EXPRESS OIL - WAGONER, OK

300 S DEWEY AVE
WAGONER, OKLAHOMA 74467

WAGONER CORNER SUBDIVISION

PLAT CABINET 3, PAGE 279

APN: 730083506

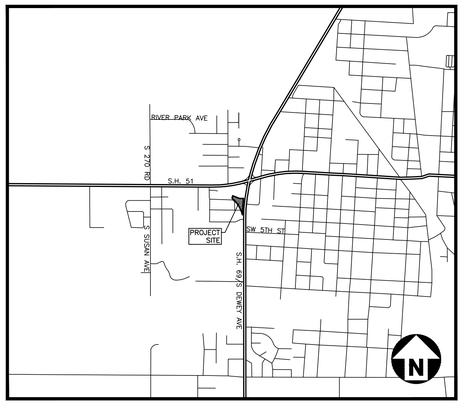
1.43 ACRES

ZONING: REGIONAL COMMERCIAL (C-3)

CONSTRUCTION DRAWINGS

PROJECT NUMBER: EXO25005

DATE: MAY 1, 2026



VICINITY MAP

1" = 2000'

SHEET LIST TABLE

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V1.01	ALTA
C0.01	GENERAL NOTES
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C2.00	ENGINEERING SITE PLAN
C3.00	GRADING PLAN
C3.01	EXISTING DRAINAGE AREA MAP
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C8.00	STANDARD CONSTRUCTION DETAILS
C8.01	STANDARD CONSTRUCTION DETAILS
C8.02	STANDARD CONSTRUCTION DETAILS

McADAMS

The John R. McAdams Company, Inc.
4400 State Highway 121, Suite 800
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www.mcadamsco.com

CONTACT

BRITTANY YOUNGBLOOD
byoungblood@mcadamsco.com
PHONE: 469-240-9624

CLIENT

EXPRESS OIL CHANGE & TIRE ENGINEERS
1880 SOUTHPARK DRIVE
BIRMINGHAM, ALABAMA 35244
JUSTIN DUCK
PHONE: 205-397-1142

PROJECT DIRECTORY

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA

05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS

CONSTRUCTION DRAWINGS FOR:

EXPRESS OIL CHANGE
& TIRE ENGINEERS
WAGONER, OKLAHOMA 74467
PROJECT NUMBER: EXO25005

ISSUE FOR CONSTRUCTION

Z:\Drive\Projects\EXO\EXO25005\04-Production\Engineering\Current Drawings\Sheet\EXO25005-C5.1.dwg, 5/1/2026 4:53:11 PM, Rodrigo Lopez

AMERICAN NATIONAL

Commercial Real Estate
Due Diligence Management

3465 South Arlington Rd Suite E#183
Akron, OH 44312

330.294.1077
www.amnational.net

PRESS CTRL & CLICK HERE TO REQUEST A QUOTE

ALTA/NSPS Land Title Survey

for

EOC - Wagoner OK/20251714
Project Number: 20251714
Wagoner, Oklahoma
Wagoner County

Surveyor's Certification

To: Express Oil Change, LLC, a Delaware limited liability company; TBD, its successors and/or assigns; Fidelity National Title Company; Trustmark Title Acquisition Group, LLC & American National, LLC:

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, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 10, 11b, 13, 14, 16, 17, 18, 19, and 20 of Table A thereof. The field work was completed on October 6, 2025.

BY: Troy Dee
Surveyor's printed name: Troy Dee
Professional Land Surveyor Number: 1745
In the State of Oklahoma

Survey prepared by :
Golden Land Surveying
4131 N.W. 122nd St., Suite 100
Oklahoma City, Oklahoma 73120
Survey Updates: surveys@amnational.net

Date of Plat or Map: October 8, 2025
Date of last revision: December 12, 2025

Drawn By: AJ
GLS Job No. 252254
Network Reference #20251714

Legal Description

Tract 1:

A tract of land that is part of the NW¼ of Section 16, Township 17 North, Range 18 East of the Indian Base and Meridian, Wagoner County, State of Oklahoma, being more particularly described as follows:
Commencing at the NE Corner of said NW¼,
Thence S01°36'19" E along the Easterly line of said NW¼ for 52.87 feet, said point being on the Westerly right-of-way line of U.S. Highway 69,
Thence S08°29'04"W for 0.00 feet to the beginning of a curve,
Thence Southerly along said Westerly right-of-way line on a curve to the left with a central angle of 02°24'47", a radius of 5819.65 feet, a chord bearing of S07°16'41"W and a chord distance of 245.08 feet for an arc length of 245.10 feet to the Point of Beginning of said tract of land,
Thence continuing Southerly along said Westerly right-of-way line on a curve to the left with a central angle of 04°30'11", a radius of 5819.65 feet, a chord bearing of S03°49'11"W and a chord distance of 457.26 feet for an arc length of 457.38 feet,
Thence N14°03'40"W for 0.00 feet to the beginning of a curve,
Thence Northwesterly on a curve to the left with a central angle of 74°39'20", a radius of 895.40 feet, a chord bearing of N51°23'20"W and a chord distance of 1085.90 feet for an arc length of 1166.69 feet,
Thence N88°33'46" E for 6.76 feet to the beginning of a curve,
Thence Easterly and Northeasterly on a curve to the left with a central angle of 08°38'06", a radius of 2944.79 feet, a chord bearing of N84°14'43"E and a chord distance of 443.39 feet for an arc length of 443.81 feet,
Thence N81°25'14"E for 178.02 feet to a point on the Northerly line of said NW¼ and on the Southerly right-of-way line of State Highway 51, said point being S89°19'10"W a distance of 284.62 feet from the NE Corner of said NW¼,
Thence S11°58'09"W for 221.70 feet,
Thence S68°18'55"E for 204.87 feet,
Thence due East for 110.64 feet to the Point of Beginning.

The above described parcel is the same parcel as described in Fidelity National Title Company's, Commitment No. N25-040-1, bearing an effective date of July 8, 2025.

Legend of Symbols & Abbreviations

POWER POLE
LIGHT POLE
GUY ANCHOR
ELECTRIC METER
ELECTRIC BOX
ELEC. TRANSFORMER
ELEC. MANHOLE
ELEC. PEDESTAL
ELEC. PULL BOX
SPOT LIGHT
SANITARY SEWER MANHOLE
SANITARY SEWER CLEANOUT
STORM SEWER MANHOLE
TELEPHONE RISER
TELEPHONE MANHOLE
TELEPHONE MARKER
TELEPHONE PULL BOX
FIBER OPTIC MARKER
CABLE TV PEDESTAL
CABLE MARKER
CABLE TV PULL BOX
IRRIGATION CONTROL VALVE
SPRINKLER HEAD
BOLLARD
VENT PIPE
FIRE DEPARTMENT CONNECT
PROPANE TANK
GAS METER
GAS VALVE
GAS MARKER
OIL PIPELINE MARKER
MAIL BOX
SIGN
FLAG POLE
FIRE HYDRANT
WATER MANHOLE
WATER VALVE
WATER METER
DOWN SPOUT
AIR CONDITIONER
TRAFFIC SIGNAL
TRAFFIC SIGNAL BOX
PEDESTRIAN CROSSING SIGNAL
GREASE TRAP
KEY PAD
COLUMN
SECTION CORNER
QUARTER CORNER
SET IRON PIN W/CAP
SET MAG NAIL W/WASHER
FOUND MONUMENT
RIGHT OF WAY MARKER
TREE
BUSH
YARD HYDRANT/SPICKET
BENCHMARK

WATER LINE
GAS LINE
SANITARY SEWER LINE
TELEPHONE LINE
ELECTRIC LINE
OHE OVERHEAD POWERLINE
FIBER OPTIC LINE
PROPERTY LINE
LOT LINE
EASEMENT LINE
SECTION LINE
FENCE (TYPE AS NOTED)

NOTE: ALL MONUMENTS SET ARE CAPPED 1/2" IRON PINS OR MAG NAILS WITH WASHERS BOTH BEING STAMPED "GOLDEN CA 7263" UNLESS NOTED OTHERWISE

B/L/L-BUILDING LIMIT LINE
U/E-UTILITY EASEMENT
I.P.-IRON PIN
S.I.P.-SET IRON PIN
CGMP-CORRUGATED METAL PIPE
H/C-HANDICAP F.I.P.-FOUND IRON PIN
RCP-REINFORCED CONCRETE PIPE

GENERAL NOTES

GN1 Pursuant to Table A Item 2, An address of 0, Unkown, Wagoner, OK was observed in the provided Title Commitment No. N25-040-1.

GN2 Pursuant to Table A items 6(a) and 6(b), the surveyor was not provided with a zoning report or letter and is therefore unable to address this item.

GN3 Pursuant to Table A Item 9, The total number of striped parking spaces on the subject property is 3, including 1 designated handicap spaces. (TRACT 1 ONLY)

GN4 Pursuant to Table A items 10, There are no division or party walls with respect to adjoining properties.

GN5 Pursuant to Table A item 13, Adjoiner information shown hereon was obtained from the county's property appraiser web site.

GN6 The surveyor was not provided with a specified street from the client pursuant to Table A Item 14. The intersection of W State Highway 51 and S Dewey Ave is located 421.93'± from the N/E corner of subject property.

GN7 Pursuant to Table A Item 16, There is no observed evidence of current earth moving work, building construction or building additions.

GN8 Pursuant to Table A Item 17, There are no proposed changes in street right of way lines, to the best of my knowledge. There is no observed evidence of recent street or sidewalk construction or repairs.

GN9 Pursuant to Table A Item 18, the surveyor was not provided any offsite easements or servitudes burdening or benefiting the subject property.

GN10 Pursuant to Table A Item 19, A Professional Liability Insurance policy has been obtained by the Surveyor and the Certificate of Insurance is available upon request.

GN11 There is no observed evidence of site use as a solid waste dump, sump or sanitary landfill.

GN12 An assumed bearing of South 89° 19' 19" West as the North line of the NW/4 of Section 16, per Oklahoma State Plane Grid North was used as the basis of bearing for this survey.

GN13 Subject property has direct access to W State Highway 51 & S Dewey Avenue via a public Right-of-Way.

GN14 The boundary line dimensions as shown on this Survey form a mathematically closed figure within ±0.1 feet and meet the Minimum Relative Positional Accuracy Standards set forth in the Oklahoma Standards of Practice.

GN15 The parcels are contiguous along their common boundary lines with no gaps, gores or strips.

GN16 All unit of measurements are US Survey feet (Ground).

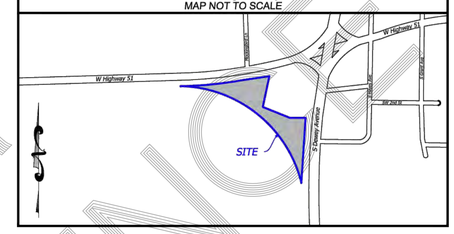
FLOOD NOTE: By graphic plotting only, this property is in Zone(s) X (UNSHADED) of the Flood Insurance Rate Map,Community Panel No. 40145C0310H, which bears an effective date of APRIL 17TH, 2012 and is/is not in a Special Flood Hazard Area.

Encroachment Statement

NONE OBSERVED.

Vicinity Map

MAP NOT TO SCALE



Zoning Information

STATUS			STATUS
ITEM	REQUIRED	OBSERVED	Contact info: (Zoning Dept contact info)
PERMITTED USE			
MIN. LOT AREA			
MIN. FRONTAGE			
MAX. BLDG COVERAGE			
MIN. SETBACKS FRONT			
MIN. SETBACKS SIDE			Notes:
MIN. SETBACKS REAR			Because there may be a need for interpretation of the applicable zoning codes, we refer you to the town of (ANYTOWN) for zoning laws and applicable codes.
MAX BUILDING HEIGHT			
PARKING REGULAR			
PARKING HANDICAP			
PARKING TOTAL			

Utility Notes

The location of utilities shown hereon are from observed evidence of above ground appurtenances only. The surveyor was not provided with underground plans or surface ground markings to determine the location of any subterranean uses.

Notes Corresponding to Schedule B

11–11. Covenants, Conditions, Restrictions, Easements, and building setback lines, as delineated on the plat of WAGONER CORNER SUBDIVISION, in Plat Book 3, Page 279 (Entry 130-1), and all amendments and supplements thereto, in the county plat records. **DOES NOT AFFECT. SHOWN HEREON FOR REFERENCE.**

12–12. Declaration of Covenants, Conditions, and Restrictions recorded in Book 739, Page 149 (Entry 128-1) and in Book 741, Page 680 (Entry 162-1) and in Book 741, Page 681 (Entry 163-1) and in Book 742, Page 840 (Entry 179-1) and in Book 754, Page 351 (Entry 195-1) and in Book 754, Page 601 (Entry 201-1) and in Book 754, Page 605 (Entry 205-1) and in Book 755, Page 93 (Entry 226-1) and in Book 754, Page 97 (Entry 230-1) and in Book 1091, Page 401 (Entry 238-1) and in Book 1111, Page 419 (Entry 255-1) and in Book 2142, Page 219 (Entry 330-2) all amendments and supplements in the County records to any of the instruments aforesaid but deleting any covenant, condition, or restriction indicating a preference, limitation, or discrimination based on race, color, religion, sex, handicap, familial status, or national restrictions to the extent such covenants, conditions, or restrictions violate 42 USC §3604(c). **BOOK 2142, PAGE 219 AFFECTS BLANKET IN NATURE. THE REMAINING DOCUMENTS DO NOT AFFECT .**

13–13. Easement in favor of Wagoner County recorded in Book 188, Page 299 (Entry 28-1); Restriction recorded in Book 720, Page 742 (Entry 120-1). **DOES NOT AFFECT. SHOWN HEREON FOR REFERENCE.**

14–14. Easement in favor of State of Oklahoma recorded in Book 232, Page 187 (Entry 35-1); Partial Release recorded in Book 1137, Page 18 (Entry 32-2); Partial Release recorded in Book 2042, Page 699 (Entry 34-2). **AFFECTS AS SHOWN HEREON.**

15–15. Easement in favor of Oklahoma Natural Gas Co. recorded in Book 238, Page 191 (Entry 38-1). **AFFECTS SUBJECT PROPERTY; BLANKET IN NATURE.**

16–16. Report of Commissioners in Case No. 11229 (Entry 46-1). **AFFECTS AS SHOWN HEREON.**

17–17. Intentionally Omitted.

18–18. Intentionally Omitted.

19–19. Access Easement in favor of Fort Gibson Lake Association recorded in Book 1013, Page 816 (Entry 243-1). **AFFECTS AS SHOWN HEREON.**

20–20. Access Easement in favor of City of Wagoner recorded in Book 1217, Page 501 (Entry 263-1). **AFFECTS AS SHOWN HEREON.**

21–21. Assignment, Conveyance and Bill of Sale recorded in Book 1660, Page 546 (Entry 264-1). **AFFECTS SUBJECT PROPERTY; BLANKET IN NATURE.**

22–22. Assignment and Assumption of Real Property Interests recorded in Book 2135, Page 434 (Entry 271-1). **AFFECTS SUBJECT PROPERTY; BLANKET IN NATURE.**

23–23. Intentionally Omitted.

24–24. Partial Reinstatement of Access Rights in favor of State of Oklahoma recorded in Book 2070, Page 223 (Entry 105-2). **AFFECTS AS SHOWN HEREON.**

25–25. Easement Agreement recorded in Book 2087, Page 12 (Entry 109-2). **DOES NOT AFFECT. SHOWN HEREON FOR REFERENCE.**

26–26. Easement Agreement recorded in Book 2142, Page 198 (Entry 309-2). **AFFECTS AS SHOWN HEREON.**

27–27. Right of Way in favor of Oklahoma Natural Gas Co. recorded in Book 2280, Page 296 (Entry 334-2). **AFFECTS AS SHOWN HEREON.**

28–28. Easement in favor of City of Wagoner recorded in Book 2288, Page 218 (Entry 337-2). **AFFECTS AS SHOWN HEREON.**

29–29. Statutory right-of-way along all section lines. **AFFECTS AS SHOWN HEREON.**

REFERENCE ONLY

AMERICAN NATIONAL
Commercial Real Estate
Due Diligence Management
3465 South Arlington Rd Suite E#183
Akron, OH 44312
330.294.1077
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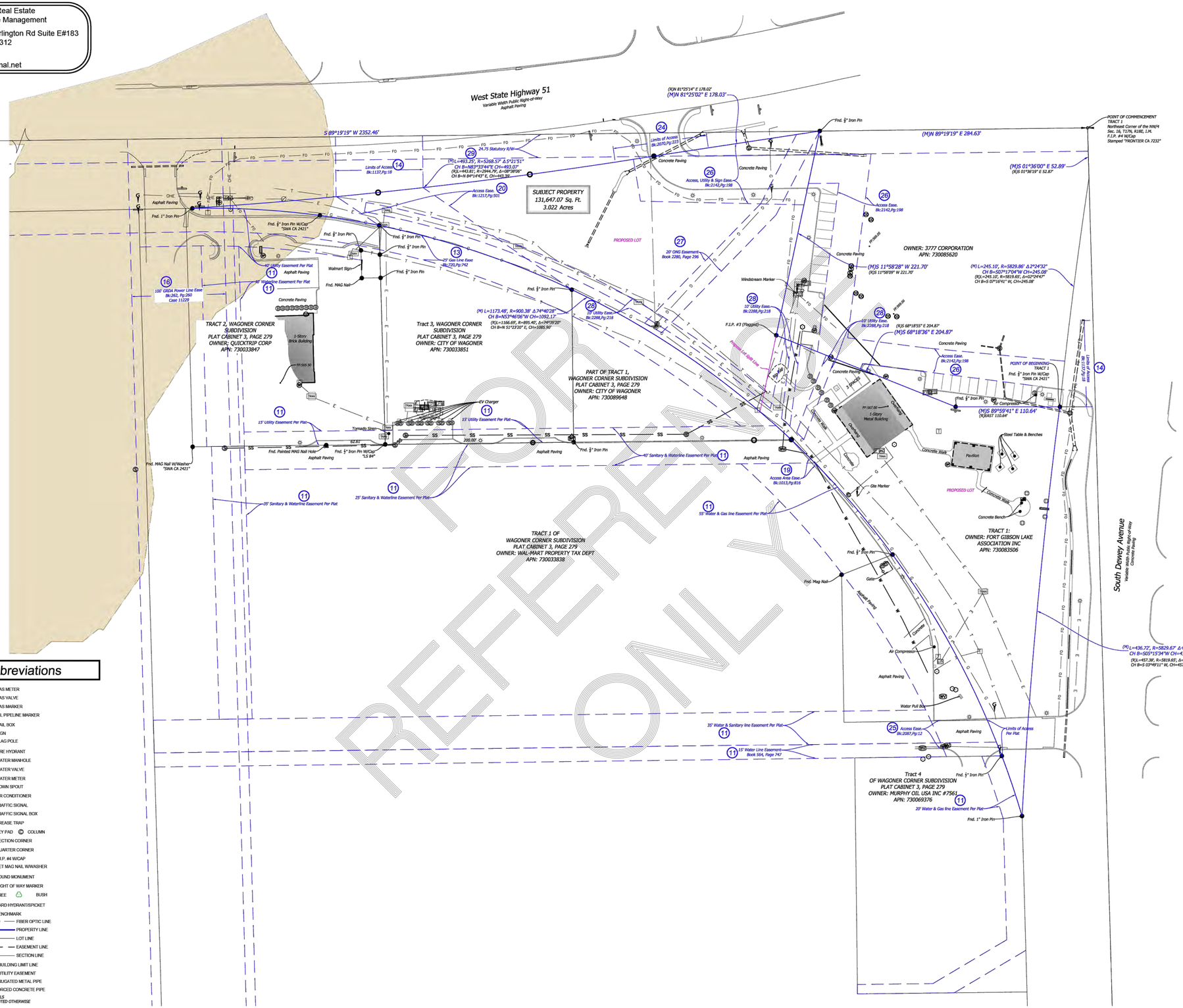

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FIRE DEPARTMENT CONNECT
PROPANE TANK
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GAS VALVE
GAS MARKER
OIL PIPELINE MARKER
MAIL BOX
SIGN
FLAG POLE
FIRE HYDRANT
WATER MANHOLE
WATER VALVE
WATER METER
DOWN SPOUT
AIR CONDITIONER
TRAFFIC SIGNAL
TRAFFIC SIGNAL BOX
GREASE TRAP
KEY PAD
COLUMN
SECTION CORNER
QUARTER CORNER
S.I.P. #4 W/CAP
SET MAG NAIL W/WASHER
FOUND MONUMENT
RIGHT OF WAY MARKER
TREE
BUSH
YARD HYDRANT/PICKET
BENCHMARK

W — WATER LINE
G — GAS LINE
SS — SANITARY SEWER LINE
T — TELEPHONE LINE
E — ELECTRIC LINE
O-H-E — OVERHEAD POWERLINE
X — FENCE (TYPE AS NOTED)
FO — FIBER OPTIC LINE
PROPERTY LINE
LOT LINE
EASEMENT LINE
SECTION LINE
B/UL — BUILDING LIMIT LINE
U/E — UTILITY EASEMENT

S.I.P.-SET IRON PIN
I.P.-IRON PIN
CGMP-CORRUGATED METAL PIPE
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SCALE : = 50'
50' 25' 0 50'

Filename: O:\JOBS\# PROJECTS 2025\252254 300 S DEWEY AVE, WAGONER, OK_ALTA\PLUS_AMN\DWG\252254_300 S DEWEY AVE, WAGONER, OK_ALTA\PLUS_AMN.DWG; Last Saved: 12/12/2025 5:52:37 PM; Plot Date: 12/12/2025; Login: James Phelps

GENERAL NOTES:

1. THE TERM MUNICIPALITY REFERS TO THE CITY OF WAGONER.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AND STATE AND SHALL BE IN ACCORDANCE WITH THE MUNICIPAL AND STATE STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION.
3. 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.
4. 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.
5. 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 OKLAHOMA 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.
6. 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.
7. 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.
8. THE CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER AND WATER SERVICES AT ALL TIMES DURING CONSTRUCTION.
9. 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 WHICH EVER IS MORE STRICT. FIELD DENSITY TESTS PER MUNICIPAL REQUIREMENTS.
10. 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 OKLAHOMA. 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".
11. WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE MUNICIPALITY.
12. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.
13. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE CONCRETE PAVEMENT.
14. 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.
15. 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.
16. THE CONTRACTOR MUST CEASE ALL CONSTRUCTION OPERATIONS IMMEDIATELY IF A SUSPECTED ARCHEOLOGICAL OBJECT/ARTIFACT IS UNCOVERED DURING CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY CONTACT THE OKLAHOMA HISTORICAL COMMISSION AND THE MUNICIPALITY. PROJECT WORK WILL NOT COMMENCE UNTIL PROPER PERMITS ARE IN PLACE AND PROVIDED TO THE MUNICIPALITY.
17. ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL HANDICAPPED ACCESSIBILITY REQUIREMENTS INCLUDING SIGNAGE, TEXTURES, COLORING, MARKINGS, AND SLOPES OF ADA 2012 ACCESSIBLE ROUTES & RAMPS, AND PARKING SPACES.
19. ALL PIPE LENGTHS MEASURED FROM STATION TO STATION BASED ON THE CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
20. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARISE.
21. THE OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) MUST APPROVE ANY WORK TO BE DONE IN THE STATE HIGHWAY RIGHT-OF-WAY. AN APPLICATION AND APPROPRIATE PLANS MUST BE SUBMITTED DIRECTLY TO ODOT FOR REVIEW AND APPROVED BY THE MUNICIPALITY WHERE THE WORK WILL BE PERFORMED.
22. THE LOCATION OF UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES. IF THE EXISTING UNDERGROUND UTILITIES ARE DAMAGED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRING THE UTILITY.
23. WHERE EXISTING UTILITIES, SERVICE LINES OR IRRIGATION LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES, SERVICE LINES OR IRRIGATION LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS IN GRADES AND ALIGNMENTS.
24. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OSHA, "CONST. SAFETY AND HEALTH REGULATIONS." VOL. 29, SUBPART P. PG. 128-137, AND ANY AMENDMENTS THERETO. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A TRENCH SAFETY PLAN FOR THIS PROJECT.
25. 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.
26. THE CONTRACTOR SHALL KEEP RECORDS FOR AS-BUILTS DRAWINGS AND SHALL SUBMIT MARK-UPS TO THE MUNICIPALITY INSPECTOR PRIOR TO SCHEDULING A FINAL WALK THROUGH INSPECTION.
27. PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH REPRESENTATIVES FROM ALL CONTRACTORS, THE ENGINEER, AND THE MUNICIPALITY.
28. ALL CONSTRUCTION MUST ADHERE TO THE TREE PRESERVATION REQUIREMENTS OF THE MUNICIPALITY.
29. THE CONTRACTOR, AND HIS AGENTS, AND SUB-CONTRACTOR, ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER, ENGINEER AND THEIR AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY 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.
30. THE CONTRACTOR 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 MEMA AND NPDES GENERAL PERMIT AS DESCRIBED IN THE FEDERAL REGISTER, PAGES 36489 THROUGH 36519.

