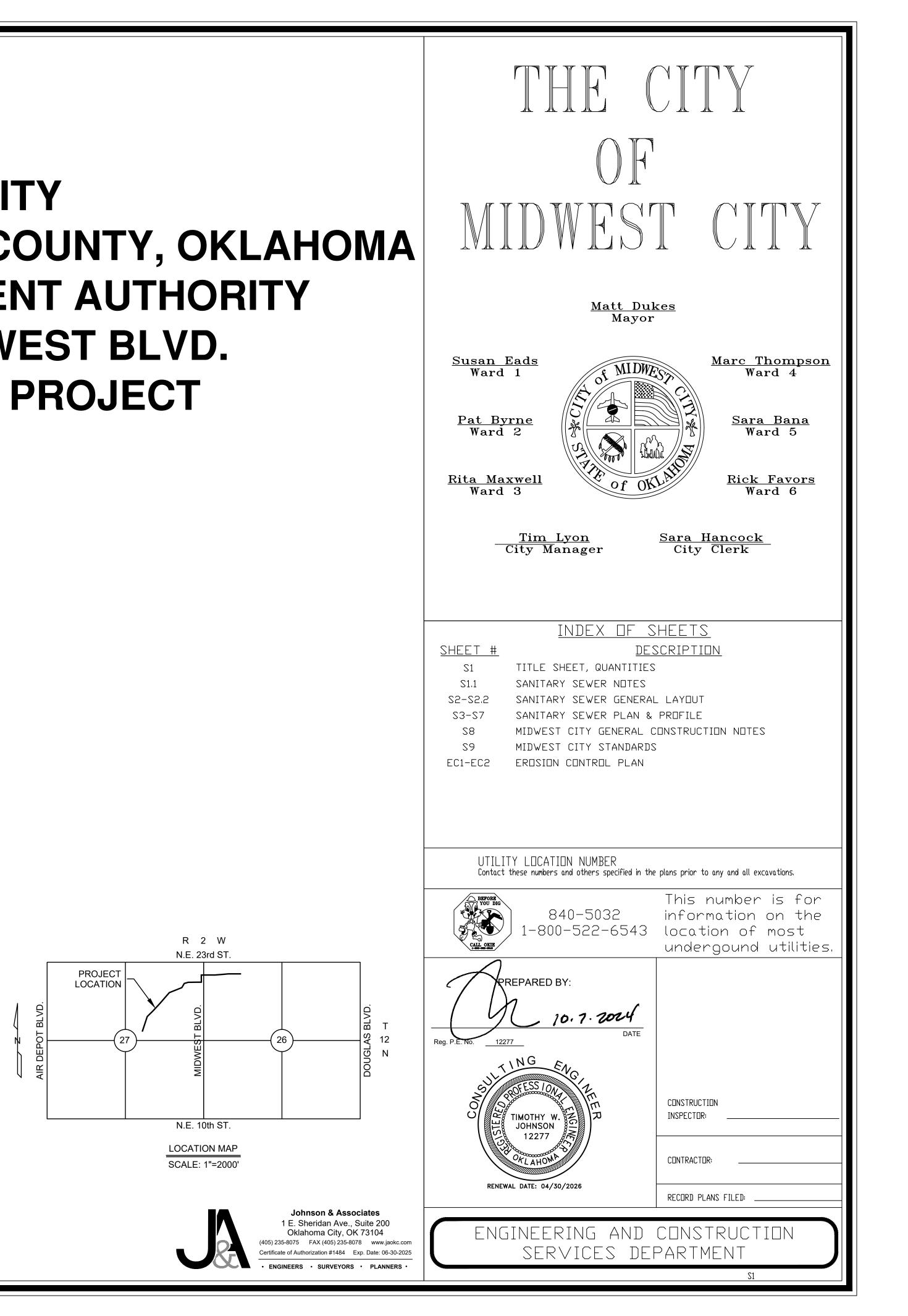
SUMMARY OF QUANTITIES					
ITEM NO.	ITEM	UNIT	QUANTITY	AS-BUILT	
	SANITARY SEWER QUANTITIES				
1.	8" SANITARY SEWER LINE (SDR 35)	LF	3273		
2.	4' DIA. MANHOLE	EA	14		
3.	5' DIA. DROP MANHOLE	EA	1		
4.	WATERPROOF SEALED MANHOLE LID	EA	1		
5.	EXTRA DEPTH MANHOLE WALL	VF	156		
6.	TRENCHING (6'- 8')	LF	334		
7.	TRENCHING (8'- 10')	LF	340		
8.	TRENCHING (10'- 12')	LF	879		
9.	TRENCHING (12'- 14')	LF	573		
10.	TRENCHING (14'- 16')	LF	415		
11.	TRENCHING (16'- 18')	LF	220		
12.	TRENCHING (18'- 20')	LF	100		
13.	TRENCHING (20'-22')	LF	34		
14.	TRENCHING (22'-24')	LF	140		
15.	TRENCHING (24'-26')	LF	165		
16.	STEEL ENCASEMENT FOR 8" MAIN	LF	100		
17.	BORE w/ STEEL ENCASEMENT FOR 8" MAIN	LF	120		
18.	CRUSHED ROCK BEDDING	CY	694		
19.	PIPE LEAKAGE TEST	LS	1		
20.	PIPE DEFLECTION TEST	LS	1		
21.	MANHOLE TEST	LS	1		
22.	CLEARING & GRUBBING	LS	1		
23.	SODDING (AS-NEEDED)	SY	7111		
24.	TRAFFIC CONTROL	LS	1		

MIDWEST CITY MIDWEST CITY, OKLAHOMA COUNTY, OKLAHOMA ECONOMIC DEVELOPMENT AUTHORITY N.E. 23rd ST. & MIDWEST BLVD. SANITARY SEWER PROJECT



GENERAL CONSTRUCTION NOTES

- G1. The Contractor is responsible for the location of all utilities and must have all utilities located prior to commencing any excavation. The Contractor shall verify the invert and flowline elevations of all water lines, sanitary sewers, storm drains, drainage structures, and surface drainage courses prior to laying any new pipe. The Contractor must call OKIE at (405) 840-5032 to have all public utilities (water and sanitary sewer lines) and franchised utilities (electric lines, telephone cables, fiber optic lines, cable television, gas lines, and oil pipelines) located at least two (2) days prior to starting construction.
- G2. The Contractor is responsible for the protection of all utility lines and structures, whether shown or not, both public and private. Any damage to the utility line or structure, because of the Contractor's actions, shall be repaired solely at the Contractor's expense to a condition as good or better than that prior to the damage.
