16 FT
GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED
NO. 26988
PROFESSIONAL ENGINEER
KENNETH RAY GUNN JR.
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

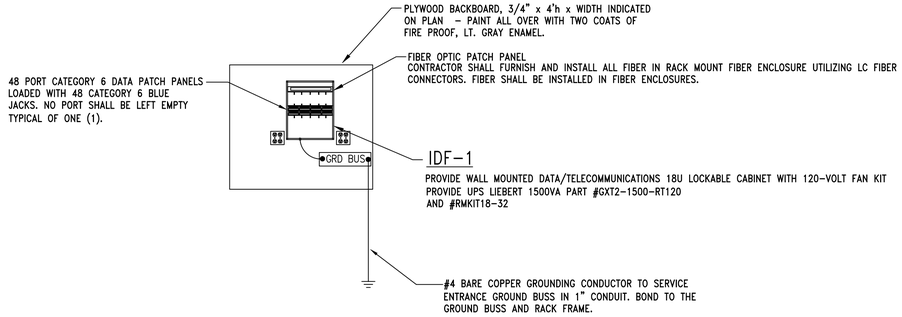
SHEET TITLE
FLOOR PLAN - MECHANICAL POWER

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 34 OF 41

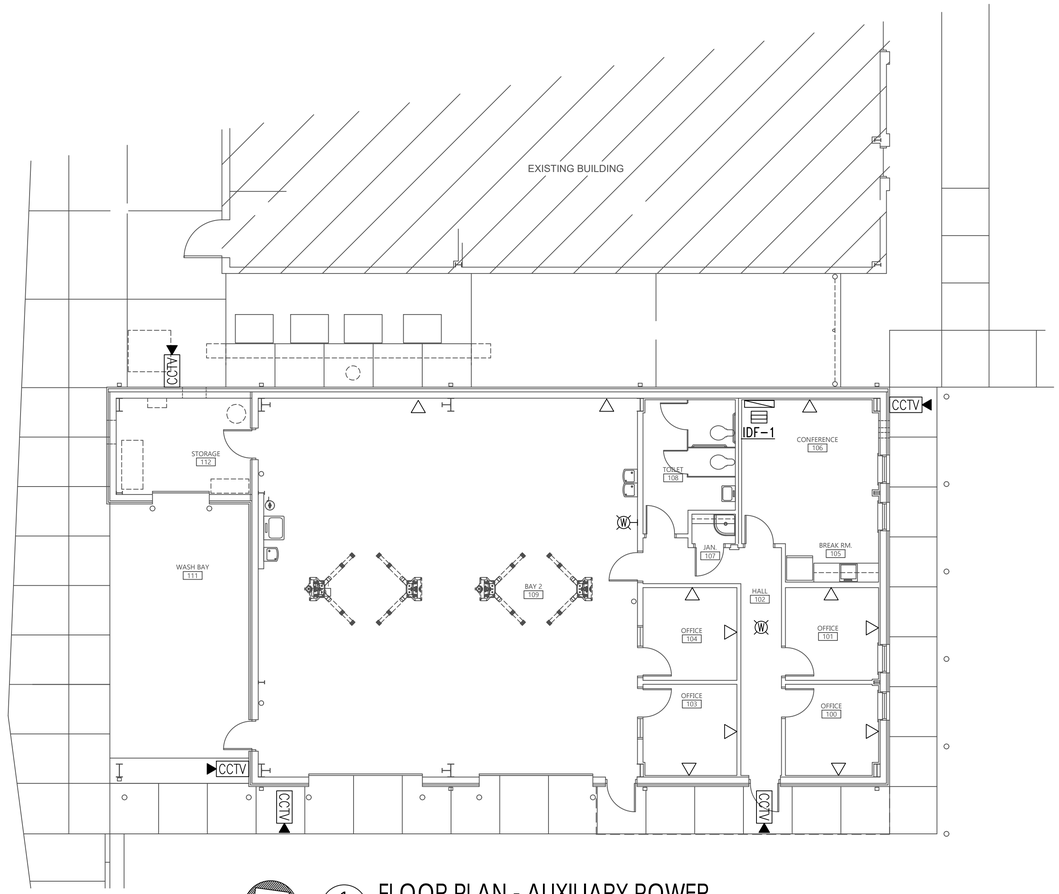
E3.2

PROJECT NAME AND JOB NUMBERS



2 E4.1 IDF-1 COMMUNICATIONS RACK ELEVATION

NO SCALE



N

1 E4.1 FLOOR PLAN - AUXILIARY POWER

SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. COORDINATE ALL MOUNTING HEIGHTS WITH MILLWORK SHOP DRAWINGS TO INSURE CORRECT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.