GENERAL NOTES FOR PAVING IMPROVEMENTS

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 SEWER SERVICES AND WATER VALVES 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 ODOT 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.

GENERAL NOTES FOR SANITARY SEWER IMPROVEMENTS

1. SANITARY SEWER PVC PIPE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
2. 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.
3. ONE 20 FT. JOINT OF 150-PSI PRESSURE RATED PIPE SHALL BE INSTALLED AND CENTERED UNDER ALL PROPOSED WATER PIPE CROSSINGS.
4. CONTRACTOR TO PLACE A 3/4" PLYWOOD FALSE BOTTOM IN ALL SANITARY SEWER MANHOLES BEFORE PAVING CONTRACTOR BEGINS WORK.
5. ANY CONNECTION TIE-IN TO AN EXISTING MANHOLE MUST BE CORED.
6. ALL CLEAN-OUTS TO BE PROVIDED PER MUNICIPAL REQUIREMENTS.

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 8.25%, MUST HAVE HANDRAILS. NO SLOPE GREATER THAN 8.25% 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 OS 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.

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JUSTIN DUCK

EXPRESS OIL - WAGONER, OK

CONSTRUCTION DRAWINGS
300 S DEWEY AVENUE
WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA

05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-CS1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	05-01-2026

SHEET

GENERAL NOTES

C0.01

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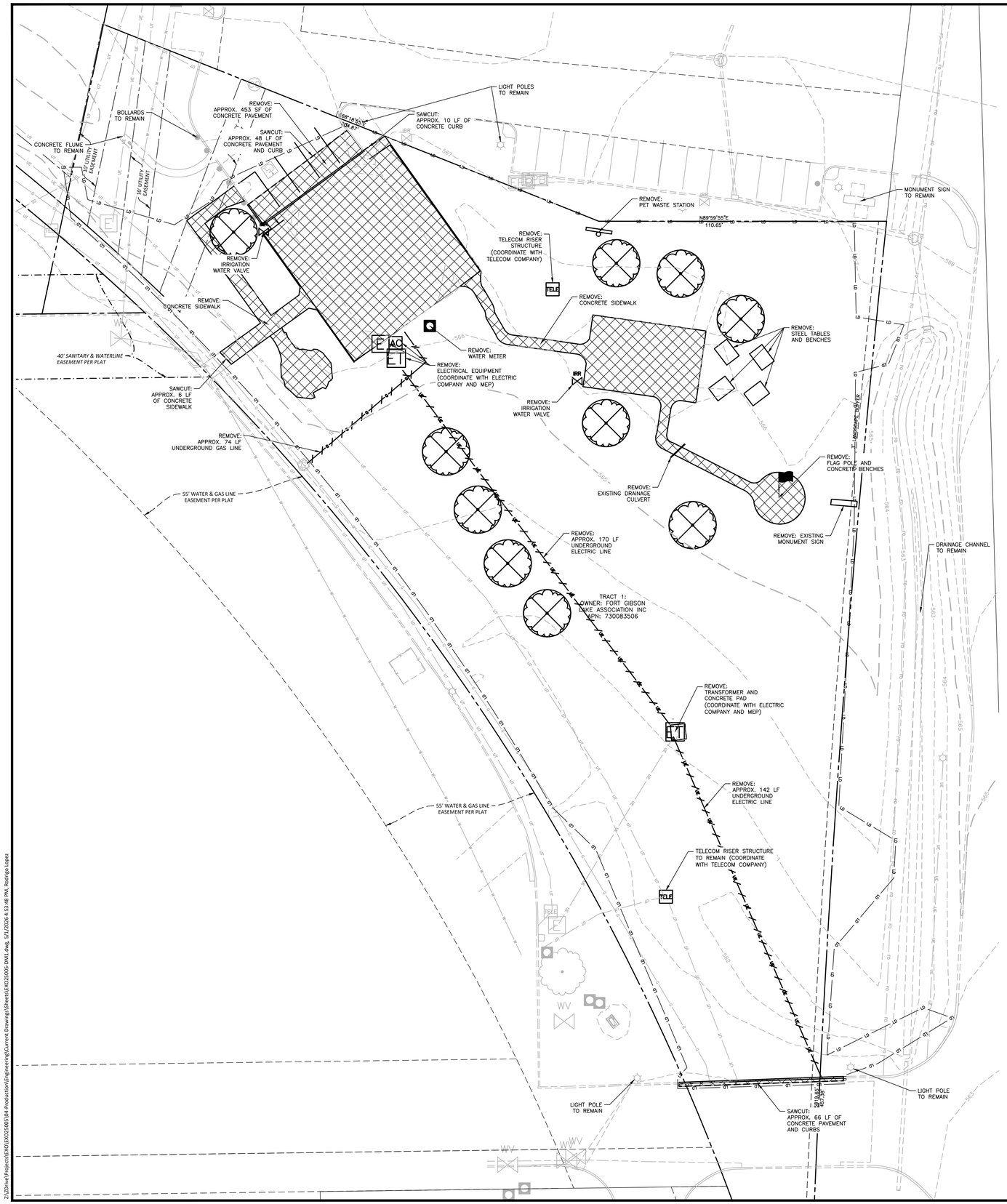

SITE DATA TABLE	
PHYSICAL ADDRESS	300 S DEWEY AVE
GROSS SITE AREA	1.43 AC
NET SITE AREA	1.43 AC
ZONING	REGIONAL COMMERCIAL (C-3)
CURRENT USE	VISITOR'S CENTER
PROPOSED USE	AUTOMOTIVE REPAIR AND MAINTANCE

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
MAG NAIL N: 358644.911 E:2739283.301 Z: 561.909

TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
MAG NAIL N: 359059.999 E: 2738298.719 Z: 561.719

DEMOLITION LEGEND

- TREE — 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
- 563 — EXISTING MINOR CONTOUR
- 565 — EXISTING MAJOR CONTOUR
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTURBANCE

EXISTING UTILITIES LEGEND

- EXISTING WATER METER
- WV — EXISTING WATER VALVE
- IRR — EXISTING IRRIGATION WATER VALVE
- S — EXISTING SANITARY SEWER MANHOLE
- CO — EXISTING SANITARY CLEAN OUT
- D — EXISTING STORM DRAIN MANHOLE
- EXISTING LIGHT POLE
- AC — EXISTING A/C UNIT
- E — EXISTING ELECTRICAL BOX
- ET — EXISTING TRANSFORMER
- EPB — EXISTING ELECTRIC PULL BOX
- T — EXISTING TELECOM BOX
- G — EXISTING GAS METER
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- UE — EXISTING UNDERGROUND ELECTRIC
- UT — EXISTING UNDERGROUND TELECOM
- FO — EXISTING UNDERGROUND FIBER OPTIC LINE
- G — EXISTING GAS LINE

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 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.
13. 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.
14. 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.
15. ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT.
16. 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.
17. STOCKPILE LOCATIONS OF ALL MATERIALS SLATED TO BE REUSED OR REPURPOSED SHALL BE IDENTIFIED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO STARTING LAND DISTURBING ACTIVITY, DEMOLITION, OR CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE IN THE REMOVAL, RELOCATION, AND/OR STORAGE OF OWNER OWNED SITE FURNISHINGS SCHEDULED TO BE SALVAGED.
19. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
20. EROSION CONTROL MATTING SHALL BE PLACED ON SLOPES GREATER THAN 4:1.
21. 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% (5:1) OR GREATER. ESTABLISHMENT OF GRASS THROUGH PROPER WATERING IS LEFT UP TO THE CONTRACTOR'S MEANS AND METHODS, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE/IRRIGATION DRAWINGS.
22. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACEMENT OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THIS PROJECT.
23. 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.
24. CONTRACTOR TO CONFIRM LOCATION OF PROPOSED ELECTRICAL SERVICE, TRANSFORMER LOCATION, PAD CONSTRUCTION REQUIREMENTS AND CLEARANCES. LEAD TIMES WITH POWER COMPANY PRIOR TO CONSTRUCTION.
25. CONTRACTOR TO CONFIRM WITH OWNER AND CONSTRUCTION REQUIREMENTS OF GAS, TELEPHONE, COMMUNICATIONS WITH OWNER AND UTILITY PROVIDER NOT SHOWN ON PLANS PRIOR TO ANY CONSTRUCTION.
26. EXISTING CONDITIONS WERE COMPILED FROM A SURVEY OF THE SITE PREPARED BY GOLDEN LAND SURVEYING, DATED 10/08/2025, REVISED 11/19/2025. 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.

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

ISSUE FOR CONSTUCTION

McADAMS
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JUSTIN DUCK

EXPRESS OIL - WAGONER, OK
CONSTRUCTION DRAWINGS
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WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-DM1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

EXISTING CONDITIONS & DEMOLITION PLAN

C1.00

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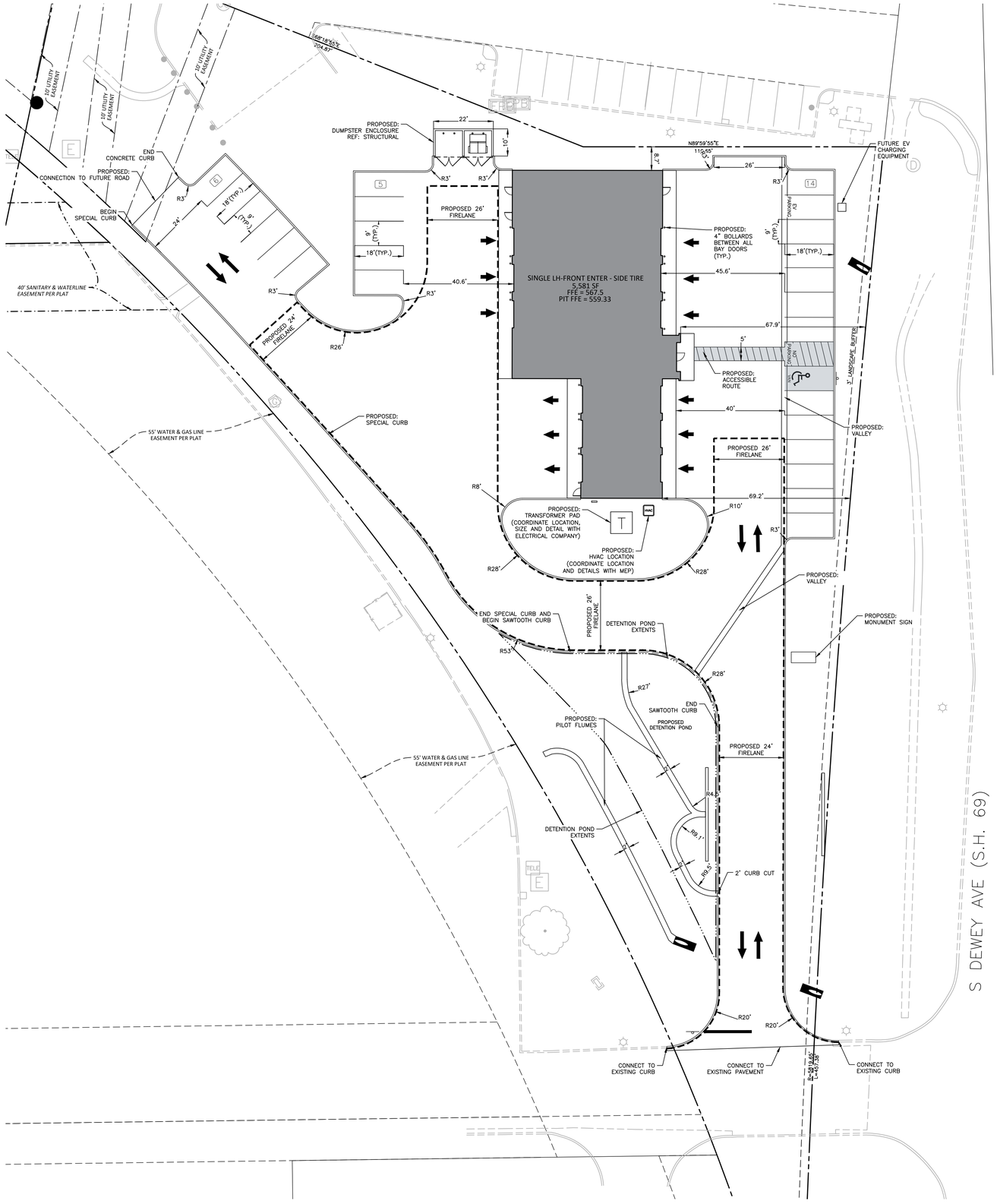

SITE DATA TABLE		
PHYSICAL ADDRESS		300 S DEWEY AVE
GROSS SITE AREA		1.43 AC
NET SITE AREA		1.43 AC
ZONING		REGIONAL COMMERCIAL (C-3)
CURRENT USE		VISITOR'S CENTER
PROPOSED USE		AUTOMOTIVE REPAIR AND MAINTANCE
FRONT SETBACK		0'
SIDE SETBACK		0'
REAR SETBACK		0'
LOT COVERAGE DATA		
DISTURBED AREA		1.32 AC
IMPERVIOUS AREA	0.80 AC	56.25%
PERVIOUSE AREA	0.63 AC	43.75%
PARKING SUMMARY		
REQUIRED PARKING	1 STALL PER 400 SF	5,581 SF/ 400SF PER STALL = 14
REQUIRED ACCESSIBLE STALLS		1 STALLS
STANDARD STALLS PROVIDED		24 STALLS
ACCESSIBLE STALLS PROVIDED		1 STALLS
TOTAL STALLS PROVIDED		25 STALLS
BUILDING DATA		
BUILDING FOOTPRINT AREA		5,581 SF
NUMBER OF BUILDING STORIES		1
TOTAL BUILDING SQUARE FOOTAGE		5,581 SF
NUMBER OF SERVICE BAYS		9

EXISTING SITE LEGEND

- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY CLEAN OUT
- EXISTING STORM DRAIN MANHOLE
- EXISTING LIGHT POLE
- EXISTING A/C UNIT
- EXISTING ELECTRICAL BOX
- EXISTING ELECTRIC PULL BOX
- EXISTING TRANSFORMER
- EXISTING TELECOM RISER STRUCTURE
- EXISTING GAS METER
- EXISTING TREE

SITE LEGEND

- PROPERTY LINE
- LANDSCAPE BUFFER
- FIRELANE
- CURB
- DETENTION POND EXTENTS
- STOP BAR
- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- VAN — VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- GRATE INLET
- HEADWALL

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
MAG NAIL N: 358644.911 E:2739283.301 Z: 561.909

TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
MAG NAIL N: 359059.999 E: 2738298.719 Z: 561.719

SITE PLAN NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REVIEWING AUTHORITY AND/OR ODOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
4. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
5. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
6. CONTRACTOR SHALL NOTIFY OKLAHOMA (811) OR 1-800-522-6543 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 OKIE811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATIONS (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
8. PRIOR TO BEGINNING CONSTRUCTION BEYOND EROSION CONTROL MEASURES, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE REVIEWING AUTHORITY PUBLIC WORKS DEPARTMENT AND A REPRESENTATIVE OF THE ENGINEER AND OWNER IF REQUIRED. THE PURPOSE OF THIS MEETING IS TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THE FACILITIES DURING CONSTRUCTION.
9. 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 CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
10. TRUNCATED DOMES ABUTTING PAVEMENT SHALL BE A CONTRASTING COLOR FROM THE ADJACENT PAVEMENT.
11. 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.
12. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
13. IF UNFORESEEN CONDITIONS DEVELOP DURING CONSTRUCTION, REFER TO THE LATEST VERSION OF REVIEWING AUTHORITY AND OKLAHOMA SPECIFICATIONS AND STANDARDS
14. 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.
15. CONTRACTOR TO CONFIRM LOCATION OF PROPOSED ELECTRICAL SERVICE, TRANSFORMER LOCATION, PAD CONSTRUCTION REQUIREMENTS AND CLEARANCES. LEAD TIMES WITH POWER COMPANY PRIOR TO CONSTRUCTION
16. CONTRACTOR TO CONFIRM WITH OWNER AND UTILITY PROVIDER ON REQUIREMENTS OF GAS, TELEPHONE, COMMUNICATIONS NOT SHOWN ON PLANS PRIOR TO ANY CONSTRUCTION.
17. 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.

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

ISSUE FOR CONSTUCTION

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LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-S1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

ENGINEERING SITE PLAN

C2.00

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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)

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
MAG NAIL N: 358644.911 E:2739283.301 Z: 561.909

TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
MAG NAIL N: 359059.999 E: 2738298.719 Z: 561.719

GENERAL 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% (1:48). RAMP CONDITIONS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 8.33% (1:12) AND A MAXIMUM CROSS SLOPE OF 2% (1:48). 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% (1:48). 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 [1.75%] 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 3:1 (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.
15. ALL UNDERGROUND UTILITIES REQUIRE AS-BUILT SURVEY. GENERAL CONTRACTOR RESPONSIBLE TO COORDINATE WITH LOCAL AHJ ON AS-BUILT REQUIREMENTS.

N

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

ISSUE FOR CONSTUCTION

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LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-G1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

GRADING PLAN

C3.00

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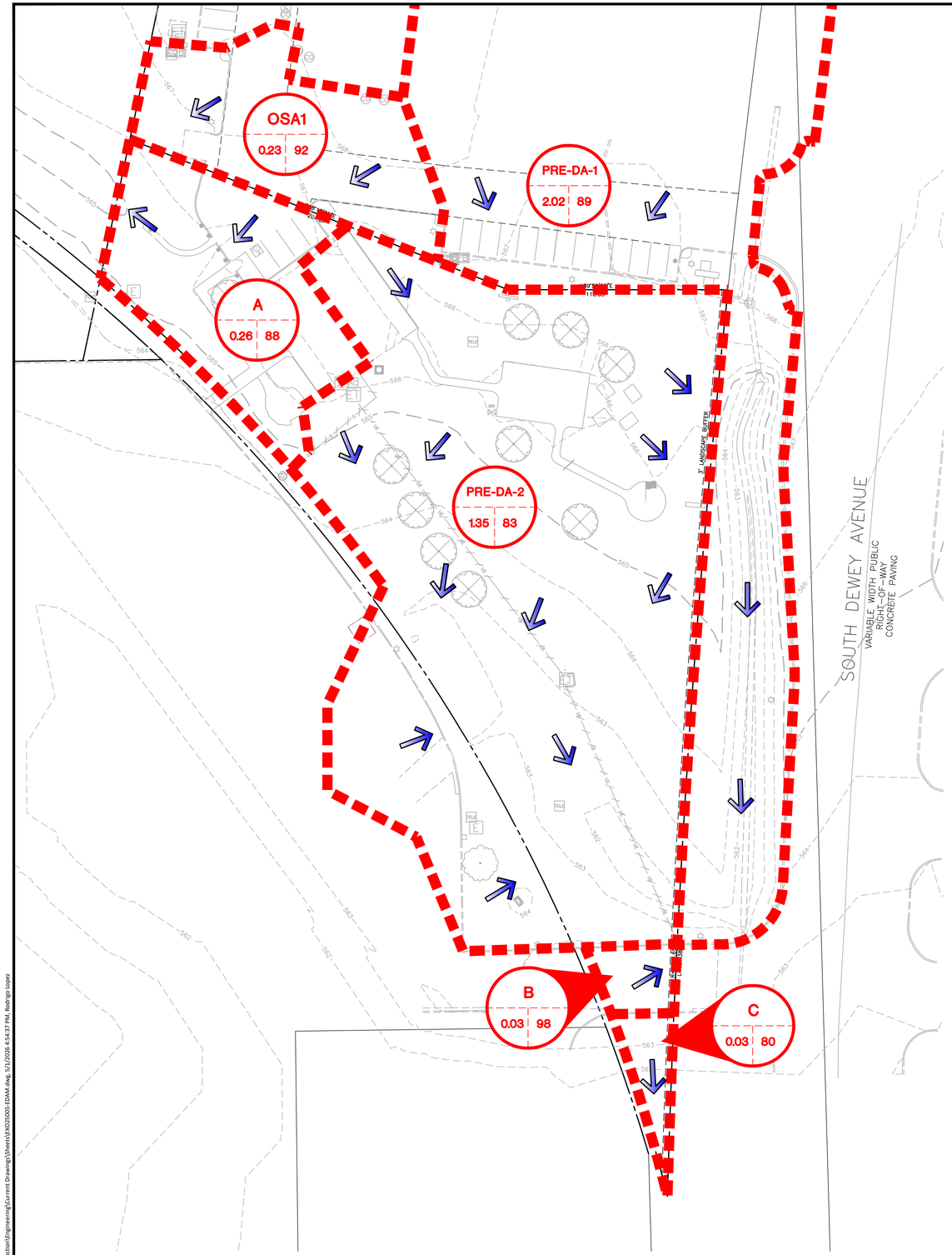

LEGEND

X
100 85

DRAINAGE AREA ID
DRAINAGE AREA IN ACRES
CN VALUE
PROPERTY LINE
DRAINAGE AREA LIMITS
DRAINAGE ARROW

WEIGHTED CN VALUES					
Drainage Area	Grass (sf) 80.00	Building (sf) 98.00	Pavement (sf) 98.00	Total Area (sf)	Weighted CN Value
A	6227.51	1202.25	4110.12	11539.88	**88**
B	N/A	N/A	1333.37	1333.37	**98**
C	1354.07	N/A	N/A	1354.07	**80**
OSA1	3088.59	N/A	6988.61	10077.20	**92**
PRE-DA-1	44053.56	7449.4334	36486.976	87989.97	**89**
PRE-DA-2	49548.88	2245.1111	7092.90	58886.89	**83**
TOTAL	104272.61	10896.79	56011.98	171181.38	**87**

Formula:

$$\frac{(\text{Grass SF}*80)+(\text{Building SF}*98)+(\text{Pavement SF}*98)}{\text{Total Area SF}}$$

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

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PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-EDAM
CHECKED BY	DA
DRAWN BY	KZ
SCALE	1" = 30'
DATE	05-01-2026

SHEET

EXISTING DRAINAGE AREA MAP

C3.01

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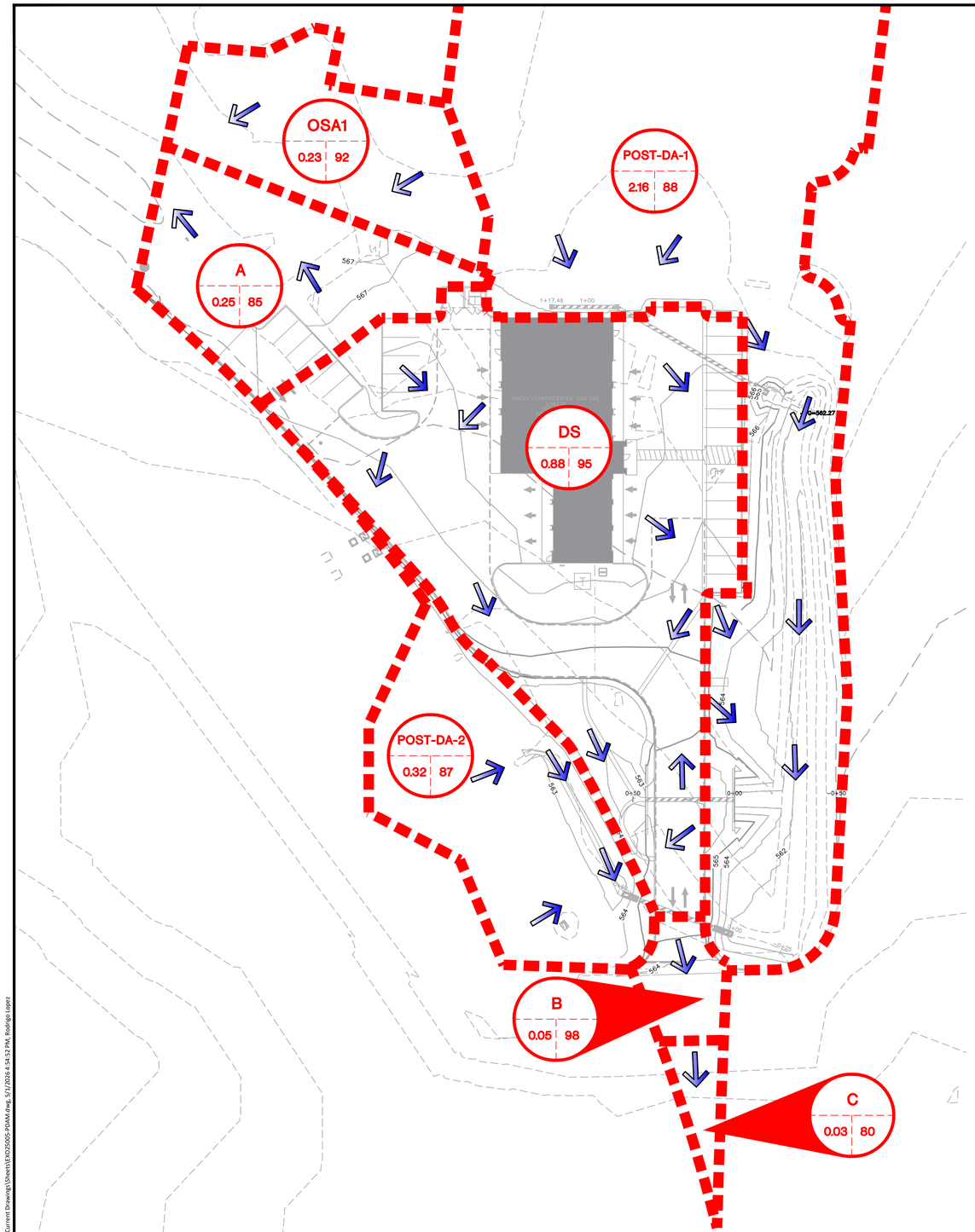
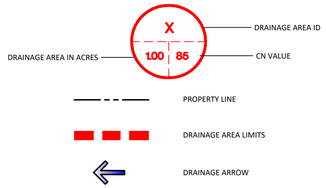


