EXPRESS OIL & TIRE ENGINEERS - OCEAN SPRINGS, MS

EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MISSISSIPPI, 39564
JACKSON COUNTY

4.96 ACRES

ZONING: REGIONAL COMMERCIAL

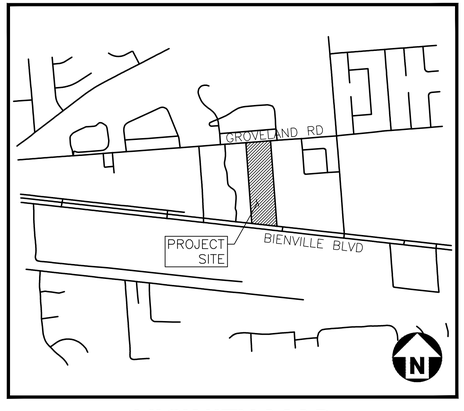
CONSTRUCTION DRAWINGS

PROJECT NUMBER: EXO-25010

DATE: APRIL 28, 2026

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VICINITY MAP
N.T.S.

McAdams
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CONTACT

BRITTANY YOUNGBLOOD
BYOUNGBLOOD@MCADAMSCO.COM
PHONE: 469. 240. 9624

CLIENT

JUSTIN DUCK
1880 SOUTHPARK DRIVE
BIRMINGHAM, ALABAMA 35244
PHONE: 501. 840. 0001

THIS DOCUMENT IS RELEASED ON 6/26/2026 FOR THE PURPOSE OF OBTAINING PRELIMINARY BID NUMBERS, AND ARE NOT APPROVED FOR PERMITTING OR CONSTRUCTION.

UNDER THE AUTHORITY OF NORMAN RAY WATSON, JR. LICENSE #14548 IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

FINAL SIGNED AND SEALED PLANS SHALL BE ISSUED PRIOR TO THE RELEASE FOR CONSTRUCTION.

REVISIONS

NO.	DATE

CONSTRUCTION DRAWINGS FOR:

EXPRESS OIL CHANGE & TIRE ENGINEERS
OCEAN SPRINGS, MISSISSIPPI, 39564
PROJECT NUMBER: EXO-25010

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

Z:\Drive\Projects\EXO\EXO25010\04-Production\Engineering\Current Drawings\Sheets\EXO25010-C01.dwg, 6/26/2026 4:09:47 PM, Keeton Zachary



VICINITY MAP
(NOT TO SCALE)

PROPERTY DESCRIPTION PER TITLE COMMITMENT:

Parcel 60127260.000 the City of Ocean Springs, Jackson County, Mississippi

PROPERTY DESCRIPTION AS SURVEYED:
PARCEL 60127260.000

From the section corner common to Section 21, 22, 27, 28, Township 7 North, Range 8 West, Jackson County, Mississippi; thence East along the section line of section 27 a distance of 4691.00 feet to a point; thence South a distance a distance of 30' to a point on the south right of way of Groveland Road (60' right of way) which is the point of beginning of property herein described; thence North 89°51'05" East a distance of 246.56 feet to a point; thence South 00°00'00" East a distance of 1136.35 feet to the north right of way of Bienville Boulevard (200' right of way) to a flagged rebar; thence North 79°23'53" West on said north right of way of Bienville Boulevard a distance of 158.26 feet to a capped rebar set; thence North 00°00'00" West a distance of 651.89 feet to a point; thence South 90°00'00" West a distance of 91.00 feet to a point; thence North 00°00'00" West a distance of 454.71 feet to the point of beginning of said property containing 4.955 +/– acres.

PARCEL 60127260.000 LOT A

From the section corner common to Section 21, 22, 27, 28, Township 7 North, Range 8 West, Jackson County, Mississippi; thence East along the section line of section 27 a distance of 4691.00 feet to a point; thence South a distance a distance of 30' to a point on the south right of way of Groveland Road (60' right of way) which is the point of beginning of property herein described; thence North 90°00'00" East a distance of 155.56 feet to a capped rebar set; thence South 00°00'00" East a distance of 809.26 feet to a capped rebar set; thence North 79°23'53" West a distance of 158.26 feet to a capped rebar set; thence North 00°00'00" West a distance of 353.91 feet to a point; thence South 90°00'00" West a distance of 91.00 feet to a point; thence North 00°00'00" West a distance of 454.71 feet to the point of beginning of said property containing 3.839 +/– acres.

PARCEL 60127260.000 LOT B

From the section corner common to Section 21, 22, 27, 28, Township 7 North, Range 8 West, Jackson County, Mississippi; thence East along the section line of section 27 a distance of 4691.00 feet to a point; thence South a distance a distance of 30' to a point on the south right of way of Groveland Road (60' right of way); thence North 89°51'05" East a distance of 246.56 feet to a point; thence South 00°00'00" East a distance of 809.26 feet to a capped rebar set which is the point of beginning of property herein described; thence South 00°00'00" East a distane of 327.09 feet the North right of way of Bienville Boulevard (200' right of way) to a flagged rebar; thence North 79°23'53" West on said north right of way of Bienville Boulevard a distance of 158.26 feet to a capped rebar set; thence North 00°00'00" West a distance of 297.97 feet to a capped rebar set; thence North 90°00'00" East a distance of 155.56 feet to the point of beginning of said property containing 1.116 +/– acres.

GPS NOTES AND METADATA

Horizontal coordinates and bearings are relative to grid north as per the Mississippi East State Plane Coordinate System, NAD 83 as determined using the Mississippi Department of Transportation VRS GNSS network operated by the University of Southern Mississippi in conjunction with the Gulf Coast Geospatial Center. Topcon HR RTK GPS units were used for establishing Horizontal control on this project as broadcast on December 16, 2025.

Distances shown on this plat are in US Survey Feet and can be converted to meters by multiplying by 0.3048

Vertical elevations shown hereon are based upon: using the Mississippi Department of Transportation VRS GNSS network operated by the University of Southern Mississippi in conjunction with the Gulf Coast Geospatial Center. Topcon HR RTK GPS units were used for establishing vertical control on this project as broadcast on December 16, 2025.
Mississippi Department of Transportation CORS network relative to NAVD88 datum.

Site control points are shown hereon.

GENERAL NOTES

Flood Note: Subject parcel lies within Zones X and X Shaded, an area of 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile per FEMA rate map 28059C0292G with an effective date of 3/16/2009 in the City of Ocean Springs community 285259.

Note: No visible, obvious or apparent indications of existing burial grounds or cemeteries were observed during the course of this survey. No visible, obvious or apparent indications of wetlands were observed during the course of this survey. OHM Advisors does not express any expertise in the recognition of burial grounds, cemeteries nor wetlands.

Note: This survey was made in accordance with and relying upon Chicago Title Insurance Company Title Commitment Number 251882 dated December 17, 2025 at 8:00 AM.. No guarantee is made or implied as to the completeness of said title. The property depicted on this survey is subject to any and all easements, recorded or unrecorded, shown or not shown on this survey.

Note: North as shown hereon is based upon Grid North as per the Mississippi East State Plane Coordinate System NAD83 as per the Mississippi Department of Transportation CORS .

Note: This plat was prepared from deed description and found evidence.

Note: There are no visible and or apparent encroachments or projections other than those shown hereon.

The field information shown for this topographic survey was derived from random shots utilizing a combination of conventional total station methods and GPS RTK observation methods.

The contour interval for this survey is: one (1) foot. The contour shown are believed to be accurate within ± one half of the accuracy of the contour interval.

Note: Location of underground utilities (shown or not shown) is approximate only. Location, preservation and repair of all utilities (shown or not shown hereon) is the sole responsibility of the contractor or homeowner. Contractor or homeowner should inform proper utility companies prior to the initiation of any construction. OHM Advisors will not be held responsible for damage to any utilities (shown or not shown).

Note: Utility information shown hereon is based upon utilities marked as a result of a Mississippi 811 call. Locate Request Ticket Number 2512511020649.

SCHEDULE B SECTION II NOTES

To the best of my knowledge and belief, this property is subject to the following land title survey matters of record as stated per Chicago Title Insurance Company Commitment Number 251882, dated December 17, 2025 at 8:00 a.m. unless otherwise noted below.

As to the following exceptions as stated in Schedule B – Section II of said title insurance policy, do or do not affect the surveyed land as noted:

Exceptions 1–3, 6–13, 15–16, and 18 do not pertain to this survey.

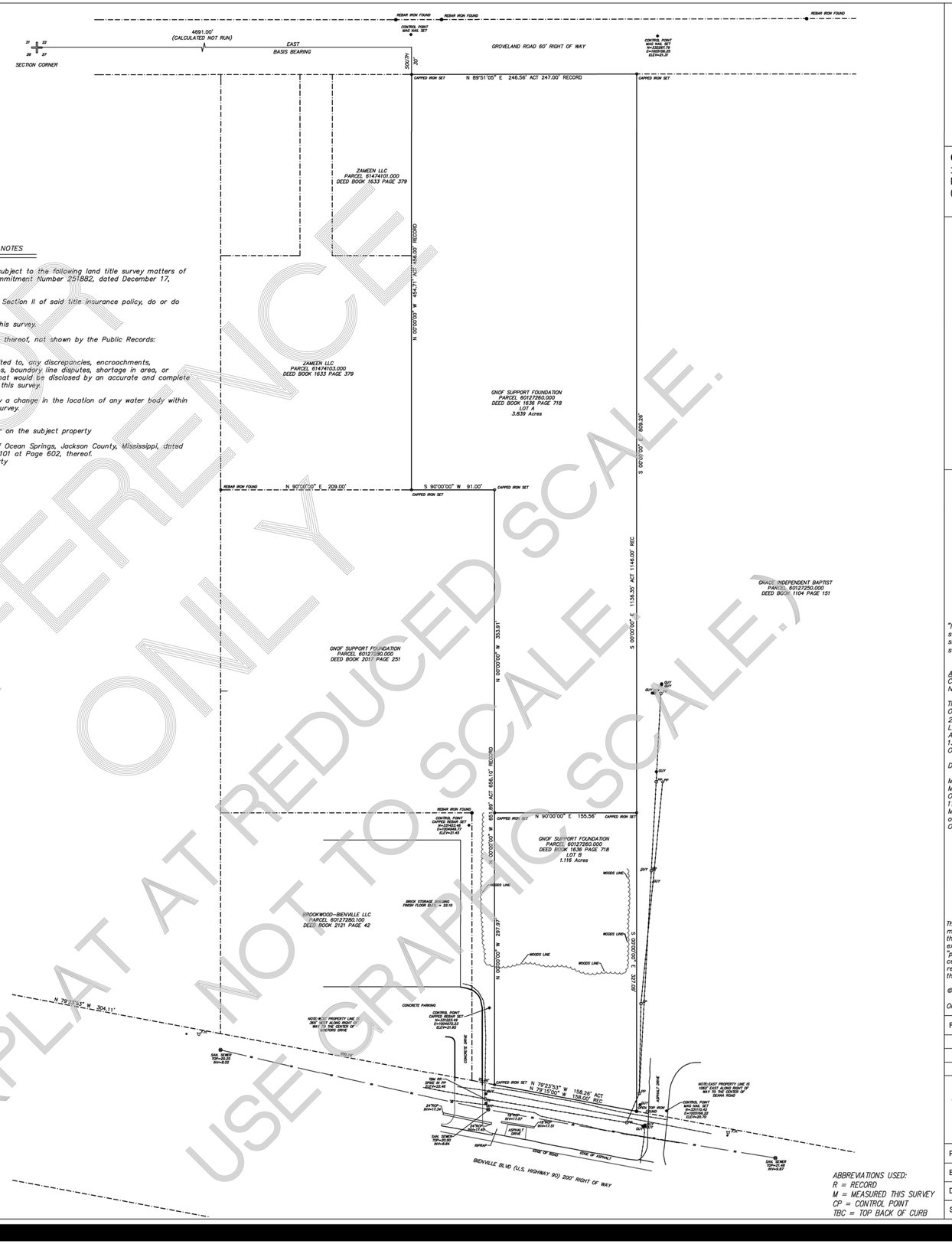
Exception 4: Easements, liens or encumbrances, or claims thereof, not shown by the Public Records:
Not applicable to this survey.

Exception 5: All matters and facts, including, but not limited to, any discrepancies, encroachments, encumbrances, violations, variations, overlaps, boundary line disputes, shortage in area, or adverse circumstances affecting the Title that would be disclosed by an accurate and complete land survey of the Land. Not applicable to this survey.

Exception 14: Any dispute as to the boundaries caused by a change in the location of any water body within or adjacent to the Not applicable to this survey.

Exception 17: Easements of record, if any.
No easements where found by this surveyor on the subject property

Exception 19: Subject to Easement in favor of the City of Ocean Springs, Jackson County, Mississippi, dated November 8, 1996, and recorded in Book 1101 at Page 602, thereof.
Easement does not apply to subject property



ABBREVIATIONS USED:
R = RECORD
M = MEASURED THIS SURVEY
CP = CONTROL POINT
TBC = TOP BACK OF CURB

REFERENCE ONLY
(PLAT AT REDUCED SCALE.)
NOT TO SCALE.
USE GRAPHIC SCALE.)

OHM ADVISORS
1100 Dauphin St.
Mobile, Alabama 36604
(251) 656-0955

N
W E
S

GRID NORTH
MISSISSIPPI STATE PLANE EAST ZONE
HORIZONTAL DATUM = NAD83 (2011)
DISTANCES ARE GRID DISTANCES

GRAPHIC SCALE: 1" = 60'

60' 0 60'

GENERAL NOTES

This survey was requested by and performed for:
Brittany Youngblood
Josh Barton, PE
McAdams
4400 State Highway 121
Suite 800
Lewisville, Texas 75056

Date of field survey: 12/16/2025 thru 1/28/2026
Date corners set: TBD AFTER SURVEY AND PLAT ARE FINALIZED

CERTIFICATE OF SURVEY

"I hereby certify that this is an Urban Area (Class A Property) survey and the Relative Positional Accuracy is ± 0.25 feet as shown hereon, and meets the minimum standards for land surveys in the State of Mississippi at the time of the survey."

ALTA/ACSM CERTIFICATE:
CERTIFIED TO: McAdams, Express Oil Change, L.L.C. and Fidelity National Title Insurance Company.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA\NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1,2,4,5,8,11A&B, 13,14 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JANUARY 28, 2026.

DATE OF MAP OR PLAT: FEBRUARY 4, 2026

Michael A. Brock
MS PS 3163
OHM Advisors
1100 Dauphin St.
Mobile, AL, 36604
office: 251-656-0955
OHM Advisors COA S-36217

PRELIMINARY FOR REVIEW

The word "certify" or "certificate" as shown and used hereon means an expression of professional opinion regarding the facts of the survey and does not constitute a warranty or guarantee, expressed or implied. This certification is not meant to imply "perfection", it is meant to imply "free from negligence". This certification is meant to express that the normal standard of reasonable, ordinary, and customary care has been followed during the course of this survey.

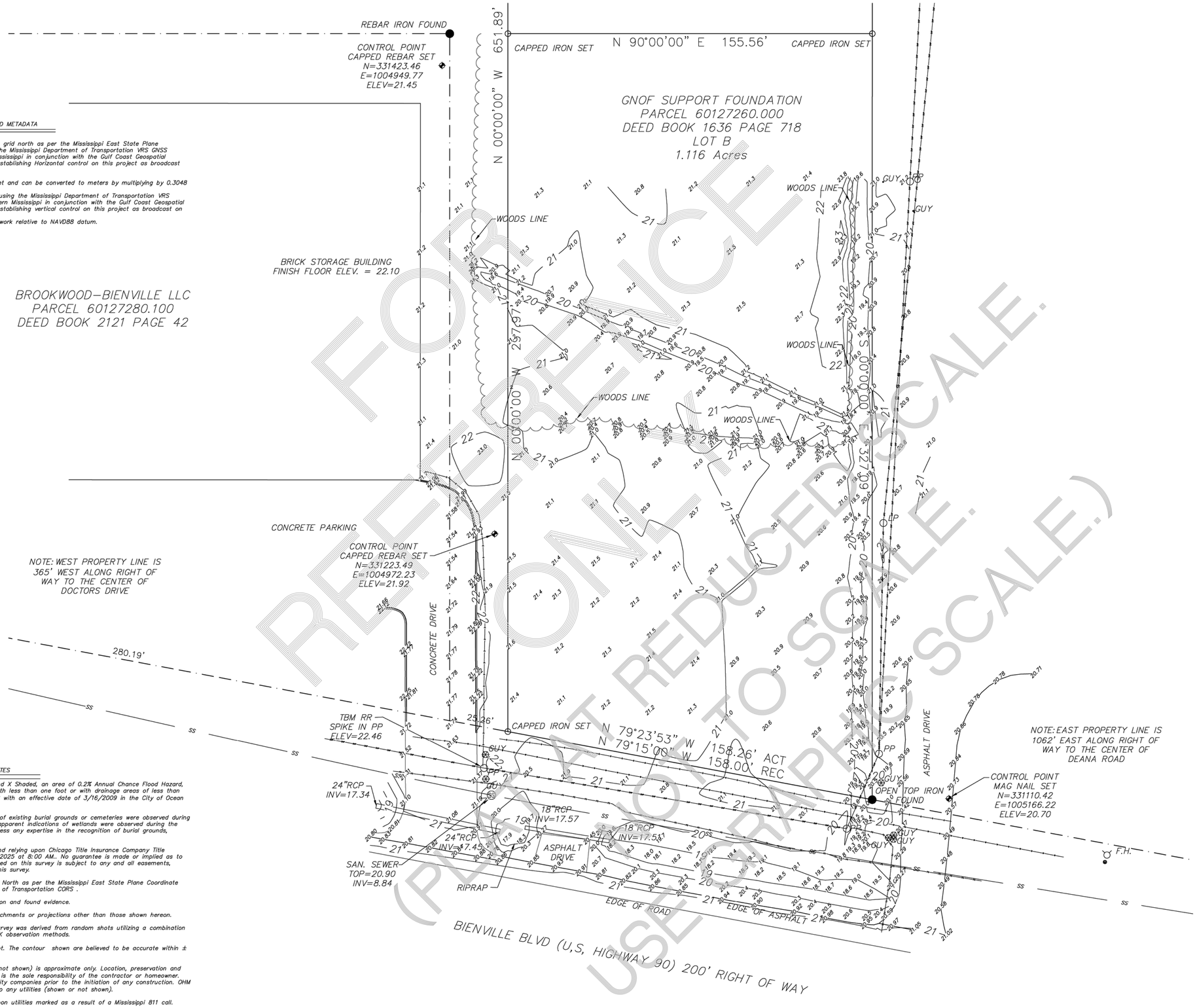
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Original sheet size: 24"x 36"

REVISIONS:	

ALTA/NSPS LAND TITLE SURVEY:
Express Oil Change, L.L.C. and Fidelity National Title Insurance Company.
East of 3701 Bienville Blvd
Ocean Springs, Mississippi 39564

PROJECT:	2321250030	SCALE:	1" = 60'
BY:	MAB		
DATE:	FEBRUARY 4, 2026	FILE NO:	
SHEET:	1 OF 2		


REBAR IRON FOUND
CONTROL POINT
CAPPED REBAR SET
N=331423.46
E=1004949.77
ELEV=21.45
CAPPED IRON SET
N 90°00'00" E 155.56'
CAPPED IRON SET
N 00°00'00" W 651.89'
GNOF SUPPORT FOUNDATION
PARCEL 60127260.000
DEED BOOK 1636 PAGE 718
LOT B
1.116 Acres
BRICK STORAGE BUILDING
FINISH FLOOR ELEV. = 22.10
BROOKWOOD-BIENVILLE LLC
PARCEL 60127280.100
DEED BOOK 2121 PAGE 42
WOODS LINE
GUY
CONCRETE PARKING
CONTROL POINT
CAPPED REBAR SET
N=331223.49
E=1004972.23
ELEV=21.92
NOTE: WEST PROPERTY LINE IS
365' WEST ALONG RIGHT OF
WAY TO THE CENTER OF
DOCTORS DRIVE
CONCRETE DRIVE
280.19'
TBM RR
SPIKE IN PP
ELEV=22.46
CAPPED IRON SET
N 79°23'53" W
N 79°15'00" W 158.26' ACT
158.00' REC
25.26'
24"RCP
INV=17.34
24"RCP
INV=17.45
18"RCP
INV=17.57
18"RCP
INV=17.51
SAN. SEWER
TOP=20.90
INV=8.84
RIPRAP
ASPHALT
DRIVE
EDGE OF ROAD
EDGE OF ASPHALT
ASPHALT DRIVE
OPEN TOP IRON
FOUND
CONTROL POINT
MAG NAIL SET
N=331110.42
E=1005166.22
ELEV=20.70
NOTE: EAST PROPERTY LINE IS
1062' EAST ALONG RIGHT OF
WAY TO THE CENTER OF
DEANA ROAD
F.H.
BIENVILLE BLVD (U.S. HIGHWAY 90) 200' RIGHT OF WAY
S 00°00'00" E 1327.09'
SS
SS
SS

GENERAL NOTES:

1. THE TERM MUNICIPALITY REFERS TO THE CITY OF OCEAN SPRINGS.
2. THE USE OF THE TERM "INSTALL" WITHIN THIS SET OF PLANS SHALL BE UNDERSTOOD TO PROVIDE ALL NECESSARY MATERIALS, TOOLS, EQUIPMENT, LABOR, AND INCIDENTALS FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS COMPLETE AND IN-PLACE, PER APPLICABLE STANDARDS & SPECIFICATIONS.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AND SHALL BE IN ACCORDANCE WITH THE MUNICIPAL STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION. ALL WORK NOT COVERED IN THE CONTRACT DOCUMENTS AND MUNICIPAL STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION SHALL BE GOVERNED BY THE MOST RECENT ADDITION OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. IN THE EVENT OF A DISCREPANCY OR CONTRADICTION BETWEEN THESE PROJECT NOTES AND NOTES FROM THE MUNICIPALITY, THE NOTES FROM THE MUNICIPALITY SHALL TAKE PRECEDENCE.
5. EXISTING UTILITY LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. EXISTING UTILITIES SHOWN HAVE BEEN BASED ON AVAILABLE RECORD DRAWINGS AND SURFACE APPURTENANCE FIELD TIES ONLY. SOME UTILITY LINES AND SURFACE LOCATIONS MAY NOT BE SHOWN. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATIONS AND PROTECTION OF EXISTING UTILITIES WHETHER SHOWN OR NOT. THE CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES WHETHER SHOWN OR NOT, DAMAGED BY THE CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATIONS OF EXISTING UTILITIES SHALL NOT BE BASIS FOR ADDITIONAL COMPENSATIONS TO THE CONTRACTOR.
6. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION AND PRIMARY CONTROL. ANY SUCH POINTS WHICH THE CONTRACTOR BELIEVES WILL BE DESTROYED SHALL HAVE OFFSET POINTS ESTABLISHED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MONUMENTATION DESTROYED BY THE CONTRACTOR SHALL BE REESTABLISHED AT CONTRACTORS EXPENSE BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO: A.) PREVENT ANY DAMAGES TO PRIVATE PROPERTY AND PROPERTY OWNER'S POLES, FENCES, SHRUBS, ETC. B.) PROTECT ALL UNDERGROUND UTILITIES. C.) NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH MISSISSIPPI LAW. D.) FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES IN THE VICINITY OF CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNIDENTIFIED POTENTIAL CONFLICTS THAT MAY EXIST BETWEEN THE EXISTING UTILITIES AND CONSTRUCTION PLANS.
8. ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS, INCLUDING EXISTING PRIVATE AND PUBLIC LANDSCAPE IRRIGATION SYSTEMS, SHALL BE RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENT WERE IN PRIOR TO THE DAMAGES. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE ADJUSTMENT OF SPRINKLER HEADS TO FINAL GRADE AND RELOCATION IF NECESSARY.
9. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. THE PONDING OF WATER IN STREETS, DRIVES, TRENCHES, ETC, WILL NOT BE ALLOWED. THE CONTRACTOR SHALL MAINTAIN EXISTING DRIVEWAYS ACCESS AT ALL TIME.
10. AREAS OF THE SITE THAT WILL UNDERLIE FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES, FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS. ALL FILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH A MOISTURE CONTENT FROM -3% TO +1% OF OPTIMUM OR PER GEOTECH RECOMMENDATION. FIELD DENSITY TESTS PER MUNICIPAL REQUIREMENTS.
11. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS GOVERNING EXCAVATION. THE CONTRACTOR SHALL PROVIDE DETAILED PLANS AND SPECIFICATION FOR TRENCH SAFETY SYSTEMS THAT COMPLY WITH APPLICABLE LAWS GOVERNING EXCAVATION. THESE PLANS SHALL BE SEALED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF TRENCH SAFETY SYSTEM, REGISTERED IN THE STATE OF MISSISSIPPI. THE CONTRACTOR SHALL SUBMIT COMPLETED TRENCH SAFETY PLANS TO THE MUNICIPALITY PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASPECTS OF WORK RELATED TO EXCAVATION. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OSHA, "CONSTRUCTION SAFETY AND HEALTH REGULATIONS". VOL. 29, SUBPART P. PG. 128-137, AND ANY AMENDMENTS THERETO."
12. WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE MUNICIPALITY.
13. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.
14. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE CONCRETE PAVEMENT.
15. CONTRACTOR SHALL COORDINATE THE PROTECTION OF EXISTING FRANCHISE UTILITIES AND APPURTENANCES INCLUDING EXISTING UTILITY POLES IN THE VICINITY OF CONSTRUCTION OPERATIONS WHETHER UTILITIES ARE SHOWN ON PLANS OR NOT. ANY DAMAGE INCURRED TO EXISTING FRANCHISE UTILITIES, APPURTENANCES, UTILITY POLES, LIGHT STANDARDS, ETC., BY CONSTRUCTION RELATED ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
16. THE CONTRACTOR SHALL LOCATE AND RECORD EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TEMPORARILY REMOVE AND CAP IRRIGATION SYSTEM AS NECESSARY FOR CONSTRUCTION AND SHALL REPLACE THE PORTION REMOVED WITH EQUIVALENT SYSTEMS. CONTRACTOR SHALL COORDINATE ANY IRRIGATION WORK WITH THE MUNICIPALITY AND PROPERTY OWNER'S REPRESENTATIVES.
17. THE CONTRACTOR MUST CEASE ALL CONSTRUCTION OPERATIONS IMMEDIATELY IF A SUSPECTED ARCHEOLOGICAL OBJECT/ARTIFACT IS UNCOVERED DURING CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY CONTACT THE TEXAS HISTORICAL COMMISSION AND THE MUNICIPALITY. PROJECT WORK WILL NOT COMMENCE UNTIL PROPER PERMITS ARE IN PLACE AND PROVIDED TO THE MUNICIPALITY.
18. ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL HANDICAPPED ACCESSIBILITY REQUIREMENTS INCLUDING SIGNAGE, TEXTURES, COLORING, MARKINGS, AND SLOPES OF ADA/TAS 2012 ACCESSIBLE ROUTES & RAMPS, AND PARKING SPACES.
20. ALL PIPE LENGTHS MEASURED FROM STATION TO STATION BASED ON THE CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
21. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARISE.
22. THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION (MDOT) MUST APPROVE ANY WORK TO BE DONE IN THE STATE HIGHWAY RIGHT-OF-WAY. AN APPLICATION AND APPROPRIATE PLANS MUST BE SUBMITTED DIRECTLY TO MDOT FOR REVIEW AND APPROVED BY THE MUNICIPALITY WHERE THE WORK WILL BE PERFORMED. THE MUNICIPALITY MAY BE RESPONSIBLE FOR THE SUBMISSION TO MDOT FOR APPROVAL.
23. THE CONTRACTOR SHALL RESTORE ALL AREAS, ONSITE AND OFFSITE, DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO: TRENCH BACKFILL, SIDE SLOPES, FENCES, CULVERT PIPES, DRAINAGE SWALES, STAGING AREAS, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS. UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE DRAWINGS, RESTORATION SHALL INCLUDE HYDROMULCHING ALL DISTURBED AREAS WITH A SLOPE OF LESS THAN 20% (1:5) AND SODDING AREAS WITH A SLOPE OF 20% (1:5) OR GREATER. ESTABLISHMENT OF GRASS THROUGH PROPER WATERING IS LEFT UP TO THE CONTRACT'S MEANS AND METHODS, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE/IRRIGATION DRAWINGS.
24. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS THROUGHOUT CONSTRUCTION TO RECORD BOTH THE EXACT LOCATION OF UTILITIES PRIOR TO CONCEALMENT AND ANY APPROVED FIELD ADJUSTMENTS. THESE RECORDS MUST INCLUDE MARK-UPS FOR AS-BUILT DRAWINGS AND BE SUBMITTED TO THE MUNICIPALITY INSPECTOR PRIOR TO SCHEDULING THE FINAL WALK-THROUGH INSPECTION. UPON PROJECT COMPLETION, "RED-LINE" DRAWINGS SHALL BE PROVIDED TO THE OWNER, WITH A COPY OF THE TRANSMITTAL LETTER SENT TO THE DESIGN PROFESSIONAL.
25. PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION, CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE. THE OWNER, ENGINEER, CONTRACTOR, OWNER'S REPRESENTATIVES, ENGINEER'S REPRESENTATIVE FROM AUTHORITIES HAVING JURISDICTION SHALL BE INVITED TO ATTEND THE MEETING.
26. ALL CONSTRUCTION MUST ADHERE TO THE TREE PRESERVATION REQUIREMENTS OF THE MUNICIPALITY.
27. THE CONTRACTOR, AND HIS AGENTS, AND SUB-CONTRACTOR, ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSIONAL CONTROL FURNISHED HEREIN. THE OWNER, ENGINEER AND THEIR AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL COORDINATES FOR ACCURACY AND CONFIRM THE LOCATIONS OF ALL UTILITIES TO BE CONSTRUCTED, BOTH HORIZONTAL AND VERTICALLY, DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED, IN WRITING, TO THE OWNER IMMEDIATELY FOR RECONCILIATION.
28. THE CONTRACTOR, OR AN APPROVED EQUAL, SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PREPARE, IMPLEMENT AND MAINTAIN THE SWPPP IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT TCEQ AND NPDES GENERAL PERMIT AS DESCRIBED IN THE FEDERAL REGISTER, PAGES 36489 THROUGH 36519.
29. ACCESS GATES SHALL MEET ALL REQUIREMENTS LISTED IN THE FIRE CODE ADOPTED BY THE MUNICIPALITY.
30. CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES MAY BE FOUND ON SUBSEQUENT SHEETS OF THE CONSTRUCTION DOCUMENT SET AND THAT SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWINGS ON WHICH THEY ARE PLACED, SUPPLEMENT THE NOTES LISTED HEREIN. ALL NOTES SHALL BE APPLICABLE TO ALL DRAWINGS, UNLESS OTHERWISE NOTED.
31. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION. CONFLICTS OR MISSING INFORMATION SHALL BE BROUGHT, IN WRITING, TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE'S.
32. PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION, CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE. THE OWNER, ENGINEER, CONTRACTOR, OWNER'S REPRESENTATIVE, ENGINEER'S REPRESENTATIVE AND REPRESENTATIVES FROM AUTHORITIES HAVING JURISDICTION SHALL BE INVITED TO ATTEND THE MEETING.
33. CONTRACTOR SHALL VERIFY THAT NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION AND HAVE COPIES AVAILABLE ON JOBSITE.
34. THE DESIGN PROFESSIONAL DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS/METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS. CONSTRUCTION MEANS/METHODS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
35. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CURRENT APPLICABLE LOCAL, STATE, AND FEDERAL AGENCIES' REGULATIONS, STANDARDS, AND SPECIFICATIONS.
36. CONTRACTOR SHALL PROVIDE THE MOST RECENT APPROVED AND PERMITTED CONSTRUCTION DOCUMENT SET TO ALL SUBCONTRACTORS. ALL SUBCONTRACTORS SHALL BE GIVEN THE ENTIRE SET OF DOCUMENTS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REVIEW THE ENTIRE PLAN SET INCLUDING THE MOST RECENT CONTRACT DOCUMENT ADDENDUMS, AMENDMENTS, RE-ISSUES, BULLETIN DRAWINGS, ETC. AND ENSURE THEY HAVE THE NECESSARY INFORMATION TO ACCURATELY SCOPE THE PROJECT FOR THE SUBCONTRACTORS' RESPECTIVE TRADE.
37. CONSTRUCTION SHALL CONFORM TO OR EXCEED CURRENT REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT AND OTHER CURRENT APPLICABLE STANDARDS AND GOVERNING AUTHORITIES. FIELD CONDITIONS THAT MAY RESULT IN NONCOMPLIANCE WITH ADA REGULATIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO DETERMINE RESOLUTION PRIOR TO PROCEEDING WITH WORK.
38. CONTRACTOR IS REQUIRED TO MEET CURRENT APPLICABLE FEDERAL, OSHA, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY, AND ASSUMES RESPONSIBILITY FOR SAFETY ON THE PROJECT.
39. CONTRACTOR SHALL NOT DO WORK BEYOND THE LIMIT OF DISTURBANCE AS DEFINED ON THE DRAWINGS AND AUTHORIZED BY THE RESPECTIVE AUTHORITIES. IN SOME DRAWINGS, THE LIMIT OF DISTURBANCE IS GRAPHICALLY SHOWN TO CLEARLY DESCRIBE WORK TO BE PERFORMED. CONTRACTOR SHALL UTILIZE ONLY THAT SPACE WHICH IS REQUIRED TO PERFORM THE WORK AS PERMITTED/APPROVED. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR UNAUTHORIZED WORK BEYOND THE LIMIT OF DISTURBANCE AND SHALL BE RESPONSIBLE FOR CORRECTING DISTURBED AREAS BEYOND THAT LIMIT AT NO ADDITIONAL COST TO THE OWNER. CORRECTIVE WORK SHALL BE TO THE SATISFACTION OF THE OWNER.
40. CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION AREAS AND ASSOCIATED ACTIVITY DURING LAND DISTURBING ACTIVITY, DEMOLITION, AND CONSTRUCTION.
41. CONTRACTOR TO PROVIDE REQUIRED CLEANING AND CONTROL MEASURES TO ENSURE STREETS AND SIDEWALKS ARE KEPT CLEAN FROM DIRT AND DEBRIS TO THE STANDARD ESTABLISHED BY PERMITTING AUTHORITIES.
42. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE OWNER HAS IDENTIFIED EXISTING WETLANDS, STREAMS, AND OTHER WATER BODIES, ESTABLISHED JURISDICTION, AND PERMITTED CONSTRUCTION IMPACTS PRIOR TO CONTRACTOR STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION.
43. CONTRACTOR SHALL TIE FIELD SURVEY POINTS TO THE SAME CONTROL POINTS AS THE EXISTING CONDITIONS SURVEY. CONTRACTOR TO MAINTAIN BENCHMARK UNTIL CERTIFICATE OF OCCUPANCY IS ISSUED.
44. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON FIELD SURVEYS AND THE AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION. UNUSUAL CONDITIONS AND DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
45. CONTRACTOR SHALL NOTIFY ["MISSISSIPPI811" (811)] AT LEAST [2] FULL BUSINESS DAYS PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATING SERVICES INDEPENDENT OF ["MISSISSIPPI811"]. REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. CONTRACTOR SHALL NOT COMMENCE WORK UNTIL UTILITY LINES HAVE BEEN MARKED. UTILITY MARKINGS ARE VALID FOR NO MORE THAN 28 DAYS.
46. SHOULD UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION, CONTRACTOR SHALL CONSULT THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
47. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY PROVIDER FOR REQUIRED DISCONNECTION, REMOVAL, AND/OR RELOCATION OF EXISTING POWER POLES, POWER LINES, TELEPHONE PEDESTALS, WATER METERS, GAS LINES, ETC. AS SHOWN ON THE DEMOLITION OR UTILITY SHEETS.
48. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ADJOINING PROPERTIES AND OTHER EXISTING FACILITIES THAT ARE SCHEDULED TO STAY OPEN SHALL REMAIN OPERATIONAL DURING LAND DISTURBING ACTIVITY, DEMOLITION, AND CONSTRUCTION. DEMOLITION OR UTILITY SHEET
49. CONTRACTOR SHALL COORDINATE STAGING AREA AND LOCATION OF CONSTRUCTION TRAILER WITH OWNER'S REPRESENTATIVE, IF NOT SHOWN ON PLANS.
50. CONTRACTOR SHALL PROVIDE INGRESS/EGRESS TO ALL EXISTING BUILDINGS, PARKING LOTS, AND PATHS OF PEDESTRIAN TRAVEL THROUGHOUT THE CONSTRUCTION PERIOD UNLESS OTHERWISE NOTED.
51. EXISTING CONDITIONS SLATED TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR AND/OR THEIR SUB-CONTRACTORS, SHALL BE REPLACED/RESTORED BY THE CONTRACTOR TO THE ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
52. CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
53. DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH AFFECTED WORK.
54. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.
55. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED, PROVIDED THAT WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING OR INSTALLATION. DIFFERENCES IN COST TO THE OWNER SHALL BE APPROVED THROUGH AN ESTABLISHED CHANGE ORDER PROCEDURE PRIOR TO ORDERING OR INSTALLATION.
56. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONDUITS AND SLEEVING FOR PROPOSED UTILITIES TO BE INSTALLED.

MISSISSIPPI ACCESSIBILITY STANDARDS/AMERICAN WITH DISABILITIES ACT REQUIREMENTS:

1. THE MAXIMUM ALLOWED CROSS SLOPE ON ANY PROPOSED SIDEWALK OR TRAIL IS 2%.
2. THE MAXIMUM ALLOWED PATH OF TRAVEL SLOPE IS 5%, UNLESS OTHERWISE NOTED ON THESE PLANS. ANY SLOPE GREATER THEN 5%, AND LESS THAN 8.33%, MUST HAVE HANDRAILS. NO SLOPE GREATER THAN 8.33% SHALL BE ALLOWED.
3. SLOPES BETWEEN 5% AND 8.25% ARE CONSIDERED RAMPS. NO RAMP CAN EXCEED 30' IN LENGTH AND NO RAMP CAN EXCEED A GRADE CHANGE OF MORE THAN 2'-6". LANDINGS ARE REQUIRED IF EITHER OF THESE ARE EXCEEDED.
4. LANDINGS MAY NOT EXCEED 2% SLOPE IN ANY DIRECTION.
5. RAILINGS, IF REQUIRED, ARE TO EXTEND A MINIMUM OF 1' INTO THE LANDING AREA.
6. CURB RAMPS ARE REQUIRED AT THE END AT ALL CROSSWALKS. ALL CURB RAMPS ARE TO HAVE A MAXIMUM OF 6" OF RISE OVER THE 6' LENGTH OF THE RAMP. THE MAXIMUM ALLOWED CROSS SLOPE IS 2%.
7. TRUNCATED DOMES ARE TO BE INSTALLED AT THE BOTTOM OF EACH RAMP. THE DOMES ARE TO EXTEND THE FULL WIDTH OF THE PROPOSED RAMP AND MUST BE OF A CONTRASTING COLOR TO THE RAMP PAVEMENT, SIMILAR COLORS WILL NOT BE ACCEPTED.
8. ANY WALKWAY, SIDEWALK OR TRAIL, LESS THAN 5' IN WIDTH MUST HAVE A 5'X5' PASSING ZONE EVERY 200', OR LESS.
9. A PAVED ACCESSIBLE PARKING SPACE MUST INCLUDE:
   - 9.1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY PAINTED CONSPICUOUSLY ON THE SURFACE IN A COLOR THAT CONTRASTS THE PAVEMENT;
   - 9.2. THE WORDS "NO PARKING" PAINTED ON ANY SURFACE AISLE ADJACENT TO THE PARKING SPACE. THE WORDS MUST BE PAINTED:
     - 9.2.1. IN ALL CAPITAL LETTERS
     - 9.2.2. WITH A LETTER HEIGHT OF AT LEAST 12 INCHES AND A STROKE WIDTH OF AT LEAST 2 INCHES; AND
     - 9.2.3. CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE; AND
     - 9.2.4. A SIGN IDENTIFYING THE CONSEQUENCES OF PARKING ILLEGALLY IN A PAVED ACCESSIBLE SPACE. THE SIGN MUST:
       - 9.2.4.1. AT A MINIMUM STATE "VIOLATORS SUBJECT TO FINE AND TOWING" IN A LETTER HEIGHT OF AT LEAST ONE INCH;
       - 9.2.4.2. BE MOUNTED ON A POLE, POST, WALL OR FREE STANDING BOARD;
       - 9.2.4.3. BE NO MORE THAT EIGHT INCHES BELOW A SIGN REQUIRED BY THE TEXAS ACCESSIBILITY STANDARDS, 502.6; AND
       - 9.2.4.4. BE INSTALLED SO THAT THE BOTTOM EDGE OF THE SIGN IS NO LOWER THAN 48 INCHES AND NO HIGHER THAN 80 INCHES ABOVE GROUND LEVEL.

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EXPRESS OIL CHANGE & TIRE ENGINEERS
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

THIS DOCUMENT IS RELEASED ON 6/26/2026 FOR THE PURPOSE OF OBTAINING PRELIMINARY BID NUMBERS, AND ARE NOT APPROVED FOR PERMITTING OR CONSTRUCTION.

UNDER THE AUTHORITY OF NORMAN RAY WATSON, JR. LICENSE #14548 IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

FINAL SIGNED AND SEALED PLANS SHALL BE ISSUED PRIOR TO THE RELEASE FOR CONSTRUCTION.

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-CS1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

SHEET

GENERAL NOTES

C0.01

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

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EXISTING CONDITIONS NOTES:

Only include these notes if McAdams Geomatics or other surveyor contracted by the Owner is NOT providing the signed/sealed Existing Conditions plan. If McAdams Geomatics or other licensed surveyor provides the signed/sealed Existing Conditions plan, they will include their standard notes on that sheet.

1. THE EXISTING CONDITIONS PLAN PREPARED TO MEET ENTITLEMENTS AND PERMITTING REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND USED TO INFORM PRELIMINARY SITE DESIGN. IT IS NOT A TOPOGRAPHIC OR BOUNDARY SURVEY PREPARED AND SEALED BY A LICENSED PROFESSIONAL, UNLESS OTHERWISE INDICATED.
2. EXISTING CONDITIONS WERE COMPILED FROM A SURVEY OF THE SITE PREPARED BY OHM ADVISORS, DATED 02/04/2026. ALTHOUGH EFFORT HAS BEEN MADE TO ACCURATELY LOCATE EXISTING CONDITIONS, ACTUAL FIELD CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL CONDITIONS AS THEY EXIST ON SITE.
3. UNDERGROUND UTILITIES MAY EXIST THAT ARE NOT SHOWN HEREIN. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE, BASED ON INFORMATION PROVIDED BY OTHERS OR BY FIELD LOCATION. ACTUAL LOCATION, SIZE, AND DEPTH OF LINE SHOULD BE VERIFIED WITH THE INDIVIDUAL UTILITY COMPANY PRIOR TO CONSTRUCTION.
4. THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X AS DEFINED BY FEMA F.I.R.M. MAP NUMBER 28059C0292G DATED 03/16/2009.

DEMOLITION NOTES:

1. CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THE DEMOLITION PLAN AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH CURRENT APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
2. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
3. CONTRACTOR SHALL OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES.
4. ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
5. THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES AND SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND APPROPRIATE UTILITY COMPANIES PRIOR TO WORK.
6. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION FENCE PRIOR TO STARTING DEMOLITION WORK. SEE EROSION CONTROL NOTES AND PLANS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL TAKE MEASURES TO AVOID CONFLICTS WITH EXISTING UTILITIES TO REMAIN. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR TO COORDINATE UTILITY CUT OFF TO EXISTING STRUCTURES WITH APPROPRIATE UTILITY COMPANY.
   A. CONTRACTOR SHALL COORDINATE REMOVAL AND RELOCATIONS OF UTILITY APPURTENANCES AS DETERMINED NECESSARY THROUGH THEIR COORDINATION WITH UTILITY PROVIDERS. UTILITY APPURTENANCES TO BE REMOVED MAY INCLUDE BUT ARE NOT LIMITED TO HYDRANTS, FIRE DEPARTMENT CONNECTIONS, VALVES/VALVE BOXES, STORM DRAIN AND/OR SANITARY SEWER CLEANOUTS, AND STORM DRAIN INLETS. ALL UTILITIES AND ASSOCIATED APPURTENANCES SCHEDULED TO BE SALVAGED SHALL BE RETURNED TO THE APPROPRIATE UTILITY AGENCY. ANY CREDIT/REIMBURSEMENT ASSOCIATED WITH RETURNING SAID APPURTENANCES SHALL BE REMITTED TO THE OWNER.
   B. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELECOMMUNICATIONS AS NOTED ON PLANS.
   C. CONTRACTOR SHALL CUT AND PLUG OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR MAIN, AS REQUIRED, OR AS OTHERWISE NOTED. ALL SERVICES MAY NOT BE SHOWN ON THE PLAN. CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT, OR PLUGGED.
   D. WATER OR SEWER ABANDONMENT OR RELOCATION MAY BE REQUIRED AT THE MAIN LINE.
9. EXISTING WATER METERS AND SANITARY SEWER LATERALS SLATED FOR REMOVAL ARE TO BE REMOVED BY CONTRACTOR AND RETURNED TO THE APPROPRIATE ENTITY AS APPLICABLE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF CURB BOXES, VALVE BOXES, ETC.
11. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES TO REMAIN IN PLACE.
12. CONTRACTOR TO DEMOLISH AND DISPOSE OF EXISTING BUILDINGS, INCLUDING FOUNDATIONS AND SITE APPURTENANCES NOT LIMITED TO CURBS, SIDEWALKS, FENCES, STAIRS, WALLS, CONDUITS, LIGHT POLE BASES, DEBRIS, AND RUBBISH AS NOTED AND SHOWN ON THE DEMOLITION PLAN AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE. DEMOLISHED ITEMS SHALL BE DISPOSED OF OFF SITE AT AN APPROVED LANDFILL AND IN A LAWFUL MANNER.
13. CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF TREES MARKED TO BE REMOVED. TREES MAY BE EITHER INDIVIDUALLY MARKED OR WITHIN A DESIGNATED REMOVAL AREA. DEMOLITION OF TREES INCLUDES REMOVAL AND DISPOSAL OF ENTIRE TREE INCLUDING STUMP.
14. MATERIALS, FURNISHINGS, UTILITIES AND PAVEMENT THAT ARE NOT SCHEDULED TO BE DEMOLISHED AND ARE DAMAGED BY THE CONTRACTOR AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. EXISTING CONCRETE SURFACES TO BE REMOVED OR DEMOLISHED SHALL BE SAWCUT AT NEAREST JOINTS, PROVIDING A CLEAN EDGE WHEN RESTORED. SAWCUT EXISTING PAVEMENT AT THE RIGHT OF WAY UNLESS OTHERWISE SHOWN.
16. ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT. MILL 2.0 FEET AT 1.5 INCHES DEEP MINIMUM TO PROVIDE A LONGITUDINAL LAP JOINT FOR FINAL SURFACE LAYER. NO MILLING SHALL BE LEFT FOR A PERIOD OF TIME GREATER THAN 48 HOURS BEFORE A STREET IS TO BE RE-PAVED/RESURFACED.
17. IN ACCORDANCE WITH 40 CODE OF FEDERAL REGULATIONS (CFR), PART 61, SUBPART M, A THOROUGH INSPECTION SHALL BE CONDUCTED FOR ASBESTOS-CONTAINING MATERIALS, PRIOR TO CONDUCTING A RENOVATION OR DEMOLITION ACTIVITY OF AN EXISTING FACILITY OR ANY FACILITY COMPONENT. THE ASBESTOS INSPECTION MUST BE CONDUCTED BY A MISSISSIPPI ACCREDITED ASBESTOS INSPECTOR. REGULATED AND/OR FRIABLE ASBESTOS-CONTAINING MATERIALS IDENTIFIED DURING THE SURVEY WHICH WILL BE DISTURBED, MUST BE PROPERLY REMOVED BY ACCREDITED INDIVIDUALS BEFORE BEGINNING THE RENOVATION OR DEMOLITION ACTIVITY.
18. NEAR SURFACE ROCK BELOW PROPOSED FOOTINGS DEEMED BY THE GEOTECHNICAL ENGINEER TO BE UNSUITABLE FOR LOAD BEARING SHALL BE REMOVED AS NECESSARY AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER. BLASTING SHALL NOT BE ALLOWED WITHOUT PRIOR CONSENT OF OWNER'S REPRESENTATIVE.
19. ON-SITE SEWAGE FACILITIES (SEPTIC SYSTEMS) THAT ARE SCHEDULED TO BE ABANDONED SHALL FOLLOW LOCAL JURISDICTION SEPTIC ABANDONMENT PROCEDURES.
20. STOCKPILE LOCATIONS OF ALL MATERIALS SLATED TO BE REUSED OR RE-PURPOSED SHALL BE IDENTIFIED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION.
21. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE IN THE REMOVAL, RELOCATION, AND/OR STORAGE OF OWNER OWNED SITE FURNISHINGS SCHEDULED TO BE SALVAGED.
22. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. NOT DESIGNATED TO BE REMOVED SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.

SITE PLAN NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST LOCAL AND STATE MUNICIPALITY AND/OR MDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL SIDEWALKS THAT CONNECT TO THE PUBLIC RIGHT-OF-WAY MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. EXISTING PEDESTRIAN ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE CURRENT PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS PLAN SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
5. SIGNS TO BE PERMITTED BY SIGN COMPANY. SIGNS SHOWN FOR GENERAL LOCATION ONLY. SEPARATE APPROVALS, AND PERMITS MAY BE REQUIRED BY MUNICIPALITY. SIGN PLACEMENT, MATERIALS, ELEVATIONS, ELECTRICAL, DESIGN AND PERMITTING BY OTHERS.
6. TRUNCATED DOMES ABUTTING PAVEMENT SHALL BE A CONTRASTING COLOR FROM THE ADJACENT PAVEMENT.

GRADING NOTES:

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
3. PRIOR TO BEGINNING GRADING ACTIVITIES, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY STORMWATER AND EROSION CONTROL DEPARTMENT, A REPRESENTATIVE OF THE ENGINEER, AND A REPRESENTATIVE OF THE OWNER.
4. AT CRITICAL LOCATIONS WHERE PROPOSED ELEMENTS TIE INTO EXISTING CONDITIONS, CONTRACTOR SHALL FIELD VERIFY THAT THE FIELD SURVEY MATCHES THE DESIGN SURVEY, REPORTING DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. TIE-IN LOCATIONS TO FIELD VERIFY ARE INDICATED ON THE PLANS AND MAY INCLUDE BUT ARE NOT LIMITED TO UTILITY CONNECTIONS, PAVEMENT, WALLS, OR FOUNDATIONS.
5. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS. ANY DEVIATION FROM THE GRADING PLAN THAT WAS NOT APPROVED BY OWNER'S REPRESENTATIVE THROUGH RFI'S, FIELD CHANGES, BULLETIN DRAWINGS, OR THROUGH OWNER REQUESTED CHANGES, THAT CAUSES WATER TO DRAIN TOWARDS THE BUILDING SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN COST.
6. CONTRACTOR SHALL PROVIDE POSITIVE STORMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND NON-PERVIOUS PAVED AREAS.
7. CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS, VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
8. ALL GRADIENT ON SIDEWALKS ALONG THE ADA ROUTE SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20) AND A MAXIMUM CROSS SLOPE OF 2% (1:50). RAMP CONDITIONS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 8.33% (1:12) AND A MAXIMUM CROSS SLOPE OF 2% (1:50). ON CURVED SIDEWALKS AND RAMPS, MAXIMUM LONGITUDINAL SLOPE SHALL BE MEASURED USING THE INSIDE/MOST STRINGENT PART OF THE CURVE AND MAXIMUM LONGITUDINAL RUNS ON RAMPS SHALL BE MEASURED USING THE OUTSIDE PART OF THE CURVE. MAXIMUM SLOPE IN ANY DIRECTION ON AN ADA PARKING STALL OR ACCESS AISLE SHALL BE 2% (1:50). CONTRACTOR SHALL REVIEW AND VERIFY THE GRADIENT IN THE FIELD ALONG THE ADA ROUTES PRIOR TO PLACING CONCRETE OR BITUMINOUS PAVEMENT. CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY IF THERE IS A DISCREPANCY BETWEEN THE GRADIENT IN THE FIELD VERSUS THE DESIGN GRADIENT. COORDINATE ALL WORK WITH PAVING CONTRACTOR.
   A. 5'X5' LANDING WITH A MAXIMUM OF 2% SLOPE IN ANY DIRECTION AT ALL DOORS.
   B. ALL ADA CROSSWALK TO BE A MAXIMUM OF 5% SLOPE LONGITUDINAL AND 2% SLOPE CROSS SECTION
9. PROVIDE A MINIMUM OF [0.5%] CROSS SLOPE AND [2.00%] MAXIMUM CROSS SLOPE ON WALKWAYS, LANDINGS, AND TRAILS IN A MANNER THAT ENSURES POSITIVE DRAINAGE AND AVOIDS POOLING ON, OR ADJACENT TO, THESE SURFACES.
10. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, WRITTEN PERMISSION AND TEMPORARY CONSTRUCTION EASEMENT MUST BE OBTAINED IN WRITING FROM THE AFFECTED PROPERTY OWNERS.
11. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 4:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
12. ALL LANDSCAPE ISLANDS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
13. TRANSFORMER POLES SHALL BE PROTECTED SUCH THAT NO GRADING OPERATIONS SHALL BE PERFORMED WITHIN [25'] OF A TRANSMISSION POLE AND CLEARANCE REQUIREMENTS ARE MET.
14. CONTRACTOR TO FOLLOW DRAINAGE PATTERNS AND INSTALL SPILL CURB WHERE APPROPRIATE.

STORM DRAINAGE NOTES:

1. ALL STORM DRAINAGE PIPES SHOWN SHALL BE REINFORCED CONCRETE (RCP) (MINIMUM CLASS III) UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH THE GEOTECH TO VERIFY TYPE OF BEDDING REQUIRED BASED ON SOIL CONDITIONS. CONTRACTOR TO SELECT REQUIRED CLASS OF PIPE BASED ON DEPTH OF PIPE AND BEDDING PROVIDED PER THE AMERICAN CONCRETE PIPE ASSOCIATION GUIDELINES.
2. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
3. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
4. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED GASKET SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
5. THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD, USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
6. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
7. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE OR GEOTECH AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED FROM THE SITE AND REPLACED WITH SUITABLE MATERIAL.
8. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY PER GEOTECHNICAL REPORT.
9. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
10. ALL CONCRETE PIPE AND PRECAST STORM STRUCTURES SHALL MEET MDOT STANDARDS AND STAMPED ACCORDINGLY BY MANUFACTURER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL PIPE AND STRUCTURES FOR CRACKS OR BREAKS, PRIOR TO INSTALLATION. ANY DAMAGED ITEMS SHALL NOT BE INSTALLED.
12. GEOTEXTILE FABRIC OR APPROVED EQUIVALENT ARE REQUIRED AT ALL DISSIPATOR PADS.

UTILITY NOTES:

1. PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION OF WATER OR SEWER, THE CONTRACTOR SHALL SCHEDULE AND HOLD A PRECONSTRUCTION MEETING WITH THE CITY OF OCEAN SPRINGS, THE ENGINEER OR HIS/HER REPRESENTATIVE AND THE OWNER/OWNERS REPRESENTATIVE.
2. CONTRACTOR TO VERIFY ELECTRICAL REQUIREMENTS OF ABOVE GROUND HEATED ENCLOSURES, SITE LIGHTS, SIGNS THAT REQUIRE ELECTRICAL SERVICE WITH ELECTRICAL PLANS AND NOTIFY PROJECT ELECTRICAL ENGINEER OF MISSING INFORMATION.
3. CONTRACTOR TO CONFIRM LOCATION OF PROPOSED ELECTRICAL SERVICE, TRANSFORMER LOCATION, PAD CONSTRUCTION REQUIREMENTS AND CLEARANCES. CONTRACTOR TO ESTABLISH LEAD TIMES WITH POWER COMPANY PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO CONFIRM WITH OWNER THE CONSTRUCTION REQUIREMENTS OF GAS, TELEPHONE, COMMUNICATIONS WITH OWNER AND UTILITY PROVIDER NOT SHOWN ON PLANS PRIOR TO ANY CONSTRUCTION.
5. EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER AND OWNER IMMEDIATELY.
6. ALL SEWER MAINS SHALL BE PVC PIPE AS SHOWN ON THE PLANS. ALL PIPE MATERIAL SHALL MEET LOCAL AND STATE STANDARDS AND SPECIFICATIONS.
7. ALL UNDERGROUND UTILITIES INSTALLED SHALL BE ELECTRONICALLY LOCATABLE. CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE LOCAL AND STATE MUNICIPALITIES PUBLIC UTILITIES DEPARTMENT FOR DETAILS AND SPECIFICATIONS FOR MEETING THESE REQUIREMENTS.
8. CONTRACTOR TO CONFIRM LIGHT POLE BASE SIZE.
9. ALL FRANCHISE UTILITY SLEEVES SHALL BE SCHEDULE 40 PVC AND INSTALLED WITH 2' MINIMUM COVER. BOTH ENDS SHALL BE CAPPED AND MARKED.
10. CONTRACTOR TO VERIFY SIZE OF GREASE TRAP AND/OR OIL WATER SEPARATOR WITH ARCHITECTURAL PLANS.
11. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED AND A FLEXIBLE "RUBBER BOOT" INSTALLED TO CONNECT THE NEW PIPELINE TO THE MANHOLE. CONTRACTOR TO VERIFY MANHOLE LOCATION, DEPTH, CONDITION, INVERT AND SUITABILITY FOR REUSE WITH SANITARY SEWER UTILITY PROVIDER PRIOR TO ANY CONSTRUCTION.
12. VAULTS AND GREASE TRAPS INSTALLED IN TRAFFIC AREAS SHALL USE HEAVY-DUTY TRAFFIC BEARING VAULTS. ALL OFFSITE VALVES AND CLEANOUTS LOCATED IN THE PAVEMENT MUST HAVE A TRAFFIC-RATED COVER.
13. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
14. WHERE SANITARY SERVICES ARE SERVING A BUILDING INSTALLED ON A FLOOR WITH A FINISHED FLOOR ELEVATION BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE, SUCH FIXTURES SHALL BE PROTECTED BY A BACKWATER VALVE INSTALLED IN THE SERVICE LINE.
15. DOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
16. ELECTRIC, TELEPHONE, GAS, AND CABLE TV SERVICES ROUTING ARE NOT A PART OF THIS PLAN.
17. ON-SITE IRRIGATION SYSTEM SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL PROVIDE DETAILED PLANS TO ENGINEER OR OWNER'S REPRESENTATIVE.
18. SANITARY SEWER PVC PIPE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MUNICIPAL AND STATE REQUIREMENTS.
19. AFTER COMPLETION OF ALL SANITARY SEWER TESTING (I.E. MANDREL AND AIR) CONTRACTOR SHALL PERFORM A TELEVISION INSPECTION AND PROVIDE A VIDEOTAPE TO THE MUNICIPALITY. ALL MANHOLES SHALL BE VACUUM TESTED.
20. ONE JOINT OF 150-PSI PRESSURE RATED PIPE INSTALLED AND CENTERED UNDER ALL PROPOSED WATER PIPE CROSSINGS.
21. CONTRACTOR TO PLACE A 3/4" PLYWOOD FALSE BOTTOM IN ALL SANITARY SEWER MANHOLES BEFORE PAVING CONTRACTOR BEGINS WORK.
22. ANY CONNECTION TIE-IN TO AN EXISTING MANHOLE MUST BE CORED.
23. ALL CLEAN-OUTS TO BE PROVIDED PER MUNICIPAL REQUIREMENTS.

PAVING IMPROVEMENT NOTES:

1. THE SUB GRADE SHALL BE PROOF ROLLED AND OBSERVED BY THE CONSTRUCTION INSPECTOR PRIOR TO AND AFTER SUB-GRADE STABILIZATION.
2. INDIVIDUAL WATER AND SANITARY SEWER SERVICES AND WATER VALVES AND MANHOLES SHALL BE MARKED IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
3. THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DENSITY/MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY A REGISTERED TESTING FIRM. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE MUNICIPALITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY-TWO (72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
4. MANHOLE RIM ELEVATIONS, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. SHALL BE ADJUSTED TO FINISHED GRADE BY THE PAVING CONTRACTOR AT THE TIME OF PAVING.
5. THE PAVING CONTRACTOR SHALL INSTALL A BLUE REFLECTOR IN THE STREET OR FIRE LANE CENTERLINE AT THE LOCATION OF EACH FIRE HYDRANT.
6. THE CONTRACTOR SHALL PREPARE ALL TRAFFIC CONTROL PLANS AND SUBMIT TO THE MUNICIPALITY PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS FOR WORK WITHIN THE MUNICIPALITY. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE CURRENT EDITION OF THE M.U.T.C.D AND AS MODIFIED BY THE TXDOT SUPPLEMENT TO THE M.U.T.C.D. THE PLAN SHALL ADDRESS THE REQUIREMENTS FOR ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS, HOURS OF CONSTRUCTION, AND OTHER DEVICES AS NECESSARY FOR SAFE TRAFFIC CONTROL.

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EXPRESS OIL OCEAN SPRINGS, MS

CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

THIS DOCUMENT IS RELEASED ON 6/26/2026 FOR THE PURPOSE OF OBTAINING PRELIMINARY BID NUMBERS, AND ARE NOT APPROVED FOR PERMITTING OR CONSTRUCTION.

UNDER THE AUTHORITY OF NORMAN RAY WATSON, JR. LICENSE #14548 IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

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REVISIONS

NO.	DATE	DESCRIPTION
1		
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3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-CS1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

SHEET

PLAN NOTES

C0.02

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THE CITY OF OCEAN SPRINGS NOTES

GENERAL NOTES:

1. A PRE-CONSTRUCTION MEETING OF THE OWNER/DEVELOPER/CONTRACTOR AND OCEAN SPRINGS PUBLIC WORKS (OSPW) MUST BE HELD A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.

2. THE OCEAN SPRINGS PUBLIC WORKS DEPARTMENT MUST BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO ANY TIE-IN TO CITY UTILITIES AND A PUBLIC WORKS DEPARTMENT REPRESENTATIVE MUST BE PRESENT DURING THE TIE-IN. (228-875-3955)

3. THE OCEAN SPRINGS PUBLIC WORKS DEPARTMENT AND THE CITY ENGINEER MUST APPROVE ANY TIE-INS TO EXISTING CITY WATER LINES, SEWER LINES, SEWER STRUCTURES, STORM DRAIN LINES OR STORM DRAIN STRUCTURES. THE OWNER/DEVELOPER IS RESPONSIBLE FOR CONSTRUCTION OF THE TIE-INS.

4. THE OCEAN SPRINGS PUBLIC WORKS DEPARTMENT MUST APPROVE ANY ROAD CUTS OR BORES ACROSS OR PARALLEL TO ANY CITY ROADS OR STREETS REQUIRED TO CONNECT NEW UTILITIES TO EXISTING CITY UTILITIES. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING ROAD CUTS AND BORE PITS DURING CONSTRUCTION INCLUDING ALL NECESSARY TRAFFIC CONTROL, WARNING SIGNAGE, SAFETY EQUIPMENT AND MEASURES UNTIL FINAL REPAIRS OR CONSTRUCTION IS COMPLETE AND APPROVED BY THE OCEAN SPRINGS PUBLIC WORKS DEPARTMENT.

5. THE OWNER/DEVELOPER IS RESPONSIBLE FOR PREPARING, IMPLEMENTING AND MAINTAINING A TRAFFIC CONTROL PLAN WHICH CONFORMS TO THE CURRENT MUTCD.

6. THE OCEAN SPRINGS PUBLIC WORKS DEPARTMENT MUST APPROVE ANY REQUIRED ROAD CLOSURES AND THE DEPARTMENT MUST BE NOTIFIED A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO IMPLEMENTING ANY APPROVED ROAD CLOSURE. (228-875-3955).

7. AN MDOT PERMIT MUST BE OBTAINED FOR WORK ON MDOT RIGHT OF WAY AND A COPY OF THE PERMIT AND APPROVED PLAN MUST BE SUBMITTED TO OCEAN SPRINGS PUBLIC WORKS DEPARTMENT WITH THE CONSTRUCTION PLANS.

8. A 14 GAUGE LOCATE WIRE AND WARNING TAPE SHALL BE INSTALLED WITH ALL WATER MAINS AND WATER SERVICES AND ALL SEWER MAINS AND SEWER SERVICE LATERALS. THE LOCATE WIRE SHALL BE TAPED TO THE PIPE AT THREE (3) FOOT INTERVALS. THE LOCATE WIRE SHOULD BE CONTINUOUS BUT IF A SPLICE IS REQUIRED IT SHALL BE SOLDERED AND ENCASED IN A WATER PROOF ENCLOSURE SUCH AS A "GEL PACK". THE LOCATE WIRE SHALL EXTEND UP TO THE FINISHED GRADE OF VALVE BOXES AND SEWER LOCATE WIRE BOXES. LEAVE THREE (3) FEET OF WIRE COILED INSIDE THE VALVE BOX OR SEWER LOCATE WIRE BOX. THE LOCATE WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF AN OCEAN SPRINGS PUBLIC WORKS REPRESENTATIVE AT THE COMPLETION OF THE PROJECT. THE WARNING TAPE SHALL BE MARKED "WATERLINE BELOW" OR "SEWERLINE BELOW" AND INSTALLED 18" ABOVE THE RESPECTIVE PIPE.

9. ALL WATER TAPS, WATER METER, SEWER TAPS, SEWER SERVICES, CLEANOUTS AND FIRE HYDRANTS MUST BE LOCATED ON THE STREET SIDE OF THE RIGHT OF WAY LINE AND ALIGNED WITH SIDE LOT LINES WHERE POSSIBLE. THE OCEAN SPRINGS PUBLIC WORKS DEPARTMENT MUST APPROVE THE LOCATION OF FIRE HYDRANTS IF IT IS NOT POSSIBLE TO ALIGN THEM WITH SIDE LOT LINES. WATER TAPS, WATER METERS, SEWER TAPS, CLEANOUTS AND VALVE BOXES SHALL NOT BE PLACED IN DRIVEWAYS OR SIDEWALKS OR WITHIN 5 FEET OF A DRIVEWAY. ELECTRICAL TRANSFORMERS, CABLE TELEVISION, AND TELEPHONE PEDESTALS SHALL NOT BE PLACED WITHIN FIVE (5) FEET OF A SEWER SERVICE CONNECTION POINT.

10. THE SIZE, TYPE AND LOCATION OF ALL EXISTING AND PROPOSED WATER, SEWER AND STORM DRAIN LINES MUST BE SHOWN AND LABELED ON ALL APPLICABLE PLAN SHEETS.

11. THE OWNER/DEVELOPER IS RESPONSIBLE FOR CONSTRUCTION OF ALL WATER AND SEWER TAPS.

12. ALL MATERIALS AND EQUIPMENT REQUIRED FOR TIE-INS OR TAPS MUST BE FURNISHED BY THE OWNER/DEVELOPER OR THEIR CONTRACTOR AND MUST BE ON SITE PRIOR TO STARTING A TIE-IN OR TAP.

13. ANY NECESSARY INTERRUPTIONS OF WATER OR SEWER SERVICE MUST BE APPROVED BY OCEAN SPRINGS PUBLIC WORKS AND MUST BE PERFORMED ON TUESDAY OR WEDNESDAY UNLESS OTHERWISE APPROVED BY OSPW.

14. ALL TAP FEES AND INSPECTION FEES MUST BE PAID IN FULL PRIOR TO ANY WORK BEING PERFORMED ON WATER OR SEWER PROJECTS.

15. THE OWNER/DEVELOPER MUST PROVIDE 24 HOUR ACCESSIBLE PHONE NUMBERS FOR THE OWNER, DEVELOPER AND CONTRACTOR.

16. NEW WATER AND SEWER MAINS THAT CROSS UNDER DRIVEWAYS OR STREETS MUST BE DUCTILE IRON WITH A 10 FOOT WIDE KEYED DRIVEWAY PANEL CENTERED OVER THE PIPE OR THE MAIN MUST BE CASED. CASINGS SHALL BE 0.25 INCH WALL COATED STEEL PIPE AND SHALL INCLUDE SPACERS AND END SEALS.

17. IF A PROBLEM OCCURS WITH THE WATER OR SEWER CONNECTION WHILE THE DEVELOPMENT IS UNDER CONSTRUCTION THE PROBLEM MUST BE REPAIRED WITHIN TWO (2) DAYS OR THE BUILDING DEPARTMENT WILL BE NOTIFIED TO ISSUE A STOP WORK ORDER.

WATER SYSTEM REQUIREMENTS:

18. THE OWNER/DEVELOPER SHALL FURNISH AND INSTALL ALL WATER METER BOXES. THE WATER METER BOXES SHALL BE MADE OF PLASTIC COMPOSITE MATERIAL AND INSTALLED FLUSH TO THE FINISHED GRADE OF THE SITE.

19. ALL WATER METERS TO BE INSTALLED ON PUBLIC RIGHT OF WAY SHALL BE PURCHASED FROM THE CITY OF OCEAN SPRINGS.

20. ALL WATER MAINS SHALL BE A MINIMUM OF 6" DIAMETER, PVC, AWWA C900, CLASS 150 PIPE.

21. NO 90 DEGREE FITTINGS SHALL BE USED ON WATER MAINS. ALL 90 DEGREE BENDS WILL BE MADE WITH 2- 45 DEGREE FITTINGS.

22. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH CITY REQUIREMENTS.

23. ALL WATER USED FOR CHLORINATION AND FLUSHING OF WATER LINES SHALL BE METERED AND PAID FOR BY THE OWNER/DEVELOPER.

24. CURB STOPS SHALL BE 3/4" X 1" X 5/8" SWIVEL TYPE, SEE ATTACHED DETAIL, FOR STANDARD WATER SERVICE.

25. ALL FIRE HYDRANTS SHALL BE PAINTED RED PER OCEAN SPRINGS FIRE DEPARTMENT.

26. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION OF ANY REQUIRED METER VAULT. THE METER VAULT SHALL BE CONSTRUCTED ON CITY RIGHT OF WAY AND PER THE ATTACHED STANDARD DETAIL. THE VAULT SHALL HAVE AN ALUMINUM, LOCKABLE HATCH WITH MINIMUM DIMENSION OF 36" X 36" AND SHALL BE CAST INTO A REMOVABLE REINFORCED CONCRETE TOP.

27. MASTER METERS MUST BE PURCHASED FROM THE CITY OF OCEAN SPRINGS AND PAID FOR IN ADVANCE OF THE METER BEING ORDERED. (MASTER METERS USUALLY TAKE 5 TO 6 WEEKS FROM ORDER TO DELIVERY).

28. THE SIZE OF WATER METERS AND BACK FLOW PREVENTERS SHALL BE SHOWN ON THE PLANS.

29. NO IRRIGATION METERS SHALL BE INSTALLED IN METER VAULTS.

30. BACK FLOW PREVENTERS SHALL BE INSTALLED ON CITY RIGHT OF WAY AT A LOCATION APPROVED BY OCEAN SPRINGS PUBLIC WORKS.

31. THE OWNER/DEVELOPER SHALL PROVIDE COPIES OF THE WATER BACTERIAL TEST RESULTS TO OCEAN SPRINGS PUBLIC WORKS.

32. EXISTING WATER MAINS UNDER NEW DRIVEWAYS SHALL BE REPLACED WITH DUCTILE IRON PIPE AT THE DIRECTION OF OCEAN SPRINGS PUBLIC WORKS. A SIX (6) FOOT WIDE SECTION OF THE DRIVEWAY CENTERED ON THE WATER MAIN WITH KEYWAYS OR EXPANSION JOINTS ON EACH SIDE SHALL BE PROVIDED.

33. "WM" SHALL BE STAMPED INTO THE CONCRETE CURB AT LOCATIONS ADJACENT TO WATER METERS.

34. "WV" SHALL BE STAMPED INTO THE CONCRETE CURB AT LOCATIONS WHERE WATER VALVES ARE ADJACENT TO PAVED AREAS.

SEWER SYSTEM REQUIREMENTS:

35. AN "S" SHALL BE STAMPED INTO THE CONCRETE CURB ADJACENT TO EACH SEWER SERVICE LOCATION.

36. A "MH" SHALL BE STAMPED INTO THE CONCRETE CURB WHERE SEWER MANHOLES ARE ADJACENT TO PAVED AREAS.

37. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING MECHANICAL PLUGS IN NEW SEWER LINES AT ALL TIE-IN MANHOLES. THE PLUGS SHALL NOT BE REMOVED WITHOUT APPROVAL OF OCEAN SPRINGS PUBLIC WORKS. SEWER PLUG MUST BE ON SITE PRIOR TO START OF TIE-IN CONSTRUCTION.

38. THE OWNER/DEVELOPER IS RESPONSIBLE FOR CONSTRUCTION OF MANHOLE TIE-INS AND INVERTS.

39. TIE-INS TO EXISTING MANHOLES SHALL BE MADE BY CORE DRILLING THE MANHOLE WITH THE APPROPRIATE SIZED HOLE FOR THE PROPOSED PIPE. THE MANHOLE PENETRATIONS SHALL BE SEALED INSIDE AND OUTSIDE.

40. AN OCEAN SPRINGS PUBLIC WORKS REPRESENTATIVE MUST BE PRESENT WHEN A MANHOLE IS BEING INSTALLED IN CITY RIGHT OF WAY.

41. A MINIMUM OF 12" OF BASE MATERIAL (57 STONE OR #4 LIMESTONE) MUST BE INSTALLED UNDER ALL MANHOLES, LIFT STATIONS AND GREASE TRAPS.

42. SEWER PIPES SHALL EXTEND 4" TO 6" INSIDE THE MANHOLE.

43. ALL JOINTS IN THE MANHOLE SHALL BE GROUTED INSIDE AND OUTSIDE.

44. SEWER MANHOLE LIDS SHALL BE EAST JORDAN IRON WORKS MODEL V1600-3 WITH A 25½" OPENING PER ATTACHED DETAIL.

45. THE OWNER/DEVELOPER MUST PROVIDE A 25½" RAIN TUB FOR EACH MANHOLE PER ATTACHED DETAIL.

46. "DOGHOUSE" MANHOLES ARE NOT PERMITTED IN THE CITY OF OCEAN SPRINGS.

47. SEWER SERVICE STUB-OUT PIPES SHALL BE LEFT A MINIMUM OF THREE (3) FEET ABOVE FINISH GRADE UNTIL THE PERMANENT BUILDING TIE-IN IS MADE.

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EXPRESS OIL CHANGE
EXPRESS OIL CHANGE, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

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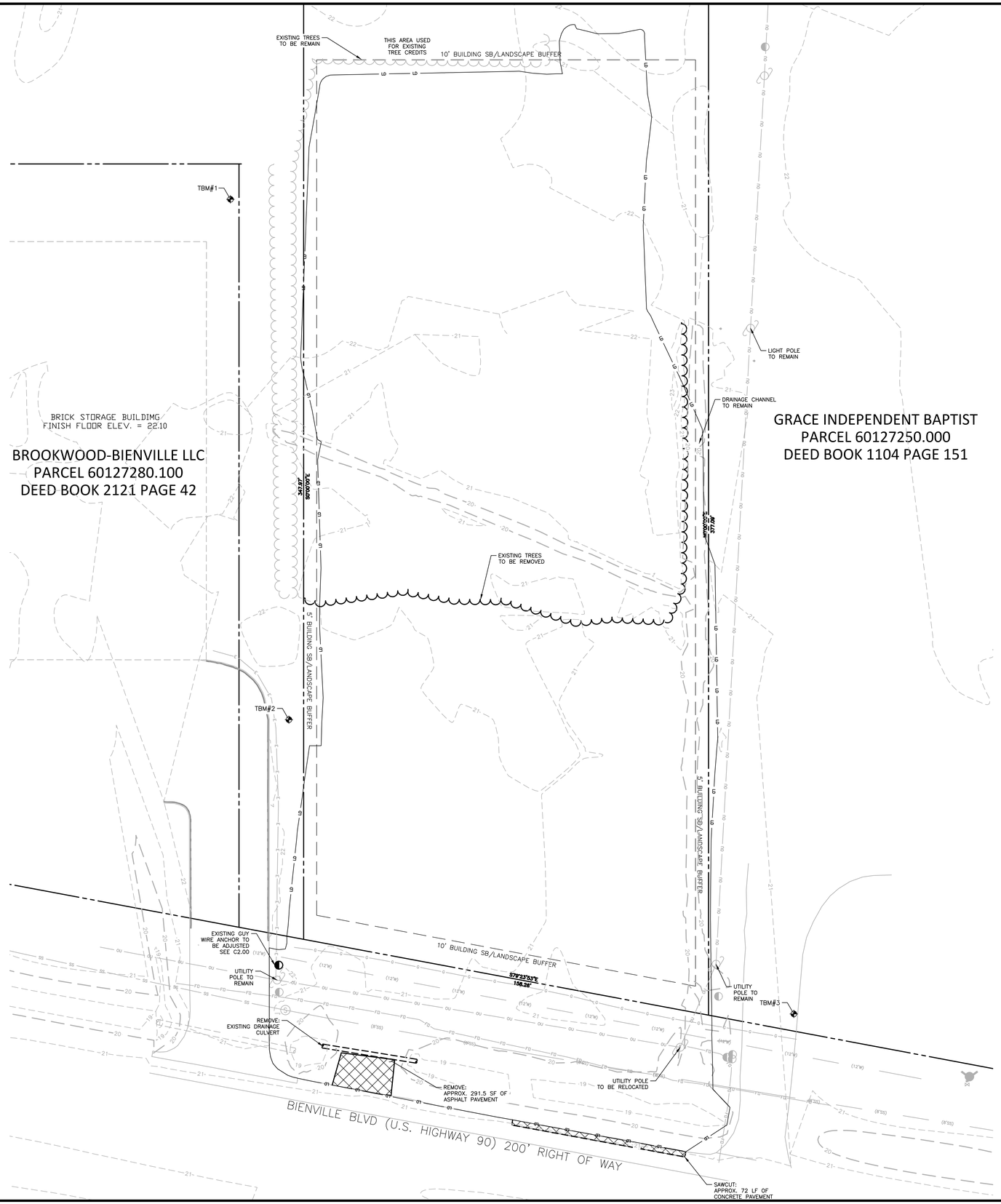
PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-CS1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

SHEET

CITY NOTES

C0.03



GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:

TBM 1: CONTROL POINT CAPPED REBAR SET
N: 331423.46 E: 1004949.77 Z: 21.45
TBM 2: CONTROL POINT CAPPED REBAR SET
N: 331223.49 E: 1004972.23 Z: 21.92
TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF OCEAN SPRINGS ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

EXISTING UTILITIES LEGEND

- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING IRRIGATION WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY CLEAN OUT
- EXISTING STORM DRAIN MANHOLE
- EXISTING LIGHT POLE
- EXISTING A/C UNIT
- EXISTING ELECTRICAL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRIC PULL BOX
- EXISTING TELECOM BOX
- EXISTING GAS METER
- EXISTING WATER LINE
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELECOM
- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING GAS LINE

DEMOLITION LEGEND

- TREE OR OTHER VEGETATION TO BE REMOVED
- UNDERGROUND UTILITY TO BE REMOVED
- AREA TO BE REMOVED (SIDEWALK, CURB AND GUTTER, STRUCTURES, ASPHALT, CONCRETE PAVING, ETC.)

NOTE: SEE PLAN FOR DETAILED DEMOLITION PROCEDURES, SEQUENCING AND SPECIFICATIONS.

SITE LEGEND

- EXISTING FLAG POLE
- EXISTING BOLLARD
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTURBANCE

SITE DATA TABLE	
PHYSICAL ADDRESS	EAST OF 3701 BIENVILLE BLVD, OCEAN SPRINGS, MISSISSIPPI 39564
GROSS SITE AREA	4.96 AC
NET SITE AREA	4.96 AC
ZONING	REGIONAL COMMERCIAL (CH)
CURRENT USE	VACANT/ UNDEVELOPED
PROPOSED USE	AUTOMOTIVE REPAIR AND MAINTANCE

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CONSTRUCTION DRAWINGS
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3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-DM1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	6/26/2026

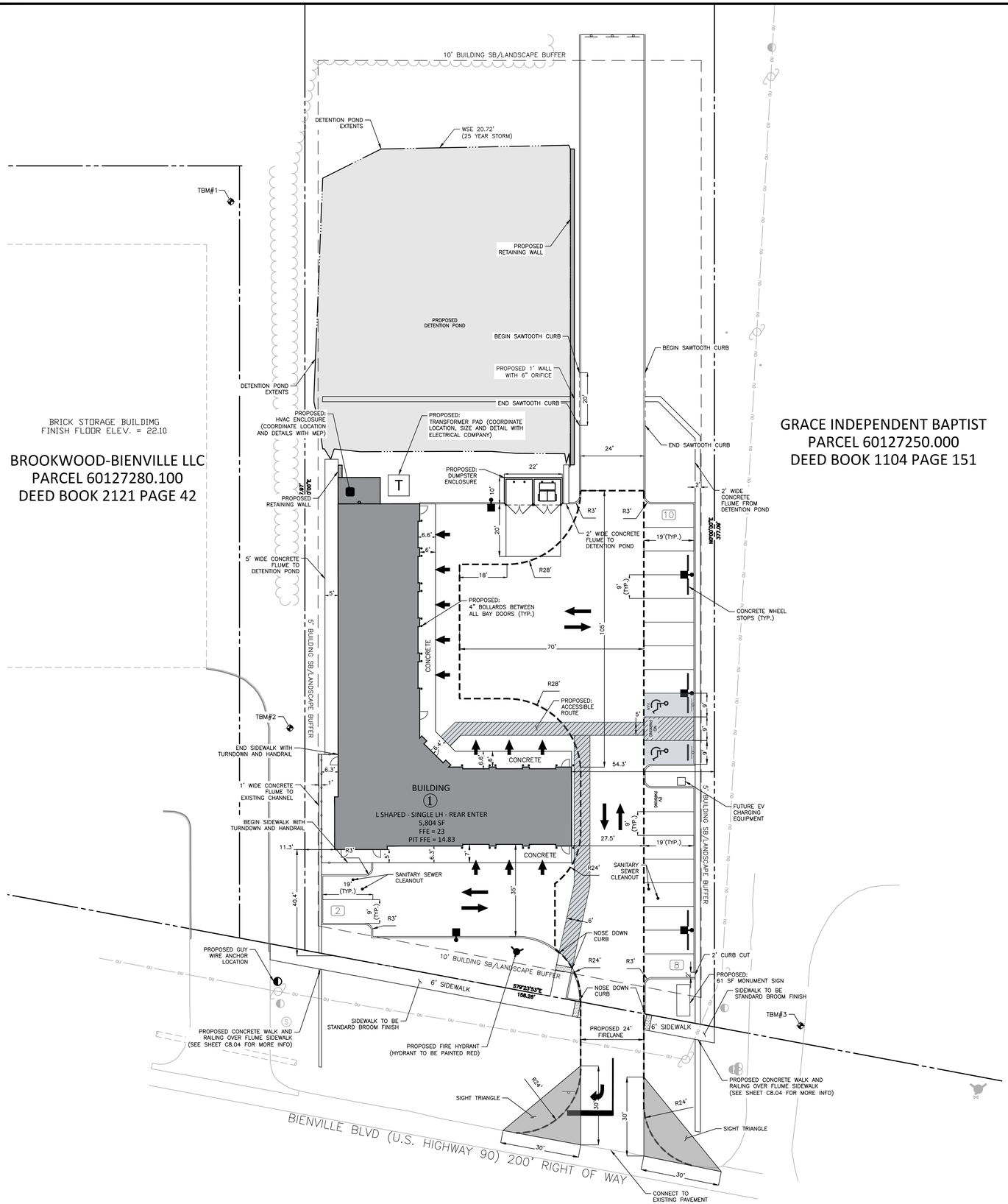
SHEET

EXISTING CONDITIONS & DEMOLITION PLAN

C1.00

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

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SITE DATA TABLE		
PHYSICAL ADDRESS		EAST OF 3701 BIENVILLE BLVD, OCEAN SPRINGS, MISSISSIPPI 39564
SITE AREA		4.96 AC
ZONING		REGIONAL COMMERCIAL (CH)
OVERLAY DISTRICT		CENTRAL BUSINESS DISTRICT (CBD)
CURRENT USE		VACANT/ UNDEVELOPED
PROPOSED USE		AUTOMOTIVE REPAIR AND MAINTANCE
FRONT BUILDING SETBACK		10'
SIDE BUILDING SETBACK		5'
REAR BUILDING SETBACK		10'
LOT COVERAGE DATA		
DISTURBED AREA		1.39 AC
IMPERVIOUS AREA	0.73 AC	14.73%
PERVIOUSE AREA	4.23 AC	85.27%
PARKING SUMMARY		
REQUIRED PARKING	3 SPACES + 2 PER SERVICE BAY	19 STALLS
REQUIRED ACCESSIBLE STALLS		1 STALLS
STANDARD STALLS PROVIDED		18 STALLS
ACCESSIBLE STALLS PROVIDED		2 STALLS
TOTAL STALLS PROVIDED		20 STALLS
BUILDING DATA		
BUILDING FOOTPRINT AREA		5,804 SF
NUMBER OF BUILDING STORIES		1
TOTAL BUILDING SQUARE FOOTAGE		5,804 SF
NUMBER OF SERVICE BAYS		8

GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:

TBM 1: CONTROL POINT CAPPED REBAR SET
N: 331423.46 E: 1004949.77 Z: 21.45
TBM 2: CONTROL POINT CAPPED REBAR SET
N: 331223.49 E: 1004972.23 Z: 21.92
TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF OCEAN SPRINGS ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

EXISTING SITE LEGEND

- SITE BENCHMARK
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY CLEAN OUT
- EXISTING STORM DRAIN MANHOLE
- EXISTING POWER POLE
- EXISTING GUY WIRE ANCHOR

SITE LEGEND

- PROPERTY LINE
- LANDSCAPE BUFFER
- FIRELANE
- CURB
- HANDRAIL
- DETENTION POND EXTENTS
- STOP BAR
- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- FIRE HYDRANT

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BIRMINGHAM, AL 35244
PHONE: 501. 840. 0001

EXPRESS OIL
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-S1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	6/26/2026

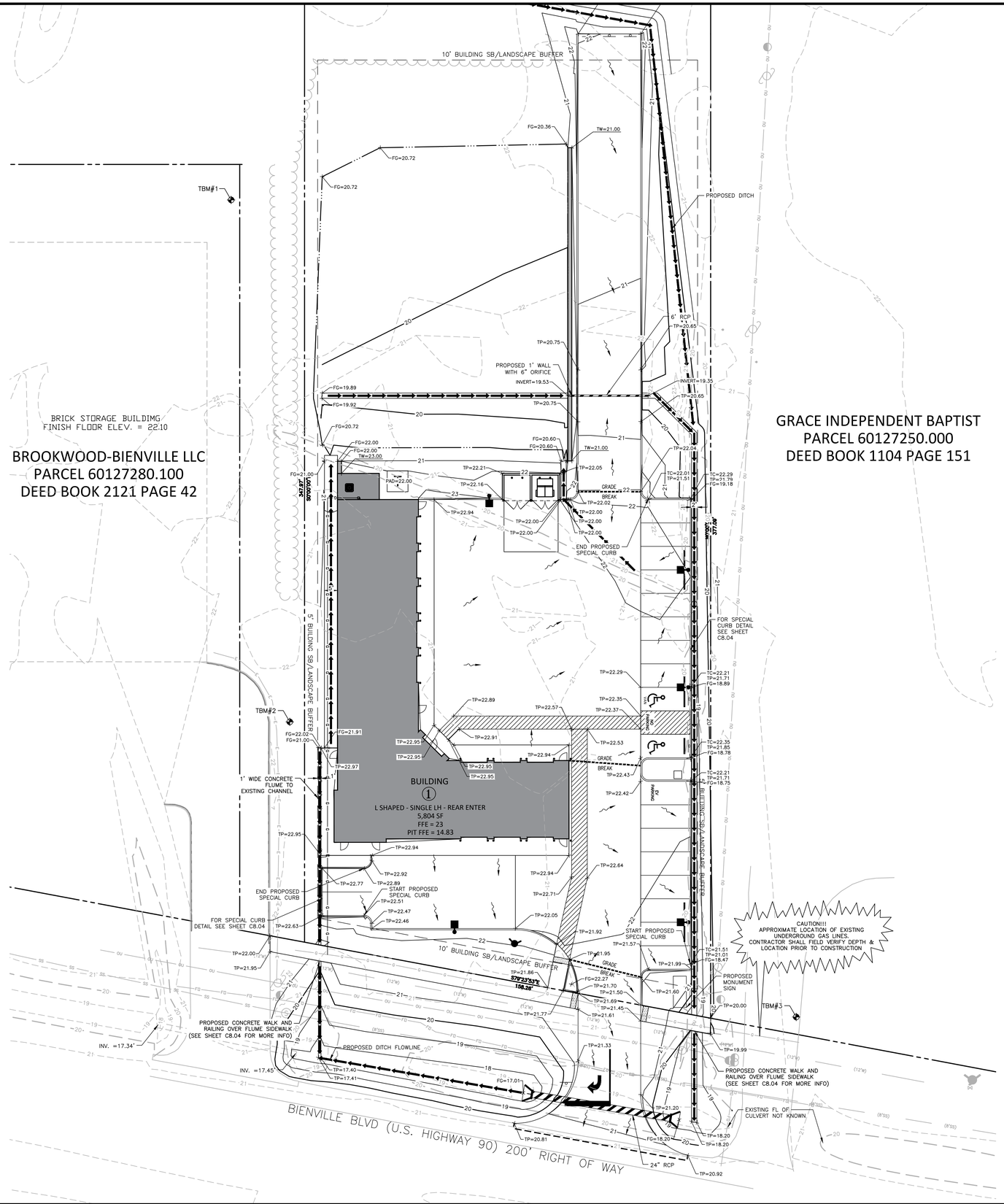
SHEET

ENGINEERING SITE PLAN

C2.00

PRELIMINARY - NOT RELEASED FOR CONSTRUCTION

Z:\Dbrive\Projects\EXO\EXO25010\04-Production\Engineering\Current Drawings\Sheets\EXO25010-S1.dwg, 6/26/2026 4:04:10 PM, Kieton Zachary



GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:

TBM 1: CONTROL POINT CAPPED REBAR SET
N: 331423.46 E: 1004949.77 Z: 21.45
TBM 2: CONTROL POINT CAPPED REBAR SET
N: 331223.49 E: 1004972.23 Z: 21.92
TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

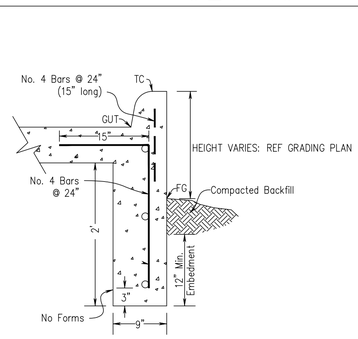
ROOF DRAINS TO DISCHARGE ON PARKING LOT

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

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GRADING LEGEND

- EXISTING STORM MH
- GRATE INLET
- HEADWALL
- DRAINAGE FLOW ARROW
- TC 250.50 / TP 250.00 — TOP & BOTTOM CURB ELEVATIONS
- TP250.60 — SPOT ELEVATION
- STORM DRAINAGE
- SUMP PUMP LINE
- SWALE LINE
- EXISTING STORM SERVICE LINE
- 250 — PROPOSED MAJOR CONTOUR
- 251 — PROPOSED MINOR CONTOUR
- 250 — EXISTING MAJOR CONTOUR
- 251 — EXISTING MINOR CONTOUR
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



SPECIAL CURB DETAIL
(6"–18" EXPOSED)
N.T.S.