1/8" = 1'-0

8' 0 8 16 FT

GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED NO. 26988 PROFESSIONAL ENGINEER KENNETH RAY GUNN JR.
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
FLOOR PLAN - AUXILIAR

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 35 OF 41

E4.1

PROJECT NAME AND JOB NUMBERS

LIGHTING FIXTURE SCHEDULE

TYPE:	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE:	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:
LG22	HUBBELL NO. SRP22-40VLHE-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	4600 LUMEN	2'X2' 4600-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG48	HUBBELL NO. SRP24-40ML-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	5000 LUMEN	2'X4' 5000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG60	HUBBELL NO. SRP24-40HL-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	6000 LUMEN	2'X4' 6000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG72	HUBBELL NO. SRP24-40VL-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	7200 LUMEN	2'X4' 7200-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LS96	COLUMBIA NO. MPS8-40-UL-CW-EDU OR EQUALS BY WILLIAMS, OR COOPER	MVOLT	SURFACE OR CHAIN HUNG	LED	16924 LUMEN	MULTIPURPOSE LINEAR, NARROW STRIP LIGHT 8 FEET WITH FROSTED LINEAR PRISMED LENS. 0-10 DIMMING.
LV96	COLUMBIA NO. LXEM8-40VL-RFA-EDU OR EQUALS BY WILLIAMS, OR COOPER	MVOLT	SURFACE OR CHAIN HUNG	LED	6397 LUMEN	LED ENCLOSED & GASKETED, EXTEME ENVIORMENT 8 FEET LED WITH FROSTED RIBBED ACRYLIC LENS. 0-10 DIMMING.
WP1	HUBBELL NO. QSP-30L-4000K-053-TYPE 3-U-COLOR BY ARCH - SCP-20F OR PRIOR APPROVED EQUALS BY WILLIAMS, OR COOPER	MVOLT	WALL	LED	5700 LUMEN	DARK BRONZE EXTERIOR LED LIGHT. UL LISTED FOR WET LOCATIONS.
EM WALL PACK	COMPASS NO. CU2HLHOSD - WIREGUARDS IN GYM OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PRESCOLITE	MVOLT	WALL	LED	1000 LUMEN	1000 LUMEN LED EMERGENCY WALL PACK
EXIT SIGN COMBO "XB"	DUAL-LITE NO. EVCHLU*W12-06L OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PRESCOLITE	MVOLT	UNIVERSAL	LED	1000 LUMEN	THERMOPLASTIC 1000-LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. COORDINATE COLOR OF SIGNAGE WITH LOCAL REQUIREMENTS. PROVIDE WITH EMERGENCY BATTERY. PROVIDE WIREGUARDS IN GYM.

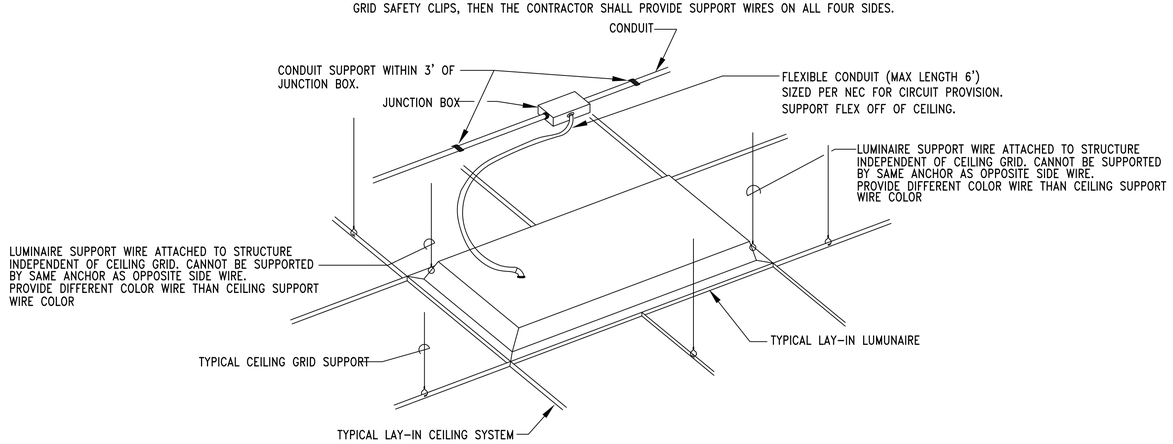
NOTES:
1. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.
2. COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION
3. PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90-MINUTES. ALL EMERGENCY LIGHTS IN SAFE AREA SHALL BE CONNECTED TO THE BATTERY INVERTER FOR 180-MINUTES OF RUN TIME.
4. FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIABLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.
5. ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERTURE LAMPS, UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR LIGHTS SHALL HAVE 4000K TEMPERTURE LAMPS.
7. LIGHTS SPECIFIED WILL BE USED AT BOTH 120V AND 277V CIRCUITS. PROVIDE UNIVERSAL TYPE VOLTAGE DRIVERS FOR ALL LIGHT FIXTURES. IF A SPECIFIC VOLTAGE IS REQUIRED, LIGHTING MANUFACTURER AND CONTRACTOR SHALL WORK TOGETHER TO PROVIDE THE REQUIRED VOLTAGES FOR EACH OF THE DIFFERENT FACILITIES. ENGINEER WILL NOT BE RESPONSIBLE FOR THIS COORDINATION DURING SUBMITTALS. WE WILL ASSUME THE VOLTAGE SUBMITTED IS CORRECT.