- G3. The Contractor must call 9-1-1 IMMEDIATELY if a natural gas pipeline is cut, damaged or otherwise disturbed. The Midwest City Fire Department and Oklahoma Natural Gas Company must inspect the pipe before work can resume at that location.
- G4. The Contractor must notify the following persons at least forty-eight (48) hours in advance of placing or removing any barricades or otherwise modifying existing traffic control devices or placing any temporary traffic control device:

Engineer	(405) 739-1215
Construction inspector	(405) 739-1267

- G5. The Contractor must notify all affected city utility customers at least two (2) working days prior to anticipated service interruption during construction. Streets temporarily closed to through traffic during construction shall remain open to local traffic to the maximum extent practical during the work. Detour routes shall be furnished by the Engineer. The Contractor shall furnish and erect all detour signage as directed.
- G6. Where work is carried on, in, or adjacent to any street, alley, or public place, the Contractor shall, at his own expense, furnish and erect such barricades, fences, lights, and/or other protective barriers, and take such other precautionary measures for the protection of persons or property and of the work as are necessary. A sufficient number of barricades shall be erected to keep vehicles from being driven into any work under construction. Failure to comply with this requirement will result in the Engineer shutting down the work until the Contractor has provided the necessary protection. All such barricades and signs and the use thereof shall be in the strict compliance with the Manual on Uniform Traffic Control Devices, Part VI - Temporary Traffic Control
- G7. All construction materials and work shall conform to the applicable City of Midwest City and the Oklahoma Department of Transportation (ODOT) standards and specifications with the additional supplements, as referenced in the project documents.