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NO.	DATE	DESCRIPTION
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2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-G1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	6/26/2026

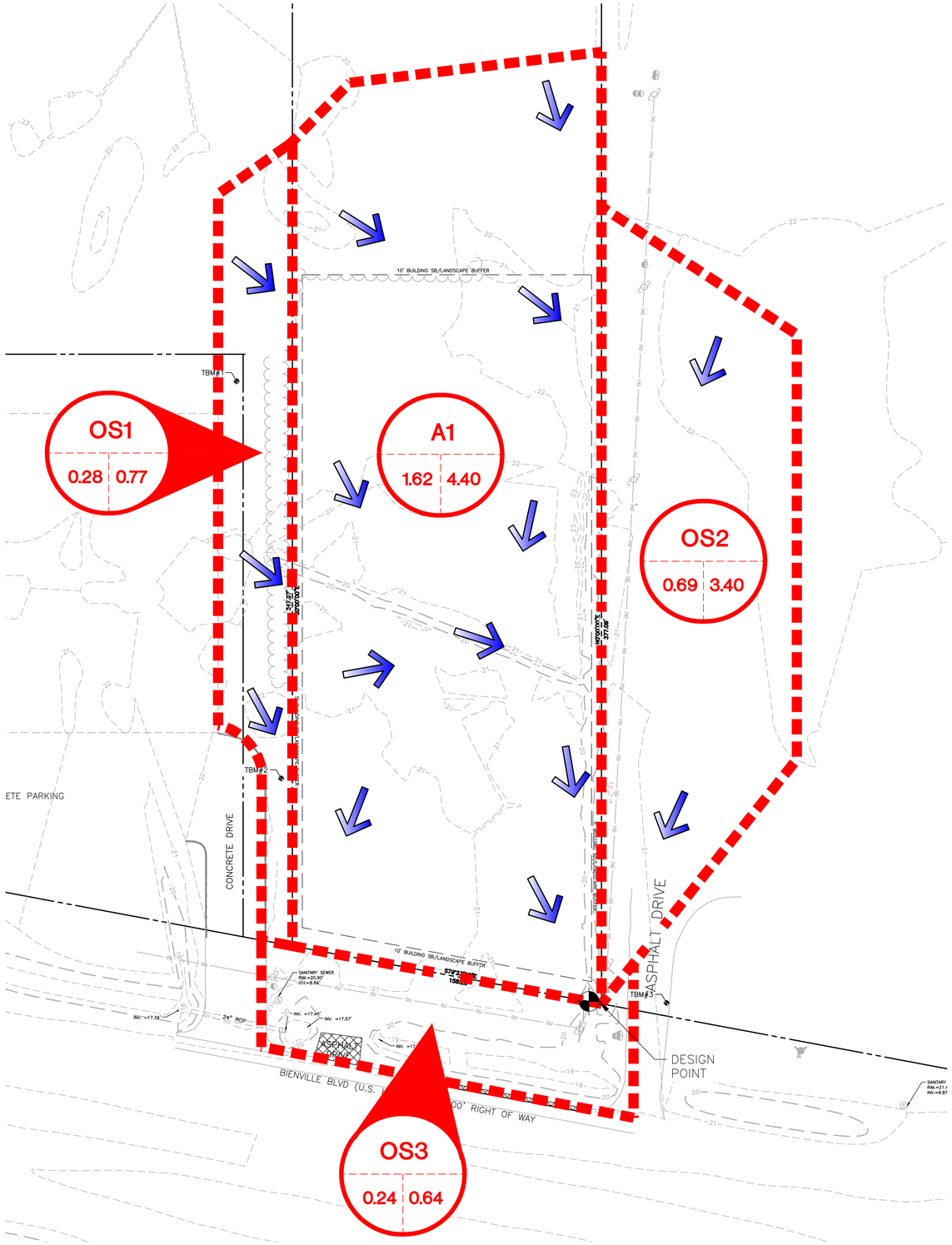
SHEET

GRADING PLAN

C3.00

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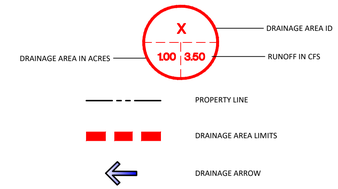
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GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

BENCHMARKS:
TBM 1: CONTROL POINT CAPPED REBAR SET
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N: 331223.49 E: 1004972.23 Z: 21.92
TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

LEGEND



EXISTING DRAINAGE CALCULATIONS

Area	Zoning/Land Use	Acreage	Tc	C	I_1	I_2	I_5	I_{10}	I_{25}	I_{50}	I_{100}	Q_1	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}	Comments
A1	Commercial Zone	1.62	15	0.35	4.21	4.84	5.85	6.67	7.78	8.62	9.44	2.38	2.74	3.31	3.77	4.40	4.88	5.34	Sheet flows Southeast to drainage channel
OS1	Commercial Zone	0.28	15	0.35	4.21	4.84	5.85	6.67	7.78	8.62	9.44	0.42	0.48	0.58	0.66	0.77	0.86	0.94	Sheet Flows Southeast to site
OS2	Commercial Zone	0.69	15	0.63	4.21	4.84	5.85	6.67	7.78	8.62	9.44	1.84	2.11	2.55	2.91	3.40	3.76	4.12	Sheetflows Southwest to Site
OS3	Commercial Zone	0.24	15	0.35	4.21	4.84	5.85	6.67	7.78	8.62	9.44	0.35	0.40	0.48	0.55	0.64	0.71	0.78	Channel Flows West
Totals		**2.83**										**4.99**	**5.73**	**6.93**	**7.90**	**9.22**	**10.21**	**11.18**	

COMPOSITE C CALCULATIONS

Drainage Area	Grass (SF)	Pavement (SF)	Building (SF)	Total Area (SF)	Composite C Value
	0.35	0.9	1.0		
A1	70432.13	N/A	N/A	70432.13	**0.35**
OS1	12344.73	N/A	N/A	12344.73	**0.35**
OS2	16641.03	4133.39	9470.95	30245.37	**0.63**
OS3	10306.98	N/A	N/A	10306.98	**0.35**
Total	109724.87	4133.39	9470.95	123329.21	**0.42**

PRE-DEVELOPMENT STORMWATER RUNOFF AT DESIGN POINT	
DRAINGE AREA	Q (CFS)
A1	4.40
OS1	0.77
OS2	3.40
TOT. Q @DP	**8.57**

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OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
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PLAN INFORMATION

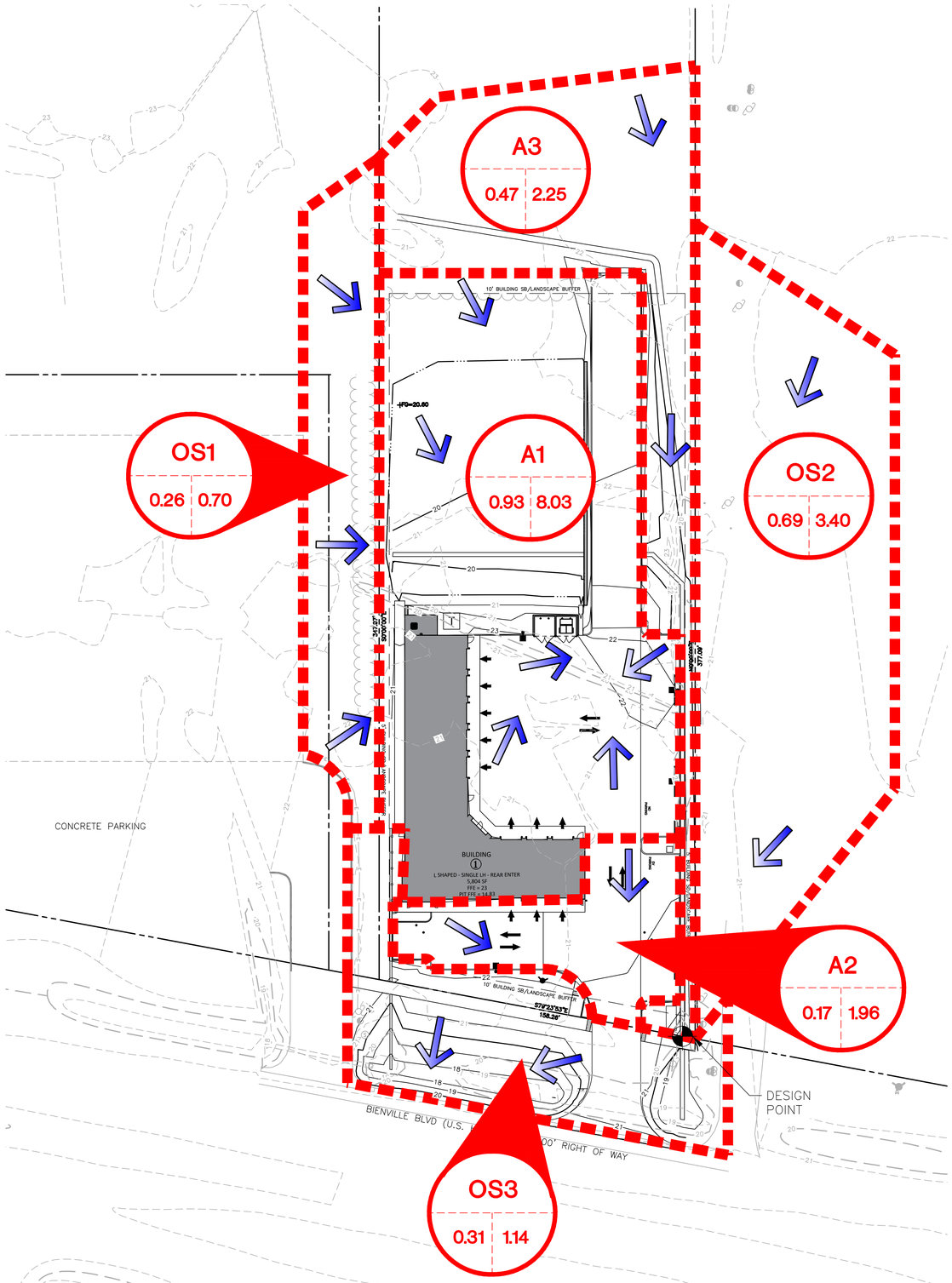
PROJECT NO.	EXO25010
FILENAME	EXO25010-EDAM
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 30'
DATE	6/26/2026

SHEET

EXISTING DRAINAGE AREA MAP

C3.01

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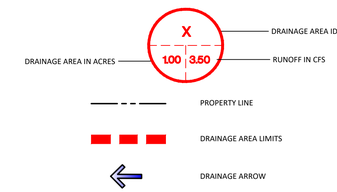


GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

BENCHMARKS:

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TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

LEGEND



PROPOSED DRAINAGE CALCULATIONS

Area	Zoning/Land Use	Acreage	Tc	C	I_1	I_2	I_5	I_{10}	I_{25}	I_{50}	I_{100}	Q_1	Q_2	Q_5	Q_{10}	Q_{25}	Q_{50}	Q_{100}	Comments
A1	Commercial Zone	0.93	5	0.66	7.08	8.14	9.83	11.20	13.10	14.50	15.90	4.34	4.99	6.02	6.86	8.03	8.89	9.74	Sheet flows to detention pond
A2	Commercial Zone	0.17	5	0.88	7.08	8.14	9.83	11.20	13.10	14.50	15.90	1.06	1.22	1.47	1.68	1.96	2.17	2.38	Sheet flows Southeast to drainage channel
A3	Commercial Zone	0.47	15	0.36	4.21	4.84	5.85	6.67	13.10	8.62	9.44	0.72	0.83	1.01	1.15	2.25	1.48	1.62	Sheet flows Southeast to drainage channel
OS1	Commercial Zone	0.26	15	0.35	4.21	4.84	5.85	6.67	7.78	8.62	9.44	0.38	0.44	0.53	0.60	0.70	0.78	0.85	Sheet flows Southeast to site
OS2	Commercial Zone	0.69	15	0.63	4.21	4.84	5.85	6.67	7.78	8.62	9.44	1.84	2.11	2.55	2.91	3.40	3.76	4.12	Sheet flows Southwest to Site
OS3	Commercial Zone	0.31	15	0.47	4.21	4.84	5.85	6.67	7.78	8.62	9.44	0.62	0.71	0.86	0.98	1.14	1.26	1.38	Channel flows Southeast
Totals		**2.83**										**8.96**	**10.30**	**12.44**	**14.18**	**17.48**	**18.34**	**20.10**	

COMPOSITE C CALCULATIONS

Drainage Area	Grass (SF)	Pavement (SF)	Building (SF)	Total Area (SF)	Composite C Value
	0.35	0.9	1.0		
A1	18582.26	15986.66	5804.39	40373.31	**0.66**
A2	282.18	7143.62	N/A	7425.80	**0.88**
A3	20128.10	496.21	N/A	20624.30	**0.36**
OS1	11191.19	N/A	N/A	11191.19	**0.35**
OS2	16641.03	4133.39	9470.95	30245.37	**0.63**
OS3	10730.63	2910.96	N/A	13641.59	**0.47**
Total	75499.90	31350.46	15275.34	122125.70	**0.57**

POST-DEVELOPMENT STORMWATER RUNOFF AT DESIGN POINT	
DRAINGE AREA	Q (CFS)
POND OUTFALL (A1 + OS1)	0.9
A2	1.96
A3	2.25
OS2	3.4
TOT. Q @DP	**8.51**

PRE VS POST DEVELOPMENT STORMWATER RUNOFF AT DESIGN POINT	
PRE Q @DP	8.57
POST Q @DP	8.51

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CONSTRUCTION DRAWINGS
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OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-PDAM
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 30'
DATE	6/26/2026

SHEET

PROPOSED DRAINAGE AREA MAP

C3.02

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

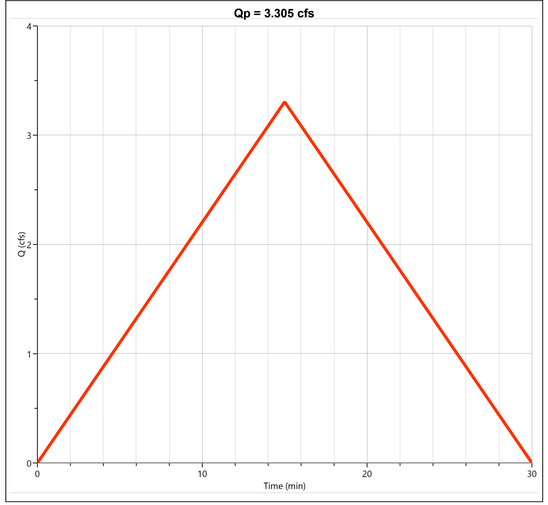
Z:\Drive\Projects\EXO\EXO25010\04-Production\Engineering\Current Drawings\Sheets\EXO25010-PDAM.dwg, 6/26/2026 4:04:35 PM, Keeton Zachary

Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Pre EXO25010 — **Hyd. No. 1**

Hydrograph Type	= Rational	Peak Flow	= 3.305 cfs
Storm Frequency	= 2-yr	Time to Peak	= 0.25 hrs
Time Interval	= 1 min	Runoff Volume	= 2,974 cuft
Drainage Area	= 1.9 ac	Runoff Coeff.	= 0.35
Tc Method	= User	Time of Conc. (Tc)	= 15.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 4.97 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

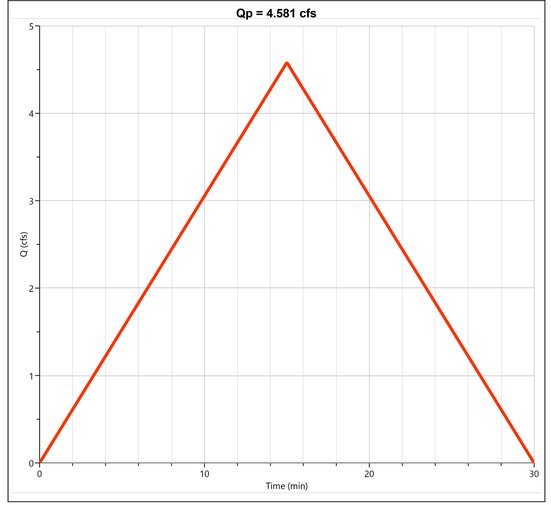


Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Pre EXO25010 — **Hyd. No. 1**

Hydrograph Type	= Rational	Peak Flow	= 4.581 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.25 hrs
Time Interval	= 1 min	Runoff Volume	= 4,123 cuft
Drainage Area	= 1.9 ac	Runoff Coeff.	= 0.35
Tc Method	= User	Time of Conc. (Tc)	= 15.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 6.89 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

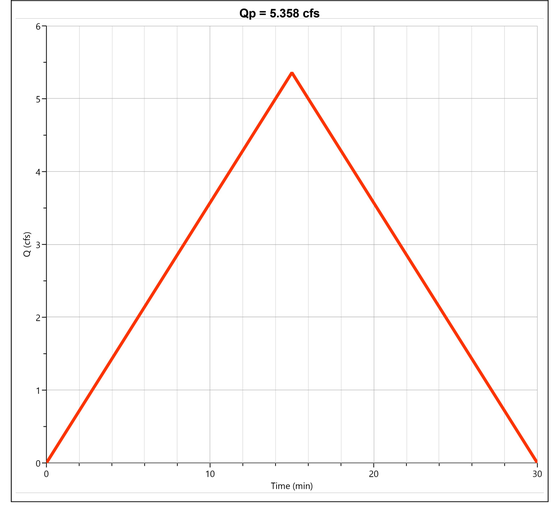


Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Pre EXO25010 — **Hyd. No. 1**

Hydrograph Type	= Rational	Peak Flow	= 5.358 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.25 hrs
Time Interval	= 1 min	Runoff Volume	= 4,823 cuft
Drainage Area	= 1.9 ac	Runoff Coeff.	= 0.35
Tc Method	= User	Time of Conc. (Tc)	= 15.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 8.06 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

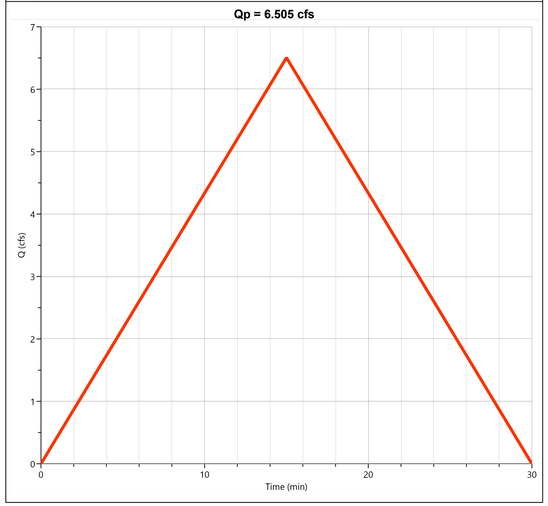


Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Pre EXO25010 — **Hyd. No. 1**

Hydrograph Type	= Rational	Peak Flow	= 6.505 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.25 hrs
Time Interval	= 1 min	Runoff Volume	= 5,855 cuft
Drainage Area	= 1.9 ac	Runoff Coeff.	= 0.35
Tc Method	= User	Time of Conc. (Tc)	= 15.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 9.78 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

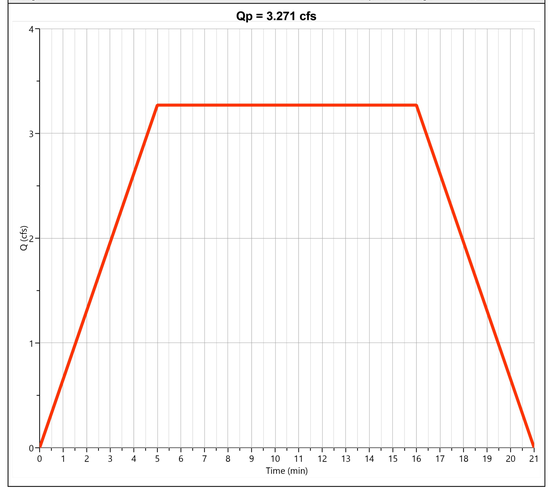


Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Post EXO25010 — **Hyd. No. 2**

Hydrograph Type	= Mod Rational	Peak Flow	= 3.271 cfs
Storm Frequency	= 2-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 3,336 cuft
Drainage Area	= 1.18 ac	Runoff Coeff.	= 0.59
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 4.70 in/hr
Freq. Corr. Factor	= 1.00	Storm Duration	= 3.4 x Tc
Target Q	= 3.310 cfs	Required Storage	= 1,251 cuft

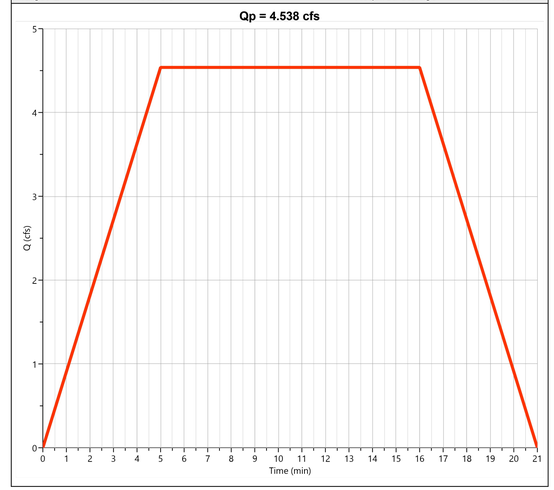


Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Post EXO25010 — **Hyd. No. 2**

Hydrograph Type	= Mod Rational	Peak Flow	= 4.538 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 4,629 cuft
Drainage Area	= 1.18 ac	Runoff Coeff.	= 0.59
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 6.52 in/hr
Freq. Corr. Factor	= 1.00	Storm Duration	= 3.4 x Tc
Target Q	= 4.580 cfs	Required Storage	= 1,743 cuft



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OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

SHEET

DETENTION CALCULATIONS

C3.03

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

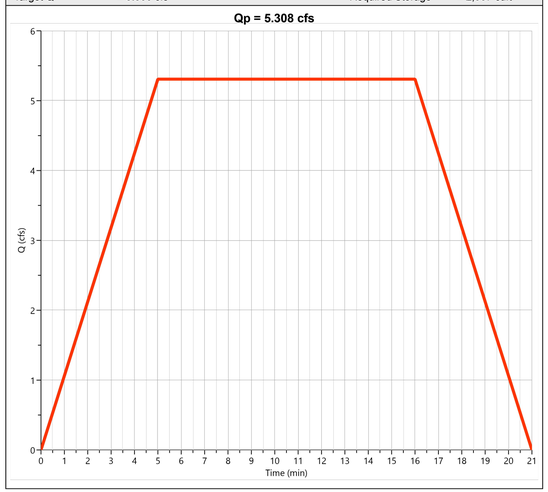
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Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Post EXO25010 — Hyd. No. 2

Hydrograph Type	= Mod Rational	Peak Flow	= 5.308 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 5,414 cuft
Drainage Area	= 1.18 ac	Runoff Coeff.	= 0.59
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 7.62 in/hr
Freq. Corr. Factor	= 1.00	Storm Duration	= 3.4 x Tc
Target Q	= 5.360 cfs	Required Storage	= 2,037 cuft

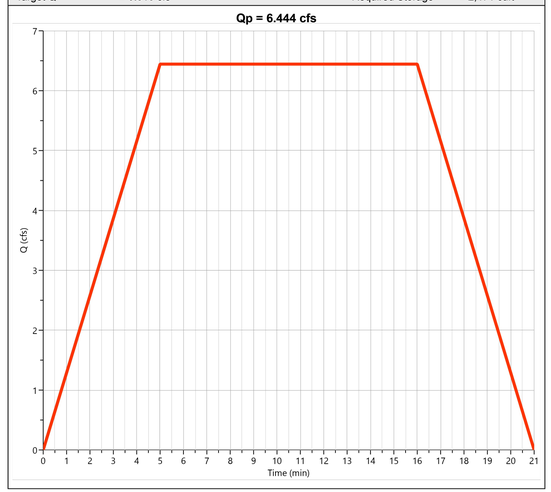


Hydrograph Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

Post EXO25010 — Hyd. No. 2

Hydrograph Type	= Mod Rational	Peak Flow	= 6.444 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 6,573 cuft
Drainage Area	= 1.18 ac	Runoff Coeff.	= 0.59
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= BiloxiMS.idf	Intensity	= 9.26 in/hr
Freq. Corr. Factor	= 1.00	Storm Duration	= 3.4 x Tc
Target Q	= 6.510 cfs	Required Storage	= 2,471 cuft



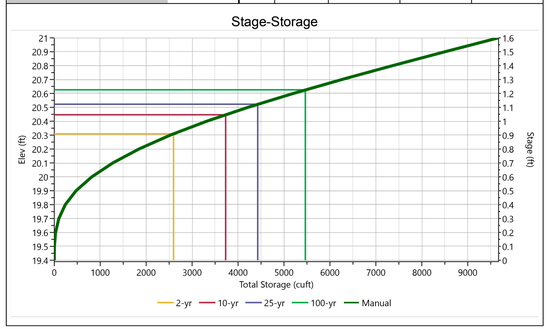
Pond Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

EXO25010 - Ocean Springs — Stage-Storage

User Defined Storage	
Description	Input
Bottom Elevation, ft	19.40

Stage / Storage Table				
Stage (ft)	Elevation (ft)	Contour Area (sqft)	Incr. Storage (cuft)	Total Storage (cuft)
0.00	19.40	n/a	0.000	0.000
0.10	19.50	n/a	3.24	3.24
0.20	19.60	n/a	25.4	28.6
0.30	19.70	n/a	71.3	99.9
0.40	19.80	n/a	140	240
0.50	19.90	n/a	234	474
0.60	20.00	n/a	344	818
0.70	20.10	n/a	456	1,274
0.80	20.20	n/a	568	1,842
0.90	20.30	n/a	681	2,524
1.00	20.40	n/a	794	3,318
1.10	20.50	n/a	900	4,217
1.20	20.60	n/a	987	5,205
1.30	20.70	n/a	1,055	6,260
1.31	20.71	n/a	109	6,368
1.32	20.72	n/a	109	6,478
1.40	20.80	n/a	888	7,365
1.50	20.90	n/a	1,140	8,505
1.60	21.00	n/a	1,165	9,670

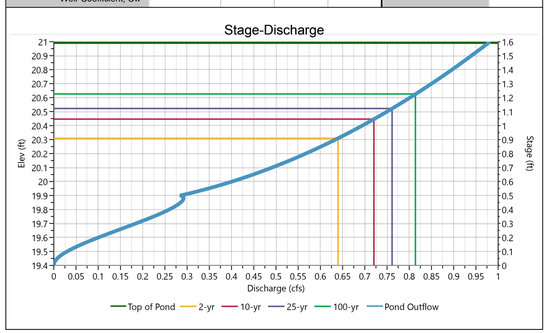


Pond Report

Hydrology Studio v 3.0.0.44 — File: EXO25010 - Detention Storage.hys — 06-26-2026

EXO25010 - Ocean Springs — Stage-Discharge

Culvert / Orifices	Cir Culvert	Orifice 1	Orifice 2	Orifice 3	Perforated Riser	
Rise, in	6				Hole Diameter, in	
Span, in	6				No. holes	
No. Barrels	1				Invert Elevation, ft	
Invert Elevation, ft	19.40				Height, ft	
Orifice Coefficient, Co	0.60				Orifice Coefficient, Co	
Length, ft	24					
Barrel Slope, %	.42					
N-Value, n	0.012					
Weirs	**Riser**	**Weir 1**	**Weir 2**	**Weir 3**	**Ancillary**	
Shape / Type					Exfiltration, in/hr	
Crest Elevation, ft						
Crest Length, ft						
Angle, deg						
Weir Coefficient, Cw						



PRE-DEVELOPMENT STORMWATER RUNOFF AT DESIGN POINT	
DRAINAGE AREA	Q (CFS)
A1	4.40
OS1	0.77
OS2	3.40
TOT. Q @DP	**8.57**

POST-DEVELOPMENT STORMWATER RUNOFF AT DESIGN POINT	
DRAINAGE AREA	Q (CFS)
POND OUTFALL (A1 + OS1)	0.9
A2	1.96
A3	2.25
OS2	3.4
TOT. Q @DP	**8.51**

PRE VS POST DEVELOPMENT STORMWATER RUNOFF AT DESIGN POINT	
PRE Q @DP	8.57
POST Q @DP	8.51

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PHONE: 501. 840. 0001

EXPRESS OIL CHANGE
EXPRESS OIL CHANGE, TIRE ENGINEERS

EXPRESS OIL
OCEAN SPRINGS, MS

CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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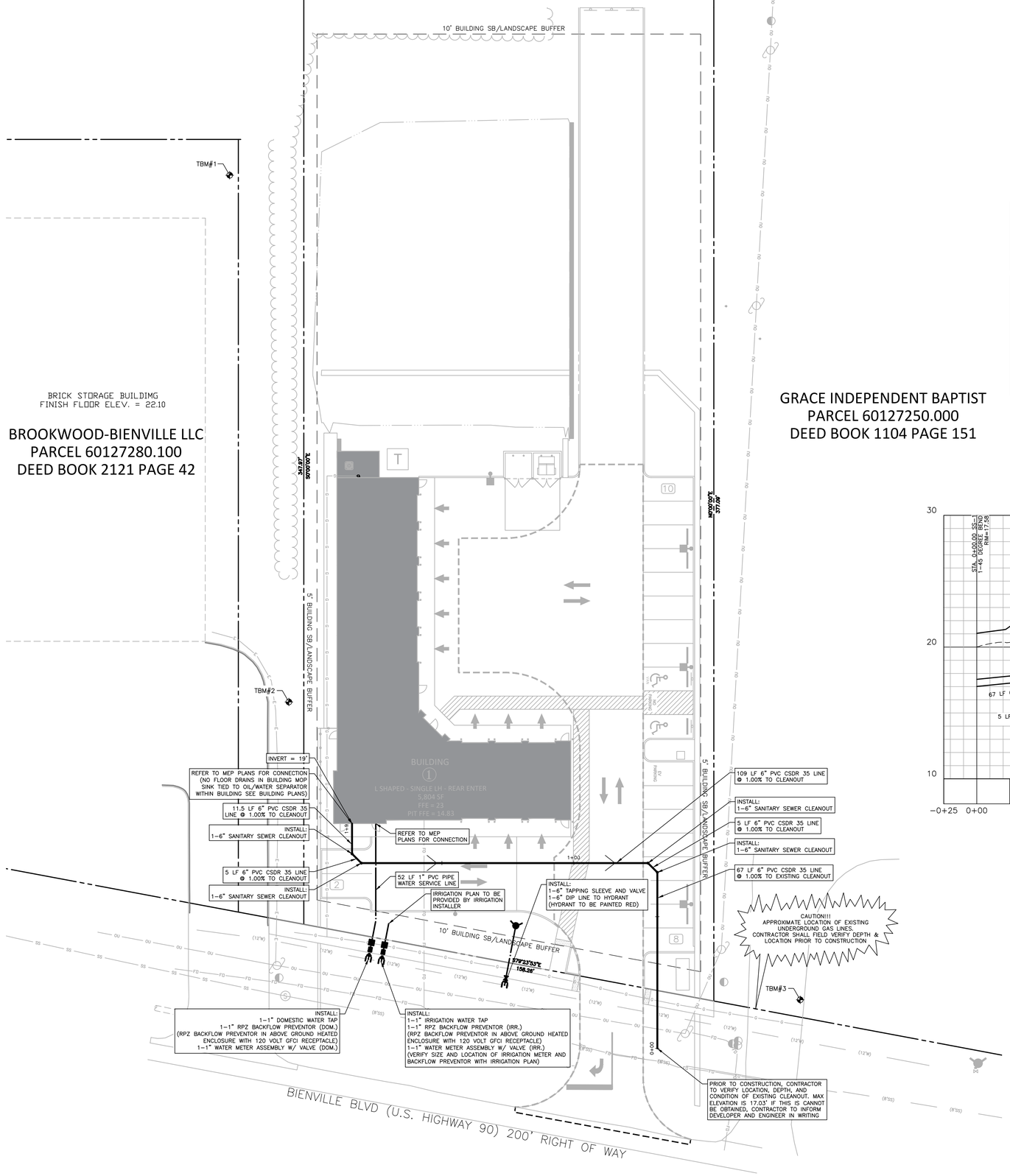
SHEET

DETENTION CALCULATIONS

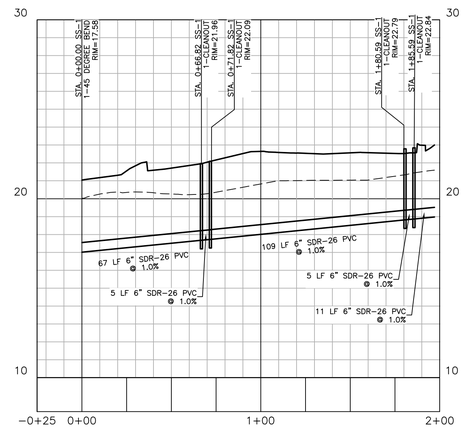
C3.04

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

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SS-1



GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:

TBM 1: CONTROL POINT CAPPED REBAR SET
N: 331423.46 E: 1004949.77 Z: 21.45
TBM 2: CONTROL POINT CAPPED REBAR SET
N: 331223.49 E: 1004972.23 Z: 21.92
TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

- ALL TAPS WILL BE MADE BY DEVELOPER
- MUST PAY SUPERVISION FEE, 48 HR. NOTICE BEFORE WORK IS DONE
- ALL TAP & SERVICES MUST MEET COMMERCIAL REGULATIONS
- ANY WATER METER WITHIN PAVEMENT OR CONCRETE MUST BE IN A TRAFFIC RATED BOX

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF OCEAN SPRINGS ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

- ALL CODE SECTIONS CITED TAKEN FROM THE 2018 INTERNATIONAL FIRE CODE AS ADOPTED BY THE CITY OF OCEAN SPRINGS.
- ALL FIRE HYDRANTS SHALL BE PAINTED RED.
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED WITH AN APPROVED DRIVING SURFACE TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES AND BE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF A FIRE APPARATUS WEIGHING AT LEAST 75,000 LBS. §503.2.3
- BUILDING AND FIRE PROTECTION PLANS WILL BE REVIEWED AT BUILDING CONSTRUCTION PERMITTING.
- INSUFFICIENT INFORMATION PROVIDED AT DEVELOPMENT REVIEW.

PROPOSED UTILITY LEGEND

- WATERLINE
- SANITARY SEWER
- GAS LINE
- UNDERGROUND ELECTRIC
- TELECOM LINE
- UTILITY SLEEVE
- FIRE HYDRANT ASSEMBLY
- WATER METER
- WATER VALVE
- BACKFLOW PREVENTER
- SEWER CLEAN-OUT
- SEWER MANHOLE

EXISTING UTILITIES LEGEND

- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING IRRIGATION WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY CLEAN OUT
- EXISTING STORM DRAIN MANHOLE
- EXISTING LIGHT POLE
- EXISTING A/C UNIT
- EXISTING ELECTRICAL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRIC PULL BOX
- EXISTING TELECOM BOX
- EXISTING GAS METER
- EXISTING WATER LINE
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELECOM
- EXISTING GAS LINE

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CLIENT

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BIRMINGHAM, AL 35244
PHONE: 501. 840. 0001

EXPRESS OIL OCEAN SPRINGS, MS

CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
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PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-U1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	6/26/2026

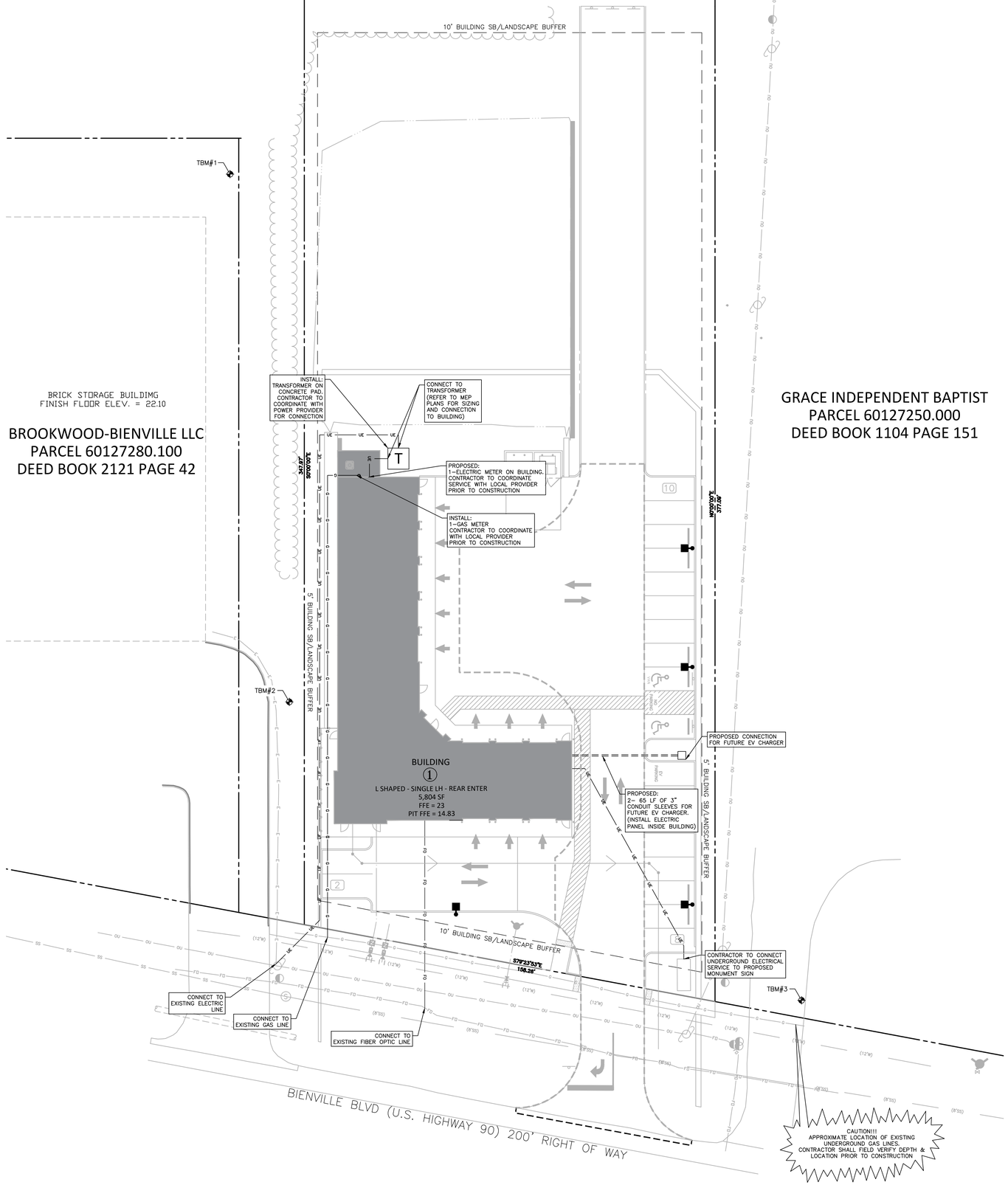
SHEET

WATER & SEWER PLAN

C4.00

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GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:

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TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

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SEE SHEET E104 FOR SITE LIGHTING ELECTRICAL CIRCUITS

PROPOSED UTILITY LEGEND

- WATERLINE
- SANITARY SEWER
- GAS LINE
- UNDERGROUND ELECTRIC
- TELECOM LINE
- UTILITY SLEEVE
- FIRE HYDRANT ASSEMBLY
- WATER METER
- WATER VALVE
- BACKFLOW PREVENTER
- SEWER CLEAN-OUT
- SEWER MANHOLE
- TRANSFORMER PAD
- POLE LIGHT

EXISTING UTILITIES LEGEND

- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING IRRIGATION WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY CLEAN OUT
- EXISTING STORM DRAIN MANHOLE
- EXISTING LIGHT POLE
- EXISTING A/C UNIT
- EXISTING ELECTRICAL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRIC PULL BOX
- EXISTING TELECOM BOX
- EXISTING GAS METER
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PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-U2
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	6/26/2026

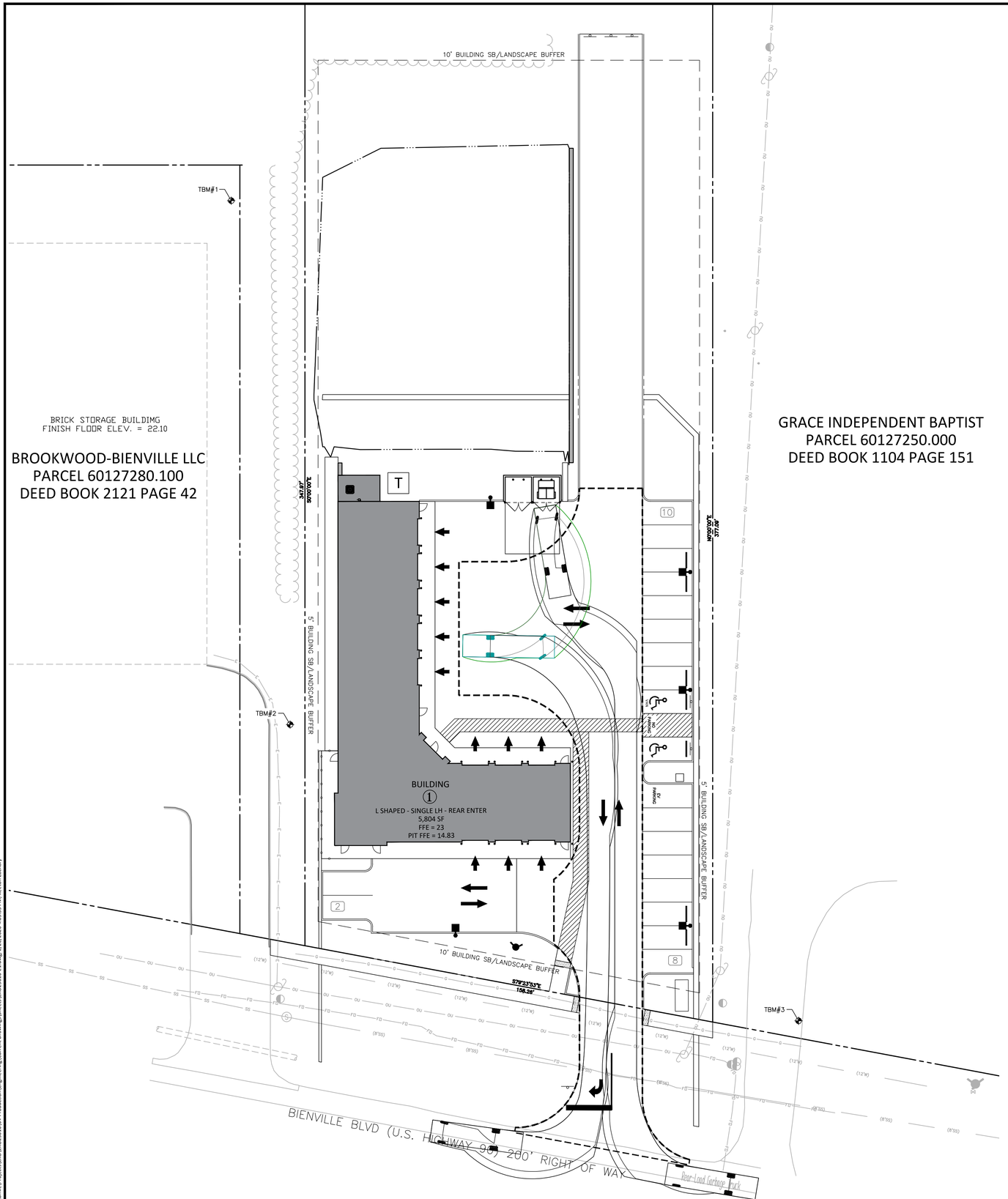
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FRANCHISE UTILITY PLAN

C4.01

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

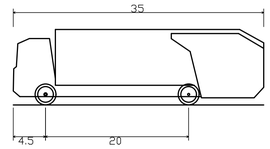
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GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:
TBM 1: CONTROL POINT CAPPED REBAR SET
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TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

VEHICLE USED FOR SIMULATION



Rear-Load Garbage Truck	
Overall Length	35.000ft
Overall Width	8.375ft
Overall Body Height	10.546ft
Min Body Ground Clearance	1.000ft
Track Width	8.375ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	29.300ft

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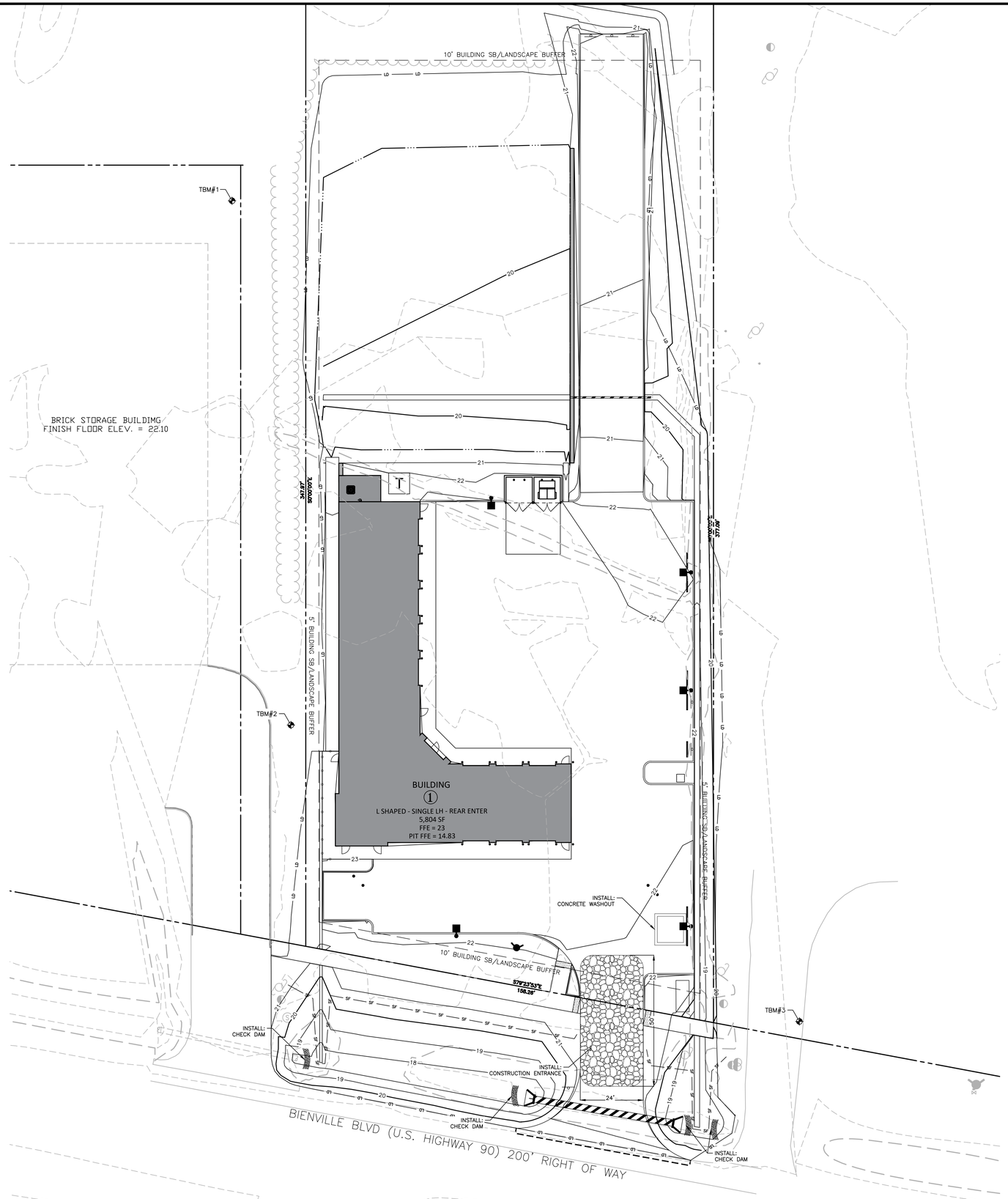
SHEET

GARBAGE TRUCK TURN EXHIBIT

C5.00

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GRAPHIC SCALE

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SEE SHEET C8.00 FOR EROSION CONTROL DETAILS

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NOTES

1<5 ACRES OF LAND DISTURBED: PERMIT REQUIRED FROM CITY OF OCEAN SPRINGS CODE ENFORCEMENT OFFICE. A SMALL CONSTRUCTION NOTICE OF INTENT (NOI) AND SWPPP MUST BE SUBMITTED TO THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

MINIMUM REQUIREMENTS FOR CONSTRUCTION SITES WITH LAND DISTURBANCE:

1. STORM CONTROL MEASURES SHALL BE INSTALLED AT THE ONSET OF CONSTRUCTION.
2. THESE MEASURES SHALL CAPTURE SEDIMENT PRIOR TO IT LEAVING THE PROPERTY.
3. SILT FENCING IS A LAST LINE CONTROL MEASURE AND SHOULD BE MAINTAINED CONTINUOUSLY.
4. TEMPORARY AND/OR PERMANENT REVEGETATION OF BARE GROUND MUST BE UTILIZED IN ORDER TO STABILIZE DISTURBED SOIL AT THE EARLIEST PRACTICABLE DATE.
5. STEEP SLOPES REQUIRE HYDRO SEEDING/SOD AND/OR THE INSTALLATION OF EROSION CONTROL MAT.
6. CONSTRUCTION OF ON-SITE STORMWATER RETENTION SHOULD FUNCTION AS TEMPORARY SEDIMENTATION RETENTION UNTIL PERMANENT REVEGETATION OF THE SUBJECT TRACT IS ACCOMPLISHED.
7. OTHER MEASURES MAY BE NECESSARY TO CONTROL EROSION AND SEDIMENTATION ON A SITE-BY-SITE BASIS.

DRAINAGE DEPARTMENT:

- MUST KEEP ROADWAYS CLEAR OF DEBRIS AND EQUIPMENT.
- SILT FENCING SURROUNDING WORK SITE REQUIRED.

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- CONCRETE WASHOUT PIT
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
- TP/LD — TREE PROTECTION FENCE/ LIMITS OF DISTURBANCE
- SF/TP — COMBINATION SILT FENCE/ TREE PROTECTION FENCE
- TC — TREE CONSERVATION
- WOODED AREA
- DIVERSION DITCH
- COIR BAFFLE
- CONSTRUCTION ENTRANCE/EXIT

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SCALE	1" = 20'
DATE	6/26/2026

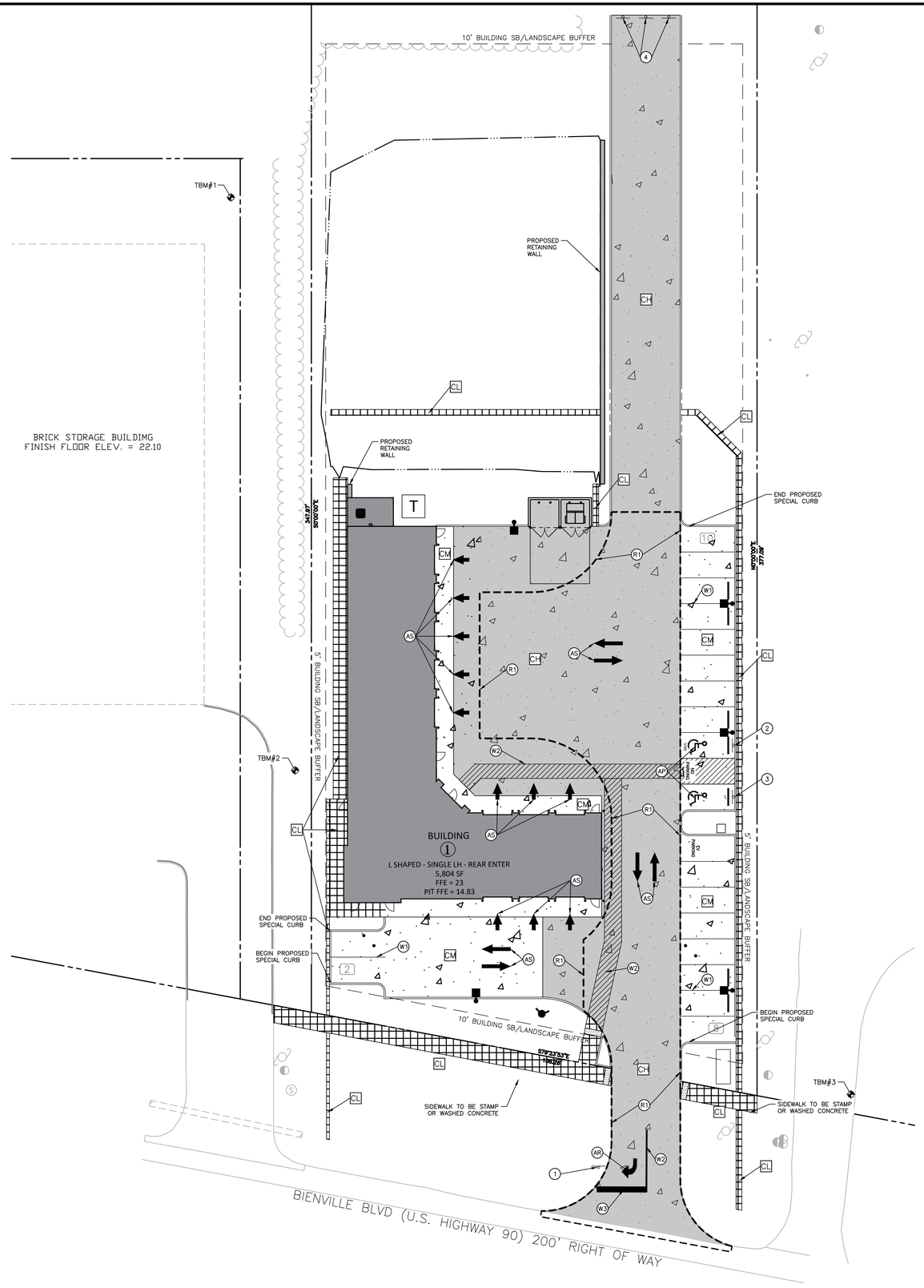
SHEET

EROSION CONTROL PLAN

C6.00

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

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GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

BENCHMARKS:

TBM 1: CONTROL POINT CAPPED REBAR SET
N: 331423.46 E: 1004949.77 Z: 21.45
TBM 2: CONTROL POINT CAPPED REBAR SET
N: 331223.49 E: 1004972.23 Z: 21.92
TBM 3: CONTROL POINT MAG NAIL SET
N: 331110.42 E: 1005166.22 Z: 20.70

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF OCEAN SPRINGS ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PAVEMENT MARKING LEGEND:

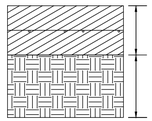
LANE LINES/MARKINGS
- W1 4" WHITE
- W2 8" WHITE
- W3 24" WHITE STOPBAR
- R1 4" RED

ARROWS/CHARACTERS
- AP ACCESSIBLE PARKING
- AS STRAIGHT ARROW
- AR RIGHT ARROW

PAVEMENT LEGEND:

- CL LIGHT DUTY CONCRETE
- CM MEDIUM DUTY CONCRETE
- CH HEAVY DUTY CONCRETE
- STANDARD CURB
- RETAINING WALL
- FIRELANE

CONCRETE PAVEMENT SECTIONS



	CL LIGHT DUTY	CM MEDIUM DUTY	CH HEAVY DUTY
REINFORCED PORTLAND CEMENT CONCRETE (F'c = 4000 PSI AT 28 DAYS)	5.0"	6.0"	8.0"
GRADED AGGREGATE BASE COURSE ON TOP OF 12" OF PREPARED SUBGRADE. NO. 610 LIMESTONE OR SIMILARLY GRADED ALTERNATIVE COMPACTED TO 95% OF MAX. DRY DENSITY	4.0"	4.0"	4.0"

GEOTECHNICAL ENGINEER
TERRACON CONSULTANTS, INC.
11211 INDUSTRIPLEX BLVD,
SUITE 300, BATON ROUGE, LA
70809
225-224-2583
TERRACON PROJECT NO.
65:1978

ALL FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED WITH AN APPROVED DRIVING SURFACE TO PROVIDE ALL- WEATHER DRIVING CAPABILITIES AND CAPABLE OF SUPPORTING THE IMPOSED LOAD OF A FIRE APPARATUS WEIGHING AT LEAST 75,00. §503.2.3

SIGN LEGEND:

1. STOP — MUTCD R1–1 36"x36"
2. RESERVED PARKING (VAN ACCESSIBLE) — R7–8 18"x12" & R7–8A 18"x9"
3. RESERVED PARKING — R7–8 18"x12"
4. CM4–3 18"x18"

McADAMS
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4400 State Highway 121, Suite 800
Lewisville, Texas 75056

phone 972. 436. 9712
fax 972. 436. 9715
TBPE: F-19762 TBPLS: F-10194440

www.mcadamsco.com
MISSISSIPPI COA E-33729

CLIENT

JUSTIN DUCK
1880 SOUTHPARK DRIVE
BIRMINGHAM, AL 35244
PHONE: 501. 840. 0001

EXPRESS OIL
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-PV1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	6/26/2026

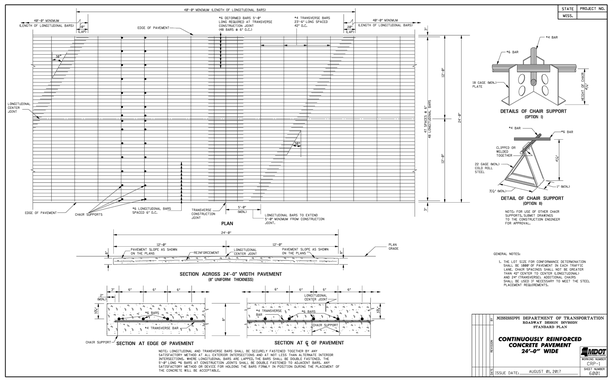
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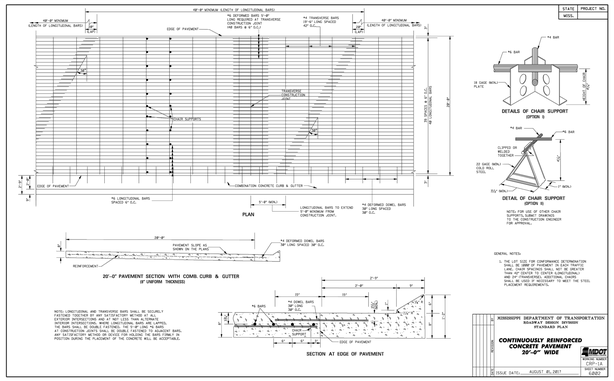
PAVEMENT, STRIPING & SIGNAGE PLAN

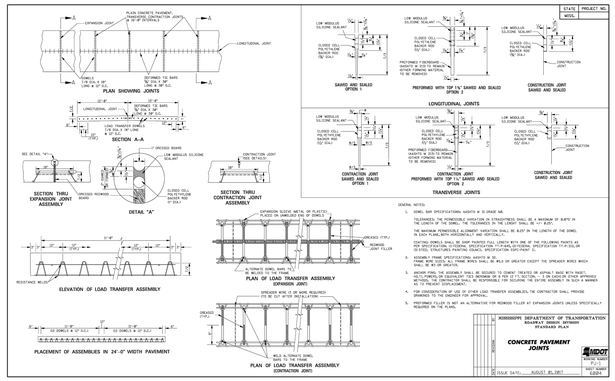
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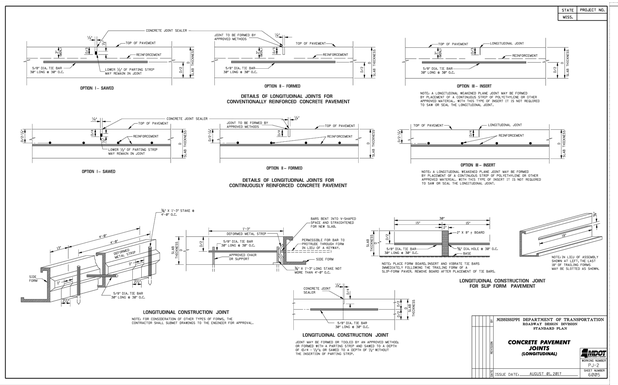
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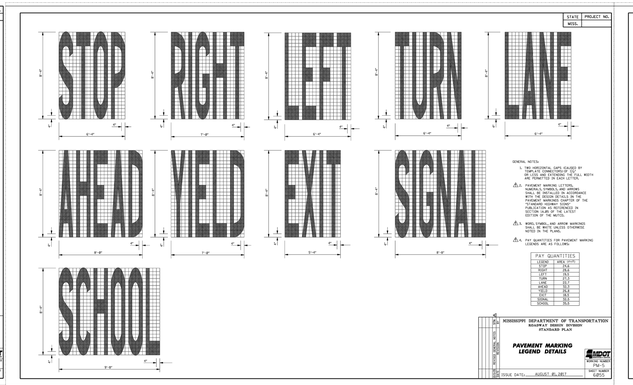
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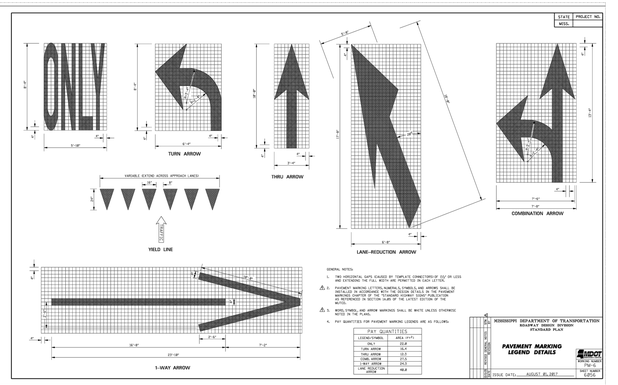


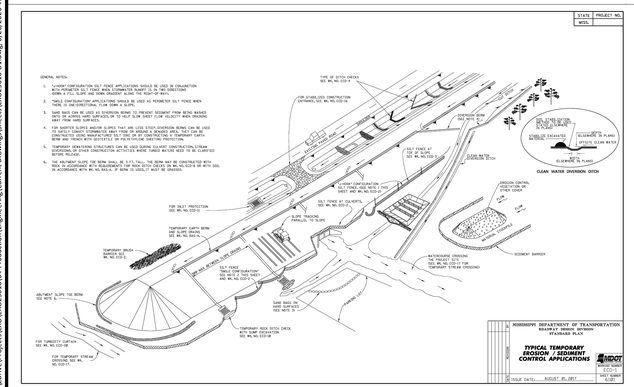


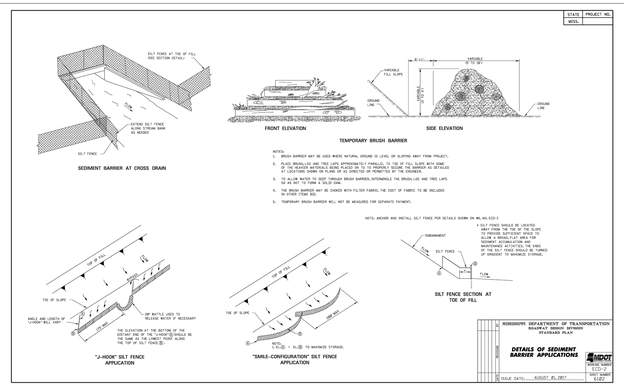


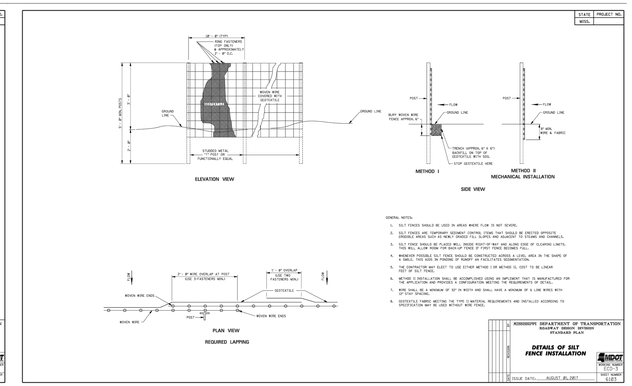












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EXPRESS OIL
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
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2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

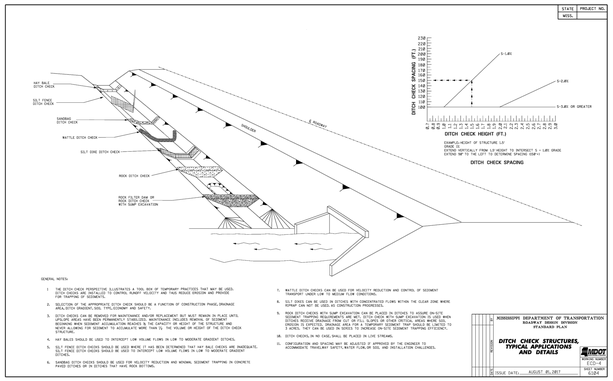
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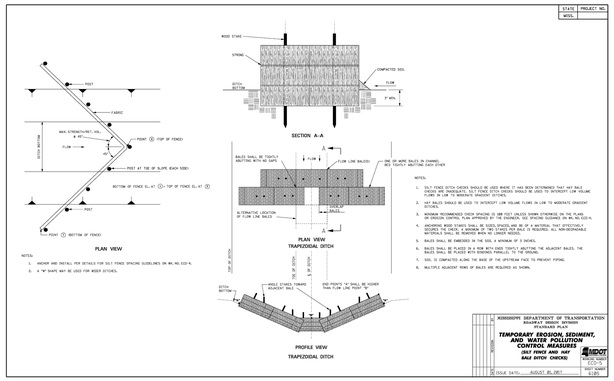
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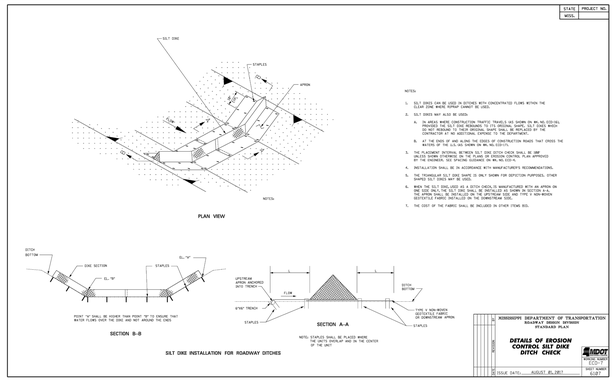
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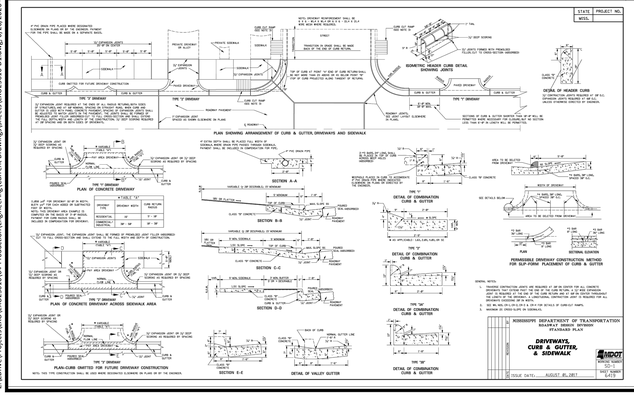
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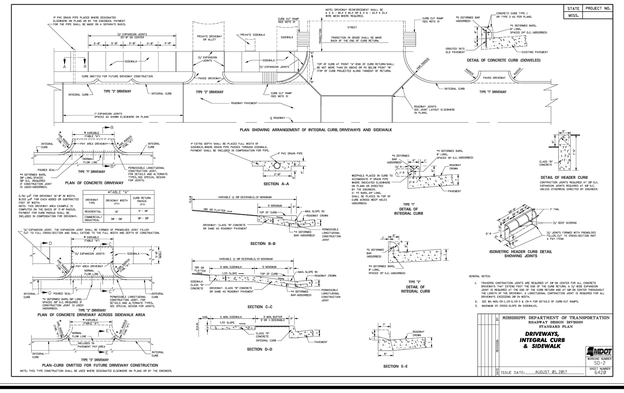
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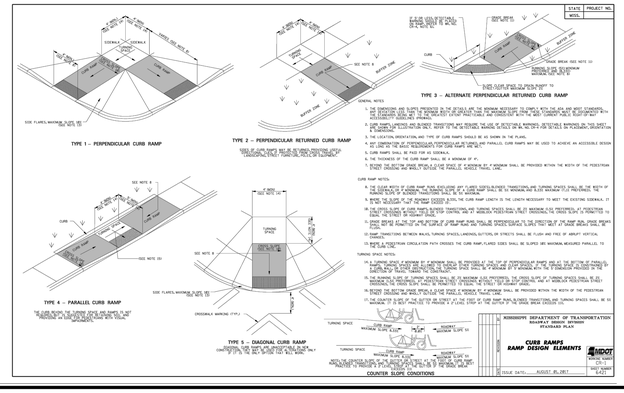












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EXPRESS OIL CHANGE OCEAN SPRINGS, MS

CONSTRUCTION DRAWINGS
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OCEAN SPRINGS, MS, 39564

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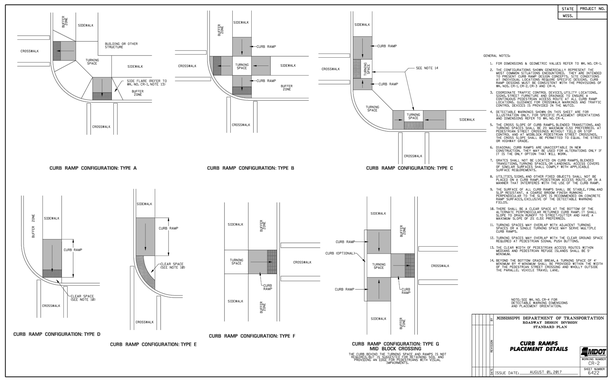
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FILENAME	EXO25010-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

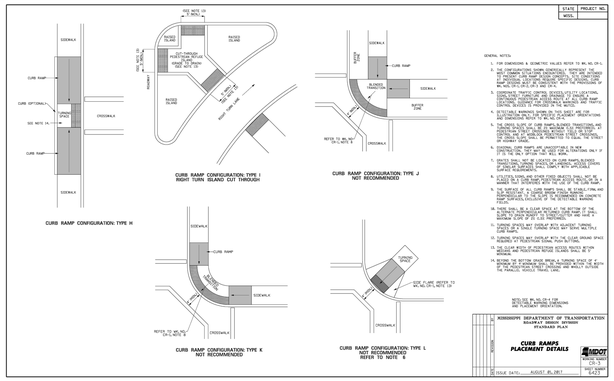
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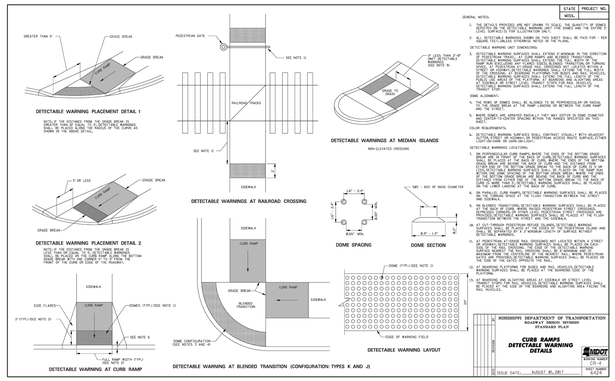
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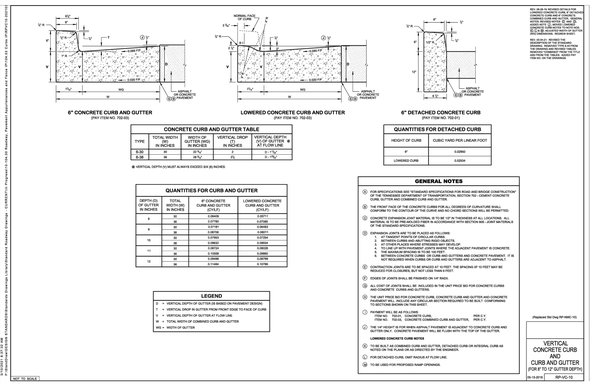
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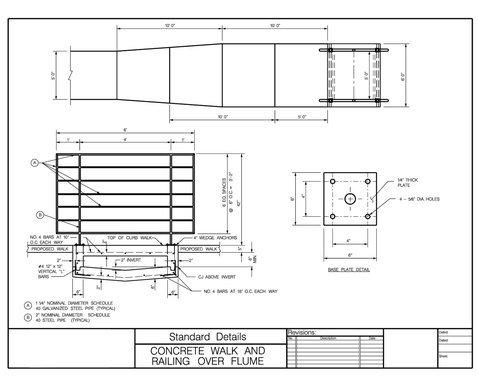
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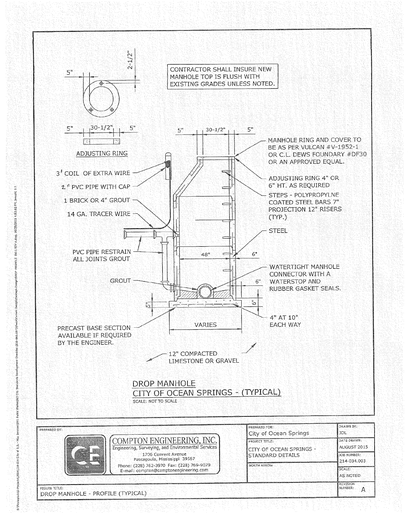


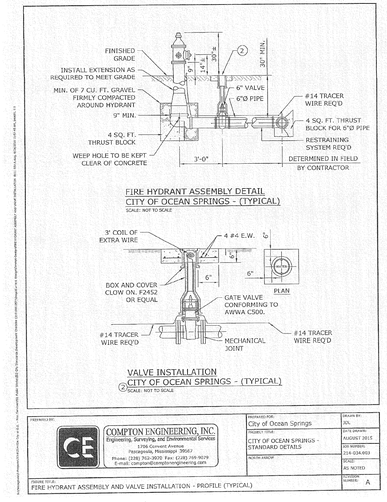


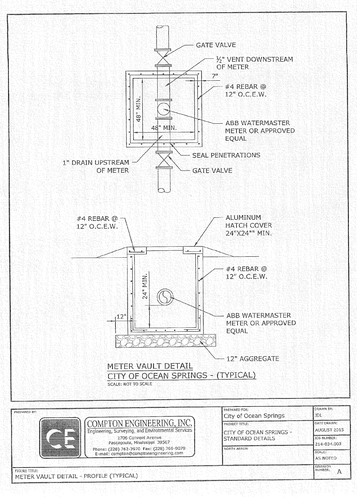


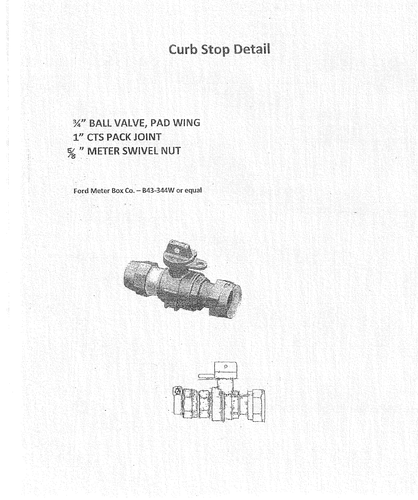


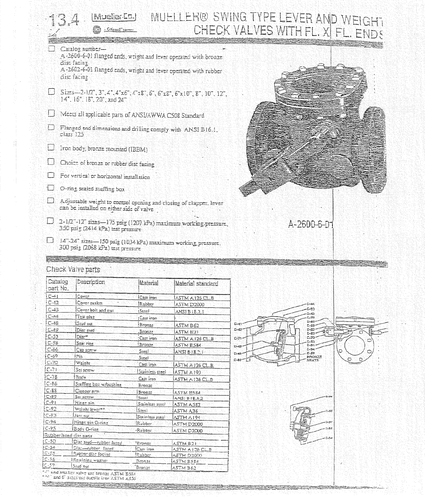












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PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026
SHEET	

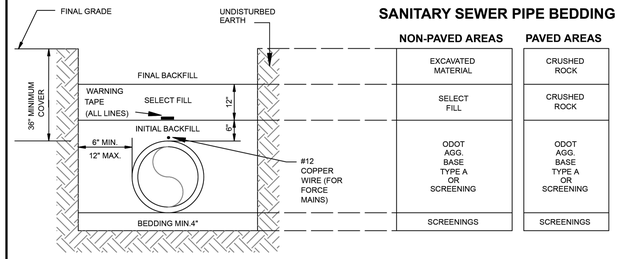
STANDARD CONSTRUCTION DETAILS

C8.02

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SANITARY SEWER PIPE BEDDING



	NON-PAVED AREAS	PAVED AREAS
	EXCAVATED MATERIAL	CRUSHED ROCK
	SELECT FILL	CRUSHED ROCK
	ODOT AGG. BASE TYPE A OR SCREENING	ODOT AGG. BASE TYPE A OR SCREENING
	SCREENINGS	SCREENINGS

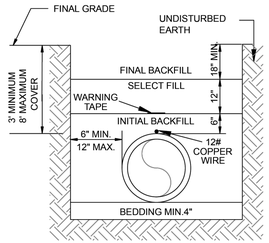
NOTES:
1. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 2 INCHES.
2. CRUSHED ROCK SHALL BE ODOT TYPE "A" BASE
3. COMPACTION REQUIREMENTS:
   a. NON- PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS.
4. FILLS OVER 12 FEET DEEP - MATERIAL IN THE AREA FROM SELECT FILL TO BEDDING SHALL BE 3/4" CRUSHER RUN WELL GRADED. PIPE SHALL BE PER SAN-02.
5. FLOWABLE FILL MAY BE SUBSTITUTED FOR SELECT FILL IN ROAD CROSSING.
6. IN AREAS WHERE WATER INFILTRATION CANNOT BE CONTROLLED BEDDING AND INITIAL BACKFILL SHALL BE MATERIAL CONFORMING TO ODOT SECTION 703.04(A).
7. PIPE IN PROXIMITY TO WATER LINES SHALL COMPLY WITH CONSTRUCTION STANDARDS PARAGRAPH 2301.6.
8. SEE SAN-02 FOR SEWER PIPE MATERIAL REQUIREMENTS.

\STANDARD DETAILS\Sewer\SAN-01 .dwg

REVISION	BY	DATE

SAN. SEWER PIPE INSTALLATION
STANDARD DETAILS

DATE: 05/05 | STANDARD NO.: SAN-01



SECTION

NON-PAVED AREAS	PAVED AREAS
EXCAVATED MATERIAL	CRUSHED ROCK
SELECT FILL	CRUSHED ROCK
ODOT AGG. BASE TYPE A OR SCREENING	ODOT AGG. BASE TYPE A OR SCREENING
SCREENINGS	SCREENINGS

WATER PIPE BEDDING

NOTE: ALL WATER LINES UNDER PAVEMENT SHALL BE SLEEVED.

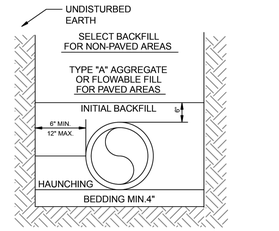
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4. FLOWABLE FILL MAY BE SUBSTITUTED FOR SELECT FILL IN ROAD CROSSING.
5. IN AREAS WHERE WATER INFILTRATION CANNOT BE CONTROLLED BEDDING AND INITIAL BACKFILL SHALL BE MATERIAL CONFORMING TO ODOT SECTION 703.04(A).
6. PIPE MATERIAL SHALL BE DIP C151 (CLASS 150) OR PVC AWWA C900 (CLASS 150) DR18. PVC PIPE LARGER THAN 12 INCHES SHALL BE AWWA C905, SDR21.
7. PIPE JOINTS WITHIN 100 FEET OF FITTING OR VALVE SHALL BE MECHANICALLY-RESTRAINED.
8. A #12 COPPER TRACER WIRE SHALL BE PLACED ON PVC PIPE AND ATTACHED TO ALL FIRE HYDRANTS AND VALVES.
9. PLACE A MYLAR WARNING TAPE (MARKED "WATER LINE") ATOP THE INITIAL BACKFILL FOR THE ENTIRE LENGTH OF THE LINE.

\STANDARD DETAILS\WATER\WAT-01

REVISION	BY	DATE

WATER PIPE INSTALLATION
STANDARD DETAILS

DATE: 05/05 | STANDARD NO.: WAT-01



PIPE BEDDING

NON-PAVED AREAS	PAVED AREAS
EXCAVATED MATERIAL	CRUSHED ROCK
SELECT FILL	CRUSHED ROCK
ODOT AGG. BASE TYPE A OR SCREENING	ODOT AGG. BASE TYPE A OR SCREENING
SCREENINGS	SCREENINGS

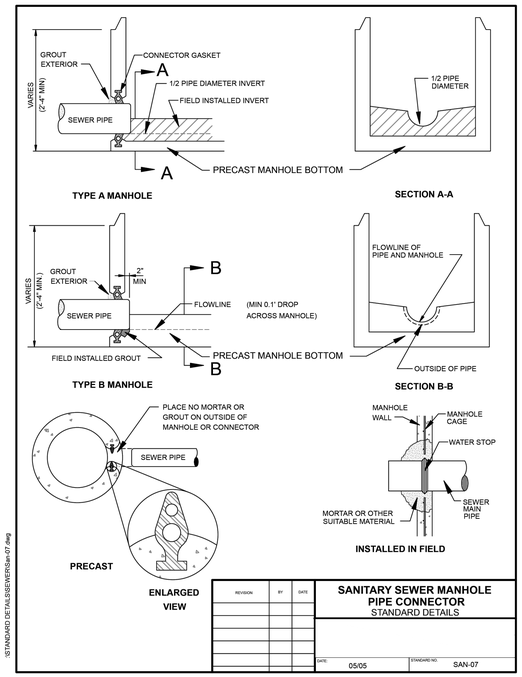
NOTES:
1. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 2 INCHES.
2. CRUSHED ROCK SHALL BE ODOT TYPE "A" BASE AGGREGATE
3. COMPACTION REQUIREMENTS:
   a. NON- PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS.
4. FILLS OVER 10 FEET DEEP - INITIAL BACKFILL SHALL BE ODOT TYPE "A" BASE AGG.
5. FLOWABLE FILL MAY BE SUBSTITUTED FOR TYPE "A" AGGREGATE IN ROAD CROSSING.
6. IN AREAS WERE WATER INFILTRATION CANNOT BE CONTROLED, BEDDING AND INITIAL BACKFILL SHALL BE MATERIAL CONFORMING TO ODOT SECTION 703.04(A).

\STANDARD DETAILS\STORM\STRM-01

REVISION	BY	DATE

STORM SEWER PIPE INSTALLATION
STANDARD DETAILS

DATE: 05/05 | STANDARD NO.: STRM-01

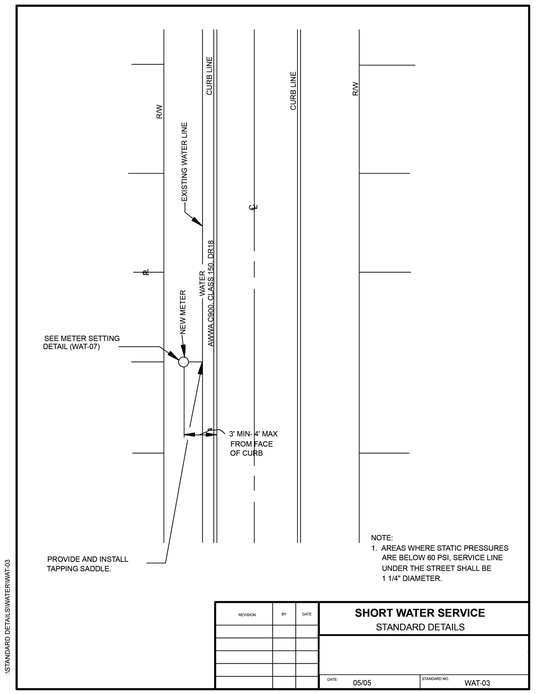


\STANDARD DETAILS\SEWER\San-07 .dwg

REVISION	BY	DATE

SANITARY SEWER MANHOLE PIPE CONNECTOR
STANDARD DETAILS

DATE: 05/05 | STANDARD NO.: SAN-07



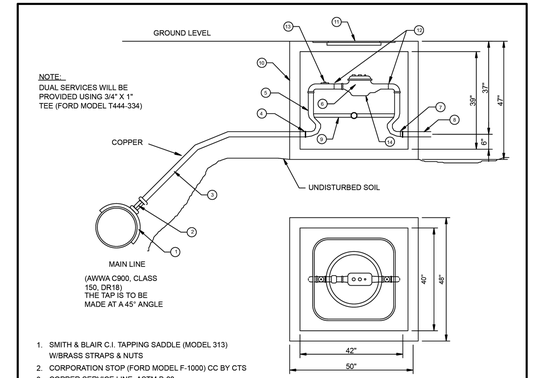
NOTE:
1. AREAS WHERE STATIC PRESSURES ARE BELOW 60 PSI, SERVICE LINE UNDER THE STREET SHALL BE 1 1/4" DIAMETER.

\STANDARD DETAILS\WATER\WAT-03

REVISION	BY	DATE

SHORT WATER SERVICE
STANDARD DETAILS

DATE: 05/05 | STANDARD NO.: WAT-03



1. SMITH & BLAIR C.I. TAPPING SADDLE (MODEL 313) W/BRASS STRAPS & NUTS
2. CORPORATION STOP (FORD MODEL F-1000) CC BY CTS
3. COPPER SERVICE LINE, ASTM B-88.
4. CTS COMPRESSION FITTING (#50 SERIES FORD CTS, INSERT STIFFENERS REQUIRED)
5. CTS BY DUAL PURPOSE SETTER
   A. 3/4" INSTALLATION - FORD V72-7W-41-33, 7" RISE
   B. 1" INSTALLATION - FORD V74-10W-41-44, 10" RISE
   C. 1 1/2" INSTALLATION - FORD VV7615W1166(C-84-66) WITH MALE ADAPTER, 15" RISE.
   D. 2" INSTALLATION - FORD VV771SW1177(C-84-77) WITH MALE ADAPTER, 15" RISE.
6. 3/4" TO 2" NEPTUNE PRO READ METER
7. DUAL PURPOSE FITTING
8. CUSTOMER SERVICE
9. STABILIZER BAR
10. 3/4" AND 1" INSTALLATION - 18" BROOKS METER CAN 1 1/2" AND 2" INSTALLATION - 28" x 24" GALVANIZED CAN W/ CAST IRON LID AND RIM
11. FOR STREETS OR PARKING LOTS, ALL METER CANS SHALL BE GALVANIZED CAN W/CAST IRON LID & RIM.
12. METER SPUD
13. METER STOP
14. FREEZE PLATE

\STANDARD DETAILS\WATER\ WAT-07

REVISION	BY	DATE

3/4" TO 2" METER SETTING
STANDARD DETAILS

DATE: 05/05 | STANDARD NO.: WAT-07

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PHONE: 501. 840. 0001

EXPRESS OIL CHANGE & TIRE ENGINEERS

EXPRESS OIL
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

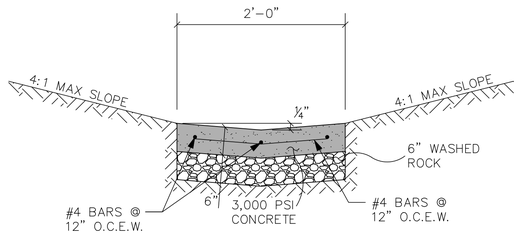
SHEET

STANDARD CONSTRUCTION DETAILS

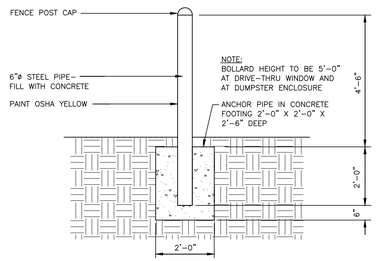
C8.03

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

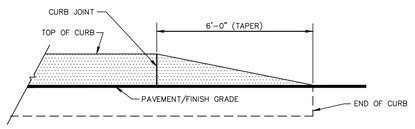
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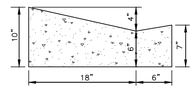
PILOT FLUME
N.T.S



STEEL PIPE BOLLARD
N.T.S.

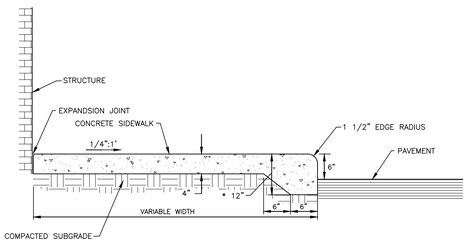


NOSE–DOWN CURB DETAIL
N.T.S.



NOTES:
1. 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. 1/2" EXPANSION JOINT EVERY 50'.
3. 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.

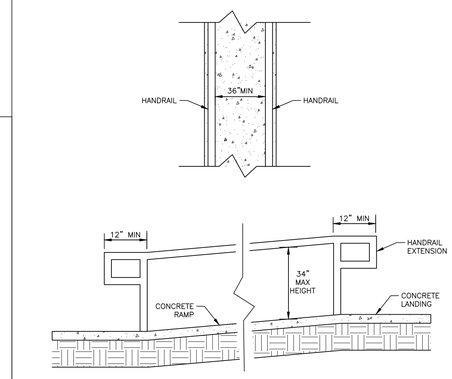
24" VALLEY TYPE GUTTER
N.T.S.



NOTES:
1. ALL CONCRETE 3000 PSI.
2. EXPANSION JOINTS 30' APART MAXIMUM.
3. CONTROL JOINT EVERY 5 FEET.
4. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH TOOLED 1/4" EDGE RADIUS.

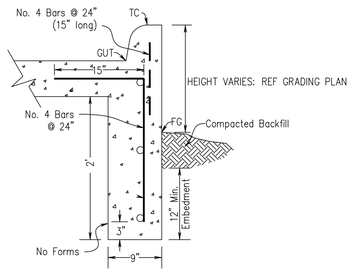
*AT CONTRACTOR'S OPTION THE BASE THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF SIDEWALK PARALLEL WITH PAVING OF BASE COURSE.

CONCRETE SIDEWALK TURNDOWN
N.T.S.

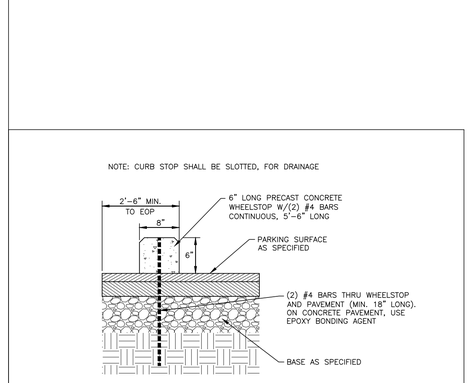


NOTES:
1. MINIMUM OF 36" FROM HANDRAIL TO HANDRAIL ALONG HANDICAP ACCESSIBLE RAMP.
2. HANDRAIL TOP AND BOTTOM EXTENSTIONS SHALL BE A MINIMUM OF 12" FROM THE END OF THE HANDRAIL TO THE END OF THE EXTENSION.
3. A MINIMUM OF 25% ALONG THE LENGTH OF THE HANDRAIL SHALL NOT EXCEED 34" IN HEIGHT. NO POINT ALONG THE HANDRAIL SHALL EXCEED 38" IN HEIGHT.
4. THE OUTER DIAMETER OF THE HANDRAIL SHALL BE A MINIMUM OF 1 1/4" AND A MAXIMUM OF 2".

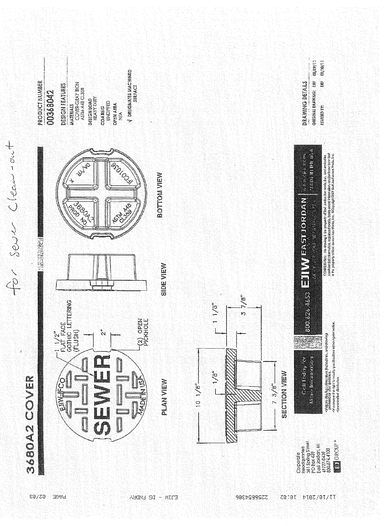
HANDRAIL
N.T.S.

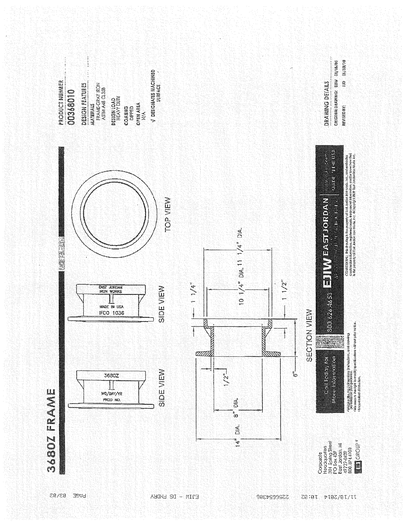


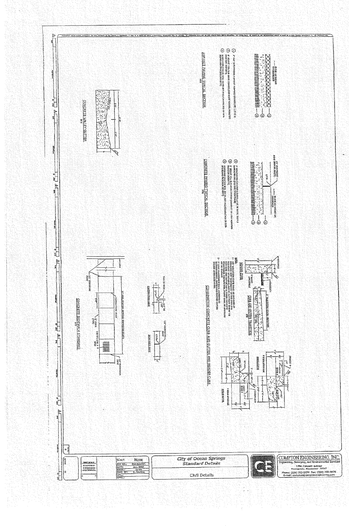
SPECIAL CURB DETAIL
(6"–18" EXPOSED)
N.T.S.

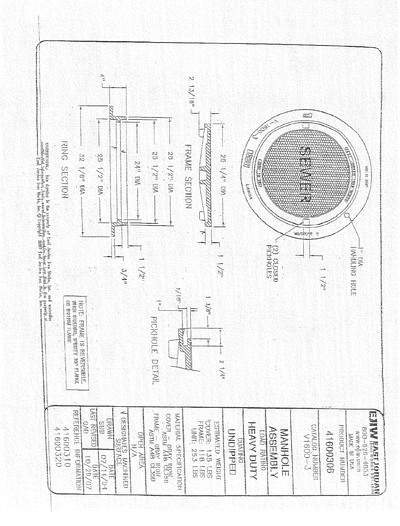


WHEEL STOP
N.T.S.









ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

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EXPRESS OIL CHANGE
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

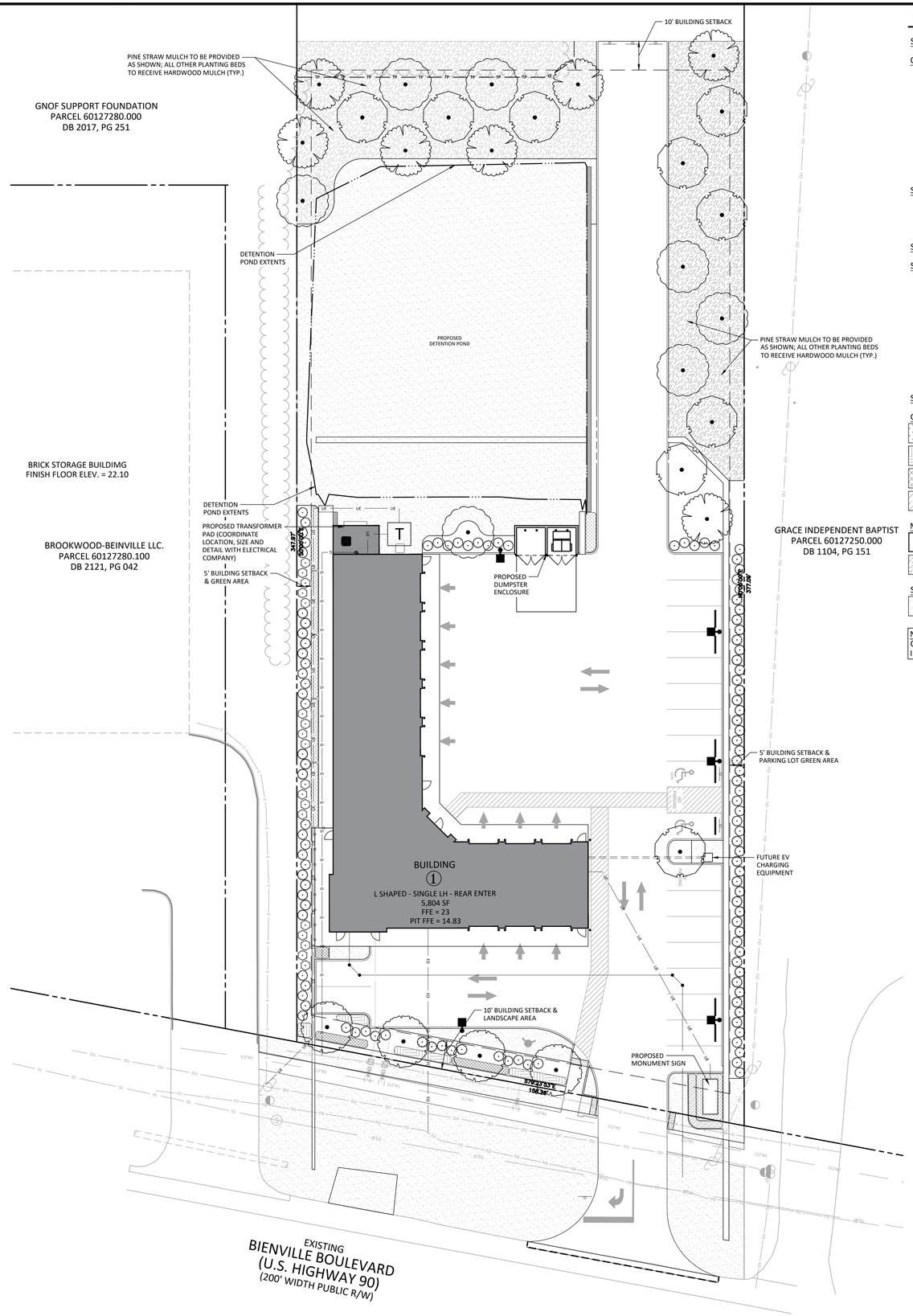
PROJECT NO.	EXO25010
FILENAME	EXO25010-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	6/26/2026

SHEET

STANDARD CONSTRUCTION DETAILS

C8.04

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PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL	HEIGHT	REMARKS
CANOPY TREES						
	MGKP	7	MAGNOLIA GRANDIFLORA 'KAY PARRIS' KAY PARRIS SOUTHERN MAGNOLIA	2" MIN	8` MIN	STRONG, CENTRAL LEADER; FULL CANOPY; MATCHED SPECIMENS
	NYSY	9	NYSSA SYLVATICA TUPELO	2" MIN	8` MIN	STRONG, CENTRAL LEADER; FULL CANOPY; MATCHED SPECIMENS
	QULY	7	QUERCUS LYRATA OVERCUP OAK	2" MIN	8` MIN	STRONG, CENTRAL LEADER; FULL CANOPY; MATCHED SPECIMENS
STREET TREE						
	QUPA	4	QUERCUS PALUSTRIS PIN OAK	2" MIN	8` MIN	STRONG, CENTRAL LEADER; FULL CANOPY; MATCHED SPECIMENS

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT	REMARKS
SHRUBS						
	ABGR	30	ABELIA X GRANDIFLORA GLOSSY ABELIA	3 GAL	18" MIN	FULL TO CONTAINER
	AZAA	18	AZALEA X 'ROBLEG' AUTUMN ANGEL® ENCORE® AZALEA	3 GAL	18" MIN	FULL TO CONTAINER
	IGSH	27	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	3 GAL	18" MIN	FULL TO CONTAINER
	IVNA	29	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	3 GAL	18" MIN	FULL TO CONTAINER
	LCES	29	LOROPETALUM CHINENSE 'SHANG-WHITE' EMERALD SNOW® LOROPETALUM	3 GAL	18" MIN	FULL TO CONTAINER

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	REMARKS
GROUND COVERS						
	LMBB	132	LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LILYTURF	4" POT	18" o.c.	FULL TO CONTAINER
	NATE	78	NASSELLA TENUISSIMA MEXICAN FEATHER GRASS	1 GAL	18" o.c.	FULL TO CONTAINER
	SCSB	57	SCHIZACHYRIUM SCOPARIUM 'BLAZE' BLAZE LITTLE BLUESTEM	1 GAL	18" o.c.	FULL TO CONTAINER
	TRJA	80	TRACHELOSPERMUM JASMINOIDES STAR JASMINE	4" POT	18" o.c.	FULL TO CONTAINER
MULCHED AREA						
	MULCH	4,473 SF	HARDWOOD MULCH	-		DOUBLE-SHREDDED, NATURAL COLOR, NOT DYED; PROVIDE IN ALL PLANTING BEDS UNLESS OTHERWISE NOTED
	MULCH2	8,374 SF	PINE STRAW MULCH	-		PROVIDE ONLY WHERE NOTED
SOD						
	SOD	20,202 SF	EREMOCHLOA OPHIUROIDES CENTIPEDE SOD	SOD		

NOTE:
CONTRACTOR WILL BE RESPONSIBLE FOR IRRIGATION DESIGN AND INSTALLATION.

EXISTING SITE LEGEND

- EXISTING SANITARY SEWER MANHOLE
- EXISTING UTILITY BOX
- EXISTING POWER POLE
- EXISTING OVERHEAD ELECTRICAL LINE
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING FIBER OPTIC LINE

SITE LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- CURB
- DETENTION POND EXTENTS
- EXISTING TREE LINE
- TREE PROTECTION FENCING
- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW

CITY OF OCEAN SPRINGS REQUIRED PLANTING CALCULATIONS	
ADDRESS: 3701 BIENVILLE BLVD. OCEAN SPRINGS, MS 39564	
PARCEL: 60127260.000 (LOT B)	
ZONING: REGIONAL COMMERCIAL (CH)	
TOTAL LOT AREA: 1.295 AC/56,394 SF	
SITE DEVELOPMENT LANDSCAPE REQUIREMENTS 1 TREE/2,500 SF OF LOT AREA (UDO 4.10.5A1) REQUIRED LANDSCAPE AREA SHALL NOT BE LESS THAN 15% OF TOTAL AREA (UDO 4.10.5A1)	
REQUIRED LANDSCAPED AREA: 56,394 SF * 15%	8,459.1 SF
PROVIDED LANDSCAPED AREA:	8,459.1 SF
REQUIRED TREES: 56,394 SF / 2,500 SF * 1 TREE	23 TREES
PROVIDED TREES:	23 TREES
NOTE: 50% OF REQUIRED TREES SHALL BE SHADE TREES (UDO 4.10.5A1)	
STREET TREE CALCULATIONS	
BIENVILLE BLVD. REQUIRED TREES: 159 LF / 40 LF * 1 TREE	4 TREES
BIENVILLE BLVD. PROVIDED TREES:	4 TREES
NOTE: TREE SPACING MAY RANGE FROM 15' TO 40' APART DEPENDING UPON WIDTH OF LOT. NO GAP IN THE STREE TREE SPACING GREATER THAN 40' IS ALLOWED. (UDO 4.12.4A3)	
PARKING LOT LANDSCAPING AN APPROVED GREEN AREA OF NO LESS THAN TREE FEET IN WIDTH SHALL BE REQUIRED BETWEEN VEHICULAR USE AREAS AND ALL LOT LINES (UDO 4.10.5A4)	

811 Know what's below. Call before you dig.

GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

CONTRACTOR SHALL NOTIFY "MS811" (811) OR (1-800-227-6477) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "MS811".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

SEE SHEET C0.02 FOR ALL PROJECT, SITE, GRADING, DEMOLITION, EROSION CONTROL, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF OCEAN SPRINGS ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

McADAMS
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REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

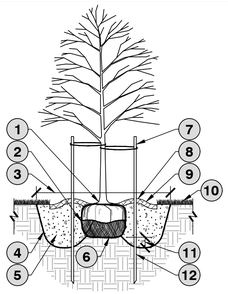
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FILENAME	EXO25010-LS1
CHECKED BY	DLL + ASB
DRAWN BY	CAB
SCALE	1" = 20'
DATE	02-27-2026

SHEET

CODE LANDSCAPE PLAN

L5.00

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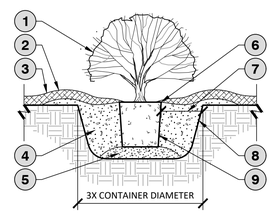
1. TRUNK FLARE AND TOP OF ROOT BALL SHOULD BE 2" ABOVE FINISHED GRADE AFTER SETTLING
2. CUT BURLAP, ROPE AND WIRE BASKET AWAY FROM TOP AND SIDES OF ROOT BALL AND REMOVE DURING BACKFILL PROCESS. IF USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUR OF THE OUTER LAYER OF POTTING SOIL; CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
3. WIDTH OF PLANTING HOLE SHALL BE 3 TIMES THE ROOT BALL DIAMETER IN HIGHLY COMPACTED OR CLAY SOIL; 2 TIMES THE ROOT BALL DIAMETER MINIMUM IN ALL OTHERS
4. DIG WIDE PLANTING HOLE WITH TAPERED SIDES.
5. TO STABILIZE, COMPACT THE PLANTING SOIL MIX BACKFILL AROUND ROOT BALL; COMPACT SOIL BY SOAKING WITH WATER AND OR LIGHTLY HAND TAMPING.
6. SET ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLING.
7. IF STAKING IS NECESSARY, USE TWO OPPOSING STAKES WITH SEPARATE FLEXIBLE TIES. REMOVE STAKING AT END OF FIRST GROWING SEASON.
8. 4" RAISED RING OF SOIL TO DIRECT WATER INTO ROOT BALL - ESPECIALLY IMPORTANT IF TOP OF ROOT BALL IS RAISED ABOVE GRADE
9. 3" BARK MULCH; DO NOT PLACE MULCH WITHIN 12" OF TREE TRUNK.
10. FINAL GRADE
11. 5"-7" DEEPER THAN ROOT BALL FOR LOWERED PLANTING HOLE AS NEEDED WITH POOR DRAINAGE
12. EXTEND STAKES INTO 24" OF UNDISTURBED SOIL.

NOTES:

1. SELECT TREES THAT HAVE: STRONG CENTRAL LEADER; CROWN WITH FULL FOLIAGE; GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.
2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, SOAK HOLE TO CONFIRM WATER FILTERS THROUGH UNDISTURBED SOIL. DESIGN ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED.
3. A SOIL EXPERT CAN BE CONSULTED TO HELP MODIFY AND FERTILIZE TOPSOIL TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC TREE SPECIES.
4. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.

1 TREE PLANTING

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



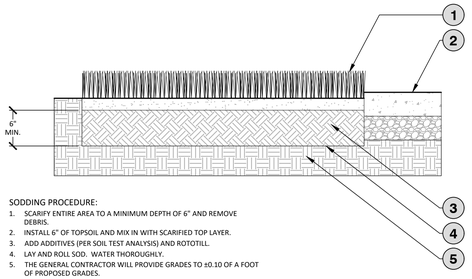
1. PRUNE PROPORTIONALLY TO COMPENSATE FOR REDUCTION OF ROOTS AND TO PROMOTE NATURAL GROWTH CHARACTER.
2. FORM 2" DEEP SAUCER
3. 3" BARK MULCH; DO NOT PLACE MULCH WITHIN 3" OF TRUNK/STEM
4. PLANTING SOIL MIX BACKFILL TO BE COMPACTED BY SOAKING WITH WATER AND OR LIGHTLY HAND TAMPED
5. PLANTING SOIL MIX TO BE TAMPED TO AVOID SETTLING
6. TOP OF ROOTBALL SHALL BE 1" HIGHER THAN ADJACENT FINISHED GRADE
7. 6" MIN. GAP BETWEEN ROOT BALL AND UNDISTURBED SOIL. WHERE THERE IS HEAVY CLAY SOIL, THE HOLE SHOULD BE 3 TIMES THE CONTAINER DIAMETER.
8. SUBSOIL BROKEN WITH PICK ON SIDES AND BOTTOM OF HOLE
9. FOR CONTAINERS, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER. IF USING BALED AND BURLAP; CUT BURLAP, ROPE AND WIRE BASKET AWAY FROM TOP AND SIDES OF ROOT BALL AND REMOVE DURING BACKFILL PROCESS.

NOTES:

1. SELECT SHRUBS THAT MEET THE SPECIFIED HEIGHT IN THE PLANT SCHEDULE, MEASURED PER THE AMERICAN STANDARD FOR NURSERY STOCK METHODS; PEST AND DISEASE FREE; CROWN WITH FULL FOLIAGE; GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.
2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, SOAK HOLE TO CONFIRM WATER FILTERS THROUGH UNDISTURBED SOIL. DESIGN ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED.
3. A SOIL EXPERT CAN BE CONSULTED TO HELP MODIFY AND FERTILIZE TOPSOIL TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC PLANT SPECIES.
4. THOROUGHLY SOAK THE SHRUB ROOT BALLS AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.

2 SHRUB PLANTING

SCALE: 1/2" = 1'-0"



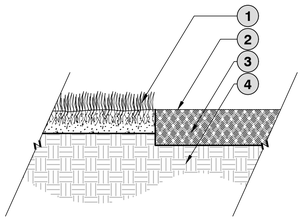
SODDING PROCEDURE:

1. SCARIFY ENTIRE AREA TO A MINIMUM DEPTH OF 6" AND REMOVE DEBRIS.
2. INSTALL 6" OF TOPSOIL AND MIX IN WITH SCARIFIED TOP LAYER.
3. ADD ADDITIVES (PER SOIL TEST ANALYSIS) AND ROTOTILL.
4. LAY AND ROLL SOD. WATER THOROUGHLY.
5. THE GENERAL CONTRACTOR WILL PROVIDE GRADES TO ±0.10 OF A FOOT OF PROPOSED GRADES.

1. SOD - PROVIDE CLEAN, SMOOTH, CONTINUOUS EDGE BETWEEN SOD AND MULCHED AREAS
2. ADJACENT SURFACE (SEE SITE PLANS)
3. PREPARED SUBGRADE
4. BREAK THROUGH AND REMOVE ALL 'HARDPAN' AND DEBRIS TO ALLOW FOR PERCOLATION AND POSITIVE DRAINAGE
5. UNDISTURBED SUBGRADE

3 SOD INSTALLATION

SCALE: 1" = 1'-0"



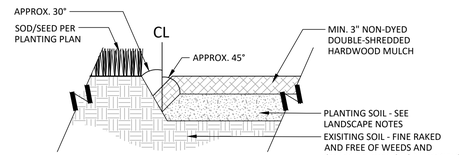
1. SOD - PROVIDE CLEAN, SMOOTH, CONTINUOUS EDGE BETWEEN SOD AND MULCHED AREAS
2. 3" TRIPLE SHREDDED HARDWOOD MULCH
3. COMPLETELY REMOVE EXISTING SOD/GROUNDCOVER AS REQUIRED PRIOR TO PLACING MULCH
4. EXISTING SOIL - FINE RAKED AND FREE OF WEEDS AND OTHER DELETERIOUS MATERIALS

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROCURING SUFFICIENT QUANTITIES OF TRIPLE SHREDDED HARDWOOD MULCH TO ACHIEVE THE SPECIFIED FINAL GRADE OF PLANTING AREAS.
2. HARDWOOD MULCH SHALL BE FREE OF DEBRIS, SOIL, AND CONTAMINATES BEFORE INSTALLATION.
3. PLANTING AREAS TO BE FREE FROM DEBRIS, INCLUDING WEEDS, STONES, AND TRASH, BEFORE INSTALLING HARDWOOD MULCH.
4. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF UNSUITABLE AND/OR SURPLUS MATERIALS FROM THE SITE.

4 HARDWOOD MULCH SURFACE

SCALE: 2" = 1'-0"

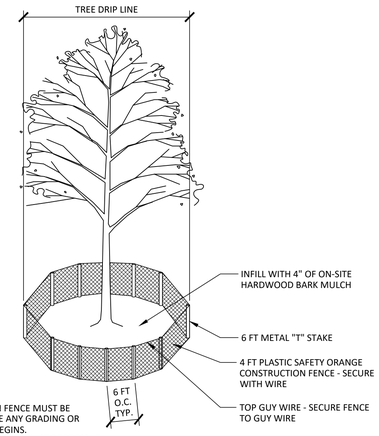


NOTES:

1. EXCAVATE TRENCH BY HAND WITH SPADE.
2. ADD EXCESS SOIL TO ADJACENT PLANT BE AFTER PULLING BACK EXISTING MULCH.
3. RAKE SOIL AND SMOOTH BEFORE MULCHING.

5 PLANTING BED EDGE

SCALE: 1" = 1'-0"



NOTES:

1. TREE PROTECTION FENCE MUST BE INSTALLED BEFORE ANY GRADING OR CONSTRUCTION BEGINS.
2. LANDSCAPE ARCHITECT MUST BE PRESENT WHEN ANY WORK IS DONE WITHIN THE TREE PROTECTION FENCE.

6 TREE PROTECTION FENCING

SCALE: NTS

GENERAL LANDSCAPE NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF OCEAN SPRINGS AND THE STATE OF MISSISSIPPI STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR INSTALLATION.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
5. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING BUILDINGS, GRADING, WALLS, ETC., REFER TO ARCHITECTURE, SITE AND GRADING PLANS.
7. VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
8. CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
11. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
12. ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
13. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS.
14. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
15. PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
16. PROPOSED TREES TO BE PLANTED A MINIMUM 5 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
17. CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS UNLESS WAIVED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS.
18. TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CINDERS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIAL.
19. LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD PLANTING SOIL MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
20. IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE SOIL PROFILES.
21. PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
22. ALL TREE PLANTINGS SHALL BE MULCHED TO A DEPTH OF 3 INCHES, AND WITH A MINIMUM 3 FOOT RADIUS FROM BASE OF TREE OR TO DRIPLINE. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
23. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
24. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
25. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.
26. EXCAVATE EDGES OF ALL PLANTING BEDS TO 2 INCH DEPTH TO FORM A NEAT AND CRISP DEFINITION.
27. CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
28. REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
29. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.

McADAMS

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4400 State Highway 121, Suite 800
Lewisville, Texas 75056

phone 972. 436. 9712
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CLIENT

JUSTIN DUCK
1880 SOUTHPARK DRIVE
BIRMINGHAM, AL 35244
PHONE: 501. 840. 0001

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EXPRESS OIL
OCEAN SPRINGS, MS
CONSTRUCTION DRAWINGS
EAST OF 3701 BIENVILLE BLVD
OCEAN SPRINGS, MS, 39564

THIS DOCUMENT IS RELEASED ON 6/26/2026 FOR THE PURPOSE OF OBTAINING PRELIMINARY BID NUMBERS, AND ARE NOT APPROVED FOR PERMITTING OR CONSTRUCTION.

UNDER THE AUTHORITY OF NORMAN RAY WATSON, JR. LICENSE #14548 IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

FINAL SIGNED AND SEALED PLANS SHALL BE ISSUED PRIOR TO THE RELEASE FOR CONSTRUCTION.

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

PLAN INFORMATION

PROJECT NO.	EXO25010
FILENAME	EXO25010-LS1
CHECKED BY	DLL + ASB
DRAWN BY	CAB
SCALE	AS SHOWN
DATE	02-27-2026

SHEET

CODE LANDSCAPE DETAILS & NOTES

L5.01

ISSUE FOR BID - NOT RELEASED FOR CONSTRUCTION

Z:\2Dwe\Projects\EXO\EXO25010\04-Production\Engineering\Current Drawing\Sheets\EXO25010-LS1.dwg, 6/26/2026 4:05:54 PM, Keaton Zachary

EXPRESS OIL CHANGE & TIRE ENGINEERS

L-SHAPED / RIGHT HAND OIL CHANGE / FRONT ENTER

BIENVILLE BLVD

OCEAN SPRINGS, MISSISSIPPI 39564

ATTENTION AUTHORITY HAVING JURISDICTION

Notice is hereby given that Aho Architects, a sole proprietorship, the Architect of Record on the above referenced project, will be providing construction administration services on a limited basis, supplemented by a third-party independent engineering consulting service as described below.

This project has been designed by the Architect and Engineers ("Design Team") for its specific location, or adapted from prototypical designs, to comply with the following codes, ordinances, and similar requirements adopted by the Authority Having Jurisdiction ("AHJ"):

- **See codes listed on Sheet LS100.**

During the Construction Administration Phase of the Project:

- General: The Design Team will respond to inquiries or requests from the Owner or Contractor, specifically related to documents prepared by the Design Team. As is standard in Construction Law and Professional Service Agreements, the Design Team shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Project(s), nor shall the Architect be responsible for the Owner's or Contractor's failure to perform the work in accordance with the requirements of the Permit Set Documents. The Architect shall be responsible for the Architect's negligent acts or omissions, but shall not have control over or charge of, and shall not be responsible for, acts or omissions of the Owner, Contractor, or of any other persons or entities performing portions of the work.
- Experienced Contractor: The Owner will use experienced and licensed Contractors familiar with the construction of Projects of this type and in similar locations, and experienced with the applicable building codes, selection of materials and systems, and methods of installation and construction; and able to implement the Permit Set Documents through completion of the Project(s).
- Submittals: The Design Team's Basic Construction Administration Services include review of critical submittals (e.g. shop drawings) by engineering disciplines (Structural). The Design Team shall also review, approve or take other appropriate action on any submittal for which the AHJ requires approval by the Architect/Engineer, as Additional Services.
- Site Visits: The Architect and Design Engineers typically will not be making any site visits unless specifically required to do so.
  - The Owner has been advised and acknowledges that some States and AHJs require the Architect to perform at least some site visits or provide a notice such as this statement.
  - In consideration of this, the Owner will provide site visits, observation, testing, and related work by a third party independent engineering consulting service:
    - The Owner has an agreement with ECS Southeast, LLC, a provider of geotechnical, environmental, construction materials and facilities engineering
    - Experienced Professional Engineers or field technicians under the responsible control of a Professional Engineer will perform site observation, construction materials testing, and required Special Inspections (per IBC Chapter 17; see Schedule of Special Inspections on structural drawings provided) including review of construction for conformance with the permit drawings, supplemental drawings, shop drawings/submittals, and similar relevant documents. Written reports shall be provided, with the Design Team included on the distribution list and involved in resolving any deficiencies noted or other items requiring the Design Team's input.
  - If the above provisions are not acceptable to the AHJ and the AHJ gives notice requiring the Architect to make site visit(s), the Owner has agreed to authorize the Architect's Additional Services and Reimbursable Expenses to comply with the AHJ's requirements.

If you have any questions, or if there is anything else we can do for you, please do not hesitate to contact April Cain, the project manager or Tim Aho, Architect at the address/phone listed below, or by email at HYPERLINK "mailto:acain@ahoarch.com" acain@ahoarch.com or HYPERLINK "mailto:taho@ahoarch.com" taho@ahoarch.com . Thank you very much, and we appreciate the opportunity to be involved in this project in your jurisdiction.



Note:

Owner responsible for reviewing all non-structural submittals / shop drawings.GC shall send the following submittals / shop drawings to the Structural Engineer for review:

Structural Steel (not including stairs)
Bar Joist
Rebar
Metal Deck
Concrete Mix Design

Note:

Full Exterior Wall mock-up required for Owner's Approval, prior to ordering materials. No exceptions.

*Image is generic. See Civil for actual site conditions.

**See Material Schedule & Finish Schedule for Additonal Items for actual paint/material colors.

ARCHITECT

AHO ARCHITECTS, A SOLE PROPRIETORSHIP
1855 DATA DRIVE, SUITE 150
HOOVER, ALABAMA 35244
205-983-6000

CIVIL ENGINEER

McADAMS
THE JOHN R. McADAMS COMPANY, INC.
4400 STATE HIGHWAY 121, SUITE 800
LEWISVILLE, TEXAS 75056

STRUCTURAL ENGINEER

JOHN JONES, PE, SE
125 18TH STREET NORTH
PELL CITY, ALABAMA 35125
205-884-5334

MECHANICAL / PLUMBING ENGINEER

PINNACLE ENGINEERING, INC.
2031 SHADY CREST DRIVE
HOOVER, ALABAMA 35216
205 733-6912

ELECTRICAL ENGINEER

GIDEON WAMAE, PE
4120 OVERLOOK CIRCLE
TRUSSVILLE, ALABAMA 35173
205 413-4112

FINAL

AHO ARCHITECTS
a sole proprietorship
www.ahoarch.com

REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers
L-Shaped / Right Hand Oil Change / Front Enter
Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Title Sheet

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

T100

Scale 12" = 1'-0"

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SUMMARY OF CHANGES

PROTOTYPE CHANGES

NO.	DESCRIPTION	NO.	DESCRIPTION
1	HVAC / Meter Screening		
2	All glass overhead doors		
3	Coastal materials		

ISSUE FOR PERMIT CHANGES

ISSUED	REVISION #	DESCRIPTION	REVISED SHEETS	ISSUED	REVISION #	DESCRIPTION	REVISED SHEETS
1	IFP - 0	Issued for Permit	None				

ISSUE FOR BID CHANGES

ISSUED	REVISION #	DESCRIPTION	REVISED SHEETS	ISSUED	REVISION #	DESCRIPTION	REVISED SHEETS
			None				

ISSUE FOR CONSTRUCTION CHANGES

ISSUED	REVISION #	DESCRIPTION	REVISED SHEETS	ISSUED	REVISION #	DESCRIPTION	REVISED SHEETS

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Summary of Changes

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	ARC

G100

Scale 12" = 1'-0"

6/19/2026 2:32:11 PM

GENERAL PROJECT NOTES

1. These documents are considered accurate and true to the best knowledge of the Architect at this time, but do not necessarily represent, nor are they intended to represent, actual existing conditions, dimensions, and tolerances. Contractor shall field-verify existing conditions including, but not limited to materials, construction, elevations, and dimensions prior to bidding and undertaking the work. Items of concern shall be brought to the attention of the Architect. Submittal of a proposal (bid) by a Contractor and their Subcontractors shall constitute an acknowledgement and confirmation of having complied with these requirements.
2. All work shall comply with all applicable local, state, and national codes, rules, ordinances and regulations and authorities having jurisdiction.
3. The Contractor shall comply with all applicable provisions of the specifications, including, but not limited to all general conditions, supplementary general conditions, special conditions, and material and construction provisions, which apply to materials or construction methods required by this project.
4. Where warranties are concerned, Contractor shall follow manufacturer's standards and recommendations unless specifically directed otherwise. Any conditions which might negatively affect the warranty shall be brought to the attention of the Architect in advance.
5. The Owner and Contractor shall promptly report to the Architect any defects, suspected defects, or discrepancies in the Architect 's work or services of which the Owner or Contractor may become aware, so that the Architect may take measures to minimize the consequences of such a defect. Failure to notify the Architect shall relieve the Architect of costs of remedying the defects above the sum such remedy would have cost had prompt notification been given.
6. Neither the professional activities of the Architect, nor the presence of the Architect or its employees and consultants at a construction site shall relieve the Contractor or others of their obligations, duties, and responsibilities including, but not limited to: construction means and methods, sequence, techniques, or procedures necessary for performing, superintending, or coordinating all portions of the work in accordance with the contract documents and any health and safety precautions required by agencies having jurisdictional authority over the project. The Architect and its personnel have no authority to exercise control over any Contractor or other entity or their employees in connection with their means, methods, or safety precautions. The Contractor is solely responsible for jobsite safety. The Owner, Architect, and their Consultants shall be indemnified and shall be made additional insureds under the Contractor 's general liability insurance policy.
7. All work, unless specifically indicated otherwise, shall be the responsibility of the General Contractor and shall be performed by the tradesmen skilled in the required field.
8. "Provide" shall mean to furnish and install, complete and ready for intended use.
9. Provide pressure treated wood where in contact with concrete or masonry.
10. The Contractor shall be responsible for all cutting, fitting, and patching that may be required to complete the work.
11. Dimensions of existing construction and repetitive dimensions are sometimes omitted. Detailed dimensions not indicated may be found on large-scale drawings of the same areas. Drawings are intended to reflect the existing conditions as closely as possible, however, the Contractor shall field verify and accept all existing conditions and dimensions. Notify Architect of any discrepancies affecting the work.
12. Provide all temporary services required to facilitate the work indicated, including but not limited to the following: power, lighting, heat, and water.
13. The Contractor(s) shall provide all barriers, shoring, warning lights, etc. as required to conduct the work and maintain the site in a safe condition consistent with good construction practices and with all applicable rules and regulations.
14. All exist. utility services including domestic water, sanitary sewer, electricity, fuel oil and/or gas shall be disconnected and made safe prior to any demolition work. Any work which might require interruption of utility services to Owner or other tenants, shall be approved and coordinated beforehand with the Owner.
15. It is the intent of the bid and construction documents to indicate complete and fully operational systems (i.e. structural, HVAC, plumbing, electrical, roofing, etc.). The Contractor shall provide operational systems and testing which comply with applicable codes, regulations, and requirements of authorities having jurisdiction.
16. Any work or utility outages which might disrupt the operations of the Owner or others shall be approved and coordinated in advance with the Owner and the Architect. The Contractor shall give the Owner and Architect at least three days advance notice prior to undertaking work which might cause disruption. Activities which produce utility outages, excessive noise, dust and other disruption shall be coordinated with the Owner and Architect. Some of these activities may need to occur at "off hours" to minimize disruption of the Owner's operations.
17. All wood blocking, trim, decking, etc. shall be decay-resistant treated, or as specified.
18. To prepare substrate for all wall mounted items, wall fixture, toilet accessories, etc. - fill all voids in the CMU surface to provide a sound base (provide blocking in stud walls) for all new wall mounted items, fixtures, etc. Install per manufacturer's specifications and recommendations.
19. Do not paint any caulking or sealants which are subject to movement. Control joints shall be caulked after paint and special coating applications. Provide caulking or sealants in colors which match adjacent finished surface as approved by the Architect.
20. Bidders shall be responsible for obtaining a copy of the Geotech Report from the Owner.
21. The project may include some items that are delegated design. Bidders shall ensure these items are covered in their base bid.
22. All questions that affect cost, time, etc. shall be presented in the form of RFI's to the Architect prior to bid.