LUMINAIRE NOTES:

1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION
4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIABLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
7. ALL LED LUMINARIES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
8. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
9. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
10. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
11. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
12. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

NOTES:

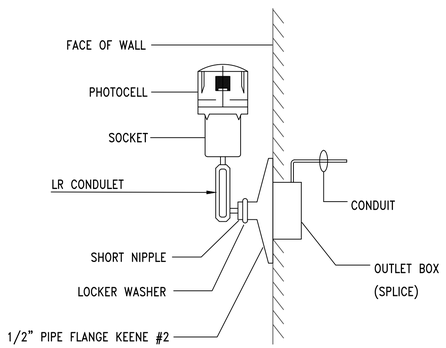
1. ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
2. LUMINAIRE SUPPORT WIRES TO BE A MINUMUM OF #14 GAGE PRE-STRAINED GALVINIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
3. CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
4. JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
5. CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



1 E5.1 DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION
NO SCALE

NOTES

1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



2 E5.1 DETAIL - INSTALLATION OF PHOTO-CELL
NO SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED PROFESSIONAL ENGINEER
KENNETH RAY GUNN JR.
NO. 26988
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
LIGHTING SCHEDULE, DETAILS & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 36 OF 41

E5.1

PROJECT NAME AND JOB NUMBERS

PANEL - SE

TYPE: 400 AMP MAIN LUG ONLY | AIC: 65,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

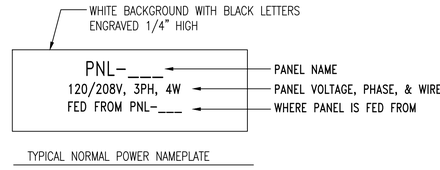
CIRCUIT DIRECTORY	(VA) PER PHASE A	(VA) PER PHASE B	(VA) PER PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE A	(VA) PER PHASE B	(VA) PER PHASE C	CIRCUIT DIRECTORY
EXTERIOR LIGHTS	410			20	1	1	2	20	1	1,200			RECEPTACLE
LIGHTING		1,306		20	1	3	4	20	1		1,200		RECEPTACLE
SHOP LIGHTS			1,330	20	1	5	6	20	1			1,200	RECEPTACLE
SHOP LIGHTS	1,521			20	1	7	8	20	1	1,200			RECEPTACLE
SPARE				20	1	9	10	20	1		1,200		RECEPTACLE
SPARE				20	1	11	12	20	1			1,200	RECEPTACLE
SPARE				20	1	13	14	20	1	1,200			RECEPTACLE
EF-1		864		20	1	15	16	20	1		1,200		RECEPTACLE
CON-1			600	20	1	17	18	20	1			1,200	RECEPTACLE
RECEPTACLE	1,200			20	1	19	20	20	1	1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	21	22	20	1		1,200		RECEPTACLE
RECEPTACLE			1,200	20	1	23	24	20	1			900	EWC
RECEPTACLE	1,200			20	1	25	26	20	1	1,200			RECEPTACLE
LIFT #1		1,373		30		27	28	20	1		1,200		RECEPTACLE
			1,373		2	29	30	20	1			900	EWC
LIFT #2	1,373			30		31	32	70		3,203			COMPRESSOR (5HP 1 PH)
		1,373			2	33	34		2		3,203		
SPARE				20	1	35	36	30				2,250	WH-1
PKG-1	1,920			30		37	38		2	2,250			
		1,920				39	40	30			2,250		WH-2
			1,920		3	41	42		2			2,250	
VEXF-1 (1HP)	576			20		43	44	70		4,733			DOAS-1
		576				45	46				4,733		
			576		3	47	48		3			4,733	
VEXF-2 (1HP)	576			20		49	50	20	1	1,200			RECEPTACLE
		576				51	52						SPARE
			576		3	53	54						SPARE
						55	56						SPARE
						57	58						SPARE
						59	60						SPARE
BUSSED SPACE						61	62						SPARE
BUSSED SPACE						63	64						SPARE
BUSSED SPACE						65	66						SPARE
BUSSED SPACE						67	68						SPARE
BUSSED SPACE						69	70						SPARE
BUSSED SPACE						71	72						SPARE
BUSSED SPACE						73	74						SPARE
BUSSED SPACE						75	76						SPARE
BUSSED SPACE						77	78						SPARE
BUSSED SPACE						79	80						SPARE
BUSSED SPACE						81	82						SPARE
BUSSED SPACE						83	84	20	1			600	TBB
SUB TOTAL (VA)	8,776	9,188	7,575							17,386	16,186	15,233	

TOTAL LOAD PHASE A: 26,162 (VA)
TOTAL LOAD PHASE B: 25,374 (VA)
TOTAL LOAD PHASE C: 22,808 (VA)
TOTAL LOAD: 74,344 (VA) = 207 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE WITH INTEGRAL TVSS WITH 160,000 AMPS PER MODE PROTECTION.
3. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAIL.
4. PROVIDE ARC FAULT LABEL PER DETAILS.
5. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.