LEGEND



WEIGHTED CN VALUES					
Drainage Area	Grass (sf) 80.00	Building (sf) 98.00	Pavement (sf) 98.00	Total Area (sf)	Weighted CN Value
A	7633.40	N/A	3260.26	10893.67	**85**
B	N/A	N/A	2126.69	2126.69	**98**
C	1358.11	N/A	N/A	1358.11	**80**
OSA1	3088.59	N/A	6988.61	10077.20	**92**
POST-DA-1	49982.66	7449.43	36486.98	93919.07	**88**
POST-DA-2	8446.19	N/A	5647.02	14093.21	**87**
Developed Site (DS)	6350.57	5585.76	26395.22	38331.5515	**95**
TOTAL	226534.93	44779.82	254963.32	526002.07	**90**

Formula: $\frac{\text{(Grass SF*80)+(Building SF*98)+(Pavement SF*98)}}{\text{Total Area SF}}$

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

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LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

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PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-PDAM
CHECKED BY	DA
DRAWN BY	KZ
SCALE	1" = 30'
DATE	05-01-2026

SHEET

PROPOSED DRAINAGE AREA MAP

C3.02

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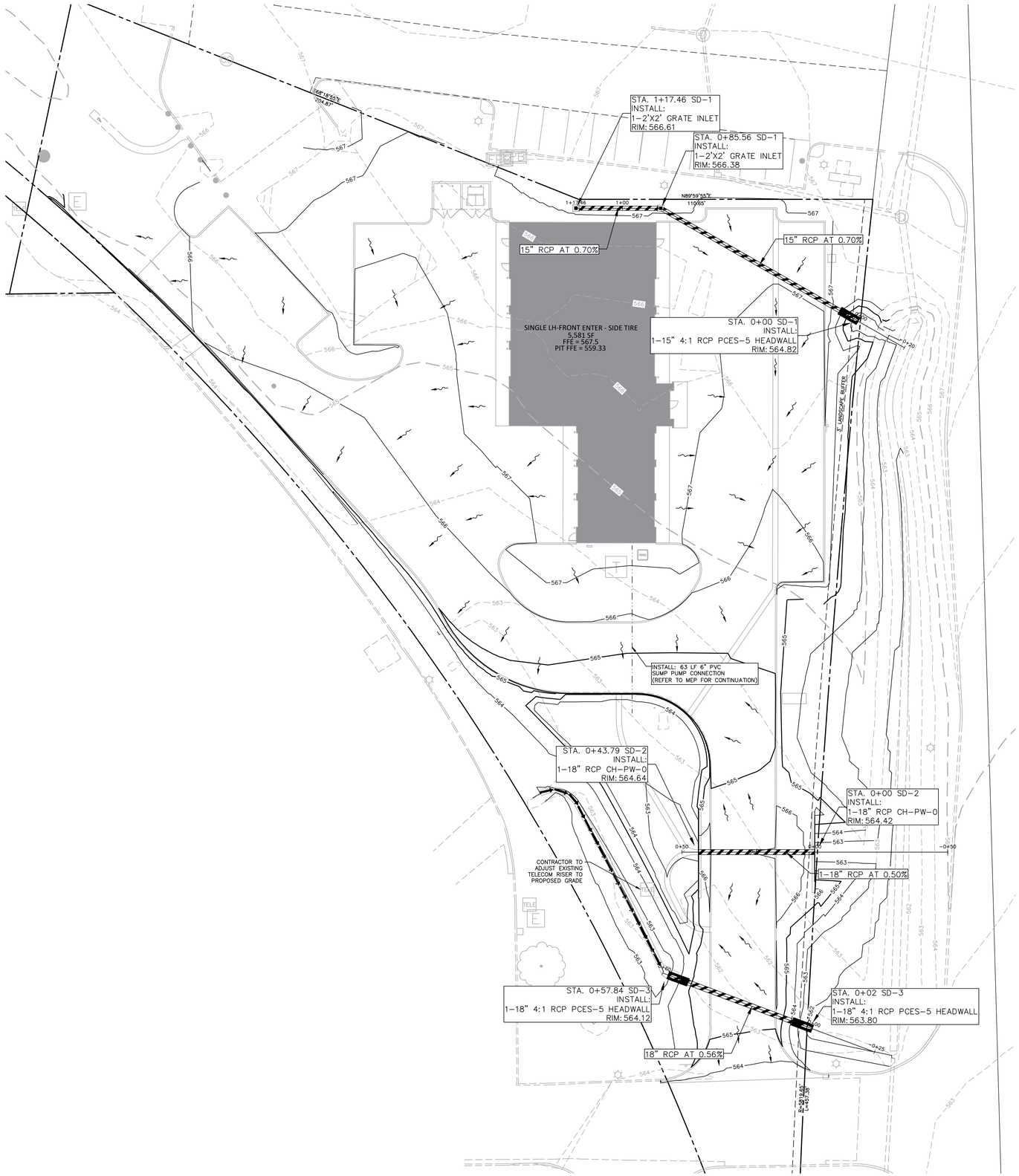

STORM LEGEND

- EXISTING STORM MH
- GRATE INLET
- HEADWALL
- 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

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
MAG NAIL N: 358644.911 E:2739283.301 Z: 561.909

TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
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GENERAL NOTES:

1. 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.
2. 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.
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7. CONTRACTOR TO FOLLOW DRAINAGE PATTERNS AND INSTALL SPILL CURB WHERE APPROPRIATE.
8. ALL UNDERGROUND UTILITIES REQUIRE AS-BUILT SURVEY. GENERAL CONTRACTOR RESPONSIBLE TO COORDINATE WITH LOCAL AHJ ON AS-BUILT REQUIREMENTS.

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

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05/01/2026

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2	03. 30. 2026	REVISIONS PER CITY COMMENTS

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-G1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

STORM PLAN

C3.03

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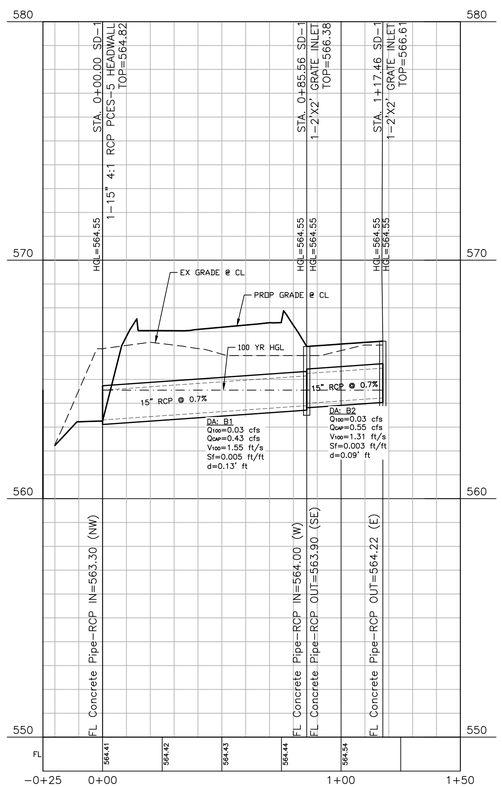
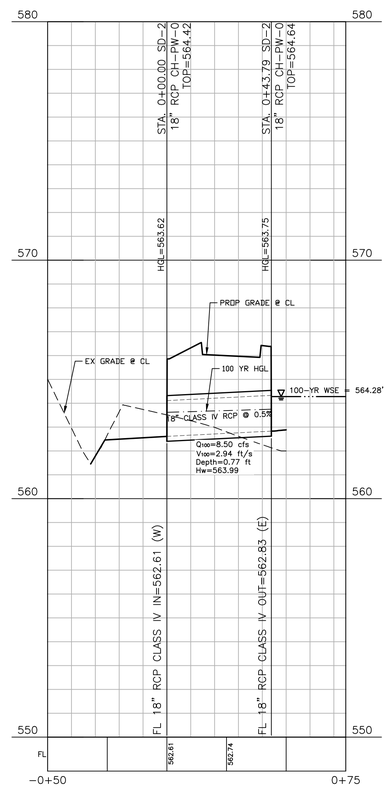
SD-1



SD-2



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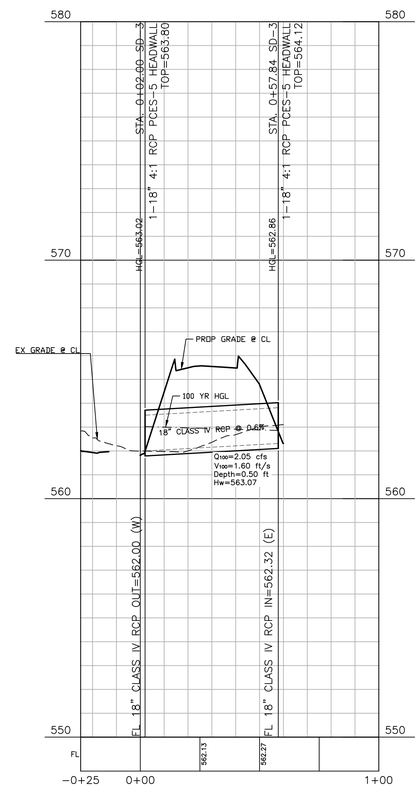

GRAPHIC SCALE
0 15 30 60
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PLAN INFORMATION

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FILENAME	EXO25005-G1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 30'
DATE	05-01-2026

SHEET

STORM PROFILES

C3.04

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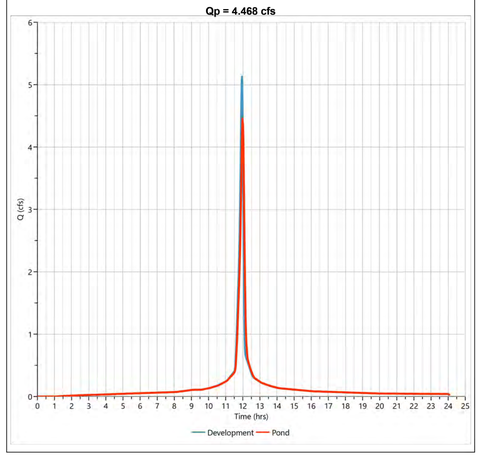
Hydrograph Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

Pond — **Hyd. No. 5**

Hydrograph Type	= Pond Route	Peak Flow	= 4.468 cfs
Storm Frequency	= 2-yr	Time to Peak	= 12.00 hrs
Time Interval	= 1 min	Hydrograph Volume	= 12,279 cuft
Inflow Hydrograph	= 2 - Development	Max. Elevation	= 563.59 ft
Pond Name	= Wagoner	Max. Storage	= 862 cuft

Pond Routing by Storage Indication Method — *Center of mass detention time = 15 min*



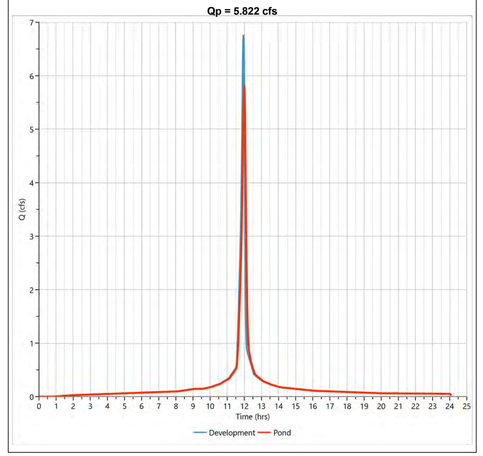
Hydrograph Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

Pond — **Hyd. No. 5**

Hydrograph Type	= Pond Route	Peak Flow	= 5.822 cfs
Storm Frequency	= 5-yr	Time to Peak	= 12.00 hrs
Time Interval	= 1 min	Hydrograph Volume	= 16,348 cuft
Inflow Hydrograph	= 2 - Development	Max. Elevation	= 563.75 ft
Pond Name	= Wagoner	Max. Storage	= 1,202 cuft

Pond Routing by Storage Indication Method — *Center of mass detention time = 17 min*



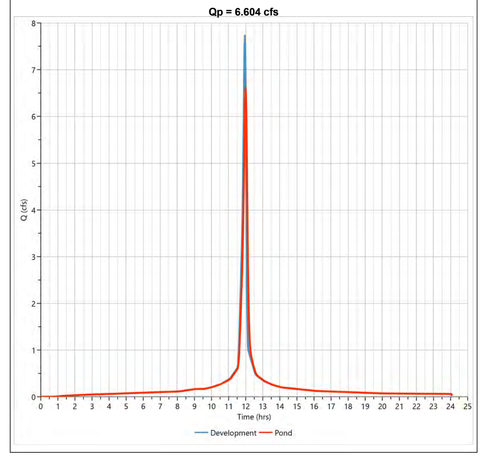
Hydrograph Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

Pond — **Hyd. No. 5**

Hydrograph Type	= Pond Route	Peak Flow	= 6.604 cfs
Storm Frequency	= 10-yr	Time to Peak	= 12.00 hrs
Time Interval	= 1 min	Hydrograph Volume	= 18,791 cuft
Inflow Hydrograph	= 2 - Development	Max. Elevation	= 563.85 ft
Pond Name	= Wagoner	Max. Storage	= 1,418 cuft

Pond Routing by Storage Indication Method — *Center of mass detention time = 18 min*



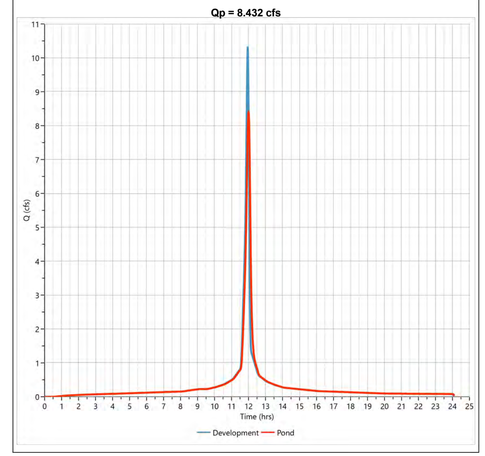
Hydrograph Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

Pond — **Hyd. No. 5**

Hydrograph Type	= Pond Route	Peak Flow	= 8.432 cfs
Storm Frequency	= 50-yr	Time to Peak	= 12.00 hrs
Time Interval	= 1 min	Hydrograph Volume	= 25,308 cuft
Inflow Hydrograph	= 2 - Development	Max. Elevation	= 564.12 ft
Pond Name	= Wagoner	Max. Storage	= 2,069 cuft

Pond Routing by Storage Indication Method — *Center of mass detention time = 26 min*



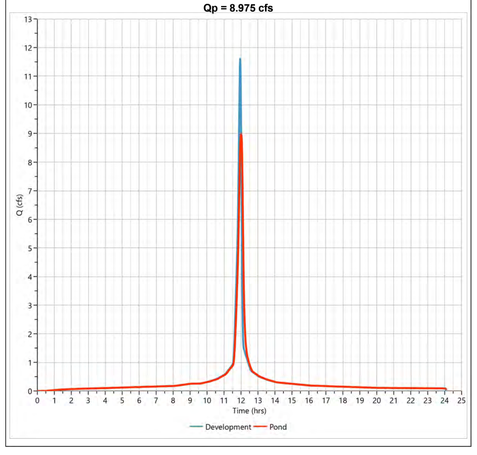
Hydrograph Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

Pond — **Hyd. No. 5**

Hydrograph Type	= Pond Route	Peak Flow	= 8.975 cfs
Storm Frequency	= 100-yr	Time to Peak	= 12.00 hrs
Time Interval	= 1 min	Hydrograph Volume	= 28,567 cuft
Inflow Hydrograph	= 2 - Development	Max. Elevation	= 564.28 ft
Pond Name	= Wagoner	Max. Storage	= 2,470 cuft

Pond Routing by Storage Indication Method — *Center of mass detention time = 36 min*



Pond Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

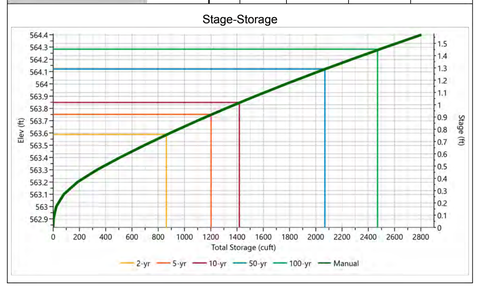
Wagoner — **Stage-Storage**

User Defined Storage

Description	Input
Bottom Elevation, ft	562.83

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour Area (sqft)	Incr. Storage (cuft)	Total Storage (cuft)
0.00	562.83	n/a	0.000	0.000
0.07	562.90	n/a	2.43	2.43
0.17	563.00	n/a	20.8	23.2
0.27	563.10	n/a	57.8	81.0
0.37	563.20	n/a	105	186
0.47	563.30	n/a	149	335
0.57	563.40	n/a	174	509
0.67	563.50	n/a	187	696
0.77	563.60	n/a	197	892
0.87	563.70	n/a	207	1,099
0.97	563.80	n/a	216	1,315
1.07	563.90	n/a	225	1,540
1.17	564.00	n/a	235	1,775
1.27	564.10	n/a	244	2,020
1.37	564.20	n/a	254	2,273
1.47	564.30	n/a	262	2,535
1.57	564.40	n/a	269	2,803



Pond Report

Hydrology Studio v 3.0.0.41 — File: pre-post.hys — 01-15-2026

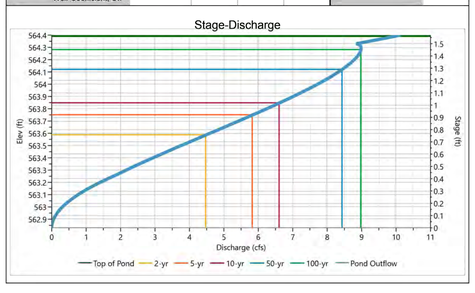
Wagoner — **Stage-Discharge**

Culvert / Orifices	Cir Culvert	Orifice 1	Orifice 2	Orifice 3
Rise, in	18			
Span, in	18			
No. Barrels	2			
Invert Elevation, ft	562.83			
Orifice Coefficient, Co	0.60			
Length, ft	45			
Barrel Slope, %	.5			
N-Value, n	0.013			

Weirs	Riser	Weir 1	Weir 2	Weir 3
Shape / Type				
Crest Elevation, ft				
Crest Length, ft				
Angle, deg				
Weir Coefficient, Cw				

Perforated Riser	
Hole Diameter, in	
No. holes	
Invert Elevation, ft	
Height, ft	
Orifice Coefficient, Co	

Ancillary	
Exfiltration, in/hr	



Underground Detention Summary

Design Storm	Stage (ft)	Storage (cf)	Target Release Rate (cfs)	Design Release Rate (cfs)
	562.82	0	0	0
2	563.59	862	4.01	4.47
5	563.75	1,202	5.71	5.82
10	563.85	1,418	6.74	6.60
50	564.12	2,069	9.46	8.43
100	564.28	2,470	10.81	8.98

GENERAL NOTES:

1. DETENTION CALCULATIONS WERE CONDUCTED USING THE SCS METHOD PER CITY OF WAGONER REQUIREMENTS.
2. TARGET DISCHARGE FOR THE REQUIRED DESIGN STORMS WAS DETERMINED FROM THE PRE-DEVELOPMENT FLOWS FOR THE AREA BEING DEVELOPED.
3. THE POND WAS DESIGNED TO DETAIN FOR THE 2, 5, 10, 50 AND 100 YEAR STORMS AND ENSURE THAT RELEASE RATES DO NOT EXCEED THE TARGET RELEASE RATE BY MORE THAN 0.5 CFS.

MCADAMS

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WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER — DARREN ANDREWS — 25761 — OKLAHOMA

05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	05-01-2026

SHEET

DETENTION CALCULATIONS

C3.05

ISSUE FOR CONSTUCTION

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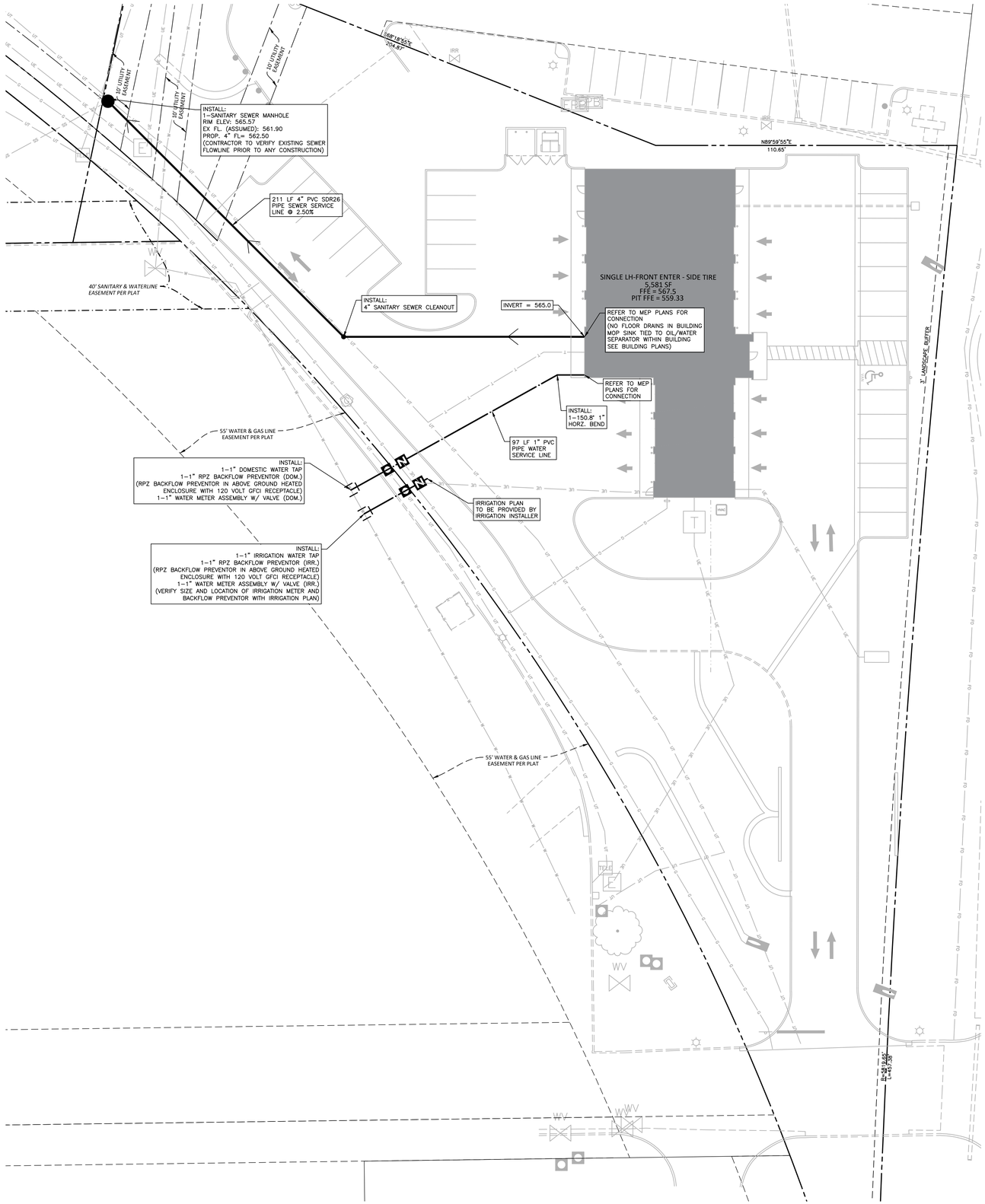

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
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TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
MAG NAIL N: 359059.999 E: 2738298.719 Z: 561.719

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
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- EXISTING STORM DRAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELECOM
- EXISTING GAS LINE

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3. 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 IMMEDIATELY.
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5. CONTRACTOR SHALL NOTIFY "OKIE811" (811) OR 1-800-522-6543 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 "OKIE811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
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14. PAVEMENT CUTS ARE TO BE REPLACED IMMEDIATELY AFTER BACKFILLING OF INITIAL CUT EITHER WITH A PERMANENT REPLACEMENT OR A TEMPORARY REPLACEMENT OF 10'' OF BASE IF CITY HAS BEEN CONTRACTED FOR PAVEMENT REPLACEMENT.
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GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