ENERGY CODE EXEMPTION

Per 2018 International Energy Conservation Code:

C402.1.1 Low Energy Buildings. The following low-energy buildings, or portions thereof, separated from the remainder of the building by building thermal envelope assemblies complying with this section, shall be exempt from the building thermal envelope provisions of Section C402:

1. Those with a peak design rate of energy usage less than 3.4 Btu/h x ft2 or 1.0 watt/ft2 of floor area for space conditioning purposes.
2. Those that do not contain "conditioned space".
3. Greenhouses

Per Chapter 2:
Definition of Conditioned Space: An area, room or space that is **enclosed** within the building thermal envelope and is directly or indirectly heated or cooled. Spaces are indirectly heated or cooled where they communicate through openings with conditioned spaces, where they are separated from conditioned spaces by uninsulated walls, floors, or ceilings, or where they contain uninsulated ducts, piping or other sources of heating or cooling.

While the Oil Change & Service areas do have radiant heaters, during normal operations, the Oil Change, Service, and Pit areas are **not enclosed** and are outside the building thermal envelope assembly. These areas are separated from the remainder of the building by building thermal envelope assemblies complying with this code. Section C403.12.1 allows radiant heating outside the building. Therefore, these areas shall be exempt from the building thermal envelope provisions of this code.

GENERAL ACCESSIBILITY NOTES

1. All door hardware shall be accessible type per section 404 of the 2010 ADA Standards.
2. All walking surfaces shall have a maximum slope of 1:20 per section 405 of the 2010 ADA Standards
3. All floor or ground surfaces shall be stable, firm, and slip resistant per section 302 of the 2010 ADA Standards
4. Changes in level of 1/4" high maximum shall be permitted to be vertical per section 303 of the 2010 ADA Standards
5. Provide maneuvering clearances at manual swinging doors per section 404 of the 2010 ADA Standards
6. ADA mounting heights, dimensions, tolerances, etc. shall apply to all construction and the location of all fixtures, etc. unless specifically noted otherwise.

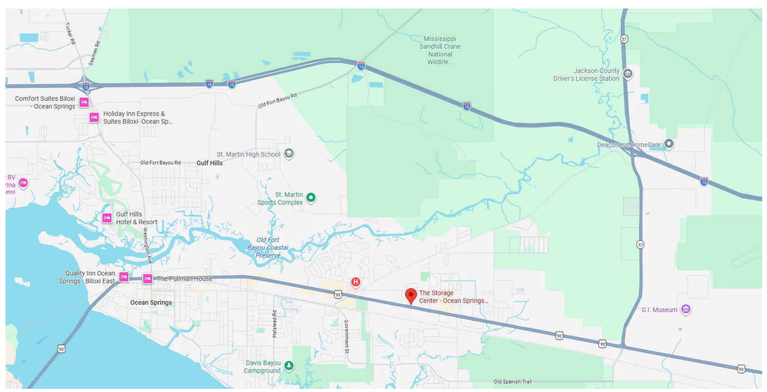
GENERAL INTERIOR NOTES

1. Quantities (area, perimeter, etc.) shown on finish schedule are approximate and are provided as a convenience to the Contractor. Actual quantities may vary and it is the responsibility of the Contractor to field verify.
2. Anything specified with a directional pattern (e.g. brushed aluminum, wood grain laminate, etc.) the pattern shall go in the same direction as directed by Architect.
3. The Contractor shall provide all necessary blocking in walls for support of all equipment, shelving, accessories, grab bars, wall hung lavatories, and other required elements.
4. Provide pressure treated wood where in contact with concrete or masonry.
5. Ease all edges on casework to prevent sharp corners.
6. Paint all HVAC wall grilles to match adjacent surface color unless otherwise noted or instructed by the Architect.
7. Use moisture resistant gypsum board at all walls subject to moisture unless wall will be subject to standing water or frequent wetting in which case you shall use cementitious backer.
8. Provide thresholds where required. All shall be ADA compliant.
9. All gypsum board to have a level 4 finish unless otherwise indicated.

BIDDING INQUIRES

Company: Express Oil Change
Contact: Chris Plummer
E-Mail: chris.plummer@expressoil.com
Phone: 205-945-1771

Note: Sub-contractors to call bidding General Contractor for questions



Express Oil Change & Tire Engineers
Bienville Blvd.
Ocean Springs, Mississippi 39564

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers
L-Shaped / Right Hand Oil Change / Front Enter
Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFB-0	Issued for Bid	06/15/2026

2026
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General Information

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

G101

Scale 12" = 1'-0"

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GENERAL NOTES

1. **GENERAL CONTRACTOR SHALL ENSURE EACH OF THE FOLLOWING HAVE BEEN REVIEWED BY THE MANUFACTURER FOR COMPLIANCE WITH LOCAL CONDITIONS/REQUIREMENTS PRIOR TO BIDDING/ORDERING/INSTALLING: ROOFING, DOORS, WINDOWS/STOREFRONT, GLAZING, DOOR HARDWARE, PAINT, AND FIRE EXTINGUISHERS.**
2. **GENERAL CONTRACTOR SHALL PROVIDE SUBMITTALS / SHOP DRAWINGS FOR EACH PRODUCT LISTED UNDER ARCHITECTURAL SPECIFICATIONS. ALL SUBMITTALS / SHOP DRAWINGS ARE TO BE APPROVED BY THE OWNER AND/OR THE A/E PRIOR TO ORDERING.**
3. **PROVIDE MANUFACTURER'S STANDARD WARRANTY FOR ALL SPECIFIED PRODUCTS.**
4. **ALL EXTERIOR SIGNAGE AND SCONCES BY OTHERS.**
5. **ALL FURNITURE AND EQUIPMENT BY OTHERS. COORDINATE PLACEMENT WITH OWNER PRIOR TO ROUGHING IN REQUIRED UTILITIES.**
6. **ALL COMPARABLE PRODUCTS TO BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO BID.**
7. **GC SHALL BE RESPONSIBLE FOR CHECKING WITH THE LOCAL AHJ ON ANY DEFERRED SUBMITTALS THAT MAY BE REQUIRED TO BE APPROVED BY THE AHJ PRIOR TO CONSTRUCTION.**

DIVISION 4 - MASONRY

042200 - Concrete Unit Masonry

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Echelon, An Oldcastle Company or a comparable product by an approved manufacturer.

Products

A. Concrete Masonry Units
1. Finish: Smooth and split-face
2. Min. Compressive Strength: See Structural
3. Density Classification: See Structural
4. Provide types, shapes and sizes as indicated
5. Integral Water Repellent: Provide RainBloc 80 by ACM Chemistries or a comparable product by an approved manufacturer.

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Best Block or an approved comparable product by an approved manufacturer.

Products

B. Concrete Masonry Units
1. Finish: Textured Face 3 Score Block
2. Min. Compressive Strength: See Structural
3. Density Classification: See Structural
4. Provide types, shapes and sizes as indicated
5. Integral Water Repellent: Provide RainBloc 80 by ACM Chemistries or a comparable product by an approved manufacturer.

*Provide full mock-up for Owner's Approval prior to ordering.

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Argos or an approved comparable product by an approved manufacturer.

Products

C. Mortar
1. Type: See Structural
2. Color: Standard Gray.
3. Liquid Mortar Additive: Provide RainBloc for Mortar or a comparable product by an approved manufacturer.

Subject to compliance with requirements, provide products indicated below:

Products

D. Joint Reinforcement
1. Type: Hot dipped galvanized, carbon steel (truss)
2. Size: 0.187" diameter
3. Length: Not less than 10'

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Mortar Net Solutions or an approved comparable products by an approved manufacturer.

Subject to compliance with requirements, provide products indicated below:

E. Single Wythe Concrete Masonry Unit Drainage System
1. BlockFlash

DIVISION 5 - METALS

051200 Structural Steel Framing

Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

A. Products:
1. Structural-Steel Materials:
   a. Cold-Formed Hollow Structural Sections: ASTM A 500/A 500M, Grade C, structural tubing.
   b. Welding Electrodes: Comply with AWS requirements
   c. Shapes: See Details for member shapes and sizes.
2. Bolts, Connectors and Anchors
   a. High Strength Bolts, Nuts and Washers: ASTM F 3125/F 3125 M, Grade A325, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH heavy-hex carbon steel nuts; and ASTM F 436/F 436M, Type 1, hardened carbon-steel washers; all with plain finish.
3. Primer
   a. Primer: SSPC -Paint 25, Type I, zinc oxide, alkyd, linseed oil primer.

B. Fabrication
1. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," and to AISC 360.
   a. Fabricate beams with rolling camber up.
   b. Mark and match-mark materials for field assembly.
   c. Complete structural-steel assemblies, including welding of unit, before starting shop-priming operations.
2. Bolt Holes: Cut, drill or punch standard bolt holes perpendicular to metal surfaces.
3. Finishing: Accurately finish ends of tubes and other members transmitting bearing loads.
4. Holes: Provide holes required for securing other work to structural steel and for other work to pass through members.
   a. Cut drill or punch holes perpendicular to steel surfaces. Do not thermally cut bolt holes or enlarge holes by burning.
   b. Weld threaded nuts to framing and other specialty items indicated to receive other work.

C. Shop Connections
1. Weld connections: Comply with AWS D1.1 / D1.1M for tolerances, appearances, welding procedure specifications, weld quality and methods used in correcting welding work.

D. Shop Priming
1. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
   a. SSPC-SP2, "Hand Tool Cleaning"

051200 Structural Steel Framing (continued):

D. Shop Priming
2. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners and edges and exposed surfaces.
3. Prepare steel and apply a one-coat, nonasphaltic primer complying with SSPC-PS Guide 7.00, " Painting System Guide 7.00: Guide for Selecting One-Coat Shop Painting Systems," to provide a dry film thickness of not less than 1.5 mils

053100- Steel Decking

[Please note: This steel decking specification is for the entrancy canopy roof decking only. See Structural drawings for the building roof deck specifications.]

Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

Products:

A. Roof Deck: Fabricate panels, without top-flange stiffening grooves, to comply with "SDI Specifications and Commentary for Steel Roof Deck" in SDI Publications No. 31, and with the following:
1. Galvanized and Shop-Primed Steel Sheet: ASTM A 653/A 653M, Structural Steel (SS), G60 zinc coating; cleaned, pretreated, and primed with manufacturer's standard baked-on, rust-inhibitive primer.
   a. Finish Color: as indicated on Finish Schedule
2. Deck Profile: Type WR, wide rib
4. Profile Depth: 1-1/2 inches
5. Design Thickness: Galvanized Steel Thickness: **0.0299 inch** (22 gauge)

B. Accessories:
1. General: Provide manufacturer's standard accessory materials for deck that comply with requirements indicated.
2. Mechanical Fasteners: Corrosion-resistant, low-velocity, power-actuated or pneumatically driven carbon-steel fasteners; or self-drilling, self-threading screws.
3. Side-Lap Fasteners: Corrosion-resistant, hexagonal washer head; self-drilling, carbon-steel screws, No. 10 minimum diameter.
4. Flexible Closure Strips: Vulcanized, closed-cell, synthetic rubber.

C. Installation:
1. Install deck panels and accessories according to applicable specifications and commentary in SDI Publication No. 31, manufacturer's written instructions, and requirements in this Section.
2. Place deck panels flat and square and fasten to supporting frame without warp or deflection.
3. Provide additional reinforcement and closure pieces at openings as required for strength, continuity of deck, and support of other work.
4. Comply with AWS requirements and procedures for manual shielded metal arc welding, appearance and quality of welds, and methods used for correcting welding work.
5. Mechanical fasteners may be used in lieu of welding to fasten deck. Locate mechanical fasteners and install according to deck manufacturer's written instructions.

055000- Metal Fabrications

Products:

A. Concrete-filled Steel Pipe Bollards
1. Material: Schedule 40 steel pipe
2. Height: 3'-6"
3. Diameter: 4"
4. Finish: Painted (See Finish Schedule)

Installation:
See drawings for installation details.

055113- Metal Pan Stairs

Delegated Design: Engage a qualified professional engineer to design stairs and railings and provide sealed calculations and drawings.

Products:

A. Metal Pan Stairs
1. Steel Sheet Thickness: 0.067" minimum
2. Uniform Load: 100 lbf/sf
3. Concentrated Load: 300 lbf applied on an area of 4 sq. in.
4. Finish: Painted (See Finish Schedule)
5. Uniform and concentrated loads need not be assumed to act concurrently.
6. Stair Framing: Capable of withstanding stresses resulting from railing loads in addition to loads specified above.

B. Stair Tread Bar Ribbed Abrasive Nosing
1. Basis of Design: Nystrom Model V951
2. Extents: Install Nosing to the full length of steps
3. Color: Safety Yellow
4. Type: Short Nose, Aluminum Extruded Anchor

C. Stair Railings
1. Rails and Posts: 1 5/8" diameter
2. Picket Infill: 1/2" round pickets spaced less than 4 inches clear.

D. Installation: Install per manufacturer's standard written instructions.

E. Warranty: Provide manufacturer's standard material warranty.

055133 - Ladders

Manufacturers:
Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Grainger, or a comparable product by an approved manufacturer:

Product:

A. Fixed Welded-Steel Ladder by Grainger
1. Model F14S C1 Cotterman Fixed (Pit Ladder)
   a. Width: 20 inches
   b. Height: 13 feet

Installation:
Install ladder according to manufacturer's written instructions.

055213- Pipe and Tube Railings

Delegated Design: Engage a qualified professional engineer to design stairs and railings and provide sealed calculations and drawings.

A. Handrails & Top Rails of Guards
1. Rails and Posts: 1 1/2" diameter
2. Uniform Load: 50lbf/ft in any direction.
3. Concentrated Load: 200 lbf applied in any direction
4. Uniform and concentrated loads need not be assumed to act concurrently.
5. Type: F or S
6. Material: Schedule 40
7. Finish: Painted (See Finish Schedule)
8. Seismic Performance: See Structural

B. Infill of Guards
1. Concentrated Load: 50 lbf applied horizontally on an area of 1 SF.
2. Infill load and other loads need not be assumed to act concurrently.

055213- Pipe and Tube Railings (continued):

Installation:
Install stairs and railings according to manufacturers' written instructions and with welded connections.

DIVISION 6 - WOOD, PLASTICS AND COMPOSITES

061000- Rough Carpentry

Products:

A. Framing with Dimensional Lumber (Interior Non-Load-Bearing)
1. Thoroughly Dried
2. No. 2 Southern Yellow Pine or No. 2 Douglas Fir
3. Of sizes, shapes, and lengths required.
4. Moisture content shall not exceed 19% at time of installation

B. Miscellaneous Lumber (e.g. Blocking, Furring, etc.)
1. Thoroughly Dried
2. No. 2 Southern Yellow Pine or No. 2 Douglas Fir
3. Of sizes, shapes, and lengths required.
4. Moisture content shall not exceed 19% at time of installation

C. Temporary Bracing, Shoring, etc. as required
1. Thoroughly Dried
2. No. 2 Southern Yellow Pine or No. 2 Douglas Fir
3. Of sizes, shapes, and lengths required.
4. Moisture content shall not exceed 19% at time of installation

D. Plywood decking (Platform)
1. Plywood Type: Exposure 1
2. Plywood Grade: BC
3. Thickness: As indicated on drawings
4. Square Edge
5. Class: C Fire Rating
6. Flame Spread Rating 76-200 / Smoke Developed Index <450

E. Plywood decking (Dumpster Roof)
1. Plywood Type: Exposure 1
2. Plywood Grade: BC
3. Thickness: As indicated on drawings
4. Square Edge

Note:
1. All plywood which has any edge or surface permanently exposed to the weather shall be of the exterior type.
2. All wood exposed to weather and/or in contact with masonry or concrete shall be pressure-treated lumber.

061533- Composite Decking

Products

A. Plastic Decking for Dumpster Enclosure Doors
1. Composite plastic lumber
2. Solid shapes made from a mixture of cellulose fiber and polyethylene or polypropylene.
3. Surface Texture: Smooth.
4. Color: See Finish Schedule.
5. Size: See dumpster details.

Installation:
Install plastic decking according to manufacturers' written instructions.

Warranty:
Provide manufacturer's standard material warranty.

066400 Plastic Paneling (Fiberglass Reinforced Panels)

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Marlite Wall Systems, or a comparable product by one of the following:

1. Kal-Lite
2. Crane Composites
3. Panolam

Product Requirements:

A. Provide standard FRP (Fiber Reinforced Plastic) panels in 4' x 8' textured panels.
B. Color: As indicated on the Finish Schedule.
C. Conform to all building code requirements for interior finish for smoke and flame spread requirements tested in accordance with ASTM 84
D. Wall required Rating - Class A

Submittals:
Submit shop drawings (elevations of each wall) showing location of paneling and trim members.

Installation:
A. Install per manufacturer's written standards.

Warranty:
A. Provide manufacturer's standard warranty.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

071900- Water Repellents

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Ghostshield or a comparable product from an approved manufacturer.

Products

A. Water Repellant
1. ISO-Tek 8540
2. Color: Clear

Installation:
Install water repellents according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

072100- Thermal Insulation

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Owens Corning, or a comparable product by one of the following:

1. Johns Manville
2. CertainTeed

Products:

A. Kraft Faced (Vapor Retarder) Batt Insulation:
1. EcoTouch PINK Fiberglass Insulation
2. R-20 & R-38; where indicated

Installation:
Install insulation and accessories according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard material warranty.

072400 Exterior Insulation and Finish System

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Dryvit Systems, Inc, or a comparable product by an approved manufacturer.

Products: Dryvit Systems, Inc., One Energy Way, West Warwick, RI 02893, 800-556-7752, HYPERLINK "http://www.dryvit.com" www.dryvit.com.

A. Molded, (Expanded) Rigid Cellular Polystyrene Board Insulation (Pre-Wrapped / Pre- base coated Architectural Shapes): Comply with ASTM E 2430/M.

Provide pre-coated architectural shapes which include base coat and reinforcing mesh provided.

1. Cornice Shape: Product number 205C166 604
2. Trim: Product number 205T154 604

System Description:

A. The Dryvit Direct Apply is an Exterior Insulation and Finish System (EIFS):
1. Water-resistive barrier membrane (for use at EIFS only): Basis-of-Design: Backstop NTX
2. Adhesive: Basis-of-Design, as per Manufacturer's recommendation: Chemex-Pro. Installed in vertical ribbons to facilitate egress of incidental moisture
3. Rigid expanded polystyrene insulation board.
4. Base Coat (included in pre-coated shapes)
5. Reinforcing Mesh (included in pre-coated shapes)
6. Finish Coat
7. Flashing materials

B. Pre-Installation Requirement: Contractor is to provide a mock-up of EIFS Finish for Owner's approval. This is required. No Exceptions.

C. Installation:
1. Install on clean and dry unpainted brick, concrete or masonry, free of loose material and irregularities in accordance with ASTM C1397 and the Exterior Insulation and Finish System manufacturer's application instructions.
2. Contractor's Option: Install EIFS system using Pre-buck Engineered Framing system for Parapet Cap in lieu of wood framing and plywood as shown in section detail drawing. If using Pre-Buck system, contractor must install per manufacturer's written installation instructions/ requirements.

C. Finish:
1. Freestyle: Fine Texture
2. Color (See Finish Schedule)

Warranty: Provide manufacturer's standard warranty.

072600 Vapor Retarders

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Reef Industries, or a comparable product by an approved manufacturer.

Products:

A. Reinforced Under Slab Vapor Retarder:
1. Griffolyn 10 Mil Green
2. Thickness: 10 mil
3. Max Perm Rating: 0.1 perm
4. Lap: 12" and tape with manufacturer recommended tape

Installation:
Install vapor retarders according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

072726- Fluid-Applied Membrane Air Barrier

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by W.R. Meadows, or a comparable product by an approved manufacturer.

Products:

A. Liquid Membrane Air/Vapor & Liquid Moisture Barrier
1. Air-Shield LMP

Installation:
Install fluid applied membrane air barriers according to manufacturers' written instructions.

Warranty:
Provide manufacturer's standard product warranty.

074113.16- Standing-Seam Metal Roof Panels (Hurricane Zone / Wind Borne Debris Region)

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Berridge Manufacturing Co. or comparable product by an approved manufacturer.

Products:

A. Metal Panel: Cee-Lock (Florida Product Approval FL #11269.2 / TDI # RC-209)

1. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592.
   a. Wind Loads: See Structural.
   b. Other Design Loads: See Structural.
   c. Deflection Limits: See Structural.
2. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft when tested according to ASTM E 1680 and ASTM E 283 at the following test-pressure difference:
   a. Test-Pressure Difference: 6.24 lbf/sq.ft.
3. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E 1646 and ASTM E 331 at the following test-pressure difference:
   a. Test-Pressure Difference: 15 lbf/sq.ft.
4. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.
   a. Uplift Rating: UL 90.
5. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects.
6. Material: Metallic Steel
7. Nominal Thickness: 22 gauge
8. Finish: Two-coat fluoropolymer.
9. Color: See Finish Schedule (verify sample with Owner prior to ordering)
10. Panel Coverage: 16.5 inches
11. Panel Height: 1.5 inches
12. Slope: As indicated

B Substrate / Underlayment
1. 1 1/2" 22 gauge steel decking , 1/2" cover board, two layer of 15# felt

Installation:
Install metal panels, underlayment, vents, and accessories according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard material and product warranties.

075423- Thermoplastic Polyolefin (TPO) Roofing:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Versico or comparable product by an approved manufacturer.

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FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Architectural Specifications

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

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Scale	12" = 1'-0"

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075423- Thermoplastic Polyolefin (TPO) Roofing (continued):

Products:

A. VersiWeld 60 mil TPO fully adhered.

1. ASTM D6878

(Florida Approval Number: FL 14207) Please Note: System must be selected based on design pressures per Structural drawing sheet S0.2.

B. Underlayment: 1/2" Securock Gypsum Fiber Cover Board

C. Polyisocyanurate Insulation

1. Thickness: R-25

Installation:
Install TPO, underlayment, insulation, vents, accessories, etc., according manufacturer's published installation instructions.

Warranty:
Provide 20 Year NDL Manufacturers full system warranty

077100- Roof Specialties (Hurricane Zone)

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Roof Drainage Components & Accessories, Inc. or a comparable product by an approved manufacturer.

Products:

A. Conductor head w/ built-in overflow (alum.): Match downspout color.

B. Downspouts (alum.):
1. Style: Smooth Box Downspout
2. Size: 3"x4"
3. Color: As indicated on Finish Schedule

C. Downspout elbow / boot - Match downspout color

D. Straps
1. Smooth Box Downspout Strap.
2. Color: Match downspout Color.

E. Thru-wall scupper- Match downspout color.
1. Size: 8" wide x 4" high

F. Thru-wall emergency roof scuppers - match downspout color:
1. Size 4" wide x 4" high

077100- Roof Specialties (Hurricane Zone) (continued):

Installation:
Install roof specialties according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard material warranty.

077100- Roof Specialties (Hurricane Zone)

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Drexel Metals or comparable product by an approved manufacturer.

A. Coping Cap
1. Product: Snap Coping-Max C [FL Product Approval #FL22696-R3]
2. 24 gauge w/ kynar finish
3. Color : To be selected from Manufacturer's Full Range of colors
4. Face & Back Dimension: 4 inches minimum (Dumpster Enclosure)
5. Face Dimension: 12 inches minimum (Building)
6. Back Dimension: 8 inches minimum (Building)

Installation:
Install roof specialties according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard material warranty.

078443 - Joint Firestopping

Basis-of-Design Product: For joints in or between Fire-Resistance-Rated Construction: Subject to compliance with requirements, provide products indicated below by Tremco, or a comparable product by one of the following:

1. 3M Fire Protection Products
2. Owens Corning
3. Hilti, Inc.
4. ROCKWOOL

A. **Scope:** Work specified under this Section includes all labor, materials, equipment, services, accessories and coordination as required to furnish and install all firestopping systems including but not limited to, the following:
1. Firestopping sealant, firesafing and material required to render all fire rated assemblies fire and smoke tight in accordance with applicable codes, ordinances and requirments.
2. Penetrations of fire rated materials or assemblies shall be sealed by the trade whose work required the penetration, unless a firestop contractor is designated by the Contractor

B. **System Description/ Design Requirements:**
1. Fire-Rated Construction: Maintain vertical and horizontal barrier, structural floor-ceiling, and roof-ceiling fire resistance ratings at all penetrations, connections with other surfaces or types of construction, at separations required to permit building movement and sound or vibration absorption, and at other construction gaps.
2. Smoke Barrier Construction: Maintain vertical barrier and structural floor resistance to cold smoke at all penetrations, connections with other surfaces and types of construction and at all separations required to permit building movement and sound or vibration absorption, and at other construction gaps.
Provide products that upon curing, do not re-emulsify, dissolve, leach, breakdown or otherwise deteriorate over time from exposure to atmospheric moisture, sweating pipes, ponding water or other forms of moisture.
4. Provide firestop products that do not contain ethylene glycol.
5. Fire resistance rating must be equal to or exceed the fire resistance rating of the wall, floor or roof in or between which it is installed.
6. Exposed Joint firestopping systems must have a flame-spread and smoke-developed index of less than 25 and 450, respectively, as determined per ASTM E84

C. Installation:

1. Firstopping shall be installed at locations where openings are made and where shown or specified in accordance with manufacturer's written instructions, fire test assembly and as indicated on drawings.
2. Firestopping materials shall completely fill all void spaces regardless of of geometric configuration and subject to tolerances established by the manufacturer.
3. Firestopping shall be installed at all piping, electrical conduit and cables,and ductwork penetrating fire rated assemblies and seal holes or voids made by penetrations to ensure an effective fire or fire/smoke barrier. Fire dampster in ducts and penetrations of fire resistance rated construction shall be furnished and installed in accordance with the requirements in Mechanical Sections.

078443 - Joint Firestopping (continued)

C. Installation:

4. Identify joint firestopping systems with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of joint edge so labels are visible to anyone seeking to remove joint firestopping system. Include the following on the labels:

a. "Warning - Joint Firestopping - Do NOT Disturb. Notify Building Management of Any Damage."
b. Contractor's name, address and phone number.
c. Designation of applicable testing agency
d. Date of Installation
e. Manufacturer's name
f. Installer's name

D. Warranty: Provide manufacturers' standard product warranty.

079200- Joint Sealants

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Tremco, or a comparable product by one of the following:

1. BASF Building Systems
2. Pecora Corporation
3. Dow Corning Corp.

Products:

A. Silicone (for use around plumbing fixtures and around glazing):
1. Spectrem 2
2. Color: Clear

B. Urethane (for use at masonry, control joints, and rough openings)
1. Dymonic 100
2. Color: To match adjacent material color (color and paintable)

C. Joint Sealant Backing:
1. Closed cell material with a surface skin or as approved by sealant manufacturer

Installation:
Install sealants and proper backing according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

079219- Acoustical Joint Sealants

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by USG or a comparable product by an approved manufacturer.

Products:

A. Acoustical Joint Sealant
1. USG Sheetrock Brand Acoustical Sealant

Installation:
Install sealants according to manufacturers' written instructions.

Warranty:
Provide manufacturer's standard warranty.

DIVISION 08 - OPENINGS

081113 - Hollow Metal Doors and Frames (Hurricane Zone)

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by CECO Door Products, or a comparable product by one of the following:

1. Curries Company
2. Steelcraft
3. Or Approved equal

Products:

Materials

A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

Hollow Metal Doors

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.

B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level.

Florida Product Approval: FL#4553
Texas Dept. of Insurance: TDI # DR-292

1. Design: Flush panel.
2. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
3. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
4. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
5. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Manufacturers Basis of Design:
1. CECO Door Products (C) Honeycomb Core - Regent Series.

Hollow Metal Frames

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.
B. Exterior Frames: Fabricated of hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.
1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:
a. CECO Door Products (C) – SQSeries.
b. Curries Company (CU) – M Series.
C. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.
1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Manufacturers Basis of Design:
a. CECO Door Products (C) - SQ Series.
b. Curries Company (CU) - M Series.
D. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

081113 - Hollow Metal Doors and Frames (Hurricane Zone) (continued)

Hollow Metal Frames

E. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

Frame Anchors

A. Jamb Anchors:
1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.
4. Windstorm Opening Anchors: Types as tested and required for indicated wall types to meet specified wind load design criteria.
B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.
C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

Installation:
Install hollow metal doors and frames according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

081416- Flush Interior Wood Doors

Door Construction - General
A. WDMA I.S.1-A Performance Grade: Extra Heavy Duty; Aesthetic Grade: Premium.
B. U-Factor: 0.50
Core Construction
A. Particleboard Core Doors:
1. Particleboard: Wood fiber based materials complying with ANSI A208.1 Particleboard standard. Grade LD-2.
2. Adhesive: Fully bonded construction using Polyurethane (PUR) glue.
3. Blocking: As indicated under article “Blocking”.
Veneered Doors for Painted Finish
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. ASSA ABLOY Wood Doors (GR): GPD Series.
2. Eggers Industries (EG): Premium Series.
3. Marshfield-Algoma (MF): Signature Series.
4. VT Industries (VT): Artistry Series.
B. Interior Solid Core Doors:
1. Grade: Custom.
2. Faces: Veneer grades as noted below; veneer minimum 1/50-inch (0.5mm) thickness at moisture content of 12% or less.
a. Rotary Sliced Natural Birch, A grade faces.
3. Match between Veneer Leaves: Book match.
4. Assembly of Veneer Leaves on Door Faces:
a. Running Match.
5. Pair and Set Match: Provide for doors hung in same opening or separated only by mullions.
6. Transom Match: Continuous match.
7. Vertical Edges: Matching same species as faces. Wood or composite material, one piece, laminated, or veneered. Minimum requirements per WDMA section P-1, Performance Standards for Architectural Wood Flush Doors.
8. Horizontal Edges: Solid wood or structural composite material meeting the minimum requirements per WDMA section P-1, Performance Standards for Architectural Wood Flush Doors
9. Construction: Five plies. Stiles and rails are bonded to core, then entire unit sanded before applying face veneers.
10. At doors over 40% of the face cut-out for lights and or louvers, furnish engineered composite lumber core.
Light Frames and Glazing
A. Metal Frames for Light Openings in doors with up to 1-inch thick insulated glazing.
1. Low profile beveled vision lite frame
2. Color: Gray
3. 20 gauge cold rolled steel
4. Mitered and welded corners with counter sunk mounting holes
5. Size as indicated on plans.
B. Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with the flush wood door manufacturer's written instructions.
Fabrication
A. Factory fit doors to suit frame opening sizes indicated.
1. Comply with requirements in NFPA 80 for fire rated doors.
2. Undercut: As required per manufacturer's templates and sill condition.
B. Factory machine doors for hardware that is not surface applied. Comply with final hardware schedules, door frame Shop Drawings, DHI A115-W series standards, and hardware templates.
1. Coordinate with hardware mortises in metal frames to verify dimensions and alignment before factory machining.
2. Metal Astragals: Factory machine astragals and formed steel edges for hardware for pairs of fire rated doors.
C. Openings: Cut and trim openings through doors in factory.
1. Light Openings: Trim openings with moldings of material and profile indicated.
2. Glazing: Comply with applicable requirements in Division 08 Section "Glazing."

Installation
A. Install per manufacturers' standard written instructions.

Warranty
A. Provide manufacturers' standard material warranty.

083613- Sectional Doors (Standard and Non-Impact Hurricane Zone):

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Overhead Door Corporation, or a comparable product by an approved manufacturer.

Products:

Notes:
1.) All glazing to have proper labels as required by local AHJ and building codes.
2.) All glazing shall be reviewed and approved by the local distributor to meet the requirements for the region in which the glazing is being installed. Any issues with items specified shall be brought to the attention of the Architect prior to bid.
3.) Door supplier is responsible for providing a door to meet the wind load requirements for the site location.
4.) Cornell Doors is NOT an approved manufacturer in Hurricane Prone Regions.

1.1 MANUFACTURERS
A. Acceptable Manufacturer: Overhead Door Corporation/Wayne Dalton, Commercial Solutions National Accounts, 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

1.2 GLAZED ALUMINUM SECTIONAL OVERHEAD DOORS

A. Glazed Aluminum Sectional Overhead Doors: Model 521 by Overhead Door Corporation:
1. Doors:

FL Product Approval #17629

a. Operation:
1) Provide doors designed for manual operation using a chain hoist.
b. Structural Performance Requirements:
1) Wind Loads: See Structural.

083613- Sectional Doors (Standard and Non-Impact Hurricane Zone) (continued):

A. Glazed Aluminum Sectional Overhead Doors: Model 521 by Overhead Door Corporation:
2. Door Model 521 Requirements:
a. Door Assembly: Stile and rail assembly secured with 1/4 inch (6mm) diameter through rods.
1) Panel Thickness: 1 3/4 inches (44 mm).
2) Center Stile Width: 2 11/16 inches (68 mm)
3) End Stile Width: 3 5/16 inches (84 mm)
4) Intermediate Rail Pair Width: 3 11/16 inches (94 mm)
5) Top Rail Width: 3 3/4 inches (95 mm)
6) Bottom Rail Width: 4 1/2 inches (114 mm)
7) Aluminum Panels: 0.050 inch (1.3 mm) thick, aluminum
8) Stiles and Rails: 6063 - T6 aluminum.
9) Springs: 50,000 cycles.
10) Provide leaf spring bumpers.
11) Glazing Panels: Match Exterior Elevations
12) Glazing Type: Impact Rated Glazing: .250 inch (6.35 mm) Clear UV Resistant Polycarbonate.
13) Stile and Rail Finish: Anodized Finish, see Finish Schedule for color.
14) Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
12) Lock: Interior galvanized single unit.
13) Weatherstripping: Provide complete weather stripping system to reduce air infiltration. Weatherstripping shall be replaceable.
14) Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
15) Configuration Type: Vertical Lift Clearance: Track must provide 35" available headroom, which will maintain 14'-0" minimum clearance from finish floor to underside of lift equipment.
16) Follow manufacturer's instructions for installation. Support tracks are to be adequately reinforced with continuous angle attached to structure.

1.3 EXECUTION

1 EXAMINATION
a. Do not begin installation until substrates have been properly prepared. Verify that site conditions are acceptable for installation of doors, operators, controls and accessories. Ensure that openings are square, flush and plumb.
b. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

2. PREPARATION
a. Clean surfaces thoroughly prior to installation.
b. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3. INSTALLATION
a. General: Install door, track and operating equipment complete with all necessary accessories and hardware according to shop drawings, manufacturer's instructions.
b. Lubricate bearings and sliding parts, and adjust doors for proper operation, balance, clearance and similar requirements.
c. Coordinate installation with adjacent work to ensure proper clearance and allow for maintenance.
d. Anchor assembly to wall construction and building framing without distortion or stress.
e. Secure brace door tracks suspended from structure. Secure tracks to structural members only.

4 PROTECTION
a. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove and legally dispose of construction debris from project site.
b. Remove temporary coverings and protection of adjacent work areas. Repair or replace installed products damaged prior to or during installation.
c. Lubricate bearings and sliding parts, assure weather tight fit around door perimeter and adjust doors for proper operation, balance, clearance and similar requirements. Protect installed products until completion of project.
d. Touch-up, repair or replace damaged products before Substantial Completion.

Installation:
Install sectional doors according to manufacturers' written instructions.

Warranty:
Overhead Door Corporation warrants the door sections against defects in material and workmanship, and deterioration due to rust-through for ten years from date of delivery to the original purchaser. Window components are warranted against defects in material and workmanship for one year from date of delivery to the original purchaser. Overhead Door warrants all hardware and spring components against defects in material and workmanship for one year (or cycle life of the springs) from date of delivery to the original purchaser. Additional Limited Warranty requirements in accordance with manufacturer's full standard limited warranty documentation.

084113- Aluminum-Framed Entrances and Storefronts (Hurricane Zone Impact)

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by YKK AP America Inc., or a comparable product by one of the following:

1. Kawneer
2. Or Approved equal

Products:

A. Exterior Storefront System

(Florida Product Approval: FL#14218.13)
(Texas Dept. of Insurance: TDI #CWSF-51)

1. YHS 50 TU Thermally Broken Impact Resistant and Blast Mitigating Storefront System for Insulating Glass
2. Center set.
3. Thermal Barrier: Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two part, chemically curing high density polyurethane which is bonded to the aluminum by YKK ThermaBond Plus.
4. Materials: Anodized Aluminum; 0.050" minimum thickness.
5. Accessories: As recommended by the manufacturer.
6. Components: Manufacturer's standard extruded aluminum mullions, entrance doors, framing, and indicated shapes, perimeter anchor fillers and steel reinforcing as required.
7. Glazing Stops: Manufacturer's standard glazing stops with EPDM glazing gaskets to prevent water infiltration at the exterior and Dow Corning 995 Structural Silicone Sealant with fixed stops at the interior. Color to match storefront.
8. Finish: See finish schedule.
9. Wind Load: See Structural for design pressures.
10. Door: 35H Medium Stile (Hurricane Rated)

Florida Product Approval: FL #16554.1
Texas Department of Insurance: TDI #DR-822

a. Material: 0.050" aluminum min. thickness
b. Finish: See finish schedule.
c. Hardware: See Division 8 Door Hardware
d. Accessories: Manufacturer's standard
e. Glass: See Division 8 Glazing
f. Glazing Stops: Manufacturer's standard
g. Weather-stripping: Manufacturer's standard

B. Interior Storefront System
1. YES 45 FS
2. Center set.
3. Materials: Anodized Aluminum; 0.050" minimum thickness.
4. Accessories: As recommended by the manufacturer.
5. Finish: See finish schedule.

C. Storefront Glazing
1. Glazing: Comply with Division 08 "Glazing"
2. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
3. Glazing Sealants: As recommended by the manufacturer.

AHO ARCHITECTS
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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Architectural Specifications

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

G201

Scale 12" = 1'-0"

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084113- Aluminum-Framed Entrances and Storefronts (Hurricane Zone Impact) continued:

Installation:
Install aluminum-framed entrances and storefronts according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

087100- Door Hardware

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by the following manufacturers, or approved equal:

1. MK- McKinney
2. AD- Adams Rite
3. YA- Yale
4. RO-Rockwood
5. NO-Norton
6. PE- Pemko

General Notes:
1. Hardware listed for design criteria, confirm with specific door manufacturer.
2. Door hardware must meet specified windstorm rating (Florida Approval Number / Texas Department of Insurance Approval) This is to be provided by door supplier, if applicable.
3. Finishes for all door hardware are to be as indicated on Finish Schedule.

Hardware Sets:

Set: 1.0
Doors: 1, 2, 22
Description: EXT - ALUM

1	Continuous Hinge	MCK-25HD	MK
1	Deadlatch	4900 x 4591	AD
1	Cylinder	Mort / Cyl as required	YA
2	Pull	BF168	RO
1	Surface Closer	CLP8501	NO
1	Mtg Plate	as required	NO
1	Threshold	271A Pemkote MSES25SS	PE
1	Gasketing	by door / frame mfg	
1	Sweep	315CN	PE

Set: 2.0
Doors: 6,
Description: CORRIDOR

4	Hinge	TA2714 4-1/2" x 4-1/2"	MK
1	Cylindrical Lock (classroom)	PB 5408LN	YA
1	Surface Closer	8501 Reg / PA	NO
1	Kick Plate	K1050 8" X 2" LDW 4BE CSK	RO
1	Door Stop	409 / 446 [as required]	RO
1	Gasketing	S773D	PE

Set: 3.0
Doors: 3, 4
Description: WAITING - ALUM

1	Continuous Hinge	MCK-25HD	MK
2	Door Pull	BF168	RO
1	Surface Closer	8501 Reg / PA	NO
1	Door Stop	409 / 446 [as required]	RO
1	Gasketing	by door / frame mfg	

Set: 3.1
Doors: 17, 18, 24, 30, 32
Description: EXT - BAYS

4	Hinge (heavy weight)	T4A3386 NRP 4-1/2" x 4-1/2"	MK
1	Exit Device (rim, nightlatch)	7150 WS PB627F	YA
1	Cylinder	Mort / Cyl as required	YA
1	Surface Closer	CLP8501	NO
1	Threshold	271A Pemkote MSES25SS	PE
1	Gasketing	S773D	PE
1	Rain Guard	346C x LAR	PE
1	Sweep	315CN	PE

Set 3.2
Door: 11
Description: Pit Ladder

4	Hinge (heavy weight)	T4A3386 NRP 4-1/2" x 4-1/2"	MK
1	Exit Device (rim, nightlatch)	7150 WS PB627F	YA
1	Cylinder	Mort / Cyl as required	YA
1	Surface Closer	CLP8501	NO

Set: 4.0
Doors: 5
Description: TOILET

4	Hinge	TA2714 4-1/2" x 4-1/2"	MK
1	Cylindrical Lock (privacy)	PB 5402LN	YA
1	Mop Plate	K1050 4" X 1" LDW 4BE CSK	RO
1	Door Stop	409 / 446 [as required]	RO
1	Gasketing	S773D	PE
1	Surface Closer	8501 Reg / PA	NO

Set: 5.0
Doors: 13
Description: OFFICE

4	Hinge	TA2714 4-1/2" x 4-1/2"	MK
1	Cylindrical Lock (entry)	PB 5407LN	YA
1	Door Stop	409 / 446 [as required]	RO
1	Threshold	271A Pemkote MSES25SS	PE
1	Gasketing	S773D	PE
1	Sweep	315CN	PE
1	Surface Closer	8501 Reg / PA	NO

Set: 6.0
Doors: 8
Description: BREAK

4	Hinge	TA2714 4-1/2" x 4-1/2"	MK
1	Passage Set	PB 5401LN	YA
1	Surface Closer	8501 Reg / PA	NO
1	Mop Plate	K1050 4" X 1" LDW 4BE CSK	RO
1	Kick Plate	K1050 8" X 2" LDW 4BE CSK	RO
1	Door Stop	409 / 446 [as required]	RO
1	Gasketing	S773D	PE

Set: 7.0
Doors: 7
Description: SHOP TOILET

4	Hinge	TA2714 4-1/2" x 4-1/2"	MK
1	Cylindrical Lock (privacy)	PB 5402LN	YA
1	Mop Plate	K1050 4" X 1" LDW 4BE CSK	RO
1	Door Stop	409 / 446 [as required]	RO
1	Threshold	271A Pemkote MSES25SS	PE
1	Gasketing	S773D	PE
1	Sweep	315CN	PE
1	Surface Closer	8501 Reg / PA	NO

Set: 8.0
Doors: 14, 15, 16, 19, 20, 21, 25, 26, 27, 28 ,29
Description: OH DOOR

1	Hardware	By door mfg

087100- Door Hardware (continued):

Set 9.0
Doors: 9, 10, 12, 23, 31
Description: Storage

4	Hinge	TA2714 4-1/2" x 4 1/2"	MK
1	Cylindrical Lock (classroom)	PB5402LN	YA
1	Surface Closer	CLP8501	NO
1	Kick Plate	K1050 8" x 2" LDW 4BE CSK	RO
1	Door Stop	409 / 446 (as required)	RO
1	Gasketing	3773D	

Installation:
Install door hardware according to manufacturers' written instructions.
All door hardware (Interior and Exterior) to be keyed alike.

Warranty:
Provide manufacturers' standard product warranty.

088000- Glazing (IGU) Hurricane Impact

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Vitro, or a comparable product by one of the following:

1. Guardian Industries Corp.
2. Or Approved equal

Notes:
1.) All glazing to have proper labels as required by local AHJ and building codes.
2.) All glazing shall be reviewed and approved by the local distributor to meet the requirements for the region in which the glazing is being installed. Any issues with items specified shall be brought to the attention of the Architect prior to bid.
3.) In wind-borne debris regions, glazed opening in buildings shall be impact resistant or protected with an impact resistant covering.

A. (GL-1) Insulating Glass Unit:
Double Glazed Clear Solar Control Laminated Insulating Glass Unit [6mmSB90(2)Clear_090PVB_6mmClear | Air 1/2" (12.7mm) | Clear 6mm]
1. Conformance: ASTM C 1172 and complying with testing requirements
2. Outdoor Lite: Laminate
   a. Conformance: ASTM C1172 and complying with testing requirements
3. Laminate Outboard Lite: Clear float glass as manufactured by Vitro Architectural Glass .
   a. Conformance: ASTM C 1036, Type I, Class 1, Quality q3
   b. Thickness: 6mm (1/4")
   c. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
   d. Magnetic Sputter Vacuum Deposition Coating (MSVD): ASTM C 1376.
   e. Coating: Solarban® 90 on Surface # 2
4. Interlayer:
   1) Type: PVB
   2) Thickness: 0.090" (2.29 mm)
   3) Color: Clear
5. Laminate Inboard Lite: Clear float glass as manufactured by Vitro Architectural Glass
   a. Conformance: ASTM C 1036, Type I, Class 1, Quality q3
   b. Thickness: 6mm (1/4")
   c. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
6. Interspace Content: Air 1/2" (12.7mm)
7. Indoor Lite: Clear float glass as manufactured by Vitro Architectural Glass
   a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
   b. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
   c. Glass Thickness: 6mm (1/4")
8. Performance Requirements:
   a. Visible Light Transmittance: 41 percent minimum.
   b. Winter Nighttime U-Factor: 0.45 (Btu/hr*ft²*°F) maximum.
   c. Summer daytime U-Factor: 0.47 (Btu/hr*ft²*°F) maximum.
   d. Shading Coefficient: 0.27 maximum.
   e. Solar Heat Gain Coefficient: 0.23 maximum.
   f. Outdoor Visible Light Reflectance: 16 percent maximum.

B. (GL-2) Monolithic Single-Glaze Float-Glass:
Monolithic Clear Glass Clear 6mm
1. Clear float glass as manufactured by Vitro Architectural Glass
   a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
   b. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
   c. Glass Thickness: 6mm (1/4")
2. Performance Requirements:
   a. Visible Light Transmittance: 89 percent minimum.
   b. Winter Nighttime U-Factor: 1.02 (Btu/hr*ft²*°F) maximum.
   c. Summer daytime U-Factor: 0.92 (Btu/hr*ft²*°F) maximum.
   d. Shading Coefficient: 0.94 maximum.
   e. Solar Heat Gain Coefficient: 0.82 maximum.
   f. Outdoor Visible Light Reflectance: 8 percent maximum.

C. (GL-3) Spandrel Insulating-Glass Unit (Hurricane)
Double Glazed Clear Solar Control Spandrel Insulating Glass Unit [Solarban 90 on clear 6mm (2) | Air 1/2" (12.7mm) | 100% Black-Gray Spandrel Coating (4) on 6mm Clear]
1. *Conformance:* Laminated Glass: ASTM C 1172, with manufacturer's standard polyvinyl butyral or cured resin interlayer. *ASTM E 2190*, Heat-Treated Float Glass, Fully Tempered: ASTM C 1048; Type I (transparent flat glass); Quality-Q3; Kind FT, of class and condition indicated: where safety glass is indicated. Safety glazing must comply with ANSI Z97.1 and CPSC 16CFR-1201; Coated Spandrel Float Glass: Float glass complying with ASTM C 1048, GANA 'Engineering Standards Manual' 89-1-6 Specification for Environmental Durability of Fully Tempered or Heat-Strengthened Spandrel Glass with Applied Opacifier and other requirements specified, with manufacturer's standard opacifier material on coated second surface of lites.
2. Outdoor Lite: Laminate
   a. Conformance: ASTM C1172 and complying with testing requirements.
3. Laminate Outboard Lite: Clear float glass as manufactured by Vitro Architectural Glass.
   a. Conformance: ASTM C 1036, Type I, Class 1, Quality q3
   b. Thickness: 6mm (1/4")
   c. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
   d. Magnetic Sputter Vacuum Deposition Coating (MSVD): ASTM C 1376.
   e. Coating: Solarban® 90 on Surface # 2
4. Interlayer:
   a. Type: PVB
   b. Thickness: 0.090" (2.29mm)
   c. Color: clear
5. Laminate Inboard Lite: Clear float glass as manufactured by Vitro Architectural Glass.
   a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
   b. Glass Thickness: 6mm (1/4")
   c. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
6. Interspace Content: Air 1/2" (12.7mm)
7. Indoor Lite: Clear float glass as manufactured by Vitro Architectural Glass
   a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
   b. Glass Thickness: 6mm (1/4")
   c. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201
   d. Coating Type, Color, Number, % Coverage: Opaci-Coat 300, #3 967 Black-Gray, 100% coverage
   e. Spandrel Coating Surface: 5
5. Performance Requirements:
   a. Visible Light Transmittance: 0 percent minimum.
   b. Winter Nighttime U-Factor: 0.45 (Btu/hr*ft²*°F) maximum.
   c. Summer daytime U-Factor: 0.47 (Btu/hr*ft²*°F) maximum.
   d. Shading Coefficient: 0.21maximum.
   e. Solar Heat Gain Coefficient: 0.18 maximum.
   f. Outdoor Visible Light Reflectance: 16 percent maximum.

088000- Glazing (IGU) Hurricane Impact (continued):

D. Glazing Installation
   1. Install per manufacturers' standard written instructions.

E. Glazing warranty
   1. Provide manufacturers' standard product warranty.

DIVISION 9 - FINISHES

092900- Gypsum Board

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Lafarge unless otherwise indicated, or a comparable product by one of the following:

1. Georgia-Pacific
2. USG
3. National Gypsum

Products:

A. Moisture and Mold-Resistant Type: Mold Defense
   1. Thickness: 1/2 inch
   2. Long Edges: Tapered
   3. Finish: Level 4 in areas exposed to view. Level 1 in concealed areas.
B. Water-resistant Type: Watercheck (@ Toilet Rooms and behind plumbing fixtures)
   1. Thickness: 1/2 inch
   2. Long Edges: Tapered
   3. Finish: Level 4
   4. Cuts: All cuts in board shall be covered with special waterproofing sealant as recommended by the manufacturer.
C. Type X: Firecheck (As Required)
   1. Thickness: 5/8"
   2. Long Edges: Tapered
   3. Finish: Level 4
   4. All penetrations and joints to be sealed with fire caulk as recommended by the manufacturer.

Installation:
Install gypsum board and accessories according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

095000- Acoustical Tile Ceiling

Manufacturer:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Armstrong World Industries, Inc.

Products:
A. Acoustical Ceiling Panels
   1. Style: 1775 Dune
   2. Surface Texture: Fine Texture
   3. Composition: Mineral Fiber
   4. Color: White
   5. Size: 24 inch x 24 inch
   6. Edge Profile: Square Lay-in

B. Metal Suspension Systems
   1. Suprafine XL 9/16" Exposed Tee Grid and Edge Molding
   2. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft annealed, with a yield stress load of at least time three design load, but not less than 12 gauge.

Installation:
Install suspension system and panels in accordance with manufacturers' written instructions, and in compliance with ASTM C 636.

Warranty:
Provide manufacturers' standard product warranty.

096513- Resilient Base and Accessories

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Roppe, or a comparable product by one of the following:

1. Johnsonite, a Tarkett Company
2. Armstrong World Industries
3. Or Approved equal

Products:
A. Rubber Base: Pinnacle Rubber by Roppe
   1. Height: 4"
   2. Length: Coils in manufacturer's standard length
   3. Outside Corners: Job formed
   4. Inside Corners: Job formed
   5. Color as indicated on finish schedule.

B. Reducer Strip: Roppe Reducer Strip #22
   1. Color as indicated on finish schedule.

C. Adhesives: As recommended by the manufacturer

Installation:
Install resilient base according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

096519- Resilient Tile Flooring

Manufacturers:

Subject to compliance with requirements, provide product indicated below by Tarkett,

Products:
A. LVT
   1. Style / Color: Contour Mineral Basalt PCMB / Paved Path 4645
   2. Size: 12" x 36" planks
   3. Overall thickness: .120" (3 mm)
   4. Wear layer Thickness: 32 mil (0.8 mm)

B. Adhesives: As recommended by the manufacturer

Installation:
Install resilient floor tile according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

099113- Exterior Painting

Manufacturer:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Sherwin Williams.

Products:
A. Masonry:
   1.) Primer: SW Pro Industrial Heavy Duty Block Filler B42W150
   2.) Finish Coats: SW Latitude Exterior Acrylic in Satin Finish K62-Series
B. Steel:
   1.) Primer: SW Pro Industrial Pro-Cryl Universal Primer B66-1300 Series
   2.) Finish Coats: SW Pro Industrial Urethane Alkyd Enamel B54-Series
C. Wood:
   1.) Primer: SW Exterior Latex Wood Primer B42W8141
   2.) Finish Coats: SW Latitude Exterior Acrylic in Satin Finish K62-Series
D. Aluminum: Pro Industrial Urethane Alkyd Enamel Gloss, B54-150 Series
   1.) Primer: SW Pro Industrial Pro-Cryl Universal Primer B66-1300 Series
   2.) Finish Coats: SW Pro Industrial Sher-Cryl High Performance Acrylic Semi-Gloss B66-1350 Series

Note: Use 1 coat primer as recommended by manufacturer and 2 finish coats unless otherwise recommended by the manufacturer.

Installation:
Install exterior paint according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

099123- Interior Painting

Manufacturer:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Sherwin Williams.

Products:

A. Masonry:
   1.) Primer: SW Pro Industrial Heavy Duty Block Filler B42W150
   2.) Finish Coats: SW Pro Industrial Pre-Catalyzed Epoxy Semi-Gloss K46-Series
B. Steel:
   1.) Primer: SW Pro Industrial Pro-Cryl Universal Primer B66-1300 Series
   2.) Finish Coats: Pro Industrial Urethane Alkyd Enamel Gloss, B54-150 Series
C. Interior Wood:
   1.) Primer: SW PrepRite ProBlock Interior/ Exterior Latex Primer- Sealer B51-600 Series
   2.) Finish Coats: SW Pro Industrial Acrylic Semi-Gloss B66-650 Series
D. Gypsum Board in Office Area:
   1.) Primer: ProMar 200 Zero VOC Interior Latex Primer B28W12600
   2.) Finish Coats: ProMar 200 Zero VOC Interior Latex Egshel, B20W2600 Series. Use extreme bond primer at vinyl graphics.
E. Gypsum Board in Bay Area:
   1.) Primer: ProMAR 200 Zero VOC Interior Latex Primer B28W12600
   2.) Finish Coats: SW Pro Industrial Catalyzed Epoxy B73-Series. Use extreme bond primer at vinyl graphics.
F. Gypsum Board Ceilings:
   1.) Primer: ProMar 200 Zero VOC Interior Latex Primer B28W12600
   2.) Finish Coats: ProMar 200 Zero VOC Interior Latex Flat, B30W2650 Series
G. Sealed Concrete Floors:
   ArmorSeal Rexthane I Floor Coating + SharkGrip Slip-Resistant Additive (1000 HS primer)

Note: Use 1 coat primer as recommended by manufacturer and 2 finish coats unless otherwise recommended by the manufacturer.

Installation:
Install interior paint according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

DIVISION 10 - SPECIALTIES

101419- Dimensional Letter Signage - By others.

101423.13 Room-Identification Signage

See drawing on A602.

102600 - Wall and Door Protection

Manufacturer:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by InPro Corporation:

Products:

A. Stainless Steel Flush Mount Corner Guards
B. Corner Radius:1/8"
C. Height: 4'-0"
D. Width: 1 1/2"
E. Materials: Stainless Steel: Type 430, 16 gauge
F. Attachment: Pre-drilled beveled holes and Phillips head screws.
G. Finish: Stainless Steel No. 4 satin finish.
H. Location: As indicated on drawings.
J. Installation: Install per manufacturer's standard written instructions.
K. Warranty: Provide manufacturers' standard product warranty.

102800- Toilet, Bath, and Laundry Accessories

The following list of accessories is essentially complete; however, the Contractor shall examine the drawings carefully and shall supply such items not specifically called for to provide a complete installation.

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Bradley Corporation or a comparable product by one of the following:

1. Bobrick Washroom Equipment, Inc.
2. American Specialties, Inc.
3. Or Approved Equal

Products:

A. Robe Hook: Bradley Model 915.
B. Grab Bars: Bradley Model 812-001-42, Model 812-001-36, and Model 812-001-24
C. Toilet Tissue Dispenser: Bradley Model 5425 **(By Others)**
D. Mirror: Bradley Model 780-2436
E. Soap Dispenser: Bradley Model 6563 **(By Others)**
F. Paper Towel Dispenser: Bradley Model 2494 **(By Others)**
G. Under Lavatory Guard: Truebro Lav Guard 2 by IPS Corporation
H. Baby Changing Station: Bradley Model 9631 (Light Gray)

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Architectural Specifications

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

G202

Scale	12" = 1'-0"

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102800- Toilet, Bath, and Laundry Accessories (continued)

Installation:

1. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and heights indicated.

2. Install grab bars to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

Warranty:
Provide manufacturers' standard product warranty.

104413- Fire Department Lock Box

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Knox, or a comparable product by one of the following:

1. Kidde
2. Or Approved Equal

Products:

A. Lock Box: 3200 Series Hinged Door Surface Mount
   i. Color: As indicated on Finish Schedule

Installation:
1. Install fire department lock box in location and height as required by the authorities having jurisdiction.
2. Install per manufacturer's written installation instructions.

Warranty:
Provide manufacturers' standard product warranty.

104416- Fire Extinguishers

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Amerex Corporation, or a comparable product by one of the following:

1. Larsens Manufacturing Company
2. JL Industries
3. Or Approved Equal

Products:

A. ABC Dry Chemical Extinguisher: Amerex Model B456
B. Wall Bracket: Amerex Model 0546 Wall
C. UL and ULC Rating: 4A-80BC

Installation:

1. Install fire extinguishers in locations and heights indicated and in compliance with requirements of authorities having jurisdiction.

2. Install fire extinguishers and brackets according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

107130 - Exterior Window Shutters

Manufacturers:

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Croci North America [FL Approval #21863.1] or a comparable product by one of the following:

1. Or Approved Equal

Products:

A. Bahama Shutters
   1. Must meet the requirements of Florida Product Approval
   1. Multi-Panel System
   2. Total Dimensions:
      a) 7'-0" wide x 3'-0" high
      b) 10'-0" wide x 3'-0" high
   3. Color: As indicated on finish schedule.

Installation:

1. Install in locations as indicated on the drawings and in compliance with requirements of local authorities having jurisdiction and the local building codes and standards.

Warranty:
Provide manufacturers' standard product warranty.

DIVISION 12- FURNISHINGS

123623.13 Plastic-Laminate-Clad Countertops

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Wilsonart.

Products:

A. Plastic Laminate #1
   i. High pressure decorative laminate: NEMA LD3
   ii. Grade: HGS
   iii. Color: 4880-38 Carbon Mesh

B. Adhesives: as recommended by the manufacturer

Installation:
Install plastic laminate according to manufacturers' written instructions.

Warranty:
Provide manufacturers' standard product warranty.

DIVISION 31- EARTHWORK

313116- Termite Control

Provide EPA Registered termiticide acceptable to authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation.

DIVISION 33 - UTILITIES

334600- Subdrainage

Basis-of-Design Product: Subject to compliance with requirements, provide products indicated below by Carlisle.

Products:

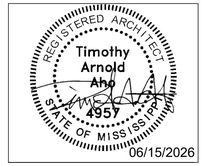
A. CCW MiraDrain 6200 and 9800
B. CCW MiraStop BW
C. CCW MiraClay Woven and Non-woven Geotextile
D. CCW MiraClay Granules or Mastic

Installation:
Install subdrainage products according to manufacturers' written instructions.

REQUIRED SUBMITTALS

REQUIRED SUBMITTALS	SPECIFICATION SECTION	SUBMIT TO
Cast-In-Place Concrete / Rebar	See Structural Drawings	Structural Engineer / Architect / Owner
Unit Masonry	042200 Masonry	Structural Engineer / Architect / Owner
Structural Steel Framing	See Structural Drawings	Structural Engineer / Architect / Owner
Steel Joist Framing	See Structural Drawings	Structural Engineer / Architect / Owner
Steel Decking	See Structural Drawings	Structural Engineer / Architect / Owner
Ladders	055133 Ladders	Owner
Metal Copings & Canopies	077100 Roof Specialties & Drawings	Owner
EIFS Cornice	072400 EIFS	Owner
TPO Roofing	075423 TPO Roofing	Owner
Standing Seam Metal Roofing	074113.16 SSMR	Owner
Roof Specialities	077100 Roof Specialties	Owner
Aluminum Framed Entrances & Storefronts	084113 Storefront	Owner
Aluminum Windows	084113 Storefront	Owner
Hollow Metal Doors & Frames	081113 HM Doors & Frames	Owner
Interior Wood Doors	081416 Interior Wood Doors	Owner
Overhead Doors	083613 Sectional Doors	Owner
Door Hardware	087100 Door Hardware	Owner
Glazing	088000 Glazing	Owner
Exterior Paint	099113 Exterior Paint	Owner
Interior Paint	099123 Interior Paint	Owner
Fire Extinguishers	104416 Fire Extinguishers	Owner
Termite Control	313116 Termite Control	Owner
Foundation Waterproofing	334600 Subdrainage	Owner
Smoke Vent	See Mechanical Drawings	Owner
Exhaust Fans in Shop	See Mechanical Drawings	Owner
Radiant Heaters / Gas Fired Unit Heaters	See Mechanical Drawings	Owner
Heat Pump / Gas Fired Furnace	See Mechanical Drawings	Owner
Sump Pump	See Keynote #35	Owner
Water Heater / Recirculating Pump	See Plumbing Drawings	Owner
Oil Water Separator	See Plumbing Drawings	Owner
Plumbing Fixtures	See Plumbing Drawings	Owner
Fire Suppression (If Required)	See Fire Suppression Drawings	Owner
Electrical Panels	See Electrical Drawings	Owner
Electrical Fixtures	See Electrical Drawings	Owner
Signage	See Signage Package	Owner
Underground Piping Materials	See Civil Drawings	Civil Engineer / Owner
Underground Water Retention System	See Civil Drawings	Civil Engineer / Owner
Sewer Pump / Grinder Pump	See Civil Drawings	Civil Engineer / Owner

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L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Architectural Specifications & Required Submittals List

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

G203

Scale 12" = 1'-0"

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EXPRESS OIL CHANGE & TIRE ENGINEER STANDARDS - EXTERIOR

EXTERIOR

AWNING

The new metal awning adds a nice modern, industrial look to the buildings and features built-in lighting for customers entering and exiting in late afternoons. Standard size is 12' for most buildings.



9

Awnings by General Contractor. See Details

BRANDED SCONCES

40"x28" aluminum sconces light up your building from top to bottom with a glowing logo in center.
E sconces are to be placed on oil change side. TE sconces are to be placed on mechanical side.
Sconces to to be evenly spaced between the bay doors, and vertically centered with the bay doors.



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Branded Sconces by Others

CHANNEL LETTERS

White channel letters with 3" depth. Channel letter sizing is dictated by space and also may change due to the local sign regulations. In most cases, these letters are treated as directional signage. In most cases, sizes vary from 18" to 24".

FONT

Interstate Bold Condensed - 50pt tracking

LETTERING FOR FRONT BUILDING

10 MINUTE OIL CHANGE
FULL SERVICE AUTO CARE
TIRE CENTER

LETTERING FOR BACK BUILDINGS

TIRES ALIGNMENT ROTATE & BALANCE
DIAGNOSTICS A/C BRAKES

8

Letters by Others

Note: Items shown on this page are EOC standards. See Finish Schedule for actual materials to be used on this project.

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFB-0	Issued for Bid	06/15/2026

2026
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EOC Standards-Exterior

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

G300

Scale 12" = 1'-0"

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EXPRESS OIL CHANGE & TIRE ENGINEERS STANDARDS - INTERIOR

INTERIOR

INTERIOR PAINT

Adding two-toned blue walls to the interior creates a bold look that is consistent with EOC&TE branding. The vinyl graphics add an extra communication element.



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IN-BAY MEDIA (OPTIONAL)

In-Bay Media relays all EOC&TE services to the customer with powerful animated, custom messages. The video is currently over 7 minutes long, allowing some messages to be viewed more than once.



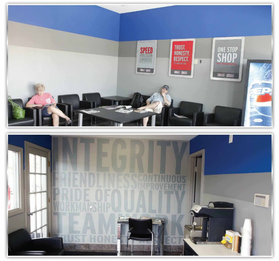
14

In Bay Media by Others

LOBBY

PAINT SCHEME

Paint 3 color stripe on all walls, except the "Word Wall" if permitted. The "Word Wall" will be painted Summit Gray and the vinyl words will be applied to it. For the "Word Wall", choose a blank wall or a wall that has the most blank coverage for the vinyl.



15

BRANDED POSTERS

The new posters deliver powerful messages, and include a new design of the EOC&TE mission statement. Each poster is 36" x 48". Order on www.expressoilprint.com



POSTER FRAMES, MAGAZINE AND ACE CARD HOLDERS

These frames and holders are made of aluminum to match the branding of EOC&TE.



16

Branded Posters by Others.

LOBBY

CHAIRS

There are two options for chairs. Global Lounge large chairs for larger spaces and Europa Guest Chairs for smaller spaces. These chairs are heavy duty and come with a warranty. The are both black leather with metal accent.

Global Lounge Chair - Large



Europa Guest Chair - Small



TILE

All tile must be replaced unless it is in good shape and is a gray color.
Replacement is Dal-Tile Heathland HL05 Ashland with 6" wall base and Dark Grout.

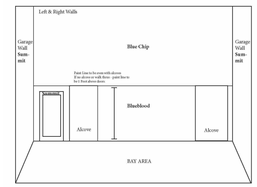


17

Furniture by Others

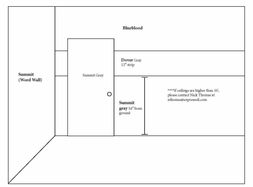
PAINT SCHEDULE

BAY AREA



25

LOBBY



26

See Finish Schedule for Paint Selections

TABLES & LAPTOP STATION

These tables have a heavy duty laminate top with chrome accent legs to match the chairs. They are fully customizable, in shape and size, to fit your space. Typically we use these tables for laptop workstations and for coffee tables. If you do not have space for both, choose which one you would like to have (coffee or laptop station). We also place powerstrips on top of tables that screw on the back. These can be purchased at Home Depot or online (search Wiremold Desktop Power Center or WSR320-S)



CHAIRS FOR LAPTOP WORKSTATION

Small, armless chairs with leather cushion seat.

Sonic Armless Chair



18

Furniture by Others

VINYL SCHEDULE

The vinyl is fully customizable as far as size and layout. Each location is different. It is best to send the vendor clear measurements of the lobby wall and of the bay walls so they can size appropriately. Please be aware of piping or shelving, or anything else that may be in the way. PLEASE ALLOW 1 WEEK FOR PAINT TO CURE BEFORE APPLYING VINYL.

Bay Area - Avery 700 Medium Gray and Rubber Duckie
Lobby Word Wall - Oracal 631 Gray 071



23

Wall Graphics by Others

Coffee Cabinet Detail

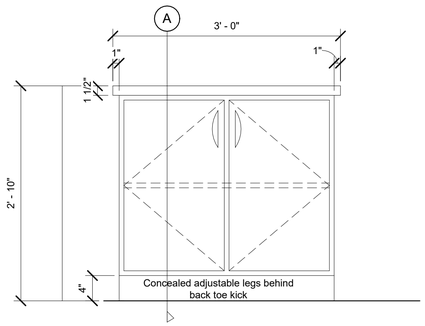
CONSTRUCTION AND MATERIAL NOTES:

Construction

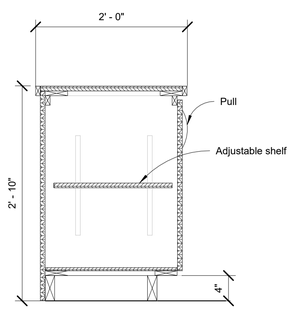
1.) Cabinets:	3/4" plywood with plastic laminate at exposed surfaces, black melamine at semi-exposed surfaces, and 3MM PVC edgebanding to match the adjacent laminate / melamine color
2.) Door Fronts:	3/4" plywood with plastic laminate with 3MM PVC edgebanding to match the adjacent laminate color
3.) Shelf:	3/4" plywood with black melamine at semi-exposed surfaces with 3MM PVC edgebanding to match the adjacent melamine color
4.) CounterTops:	3/4" plywood with plastic laminate with 3MM PVC Edgebanding to match the adjacent laminate color

Materials

1.) Cabinets:	Wilsonart 4880-38 Carbon Mesh
2.) Drawer Fronts:	Wilsonart 4880-38 Carbon Mesh
3.) Shelf:	Black Melamine
4.) Countertops:	Wilsonart 4830K-18 Satin Stainless
5.) Adjustable Shelve Supports:	Standard Euro Style 5MM Pin System.
5.) Hinges:	European 120 Degree Concealed / Supports - 90 Degree Angle Brackets
6.) Legs:	1" -2" Concealed Adjustable. / Legs - 5" to 6" Aluminum or Chrome Adjustable
7.) Finger Pulls:	Amerock Current 3 inch Modern Polished Chrome Edge Cabinet Pull



FRONT ELEVATION



SECTION A

Service Desk Details

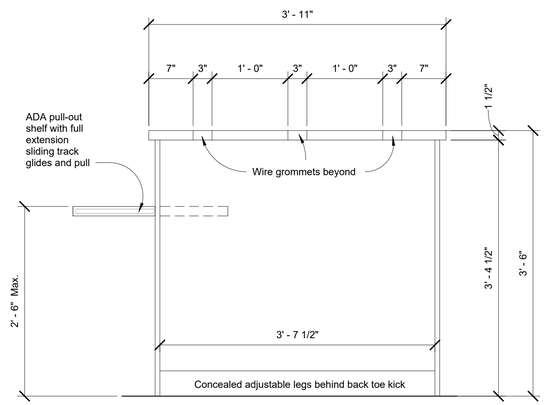
CONSTRUCTION AND MATERIAL NOTES:

Construction

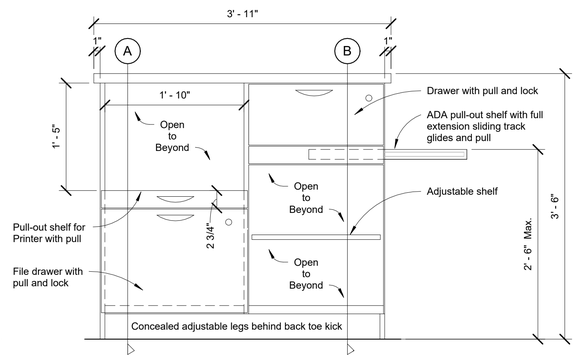
1.) Cabinets:	3/4" plywood with plastic laminate at exposed surfaces, black melamine at semi-exposed surfaces, and 3MM PVC edgebanding to match the adjacent laminate / melamine color
2.) Door and Drawer Fronts:	3/4" plywood with plastic laminate with 3MM PVC edgebanding to match the adjacent laminate color
3.) Drawer Box:	1/2" plywood with black melamine at semi-exposed surfaces with 3MM PVC edgebanding to match the adjacent melamine color
4.) CounterTops:	3/4" plywood with plastic laminate with 3MM PVC Edgebanding to match the adjacent laminate color

Materials

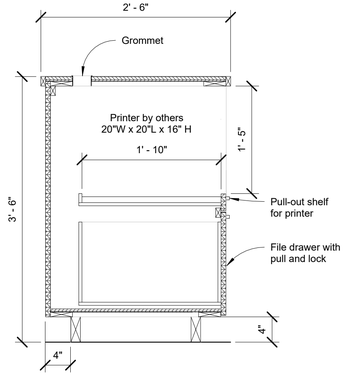
1.) Cabinets:	Wilsonart 4880-38 Carbon Mesh
2.) Drawer and Drawer Fronts:	Wilsonart 4880-38 Carbon Mesh
3.) Drawer Box:	Black Melamine
4.) Countertops:	Wilsonart 4830K-18 Satin Stainless
5.) Adjustable Shelve Supports:	Standard Euro Style 5MM Pin System.
5.) Hinges:	European 120 Degree Concealed / Supports - 90 Degree Angle Brackets
6.) Legs:	1" -2" Concealed Adjustable. / Legs - 5" to 6" Aluminum or Chrome Adjustable
7.) Finger Pulls:	Amerock Current 3 inch Modern Polished Chrome Edge Cabinet Pull
8.) Locks:	Manufacturer standard



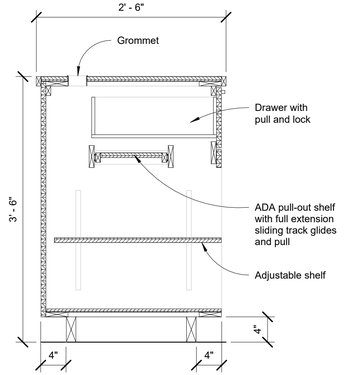
FRONT ELEVATION



BACK ELEVATION



SECTION A



SECTION B

AHO ARCHITECTS
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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers
L-Shaped / Right Hand Oil Change / Front Enter
Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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EOC Standards - Interior

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

G301

Scale	As indicated

6/19/2026 2:32:17 PM

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	25046 EOC Ocean Springs, Mississippi
Location:	Ocean Springs, Mississippi
Climate Zone:	2a
Project Type:	New Construction
Vertical Glazing / Wall Area:	12%

Construction Site:	Owner/Agent:	Designer/Contractor:
Bienville Blvd. Ocean Springs, Mississippi 39564	Express Oil Change & Tire Jud Duck 1880 Southpark Drive Birmingham, Alabama 35244 2059451771 justin.duck@expressoil.com	Aho Architects, a sole proprietorship 1909 Data Drive Hoover, Alabama 35244 2059836000 mbrunson@ahoarch.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Building Area	Floor Area
1-Automotive Facility : Nonresidential	1120

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{alt}$
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance Index = 85.00, Thermal Emittance = 0.86 (d), [Bldg. Use 1 - Automotive Facility]	1213	---	25.0	0.039	0.039
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Automotive Facility] (c)	1120	---	---	0.730	0.730
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	635	20.0	0.0	0.064	0.064
EAST					
Ext. Wall (Manager/Stor): Wood-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	795	20.0	0.0	0.064	0.064
Storefront A: Metal Frame Fixed, Perf, Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	24	---	---	0.270	0.500
Door #13: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610
Door #12: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610
Int. Wall (Corridor near Serv Writ/Wait/Toilet): Wood-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	209	20.0	0.0	0.064	0.064
Door #6: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610
Door #7: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610
Door #9: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610
SOUTH					
Ext. Wall (Serv Writ/ Break/ Manager): Wood-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	596	20.0	0.0	0.064	0.064

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{alt}$
Door #1: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	21	---	---	0.270	0.830
Door #2: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	21	---	---	0.270	0.830
Storefront C: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	64	---	---	0.270	0.500
Storefront B: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	53	---	---	0.270	0.500
Storefront B: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	53	---	---	0.270	0.500
WEST					
Ext. Wall (Serv Writ/Wait/Toilet): Wood-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	434	20.0	0.0	0.064	0.064
Storefront B: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	53	---	---	0.270	0.500
Storefront B: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarban 90 on clear, SHGC 0.23, PF 0.40, [Bldg. Use 1 - Automotive Facility] (b)	53	---	---	0.270	0.500
Int. Wall (Corridor near Break/Mech): Wood-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	172	20.0	0.0	0.064	0.064
Door #8: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610
Door #10: Wood, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.500	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) High albedo roof requirement options: 1) 3-year aged solar reflectance index >= 55.0 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 8% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Marie C. Brunson — 04/28/2026
Name / Title — Signature — Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 1.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1]*	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR10]*	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR11]*	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.2 [PR14]*	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling height > 15 ft, in Climate Zone 2 office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9]*	Plans, specifications, and/or calculations provide information with which compliance can be determined for the additional energy efficiency package options	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [F04]*	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2.1 [F06]*	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [F03]*	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [F07]*	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.2 [F012]*	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1.3 [F013]*	Fenestration products are certified as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.3 [F010]*	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.5 and 4 [F08]*	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1 [F016]*	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.2, C402.5.4 [F018]*	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.3, C403.2.4.3 [ME3]*	Stair and elevator shaft vents have motorized dampers that automatically close. Reference section C403.7.7 for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26]*	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27]*	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency rating shall be provided by motor nameplate. Such certification programs do not exist.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2.1 [EL28]*	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9 [EL29]*	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3]*	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN20]*	Insulation installed on a suspended ceiling with gypsum board is as required by specified for roof/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1 [IN10]*	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2 [IN7]*	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN6]*	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8]*	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN19]*	Radiant panels and associated insulation installed so that heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.3 [IN5]*	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN2]*	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1]*	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.6 [FI37]*	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.5 [FI26]*	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI37]*	Building operations and maintenance documents will be provided to the owner. Documents will cover mechanical, lighting, service specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers
L-Shaped / Right Hand Oil Change / Front Enter
Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFB-0	Issued for Bid	06/15/2026

2026
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Building COMCheck

Project number	25046
Date	4/21/2026
Drawn by	Author
Checked by	Checker

G400

Scale

6/19/2026 2:32:20 PM

1 General Information

PROJECT INFORMATION

Name of Project: L-Shaped Single Building / Right Hand Oil Change/ Front Enter

Client: Express Oil Change & Tire Engineers

Location: Lynn Haven, Florida
Authority Having Jurisdiction (AHJ): City: Lynn Haven County: N/A State: N/A

Square Footage / Stories / Height: Main Level G.S.F. = 5,877 Stories = 1 + Pit Height = 24'- 2 3/4"
Pit Level G.S.F. = 1,366
Total G.S.F. = 7,243

PROJECT TYPE

■ New Construction ☐ Addition ☐ Other

☐ Alteration ☐ Change of Occupancy

BUILDING USE

☐ Single Use ☐ Mixed Use (Separated) ■ Mixed Use (Non-Separated)

■ Description: Automotive repair garage used for general service on automobiles.

SPRINKLERED

☐ Yes ☐ Partial ■ No

2 Codes

■ 2018 International Building Code
■ 2015 International Energy Conservation Code
■ 2018 International Fire Code
■ 2018 International Fuel Gas Code
■ 2018 International Mechanical Code
■ 2018 International Plumbing Code
■ 2010 ADA Standards
■ 2017 National Electrical Code
■ 2018 NFPA 101

3 Use and Occupancy Classification(s) (2018 IBC)

☐ Assembly Group A-1
☐ Assembly Group A-2
☐ Assembly Group A-3
☐ Assembly Group A-4
☐ Assembly Group A-5
■ Business Group B
☐ Educational Group E
☐ Factory Group F-1
☐ Factory Group F-2
☐ High-Hazard Group H-1
☐ High-Hazard Group H-2
☐ High-Hazard Group H-3
☐ High-Hazard Group H-4
☐ High-Hazard Group H-5
☐ Institutional Group I-1
☐ Institutional Group I-2
☐ Institutional Group I-3
☐ Institutional Group I-4
☐ Mercantile Group M
☐ Residential Group R-1
☐ Residential Group R-2
☐ Residential Group R-3
☐ Residential Group R-4
■ Storage Group S-1
☐ Storage Group S-2
☐ Utility & Misc Group U

4 Special Detailed Requirements Based On Use and Occupancy (2018 IBC)

406.8 Repair Garages

■ Project complies with 406.8 through 406.8.3

413 Combustible Storage

413.1 High-piled storage of combustible materials over 12'-0" or high-hazard commodities over 6'-0"

■ Yes ☐ No

413.2 Storage of combustible materials in attics, under-floor, and concealed spaces

☐ Yes ■ No

414 Hazardous Materials

■ Project complies with 414.2.1 through 414.2.5 (IFC)Control Areas

■ Number of Control Areas Provided: Entire Building is one control area

Location
■ Inside ☐ Outside

Use
■ Open ☐ Closed ■ Storage Only

Types of Hazardous Materials (Table 307.1.(1) of IBC and 3206.2 of IFC)

■ Class IIIB Liquids — ■ Actual Storage per control area: 4040.13 gallons
■ Class IA Flammable Liquids — ■ Actual Storage per control area: 0.94 gallons
■ Class IB Flammable Liquids — ■ Actual Storage per control area: 3.25 gallons

■ High-Hazard Commodities per IFC 2018 3203.6 / 3206.2 (Rubber Tires)
■ Allowable Quantity: 0-500 s.f. ■ Actual Quantity: X≤500 s.f.

5 General Building Heights and Areas (2018 IBC)

504 Building Height and Areas and 506 Building Area (Per Table 504.3, 504.4, and 506.2)

☐ Allowable Building Height = 40'-0" ■ Actual Building Height = 24' - 2 3/4"
☐ Allowable Number of Stories Above Grade Plane = 1 ■ Actual Number of Stories Above Grade Plane = 1
☐ Allowable Area Factor = 9,000 s.f. ■ Actual Area = 7243 s.f. (5877 Main Level + 1366 Pit)

505.3 Equipment Platforms

■ Project complies with 505.3 through 505.3.3

508 Mixed Use and Occupancy

☐ Mixed Use Occupancy (Separated) ■ Mixed Use Occupancy (Non-Separated) ☐ Does not apply

No separation required between Group B and Group S-1 Occupancies

6 Types of Construction (2018 IBC)

601 General and 602 Construction Classification

☐ Type IA ☐ Type IB ☐ Type IIA ☐ Type IIB ☐ Type IIIA
☐ Type IIIB ☐ Type IV ☐ Type VA ■ Type VB

Table 601 Fire Resistance Rating Requirements for Building Elements

Building Elements	Hours Required	Hours Provided
Primary Structural Frame	0	0
Bearing Walls (Exterior)	0	0
Bearing Walls (Interior)	0	N/A
Nonbearing Walls & Partitions (Exterior)	0	0
Nonbearing Walls & Partitions (Interior)	0	0
Floor Construction & Associated Secondary Members	0	0
Roof Construction & Associated Secondary Members	0	0

Table 602 Fire Resistance Requirements for Exterior Walls Based on Fire Separation Distance

Fire Separation Distance	Rear	Right	Front	Left
X < 5				
5 ≤ X < 10				= 10'
10 ≤ X < 30				
X ≥ 30	>30'	>30'	>30'	

X≥30' for Group B and S-1 = 0 hours

10≤X<30' for Group B and S-1 = 0 hours

7 Fire And Smoke Protection Systems (2018 IBC)

718.4 Draftstopping in Attics

■ Yes ☐ No ☐ Not Required

■ Openings in the partitions shall be protected by self-closing doors with automatic latches constructed as required for the partitions.

■ Installed in attics and concealed roof spaces such that any horizontal area does not exceed 3,000 s.f.

8 Interior Finishes (2018 IBC)

Table 803.13 Interior Wall and Ceiling Finish Requirements by Occupancy

Group	Exit Enclosures and Exit Passageways	Corridors	Rooms and Enclosed Spaces
S-1	B	B	C
B	A	B	C

804.4.2 Minimum Critical Radiant Flux

☐ Class I ■ Class II

9 Fire Protection Systems (2018 IBC)

903 Automatic Sprinkler Systems
903.2.9.1 Repair Garages

☐ Yes ☐ Partial ■ Not Required

906 Portable Fire Extinguishers

■ Yes ☐ No
■ Project complies with 906.1 through 906.10
■ Project complies NFPA 10

907 Fire Alarm and Detection System

☐ Yes ■ Not Required

10 Means of Egress (2018 IBC)

DT_2023 FBC Table 1004.5 Maximum Floor Area Allowance Per Occupant (Group S-1)

Occupancy Classification	Name	Number	Area	S.F. Per Occupants	No. of Occupants
S-1	Corridor	7	398 SF	200	1.99
S-1	Oil Change	10	1264 SF	200	6.32
S-1	Tire Storage	12	494 SF	200	2.47
S-1	Service	13	2246 SF	200	11.23
S-1	Pit	14	1235 SF	200	6.18
Subtotal			5638 SF		28.19

Please Note: The Group H-5 Fabrication and Manufacturing Load Factor of 200 square foot per occupant for manufacturing function of space was used for the above calculations because there is not a function of space occupant load factor for Repair Garages.

DT_2023 FBC Table 1004.5 Maximum Floor Area Allowance Per Occupant (Group B)

Occupancy Classification	Name	Number	Area	S.F. Per Occupants	No. of Occupants
B	Service Writing	1	179 SF	150	1.19
B	Waiting	2	198 SF	150	1.32
B	Toilet	3	64 SF	150	0.43
B	Toilet	4	76 SF	150	0.51
B	Break Room	5	172 SF	150	1.15
B	Mech	6	34 SF	300	0.11
B	Storage	8	79 SF	300	0.26
B	Manager	9	103 SF	150	0.69
B	Mech	11	16 SF	300	0.05
Subtotal			921 SF		5.71

10 Means of Egress (2018 IBC)

DT_2023 FBC Sections 1005.3.1 & 1005.3.2 Egress width Stairways and Other Egress Components (Group S-1)

Occupancy Classification	Name	Number	No. of Occupants	Egress - Stairways	Required Stairway Width	Other Egress Components	Required Capacity in Inches
S-1	Corridor	7	1.99				
S-1	Oil Change	10	6.32			0.2	1.26
S-1	Tire Storage	12	2.47			0.2	0.49
S-1	Service	13	11.23				
S-1	Pit	14	6.18	0.3	1.85	0.2	1.24
Subtotal			28.19		1.85		2.99

DT_2023 FBC Table 1005.3.2 Egress width Other Egress Components (Group B)

Occupancy Classification	Name	Number	No. of Occupants	Other Egress Components	Required Capacity in Inches
B	Service Writing	1	1.19	0.2	0.24
B	Waiting	2	1.32	0.2	0.26
B	Toilet	3	0.43	0.2	0.09
B	Toilet	4	0.51	0.2	0.10
B	Break Room	5	1.15	0.2	0.23
B	Mech	6	0.11	0.2	0.02
B	Storage	8	0.26	0.2	0.05
B	Manager	9	0.69	0.2	0.14
B	Mech	11	0.05	0.2	0.01
Subtotal			5.71		1.14

Table 1006.2.1 Spaces with One Exit Or Exit Access Doorway

Occupancy	Max Occupant Load	Number of Exits Required	Max Occupant Load Provided	Number of Exits Provided	Common Path of Travel Allowable (Nonsprinkled)	Common Path of Travel Provided (Nonsprinkled)
S-1	29	1	28.22	6	100'-0"	<100'-0"
B	49	1	5.76	2	100'-0"	<100'-0"

Table 1006.3.2 Minimum Number of Exits or Access to Exits Per Story

Occupant Load Per Story	Minimum Number of Exits or Access to Exits from Story	Number of Exits or Access to Exits from Story Provided
1-500	2	8

Table 1006.3.2(1) Stories with One Exit Or Access to One Exit

Occupancy	Story	Max Occupant Load per Story	Maximum Common Path of Travel Allowed (Nonsprinkled)	Common Path of Travel Provided Max. (Nonsprinkled)
S	First story above or below grade plane	29	75'-0"	75'-0"

Table 1017.2 Exit Access Travel Distance

Occupancy	Without Sprinkler System (Feet)	With Sprinkler System	Max Travel Distance Allowable (Feet)	Max Travel Distance Provided (Feet)
S-1	200	N/A	200'-0"	76'-4"
B	200	N/A	200'-0"	56'-5"

12 Interior Environment (2018 IBC)

1207.1 Minimum Room Widths

Habitable spaces are not less than 7 feet in any plan dimension

■ Yes ☐ No

1207.2 Minimum Ceiling Heights

Occupiable spaces, habitable spaces, and corridors have a ceiling height of not less than 7 feet 6 inches. Bathrooms, toilet rooms, kitchens, storage rooms, and laundry rooms have a ceiling height of not less than 7 feet.

■ Yes ☐ No

1208.2 Attic spaces

Opening not less than 20 inches by 30 inches is provided for attic area with clear height over 30 inches. 30" headroom provided at or above access opening

■ Yes ☐ Not Required

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L-Shaped / Right Hand Oil Change / Front Enter
Ocean Springs, Mississippi

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Life Safety / Code Summary

Project number	25046
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29 Plumbing Systems (2018 IBC)

Table 2902.1 Minimum Number of Required Plumbing Fixtures

DT_Plumbing Fixture_Group S-1												
Total Occupant Load	Male	Female	Required Water Closets		Water Closets Provided	Required Lavatories		Lavatories Provided	Required Drinking Fountains	Drinking Fountains Provided	Required Service Sinks	Service Sinks Provided
			Male	Female		Male	Female					
28.22	14.11	14.11	0.14	0.14	1	0.14	0.14	1	0.03	1	1	1

DT_Plumbing Fixture_Group B												
Total Occupant Load	Male	Female	Required Water Closets		Water Closets Provided	Required Lavatories		Lavatories Provided	Required Drinking Fountains	Drinking Fountains Provided	Required Service Sinks	Service Sinks Provided
			Male	Female		Male	Female					
5.76	2.88	2.88	0.12	0.12	1	0.07	0.07	1	0.06	1	1	1

2902.2 Separate Facilities

Separate facilities provided for each sex

☐ Yes ■ Not Required per 2902.2 Exception 2

2902.2.1 Family or assisted use toilet facilities serving as separate facilities

■ Yes ☐ No ☐ Not Required

2902.3 Employee and public toilet facilities

■ Employee toilet combined with public toilet facilities

2902.3.1 Access

Route to public toilet facilities does not pass through kitchens, storage rooms, or closets and is accessible.

■ Yes ☐ No

2902.3.3 Location of toilet facilities in occupancies other than covered mall buildings

Located not more than one story above or below the space required to be provided with toilet facilities

■ Yes ☐ No

Path of travel to such facilities does not exceed 500 feet

■ Yes ☐ No

2902.4 Signage

■ Yes ☐ No

Legible sign designating the sex provided in visible location near entrance to toilet facility

☐ Yes ■ Not Required per 2902.2.1

Plumbing Fixture Notes:
(1) High / Low drinking fountain provided for the entire building.
(1) Service Sink provided for the entire building.
(2) Family Assisted-Use Toilet Room each containing (1) lavatory and (1) water closet provided for the entire building.

5 Fire Service Features (2018 IFC)

505.1 Address Identification

■ Yes ☐ No ☐ Not Required

■ Project complies 505.1 Address Identification

506 Key Boxes

■ Yes ☐ No ☐ Not Required

■ Project complies 506.1 Where Required

23 Motor Fuel-Dispensing Facilities and Repair Garages (2018 IFC)

2311.2.2 Waste oil, motor oil and other Class IIIB Liquids

■ Project complies with 2311.2.2 Waste oil, motor oil and other Class IIIB liquids.

2311.2.2.1 Tank Location

■ Project complies with 2311.2.2.1 tank location ☐ Not Applicable

2311.2.3 Drainage and disposal of liquid and oil-soaked waste

☐ Yes ☐ No ■ Not Required

■ Garage floors do not contain floor drains.

2311.4 Below-grade areas

■ Project complies with 2311.4.1 through 2311.4.3 ☐ Not Applicable

2311.7 Fire Extinguishers

■ Project complies with 2311.7 fire extinguishers (See Section 9 Fire Protection Systems)

32 High Piled Combustible Storage (2018 IFC)

3203.6 High-hazard commodities

■ Yes ☐ No

■ Project does contain high-hazard commodities (Rubber Tires)

Definitions per Chapter 2 of the International Fire Code

High-piled Combustible Storage. Storage of combustible materials in closely packed piles or combustible materials on pallets, in racks or on shelves where the top of storage is greater than 12'-0" in height. When required by the fire code official, high-piled combustible storage also includes certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets, and similar commodities, where the top of storage is greater than 6'-0" in height.

■ Project does contain high piled combustible storage over 6'-0" (<500 s.f. of rubber tire storage over 6 feet high).

Table 3206.2 General Fire Protection and Life Safety Requirements

Commodity Class	Size of High Piled Storage Area	All Storage Areas			
		Automatic Fire Extinguishing System	Fire Detection System	Building Access	Smoke and Heat Removal
High Hazard	0-500 s.f.	Not Required	Not Required	Not Required	Not Required

Solid-Piled Storage, Shelf Storage and Palletized Storage			
Max. Pile Dimension (Feet)	Max. Permissible Storage Height (Feet)	Max. Pile Volume (Cubic Feet)	
60 feet	Not Required	Not Required	

34 Tire Rebuilding and Tire Storage (2018 IFC)

3409 Indoor Storage Arrangement

■ Project complies with 3409.1 Pile Dimensions

■ Pile dimension less than 50'-0" in direction of wheel hole.

■ Tires stored adjacent to or along one wall shall not extend more than 25'-0" from that wall.

50 Hazardous Materials - General Provisions (2018 IFC)

Table 5003.1.1 (1) Maximum Allowable Quantity Per Control Area of Hazardous Materials Posing a Physical Hazard

■ Project complies with Table 5003.1.1 (1).

■ Project contains Class IIIB Liquid Storage that does not exceed 13,200 liquid gallons per control area.

■ Project contains Class IIIB Liquid Open-System that does not exceed 3,300 liquid gallons per control area.

■ Project contains Flammable Liquid IA Storage that does not exceed 30 liquid gallons per control area.

■ Project contains Flammable Liquid IA Open System that does not exceed 10 liquid gallons per control area.

■ Project contains Flammable Liquid IB Storage that does not exceed 120 liquid gallons per control area.

■ Project contains Flammable Liquid IB Open System that does not exceed 30 liquid gallons per control area.

■ Project complies 5003.8.3.1 through 5003.8.3.4

■ Entire building is one single control area.

57 Flammable and Combustible Liquids (2018 IFC)

5703.2 Fire Protection

■ Project complies with 5703.2.1 portable fire extinguishers an hose lines. (See Section 9 Fire Protection Systems).

5703.4 Spill Control and Secondary Containment

■ Not required. Project does not exceed maximum allowable quantity per control area.

■ Though not required, the pit itself acts as a secondary containment. There are no drains in the pit.

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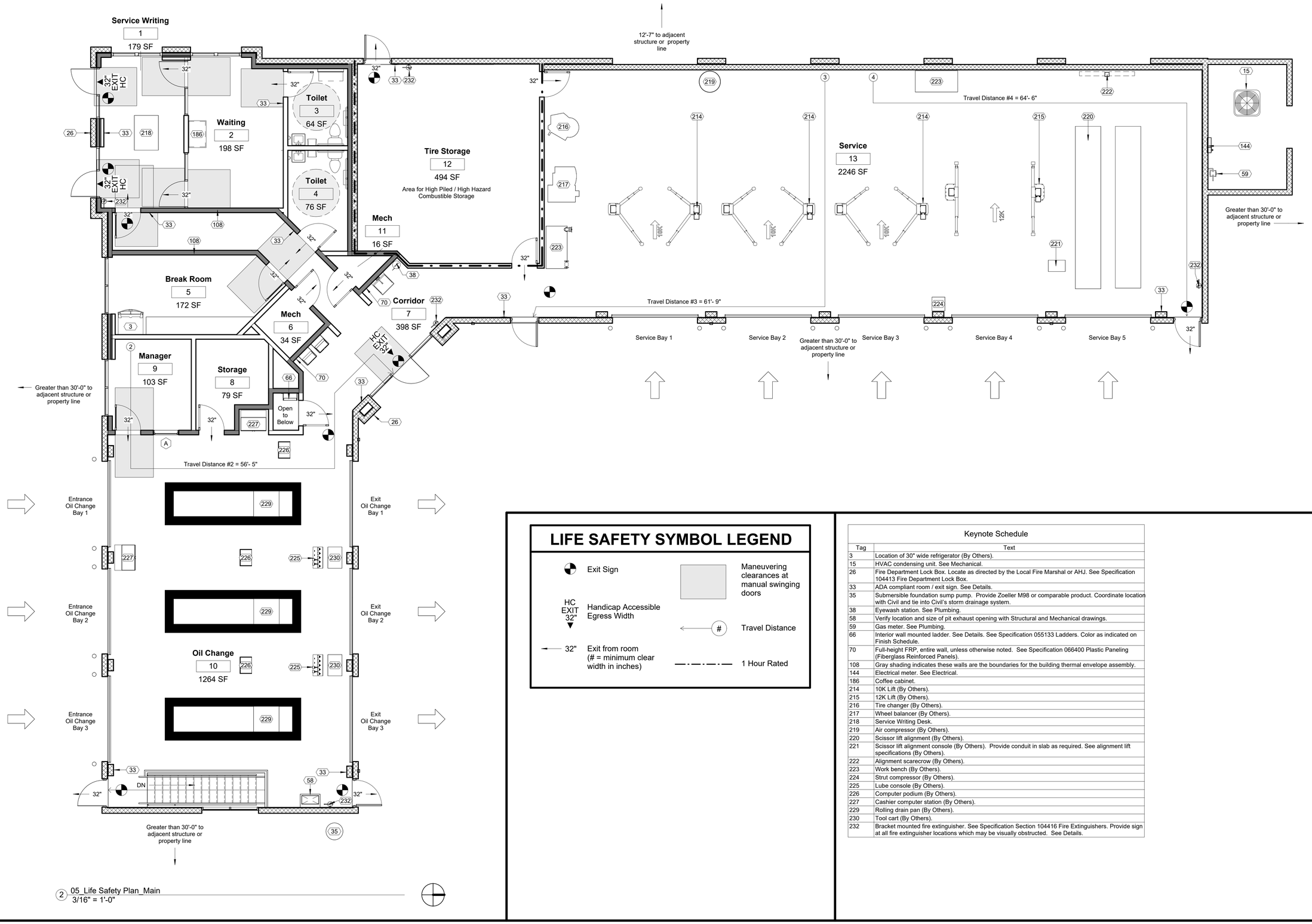
Life Safety / Code Summary

Project number	25046
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Drawn by	MB
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2 05_Life Safety Plan_Main
3/16" = 1'-0"

LIFE SAFETY SYMBOL LEGEND

- Exit Sign
- HC EXIT 32" ▼ — Handicap Accessible Egress Width
- 32" — Exit from room (# = minimum clear width in inches)
- Maneuvering clearances at manual swinging doors
- # — Travel Distance
- 1 Hour Rated

Keynote Schedule

Tag	Text
3	Location of 30" wide refrigerator (By Others).
15	HVAC condensing unit. See Mechanical.
26	Fire Department Lock Box. Locate as directed by the Local Fire Marshal or AHJ. See Specification 104413 Fire Department Lock Box.
33	ADA compliant room / exit sign. See Details.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
38	Eyewash station. See Plumbing.
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
59	Gas meter. See Plumbing.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
70	Full-height FRP, entire wall, unless otherwise noted. See Specification 066400 Plastic Paneling (Fiberglass Reinforced Panels).
108	Gray shading indicates these walls are the boundaries for the building thermal envelope assembly.
144	Electrical meter. See Electrical.
186	Coffee cabinet.
214	10K Lift (By Others).
215	12K Lift (By Others).
216	Tire changer (By Others).
217	Wheel balancer (By Others).
218	Service Writing Desk.
219	Air compressor (By Others).
220	Scissor lift alignment (By Others).
221	Scissor lift alignment console (By Others). Provide conduit in slab as required. See alignment lift specifications (By Others).
222	Alignment scarecrow (By Others).
223	Work bench (By Others).
224	Strut compressor (By Others).
225	Lube console (By Others).
226	Computer podium (By Others).
227	Cashier computer station (By Others).
229	Rolling drain pan (By Others).
230	Tool cart (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.

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Life Safety Plan - Main

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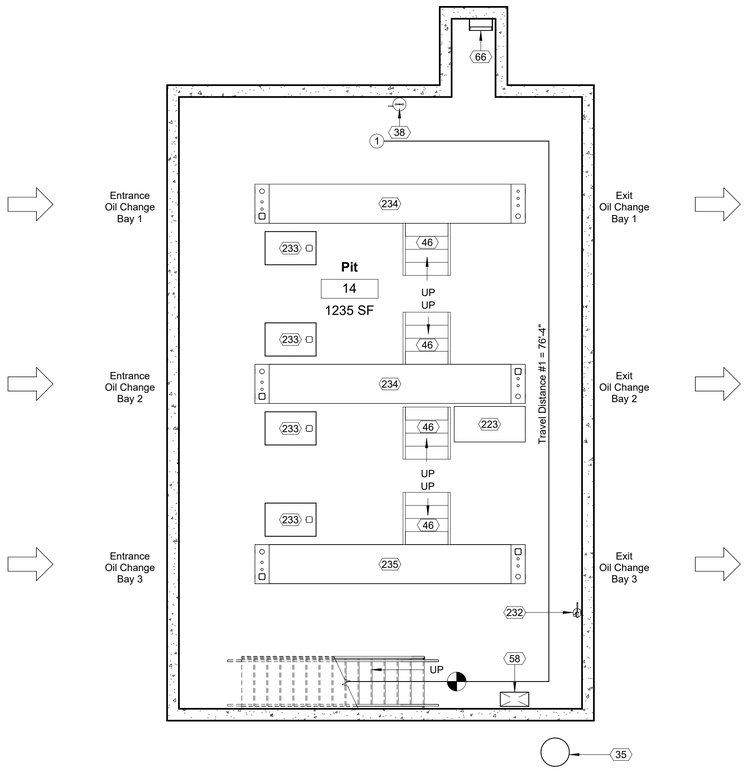
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LIFE SAFETY SYMBOL LEGEND

- Exit Sign
- Maneuvering clearances at manual swinging doors
- HC EXIT 32" ▼ — Handicap Accessible Egress Width
- # — Travel Distance
- 32" — Exit from room (# = minimum clear width in inches)
- 1 Hour Rated

Keynote Schedule	
Tag	Text
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
38	Eyewash station. See Plumbing.
46	Oil tank stairs (By Others).
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
223	Work bench (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
233	275-gallon Class IIIB new oil tank (By Others).
234	928-gallon Class IIIB new oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.
235	928-gallon Class IIIB waste oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.



1 04_Life Safety Plan_Pit
3/16" = 1'-0"

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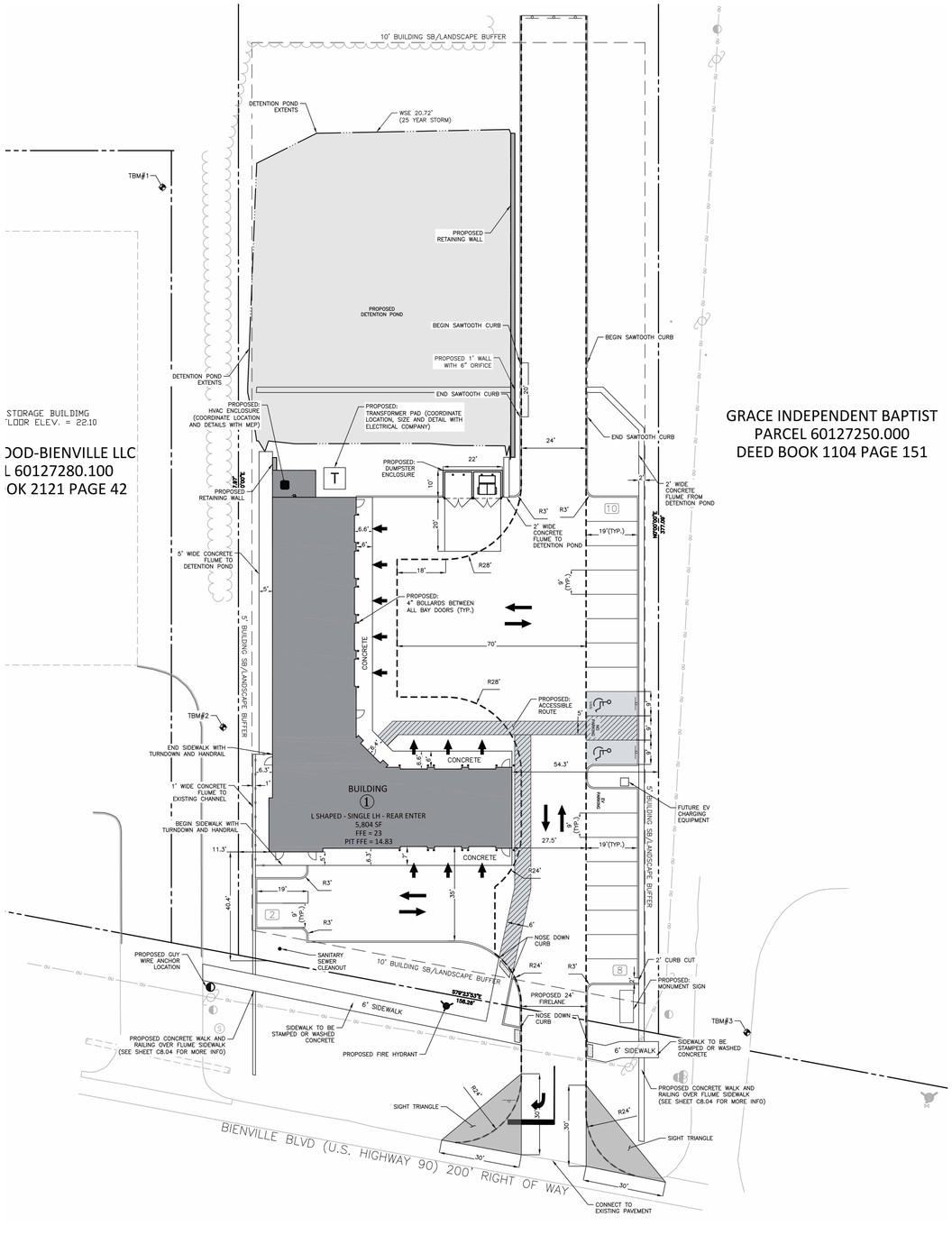
Life Safety - Pit

Project number	25046
Date	4/21/2026
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1 Architectural Site Plan
N.T.S.

Note:

This plan is to show the building as it relates to the site. A complete set of Civil drawings are to be submitted to the AHJ independent of this submittal. Refer to those drawings for actual information.