PANELBOARD NOTES:

1. PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
6. PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
7. ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
8. PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
9. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
10. ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
11. COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
12. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.



TYPICAL NORMAL POWER NAMEPLATE

1 / E5.2 — DETAIL - TYPICAL PANELBOARD NAMEPLATE
NO SCALE

NOTES:
1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	4"	6"
OUTDOOR	4"	6"

2 / E5.2 — ARC FLASH WARNING LABELS
NO SCALE

POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO THE JOB SITE S REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J Architects inc.
Alabama
Montgomery,

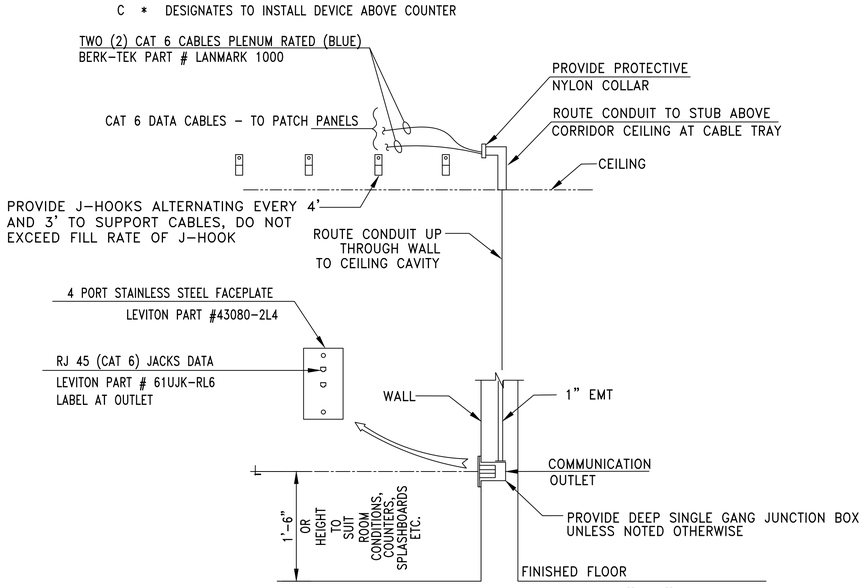
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED NO. 26988 PROFESSIONAL ENGINEER KENNETH RAY GUNN, JR. 11-20-2025

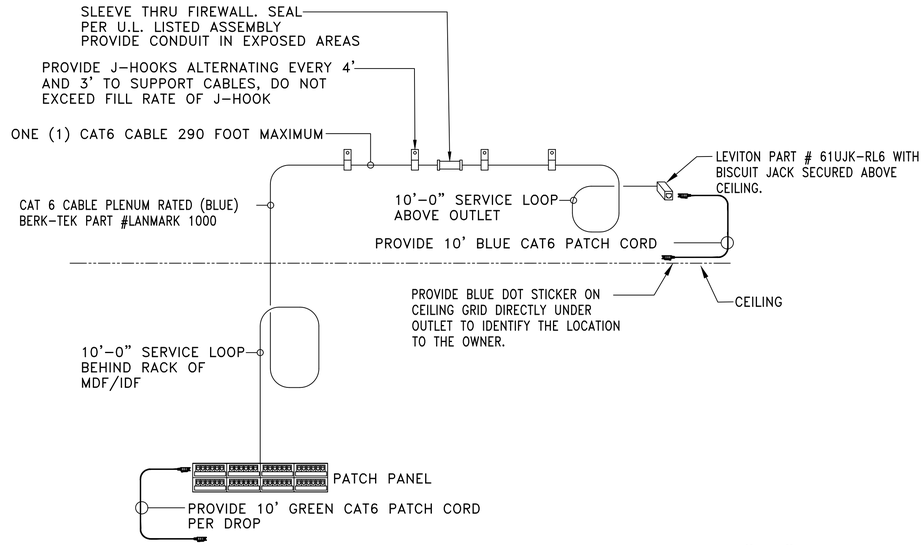
DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	PANELBOARD SCHEDULE, DETAILS & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	37 OF 41