ISSUE FOR CONSTUCTION

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LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-U1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

WATER AND SEWER PLAN

C4.00

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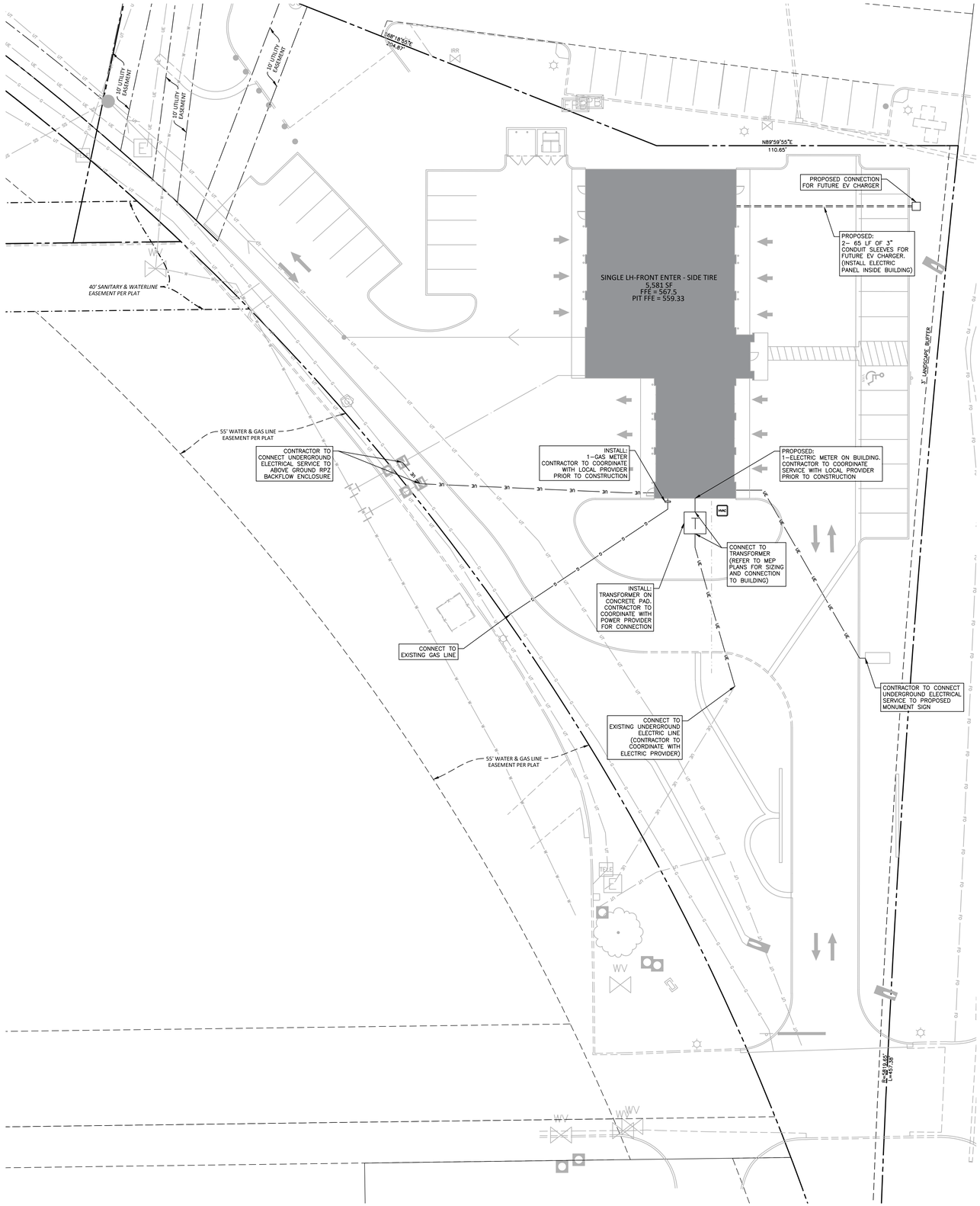

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- SEWER CLEAN-OUT
- SEWER MANHOLE
- TRANSFORMER PAD

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

ISSUE FOR CONSTUCTION

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OKLAHOMA

05/01/2026

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3		
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6		

PLAN INFORMATION

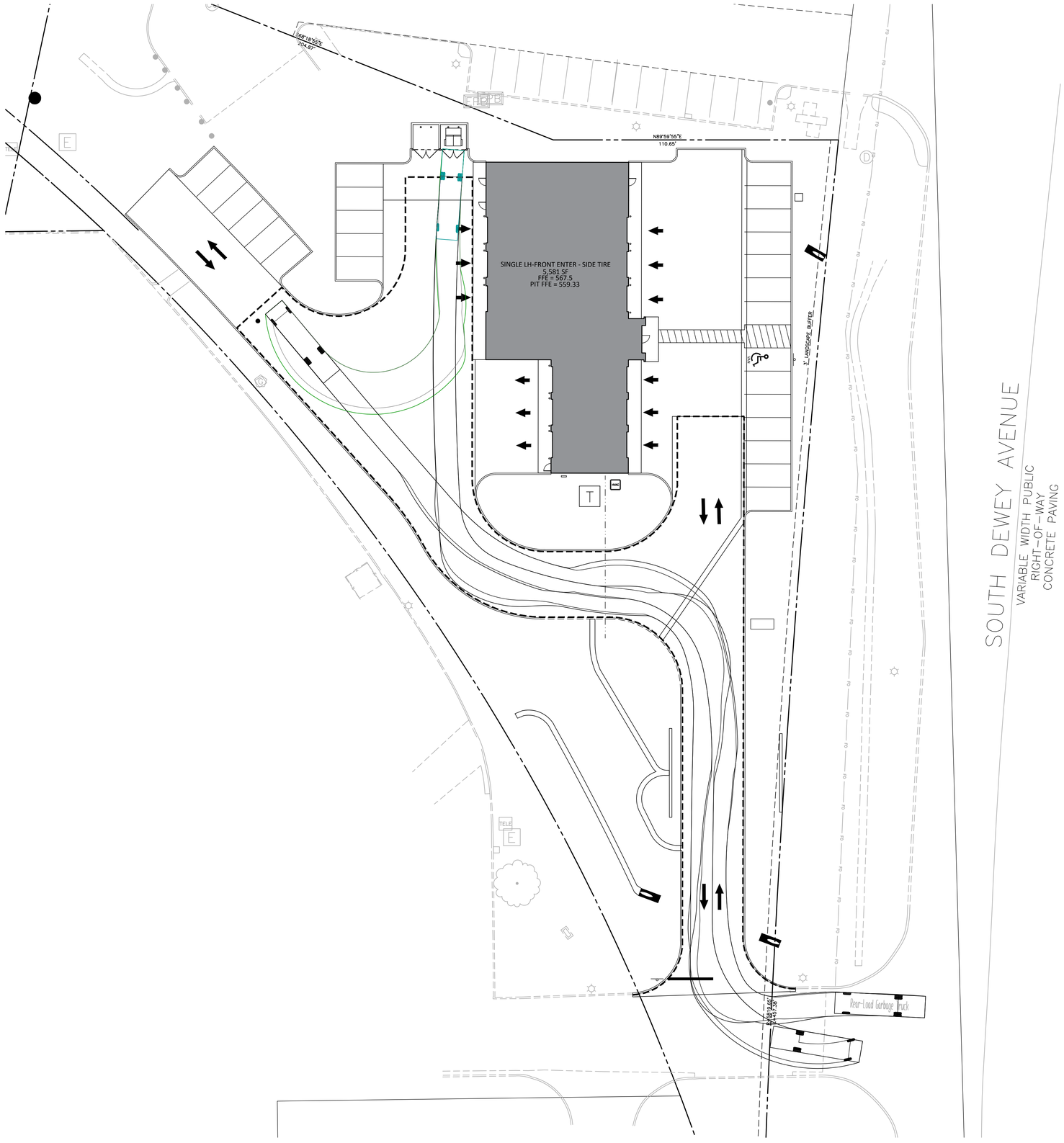
PROJECT NO.	EXO25005
FILENAME	EXO25005-U2
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

FRANCHISE UTILITY PLAN

C4.01

Z:\ZDrive\Projects\EXO\EXO25005\04-Production\Engineering\Current Drawings\Sheets\EXO25005-U2.dwg, 5/1/2026 4:56:29 PM, Rodrigo Lopez



BENCHMARKS:

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TBM 4:
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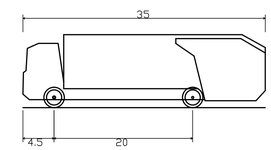
VEHICLE USED FOR SIMULATION



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

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

ISSUE FOR CONSTUCTION

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PLAN INFORMATION

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FILENAME	EXO25005-E1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

GARBAGE TRUCK TURN EXHIBIT

C5.00

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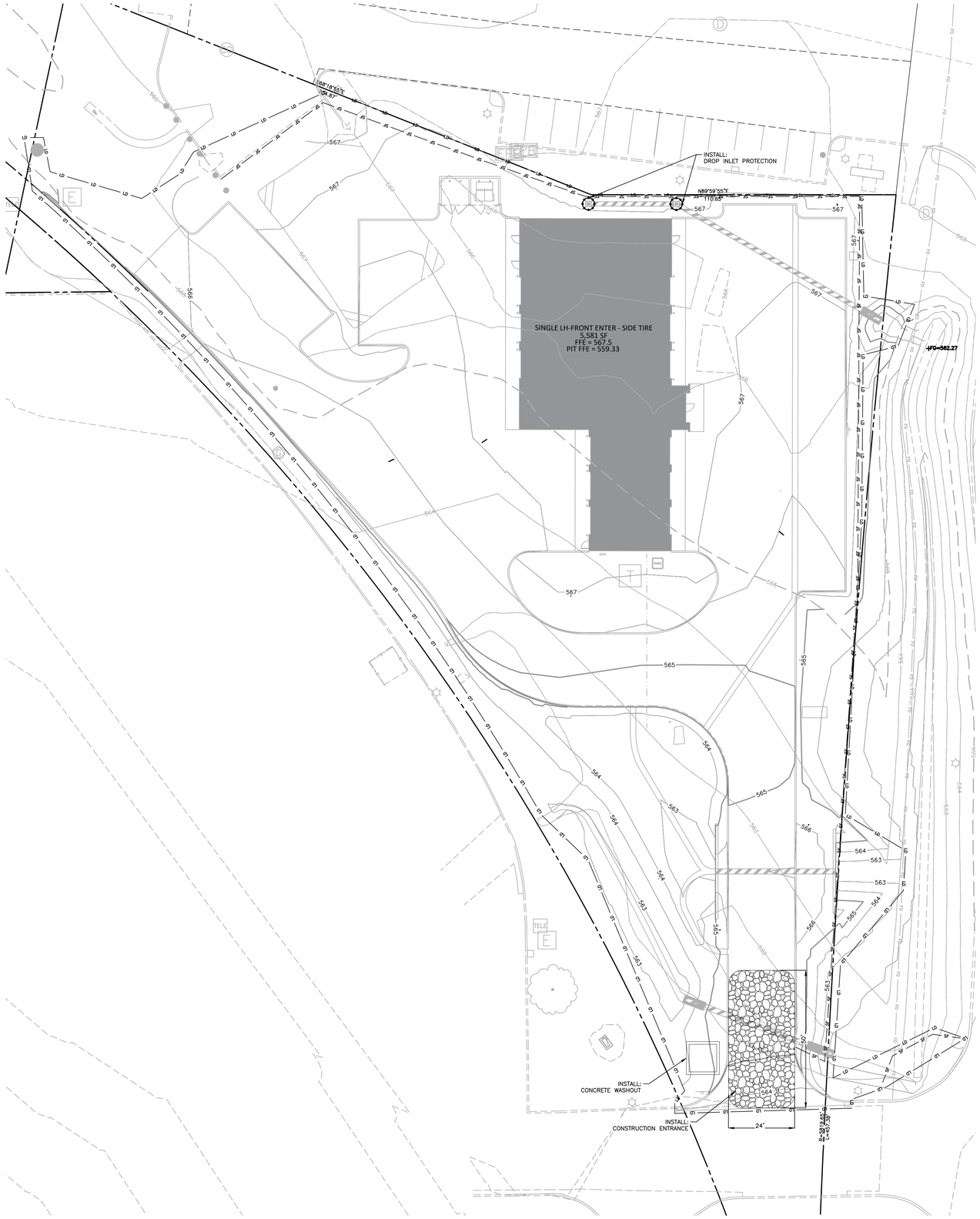

EROSION CONTROL LEGEND

- DROP INLET PROTECTION
- CONCRETE WASHOUT PIT
- SILT FENCE
- LIMITS OF DISTURBANCE
- CONSTRUCTION ENTRANCE/EXIT

STAGE 1 SPECIFIC SEQUENCE

1. PRIOR TO ANY CONSTRUCTION TAKING PLACE, A STORM WATER POLLUTION PROTECTION PLAN (SWPPP) MUST BE COMPLETED WITH A COPY RECEIVED BY THE TOWN. THE SUBDIVIDER/DEVELOPER SHALL SUBMIT A PLAN AND SCHEDULE FOR SOIL EROSION AND SEDIMENTATION CONTROL TO THE PUBLIC WORKS SUPERVISOR FOR APPROVAL.
2. THE SUBDIVIDER/DEVELOPER SHALL PROVIDE NECESSARY EROSION CONTROL SUCH AS SEEDING FOR GENTLE SLOPES, GRASS SOD FOR SHARPER SLOPES, WITH SPECIAL GRADING AND TERRACING IN ACCORDANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS SUPERVISOR AND PLANNING COMMISSION.
3. ALL FRESHLY EXCAVATED EMBANKMENT AREAS NOT COVERED WITH SATISFACTORY VEGETATION SHALL BE FERTILIZED, MULCHED, AND SEEDED AND/OR SHALL HAVE LAID SOD AS REQUIRED TO PREVENT EROSION.
4. PROVISIONS SHALL BE MADE TO ACCOMMODATE INCREASED RUNOFF CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS DURING DEVELOPMENT. RUNOFF SHALL BE INTERCEPTED AND SAFELY CONVEYED TO STORM DRAINS OR NATURAL OUTLETS WHERE IT WILL NOT ERODE OR FLOOD LAND. SEDIMENT BASINS SHALL BE INSTALLED AND MAINTAINED TO COLLECT SEDIMENT FROM RUNOFF WATERS.
5. IF THE PUBLIC WORKS SUPERVISOR DETERMINES THAT THE NECESSARY EROSION CONTROL IS NOT BEING PROVIDED BY THE SUBDIVIDER/DEVELOPER, THE PUBLIC WORKS SUPERVISOR SHALL OFFICIALLY NOTIFY THE SUBDIVIDER/DEVELOPER OF THE PROBLEM. IF THE SUBDIVIDER/DEVELOPER HAS NOT BEGUN TO PROVIDE SATISFACTORY EROSION CONTROL WITHIN 15 DAYS AFTER THE NOTICE, THE TOWN SHALL MAKE THE NECESSARY IMPROVEMENTS TO ELIMINATE THE EROSION PROBLEM DOCUMENTING ALL EXPENSES INCURRED.
6. PRIOR TO RELEASE OF THE SURETY INSTRUMENT, ALL EXPENSES INCURRED BY THE TOWN SHALL BE PAID IN FULL BY THE SUBDIVIDER/DEVELOPER.
7. CONTRACTOR TO PROVIDE ODEQ CERTIFIED EROSION CONTROL INSPECTOR AND INSPECTOR TO INSPECT THE SITE PER ODEQ REQUIREMENTS AND PROVIDE COPIES OF INSPECTION REPORTS TO DEVELOPER, ENGINEER, AND EROSION CONTROL INSPECTOR.
8. SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF WAGONER/ODEQ INSPECTOR.
9. THE PRE-CONSTRUCTION CONFERENCE WILL BE HELD ON-SITE BETWEEN THE LICENSED GENERAL CONTRACTOR, THE OWNER/DEVELOPER, THE ENGINEER NO EARLIER THAN A WEEK BEFORE CONSTRUCTION BEGINS. RECORD OF THIS MEETING WILL BE CONTAINED WITHIN APPENDIX G OF THE OS-SWPPP.
10. NOTIFY ODEQ REGIONAL OFFICE 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
11. INSTALL DRIVEWAY CULVERT THAT CONNECTS SWALE TO EXISTING DRAINAGE DITCH. THIS SHALL BE DONE BEFORE CONSTRUCTION ENTRANCE IS DONE.
12. INSTALL CONSTRUCTION ENTRANCE, SILT FENCING, TREE PROTECTION FENCING, SILT FENCE OUTLETS AND INLET PROTECTION AS SHOWN ON APPROVED EROSION CONTROL PLAN. GRADE ONLY AS NECESSARY TO INSTALL THESE DEVICES. INSTALL SILT FENCE OUTLETS AT LOW POINTS IN THE SILT FENCING AS NEEDED TO PREVENT BLOWOUTS.
13. CLEAR REMAINDER OF SITE AND START GENERAL GRADING OPERATIONS WHILE MAINTAINING PREVIOUSLY INSTALLED MEASURES.
14. CONTINUE GENERAL GRADING. MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION.
15. INSTALL, BUILDING PAD, SEWER SERVICES, STORM SEWER, DOMESTIC WATER SERVICES, INLETS AND INLET PROTECTION. AS THE REMAINDER OF THE PARKING LOT IS BROUGHT TO FINAL GRADE.
16. WHEN SITE IS STABILIZED, INSPECTOR TO APPROVE REMOVAL OF CONSTRUCTION ENTRANCE TO ALLOW COMPLETION OF INSTALLATION OF CURB
17. WHEN SITE IS STABILIZED AND PERMANENT DEVICES INSTALLED, REMOVE ANY ACCUMULATED SEDIMENT.
18. REMOVE REMAINDER OF TEMPORARY EROSION CONTROL DEVICES.
19. SUBMIT NOTICE OF TERMINATION (NOT) TO ODEQ AS APPROPRIATE.

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
MAG NAIL N: 358644.911 E:2739283.301 Z: 561.909

TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
MAG NAIL N: 359059.999 E: 2738298.719 Z: 561.719

EROSION CONTROL NOTES

1. NPDES STORMWATER CONSTRUCTION PERMIT - NOTICE OF INTENT/ NOTICE OF COVERAGE NEEDED FROM OKLAHOMA - OPERATORS OF CONSTRUCTION SITES INVOLVING CLEARING, GRADING OR EXCAVATION THAT RESULT IN AN AREA OF DISTURBANCE OF ONE OR MORE ACRES, AND ACTIVITIES THAT RESULT IN THE DISTURBANCE OF LESS THAN ONE ACRE IF IT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SCALE.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) STANDARDS AND SPECIFICATIONS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY EROSION AND SEDIMENT CONTROL MANUAL AND STATE OF OKLAHOMA GENERAL PERMIT FOR SMALL CONSTRUCTION.
3. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE WAGONER EROSION CONTROL DEPARTMENT OR ODOT.
4. CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (STEEPER THAN 3H:1V OR GREATER THAN 50 FT IN LENGTH) WITHIN 7 DAYS, 14 DAYS FOR MODERATE SLOPES (3H:1V OR FLATTER) .
5. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
6. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
7. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY THE (MUNICIPAL) SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
9. CONTRACTOR SHALL INSPECT ALL SEDIMENT / EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
10. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
11. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
12. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
13. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
14. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
15. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
16. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
17. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
18. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND 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.
19. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
20. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
21. SEEDING TO BE PER OKLAHOMA VEGETATION CONTROL PROGRAM AND OKLAHOMA DEPARTMENT OF ENVIRONMENTAL & CONSERVATION HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL

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

ISSUE FOR CONSTUCTION

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EXPRESS OIL - WAGONER, OK
CONSTRUCTION DRAWINGS
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WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-EC1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

EROSION CONTROL PLAN
C6.00

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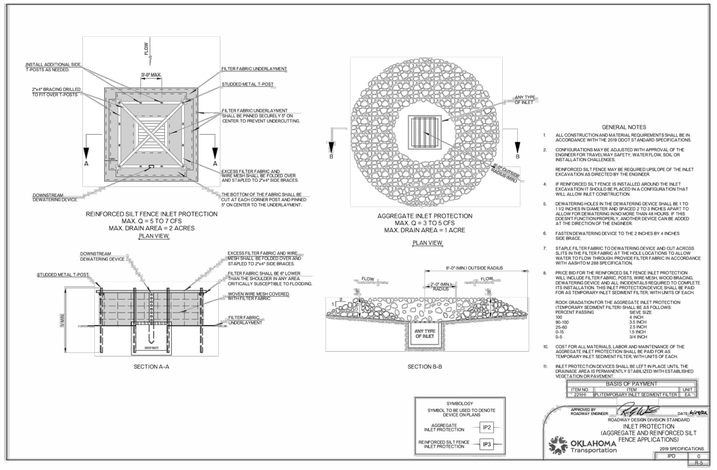


GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAFFIC, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
3. REINFORCED SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF REINFORCED SILT FENCE IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET DEWATERING.
5. DEWATERING HOLES IN THE DEWATERING DEVICE SHALL BE 1 TO 2 INCHES IN DIAMETER AND SPACED 6 TO 12 INCHES APART TO ALLOW FOR DEWATERING ANYWHERE THAN 48 HOURS IF THIS DOES NOT FUNCTION PROPERLY, ANOTHER DEVICE CAN BE ADDED AT THE DIRECTION OF THE ENGINEER.
6. FASTEN DEWATERING DEVICE TO THE 2 INCHES BY 4 INCHES SIDE BRACE.
7. STAPLE FILTER FABRIC TO DEWATERING DEVICE AND CUT ACROSS SLITS IN THE FILTER FABRIC AT THE HOLE LOCATIONS TO ALLOW WATER TO FLOW THROUGH PROVIDE FILTER FABRIC IN ACCORDANCE WITH AASHTO M 288 SPECIFICATION.
8. PRICE BID FOR THE REINFORCED SILT FENCE INLET PROTECTION (DEWATERING DEVICE) SHALL INCLUDE ALL MATERIALS, INSTALLATION, DEWATERING DEVICE AND ALL INCIDENTIALS REQUIRED TO COMPLETE ITS INSTALLATION. THIS INLET PROTECTION DEVICE SHALL BE PAID FOR AS TEMPORARY INLET SEDIMENT FILTER, WITH UNITS OF EACH.
9. ROCK GRADATION FOR THE AGGREGATE INLET PROTECTION (DEWATERING DEVICE) SHALL BE AS FOLLOWS:

PERCENT PASSING	SIZE
100	4 INCH
90-100	3 INCH
20-60	2.5 INCH
0-10	1.5 INCH
0-3	3/4 INCH

10. COST FOR ALL MATERIALS, LABOR AND MAINTENANCE OF THE AGGREGATE INLET PROTECTION SHALL BE PAID FOR AS TEMPORARY INLET SEDIMENT FILTER, WITH UNITS OF EACH.

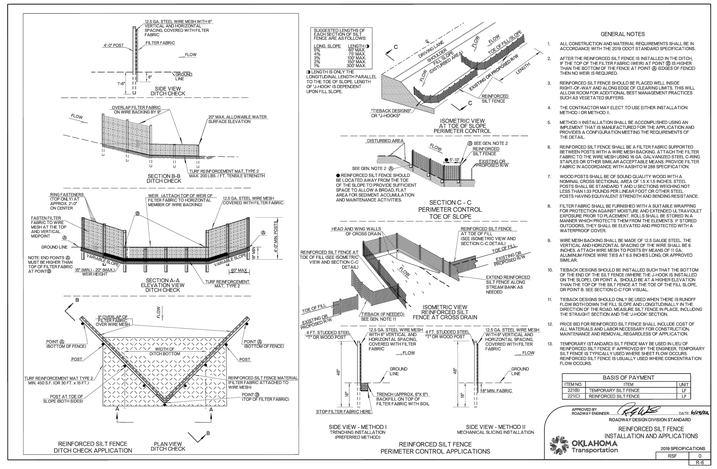
INLET PROTECTION DEVICES SHALL BE LEFT IN PLACE UNTIL THE DRAINAGE AREA IS PERMANENTLY STABILIZED WITH ESTABLISHED WEAR SECTION OR PAVEMENT.