TRUE NORTH

PLAN NORTH

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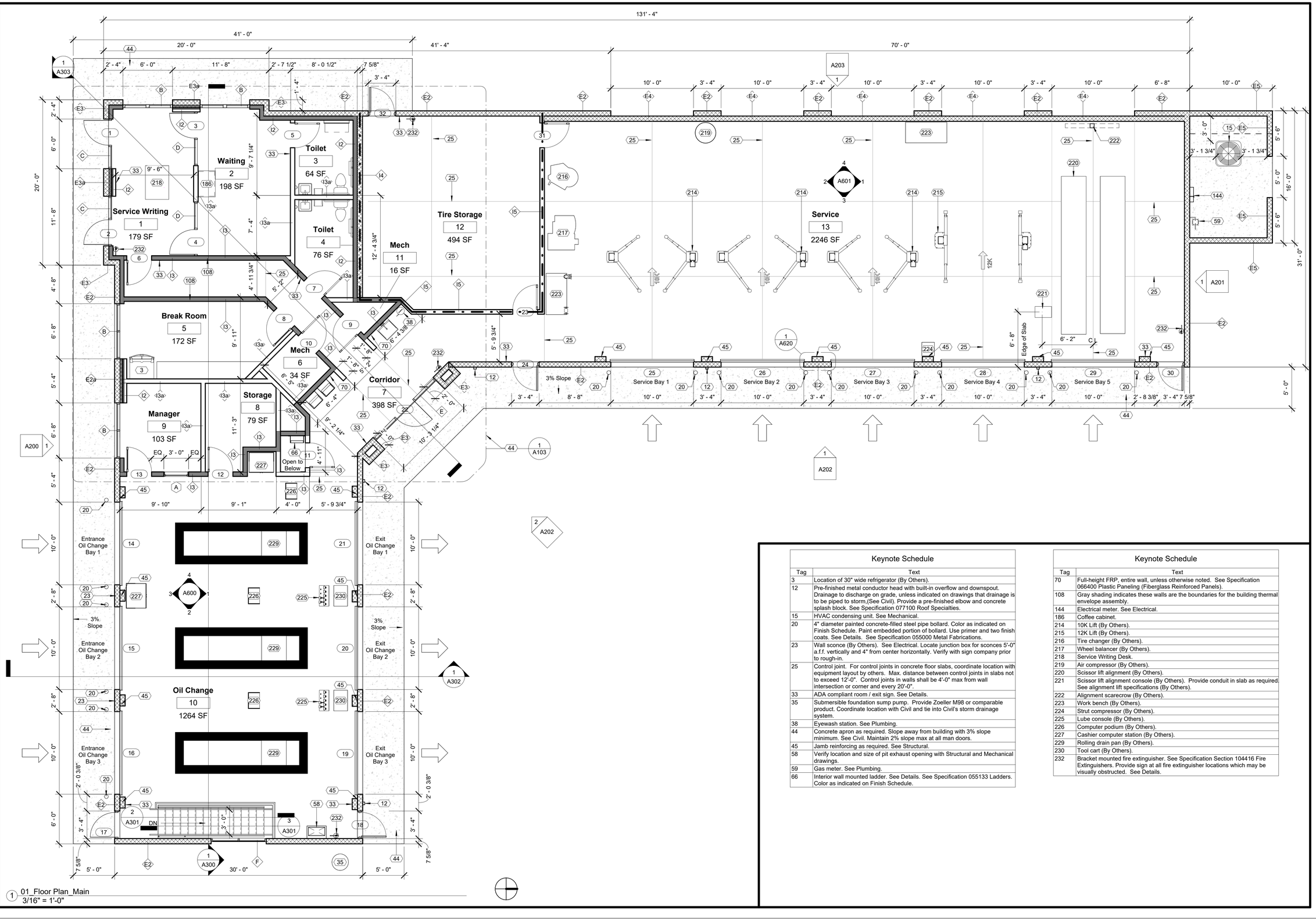
Architectural Site Plan

Project number	25046
Date	4/21/2026
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Checked by	TAA

AS100

Scale N.T.S.

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1 01_Floor Plan_Main
3/16" = 1'-0"

Keynote Schedule

Tag	Text
3	Location of 30" wide refrigerator (By Others).
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
15	HVAC condensing unit. See Mechanical.
20	4" diameter painted concrete-filled steel pipe bollard. Color as indicated on Finish Schedule. Paint embedded portion of bollard. Use primer and two finish coats. See Details. See Specification 055000 Metal Fabrications.
23	Wall sconce (By Others). See Electrical. Locate junction box for sconces 5'-0" a.f.f. vertically and 4" from center horizontally. Verify with sign company prior to rough-in.
25	Control joint. For control joints in concrete floor slabs, coordinate location with equipment layout by others. Max. distance between control joints in slabs not to exceed 12'-0". Control joints in walls shall be 4'-0" max from wall intersection or corner and every 20'-0".
33	ADA compliant room / exit sign. See Details.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
38	Eyewash station. See Plumbing.
44	Concrete apron as required. Slope away from building with 3% slope minimum. See Civil. Maintain 2% slope max at all man doors.
45	Jamb reinforcing as required. See Structural.
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
59	Gas meter. See Plumbing.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.

Keynote Schedule

Tag	Text
70	Full-height FRP, entire wall, unless otherwise noted. See Specification 066400 Plastic Paneling (Fiberglass Reinforced Panels).
108	Gray shading indicates these walls are the boundaries for the building thermal envelope assembly.
144	Electrical meter. See Electrical.
186	Coffee cabinet.
214	10K Lift (By Others).
215	12K Lift (By Others).
216	Tire changer (By Others).
217	Wheel balancer (By Others).
218	Service Writing Desk.
219	Air compressor (By Others).
220	Scissor lift alignment (By Others).
221	Scissor lift alignment console (By Others). Provide conduit in slab as required. See alignment lift specifications (By Others).
222	Alignment scarecrow (By Others).
223	Work bench (By Others).
224	Strut compressor (By Others).
225	Lube console (By Others).
226	Computer podium (By Others).
227	Cashier computer station (By Others).
229	Rolling drain pan (By Others).
230	Tool cart (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.

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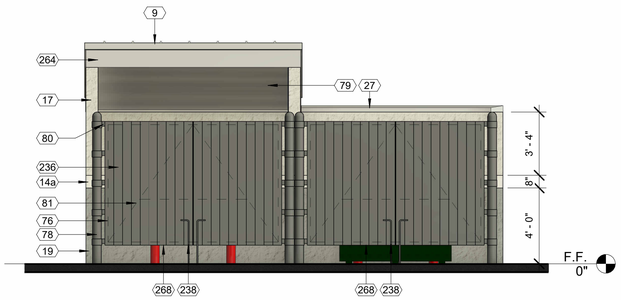
Floor Plan - Main

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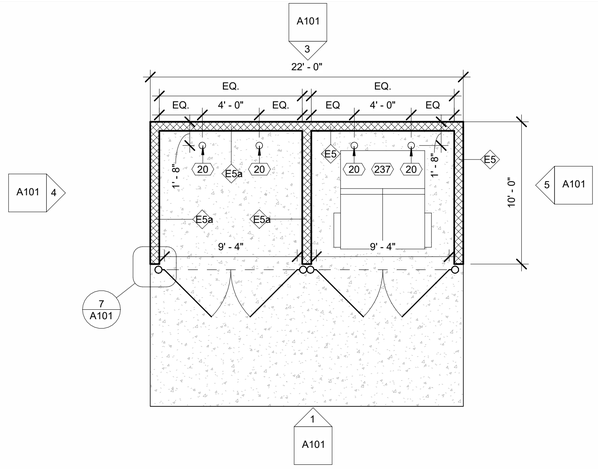
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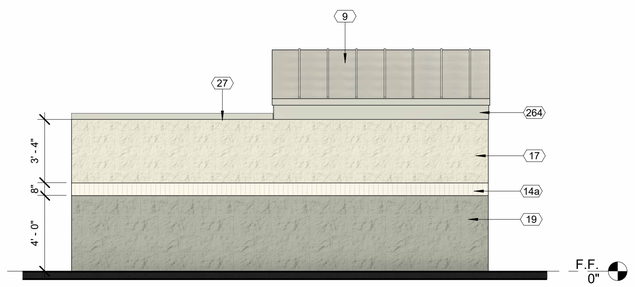
1 06_Dumpster Elevation_A
1/4" = 1'-0"



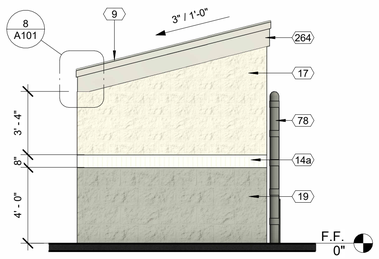
2 02_Floor Plan_Dumpster
3/16" = 1'-0"

Keynote Schedule	
Tag	Text
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
20	4" diameter painted concrete-filled steel pipe bollard. Color as indicated on Finish Schedule. Paint embedded portion of bollard. Use primer and two finish coats. See Details. See Specification 055000 Metal Fabrications.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
34	4" perforated perimeter drain with silt filtration fabric. See Details.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
38	Eyewash station. See Plumbing.
46	Oil tank stairs (By Others).
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
72	Painted concrete cap for pipe bollard. Color as indicated on Finish Schedule.
73	1/2" diameter x 4" long metal studs. Provide a total of 4.
74	1/2" expansion joint with backer rod and sealant.
75	1/4" x 6" painted steel bracket with continuous fillet weld to painted steel collar hinge and frame. Color as indicated on Finish Schedule.

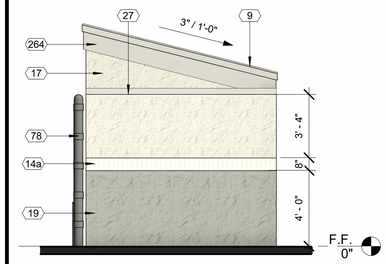
Keynote Schedule	
Tag	Text
76	2" x 2" x 1/4" painted steel gate frame with welded connections. Color as indicated on Finish Schedule.
78	6" diameter painted steel dumpster post. Color as indicated on Finish Schedule.
79	Wrap front face and underside of dumpster roof joists with metal panels to match standing seam metal roof.
80	Hinge collar with grease fitting. Collar welded all around to post. Typical.
81	2" x 2" x 1/4" painted steel cross bracing with horizontal bracing in thirds (beyond). Color as indicated on Finish Schedule.
127	2x pressure treated wood nailer.
130	2 layers of #15 roofing felt.
131	5/8" pressure treated plywood decking. See Structural.
223	Work bench (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
233	275-gallon Class IIIB new oil tank (By Others).
234	928-gallon Class IIIB new oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.
235	928-gallon Class IIIB waste oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.
236	1x6 painted Trex slats secured to frame. See Finish Schedule for color.
237	Dumpster (By Others).
238	Cane bolts with stops.
255	2x pressure treated wood blocking.
264	Prefinished metal fascia / trim, with hemmed drip edge, to match standing seam metal roof.
268	Hold bottom of gate above grade as necessary to clear adjacent curb height to ensure gates can swing 180 degrees. Coordinate with Civil drawings for clearance needed.
281	2x P.T. joists. See Structural.



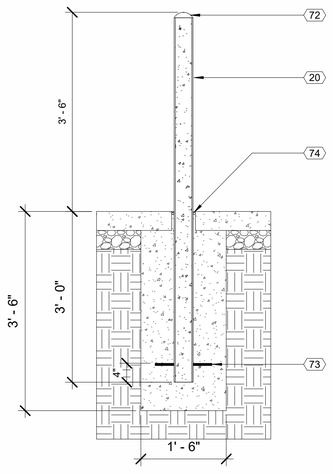
3 08_Dumpster Elevation_C
1/4" = 1'-0"



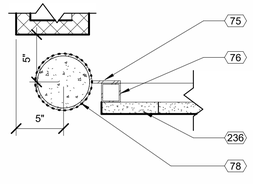
4 07_Dumpster Elevation_B
1/4" = 1'-0"



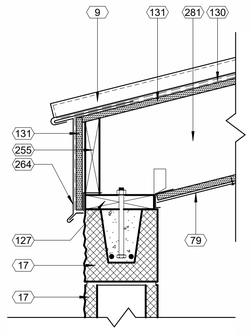
5 09_Dumpster Elevation_D
1/4" = 1'-0"

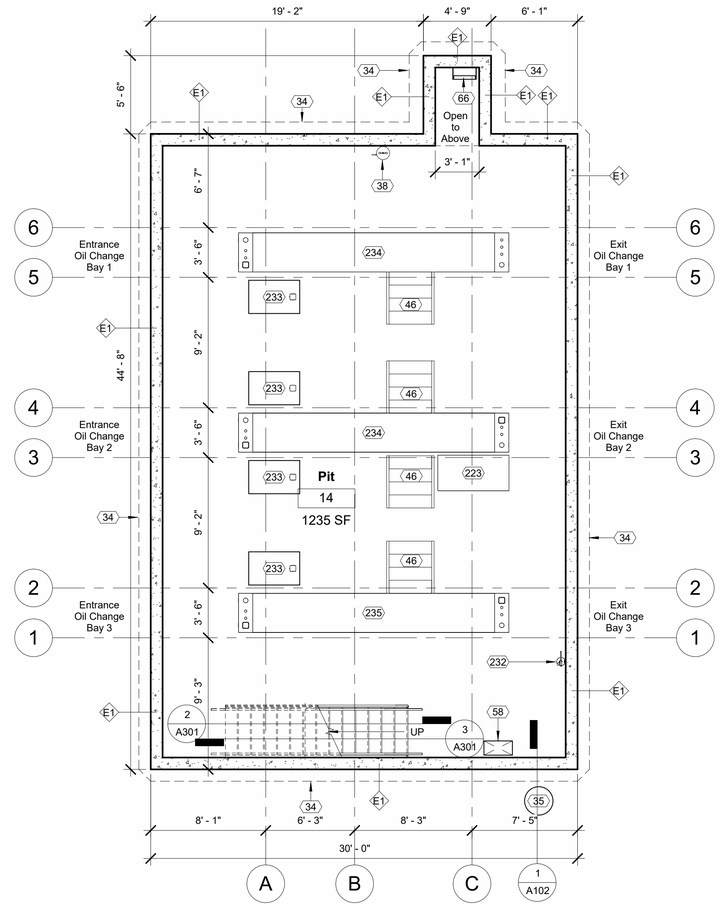


6 DT_Sheet A101_Bollard Detail
3/4" = 1'-0"



7 DT_Sheet A101_Dumpster Detail @ Gate
1 1/2" = 1'-0"





9 00_Floor Plan_Pit
3/16" = 1'-0"

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06/15/2026

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Pit Floor Plan and Site Details

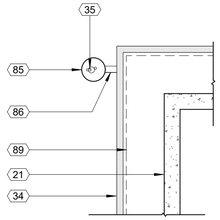
Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

A101

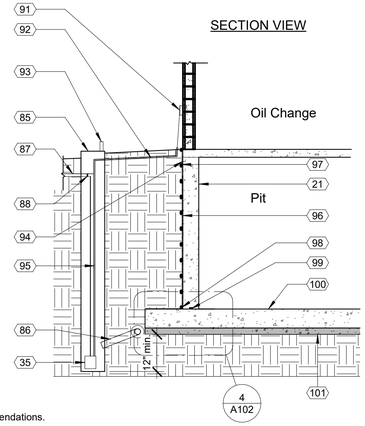
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PLAN VIEW



SECTION VIEW

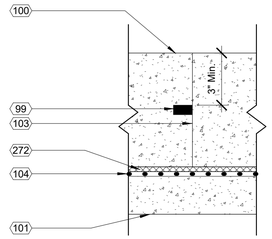


NOTES:

1) Install sump and basin per manufacturer's recommendations.

2) Provide traffic rated lid without vent if located in drive aisle.

1 DT_Sheet A102_Sump Pump Detail w/ Mud Slab
1/4" = 1'-0"

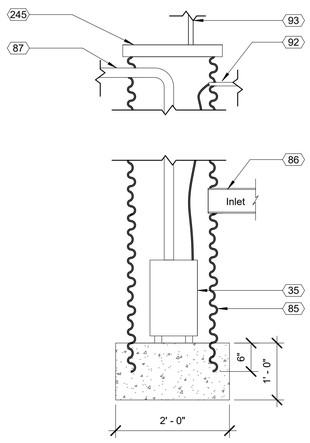


NOTES:

1. Install all waterproofing per manufacturer's recommendations.
2. GC to contact Owner for copy of Geotech Report.

2 DT_Sheet A102_Foundation Construction Joint w/ Mud Slab
1 1/2" = 1'-0"

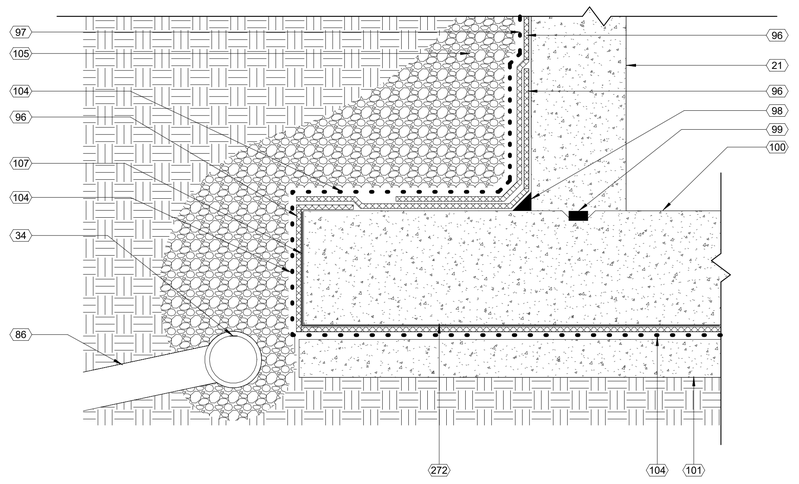
Keynote Schedule	
Tag	Text
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
34	4" perforated perimeter drain with silt filtration fabric. See Details.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
85	18" diameter black corrugated pipe with inlet fittings and solid heavy duty corrugated locking pipe cover set in concrete with power grommet, or Nyloplast drain basin with inlet fittings and lockable cover and power grommet. Contractor's Option. Set pipe in concrete 2'x2'x1'. Embed pipe 6" into concrete.
86	4" discharge pipe to sump pump.
87	2" discharge pipe from sump pump to storm drainage system. Coordinate with Civil.
88	Install union at serviceable depth.
89	Concrete foundation. See Structural.
91	Provide power for sump pump. See Electrical.
92	Power cord for sump pump to be run in conduit from outlet to sump below grade.
93	2" – 3" vent pipe
94	Fasteners at 12" max o.c. for securing subdrainage to pit wall. Follow manufacturer's installation instructions.
95	Pull rope or wire for submersible sump pump.
96	CCW MiraClay woven geotextile against wall/slab.
97	CCW MiraDrain 6200.
98	CCW MiraClay granules or CCW MiraClay mastic.
99	CCW MiraStop BW.
100	Concrete slab. See Structural.
101	4" mud slab if required. See Structural.
103	Construction joint.
104	CCW MiraDrain 9800.
105	3" washed #57 stone wrapped in silt filtration fabric.
107	CCW MiraClay 12" Reinforcing Angle Strip at all outside corners.
245	Lockable cover @ sump pump.
272	CCW MiraClay non-woven geotextile side up.



3 DT_Sheet A102_Sump Pump Section
3/4" = 1'-0"

NOTES:

1. Install all waterproofing and drainage components per manufacturer's recommendations.
2. GC to contact Owner for copy of Geotech Report.
3. See Structural for reinforcing in wall and slab.
4. See Structural for dimensions.



4 DT_Sheet A102_Foundation Waterproofing w/ Gravel Fill w/ Mud Slab
1 1/2" = 1'-0"

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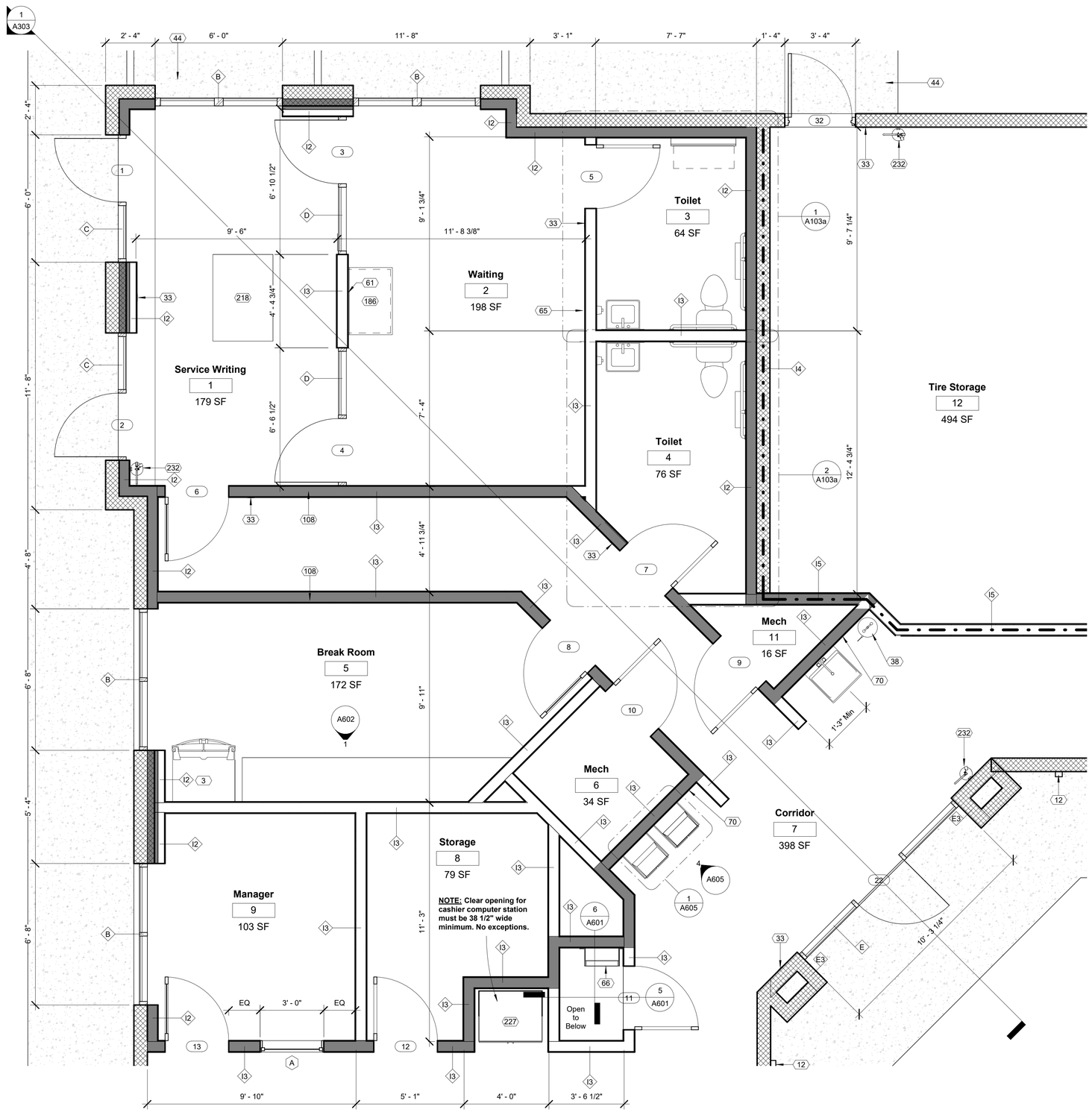
Foundation Details

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A102

Scale: As indicated

6/19/2026 2:32:37 PM



1 08_Enlarged Plan_Main
3/8" = 1'-0"

Keynote Schedule

Tag	Text
3	Location of 30" wide refrigerator (By Others).
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
33	ADA compliant room / exit sign. See Details.
38	Eyewash station. See Plumbing.
44	Concrete apron as required. Slope away from building with 3% slope minimum. See Civil. Maintain 2% slope max at all man doors.
61	Wall mounted T.V. by others. See Electrical.
65	Word Wall. Use extreme bond primer. Graphics (By Others).
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
70	Full-height FRP, entire wall, unless otherwise noted. See Specification 066400 Plastic Paneling (Fiberglass Reinforced Panels).
108	Gray shading indicates these walls are the boundaries for the building thermal envelope assembly.
186	Coffee cabinet.
218	Service Writing Desk.
227	Cashier computer station (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.

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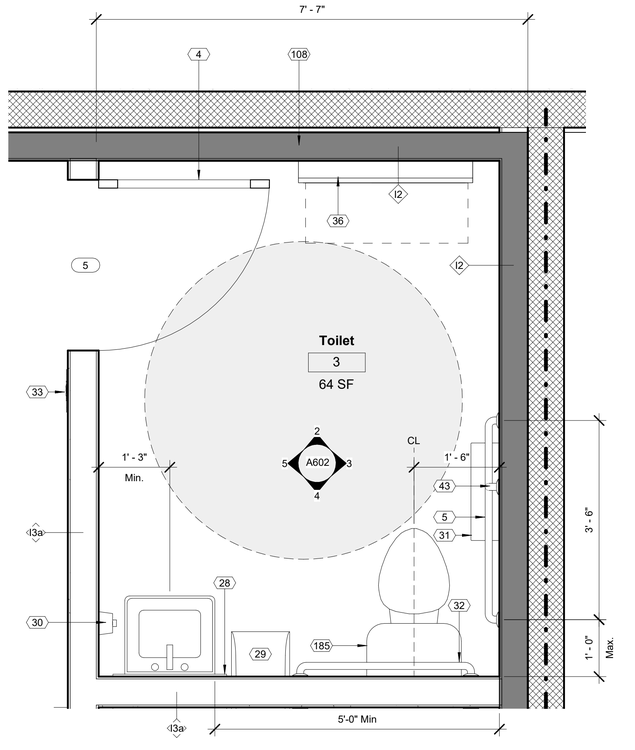
Enlarged Floor Plans and Details

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

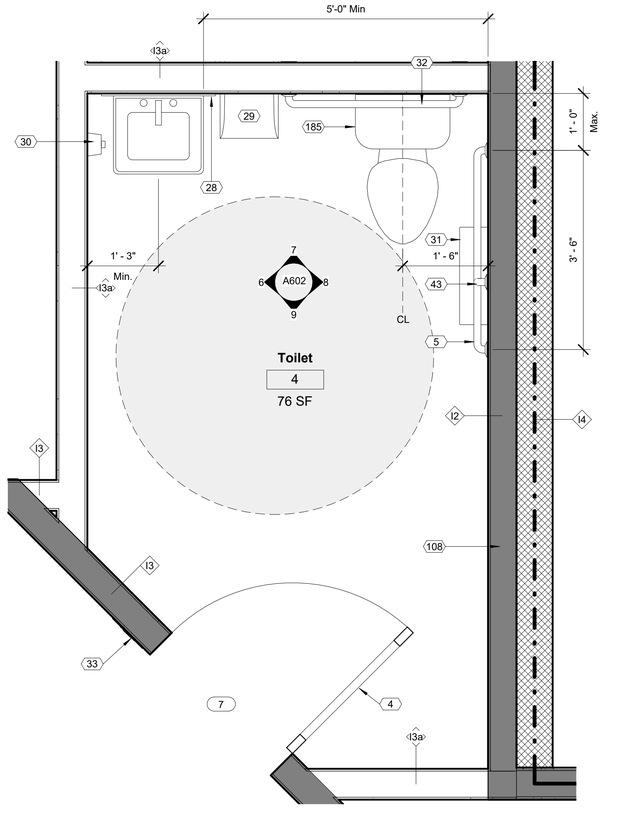
A103

Scale 3/8" = 1'-0"

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1 09_Enlarged Plan_Toilet 3
3/4" = 1'-0"

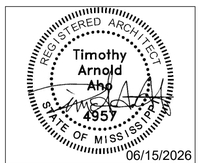


2 10_Enlarged Plan_Toilet 4
3/4" = 1'-0"

Keynote Schedule

Tag	Text
4	Robe hook mounted at 48" A.F.F. See Specification 102800 Toilet, Bath, and Laundry Accessories.
5	42" grab bar with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
28	Framed mirror. See Specification 102800 Toilet, Bath, and Laundry Accessories.
29	Automatic Towel Dispenser (By others). Provide blocking in wall as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
30	Wall mounted soap dispenser (By Others). Provide blocking in wall as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
31	Jumbo Dual Roll Toilet Tissue dispenser (By Others). Provide blocking in wall as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
32	36" grab bar with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
33	ADA compliant room / exit sign. See Details.
36	Surface mounted baby changing station with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
43	24" vertical grab bar with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
108	Gray shading indicates these walls are the boundaries for the building thermal envelope assembly.
185	Flush valve on transfer side of water closet.

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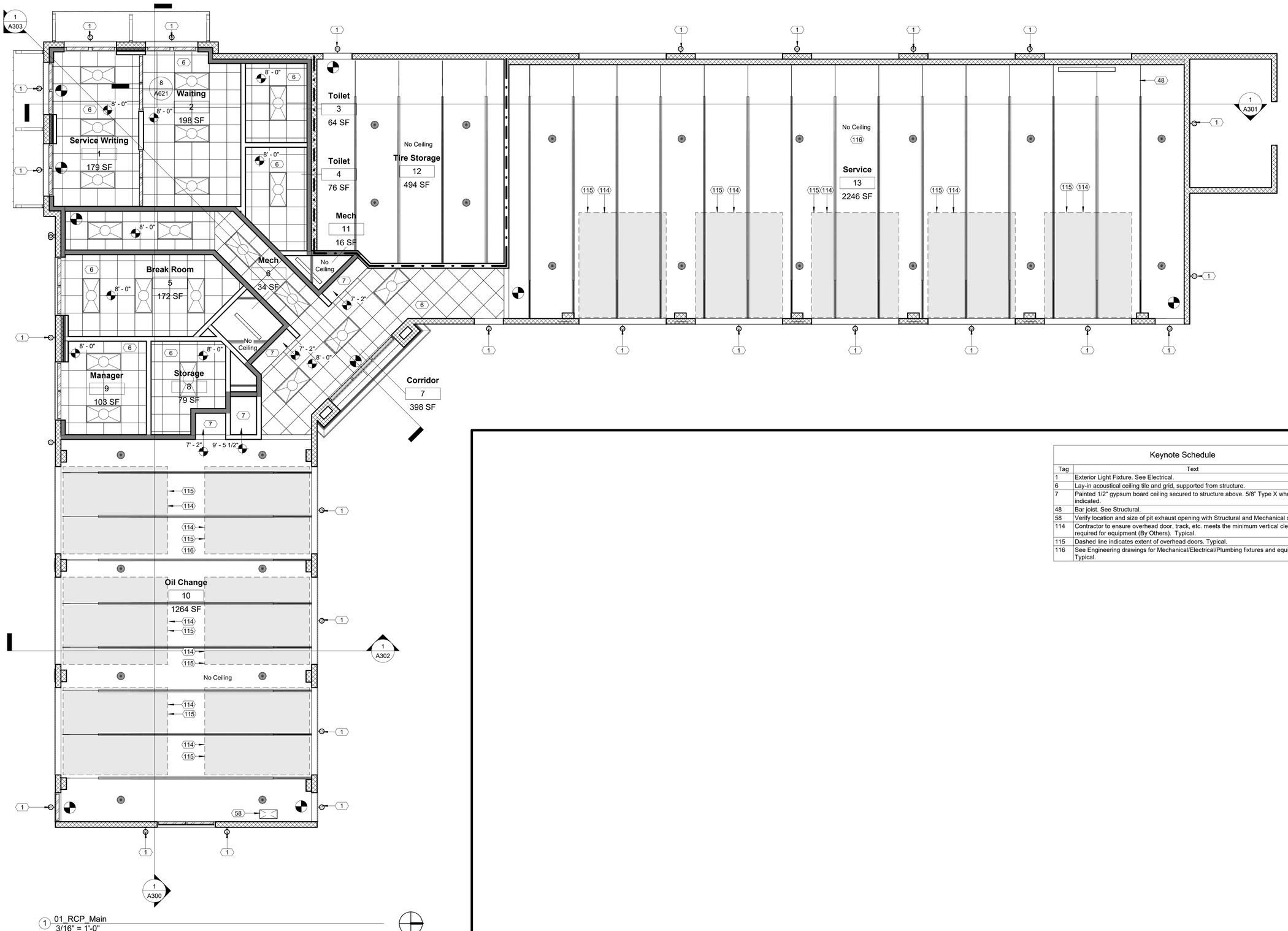
Enlarged Plans and Details

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A103a

Scale 3/4" = 1'-0"

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1 01_RCP_Main
3/16" = 1'-0"

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
6	Lay-in acoustical ceiling tile and grid, supported from structure.
7	Painted 1/2" gypsum board ceiling secured to structure above. 5/8" Type X where indicated.
48	Bar joist. See Structural.
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
114	Contractor to ensure overhead door, track, etc. meets the minimum vertical clearance required for equipment (By Others). Typical.
115	Dashed line indicates extent of overhead doors. Typical.
116	See Engineering drawings for Mechanical/Electrical/Plumbing fixtures and equipment. Typical.

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Reflected Ceiling Plan - Main

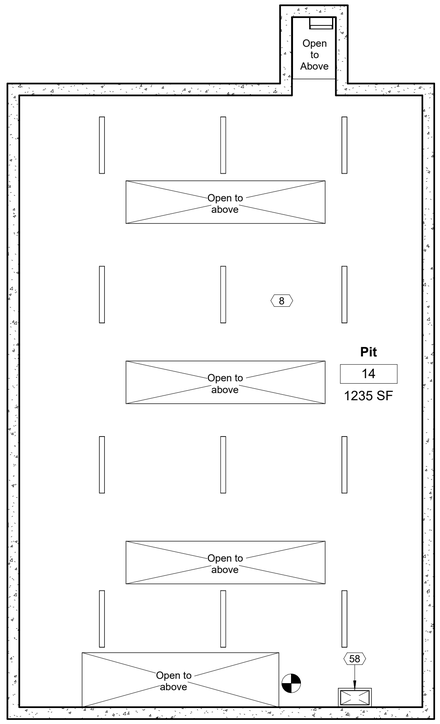
Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A104

Scale 3/16" = 1'-0"

6/19/2026 2:32:40 PM

Keynote Schedule	
Tag	Text
8	Exposed to structure above.
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.



1 00_RCP_Pit
3/16" = 1'-0"

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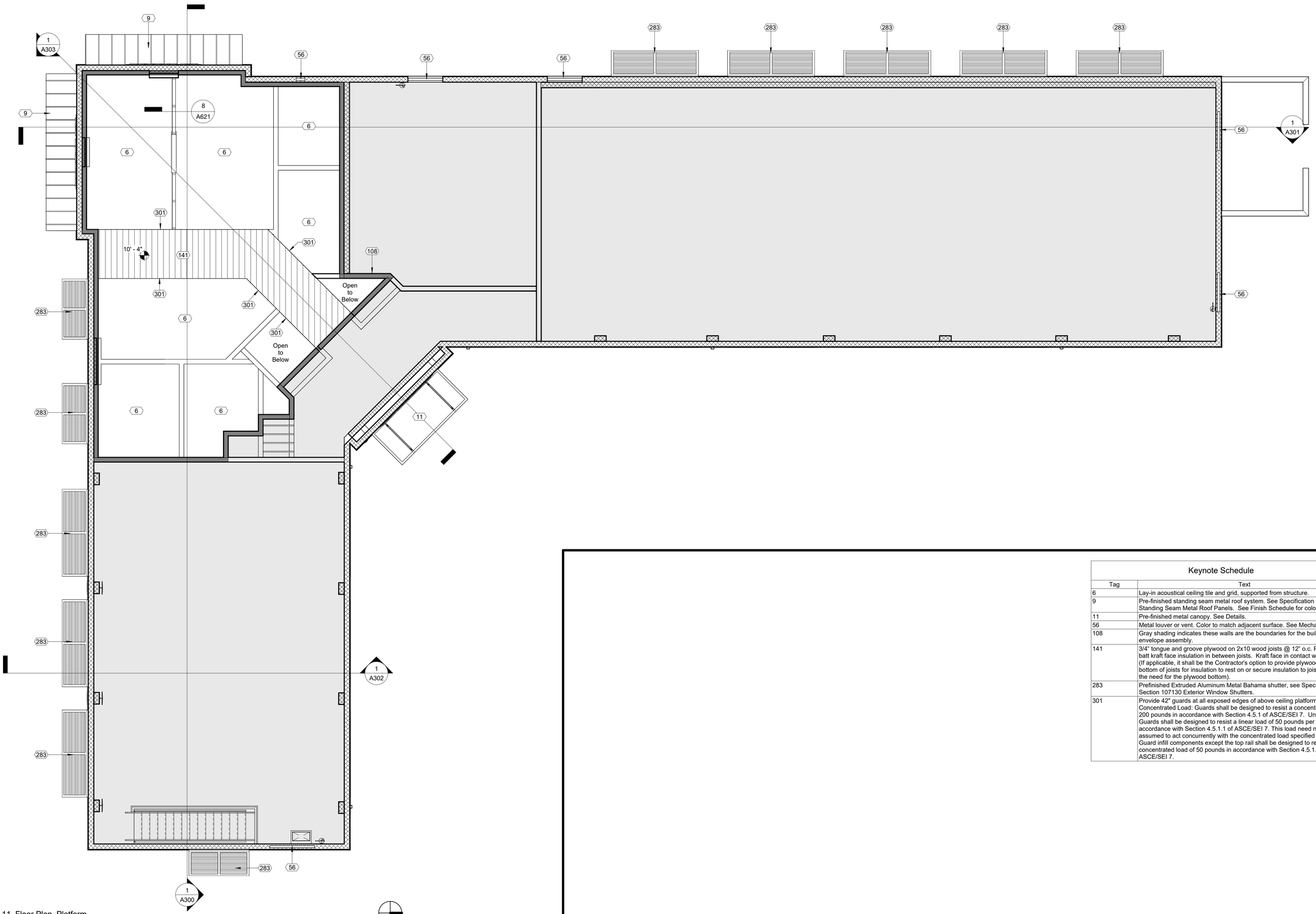
Reflected Ceiling Plan - Pit

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A105

Scale 3/16" = 1'-0"

6/19/2026 2:32:41 PM



1 11_Floor Plan_Platform
3/16" = 1'-0"

Keynote Schedule	
Tag	Text
6	Lay-in acoustical ceiling tile and grid, supported from structure.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
11	Pre-finished metal canopy. See Details.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
108	Gray shading indicates these walls are the boundaries for the building thermal envelope assembly.
141	3/4" tongue and groove plywood on 2x10 wood joists @ 12" o.c. Provide R-38 batt kraft face insulation in between joists. Kraft face in contact with substrate. (If applicable, it shall be the Contractor's option to provide plywood attached to bottom of joists for insulation to rest on or secure insulation to joists without the need for the plywood bottom).
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
301	Provide 42" guards at all exposed edges of above ceiling platforms. Concentrated Load: Guards shall be designed to resist a concentrated load of 200 pounds in accordance with Section 4.5.1 of ASCE/SEI 7. Uniform Load: Guards shall be designed to resist a linear load of 50 pounds per linear foot in accordance with Section 4.5.1.1 of ASCE/SEI 7. This load need not be assumed to act concurrently with the concentrated load specified above. Guard infill components except the top rail shall be designed to resist a concentrated load of 50 pounds in accordance with Section 4.5.1.2 of ASCE/SEI 7.

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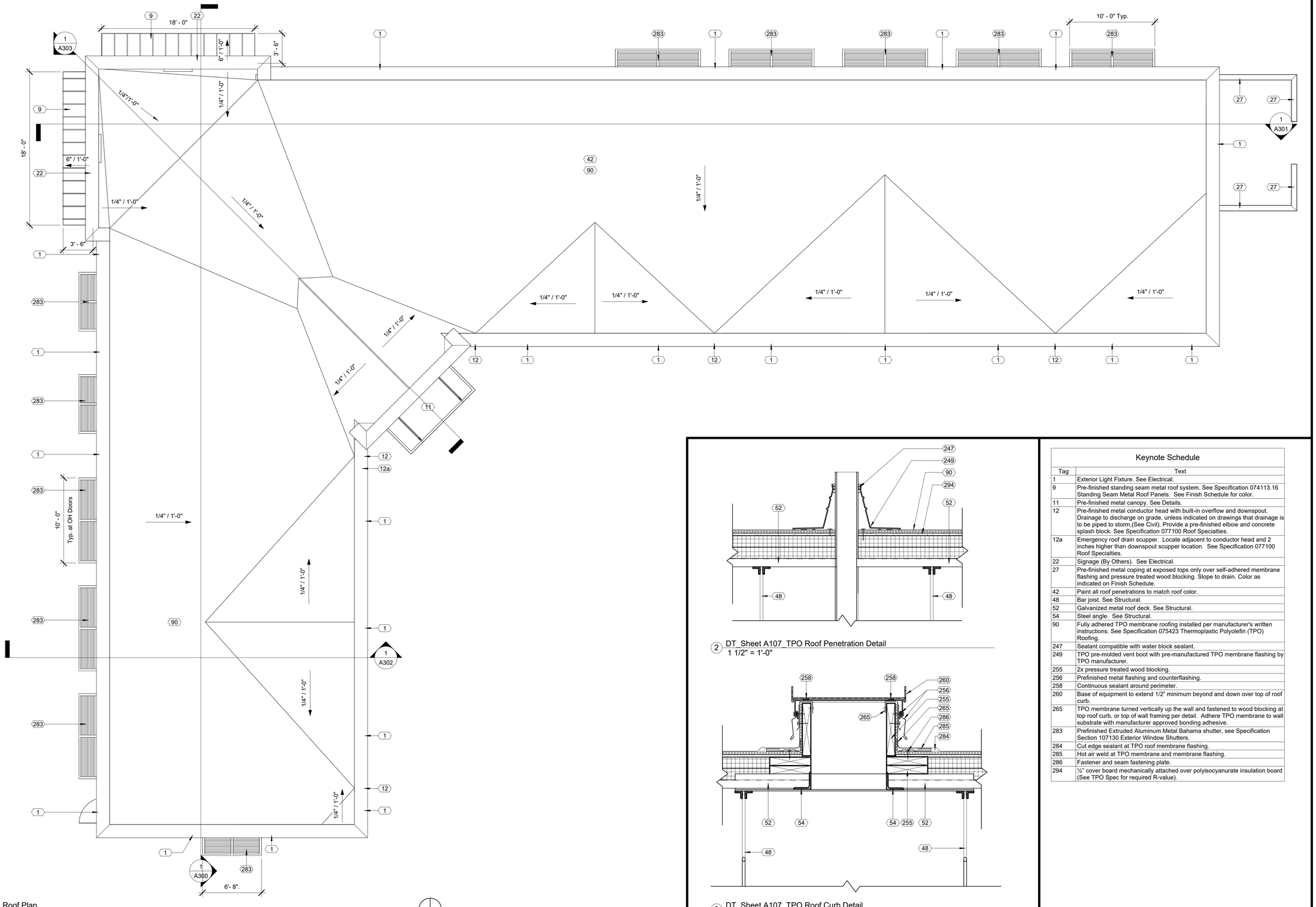
Floor Plan - Platform

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

A106

Scale 3/16" = 1'-0"

6/19/2026 2:32:42 PM



1 03_Roof Plan
3/16" = 1'-0"

2 DT_Sheet A107_TPO Roof Penetration Detail
1 1/2" = 1'-0"

3 DT_Sheet A107_TPO Roof Curb Detail
1 1/2" = 1'-0"

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
11	Pre-finished metal canopy. See Details.
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
12a	Emergency roof drain scupper. Locate adjacent to conductor head and 2 inches higher than downspout scupper location. See Specification 077100 Roof Specialties.
22	Signage (By Others). See Electrical.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
42	Paint all roof penetrations to match roof color.
48	Bar joist. See Structural.
52	Galvanized metal roof deck. See Structural.
54	Steel angle. See Structural.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
247	Sealant compatible with water block sealant.
249	TPO pre-molded vent boot with pre-manufactured TPO membrane flashing by TPO manufacturer.
255	2x pressure treated wood blocking.
256	Prefinished metal flashing and counterflashing.
258	Continuous sealant around perimeter.
260	Base of equipment to extend 1/2" minimum beyond and down over top of roof curb.
265	TPO membrane turned vertically up the wall and fastened to wood blocking at top roof curb, or top of wall framing per detail. Adhere TPO membrane to wall substrate with manufacturer approved bonding adhesive.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
284	Cut edge sealant at TPO roof membrane flashing.
285	Hot air weld at TPO membrane and membrane flashing.
286	Fastener and seam fastening plate.
294	½" cover board mechanically attached over polyisocyanurate insulation board (See TPO Spec for required R-value).

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Roof Plan

Project number	25046
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A107

Scale: As indicated

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EXTERIOR FINISH MATERIAL LEGEND



PAINTED SPLIT-FACE CMU

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams
Keynote: 19



PAINTED SPLIT-FACE CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 17



PAINTED SCORED CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 14a



HM DOORS

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams



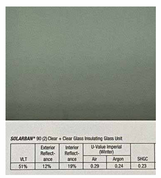
OVERHEAD DOORS

Color: Black
Manuf: OH Door



STOREFRONT DOORS/WINDOWS

Color: Black Anodized Aluminum
Manuf: YKK



TINTED GLAZING

Color: Solarban 90 on Clear
Manuf: Vitro Architectural Glass



PREFINISHED METAL BAHAMA SHUTTERS

Color: Black
Manuf: TBD
Keynote: 283



STANDING SEAM METAL ROOF

Color: CityScape
Manuf: Berridge
Keynote: 9



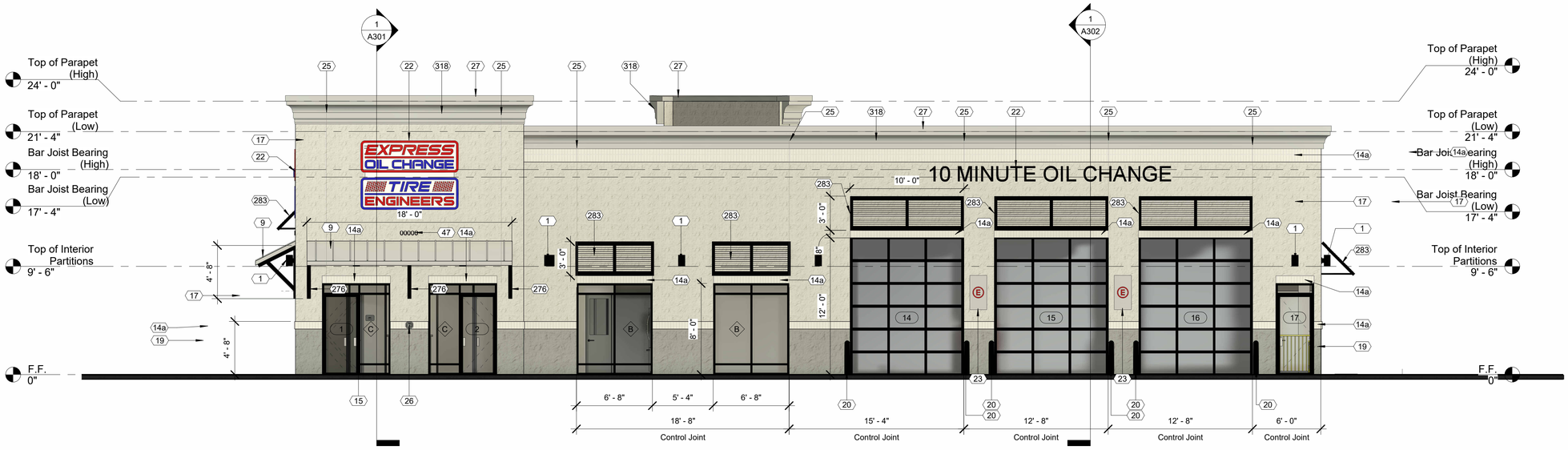
PREFINISHED METAL ROOF COPING

Color: Cityscape
Manuf: Hickman
Keynote: 27



PAINTED BRACKETS AT ENTRY CANOPY

Color: SW6258
Manuf: Sherwin Williams
Keynote: 276



1 01_Exterior Elevation_Front (South)
3/16" = 1'-0"

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
15	HVAC condensing unit. See Mechanical.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
20	4" diameter painted concrete-filled steel pipe bollard. Color as indicated on Finish Schedule. Paint embedded portion of bollard. Use primer and two finish coats. See Details. See Specification 055000 Metal Fabrications.
22	Signage (By Others). See Electrical.
23	Wall sconce (By Others). See Electrical. Locate junction box for sconces 5'-0" a.f.f. vertically and 4" from center horizontally. Verify with sign company prior to rough-in.
25	Control joint. For control joints in concrete floor slabs, coordinate location with equipment layout by others. Max. distance between control joints in slabs not to exceed 12'-0". Control joints in walls shall be 4'-0" max from wall intersection or corner and every 20'-0".
26	Fire Department Lock Box. Locate as directed by the Local Fire Marshal or AHJ. See Specification 104413 Fire Department Lock Box.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
47	Provide address identification as directed by the Local Fire Marshal or AHJ.
276	Tube Steel Canopy Brackets, See details for member sizes. See Specification Section 051200 Structural Steel Framing. Color/finish as indicated on the Finish Schedule.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Exterior Elevation - Front (South)

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A200

Scale 3/16" = 1'-0"

6/19/2026 2:32:48 PM

EXTERIOR FINISH MATERIAL LEGEND



PAINTED SPLIT-FACE CMU

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams
Keynote: 19



PAINTED SPLIT-FACE CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 17



PAINTED SCORED CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 14a



HM DOORS

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams



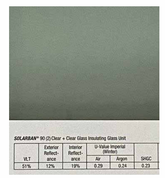
OVERHEAD DOORS

Color: Black
Manuf: OH Door



STOREFRONT DOORS/WINDOWS

Color: Black Anodized Aluminum
Manuf: YKK



TINTED GLAZING

Color: Solarban 90 on Clear
Manuf: Vitro Architectural Glass



PREFINISHED METAL BAHAMA SHUTTERS

Color: Black
Manuf: TBD
Keynote: 283



STANDING SEAM METAL ROOF

Color: CityScape
Manuf: Berridge
Keynote: 9



PREFINISHED METAL ROOF COPING

Color: Cityscape
Manuf: Hickman
Keynote: 27



PAINTED BRACKETS AT ENTRY CANOPY
Color: SW6258
Manuf: Sherwin Williams
Keynote: 276

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
11	Pre-finished metal canopy. See Details.
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
12a	Emergency roof drain scupper. Locate adjacent to conductor head and 2 inches higher than downspout scupper location. See Specification 077100 Roof Specialties.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
20	4" diameter painted concrete-filled steel pipe bollard. Color as indicated on Finish Schedule. Paint embedded portion of bollard. Use primer and two finish coats. See Details. See Specification 055000 Metal Fabrications.
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
22	Signage (By Others). See Electrical.
25	Control joint. For control joints in concrete floor slabs, coordinate location with equipment layout by others. Max. distance between control joints in slabs not to exceed 12'-0". Control joints in walls shall be 4'-0" max from wall intersection or corner and every 20'-0".
26	Fire Department Lock Box. Locate as directed by the Local Fire Marshal or AHJ. See Specification 104413 Fire Department Lock Box.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
47	Provide address identification as directed by the Local Fire Marshal or AHJ.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
276	Tube Steel Canopy Brackets, See details for member sizes. See Specification Section 051200 Structural Steel Framing. Color/finish as indicated on the Finish Schedule.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.



1 02_Exterior Elevation_Rear (North)
3/16" = 1'-0"

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Exterior Elevation - Rear (North)

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A201

Scale 3/16" = 1'-0"

6/19/2026 2:32:53 PM

EXTERIOR FINISH MATERIAL LEGEND



PAINTED SPLIT-FACE CMU

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams
Keynote: 19



PAINTED SPLIT-FACE CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 17



PAINTED SCORED CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 14a



HM DOORS

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams



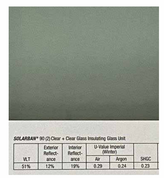
OVERHEAD DOORS

Color: Black
Manuf: OH Door



STOREFRONT DOORS/WINDOWS

Color: Black Anodized Aluminum
Manuf: YKK



TINTED GLAZING

Color: Solarban 90 on Clear
Manuf: Vitro Architectural Glass



PREFINISHED METAL BAHAMA SHUTTERS

Color: Black
Manuf: TBD
Keynote: 283



STANDING SEAM METAL ROOF

Color: CityScape
Manuf: Berridge
Keynote: 9



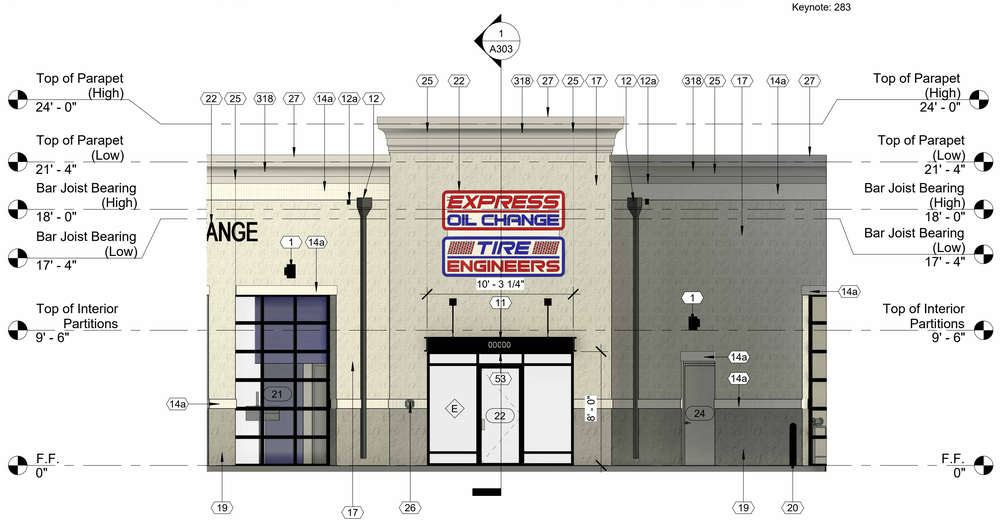
PREFINISHED METAL ROOF COPING

Color: Cityscape
Manuf: Hickman
Keynote: 27

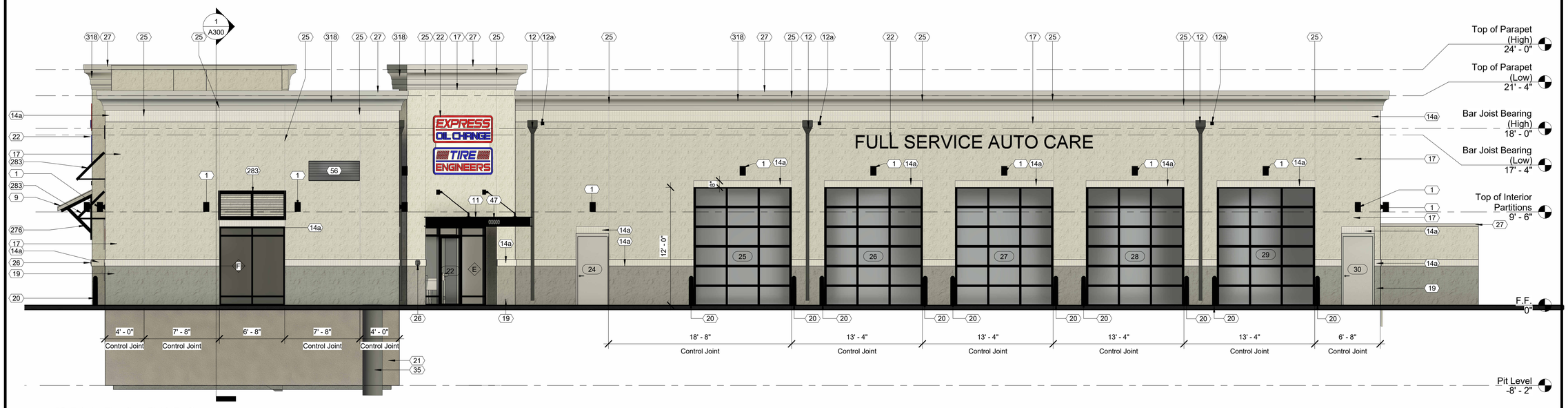


PAINTED BRACKETS AT ENTRY CANOPY

Color: SW6258
Manuf: Sherwin Williams
Keynote: 276



2 05_Exterior Elevation_Rear Entry
3/16" = 1'-0"



1 03_Exterior Elevation_Right (East)
3/16" = 1'-0"

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
11	Pre-finished metal canopy. See Details.
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm.(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
12a	Emergency roof drain scupper. Locate adjacent to conductor head and 2 inches higher than downspout scupper location. See Specification 077100 Roof Specialties.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
20	4" diameter painted concrete-filled steel pipe bollard. Color as indicated on Finish Schedule. Paint embedded portion of bollard. Use primer and two finish coats. See Details. See Specification 055000 Metal Fabrications.
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
22	Signage (By Others). See Electrical.
25	Control joint. For control joints in concrete floor slabs, coordinate location with equipment layout by others. Max. distance between control joints in slabs not to exceed 12'-0". Control joints in walls shall be 4'-0" max from wall intersection or corner and every 20'-0".
26	Fire Department Lock Box. Locate as directed by the Local Fire Marshal or AHJ. See Specification 104413 Fire Department Lock Box.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
47	Provide address identification as directed by the Local Fire Marshal or AHJ.
53	Conduit to be centered horizontally for lights in canopy. Verify with sign company prior to rough-in.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
276	Tube Steel Canopy Brackets. See details for member sizes. See Specification Section 051200 Structural Steel Framing. Color/finish as indicated on the Finish Schedule.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Exterior Elevation - Right (East)

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	N/A

A202

Scale 3/16" = 1'-0"

6/19/2026 2:32:59 PM

EXTERIOR FINISH MATERIAL LEGEND



PAINTED SPLIT-FACE CMU

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams
Keynote: 19



PAINTED SPLIT-FACE CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 17



PAINTED SCORED CMU

Color: SW 7008 Alabaster
Manuf: Sherwin Williams
Keynote: 14a



HM DOORS

Color: SW7650 Ellie Gray
Manuf: Sherwin Williams



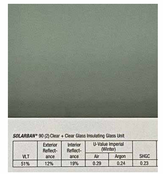
OVERHEAD DOORS

Color: Black
Manuf: OH Door



STOREFRONT DOORS/WINDOWS

Color: Black Anodized Aluminum
Manuf: YKK



TINTED GLAZING

Color: Solarban 90 on Clear
Manuf: Vitro Architectural Glass



PREFINISHED METAL BAHAMA SHUTTERS

Color: Black
Manuf: TBD
Keynote: 283



STANDING SEAM METAL ROOF

Color: CityScape
Manuf: Berridge
Keynote: 9



PREFINISHED METAL ROOF COPING

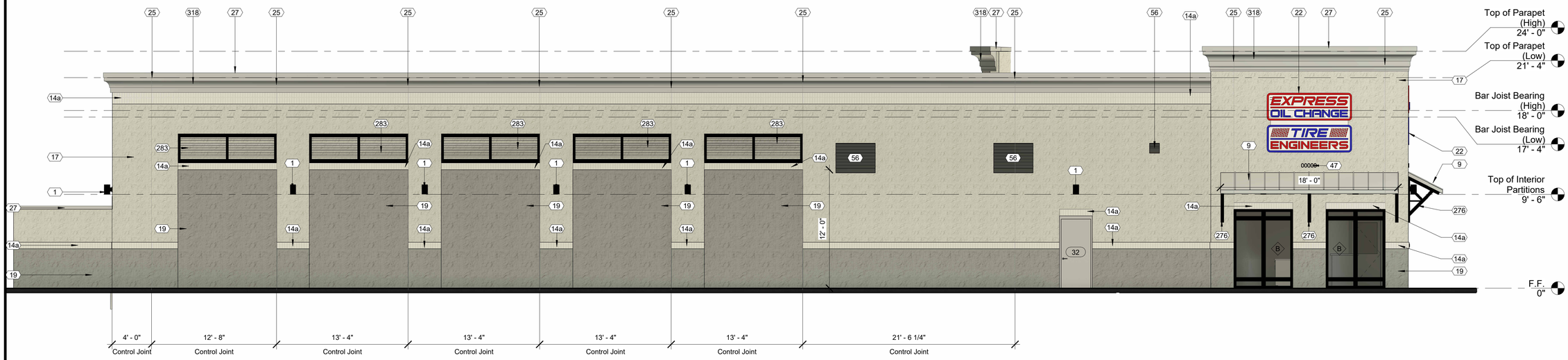
Color: Cityscape
Manuf: Hickman
Keynote: 27



PAINTED BRACKETS AT ENTRY CANOPY
Color: SW6258
Manuf: Sherwin Williams
Keynote: 276

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
22	Signage (By Others). See Electrical.
25	Control joint. For control joints in concrete floor slabs, coordinate location with equipment layout by others. Max. distance between control joints in slabs not to exceed 12'-0". Control joints in walls shall be 4'-0" max from wall intersection or corner and every 20'-0".
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
47	Provide address identification as directed by the Local Fire Marshal or AHJ.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
276	Tube Steel Canopy Brackets, See details for member sizes. See Specification Section 051200 Structural Steel Framing. Color/finish as indicated on the Finish Schedule.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.



1 04_Exterior Elevation_Left (West)
3/16" = 1'-0"

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Exterior Elevation - Left (West)

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A203

Scale 3/16" = 1'-0"

6/19/2026 2:33:03 PM

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
6	Lay-in acoustical ceiling tile and grid, supported from structure.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	<varies>
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
22	Signage (By Others). See Electrical.
25	Control joint. For control joints in concrete floor slabs, coordinate location with equipment layout by others. Max. distance between control joints in slabs not to exceed 12'-0". Control joints in walls shall be 4'-0" max from wall intersection or corner and every 20'-0".
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
33	ADA compliant room / exit sign. See Details.
35	Submersible foundation sump pump. Provide Zoeller M98 or comparable product. Coordinate location with Civil and tie into Civil's storm drainage system.
38	Eyewash station. See Plumbing.
44	Concrete apron as required. Slope away from building with 3% slope minimum. See Civil. Maintain 2% slope max at all man doors.
46	Oil tank stairs (By Others).

Keynote Schedule

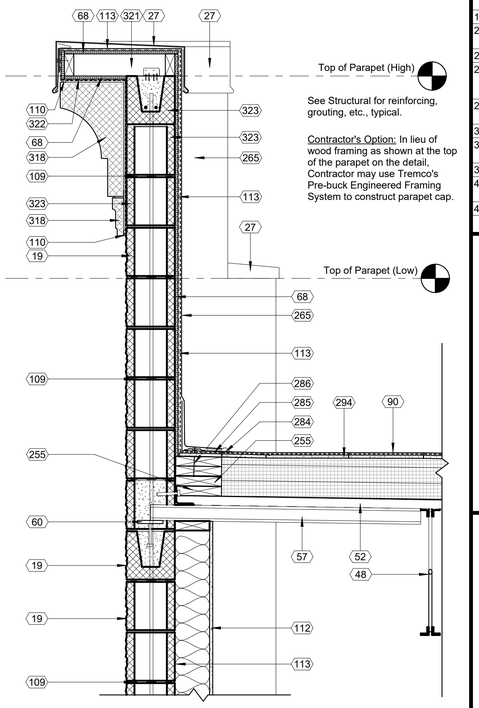
Tag	Text
48	Bar joist. See Structural.
52	Galvanized metal roof deck. See Structural.
54	Steel angle. See Structural.
57	Joist extension. See Structural.
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
60	Steel plate with headed studs. See Structural.
65	Word Wall. Use extreme bond primer. Graphics (By Others).
68	1/2" exterior plywood sheathing.
74	1/2" expansion joint with backer rod and sealant.
89	Concrete foundation. See Structural.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
94	Fasteners at 12" max o.c. for securing subdrainage to pit wall. Follow manufacturer's installation instructions.
96	CCW MiraClay woven geotextile against wall/slab.
97	CCW MiraDrain 6200.
99	CCW MiraStop BW.
100	Concrete slab. See Structural.
109	Horizontal joint reinforcement at 16" o.c. vertical.
110	Sealant with backer rod.
112	Painted 1/2" gypsum board on 2x6 wood studs at 16" o.c. with kraft-face R-20 batt insulation (kraft in contact with gypsum board). See Details.
113	Fluid applied vapor permeable air barrier. See Specification 072726 Fluid Applied Membrane Air Barrier.
136	Pea gravel above through wall flashing.

Keynote Schedule

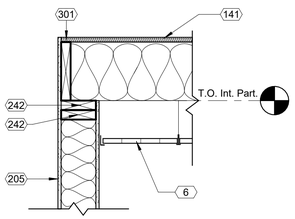
Tag	Text
137	Flashing between first and second course to utilize BlockFlash in addition to the pea gravel specified. Provide a drainage mat in open masonry cell directly above the BlockFlash pan.
138	Drainable weeps at every third mortar joint.
139	10 mil vapor barrier. See Specification 072600 Vapor Retarders.
140	Porous fill. See Geotechnical Report.
141	3/4" tongue and groove plywood on 2x10 wood joists @ 12" o.c. Provide R-38 batt kraft face insulation in between joists. Kraft face in contact with substrate. (If applicable, it shall be the Contractor's option to provide plywood attached to bottom of joists for insulation to rest on or secure insulation to joists without the need for the plywood bottom).
170	Fill first course of CMU with grout.
180	Plastic laminate over 3/4" plywood. See Specification 123623.13 Plastic-Laminate-Clad Countertops. See Finish Schedule for color.
186	Coffee cabinet.
205	1 layer of 1/2" painted gypsum board on both sides of 2'x6" wood studs at 16" o.c. Infill with kraft-faced R-20 batt insulation. Kraft in contact with gypsum board.
223	Work bench (By Others).
225	Lube console (By Others).
226	Computer podium (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
234	928-gallon Class IIIB new oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.
235	928-gallon Class IIIB waste oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.

Keynote Schedule

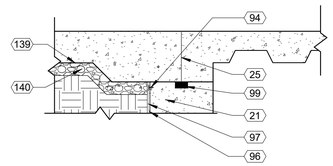
Tag	Text
242	2x pressure treated wood top plate.
255	2x pressure treated wood blocking.
265	TPO membrane turned vertically up the wall and fastened to wood blocking at top roof curb, or top of wall framing per detail. Adhere TPO membrane to wall substrate with manufacturer approved bonding adhesive.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
284	Cut edge sealant at TPO roof membrane flashing.
285	Hot air weld at TPO membrane and membrane flashing.
286	Fastener and seam fastening plate.
294	<varies>
301	Provide 42" guards at all exposed edges of above ceiling platforms. Concentrated Load: Guards shall be designed to resist a concentrated load of 200 pounds in accordance with Section 4.5.1 of ASCE/SEI 7. Uniform Load: Guards shall be designed to resist a linear load of 50 pounds per linear foot in accordance with Section 4.5.1.1 of ASCE/SEI 7. This load need not be assumed to act concurrently with the concentrated load specified above. Guard infill components except the top rail shall be designed to resist a concentrated load of 50 pounds in accordance with Section 4.5.1.2 of ASCE/SEI 7.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.
321	2x pressure treated wood framing spaced at 2'-0" o.c., minimum. Anchor 2x framing into grouted masonry cells using Simpson Strong Tie A23 angle ties. Secure angle ties on each side of framing members using 4 concrete screws on each side.
322	Vapor permeable air and water resistive barrier membrane. See Specification Section 072400 EIFS Exterior Insulation and Finish System.
323	Unpainted smooth-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry.



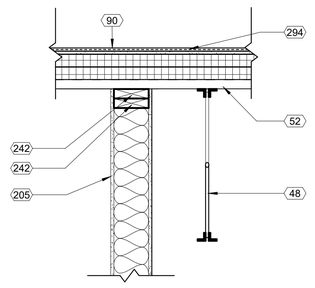
2 DT Sheet A300_(L-Shape)Section thru High Parapet (Side of Front Entry)1
1" = 1'-0"



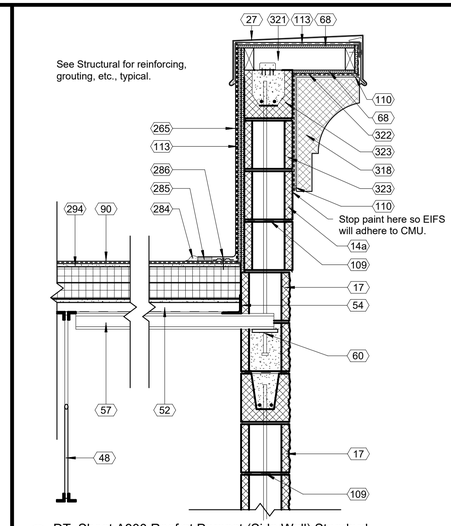
3 DT_Sheet A300_(L-Shape) Wall Detail @ Floor Joist w/ ACT
1" = 1'-0"



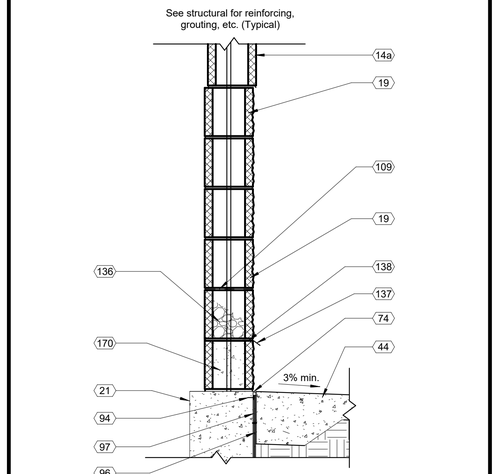
4 DT_Sheet A300_Slab On Grade - Pit Wall Transition1
1" = 1'-0"



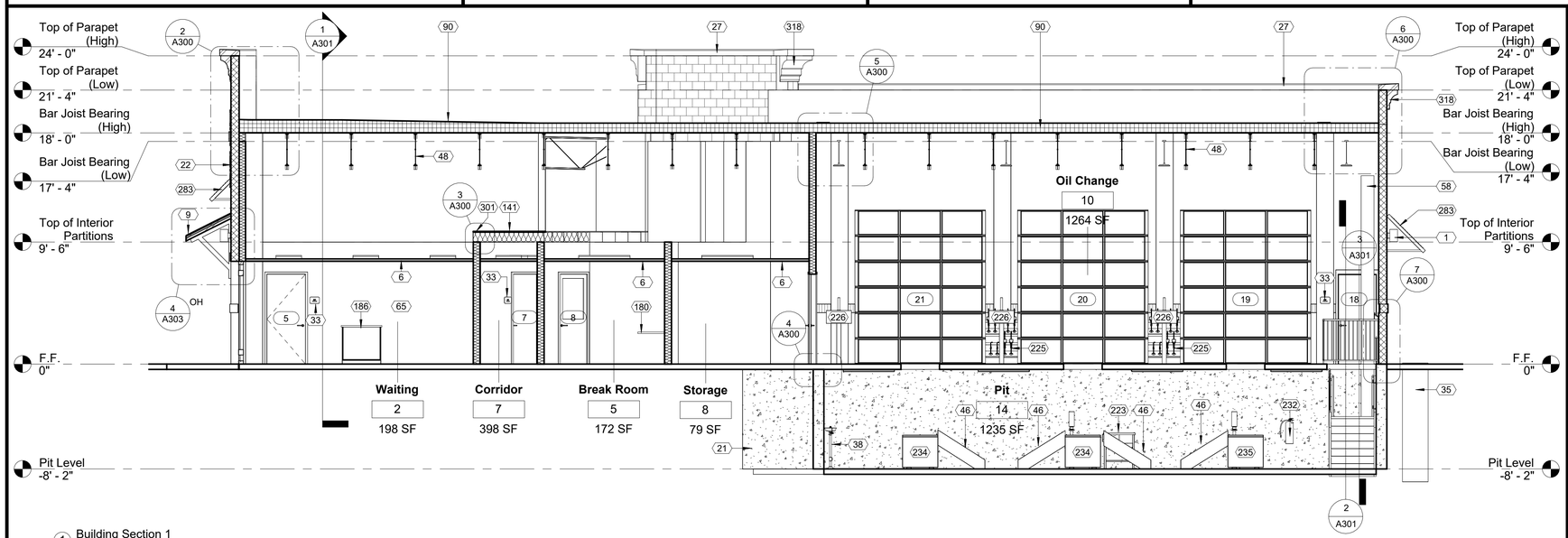
5 DT_Sheet A300_Wall Detail at Roof
1" = 1'-0"



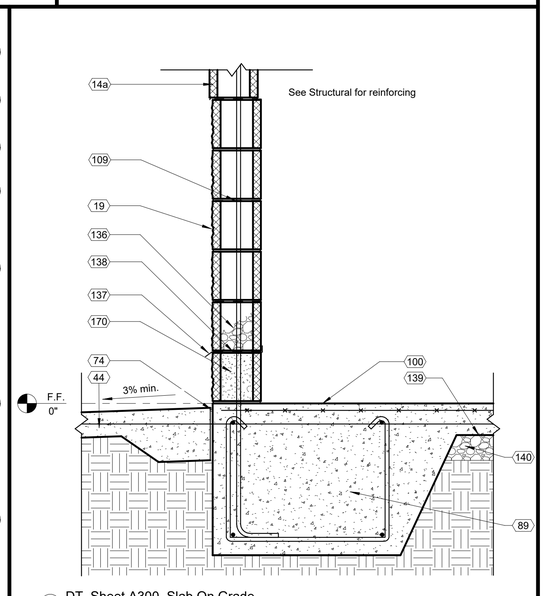
6 DT_Sheet A300 Roof at Parapet (Side Wall) Standard
1" = 1'-0"



7 DT_Sheet A300_Water Table Detail @ Pit Wall Standard
1" = 1'-0"

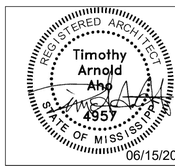


1 Building Section 1
3/16" = 1'-0"



8 DT_Sheet A300_Slab On Grade
1" = 1'-0"

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Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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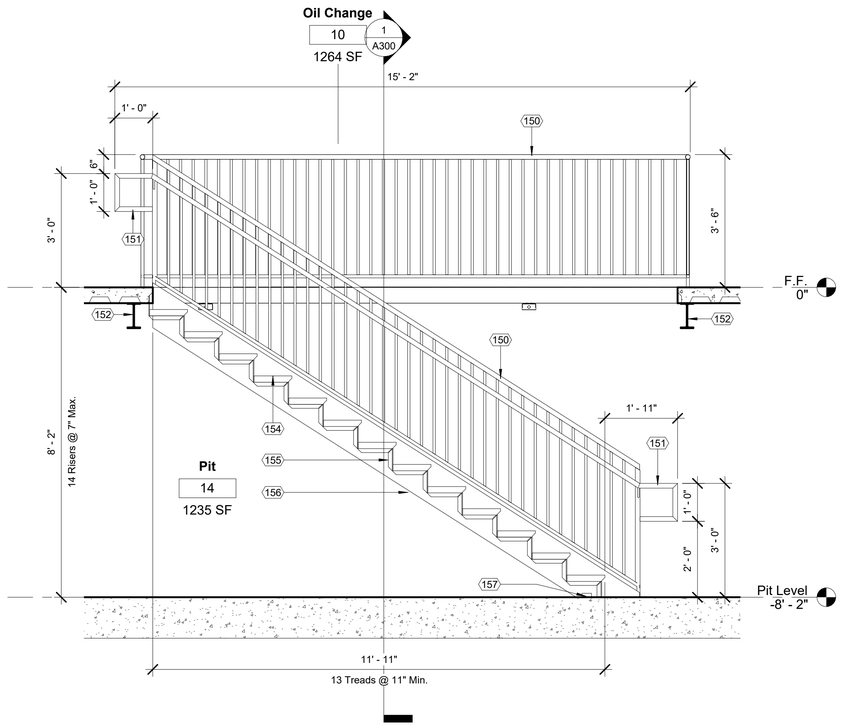
Building Sections

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

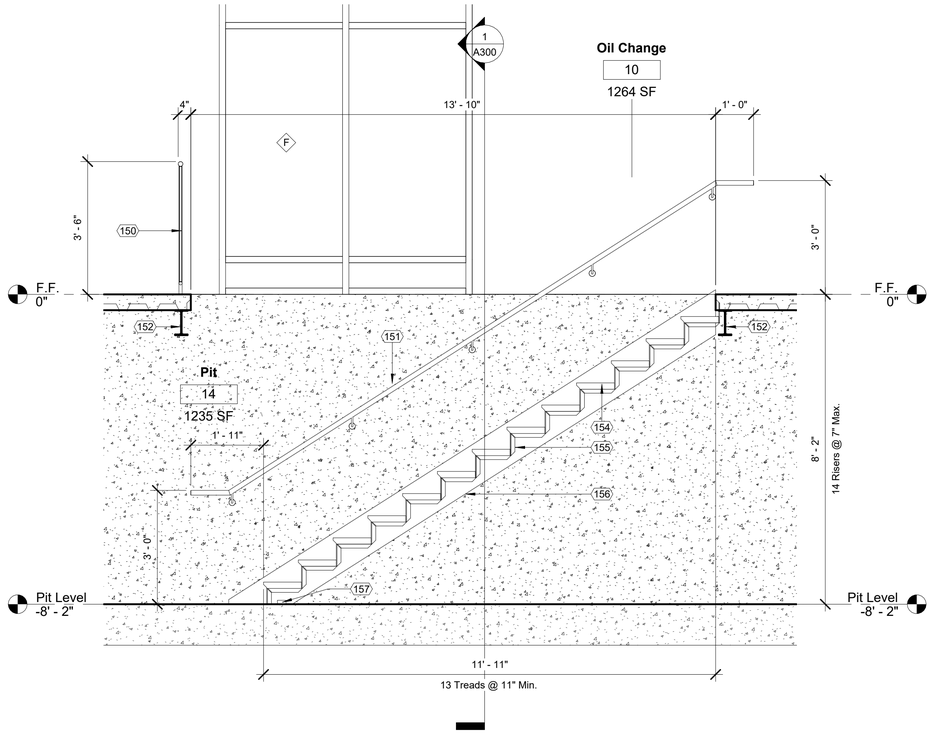
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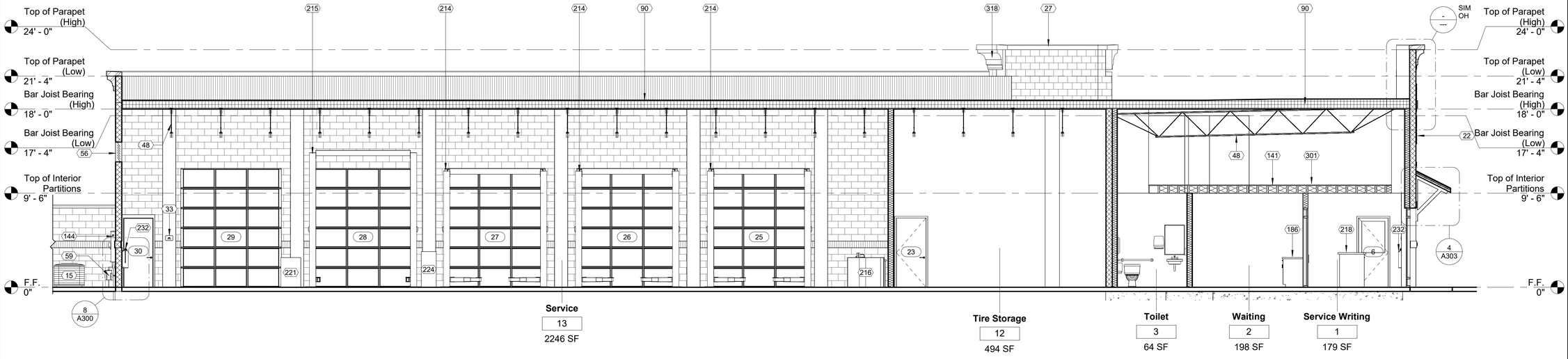


2 Stair Section 1
1/2" = 1'-0"



3 Stair Section 2
1/2" = 1'-0"

Keynote Schedule	
Tag	Text
15	HVAC condensing unit. See Mechanical.
22	Signage (By Others). See Electrical.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
33	ADA compliant room / exit sign. See Details.
48	Bar joist. See Structural.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
59	Gas meter. See Plumbing.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
141	3/4" tongue and groove plywood on 2x10 wood joists @ 12" o.c. Provide R-38 batt kraft face insulation in between joists. Kraft face in contact with substrate. (If applicable, it shall be the Contractor's option to provide plywood attached to bottom of joists for insulation to rest on or secure insulation to joists without the need for the plywood bottom).
144	Electrical meter. See Electrical.
150	Painted guardrail with painted 1/2" round pickets at 4" max o.c. See Finish Schedule for color. See Specification 055213 Pipe and Tube Railings.
151	Painted 1-1/2" outside diameter pipe handrail. Return handrail to guard/wall. Typical. See Finish Schedule for color. See Specification 055213 Pipe and Tube Railings.
152	Paint all structural steel P-5 Safety Yellow.
154	Concrete filled pre-fabricated metal pan stair treads with safety yellow abrasive nosing, full grit, full length, adhered and fastened. Typical. See Finish Schedule for color. See Specification 055113 Metal Pan Stairs.
155	1-1/4" steel angle clips.
156	10" steel channel stringer. See Finish Schedule for color. See Specification 055113 Metal Pan Stairs.
157	3"x3"x3-1/4" angle floor clip.
186	Coffee cabinet.
214	10K Lift (By Others).
215	12K Lift (By Others).
216	Tire changer (By Others).
218	Service Writing Desk.
221	Scissor lift alignment console (By Others). Provide conduit in slab as required. See alignment lift specifications (By Others).
224	Strut compressor (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
301	Provide 42" guards at all exposed edges of above ceiling platforms. Concentrated Load: Guards shall be designed to resist a concentrated load of 200 pounds in accordance with Section 4.5.1 of ASCE/SEI 7. Uniform Load: Guards shall be designed to resist a linear load of 50 pounds per linear foot in accordance with Section 4.5.1.1 of ASCE/SEI 7. This load need not be assumed to act concurrently with the concentrated load specified above. Guard infill components except the top rail shall be designed to resist a concentrated load of 50 pounds in accordance with Section 4.5.1.2 of ASCE/SEI 7.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.



1 Building Section 2
3/16" = 1'-0"

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Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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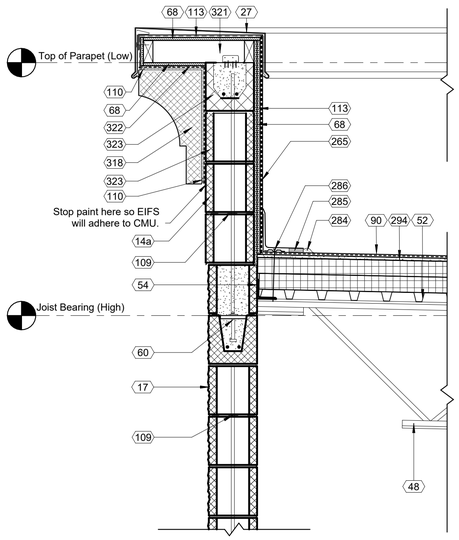
Building Sections

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

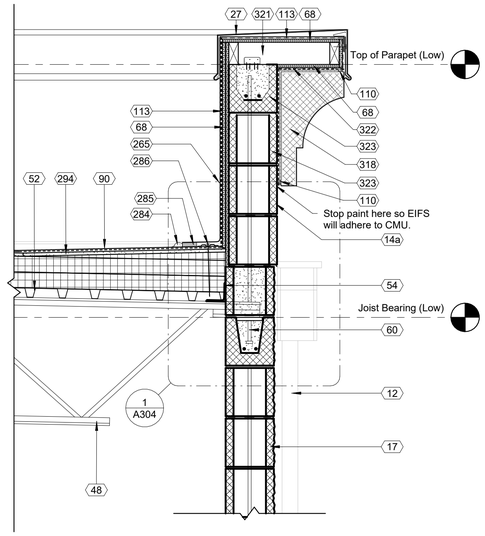
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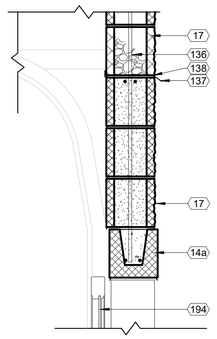
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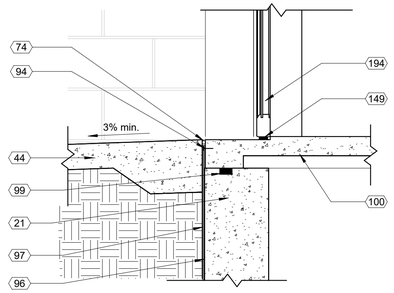
3 DT_Sheet A302 Roof at Parapet (High) Standard
1" = 1'-0"



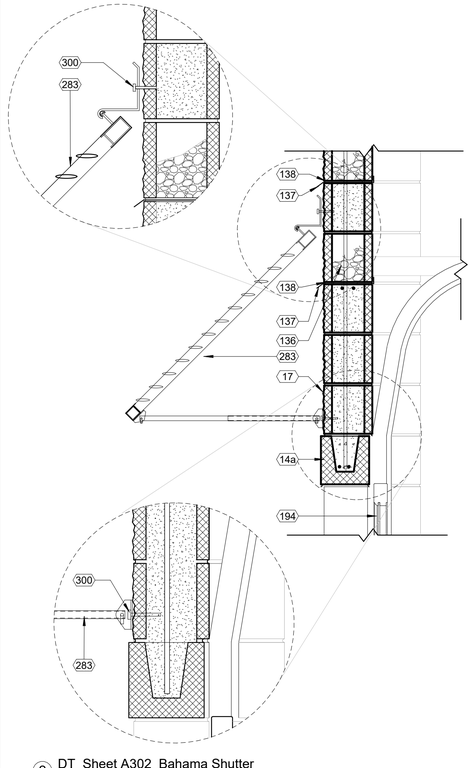
4 DT_Sheet A302 Roof at Parapet (Low) Standard
1" = 1'-0"



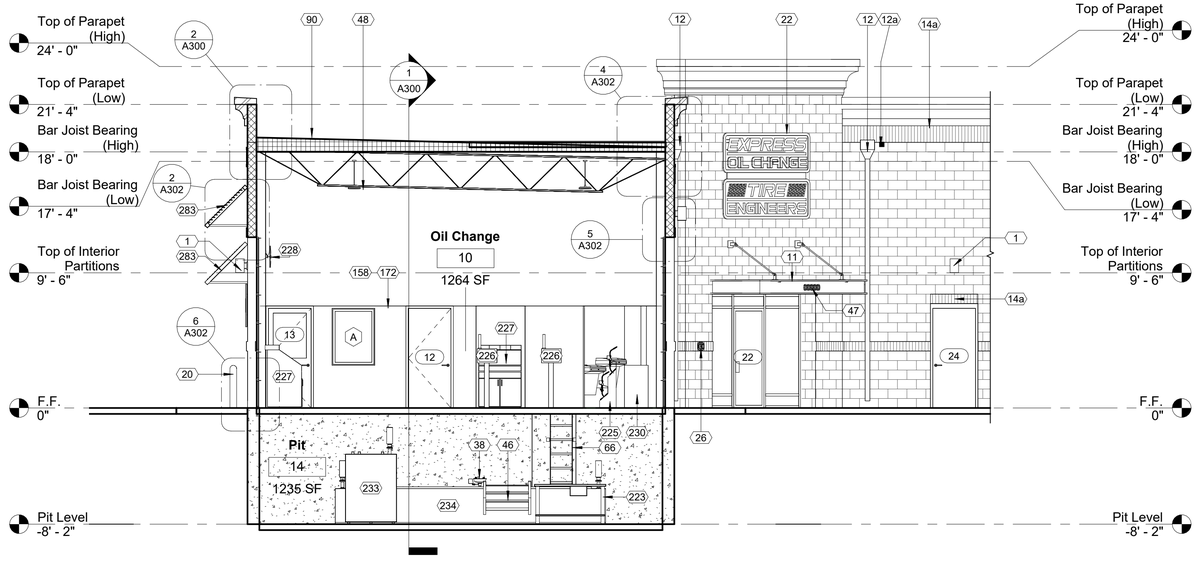
5 DT_Sheet A302_OH Door Head Detai
1" = 1'-0"



6 DT_Sheet A301_Slab Detail @ Pit Wall
1" = 1'-0"



2 DT_Sheet A302_Bahama Shutter
1" = 1'-0"



1 Building Section 3
3/16" = 1'-0"

Keynote Schedule

Tag	Text
1	Exterior Light Fixture. See Electrical.
11	Pre-finished metal canopy. See Details.
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
12a	Emergency roof drain scupper. Locate adjacent to conductor head and 2 inches higher than downspout scupper location. See Specification 077100 Roof Specialties.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
20	4" diameter painted concrete-filled steel pipe bollard. Color as indicated on Finish Schedule. Paint embedded portion of bollard. Use primer and two finish coats. See Details. See Specification 055000 Metal Fabrications.
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
22	Signage (By Others). See Electrical.
26	Fire Department Lock Box. Locate as directed by the Local Fire Marshal or AHJ. See Specification 104413 Fire Department Lock Box.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
38	Eyewash station. See Plumbing.
44	Concrete apron as required. Slope away from building with 3% slope minimum. See Civil. Maintain 2% slope max at all man doors.
46	Oil tank stairs (By Others).
47	Provide address identification as directed by the Local Fire Marshal or AHJ.
48	Bar joist. See Structural.
52	Galvanized metal roof deck. See Structural.
54	Steel angle. See Structural.
60	Steel plate with headed studs. See Structural.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
68	1/2" exterior plywood sheathing.
74	1/2" expansion joint with backer rod and sealant.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
94	Fasteners at 12" max o.c. for securing subdrainage to pit wall. Follow manufacturer's installation instructions.
96	CCW MiraClay woven geotextile against wall/slab.
97	CCW MiraDrain 6200.
99	CCW MiraStop BW.
100	Concrete slab. See Structural.
109	Horizontal joint reinforcement at 16" o.c. vertical.
110	Sealant with backer rod.
113	Fluid applied vapor permeable air barrier. See Specification 072726 Fluid Applied Membrane Air Barrier.
136	Pea gravel above through wall flashing.
137	Flashing between first and second course to utilize BlockFlash in addition to the pea gravel specified. Provide a drainage mat in open masonry cell directly above the BlockFlash pan.
138	Drainable weeps at every third mortar joint.
149	1/2" recess at scheduled door. See Structural.
158	Vinyl letters (By Others).
172	Ensure paint line occurs at top of door and window frames. Ensure all openings, alcoves and windows align with top of door frame. Typical in Oil and Service Bays.
194	Scheduled door. See plans for details.
223	Work bench (By Others).
225	Lube console (By Others).
226	Computer podium (By Others).
227	Cashier computer station (By Others).
228	Convex mirrors (By Others).
230	Tool cart (By Others).
233	275-gallon Class IIIB new oil tank (By Others).
234	928-gallon Class IIIB new oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.
265	TPO membrane turned vertically up the wall and fastened to wood blocking at top roof curb, or top of wall framing per detail. Adhere TPO membrane to wall substrate with manufacturer approved bonding adhesive.
283	Prefinished Extruded Aluminum Metal Bahama shutter, see Specification Section 107130 Exterior Window Shutters.
284	Cut edge sealant at TPO roof membrane flashing.
285	Hot air weld at TPO membrane and membrane flashing.
286	Fastener and seam fastening plate.
294	½" cover board mechanically attached over polyisocyanurate insulation board (See TPO Spec for required R-value).
300	Reducer Strip
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.
321	2x pressure treated wood framing spaced at 2'-0" o.c., minimum. Anchor 2x framing into grouted masonry cells using Simpson Strong Tie A23 angle ties. Secure angle ties on each side of framing members using 4 concrete screws on each side.
322	Vapor permeable air and water resistive barrier membrane. See Specification Section 072400 EIFS Exterior Insulation and Finish System.
323	Unpainted smooth-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry.

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STATE OF MISSISSIPPI
06/15/2026

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L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

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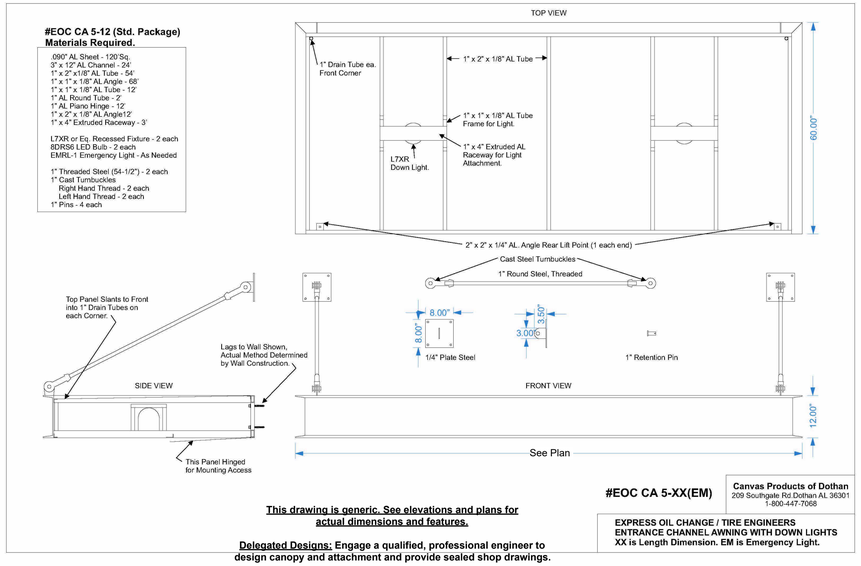
Building Sections

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

A302

Scale: As indicated

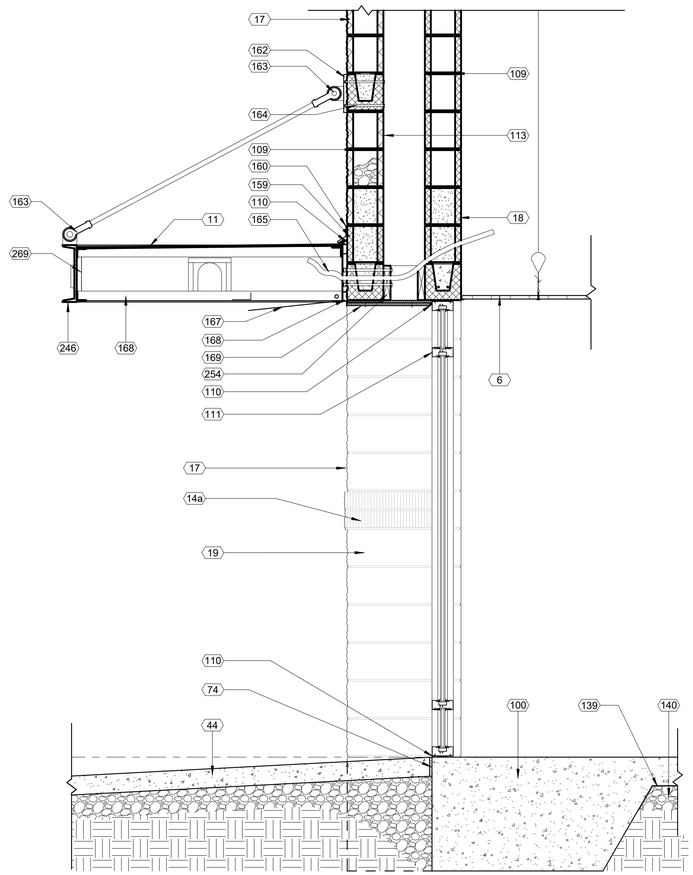
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This drawing is generic. See elevations and plans for actual dimensions and features.

Delegated Designs: Engage a qualified, professional engineer to design canopy and attachment and provide sealed shop drawings.

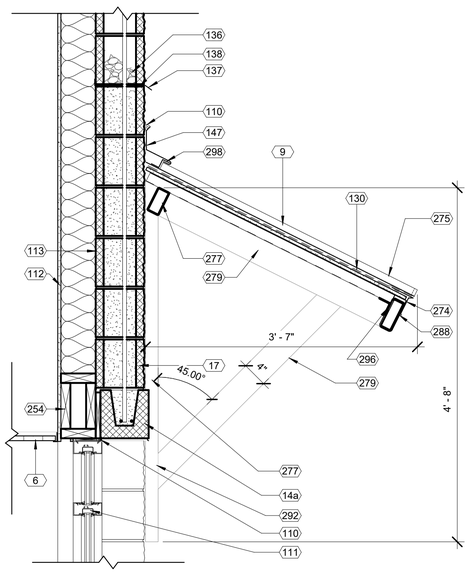
3 DT_Sheet A303_Awning Details
N.T.S.



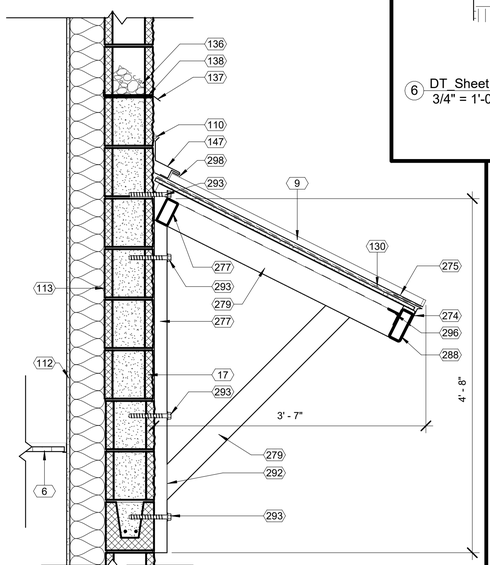
6 DT_Sheet A303_LShape Front Entry_Section thru Canopy
3/4" = 1'-0"

Keynote Schedule

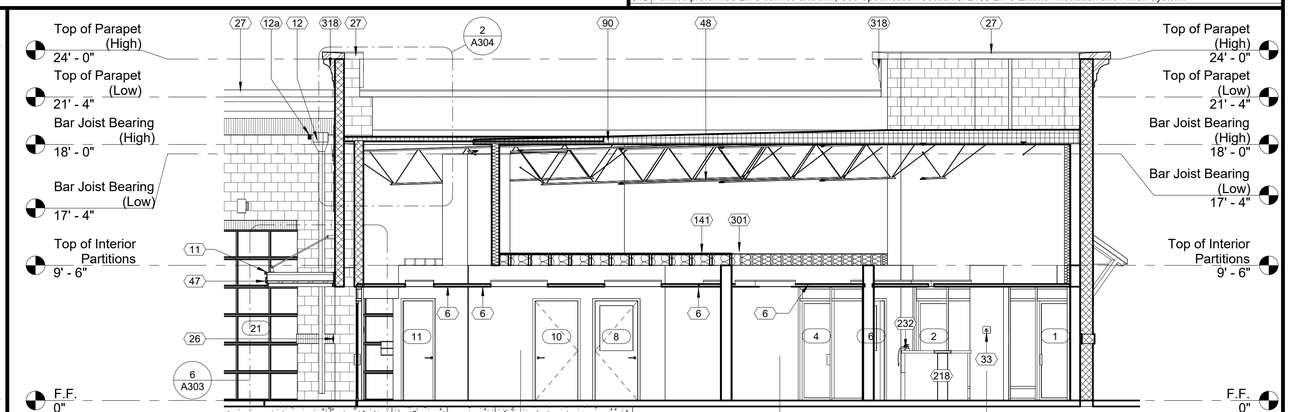
Tag	Text
6	Lay-in acoustical ceiling tile and grid, supported from structure.
9	Pre-finished standing seam metal roof system. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
11	Pre-finished metal canopy. See Details.
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
12a	Emergency roof drain scupper. Locate adjacent to conductor head and 2 inches higher than downspout scupper location. See Specification 077100 Roof Specialties.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
18	Painted smooth-face CMU. See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
26	Fire Department Lock Box. Locate as directed by the Local Fire Marshal or AHJ. See Specification 104413 Fire Department Lock Box.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
33	ADA compliant room / exit sign. See Details.
44	Concrete apron as required. Slope away from building with 3% slope minimum. See Civil. Maintain 2% slope max at all man doors.
47	Provide address identification as directed by the Local Fire Marshal or AHJ.
48	Bar joist. See Structural.
74	1/2" expansion joint with backer rod and sealant.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
100	Concrete slab. See Structural.
109	Horizontal joint reinforcement at 16" o.c. vertical.
110	Sealant with backer rod.
111	Aluminum storefront with insulated glazing. See Details.
112	Painted 1/2" gypsum board on 2x6 wood studs at 16" o.c. with kraft-face R-20 batt insulation (kraft in contact with gypsum board). See Details.
113	Fluid applied vapor permeable air barrier. See Specification 072726 Fluid Applied Membrane Air Barrier.
130	2 layers of #15 roofing felt.
136	Pea gravel above through wall flashing.
137	Flashing between first and second course to utilize BlockFlash in addition to the pea gravel specified. Provide a drainage mat in open masonry cell directly above the BlockFlash pan.
138	Drainable weeps at every third mortar joint.
139	10 mil vapor barrier. See Specification 072600 Vapor Retarders.
140	Porous fill. See Geotechnical Report.
141	3/4" tongue and groove plywood on 2x10 wood joists @ 12" o.c. Provide R-38 batt kraft face insulation in between joists. Kraft face in contact with substrate. (If applicable, it shall be the Contractor's option to provide plywood attached to bottom of joists for insulation to rest on or secure insulation to joists without the need for the plywood bottom).
147	Stainless steel flashing. See Specification Section 076500 Stainless Steel Flexible Flashing.
159	Painted smooth-face grout-filled CMU where canopy attaches to wall construction. See Structural.
160	Pre-finished aluminum flashing to match color of canopy. Turn out onto canopy.
162	Pre-finished 8"x8"x1/4" steel plate anchored to wall using through wall fasteners by Canopy manufacturer's designated design.
163	Pre-finished 1" cast steel turnbuckle with 1" threaded steel rod and 1" pins.
164	Anchor canopy to wall using through wall fasteners by Canopy manufacturer's designated design.
165	Provide a 1" flexible conduit extending 12" beyond the face of the wall for canopy lighting. See Electrical.
167	Pre-finished hinged panel for mounting access. Color to match canopy.
168	1"x2" aluminum tube. Typical.
169	Pre-finished metal over 1/2" pressure treated plywood. Terminate at aluminum storefront. Turn up pre-finished metal 1" at edge where metal meets canopy. Secure panel to plywood with fasteners compatible with type and color of metal being used.
218	Service Writing Desk.
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
246	3"x12" aluminum channel.
254	2x wood framing at opening.
269	1" drain tube beyond. Slope top panel of canopy toward the drain tube at the front of the canopy.
274	Prefinished metal edge flashing with hemmed drip edge to match SSMR finish.
275	Standing Seam metal roof over (2) layers of felt underlayment on ½" coverboard on metal roof decking. See Specification 074113.16 Standing Seam Metal Roof Panels. See Finish Schedule for color.
277	Painted HSS 4x2x3/16 tube steel framing. Where ends are exposed finish with closed and welded end. Color/finish as indicated on Finish Schedule.
279	Painted HSS 4x4x3/16 tube steel framing. Where ends are exposed finish with closed and welded end. Color/finish as indicated on Finish Schedule.
288	Painted HSS 5x2x3/16 tube steel framing. Where ends are exposed finish with closed and welded end. Color/finish as indicated on Finish Schedule.
292	Weld all the way around joint between tube steel framing members.
293	Bolt 2x4 HSS 4x2x3/16 to masonry wall using Simpson Titen HD THD62600H anchors in grouted masonry cells.
296	2x2 steel Angle welded to HSS5x2 to support roof deck.
298	Zee closure. Provide continuous bead of caulk between zee closure and standing seem metal roof panel.
301	Provide 42" guards at all exposed edges of above ceiling platforms. Concentrated Load: Guards shall be designed to resist a concentrated load of 200 pounds in accordance with Section 4.5.1 of ASCE/SEI 7. Uniform Load: Guards shall be designed to resist a linear load of 50 pounds per linear foot in accordance with Section 4.5.1.1 of ASCE/SEI 7. This load need not be assumed to act concurrently with the concentrated load specified above. Guard infill components except the top rail shall be designed to resist a concentrated load of 50 pounds in accordance with Section 4.5.1.2 of ASCE/SEI 7.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.



4 Canopy Detail at Storefront1
1" = 1'-0"



5 Canopy Connection Detail at Ends
1" = 1'-0"



1 Building Section 4
3/16" = 1'-0"

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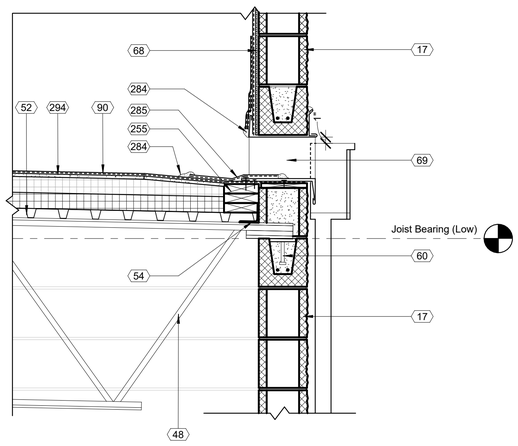
Building Sections

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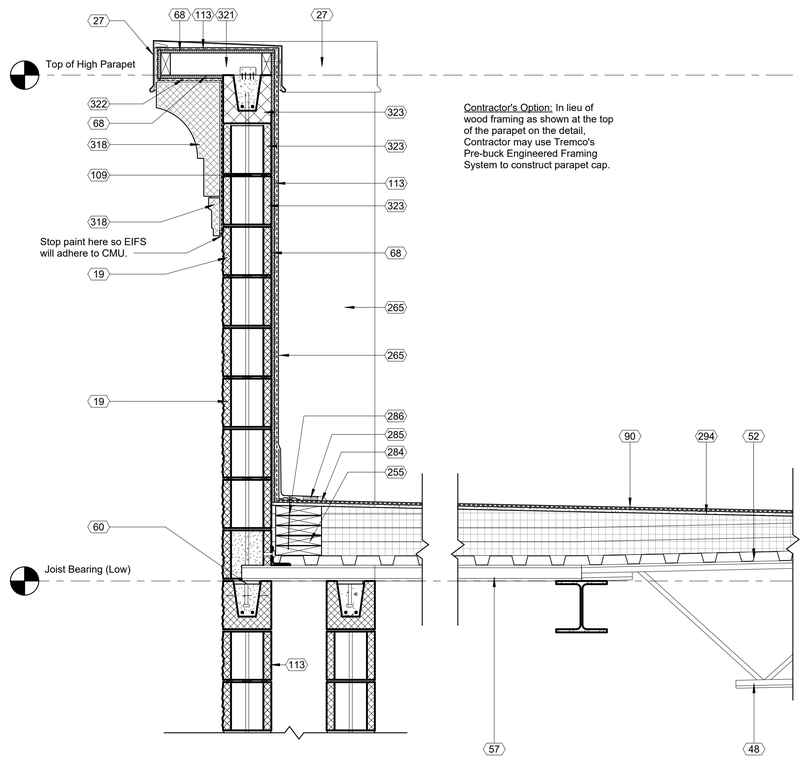
A303

Scale As indicated

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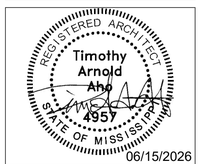
1 DT_Sheet A304 Roof Scupper Detail (Rear) Standard
1" = 1'-0"



2 DT_Sheet A304_LShape Front Entry_Section thru High Parapet (Rear Entry)1
1" = 1'-0"

Keynote Schedule	
Tag	Text
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule. Project 1/2" where indicated on details.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
48	Bar joist. See Structural.
52	Galvanized metal roof deck. See Structural.
54	Steel angle. See Structural.
57	Joist extension. See Structural.
60	Steel plate with headed studs. See Structural.
68	1/2" exterior plywood sheathing.
69	Thru-wall metal roof scupper for roof drainage. See Specification 077100 Roof Specialties.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
109	Horizontal joint reinforcement at 16" o.c. vertical.
113	Fluid applied vapor permeable air barrier. See Specification 072726 Fluid Applied Membrane Air Barrier.
255	2x pressure treated wood blocking.
265	TPO membrane turned vertically up the wall and fastened to wood blocking at top roof curb, or top of wall framing per detail. Adhere TPO membrane to wall substrate with manufacturer approved bonding adhesive.
284	Cut edge sealant at TPO roof membrane flashing.
285	Hot air weld at TPO membrane and membrane flashing.
286	Fastener and seam fastening plate.
294	<varies>
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.
321	2x pressure treated wood framing spaced at 2'-0" o.c., minimum. Anchor 2x framing into grouted masonry cells using Simpson Strong Tie A23 angle ties. Secure angle ties on each side of framing members using 4 concrete screws on each side.
322	Vapor permeable air and water resistive barrier membrane. See Specification Section 072400 EIFS Exterior Insulation and Finish System.
323	Unpainted smooth-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry.