E5.2

PROJECT NAME AND JOB NUMBERS

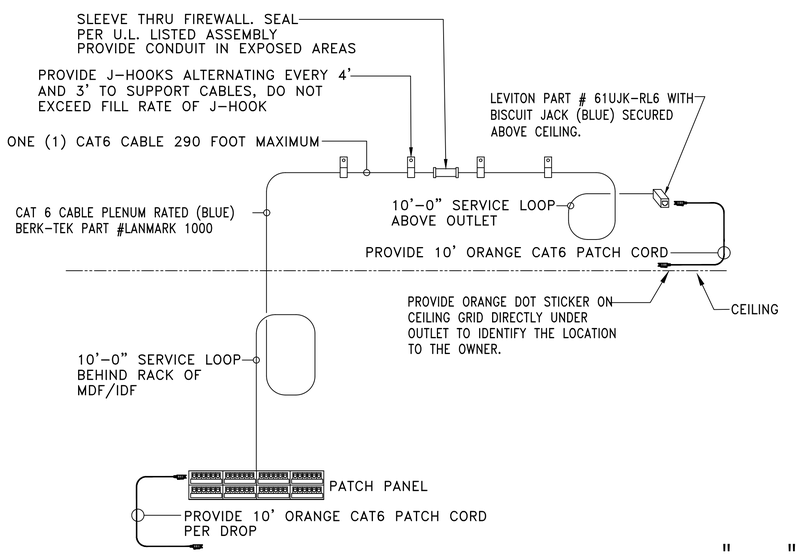


1 E6.1 DETAIL - TYPICAL COMMUNICATIONS OUTLET "▽"
NO SCALE



2 E6.1 DETAIL - TYPICAL WIRELESS ACCESS POINT OUTLET "W"
NO SCALE

* NOTE: EXTERIOR CAMERAS PROVIDE SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR CAMERA KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



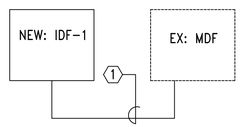
3 E6.1 DETAIL - TYPICAL WIRELESS ACCESS POINT OUTLET "CCTV"
NO SCALE

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE A 6 STRAND OM3 MM 50-MICRON FIBER OPTIC CABLE INTERCONNECTING THE EXISTING MDF TO THE NEW IDF-1. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING MDF IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. SEE ELECTRICAL SITE PLAN FOR CONDUIT REQUIREMENTS. PROVIDE J-HOOKS ABOVE CEILINGS TO SUPPORT FIBER IN CONCEALED AREAS. PROVIDE CONDUIT IN EXPOSED AREAS.

COMMUNICATION NOTES:

1. PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
2. TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDENT PAINT. MOUNT 2' AFF.
3. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
4. ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
5. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
6. PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
7. PROVIDE ALL CONDUITS WITH MINIMUM #800 MULE TAPE (PULL TAPE).
8. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
9. ELECTRICAL CONTRACTOR WILL BE RESPONSIABLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
10. BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.



4 E6.1 COMMUNICATIONS RISER DIAGRAM
NO SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED NO. 26988 PROFESSIONAL ENGINEER KENNETH RAY GUNN JR. 11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
COMMUNICATION DETAILS & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

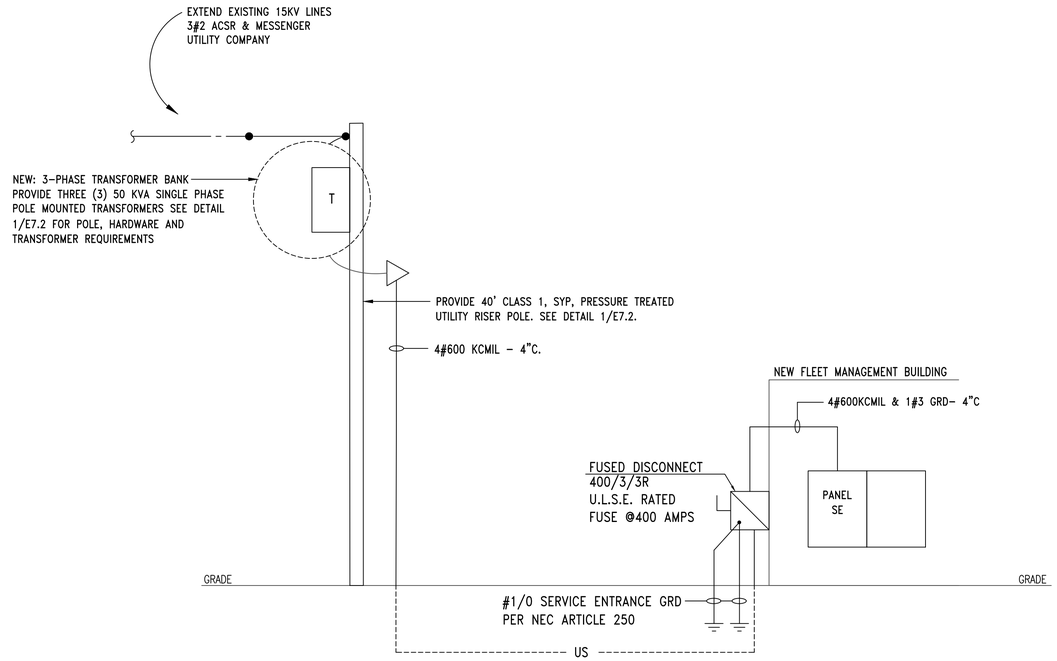
SEQUENCE NO. 38 OF 41

E6.1

PROJECT NAME AND JOB NUMBERS

POWER RISER DIAGRAM NOTES:

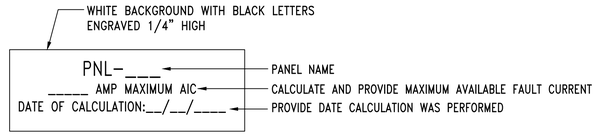
1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING . CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. ALABAMA POWER COMPANY WILL BE FURNISHING THE OVERHEAD SECONDARY TO THE WEATHERHEADS COORDINATE WITH ALABAMA POWER ALL REQUIREMENTS SET FORTH BY THE UTILITY COMPANY AND PAY FOR ALL FEES TO GET POWER CONNECTED TO BUILDING. COORDINATE PRIOR TO BID AND BID ACCORDINGLY.
6. PROVIDE UNISTRUT SUPPORT ACROSS STRUCTURE WITH ANCHOR BOLT TO SUPPORT THE MOUNTING OF WEATHERHEADS TO THE SIDE OF THE BUILDING.