BASIS OF PAYMENT

ITEM NO.	DESCRIPTION	UNIT
2103	TEMPORARY INLET SEDIMENT FILTER	EA

SYMBOLOGY
SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS
AGGREGATE INLET PROTECTION — IP2
REINFORCED SILT FENCE INLET PROTECTION — IP3

APPROVED BY ROADWAY ENGINEER — DATE 10/29/24
ROADWAY DESIGN DIVISION STANDARD
INLET PROTECTION
(AGGREGATE AND REINFORCED SILT FENCE APPLICATIONS)
OKLAHOMA Transportation
2019 SPECIFICATIONS
IPD | 0 | 8-5



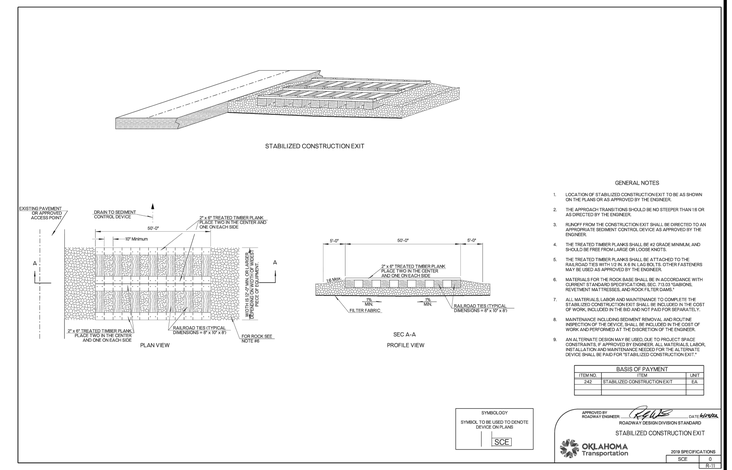
GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. AFTER THE REINFORCED SILT FENCE IS INSTALLED IN THE DITCH, IF THE TOP OF THE FILTER FABRIC (WEBS) AT POINT @ IS HIGHER THAN THE TOP OF THE FILTER FABRIC AT POINT @ (EDGE OF FENCE) THEN NO WOR IS REQUIRED.
3. REINFORCED SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
4. THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
5. METHOD I INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
6. REINFORCED SILT FENCE SHALL BE A FILTER FABRIC SUPPORTED BY A WIRE MESH BACKING. THE WIRE MESH SHALL BE ATTACHED TO THE FILTER FABRIC TO THE WIRE MESH USING 16 GA. GALVANIZED STEEL CARGO STAPLES OR OTHER SIMILAR ACCEPTABLE MEANS. PROVIDE FILTER FABRIC IN ACCORDANCE WITH AASHTO M 288 SPECIFICATION.
7. WOOD POSTS SHALL BE OF SOUND QUALITY WOOD WITH A MINIMUM CROSS SECTION OF 2 INCHES BY 2 INCHES. WOOD POSTS SHALL BE STANDARD 7 AND LARGER SIZE SUFFICIENT NOT LESS THAN 1.33 POUNDS PER LINEAR FOOT OR OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE.
8. FILTER FABRIC SHALL BE FURNISHED WITH A SUITABLE WRAPPING TO PROTECT THE FABRIC FROM ABRASION AND ULTRAVIOLET EXPOSURE PRIOR TO ACTUAL INSTALLATION. WELD WIRE MESH IN A MANNER WHICH PROTECTS THEM FROM THE ELEMENTS. IF STORED OUTDOORS, THEY SHALL BE ELEVATED AND PROTECTED WITH A WATERPROOF COVER.
9. WIRE MESH BACKING SHALL BE MADE OF 12.5 GAUGE STEEL, THE VERTICAL AND HORIZONTAL SPACING OF THE WIRE SHALL BE 6 INCHES. THE WIRE MESH SHALL BE FASTENED TO THE ALUMINUM FENCE WIRE TIES AT 6.5 INCHES LONG OR APPROVED SIMILAR.
10. TIEBACK DESIGNS SHOULD BE INSTALLED SUCH THAT THE BOTTOM OF THE END OF THE SILT FENCE (WHERE THE J-HOOK IS INSTALLED) IS AT THE SAME ELEVATION OR HIGHER THE ELEVATION HIGHER THAN THE TOP OF THE SILT FENCE AT THE TOE OF THE FILL SLOPE, ON POINT B. SEE SECTION C-C FOR VISUAL.
11. TIEBACK DESIGNS SHOULD BE USED WHEN THERE IS RUNOFF FLOW BOTH DOWN THE FILL SLOPE AND LONGITUDINALLY IN THE DIRECTION OF THE ROAD. MEASURE SILT FENCE IN PLACE, INCLUDING THE STRAIGHT SECTION AND THE J-HOOK SECTION.
12. PRICE BID FOR REINFORCED SILT FENCE SHALL INCLUDE COST OF ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE AND REMOVAL, REGARDLESS OF LENGTH.
13. TEMPORARY STANDARD SILT FENCE MAY BE USED IN LIEU OF REINFORCED SILT FENCE WHERE SHEET FLOW OCCURS. TEMPORARY SILT FENCE SHALL NOT BE USED WHERE SHEET FLOW OCCURS. REINFORCED SILT FENCE IS USUALLY USED WHERE CONCENTRATION FLOW OCCURS.

BASIS OF PAYMENT

ITEM NO.	DESCRIPTION	UNIT
2216	TEMPORARY SILT FENCE	LF
2216	REINFORCED SILT FENCE	LF

APPROVED BY ROADWAY ENGINEER — DATE 10/29/24
ROADWAY DESIGN DIVISION STANDARD
REINFORCED SILT FENCE
INSTALLATION AND APPLICATIONS
OKLAHOMA Transportation
2019 SPECIFICATIONS
RSF | 0 | 8-6



GENERAL NOTES

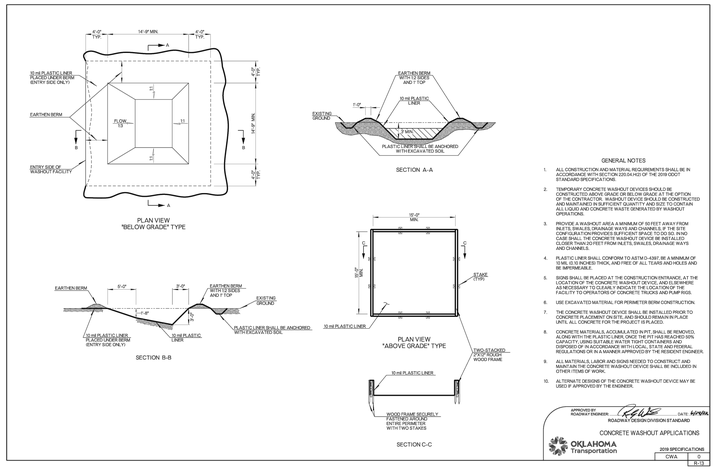
1. LOCATION OF STABILIZED CONSTRUCTION EXIT TO BE AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
2. THE APPROACH TRANSITIONS SHOULD BE AS STEEPER THAN 18 OR AS DIRECTED BY THE ENGINEER.
3. RUNOFF FROM THE CONSTRUCTION EXIT SHALL BE DIRECTED TO AN APPROPRIATE SEDIMENT CONTROL DEVICE AS APPROVED BY THE ENGINEER.
4. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MINIMUM, AND SHOULD BE FREE FROM LARGE OR LOOSE KNOTS.
5. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 10 IN. X 6 IN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
6. MATERIALS FOR THE ROCK BASE SHALL BE IN ACCORDANCE WITH CURRENT STANDARD SPECIFICATIONS, SEC. 7.5.03 "MADDING, REVETMENT MATTRESSES, AND ROCK FILTER DAMS."
7. ALL MATERIALS, LABOR AND MAINTENANCE TO COMPLETE THE STABILIZED CONSTRUCTION EXIT SHALL BE INCLUDED IN THE COST OF WORK, INCLUDED IN THE BID AND NOT PAID FOR SEPARATELY.
8. MAINTENANCE INCLUDING SEDIMENT REMOVAL AND ROUTINE REPAIR SHALL BE MADE TO THE ROCK BASE AS DIRECTED BY THE WORK AND PERFORMED AT THE DISCRETION OF THE ENGINEER.
9. AN ALTERNATE DESIGN MAY BE USED DUE TO PROJECT SPACE CONSTRAINTS, IF APPROVED BY ENGINEER. ALL MATERIALS, LABOR, INSTALLATION AND MAINTENANCE NEEDED FOR THE ALTERNATE DEVICE SHALL BE PAID FOR TO THE STABILIZED CONSTRUCTION EXIT.

BASIS OF PAYMENT

ITEM NO.	DESCRIPTION	UNIT
2102	STABILIZED CONSTRUCTION EXIT	EA

SYMBOLOGY
SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS
SCE

APPROVED BY ROADWAY ENGINEER — DATE 10/29/24
ROADWAY DESIGN DIVISION STANDARD
STABILIZED CONSTRUCTION EXIT
OKLAHOMA Transportation
2019 SPECIFICATIONS
SCE | 0 | 8-13



GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 224.04-02 OF THE 2019 ODOT STANDARD SPECIFICATIONS.
2. TEMPORARY CONCRETE WASHOUT DEVICES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. THE DEVICE SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
3. PROVIDE A WASHOUT AREA A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS AND CHANNELS IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL THE CONCRETE WASHOUT DEVICE BE INSTALLED WITHIN LESS THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS AND CHANNELS.
4. PLASTIC LINER SHALL CONFORM TO ASTM D-4397, BE A MINIMUM OF 10 MIL (0.010 INCHES) THICK, AND FREE OF ALL TEARS AND HOLES AND BE IMPERMEABLE.
5. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE DEVICE, AND ALONG THE ROUTE TO THE DEVICE AS DIRECTED OR AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE FACILITY TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
6. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
7. THE CONCRETE WASHOUT DEVICE SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE, AND SHOULD REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
8. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED, ALONG WITH THE PLASTIC LINER, ONCE THE PIT HAS REACHED 50% OF ITS CAPACITY. DISPOSE OF THE MATERIALS IN THE PIT IN A DUMPSITE OR IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS OR IN A MANNER APPROVED BY THE RESIDENT ENGINEER.
9. ALL MATERIALS, LABOR AND SIGNS NEEDED TO CONSTRUCT AND MAINTAIN THE CONCRETE WASHOUT DEVICE SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
10. ALTERNATE DESIGNS OF THE CONCRETE WASHOUT DEVICE MAY BE USED IF APPROVED BY THE ENGINEER.

APPROVED BY ROADWAY ENGINEER — DATE 10/29/24
ROADWAY DESIGN DIVISION STANDARD
CONCRETE WASHOUT APPLICATIONS
OKLAHOMA Transportation
2019 SPECIFICATIONS
CWA | 0 | 8-13

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JUSTIN DUCK

EXPRESS OIL - WAGONER, OK

CONSTRUCTION DRAWINGS
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WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-EC1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	05-01-2026

SHEET

EROSION CONTROL DETAILS

C6.01

ISSUE FOR CONSTUCTION

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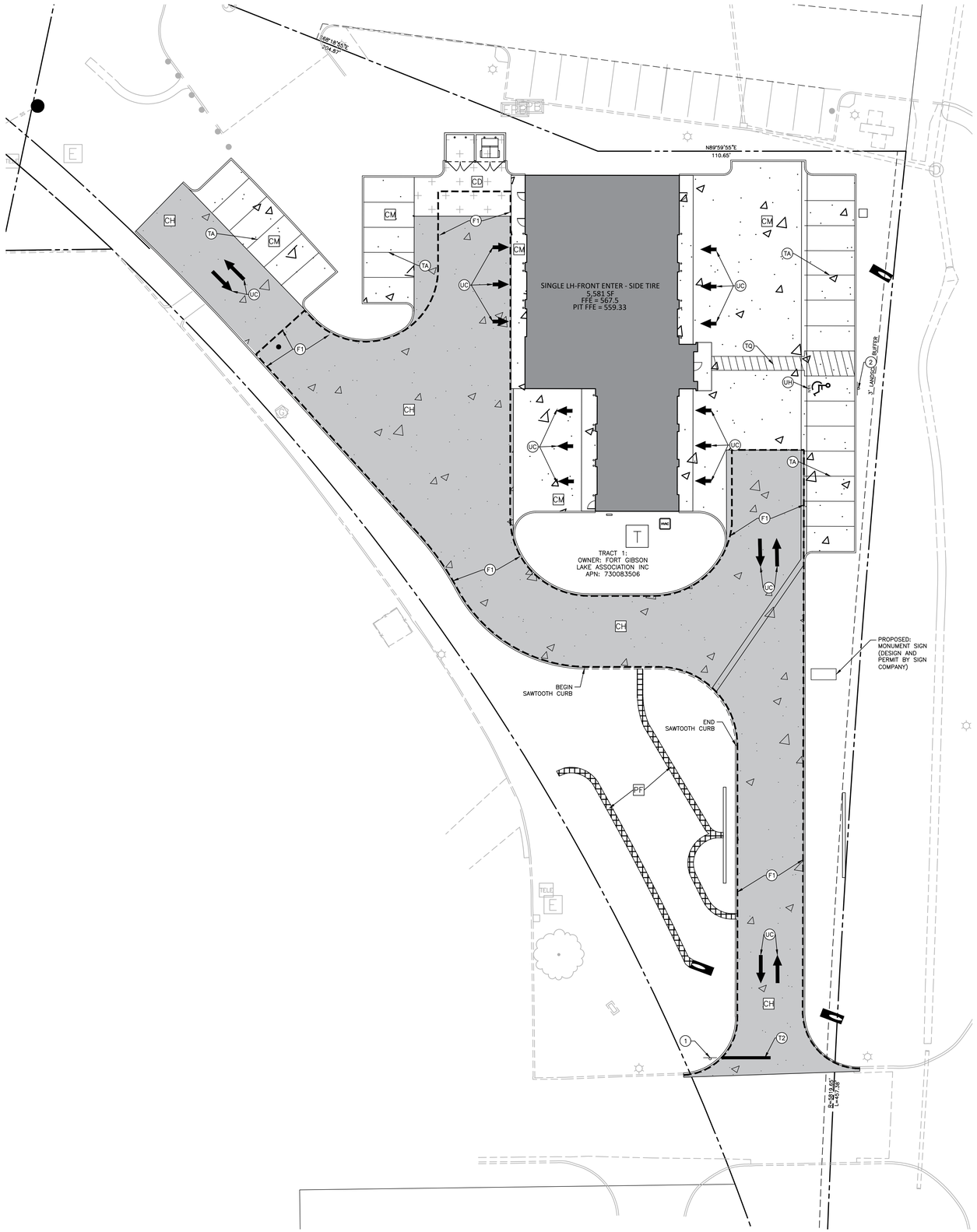

BENCHMARKS:

TBM 1:
MAG NAIL N: 359314.774 E:2739270.365 Z: 567.841

TBM 2:
MAG NAIL N: 358644.911 E:2739283.301 Z: 561.909

TBM 3:
MAG NAIL N: 359055.569 E: 2738701.146 Z:563.949

TBM 4:
MAG NAIL N: 359059.999 E: 2738298.719 Z: 561.719

PAVEMENT MARKING LEGEND

LANE LINES/MARKINGS

- F1 4" RED
- T2 24" WHITE STOPBAR
- TA 4" WHITE
- TQ 8" WHITE CROSSWALK LINE

ARROWS/CHARACTERS

- UH HANDICAP PARKING
- UC STRAIGHT ARROW

SIGN LEGEND:

1 — STOP — MUTCD R1-1 36"x36"

2 — RESERVED PARKING — VAN ACCESSIBLE — R7-8 18"x12" & R7-8A 18"x9"

PAVEMENT LEGEND:

- PF PILOT FLUME CONCRETE PAVEMENT
- CM MEDIUM DUTY CONCRETE PAVEMENT
- CD HEAVY DUTY CONCRETE DUMPSTER PAVEMENT
- CH HEAVY DUTY CONCRETE FIRELANE PAVEMENT
- STANDARD CURB
- VALLEY GUTTER
- FIRELANE

CONCRETE PAVEMENT SECTIONS

	PF PILOT FLUME*	CM MEDIUM DUTY	CH HEAVY DUTY	CD HEAVY DUTY
PORTLAND CEMENT CONCRETE (F'c = 4000 PSI) *3,000 PSI CONCRETE PAVEMENT	6.0"	5.0"	6.0"	7.0"
GRADED TYPE "A" AGGREGATE BASE COURSE *WASHED ROCK	6.0"	6.0"	6.0"	6.0"

GEOTECHNICAL ENGINEER
TERRACON CONSULTANTS, INC.
9522 EAST 47TH PLACE, UNIT D
TULSA, OKLAHOMA 74145
918-250-0461
TERRACON PROJECT NO. 04255118

GENERAL PAVEMENT AND MARKING NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF WAGONER AND ODOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
3. CONTRACTOR SHALL NOTIFY "OKIE811" (811) OR 1-800-522-6543 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 "ODOT". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATIONS (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
5. PRIOR TO BEGINNING CONSTRUCTION BEYOND EROSION CONTROL MEASURES, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE LOCAL MUNICIPALITY AND ODOT, AND A REPRESENTATIVE OF THE ENGINEER AND OWNER IF REQUIRED. THE PURPOSE OF THIS MEETING IS TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THE FACILITIES DURING CONSTRUCTION.
6. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, LOCAL MUNICIPALITY AND ODOT.
7. 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. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
8. TYPICAL PAVEMENT SECTION DETAILS SHOWN ARE INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENTS. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
9. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
10. IF UNFORESEEN CONDITIONS DEVELOP DURING CONSTRUCTION, REFER TO THE LATEST VERSION OF THE LOCAL MUNICIPALITY AND ODOT STANDARDS AND CONTACT PUBLIC WORKS STAFF FOR FURTHER GUIDANCE.
11. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
12. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
13. PREPARING, GRADING, SHAPING, AND COMPACTION OF SUBGRADE SOILS SHOULD BE PERFORMED IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS. PREPARING, GRADING, SHAPING, AND COMPACTION OF AGGREGATE BASE COURSE (CABC) STONE SHOULD BE PERFORMED IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS. PLACEMENT AND COMPACTION OF THE BITUMINOUS CONCRETE SHOULD BE PERFORMED IN ACCORDANCE ODOT STANDARD SPECIFICATIONS. PROPER SUBGRADE COMPACTION, ADHERENCE TO THE ODOT SPECIFICATIONS, AND COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS ARE CRITICAL TO THE PERFORMANCE OF THE CONSTRUCTED PAVEMENT.
14. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.
17. THE CONTRACTOR SHALL ENSURE THAT THE POWER POLE IS NOT DAMAGED DURING SIDEWALK INSTALLATION.
18. SIGNAGE TO BE PERMITTED SEPARATELY BY SIGN COMPANY.

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

ISSUE FOR CONSTUCTION

McADAMS
The John R. McAdams Company, Inc.
4400 State Highway 121, Suite 800
Lewisville, Texas 75056

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fax 972. 436. 9715
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205-397-1142
JUSTIN DUCK

EXPRESS OIL - WAGONER, OK
CONSTRUCTION DRAWINGS
300 S DEWEY AVENUE
WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-PV1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	1" = 20'
DATE	05-01-2026

SHEET

PAVEMENT, STRIPING & SIGNAGE PLAN

C7.00

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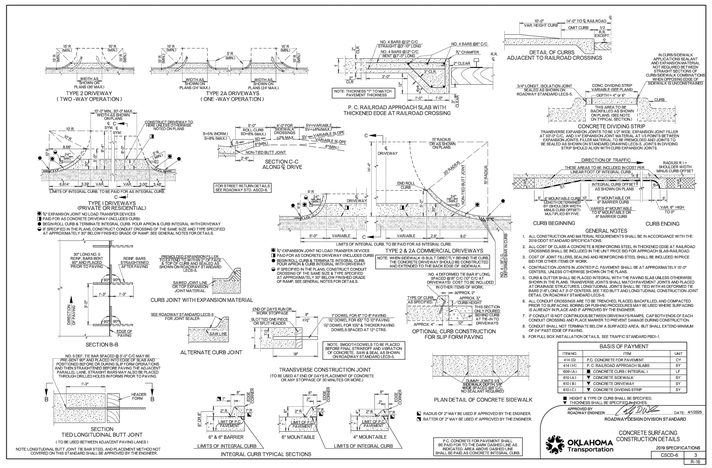

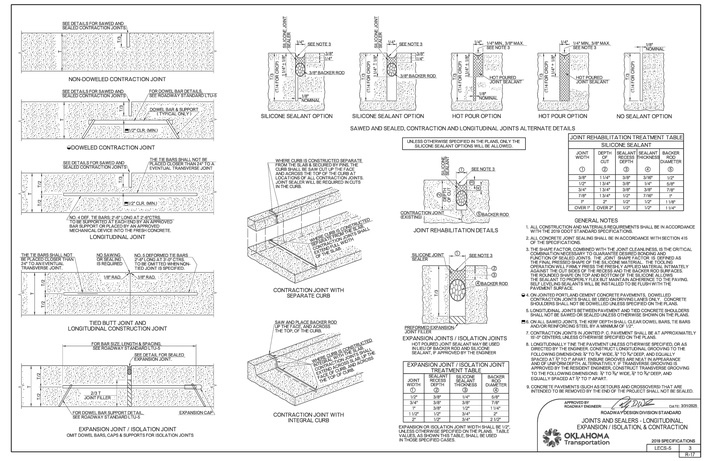

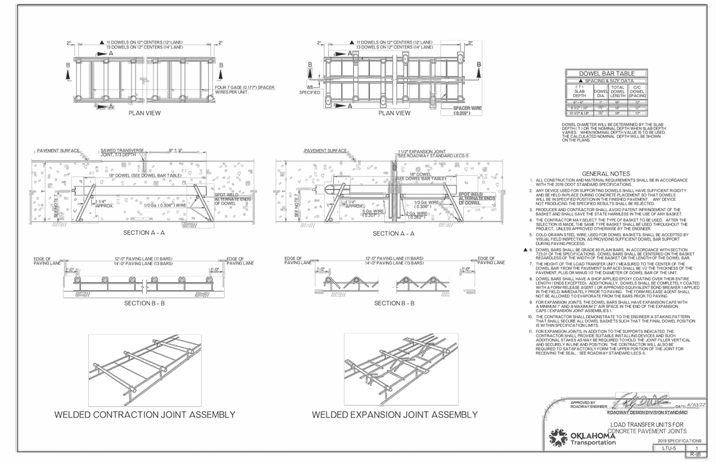

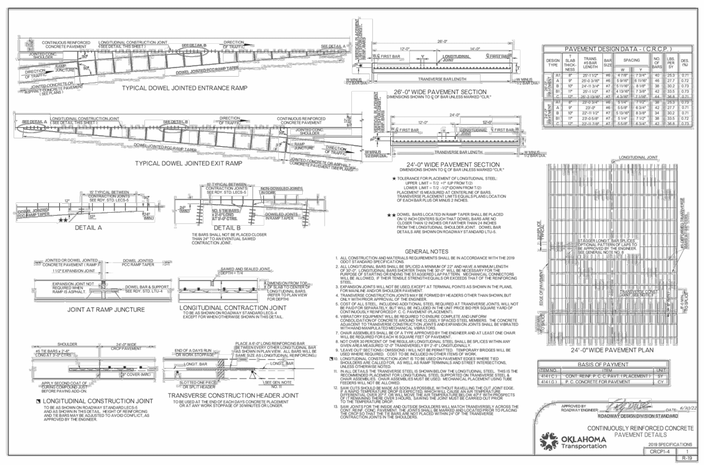

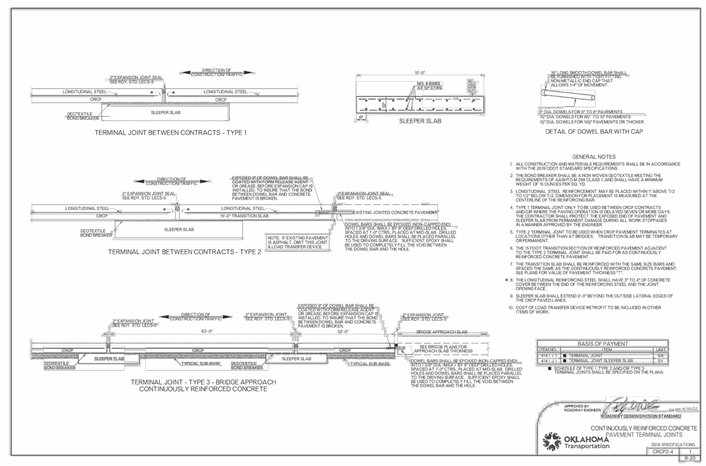

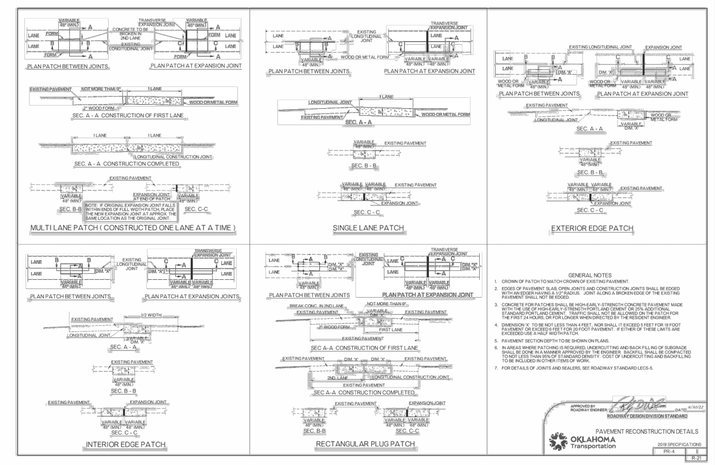

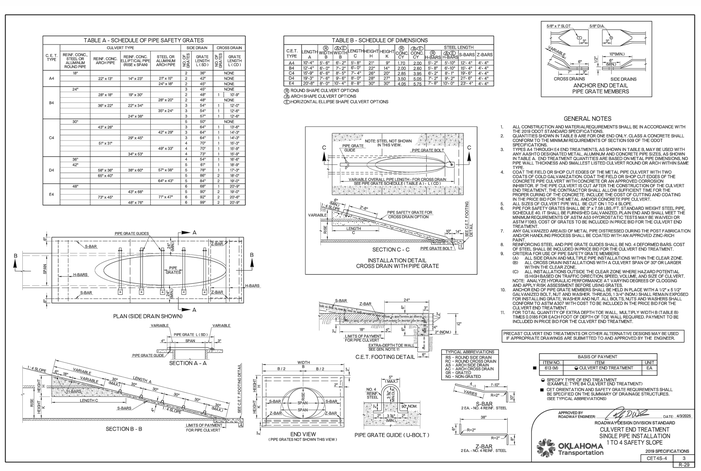

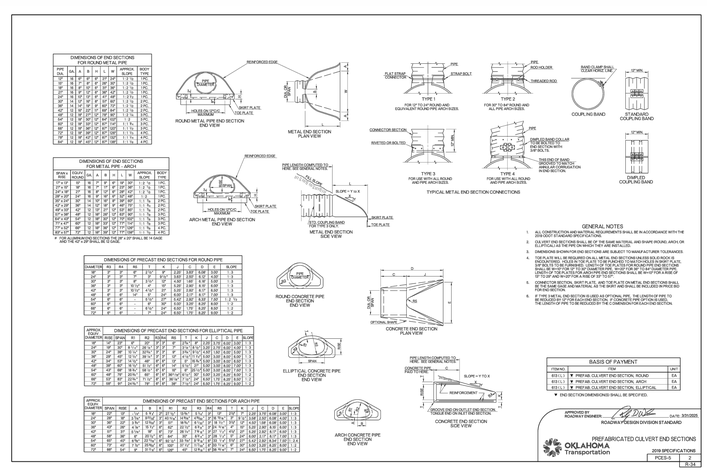

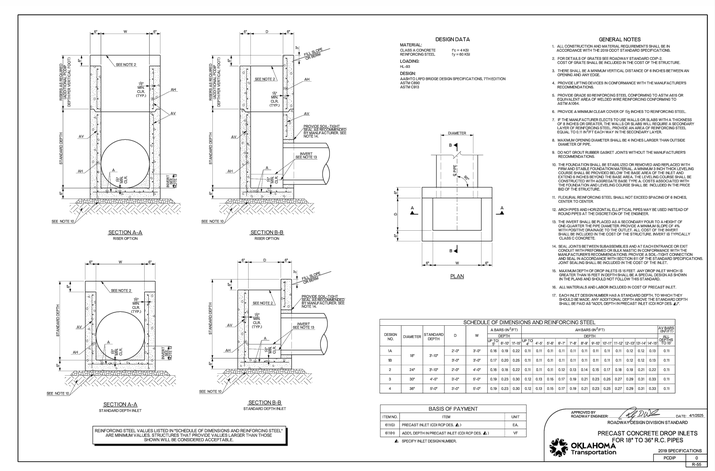

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LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	05-01-2026
SHEET	