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06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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Building Sections

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A304

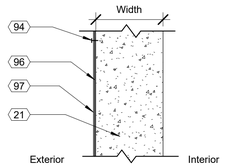
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E1

Refer to structural drawings for reinforcing and other information

Install all waterproofing per manufacturer's recommendations.



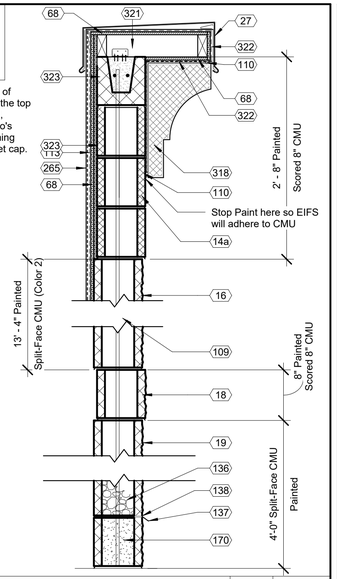
Wall Type No.	Description	Width	Ref Test
E1	As shown	See Struct.	-

E2

Contractor's Option: In lieu of wood framing as shown at the top of the parapet on the detail, Contractor may use Tremco's Pre-buck Engineered Framing System to construct parapet cap.

Refer to structural drawings for reinforcing, grouting, and other information

Install siloxane on the exterior side of wall construction



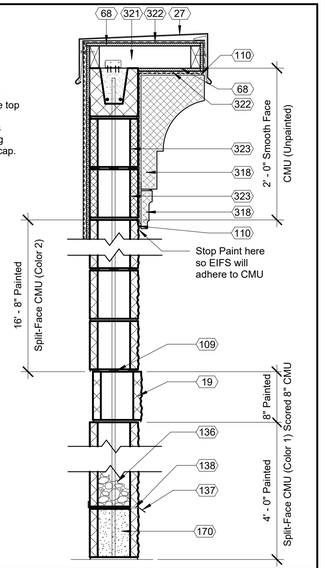
Wall Type No.	Description	Width	Ref Test
E2	As shown	7 5/8"	-
E2a	As shown, except use 12" block in lieu of 8" block.	11 5/8"	-

E3

Contractor's Option: In lieu of wood framing as shown at the top of the parapet on the detail, Contractor may use Tremco's Pre-buck Engineered Framing System to construct parapet cap.

Refer to structural drawings for reinforcing and other information

Install siloxane on the exterior side of wall construction



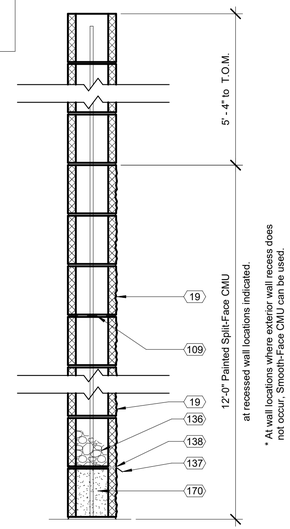
Wall Type No.	Description	Width	Ref Test
E3	As shown	7 5/8"	-
E3a	As shown, except use 12" block in lieu of 8" block.	7 5/8"	-

E4

Refer to structural drawings for reinforcing, grouting, and other information

Seal all penetrations with fire caulk

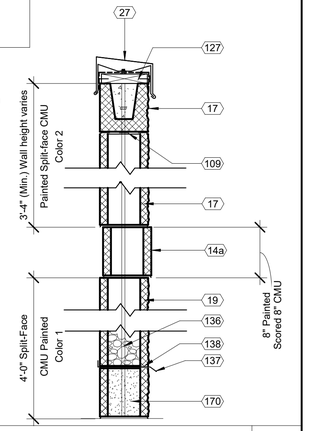
Install siloxane on the exterior side of wall construction



Wall Type No.	Description	Width	Ref Test
E4	As shown - See Plan for Locations.	7 5/8"	U905

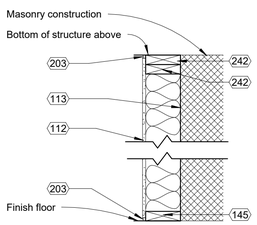
E5

Refer to structural drawings for reinforcing, grouting, and other information



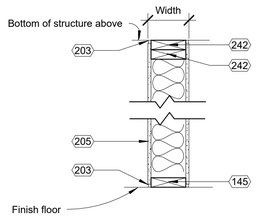
Wall Type No.	Description	Width
E5	As shown	7 5/8"
E5a	As shown, except without coping and painted CMU to roof. See Elevations on A101.	7 5/8"

I2



Wall Type No.	Description	Width	Ref Test
I2	As shown	6"	-

I3



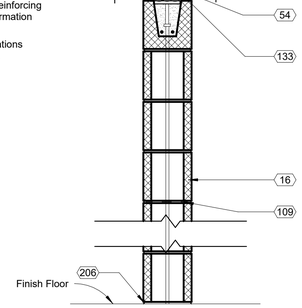
Note: Stagger electrical outlet boxes, switches, etc. Seal around all penetrations in wall with acoustical sealant.

Wall Type No.	Description	Width	Ref Test
I3	As shown	6 1/2"	-
I3a	As shown, except extend only 6" above lay-in ceiling in lieu of extending to bottom of structure above	6 1/2"	-

I4

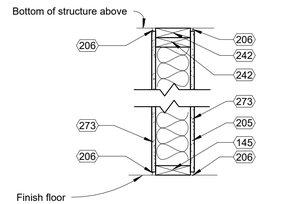
Refer to structural drawings for reinforcing and other information

Seal all pentrations with fire caulk



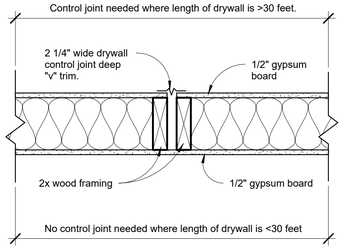
Wall Type No.	Description	Width	Ref Test
I4	As shown - Full Height	7 5/8"	U905/U305

I5

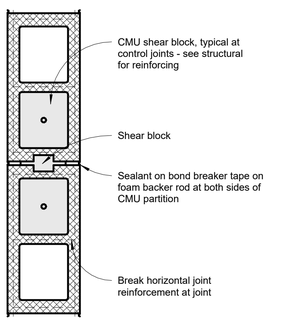


Note: Stagger electrical outlet boxes, switches, etc. Seal around all penetrations in wall with fire caulk.

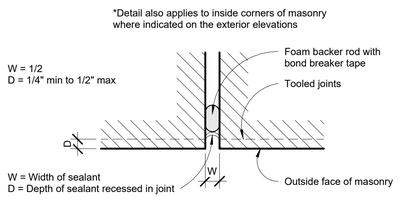
Wall Type No.	Description	Width	Ref Test
I5	1 hour rated wood framed wall.	6 3/4"	U305



1 DT_Sheet A400_Gypsum Board Control Joint
1 1/2" = 1'-0"



2 DT_Sheet A400_Masonry Control Joint
1 1/2" = 1'-0"



3 DT_Sheet A400_Sealant Detail
6" = 1'-0"

Keynote Schedule

Tag	Text
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
16	Painted smooth-face CMU. See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
17	Painted split-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
18	Painted smooth-face CMU. See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
19	<varies>
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
27	Pre-finished metal coping at exposed tops only over self-adhered membrane flashing and pressure treated wood blocking. Slope to drain. Color as indicated on Finish Schedule.
52	Galvanized metal roof deck. See Structural.
54	Steel angle. See Structural.
68	1/2" exterior plywood sheathing.
94	Fasteners at 12" max o.c. for securing subdrainage to pit wall. Follow manufacturer's installation instructions.
96	CCW MiraClay woven geotextile against wall/slab.
97	CCW MiraDrain 6200.
109	Horizontal joint reinforcement at 16" o.c. vertical.
110	Sealant with backer rod.
112	Painted 1/2" gypsum board on 2x6 wood studs at 16" o.c. with kraft-face R-20 batt insulation (kraft in contact with gypsum board). See Details.
113	Fluid applied vapor permeable air barrier. See Specification 072726 Fluid Applied Membrane Air Barrier.
127	2x pressure treated wood nailer.

Keynote Schedule

Tag	Text
133	Firestop safing.
136	Pea gravel above through wall flashing.
137	Flashing between first and second course to utilize BlockFlash in addition to the pea gravel specified. Provide a drainage mat in open masonry cell directly above the BlockFlash pan.
138	Drainable weeps at every third mortar joint.
145	2x pressure treated wood sill plate.
170	Fill first course of CMU with grout.
203	Acoustical sealant and backer rod. See Specification 079219 Acoustical Joint Sealants.
205	1 layer of 1/2" painted gypsum board on both sides of 2"x6" wood studs at 16" o.c. Infill with kraft-faced R-20 batt insulation. Kraft in contact with gypsum board.
206	Fire caulk both sides. Typical. See Specification 078443 Joint Firestopping.
242	2x pressure treated wood top plate.
265	TPO membrane turned vertically up the wall and fastened to wood blocking at top roof curb, or top of wall framing per detail. Adhere TPO membrane to wall substrate with manufacturer approved bonding adhesive.
273	1 layer of 5/8" Type X painted gypsum board on both sides of 2"x6" wood studs at 16" o.c. Infill with kraft-faced R-20 batt insulation. Kraft in contact with gypsum board.
318	Painted preformed EIFS cornice and trim, See Specification Section 072400 EIFS Exterior Insulation and Finish System.
321	2x pressure treated wood framing spaced at 2'-0" o.c., minimum. Anchor 2x framing into grouted masonry cells using Simpson Strong Tie A23 angle ties. Secure angle ties on each side of framing members using 4 concrete screws on each side.
322	Vapor permeable air and water resistive barrier membrane. See Specification Section 072400 EIFS Exterior Insulation and Finish System.
323	Unpainted smooth-face CMU (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry.

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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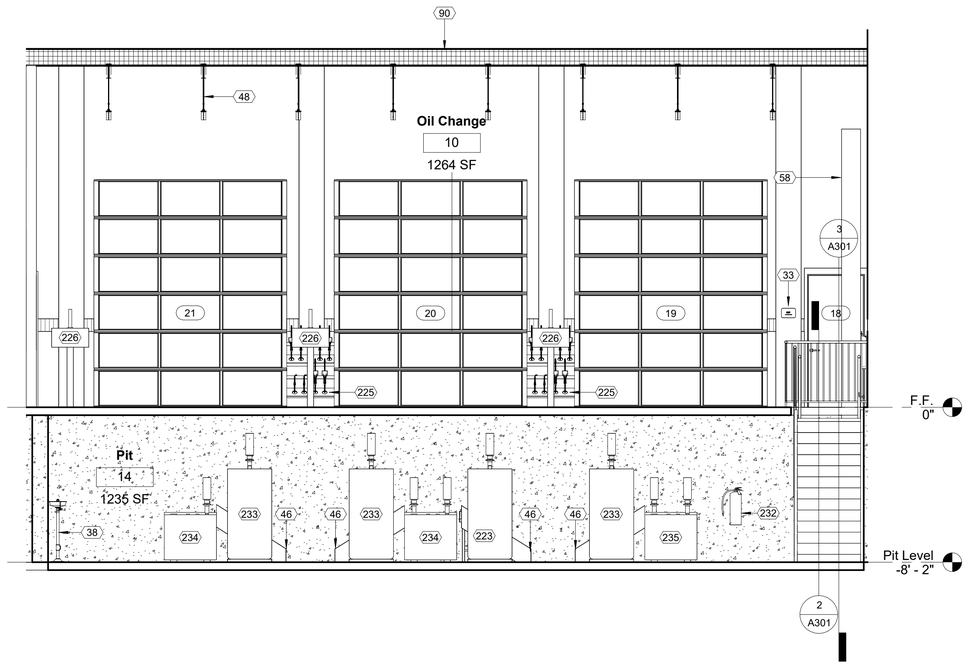
Wall Types

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

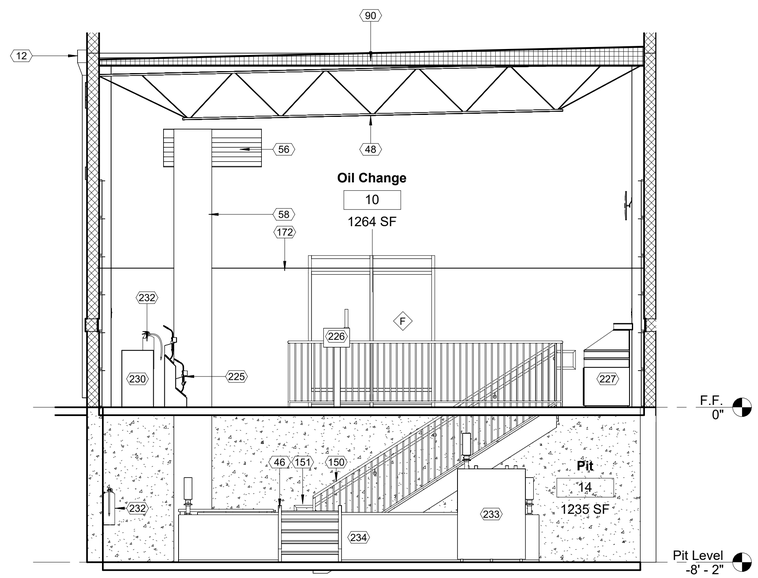
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Scale: As indicated

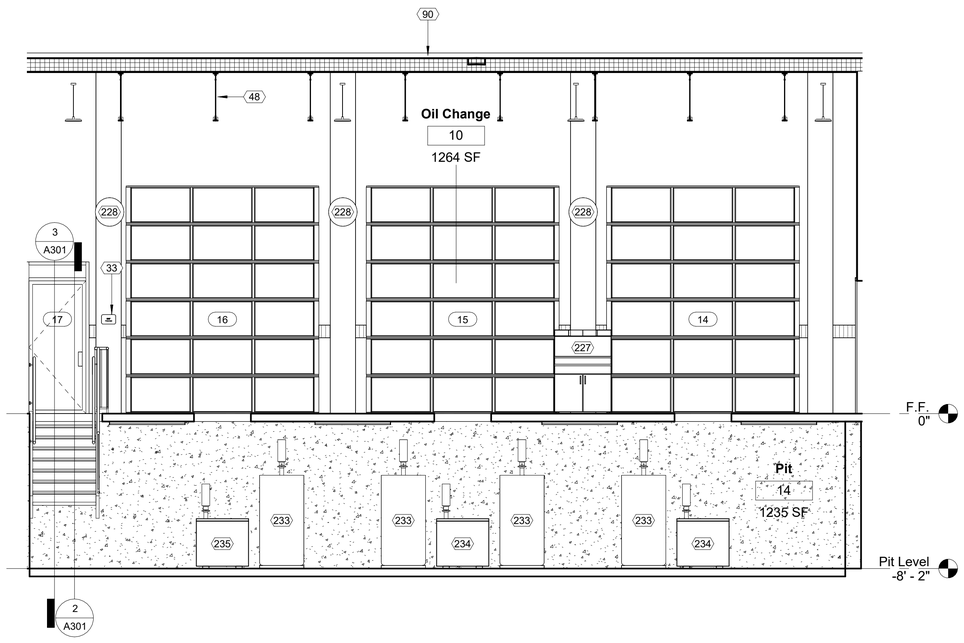
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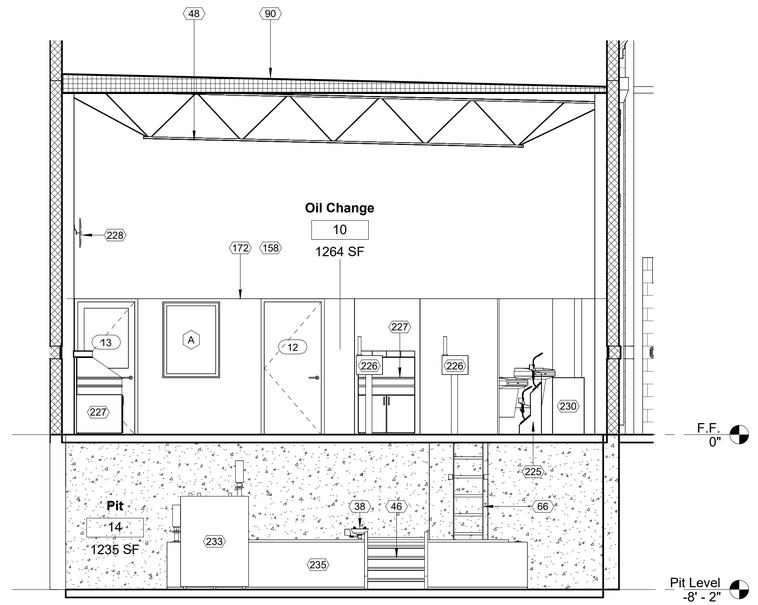
1 Oil Change_Interior Elevation A
1/4" = 1'-0"



2 Oil Change_Interior Elevation B
1/4" = 1'-0"



3 Oil Change_Interior Elevation C
1/4" = 1'-0"



4 Oil Change_Interior Elevation D
1/4" = 1'-0"

Keynote Schedule

Tag	Text
12	Pre-finished metal conductor head with built-in overflow and downspout. Drainage to discharge on grade, unless indicated on drawings that drainage is to be piped to storm,(See Civil). Provide a pre-finished elbow and concrete splash block. See Specification 077100 Roof Specialties.
33	ADA compliant room / exit sign. See Details.
38	Eyewash station. See Plumbing.
46	Oil tank stairs (By Others).
48	Bar joist. See Structural.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
58	Verify location and size of pit exhaust opening with Structural and Mechanical drawings.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
150	Painted guardrail with painted 1/2" round pickets at 4" max o.c. See Finish Schedule for color. See Specification 055213 Pipe and Tube Railings.
151	Painted 1-1/2" outside diameter pipe handrail. Return handrail to guard/wall. Typical. See Finish Schedule for color. See Specification 055213 Pipe and Tube Railings.
158	Vinyl letters (By Others).
172	Ensure paint line occurs at top of door and window frames. Ensure all openings, alcoves and windows align with top of door frame. Typical in Oil and Service Bays.
223	Work bench (By Others).
225	Lube console (By Others).
226	Computer podium (By Others).
227	Cashier computer station (By Others).
228	Convex mirrors (By Others).
230	Tool cart (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
233	275-gallon Class IIIB new oil tank (By Others).
234	928-gallon Class IIIB new oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.
235	928-gallon Class IIIB waste oil tank (By Others). Provide a 2" concrete walkway cap with non-slip surface over (oil tank By Others). Coordinate with equipment supplier prior to installation.

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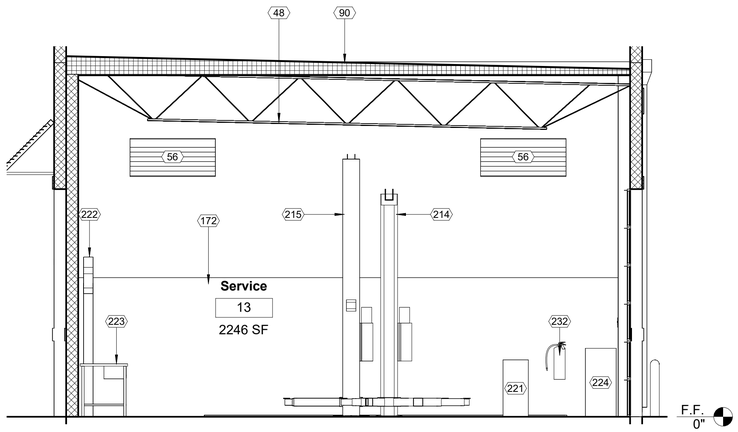
Interior Elevations

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

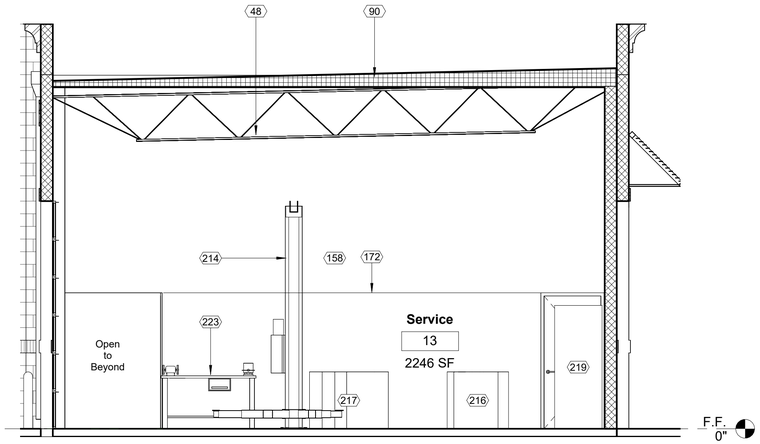
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Scale 1/4" = 1'-0"

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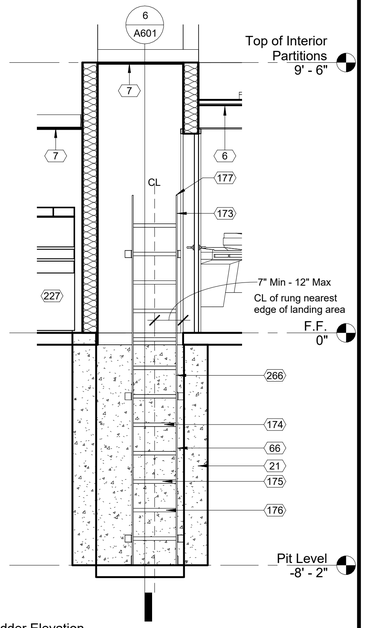
1 Service Bay_Interior Elevation A
1/4" = 1'-0"



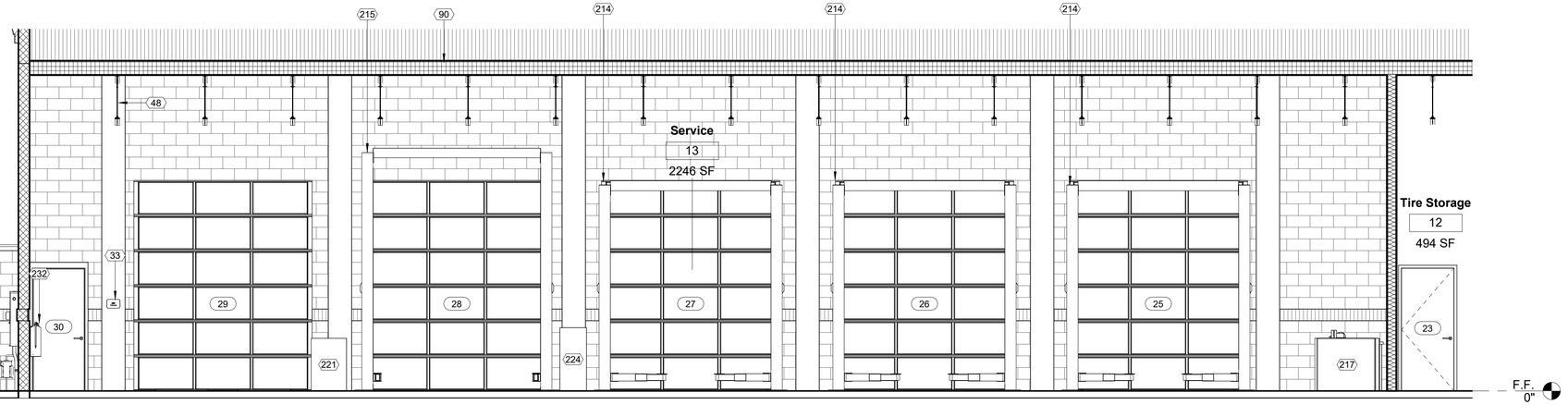
2 Service Bay_Interior Elevation B
1/4" = 1'-0"

Keynote Schedule	
Tag	Text
6	Lay-in acoustical ceiling tile and grid, supported from structure.
7	Painted 1/2" gypsum board ceiling secured to structure above. 5/8" Type X where indicated.
21	Cast-in-place concrete wall. See Structural. Membrane waterproofing at perimeter of foundation wall as specified. See Specification 334600 Subdrainage.
33	ADA compliant room / exit sign. See Details.
48	Bar joist. See Structural.
56	Metal louver or vent. Color to match adjacent surface. See Mechanical.
66	Interior wall mounted ladder. See Details. See Specification 055133 Ladders. Color as indicated on Finish Schedule.
90	Fully adhered TPO membrane roofing installed per manufacturer's written instructions. See Specification 075423 Thermoplastic Polyolefin (TPO) Roofing.
148	Latch side of door to be located on side nearest the wall mounted ladder.
158	Vinyl letters (By Others).
172	Ensure paint line occurs at top of door and window frames. Ensure all openings, alcoves and windows align with top of door frame. Typical in Oil and Service Bays.
173	Pit ladder to comply fully with OSHA 1910.23 and 1926.1053.
174	Rungs shall be capable of supporting a single concentrated load of at least 250 lbs. applied to the middle of the rung.
175	Rungs shall be corrugated, knurled, dimpled, coated with skid-resistant material or otherwise treated to minimize slipping.
176	Rungs to be uniformly spaced 10" min. to 14" max. as measured between centerline of rungs.
177	Extend ladder above landing surface to ensure proper grip.
214	10K Lift (By Others).
215	12K Lift (By Others).
216	Tire changer (By Others).
217	Wheel balancer (By Others).
219	Air compressor (By Others).

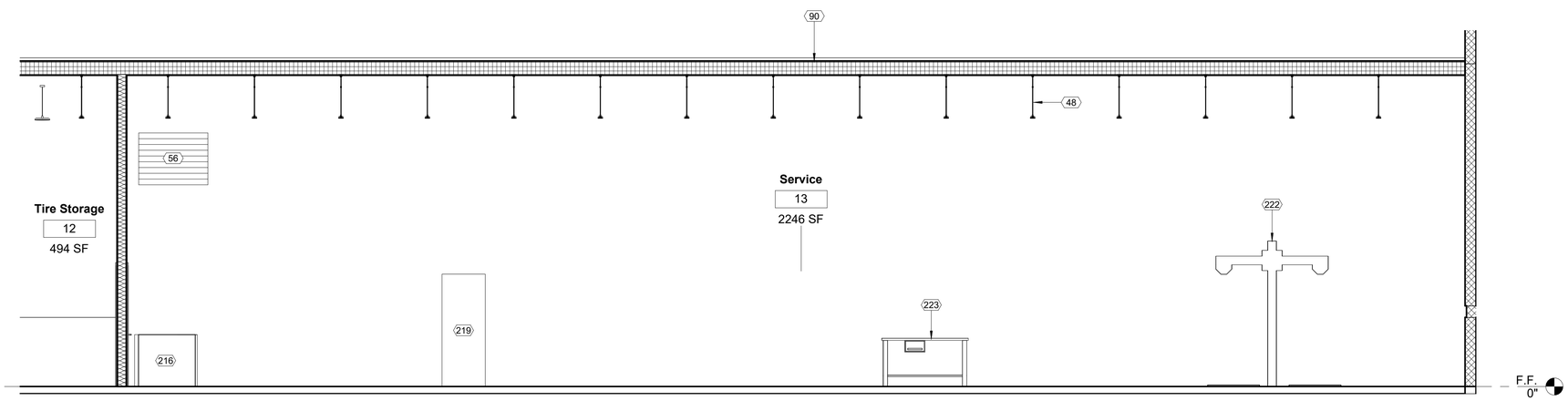
Keynote Schedule	
Tag	Text
221	Scissor lift alignment console (By Others). Provide conduit in slab as required. See alignment lift specifications (By Others).
222	Alignment scarecrow (By Others).
223	Work bench (By Others).
224	Strut compressor (By Others).
227	Cashier computer station (By Others).
232	Bracket mounted fire extinguisher. See Specification Section 104416 Fire Extinguishers. Provide sign at all fire extinguisher locations which may be visually obstructed. See Details.
266	Pit ladder to be painted P-5 Safety Yellow.



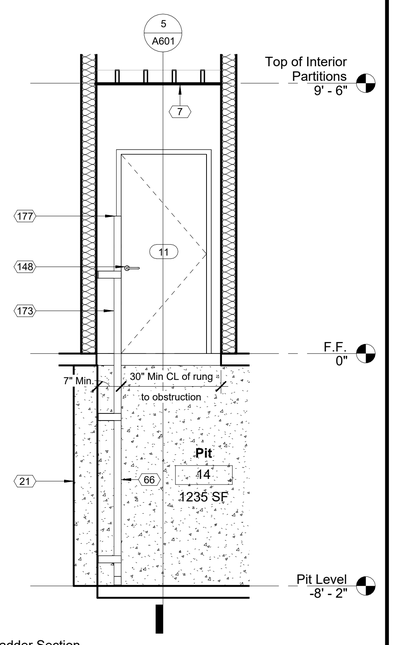
5 Pit Ladder Elevation
3/8" = 1'-0"



3 Service Bay_Interior Elevation C
1/4" = 1'-0"



4 Service Bay_Interior Elevation D
1/4" = 1'-0"



6 Pit Ladder Section
3/8" = 1'-0"

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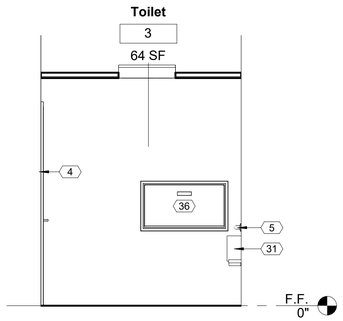
Interior Elevations

Project number	25046
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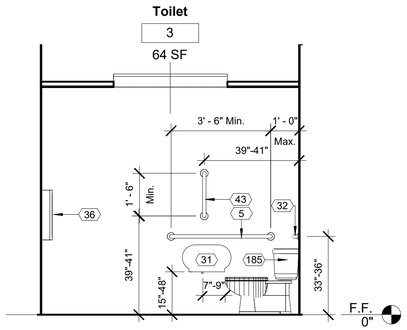
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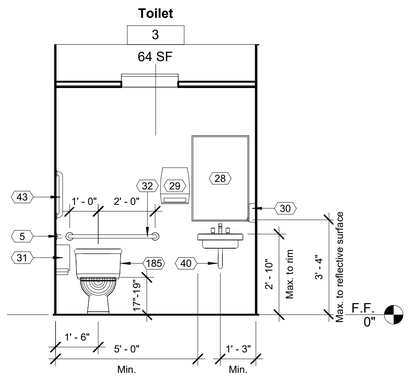
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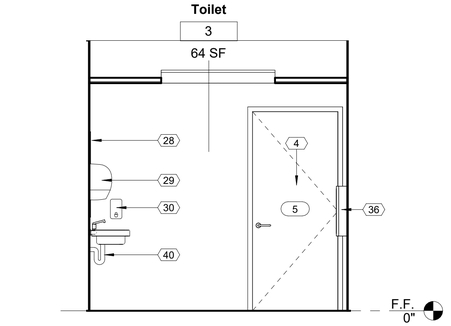
2 Toilet #3_Interior Elevation A
3/8" = 1'-0"



3 Toilet #3_Interior Elevation B
3/8" = 1'-0"

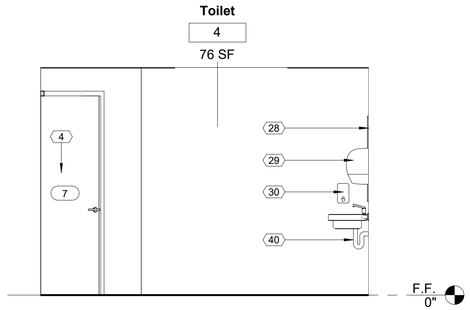


4 Toilet #3_Interior Elevation C
3/8" = 1'-0"

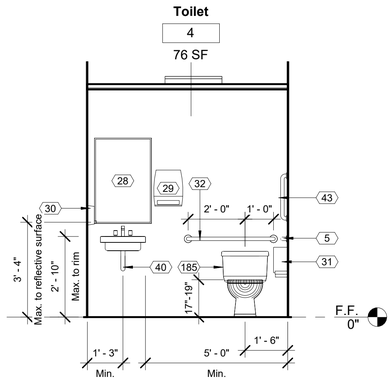


5 Toilet #3_Interior Elevation D
3/8" = 1'-0"

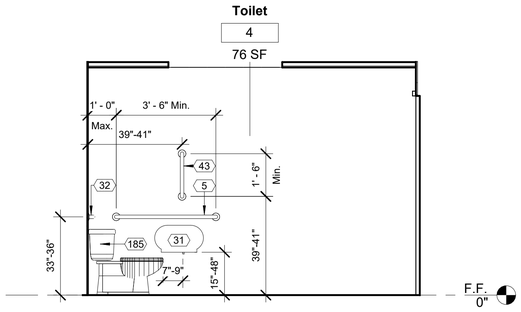
Keynote Schedule	
Tag	Text
3	Location of 30" wide refrigerator (By Others).
4	Robe hook mounted at 48" A.F.F. See Specification 102800 Toilet, Bath, and Laundry Accessories.
5	42" grab bar with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
28	Framed mirror. See Specification 102800 Toilet, Bath, and Laundry Accessories.
29	Automatic Towel Dispenser (By others). Provide blocking in wall as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
30	Wall mounted soap dispenser (By Others). Provide blocking in wall as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
31	Jumbo Dual Roll Toilet Tissue dispenser (By Others). Provide blocking in wall as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
32	36" grab bar with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
36	Surface mounted baby changing station with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
40	Under lavatory guard. See Specification 102800 Toilet, Bath, and Laundry Accessories.
43	24" vertical grab bar with blocking in walls as required. See Specification 102800 Toilet, Bath, and Laundry Accessories.
179	Plastic laminate over 1x wood blocking. See Specification 123623.13 Plastic-Laminate-Clad Countertops. See Finish Schedule for color.
180	Plastic laminate over 3/4" plywood. See Specification 123623.13 Plastic-Laminate-Clad Countertops. See Finish Schedule for color.
181	1x wood blocking.
182	Concealed countertop bracket.
183	2x wood cleat.
184	Finish base. See Specification Section 096513 Resilient Base Accessories. See Finish Schedule for color.
185	Flush valve on transfer side of water closet.



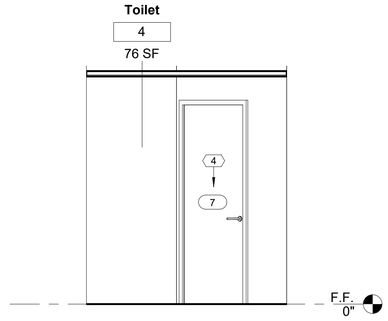
6 Toilet #4_Interior Elevation A
3/8" = 1'-0"



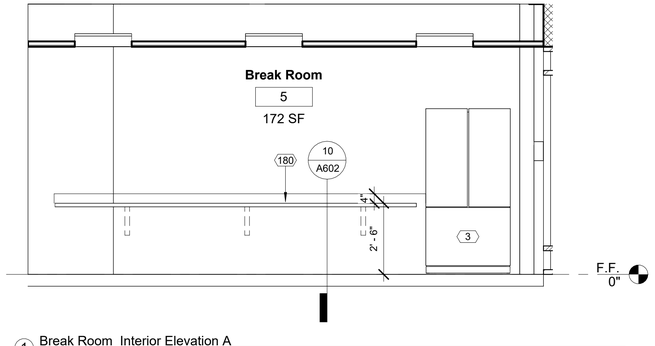
7 Toilet #4_Interior Elevation B
3/8" = 1'-0"



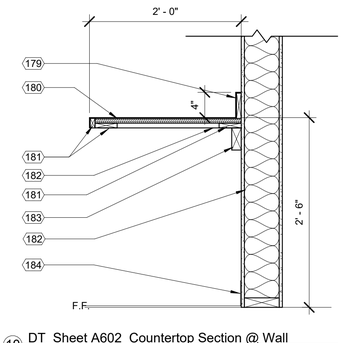
8 Toilet #4_Interior Elevation C
3/8" = 1'-0"



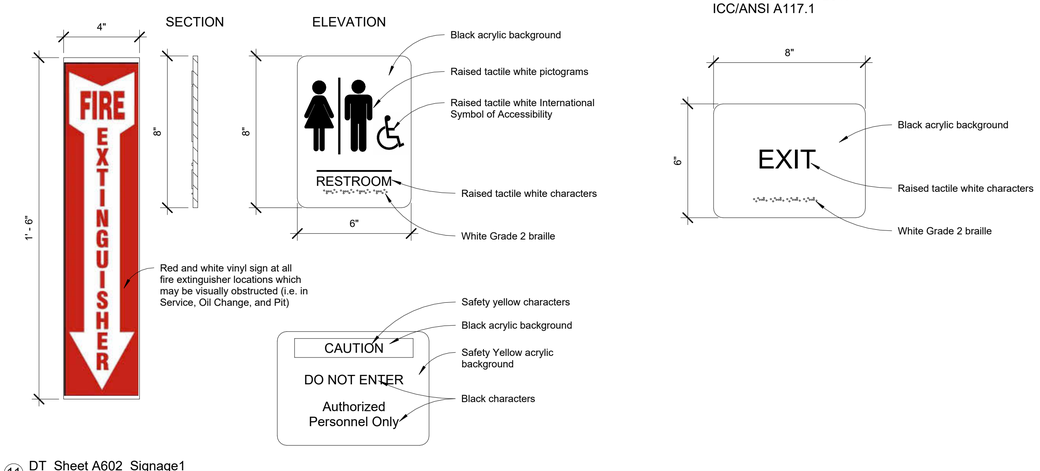
9 Toilet #4_Interior Elevation D
3/8" = 1'-0"



1 Break Room_Interior Elevation A
3/8" = 1'-0"



10 DT_Sheet A602_Countertop Section @ Wall
1" = 1'-0"



11 DT_Sheet A602_Signage1
3" = 1'-0"

Signage shall comply with Section 703 of the 2017 ICC/ANSI A117.1

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Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

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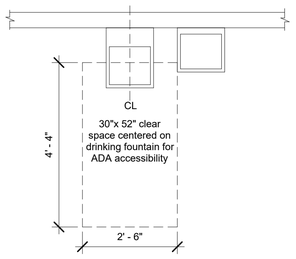
Interior Elevations

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

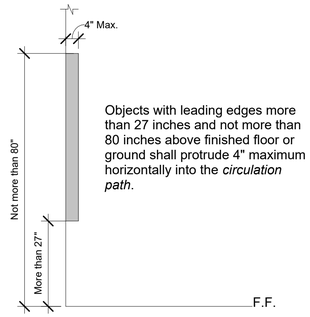
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Scale: As indicated

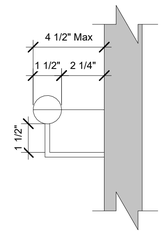
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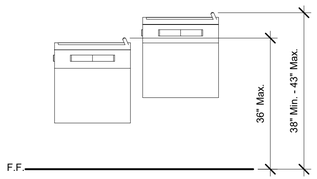
1 DT_Sheet A605_Drinking Fountain_Plan View
1/2" = 1'-0"



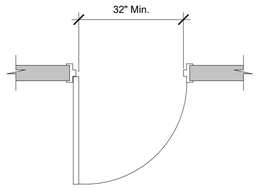
2 DT_Sheet A605_Limits of Protruding Objects
1/2" = 1'-0"



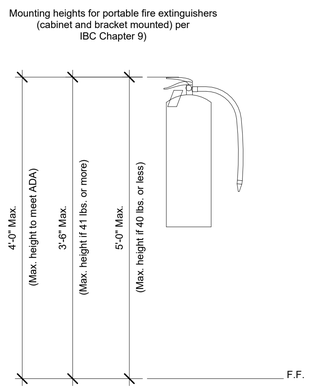
3 DT_Sheet A605_Handrail Detail
3" = 1'-0"



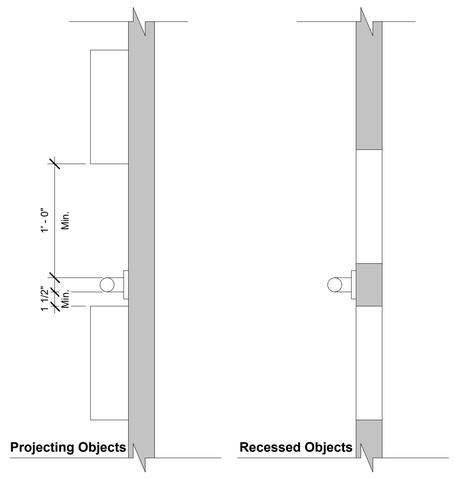
4 DT_Sheet A605_Drinking Fountain_Front View
1/2" = 1'-0"



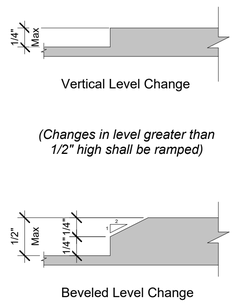
5 DT_Sheet A605_Clear Width @ Doorways
1/2" = 1'-0"



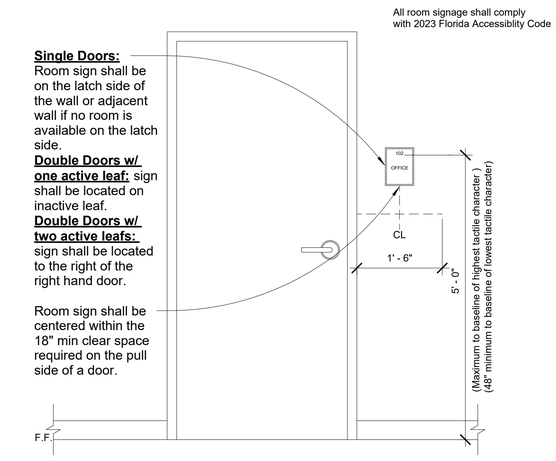
6 DT_Sheet A605_Fire Extinguisher Mounting Heights
1" = 1'-0"



7 DT_Sheet A605_Spacing of Grab Bars
1 1/2" = 1'-0"



8 DT_Sheet A605_Level Change
12" = 1'-0"



9 DT_Sheet A605_Signage Mounting Heights
3/4" = 1'-0"

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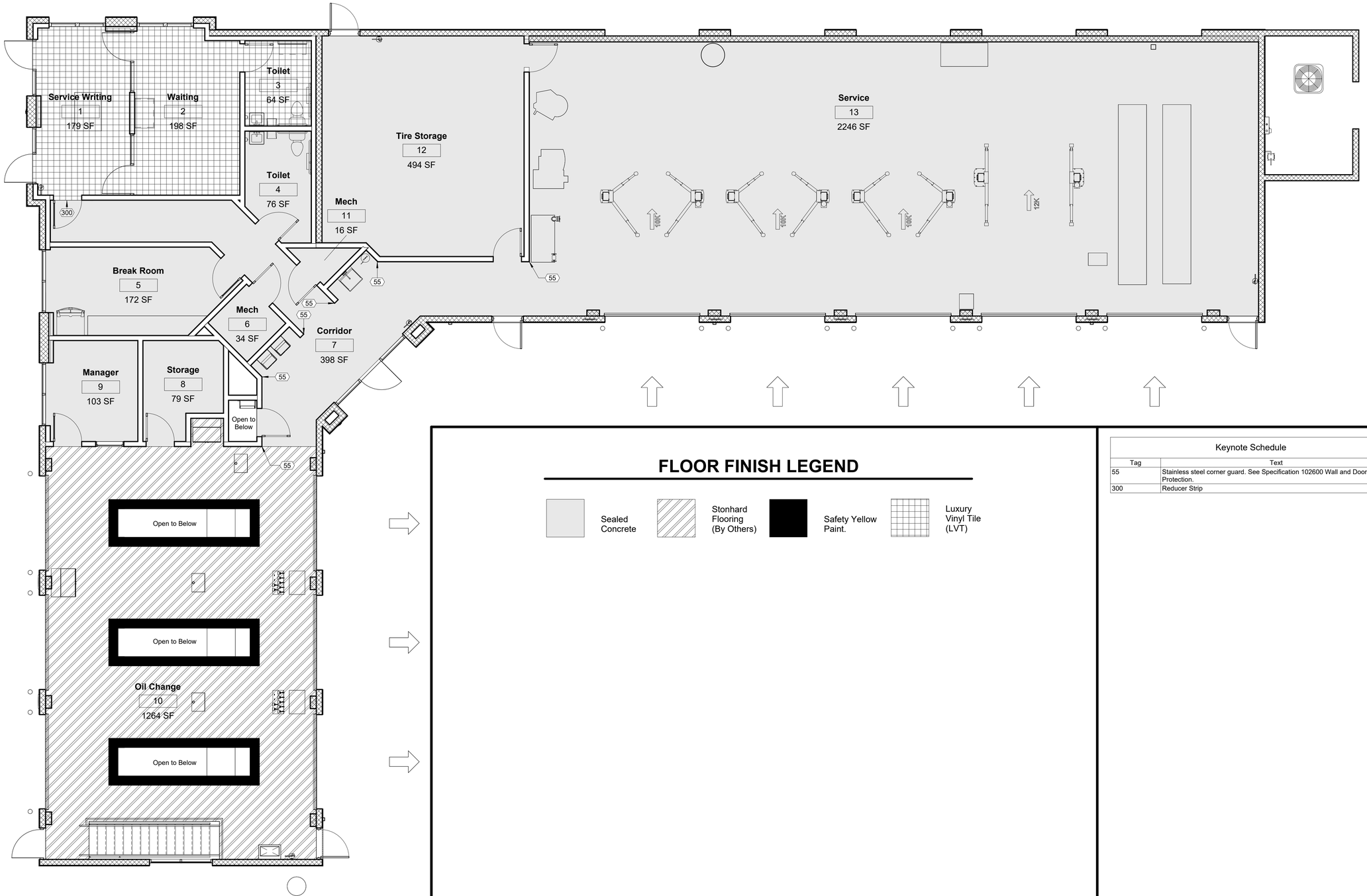
Interior Dimensional Info.

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A605

Scale: As indicated

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2 07_Floor Finish Plan_Main
3/16" = 1'-0"

FLOOR FINISH LEGEND

- Sealed Concrete
- Stonhard Flooring (By Others)
- Safety Yellow Paint.
- Luxury Vinyl Tile (LVT)

Keynote Schedule	
Tag	Text
55	Stainless steel corner guard. See Specification 102600 Wall and Door Protection.
300	Reducer Strip

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Floor Finishes - Main

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

A610

Scale As indicated

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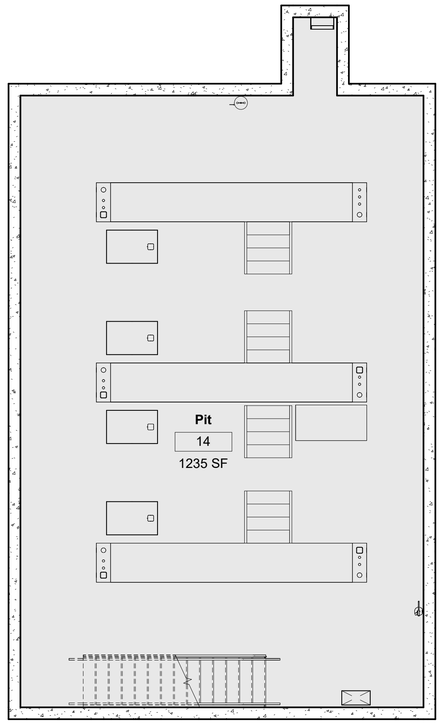
FLOOR FINISH LEGEND

Sealed Concrete

Stonhard Flooring (By Others)

Safety Yellow Paint.

Luxury Vinyl Tile (LVT)



1 06_Floor Finish Plan_Pit
3/16" = 1'-0"

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06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

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Floor Finishes - Pit

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

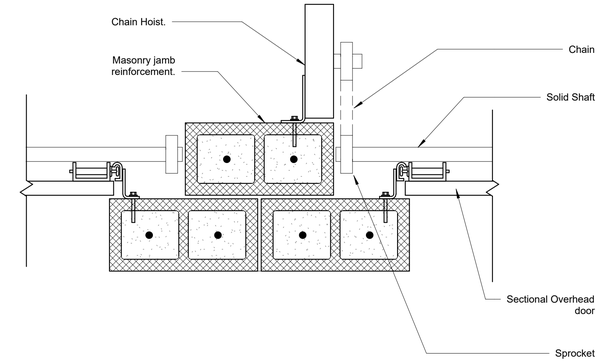
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Scale As indicated

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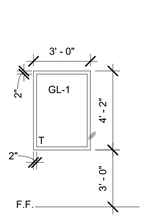
Door and Frame Schedule

Number	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Glass	UL Label	Notes
1	3' - 0"	7' - 0"	1 3/4"	SF	ALUM / GL	Factory Finish	3	ALUM	Factory Finish	Tempered		If required by the Fire Marshal or AHJ, add lettering that reads "This door must remain unlocked when business is occupied."
2	3' - 0"	7' - 0"	1 3/4"	SF	ALUM / GL	Factory Finish	3	ALUM	Factory Finish	Tempered		If required by the Fire Marshal or AHJ, add lettering that reads "This door must remain unlocked when business is occupied."
3	3' - 0"	7' - 0"	1 3/4"	SF	ALUM / GL	Factory Finish	3	ALUM	Factory Finish	Tempered		
4	3' - 0"	7' - 0"	1 3/4"	SF	ALUM / GL	Factory Finish	3	ALUM	Factory Finish	Tempered		
5	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A		
6	3' - 0"	7' - 0"	1 3/4"	FV	Wood / Glass	Factory Finish	1	Hollow Metal	Painted	Tempered		
7	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A		
8	3' - 0"	7' - 0"	1 3/4"	FV	Wood / Glass	Factory Finish	1	Hollow Metal	Painted	Tempered		
9	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A		
10	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A		
11	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A		
12	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A		
13	3' - 0"	7' - 0"	1 3/4"	FV	Wood / Glass	Factory Finish	1	Hollow Metal	Painted	Tempered		
14	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
15	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
16	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
17	3' - 0"	7' - 0"	1 3/4"	SF	ALUM / GL	Factory Finish	3	ALUM	Factory Finish	Tempered		
18	3' - 0"	7' - 0"	1 3/4"	F	HM	Painted	2	HM	Painted	N/A		
19	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
20	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
21	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
22	3' - 0"	7' - 0"	1 3/4"	SF	ALUM / GL	Factory Finish	3	ALUM	Factory Finish	Tempered		If required by the Fire Marshal or AHJ, add lettering that reads "This door must remain unlocked when business is occupied."
23	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A	45 Min.	Provide fire rating label on door and frame.
24	3' - 0"	7' - 0"	1 3/4"	F	HM	Factory Finish	2	HM	Painted	N/A		
25	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
26	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
27	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
28	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
29	10' - 0"	12' - 0"	2 1/8"	OH	Metal / Glass	Factory Finish	N/A	N/A	Factory Finish	Tempered		
30	3' - 0"	7' - 0"	1 3/4"	F	HM	Painted	2	HM	Painted	N/A		
31	3' - 0"	7' - 0"	1 3/4"	F	Wood	Factory Finish	1	Hollow Metal	Painted	N/A	45 Min.	Provide fire rating label on door and frame.
32	3' - 0"	7' - 0"	1 3/4"	F	HM	Painted	2	HM	Painted	N/A		

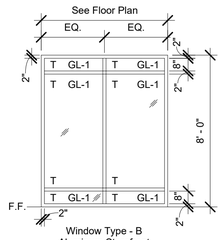


1 DT_Sheet A620_Chain Hoist Detail
1 1/2" = 1'-0"

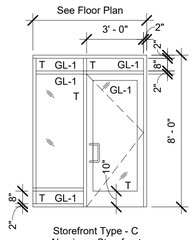
WINDOW LEGEND



Window Type - A
Aluminum Storefront

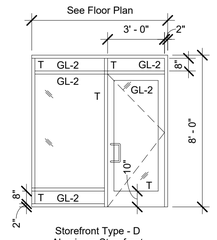


Window Type - B
Aluminum Storefront



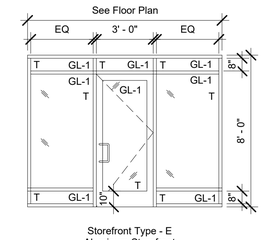
Storefront Type - C
Aluminum Storefront

See Floor Plan for orientation.

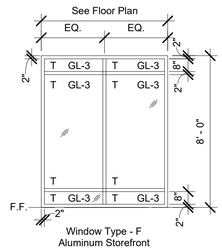


Storefront Type - D
Aluminum Storefront

See Floor Plan for orientation.

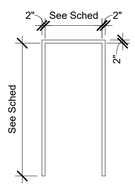


Storefront Type - E
Aluminum Storefront

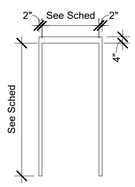


Window Type - F
Aluminum Storefront

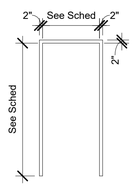
DOOR AND FRAME LEGEND



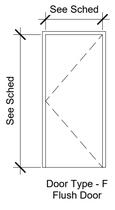
Frame Type - 1
Hollow Metal



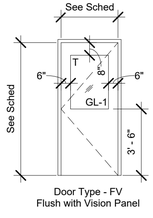
Frame Type - 2
Hollow Metal



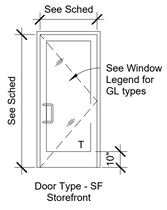
Frame Type - 3
Aluminum



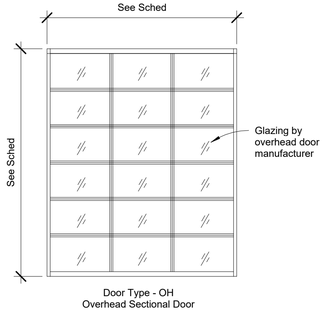
Door Type - F
Flush Door



Door Type - FV
Flush with Vision Panel



Door Type - SF
Storefront



Door Type - OH
Overhead Sectional Door

NOTE: Refer to floor plan for direction of door swing.

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STATE OF MISSISSIPPI
06/15/2026

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	4/21/2026
IFB-0	Issued for Bid	06/15/2026

2026
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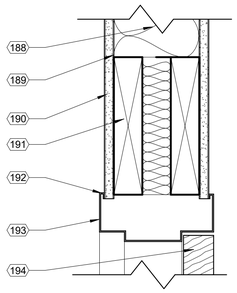
Schedules

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	TAA

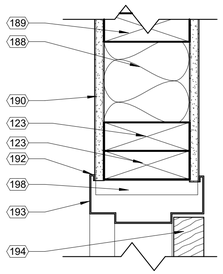
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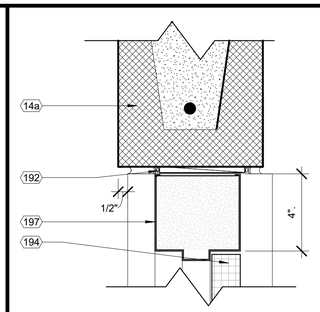
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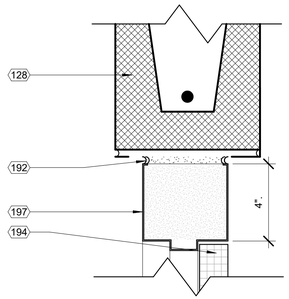
1 DT_Sheet A621_Door Head Detail_Wood
3" = 1'-0"



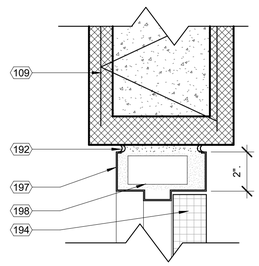
2 DT_Sheet A621_Door Jamb Detail_Wood
3" = 1'-0"



3 DT_Sheet A621_Door Head Detail_Masonry (Exterior)
3" = 1'-0"

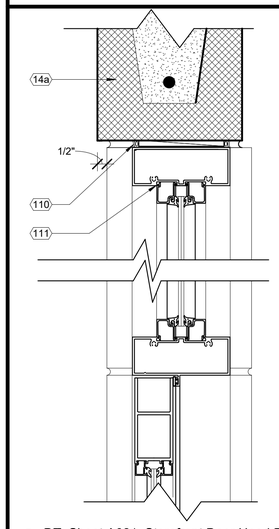


4 DT_Sheet A621_Door Head Detail_Masonry (Interior)
3" = 1'-0"

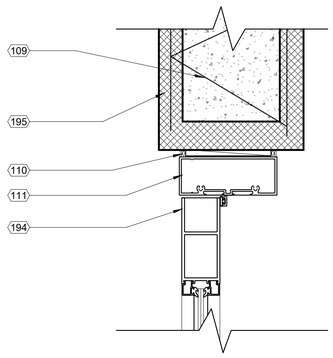


5 DT_Sheet A621_Door Jamb Detail_Masonry
3" = 1'-0"

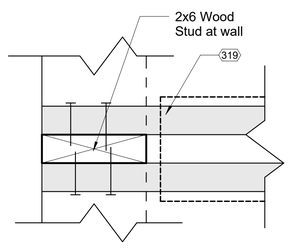
Keynote Schedule	
Tag	Text
6	Lay-in acoustical ceiling tile and grid, supported from structure.
14a	Painted scored CMU, projecting forward 1/2 inch (bond beam where indicated; see Structural). See Specification 042200 Concrete Unit Masonry. Color as indicated on Finish Schedule.
109	Horizontal joint reinforcement at 16" o.c. vertical.
110	Sealant with backer rod.
111	Aluminum storefront with insulated glazing. See Details.
123	Blocking. See Structural.
128	Painted smooth-face 8" concrete-filled "U" block bond beam. Condition varies. See Structural.
188	Kraft-faced batt insulation. Kraft in contact with gypsum board.
189	2x wood studs at 16" o.c.
190	1/2" painted gypsum board.
191	Double 2"x8" wood header.
192	Caulk all around on both sides.
193	Painted hollow metal frame with returns. See Finish Schedule for color.
194	Scheduled door. See plans for details.
195	CMU.
197	Painted hollow metal frame, grouted solid.
198	Jamb anchors. Provide 3 per jamb.
319	



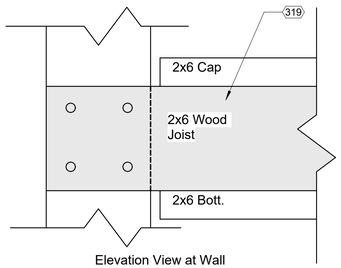
6 DT_Sheet A621_Storefront Door Head Detail_Masonry
3" = 1'-0"



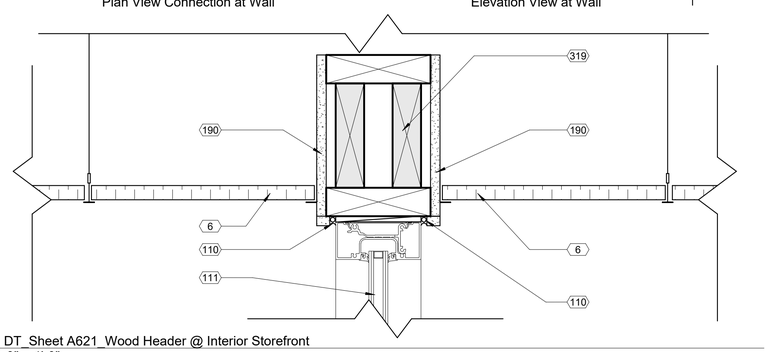
7 DT_Sheet A621_Storefront Door Jamb Detail_Masonry
3" = 1'-0"



Plan View Connection at Wall



Elevation View at Wall



8 DT_Sheet A621_Wood Header @ Interior Storefront
3" = 1'-0"

Material Schedule

Abbreviation	Material Description	Manufacturer	Style Name or Number	Color (Description)	Size	Finish	Material Notes
ACT-1	Acoustical Ceiling Tile	Armstrong	1775 Dune	White	24"x24"	N/A	Suprafine XL 9/16" Exposed Tee Grid
P-1	Paint - Color 1	Sherwin Williams	See Paint Schedule on G202	SW6966 Blueblood	N/A	See Paint Schedule on G202	
P-2	Paint - Color 2	Sherwin Williams	See Paint Schedule on G202	Custom Color (Dover Gray)	N/A	See Paint Schedule on G202	
P-3	Paint - Color 3	Sherwin Williams	See Paint Schedule on G202	SW7669 Summit Gray	N/A	See Paint Schedule on G202	
P-4	Paint - Color 4	Sherwin Williams	See Paint Schedule on G202	SW6959 Bluechip	N/A	See Paint Schedule on G202	
P-5	Paint - Color 5	Sherwin Williams	See Paint Schedule on G202	Safety Yellow	N/A	See Paint Schedule on G202	
P-6	Paint - Color 6	Sherwin Williams	See Paint Schedule on G202	Safety Red	N/A	See Paint Schedule on G202	
P-7	Paint - Color 7	Sherwin Williams	See Paint Schedule on G202	SW7006 Extra White	N/A	See Paint Schedule on G202	
P-8	Paint - Color 8	Sherwin Williams	See Paint Schedule on G202	SW7650 Ellie Gray	N/A	See Paint Schedule on G202	
P-9	Paint - Color 9	Sherwin Williams	See Paint Schedule on G202	SW7008 Alabaster	N/A	See Paint Schedule on G202	
P-10	Paint - Color 10	Sherwin Williams	See Paint Schedule on G202	SW6258 Tricorn Black	N/A	See Paint Schedule on G202	
PL-1	Plastic Laminate - Color 1	Wilsonart	4880-38	Carbon Mesh	N/A	N/A	
RB	Rubber Base	Ropee	Pinnacle	669 Battleship	4"	N/A	
SC	Sealed Concrete	Sherwin Williams	See Paint Schedule on G202	Haze Gray	N/A	See Paint Schedule on G202	Add SharkGrip for added slip resistance
SH	StonHard Flooring	StonHard	N/A	N/A	N/A	N/A	Provided and installed by (Others)
FRP-1	Fiberglass Reinforced Panels	Marlite	4'X8' Textured Panels	P430N Medium Gray	4'X8'	Pebbled	
LVT	Lux. Vinyl Tile	Tarkett	Contour Mineral Basalt PCMB	4645 Paved Path	12"x36"		

Dover Gray is a Custom Color:

Deep Base CCE Colorant				
W1 White	OZ	32	64	128
B1 Black	-	14	1	1
R2 Maroon	2	26	1	1
Y3 Deep Gold	-	17	1	1
	-	4	-	1
	-	17	1	1

Finish Schedule for Additional Items

1.	Interior Doors & Frames: Paint P-3	9.	Keynote 17: P-9	17.	Interior Door Hardware: Satin Chrome	25.	Dumpster Gate / Frame: P-8	33.	Exterior Door Hardware: Black
2.	Bollards & Dumpster Posts: P-10	10.	Keynote 19: P-8	18.	Interior Window Gaskets: Light Gray	26.	Overhead Door: Black Anodized	34.	Keynote 327 (Reducer Strip): Charcoal 123
3.	Exterior Pole Sign: By others.	11.	SSMR at Canopies: Cityscape by Berridge	19.	Exterior Aluminum Storefront & Doors: Black	27.	Countertop Carbon Mesh: PL1	35.	Bar Joists: Prefinished Gray
4.	Conductor Head / Downspouts: Match P-8	12.	Exterior HM Doors and Frames: P-8	20.	Abrasive Nosing: Safety Yellow	28.	SSMR @ Dumpster: Cityscape by Berridge	36.	Metal Deck: Prefinished Gray
5.	Electrical covers to be brushed aluminum	13.	Knox Box: Black	21.	Interior Aluminum Storefront & Door: Clear Anodized	29.	Lintel at OH Doors: P-9		
6.	Paint all louvers to match adjacent finish	14.	Roof: White TPO	22.	Chair Rail: Stainless Steel by others	30.	Hurricane Shutters: Black		
7.	Keynote 14a: P-9	15.	Coping Cap @ Dumpster: Cityscape (Hickman)	23.	Word Wall: P-3	31:	Keynote 276: P-10		
8.	Stairs & Railings & Interior Ladder (if req'd): P-5	16.	Coping Cap @ Bldg: Cityscape (Hickman)	24.	Rear Entry Canopy: Black	32.	Exterior Window Gaskets: Black		

Finish Schedule

Number	Name	Area	Floor Finish	Base Finish	Walls				Ceiling Finish	Remarks
					Rear (North)	Right (East)	Front (South)	Left (West)		
1	Service Writing	179 SF	LVT	RB	P-1 / P-2 / P-3 & Storefront	P-1 / P-2 / P-3	P-1/ P-2 / P-3 & Storefront	P-1 / P-2 / P-3 & Storefront	ACT-1	
2	Waiting	198 SF	LVT	RB	P-3 with Vinyl Graphics	P-1 / P-2 / P-3	P-1/ P-2 / P-3 & Storefront	P-1 / P-2 / P-3 & Storefront	ACT-1	
3	Toilet	64 SF	LVT	RB	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	
4	Toilet	76 SF	SC	RB	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	
5	Break Room	172 SF	SC	RB	P-3	P-3	P-3	P-3	ACT-1	
6	Mech	34 SF	SC	RB	P-3	P-3	P-3	P-3	No Ceiling	
7	Corridor	398 SF	SC	RB	P-3	P-3	P-3	P-3	ACT-1	
8	Storage	79 SF	SC	RB	P-3	P-3	P-3	P-3	ACT-1	
9	Manager	103 SF	SC	RB	P-3	P-3	P-3	P-3	ACT-1	
10	Oil Change	1264 SF	SH	None / RB	P-3	P-4 / P-1	P-3	P-4 / P-1 with Vinyl Graphics	No Ceiling	RB on gypsum board walls only. See G301 for paint pattern
11	Mech	16 SF	SC	RB	P-3	P-3	P-3	P-3	No Ceiling	
12	Tire Storage	494 SF	SC	RB	P-3	P-3	P-3	P-3	No Ceiling	
13	Service	2246 SF	SC	None / RB	P-4 / P-1	P-3	P-4 / P-1 with Vinyl Graphics	P-3	No Ceiling	RB on gypsum board walls only. See G301 for paint pattern
14	Pit	1235 SF	SC	None	Unpainted	Unpainted	Unpainted	Unpainted	Exposed to structure above	Paint all structural steel in Pit P-5 Safety Yellow

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REGISTERED ARCHITECT
Timothy Arnold Aho
4957
STATE OF MISSISSIPPI
06/15/2026

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Finish Schedules & Head, Jamb, and Sill Details

Project number	25046
Date	4/21/2026
Drawn by	MB
Checked by	TAA

A621

Scale As indicated

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*See Civil for actual site conditions, including dumpster enclosure location and orientation.

1 02_3D View_Front (Southwest)



*See Civil for actual site conditions, including dumpster enclosure location and orientation.

2 03_3D View_Rear (Northeast)

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3D Views

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	N/A

R100

Scale

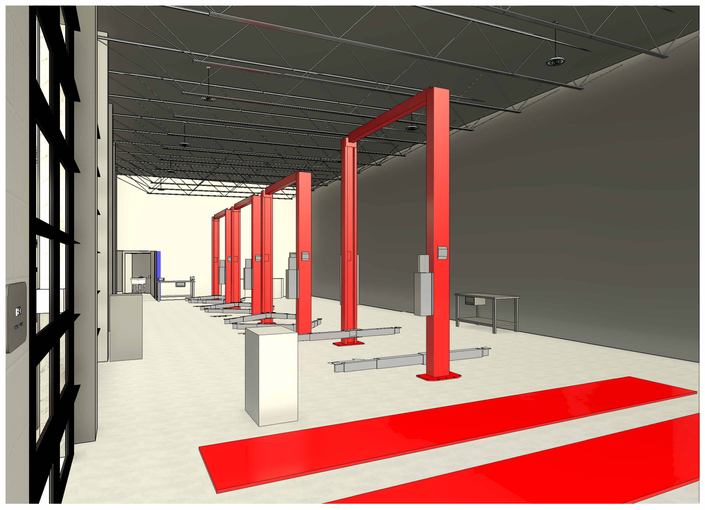
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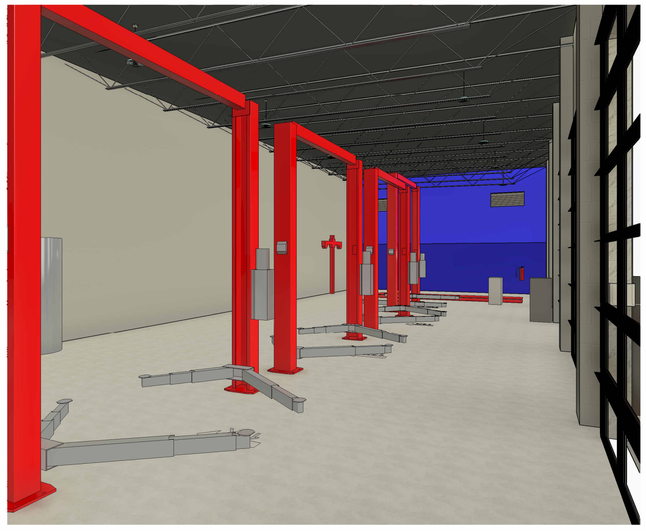
1 04_3D View_Oil Change A



2 05_3D View_Oil Change B



3 06_3D View_Service A



4 07_3D View_Service B

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3D Views

Project number	25046
Date	4/21/2026
Drawn by	ARC
Checked by	N/A

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SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements - add additional rows as needed.)	Submittal review, shop (3) and/or field inspection				
1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source		
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection	N	Periodic or as required by the research report issued by an approved source		
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic		
3. Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints:					
1) Complete penetration groove welds 5/16" or greater in *risk category* III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic		
2) Complete penetration groove welds 5/16" or greater in *risk category* II	Shop (3) or field ultrasonic testing - 10% of welds minimum	Y	Periodic		
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	Y	Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection				
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		Y	Observe or Perform as noted (4)		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)			Observe (4)		
1) Pre-tensioned and slip-critical joints		N			
a) Turn-of-nut with matching markings		N	Periodic		
b) Direct tension indicator		N	Periodic		
c) Twist-off type tension control bolt		N	Periodic		
d) Turn-of-nut without matching markings		N	Continuous		
e) Calibrated wrench		N	Continuous		
2) Snug-tight joints		Y	Periodic		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		Y	Perform (4)		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) or field inspection	Y	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic		
1705.2.2 Cold-Formed Steel Deck					
1. Manufacturer documents (Verify reports and certificates as listed in SDI QA/QC, Section 2, Paragraphs 2.1 and 2.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of steel deck, mechanical fasteners and welding materials	Shop (3) and field inspection	Y	Periodic		
3. Cold-formed steel deck placement:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.1)		Y	Perform (4)		
b. Inspection tasks After Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.2)		Y	Perform (4)		
4. Cold-formed steel deck welding:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)		Y	Observe (4)		
b. Inspection tasks During Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.4)		Y	Observe (4)		
c. Inspection tasks After Welding (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.5)		Y	Perform (4)		
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)		Y	Observe (4)		
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)		Y	Observe (4)		
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)		Y	Perform (4)		
1. Material verification of cold-formed steel deck:					
a. Identification markings	Field inspection		Periodic		
b. Manufacturer's certified test reports	Submittal Review		Each submittal		
2. Concrete placement of cold-formed steel deck to supporting structure:	Shop (3) and field inspection				
a. Welding			Periodic		
b. Other fasteners (in accordance with AISC 360,Section N6)					
1) Verify fasteners are in conformance with approved submittal			Periodic		
2) Verify fastener installation is in conformance with approved submittal and manufacturer's recommendations			Periodic		
1705.2.3. Open-Web Steel Joists and Joist Girders					
1. Installation of open-web steel joists and joist girders.					
a. End connections - welding or bolted.	per SJI CJ or SJI 100	Y	Periodic		
b. Bridging - horizontal or diagonal.					
1) Standard bridging.	per SJI CJ or SJI 100	Y	Periodic		
2) Bridging that differs from the specifications listed in SJI CJ or SJI 100.		Y	Periodic		
1705.3 Concrete Construction					
1. Inspect reinforcement, including prestressing tendons, and verify placement.	Shop (3) and field inspection	Y	Periodic		
2. Inspection of anchors cast in concrete.	Shop (3) and field inspection	Y	Periodic		
3. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	Field inspection	Y	Periodic or as required by the research report issued by an approved source		
a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads.		Y	Continuous		
b. Mechanical and adhesive anchors note defined in 4a.		Y	Periodic		
4. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
5. a. Prior to placement, fabricate specimens for strength tests, fresh concrete sampling, perform slump or slump flow, and air content density tests, and determine temperature of concrete.	Shop (3) and field inspection	Y	Continuous		
6. b. Verify that concrete specimens for strength tests are maintained in the required initial curing and laboratory curing environment, and that the maximum and minimum temperatures during the initial curing period are reported.	Shop (3) and field inspection	Y	Continuous		
7. Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic		
8. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic		
1705.4 Masonry Construction					
MINIMUM VERIFICATION REQUIREMENTS					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review		Prior to Construction		
(B) Levels 2 and 3 Quality Assurance:					
1. As masonry construction begins, verify that the following are in compliance:					
a. Proportions of the site-prepared mortar	Field inspection	Y	Periodic		
c. Grade, type, and size of reinforcement, and anchor bolts.	Field inspection	Y	Periodic		
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field inspection	Y	Level 2 - Periodic		
		N	Level 3 - Continuous		
b. Placement of reinforcement, connectors, and anchor bolts	Field inspection	Y	Level 2 - Periodic		
		N	Level 3 - Continuous		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection	Y	Periodic		
b. Placement of masonry units and mortar joint construction	Field inspection	Y	Periodic		
c. Size and location of structural members	Field inspection	Y	Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection	Y	Level 2 - Periodic		
		N	Level 3 - Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	Field inspection	Y	Periodic		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field inspection	Y	Level 2 - Periodic		
		N	Level 3 - Continuous		
1705.6 Soils					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic		
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic		
3. Perform classification and testing of compacted fill materials.	Field inspection	Y	Periodic		
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous		
5. Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly.	Field inspection	Y	Periodic		
1705.10 Fabricated items					
1. List of fabricated items requiring special inspection during fabrication:	Shop inspection	N	As noted in each applicable shop activity		
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):					
1705.11.3 Wind-resisting Components					
1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	Y	Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	Y	Periodic		
1705.12.1 Structural Steel Special Inspections for Seismic Resistance					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	N	In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	In accordance with AISC 341		

GENERAL NOTES

1. Contractor shall compare structural drawings and architectural drawings. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding. In all cases, more stringent requirement governs. Architectural dimensions and elevations will control.
2. Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval.
3. All or parts of these drawings were produced with computer aided drafting. Drawings are available from the Engineer in DWG format on request.
4. Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.
5. Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction.
6. Review of submittal information shall be for general compliance with the contract documents and shall not include checking of detailed dimensions or detailed quantities.

DESIGN LOADS

1. Reference code for loading 2018 IBC.
   a. Building Classification II
   b. Wind Load
      1) Basic Wind Speed (3 sec gust) 160 mph
      2) Wind Exposure C
      3) Internal Pressure Coefficient +/- 0.18
      4) Velocity Pressure (qz) 55.7 psf
   c. Roof Snow Load
      1) Ground Snow Load (Pg) 10 psf
      2) Flat Roof Snow Load (Pf) 10 psf
      3) Snow Exposure (Ce) 1.0
      4) Importance Factor 1.0
      5) Thermal Factor (Ct) 1.0
   d. Seismic Load
      1) Importance Factor 1.0
      2) Mapped Spectral Response Accelerations
         a) Ss 0.094
         b) S1 0.058
      3) Site Class D
      4) Spectral Response Coefficients
         a) Sds 0.101
         b) Sd1 0.093
      5) Seismic Design Category B
      6) Base Seismic-Force-Resisting System(s) and Response Modification Factor
         a) Intermediate Reinforced Masonry Shear Walls 3.5
      7) Design Base Shear x.x kips
      8) Seismic Response Coefficient (Cs) 0.xx
      9) Analysis Procedure = Equivalent Lateral Force
   e. Live Load
      1) Roof Load 20 psf
      2) Service Bay and slabs on grade 100 psf

FOUNDATIONS

1. Foundation design for this project was based on soils information provided by ECS
2. Bearing capacity---------- 2000 psf
3. All footings are to bear on engineered fill.
4. Install corner bars at all footing intersections and corners (Provide lap length e.w.)
5. All footing elevations are given to the top of the footings.
6. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed.
7. Coordinate foundation elevations with plumbing requirements. Step footings as required to clear plumbing lines.
8. Provide drainage for all retaining walls, see architectural for notes and details.

MASONRY

1. All masonry work to be in accordance with "Building Code Requirements for Concrete Masonry Structures" TMS 402-2016 and "Specifications for Masonry Structures" TMS 602-2016
2. Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade whichever is higher.
3. Use ladder type joint reinforcement (H&B 220 LADDER-MESH or better) at 16" on center in all cavity walls where brick is used for one or more of the wythes.
4. Use truss type joint reinforcement (H&B 120 TRUSS-MESH or better) at 16" o/c. in all other masonry walls.
5. Provide joint reinforcement at 8" o/c. for all walls constructed with stack bond.
6. Use Type "M" or Type "S" mortar in accordance with TMS 602 Table SC-1 and ASTM C270.
7. Minimum compressive strength of concrete masonry f'm = 2500 psi. Submit for review test data on strength of units before starting any masonry work.
8. Minimum compressive strength of grout f'm = 2500 psi. Use 3/8" max size aggregate. See Special Inspection Schedule for any testing requirements. Grout slump shall be 8" to 11".
9. Use "Fine" grout for all reinforced piers and reinforced wall in accordance with ASTM C 476.
10. Each grout lift shall not exceed 5'-0" unless cleanouts are provided in the bottom course.
11. Fill cells under all lintels with grout.
12. Provide lintels over all openings through wall. See lintel details for reinforcement.
13. Unless otherwise noted provide control joints in all walls 4'-0" from wall intersections or corners and at 20'-0"
14. Extend all horizontal steel and bond beams thru control joints.
15. Vertical Reinforcement shall extend into the bond beam.
16. Unless noted, all bars are to be located at the center of cell. Where bars are specified at each face, provide minimum ¾" clear space between reinforcement and CMU face shell.
17. Anchor bolt into grouted cell locations only, unless noted otherwise.

REINFORCING STEEL AND CONCRETE

1. All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI 318-14).
2. All detailing is to be in accordance with "ACI Detailing Manual" SP-66
3. Use of Calcium Chloride, Chloride Ions, or other salts in concrete are prohibited.
4. Concrete Properties: See Schedule
   a. All concrete must obtain 7 day strength of 70% of design strength.
   b. Concrete mixes may use up to 25% of cementious weight as fly ash.
   c. Concrete mixes may use water reducers, accelerators or retarders with prior approval.
   d. Do not provide air entrainment in concrete mixes for interior slabs.
5. All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete.
6. Welded wire fabric shall be ASTM 185 and shall lap 2 cross wires or 6" whichever is greater on all sides. All laps shall be wired together.
7. Provide (2) #4 bars x 4'-0" at re-entrant corner locations Typical. Locate 3" away from corner and space 1'-0" apart.
8. All slabs on grade are 6", unless noted. Slabs are to be placed on 10 Mil, PVC vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W2.9 x W2.9 WWF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed a 12'-0" on centers. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile.
9. Minimum concrete cover for reinforcement:
   a) Footings 3" bottom, 2" sides
   b) Cast-In-Place Walls
      Surfaces exposed to weather or soil 2" - #6 and greater, 1-1/2" - #5 and smaller
      Other surfaces 3/4"
10. Provide corner bars at all wall and footing intersections.
11. No openings shall be allowed to penetrate any concrete work, unless it is shown on the structural framing plans without prior written approval. Contractor shall submit for review locations of proposed openings not shown 30 days prior to pouring any concrete.
12. Provide a continuous water bar at all wall construction joints below ground level.
13. Use 3/4" chamfer for all exposed corners unless noted.
14. Testing samples for preparing strength test specimens of each concrete mixture placed each day shall be taken in accordance with (1) through (3).
    1. At least once a day
    2. At least once for each 150yd^3 of concrete
    3. At least once for each 5000ft^2 of surface area for walls or slabs.

STRUCTURAL STEEL

1. All detailing, fabricating, and erection of structural steel shall be in accordance with the AISC 360-16 "Specifications for Structural Steel Buildings". All reactions shown are ASD loads.
2. All connections are to be detailed as Type 2 "simple frame connections".
3. All structural steel W shapes shall be ASTM A992.
4. All structural steel Tube sections shall be ASTM A500 Grade B.
5. All structural steel Pipe sections shall be ASTM A501.
6. All structural steel channels, angles and other sections shall be ASTM A36, unless noted.
7. Headed Studs shall be Type B Shear Connectors.
8. Shop and field connections shall be welded with E-70XX electrodes or bolted with 3/4" dia. A-325N or A-325F bolts, unless noted.
9. Use 3/4" cap and bearing plates, unless noted.
10. Use 3/4" dia x 1'-0" long ASTM 1554 Grade 36 anchor bolts, unless noted. In lieu of cast bolts, 3/4"x1'-0" long HAS rods epoxied with Hilti HVA epoxy, or equal, may be used with prior approval.
11. Grout under baseplates with ASTM C 1107 cementitious 6000 psi Non-Shrink Grout.
12. Structural steel shall be shop primed per SSPC paint system No. 7. Primer shall be SSPC paint with a minimum thickness of 2.0 MILS. Omit Paint at surfaces to be fireproofed.
13. Provide L 3"x3"x1/4" frames around all roof opening through metal decking.

STEEL JOIST

-

1. All steel joists shall conform to the standard specifications for the joist noted, as adopted by the Steel Joist Institute.
2. Refer to Components & Cladding Table and Diagram for roof uplift zones and pressures. Use 8psf dead load for net uplift determination.
3. K Series joists shall be welded to bearing plates or steel members with two 1/8" fillet welds 2" long.
4. All joist bearing plates are to be set 1/4" above the top of concrete masonry units.
5. Weights of mechanical units are not included in the joist loading designation shown. Design joist for loading shown plus the weight of mechanical shown. General contractor is to verify all weights of mechanical units with Mechanical Subcontractor before submitting shop drawings.

REQUIRED STRUCTURAL SUBMITTALS

-

1. Concrete Mix Designs conforming to ACI 318 requirements
2. Reinforcing steel for all cast in place concrete work shown on the strucural drawings.
3. Reinforcing steel for all masonry work shown on the strucural drawings.
4. Structural steel.
5. Bar joist, composite floor deck, and roof deck.
6. Aggregate, helical anchor, or other foundation site improvement method, if specified on the project.

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STATE OF MISSISSIPPI

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
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IFB-0	Issue for Bid	06.15.2026

2026
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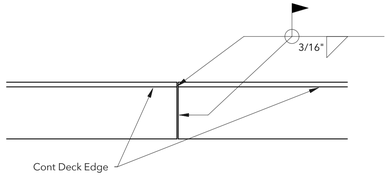
General Notes & Schedule of Special Inspections

Project number	25046
Date	04.21.2026
Drawn by	jcj
Checked by	jd

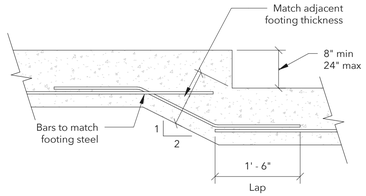
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Scale 3/4" = 1'-0"

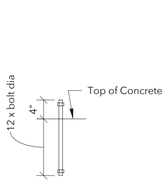
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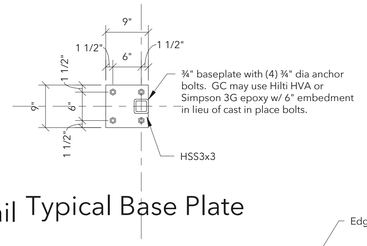
Typical Roof Deck Edge Angle Splice Detail



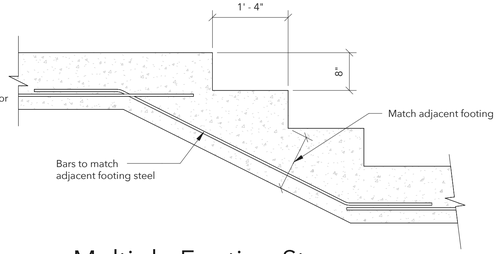
Single Footing Step



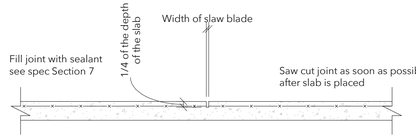
Typical Anchor Bolt Detail



Typical Base Plate

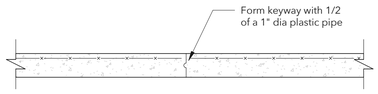


Multiple Footing Step

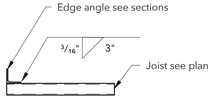


Note: Saw cut joint must be made the same day the slab is placed

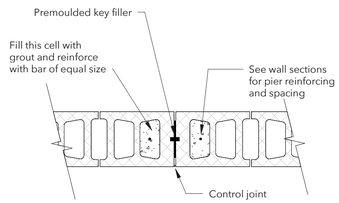
Typical Control Joint



Typical Construction Joint

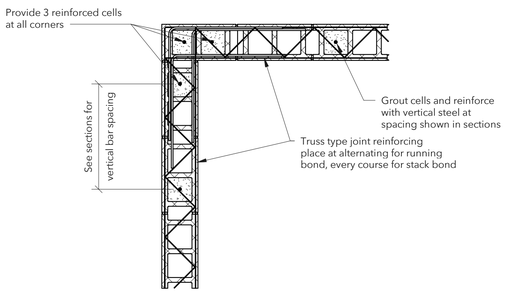


Deck Edge
Fastening Detail

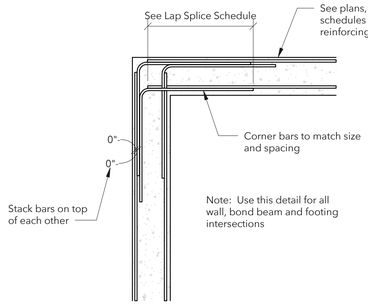


Note:
1. See architectural plan for spacing. If spacing is not shown place joints at 3 times the wall height but not greater than 20'-0" o.c., and at 4'-0" from corners
2. Extend all horizontal reinforcing including bond beam steel thru control joints.

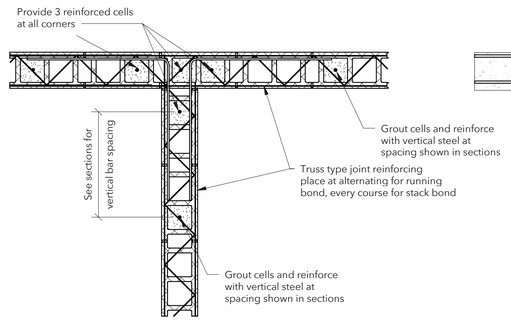
Typical MasonryWall
Control Joint



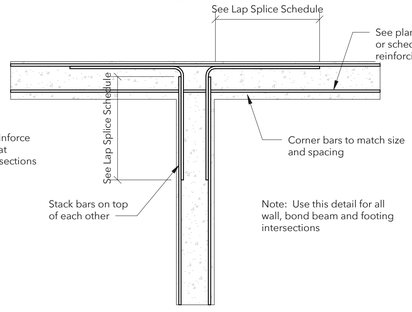
Typical Joint
Reinforcing at Corner



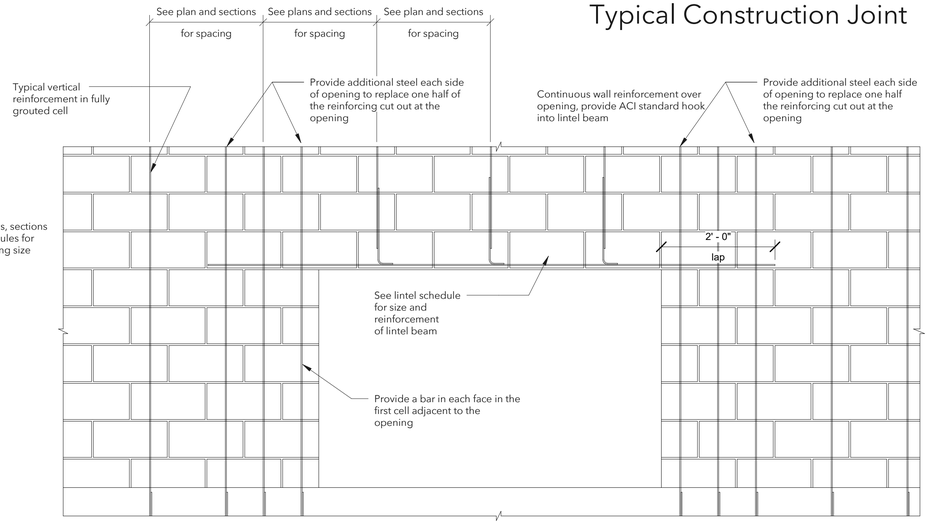
Typical Beam, Wall or Footing
Reinforcing at Corners



Typical Joint Reinforcing
at Intersection



Typical Beam, Wall or Footing
Reinforcing at Intersetions



CMU Lintel Elevation

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issue for Permit	04.21.2026
IFB-0	Issue for Bid	06.15.2026

2026
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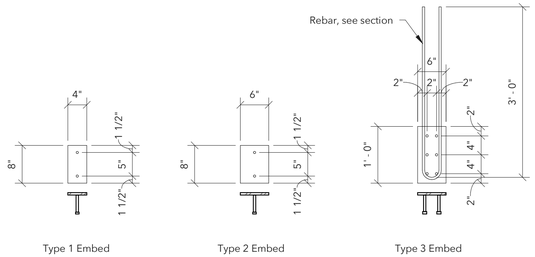
Typical Details

Project number	25046
Date	04.21.2026
Drawn by	jcj
Checked by	jd

S0.2

Scale 3/4" = 1'-0"

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Type 1 Embed | Type 2 Embed | Type 3 Embed

Embed plates

⅜" plate w/ ½"x5"headed studs

Metal Deck Attachment Schedule

Area	Support Fastener/Pattern	Sidelap Fastener/Pattern
Roof Fastening - Zone 1	⅝" puddle weld 36/9	7 - #10 TEK screws
Roof Fastening - Zone 2	⅝" puddle weld 36/9	1 - #10 TEK screws

Reinforcing Steel Lap Splice Lengths

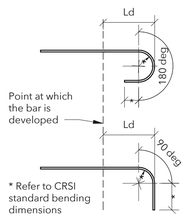
Bar Size	Column Splices	Bm, Ftg & Wall Splices	
		Top Bars	Other Bars
# 3	12"	19"	15"
# 4	15"	25"	19"
# 5	19"	31"	24"
# 6	23"	37"	29"
# 7	26"	54"	42"
# 8	30"	62"	48"
# 9	34"	70"	54"
# 10	38"	79"	61"
# 11	42"	87"	67"

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

Reinforcing Steel Lap Splice & Development Length for Concrete Masonry

Bar Size	Bar in center of wall			Bar in each face of wall
	6" CMU	8" CMU	12" CMU	
#3	16"	16"	16"	16"
#4	21"	21"	21"	30"
#5	32"	26"	26"	46"
#6	61"	43"	40"	85"
#7	NA	60"	46"	115"
#8	NA	NA	61"	NA

Notes:
1. Lengths are for vertical splces in walls.
2. Bar length for center of wall are based on f'm of 1500 psi or greater.
3. Bar length for face of wall are based on f'm of 2000 psi or greater.
4. Refer to General Notes and details for masonry strength.

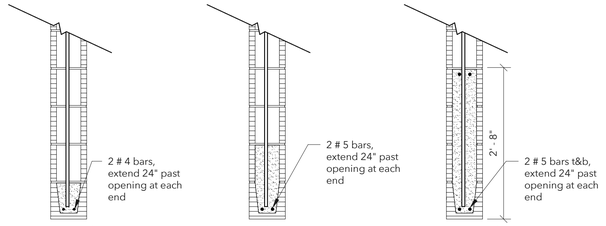


Components and Cladding Schedule a = 6.5'

Area (sf)	Zone 1,2,3 (+) psf	Zone 1 (-) psf	Zone 2 (-) psf	Zone 3 (-) psf	Zone 4 (+) psf	Zone 4 (-) psf	Zone 5 (+) psf	Zone 5 (-) psf
10	24.4	-59.9	-100.5	-151.3	54.8	-59.4	54.8	-73.1
50	20.8	-56.3	-75.7	-90.9	49.2	-53.7	49.2	-61.8
100	19.3	-54.8	-65.0	-65.0	46.8	-51.3	46.8	-57.0

CONCRETE SCHEDULE

Concrete Use	Design Strength	Max W/C Ratio	Slump Limits	Entrained Air Range	Weight	Notes
Basement Walls	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR
Slabs on Composite Metal Deck	4000 psi	n/a	6" to 8"	---	150 pcf	Use HRWR
Slabs on Grade/Grade Beams	4000 psi	n/a	6" to 8"	---	150 pcf	Use HRWR



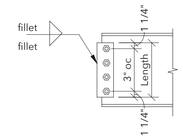
Less than 4'-0" | Less than 8'-0" | Overhead Doors

CMU Lintel Schedule

Beam to Column Single Shear Plate Connection Schedule

Min Beam Depth	Max end reaction	Length	# of bolts	Plate thickness	Fillet weld size
W10	16.7k	5-1/2"	2	5/16"	3/16"

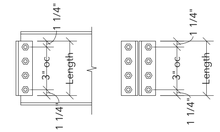
- Use this table for Wide Flange Beams to HSS Columns
- Loads are ASD
- Bolts are 3/4"dia Group A ASTM F3125 Gr A325 in standard or short-slotted holes transverse to direction of load with threads Excluded from shear plane. More than 5 bolts must have short-slotted holes.
- Plate is A36 and welds are E-70XX electrodes
- Beam reactions that exceed the max reaction in this table will use the Double Angle Frame Connection Schedule below.

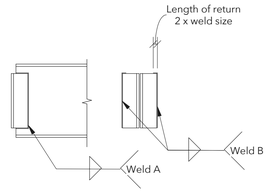


Beam Double Angle Shear Connection Schedule

Min Beam Depth	Max end reaction	Length	rows of bolts	Angle thickness	Weld A fillet size	Weld B fillet size
W10	14.6k	5-1/2"	2	1/4"	3/16"	1/4"

- Use this table for Wide Flange Beams to Wide Flange Columns or other Beams
- Loads are ASD
- Bolts are 3/4"dia Group A ASTM F3125 Gr A325 in standard or short-slotted holes transverse to direction of load with threads Excluded from shear plane.
- Angles are A36 and welds are E-70XX electrodes
- Beam reactions that exceed the max reaction in this table will shall be designed by steel fabricator and submit signed/sealed calculations prepared by a Professional Engineer licensed in the State of the Project





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REGISTERED PROFESSIONAL ENGINEER
06.15.2026
17263
STATE OF MISSISSIPPI

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issue for Permit	04.21.2026
IFB-0	Issue for Bid	06.15.2026

2026
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Schedules

Project number	25046
Date	04.21.2026
Drawn by	jcj
Checked by	jd

S0.3

Scale 3/4" = 1'-0"

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L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issue for Permit	04.21.2026
IFB-0	Issue for Bid	06.15.2026

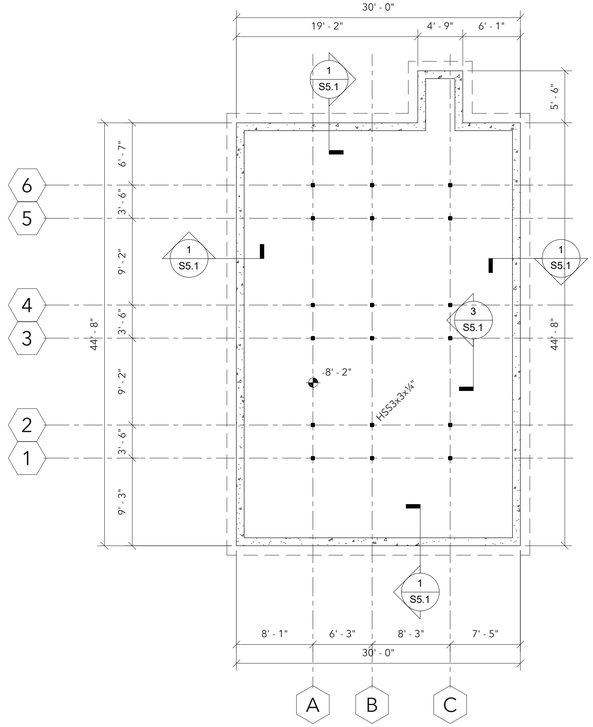
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Foundation Plan

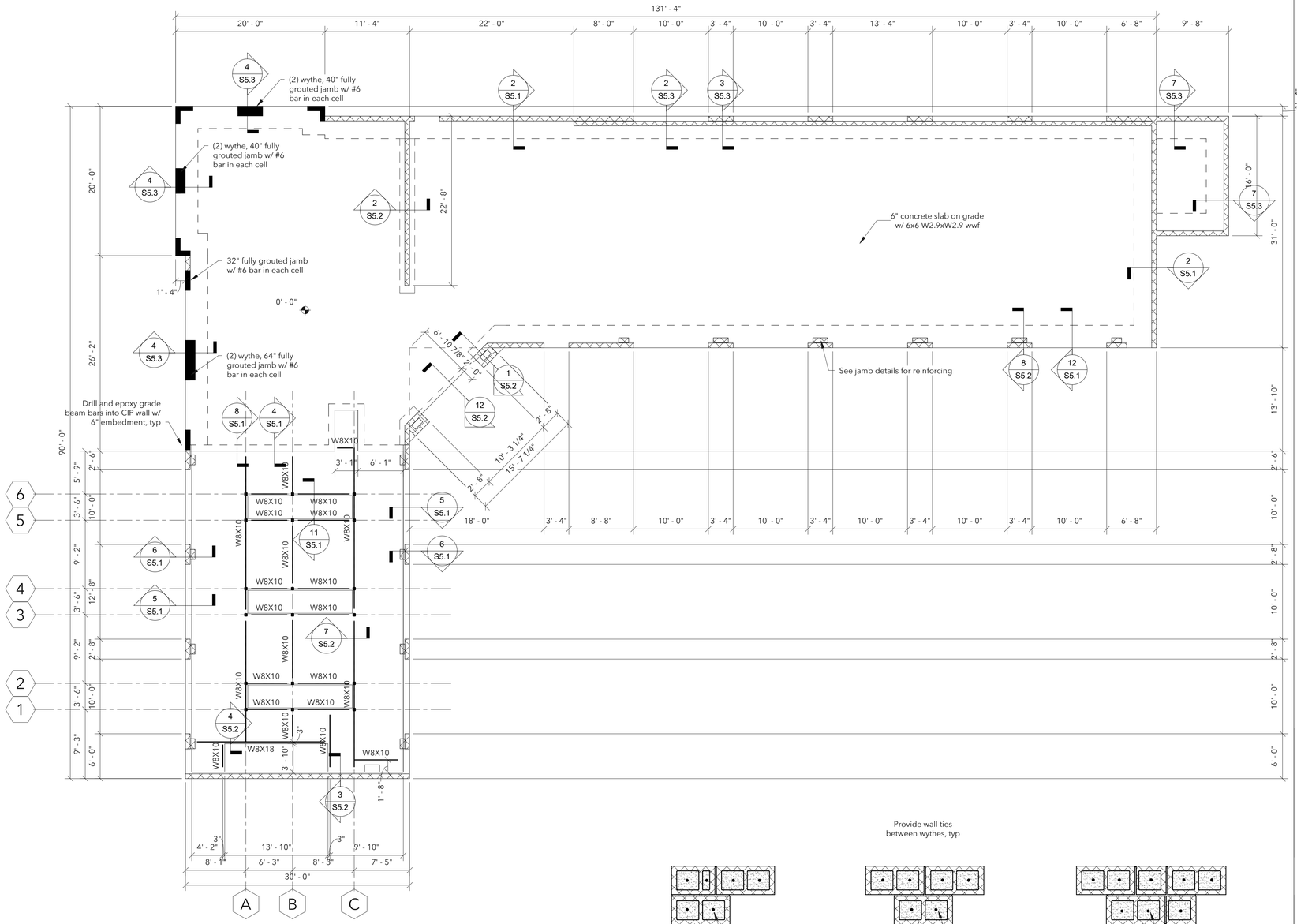
Project number	25046
Date	04.21.2026
Drawn by	jcj
Checked by	jd

S1.1

Scale: As indicated



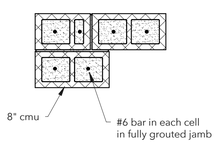
PIT FOUNDATION PLAN
1/8" = 1'-0"



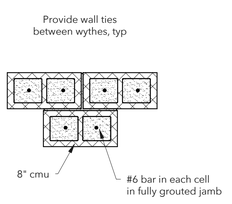
FOUNDATION PLAN
1/8" = 1'-0"

Sheet Notes:

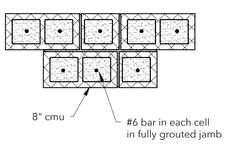
1. See Sheet No S0 for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. Floor construction 3" concrete slab with 6x6 W2.9xW2.9 wwf over 2" x 20 ga. galvanized (G60) composite metal deck. Total slab thickness = 5". Provide 5/8" dia puddle welds on 36/4 pattern w/ (3) #12 TEK screw sidelap fasteners per span
4. All steel beam reactions shall be designed for 10 kips (ASD) unless noted otherwise.
5. Refer to architectural for all dimensions, slopes, elevations, etc. not illustrated on this plan. Coordinate all final dimensions and elevations with architectural.



16" Jamb Reinforcing

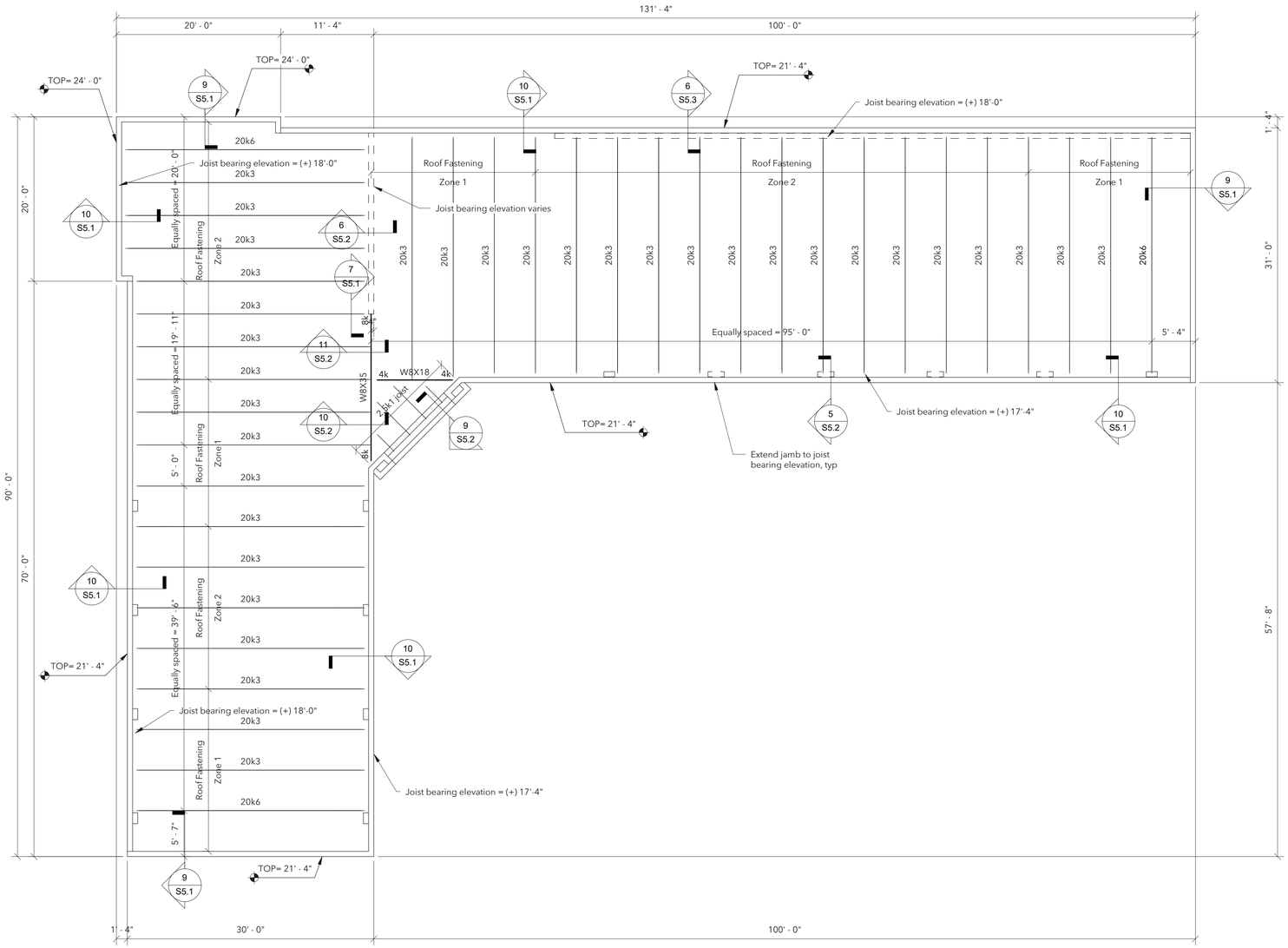


32" Jamb Reinforcing



40" Jamb Reinforcing

JOHN JONES, PE, SE
STRUCTURAL ENGINEER
125 18TH STREET NORTH
PELL CITY, ALABAMA
205-884-5334



ROOF FRAMING PLAN

1/8" = 1'-0"

Sheet Notes:

1. See S0.x Sheets for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. See plan for Joist Bearing Elevations.
4. Roof construction 1 1/2" x 22 ga. type B galvanized (G60) metal deck. See S0.3 sheets for attachment details. Paint bar joist gray.
5. Refer to architectural drawings for all dimensions, slopes, elevations, etc... not illustrated on this plan. Coordinate all final dimensions and elevations with architectural.