- G8. All elevations shown are on the Mean Sea Level (M.S.L.) datum. All dimensions to curb are to the back of curb. All dimensions to street "centerlines" are to the centerline of the right-of-way or section line.
- G9. The Contractor shall develop and make all detail surveys needed for construction. The cost of the construction survey and staking shall be included in the price bid for other items of work.
- G10. All fences removed as a result of the Contractor's actions shall be replaced in kind with fencing equal to or better than the original fence. All costs for fence removal and replacement shall be included in the price bid for other items of work.
- G11. All work not classified as a contract pay item shall be considered incidental construction and the cost for such shall be included in the price bid for other items of work.
- G12. All removed salvageable items shall remain the property of the City and shall be stockpiled in an area within the project limits designated by the Engineer for collection by city forces.
- G13. All ditches disturbed during construction shall be reshaped and sloped to drain. Solid slab sod shall be used in all areas where solid has been exposed and positive means of sod stabilization shall be used to prevent displacement of sod by storm waters.
- G14. Erosion control devices in the form of sediment fences are required at driveway culverts, street culverts, drainage structures, storm sewer manholes, and sanitary sewer manholes located in ditches where soil has been disturbed. Those items shall be placed as directed by the Engineer and the cost shall be included in other items.
- of each day's work. No more trench shall be opened than can be completed in the same day unless temporary silt fence is placed immediately downstream of any area intended to remain disturbed for more than one day. Excavated materials shall be placed on the high side of the trench.