STANDARD CONSTRUCTION DETAILS

C8.00

ISSUE FOR CONSTUCTION

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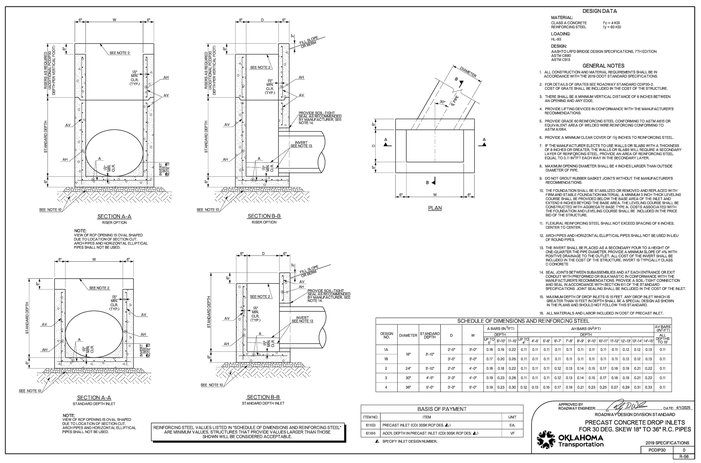


DESIGN DATA

MATERIAL:
CLASS A CONCRETE $f'c = 4$ KSI
REINFORCING STEEL $fy = 60$ KSI

LOADING
HS-20

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION
ASTM C850
ASTM D3

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FOR SECTIONS OF GRATES NOT SHOWN IN STANDARD DETAILS, THE MANUFACTURER SHALL DESIGN THE GRATE TO MATCH THE FIXTURE.
3. THERE SHALL BE A MINIMUM VERTICAL DISTANCE OF 6 INCHES BETWEEN (IN OPENING AND ANY SIDE).
4. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE GRADE 60 REINFORCING STEEL, CONFORMING TO ASTM A615 OR ASTM A706, AS NEEDED FOR WIRE REINFORCING CONFORMING TO ASTM A185.
6. PROVIDE A MINIMUM CLEAR COVER OF 1½ INCHES TO REINFORCING STEEL.
7. IF THE MANUFACTURER'S LISTS TO BE WALLS OR BLUBS WITH A THICKNESS LESS THAN 6 INCHES, THE WALLS OR BLUBS SHALL BE REINFORCED WITH A LEVEL OF REINFORCEMENT EQUAL TO 6 INCHES THICKNESS, UNLESS OTHERWISE SHOWN ON THE PLANS.
8. MAXIMUM OPENING DIAMETER SHALL BE 4 INCHES LARGER THAN OUTSIDE DIAMETER OF PIPE.
9. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT THE MANUFACTURER'S RECOMMENDATIONS.
10. THE FOUNDATION SHALL BE STABILIZED OR REMOVED AND REPLACED WITH COMPACTED FILL MATERIAL, IF NECESSARY, TO PROVIDE A FIRM FOUNDATION. COURSE SHALL BE PROVIDED BELOW THE BASE AREA OF THE BUILT AND EXTENDED 4 INCHES BEYOND THE BASE AREA. THE LEVEL NO COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE. IF THE ENGINEER DETERMINES THE FOUNDATION AND LEVELING COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE.
11. PLACE ALL REINFORCING STEEL SHALL NOT EXCEED SPACING OF 8 INCHES. (VERIFY TO CENTER).
12. ARCH PIPES AND HORIZONTAL ELLIPTICAL PIPES SHALL NOT BE USED IN LIEU OF SQUARE PIPES.
13. THE INVERT SHALL BE PLACED AS A SECONDARY FOUR TO A HEIGHT OF ONE-FOURTH OF THE PIPE RISE. THE INVERT SHALL BE PLACED AS THE PIPE FOR PROVIDING TO THE PIPE ALT OD OF THE INVERT SHALL BE INCLUDED IN THE COST OF THE STRUCTURE. INVERT IS TYPICALLY CLASS 3 CONCRETE.
14. SEAL JOINTS BETWEEN SUBASSEMBLIES AND AT EACH STRUCTURE OR EXIT PIPE WITH A FLEXIBLE, WATERTIGHT, COLD APPLIED SEALANT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. PROVIDE SEALANT TO CONSTRUCTION JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. JOINT SEALING SHALL BE INCLUDED IN THE COST OF THE INLET.
15. MAXIMUM DEPTH OF DROP INLETS IS 10 FEET. ANY DROP INLET WHICH IS GREATER THAN 10 FEET IN DEPTH SHALL BE A SPECIAL DESIGN AS SHOWN ON THE PLANS AND SHALL NOT FOLLOW THIS STANDARD.
16. ALL MATERIALS WHEN LABOR INCLUDED IN COST OF PRECAST INLET.

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL

DESIGN NO.	DIAMETER	D	W	A BARS IN DIRECTION OF DEPTH						B BARS IN DIRECTION OF DEPTH						STANDARD DEPTH (DP)	
		STANDARD DEPTH (DP)		4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	12'-0"
1A	18"	3'-0"	2'-0"	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1B		4'-0"	2'-0"	0.7	0.8	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	24"	3'-0"	2'-0"	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
3	30"	4'-0"	2'-0"	0.7	0.8	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
4	36"	5'-0"	2'-0"	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
6100	PRECAST INLET CCD 200M PCP DIS ▲1	EA.
6100	ADDL DEPTH IN PRECAST INLET CCD 200M PCP DIS ▲2	VF

▲ SPECIFY INLET DESIGN NUMBER.

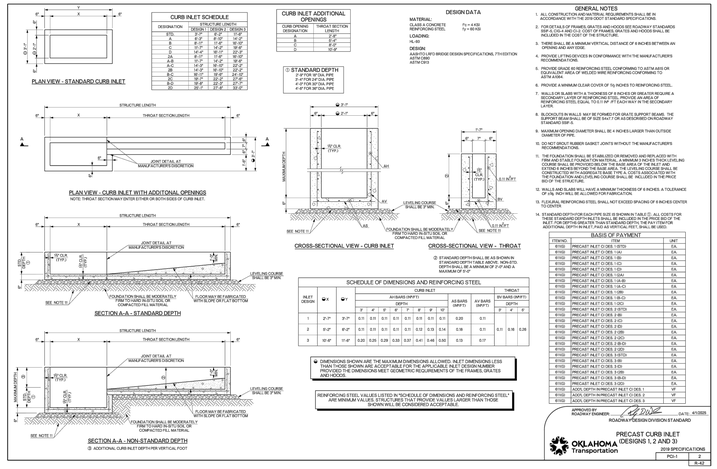
REINFORCING STEEL VALUES LISTED IN "SCHEDULE OF DIMENSIONS AND REINFORCING STEEL" ARE MINIMUM VALUES. STRUCTURES THAT PROVIDE VALUES LARGER THAN THOSE SHOWN WILL BE CONSIDERED ACCEPTABLE.

APPROVED BY ROADWAY ENGINEER — DATE: 4/1/2020
ROADWAY DESIGN DIVISION STANDARD

PRECAST CONCRETE DROP INLETS FOR 30 DEG. SKEW 18" TO 36" R.C. PIPES

OKLAHOMA Transportation

2019 SPECIFICATIONS
PCDPIO | 1
R-08



CURB INLET SCHEDULE

DESIGNATION	STRUCTURE LENGTH		THROAT SECTION LENGTH
	STD	ADDL	
A	8'-0"	2'-0"	10'-0"
B	10'-0"	2'-0"	12'-0"
C	12'-0"	2'-0"	14'-0"
D	14'-0"	2'-0"	16'-0"
E	16'-0"	2'-0"	18'-0"
A-D	14'-0"	16'-0"	22'-0"
B-D	16'-0"	16'-0"	24'-0"
B-E	18'-0"	16'-0"	26'-0"
C-D	16'-0"	16'-0"	26'-0"
C-E	18'-0"	16'-0"	28'-0"
D-E	18'-0"	16'-0"	30'-0"

CURB INLET ADDITIONAL OPENINGS

CURB OPENING DESIGNATION	THROAT SECTION LENGTH
A	2'-0"
B	4'-0"
C	6'-0"
D	8'-0"

☐ STANDARD DEPTH
2'-0" FOR 24" DIA. PIPE
3'-0" FOR 30" DIA. PIPE
4'-0" FOR 36" DIA. PIPE
4'-0" FOR 36" DIA. PIPE

DESIGN DATA

MATERIAL:
CLASS A CONCRETE $f'c = 4$ KSI
REINFORCING STEEL $fy = 60$ KSI

LOADING
HS-20

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION
ASTM C850
ASTM D3

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FOR DETAILS OF FRAMES, GRATES AND HOODS SEE ROADWAY STANDARDS BSF-5, DGA-1 AND DGA-2. COST OF FRAMES, GRATES AND HOODS SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
3. THERE SHALL BE A MINIMUM VERTICAL DISTANCE OF 6 INCHES BETWEEN (IN OPENING AND ANY SIDE).
4. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE GRADE 60 REINFORCING STEEL, CONFORMING TO ASTM A615 OR ASTM A706, AS NEEDED FOR WIRE REINFORCING CONFORMING TO ASTM A185.
6. PROVIDE A MINIMUM CLEAR COVER OF 1½ INCHES TO REINFORCING STEEL.
7. IF THE MANUFACTURER'S LISTS TO BE WALLS OR BLUBS WITH A THICKNESS LESS THAN 6 INCHES, THE WALLS OR BLUBS SHALL BE REINFORCED WITH A LEVEL OF REINFORCEMENT EQUAL TO 6 INCHES THICKNESS, UNLESS OTHERWISE SHOWN ON THE PLANS.
8. MAXIMUM OPENING DIAMETER SHALL BE 4 INCHES LARGER THAN OUTSIDE DIAMETER OF PIPE.
9. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT THE MANUFACTURER'S RECOMMENDATIONS.
10. THE FOUNDATION SHALL BE STABILIZED OR REMOVED AND REPLACED WITH COMPACTED FILL MATERIAL, IF NECESSARY, TO PROVIDE A FIRM FOUNDATION. COURSE SHALL BE PROVIDED BELOW THE BASE AREA OF THE BUILT AND EXTENDED 4 INCHES BEYOND THE BASE AREA. THE LEVEL NO COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE. IF THE ENGINEER DETERMINES THE FOUNDATION AND LEVELING COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE.
11. PLACE ALL REINFORCING STEEL SHALL NOT EXCEED SPACING OF 8 INCHES. (VERIFY TO CENTER).
12. ARCH PIPES AND HORIZONTAL ELLIPTICAL PIPES SHALL NOT BE USED IN LIEU OF SQUARE PIPES.
13. THE INVERT SHALL BE PLACED AS A SECONDARY FOUR TO A HEIGHT OF ONE-FOURTH OF THE PIPE RISE. THE INVERT SHALL BE PLACED AS THE PIPE FOR PROVIDING TO THE PIPE ALT OD OF THE INVERT SHALL BE INCLUDED IN THE COST OF THE STRUCTURE. INVERT IS TYPICALLY CLASS 3 CONCRETE.
14. SEAL JOINTS BETWEEN SUBASSEMBLIES AND AT EACH STRUCTURE OR EXIT PIPE WITH A FLEXIBLE, WATERTIGHT, COLD APPLIED SEALANT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. PROVIDE SEALANT TO CONSTRUCTION JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. JOINT SEALING SHALL BE INCLUDED IN THE COST OF THE INLET.
15. MAXIMUM DEPTH OF DROP INLETS IS 10 FEET. ANY DROP INLET WHICH IS GREATER THAN 10 FEET IN DEPTH SHALL BE A SPECIAL DESIGN AS SHOWN ON THE PLANS AND SHALL NOT FOLLOW THIS STANDARD.
16. ALL MATERIALS WHEN LABOR INCLUDED IN COST OF PRECAST INLET.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
6100	PRECAST REINFORCED CONCRETE INLET	EA.
6100	PRECAST INLET CCD 200M PCP DIS	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲1	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲2	VF
6100	PRECAST INLET CCD 200M PCP DIS ▲3	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲4	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲5	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲6	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲7	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲8	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲9	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲10	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲11	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲12	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲13	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲14	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲15	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲16	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲17	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲18	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲19	EA.
6100	PRECAST INLET CCD 200M PCP DIS ▲20	EA.
6100	ADDL DEPTH IN PRECAST INLET CCD 200M PCP DIS ▲1	VF
6100	ADDL DEPTH IN PRECAST INLET CCD 200M PCP DIS ▲2	VF
6100	ADDL DEPTH IN PRECAST INLET CCD 200M PCP DIS ▲3	VF
6100	ADDL DEPTH IN PRECAST INLET CCD 200M PCP DIS ▲4	VF

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL

INLET DESIGN	W ▲1	W ▲2	CURB INLET A+BARS (INFT)						B BARS (INFT)	F BARS (INFT)	THROAT B+BARS (INFT)		
			DEPTH								DEPTH		
			F	F	F	F	F	F			F	F	F
1	2'-7"	2'-7"	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20		0.1	
2	5'-2"	6'-2"	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.9	0.1	0.1	0.6
3	10'-2"	1'-6"	0.20	0.25	0.35	0.55	0.57	0.41	0.46	0.50	0.5	0.7	

◆ DIMENSIONS SHOWN ARE THE MAXIMUM DIMENSIONS. ALL CURVED INLET DIMENSIONS LESS THAN THOSE SHOWN ARE ACCEPTABLE FOR THE APPLICABLE INLET DESIGN NUMBER PROVIDING THE DIMENSIONS MEET GEOMETRIC REQUIREMENTS OF THE FRAMES, GRATES AND HOODS.

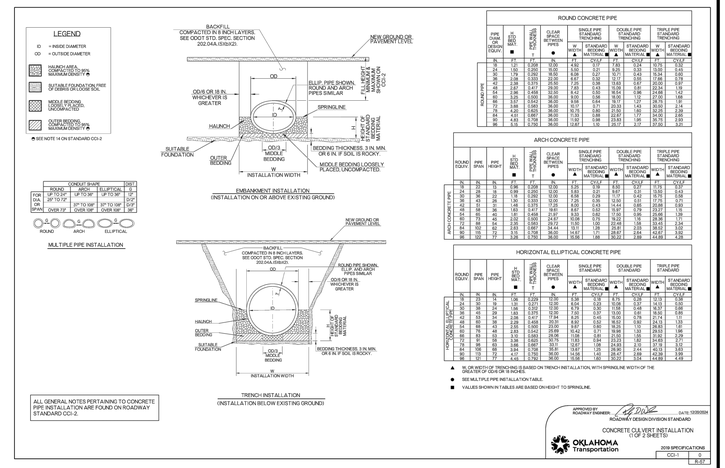
REINFORCING STEEL VALUES LISTED IN "SCHEDULE OF DIMENSIONS AND REINFORCING STEEL" ARE MINIMUM VALUES. STRUCTURES THAT PROVIDE VALUES LARGER THAN THOSE SHOWN WILL BE CONSIDERED ACCEPTABLE.

APPROVED BY ROADWAY ENGINEER — DATE: 4/1/2020
ROADWAY DESIGN DIVISION STANDARD

PRECAST CURB INLET DESIGNS 1, 2 AND 3

OKLAHOMA Transportation

2019 SPECIFICATIONS
PCI-1 | 2
R-42



ROUND CONCRETE PIPE

	PIPE CLAR DIAM (OUTSIDE EQUIV)	A	B	C	D	E	F	G	H	I	J
ROUND PIPE	18	1.00	0.50	4.50	0.17	7.83	0.24	12.75	0.32		
	24	1.33	0.50	5.33	0.17	8.67	0.24	13.83	0.32		
	30	1.67	0.50	6.17	0.17	9.50	0.24	14.92	0.32		
	36	2.00	0.50	7.00	0.17	10.33	0.24	16.00	0.32		
	42	2.33	0.50	7.83	0.17	11.17	0.24	17.08	0.32		
	48	2.67	0.50	8.67	0.17	12.00	0.24	18.17	0.32		
	54	3.00	0.50	9.50	0.17	12.83	0.24	19.25	0.32		
	60	3.33	0.50	10.33	0.17	13.67	0.24	20.33	0.32		
	66	3.67	0.50	11.17	0.17	14.50	0.24	21.42	0.32		
	72	4.00	0.50	12.00	0.17	15.33	0.24	22.50	0.32		
	78	4.33	0.50	12.83	0.17	16.17	0.24	23.58	0.32		
	84	4.67	0.50	13.67	0.17	17.00	0.24	24.67	0.32		
	90	5.00	0.50	14.50	0.17	17.83	0.24	25.75	0.32		

ARCH CONCRETE PIPE

	ROUND EQUIV	RISE	RISE WEIGHT	SPAN	CLEAR SPACE BETWEEN PIPES	SINGLE PIPE STANDARD TRENCHING		DOUBLE PIPE STANDARD TRENCHING		TRIPLE PIPE STANDARD TRENCHING	
						WIDTH	MATERIAL ■	WIDTH	MATERIAL ■	WIDTH	MATERIAL ■
	N	N	N	T	T	A		B		C	
ARCH CONCRETE PIPE	18	11	0.08	22	0.5	3.17	0.12	5.67	0.21	8.17	0.31
	24	15	0.14	29	0.5	3.83	0.12	6.83	0.21	9.83	0.31
	30	19	0.22	36	0.5	4.50	0.12	8.00	0.21	11.50	0.31
	36	22	0.31	43	0.5	5.17	0.12	9.17	0.21	13.17	0.31
	42	26	0.42	51	0.5	5.83	0.12	10.33	0.21	14.83	0.31
	48	29	0.55	58	0.5	6.50	0.12	11.50	0.21	16.50	0.31
	54	33	0.70	65	0.5	7.17	0.12	12.67	0.21	18.17	0.31
	60	36	0.86	72	0.5	7.83	0.12	13.83	0.21	19.83	0.31
	66	40	1.04	79	0.5	8.50	0.12	15.00	0.21	21.50	0.31
	72	43	1.24	86	0.5	9.17	0.12	16.17	0.21	23.17	0.31
	78	47	1.46	93	0.5	9.83	0.12	17.33	0.21	24.83	0.31
	84	50	1.69	101	0.5	10.50	0.12	18.50	0.21	26.50	0.31
	90	54	1.94	108	0.5	11.17	0.12	19.67	0.21	28.17	0.31

HORIZONTAL ELLIPTICAL CONCRETE PIPE

	ROUND EQUIV	RISE	RISE WEIGHT	SPAN	CLEAR SPACE BETWEEN PIPES	SINGLE PIPE STANDARD TRENCHING		DOUBLE PIPE STANDARD TRENCHING		TRIPLE PIPE STANDARD TRENCHING	
						WIDTH	MATERIAL ■	WIDTH	MATERIAL ■	WIDTH	MATERIAL ■
	N	N	N	T	T	A		B		C	
HORIZONTAL ELLIPTICAL CONCRETE PIPE	18	13	0.08	29	0.5	3.17	0.12	5.67	0.21	8.17	0.31
	24	19	0.14	38	0.5	3.83	0.12	6.83	0.21	9.83	0.31
	30	24	0.22	48	0.5	4.50	0.12	8.00	0.21	11.50	0.31
	36	29	0.31	57	0.5	5.17	0.12	9.17	0.21	13.17	0.31
	42	34	0.42	67	0.5	5.83	0.12	10.33	0.21	14.83	0.31
	48	38	0.55	76	0.5	6.50	0.12	11.50	0.21	16.50	0.31
	54	43	0.70	86	0.5	7.17	0.12	12.67	0.21	18.17	0.31
	60	48	0.86	95	0.5	7.83	0.12	13.83	0.21	19.83	0.31
	66	53	1.04	105	0.5	8.50	0.12	15.00	0.21	21.50	0.31
	72	57	1.24	114	0.5	9.17	0.12	16.17	0.21	23.17	0.31
	78	62	1.46	124	0.5	9.83	0.12	17.33	0.21	24.83	0.31
	84	67	1.69	133	0.5	10.50	0.12	18.50	0.21	26.50	0.31
	90	71	1.94	143	0.5	11.17	0.12	19.67	0.21	28.17	0.31

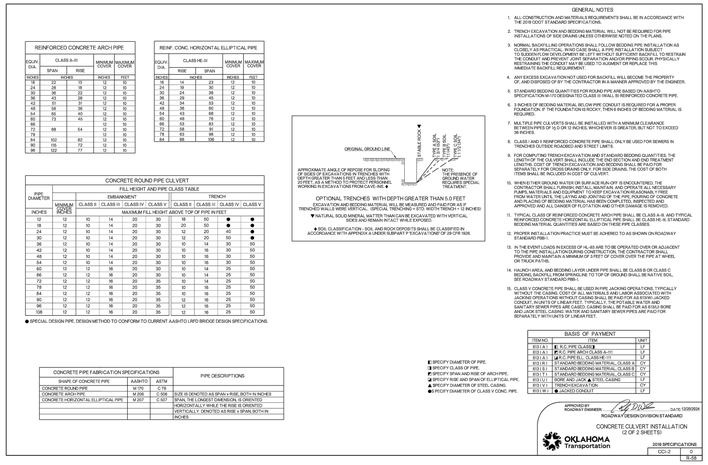
▲ IN OR WITH OUT TRENCH INSTALLATION WITH SPRINKLING WOTH OF THE OUTER BEDDING OR BOTH.
■ SEE MULTIPLE PIPE INSTALLATION TABLE.
■ VALUES SHOWN IN TABLES ARE BASED ON HEIGHT TO SPRINKLINE.