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ENGINEER
06.15.2026
17263
STATE OF MISSISSIPPI

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

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IFB-0	Issue for Bid	06.15.2026

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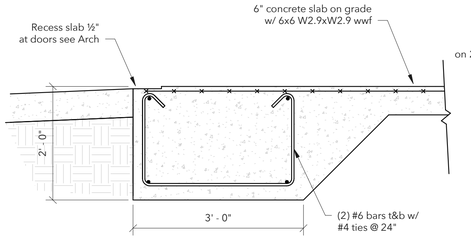
Roof Framing Plan

Project number	25046
Date	04.21.2026
Drawn by	jcj
Checked by	jd

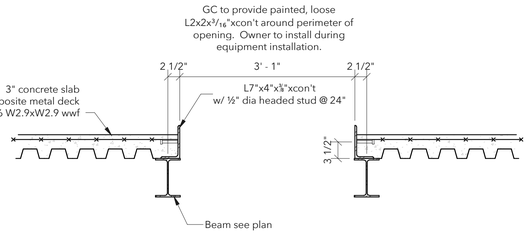
S3.1

Scale: As indicated

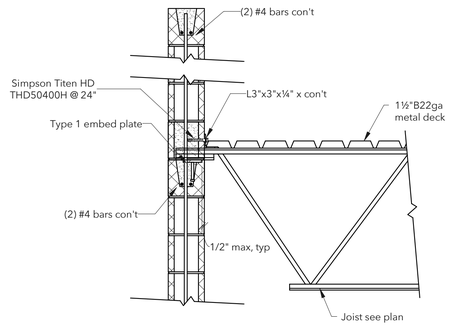
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PELL CITY, ALABAMA
205-884-5334



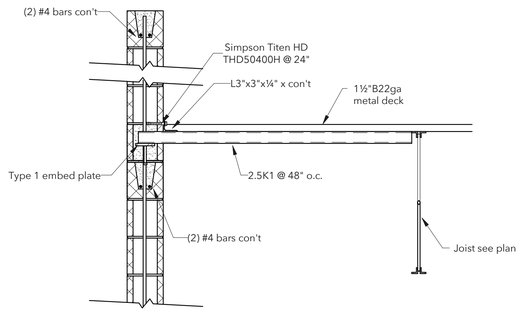
Section 12
3/4" = 1'-0"



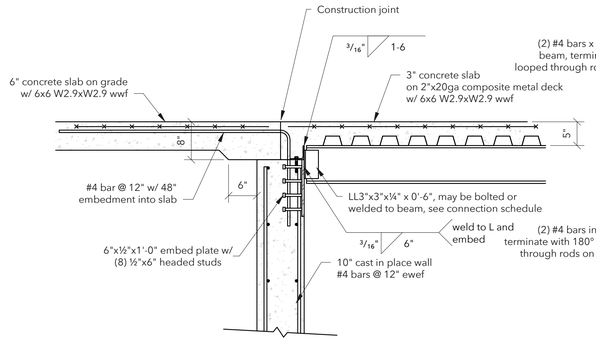
Section 11
3/4" = 1'-0"



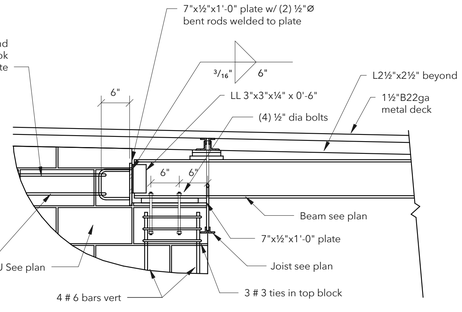
Section 10
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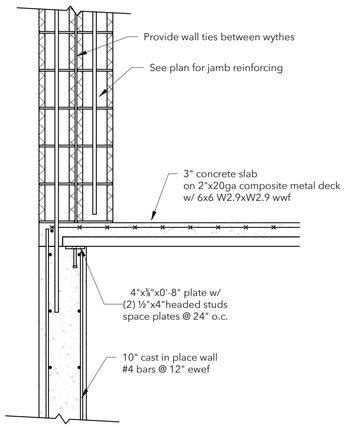
Section 9
3/4" = 1'-0"



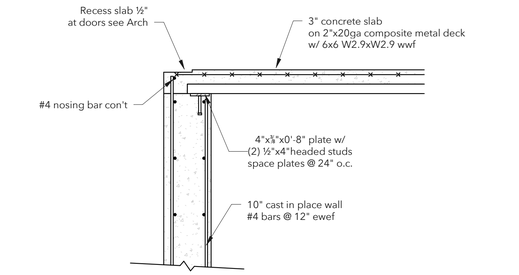
Section 8
3/4" = 1'-0"



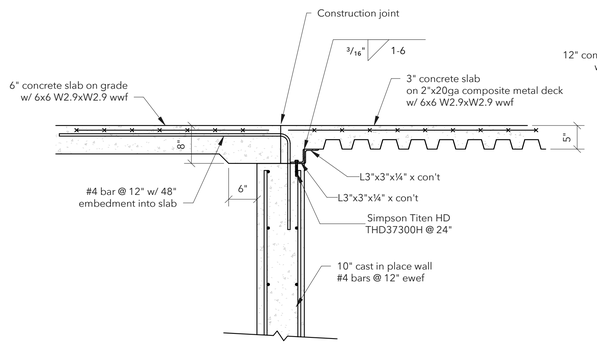
Section 7
3/4" = 1'-0"



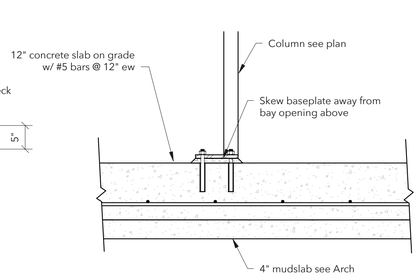
Section 6
3/4" = 1'-0"



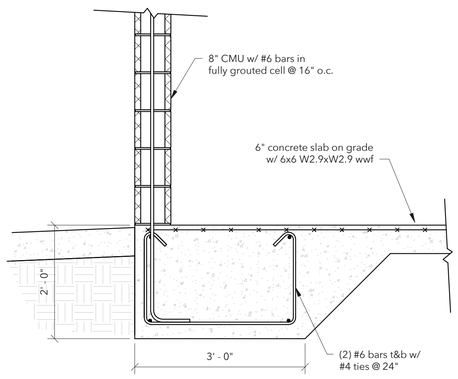
Section 5
3/4" = 1'-0"



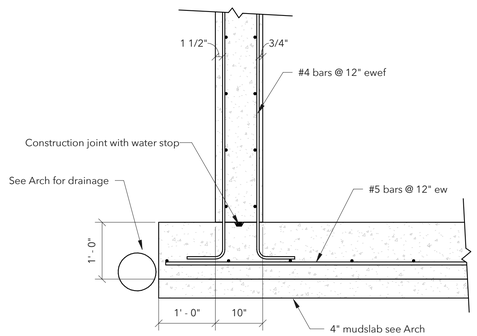
Section 4
3/4" = 1'-0"



Section 3
3/4" = 1'-0"



Section 2
3/4" = 1'-0"



Section 1
3/4" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
ENGINEER
06.15.2026
17263
STATE OF MISSISSIPPI

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issue for Permit	04.21.2026
IFB-0	Issue for Bid	06.15.2026

2026
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Sections and Details

Project number	25046
Date	04.21.2026
Drawn by	jcj
Checked by	jd

S5.1

Scale 3/4" = 1'-0"

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STRUCTURAL ENGINEER
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205-884-5334

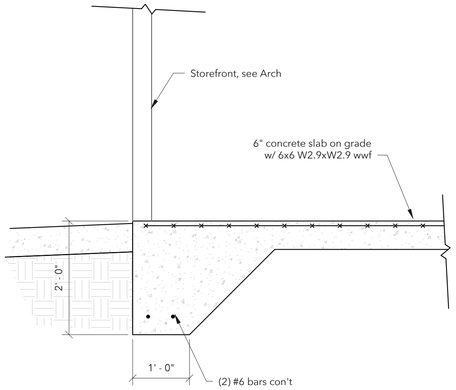
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ENGINEER
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STATE OF MISSISSIPPI

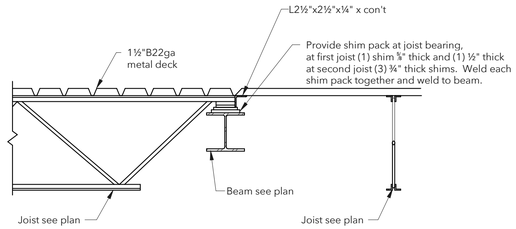
Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

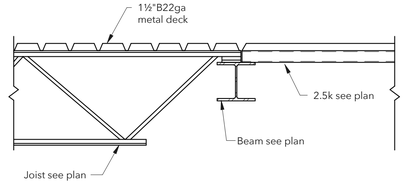
Ocean Springs, Mississippi



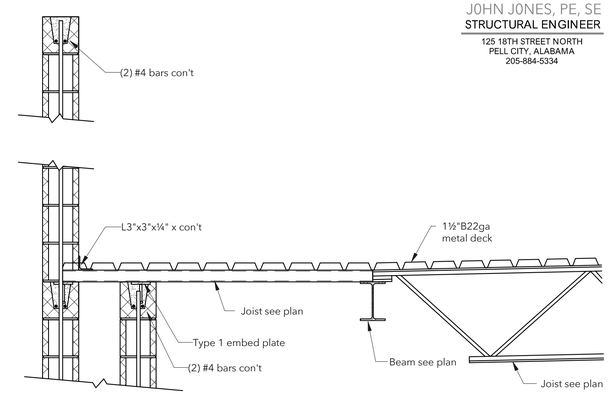
Section 12
3/4" = 1'-0"

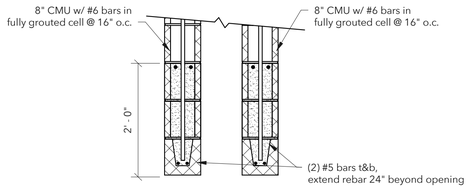


Section 11
3/4" = 1'-0"



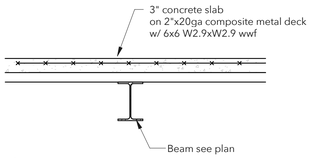
Section 10
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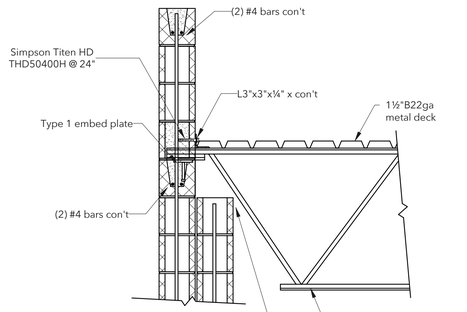
Section 9
3/4" = 1'-0"

Section 8
3/4" = 1'-0"

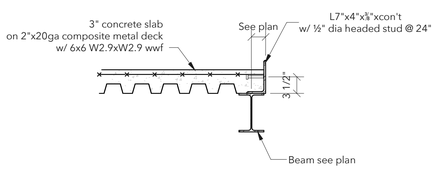


Section 7
3/4" = 1'-0"

Section 6
3/4" = 1'-0"



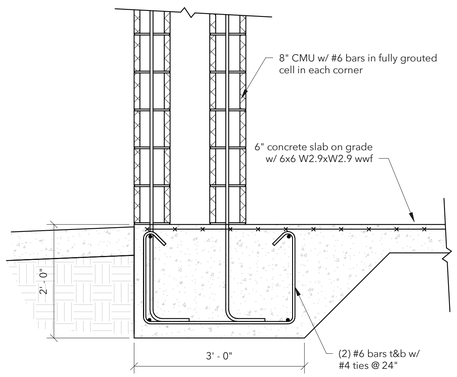
Section 5
3/4" = 1'-0"



Section 4
3/4" = 1'-0"

Section 3
3/4" = 1'-0"

Section 2
3/4" = 1'-0"



Section 1
3/4" = 1'-0"

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Sections and Details

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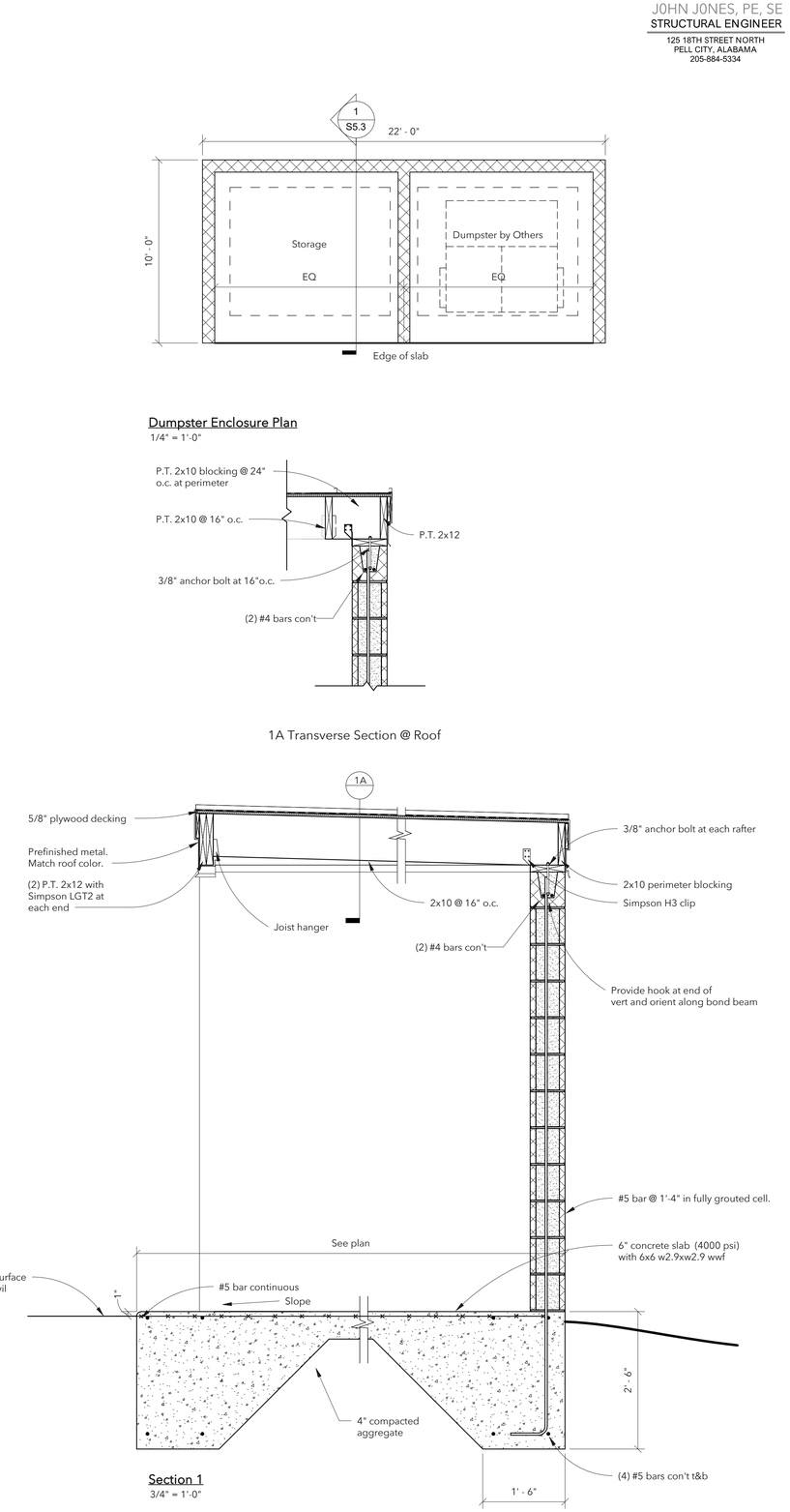
S5.2

Scale 3/4" = 1'-0"

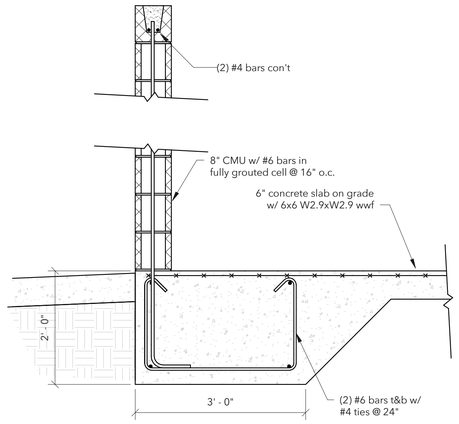
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PELL CITY, ALABAMA
205-884-5334

Dumpster Enclosure Plan
1/4" = 1'-0"

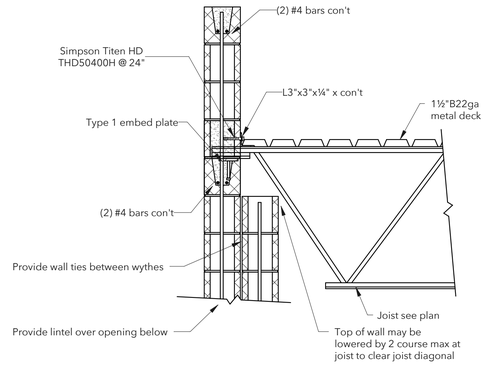
1A Transverse Section @ Roof



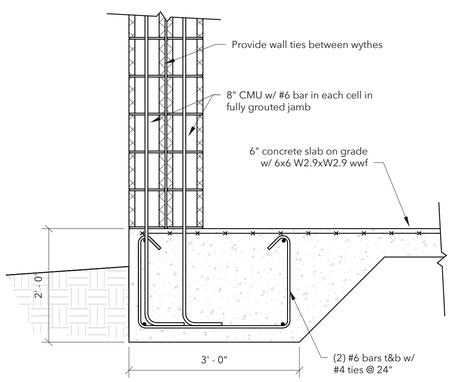
Section 1
3/4" = 1'-0"



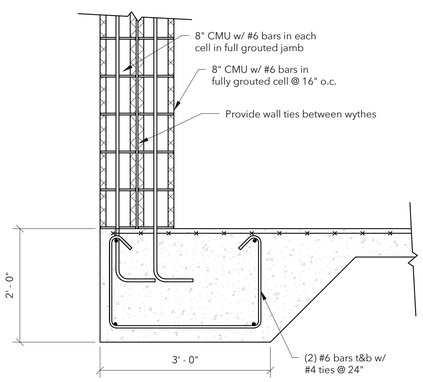
Section 7
3/4" = 1'-0"



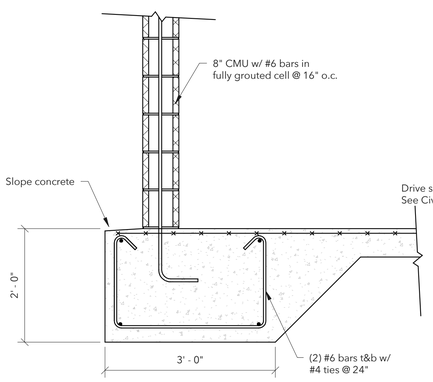
Section 6
3/4" = 1'-0"



Section 4
3/4" = 1'-0"



Section 3
3/4" = 1'-0"



Section 2
3/4" = 1'-0"

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S5.3

Scale: As indicated

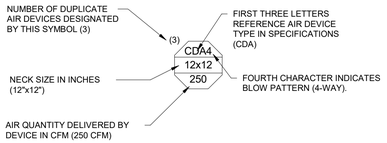
LEGEND

- DUCT SIZE, FIRST FIGURE IS SIDE SHOWN INSIDE CLEAR DIMENSION UNLESS NOTED OTHERWISE
- LOW PRESSURE, RECTANGULAR (GALVANIZED STEEL)
- LOW PRESSURE, RECTANGULAR (ALUMINUM STEEL)
- ROUND (GALVANIZED STEEL)
- MEDIUM PRESSURE, FLAT OVAL (GALVANIZED STEEL)
- FLEXIBLE DUCT
- DUCT RISE
- DUCT DROP
- EXISTING DUCTWORK TO REMAIN
- DUCT TRANSITION
- RECTANGULAR TO ROUND DUCT TRANSITION
- TURNING VANES
- FIRE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
- SMOKE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
- COMBINATION FIRE/SMOKE DAMPER, PROVIDE ACCESS DOOR
- MANUAL VOLUME DAMPER
- STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER
- STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER, WITH MANUAL VOLUME DAMPER
- CONICAL SPIN-IN FITTING WITH BUTTERFLY DAMPER
- GRILLE OR REGISTER, CEILING
- ACCESS DOOR
- CONDENSATE DRAIN PIPING
- AUXILIARY CONDENSATE DRAIN PIPING
- REFRIGERANT PIPING (2 LINES TOTAL)
- ELBOW, 90° (LONG RADIUS)
- TEE
- TEE, TURNED UP
- TEE TURNED DOWN
- ELBOW, TURNED DOWN
- ELBOW, TURNED UP
- WALL MOUNTED THERMOSTAT
- WALL MOUNTED HUMIDISTAT
- WALL MOUNTED TEMPERATURE SENSOR
- WALL MOUNTED CARBON DIOXIDE SENSOR
- WALL MOUNTED DEVICE W/ COVER GAURD
- SMOKE DETECTOR
- TIE NEW INTO EXISTING
- UNDERCUT DOOR 3/4 INCHES
- SUPPLY AIR FLOW
- RETURN OR EXHAUST AIR FLOW

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. ALL SYMBOLS WHICH APPEAR WITHIN THE LEGEND MAY NOT APPLY TO THIS PROJECT.

ABBREVIATIONS

AB.CL'G	ABOVE CEILING
ABV.	ABOVE
AC	ALTERNATING CURRENT
A/C	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALT.	ALTERNATE
AMP	AMPERE
AO	ANALOG OUTPUT
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
AVG	AVERAGE
B	BOILER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWP	CHILLED WATER PUMP
CLG	CEILING
CT	COOLING TOWER
CU	CONDENSING UNIT
CWP	CONDENSER WATER PUMP
DEFL	DEFLECTION
DET	DETAIL
DI	DIGITAL INPUT
DIA	DIAMETER
∅	DIAMETER
DO	DIGITAL OUTPUT
EDB	ENTERING DRY BULB
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST.	EXISTING
°F	DEGREES FAHRENHEIT
GFF	GAS FIRED FURNACE
GPM	GALLONS PER MINUTE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
HD.	HEAD
HP	HORSE POWER
HR	HOUR(S)
HT.	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER
IN.	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MAX	MAXIMUM
MBH.	1000 BTU PER HOUR
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN	MINIMUM
NO.	NUMBER
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
O.D.	OUTSIDE DIAMETER
OA	OUTSIDE AIR
⬭	OVAL DUCTWORK
ORIG.	ORIGINAL
PH.	PHASE
PIU	POWERED INDUCTION UNIT
PRESS	PRESSURE
RTN	RETURN AIR
RTU	ROOFTOP AIR HANDLING UNIT
SDC	STAND ALONE DIGITAL CONTROLLER
SENS.	SENSIBLE
SQ.	SQUARE
SPLY	SUPPLY
TEMP	TEMPERATURE
VAV	VARIABLE AIR VOLUME
W	WATT
W/	WITH
W.P.D.	WATER PRESSURE DROP



1 M0.01 AIR DEVICE LEGEND
NO SCALE

AIR HANDLING UNIT SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	CFM	OA CFM	E.S.P. (IN. W.C.)	FAN H.P.	FAN DRIVE	COOLING CAPACITY EDB (F°)	COOLING CAPACITY EWB (F°)	COOLING CAPACITY LDB (F°)	COOLING CAPACITY LWB (F°)	ELECTRIC HEAT TOTAL (KW) (208V)	ELECTRIC HEAT TOTAL (KW) (240V)	ELECTRIC HEAT STAGES	ELECTRICAL DISCONNECT	ELECTRICAL VOLTS/PH./HZ. 208/1/60 UNIT MCA	ELECTRICAL VOLTS/PH./HZ. 208/1/60 UNIT MOCP	ELECTRICAL VOLTS/PH./HZ. 240/1/60 UNIT MCA	ELECTRICAL VOLTS/PH./HZ. 240/1/60 UNIT MOCP	MOUNTING	WEIGHT (LBS.)	REMARKS
AHU-1	TRANE 5TEM6D04AV31	1,195	160	0.5	1/2	--	80	67	58.60	57.70	10.8	14.4	2	BY DIV. 26	73.0	80.0	83.0	90.0	VERTICAL	150	1), 2), 3), 4)

REMARKS:
1) PROVIDE UNIT WITH LABORSAVOR PLENUM BOX.
2) PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
3) PROVIDE WITH 1" THROW AWAY FILTERS.
4) ROUTE CONDENSATE TO FLOOR DRAIN IN MECHANICAL ROOM.

OUTDOOR HEAT PUMP SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	COOLING CAPACITY NOMINAL (TONS)	COOLING CAPACITY AMBIENT TEMP. (F)	HEATING CAPACITY MBH	HEATING CAPACITY AMBIENT TEMP. (F)	ELECTRICAL UNIT MCA	ELECTRICAL UNIT MOCP	ELECTRICAL DISCONNECT	ELECTRICAL VOLTS/PH./HZ.	MIN. SEER	MIN. HSPF	WEIGHT (LBS.)	REMARKS
OHP-1	TRANE 5TWR5036A1	AHU-1	3.0	95.0	31.8	47.0	19.0	30.0	BY DIV. 26	208/1/60	16.0	8.5	225	1), 2), 3)

REMARKS:
1) PROVIDE LONG LINE ACCESSORIES AS REQUIRED BY MANUFACTURER.
2) UNITS SHALL BE SIZED AT 95°F AMBIENT TEMPERATURE.
2) LOCATE UNIT ON HOUSEKEEPING PAD. ANCHOR UNIT TO CURB WITH EXPANSION BOLTS.

POWER VENTILATOR SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	CFM	E.S.P. (IN. W.C.)	RPM	MAX. SONES	ELECTRICAL DISCONNECT	ELECTRICAL MOTOR STARTER	ELECTRICAL WATTS	ELECTRICAL MOTOR VOLTS/PH./HZ.	LOCATION	TYPE	DRIVE	WGT (LBS.)	REMARKS
EF-1	COOK GC-146	70	0.35	849	1.5	BY DIV. 26	BY DIV. 23	32	115/1/60	CEILING	CENTRIFUGAL	DIRECT	15	1), 3), 5)
EF-2	COOK GC-146	70	0.35	849	1.5	BY DIV. 26	BY DIV. 23	32	115/1/60	CEILING	CENTRIFUGAL	DIRECT	15	1), 3), 5)
EF-3	COOK 150SQN17D	3000	0.25	1649	21.4	BY DIV. 26	BY DIV. 23	1 HP	115/1/60	INLINE	CENTRIFUGAL	DIRECT	120	2), 3), 6)
EF-4	COOK 16XP28D152	2100	0.25	1388	13.9	BY DIV. 26	BY DIV. 23	1/2 HP	115/1/60	WALL	PROPELLER	DIRECT	75	2), 4), 5)
EF-5	COOK 16XP28D152	2100	0.25	1388	13.9	BY DIV. 26	BY DIV. 23	1/2 HP	115/1/60	WALL	PROPELLER	DIRECT	75	2), 4), 5)

REMARKS:
1) PROVIDE OCCUPANCY SENSOR FOR FAN OPERATION IN EACH RESTROOM.
2) FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. INTERLOCK WITH LOCAL SWITCH. COORDINATE WITH ELECTRICAL.
3) PROVIDE WITH FAN SPEED CONTROLLER.
4) PROVIDE WITH FAN INLET GUARDS AND BELT TENSIONER.
5) PROVIDE WITH BACKDRAFT DAMPER.
6) PROVIDE FAN WITH EC VARIFLOW DRIVE PACKAGE.

GAS RADIANT HEATER SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	HEATING CAPACITY (MBH)	AMPS	ELECTRICAL DISCONNECT	ELECTRICAL VOLTS/PH./HZ.	WEIGHT (LBS)	MOUNTING HEIGHT	REMARKS
RH-1	RE-VERBER-RAY DR-50	50	0.1	BY DIV. 26	115/1/60	50	11' 9"	1), 2), 3), 4)
RH-2	RE-VERBER-RAY DR-50	50	0.1	BY DIV. 26	115/1/60	50	11' 9"	1), 2), 3), 4)
RH-3	RE-VERBER-RAY DR-50	50	0.1	BY DIV. 26	115/1/60	50	11' 9"	1), 2), 3), 4)
RH-4	RE-VERBER-RAY DR-50	50	0.1	BY DIV. 26	115/1/60	50	11' 9"	1), 2), 3), 4)
RH-5	RE-VERBER-RAY DR-50	50	0.1	BY DIV. 26	115/1/60	50	11' 9"	1), 2), 3), 4)

REMARKS:
1) MAINTAIN DISTANCES FROM COMBUSTIBLES PER MANUFACTURERS INSTALLATION DETAILS.
2) PROVIDE WITH 24V TRANSFORMER AND LOW VOLTAGE THERMOSTAT.
3) ANGLE UNITS AT 30 DEGREES FROM HORIZONTAL. SUSPEND UNITS FROM STRUCTURE WITH 3/8" THREADED RODS.
4) HEIGHT SHOWN MEASURED FROM BOTTOM OF HEATING RAY HEAD/TUBE.

OUTSIDE AIR CALCULATIONS

					MECHANICAL CODE OUTSIDE AIR REQUIREMENT									MAX OA REQUIRED			
		Supply Air (cfm)	Area (sq. ft)	Occupancy Classification	Max Number of Occupants/SF (per 1000 SF)	Number of Occupants	O.A. Area Air Rate (cfm / sq. ft)	O.A. People Air Rate (cfm/person)	O.A. Area Air Rate (cfm)	O.A. People Air Rate (cfm)	O.A. (cfm)	Zone Effectiveness	Corrected CFM		Primary O.A. Fraction	Ventilation Effectiveness	Remarks
Served By	Space Name	Vpz (Max)	Az		Rp		Ra	Pz			Vbz	Ez	Voz	Vot	Zp	Ev	
AHU-1	1 Service Writing	315	183	Lobbies	--	1	0.06	5	11	5	16	0.80	20	20	0.06	1	
	2 Waiting Room	225	199	Lobbies	--	15	0.06	5	12	75	87	0.80	109	109	0.48	0.667	
	5 Break Room	310	173	Office	35	1	0.06	5	10	5	15	0.80	19	19	0.06	1	
	9 Manager	200	104	Break Room	5	1	0.06	10	6	10	16	1.80	9	9	0.05	1	
															OA	Lowest Ev	
															156.90	1.00	

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FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issued for Bid	06/15/2026

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Mechanical Legend, Abbreviations and Schedules

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

M0.01

Scale 12" = 1'-0"

6/18/2026 2:42:29 PM

SECTION 15010 - MECHANICAL GENERAL

A. PROVIDE EQUIPMENT, LABOR, MATERIAL, ETC., REQUIRED TO MAKE A COMPLETE WORKING INSTALLATION.
B. INSTALL THE WORK IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND THE STANDARDS AND CODES (LATEST EDITION) THAT APPLY TO THIS WORK. IN THE EVENT OF A CONFLICT, INSTALL WORK IN ACCORDANCE WITH THE MOST STRINGENT CODE REQUIREMENTS DETERMINED BY THE ENGINEER.
C. OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS INCLUDING: BUILDING PERMITS, HEALTH DEPARTMENT PERMITS AND SEWER TAP PERMITS. DELIVER TO ENGINEER CERTIFICATES OF INSPECTION AND APPROVAL ISSUED BY AUTHORITIES.
D. ALL EQUIPMENT AND METHOD SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICES AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
E. DISCONNECT, REMOVE AND RE-INSTALL MECHANICAL SERVICES LOCATED ON OR CROSSING THROUGH CONTRACT LIMITS, ABOVE OR BELOW GRADE, OBSTRUCTING CONSTRUCTION OF PROJECT OR CONFLICTING WITH COMPLETED PROJECT OR ANY APPLICABLE CODES.
F. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WORK CALLED FOR BY ONE IS BINDING AS IF CALLED FOR BY BOTH.
G. DRAWINGS ARE DRAWN TO A SMALL SCALE AND ARE DIAGRAMMATIC ONLY. THE DRAWINGS INDICATE SIZE AND GENERAL ARRANGEMENT OF EQUIPMENT. DO NOT SCALE DRAWINGS FOR EXACT LOCATIONS. FIELD MEASUREMENTS TAKE PRECEDENCE.
H. PROVIDE NECESSARY OFFSETS, ELBOWS AND FITTINGS AS REQUIRED TO AVOID CONFLICT WITH EQUIPMENT OF OTHER DIVISIONS AND TO OBTAIN PROPER HEADROOM AND CLEAR PASSAGEWAYS. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
I. WORK UNDER THIS DIVISION SHALL BE FIRST CLASS WITH EMPHASIS ON NEATNESS AND WORKMANSHIP. INSTALL WORK USING COMPETENT MECHANICS, UNDER SUPERVISION OF FOREMAN, ALL DULY CERTIFIED BY LOCAL AUTHORITIES.
J. INSTALLATION SUBJECT TO ENGINEER'SOBSERVATION, FINAL APPROVAL, AND ACCEPTANCE. ENGINEER MAY REJECT UNSUITABLE WORK.
K. ALL MATERIALS SHALL BE NEW. ALL MATERIALS AND EQUIPMENT FOR WHICH A UL STANDARD, AN AGA APPROVAL, ANAWWA STANDARD, FM LISTING OR ASME REQUIREMENTS IS ESTABLISHED, SHALL BE SO APPROVED AND LABELED OR STAMPED.

L. THE DRAWINGS ARE BASED ON THE USE OF PRODUCTS SPECIFIED AND LISTED FIRST. IF ANY REVISION IN PIPING, CONDUIT WORK, FOUNDATIONS, ANCHOR BOLTS, CONNECTIONS, ETC., IS REQUIRED BY OTHER NAMED PRODUCTS OR APPROVED SUBSTITUTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE SUCH REVISIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
M. SUBMIT SIX (6) ORIGINAL COPIES OF COMPLETE SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT FURNISHED UNDER DIVISION 15 OF SPECIFICATIONS TO ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE DRAWINGS HAVE BEEN CHECKED BY HIM. DRAWING SUBMITTED WITHOUT THIS STAMP OF APPROVAL WILL NOT BE CONSIDERED AND WILL BE RETURNED FOR PROPER RESUBMISSION.
N. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS AND SIZES OF EQUIPMENT. INFORM ENGINEER IN WRITING OF EQUIPMENT DIFFERING FROM THAT SHOWN.
O. PROVIDE MAINTENANCE AND OPERATING MANUALS BOUND IN 8-1/2" X 11" HARDBACK, THREE-POST BINDERS. MANUALS SHALL CONTAIN WRITTEN INSTRUCTIONS FOR EACH SYSTEM, SHOP DRAWINGS, SCHEMATIC DRAWINGS, EQUIPMENT CATALOG CUTS, MANUFACTURER'S INSTRUCTIONS, MANUFACTURERS WARRANTIES, AND VALVE TAG LIST.
P. PROVIDE AS-BUILT PRINTS AT THE COMPLETION OF JOB. KEEP ONE SET OF PRINTS ON JOB AND RECORD DAY TO DAY CHANGES TO CONTRACT DRAWINGS WITH RED PENCIL. INDICATE ACTUAL LOCATION OF PIPING, DUCTWORK, VALVES, DAMPERS, AND EQUIPMENT. TURN OVER PRINTS TO ENGINEER AT FINAL OBSERVATION.
Q. FURNISH ENGINEER WRITTEN WARRANTY, STATING THAT IF WORKMANSHIP AND/OR MATERIALS EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN ONE (1) YEAR AFTER FINAL ACCEPTANCE, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED.

SECTION 15050 - BASIC MATERIALS AND METHODS

A. CONCRETE HOUSEKEEPING PADS.
1. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT, PIPE SUPPORT AND DUCT SUPPORTS AND WHERE INDICATED. CONCRETE SHALL BE 3000 PSI AT 28 DAYS MINIMUM.
2. PADS SHALL BE DOWELED TO FLOOR WITH NOT LESS THAN 4 NO. 4 BARS GROUTED IN PLACE. ANCHOR BOLTS FOR EQUIPMENT SHALL BE POURED INTEGRAL WITH THE PAD. PADS SHALL BE REINFORCED WITH AT LEAST ONE NO. 4 BAR (STIRRUPS). PADS SHALL HAVE CHAMFERED EDGES AND A BROOM FINISH.
3. HOUSEKEEPING PADS SHALL BE NOT LESS THAN 3-1/2 IN. THICK, SIZED AT LEAST 8 IN. LARGER THAN THE EQUIPMENT.
B. ACCESS PANELS:
1. ACCESS PANELS SHALL HAVE WELDED STEEL FRAME, ONE PIECE DOORS, AND SELF LATCHING DOOR LOCKS. LOCKS SHALL BE SCREW DRIVER OPERATED WITH CASE HARDENED STEEL CAM. PANELS SHALL BE MILCOR, CESCO, KARP OR EQUAL.
2. PROVIDE ACCESS PANELS IN WALLS AND CEILINGS AS NEEDED TO ALLOW ACCESS TO VALVES, EQUIPMENT, SHOCK ABSORBERS, TRAP PRIMERS, ETC. AND WHERE NOTED.
C. FIRESTOPPING AND SOUNDSTOPPING:
1. PENETRATIONS THROUGH FLOORS AND FIRE RESISTANT WALLS SHALL BE SEALED TO THE RATED FIRE RESISTANCE EQUAL TO THE WALL. INSTALLATION SHALL BE DONE BY A QUALIFIED INSTALLER, APPROVED BY THE MANUFACTURER.
2. IN AN EXISTING BUILDING ALL PENETRATIONS THROUGH FLOORS AND FIRE RESISTANT WALLS SHALL BE SEALED AT THE END OF EACH WORKING DAY. THESE CLOSURES SHALL HAVE AN EQUAL FIRE RESISTANCE RATING TO THE FLOOR OR WALL.
3. PROVIDE SOUND PROOFING THROUGH NON-RATED WALLS.
D. PIPING SEALS:
1. PROVIDE MODULAR, RESILIENT SEALS AROUND PIPES PENETRATING ALL EXTERIOR WALLS, AND FLOORS BELOW GRADE. PIPING SEALS SHALL BE THUNDERLINE CORP. "LINK SEAL" LS SERIES.
E. CUTTING AND PATCHING:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING. CUT WALLS, FLOORS, CEILINGS, PARTITIONS, ETC., REQUIRED FOR THE INSTALLATION OF THIS WORK IN A NEAT AND CAREFUL MANNER. CORE DRILL FOR PIPE SLEEVES AND OTHER OPENINGS THROUGH FLOORS AND WALLS. SAWCUT LARGER OPENINGS. CUTTING SHALL BE KEPT TO A MINIMUM.
2. REPLACE OR REPAIR DUCTWORK, CONDUIT, PIPING, ETC., THAT IS CUT. PATCH AROUND OPENING CUT BY THIS CONTRACTOR OR PROVIDED BY OTHERS FOR HIM. PATCHING SHALL BE DONE BY AN APPROVED QUALIFIED CONTRACTOR, BUT SHALL BE PAID FOR BY THIS CONTRACTOR. FINISHED PATCHING SHALL RETAIN FIRE AND SMOKE RATINGS OF THE ASSEMBLY AND SHALL MATCH SURROUNDING FINISH.
F. ANCHORS:
1. MOUNT ALL EQUIPMENT, BRACKETS, HANGERS, ANCHORS, ETC. TO SAFELY RESIST THE VIBRATION OR THRUST FORCES AND SUPPORT THE UNIT'S WEIGHT.
2. FLOOR MOUNTED ROTATING OR VIBRATING EQUIPMENT SHALL BE ANCHORED TO THE FLOOR USING GROUTED-IN-PLACE OR CAST-IN-PLACE ANCHOR BOLTS WITH THREE INCH HOOK AND SLEEVE. ANCHOR BOLTS SHALL BE OF THE SIZE RECOMMENDED BY THE MANUFACTURER.
3. FLOOR MOUNTED STATIC ITEMS, WALL AND CEILING MOUNTED EQUIPMENT BRACKET AND HANGERS SHALL BE INSTALLED USING DRILLED ANCHORS. ANCHORS SHALL BE PHILLIPS DRILL COMPANY "RED HEAD" OR MULTI-SET II. SIZE ANCHORS FOR FOUR TIMES THE APPLIED LOAD. BOLTS USED OUTDOORS OR IN A WET ENVIRONMENT SHALL BE HOT DIP GALVANIZED.
G. PIPE IDENTIFICATION:
1. IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI-A13.1. PIPE MARKERS SHALL BE SETON'S WEATHER-CODE OR EQUAL.
2. PROVIDE PIPE MARKERS AND DIRECTIONAL ARROWS ON PIPES AT BOTH SIDES OF PARTITIONS AND FLOORS SLABS, AT BRANCH LINE TAKE-OFFS, AT VALVES, AT INTERMEDIATE INTERVALS NOT IN EXCESS OF 20 FT. AND AT CONNECTIONS TO EQUIPMENT.
3. TAPE COLOR BAND IDENTIFYING MARKERS AND ARROWS ON EACH PIPE, BOTH INSULATED AND BARE PIPES. PIPE MARKERS AND ARROWS SHALL BE LOCATED WHERE READILY VISIBLE AND ON LOWER QUADRANTS OF OVERHEAD PIPES.
H. VALVE TAG AND CHART:
1. VALVE TAGS SHALL BE SETON M4506, BLACK FILLED LETTERS WITH BRASS JACK CHAIN. ONE VALVE NUMBER SHALL BE STAMPED ON EACH TAG. IDENTIFY EACH VALVE TAG FOR THE UTILITY IT SERVES, SUCH AS "CW" FOR COLD WATER, HW FOR HOT WATER, ETC. VALVE CHARTS SHALL BE SETON. ATTACH A NUMBERED VALVE TAG TO EACH VALVE.
2. PROVIDE A TYPE WRITTEN CHART IN FRAME UNDER GLASS COVER, GIVING THE FULL LIST OF ALL VALVES INSTALLED UNDER THIS CONTRACT. CHART SHALL LIST VALVE NUMBER, TYPE OF UTILITY, AND LOCATION. MOUNT CHART WHERE DIRECTED BY OWNER. PROVIDE ONE ADDITIONAL COPY TO OWNER.
I. EQUIPMENT IDENTIFICATION:
1. IDENTIFY EACH PIECE OF EQUIPMENT WITH A 1/8 INCH THICK ENGRAVED MELAMINE PLASTIC LAMINATE NAMEPLATE. LETTERS SHALL BE 1/2 INCH HIGH STANDARD STYLE. NAMES, ABBREVIATIONS, AND NUMBERING SHALL AGREE WITH THE CORRESPONDING EQUIPMENT DESIGNATIONS SHOWN ON THE DRAWINGS. USE BLACK LETTERS CUT IN A WHITE BACKGROUND FOR ALL EQUIPMENT ON STANDARD ELECTRICAL POWER
2. FASTEN NAMEPLATES TO EQUIPMENT IN A CONSPICUOUS LOCATION USING SELF-TAPPING STAINLESS STEEL SCREWS, EXCEPT USE CONTACT EPOXY ADHESIVE WHERE SCREWS CANNOT OR SHOULD NOT PENETRATE SUBSTRATE.
J. PIPE SLEEVES:
1. PROVIDE PIPE SLEEVES WHERE PIPES PASS THROUGH FLOORS AND WALLS ABOVE OR BELOW CEILINGS. PROVIDE PIPE SLEEVES IN NEW WALLS AND FLOORS AS THE WORK PROGRESSES. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELD SPLIT SLEEVES TOGETHER.
2. SIZE PIPE SLEEVES TO ALLOW CONTINUOUS INSULATION, BUT NOT LESS THAN TWO PIPE SIZES LARGER THAN PIPE. SLEEVES IN WALLS SHALL BE FLUSH WITH WALL, SLEEVES IN FLOORS SHALL EXTEND 3/4 INCHES ABOVE FLOOR AND BE FLUSH WITH STRUCTURE BELOW.
3. SLEEVES IN CONCRETE WALLS, FLOORS OR MASONRY SHALL BE SCH 40 STEEL PIPE, MACHINE CUT. SLEEVES IN GYPSUM BOARD OR PLASTER WALLS SHALL BE 14 GAUGE, ROLLED GALVANIZED SHEET METAL TACK WELDED ON THE LONGITUDINAL SEAM.
4. PROVIDE PLATES AROUND PIPES EXTENDING INTO EXPOSED AREAS WHERE THEY PASS THROUGH WALLS, FLOORS AND CEILINGS. SIZE PLATES TO COMPLETELY COVER PIPE SLEEVES. PLATES SHALL BE BEATON AND CADWELL, KEENEY OR GRINNELL, NICKEL PLATED STEEL, SPLIT PLATES WITH SET SCREW. CONCRETE FLOOR PLATE SHALL BE GRINNELL FIGURE 400.
K. FLASHING:
1. PROVIDE FLASHING AT PIPING AND DUCT PENETRATIONS THROUGH ROOF AND ROOF MOUNTED STRUCTURES FURNISHED UNDER THIS DIVISION. FLASH IN ACCORDANCE WITH ROOFING MANUFACTURERS DETAILS. FLASHING MATERIALS SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS SYSTEM.
2. PROVIDE FLASHING AT PIPES PASSING THROUGH FLOORS WITH WATERPROOF MEMBRANE. FLASHING SHALL BE IN ACCORDANCE WITH WATERPROOFING MANUFACTURER'S DETAILS.

SECTION 15260 - HVAC INSULATION

A. GENERAL:
1. ALL INSULATION, JACKETING, AND ADHESIVE SHALL HAVE COMPOSITE SURFACE BURNING CHARACTERISTIC RATING AS TESTED BY ASTM E 84, UL 723, OR NFPA 255 NOT EXCEEDING A FLAME SPREAD OF 25 OR SMOKE DEVELOPED OF 50.
2. SUBMITTALS SHALL USE PAGES FROM MIDWEST INSULATION CONTRACTORS ASSOCIATION - ACOMMERCIAL AND INDUSTRIAL INSULATION STANDARDS@ FOR DEFINING HOW INSULATION MATERIALS WILL BE APPLIED.
3. ALL PIPE OR DUCT INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OR FLOOR OPENINGS, OR SLEEVES; EXCEPT WHERE FIRESTOP OR FIRESAFING MATERIALS ARE REQUIRED.
4. INSULATE ITEMS MOUNTED IN DUCTWORK WITH THE SAME THICKNESS OF INSULATION AS SPECIFIED FOR DUCTWORK: INCLUDING AIR MEASURING STATIONS, SMOKE DAMPERS, AND AUTOMATIC DAMPERS.
5. REPAIR INSULATION DAMAGED BY WORK UNDER THIS CONTRACT TO MATCH EXISTING WORK OR REPLACE DAMAGED PORTION WITH INSULATION SPECIFIED FOR NEW WORK.

B. ELASTOMERIC CLOSED CELL INSULATION:
1. INSULATION SHALL BE RUBATEX OR ARMSTRONG. SECURE INSULATION WITH CONTACT ADHESIVE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. EXPOSED OR EXTERIOR INSTALLATIONS SHALL BE PAINTED WITH TWO COATS OF WATER BASE LATEX ENAMEL.
2. PROVIDE 1 IN. THICK INSULATION ON DX REFRIGERANT PIPING, COOLING COIL CONDENATE PIPING, CHILLED WATER RUN-OUTS TO TERMINAL DEVICES, COVERS AND CAPS FOR ALL VALVE STEMS AND OPERATORS, GAUGE COCKS, THERMOMETER WELLS AND OTHER APPURTENANCES SUBJECT TO SWEATING.

C. CONCEALED DUCTWORK:
1. DUCT WRAP SHALL BE 2 IN. THICK, 1.0 PCF WITH ALUMINUM OR FRK FACING, HAVING A MAXIMUM VAPOR TRANSMISSION OF .02 PERMS. MINIMUM INSTALLED "R" VALUE SHALL BE 5.6 WITH 25% COMPRESSION. INSULATION SHALL BE 250 DEG. F RATED AS MANUFACTURED BY OWENS CORNING, MANVILLE, KNAUF, OR CERTAINTEED.
2. APPLY JACKETED DUCTWRAP TO ALL CONCEALED DUCTWORK PROVIDING CONDITIONED AIR, OR OUTSIDE AIR. ONLY INSULATE RETURN DUCTWORK IN NON-CONDITIONED SPACES AND IN CEILING SPACES BELOW A ROOF. PULL INSULATION SNUG, BUT DO NOT COMPRESS INSULATION MORE THAN 1/4 INCH.
3. SECURE DUCTWRAP INSULATION TO DUCTWORK USING ADHESIVE. SECURE INSULATION ON BOTTOM ON SIDES OF HORIZONTAL DUCTWORK AND ALL SIDES OF VERTICAL DUCTWORK WITH INSULPINS WELDED TO DUCT ON 12 TO 18 INCH CENTERS AND WITH CLIPS SLIPPED OVER THE PINS. APPLY CLIPS WITHOUT COMPRESSING INSULATION. MAKE JOINTS BY LAPPING THE FACING A MINIMUM OF 2 INCH AND STAPLING WITH OUTWARD CLINCH STAPLES ON 4 INCH CENTERS CP-30 LOW CDOR AT ALL STAPLES, CLIP LOCATIONS AND OTHER PENETRATIONS. SEAL JOINTS WITH 3 INCH WIDE FSK TAPE.
4. FOR DUCTWORK INSIDE THERMAL ENVELOPE, INSULATION SHALL BE 2 IN. THICK. FOR DUCTWORK OUTSIDE THE THERMAL ENVELOPE, ALL DUCTWORK EXCEPT EXHAUST SHALL BE 4 IN. THICK (2 LAYERS).

D. EXPOSED DUCTWORK:
1. INSULATION BOARD SHALL BE 2 IN. THICK 3 PCF WITH FRK FACING. MINIMUM INSTALLED "R" VALUE 6. INSULATION SHALL BE 250 DEG. F RATED AS MANUFACTURED BY OWENS CORNING, MANVILLE, KNAUF, OR CERTAINTEED.
2. APPLY 2 IN. THICK INSULATION BOARD WITH FRK FACING TO ALL EXPOSED DUCTWORK PROVIDING CONDITIONED AIR, OR OUTSIDE AIR. INSULATE RETURN DUCTWORK IN NON-CONDITIONED SPACES.
3. SECURE INSULATION WITH INSULPINS (ALL SURFACES) WELDED TO DUCT ON 12 TO 18 IN. CENTERS AND WITH CLIPS SLIPPED OVER PINS. SEAMS AND JOINTS SHALL BE VAPOR SEALED WITH 3 IN. WIDE FSK TAPE. CORNERS AND EDGES OF DUCTWORK SHALL BE REINFORCED WITH ROLL ON CORNER BEAD. SEAL ALL BREAK AND PUNCTURES WITH VAPOR BARRIER SEALANT AND FSK TAPE.

E. PIPING FINISHES;
1. METAL JACKETING SHALL BE, SMOOTH .016 IN. THICK, TYPE T 3003 ALUMINUM WITH LAMINATED MOISTURE BARRIER. JACKETING SHALL BE CHILDERS, ALUMINUM ROLL JACKETING WITH POLYKRAFT MOISTURE BARRIER. COVER THE FOLLOWING INSULATED SYSTEMS WITH METAL JACKETING: PIPING INSTALLED OUTDOORS. METAL FITTING COVERS SHALL BE TWO PIECE ALUMINUM. COVERS SHALL BE ELL-JAC.
2. CONCEALED PIPING FINISH COVERING SHALL BE THE ALL SERVICE JACKET. FITTINGS SHALL BE COVERED BY WRAPPING THE FITTING WITH FIBER REINFORCED TAPE, WITH A 5 PERCENT OVERLAP. FITTING COVERS SHALL BE ONE PIECE 20 MIL PVC. COVERS SHALL BE CEEL-TITE 550 PVC-UVR BY CEEL-TITE OR EQUALS.

A. DUCTWORK FINISHES:
INSULATED DUCTWORK INSTALLED OUTDOORS, INSULATED DUCTWORK WITHIN 8 FT. OF THE FINISHED FLOOR IN A MECHANICAL ROOM SHALL BE COVERED WITH 30 GAUGE GALVANIZED STEEL. COVERING SHALL BE HEMMED, AND FLANGED. SECURE WITH SELF TAPPING SCREWS ON EIGHT INCH CENTERS. DO NOT PUNCTURE VAPOR BARRIER

SECTION 15535 - REFRIGERANT PIPING SYSTEMS

A. REFRIGERANT PIPING SHALL BE TYPE L, HARD DRAWN COPPER TUBING CONFORMING TO ASTM SPECIFICATION B-280, CLEANED AND CAPPED AND MARKED "ACR". FITTINGS FOR REFRIGERANT LINES SHALL BE AS WROUGHT COPPER OR FORGED BRASS CONFORMING TO ANSI/ASME STANDARD B16.22. JOINTS IN REFRIGERANT LINES SHALL BE BRAZED IN ACCORDANCE WITH ANSI B9.1. KEEP REFRIGERATION PIPING SEALED UNTIL IT IS USED. CAP OPEN ENDS OF INSTALLED PIPING UNTIL READY FOR FINAL CONNECTIONS.
B. THE REFRIGERATION SYSTEM PIPING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SAFETY CODE FOR MECHANICAL REFRIGERATION ANSI/ASHRAE 15-92 AND THE REFRIGERATION PIPING CODE ANSI/ASME B31.5. THE REFRIGERANT TUBE SIZES, AND INSTALLATION OF TUBING SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
C. REFRIGERANT SUCTION LINE SIZE SHALL LIMIT THE TEMPERATURE RISE TO TWO DEGREES F AT FULL LOAD AND HOLD THE REFRIGERANT GAS VELOCITY TO NOT LESS THAN 500 FT. PER MIN. (FPM) IN THE HORIZONTAL NOR LESS THAN 1000 FPM IN THE VERTICAL AT MINIMUM LOAD. REFRIGERANT LIQUID LINE SIZE SHALL LIMIT THE PRESSURE DROP BETWEEN 4 AND 6 PSI AT FULL LOAD.
D. PITCH HOT GAS LINES AND SUCTION LINES APPROXIMATELY 1/8 INCH PER 10 FT. HOT GAS LINES AND SUCTION LINES EXCEEDING 30 FT. VERTICAL LIFT SHALL BE TRAPPED EVERY 20 FT. VERTICAL REFRIGERANT LINES SHALL BE RUN PLUMB, HORIZONTAL LINES SHALL BE RUN PARALLEL WITH BUILDING WALLS. REFRIGERANT LINES SHALL NOT CONTACT BUILDING STRUCTURE. ISOLATE PIPING WITH RESILIENT LINER IN PIPE SUPPORT OR ELASTOMERIC INSULATION.
E. TEST FOR LEAKS WITH AN ELECTRONIC LEAK DETECTOR. REPAIR LEAKS, REFILL, REPRESSURIZE, AND RETEST. FOLLOW STANDARD CHARGING AND DEHYDRATION PROCEDURES. CHARGE THROUGH THE SYSTEM FILTER-DRIER. CHANGE FILTER DRIERS AFTER 40 HOURS OF OPERATION.
F. PROVIDE A LINE SIZE FILTER-DRIER IN EACH LIQUID REFRIGERANT LINE BETWEEN THE CONDENSER AND THE EXPANSION VALVE. FILTER-DRIER SHALL BE A HENRY VALVE CO., SPORLAN OR ALCO
G. SERVICE VALVES SHALL BE BACK SEATING TYPE, STEEL OR IRON BODY. PROVIDE SERVICE VALVES AT CONDENSING UNIT. SERVICE VALVES SHALL BE LINES SIZE. VALVES SHALL BE HENRY VALVE CO., COMPRESSOR VALVES, SPORLAN OR ALCO.
H. PROVIDE ISOLATION VALVES AROUND THE FILTER-DRIER TO PERMIT SERVICING THE DRIER WITHOUT LOSS OF REFRIGERANT. ISOLATION VALVES SHALL BE HENRY VALVE CO., 900 SERIES BALL VALVES. SPORLAN AND ALCO ARE APPROVED EQUAL.
I. CHARGING VALVE SHALL BE INSTALLED IN EACH LIQUID REFRIGERANT LINE BETWEEN THE CONDENSER AND THE FILTER DRIER. CHARGING VALVE SHALL BE A HENRY VALVE CO. TYPE 927 OR APPROVED EQUAL. SPORLAN AND ALCO ARE APPROVED EQUAL.

J. SIGHT GLASS SHALL BE INSTALLED IN EACH LIQUID REFRIGERANT LINE AT THE EVAPORATOR COIL. SIGHT GLASS SHALL BE HENRY VALVE CO. MI 31 SERIES DOUBLE PORT STYLE WITH EXTENDED ENDS FOR SOLDERING FOR LINES 5/8 INCH OD OR LARGER. USE MI 30 SERIES SINGLE PORT SOLDERING FOR LINES 5/8 INCH OD OR LARGER. USE MI 30 SERIES SINGLE PORT FOR LINES 1/2 INCH OD AND SMALLER. SPORLAN AND ALCO ARE APPROVED EQUAL.
K. PROVIDE BALANCED EXTERNALLY EQUALIZED THERMOSTATIC EXPANSION VALVE. DISTRIBUTORS SHALL BE MATCHED WITH THERMOSTATIC EXPANSION VALVES AND DIRECT EXPANSION COIL FOR PROPER PERFORMANCE. THERMOSTATIC EXPANSION VALVE (TXV) SHALL BE BALANCED EXTERNALLY EQUALIZED TYPE. DISTRIBUTIONS SHALL BE MATCHED WITH THERMOSTATIC EXPANSION VALVES AND DIRECT EXPANSION COIL FOR PROPER PERFORMANCE. DISTRIBUTORS SHALL BE ALCO OR APPROVED EQUAL. LOCATE BULB IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. CONNECT THE EQUALIZING LINE TO THE TXV DOWN STREAM OF THE BULB. PROVIDE TRAPPED DOUBLE SUCTION RISERS ON SYSTEMS WITH UNLOADING CAPABILITY, WHEN REQUIRED FOR PROPER OIL RETURN.
L. PROVIDE FLEXIBLE CONNECTORS ON LIQUID LINE, AND SUCTION LINE AT THE CONDENSING UNIT. FLEXIBLE CONNECTORS SHALL BE BRAIDED BRONZE COVERING ON A BRONZE HOSE. END CONNECTORS SHALL BE FEMALE COPPER TUBE TYPE. UNITS SHALL BE RATED NOT LESS THAN 270 PSI AT 250 DEGREES F. UNITS SHALL BE SOUTHEASTERN HOSE, INC., SUPERIOR OR ANACONDA.

SECTION 15630 – GAS FIRED RADIANT HEATERS

A. HIGH-INTENSITY INFRARED HEATER (GAS-FIRED)
1. GAS-FIRED HIGH-INTENSITY INFRARED HEATERS SHALL COMPLY WITH ANSI Z83.19, SECTION 2.10 RADIANT COEFFICIENT, WITHOUT THE USE OF A SECONDARY RE-RADIATING SURFACE OF EITHER RODS OR SCREEN. THE CERAMIC RADIANT SURFACE SHALL BE HORIZONTAL WHEN HEATER IS INSTALLED AT 0 DEGREES. HEATERS SHALL BE CAPABLE OF ANGLE MOUNTING FROM 5 TO 30 DEGREES, WITHOUT THE USE OF AN ADDITIONAL REFLECTOR. HEATERS SHALL BE FULLY TESTED AND READY TO INSTALL. PIPE AND WIRE FOR OPERATION ON NATURAL OR LP/PROPANE GAS. HEATERS SHALL BE DESIGNED TO SATISFACTORILY OPERATE AT A MINIMUM SUPPLY
2. INLET GAS PRESSURE OF 7 INCHES WATER COLUMN (W.C.) WHEN SPECIFIED FOR NATURAL GAS OR 11 INCHES W.C. WHEN SPECIFIED FOR LP/PROPANE GAS AND AT A MAXIMUM SUPPLY INLET GAS PRESSURE OF 14 INCHES W.C.F. HEATERS SHALL BE DESIGNED TO OPERATE WITHOUT ADJUSTMENTS WHEN BURNING NATURAL GAS HAVING A HEAT VALUE OF 1000 BTU PER CUBIC FOOT WITH A SPECIFIC GRAVITY OF .65.
3. HEATERS SHALL BE EQUIPPED WITH ONE OF THE FOLLOWING CONTROLS: 1. SINGLE-STAGE, 120 VAC DIRECT SPARK IGNITION CONTROL HAVING: 100% SAFETY SHUT OFF WITH FLAME MONITORING AND 10.8 VA MAXIMUM POWER CONSUMPTION. CONTROL SHALL OPERATE WITH NO EXTERNAL ELECTRICAL POWER, BUT INSTEAD USE MILLIVOLTAGE GENERATED BY THE PILOT FLAME. THE HEATER'S CONTROLS SHALL BE EASILY ACCESSIBLE.THE DIRECT SPARK IGNITOR OR MANUAL PILOT SHALL BE DURABLE TO RESIST BREAKAGE. THE HEATER IS FITTED WITH A GAS ORIFICE FOR EACH BURNER FOR PROPER AIR TO GAS MIXTURE FOR SEA LEVEL. HEATERS CAN BE ORDERED OR CONVERTED FOR USE AT HIGH ALTITUDES, OR WITH EITHER LP/PROPANE OR NATURAL GAS.
5. CONSTRUCTION: THE HEATER SHALL BE OF MODULAR DESIGN EMPLOYING MULTIPLE BURNERS TO ACHIEVE THE SPECIFIED INPUT. THE BURNER(S) SHALL INCLUDE A CERAMIC COMBUSTION SURFACE, A PLENUM CHAMBER AND A VENTURI MIXER AND SHALL BE REMOVABLE WITH A SINGLE SCREWFOR CLEANING OR REPLACEMENT WITHOUT DISCONNECTING ANY GAS, ELECTRICAL OR HANGING DEVICE. THE CERAMIC COMBUSTION SURFACE SHALL BE CAPABLE OF REACHING TEMPERATURES UP TO 1850 DEGREES F (AN INCANDESCENT APPEARANCE) AND WITHSTAND THERMAL SHOCK WHEN WATER QUENCHED. THE COMBUSTION SURFACE SHALL BE A CORDIERITE-BASED GROOVED CERAMIC OF AN EXCLUSIVE PERMEABLE DESIGN WHEREBY ALTERNATE ROWS OF 230 PERFORATIONS PER SQUARE INCH TERMINATE AT THE BOTTOM OF SAID GROOVES AND THE REMAINING ONE HALF OF THE FLAME BELOW THE TOP SURFACE OF THE CERAMIC AND CREATING A MORE INTIMATE CONTACT BETWEEN FLAME AND SURFACE. THE BURNER'S PLENUM CHAMBER SHALL BE OF 20 GA. (.035") CORROSION-FREE ALUMINIZED STEEL, ONE-PIECE FABRICATION AND SEAMLESS NO-WELD CONSTRUCTION. THE PLENUM CHAMBER SHALL UTILIZE A ONE-PIECE STAINLESS STEEL RETAINER TO HOLD THE CERAMIC SURFACE IN PLACE AROUND ITS ENTIRE PERIMETER AND A 14 GA. (.083") ALUMINIZED STEEL BACK BRACKET FOR HOLDING THE BURNER ASSEMBLY IN PLACE TO ACHIEVE PROPER ALIGNMENT OF THE SURFACE, VENTURI AND ORIFICE. THE VENTURI SHALL BE MADE OF ALUMINIZED STEEL. F. THE HEATER'S MAIN FRAME SHALL BE 16 GA. (.065") CORROSION-FREE ALUMINIZED STEEL AND OF NO-WELD CONSTRUCTION. THE MAIN FRAME SHALL HAVE A DOUBLE TURNED UPPER EDGE AND TWO (2) CORNER ASSEMBLY BRACKETS FOR RIGIDITY. THE SIDE FRAMES SHALL HAVE FOUR (4) 3/8" DIAMETER HOLES FOR EASY MOUNTING WITH S-HOOKS AND CHAIN. REFLECTORS SHALL BE OF 21 GA. (.032") HIGHLY POLISHED MIRROR BRITE ALUMINUM WITH A REFLECTIVITY OF NOT LESS THAN 98%. STANDARD REFLECTOR DESIGN (SHAPE) SHALL HAVE .352 SQUARE FEET OF REFLECTIVE AREA PER LINEAR FOOT, WITH A DOUBLE TURNED EDGE FOR RIGIDITY AND BE MOUNTED TO THE HEATER AT THE FACTORY.
6. UNITS SHALL BE DETROIT RADIANT/REVERBERRAY,

B. TUBULAR INFRARED HEATERS
1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING.
2. DESCRIPTION: FACTORY ASSEMBLED, PIPED, AND WIRED, AND COMPLYING WITH ANSI Z83.20/CSA 2.34.
3. FUEL TYPE: DESIGN BURNER FOR NATURAL GAS HAVING CHARACTERISTICS SAME AS THOSE OF GAS AVAILABLE AT PROJECT SITE.
4. COMBUSTION TUBING: 4-INCH- DIAMETER ALUMINIZED STEEL WITH HIGH-EMISSIVITY, HIGH-TEMPERATURE, CORROSION-RESISTANT EXTERNAL FINISH.
5. TUBING CONNECTIONS: STAINLESS-STEEL COUPLINGS OR FLARED JOINTS WITH STAINLESS-STEEL DRAW BOLTS.
6. REFLECTOR: POLISHED ALUMINUM, 97 PERCENT MINIMUM REFLECTIVITY, WITH END CAPS. SHAPE TO CONTROL RADIATION FROM TUBING FOR UNIFORM INTENSITY AT FLOOR LEVEL WITH 100 PERCENT CUTOFF ABOVE CENTERLINE OF TUBING. PROVIDE FOR ROTATING REFLECTOR ON HEATER AROUND A HORIZONTAL AXIS FOR MINIMUM 30-DEGREE TILT FROM VERTICAL.
7. REFLECTOR EXTENSION SHIELDS: SAME MATERIAL AS REFLECTORS, ARRANGED FOR FIXED CONNECTION TO LOWER REFLECTOR LIP AND RIGID SUPPORT TO PROVIDE 100 PERCENT CUTOFF OF DIRECT RADIATION FROM TUBING AT ANGLES GREATER THAN 30 FROM VERTICAL.
8. INCLUDE HANGER KIT AND BURNER SAFETY CONTROLS:
9. GAS CONTROL VALVE: SINGLE-STAGE, REGULATED REDUNDANT 24-V AC GAS VALVE CONTAINING PILOT SOLENOID VALVE, ELECTRIC GAS VAL

SECTION 15870 - POWER VENTILATORS

A. POWER VENTILATORS WHICH ARE SCHEDULED OR REFERRED TO BY MODEL NUMBER OR CATALOGUE NUMBER ARE INTENDED TO INCLUDE ALL MATERIALS COVERED BY SUCH NUMBER. ANY REQUIRED ACCESSORIES FOR THE INSTALLATION OF THE FAN ARE TO BE BY THE SAME MANUFACTURER UNLESS OTHERWISE NOTED.

B. ALL WIRING AND ELECTRICAL COMPONENTS SHALL COMPLY WITH THE NATIONAL ELECTRIC CODES (NEC). ALL MATERIALS SHALL BE UL LISTED. FANS SHALL BE UL 705. FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE. FAN ASSEMBLY SHALL BEAR AN ENGRAVED ALUMINUM NAMEPLATE. FANS WHEELS SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-96.

C. EACH UNIT SHALL HAVE A BIRDSCREEN CONSTRUCTED OF GALVANIZED WIRE MESH WITH 2 IN. OPENINGS MOUNTED VERTICALLY IN THE UNIT DISCHARGE. THE BIRDSCREEN SHALL PRODUCE MINIMAL EFFECT ON AIR AND SOUND PERFORMANCE.

D. INSTALL FAN IN ACCORDANCE WITH MANUFACTURER=S INSTALLATION INSTRUCTIONS. INSTALL FANS WITH CLEARANCES FOR SERVICE AND MAINTENANCE. MAKE FINAL DUCT CONNECTIONS TO FANS WITH FLEXIBLE CONNECTORS.

E. BACK DRAFT DAMPER SHALL BE 6063T5 EXTRUDED ALUMINUM FRAME, .025 IN THICK FORMED ALUMINUM BLADES, EXTRUDED VINYL EDGE SEALS, SYNTHETIC BEARINGS, MILL FINISH.

F. COOK IS BASIS OF DESIGN. APPROVED MANUFACTUERS ARE GREENHECK, PENN AND ACME.

G. INLINE CABINET EXHAUST FAN - DIRECT DRIVE:
1. GN 100 SERIES: THE FAN WHEEL HOUSING AND INTEGRAL OUTLET DUCT SHALL BE INJECTION MOLDED FROM A SPECIALLY ENGINEERED RESIN EXCEEDING UL REQUIREMENTS FOR SMOKE AND HEAT GENERATIVITY. THE OUTLET DUCT SHALL HAVE PROVISION FOR AN ALUMINUM BACKDRAFT DAMPER WITH CONTINUOUS ALUMINUM HINGE ROD. THE INLET BOX SHALL BE MINIMUM 22 GAUGE GALVANIZED STEEL. MOTOR SHALL BE ISOLATION MOUNTED TO A ONE PIECE GALVANIZED STAMPED STEEL INTEGRAL MOTOR MOUNT/INLET. A FIELD WIRING COMPARTMENT WITH RECEPTACLE SHALL BE STANDARD. WHEEL SHALL BE CENTRIFUGAL FORWARD CURVED TYPE, INJECTION MOLDED OF POLYPROPYLENE RESIN.
2. GN 200-900 SERIES: THE FAN HOUSING SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL AND ACOUSTICALLY INSULATED. BLOWER AND MOTOR ASSEMBLY SHALL BE MOUNTED TO A MINIMUM 14 GAUGE REINFORCING CHANNEL AND SHALL BE EASILY REMOVABLE FROM THE HOUSING. MOTOR SHALL BE MOUNTED ON RUBBER-IN-SHEAR VIBRATION ISOLATORS. UNIT SHALL BE SUPPLIED WITH INTEGRAL WIRING BOX AND RECEPTACLE. DISCHARGE POSITION SHALL BE CONVERTIBLE FROM RIGHT ANGLE TO STRAIGHT THROUGH BY MOVING INTERCHANGEABLE PANELS. THE OUTLET DUCT COLLAR SHALL INCLUDE A REINFORCED ALUMINUM DAMPER WITH CONTINUOUS ALUMINUM HINGE ROD AND BRASS BUSHINGS. WHEEL SHALL BE CENTRIFUGAL FORWARD CURVED TYPE, CONSTRUCTED OF GALVANIZED STEEL.
3. MOTOR SHALL BE OPEN DRIP PROOF TYPE WITH PERMANENTLY LUBRICATED SEALED BEARINGS AND INCLUDE IMPEDANCE OR THERMAL OVERLOAD PROTECTION AND DISCONNECT PLUG. MOTOR SHALL BE FURNISHED AT THE SPECIFIED VOLTAGE AND PHASE.
4. FAN SHALL BE MODEL GN AS MANUFACTURED BY LOREN COOK COMPANY. GREENHECK, ACME AND PENN VENTILATOR ARE APPROVED EQUAL.

H. WALL MOUNTED PROPOLLER FAN
1. THE FAN SHALL BE OF BOLTED AND WELDED CONSTRUCTION UTILIZING CORROSION RESISTANT FASTENERS. THE MOTOR, BEARINGS AND DRIVES SHALL BE MOUNTED ON A TUBULAR STEEL POWER ASSEMBLY. THE POWER ASSEMBLY SHALL BE BOLTED TO A MINIMUM 14 GAUGE WALL PANEL WITH CONTINUOUSLY WELDED CORNERS AND AN INTEGRAL VENTURI. FAN SHALL BE ENCLOSED IN MINIMUM 18 GAUGE GALVANIZED STEEL WALL HOUSING WITH FACTORY INSTALLED SHUTTER AND INLET GUARD. ALL NON-GALVANIZED STEEL FAN COMPONENTS SHALL BE LORENIZEDTM WITH AN ELECTROSTATICALLY APPLIED, BAKED POLYESTER POWDER COATING. EACH COMPONENT SHALL BE SUBJECT TO A FIVE STAGE ENVIRONMENTALLY FRIENDLY WASH SYSTEM, FOLLOWED BY A MINIMUM 2 MIL THICK BAKED POWDER FINISH. PAINT MUST EXCEED 1,000 HOUR SALT SPRAY UNDER ASTM B117 TEST METHOD. PROPELLER: PROPELLER SHALL BE A HIGH-EFFICIENCY FABRICATED STEEL DESIGN WITH BLADES SECURELY FASTENED TO A MINIMUM 7 GAUGE HUB. THE HUB SHALL BE KEYED AND LOCKED TO THE FAN SHAFT UTILIZING TWO SETSCREWS.
2. MOTOR SHALL BE NEMA DESIGN B WITH CLASS B INSULATION RATED FOR CONTINUOUS DUTY AND FURNISHED AT THE SPECIFIED VOLTAGE, PHASE AND ENCLOSURE. BEARINGS SHALL BE DESIGNED AND TESTED SPECIFICALLY FOR USE IN AIR HANDLING APPLICATIONS. CONSTRUCTION SHALL BE HEAVY DUTY REGREASABLE BALL TYPE IN A CAST IRON PILLOW BLOCK HOUSING SELECTED FOR A MINIMUM L50 LIFE IN EXCESS OF 200,000 HOURS AT MAXIMUM CATALOGED OPERATING SPEED.
3. BELTS AND DRIVES: BELTS SHALL BE OIL AND HEAT RESISTANT, STATIC CONDUCTING. DRIVES SHALL BE PRECISION MACHINED CAST IRON TYPE, KEYED AND SECURELY ATTACHED TO THE WHEEL AND MOTOR SHAFTS. DRIVES SHALL BE SIZED FOR 150% OF THE INSTALLED MOTOR HORSEPOWER. THE VARIABLE PITCH MOTOR DRIVE MUST BE FACTORY SET TO THE SPECIFIED FAN RPM.
4. FAN SHALL BE THE XLPH AS MANUFACTURED BY LOREN COOK COMPANY OR APPROVED EQUAL.

I. SQUARE INLINE EXHAUSTER - DIRECT DRIVE:
1. THE FAN SHALL BE OF BOLTED AND WELDED CONSTRUCTION UTILIZING CORROSION RESISTANT FASTENERS. HOUSING SHALL BE MINIMUM 18 GAUGE STEEL WITH AIRFLOW STRAIGHTENING VANES, INTEGRAL DUCT FLANGES AND HINGED ACCESS DOOR.
2. FAN WHEEL SHALL BE CENTRIFUGAL BACKWARD INCLINED, CONSTRUCTED OF 100% ALUMINUM, INCLUDING A PRECISION MACHINED CAST ALUMINUM HUB. WHEEL INLET SHALL OVERLAP AN AERODYNAMIC ALUMINUM INLET CONE.
3. MOTOR SHALL BE HEAVY DUTY TYPE WITH PERMANENTLY LUBRICATED SEALED BALL BEARINGS AND FURNISHED AT THE SPECIFIED VOLTAGE, PHASE AND ENCLOSURE.
4. FAN SHALL BE MODEL SQI-D AS MANUFACTURED BY LOREN COOK COMPANY. GREENHECK, ACME AND PENN VENTILATOR ARE APPROVED EQUAL.

SECTION 15892 - LOW PRESSURE DUCTWORK

A. GENERAL
1. DUCT SYSTEM SHALL BE FABRICATED WITH SHEET METAL THICKNESSES AND REINFORCED IN ACCORDANCE WITH SMACNA, AS SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN. DUCTS 18 INCHES AND LARGER ON ANY SIDE SHALL BE STIFFENED BY BEADING ON NOT TO EXCEED 12 INCH CENTERS. UNLESS NOTED OTHERWISE THE MINIMUM PRESSURE/VELOCITY CLASSIFICATION SHALL BE 2 INCH W.G. PLUS OR MINUS, AT 2500 FT. PER MINUTE, DUCT SEAL CLASS "A". DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
2. DUCTWORK HANGERS SHALL BE SUPPORTED BY FASTENERS ATTACHED TO STRUCTURAL STEEL. REPAIR FIRE PROOFING WHICH WAS REMOVED FOR DUCTWORK INSTALLATION. INSTALLATION TO BE DONE BY AN APPROVED QUALIFIED TRADESMAN.
3. INSTALL IN THE DUCTWORK DEVICES FURNISHED BY THE TEMPERATURE CONTROLS SUB-CONTRACTOR. INSTALL SMOKE DETECTORS IN DUCTWORK FURNISHED BY THE DIVISION 16 CONTRACTOR.
4. WATER AND OTHER PIPES SHALL NOT BE ALLOWED TO PASS THROUGH AIR RISERS OR DUCTS, UNLESS APPROVED BY THE ENGINEERS, AND WHEN THIS OCCURS, THE SIZE OF SAID DUCT OR RISER SHALL BE PROPORTIONATELY INCREASED. SANITARY WASTE AND VENT PIPING SHALL NOT PENETRATE ANY DUCTWORK.

B. GALVANIZED STEEL DUCTWORK:
1. GALVANIZED STEEL DUCTWORK SHALL CONFORM TO ASTM A653 (G60). ALL LONGITUDINAL SEAMS SHALL BE GROOVED, DOUBLE OR PITTSBURGH TYPE.

C. DUCTWORK FITTINGS:
1. FOR RECTANGULAR DUCTWORK, VANES SHALL BE PROVIDED IN ELBOWS WITH 90 DEGREE THROATS AND THROAT RADII LESS THAN 1-1/2 TIMES DUCT WIDTH. VANES SHALL BE LOCATED IN ACCORDANCE WITH ASHRAE STANDARDS. DOUBLE-VANE AIRFOIL-TYPE TURNING VANES SHALL BE PROVIDED FOR ALL SQUARE TURNS.

D. HANGERS AND SUPPORTS:
1. PROVIDE CONCRETE INSERTS OR STRUCTURAL STEEL FASTENERS APPROPRIATE FOR BUILDING MATERIALS. PROVIDE TRAPEZE AND RISER SUPPORTS AS REQUIRED. SUPPORT MATERIALS SHALL BE THE SAME AS DUCTWORK SUPPORTING.
2. HANGER, STRAPS AND RODS SHALL WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" STANDARDS
3. DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS OR SELF-TAPPING METAL SCREWS, COMPATIBLE WITH DUCT MATERIALS.

E. SEALANT MATERIAL:
1. SEALANTS SHALL BE SOLVENT OR WATER BASED TYPE U.L. CLASSIFIED MEETING NFPA 90A CLASS 1 WITH ZERO FIRE AND SMOKE DEVELOPMENT RATING. SEALER SHALL BE UNITED SHEET METAL, UNITED DUCT SEALER, OR HARDCAST INDUSTRIAL GRIP NO. 601. TRANSVERSE SEAMS SHALL BE TAPED AND SEALED WITH TWO LAYERS OF UNITED SHEET METAL, UNI-CAST OR CAULKED WITH DUCT SEALER.

F. FLEXIBLE CONNECTORS:
1. INSTALL FLEXIBLE CONNECTORS AT ALL SUPPLY AND EXHAUST FANS AND OTHER AIR HANDLING UNITS WITH INLET AND OUTLET DUCT OR CASING CONNECTIONS. CONNECTORS SHALL NOT BE PAINTED. CONNECTORS SHALL NOT BE USED AS TRANSITION PIECES BETWEEN FAN AND DUCTWORK.
2. CONNECTORS SHALL BE NOT LESS THAN 4 INCHES LONG (IN CLEAR) AND PROPERLY ATTACHED TO DUCT AND FAN CONNECTION COLLAR BY 1 X 1/8 INCH DRAW BAND (FABRICATED OF THE SAME MATERIAL AS ADJACENT DUCTWORK) FIRMLY CLAMPED AROUND COLLARS IN SUCH A MANNER AS TO BE AIRTIGHT AND SECURED TO COLLARS WITH SHEET METAL SCREWS.
3. FLEXIBLE CONNECTORS SHALL BE U.L. LISTED, NEOPRENE COATED HEAVY GLASS FABRIC. FABRIC SHALL BE VENTGLAS, MANUFACTURED BY VENTFABRICS, INC.

G. FLEXIBLE DUCTWORK:
1. FLEXIBLE DUCTS SHALL BE USED FOR STRAIGHT RUNS OF DUCT OR OFFSETS UP TO 45 DEGREES, BUT NOT EXCEEDING 48 INCHES IN LENGTH. THE USE OF FLEXIBLE DUCTS AS ELBOWS WITH MORE THAN A 45 DEGREE BEND WILL NOT BE PERMITTED.
2. FLEXIBLE DUCT SHALL BE UL LISTED AND LABELED AS CLASS 1, AIR DUCT CONNECTOR, IN ACCORDANCE WITH U.L. STANDARD 181 AND SHALL MEET THE REQUIREMENTS OF THE LATEST NFPA BULLETIN, NO. 90A AND NO. 90B FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATING.
3. FLEXIBLE DUCT SHALL BE RATED FOR A MAXIMUM PRESSURE OF 6 INCH POSITIVE AND 3/4 INCH NEGATIVE AND 4000 FPM MAXIMUM VELOCITY. AIR DUCT SHALL CONSIST OF: CPE LINER, COATED SPRING STEEL WIRE HELIX, FIBERGLASS INSULATING BLANKET, FIBERGLASS SCRIM AND REINFORCED ALUMINUM VAPOR BARRIER. THERMAL CONDUCTANCE SHALL BE .23 OR LESS.
4. DUCT BE FLEXMASTER TYPE 8M OR PRIOR APPROVED EQUAL.

A. VOLUME DAMPERS:
1. SINGLE BLADE DAMPERS SHALL BE CONSTRUCTED OF .22 GAUGE GALVANIZED STEEL (BLADE AND FRAME). SINGLE BLADE DAMPERS SHALL BE LIMITED TO A 12 INCH HIGH BLADE. BLADE EDGES SHALL BE CRIMPED OR REINFORCED. DAMPER LEVERS SHALL INDICATE POSITIVELY THE OPEN AND CLOSED POSITION. END BEARINGS SHALL BE MOLDED SYNTHETIC. DAMPERS SHALL BE RUSKIN MD25 OR APPROVED EQUAL (RUSKIN MDRS25 FOR ROUND DUCTS).
2. MULTIBLADE DAMPERS SHALL BE CONSTRUCTED OF SHEET METAL THE SAME MATERIAL AS THE ADJACENT DUCTWORK. DAMPER FRAME SHALL BE NOT LESS THAN 16 GA., DAMPER BLADES NOT WIDER THAN 6 INCHES CRIMPED OR REINFORCED. DAMPER LEVERS SHALL INDICATE POSITIVELY THE OPEN AND CLOSED POSITION. END BEARINGS SHALL BE MOLDED SYNTHETIC. DAMPER SHALL BE RUSKIN MD35 OR APPROVED EQUAL.

B. FIRE DAMPERS:
1. FIRE DAMPERS SHALL BE UNDERWRITERS APPROVED AND LABELED (UL555). DAMPERS SHALL BE FABRICATED OF GALVANIZED STEEL AND SHALL BE OF SUCH A DESIGN AND LENGTH AS TO FUNCTION AS A WALL MOUNTING SLEEVE, WHICH SHALL BE A PART OF THE FIRE DAMPER. SLEEVES SHALL BE OF WELDED OR BOLTED CONSTRUCTION. CRIMPING OR TABS WILL NOT BE ACCEPTABLE SUBSTITUTES FOR WELDING OR BOLTING.
2. FIRE DAMPERS SHALL BE RUSKIN DIDB2 SERIES FOR 1 2 HOUR RATING. FIRE DAMPERS SHALL BE RUSKIN DIDB23 SERIES FOR 3 HOUR RATING. INSTALL STYLE A FIRE DAMPERS BEHIND DUCTED GRILLES AND REGISTERS IN RATED WALLS. INSTALL STYLE B OR C FIRE DAMPERS IN DUCTED OPENINGS IN RATED WALLS. AIR BALANCE AND PREFCO ARE APPROVED EQUAL.

C. DAMPER HARDWARE:
1. ALL HARDWARE SHALL BE SMACNA ACCEPTED. INSULATED DUCTWORK (CONCEALED) - VENTLOK 638 ELEVATED DIAL REGULATOR. INSULATED DUCTWORK (EXPOSED) - VENTLOK 644 - SELF LOCKING REGULATOR. UNINSULATED DUCTWORK - VENTLOK 555 OR 560 QUADRANTS.

D. DUCT ACCESS DOORS:
1. ACCESS DOORS SHALL BE HINGED, CONSTRUCTED OF THE SAME MATERIAL AS THE DUCTWORK. DOOR EDGES SHALL BE SEALED WITH 3/4 INCH WIDE X 1/8 INCH THICK NEOPRENE SPONGE GASKETING. DOOR HARDWARE SHALL BE VENTLOK #100 LATCHES. ACCESS DOORS ON INSULATED DUCTWORK SHALL BE DOUBLE WALL CONSTRUCTION WITH 1 INCH OF RIGID 3 PCF FIBERGLASS INSULATION.
2. PROVIDE DUCT ACCESS DOORS AT ALL DUCT MOUNTED DEVICES REQUIRING ADJUSTMENT OR RESETTING. ACCESS DOORS SHALL BE APPROXIMATELY 18 INCHES HIGH BY 24 INCHES WIDE. IN SMALLER DUCTWORK, THE HEIGHT SHALL BE REDUCED TO BE 2 INCHES LESS THAN THAT OF THE DUCTWORK.

SECTION 15906 - TEMPERATURE CONTROLS

A. GENERAL:
1. FURNISH AND INSTALL AN ELECTRIC SYSTEM OF AUTOMATIC TEMPERATURE CONTROL AS SPECIFIED HEREIN AND AS SHOWN ON THE CONTRACT DRAWINGS AS MANUFACTURED BY HONEYWELL, JOHNSON CONTROLS, INVENSYS, OR APPROVED EQUAL.
2. EXTRA COSTS INCURRED BY USE OF OTHER THAN BASE BID CONTROL SYSTEM, SUCH AS WIRING, CONTRACT DRAWINGS CHANGES, CHANGES IN DESIGN, ADDED SUPERVISION, ETC., SHALL BE THE RESPONSIBILITY OF THE TEMPERATURE CONTROL SUBCONTRACTOR (TCSC).
3. SYSTEM DOCUMENTATION SHALL INCLUDE THE FOLLOWING: MANUFACTURER'S DATA SHEETS OF ALL PRODUCTS (ORIGINAL COPIES), COMPLETE DESCRIPTION OF OPERATION OF ALL CONTROL LOOPS, INCLUDING RECOMMENDED SETPOINTS AND RANGES OF ADJUSTMENT; FULLY LABELED ELEMENTARY DIAGRAM (ELECTRICAL LADDER DIAGRAM), AND LISTS OF ALL PROPOSED DEVICES AND EQUIPMENT

B. MOTOR OPERATORS: MOTOR OPERATOR SHALL BE SPRING RETURN TYPE, WHICH RETURNS MOTOR ACTUATOR SHAFT TO ITS FULL NORMAL MECHANICAL TRAVEL UPON POWER FAILURE. DAMPER MOTOR DRIVE MECHANISM WILL INCLUDE HOLDING BRAKE TO KEEP THE RETURN SPRING FROM DRAWING THE ACTUATOR FROM DRIVING TOWARD ITS NORMAL POSITION UNLESS POWER IS INTERRUPTED. SUPPLY AND INSTALL ELECTRIC MOTOR OPERATORS FOR ALL DAMPERS. UNIT SHALL BE HONEYWELL MS8105A SERIES OR APPROVED EQUAL.

C. AUTOMATIC DAMPERS: ALL CONTROL DAMPERS SHALL BE STANDARD PRODUCTS OF DAMPER OR TEMPERATURE CONTROL MANUFACTURERS UNLESS NOTED OTHERWISE. LOCAL FABRICATION OF DAMPERS IS NOT ALLOWED. DAMPERS SHALL BE OPPOSED BLADE TYPE. FURNISH FOR INSTALLATION BY THE MECHANICAL CONTRACTOR ALL MOTOR OPERATED DAMPERS. DAMPERS SHALL BE RUSKIN MODEL CD50. GREENHECK IN AN APPROVED EQUAL.

D. THERMOSTATS:
1. PROVIDE HVAC THERMOSTAT WITH THE FOLLOWING FEATURES: SEVEN DAY PROGRAMMING, TWO OCCUPIED/TWO UNOCCUPIED PERIODS PER DAY, AUTOMATIC HEAT/COOL CHANGEOVER WITH 2°F MINIMUM DEAD BAND, TWO STAGE HEATING, TWO STAGE COOLING, TOUCHSCREEN DISPLAY, AUXILIARY CONTACT, AND TEMPERATURE OVERRIDE. THERMOSTAT SHALL BE HONEYWELL VISIONPRO 8000 OR EQUAL.
2. PROVIDE HEATER AND VENTILATION THERMOSTAT WITH THE FOLLOWING FEATURES: SINGLE STAGE CONTROL, ON/OFF/AUTO SWITCHING, AND ADJUSTABLE SETPOINT CONTROL

E. TEMPERATURE CONTROL WIRING:
1. ALL CONTROL WIRING AND CONDUIT REQUIRED TO COMPLETE THE TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROL SUB-CONTRACTOR. ALL WIRING SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OUTLINED IN DIVISION 16. WIRE SIZE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NATIONAL ELECTRIC CODE. MINIMUM CONDUIT SHALL BE 1/2 INCH DIAMETER. TCSC SHALL COORDINATE ALL CONTROL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO BID.
2. ELECTRICAL CONNECTIONS BETWEEN VARIOUS UNIT CONTROL CABINETS SHALL BE MADE BY THE TCSC. ALL WIRING MUST BE TAGGED ON BOTH ENDS WITH PANEL NUMBER AND TERMINAL NUMBER.
3. THE TCSC IS RESPONSIBLE FOR ALL REQUIRED PROCESS AND ELECTRICAL CONNECTIONS TO ALL EQUIPMENT, CONTROL DEVICES, AND FIELD INSTRUMENTS. TCSC SHALL FURNISH AND INSTALL ALL CONDUITS, RACEWAYS, ETC., REQUIRED. TCSC SHALL FURNISH AND INSTALL ALL CONTROL AND INTERLOCK WIRING. TCSC SHALL FURNISH AND INSTALL ALL REQUIRED AUXILIARY STARTER CONTACTS OR RELAYS, ETC., FOR A COMPLETE ELECTRICAL INTERLOCK AND CONTROL WIRING SYSTEM.

F. INSTALLATION:
1. THE ENTIRE CONTROL SYSTEM, INCLUDING LOW VOLTAGE WIRING, WITH THE EXCEPTION OF DUCT MOUNTED AUTOMATIC DAMPERS AND SMOKE DETECTORS, SHALL BE INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR, WHO SHALL MAKE ALL TESTS AND ADJUSTMENTS. ALL CONTROLS SHALL BE FIELD-TESTED AND FIELD-CALIBRATED.
2. SET POINTS OF ALL CONTROLLING INSTRUMENTS ARE INDICATED AT A SPECIFIC POINT; HOWEVER, ALL SET POINTS SHALL BE ADJUSTABLE UP AND DOWN FROM THE POINT INDICATED.
3. CONTRACTOR SHALL SUBMIT TENTATIVE LOCATIONS OF ALL CONTROL DEVICES AND COMPONENTS (INCLUDING TEMPERATURE SENSORS) TO THE ARCHITECT FOR WRITTEN APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO LOCATION OF CONTROL DEVICES AND COMPONENTS TO LOCATION OF CONTROL DEVICES AND COMPONENTS. EFFECTS OF DRAFTS, RADIANT HEAT, VIBRATION, ETC ARE TO BE CONSIDERED WHEN INSTALLING CONTROL DEVICES AND COMPONENTS.
4. PRIOR TO ORDERING FACTORY ASSEMBLED EQUIPMENT WHICH CONTAINS INTEGRAL CONTROL DEVICES AND COMPONENTS, THE CONTRACTOR SHALL OBTAIN A WRITTEN STATEMENT FROM BOTH THE MANUFACTURER AND THE INSTALLING CONTRACTOR THAT THEY HAVE REVIEWED THE APPROPRIATE SHOP DRAWING DATA AND ARE AWARE OF THE MAKE, MODEL, TYPE, SIZE, CHARACTERISTICS, ETC. OF THE FACTORY ASSEMBLED CONTROL DEVICES AND COMPONENTS WHICH THEY SHALL BE REQUIRED TO INTERFACE TO AND/OR CONTROL.
5. ALL CONTROL DEVICES (BOTH FIELD AND PANEL MOUNTED) SHALL BE LABELED TO INDICATE BOTH THEIR CONTROL SYSTEMS DESIGNATION, E.G., RTU-1 THERMOSTAT. UNLESS INDICATED OTHERWISE, ABBREVIATIONS AND ACRONYMS FOR ALL ID TAGS AND PANEL FACEPLATES SHALL BE APPROVED BY THE ENGINEER.
6. ALL CONTROL DEVICES ARE TO BE MOUNTED IN ACCESSIBLE LOCATIONS. ALL DEVICES EXPOSED TO THE WEATHER SHALL BE HOUSED IN WEATHERPROOF ENCLOSURES.
7. AT THE COMPLETION OF THE JOB, TCSC SHALL CORRECT HIS DRAWINGS TO INCLUDE ANY CHANGES MADE DURING CONSTRUCTION. TCSC SHALL PROVIDE COLOR-CODED DRAWINGS INDICATED ALL TEMPERATURE ZONES AND EQUIPMENT (3 COPIES).

G. OPERATION TEST AND OWNER'S INSTRUCTION:
1. AT COMPLETION, TCSC SHALL OPERATE THE SYSTEM FOR A PERIOD OF AT LEAST THREE DAYS OF EIGHT HOURS EACH ON THE NEW SYSTEMS TO DEMONSTRATE FULFILLMENT OF THE REQUIREMENTS OF THE CONTRACT. DURING THIS TIME, ALL ADJUSTMENTS SHALL BE MADE TO THE EQUIPMENT SO THAT IT IS IN FIRST-CLASS OPERATING CONDITION. THE ENTIRE SYSTEM IS TO BE LEFT IN OPERATING CONDITION ACCEPTABLE TO THE ENGINEER.
2. UPON COMPLETION OF THE WORK AND ACCEPTANCE BY THE OWNER, TCSC SHALL PROVIDE ONE SCHEDULED FOUR-HOUR PERIOD OF FORMAL INSTRUCTION TO THE OWNER'S OPERATING PERSONNEL WHO HAVE RESPONSIBILITY FOR THE MECHANICAL SYSTEM.

H. SEQUENCE OF OPERATIONS:
1. HVAC UNITS:
   1. NORMAL OPERATION:
      1. UNITS SHALL BE CONTROLLED BY SPACE THERMOSTAT. FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED MODE AND INTERMITTENTLY DURING UNOCCUPIED MODE.
      2. HEATING AND COOLING SHALL BE ENABLED BY THERMOSTAT.
      3. COOLING SETPOINT SHALL BE 73°F (ADJUSTABLE).
      4. HEATING SETPOINT SHALL BE 68°F (ADJUSTABLE).
      5. OUTSIDE AIR DAMPER SHALL OPEN DURING OCCUPIED MODE AND CLOSE DURING UNOCCUPIED MODE. OUTSIDE AIR DAMPER SHALL BE NORMALLY CLOSED AND RETURN TO NORMAL POSITION UPON LOSS OF POWER.
2. EXHAUST FANS:
   1. INTERLOCK EXHAUST FANS AS NOTED ON SCHEDULE.

SECTION 15936 - REGISTERS, GRILLES AND DIFFUSERS

A. PRODUCT PERFORMANCE DATA SHALL BE TAKEN FROM TESTS CONDUCTED IN ACCORDANCE WITH ANSI/ASHRAE 70, AND ARI-890.

B. THE NOMINAL OR DUCT CONNECTION SIZE OF GRILLES (NOT OVERALL DIMENSIONS) IS GIVEN ON PLANS. GRILLES AND REGISTERS INCLUDING VOLUME CONTROLLERS SHALL BE CONSTRUCTED OF THE SAME MATERIALS SPECIFIED FOR THE GRILLE. THE GRILLE FINISH SHALL BE WHITE UNLESS NOTED OTHERWISE.

C. REFER TO ARCHITECTURAL DRAWINGS FOR THE VARIOUS CEILING TYPES. REFER TO DRAWINGS OF REFLECTED CEILING PLANS FOR LOCATION OF CEILING DIFFUSERS AND GRILLES. MOUNTING FRAMES SHALL BE PROVIDED FOR ALL GRILLES AND REGISTERS MOUNTED IN DRYWALL, PLASTER, CONCRETE OR MASONRY OPENINGS.

D. SUPPLIER SHALL CHECK ALL AIR DISTRIBUTION AND RETURN AIR DEVICES FOR PROPER PERFORMANCE, NOISE AND ACCESSORIES. ANY DEVICE EXCEEDING NOISE LEVEL HEREIN SPECIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS.

E. CONTRACTOR SHALL COORDINATE OPENINGS IN HARD CEILINGS, FURRED WALLS, MASONRY WALLS, AND FLOORS. MOUNT EACH DEVICE SECURELY TO AVOID RATTLING AND VIBRATION. DEVICES SHALL BE PARALLEL TO THE PLANE OF THE SURFACES THEY ARE MOUNTED.

F. CEILING DIFFUSER TYPE A - TITUS MODEL TDC STEEL LOUVERED FACE DIFFUSER WITH 12 X 12 INCH MODULE AND 9 X 9 INCH UNIFORM BACKPAN. DIFFUSER SHALL INCLUDE ROUND NECK, REMOVABLE CORE OF FIXED DEFLECTION LOUVERS AND EQUALIZING GRID. DIFFUSER SHALL BE SUITABLE FOR SURFACE MOUNTING WITH AIR PATTERN AS SHOWN ON DRAWINGS.

G. RETURN/EXHAUST/GRILLES TYPE A - TITUS MODEL 350 RL STEEL GRILLE. SHALL INCLUDE ONE SET OF FIXED BLADES SET AT 35º DEFLECTION ON 3/4 INCH SPACING.

H. RETURN/EXHAUST/GRILLES TYPE B - TITUS MODEL 50F ALUMINUM EGG CRATE GRILL. GRILLE SHALL INCLUDE 2 X 2 X 2 INCH ALUMINUM GRID.

I. RETURN/EXHAUST/GRILLES TYPE C - TITUS MODEL 33R STEEL HEAVY DUTY BAR GRILLE SHALL INCLUDE ONE SET OF FIXED BLADES SET AT 38º DEFLECTION ON 2 INCH SPACING. BARS SHALL BE 14 GAUGE STEEL. BARS SHALL BE REINFORCED BY PERPENDICULAR STEEL BARS SPACED ON 6 INCH MAXIMUM CENTERS.

SECTION 15990 - TESTING, ADJUSTING AND BALANCING

A. THE TEST AND BALANCE CONTRACTOR SHALL BE AN INDEPENDENT CONTRACTOR THAT REGULARLY PERFORMS AIR AND WATER SYSTEMS TESTING AND BALANCING. MINIMUM QUALIFICATIONS FOR ACCEPTANCE SHALL BE GENERAL MEMBERSHIP IN NEBB OR AABC, EXCEPT THAT AFFILIATION WITH MANUFACTURERS, INSTALLING, CONTRACTORS, OR ENGINEERING FIRMS MAY NOT PRECLUDE ACCEPTANCE.

B. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN ASHRAE APPLICATIONS HANDBOOK, AABC OR NEBB NATIONAL STANDARDS.

C. CUT INSULATION, DUCTS, PIPES, AND EQUIPMENT CABINETS FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES. AFTER TESTING AND BALANCING, CLOSE PROBE HOLES AND PATCH INSULATION WITH NEW MATERIALS IDENTICAL TO THOSE REMOVED. RESTORE VAPOR BARRIER AND FINISH ACCORDING TO THE INSULATION SPECIFICATIONS FOR THIS PROJECT.

D. MARK EQUIPMENT SETTINGS WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL, INCLUDING DAMPER-CONTROL POSITIONS, VALVE INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS.

E. SET HVAC SYSTEM AIRFLOW AND WATER FLOW RATES WITHIN THE FOLLOWING TOLERANCES:
1. SUPPLY, RETURN, AND EXHAUST FANS: PLUS 5 TO PLUS 10 PERCENT.
2. AIR OUTLETS AND INLETS: 0 TO MINUS 10 PERCENT.
3. HEATING-WATER FLOW RATE: 0 TO MINUS 10 PERCENT.
4. COOLING-WATER FLOW RATE: 0 TO MINUS 5 PERCENT.

F. WITHIN 90 DAYS OF COMPLETING TESTING, ADJUSTING, AND BALANCING, PERFORM ADDITIONAL TESTING AND BALANCING TO VERIFY THAT BALANCED CONDITIONS ARE BEING MAINTAINED THROUGHOUT AND TO CORRECT UNUSUAL CONDITIONS. IF INITIAL TESTING, ADJUSTING, AND BALANCING PROCEDURES WERE NOT PERFORMED DURING NEAR-PEAK SUMMER AND WINTER CONDITIONS, PERFORM ADDITIONAL INSPECTIONS, TESTING, AND ADJUSTING DURING NEAR-PEAK SUMMER AND WINTER CONDITIONS.

G. THE MECHANICAL CONTRACTOR=S RESPONSIBILITIES: FURNISH THE TEST AND BALANCE CONTRACTOR ONE COMPLETE SET OF ACCEPTED EQUIPMENT DATA AND ONE COMPLETE SET OF ACCEPTED MECHANICAL SHOP DRAWINGS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING THE TEST AND BALANCE CONTRACTOR OF ANY CHANGE(S) MADE TO THE SYSTEM(S) DURING THE CONSTRUCTION PROCESS. MECHANICAL CONTRACTOR SHALL PROVIDE DRAWINGS, SPECIFICATIONS, SHOP DRAWINGS, CONTROL DIAGRAMS, ETC. DETAILING THE CHANGE(S) TO THE TEST AND BALANCE CONTRACTOR. REPLACE AND/OR INSTALL PULLEYS, BELTS, DAMPERS AND TRIM PUMP IMPELLERS AS REQUIRED FOR THE CORRECT BALANCE AS DIRECTED BY THE TEST AND BALANCE CONTRACTOR. ALLOCATE TIME IN THE CONSTRUCTION SCHEDULE FOR TEST AND BALANCE PROCEDURE, ASSIST THE TEST AND BALANCE CONTRACTOR IN COORDINATING WORK WITH THE OTHER TRADES, AND PREPARE THE SYSTEM FOR TESTING AND BALANCING.