- G16. City personnel are not permitted to enter any trench or excavation more than five (5) feet deep, for any reason, unless it is sloped or shored in accordance with 29 CFR 1926 OSHA subpart P, "Excavation and Trenches."
- G17. All disturbed, unpaved areas within easements and right-of-way shall be seeded, fertilized, and watered in accordance with ODOT specifications section 232, "Seeding", as required under the "Revegetation" pay item if provided or as noted otherwise on the plans. Seeded areas shall be repaired and maintained until all portions of the project are complete and approved for final acceptance. All other areas disturbed as a result of the Contractor's actions shall be restored in a manner acceptable to the Engineer to a condition as good or better than that prior to the disturbance at no expense to the City.
- G18. The City shall furnish bacteriological water line testing at no expense to the Contractor for municipally funded projects.

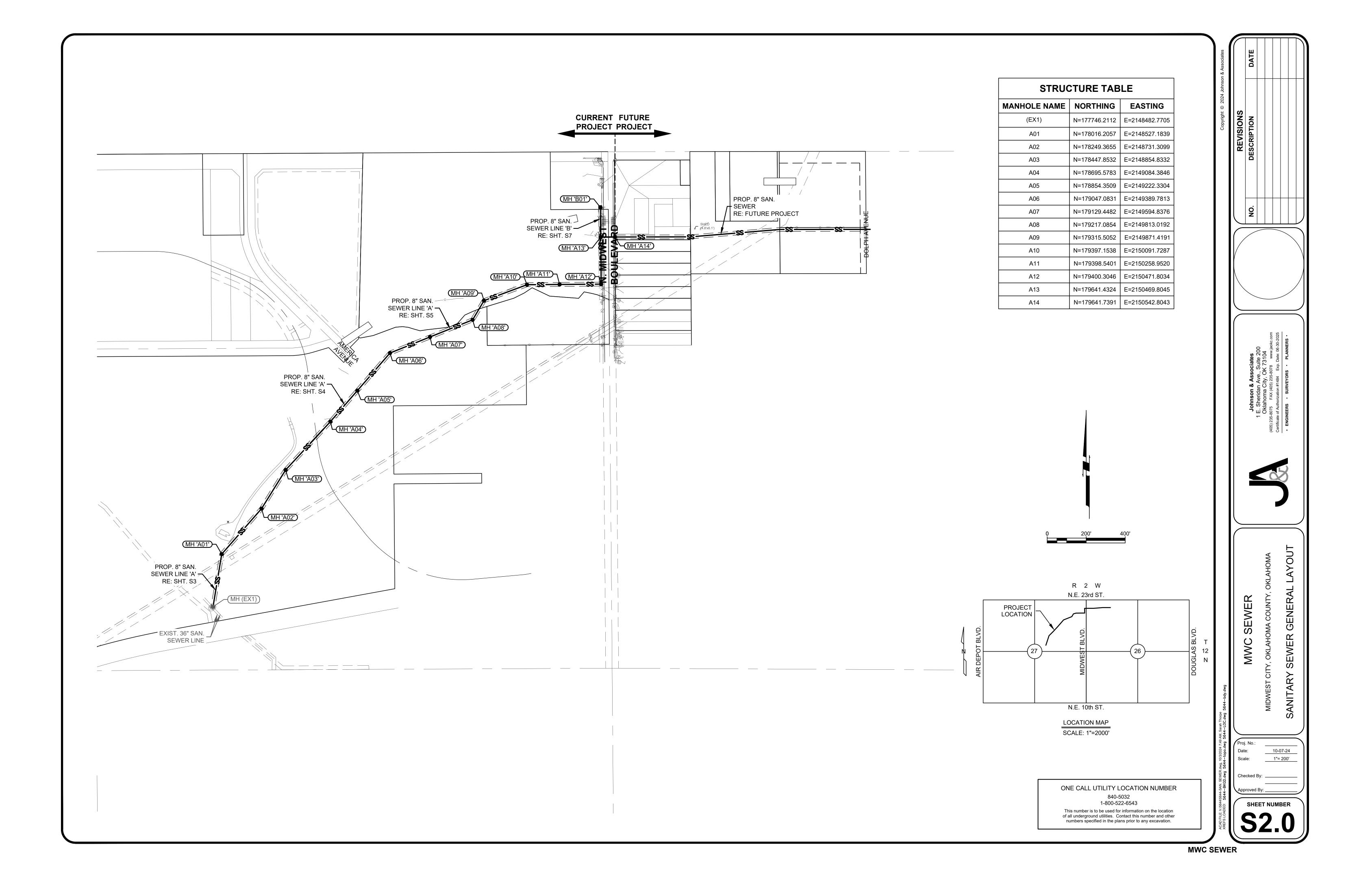
G15. Sediment control for utility construction is required. Trenches must be backfilled at the end

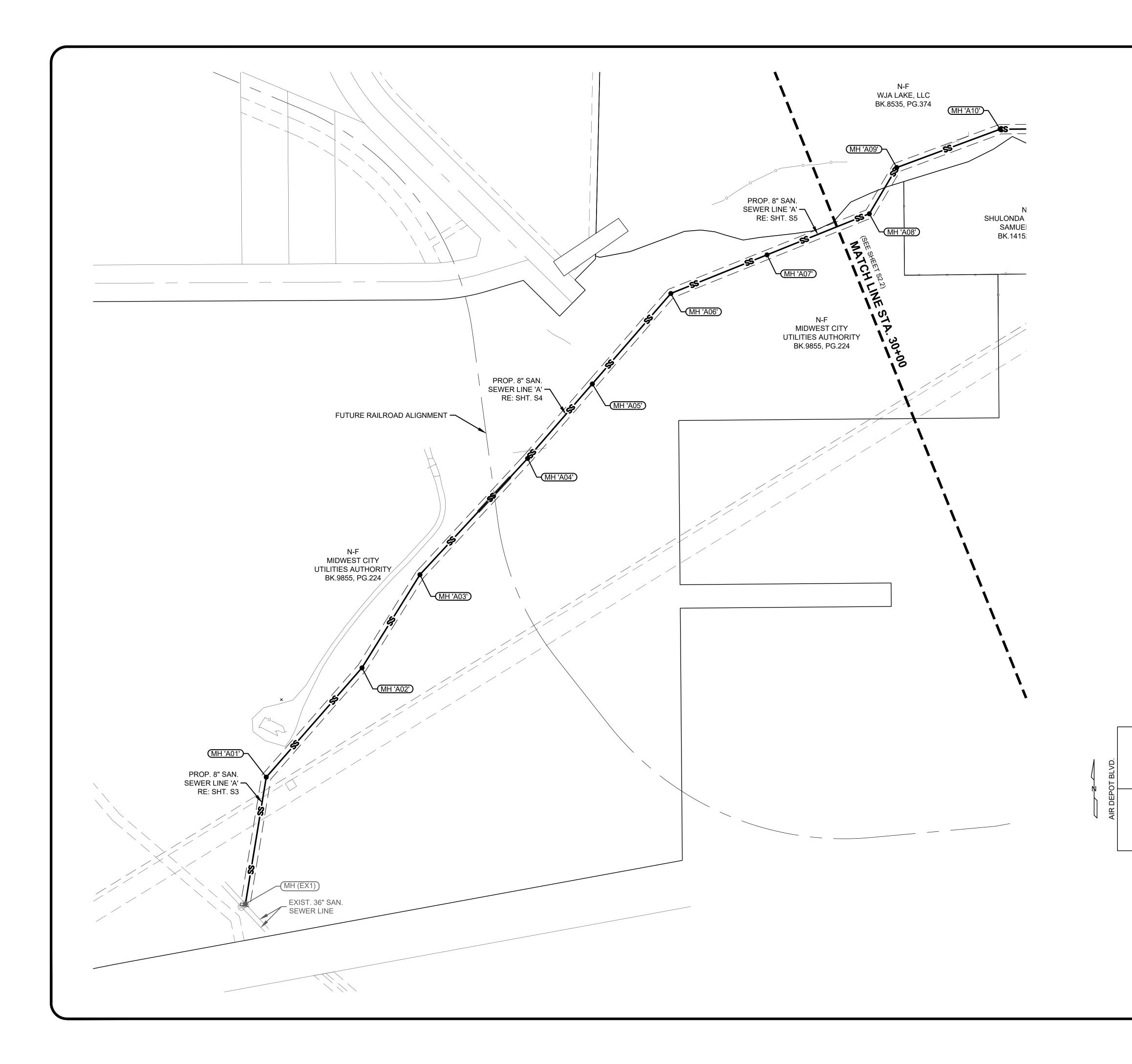
SANITARY SEWER LINE MATERIALS AND CONSTRUCTION NOTES

- SS1. All sanitary sewer lines shall be leakage tested in accordance with the requirements of Oklahoma Administrative Code (OAC) title 252, chapter 656, Water Pollution Control Construction Standards 252:656-5-5. All flexible sewer pipe shall be deflection tested after the final backfill has been in place for at least 30 days. Deflection tests shall be in accordance with 252:656-5-5(a). The mandrel used shall be furnished by the Midwest City Engineering Division. Leakage test shall be in accordance with 252:656-5-(b).
- SS2. Manhole steps are not required and shall not be installed. Ladders in lieu of manhole steps are not required.