APPROVED BY ROADWAY ENGINEER — DATE: 12/28/2004
ROADWAY DESIGN DIVISION STANDARD

CONCRETE CULVERT INSTALLATION (TOP 2 SHEETS)

OKLAHOMA Transportation

2019 SPECIFICATIONS
CCI-1 | 5
R-41



REINFORCED CONCRETE ARCH PIPE

EQUIV. DIA.	CLASS A-III SPAN	CLASS A-III RISE	MINIMUM COVER	MAXIMUM COVER
			INCHES	INCHES
18	22	13	12	50
24	28	18	12	50
30	36	22	12	50
36	43	27	12	50
42	51	31	12	50
48	58	36	12	50
54	65	40	12	50
60	73	45	12	50
66	80	49	12	50
72	88	54	12	50
78	95	58	12	50
84	102	62	12	50
90	110	67	12	50
96	122	71	12	50

REINF. CONC. HORIZONTAL ELLIPTICAL PIPE

EQUIV. DIA.	CLASS HE-III SPAN	CLASS HE-III RISE	MINIMUM COVER	MAXIMUM COVER
			INCHES	INCHES
18	14	23	12	50
24	18	30	12	50
30	24	38	12	50
36	29	45	12	50
42	34	53	12	50
48	38	60	12	50
54	43	68	12	50
60	48	75	12	50
66	53	83	12	50
72	57	90	12	50
78	62	98	12	50
84	67	105	12	50
90	71	113	12	50
96	76	120	12	50

CONCRETE ROUND PIPE CULVERT

PIPE DIAMETER	FILL HEIGHT AND PIPE CLASS							
	EMBANKMENT				TRENCH			
	MINIMUM INCHES	CLASS I	CLASS II	CLASS IV	CLASS V	CLASS II	CLASS IV	CLASS V
	MAXIMUM FILL HEIGHT ABOVE TOP OF PIPE IN FEET							
12	12	10	14	20	30	16	50	●
18	12	10	14	20	30	20	50	●
24	12	10	14	20	30	12	50	●
30	12	10	14	20	30	12	20	50
36	12	10	14	20	30	10	14	50
42	12	10	14	20	30	10	16	50
48	12	10	14	20	30	10	16	50
54	12	10	14	20	30	10	16	50
60	12	12	16	20	30	10	14	25	50
66	12	12	16	20	30	10	14	25	50
72	12	12	16	20	35	10	14	25	50
78	12	12	16	20	35	10	16	25	50
84	12	12	16	20	35	10	16	25	50
90	12	12	16	20	35	10	16	25	50
96	12	12	16	20	35	10	16	25	50
108	12	12	16	20	35	12	16	25	50

● SPECIAL DESIGN PIPE, DESIGN METHOD TO CONFORM TO CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

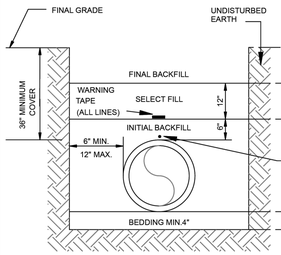
GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. TRENCH EXCAVATION AND BEDDING MATERIAL WILL NOT BE REQUIRED FOR PIPE INSTALLATIONS OF SIDE DRAINS UNLESS OTHERWISE NOTED ON THE PLANS.
3. NORMAL BACKFILLING OPERATIONS SHALL FOLLOW BEDDING PIPE INSTALLATION AS CLOSELY AS PRACTICAL. IN NO CASE SHALL A PIPE INSTALLATION SUBJECT TO DAMAGE BE LEFT UNBACKFILLED MORE THAN 500 FEET. BACKFILL TO RESTRAIN THE CONDUIT AND PREVENT JOINT SEPARATION AND/OR PIPE BUCKLE. PHYSICALLY RESTRAINING THE CONDUIT MAY BE USED TO AUGMENT OR REPLACE THIS MINIMUM BACKFILL REQUIREMENT.
4. ANY DEFECTIVE CAST IN PLACE CONDUIT PIPE OR PIPE WALL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND REPLACED AT THE DIRECTION OF THE ENGINEER.
5. STANDARD BEDDING SLIGHT TYPE OR TRENCH PIPE WILL BE BASED ON AASHTO SPECIFICATION M-170 DESIGNATION CLASS D. SHALL B REINFORCED CONCRETE PIPE.
6. 3 INCHES OF BEDDING MATERIAL BELOW PIPE CONDUIT IS REQUIRED FOR A PROPER FOUNDATION. IF THE FOUNDATION IS ROCKY, THEN 6 INCHES OF BEDDING MATERIAL IS REQUIRED.
7. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE BETWEEN PIPES OF ½ O.D.W. 12 INCHES, WHICHEVER IS GREATER, BUT NOT TO EXCEED 36 INCHES.
8. CLASS I AND II REINFORCED CONCRETE PIPE SHALL ONLY BE USED FOR SEWERS IN TRENCHES OTHER REQUIRED AND STRUTS LIMITS.
9. FOR COMPUTING TRENCH EXCAVATION AND STANDARD BEDDING QUANTITIES, THE LONGITUDE THE CLASS I SHALL INCLUDE THE END SECTION AND ONE TREA ENDS' LENGTHS. COST OF TRENCH EXCAVATION AND BEDDING SHALL BE PAID FOR ACCORDING TO THE PAY LIMITS SHOWN ON THE DRAWING. THE COST OF THE PIPE ITEMS SHALL BE INCLUDED IN COST OF CULVERT.
10. WHENEVER GROUND WATER OR SURFACE RUN-OFF IS ENCOUNTERED, THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND OPERATE ALL NECESSARY PUMPS, MATERIALS AND EQUIPMENT TO KEEP EXCAVATION REASONABLY FREE FROM WATER. THE COST OF THE PUMPING EQUIPMENT, MATERIALS, AND LABOR AND PLACING OF BEDDING MATERIAL HAS BEEN COMPLETED, INSPECTED, AND APPROVED AND ALL DANGER OF FLOTATION AND OTHER DAMAGE IS REMOVED.
11. TYPICAL CLASS OF REINFORCED CONCRETE ARCH PIPE SHALL BE CLASS A-III, AND TYPICAL REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE SHALL BE CLASS HE-III. STANDARD BEDDING MATERIAL QUANTITIES ARE BASED ON THESE PIPE CLASSES.
12. PROPER INSTALLATION PRACTICE MUST BE ADHERED TO AS SHOWN ON ROADWAY STANDARD PBB-1.
13. IN THE EVENT LOADS IN EXCESS OF HL-93 ARE TO BE OPERATED OVER OR ADJACENT TO THE PIPE INSTALLATION DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER THE PIPE AT WHEEL OR TRUCK PATHS.
14. HAUNCH AREA, AND BEDDING LAYER UNDER PIPE SHALL BE CLASS B OR CLASS C BEDDING, BACKFILL FROM SPRINKLINE TO TOP OF GROUND SHALL BE NATIVE SOIL. SEE ROADWAY STANDARDS PBB-1.
15. CLASS V CONCRETE PIPE SHALL BE USED IN PIPE JACKING OPERATIONS, TYPICALLY WITHOUT THE CASING. COST OF ALL MATERIALS AND LABOR ASSOCIATED WITH PIPE JACKING OPERATIONS SHALL BE INCLUDED IN THE COST OF THE CASED CONDUIT. IN LIEU OF LINEAR FEET. TYPICALLY THE ROTABLE WATER AND SANITARY SEWER PIPES ARE CASED. CASING SHALL BE PAID FOR AS 6 DSC 8 BORE AND JACK. ROTABLE WATER AND SANITARY SEWER PIPES ARE PAID FOR SEPARATELY WITH WATER OF LINEAR FEET.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
6101 (A)	▲ R.C. PIPE CLASS ▲	LF
6101 (A)	◆ R.C. PIPE ARCH CLASS A-III	LF
6101 (A)	◆ R.C. PIPE ELL. CLASS HE-III	LF
6101 (B)	STANDARD B

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.

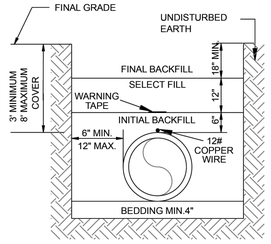
REVISION	BY	DATE

SAN. SEWER PIPE INSTALLATION
STANDARD DETAILS

DATE: 05/05 STANDARD NO. SAN-01

\STANDARD DETAILS\Sewer\SAN-01.dwg

SECTION



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. 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.

WATER 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

NOTE: ALL WATER LINES UNDER PAVEMENT SHALL BE SLEEVED.

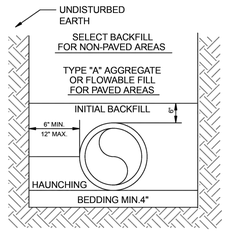
REVISION	BY	DATE

WATER PIPE INSTALLATION
STANDARD DETAILS

DATE: 05/05 STANDARD NO. WAT-01

\STANDARD DETAILS\WATER\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:

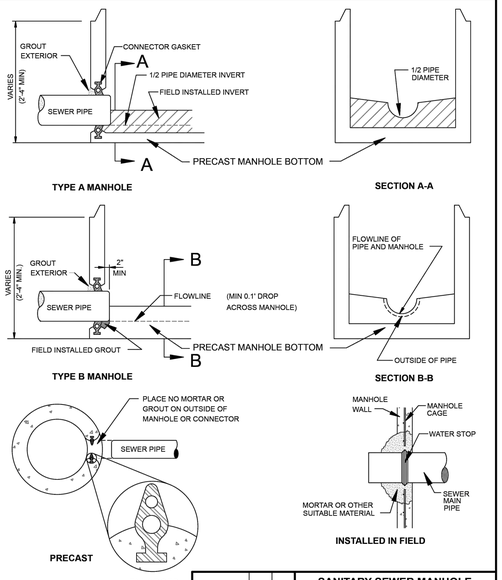
1. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 2 INCHES.
2. CRUSHED ROCK SHALL BE ODOT TYPE "A" BASE AGGREGATE
3. COMPACTION REQUIREMENTS:
   a. NON- PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 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).

REVISION	BY	DATE

STORM SEWER PIPE INSTALLATION
STANDARD DETAILS

DATE: 05/05 STANDARD NO. STRM-01

\STANDARD DETAILS\STORM\STRM-01



REVISION	BY	DATE

SANITARY SEWER MANHOLE PIPE CONNECTOR
STANDARD DETAILS

DATE: 05/05 STANDARD NO. SAN-07

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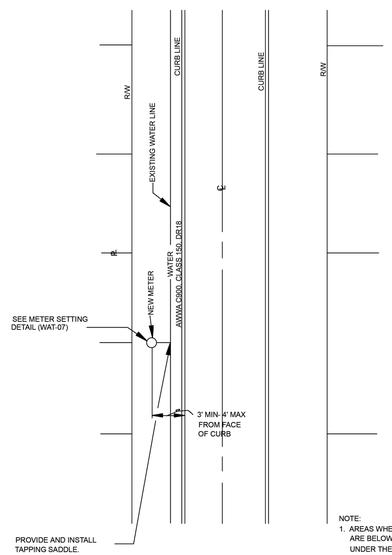


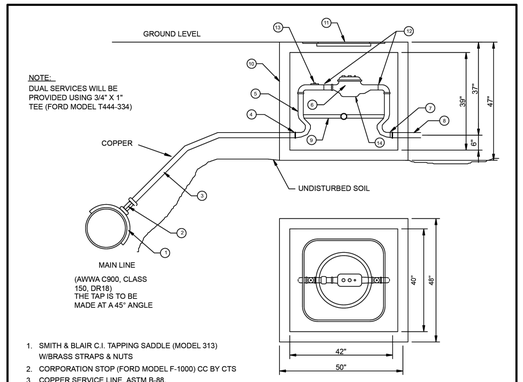
NOTE:
1. AREAS WHERE STATIC PRESSURES ARE BELOW 60 PSI, SERVICE LINE UNDER THE STREET SHALL BE 1 1/4" DIAMETER.

REVISION	BY	DATE

SHORT WATER SERVICE
STANDARD DETAILS

DATE: 05/05 STANDARD NO. WAT-03

\STANDARD DETAILS\WATER\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 VV7771SW1177(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

REVISION	BY	DATE

3/4" TO 2" METER SETTING
STANDARD DETAILS

DATE: 05/05 STANDARD NO. WAT-07

\STANDARD DETAILS\WATER\WAT-07

ISSUE FOR CONSTUCTION

Z:\Drive\Projects\EXO\EXO25005\04-Production\Engineering\Current Drawings\Sheets\EXO25005-D1.dwg, 5/1/2026 4:59:00 PM, Rodrigo Lopez

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EXPRESS OIL - WAGONER, OK
CONSTRUCTION DRAWINGS
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WAGONER, OK, 74467

LICENSED PROFESSIONAL ENGINEER
DARREN ANDREWS
25761
OKLAHOMA
05/01/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS
3		
4		
5		
6		

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-D1
CHECKED BY	BY
DRAWN BY	KZ
SCALE	N.T.S.
DATE	05-01-2026

SHEET

STANDARD CONSTRUCTION DETAILS

C8.02

GENERAL LANDSCAPE NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WAGONER AND THE STATE OF OKLAHOMA 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.

WARRANTY & MAINTENANCE:

1. WARRANTY: INSTALLER SHALL REPAIR OR REPLACE ANY PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLECT, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
   - STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
2. MAINTENANCE: INITIAL MAINTENANCE SHALL BE PROVIDED IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL SUBSTANTIAL COMPLETION. UPON SUBSTANTIAL COMPLETION, MAINTENANCE FOR ALL PLANT MATERIAL SHALL BE PROVIDED FOR ONE YEAR AT A MINIMUM SHALL INCLUDE:
   - TREE AND SHRUB MAINTENANCE: MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
   - GROUND COVER AND PLANT MAINTENANCE: MAINTAIN AND ESTABLISH PLANTINGS BY WATERING, WEEDING, FERTILIZING, MULCHING, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.
   - PROTECT EXTERIOR PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.

PLANTING SPECIFICATIONS:

GENERAL

1. REFER TO CIVIL DRAWINGS FOR NOTES AND DETAILS ON SITE GRADING AND EROSION AND SEDIMENT CONTROL. REFER TO SEEDING AND SODDING NOTES FOR TURF GRASS INSTALLATION.
2. CONTRACTOR TO SUBMIT A LIST OF PLANT MATERIALS AND SOURCES FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION. CONTRACTOR TO COORDINATE ANY DISCREPANCIES OR SUBSTITUTIONS WITH LANDSCAPE ARCHITECT.
3. DURING DELIVERY, STORAGE AND HANDLING, CONTRACTOR TO PROTECT AND MAINTAIN PLANT LIFE UNTIL PLANTED. PROVIDE PROTECTIVE COVERING OVER ALL PLANTINGS DURING TRANSPORT. ADEQUATELY PROTECT PLANTS FROM DRYING OUT, EXPOSURE OF ROOTS TO SUN, WIND OR EXTREMES OF HEAT AND COLD TEMPERATURES. IF PLANTING IS DELAYED MORE THAN 24 HOURS AFTER DELIVERY, STORE PLANTS IN LOCATION PROTECTED FROM SUN AND WIND AND PROVIDE ADEQUATE WATER TO THE ROOT BALL PACKAGE. PLANT MATERIAL DAMAGED AS A RESULT OF DELIVERY, STORAGE OR HANDLING WILL BE REJECTED.
4. PLANTS, INCLUDING TREES, SHRUBS, GROUNDCOVERS, VINES AND ORNAMENTAL GRASSES, TO BE INSTALLED BETWEEN THE FOLLOWING DATES:
   SPRING PLANTING SEASON: MARCH 15 TO JUNE 1
   FALL PLANTING SEASON: SEPTEMBER 15 TO DECEMBER 1
5. PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. PLANT TREES AND SHRUBS AFTER FINISH GRADES ARE ESTABLISHED AND BEFORE PLANTING LAWNS. PROTECT LAWN AREAS TO REMAIN AND PROMPTLY REPAIR DAMAGE CAUSED BY PLANTING OPERATIONS.
6. CONTRACTOR SHALL CAREFULLY EXAMINE THE CIVIL, RECORD AND SURVEY DRAWINGS TO BECOME FAMILIAR WITH EXISTING UNDERGROUND CONDITIONS BEFORE DIGGING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF ALL SURFACE AND SUBSURFACE CONDITIONS, AND TO NOTIFY THE LANDSCAPE ARCHITECT OF ANY CIRCUMSTANCES THAT WOULD NEGATIVELY IMPACT UNDERGROUND CONDITIONS OR THE HEALTH OF THE PLANTINGS.

PRODUCTS

1. TREE AND SHRUB MATERIAL: FURNISH NURSERY-GROWN, TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL GROWTH HABIT, WELL-DEVELOPED BRANCH STRUCTURE, HEALTHY FOLIAGE, AND VIGOROUS ROOT SYSTEMS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS IN ANSIZ60.1 "AMERICAN STANDARD FOR NURSERY STOCK". PLANTS SHALL BE FREE FROM DEFECTS OR DAMAGE, INCLUDING BUT NOT LIMITED TO, DISFIGURING KNOTS, SUNSCALD INJURIES, FROST CRACKS, ABRASION OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, FIRE ANTS, AND ALL FORMS OF INFESTATION.
2. SOIL: ASTM D 5268 TOPSOIL, pH RANGE OF 5.5 TO 7, A MINIMUM OF 6 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
3. SOIL AMENDMENTS:
   A. ORGANIC COMPOST: WELL-COMPOSTED, STABLE AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4" SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS.
   B. INORGANIC SOIL AMENDMENTS: COMMERCIAL GRADE, FREE OF TOXIC MATERIALS.
4. FERTILIZER: GRANULAR OR PELLET SLOW-RELEASE FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM IN THE COMPOSITION AS DIRECTED BY SOIL ANALYSIS TESTING.
5. ORGANIC MULCH: SHREDDED HARDWOOD IN NATURAL BROWN COLOR; 3" MAXIMUM SIZE IN LONGEST DIMENSION; FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR A TOP DRESSING OF TREES AND SHRUBS.
6. STAKES AND GUYS: DEEPROOT ARBORTIE STAKING AND GUYING MATERIAL OR APPROVED EQUAL.

WARRANTY AND MAINTENANCE:

WARRANTY

INSTALLER SHALL REPAIR OR REPLACE ANY PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE BUT ARE NOT LIMITED TO:

1. DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLECT OR ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND THE CONTRACTOR'S CONTROL
2. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.

PLANTS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE DEFINED AS DEFECTIVE. ANY DEFECTIVE PLANTS SHALL BE REMOVED IMMEDIATELY UPON NOTIFICATION BY THE LANDSCAPE ARCHITECT AND REPLACED WITHOUT COST TO THE OWNER AS SOON AS WEATHER CONDITIONS PERMIT AND WITHIN THE SPECIFIED PLANTING PERIOD.

MAINTENANCE

INITIAL MAINTENANCE SHALL BE PROVIDED IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL SUBSTANTIAL COMPLETION. UPON SUBSTANTIAL COMPLETION, MAINTENANCE FOR ALL PLANT MATERIAL SHALL BE PROVIDED FOR ONE YEAR AT A MINIMUM AND SHALL INCLUDE:

1. TREE AND SHRUB MAINTENANCE: MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. TREES AND SHRUBS TO BE PRUNED TO RESTORE NATURAL SHAPE TYPICAL OF THEIR SPECIES OR VARIETY IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICES AND APPLICABLE REQUIREMENTS IN ANSIZ60.1 "AMERICAN STANDARD FOR NURSERY STOCK".
2. GROUNDCOVER AND PLANT MAINTENANCE: MAINTAIN AND ESTABLISH PLANTINGS BY WATERING, WEEDING, FERTILIZING, MULCHING, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.
3. PROTECT EXTERIOR PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED PLANTINGS.

PLANTING INSTALLATION:

EXAMINATION AND PREPARATION

1. INSTALLER TO EXAMINE AREAS TO RECEIVE EXTERIOR PLANTS FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, AND LAWNS AND EXISTING PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS REFER TO CIVIL DRAWINGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
3. LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS PER PLANTING PLAN. OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF LAYOUT BEFORE PLANTING AND MAKE MINOR ADJUSTMENTS AS NEEDED.

PLANTING BED ESTABLISHMENT

1. VERIFY SITE GRADING PRIOR TO DIGGING. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 8 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. APPLY TOP SOIL, FERTILIZER, LIME AND SOIL AMENDMENTS AND THOROUGHLY BLEND PLANTING SOIL MIX TO CREATE ACCEPTABLE PLANTING SOIL AS DESCRIBED THROUGH ANLA.
2. EXCAVATE CIRCULAR PITS AND TRENCHES WITH SIDES SLOPED INWARD, LEAVING THE CENTER AREA RAISED SLIGHTLY TO SUPPORT THE ROOT BALL AND ASSIST IN DRAINAGE. EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER FOR BALLED AND BURLAPPED AND CONTAINER-GROWN STOCK. SCARIFY PIT OR TRENCH WALLS.

TREE, SHRUB, VINE, ORNAMENTAL GRASS AND GROUNDCOVER PLANTING

1. SET BALLED AND BURLAPPED OR CONTAINER-GROWN STOCK PLUMB AND CENTER OF PIT OR TRENCH WITH ROOT BALL 1 INCH ABOVE ADJACENT FINISHED GRADES.
2. REMOVE WIRE AND PALLETS ENTIRELY FROM ROOT BALL. REMOVE BURLAP FROM TOPS OF ROOT BALLS AND PARTIALLY FROM SIDES BUT DO NOT REMOVE FROM UNDER ROOT BALL.
3. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE MIX AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY ONE-HALF BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF PLANTING SOIL MIX.
4. APPLY 3-INCH MINIMUM AVERAGE THICKNESS OF ORGANIC MULCH EXTENDING 12 INCHES BEFORE EDGE OF PLANTING PIT OR TRENCH OR TO EDGE OF BEDLINE. DO NOT PLACE MULCH WITH 3 INCHES OF ROOT FLARE, TRUNK OR STEMS.
5. PRUNE, THIN AND SHAPE TREES AND SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICE AND TO RETAIN NATURAL CHARACTER. DO NOT CUT TREE LEADERS. REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.
6. INSTALL GUYING AND STAKING PER MANUFACTURER'S SPECIFICATIONS. REMOVE GUY WIRES AND STAKES AFTER TWO PLANTING ESTABLISHMENT SEASONS.
7. DISPOSAL: REMOVE SURPLUS SOIL AND WASTE MATERIAL, INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

PERMANENT SODDING SCHEDULE:

SEEDING DATE	SOD MIXTURE	PAD SIZES
AUG 25 - OCT (BEST) FEB - APR 15 (POSSIBLE)	LOCALLY GROWN MIN. 3 VARIETIES OF KENTUCKY BLUEGRASS AND FESCUE	MIN. 48 INCHES x 30 INCHES MAX. 5% DEVIATION IN SIZE BROKEN PADS UNACCEPTABLE

PRODUCT

PROVIDE STRONGLY ROOTED SOD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. MACHINE CUT TO PAD THICKNESS OF 3/4 INCH, EXCLUDING TOP GROWTH AND THATCH. SOD SHALL BE HEALTHY AND GREEN WITH NO DEAD OR DISCOLORED SPOTS LARGER THAN 6".

SUBMITTALS

SUBMIT DATA FOR SOD AND SOURCE.

DELIVERY, STORAGE, HANDLING

DELIVER SOD ON PALLETS IN ROLLS. DO NOT DELIVER MORE SOD THAN CAN BE LAID WITH 24 HOURS.

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

MAINTENANCE

INSPECT AND REPAIR SOD AS NEEDED. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

PERMANENT SODDING INSTALLATION:

EXAMINATION AND PREPARATION

1. INSTALLER TO EXAMINE AREAS TO RECEIVE PERMANENT SEEDING FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REFER TO CIVIL DRAWINGS FOR EROSION AND SEDIMENT CONTROL MEASURES.

SOD BED ESTABLISHMENT

1. VERIFY SITE GRADING PRIOR TO INSTALLATION. ELIMINATE UNEVEN AREAS AND LOW SPOTS AND ENSURE POSITIVE DRAINAGE.
2. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 TO 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. APPLY TOP SOIL, FERTILIZER, LIME AND SOIL AMENDMENTS AND THOROUGHLY BLEND PLANTING SOIL MIX TO CREATE ACCEPTABLE PLANTING SOIL AS DESCRIBED THROUGH ANLA.
3. RAKE SOIL SURFACE SMOOTH PRIOR TO SODDING. SOIL SURFACE SHALL BE REASONABLE FREE OF LARGE CLODS, STONES GREATER THAN 3/4 INCH IN THE LONGEST DIMENSION, AND OTHER MATERIAL WHICH WILL INTERFERE WITH PLANT ESTABLISHMENT.
4. INSTALL EDGING AT PERIPHERY OF SODDED AREAS IN STRAIGHT LINES TO CONSISTENT DEPTH.