1 / E7.1 — POWER RISER DIAGRAM
NO SCALE

NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCUALTION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

2 / E7.1 — DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE
NO SCALE

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED PROFESSIONAL ENGINEER
KENNETH RAY GUNN JR.
NO. 26988
11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE: POWER RISER DIAGRAM, DETAILS & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 39 OF 41

E7.1

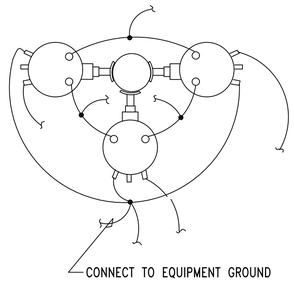
Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PROJECT NAME AND JOB NUMBERS

KEYED NOTES

1. POLE – 40 FT PRESSURE TREATED SYP. BURY 6 FEET.
2. 40" (1.016m) STEEL CROSSARM, DEAD-END TYPE
3. TRANSFORMER RADIAL BRACKET, 3 PHASE
4. MACHINE BOLT, 5/8"(15.875mm) x LENGTH REQ, WITH WASHER NUT AND LOCKNUT ASSEMBLY
5. JUMPERS AS REQUIRED
6. PROTECTIVE WOOD MOLDING OVER SOLID COPPER CONDUCTOR NOTED
7. SURGE ARRESTOR
8. 15KV PRIMARY FUSED CUTOUT, 100 AMP (8E FUSE), OPEN TYPE. SEE DETAIL THIS SHEET
9. CUTOUT AND ARRESTOR MOUNTING BRACKET
10. HOT LINE CLAMP
11. DEAD-END SINGLE-SUSPENSION INSULATOR
12. DEAD-END ASSEMBLY
13. GUY WIRE, SEE DETAIL 1/E7.3
14. THRU-BOLT FOR INSULATOR
15. CLEVIS FOR NEUTRAL SUPPORT
16. PROVIDE UTILITY POLE GROUNDING PER NESC

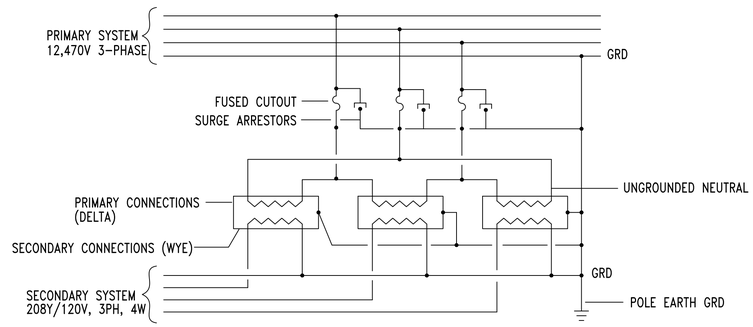
DIMENSION BLOCK		
REF	ENGLISH	SI
A	0'-9"	228.6mm
B	4'-0"	1.2192m
C	5'-0"	1.524m



TOP VIEW OF TRANSFORMER CONNECTIONS

INSTALLATION NOTES

1. FURNISH AND INSTALL A COMPLETE ASSEMBLY INCLUDING DEVICES, SUPPORTS, GROUNDING, CONDUCTORS, ETC.



WIRING DIAGRAM

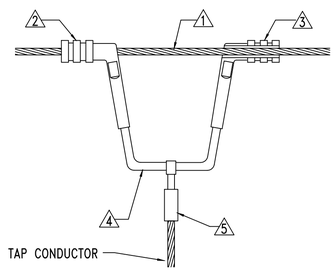
DIAGRAM OF TRANSFORMER CONNECTIONS 3-50KVA SINGLE PHASE TYPE

KEYED NOTES

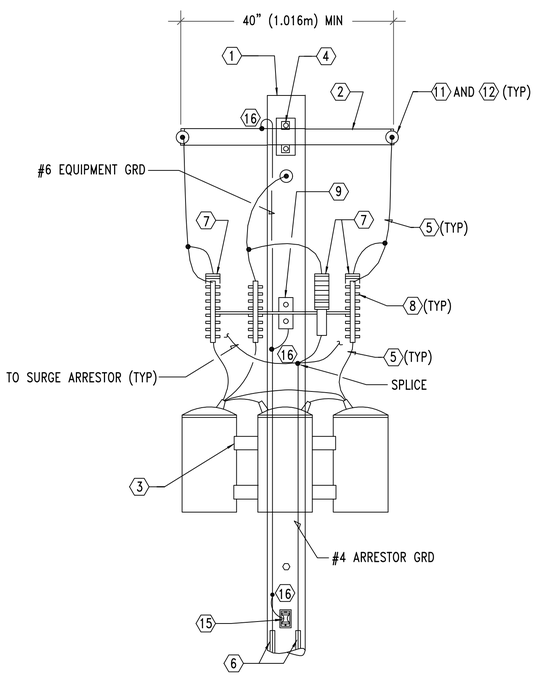
1. OVERHEAD PRIMARY CONDUCTOR
2. ONE-PIECE COMPRESSION CONNECTOR LINE CLAMP, SHOWN AFTER COMPRESSION
3. ONE-PIECE COMPRESSION CONNECTOR LINE CLAMP, SHOWN BEFORE COMPRESSION
4. SOLID COPPER, PLATED BAIL
5. COMPRESSION TAP FITTING