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Job No.26086

AHO ARCHITECTS, LLC
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REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
4/

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: EOC - Ocean Springs, MS
Location: Ocean Springs, Mississippi
Climate Zone: 2a
Project Type: New Construction

Construction Site:
Ocean Springs, Mississippi

Owner/Agent:
Express Oil Change & Tire Engineers
2111 Parkway Office Drive
Birmingham, Alabama 35244
2059431771
steve@expressoil.com

Designer/Contractor:
Steve Priola
Pinnacle Engineering
4531 Shady Crest Drive
Hoover, Alabama 35216

Additional Efficiency Package(s)

Credits: 1.0 Required: 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 AHU-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 32 kBtu/h, Heating Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 34 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER
Additional Part Load Efficiency = 0.0, Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 1 Lifica - Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1195 CFM, 0.3 motor nameplate hp, 0.5 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

1 RH-1,2,3,4,5 (Single Zone w/ Perimeter/System):
Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h
No minimum efficiency requirement applies

1 Water Heater:
Electric Storage Water Heater, Capacity: 30 gallons w/ Circulation Pump
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to comply with 2018 IECC Mechanical requirements, Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Steve Priola, PE — 4/17/26
Name - Title — Signature — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 57.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR17]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR27]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable methods/standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR47]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Calculations per acceptable methods/standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR67]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the lighting systems and equipment and document where exceptions to the standard are claimed. Supporting information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR87]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical power and electrical systems and equipment and document where exceptions to the standard are claimed. Supporting information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1 [PR107]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C402.4.1 [PR117]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.2 [PR147]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling height > 15 ft, all occupied (except lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, or area that is used for automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the minimum skylight area shall be half the floor area, (b) the skylight area to skylight zone is >= 3 percent for skylight zone 0-0.40, or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR97]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO47]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2.1 [FO67]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping or equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [FO37]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C402.2.4 [FO27]	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C403.12.2 [FO57]	Snowmelt system controls prevent operation when outdoor air temperature controls configured to limit service to pavement temperature and outdoor moisture use. Future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR127]	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1.3 [FR137]	Fenestration products are certified as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.3 [FR107]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C402.4.5 [FR117]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C402.5.1 [FR182]	The building envelope contains a continuous air barrier that is sealed in an approved manner and either certified or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.2, C402.5.4 [FR187]	Fenestration, penetration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL07]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.4.1, C404.6 [PL37]	Automatic time switches installed to automatically switch off the circulating hot water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.3 [PL17]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to not > 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.7 [PL87]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the temperature at the most remote hot water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C407.2.6 [ME41]*	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.5, C403.2.4.3 [ME37]	Stair and elevator shaft vents have motorized dampers that automatically close. Reference section C403.7.7 for exceptions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3 [ME67]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage. Is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.1 [ME83]*	Boilers, systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
C403.8.3 [ME117]*	Fans have efficiency grade (FEG) >= 67. The total efficiency at the fan at the design point of operation <= 15% maximum total efficiency of the fan.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.4 [ME142]*	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.5 [ME143]*	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.12.1 [ME71]*	Systems that heat outside the building envelope are radiant heat systems controlled by occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.2.2 [ME59]*	Natural or mechanical ventilation is provided in accordance with International Mechanical Code (IMC). Where the building envelope has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.1 [ME59]*	Demand control ventilation provided for spaces >500 ft2 and >=25 people/1000 ft2 occupant density and supplied by air-side economizer, auto-modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.2 [ME115]*	Enclosed parking garage ventilation has automatic controls of operation and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.6 [ME141]*	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms, has controls that are provided with controls that automatically manage temperature setpoints according to these sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.4 [ME57]*	Exhaust air energy recovery on systems per Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.5 [ME116]*	Kitchen exhaust systems comply with replacement air and conditioned supply, transfer, and capacity limits provided with interlocking and integral exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.11.1 [ME66]*	HVAC ducts and plenums insulated in accordance with C403.11.1 and C403.11.2. Insulation installed per C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.6, [ME63]*	Heating for vestibules and air curtains with integral heating include automatic controls to shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C408.2.2.1 [ME53]*	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123]*	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condenser(s) comply with C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL207]	Spaces required to have light-reduction controls have a manual control that is readily accessible to reduce the connected lighting load in a reasonably uniform illumination [EL207]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.2 [EL187]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting rooms, employee rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan offices, restrooms, storage rooms, locker rooms, warehouse storage areas, and other similar spaces. Or, lighting controlled by floor-to-ceiling height partitions. Reference section language [EL187] Exception: Spaces in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1 [EL197]	Occupancy sensor control function in warehouses: In warehouses, the general lighting is automatically controlled with occupant sensors that automatically reduce lighting power by 50% or more when spaces are unoccupied. The occupant sensors control lighting in each aisleway independently and keep all general lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1 [EL207]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be automatically reduced in zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all enclosed areas within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power when occupancy for the entire area is detected, and 4) are configured such that any daylight responsive controls for the same general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.1, C405.2.2.2, C405.2.2.3 [EL217]	Each area not served by occupancy sensors per C405.2.1 has manual on switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL227]	Daylight zones provided with individual controls that control the daylighted area independent of the lighting. See code section C405.2.3 Daylight-responsive controls for [EL227] Daylight zones. For daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL267]	Automatic time switch control device for specific uses indicated per approved lighting plans.	☐Complies ☐Does Not ☐Not Applicable	
C405.2.4 [EL277]	Additional interior lighting power allowance is controlled by one of the approved lighting controls and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Applicable	
C405.2.5 [EL187]*	Manual controls required by the applicable sections shall be readily access to occupants and located where the controlled lights are visible from directly the area served and their status.	☐Complies ☐Does Not ☐Not Applicable	
C405.2.6 [EL207]*	Automatic lighting controls for exterior lighting installed and shall be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%	☐Complies ☐Does Not ☐Not Applicable	
C405.3 [EL62]*	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.6 [EL267]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL277]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) and C405.7(2). Motor Efficiency verified through certification under an approved certification program or the nameplate efficiency ratings shall be provided by motor manufacturer (where certification program is not used).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.1, C405.8.2 [EL282]*	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to operate at the lowest rated speed permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9 [EL297]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN27]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN200]	Insulation installed on a suspended ceiling with removable panels is as specified for roof/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1 [IN207]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2 [IN77]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN67]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C402.2.3 [IN87]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C402.2.6 [IN197]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants, shall be insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Applicable	
C402.3 [IN57]*	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance index >= 64 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐Complies ☐Does Not ☐Not Applicable	
C105 [IN27]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling applications, inspection may not occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.
C402.5.1.1 [IN17]	All sources of air leakage in the building thermal envelope are sealed or caulked. Joints and seams shall be sealed or wrapped with material in a manner compatible with the material and surface, and properly shall be installed to maintain an air barrier.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.5, C408.2.5.2 [FI177]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.3, C408.2.5.3 [FI87]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.6 [FI177]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.8 [FI267]	Recessed luminaires in thermal envelope are sealed to gypsum be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [FI277]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.3 [FI47]*	Heating and cooling to each zone is controlled by a thermostat control, humidistat, or space humidity control device per installed HumidificationDehumidification.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.1 [FI427]*	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1 [FI387]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.3 [FI207]*	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2 [FI287]*	Each zone equipped with setback thermostat or control system has a clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2.1, C403.2.4.2.2 [FI407]*	Automatic Controls: Setback to 55°F (heat) and 85°F (cool). 7-day clock; 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4 [FI417]*	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.3 [FI117]*	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.4 [FI257]*	All piping insulated in accordance with section details and Table C403.11.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1 [FI127]*	Controls are installed that limit the operation of a recirculation pump based on the temperature of water in a storage tank. System return pipe to a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI187]*	Interior installed lamp and fixture wattage is not greater than what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI167]*	Exterior lighting power is consistent with Table C405.5.1 and approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [FI317]*	Building operations and maintenance information is provided to the owner. Documents will cover manufacturers' information, maintenance, and operations procedures and means of illustrating to owner how building, equipment and systems are supposed to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.1 [FI287]*	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3 [FI337]*	HVAC equipment has been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3 [FI337]*	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI297]*	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI177]*	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5.2 [FI167]*	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI437]*	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.4 [FI307]*	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI337]*	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Pinnacle ENGINEERING, INC.
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Job No.26086

AHO ARCHITECTS, LLC
www.ahoarch.com

4/21/26

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issued for Bid	06/15/2026

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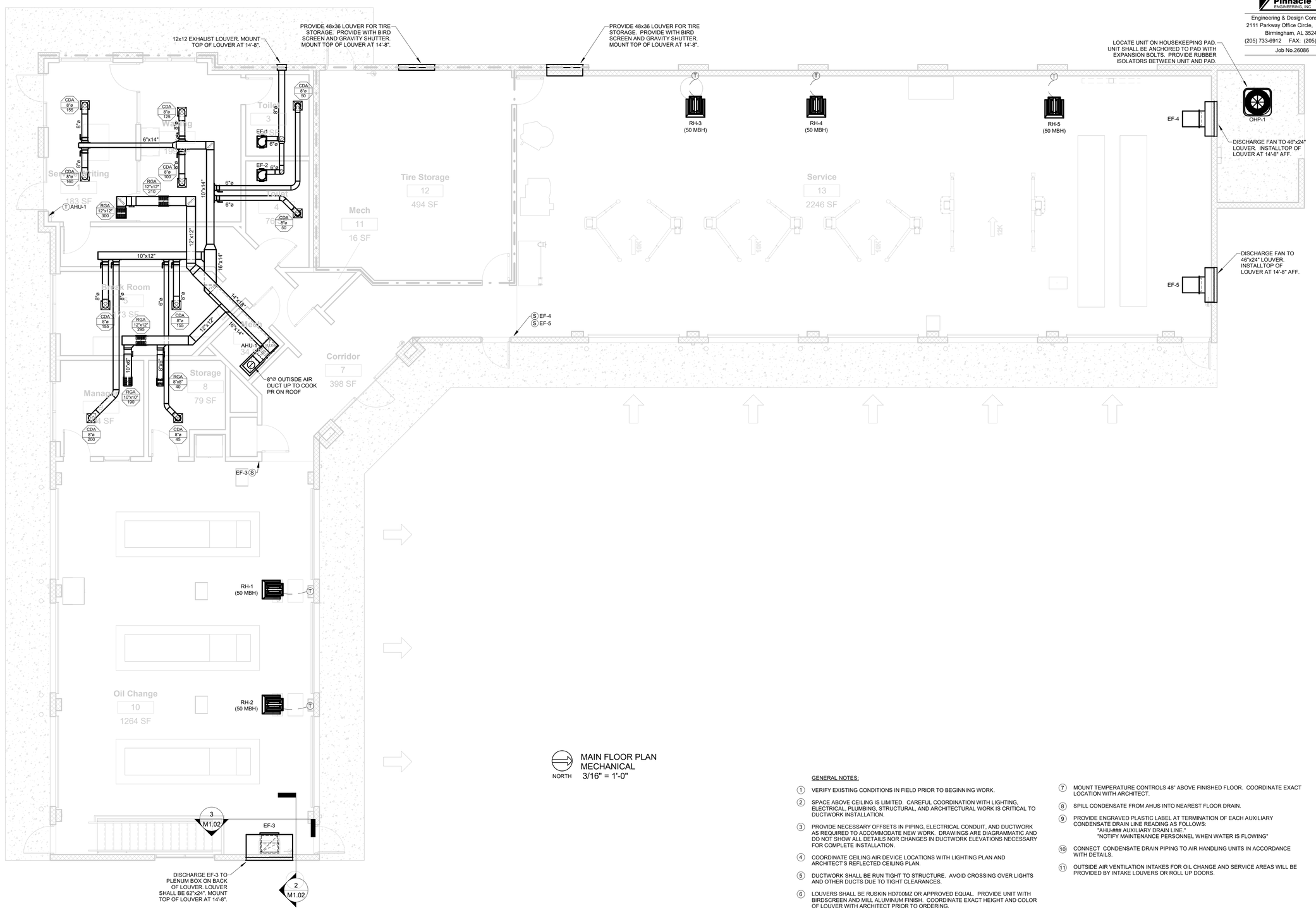
Mechanical Comcheck

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

M0.04

Scale 6" = 1'-0"

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MAIN FLOOR PLAN
MECHANICAL
3/16" = 1'-0"

NORTH

GENERAL NOTES:

1. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
2. SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, PLUMBING, STRUCTURAL, AND ARCHITECTURAL WORK IS CRITICAL TO DUCTWORK INSTALLATION.
3. PROVIDE NECESSARY OFFSETS IN PIPING, ELECTRICAL CONDUIT, AND DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS NOR CHANGES IN DUCTWORK ELEVATIONS NECESSARY FOR COMPLETE INSTALLATION.
4. COORDINATE CEILING AIR DEVICE LOCATIONS WITH LIGHTING PLAN AND ARCHITECT'S REFLECTED CEILING PLAN.
5. DUCTWORK SHALL BE RUN TIGHT TO STRUCTURE. AVOID CROSSING OVER LIGHTS AND OTHER DUCTS DUE TO TIGHT CLEARANCES.
6. LOUVERS SHALL BE RUSKIN HD700MZ OR APPROVED EQUAL. PROVIDE UNIT WITH BIRDSCREEN AND MILL ALUMINUM FINISH. COORDINATE EXACT HEIGHT AND COLOR OF LOUVER WITH ARCHITECT PRIOR TO ORDERING.
7. MOUNT TEMPERATURE CONTROLS 48" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
8. SPILL CONDENSATE FROM AHUS INTO NEAREST FLOOR DRAIN.
9. PROVIDE ENGRAVED PLASTIC LABEL AT TERMINATION OF EACH AUXILIARY CONDENSATE DRAIN LINE READING AS FOLLOWS:
   "AHU-### AUXILIARY DRAIN LINE."
   "NOTIFY MAINTENANCE PERSONNEL WHEN WATER IS FLOWING"
10. CONNECT CONDENSATE DRAIN PIPING TO AIR HANDLING UNITS IN ACCORDANCE WITH DETAILS.
11. OUTSIDE AIR VENTILATION INTAKES FOR OIL CHANGE AND SERVICE AREAS WILL BE PROVIDED BY INTAKE LOUVERS OR ROLL UP DOORS.

Pinnacle ENGINEERING, INC.
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Birmingham, AL 35244
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Job No.26086

AHO ARCHITECTS, LLC
www.ahoarch.com

4/21/26

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issued for Bid	06/15/2026

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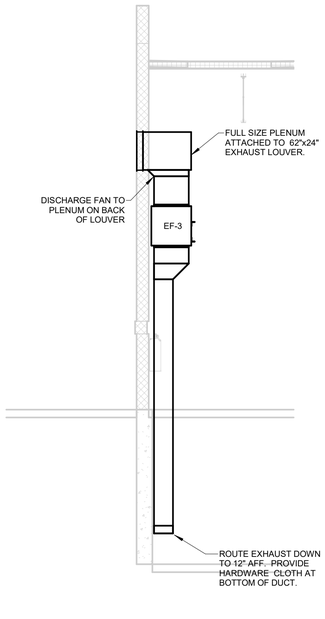
Mechanical Floor Plan

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

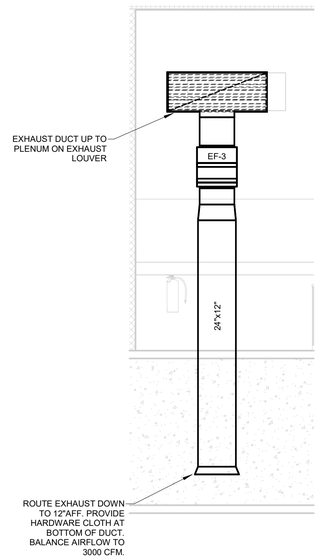
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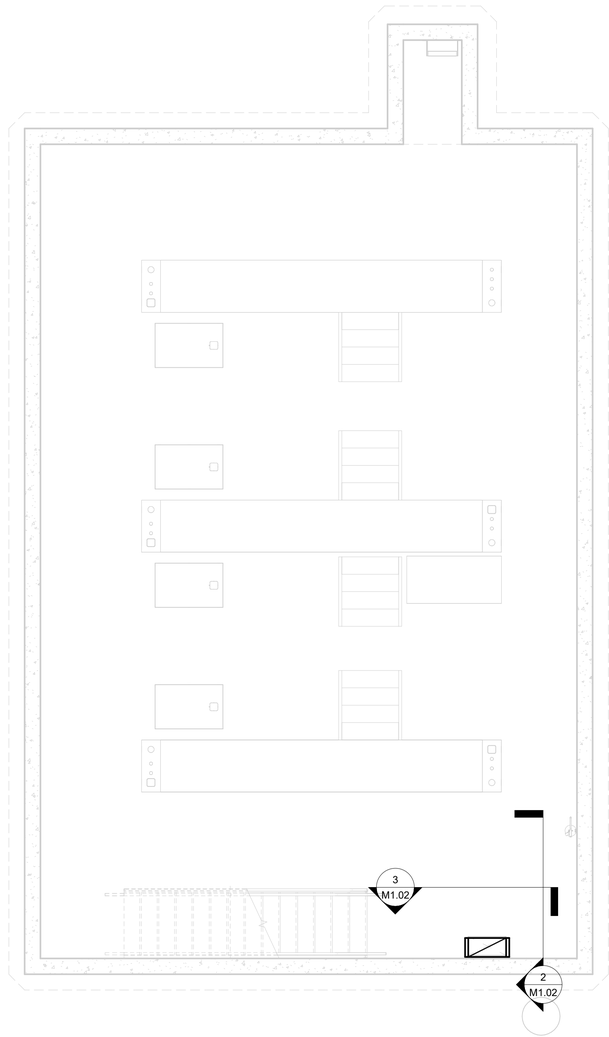
2 M1.02 Section Through Pit Exhaust
1/4" = 1'-0"



3 M1.02 Pit Exhaust Elevation
1/4" = 1'-0"

GENERAL NOTES:

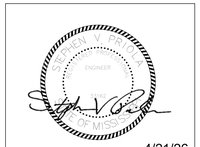
1. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
2. SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, PLUMBING, STRUCTURAL, AND ARCHITECTURAL WORK IS CRITICAL TO DUCTWORK INSTALLATION.
3. PROVIDE NECESSARY OFFSETS IN PIPING, ELECTRICAL CONDUIT, AND DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS NOR CHANGES IN DUCTWORK ELEVATIONS NECESSARY FOR COMPLETE INSTALLATION.
4. COORDINATE CEILING AIR DEVICE LOCATIONS WITH LIGHTING PLAN AND ARCHITECT'S REFLECTED CEILING PLAN.
5. DUCTWORK SHALL BE RUN TIGHT TO STRUCTURE. AVOID CROSSING OVER LIGHTS AND OTHER DUCTS DUE TO TIGHT CLEARANCES.
6. LOUVERS SHALL BE RUSKIN HD700MZ OR APPROVED EQUAL. PROVIDE UNIT WITH BIRDSCREEN AND MILL ALUMINUM FINISH. COORDINATE EXACT HEIGHT AND COLOR OF LOUVER WITH ARCHITECT PRIOR TO ORDERING.
7. MOUNT TEMPERATURE CONTROLS 48" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
8. SPILL CONDENSATE FROM AHUS INTO NEAREST FLOOR DRAIN.
9. PROVIDE ENGRAVED PLASTIC LABEL AT TERMINATION OF EACH AUXILIARY CONDENSATE DRAIN LINE READING AS FOLLOWS:
   "AHU-### AUXILIARY DRAIN LINE."
   "NOTIFY MAINTENANCE PERSONNEL WHEN WATER IS FLOWING"
10. CONNECT CONDENSATE DRAIN PIPING TO AHU IN ACCORDANCE WITH DETAILS.



NORTH PIT FLOOR PLAN
MECHANICAL
1/4" = 1'-0"

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4/21/26

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
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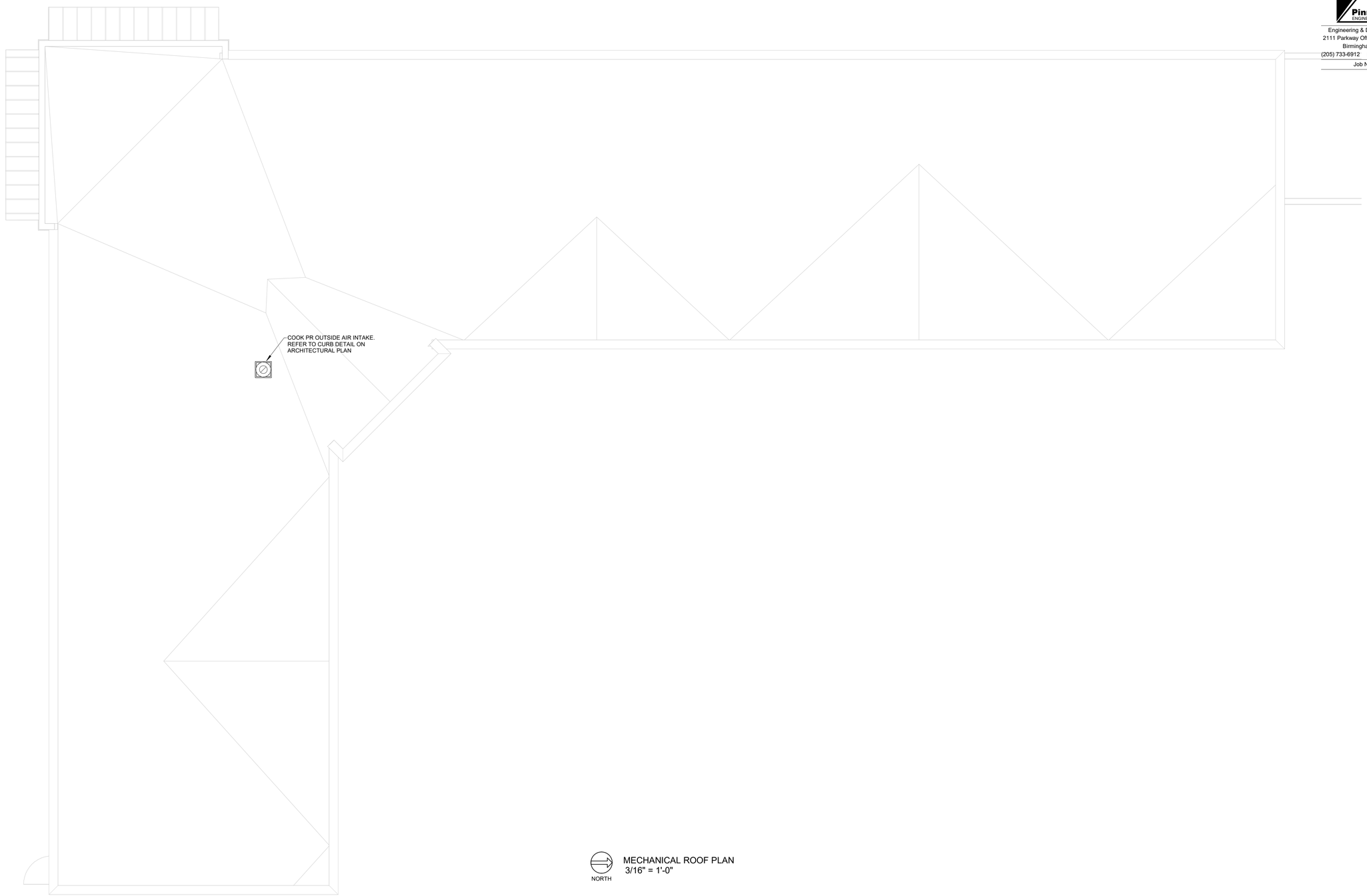
Partial Mechanical Floor Plan - Pit

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

M1.02

Scale As indicated

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NORTH

MECHANICAL ROOF PLAN
3/16" = 1'-0"

GENERAL NOTES:

1. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.

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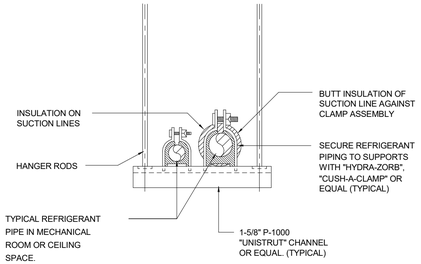
Mechanical Roof Plan

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

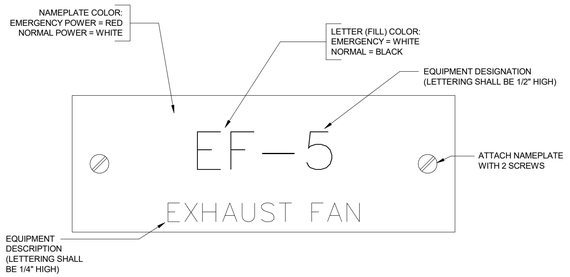
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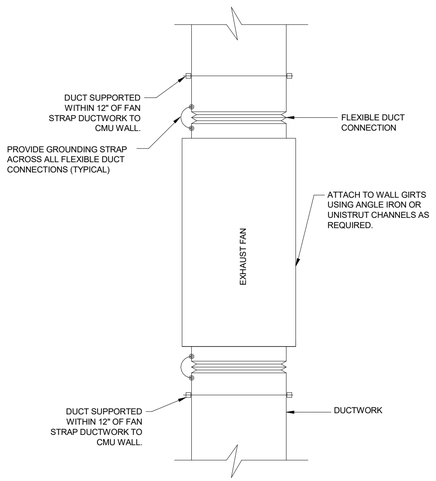
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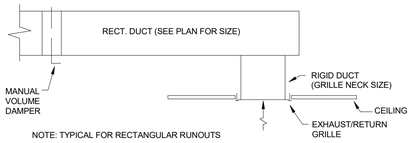
7 M2.01 **REFRIGERANT PIPING SUPPORT DETAIL**
TYPICAL FOR PIPING SUSPENDED FROM STRUCTURE
NO SCALE



8 M2.01 **MECHANICAL EQUIPMENT NAMEPLATE DETAIL**
NO SCALE

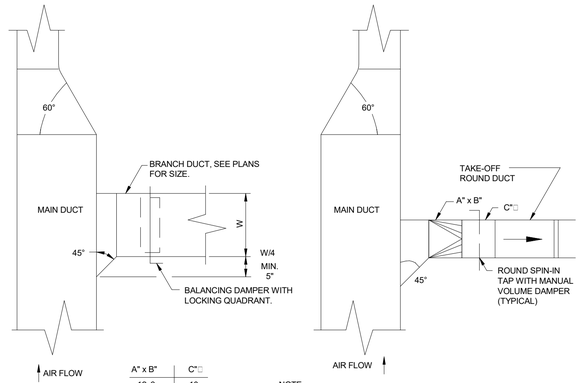


9 M2.01 **INLINE EXHAUST FAN DETAIL**
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NOTE: TYPICAL FOR RECTANGULAR RUNOUTS

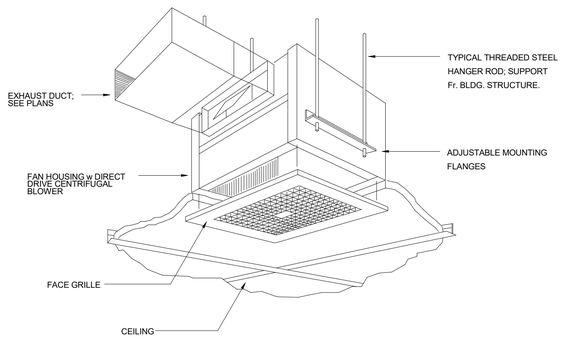
4 M2.01 **TYPICAL RETURN AND EXHAUST RUN-OUT DETAIL**
NO SCALE



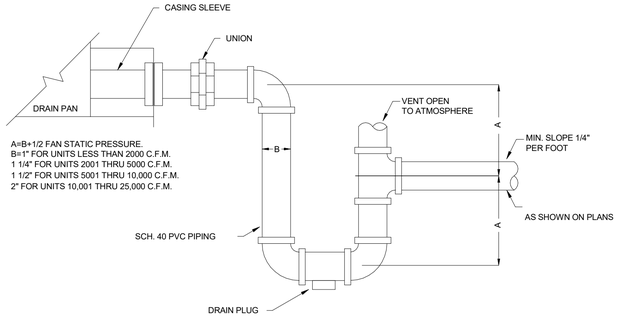
A" x B"	C"□
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12x10	12
16x10	14
22x10	16

NOTE:
USE 45° BRANCH FITTING WHEN MAIN SUPPLY DUCT DEPTH IS EQUAL TO OR SMALLER THAN TAKE-OFF ROUND DUCT SIZE.

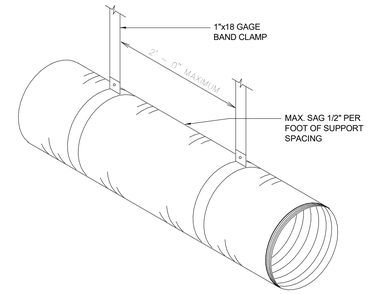
5 M2.01 **TYPICAL DUCT TAKEOFF DETAIL**
NO SCALE



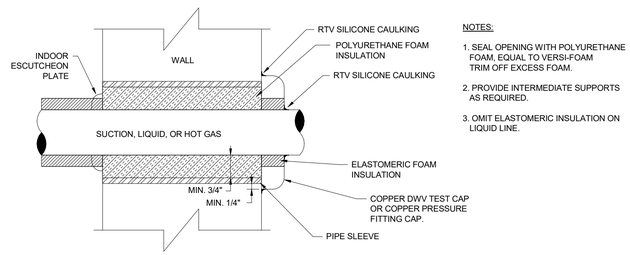
6 M2.01 **EXHAUST FAN INSTALLATION DETAIL(CEILING)**
NO SCALE



1 M2.01 **CONDENSATE DRAIN TRAP DETAIL**
NO SCALE



2 M2.01 **FLEXIBLE DUCT SUPPORT DETAIL**
NO SCALE



NOTES:
1. SEAL OPENING WITH POLYURETHANE FOAM, EQUAL TO VERSI-FOAM TRIM OFF EXCESS FOAM.
2. PROVIDE INTERMEDIATE SUPPORTS AS REQUIRED.
3. OMIT ELASTOMERIC INSULATION ON LIQUID LINE.

3 M2.01 **REFRIGERANT LINE - WALL PENETRATION DETAIL**
NO SCALE

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4/21/26

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issued for Bid	06/15/2026

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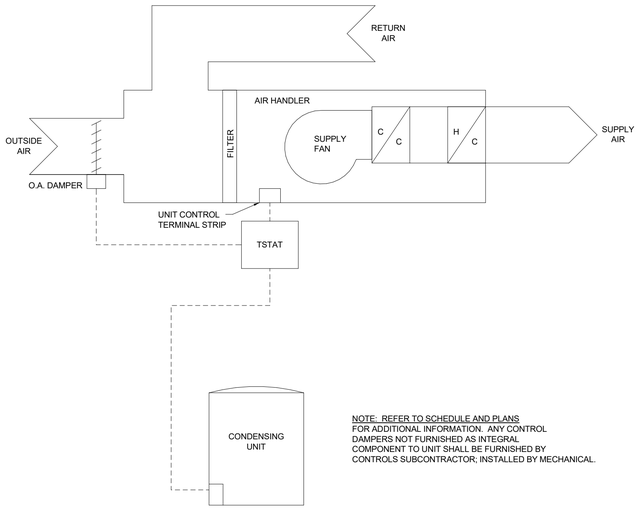
Mechanical Details

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

M2.01

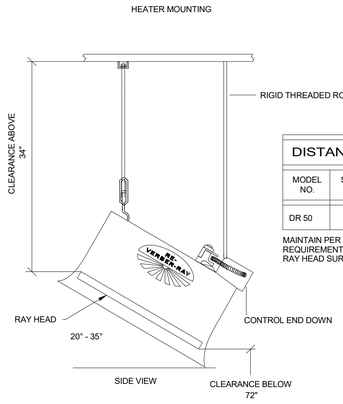
Scale 12" = 1'-0"

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NOTE: REFER TO SCHEDULE AND PLANS
FOR ADDITIONAL INFORMATION. ANY CONTROL DAMPERS NOT FURNISHED AS INTEGRAL COMPONENT TO UNIT SHALL BE FURNISHED BY CONTROLS SUBCONTRACTOR; INSTALLED BY MECHANICAL.

6 / M2.02 **HVAC CONTROL DIAGRAM**
TYPICAL
NO SCALE

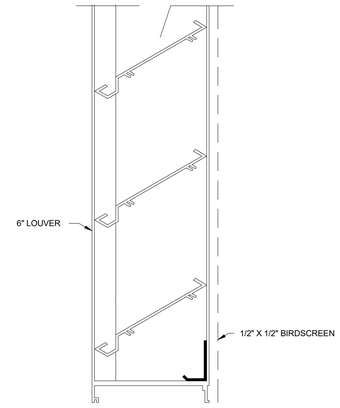


DISTANCE TO COMBUSTIBLES				
MODEL NO.	SIDES	BACK	TOP	BELOW/ FRONT
DR 50	30	18	34	72

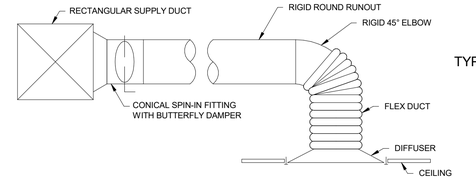
MAINTAIN PER MANUFACTURER'S INSTALLATION REQUIREMENTS. DISTANCES MEASURED ABOVE/BELOW RAY HEAD SURFACE.

MANIFOLD CONTROL BOX MUST BE LOCATED TOWARDS THE LOWER END OF THE HEATER (TOWARDS THE FLOOR).

3 / M2.02 **RADIANT HEATER MOUNTING DETAIL**
NO SCALE

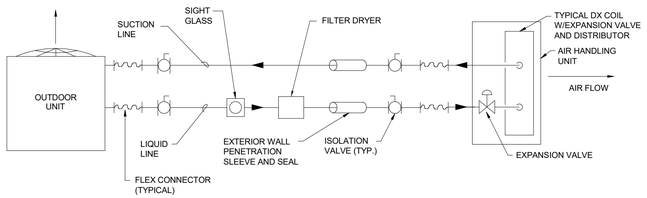


1 / M2.02 **LOUVER DETAIL**
NO SCALE



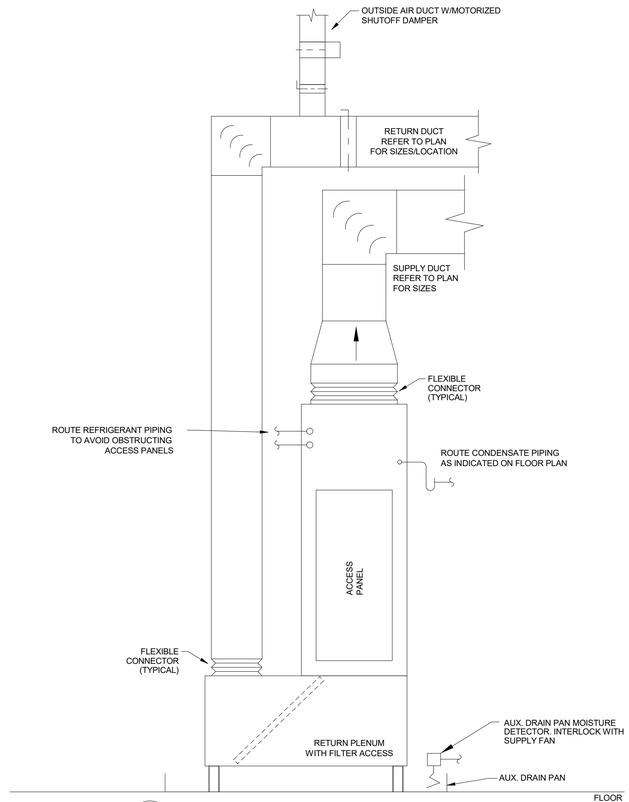
NOTE:
TYPE 2 TAKEOFFS ARE TO BE USED WHEN DEPTH OF MAIN SUPPLY DUCT IS LESS THAN 4" GREATER THAN THE DEPTH OF THE TAKEOFF.

4 / M2.02 **TYPICAL DIFFUSER RUN-OUT DETAIL**
NO SCALE



NOTE: SCHEMATIC IS TYPICAL FOR EACH REFRIGERANT CIRCUIT.

5 / M2.02 **REFRIGERANT PIPING DETAIL**
NO SCALE



2 / M2.02 **AIR HANDLING UNIT DETAIL**
NO SCALE

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PLUMBING LEGEND, SYMBOLS AND ABBREVIATIONS

—— – ——— – ——	DOMESTIC COLD WATER		BALL VALVE
——— – – ———	DOMESTIC HOT WATER		VALVE IN VERTICAL
——— – – – ———	DOMESTIC HOT WATER RETURN		CAP ON END OF PIPE
—— —— —— —— ——	SANITARY VENT	CO	CLEANOUT - FLOOR TYPE
———	SANITARY WASTE	CO	CLEANOUT - WALL TYPE
ABV	ABOVE		P-TRAP
AFF	ABOVE FINISHED FLOOR		PIPE TURNING DOWN
INV	INVERT		PIPE TURNING UP
BFF	BELOW FINISHED FLOOR		TEE DOWN
CW	COLD WATER		TEE UP
DN	DOWN		TIE NEW INTO EXISTING
EX	EXISTING	P-1	PLUMBING FIXTURE NUMBER
HW	HOT WATER	XX	RISER NUMBER
WS	WASTE STACK		WATER HAMMER ARRESTOR
VS	VENT STACK		PLUG TYPE CLEANOUT
AC	ABOVE CEILING		BALANCING VALVE
WHA	WATER HAMMER ARRESTOR		CHECK VALVE
BFG	BELOW FINISHED GRADE		GATE VALVE
TMV	THERMOSTATIC MIXING VALVE		REDUCED PRESSURE ZONE BFP
TP	TRAP PRIMER		THERMOSTATIC MIXING VALVE
DS	DOWNSPOUT		FLOOR SINK
UG	UNDER GROUND		FLOOR DRAIN
			ROOF DRAIN/OVERFLOW DRAIN
		XX	FOOD SERVICE EQUIPMENT

PLUMBING FIXTURE CONNECTION SCHEDULE

EQUIPMENT NO.	DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	REMARKS
WC-1	WATER CLOSET, ADA COMPLIANT	--	1/2"	4"	2"	PRESSURE ASSIST TANK TYPE
EW-1	EYEWASH	1/2"	1/2"	2"	1-1/2"	PROVIDE WITH MIXING VALVE
EWC-1	ELECTRIC WATER COOLER	--	1/2"	2"	1-1/2"	WALL MOUNT ADA WITH BOTTLE FILLER
LAV-1	LAVATORY, ADA COMPLIANT	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED, PROVIDE TRAP WRAP AND MIXING VALVE
SK-1	SERVICE SINK	1/2"	1/2"	2"	1-1/2"	ROUTE TO INTERCEPTOR
WH-1	WALL HYDRANT	--	1/2"	--	--	
FD-1	FLOOR DRAIN	--	--	2"	1-1/2"	PROVIDE TRAP GUARD
CMVB	COFFEE MAKER VALVE BOX	--	1/2"	--	--	--

ELECTRIC WATER HEATER SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	EFF (%)	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	RECOVERY RATE (GPH)	STORAGE CAPACITY (GAL)	TANK DIMENSIONS		ELECTRICAL			REMARKS
								HEIGHT (INCHES)	DIAMETER (INCHES)	HEATING ELEMENTS		VOLTS/PH/HZ	
										WATTAGE	QNTY		
EWH-1	A.O. SMITH ECS-30X	BATHROOMS/EYEWASH	--	60	120	21	30	3'-3"	1'-8"	4.5 KW	1	240 / 1 / 60	

RECIRCULATION PUMP SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	TYPE	FLOW (GPM)	HEAD (FT.)	RPM	ELECTRICAL			REMARKS
							HP	DISCONNECT	VOLTS/PH./HZ.	
REC-1	TACO 2400-10S	HOT WATER RETURN	INLINE	2	10	3450	1/10	BY DIV. 16	120/1/60	1)

REMARKS:
1) PROVIDE AQUASTAT AND TIMER. INSTALL IN ACCORDANCE WITH IECC REQUIREMENTS.
2) PUMP SHALL BE STAINLESS STEEL BODY FOR DOMESTIC USE.

OIL INTERCEPTOR SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	FLOW RATE (GPM)	LIQUID HOLDING CAPACITY (GAL)	CONNECTION SIZES		UNIT DIMENSIONS			REMARKS
				INLET (IN.)	OUTLET (IN.)	LENGTH (IN.)	WIDTH (IN.)	DEPTH (IN.)	
OS-1	STRIEM OS-25	25	21	3	3	2'-3"	1'-11"	1'-3"	1)

REMARKS:
1) PROVIDE EXTENSION TO MATCH GRADE.

WASTE FLOW CALCULATION SUMMARY

	GALLONS PER DAY (GPD)	# OF PEOPLE/ CARS	GPD
PER EMPLOYEE	8	8	64
PER CAR SERVED	8	45	360
		BUILDING TOTAL (GPD)	424

REMARKS:
1) NO CARS WASHED ON SITE.

SANITARY SYSTEM SUMMARY

TOTAL LOAD (FIXTURE UNITS)	GPM
12.5	14

WATER METER SUMMARY

TOTAL LOAD (FIXTURE UNITS)	GPM
16	18

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Plumbing Legend, Abbreviations, and Schedules

Project number	25046
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Checked by	JB

P0.01

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SECTION 15011 - PLUMBING GENERAL

A. PROVIDE EQUIPMENT, LABOR, MATERIAL, ETC., REQUIRED TO MAKE A COMPLETE WORKING INSTALLATION.
B. INSTALL THE WORK IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND THE STANDARDS AND CODES (LATEST EDITION) THAT APPLY TO THIS WORK. IN THE EVENT OF A CONFLICT, INSTALL WORK IN ACCORDANCE WITH THE MOST STRINGENT CODE REQUIREMENTS DETERMINED BY THE ENGINEER.
C. OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS INCLUDING: BUILDING PERMITS, HEALTH DEPARTMENT PERMITS AND SEWER TAP PERMITS. DELIVER TO ENGINEER CERTIFICATES OF INSPECTION AND APPROVAL ISSUED BY AUTHORITIES.
D. ALL EQUIPMENT AND METHOD SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICES AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
E. DISCONNECT, REMOVE AND RE-INSTALL PLUMBING SERVICES LOCATED ON OR CROSSING THROUGH CONTRACT LIMITS, ABOVE OR BELOW GRADE. OBSTRUCTING CONSTRUCTION OF PROJECT OR CONFLICTING WITH COMPLETED PROJECT OR ANY APPLICABLE CODES.
F. PROVIDE CUTTING OF PAVEMENT, SIDEWALKS, DRIVEWAYS, ETC., EXCAVATING, TRENCHING, SHORING AND DE-WATERING. PROVIDE BACKFILL MATERIAL AND PERFORM BACKFILLING.
G. RESTORE SITE TO ORIGINAL CONDITION OR NEW FINAL GRADES. PROVIDE PAVING, CONCRETE, SEED, OR SOD.
H. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WORK CALLED FOR BY ONE IS BINDING AS IF CALLED FOR BY BOTH.
I. DRAWINGS ARE DRAWN TO A SMALL SCALE AND ARE DIAGRAMMATIC ONLY. THE DRAWINGS INDICATE SIZE AND GENERAL ARRANGEMENT OF EQUIPMENT. DO NOT SCALE DRAWINGS FOR EXACT LOCATIONS. FIELD MEASUREMENTS TAKE PRECEDENCE.
J. PROVIDE NECESSARY OFFSETS, ELBOWS AND FITTINGS AS REQUIRED TO AVOID CONFLICT WITH EQUIPMENT OF OTHER DIVISIONS AND TO OBTAIN PROPER HEADROOM AND CLEAR PASSAGEWAYS. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
K. WORK UNDER THIS DIVISION SHALL BE FIRST CLASS WITH EMPHASIS ON NEATNESS AND WORKMANSHIP. INSTALL WORK USING COMPETENT MECHANICS, UNDER SUPERVISION OF FOREMAN, ALL DULY CERTIFIED BY LOCAL AUTHORITIES.
L. INSTALLATION SUBJECT TO ENGINEER'SOBSERVATION, FINAL APPROVAL, AND ACCEPTANCE. ENGINEER MAY REJECT UNSUITABLE WORK.
M. ALL MATERIALS SHALL BE NEW. ALL MATERIALS AND EQUIPMENT FOR WHICH A UL STANDARD, AN AGA APPROVAL, AN AWWA STANDARD, FM LISTING OR ASME REQUIREMENTS IS ESTABLISHED, SHALL BE SO APPROVED AND LABELED OR STAMPED.
N. THE DRAWINGS ARE BASED ON THE USE OF PRODUCTS SPECIFIED AND LISTED FIRST. IF ANY REVISION IN PIPING, CONDUIT WORK, FOUNDATIONS, ANCHOR BOLTS, CONNECTIONS, ETC., IS REQUIRED BY OTHER NAMED PRODUCTS OR APPROVED SUBSTITUTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE SUCH REVISIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
O. SUBMIT SIX (6) ORIGINAL COPIES OF COMPLETE SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT FURNISHED UNDER DIVISION 15 OF SPECIFICATIONS TO ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE DRAWINGS HAVE BEEN CHECKED BY HIM. DRAWING SUBMITTED WITHOUT THIS STAMP OF APPROVAL WILL NOT BE CONSIDERED AND WILL BE RETURNED FOR PROPER RESUBMISSION.
P. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS AND SIZES OF EQUIPMENT. INFORM ENGINEER IN WRITING OF EQUIPMENT DIFFERING FROM THAT SHOWN.
Q. PROVIDE MAINTENANCE AND OPERATING MANUALS BOUND IN 8-1/2" X 11" HARDBACK, THREE-POST BINDERS. MANUALS SHALL CONTAIN WRITTEN INSTRUCTIONS FOR EACH SYSTEM, SHOP DRAWINGS, SCHEMATIC DRAWINGS, EQUIPMENT CATALOG CUTS, MANUFACTURER'S INSTRUCTIONS, MANUFACTURERS WARRANTIES, AND VALVE TAG LIST.
R. PROVIDE AS-BUILT PRINTS AT THE COMPLETION OF JOB. KEEP ONE SET OF PRINTS ON JOB AND RECORD DAY TO DAY CHANGES TO CONTRACT DRAWINGS WITH RED PENCIL. INDICATE ACTUAL LOCATION OF PIPING, VALVES, AND EQUIPMENT. TURN OVER PRINTS TO ENGINEER AT FINAL OBSERVATION.
S. FURNISH ENGINEER WRITTEN WARRANTY, STATING THAT IF WORKMANSHIP AND/OR MATERIALS EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN ONE (1) YEAR AFTER FINAL ACCEPTANCE, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED.

SECTION 15051 - BASIC MATERIALS AND METHODS

A. ACCESS PANELS:
1. ACCESS PANELS SHALL HAVE WELDED STEEL FRAME, ONE PIECE DOORS, AND SELF LATCHING DOOR LOCKS. LOCKS SHALL BE SCREW DRIVER OPERATED WITH CASE HARDENED STEEL CAM. PANELS SHALL BE MILCOR, CESCO, KARP OR EQUAL.
2. PROVIDE ACCESS PANELS IN WALLS AND CEILINGS AS NEEDED TO ALLOW ACCESS TO VALVES, EQUIPMENT, SHOCK ABSORBERS, TRAP PRIMERS, ETC. AND WHERE NOTED.
B. FIRESTOPPING AND SOUNDSTOPPING:
1. PENETRATIONS THROUGH FLOORS AND FIRE RESISTANT WALLS SHALL BE SEALED TO THE RATED FIRE RESISTANCE EQUAL TO THE WALL. INSTALLATION SHALL BE DONE BY A QUALIFIED INSTALLER, APPROVED BY THE MANUFACTURER.
2. PROVIDE SOUND PROOFING THROUGH NON-RATED WALLS.
C. PIPING SEALS:
1. PROVIDE MODULAR, RESILIENT SEALS AROUND PIPES PENETRATING ALL EXTERIOR WALLS, AND FLOORS BELOW GRADE. PIPING SEALS SHALL BE THUNDERLINE CORP. "LINK SEAL" LS SERIES.
D. CUTTING AND PATCHING:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING. CUT WALLS, FLOORS, CEILINGS, PARTITIONS, ETC., REQUIRED FOR THE INSTALLATION OF THIS WORK IN A NEAT AND CAREFUL MANNER. CORE DRILL FOR PIPE SLEEVES AND OTHER OPENINGS THROUGH FLOORS AND WALLS. SAWCUT LARGER OPENINGS. CUTTING SHALL BE PATCHED TO A MINIMUM.
2. REPLACE OR REPAIR DUCTWORK, CONDUIT, PIPING, ETC., THAT IS CUT. PATCH AROUND OPENING CUT BY THIS CONTRACTOR OR PROVIDED BY OTHERS FOR HIM. PATCHING SHALL BE DONE BY AN APPROVED QUALIFIED CONTRACTOR, BUT SHALL BE PAID FOR BY THIS CONTRACTOR. FINISHED PATCHING SHALL RETAIN FIRE AND SMOKE RATINGS OF THE ASSEMBLY AND SHALL MATCH SURROUNDING FINISH.
E. ANCHORS:
1. MOUNT ALL EQUIPMENT, BRACKETS, HANGERS, ANCHORS, ETC. TO SAFELY RESIST THE VIBRATION OR THRUST FORCES AND SUPPORT THE UNIT'S WEIGHT.
2. FLOOR MOUNTED ROTATING OR VIBRATING EQUIPMENT SHALL BE ANCHORED TO THE FLOOR USING GROUTED-IN-PLACE OR CAST-IN-PLACE ANCHOR BOLTS WITH THREE INCH HOOK AND SLEEVE. ANCHOR BOLTS SHALL BE OF THE SIZE RECOMMENDED BY THE MANUFACTURER.
3. FLOOR MOUNTED STATIC ITEMS, WALL AND CEILING MOUNTED EQUIPMENT BRACKET AND HANGERS SHALL BE INSTALLED USING DRILLED ANCHORS ![OR CAST IN PLACE INSERTS]. ANCHORS SHALL BE PHILLIPS DRILL COMPANY "RED HEAD" OR MULTI-SET II. SIZE ANCHORS ![AND INSERTS] FOR FOUR TIMES THE APPLIED LOAD. BOLTS USED OUTDOORS OR IN A WET ENVIRONMENT SHALL BE HOT DIP GALVANIZED.

A. PIPE IDENTIFICATION:
1. IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI-A13.1. PIPE MARKERS SHALL BE SETON'S WEATHER-CODE OR EQUAL.
2. PROVIDE PIPE MARKERS AND DIRECTIONAL ARROWS ON PIPES AT BOTH SIDES OF PARTITIONS AND FLOORS SLABS, AT BRANCH LINE TAKE-OFFS, AT VALVES, AT INTERMEDIATE INTERVALS NOT IN EXCESS OF 20 FT. AND AT CONNECTIONS TO EQUIPMENT.
3. TAPE COLOR BAND IDENTIFYING MARKERS AND ARROWS ON EACH PIPE, BOTH INSULATED AND BARE PIPES. PIPE MARKERS AND ARROWS SHALL BE LOCATED WHERE READILY VISIBLE AND ON LOWER QUADRANTS OF OVERHEAD PIPES.

B. VALVE TAG AND CHART:
1. VALVE TAGS SHALL BE SETON M4506, BLACK FILLED LETTERS WITH BRASS JACK CHAIN. ONE VALVE NUMBER SHALL BE STAMPED ON EACH TAG. IDENTIFY EACH VALVE TAG FOR THE UTILITY IT SERVES, SUCH AS "CW" FOR COLD WATER, HW FOR HOT WATER, ETC. VALVE CHARTS SHALL BE SETON. ATTACH A NUMBERED VALVE TAG TO EACH VALVE.
2. PROVIDE A TYPE WRITTEN CHART IN FRAME UNDER GLASS COVER, GIVING THE FULL LIST OF ALL VALVES INSTALLED UNDER THIS CONTRACT. CHART SHALL LIST VALVE NUMBER, TYPE OF UTILITY, AND LOCATION. MOUNT CHART WHERE DIRECTED BY OWNER. PROVIDE ONE ADDITIONAL COPY TO OWNER.

A. EQUIPMENT IDENTIFICATION:
1. IDENTIFY EACH PIECE OF EQUIPMENT WITH A 1/8 INCH THICK ENGRAVED MELAMINE PLASTIC LAMINATE NAMEPLATE. LETTERS SHALL BE 1/2 INCH HIGH STANDARD STYLE. NAMES, ABBREVIATIONS, AND NUMBERING SHALL AGREE WITH THE CORRESPONDING EQUIPMENT DESIGNATIONS SHOWN ON THE DRAWINGS. USE BLACK LETTERS CUT IN A WHITE BACKGROUND FOR ALL EQUIPMENT ON STANDARD ELECTRICAL POWER.
2. FASTEN NAMEPLATES TO EQUIPMENT IN A CONSPICUOUS LOCATION USING SELF-TAPPING STAINLESS STEEL SCREWS, EXCEPT USE CONTACT EPOXY ADHESIVE WHERE SCREWS CANNOT OR SHOULD NOT PENETRATE SUBSTRATE.

B. PIPE SLEEVES:
1. PROVIDE PIPE SLEEVES WHERE PIPES PASS THROUGH FLOORS AND WALLS ABOVE OR BELOW CEILINGS. PROVIDE PIPE SLEEVES IN NEW WALLS AND FLOORS AS THE WORK PROGRESSES. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELD SPLIT SLEEVES TOGETHER.
2. SIZE PIPE SLEEVES TO ALLOW CONTINUOUS INSULATION, BUT NOT LESS THAN TWO PIPE SIZES LARGER THAN PIPE. SLEEVES IN WALLS SHALL BE FLUSH WITH WALL, SLEEVES IN FLOORS SHALL EXTEND 3/4 INCHES ABOVE FLOOR AND BE FLUSH WITH STRUCTURE BELOW.
3. SLEEVES IN CONCRETE WALLS, FLOORS OR MASONRY SHALL BE SCH 40 STEEL PIPE, MACHINE CUT. SLEEVES IN GYPSUM BOARD OR PLASTER WALLS SHALL BE 14 GAUGE, ROLLED GALVANIZED SHEET METAL TACK WELDED ON THE LONGITUDINAL SEAM.
4. PROVIDE PLATES AROUND PIPES EXTENDING INTO EXPOSED AREAS WHERE THEY PASS THROUGH WALLS, FLOORS AND CEILINGS. SIZE PLATES TO COMPLETELY COVER PIPE SLEEVES. PLATES SHALL BE BEATON AND CADWELL, KEENEY OR GRINNELL, NICKEL PLATED STEEL, SPLIT PLATES WITH SET SCREW. CONCRETE FLOOR PLATE SHALL BE GRINNELL FIGURE 400.

C. FLASHING:
1. PROVIDE FLASHING AT PIPING AND DUCT PENETRATIONS THROUGH ROOF AND ROOF MOUNTED STRUCTURES FURNISHED UNDER THIS DIVISION. FLASH IN ACCORDANCE WITH ROOFING MANUFACTURERS DETAILS. FLASHING MATERIALS SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS SYSTEM.
2. PROVIDE FLASHING AT PIPES PASSING THROUGH FLOORS WITH WATERPROOF MEMBRANE. FLASHING SHALL BE IN ACCORDANCE WITH WATERPROOFING MANUFACTURER'S DETAILS.

SECTION 15261 - PLUMBING INSULATION

A. GENERAL:
1. ALL INSULATION, JACKETING, AND ADHESIVE SHALL HAVE COMPOSITE SURFACE BURNING CHARACTERISTIC RATING AS TESTED BY ASTM E 84, UL 723, OR NFPA 255 NOT EXCEEDING A FLAME SPREAD OF 25 OR SMOKE DEVELOPED OF 50.
2. SUBMITTALS SHALL USE PAGES FROM MIDWEST INSULATION CONTRACTORS ASSOCIATION – "COMMERCIAL AND INDUSTRIAL INSULATION STANDARDS" FOR DEFINING HOW INSULATION MATERIALS WILL BE APPLIED.
3. ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OR FLOOR OPENINGS, OR SLEEVES; EXCEPT WHERE FIRESTOP OR FIRESAFING MATERIALS ARE REQUIRED.
4. INSULATE ITEMS MOUNTED IN PIPING WITH THE SAME THICKNESS OF INSULATION AS SPECIFIED FOR PIPING.
5. REPAIR INSULATION DAMAGED BY WORK UNDER THIS CONTRACT TO MATCH EXISTING WORK OR REPLACE DAMAGED PORTION WITH INSULATION SPECIFIED FOR NEW WORK.

B. DOMESTIC WATER PIPING:
1. INSULATION SHALL BE 850 DEG. F RATED AS MANUFACTURED BY OWENS CORNING, MANVILLE OR KNAUF. ROUTED OR MOLDED FITTING INSULATION SHALL BE HAMFAB.
2. INSULATION SHALL HAVE FACTORY-APPLIED, REINFORCED, FLAME RETARDANT, VAPOR BARRIER JACKET EQUAL TO OWENS-CORNING ASJ WITH SELF-SEALING LAP. BUTT JOINTS SHALL BE TAPED WITH FIELD-APPLIED ASJ TAPE 3 IN. WIDE.
3. INSULATION THICKNESSES SHALL BE IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE FOR PIPE SIZES NOTED ON PLAN. PROVIDE 1" INSULATION ON HOT WATER PIPING IN ACCORDANCE WITH FLORIDA PLUMBING CODE 607.2.1.
4. ALL FITTINGS AND VALVES SHALL BE INSULATED WITH PREFORMED FIBER GLASS FITTINGS OR MITERED SECTIONS OF PIPE INSULATION. INSULATION SHALL BE OF EQUAL THICKNESS TO THE ADJACENT PIPE INSULATION.
5. METAL SHIELDS SHALL BE INSTALLED BETWEEN HANGERS OR SUPPORTS AND THE PIPING INSULATION. RIGID INSULATION INSERTS SHALL BE INSTALLED AS REQUIRED BETWEEN THE PIPE AND THE INSULATION SHIELDS. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJACENT INSULATION AND SHALL BE VAPOR SEALED AS REQUIRED.

C. ELASTOMERIC CLOSED CELL INSULATION:
1. INSULATION SHALL BE RUBATEX OR ARMSTRONG. SECURE INSULATION WITH CONTACT ADHESIVE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. EXPOSED OR EXTERIOR INSTALLATIONS SHALL BE PAINTED WITH TWO COATS OF WATER BASE LATEX ENAMEL.
2. PROVIDE 1 IN. THICK INSULATION ON DX REFRIGERANT PIPING, COOLING COIL CONDENATE PIPING, AND CAPS FOR ALL VALVE STEMS AND OPERATORS, GAUGE COCKS, THERMOMETER WELLS AND OTHER APPURTENANCES SUBJECT TO SWEATING.

D. PIPING FINISHES:
1. METAL JACKETING SHALL BE, SMOOTH .016 IN. THICK, TYPE T 3003 ALUMINUM WITH LAMINATED MOISTURE BARRIER. JACKETING SHALL BE CHILDERS, ALUMINUM ROLL JACKETING WITH POLYKRAFT MOISTURE BARRIER. COVER THE FOLLOWING INSULATED SYSTEMS WITH METAL JACKETING: PIPING INSTALLED OUTDOORS AND EXPOSED PIPING INDOORS WITHIN 8 FT. OF FINISHED FLOOR. METAL FITTING COVERS SHALL BE TWO PIECE ALUMINUM. COVERS SHALL BE ELL-JAC.
2. CONCEALED PIPING FINISH COVERING SHALL BE THE ALL SERVICE JACKET. FITTINGS SHALL BE COVERED BY WRAPPING THE FITTING WITH FIBER REINFORCED TAPE, WITH A 5 PERCENT OVERLAP. FITTING COVERS SHALL BE ONE PIECE 20 MIL PVC. COVERS SHALL BE CEEL-TITE 550 PVC-UVR BY CEEL-CO OR EQUALS.

SECTION 15410 - PLUMBING PIPING

A. THE WORK REQUIRED UNDER THIS SECTION INCLUDES ALL WORK NECESSARY FOR A COMPLETE INSTALLATION OF SANITARY WASTE PIPING, STORM PIPING AND DOMESTIC WATER PIPING INSIDE THE BUILDING TO 5 FEET OUTSIDE THE BUILDING. SUBMIT SCHEDULE OF PIPE AND FITTINGS FOR EACH SERVICE.
B. DOMESTIC WATER PIPING: WATER PIPING WITHIN THE BUILDING SHALL BE COPPER TUBE, TYPE "L" HARD TEMPER, ASTM B-88. PIPING BELOW GROUND SHALL BE COPPER TUBE, TYPE "K" SOFT TEMPER, ASTM B-88. FITTINGS SHALL BE WROUGHT COPPER, SOLDER TYPE, ASTM B-75, ANSI B16.22. SOLDER UNIONS SHALL BE WROT COPPER, WITH COPPER GROUND JOINT. ASTM B75, ANSI B16.22. DI-ELECTRIC, EPSO, 250 LB. WOG. SOLDER METAL SHALL CONFORM TO ASTM B32, LEAD-FREE.
C. STORM, SANITARY WASTE, AND VENT PIPING: ABOVE GROUND: SCHEDULE 40 PVC-DWV ASTM D-2665 USING SOLVENT CEMENT ASTM D2565. HORIZONTAL PIPING FOR FIXTURE ROUGH-INS MAY BE DWV COPPER, ASTM B-306. BELOW GROUND: SCHEDULE 40 PVC-DWV ASTM D-2665 USING SOLVENT CEMENT ASTM D-2564.
D. STORM, SANITARY WASTE AND VENT FITTINGS: ABOVE GROUND: ![NO HUB CAST IRON SOIL PIPE FITTINGS WITH COUPLING ASSEMBLY CISPI STANDARD 310.] SCHEDULE 40 PVC-DWV, ASTM D-2855 USING SOLVENT CEMENT ASTM D-2564. BELOW GROUND: SCHEDULE 40 PVC-DWV, ASTM D-2855 USING SOLVENT CEMENT ASTM D-2564.
E. BALL VALVES: VALVES SHALL BE NIBCO T-585-70, FULL PORT BALL TYPE WITH BRONZE BODY, CHROME PLATED BALL AND BRONZE THREADED ENDS, 600 PSI WOG OR NIBCO S-585-70 IN COPPER LINES. HAMMOND, CRANE, APOLLO, MILWAUKEE, OR APPROVED EQUAL.
F. ALL PIPING SHALL BE ROUTED TO CONSERVE BUILDING SPACE, BE COORDINATED WITH ITEMS INSTALLED BY OTHER TRADES AND NOT INTERFERE WITH ACCESS TO OR OPERATION OF THE FACILITY.
G. PROVIDE ROOF FLASHINGS FOR PIPE PENETRATIONS THROUGH ROOF, TO BE INSTALLED BY ROOFING CONTRACTOR
H. WATER PIPING WITHIN BUILDING SHALL BE SIZE INDICATED ON PLANS AND RISERS. IN THE EVENT NO SIZE IS SHOWN, PIPE SIZE OR SIZE REQUIRED BY THE PLUMBING CODE. PIPING SHALL BE SLOPED TOWARD A SYSTEM DRAIN AND TOWARD OUTLETS, TO PROVIDE FOR SYSTEM DRAIN-DOWN. IF INSTALLED NEAR EXTERIOR WALLS, PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION. INSTALL PIPING TO PREVENT DIRECT CONTACT BETWEEN FERROUS AND NON-FERROUS MATERIALS. ALLOW FLEXIBILITY FOR EXPANSION IN PIPING.
I. DOMESTIC WATER PIPING SYSTEM SHALL BE TESTED WITH POTABLE WATER AT A PRESSURE OF 125 PSIG OR 25 PSIG ABOVE DESIGN WORKING PRESSURE, WHICHEVER IS GREATER FOR 12 HOURS. TEST SHALL BE CONDUCTED WITH PLUMBING INSPECTOR UNLESS APPROVED OTHERWISE IN WRITING.
J. WATER DISTRIBUTION PIPING SHALL BE DISINFECTED PRIOR TO OCCUPANCY OR SYSTEM START-UP WITH A CHLORINE SOLUTION 50 PPM. ALLOW SYSTEM TO STAND FOR SIX HOURS MINIMUM, THEN EXERCISE ALL VALVES TO ENSURE TREATMENT OF ALL BRANCHES AND COMPONENTS. SYSTEM SHALL BE FLUSHED WITH POTABLE WATER AFTER DISINFECTION AND PRIOR TO PLACEMENT INTO SERVICE.
K. STORM, SANITARY WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH WATER AND AIR TESTS AS SPECIFIED IN THE INTERNATIONAL PLUMBING CODE, IN ADDITION TO ANY TESTS REQUIRED BY THE LOCAL PLUMBING OFFICIAL. (10 FEET OF HEAD WITH NO APPARENT LEAKS. HOLD FOR 30 MINUTES MINIMUM). FLUSH ALL GRAVITY PIPING INCLUDING FLOOR DRAINS AND ROOF DRAINS PRIOR TO TURNING OVER TO THE OWNER.
L. ALL PIPE SHALL BE CUT SQUARE. REAM PIPE AND TUBE ENDS AND REMOVE BURRS. CLEAN THE ENDS OF PIPES TO REMOVE OIL, GREASE AND OXIDES. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.
M. ALL SOLDERED PIPING AND EQUIPMENT CONNECTIONS SHALL BE PROPERLY PREPARED IN ACCORDANCE WITH GOOD PIPING PRACTICE. APPLY A THIN LAYER OF FLUX TO ONLY THE MALE TUBING. ROTATE INTO THE FITTING WITH ONE OR TWO REVOLUTIONS.
N. DOMESTIC WATER PIPING: ROUTE PIPING IN ORDERLY MANNER, PLUMB AND PARALLEL TO BUILDING STRUCTURE, AND MAINTAIN GRADIENT. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL. PROVIDE DRAIN VALVES AT LOW POINTS IN SYSTEMS. TEST WATER PIPING BEFORE BEING INSULATED OR CONCEALED IN WALLS OR CEILING.
O. STORM, SANITARY WASTE, AND VENT PIPING: HORIZONTAL SOIL, WASTE AND DRAINAGE LINES WITHIN BUILDING SHALL HAVE A MINIMUM UNIFORM SLOPE OF 1/8 INCH PER FOOT ON 3 INCH AND LARGER, AND 1/4 INCH PER FOOT ON LINES 2 INCH AND SMALLER. TURNS IN SANITARY, SOIL, AND DRAIN PIPING SHALL BE MADE USING 45 DEGREE ELBOWS, WYES, QUARTER, EIGHTH, SIXTEENTH BENDS, OR OTHER BENDS APPROVED BY THE PLUMBING CODE. DO NOT USE SANITARY TEES OR CROSSES EXCEPT WHERE DISCHARGING FROM HORIZONTAL TO VERTICAL. MAKE CHANGES IN PIPE SIZES WITH REDUCING FITTINGS AND RECESSED REDUCERS. DO NOT REDUCE LINE SIZE IN DIRECTION OF FLOW. PROVIDE CLEANOUTS IN ALL HORIZONTAL TURNS IN WASTE PIPING GREATER THAN 45 DEGREES. PROVIDE DEEP SEAL TRAPS ON ALL FLOOR DRAINS, AND TRAP PRIMERS/SEAL WHERE REQUIRED BY CODE OR AS INDICATED ON DRAWINGS. INDIRECT WASTE LINES DUMPING INTO FLOOR OR HUB DRAINS SHALL MAINTAIN A 2-INCH AIR GAP BETWEEN THE END OF THE WASTE LINE AND THE RIM OF THE FLOOR OR HUB DRAIN.

SECTION 15416 - GAS PIPING SYSTEMS

A. PROVIDE COMPLETE INSTALLATION OF GAS PIPING FROM THE "POINT OF DELIVERY" UP TO AND INCLUDING CONNECTION TO ALL GAS-FIRED EQUIPMENT. CONNECT EQUIPMENT ITEMS FURNISHED UNDER OTHER SECTIONS OF SPECIFICATIONS. TEST IN ACCORDANCE WITH A.G.A., STANDARD GAS CODE, N.F.P.A. 54, AND APPLICABLE STATE AND LOCAL CODES.
B. ROUTE GAS SERVICE ENTRANCE PIPING INTO BUILDING TO AVOID INTERFERENCE AND DAMAGE. PROVIDE MANUAL SHUTOFF VALVE, GAS COCK AND GAUGE. VALVES SHALL BE LABELED.
C. PROVIDE ACCESS PANELS FOR VALVES AND OTHER ITEMS REQUIRING MAINTENANCE IN ENCLOSED SPACES. AVOID INSTALLING GAS APPURTENANCES IN ENCLOSED SPACES WHERE POSSIBLE. INSTALL IN ENCLOSED SPACES ONLY AS ALLOWED BY APPLICABLE CODES.
D. SUBMIT MANUFACTURER'S LITERATURE ON ALL MATERIALS AND EQUIPMENT INCLUDING: PIPE, PIPE COATING, ANODES, VALVES, FLEXIBLE CONNECTORS, FITTINGS, REGULATORS, RELIEF VALVES, GAUGES.
E. GAS SERVICE:
1. COORDINATE INSTALLATION OF GAS SERVICE LINE WITH LOCAL GAS COMPANY. PAY ALL FEES.
2. PROVIDE 12 INCH ELEVATED METER MOUNTING PADS ON TOP OF A 4 INCH THICK CONCRETE PAD FOR SUPPORT OF GAS METER AND PIPING.
3. PROVIDE (TWO) 8 INCH DIAMETER PIPE BOLLARDS FOR GAS METER PROTECTION. BOLLARDS SHALL BE SIX FEET LONG (3 FEET BELOW GRADE), MOUNTED IN A 24 INCH DIAMETER HOLE, FILLED WITH 3,000 PSI CONCRETE.
F. INTERIOR PIPING: CONNECT TO ENTERING LINE AND DISTRIBUTE GAS TO EQUIPMENT ITEMS REQUIRING GAS AND AS INDICATED. PERFORM WORK IN ACCORD WITH APPLICABLE A.G.A., N.F.P.A. 54, STATE AND LOCAL CODES. INSTALL GAS STOP VALVES AND DRIP LEGS AT EACH EQUIPMENT ITEM. PIPING SHALL BE ADEQUATELY DRAINED WITH A MINIMUM SLOPE OF 1/4 INCH PER 15 FEET AND DRIP LEGS (FULL SIZE OF PIPE) INSTALLED AT ADDITIONAL POINTS WHERE CONDENSATE MAY COLLECT. INSTALL PRESSURE REDUCING VALVES AS REQUIRED TO PROVIDE PRESSURE WITHIN EQUIPMENT MANUFACTURER'S REQUIREMENTS.
G. EXTERIOR PIPING: EXTERIOR PIPING SHALL BE SCHEDULE 40 CARBON STEEL. PIPING 2 INCH AND SMALLER MAY USE THREADED FITTINGS. PIPING 2 2 INCH AND LARGER SHALL USE WELDED FITTINGS AND FLANGED VALVES. EXTERIOR PIPING SHALL BE COATED WITH AN ALKYD ENAMEL PRIMER (MINIMUM DRY THICKNESS 3 MILS). EXTERIOR PIPING SHALL BE SUPPORTED ON GALVANIZED B-LINE CHANNELS AND PIPE CLAMPS.
H. UNDERGROUND PIPING:
1. UNDERGROUND PIPING SHALL BE CARBON STEEL - A53/A106-WELDED OR POLYETHYLENE. UNDERGROUND STEEL PIPING SHALL HAVE AT LEAST 18 INCH OF PROPER BACKFILL COVER.
2. UNDERGROUND PIPING SHALL BE PROTECTED FROM CORROSION. PROVIDE COATED PIPING AND FITTINGS. REPAIR DAMAGED COATING AT WELDS. INSTALL SACRIFICIAL ANODES ON STEEL PIPING INTERVALS NOT EXCEEDING 100 FT.
3. WHERE PIPES PENETRATE BASEMENT WALLS AND FOUNDATIONS INSTALL THUNDERLINE LINK SEAL.
4. 1. GAS LINES ROUTED UNDER A BUILDING SHALL BE STEEL AND SHALL BE ENCASED IN A SCH 40 OUTER CONDUIT (AT LEAST 3 PIPE SIZES LARGER THAN THE GAS LINE). CONDUIT SHALL BE SEAL WELDED TO THE GAS PIPE INSIDE THE BUILDING. CONDUIT SHALL BE VENTED TO OUTDOORS. CONDUIT SHALL BE PROTECTED FROM CORROSION SIMILARLY TO UNDERGROUND PIPING.

I. PIPE/TUBING:
1. STEEL PIPE: ASTM A53 GRADE A OR B, TYPE F, ERW OR SEAMLESS. SCHEDULE 40.
2. ASTM A106 SEAMLESS. SCHEDULE 40.
3. TUBING (STEEL) ASTM A539.
4. PLASTIC PIPE ASTM D2513 POLYETHYLENE. DRISCO PIPE 6500 OR PRIOR APPROVED EQUAL.

J. FITTINGS:
1. WELDED (STEEL): WELDING FITTINGS SHALL BE CARBON STEEL BUTT WELDING TYPE CONFORMING TO ASTM-234. ELBOWS SHALL BE LONG RADIUS TYPE. WELDING TEES SHALL BE USED ON BRANCH CONNECTIONS EQUAL TO OR GREATER THAN 2 THE DIAMETER OF THE MAIN RUN. FITTINGS SHALL BE LADISH, TUBE-TURN OR WELDBAND. CARBON STEEL REINFORCED BRANCH, WELDING FITTINGS UP TO 3 INCHES, BUT NOT GREATER THAN 2 THE DIAMETER OF THE MAIN RUN MAY BE USED. FITTINGS SHALL BE BONNEY FORGE OR PHOENIX FORGING.
2. THREADED (MALLEABLE, IRON): SCREWED FITTINGS SHALL BE MALLEABLE IRON ASTM A-197 CLASS 150 CONFORMING TO ANSI B16.3. DIMENSIONS CONFORMING TO FEDERAL SPEC WW-P-521. FITTINGS SHALL BE GRINNELL, FLAGG OR STOCKHAM.
3. HEAT FUSION/COMPRESSION (POLYETHYLENE): SOCKET TYPE FUSION SHALL MEET THE REQUIREMENTS OF ASTM 2683. FITTINGS SHALL BE LISTED AND MARKED ASTM D2513. BUTT TYPE FUSION FITTING SHALL MEET THE REQUIREMENTS OF ASTM D3261.

K. UNIONS (DIELECTRIC): CLASS 250 MALLEABLE, SCREWED ASTM A-197.

L. VALVES:
1. 1 INCH AND SMALLER: BALL VALVE - CLASS 125 BRASS FULL PART, 2 PIECE BODY, CHROME PLATED BALL, BLOWOUT PROOF STEAM, TFE SEATS.
2. 2 INCHES AND SMALLER: PLUG COCK - CLASS 125 CAST IRON, SCREWED, FULL PORT AGA LISTED. ANSI B16.33 HOMESTEAD FIGURE 601.
3. 2 2 INCHES AND LARGER: PLUG VALVE - CLASS 125 FLANGED CAST IRON ASTM A126 CONFORMING TO ANSI B16.1.

M. PIPE COATING: X-TRU COAT OR PRIOR APPROVED EQUAL INCLUDING JOINTS AND FITTINGS.
N. PRESSURE REGULATORS: CAST IRON OR ALUMINUM BODY AND SPRING CASE WITH STAINLESS STEEL VALVE STEAM, SEAT RING AND VALVE PLUG, PLATED STEEL SPRINGS, NEOPRENE DIAPHRAGM AND GASKETS AND TFE DISC. REGULATING VALVES SHALL BE SIZED FOR THE FLOW INDICATED AND FOR INLET AND OUTLET PRESSURES INDICATED. OUTLET PRESSURE SHALL BE MAINTAINED UNDER THE DESIGN FLOW CONDITION AND AT NO FLOW. REGULATING VALVES TWO PSI AND BELOW SHALL HAVE LEAK LIMITING DEVICES. REGULATING VALVES OVER TWO PSI SHALL BE VENTED FULL SIZE TO OUTSIDE OF THE BUILDING. OTHER REGULATING VALVES REQUIRING ACCESS TO THE ATMOSPHERE SHALL BE EQUIPPED WITH VENT PIPING LEADING TO OUTSIDE. PROVIDE A PRESSURE RELIEF VALVE IF THE REGULATOR CONNECTION SIZE EXCEEDS TWO-INCHES. REGULATING VALVES SHALL BE FISHER, MAXITROL OR PRIOR APPROVED EQUAL MEETING ANSI Z21.18.
O. PRESSURE GAGE: FOR MEDIUM PRESSURE GAS; 0-5 PSI RANGE. FOR LOW PRESSURE GAS; 0-30 INCH W.C. RANGE. USE LOW PRESSURE TYPE 2-1/2 INCH DIAL PRESSURE GAGE WITH APPROPRIATE RANGE, OCI MODEL CO 34, TRERICE, WEKSLER OR APPROVED EQUAL.

SECTION 15430 - PLUMBING SPECIALTIES

A. THIS SPECIFICATION DESCRIBES THE REQUIREMENTS FOR LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF PLUMBING SPECIALTIES INCLUDED AS PART OF THE BUILDING PLUMBING SYSTEM.

B. MANUFACTURER'S LITERATURE INDICATING MODEL NUMBERS AND OPTIONS SHALL BE SUBMITTED FOR ALL FIXTURES AND EQUIPMENT. FORMAT SHALL INCLUDE A SCHEDULE OF THE SPECIALTIES SUBMITTED AND INCLUDE IDENTIFICATION NUMBER OF EACH ITEM, SUCH AS "FD-1 FLOOR DRAIN," A LIST OF EACH COMPONENT, ACCESSORY, AND OPTION OF THE ITEM BEING SUBMITTED. THIS SCHEDULE MUST BE INCLUDED IN THE FRONT OF THE SUBMITTAL PAGE.

C. CLEANOUTS SHALL CONSIST OF A COATED CAST IRON BODY WITH THREADED TOP WITH SPIGOT OR NO-HUB CONNECTION AND GASKETED BRONZE CLOSURE PLUG WITH COUNTERSUNK SLOT. HEAD SHALL BE ADJUSTABLE IN HEIGHT, PROVIDE NON-SKID COVERS FOR FLOOR CLEANOUTS. PROVIDE THREAD SHIELD TO PROTECT ADJUSTMENT THREADS FROM CONCRETE AS REQUIRED. CLEANOUTS SHALL BE INSTALLED IN HORIZONTAL RUNS AT SPACING OF NO MORE THAN 75 FEET. INSTALL CLEANOUTS AT THE BASE OF EVERY SOIL AND WASTE STACK, AND AT EACH 90 DEGREE CHANGE IN DIRECTION. INSTALL CLEANOUTS WHICH ARE NOT EASILY ACCESSIBLE UP THROUGH FLOOR OR WALL AND PROVIDE APPLICABLE COVERS. INSTALL CLEANOUTS TO ALLOW AT LEAST 18" FOR RODDING.

D. WATER HAMMER ARRESTERS SHALL BE CONSTRUCTED OF A STAINLESS STEEL OR COPPER SHELL, STAINLESS STEEL OR ELASTOMER BELLOWS, WITH PRECHARGE OF AIR, NITROGEN, OR ARGON. ARRESTERS SHALL CONFORM TO ASSE STD. 1010, AND SHALL BE ZURN "SHOKTROL", JOSAM "ABSORBOTRON", WADE "SHOCKTOP", OR PRECISION PLUMBING PRODUCTS "SHOCK ARRESTOR". UNIT SHALL BE SIZED IN ACCORDANCE WITH TO PDI STANDARDS. WATER HAMMER ARRESTORS SHALL BE SIZED TO ACTUAL PIPE SIZE AND INSTALLED AS NEAR THE SHOCK SOURCE AS PRACTICAL. INSTALL TO ALLOW UNOBSTRUCTED PATH FROM SHOCK SOURCE TO ARRESTOR.

E. BALANCING VALVES (DOMESTIC HOT WATER RETURN): VALVES SHALL BE BELL AND GOSSETT CB SERIES CIRCUIT SETTER. PRESETTABLE BALANCE VALVE, VARIABLE ORIFICE FLOW METER AND POSITIVE SHUT-OFF SERVICE VALVE. EQUIPMENT WITH CAPPED READOUT VALVES FITTED WITH INTERNAL CHECK VALVES, ¼ INCH NPT TAPPED AND PLUGGED DRAIN PORT. BRONZE BODY/BRASS BALL CONSTRUCTION WITH GLASS AND CARBON FILLED TFE SEAT RINGS, SOLDER CONNECTIONS. VALVES TO HAVE DIFFERENTIAL PRESSURE READ-OUT PORTS ACROSS VALVE SEAT AREA. FURNISH WITH PREFORMED INSULATION TO PERMIT ACCESS FOR BALANCE AND READ-OUT. TACO IS AN APPROVED EQUAL.

F. PRESSURE REDUCING VALVES: VALVES SHALL BE EQUAL TO WATTS SERIES U5B-GG BRONZE BODY SINGLE SEATED WITH COMPOSITION DIAPHRAGM AND STAINLESS STEEL SPRING, DIRECT ACTING WITH STRAINER ON INLET SIDE, INTEGRAL BY-PASS CHECK VALVE, GAUGE, AND THREADED ENDS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

G. TRAP GUARD SEALS: PROVIDE AN ELASTOMERIC, NORMALLY CLOSED TRAP GUARD DEVICE TO PREVENT EVAPORATION OF THE TRAP SEAL AND TO PROTECT AGAINST SEWER GASES FROM BACKING UP INTO HABITABLE AREAS. DEVICE SHALL OPEN WITH FLUID AND ALLOWS LIQUID DRAINAGE TO FLOW THROUGH INTO THE BUILDING DRAIN. TRAP SEAL SHALL BE TRAP GUARD BY PRO-VENT SYSTEMS OR APPROVED EQUAL.

H. ROOF DRAINS (RD): DRAIN SHALL CONSIST OF COATED CAST IRON BODY WITH NON-PUNCTURING FLUSHING CLAMP WITH INTEGRAL GRAVEL STOP AND DECK CLAMP. DRAIN SHALL HAVE AN ADJUSTABLE EXTENSION TO PLACE FLASHING CLAMP ABOVE INSULATION WHILE BODY RESTS ON THE ROOF STRUCTURE. PROVIDE WITH ALUMINUM ROOF DOME. PROVIDE 1710 EXPANSION JOINT IF PIPING IS NOT OFFSET BELOW THE ROOF. DRAIN SHALL BE JAY R. SMITH 1015Y-R-C-AD OR EQUAL BY WADE, JOSAM, OR ZURN. ROOF DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COORDINATE THE WORK WITH ROOF DECK AND ROOFING CONTRACTOR TO INSURE PROPER AND TIMELY INSTALLATION.

I. OVERFLOW DRAINS (OD): DRAIN SHALL CONSIST OF COATED CAST IRON BODY WITH NON-PUNCTURING FLASHING CLAMP, TWO (2) INCH WATER DAM, AND DECK CLAMP. PROVIDE ALUMINUM ROOF DOME. PROVIDE 1710 EXPANSION JOINT IF PIPING IS NOT OFFSET BELOW ROOF. DRAIN SHALL BE J.R. SMITH 1080Y-R-C-AD OR EQUAL BY WADE, JOSAM, OR ZURN. OVERFLOW DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COORDINATE THE WORK WITH ROOF DECK AND ROOFING CONTRACTOR TO INSURE PROPER AND TIMELY INSTALLATION.

J. DOWNSPOUT NOZZLES: WALL MOUNTED OUTLET NOZZLE FOR STORM DRAINAGE, PLAIN BRONZE BODY, DECORATION FACE OF WALL AND FLANGE, WITH SCREEN AND THREADED CONNECTOR. UNITS SHALL BE JAY R SMITH 1770-BS OR EQUAL BY ZURN, WADE, OR JOSAM.

K. FLOOR DRAINS (FD-1): DRAIN SHALL INCLUDE COATED CAST IRON BODY WITH BOTTOM OUTLET, ½" TRAP PRIMER CONNECTION, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TYPE "B" ROUND POLISHED NICKEL-BRONZE LIGHT DUTY STRAINER TOP WITH SQUARE HEELPROOF OPENINGS AND SECURED GRATE. DRAIN SHALL BE ZURN ZN-415-P-NH OR EQUAL BY JAY R. SMITH, WADE, OR JOSAM. PROVIDE 3 FT. SQ., 6 MIL BUTYL MEMBRANE, AT EACH FLOOR DRAIN. CLAMP MEMBRANE. MEMBRANE SHALL BE RECESSED IN THE FLOOR SLAB WITH TOPPING POURED OVER IT. DRAINS INSTALLED IN ELEVATED BUILDING FLOORS SHALL BE SEALED IN SUCH A MANNER AS TO PREVENT LEAKAGE OF WATER AROUND TRAP AND BODY TO CEILING BELOW.

L. FLOOR DRAIN (FD-2): DRAIN SHALL INCLUDE SUR-SET BUCKET, 9" DIAMETER MEDIUM DUTY CAST IRON GRATE, COATED CAST IRON BODY, ½" TRAP PRIMER CONNECTION, BOTTOM OUTLET, SEEPAGE PAN, AND COMBINATION MEMBRANE CLAMP. DRAIN SHALL BE ZURN Z-554-P-NH OR EQUAL BY JAY R. SMITH, WADE, OR JOSAM. PROVIDE 3 FT. SQ., 6 MIL BUTYL MEMBRANE, AT EACH FLOOR DRAIN. CLAMP MEMBRANE. MEMBRANE SHALL BE RECESSED IN THE FLOOR SLAB WITH TOPPING POURED OVER IT. DRAINS INSTALLED IN ELEVATED BUILDING FLOORS SHALL BE SEALED IN SUCH A MANNER AS TO PREVENT LEAKAGE OF WATER AROUND TRAP AND BODY TO CEILING BELOW.

M. HUB DRAIN (HD): DRAIN SHALL INCLUDE CAST IRON DEEP SEAL "P" TRAP WITH INDIRECT WASTE FUNNEL INLET AND SIDE OUTLET THREADED, AND WITH ½ INCH THREADED FLUSH CONNECTION. DRAIN SHALL BE JOSAM 8821-051 OR EQUAL BY ZURN, JAY R. SMITH, OR WADE.

N. WALL HYDRANTS (WH-1): WALL HYDRANTS SHALL BE NICKEL BRONZE PLATED, INTEGRAL VACUUM BREAKER, 3/4 INCH HOSE THREAD, KEY OPERATOR, NON-FREEZE TYPE, HOUSED IN A RECESSED STAINLESS STEEL BOX WITH HINGED LOCKING COVER. HYDRANT SHALL BE JAY R. SMITH 5509 QT OR EQUAL BY WADE, JOSAM OR ZURN. INSTALL WALL HYDRANTS AS INDICATED ON DRAWINGS, MINIMUM HEIGHT 18" A.F.F. UNLESS OTHERWISE INDICATED.

O. HOSE BIBB (HB-1): CHROME PLATED, ¾ INCH HOSE THREAD OUTLET, LOCK SHIELD CAP WITH INTEGRAL VACUUM BREAKER. CHICAGO FAUCET NO. 952 OR T&S BRASS.

P. THERMOSTATIC MIXING VALVES: MIXING VALVE SHALL BE THERMOSTATIC TYPE WITH LIQUID FILLED MOTOR AND LEAD-FREE BRONZE BODY CONSTRUCTION WITH REPLACEABLE CORROSION RESISTANT COMPONENTS. VALVE CONSTRUCTION SHALL BE SLIDING PISTON CONTROL MECHANISM. PISTON AND LINER SHALL BE OF STAINLESS STEEL MATERIAL. VALVES SHALL BE EQUIPPED WITH REMOVABLE UNION END STOP AND CHECK INLETS WITH STAINLESS STEEL STRAINERS. VALVE SHALL PROVIDE PROTECTION FROM HOT AND COLD SUPPLY LINE FAILURE AND THERMOSTAT FAILURE. PROVIDE WITH DIAL THERMOMETER AND SHUT OFF VALVE ON TEMPERED WATER OUTLET. MIXING VALVE SHALL BE LAWLER 800 SERIES OR EQUAL BY HOLBY, SYMMONS, LEONARD, OR WATTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

Q. OIL SEPARATOR: STRIEM HIGH EFFICIENCY OIL/WATER SEPARATOR MODEL OS-25 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 COVER TO GRADE. SEPARATOR FLOW RATE SHALL BE 25 GPM. SEPARATOR LIQUID HOLDING CAPACITY SHALL BE 21 GALLONS AND OIL CAPACITY SHALL BE 5.25 GALLONS. SOLIDS CAPACITY SHALL BE 6 GALLONS. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE A MAXIMUM 450 LBS. LOAD CAPACITY WHEN UNIT IS INSTALLED ABOVE-GRADE, AND 2,500 LBS. WHEN BURIED WITH SR16 RISER.

SECTION 15440 - PLUMBING FIXTURES

A. THIS SPECIFICATION DESCRIBES THE REQUIREMENTS FOR PLUMBING FIXTURES AND THEIR INSTALLATION.

B. SUBMITTALS SHALL INCLUDE MANUFACTURER'S DATA SHEETS AND DIMENSIONAL INFORMATION ON ALL FIXTURES AND ACCESSORIES. FORMAT SHALL INCLUDE A SCHEDULE OF THE FIXTURES SUBMITTED AND INCLUDE IDENTIFICATION NUMBER OF EACH ITEM, SUCH AS "P-1 WATER CLOSET", AND LIST OF EACH COMPONENT AND ACCESSORY OF THE FIXTURE, INCLUDING MANUFACTURER'S MODEL NUMBER. THIS SCHEDULE MUST BE INCLUDED IN THE FRONT OF THE SUBMITTAL BOOKLET.

C. VITREOUS WARE SHALL BE WHITE, REGULAR SECTION, OF WEIGHT REQUIRED, FREE FROM CRACKS, FLAWS, BLISTERS, CRAZES OR OTHER DEFECTS. PROVIDE WITH MOUNTING BRACKETS FOR WALL MOUNTED FIXTURES UNLESS FLOOR CARRIERS ARE INDICATED.

D. STAINLESS STEEL SHALL HAVE MACHINE GROUND FINISH. DECKS AND SINK COMPARTMENT SIDES SHALL BE BUFFED. EXPOSED SURFACES SHALL HAVE NO. 4 SATIN FINISH. INTERIOR SURFACES SHALL BE DEADENED. EXPOSED METAL PARTS SHALL BE CHROMIUM PLATED AND PROTECTED DURING CONSTRUCTION BY A COAT OF GREASE.

E. WATER CLOSET AND URINAL CARRIERS SHALL HAVE TAPERED THREAD FACE PLATE, PLASTIC COUPLING WITH TEST CAP, AND NEOPRENE RUBBER GASKET. LAVATORY, SINK AND URINAL CARRIERS SHALL HAVE RECTANGULAR STRUCTURAL STEEL UPRIGHTS. CARRIERS SHALL HAVE NECESSARY ACCESSORIES FOR PROPER INSTALLATION. CARRIERS SHALL BE ACCORDING TO ANSI A112.6.1M.

F. WATER CLOSETS AND URINALS SHALL HAVE BOLT CAPS.

G. SEATS SHALL BE WHITE, SOLID PLASTIC, WITH INTERNAL CHECK AND MOLDED STAINLESS STEEL HINGE WITHOUT VISIBLE METAL PARTS, EXCEPT AS HEREINAFTER SPECIFIED.

H. CHROMIUM PLATED TRAPS SHALL BE BRASS WITH CHROMIUM PLATED NIPPLE TO WALL AND ESCUTCHEON.

I. FITTINGS AND ACCESSORIES SPECIFIED DESIGNATE TYPE ONLY; PROVIDE MODIFICATIONS TO MAKE FITTINGS WORK PROPERLY WITH FIXTURE AND PIPING. PROVIDE NECESSARY TAILPIECE AND SHANKS.

J. INSTALL EYEWASH STATION WITHIN 10 FEET OF HAZARD AREA, COMPLETELY UNOBSTRUCTED FROM VIEW OR ACCESS. ANCHOR TO FLOOR IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE AND INSTALL STRAINER AT DOMESTIC WATER INLET TO STATION. PROVIDE AND INSTALL ON WALL ABOVE STATION, A PLASTIC ENGRAVED SIGN READING "EMERGENCY USE ONLY". WHITE LETTERS ON RED BACKGROUND. PROVIDE MINIMUM 5 GALLON CONTAINER AND PROVIDE TIMED FLOW TEST FOR ALL EYEWASHES AND EMERGENCY SHOWERS. SUBMIT REPORT TO ARCHITECT OR ENGINEER PRIOR TO FINAL INSPECTION.

K. FIXTURES

WC-1 WATER CLOSET (17-1/2" HIGH, FLOOR MOUNT, TANK TYPE):
1. KOHLER K-43979 VITREOUS CHINA, 1.6 GALLON FLUSH; CLOSE COUPLED TANK WITH ELONGATED BOWL.
2. KOHLER K-7637 3/8" POLISHED CHROME ANGLE SUPPLY WITH STOP.
3. BENEKE 527SS ELONGATED SELF-SUSTAINING WITH CHECK HINGES, OPEN FRONT, HEAVY DUTY SOLID PLASTIC SEAT.

LAV-1 LAVATORY (ADA COMPLIANT, WALL HUNG):
1. AMERICAN STANDARD DECLYN WALL-HUNG LAVATORY, VITREOUS CHINA, WITH OVER FLOW AND 4" FAUCET CENTERS, DRILLED FOR CONCEALED ARM CARRIER.
2. ZURN Z-7443-VP SINGLE CONTROL FAUCET, LEVER HANDLE, 4" CENTER MOUNT, 1-1/4" GRID STRAINER.
3. MCGUIRE 170 1/2" X 3/8" SWEAT LAVATORY SUPPLIES WITH WHEEL HANDLE STOPS.
4. MCGUIRE 8902, 1-1/4 INCH X 1-1/2 INCH P-TRAP WITH ESCUTCHEON; ZURN GH, 1-1/4" OFFSET HANDICAP GRID DRAIN.
5. TRAP AND SUPPLIES COVERED WITH TRAP WRAP EQUAL TO BROCHAR INDUSTRIES.
6. ZURN Z-1231 LAVATORY CONCEALED ARM CARRIER.

EW-1 EYE/FACE WASH (PEDESTAL MOUNT):
1. STAINLESS STEEL BOWL WITH TWIN EYEWASH HEADS WITH FLIP TOP COVERS, CHROME PLATED WATER EYEWASH ASSEMBLY.
2. INCLUDE UNIVERSAL EMERGENCY SIGN CONFORMING TO ANSI Z535.1.
3. INCLUDE MIXING VALVE/TEMPERED WATER BLENDING SYSTEM.
4. EQUAL TO GUARDIAN G1825. CONFORM TO ANSI Z358.1.

EWC-1 WATER COOLER (WALL MOUNT, BOTTLE FILLING STATION, ADA):
1. ELKAY LZSTL8WSVRSK. HANDS FREE, ADA COMPLIANT DUAL STATION WITH BOTTLE FILLING STATION.
2. MCGUIRE 8902 P-TRAP WITH ESCUTCHEON.
3. MCGUIRE 170 STOP AND SUPPLY.

SK-1 LAUNDRY TUB (SINGLE COMPARTMENT):
1. FIAT MODEL NO. FL-1 SINGLE MOLDED STONE LAUNDRY TUB WITH FREE DRAINING SOAP TRAY ON BACK LEDGE. INCLUDE FOUR WHITE BAKED ENAMEL ANGLE LEGS THAT SLIP INTO MOLDED SOCKETS. SELF-LEVELING LEGS WITH FLOOR ANCHORS.
2. FIAT MODEL A-1 BRASS FAUCET WITH SWING SPOUT.
3. MCGUIRE 170 1/2" X 3/8" LAVATORY SUPPLIES WITH WHEEL HANDLE STOPS.
4. MCGUIRE #150 TRAY PLUG WITH RUBBER STOPPER (1-1/2").
5. MCGUIRE #8912 1-1/2" X 1-1/2", 17 GAUGE BRASS P-TRAP.

CMVB COFFEE MAKER VALVE BOX:
1. GUY GRAY MODEL BIM 875.
2. 1/2" FIP X 1/4" O.D. OUTLET COMPRESSION ANGLE VALVE.
3. BOX IS 16 GUAGE STEEL WITH EPOXY FINISH.

L. ACCEPTABLE MANUFACTURERS: FIXTURES, VITREOUS CHINA - AMERICAN STANDARD, CRANE, ELJER, KOHLER FIXTURES, STAINLESS STEEL - JUST, ELKAY FLUSH VALVES - SLOAN, DELANEY, ZURN TOILET SEATS - OLSONITE, SPERZEL, CHURCH, BENEKE, BEMIS FAUCETS - T&S BRASS, SPEAKMAN, CHICAGO, SYMMONS, ELJER TERRAZZO - FIAT, CUTLER, FLORESTONE, STERN-WILLIAMS TRIM, CHROMED BRASS - MCGUIRE, SANITARY DASH, BRIDGEPORT SHOWER MIXING VALVES - POWERS, LEONARD, LAWLER, SYMMONS, SPEAKMAN, ZURN SHOWER HEADS - SYMMONS, SPEAKMAN, ZURN ELECTRIC WATER COOLERS - ELKAY, HALSEY TAYLOR, SUNROC, OASIS, HAWS. USE ONLY WATER COOLERS WHICH DO NOT USE CFC'S FOR REFRIGERATION. SCRUB SINKS - ELJER, AMERICAN STANDARD, KOHLER, CRANE CARRIERS - J. R. SMITH, JOSAM, ZURN, WADE EMERGENCY EQUIPMENT - GUARDIAN, HAWS, WESTERN, SPEAKMAN

M. INSTALL PLUMBING FIXTURE LEVEL AND PLUMB, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S PUBLISHED LITERATURE, ROUGH-IN DRAWINGS, CODES REGULATIONS, AND REFERENCE STANDARDS. FASTEN PLUMBING FIXTURES SECURELY TO SUPPORTS OR BUILDING STRUCTURE. RIGIDLY SUPPORT WATER SUPPLIES BEHIND OR WITHIN WALL CONSTRUCTION. PROVIDE STOP VALVE IN THE WATER SUPPLY TO EACH FIXTURE IN AN ACCESSIBLE LOCATION. CONNECT WALL HUNG URINALS TO WASTE PIPING WITH RED BRASS NIPPLES. CONNECT FIXTURES TO WATER SUPPLY WITH COPPER OR BRASS (NO STEEL). EACH FIXTURE, FLOOR DRAIN AND PIECE OF EQUIPMENT REQUIRING CONNECTION TO DRAINAGE SYSTEM TO HAVE SEPARATE TRAPS INSTALLED AS CLOSE TO FIXTURE AS POSSIBLE. PROVIDE IRON OR STEEL BACKING FOR ALL WALL MOUNTED FIXTURES (OR WOOD BACKING ONLY IF BUILDING STRUCTURE IS WOOD). PROVIDE ESCUTCHEONS AT EACH WALL, FLOOR AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. APPLY SCP3154 PRIMER AND GENERAL ELECTRIC CO.'S NO. 1702 SILICONE SANITARY SEALANT AROUND PLUMBING FIXTURES TO CONCEAL VOIDS AT WALL AND CONTACT POINTS OF FIXTURE AFTER WALLS HAVE BEEN PAINTED. APPLY SCP3154 PRIMER AND GENERAL ELECTRIC CO.'S SILPRUF SEALANT ON PLAIN CONCRETE WALLS.

SECTION 15450 - PLUMBING EQUIPMENT

A. ELECTRIC WATER HEATERS:
1. WATER HEATER SHALL COMPLY WITH UL 1453.
2. STORAGE TANK CONSTRUCTION: ASME-CODE STEEL WITH 150 PSIG WORKING-PRESSURE RATING. STEEL JACKET WITH ENAMELED FINISH.
3. TAPPINGS: FACTORY FABRICATED OF MATERIALS COMPATIBLE WITH TANK FOR PIPING CONNECTIONS, RELIEF VALVE, PRESSURE GAGE, THERMOMETER, DRAIN, ANODE RODS, AND CONTROLS AS REQUIRED. ATTACH TAPPINGS TO TANK SHELL BEFORE TESTING AND LABELING. TAPPINGS SHALL HAVE THREADED ENDS ACCORDING TO ASME B1.20.1, PIPE THREADS.
4. INTERIOR FINISH: MATERIALS AND THICKNESSES COMPLYING WITH NSF 61, BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS. EXTEND FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
5. INSULATION: COMPLY WITH ASHRAE 90.1. SURROUND ENTIRE STORAGE TANK EXCEPT CONNECTIONS AND CONTROLS.
6. HEATING ELEMENTS: ELECTRIC, SCREW-IN OR BOLT-ON, IMMERSION TYPE. STAGING AS NOTED IN SCHEDULE.
7. TEMPERATURE CONTROL: ADJUSTABLE IMMERSION THERMOSTAT.
8. SAFETY CONTROLS: AUTOMATIC, HIGH-TEMPERATURE-LIMIT AND LOW-WATER CUTOFF DEVICES OR SYSTEMS.
9. DRAIN VALVE: ASSE 1005, CORROSION-RESISTANT METAL, FACTORY INSTALLED.
10. ANODE RODS: FACTORY INSTALLED, MAGNESIUM.
11. DIP TUBE: FACTORY INSTALLED. NOT REQUIRED IF COLD-WATER INLET IS NEAR BOTTOM OF STORAGE TANK.
12. SPECIAL REQUIREMENT: NSF 5 CONSTRUCTION.
13. ACCEPTABLE MANUFACTURERS ARE LOCHINVAR, A. O. SMITH, OR PRIOR APPROVAL EQUAL.

B. THERMAL EXPANSION TANK (DOMESTIC WATER):
1. PRE-CHARGED HYDROPNEUMATIC STEEL EXPANSION TANK, CONSTRUCTED IN ACCORDANCE WITH SECTION VIII OF ASME BOILER AND PRESSURE CODE, WITH ALL WELDS CONFORMING TO ASME SECTION IX. TANK MUST BE STAMPED WITH A MAXIMUM WORKING PRESSURE OF 125 PSI, AND A MAXIMUM WORKING TEMPERATURE OF 200 DEGREES F. ALL INTERNAL WETTED PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVALS. AN INTERNAL BUTYL DIAPHRAGM WILL BE USED TO ISOLATE AIR FROM WATER. AMTROL OR APPROVED EQUAL AST SERIES.

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Express Oil Change & Tire Engineers

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Ocean Springs, Mississippi

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No.	Description	Date
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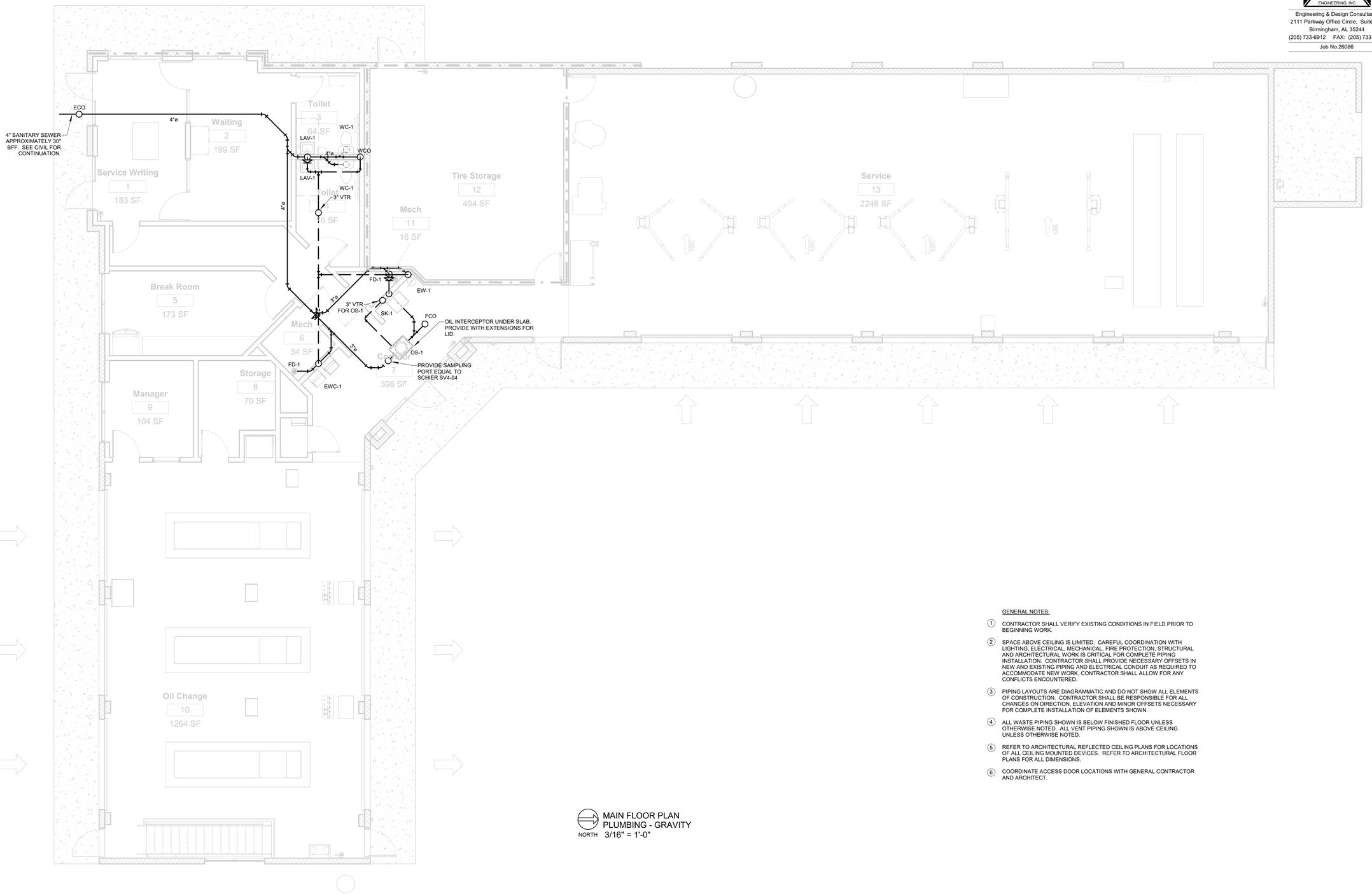
Plumbing Specifications

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

P0.03

Scale 12" = 1'-0"

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MAIN FLOOR PLAN
PLUMBING - GRAVITY
NORTH 3/16" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
2. SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
3. PIPING LAYOUTS ARE DIAGRAMMATIC AND DO NOT SHOW ALL ELEMENTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES ON DIRECTION, ELEVATION AND MINOR OFFSETS NECESSARY FOR COMPLETE INSTALLATION OF ELEMENTS SHOWN.
4. ALL WASTE PIPING SHOWN IS BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL VENT PIPING SHOWN IS ABOVE CEILING UNLESS OTHERWISE NOTED.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL FLOOR PLANS FOR ALL DIMENSIONS.
6. COORDINATE ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT.

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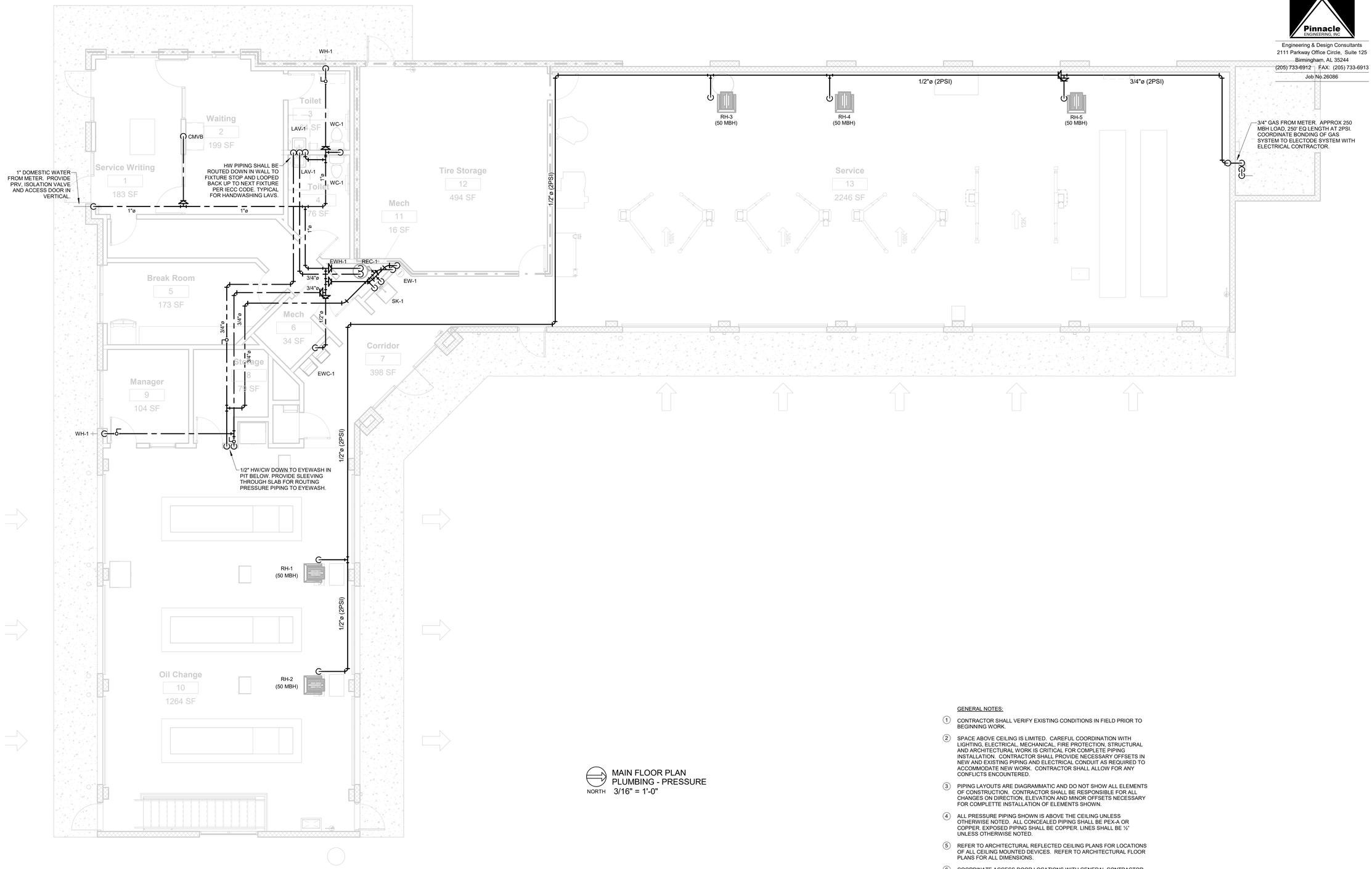
Plumbing Floor Plan Gravity

Project number	25046
Date	TBD
Drawn by	CA
Checked by	JB

P1.01

Scale As indicated

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MAIN FLOOR PLAN
PLUMBING - PRESSURE
NORTH 3/16" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
2. SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
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4. ALL PRESSURE PIPING SHOWN IS ABOVE THE CEILING UNLESS OTHERWISE NOTED. ALL CONCEALED PIPING SHALL BE PEX-A OR COPPER. EXPOSED PIPING SHALL BE COPPER. LINES SHALL BE ½" UNLESS OTHERWISE NOTED.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL FLOOR PLANS FOR ALL DIMENSIONS.
6. COORDINATE ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT.

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Plumbing Floor Plan Pressure

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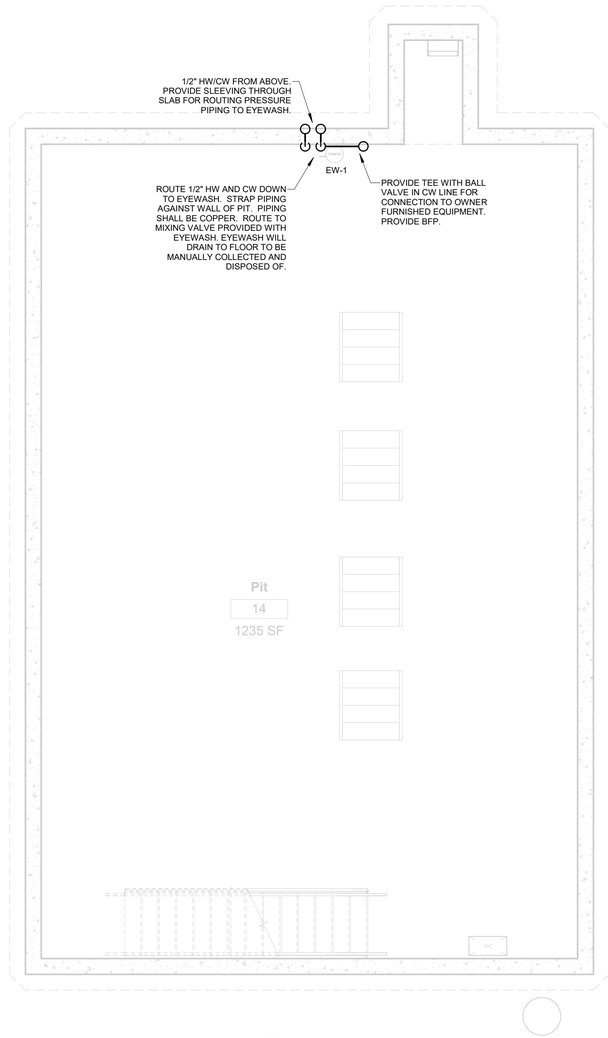
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NORTH

PIT FLOOR PLAN PLUMBING
1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
2. SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
3. PIPING LAYOUTS ARE DIAGRAMMATIC AND DO NOT SHOW ALL ELEMENTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES ON DIRECTION, ELEVATION AND MINOR OFFSETS NECESSARY FOR COMPLETTE INSTALLATION OF ELEMENTS SHOWN.
4. ALL PRESSURE PIPING SHOWN IS ABOVE THE CEILING UNLESS OTHERWISE NOTED. ALL CONCEALED PIPING SHALL BE PEX-A OR COPPER. EXPOSED PIPING SHALL BE COPPER. LINES SHALL BE ½" UNLESS OTHERWISE NOTED.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL FLOOR PLANS FOR ALL DIMENSIONS.
6. COORDINATE ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT.