LAYING SOD

1. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD.
2. LAY SOD WITHIN 24 FROM TIME OF STRIPING.
3. LAY SOD TIGHT TO FORM A SOLID MASS WITH NO OPEN JOINTS VISIBLE AND NO STRETCHING OR OVERLAPPING. STAGGER END JOINTS 12 INCHES MINIMUM. LEAVE A 36 INCH RADIUS AROUND ALL TREE TRUNKS FOR MULCH. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD. REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT GRASS.
4. SOD ROLL LENGTH SHALL RUN PERPENDICULAR TO ALL SLOPE FALL LINES. PIN OR STAKE SOD STRIPS THAT ARE PLANTED ON SLOPES GREATER THAN 3:1 (33 PERCENT).
5. SOD SHALL LAY FLUSH WITH PAVING, CURBS AND IRRIGATION HEADS AND ONE INCH BELOW THE TOP OF STEEL EDGING.
6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
7. AFTER SECOND WATERING AND WHEN SOIL AND SOD ARE MOIST, ROLL SOD LIGHTLY AS SOON AS POSSIBLE AFTER ITS LAID.
8. ADD TOPSOIL ALONG EXPOSED EDGES TO MATCH ADJACENT GRADE. FEATHER TOPSOIL OUT APPROXIMATELY ONE FOOT FROM EDGE OF SOD.

SOD MAINTENANCE

1. MOW GRASS AT REGULAR INTERVALS. DO NOT CUT MORE THAN 1/3 OF GRASS BLADE AT EACH MOWING. PERFORM FIRST MOWING WHEN SEEDLINGS ARE 40 PERCENT HIGHER THAN DESIRED HEIGHT.
2. IMMEDIATELY REMOVED CLIPPINGS AFTER MOWING. DO NOT LET CLIPPINGS LAY IN CLUMPS.
3. WATER TO PREVENT SOD AND SOIL FROM DRYING OUT.
4. INSPECT AND REPAIR ACCORDING TO THE SOD SCHEDULE.

PERMANENT SEEDING SCHEDULE:

PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN, TOP OF BERM, AND BASIN FLOOR.

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
AUG 25 - OCT (BEST)	SEE PLANT SCHEDULE	SEE PLANT SCHEDULE

SUBMITTALS

SUBMIT DATA FOR SEED AND SOURCE.

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

MULCH

APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

PERMANENT SEEDING INSTALLATION:

EXAMINATION AND PREPARATION

1. INSTALLER TO EXAMINE AREAS TO RECEIVE PERMANENT SEEDING FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REFER TO CIVIL DRAWINGS FOR EROSION AND SEDIMENT CONTROL MEASURES.

SEEDING BED ESTABLISHMENT

1. VERIFY SITE GRADING PRIOR TO DIGGING. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 TO 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. APPLY TOP SOIL, FERTILIZER, LIME AND SOIL AMENDMENTS AND THOROUGHLY BLEND PLANTING SOIL MIX TO CREATE ACCEPTABLE PLANTING SOIL AS DESCRIBED THROUGH ANLA.
2. TILL SOIL UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.

PERMANENT SEEDING

1. SEED ON A FRESHLY PREPARED SEEDBED. APPLY AT APPLICATION RATE DESIGNATED IN PERMANENT SEEDING SCHEDULE EVENLY IN TWO INTERSECTING DIRECTIONS. RAKE IN LIGHTLY.
2. DO NOT SOW IMMEDIATELY FOLLOWING RAID, WHEN GROUND IS TOO DRY, OR WHEN WINDS ARE OVER 12 MPH.
3. IMMEDIATELY AFTER SEEDING APPLY MULCH AND ANCHOR ACCORDING TO PERMANENT SEEDING SCHEDULE.
4. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN MULCHED.
5. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED MAINTENANCE

1. MOW GRASS AT REGULAR INTERVALS. DO NOT CUT MORE THAN 1/3 OF GRASS BLADE AT EACH MOWING. PERFORM FIRST MOWING WHEN SEEDLINGS ARE 40 PERCENT HIGHER THAN DESIRED HEIGHT.
2. IMMEDIATELY REMOVED CLIPPINGS AFTER MOWING. DO NOT LET CLIPPINGS LAY IN CLUMPS.
3. WATER TO PREVENT GRASS AND SOIL FROM DRYING OUT.
4. INSPECT AND REPAIR ACCORDING TO THE PERMANENT SEED SCHEDULE.

IRRIGATION SPECIFICATIONS:

GENERAL

1. PROVIDE A COMPLETE AND OPERATING LAWN SPRINKLER INSTALLATION AS SHOWN ON THE PLANS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING ITEMS:
   1.1 PIPE AND FITTINGS
   1.2 SPRINKLER HEADS
   1.3 CONTROL SYSTEM AND CONNECTION TO ELECTRICAL SUPPLY
   1.4 TRENCHING, INSTALLATION OF SYSTEM, CONNECTION TO WATER SOURCE, TESTING, AND BACKFILLING

GENERAL CONDITIONS SPECIFICALLY FOR LANDSCAPE IRRIGATION

1. THE CONTRACTOR WILL FLAG THE LOCATION OF ALL HEADS, ELECTRIC VALVES, QUICK COUPLER VALVES, GATE VALVES, AUTOMATIC CONTROLLERS, BACKFLOW PREVENTERS, ETC., PRIOR TO CONSTRUCTION FOR THE REPRESENTATIVE'S APPROVAL. THE CONTRACTOR SHALL REPORT TO THE REPRESENTATIVE ANY DEVIATIONS BETWEEN THE IRRIGATION PLAN, SPECIFICATIONS, AND TO THE SITE. FAILURE TO DO SO PRIOR TO THE INSTALLATION OF EQUIPMENT (WHICH SUBSEQUENTLY REQUIRES REPLACEMENT OR RELOCATION OF THE EQUIPMENT) WILL RESULT IN THE WORK BEING DONE AT THE CONTRACTOR'S EXPENSE.
2. ALL LOCAL, MUNICIPAL AND STATE LAWS, ORDINANCES, CODES AND REGULATIONS RELATING TO, OR GOVERNING OF ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND WILL BE CARRIED OUT BY THE CONTRACTOR. THE CONTRACTOR MUST HAVE A VALID LICENSE, AS ISSUED BY THE TEXAS BOARD OF IRRIGATORS, MUST CARRY SUFFICIENT INSURANCE COVERAGE, AND MUST BE ACTIVE IN IRRIGATION INSTALLATION FOR A MINIMUM OF 5 YEARS.
3. ANY PERMITS NEEDED FOR CONSTRUCTION OF THE WORK INCLUDED IN THIS CONTRACT, WHICH IS REQUIRED BY ANY LEGALLY CONSTITUTED AUTHORITY HAVING JURISDICTION, SHALL BE OBTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PAY FOR ALL COSTS IN CONNECTION WITH ANY INSPECTIONS OR EXAMINATIONS REQUIRED BY THESE AUTHORITIES. THE REPRESENTATIVE WILL BE NOTIFIED WHEN THESE INSPECTIONS ARE REQUIRED. ANY NECESSARY WORK NEEDED TO BE DONE BY THE CONTRACTOR AS A RESULT OF THESE INSPECTIONS WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. COPIES OF ALL PERMITS AND INSPECTIONS REPORTS SHALL BE FORWARDED TO THE REPRESENTATIVE.

GUARANTEE AND MAINTENANCE

1. MATERIAL AND WORKMANSHIP SHALL BE FUL

CITY OF WAGONER LANDSCAPE COMPLIANCE CHART

ITEM	UNITS	REQUIRED	PROVIDED
COVERAGE: TOTAL LANDSCAPE AREA	20893.05 SF		
1 TREE / 2000 SF		10.4	11
5 SHRUBS / 2000 SF		52.2	53
LOCATION: PUBLIC AND PRIVATE STREET FRONTAGE	331.85 LF		
1 TREE / 50 LF		7	7
PARKING LOT LANDSCAPE: 3'-5' BUFFER	149.17 LF		
8 SHRUBS / 50 LF		24	--
OR		OR	
2 TREES / 50 LF		6	6
1 TREE, 1 SHRUB / PARKING ISLAND	7 ISLANDS	7 TREE, 7 SHRUB	7 TREE, 7 SHRUB
PARKING SPACES 30 OR MORE = 10% PARKING LANDSCAPE	25 SPACES	NO	NO
SIGN LANDSCAPE: 5 FT OFFSET FROM SIGN		230 SF	255.36 SF

IRRIGATION: REQUIRED NEW LANDSCAPING SHALL BE IRRIGATED BY ONE OF THE FOLLOWING METHODS
A. UNDERGROUND SPRINKLING SYSTEM; OR
B. DRIP SYSTEM

REFER TO L5.01 FOR PLANT SCHEDULE

PLANT LEGEND

SYMBOL	CODE	COMMON NAME	BOTANICAL NAME
LARGE TREE			
	QUMA	BURR OAK	QUERCUS MACROCARPA
	ULCR	CEDAR ELM	ULMUS CRASSIFOLIA
	QUMU	CHINQUAPIN OAK	QUERUS MUEHIENBERGII
	CAIL	PECAN	CARYA ILLINOINENSIS
	ULAP	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'
	QUSH	SHUMARD OAK	QUERCUS SHUMARDII
MEDIUM TREE			
	JUVI	EASTERN REDCEDAR	JUNIPERUS VIRGINIANA
SMALL TREE			
	CHLB	BUBBA DESERT WILLOW	CHILOPSIS LINEARIS 'BUBBA'
	CECA	EASTERN REDBUD	CERCIS CANADENSIS
	PRME	MEXICAN PLUM	PRUNUS MEXICANA
	ILDE	POSSUMHAW HOLLY	ILEX DECIDUA
	ILVO	YAUPON HOLLY	ILEX VOMITORIA
SHRUBS			
	JUHP	ANDORRA JUNIPER	JUNIPERUS HORIZONTALIS 'PLUMOSA COMPACTA'
	NOMI	BEAR GRASS	NOLINA MICROCARPA
	MYPU	DWARF SOUTHERN WAX MYRTLE	MYRICA PUSILLA
	ILVN	DWARF YAUPON	ILEX VOMITORIA 'NANA'
	HEPA	RED YUCCA	HESPERALOE PARVIFLORA
PERENNIALS			
	CADB	BERLANDIER'S SUNDROPS	CALYLOPHUS DRUMMONDIANUS VAR. BERLANDIERI
	TESC	FOUR NERVE DAISY	TETRANEURIS SCAPOSA
	ECPU	PURPLE CONEFLOWER	ECHINACEA PURPUREA
ORNAMENTAL GRASSES + SEDGES			
	BOGR	BLUE GRAMA GRASS	BOUTELOUA GRACILIS
GROUND COVERS			
	BODA	BUFFALO GRASS	BOUTELOUA DACTYLOIDES

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

Know what's below.
Call before you dig.

CONTRACTOR SHALL NOTIFY "OKIE811" (811) OR (1-800-522-6543) 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 "OKIE811".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

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205-397-1142
JUSTIN DUCK

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WAGONER, OK, 74467

STATE OF OKLAHOMA
JAMESON PINSON
LA08020
LICENSED LANDSCAPE ARCHITECT
05/04/2026

REVISIONS

NO.	DATE	
1	03. 26. 2026	REVISIONS PER CITY COMMENTS
2	03. 30. 2026	REVISIONS PER CITY COMMENTS

PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-LS1
CHECKED BY	MMR
DRAWN BY	JEB
SCALE	1" = 30'
DATE	05-01-2026

SHEET

LANDSCAPE PLAN

L5.00

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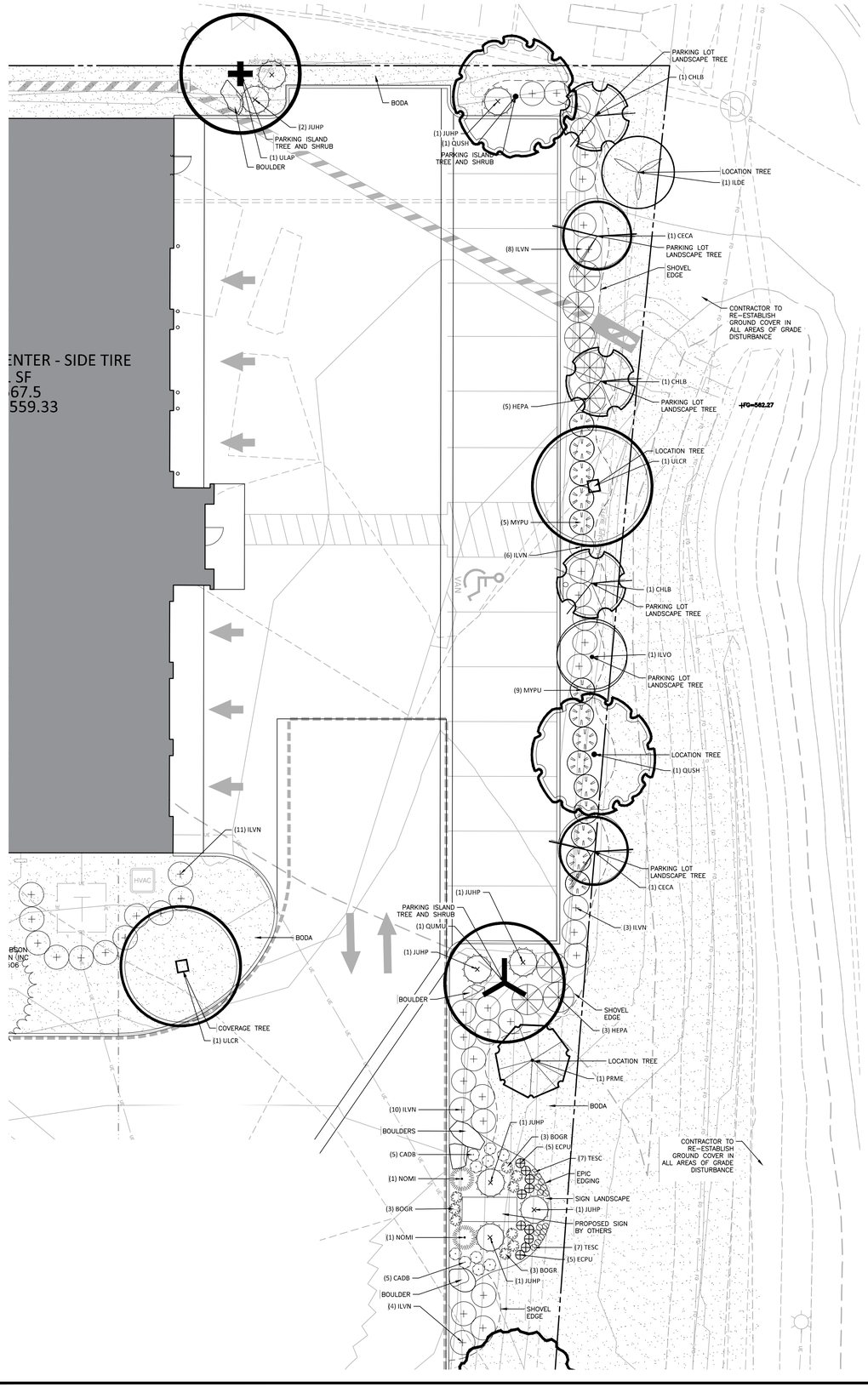

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CAL	HEIGHT		REMARKS
LARGE TREE								
	QUMA	1	BURR OAK	QUERCUS MACROCARPA	3"	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
	ULCR	2	CEDAR ELM	ULMUS CRASSIFOLIA	3"	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
	QUMU	3	CHINQUAPIN OAK	QUERUS MUEHIENBERGII	3"	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
	CAIL	3	PECAN	CARYA ILLINOINENSIS	3"	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
	ULAP	3	PRINCETON AMERICAN ELM	ULMUS AMERICANA 'PRINCETON'	3"	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
	QUSH	3	SHUMARD OAK	QUERCUS SHUMARDII	3"	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
MEDIUM TREE								
	JUVI	3	EASTERN REDCEDAR	JUNIPERUS VIRGINIANA	65 GAL.	10`-12`		FULL AND MATCHED SIZE WITH STRONG CENTRAL LEADER
SMALL TREE								
	CHLB	3	BUBBA DESERT WILLOW	CHILOPSIS LINEARIS 'BUBBA'	2" MIN	7`-8`		MULTI-STEM. 1" CAL. PER STEM. MIN. 3 STEMS. NO CLUMP FORM
	CECA	2	EASTERN REDBUD	CERCIS CANADENSIS	2" MIN	7`-8`		CO-DOMINANT STEM. FULL AND MATCHED
	PRME	2	MEXICAN PLUM	PRUNUS MEXICANA	2" MIN	7`-8`		CO-DOMINANT STEM. FULL AND MATCHED
	ILDE	1	POSSUMHAW HOLLY	ILEX DECIDUA	2" MIN	7`-8`		MULTI-STEM. 1" CAL. PER STEM. MIN. 3 STEMS. NO CLUMP FORM
	ILVO	5	YAUPON HOLLY	ILEX VOMITORIA	2" MIN	7`-8`		CO-DOMINANT STEM. FULL AND MATCHED
SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	HEIGHT	SPREAD	REMARKS
SHRUBS								
	JUHP	16	ANDORRA JUNIPER	JUNIPERUS HORIZONTALIS 'PLUMOSA COMPACTA'	3 GAL	6" - 12"	12" - 18"	
	NOMI	2	BEAR GRASS	NOLINA MICROCARPA	5 GAL	15"- 24"	15"- 24"	
	MYPU	14	DWARF SOUTHERN WAX MYRTLE	MYRICA PUSILLA	7 GAL	24" - 36"	18"- 30"	UNIFORM, FULL
	ILVN	42	DWARF YAUPON	ILEX VOMITORIA `NANA`	7 GAL	24" - 36"	30"-42"	UNIFORM, FULL
	HEPA	8	RED YUCCA	HESPERALOE PARVIFLORA	5 GAL	15"- 24"	15"- 24"	
PERENNIALS								
	CADB	10	BERLANDIER'S SUNDROPS	CALYLOPHUS DRUMMONDIANUS VAR. BERLANDIERI	1 GAL	6" - 12"	6" - 12"	
	TESC	14	FOUR NERVE DAISY	TETRANEURIS SCAPOSA	1 GAL	12" - 18"	6" - 12"	
	ECPU	10	PURPLE CONEFLOWER	ECHINACEA PURPUREA	1 GAL	12" - 18"	6" - 12"	
ORNAMENTAL GRASSES + SEDGES								
	BOGR	9	BLUE GRAMA GRASS	BOUTELOUA GRACILIS	1 GAL	12" - 18"	6" - 12"	
SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT			REMARKS
GROUND COVERS								
	BODA	24,128 SF	BUFFALO GRASS	BOUTELOUA DACTYLOIDES	SOD			

GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

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PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-LS1
CHECKED BY	MMR
DRAWN BY	JEB
SCALE	1" = 10'
DATE	05-01-2026

SHEET

LANDSCAPE PLAN

L5.01

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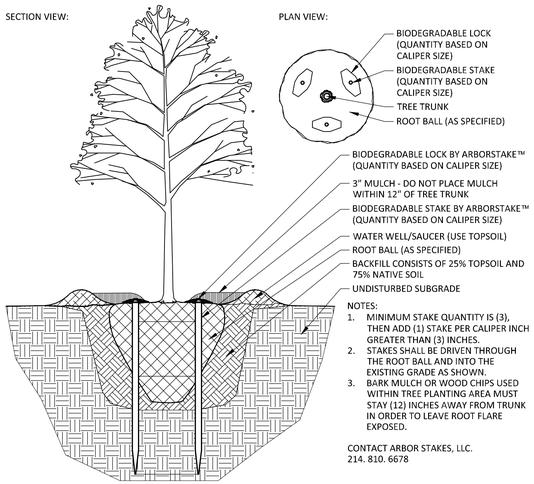
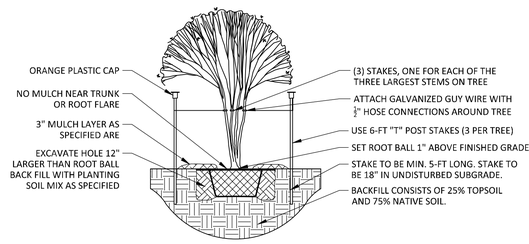


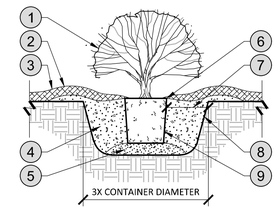
NOTES:
1. MINIMUM STAKE QUANTITY IS (3), THEN ADD (1) STAKE PER CALIPER INCH GREATER THAN (3) INCHES.
2. STAKES SHALL BE DRIVEN THROUGH THE ROOT BALL AND INTO THE EXISTING GRADE AS SHOWN.
3. BARK MULCH OR WOOD CHIPS USED WITHIN TREE PLANTING AREA MUST STAY (12) INCHES AWAY FROM TRUNK IN ORDER TO LEAVE ROOT FLARE EXPOSED.

CONTACT ARBOR STAKES, LLC.
214. 810. 6678

01 BELOW-GROUND TREE STAKING
SCALE: 1/4" = 1'-0"



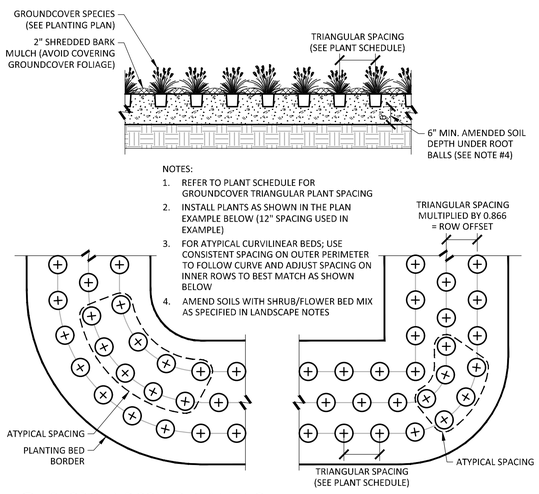
02 ORNAMENTAL TREE PLANTING
SCALE: 1/4" = 1'-0"



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.

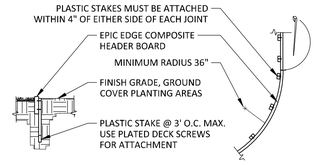
NOTES:
1. SELECT SHRUBS THAT MEET THE SPECIFIED HEIGHT IN THE PLANT SCHEDULE, MEASURED PER THE AMERICAN STANDARD FOR NURSERY STOCK METHODS; PEST AND DISEASE FREE; CROWN WITH FULL FOLIAGE; GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.
2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, 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.

03 SHRUB PLANTING
SCALE: 1/2" = 1'-0"



NOTES:
1. REFER TO PLANT SCHEDULE FOR GROUNDCOVER TRIANGULAR PLANT SPACING
2. INSTALL PLANTS AS SHOWN IN THE PLAN EXAMPLE BELOW (12" SPACING USED IN EXAMPLE)
3. FOR ATYPICAL CURVILINEAR BEDS; USE CONSISTENT SPACING ON OUTER PERIMETER TO FOLLOW CURVE AND ADJUST SPACING ON INNER ROWS TO BEST MATCH AS SHOWN BELOW
4. AMEND SOILS WITH SHRUB/FLOWER BED MIX AS SPECIFIED IN LANDSCAPE NOTES

04 GROUNDCOVER PLANTING
SCALE: 1/2" = 1'-0"



SECTION VIEW:

HDR. SIZE	ACTUAL DIMENSIONS	MIN. RADIUS POSSIBLE
1X6	$5\frac{5}{16}$"X$\frac{5}{8}$" X20'	36"

PLAN VIEW:

NOTE:
1. USE COARSE WOOD WORKING TOOLS FOR CUTTING & DRILLING.

EPIC EDGE CHART
COLOR OPTIONS: CARAMEL BROWN
MANUFACTURED BY: EPIC PLASTICS, 104 E. TURER RD., LODI, CA 95240
URL ADDRESS: WWW.EPICPLASTICS.COM

05 EPIC EDGE COMPOSITE HEADER BOARD
SCALE: 1/4" = 1'-0"

NOTES:
1. BOULDERS LABELED ON PLAN SHALL VARY IN SIZE ACCORDING TO SYMBOL SIZE. SMALLER BOULDERS SHALL HAVE A MINIMUM EXPOSED HEIGHT OF EIGHTEEN INCHES (18"), MINIMUM WIDTH OF THIRTY–SIX INCHES (36") AND A MINIMUM DEPTH OF TWENTY–FOUR INCHES (24"). LARGER BOULDERS SHALL HAVE A MINIMUM EXPOSED HEIGHT OF TWENTY–FOUR INCHES (24"), MINIMUM WIDTH OF FORTY–EIGHT (48") AND A MINIMUM DEPTH OF THIRTY–SIX (36").
2. BOULDERS SHALL BE RECESSED INTO THE GRADE SUCH THAT 1/4 OF THE TOTAL MASS OF EACH BOULDER IS BELOW THE FINISH GRADE OR TOP OF ROCK/MULCH.
3. ORIENT BOULDERS SO THAT ITS LONGEST SIDE IS PARALLEL TO THE GROUND PLANE TO ACHIEVE A NATURAL LOOK.

06 BOULDER PLACEMENT
SCALE: 1/4" = 1'-0"

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

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PLAN INFORMATION

PROJECT NO.	EXO25005
FILENAME	EXO25005-LD1
CHECKED BY	MMR
DRAWN BY	JEB
SCALE	AS SHOWN
DATE	05-01-2026

SHEET
LANDSCAPE DETAILS
L5.02

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