INSTALLATION NOTES

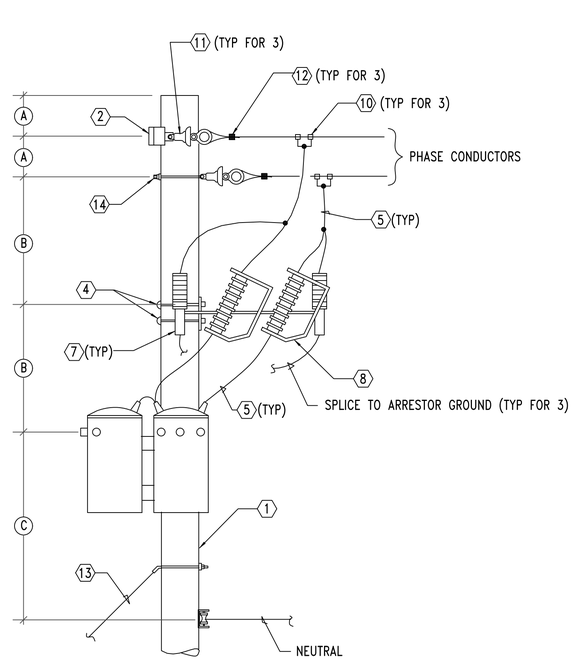
1. FURNISH THE PROPER SIZE PER MANUFACTURER'S RECOMMENDATION FOR THE CONDUCTORS UTILIZED WITH CURRENT RATING EQUAL TO MAXIMUM LINE CONNECTION.
2. USE THE PROPER TOOLING AS RECOMMENDED AND/OR FURNISHED BY THE MANUFACTURER.