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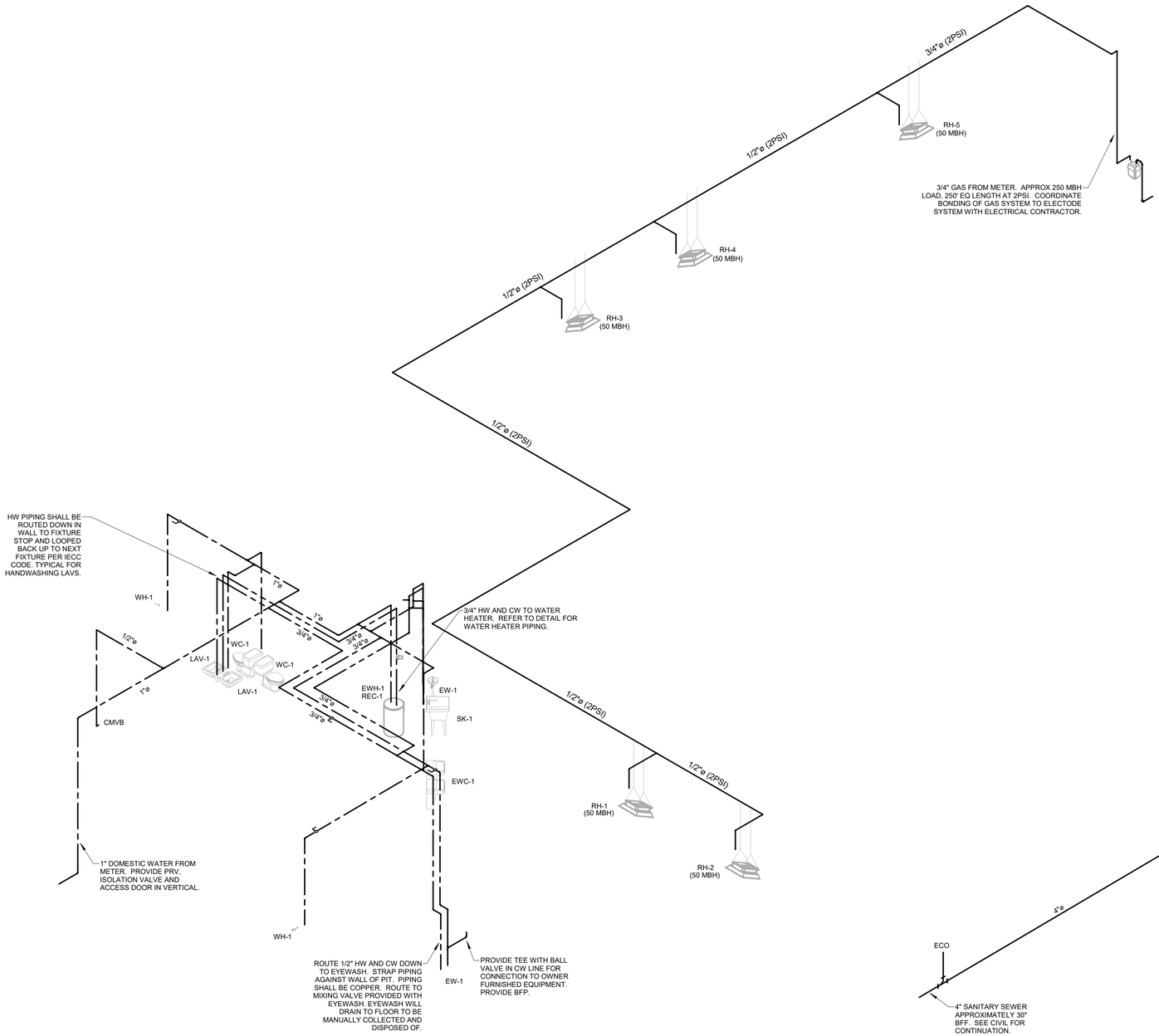
Partial Plumbing Floor Plan - Pit

Project number	25046
Date	TBD
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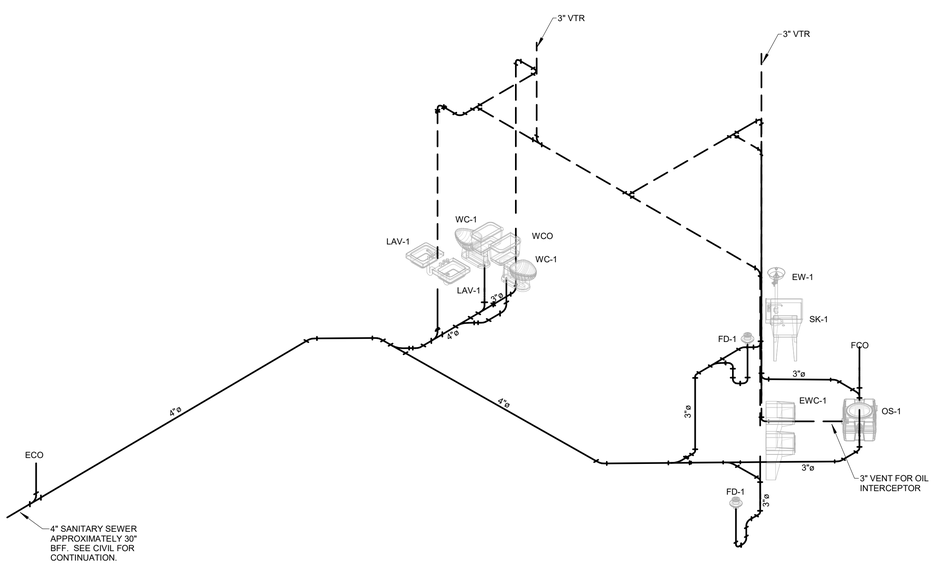
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2 P2.01 Pressure Riser



1 P2.01 Gravity Riser

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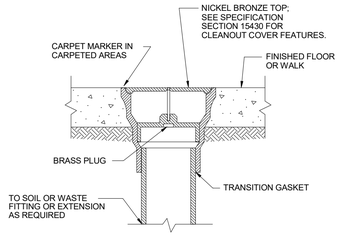
Plumbing Risers

Project number	25046
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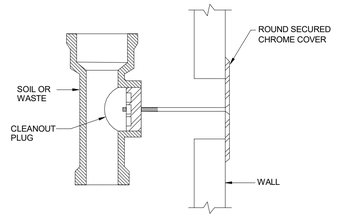
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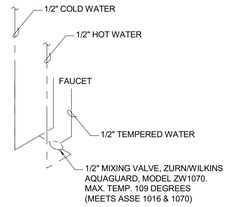
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7 P2.02 **FLOOR CLEANOUT**
NO SCALE

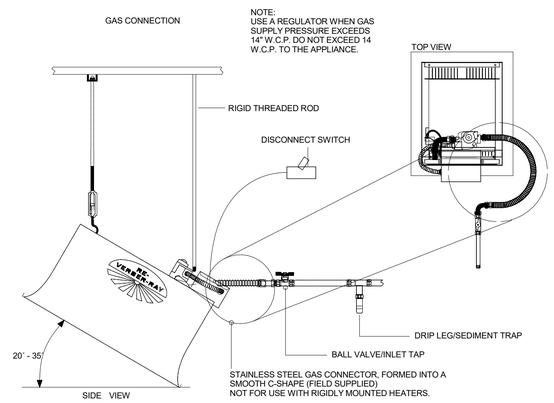


4 P2.02 **WALL CLEANOUT**
NO SCALE

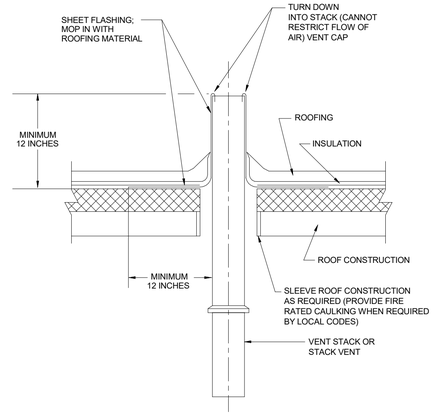


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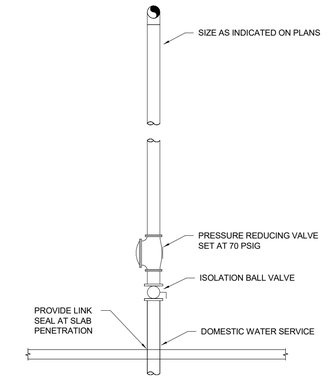
1 P2.02 **TYPICAL LAVATORY MIXING VALVE**
SCALE: NONE



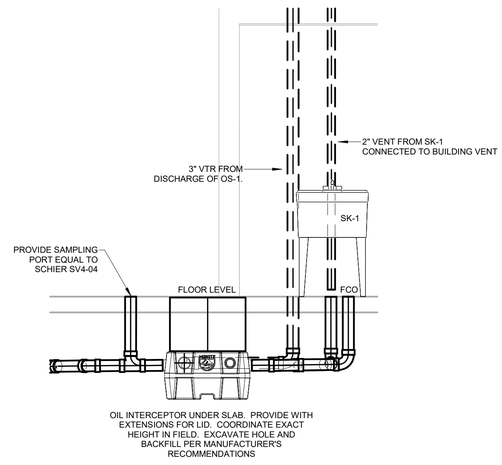
8 P2.02 **RADIANT HEATER GAS CONNECTION DETAIL**
NO SCALE



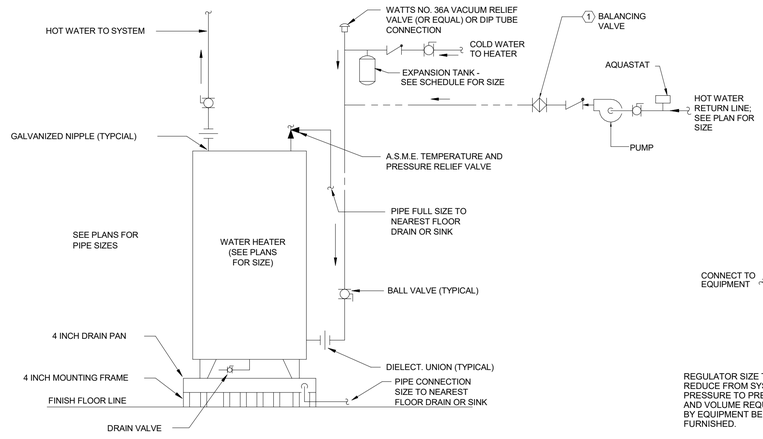
5 P2.02 **VENT THROUGH ROOF DETAIL**
NO SCALE



2 P2.02 **DOMESTIC WATER ENTRANCE DETAIL**
NO SCALE

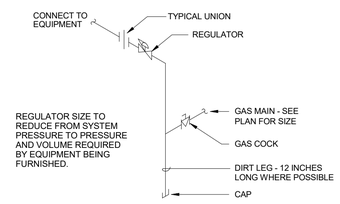


9 P2.02 **OIL INTERCEPTOR**
1/2" = 1'-0"



NOTES:
1 SET THE BALANCING VALVE PER MANUFACTURER'S INSTRUCTIONS.

6 P2.02 **ELECTRIC WATER HEATER (FLOOR MOUNTED)**
NO SCALE



3 P2.02 **TYPICAL GAS CONNECTION**
NO SCALE

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Plumbing Details

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS LAMP	WATTS	TYPE	MTG. TYPE	MTG. HT.	REC. DEPTH	DESCRIPTION	IMAGE
L1P	MAXLITE	8PHE3-U090WCS	LOT	90	LED	P	12' AFF	–	ROUND ECO PENDANT HIGH BAY GEN 3 FIXTURE WITH 12600 LUMEN OUTPUT, 4000K COLOR TEMPERATURE. PROVIDE ALL REQUIRED ACCESSORIES FOR HOOK AND CHAIN MOUNTING.	
	APPROVED EQUAL									
L2P	MAXLITE	LSV4U23WCSCR MLCHKLSV15	LOT	35	LED	P	*	–	4' LINEAR LED FIXTURE, PENDANT MOUNTED WITH ALUMINUM VAPOR TIGHT HOUSING, SELECTABLE WATTAGE, 4500 LUMEN OUTPUT, 4000K COLOR TEMPERATURE. PROVIDE ALL REQUIRED ACCESSORIES FOR SUSPENDED MOUNTING. SEE LIGHTING PLANS FOR LOCATIONS AND QUANTITIES. * VERIFY MOUNTING HEIGHT ABOVE FINISHED FLOOR PRIOR TO INSTALLATION.	
	APPROVED EQUAL									
L2	MAXLITE	LSV4U23WCSCR	LOT	35	LED	S	C	–	4' LINEAR LED FIXTURE, SURFACE MOUNTED WITH ALUMINUM VAPOR TIGHT HOUSING, SELECTABLE WATTAGE, 4500 LUMEN OUTPUT, 4000K COLOR TEMPERATURE. PROVIDE ALL REQUIRED ACCESSORIES FOR SURFACE MOUNTING. SEE LIGHTING PLANS FOR LOCATIONS AND QUANTITIES.	
	APPROVED EQUAL									
L3	MAXLITE	MLFP24G522WCSCR ML24G4CHK	LOT	38	LED	LI	C	–	2X4 LAY-IN LED FLAT PANEL FIXTURE WITH SELECTABLE WATTAGE, SELECTABLE COLOR TEMPERATURE, 4000 LUMEN OUTPUT, DIMMABLE DRIVER, UNIVERSAL VOLTAGE, FLANGE KIT, HANGING CABLES AND POLYSTYRENE LENS.	
	APPROVED EQUAL									
L3E	MAXLITE	MLFP24G522WCSCREM ML24G4CHK	LOT	38	LED	LI	C	–	2X4 LAY-IN LED FLAT PANEL FIXTURE WITH SELECTABLE WATTAGE, SELECTABLE COLOR TEMPERATURE, 4000 LUMEN OUTPUT, DIMMABLE DRIVER, UNIVERSAL VOLTAGE, FLANGE KIT, CABLE HANGERS, POLYSTYRENE LENS. AND EMERGENCY BATTERY PACK.	
	APPROVED EQUAL									
L4	GOTHAM	IV06CYL WC D 15LM 40K 80CRI WD MIN10 ZT L12 JBX DN WL	LOT	15	LED	W	*	–	WALL MOUNTED LED FIXTURE WITH BLACK FINISH, DIE-CAST ALUMINUM HOUSING, 4000K COLOR TEMPERATURE, 1512 LUMEN OUTPUT, WIDE DISTRIBUTION, ELECTRONIC DRIVER. UL LISTED FOR WET LOCATION. NOTE 3	
	APPROVED EQUAL									
L4E	GOTHAM	IV06CYL WC D 15LM 40K 80CRI WD MIN10 ZT L12 JBX DN WL	LOT	15	LED	W	*	–	WALL MOUNTED LED FIXTURE WITH BLACK FINISH, DIE-CAST ALUMINUM HOUSING, 4000K COLOR TEMPERATURE, 1512 LUMEN OUTPUT, WIDE DISTRIBUTION, ELECTRONIC DRIVER AND EMERGENCY BATTERY PACK. UL LISTED FOR WET LOCATION. NOTE 3	
	APPROVED EQUAL									
L5	PROVIDED BY GENERAL CONTRACTOR									
	PROVIDED BY GENERAL CONTRACTOR		FURNISHED WITH UNIT			R	C	–	RECESSED LED DOWNLIGHT WITH 4000K COLOR TEMPERATURE, 3000 LUMEN OUTPUT, AND EMERGENCY BATTERY PACK. UL LISTED FOR WET LOCATION. FIXTURES ARE PROVIDED BY GENERAL CONTRACTOR AS PART OF THE METAL AWNING SYSTEM.	
	PROVIDED BY GENERAL CONTRACTOR									
S1	PROVIDED BY SIGN MANUFACTURER									
	PROVIDED BY SIGN MANUFACTURER		FURNISHED WITH UNIT			W	NOTE 3	–	WALL MOUNTED LED SIGN LIGHTING FIXTURE. NOTE 2.	
	PROVIDED BY SIGN MANUFACTURER									
S2	PROVIDED BY SIGN MANUFACTURER									
	PROVIDED BY SIGN MANUFACTURER		FURNISHED WITH UNIT			W	NOTE 3	–	WALL MOUNTED LED LIGHT FIXTURE. NOTE 2.	
	PROVIDED BY SIGN MANUFACTURER									
BL	MAXLITE	EMT-2WH								
	APPROVED EQUAL		FURNISHED WITH UNIT			W	9'AFF	–	WALL MOUNTED TWO HEAD LED EMERGENCY FIXTURE WITH WHITE THERMOPLASTIC HOUSING, 1100 LUMEN OUTPUT, SELF DIAGNOSTICS, AND EMERGENCY BATTERY PACK.	
Y	MAXLITE	AE100UMC-WCSBFCR PL-SQ4-15E11-B	LOT	85	LED	POLE	18'AFF	–	POLE MOUNTED LED SITE LIGHTING FIXTURE WITH ALUMINUM HOUSING, 4000K COLOR TEMPERATURE, 12000 LUMEN OUTPUT, TYPE IV DISTRIBUTION, ELECTRONIC DRIVER. PROVIDE FULL CUTOFF TYPE FIXTURE. PROVIDE 15' SQUARE STRAIGHT STEEL 4" POLE WITH 3' BASE. LIGHT FIXTURE SHALL BE MOUNTED 18'AFF.	
	APPROVED EQUAL									
XL	MAXLITE	EXT-GW								
	APPROVED EQUAL		FURNISHED WITH UNIT			W	AD	–	WHITE THERMOPLASTIC LED EXIT SIGN WITH SINGLE FACE, GREEN LETTERS, UNIVERSAL MOUNTING, SELF DIAGNOSTICS, AND EMERGENCY BATTERY PACK.	

ABBREVIATIONS: LI–LAY–IN C–CEILING LG–LENS GASKETING GMF–INTERNAL SLOW BLOW FUSE FL–FLUORESCENT MH–METAL HALIDE HO–HIGH OUTPUT
AFF–ABOVE FINISH FLOOR P–PENDENT FC–FROM CEILING R–RECESSED AM–ABOVE MIRROR W–WALL AD–ABOVE DOOR
S–SURFACE DTT–DOUBLE TWIN TUBE FLUORESCENT CA–CANOPY TC–TOP OF METAL CANOPY AW–ABOVE WINDOW VA–VERIFY WITH ARCHITECT

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. FIXTURE OUTLET BOX LOCATIONS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND APPROXIMATE IN LOCATION. EXACT POSITION OF THE OUTLET BOX SHALL DEPEND ON THE FIXTURE AND THE MOUNTING DETAIL.
2. MOUNTING AND SUPPORT DETAILS FOR LIGHTING FIXTURES SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE THE FIXTURES ARE INSTALLED. NO COMBUSTIBLE MATERIALS SHALL BE USED.
3. WET LOCATION FIXTURES SHALL BE MOUNTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION SO AS TO ENSURE THE PREVENTION OF MOISTURE FROM ENTERING THE FIXTURE. IN ADDITION, EACH CONDUIT ENTRY WILL BE SEALED BY USE OF AN APPROVED SWEDGE FITTING WITH A NEOPRENE SEAL, AS MANUFACTURED BY JOHN REMKE COMPANY OR APPROVED EQUAL.
4. OUTLET BOXES SERVING WET LOCATION FIXTURE SHALL BE CODE SIZE, WITH A WATERTIGHT SOLID CAST TOP. CONDUIT ENTRIES SHALL BE THREADED.
5. FIXTURE MOUNTING HEIGHTS IN SCHEDULE ARE TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.
6. FOR LIGHTING PACKAGE PRICING, CONTACT THE FOLLOWING:

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REXEL ENERGY SOLUTIONS
(M) 906-235-2979
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LIGHTING FIXTURE SCHEDULE NOTES:

1. SEE MOUNTING DETAIL ON THIS SHEET FOR MORE INFORMATION.
2. INSTALLED BY SIGN COMPANY.
3. VERIFY MOUNTING HEIGHT WITH SIGN COMPANY BEFORE ROUGHING IN.
4. FIXTURE SHALL BE MOUNTED SO THAT THE TOP OF THE FIXTURE IS AT 12' AFF TO ALIGN WITH BANDING ON EXTERIOR OF BUILDING.

GENERAL NOTES:

1. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION. VERIFY ALL CASEWORK DETAILS TO ENSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
2. SERVICE TO THE BUILDING SHALL BE 120/240 VOLTS, 1PHASE, 3WIRE.
3. ALL CONDUIT SHALL BE RUN CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED, OR INSTALLED IN EXPOSED CEILING.
4. THE CONTRACTOR SHALL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
5. THE ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR AND VERIFY EXACT TYPE OF EQUIPMENT TO BE INSTALLED AND THE DIMENSIONS WHICH MAY AFFECT THE EXACT PLACEMENT OF ELECTRICAL WORK.
6. VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN. LIKEWISE APPRAISE ALL TRADES OF THE LOCATIONS OF ELECTRICAL WORK THAT AFFECTS WALL THICKNESS, PLUMBING, MECHANICAL, ETC.
7. ALL CONDUIT STUBBED OUT FOR FUTURE SHALL BE CAPPED AND HAVE LOCATION MARKED WITH A 2" SQUARE, PAINTED RED, WITH CONDUIT NAME AND SIZE SHOWN IN WHITE.
8. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN INSULATED GROUND WIRE PULLED IN THE CONDUIT WITH CURRENT CONDUCTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO TABLE 250-122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE UNLESS INDICATED TO BE LARGER IN THE SPECIFICATIONS OR PLANS.
9. DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE NATIONAL ELECTRICAL CODE (HEREINAFTER REFERRED TO AS "CODE" OR "NEC"), THE AMERICANS WITH DISABILITIES ACT, AND THE REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND, WHERE APPLICABLE, UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE OWNER.
10. THE MAIN SERVICE SHALL HAVE THE GROUNDED CONDUCTOR (NEUTRAL) GROUNDED TO THE GROUNDING ELECTRODE SYSTEM AT THE SUPPLY SIDE OF THE SERVICE DISCONNECTING MEANS BY A GROUNDING ELECTRODE CONDUCTOR NOT SMALLER THAN THAT SHOWN IN TABLE 250-66 OF THE NEC. THE GROUNDED CONDUCTOR (NEUTRAL), THE GROUNDING ELECTRODE CONDUCTOR, AND THE EQUIPMENT GROUNDING CONDUCTOR CONNECTIONS SHALL BE MADE INSIDE THE SERVICE ENTRANCE EQUIPMENT.
11. ALL CONDUCTORS SHALL BE COPPER, EXCEPT AS SHOWN ON DRAWINGS.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12.
13. ALL CONDUIT INSTALLED INDOORS SHALL BE EMT, OTHERWISE SHALL BE IMC.
14. SWITCH AND RECEPTACLE COVER PLATES SHALL BE STAINLESS STEEL.
15. ALL DEVICES SHALL BE GRAY.
16. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY, RATED 100,000 AIC.
17. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
18. ALL CONDUCTORS SHALL BE DUAL RATED THHN/THWN TYPE INSULATION.
19. GUTTERS (WIREWAYS) SHALL BE SIZED AS SHOWN OR AS REQUIRED BY CODE. ALL GUTTERS SHALL HAVE HINGED COVERS WITH APPROVED FASTENING DEVICES & SHALL BE A STANDARD MANUFACTURED ITEM WITH U.L. LABEL. GUTTERS FROM AC DUCT MATERIAL ARE NOT ACCEPTABLE. GUTTERS SHALL BE AS MANUFACTURED BY HOFFMAN, SQUARE "D", B & C OR APPROVED EQUAL. GUTTER TAPS SHALL BE ILSCO TYPE GTA OF PTA WITH GTC OR PTC INSULATING COVERS.
20. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR, PRIOR TO BID, TO REAFFIRM WITH THE UTILITY COMPANIES INVOLVED, THAT THE LOCATION, ARRANGEMENT (AND THE POWER COMPANY: VOLTAGE, PHASE & METERING REQUIRED) AND CONNECTIONS AT THE UTILITY SERVICE ARE IN ACCORDANCE WITH THEIR REGULATIONS & REQUIREMENTS. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS & SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE ANY ADDITIONAL COST NECESSARY TO MEET THOSE REQUIREMENTS WITHOUT EXTRA COST TO THE OWNER AFTER A CONTRACT HAS BEEN ENTERED INTO.
21. ON MANY PROJECTS, THE UTILITY COMPANY MAY LEVY CHARGES DUE TO LOCATION, SIZE OR TYPE OF SERVICE INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE CHARGES, UNLESS SUCH CHARGES ARE NOT AVAILABLE PRIOR TO BID & CONTRACTOR SO DOCUMENTS AT BID OPENING. SHOULD THE THE COST NOT BE AVAILABLE, PRIOR TO BID, THE CONTRACTOR SHALL SUBMIT A LETTER SO STATING WITH HIS BID.
22. ARRANGE WITH UTILITY COMPANIES FOR SUCH SERVICE AS SHOWN OR HEREIN SPECIFIED & INSTALLATION OF METER WHERE SHOWN. FURNISH WITH SHOP DRAWINGS, A SIGNED DOCUMENT FROM UTILITY COMPANIES DESCRIBING THE LOCATION & TYPE OF SERVICES TO BE FURNISHED AND ANY REQUIREMENTS THEY MAY HAVE. THIS DOCUMENT SHALL BE SIGNED FOR EACH UTILITY COMPANY BY A PERSON RESPONSIBLE FOR GRANTING SUCH SERVICES.
23. PAY ALL CHARGES (IF ANY) IN CONNECTION THEREWITH, INCLUDING PERMANENT METER DEPOSIT. METER DEPOSIT WILL BE REFUNDED TO THE CONTRACTOR AT TIME OF OWNER'S ACCEPTANCE.

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Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issue for Bid	06/19/2026

2026
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General Notes & Fixture Schedules

Project number	25046
Date	04/21/2026
Drawn by	TH
Checked by	GW

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GRAPHICAL ELECTRICAL SYMBOLS

BRANCH CIRCUIT SYMBOLS		
	BRANCH CIRCUIT	HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD OR DEVICE NOTED. WIRE SIZE IS 2#12&1#12GRD–3/4"C.
	BRANCH CIRCUIT	CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT	CONCEALED IN FLOOR.
EX	BRANCH CIRCUIT	EXISTING CONDUIT BARS DENOTE NEW CONDUCTORS.
	BRANCH CIRCUIT	EXPOSED.
o	BRANCH CIRCUIT	RISER UP.
•	BRANCH CIRCUIT	RISER DOWN.
BRANCH CIRCUIT NOTES		
	BRANCH CIRCUIT	3#12&1#12GRD–3/4"C
	BRANCH CIRCUIT	4#12&1#12GRD–3/4"C
10	BRANCH CIRCUIT	2#10&1#10GRD–3/4"C
10	BRANCH CIRCUIT	3#10&1#10GRD–3/4"C

SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND THE HASHMARKS INDICATE THE NUMBER OF WIRES REQUIRED. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250–122. THE NUMBER OF HASH MARKS DO NOT INCLUDE EQUIPMENT GROUNDING CONDUCTOR.

GENERAL SYMBOLS	
J	JUNCTION BOX.
J	WALL MOUNTED JUNCTION BOX.
J	WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
W	ONE GANG BOX WITH 3/4"C. STUB UP ABOVE ACCESSIBLE CEILING WITH COAXIAL CABLE AND TV JACKS.
$T	MANUAL MOTOR STARTER WITH THERMAL PROTECTION.
	SAFETY SWITCH, NON–FUSED.
	SAFETY SWITCH, FUSED.
	CIRCUIT BREAKER MOUNTED IN NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE
	LIGHTING PANEL AND/OR RECEPTACLE PANEL.
	POWER PANEL.
TR	TRANSFORMER.
	GROUND.

GENERAL ABBREVIATIONS	
H	MOUNTING HEIGHT ABOVE FINISHED FLOOR.
AF	ABOVE FINISHED FLOOR.
WP	WEATHER PROOF – NEMA 3R
RT	RAIN TIGHT – NEMA 4.
EP	EXPLOSION PROOF.
TP	TAMPER PROOF.
A	MOUNT ABOVE COUNTER.
BC	MOUNT BELOW COUNTER.
F	FLUSH MOUNTED.
SLD	SEE SINGLE LINE DIAGRAM.
GFI	GROUND FAULT INTERRUPTING.
C	CONDUIT.
EC	EMPTY CONDUIT
GC	FLEXIBLE CONDUIT.
SFC	SEALTITE FLEXIBLE CONDUIT.
EMT	ELECTRICAL METALLIC TUBING.
IMC	INTERMEDIATE METALLIC CONDUIT.
RG	RIGID CONDUIT.
PVC	NONMETALLIC RIGID CONDUIT.
EX	EXISTING.
XR	EXISTING TO BE REMOVED
RL	EXISTING TO BE REMOVED AND RELOCATED.
RQ	EXISTING TO BE REMOVED. EXTEND CIRCUIT CONDUCTORS AS REQUIRED AND INSTALL FINISHED BLANK COVER.
RR	EXISTING TO BE REMOVED AND REPLACED WITH NEW.
RL'D	RELOCATED POSITION.
EM	EMERGENCY BATTERY PACK

LIGHTING FIXTURE & CONTROL SYMBOLS		
1 A	CEILING OUTLET	FIXTURE TYPE "A" CIRCUIT #1.
	CEILING OUTLET	EXISTING.
	CEILING OUTLET	FLUORESCENT FIXTURE, SINGLE OR CONTINUOUS, LENGTHS AS SHOWN.
	CEILING OUTLET	FLUORESCENT STRIP.
	WALL OUTLET	BRACKET TYPE FIXTURE.
	WALL OUTLET	FLUORESCENT BRACKET TYPE FIXTURE.
$	SWITCH OUTLET	A.C. TYPE, SINGLE POLE, 20A, 125/277V.
$3	SWITCH OUTLET	A.C. TYPE, THREE WAY, 20A, 125/277V.
$4	SWITCH OUTLET	A.C. TYPE, FOUR WAY, 20A, 125/277V.
$OS	SWITCH OUTLET	180° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, WALL MOUNTED. WATT STOPPER #DW–100.
PP	SWITCH OUTLET	LIGHTING MOTION DETECTOR POWER PACK. INSTALL ABOVE ACCESSIBLE CEILING.
M	SWITCH OUTLET	LIGHTING MOTION DETECTOR, CEILING MOUNTED.
SWITCH OUTLET NOTES		
"a" "b" ETC.	FIXTURE CORRESPONDS TO A SWITCH DENOTED WITH THE SAME LOWER CASE LETTER.	

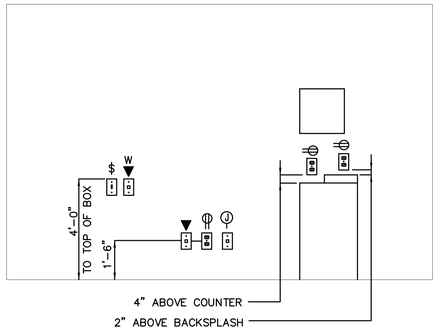
EXIT LIGHT SYMBOLS	
XL	WALL OR CEILING MOUNTED, SINGLE FACE, NO ARROW.
XL	CEILING MOUNTED, DOUBLE FACE, LEFT OR RIGHT ARROWS.
XL	WALL OR CEILING MOUNTED, SINGLE FACE, LEFT OR RIGHT ARROW.
XL	WALL OR CEILING MOUNTED, SINGLE FACE, LEFT AND RIGHT ARROWS.
XL	CEILING MOUNTED, DOUBLE FACE, LEFT AND RIGHT ARROWS.

RECEPTACLE OUTLET SYMBOLS		
	WALL OUTLET	DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5–20R.
	WALL OUTLET	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5–20R, SINGLE PLATE.
	WALL OUTLET	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5–20R, GFCI, WEATHER–RESISTANT, WITH EXTRA DUTY IN–USE WEATHERPROOF COVER. HUBBELL CATALOG #GFR5362SGGY/WP8M
	WALL OUTLET	SINGLE RECEPTACLE, 20A, 250V, 3WIRE, NEMA 6–20R.
	WALL OUTLET	SINGLE RECEPTACLE, 20A, 250V, 3WIRE, NEMA L6–20R.
	FLOOR OUTLET	FLUSH MOUNTED IN–GRADE WITH DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5–20R, FOUR SPACES FOR KEYSTONE CONNECTORS, AND BRUSHED BRASS COVER LEGRAND RFB4E OR EQUAL.
	CEILING OUTLET	DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5–20R.
RECEPTACLE OUTLET NOTES		
"G"	GROUND FAULT INTERRUPTER.	
"GA"	GROUND FAULT INTERRUPTER, MOUNTED ABOVE COUNTER.	
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	
"DF"	FOR DRINKING FOUNTAIN.	

VOICE/DATA OUTLET & CONDUIT SYMBOLS		
▶	VOICE/DATA OUTLET	WALL MOUNTED, WITH 3/4" CONDUIT HOMERUN TO NEAREST TELEPHONE CABINET OR BACKBOARD UNLESS NOTED OTHERWISE.
	VOICE/DATA OUTLET	TELEPHONE BACKBOARD – 3/4" PLYWOOD PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT, 48"x96" HIGH, UNLESS SHOWN OTHERWISE.
VOICE/DATA OUTLET NOTES		
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	

NOTES:

1. INDICATED MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET BOX, UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL REQUIREMENTS.
3. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE.
4. MOUNTING HEIGHTS SHOWN HERE ARE TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.



DETAIL
TYPICAL MOUNTING HEIGHTS
NOT TO SCALE

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FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issue for Bid	06/19/2026

2026
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Symbol Legends and Details

Project number	25046
Date	04/21/2026
Drawn by	TH
Checked by	GW

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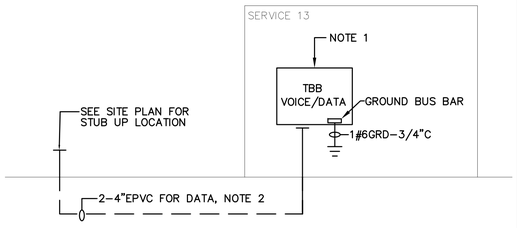
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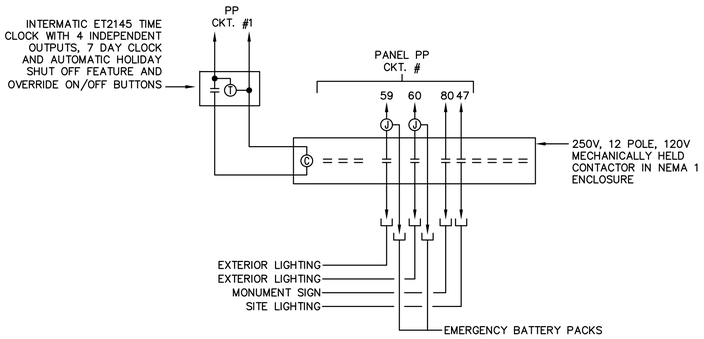
DETAIL
ARC FLASH HAZARD WARNING LABEL
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NOTES:

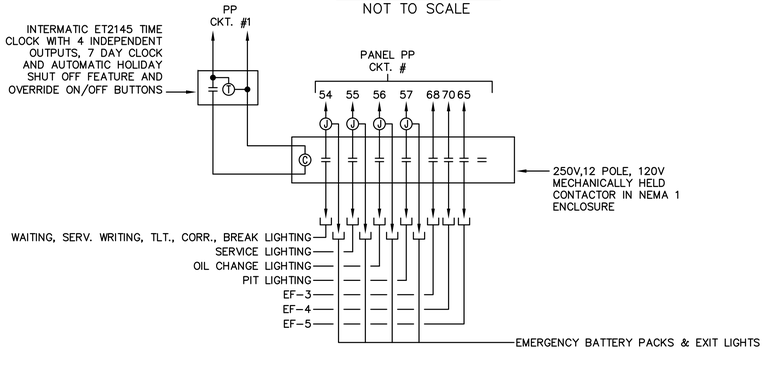
1. 48"x48" FREE STANDING TELEPHONE BACKBOARD. PROVIDE ACCESS AND WORK SPACE CLEARANCE AS REQUIRED BY LOCAL TELECOM UTILITY COMPANY.
2. CONDUIT ELBOWS SHALL BE SWEEPING WITH NO HARD ANGLES.



SINGLE LINE DIAGRAM
AUXILIARY
NOT TO SCALE



WIRING DIAGRAM
CONTACTOR C-2
NOT TO SCALE



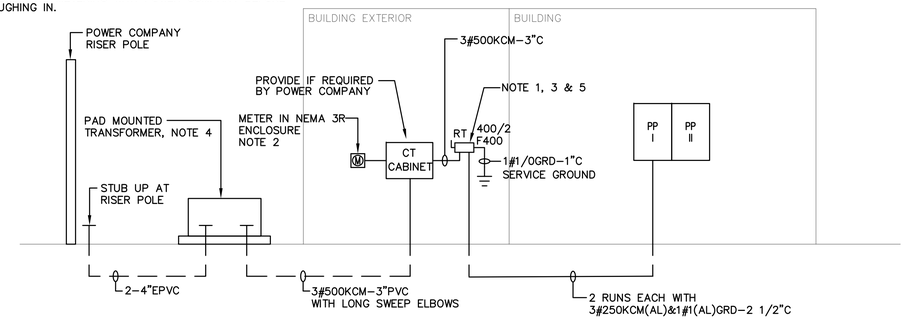
WIRING DIAGRAM
CONTACTOR C-1
NOT TO SCALE

GENERAL NOTES:

1. COORDINATE SERVICE SECONDARY FROM UTILITY TRANSFORMER TO METER WITH POWER COMPANY BEFORE BID AND PRICING. PROVIDE PER POWER COMPANY REQUIREMENTS.
2. EQUIPMENT WITH ALUMINUM FEEDERS SHALL BE PROVIDED WITH DUAL RATED TERMINALS.
3. PROVIDE 120/240V, 1Ø, 400A, UNDERGROUND SERVICE.

NOTES:

1. SERVICE ENTRANCE RATED DISCONNECT SWITCH, NEMA 3R ENCLOSURE
2. COORDINATE METERING WITH POWER COMPANY BEFORE ROUGHING IN.
3. PROVIDE 2"X3" ENGRAVED LABEL WITH BLUE LETTERING INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION.
4. UTILITY PAD MOUNTED TRANSFORMER. FURNISH AND INSTALL CONCRETE PAD PER POWER COMPANY REQUIREMENTS. CONTACT UTILITY COMPANY FOR PAD SPECIFICATIONS AND REQUIRED TERMINATIONS AT TRANSFORMER BEFORE BID AND PRICING. INCLUDE COSTS IN BID. COORDINATE EXACT LOCATION OF TRANSFORMER, PROVIDE CLEARANCES AS REQUIRED BY POWER COMPANY.
5. SERVICE DISCONNECT SHALL BE MOUNTED SUCH THAT CENTER OF OPERATING HANDLE SHALL NOT BE LESS THAN 4' AND NOT MORE THAN 6'-7" ABOVE GRADE.



SINGLE LINE DIAGRAM
POWER
NOT TO SCALE

PANEL LOAD SUMMARY

Panel: PP (SECTION I)

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
CONTACTOR C-1 & C-2			100	20/1	1	100		2	20/1				SPARE
OUTDOOR RECEPTACLE		200		20/1	3		800	4	20/1		600		SERVICE WRITING RECEP.
WAITING ROOM RECEP.		800		20/1	5	1600		6	20/1		800		MANAGER RECEPTACLE
TOILET RECEPTACLE		400		20/1	7		600	8	20/1		200		BREAK RECEPTACLE
SERVICE RECEPTACLE		400		20/1	9	600		10	20/1		200		BREAK RECEPTACLE
STORAGE RECEPTACLE		400		20/1	11		600	12	20/1		200		BREAK FRIDGE RECEPTACLE
MANAGER RECEPTACLE		200		20/1	13	600		14	20/1		400		SERVICE RECEPTACLE
SERVICE RECEPTACLE		400		20/1	15		600	16	20/1		200		ELECTRIC DRAIN SYSTEM
TIRE CHANGER		900		20/2	17	3900		18	30/2		3000		ALIGNMENT LIFT
		900			19		3900	20			3000		
10K LIFT		1440		20/2	21	2880		22	20/2		1440		10K LIFT
		1440			23		2880	24			1440		
SPARE				20/1	25	1440		26	20/2		1440		10K LIFT
SPARE				20/1	27		1440	28			1440		
12K LIFT		1440		20/2	29	2640		30	20/2		1200		WHEEL BALANCER
		1440			31		2640	32			1200		
AIR COMPRESSOR		3360		60/2	33	4160		34	20/1		800		COFFEE MAKER
		3360			35		3360	36	20/1				SPARE
IRRIGATION CONTROLLER		200		20/1	37	400		38	20/1		200		STORAGE/CORR. RECEPT
OIL CHANGE RECEPTACLE		600		20/1	39		1200	40	20/1		600		OIL CHANGE RECEPTACLE
PIT SUMP PUMP		200		20/1	41	400		42	20/1		200		OIL CHANGE DESK RECEP.
Sub-Total	0	18080	100			18720	18020			0	18560	0	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE	
	Phase A	Phase B
LOAD TYPE		
LIGHTING	0.00	0.00
RECEPTACLES	18620.00	18020.00
MOTORS/OTHER	100.00	0.00
TOTAL	18720.00	18020.00

TOTAL CONNECTED LIGHTING LOAD	0.00	KVA
TOTAL CONNECTED RECEPTACLE LOAD	36.64	KVA
TOTAL CONNECTED MOTOR/OTHER LOAD	0.10	KVA
TOTAL CONNECTED LOAD	36.74	KVA

* Diversified per NEC Table 220.44.

ENCLOSURE	NEMA 1
MOUNTING	SURFACE
MAIN TYPE	ML
SIZE	400A
FEED THRU	YES
FEED	BOTTOM
BUS RATING	400A
SERVICE RATED	NO
MIN FULL EQUIP KAIC RATING	22
TYPE	LOADCENTER
MANUFACTURER	
OTHER	

VOLTS	120/ 240	V 1 Phase, 3 Wire & Grd Bus Bar

PANEL LOAD SUMMARY

Panel: PP (SECTION II)

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
SPARE				20/1	43	200		44	20/1		200		OIL CHANGE DESK RECEP.
OIL CHANGE DESK RECEP.		200		20/1	45		400	46	20/1		200		OIL CHANGE DESK RECEP.
SITE LIGHTING	425			20/1	47	425		48	20/1				SPARE
PIT RECEPTACLE		600		20/1	49		800	50	20/1		200		PIT RECEPTACLE
SPARE				20/1	51	400		52	20/1		400		TBB RECEPTACLE
SPARE				20/1	53		1000	54	20/1	1000			6 WAY BAUTTS TIER II, TELESCOP PLX PHONEPSU
SERVICE LIGHTING	1638			20/1	55	2366		56	20/1	728			OIL CHANGE LIGHTING
PIT LIGHTING	540			20/1	57		940	58	20/1		400		SERVICE DESK RECEPT
EXTERIOR LIGHTING	400			20/1	59	800		60	20/1	400			SIGN LIGHTING
SPARE				20/1	61		50	62	20/1			50	REC-1
SPARE				20/1	63	1680		64	30/2			1680	OHP-1
EF-5			1656	20/1	65		3336	66				1680	
EWH-1			2250	25/2	67	3906		68	20/1			1656	EF-3
			2250		69		3906	70	20/1			1656	EF-4
RH-3, RH-4 & RH-5			200	20/1	71	400		72	20/1		200		EXTERIOR RECEPTACLE
RH-1 & RH-2			150	20/1	73		7350	74	90/2			7200	AHU-1
DRINKING FOUNTAIN		200		20/1	75	7400		76				7200	
FUTURE EV CHARGER				50/2	77		400	78	20/1(GFCI)		400		CORD REEL
					79	100		80	20/1			100	MONUMENT SIGN
SPARE				20/1	81		400	82	20/1		400		LOT BELL
LIFT RECEPTACLE		600		20/1	83			84	20/1				SPARE
Sub-Total	3003	1600	6506			17677	18582			2128	2400	21222	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE			DEMAND LOAD (VA)		
	Phase A	Phase B		DEMAND FACTOR	Phase A	Phase B
LOAD TYPE						
LIGHTING	3591.00	1540.00		1.25	4488.75	1925.00
RECEPTACLES	19620.00	20420.00		*	12310.00	12710.00
MOTORS/OTHER	13186.00	14642.00		1.00	13186.00	14642.00
TOTAL	36397.00	36602.00			29984.75	29277.00

TOTAL CONNECTED LIGHTING LOAD	5.13	KVA
TOTAL CONNECTED RECEPTACLE LOAD	4.00	KVA
TOTAL CONNECTED MOTOR/OTHER LOAD	27.73	KVA
TOTAL CONNECTED LOAD	36.86	KVA

* Diversified per NEC Table 220.44.

WIRE SIZE CALCULATIONS		
LARGEST PHASE DEMAND	29.98	KVA
NO. OF PHASES	2.00	
DEMAND LOAD	59.97	KVA
TOTAL DEMAND LOAD	59.97	KVA
SUPPLY VOLTAGE	240.00	V
DEMAND AMPS	249.87	AMPS
MINIMUM CCT AMPS	249.87	AMPS

ENCLOSURE	NEMA 1
MOUNTING	SURFACE
MAIN TYPE	ML
SIZE	400A
FEED THRU	NO
FEED	TOP
BUS RATING	400A
SERVICE RATED	NO
MIN FULL EQUIP KAIC RATING	22
TYPE	LOADCENTER
MANUFACTURER	
OTHER	

VOLTS	120/ 240	V 1 Phase, 3 Wire & Grd Bus Bar

EQUIPMENT ELECTRICAL REQUIREMENTS SCHEDULE

EQUIPMENT	LOCATION	KW	HP	AMP	CIRCUIT BREAKER	DISCONNECT SWITCH/FUSE	CONDUCTORS & CONDUIT	VOLTAGE	CONNECTION
(3) 10K LIFT	SERVICE 13	–	2	12.0	20/2	–	2#12&1#12GRD-3/4"C	240V,1Ø	HARDWIRED
12K LIFT	SERVICE 13	–	2	12.0	20/2	–	2#12&1#12GRD-3/4"C	240V,1Ø	HARDWIRED
AIR COMPRESSOR	SERVICE 13	–	5	28.0	60/2	60/2, F40	2#8&1#10GRD-3/4"C	240V,1Ø	HARDWIRED
TIRE CHANGER	SERVICE 13	–	–	6.0	20/2	30/2	2#12&1#12GRD-3/4"C	240V,1Ø	HARDWIRED
WHEEL BALANCER	SERVICE 13	–	–	20.0	20/2	30/2	2#12&1#12GRD-3/4"C	240V,1Ø	HARDWIRED
ALIGNMENT LIFT	SERVICE 13	–	–	26.0	30/2	30/2, F30	2#10&1#10GRD-3/4"C	240V,1Ø	HARDWIRED

NOTES:

1. CONTRACTOR SHALL COORDINATE REQUIREMENTS SHOWN HERE WITH OWNER BEFORE ROUGHING IN. PROVIDE ELECTRICAL PER OWNER EQUIPMENT VENDOR REQUIREMENTS.

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Single Line Diagram & Panelboard Schedules

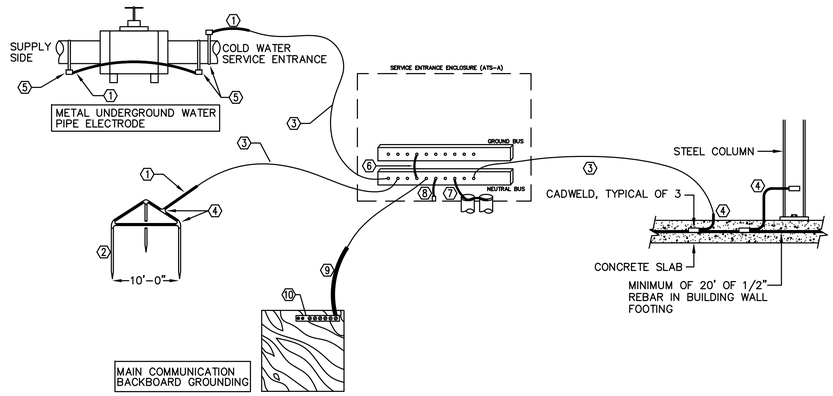
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E102

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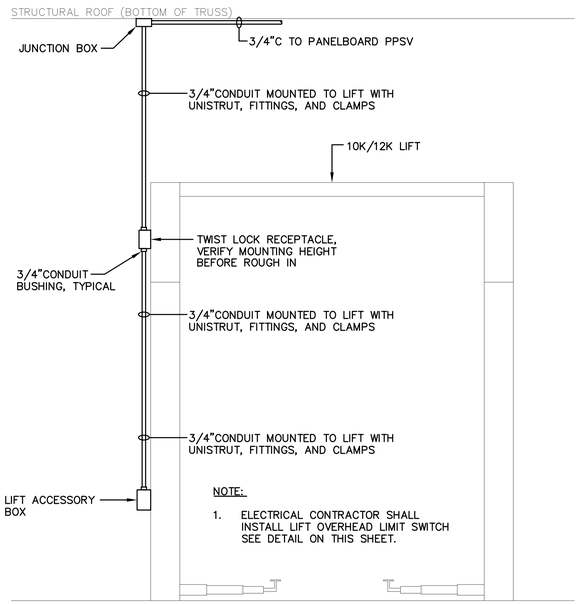
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GROUNDING SYSTEM DETAIL
NOT TO SCALE

GROUNDING SYSTEM DETAIL – KEY NOTES

1. 4/0 BARE GROUNDING ELCTRODE CONDUCTOR.
2. 3/4"x10'-0" CLAD STEEL GROUND ROD, DRIVEN 24" BELOW GRADE, MINIMUM.
3. 4/0 BARE GROUNDING ELECTRODE CONDUCTOR IN 2"PVC-40.
4. EXOTHERMIC WELD CONNECTOR:
   TWO CABLES TO GROUND ROD, CADWELD #GT OR #GY
   CABLE TO CABLE TEE, CADWELD #TA
   ONE CABLE TO GROUND ROD, CADWELD #GR
5. CAST BRONZE, UL LISTED GROUND CLAMP, O-Z/GEDNEY TYPE-G.
6. BONDING JUMPER, SIZED BY EQUIPMENT MANUFACTURER PER NEC 250-66.
7. BONDING JUMPER TO GROUNDING BUSHING. AND BONDING JUMPERS FROM CONDUIT TO CONDUIT. ALL CONDUIT CONNECTED TO THE SERVICE ENTRANCE ENCLOSURE SHALL BE BONDED, SIZED PER NEC 250.
8. MAIN BONDING JUMPER, SIZED BY MANUFACTURER PER 250-66.
9. 4/0 BARE BONDING JUMPER.
10. 6 CONDUCTOR GROUND BUS, COPPER OR ALUMINUM RATED, ILSCO #PDE.



ELEVATION
LIFT POWER DETAIL
NOT TO SCALE

TYPICAL FEEDER DESIGNATION

#_ & 1#_GRD – _C (_A/_P)

- #_ : NUMBER OF CIRCUIT CONDUCTORS; SIZE OF CIRCUIT CONDUCTORS "AWG UNLESS NOTED kCMIL"
- 1#_GRD : SIZE OF GROUNDING CONDUCTOR
- _C : SIZE OF CONDUIT
- (_A/_P) : PROTECTIVE DEVICE TO WHICH THE CIRCUIT IS CONNECTED

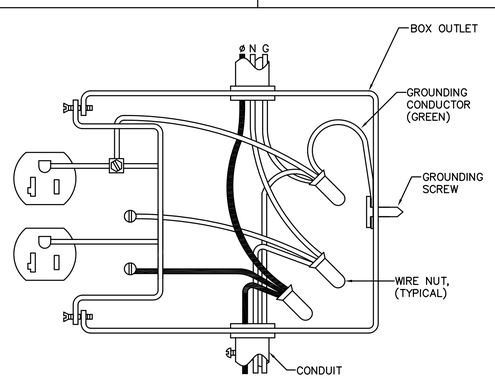
NOTE:

1. CONDUCTOR INSULATION TO BE 600V UNLESS OTHERWISE INDICATED.

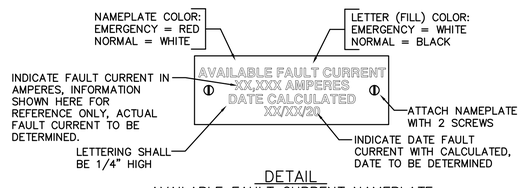
TYPICAL LUMINAIRE, DEVICE AND CIRCUIT DESIGNATIONS

o(R)1	LUMINAIRE TYPE 'R', CIRCUIT NO. 1, CONTROLLED BY SWITCH "a"
2(A)b	FLUORESCENT LUMINAIRE TYPE 'A', CIRCUIT NO. 2, CONTROLLED BY SWITCH "b"
2	WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2
1J	EQUIPMENT CONNECTION – CONNECT TO CIRCUIT NO. 1

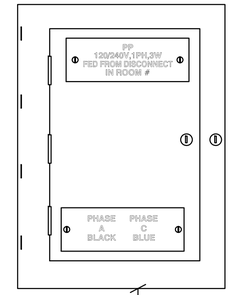
DETAIL
WIRING DESIGNATION
NOT TO SCALE



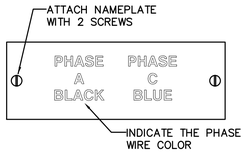
DETAIL
RECEPTACLE INSTALLATION
NOT TO SCALE



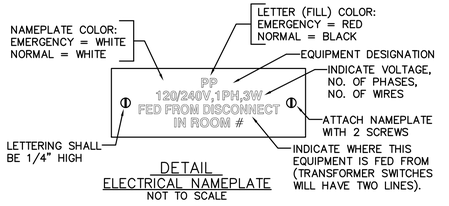
DETAIL
AVAILABLE FAULT CURRENT NAMEPLATE
NOT TO SCALE



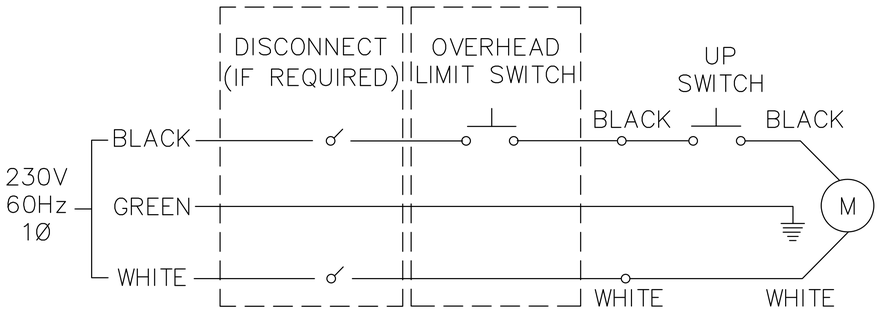
DETAIL
120/240V PANELBOARD INSTALLATION & NAMEPLATE DETAIL
NOT TO SCALE



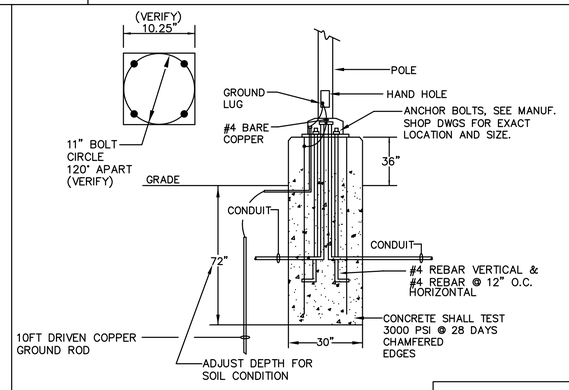
DETAIL
120/240V PANELBOARD ELECTRICAL NAMEPLATE
NOT TO SCALE



DETAIL
ELECTRICAL NAMEPLATE
NOT TO SCALE



LIFT LIMIT SWITCH
WIRING DETAIL
NOT TO SCALE



BASE DETAIL
FIXTURE "Y"
NOT TO SCALE

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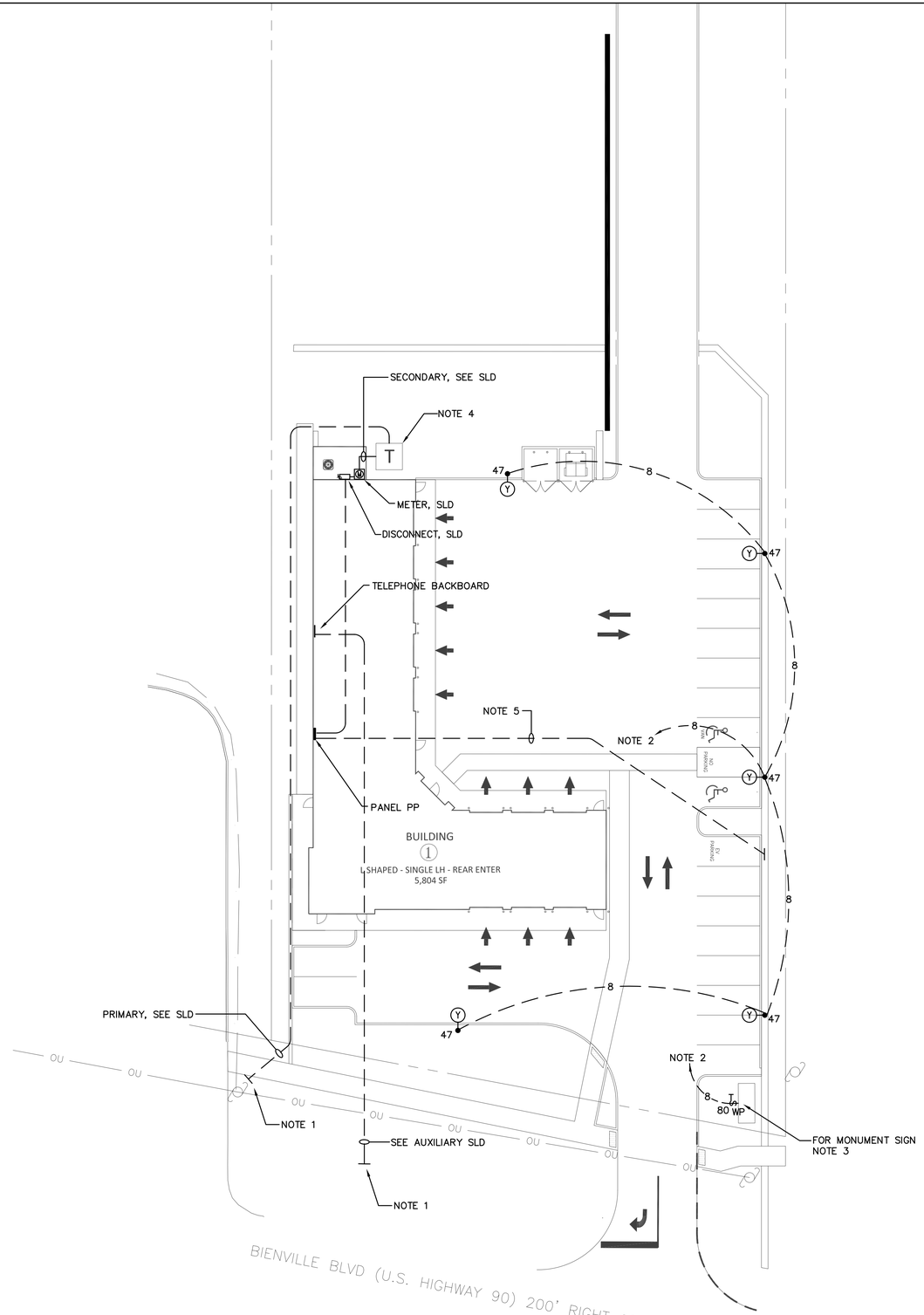
E103

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1 Site Plan - Electrical
1" = 20'-0"

NOTES:

1. VERIFY EXACT LOCATION OF STUB UP BEFORE ROUGH IN.
2. HOMERUN TO PANELBOARD PP THROUGH LIGHTING CONTACTOR C-2.
3. LOCATION OF MONUMENT SIGN SHOWN HERE IS FOR CIRCUIT INFORMATION ONLY. IF MONUMENT SIGN IS REQUIRED, VERIFY EXACT LOCATION WITH CIVIL AND OWNER PRIOR TO ROUGH IN.
4. UTILITY PAD MOUNTED TRANSFORMER. FURNISH AND INSTALL CONCRETE PAD PER POWER COMPANY REQUIREMENTS. CONTACT UTILITY COMPANY FOR PAD SPECIFICATIONS AND REQUIRED TERMINATIONS AT TRANSFORMER BEFORE BID AND PRICING. INCLUDE COST IN BID.
5. PROVIDE 1-1" EMPTY CONDUIT. HOMERUN TO PANEL PP FOR FUTURE EV CHARGING STATION. VERIFY EXACT LOCATION OF STUB UP WITH ARCHITECT AND CIVIL PRIOR TO INSTALLATION.

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Site Plan - Electrical

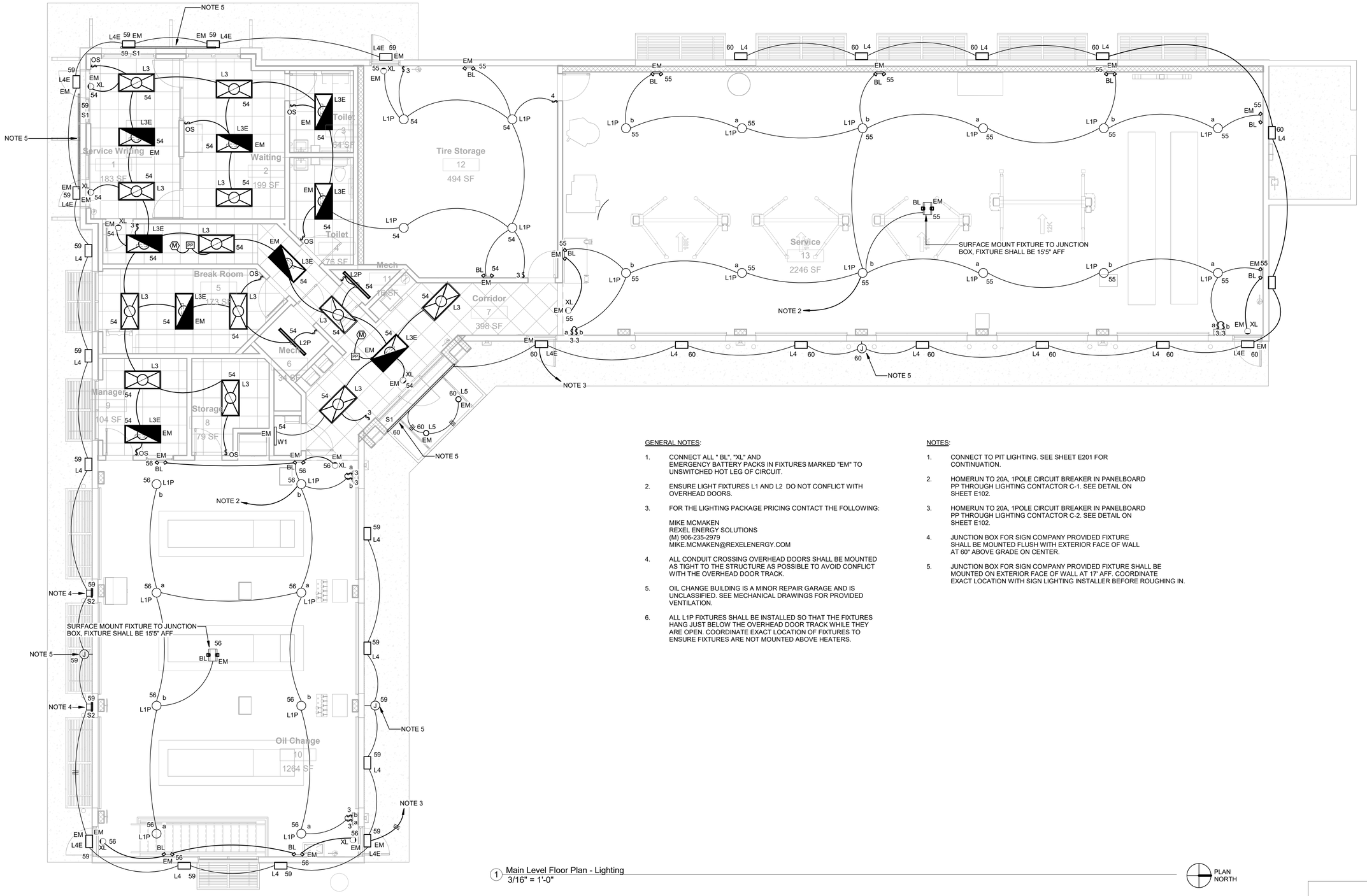
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E104

Scale 1" = 20'-0"

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1 Main Level Floor Plan - Lighting
3/16" = 1'-0"

PLAN NORTH

GENERAL NOTES:

1. CONNECT ALL " BL", "XL" AND EMERGENCY BATTERY PACKS IN FIXTURES MARKED "EM" TO UNSWITCHED HOT LEG OF CIRCUIT.
2. ENSURE LIGHT FIXTURES L1 AND L2 DO NOT CONFLICT WITH OVERHEAD DOORS.
3. FOR THE LIGHTING PACKAGE PRICING CONTACT THE FOLLOWING:

   MIKE MCMAKEN
   REXEL ENERGY SOLUTIONS
   (M) 906-235-2979
   MIKE.MCMAKEN@REXELENERGY.COM
4. ALL CONDUIT CROSSING OVERHEAD DOORS SHALL BE MOUNTED AS TIGHT TO THE STRUCTURE AS POSSIBLE TO AVOID CONFLICT WITH THE OVERHEAD DOOR TRACK.
5. OIL CHANGE BUILDING IS A MINOR REPAIR GARAGE AND IS UNCLASSIFIED. SEE MECHANICAL DRAWINGS FOR PROVIDED VENTILATION.
6. ALL L1P FIXTURES SHALL BE INSTALLED SO THAT THE FIXTURES HANG JUST BELOW THE OVERHEAD DOOR TRACK WHILE THEY ARE OPEN. COORDINATE EXACT LOCATION OF FIXTURES TO ENSURE FIXTURES ARE NOT MOUNTED ABOVE HEATERS.

NOTES:

1. CONNECT TO PIT LIGHTING. SEE SHEET E201 FOR CONTINUATION.
2. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD PP THROUGH LIGHTING CONTACTOR C-1. SEE DETAIL ON SHEET E102.
3. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD PP THROUGH LIGHTING CONTACTOR C-2. SEE DETAIL ON SHEET E102.
4. JUNCTION BOX FOR SIGN COMPANY PROVIDED FIXTURE SHALL BE MOUNTED FLUSH WITH EXTERIOR FACE OF WALL AT 60" ABOVE GRADE ON CENTER.
5. JUNCTION BOX FOR SIGN COMPANY PROVIDED FIXTURE SHALL BE MOUNTED ON EXTERIOR FACE OF WALL AT 17' AFF. COORDINATE EXACT LOCATION WITH SIGN LIGHTING INSTALLER BEFORE ROUGHING IN.

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Floor Plan - Lighting

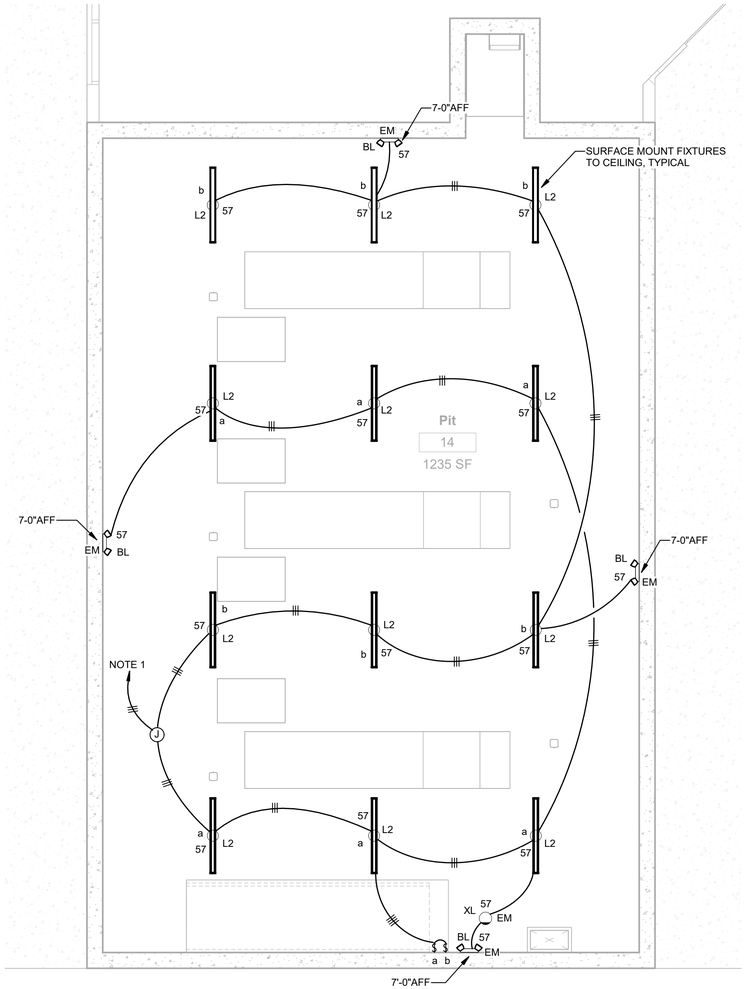
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E200

Scale 3/16" = 1'-0"

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1 Pit Level Plan - Lighting
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES:

1. CONNECT ALL "BL", "XL" AND EMERGENCY BATTERY PACKS IN FIXTURES MARKED "EM" TO UNSWITCHED HOT LEG OF CIRCUIT.
2. FOR THE LIGHTING PACKAGE PRICING CONTACT THE FOLLOWING:

   MIKE MCMAKEN
   REXEL ENERGY SOLUTIONS
   (M) 906-235-2979
   MIKE.MCMAKEN@REXELENERGY.COM
3. OIL CHANGE BUILDING IS A MINOR REPAIR GARAGE AND IS UNCLASSIFIED. SEE MECHANICAL DRAWINGS FOR PROVIDED VENTILATION.
4. ADJUST LIGHT FIXTURES AS NEEDED TO AVOID CONFLICT WITH STRUCTURAL STEEL.

NOTES:

1. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD PP THROUGH LIGHTING CONTACTOR C-1.

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Pit Level Plan - Lighting

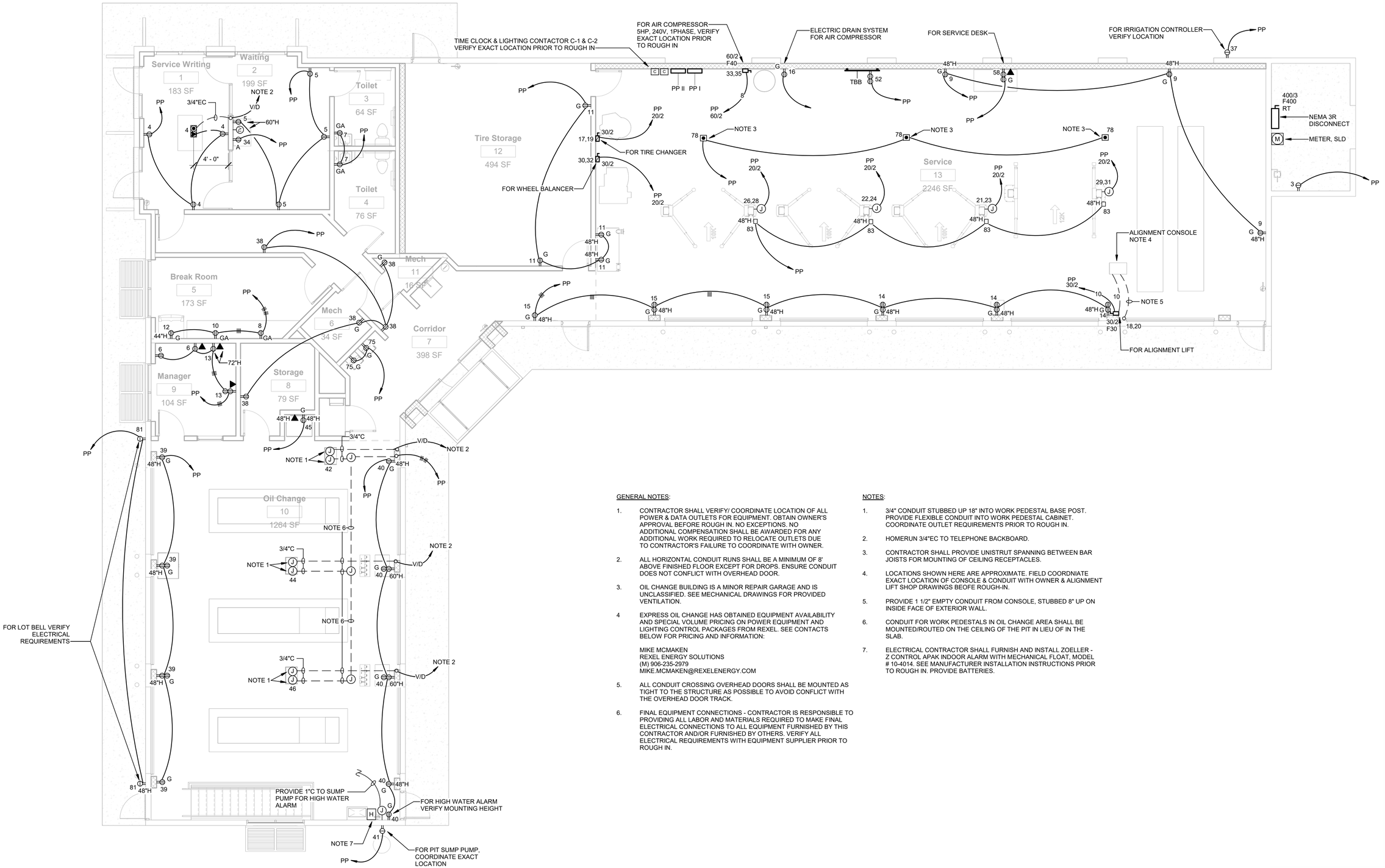
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E201

Scale 1/4" = 1'-0"

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GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY/ COORDINATE LOCATION OF ALL POWER & DATA OUTLETS FOR EQUIPMENT. OBTAIN OWNER'S APPROVAL BEFORE ROUGH IN. NO EXCEPTIONS. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR ANY ADDITIONAL WORK REQUIRED TO RELOCATE OUTLETS DUE TO CONTRACTOR'S FAILURE TO COORDINATE WITH OWNER.
2. ALL HORIZONTAL CONDUIT RUNS SHALL BE A MINIMUM OF 8' ABOVE FINISHED FLOOR EXCEPT FOR DROPS. ENSURE CONDUIT DOES NOT CONFLICT WITH OVERHEAD DOOR.
3. OIL CHANGE BUILDING IS A MINOR REPAIR GARAGE AND IS UNCLASSIFIED. SEE MECHANICAL DRAWINGS FOR PROVIDED VENTILATION.
4. EXPRESS OIL CHANGE HAS OBTAINED EQUIPMENT AVAILABILITY AND SPECIAL VOLUME PRICING ON POWER EQUIPMENT AND LIGHTING CONTROL PACKAGES FROM REXEL. SEE CONTACTS BELOW FOR PRICING AND INFORMATION:

   MIKE MCMAKEN
   REXEL ENERGY SOLUTIONS
   (M) 906-235-2979
   MIKE.MCMAKEN@REXELENERGY.COM
5. ALL CONDUIT CROSSING OVERHEAD DOORS SHALL BE MOUNTED AS TIGHT TO THE STRUCTURE AS POSSIBLE TO AVOID CONFLICT WITH THE OVERHEAD DOOR TRACK.
6. FINAL EQUIPMENT CONNECTIONS - CONTRACTOR IS RESPONSIBLE TO PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR FURNISHED BY OTHERS. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.

NOTES:

1. 3/4" CONDUIT STUBBED UP 18" INTO WORK PEDESTAL BASE POST. PROVIDE FLEXIBLE CONDUIT INTO WORK PEDESTAL CABINET. COORDINATE OUTLET REQUIREMENTS PRIOR TO ROUGH IN.
2. HOMERUN 3/4"EC TO TELEPHONE BACKBOARD.
3. CONTRACTOR SHALL PROVIDE UNISTRUT SPANNING BETWEEN BAR JOISTS FOR MOUNTING OF CEILING RECEPTACLES.
4. LOCATIONS SHOWN HERE ARE APPROXIMATE. FIELD COORDNIATE EXACT LOCATION OF CONSOLE & CONDUIT WITH OWNER & ALIGNMENT LIFT SHOP DRAWINGS BEOFE ROUGH-IN.
5. PROVIDE 1 1/2" EMPTY CONDUIT FROM CONSOLE, STUBBED 8" UP ON INSIDE FACE OF EXTERIOR WALL.
6. CONDUIT FOR WORK PEDESTALS IN OIL CHANGE AREA SHALL BE MOUNTED/ROUTED ON THE CEILING OF THE PIT IN LIEU OF IN THE SLAB.
7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ZOELLER - Z CONTROL APAK INDOOR ALARM WITH MECHANICAL FLOAT, MODEL # 10-4014. SEE MANUFACTURER INSTALLATION INSTRUCTIONS PRIOR TO ROUGH IN. PROVIDE BATTERIES.

1 Main Level Floor Plan - Power & Voice/Data
3/16" = 1'-0"

PLAN NORTH

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LICENSED PROFESSIONAL ENGINEER
31874
STATE OF MISSISSIPPI
04/21/26

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GWAMAE@GW-ENG.COM | 205.413.4112

Express Oil Change & Tire Engineers

L-Shaped / Right Hand Oil Change / Front Enter

Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issue for Bid	06/19/2026

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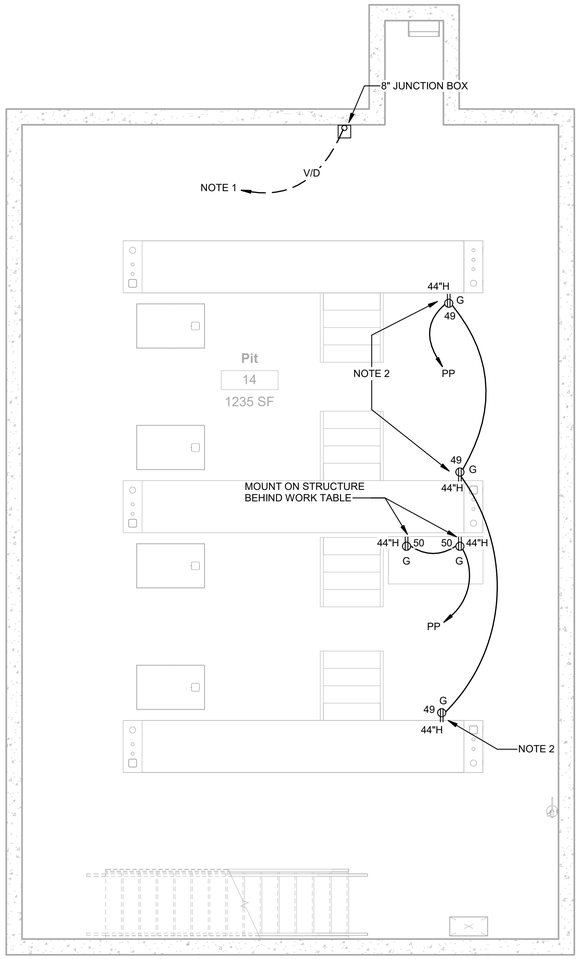
Floor Plan - Power & Voice/Data

Project number	25046
Date	04/21/2026
Drawn by	TH
Checked by	GW

E300

Scale 3/16" = 1'-0"

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1 Pit Level Plan - Power & Voice/Data
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES:

1. OIL CHANGE BUILDING IS A MINOR REPAIR GARAGE AND IS UNCLASSIFIED. SEE MECHANICAL DRAWINGS FOR PROVIDED VENTILATION.

2. EXPRESS OIL CHANGE HAS OBTAINED EQUIPMENT AVAILABILITY AND SPECIAL VOLUME PRICING ON POWER EQUIPMENT AND LIGHTING CONTROL PACKAGES FROM REXEL. SEE CONTACTS BELOW FOR PRICING AND INFORMATION:

   MIKE MCMAKEN
   REXEL ENERGY SOLUTIONS
   (M) 906-235-2979
   MIKE.MCMAKEN@REXELENERGY.COM

NOTES:

1. 2" EC HOMERUN TO TELEPHONE BACKBOARD.

2. MOUNT RECEPTACLES ONTO STRUCTURAL COLUMN.

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Pit Level Plan - Power & Voice/Data

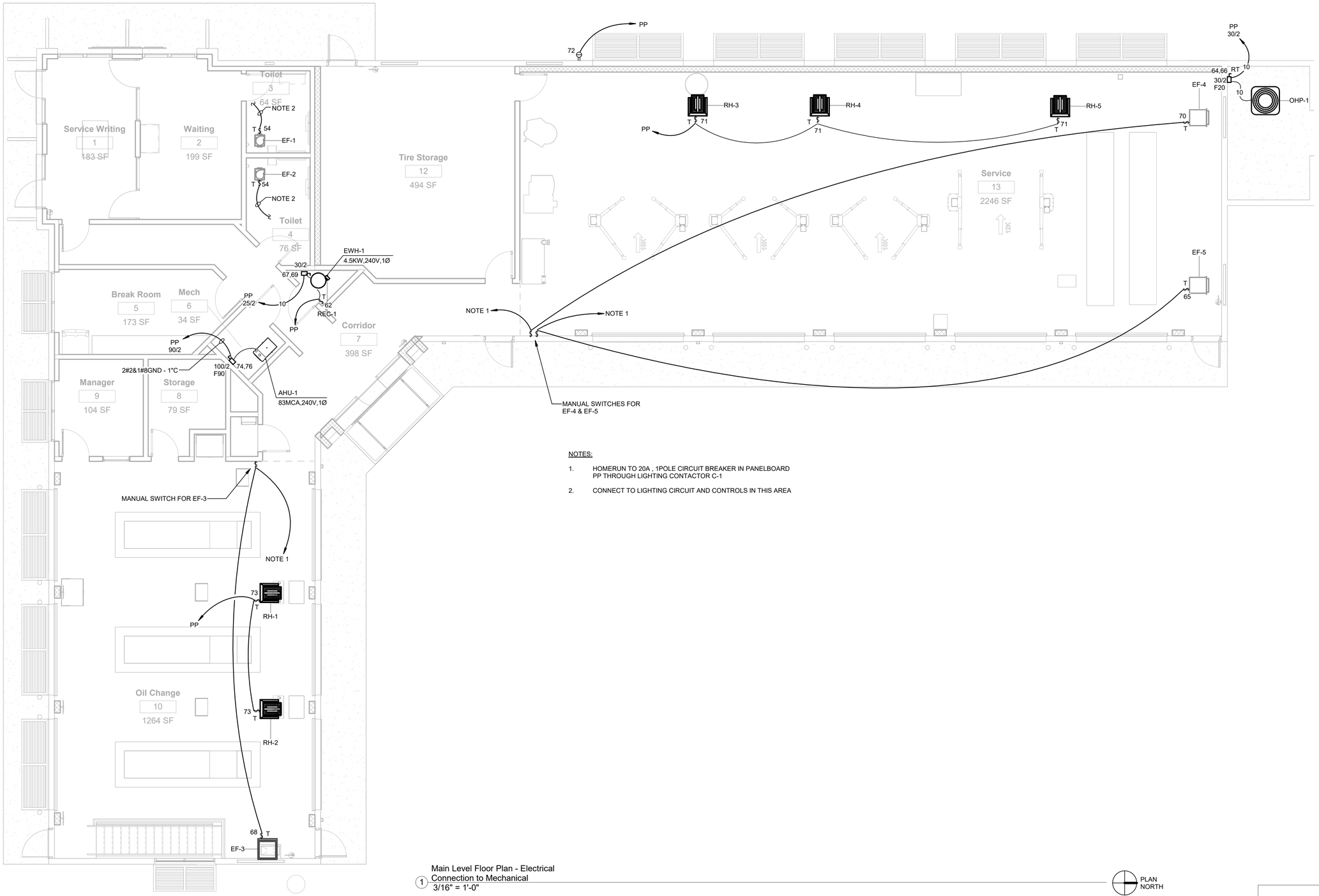
Project number	25046
Date	04/21/2026
Drawn by	TH
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E301

Scale	1/4" = 1'-0"

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NOTES:

1. HOMERUN TO 20A , 1POLE CIRCUIT BREAKER IN PANELBOARD
   PP THROUGH LIGHTING CONTACTOR C-1
2. CONNECT TO LIGHTING CIRCUIT AND CONTROLS IN THIS AREA

1 Main Level Floor Plan - Electrical Connection to Mechanical
3/16" = 1'-0"

PLAN NORTH

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Ocean Springs, Mississippi

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Floor Plan - Electrical Connection to Mechanical

Project number	25046
Date	04/21/2026
Drawn by	TH
Checked by	GW

E400

Scale	3/16" = 1'-0"

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SECTION 16010 - ELECTRICAL SPECIFICATIONS

GENERAL REQUIREMENTS

A. Carefully examine General Conditions, other specification Sections, and other drawings (in addition to electrical), in order to be fully acquainted with their effect on electrical work.

B. Do all work in compliance with laws and ordinances and local authorities having jurisdiction and, where applicable, utility companies. Obtain and pay for any and all required permits, inspections, certificates of inspections and approval, and the like, and deliver such certificates to the Architect.

C. Cooperate with other trades and contractors at job. Perform work in such manner and at such times as not to delay work of other trades. Complete all work as soon as the condition of the structure and installation of equipment will permit. Patch, in a satisfactory manner and by the proper craft, any work damaged by electrical work.

D. All equipment (wiring devices, light fixtures, panelboards, disconnect switches, conductors, raceways, boxes, cabinets, circuit breakers, low voltage equipment, auxiliary systems, motors, machines, etc.) used for this project shall be tested by Underwriter's Laboratories, Inc and have "UL" nameplate.

E. Coordinate placement of equipment above ceiling to facilitate proper clearance for serving of equipments.

F. Take finish dimensions at the job site in preference to scale dimensions.

G. Obtain from manufacturer's data on all equipment, the dimensions of which may affect electrical work. Use this data to coordinate proper service characteristics, entry locations, etc., and to ensure minimum clearances are maintained.

H. The electrical contractor shall have had experience of at least the same size and scope as this project, on at least two other projects, within the last 5 years in order to be qualified to bid this project. This qualification shall also apply to his subcontractors.

I. Workmen shall be experienced in their respective trade. Workmanship of installed work shall be first class and will be so judged by the Architect/Engineer. Substandard work shall be removed and replaced.

J. The Bidders shall visit the site to thoroughly familiarize themselves with existing conditions prior to submitting their bid. No allowances will be made for lack of knowledge of existing conditions.

K. Provide one_Year warranty of conformance with drawings and specifications. In addition to the foregoing warranty, Contractor shall and does hereby warrant all materials and equipment furnished under this Division of the Specifications to be free from defects and to function or operate satisfactorily for one year after final acceptance of the work, and that any items not meeting this requirement will be made good by him without cost to owner, provided such defects or failures are not due to abuse, neglect, or lack of reasonable and ordinary maintenance.

L. Unless otherwise specified, provide only new, standard first grade materials throughout, conforming to standards established by Underwriter's Laboratories, Inc., and so marked and labeled, together with manufacturer's brand or trademark. All equipment subject to approval of Architect/Engineer before installation. All like items shall be of one manufacture.

M. Any equipment or materials shown on the drawings to be removed and reinstalled shall be cleaned and, if necessary repaired to like new condition prior to reinstallation.

N. Where shown on the drawings or specified herein, furnish and install electrical equipment. Furnish all materials, hardware, equipment, labor and services required for the installation of complete and properly working installations as shown on the drawings and described herein.

O. All work shall be executed in a workmanlike manner and shall present a neat and mechanical appearance upon completion. Care shall be exercised that all items are plumb, straight, level.

P. Equipment grounding conductors shall be bonded at each enclosure and pole base. All equipment grounding conductors shall be connected to a common bus, bonded to the equipment enclosure.

Q. An equipment grounding jumper shall be installed from the receptacle ground terminal to the outlet box.

CONDUITS

A. Conduit: Rigid and IMC shall be galvanized outside and inside by hot dipping, EMT shall be Electro_Galvanized. Conduit shall be as manufactured by Republic, Wheatland, Triangle, Pittsburgh Standard, Youngstown, or Allied.

B. Sealtight flexible metal conduit shall consist of flexible galvanized steel tubing with a liquidtight jacket of PVC. All flexible conduit shall have a copper bonding conductor wound into conduit body.

C. Couplings and connectors on rigid and IMC shall be standard threaded type, galvanized outside and inside by hot dipping. Clamp type and threadless are not acceptable. Couplings and connectors, for rigid and IMC shall be as manufactured by Raco or Appleton.

D. EMT connectors shall be steel, set screw unless required by code to be compression type, equipped with insulating throats. Connectors couplings shall be O-Z/Gedney 7000ST or 7000RST series, T & B 5123 - 5623 series, Midwest Electric series 1650, or equal series of Raco. Cast metal couplings will not be approved for any location.

E. EMT couplings shall be steel, set screw unless required by code to be compression type. Couplings shall be O-Z/Gedney 6000S or 6000RS series, T & B 5120 - 5620 series, Midwest Electric series 660, or equal series of Raco. Cast metal connectors will not be approved for any location.

F. Connectors raintight: Meyers or approved equal.

G. Bushings on rigid and IMC shall be threaded malleable iron with integral noncombustible insulator. Rigid and IMC bushings shall be O-Z/Gedney "IBC" series, T & B BIM series, Midwest Electric series 1031 - 1043 or equal by Penn Union. Grounding bushings shall be O-Z/Gedney "IBC-L" series, T & B 3870 - 3999 series, Midwest Electric GLL series or equal by Penn Union.

H. Watertight Flex Connectors: O-Z/Gedney, Raco, or Midwest Electric with insulating throat.

I. EMT conduit with set screw shall be used for all branch circuits, power feeders, auxiliary, signaling and controls circuits in none hazardous dry locations for 2" and smaller. EMT may be used exposed where not subject to physical damage. EMT with compression fitting may be used in damp locations up to the 2" limit. Otherwise use rigid or intermediate hot dipped galvanized inside and out steel, threaded for screwed fitting only conduits unless specified on the drawings otherwise.

J. Conduits shall be sized in accordance with the latest National Electrical Code except that conduits containing more than two conductors shall be sized based on 35% fill and 3/4" conduit shall contain no wire larger than #10 and no more than 6#12 or 4#10 wires. Conduit shall be sized larger than required above when so shown on the drawings or when required by local Code. Minimum size conduit shall be 3/4".

K. Where conduit enters boxes, they shall be secured in place with approved insulating fittings.

L. The use of running threads is absolutely prohibited. All conduit shall be jointed with approved conduit couplings. All couplings on IMC and rigid conduit shall be threaded.

M. All conduits shall be supported within 3 feet of each coupling, fitting, outlet box, junction box, cabinet or equipment enclosure Conduit supports shall be independent of ducts, plumbing piping, ceiling supports, etc. Conduits shall not be supported by junction boxes, pull boxes, fixtures, etc.

N. All exposed conduit threads, metal supports, etc., exposed to the elements or exterior of building shall be painted with rust preventive paint.

CONDUCTORS

A. Conductors for general use, sized #10 and smaller, shall be solid copper. Conductors #8 and larger, and any size to motors or vibrating equipment shall be stranded copper.

B. All conductor insulation shall be 600 volt THHN/THWN.

C. Wire connections, #10 and smaller connections shall be made with insulated wire connectors with steel spring connector threads. Wire connectors shall be "Twister" Wire-Nut series as manufactured by Ideal Industries, Inc, or approved equal.

D. On wire larger than #10, shall be made with approved solderless connectors and covered with Scotch #33 electrical tape so that the insulation is equal to conductor insulation.

E. Connection of stranded conductors, #8 and larger, to bus bars in switchboards, panelboards, equipment enclosures, junction boxes, etc. shall be made with individual lugs, size as required by conductor, bolted to bus bar with full size bolts and nuts with lock washers.

F. Conductors and conduits shall be continuous between outlets.

G. No conductor shall be pulled until conduit is cleaned of all foreign matter.

H. Where installed in panelboards, cabinets, wireways, switches and equipment wire and cable shall be neatly formed and tied.

I. Conductors sized #10 AWG and below shall have permanently colored insulation. Conductors sized #8 AWG and above shall be color coded by either permanently colored insulation or by means of colored tape applied to the conductor within 12" of each termination and in each enclosure, junction box, etc.

JUNCTION BOXES

A. Shall be standard type, with knockouts, made of hot dipped galvanized steel, Steel City, Raco, Appleton, or Bowers.

B. Ceiling outlet boxes shall be 4" octagon 1-1/2" deep or larger as required due to number of wires.

C. Boxes shall be provided with approved 3/8" fixture studs when required to support stem mounted light fixtures.

D. Except when located in exposed concrete block, switch and receptacle boxes shall be 4" square with trim ring for single gang installation. Appropriate gang boxes shall be used for mounting ganged switches.

E. When installed in exposed concrete block, switch and receptacle boxes shall be square type designed for exposed block installation.

F. Outlet boxes shall be securely fastened to structural members and shall not be supported by dry wall, gypsum board, plaster, etc. The device or plate installed in conjunction with the outlet box shall not be used for support. There shall be no more knockouts opened in any outlet box than are required. Boxes shall be sealed during construction.

G. Under no circumstances shall through-the-wall boxes be used. Back to back boxes shall be staggered at least 3 inches, except in fire rated partitions, in which case, back to back boxes shall be staggered at least 24 inches.

H. Outlet boxes two gangs and wider shall not be supported by attachment clips or any means which supports the boxes from less than two opposite sides of the box. Such outlet boxes in stud walls shall be supported securely by support members spanning between studs.

I. Outlet boxes installed in fire rated partitions shall be boxed in with wall board or other suitable fire rated material as required to maintain or restore the fire rating of the assembly.

WIRING DEVICES

A. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:

1. Cooper Wiring Devices; a division of Cooper Industries, Inc. (Cooper).
2. Hubbell Incorporated; Wiring Device-Kellems (Hubbell).
3. Leviton Mfg. Company Inc. (Leviton).
4. Pass & Seymour/Legrand; Wiring Devices & Accessories (Pass & Seymour).

B. Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration 5-20R, and UL 498.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. Cooper; 5351 (single), 5352 (duplex).
   b. Hubbell; HBL5351 (single), CR5352 (duplex).
   c. Leviton; 5891 (single), 5352 (duplex).
   d. Pass & Seymour; 5381 (single), 5352 (duplex).

C. Duplex GFCI Convenience Receptacles, 125 V, 20 A:

1. Products: Subject to compliance with requirements, provide one of the following:
   a. Cooper; GF20.
   b. Pass & Seymour; 2084.

A. Switches, 120/277 V, 20 A:

1. Products: Subject to compliance with requirements, provide one of the following:
   a. Cooper; 2221 (single pole), 2222 (two pole), 2223 (three way), 2224 (four way).
   b. Hubbell; CS1221 (single pole), CS1222 (two pole), CS1223 (three way), CS1224 (four way).
   c. Leviton; 1221-2 (single pole), 1222-2 (two pole), 1223-2 (three way), 1224-2 (four way).
   d. Pass & Seymour; 20AC1 (single pole), 20AC2 (two pole), 20AC3 (three way), 20AC4 (four way).

B. Single and combination plate types to match corresponding wiring devices.

1. Plate-Securing Screws: Metal with head color to match plate finish.
2. Material for Finished Spaces: stainless steel 302 **0.04-inch- (1-mm-)** thick.
3. Material for Unfinished Spaces: Galvanized steel.
4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in "wet locations."

F. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with type 3R weather-resistant, extra duty, die-cast aluminum with lockable in-use cover.

G. Color: Wiring device catalog numbers in Section Text do not designate device color.

1. Wiring Devices Connected to Normal Power System: Gray unless otherwise indicated or required by NFPA 70 or device listing.
2. Wiring Devices Connected to Emergency Power System: Red.

H. Comply with NECA 1, including the mounting heights listed in that standard, unless otherwise noted.

I. Coordination with Other Trades:

1. Take steps to insure that devices and their boxes are protected. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of the boxes.
2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
4. Install wiring devices after all wall preparation, including painting, is complete.

J. Conductors:

1. Do not strip insulation from conductors until just before they are spliced or terminated on devices.
2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.
4. Existing Conductors:
   a. Cut back and pigtail, or replace all damaged conductors.
   b. Straighten conductors that remain and remove corrosion and foreign matter.
   c. Pigtailing existing conductors is permitted provided the outlet box is large enough.

K. Device Installation:

1. Replace all devices that have been in temporary use during construction or that show signs that they were installed before building finishing operations were complete.
2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
4. Connect devices to branch circuits using pigtails that are not less than 6 inches (152 mm) in length.
5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, 2/3 to 3/4 of the way around terminal screw.
6. Use a torque screwdriver when a torque is recommended or required by the manufacturer.
7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
8. Tighten unused terminal screws on the device.
9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device mounting screws in yokes, allowing metal-to-metal contact.

L. Receptacle Orientation:

10. Install ground pin of vertically mounted receptacles up, and on horizontally mounted receptacles to the right.
11. Install hospital-grade receptacles in patient-care areas with the ground pin or neutral blade at the top.

M. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

N. Dimmers:

1. Install dimmers within terms of their listing.
2. Verify that dimmers used for fan speed control are listed for that application.
3. Install unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.

O. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.

P. Adjust locations of floor service outlets and service poles to suit arrangement of partitions and furnishings.

PANELBOARDS

A. Product Data: For each type of panelboard, switching and overcurrent protective device, transient voltage suppression device, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.

B. Source Limitations: Obtain panelboards, overcurrent protective devices, components, and accessories from single source from single manufacturer.

1. Comply with NEMA PB 1 including handling requirements.

D. Comply with NFPA 70.

E. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

F. Enclosures: Flush-and surface-mounted cabinets as shown on drawings.

1. Rated for environmental conditions at installed location.
   a. Outdoor Locations: NEMA 250, Type 4X (stainless steel).
   b. Indoor location NEMA 1 with hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
2. Finishes:
   a. Back Boxes: Stainless Steel.
3. Directory Card: Inside panelboard door, mounted in transparent card holder.

G. Phase, Neutral, and Ground Buses:

1. Material: Hard-drawn copper, 98 percent conductivity.
2. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.

H. Future Devices: Mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.

I. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals, See drawings for rating.

J. Manufacturers: Subject to compliance with requirements, provide products by either: Eaton, General Electric Company: Siemens, and Square D.

K. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes Larger Than 125 A: Bolt-on circuit breakers; plug-in circuit breakers where individual positive-locking device requires mechanical release for removal. Branch circuit breakers shall be HACR type. Molded-Case Circuit Breaker (MCCB): Comply with UL 489, with interrupting capacity to meet available fault currents.

L. Examine panelboards before installation. Reject panelboards that are damaged or rusted or have been subjected to water saturation.

M. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.

N. Proceed with installation only after unsatisfactory conditions have been corrected.

O. Install panelboards and accessories according to NEMA PB 1.1.

P. Mount panelboard cabinet plumb and rigid without distortion of box. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.

Q. Install filler plates in unused spaces.

R. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.

TEMPORARY POWER

A. The electrical contractor shall provide temporary electrical wiring for construction. The temporary service shall be single phase, three wire, 120/240 volts fused at main disconnect. All receptacles on this temporary service shall be protected by ground fault interruptible circuit breakers.

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FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issue for Bid	06/19/2026

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Specifications

Project number	25046
Date	04/21/2026
Drawn by	TH
Checked by	GW

E500

Scale NO SCALE

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COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Express Oil Change & Tire Engineers
Project Type: New Construction

Construction Site:
Ocean Springs, MS

Owner/Agent:
Express Oil Change
Birmingham, AL

Designer/Contractor:
Gideon Wamae
GW Engineering
Trussville, AL 35173

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Automotive Facility	6587	0.64	4209
		Total Allowed Watts =	4209

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-Automotive Facility				
LED 8: W1: Other:	1	1	30	30
LED 7: L3/L3E: Other:	1	21	36	756
LED 6: L2/L2P: Other:	1	14	35	490
LED 5: L1P: Other:	1	24	90	2160
			Total Proposed Watts =	3436

Interior Lighting PASSES: Design 18% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Taylor Higginbotham — Name - Title
Taylor Higginbotham — Signature
04/30/2026 — Date

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Express Oil Change & Tire Engineers
Project Type: New Construction
Exterior Lighting Zone 2 (Neighborhood business district (LZ2))

Construction Site:
Ocean Springs, MS

Owner/Agent:
Express Oil Change
Birmingham, AL

Designer/Contractor:
Gideon Wamae
GW Engineering
Trussville, AL 35173

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	9 ft2	0.25	Yes	2
Illuminated area of facade wall or surface	1700 ft2	0.07	No	128
			Total Tradable Watts (a) =	2
			Total Allowed Watts =	130
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 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)
Entry canopy (9 ft2): Tradable Wattage				
LED 1: L5: Other:	1	2	25	50
LED 3: L4E: Other:	1	9	15	135
Illuminated area of facade wall or surface (1700 ft2): Non-tradable Wattage				
LED 2: L4: Other:	1	19	15	285
			Total Tradable Proposed Watts =	185

Exterior Lighting PASSES: Design 24% 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 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Taylor Higginbotham — Name - Title
Taylor Higginbotham — Signature
04/30/2026 — Date

COMcheck Software Version 4.1.5.5

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COM*check* software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.1, C405.2.2.2 [EL21][1]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][1]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL28][not]	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.6 [EL30][not]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamo and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issue for Bid	06/19/2026

2026
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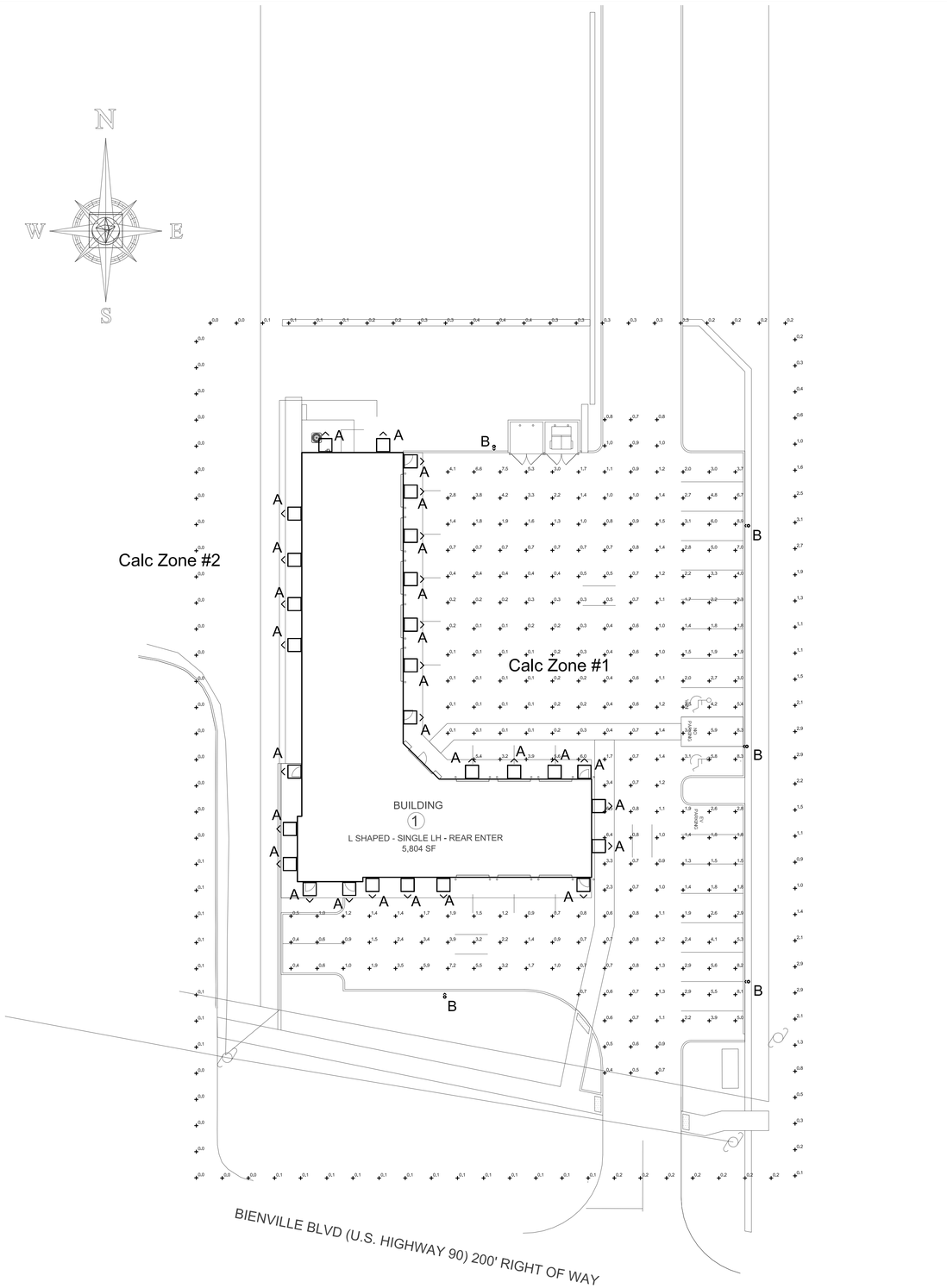
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Project number	25046
Date	04/21/2026
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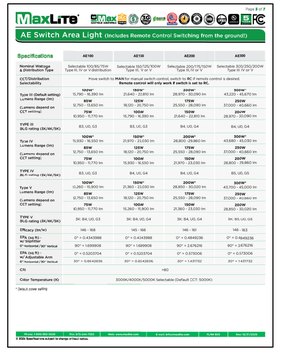
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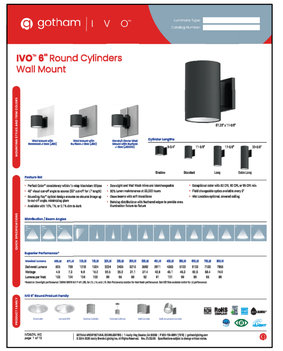
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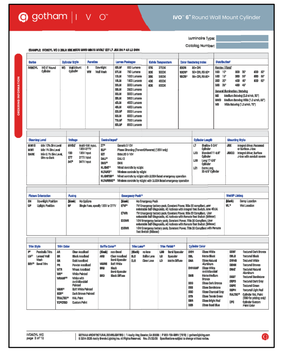


1 Site Plan - Photometrics
1" = 20'-0"









2 Light Fixture Cutsheets
N.T.S.

Schedule

Symbol	Label	Image	QTY	Manufacturer	Mounting height	Description	Number Lamps	Lamp Output	LLF	Input Power
⌂	A		28	Gotham	10'AFF	IVO6CYL WALL 1500LM 4000K 80CRI WIDE BATWING	1	1500	0.9	15
○	B		5	MaxLite Inc	18'AFF	AE100UMC-WCS-4000K	1	13655	0.9	85

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.9 fc	8.9 fc	0.1 fc	NA	NA
Calc Zone #2	+	0.5 fc	3.1 fc	0.0 fc	NA	NA

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Ocean Springs, Mississippi

FINAL

No.	Description	Date
IFP-0	Issued for Permit	04/21/2026
IFB-0	Issue for Bid	06/19/2026

2026
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Site Plan - Photometrics - Base Bid

Project number	25046
Date	04/21/2026
Drawn by	TH
Checked by	GW

E600

Scale 1" = 20'-0"

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