2 E7.2 DETAIL - COMPRESSION SPLICE FOR 15KV OH CABLE
N.T.S.



FRONT VIEW



SIDE VIEW

1 E7.2 DETAIL - TYPICAL POLE MOUTED TRANSFORMERS, CUTOUTS, ARRESTORS AND POLE HARDWARE
N.T.S.

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED
NO. 26988
PROFESSIONAL ENGINEER
KENNETH RAY GUNN JR.
11-20-2025

DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	

SHEET TITLE
POWER RISER DIAGRAM, DETAILS & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 40 OF 41

E7.2

PROJECT NAME AND JOB NUMBERS

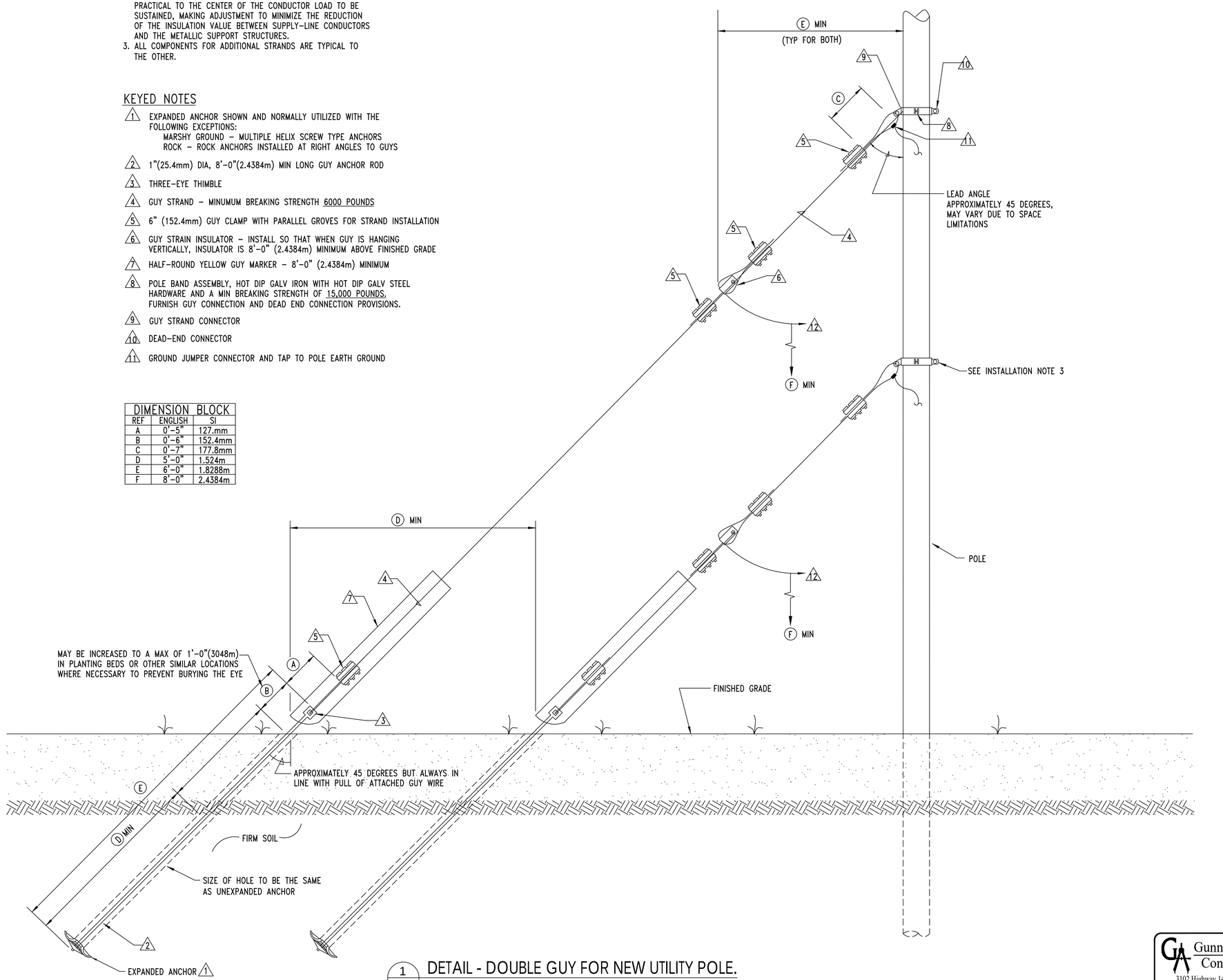
INSTALLATION NOTES

1. DIMENSIONS SHOWN ARE APPROXIMATE AFTER STRAIN IS APPLIED.
2. EACH GUY SHOULD BE ATTACHED TO THE POLE AS NEAR AS IS PRACTICAL TO THE CENTER OF THE CONDUCTOR LOAD TO BE SUSTAINED, MAKING ADJUSTMENT TO MINIMIZE THE REDUCTION OF THE INSULATION VALUE BETWEEN SUPPLY-LINE CONDUCTORS AND THE METALLIC SUPPORT STRUCTURES.
3. ALL COMPONENTS FOR ADDITIONAL STRANDS ARE TYPICAL TO THE OTHER.

KEYED NOTES

1. EXPANDED ANCHOR SHOWN AND NORMALLY UTILIZED WITH THE FOLLOWING EXCEPTIONS:
   MARSHY GROUND – MULTIPLE HELIX SCREW TYPE ANCHORS
   ROCK – ROCK ANCHORS INSTALLED AT RIGHT ANGLES TO GUYS
2. 1"(25.4mm) DIA, 8'-0"(2.4384m) MIN LONG GUY ANCHOR ROD
3. THREE-EYE THIMBLE
4. GUY STRAND – MINUMUM BREAKING STRENGTH 6000 POUNDS
5. 6" (152.4mm) GUY CLAMP WITH PARALLEL GROVES FOR STRAND INSTALLATION
6. GUY STRAIN INSULATOR – INSTALL SO THAT WHEN GUY IS HANGING VERTICALLY, INSULATOR IS 8'-0" (2.4384m) MINIMUM ABOVE FINISHED GRADE
7. HALF-ROUND YELLOW GUY MARKER – 8'-0" (2.4384m) MINIMUM
8. POLE BAND ASSEMBLY, HOT DIP GALV IRON WITH HOT DIP GALV STEEL HARDWARE AND A MIN BREAKING STRENGTH OF 15,000 POUNDS. FURNISH GUY CONNECTION AND DEAD END CONNECTION PROVISIONS.
9. GUY STRAND CONNECTOR
10. DEAD-END CONNECTOR
11. GROUND JUMPER CONNECTOR AND TAP TO POLE EARTH GROUND

DIMENSION BLOCK		
REF	ENGLISH	SI
A	0'-5"	127.mm
B	0'-6"	152.4mm
C	0'-7"	177.8mm
D	5'-0"	1.524m
E	6'-0"	1.8288m
F	8'-0"	2.4384m



1 / E7.3 DETAIL - DOUBLE GUY FOR NEW UTILITY POLE.
N.T.S.

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#25-195

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED PROFESSIONAL ENGINEER
NO. 26988
11-20-2025
KENNETH RAY GUNN JR

DRAWN J.C.T.	CHECK K.R.G.
DATE NOVEMBER 20, 2025	
REVISED	
REVISED	

SHEET TITLE
POWER RISER DIAGRAM
DETAILS & NOTES

JOB NO. PH&J #2502-CUA
DCM #2025417

SEQUENCE NO. 41 OF 41

E7.3

PROJECT NAME AND JOB NUMBERS