- SS3. Watertight frames and covers shall be provided on all manholes. All interior manhole surfaces shall be protected against corrosion using a coal tar epoxy lining or an approved equal.
- SS4. Manholes noted for demolition shall be removed in their entirety. All sewers entering and leaving demolished manholes noted to be abandoned, shall be removed to the nearest pipe joint outside the manhole or to a point 10 feet from the manhole, whichever is less, and permanently plugged with concrete. All sewer pipe plugs must be watertight. Frames and covers from demolished manholes shall remain the property of the city.
- SS5. Granular backfill shall be placed in all trenches up to ground level where sewer lines cross below proposed or existing pavements. Pavement cuts shall be restored in accordance with the city's standard details.
- SS6. All new sewerline shall have be installed with a continuous tracer wire. Wire shall be a minimum of 12 gauge solid copper with thermoplastic insulation recommended for direct burial. Wire connectors shall be 3M DBR or approved equal, and be watertight. Access points for wire shall be located at all valve boxes, terminal ends, and every 500 ft of continuous runs. Access points shall consist of a box securely fastened to valves containing a loop of wire. Tracer wire shall be laid flat and securely affixed to pipe at 10 ft intervals. Contractor is required to test continuity of tracer wire in presence of inspector.
- SS7. Where Manhole is in pavement, it shall be constructed with a concrete apron. Also required will be an in-ground test station. All tracer wire shall be routed into test station which will be traffic rated. Lid shall be ductile iron with a encapsulated magnet and be green in color. A standard valve box will not be acceptable.

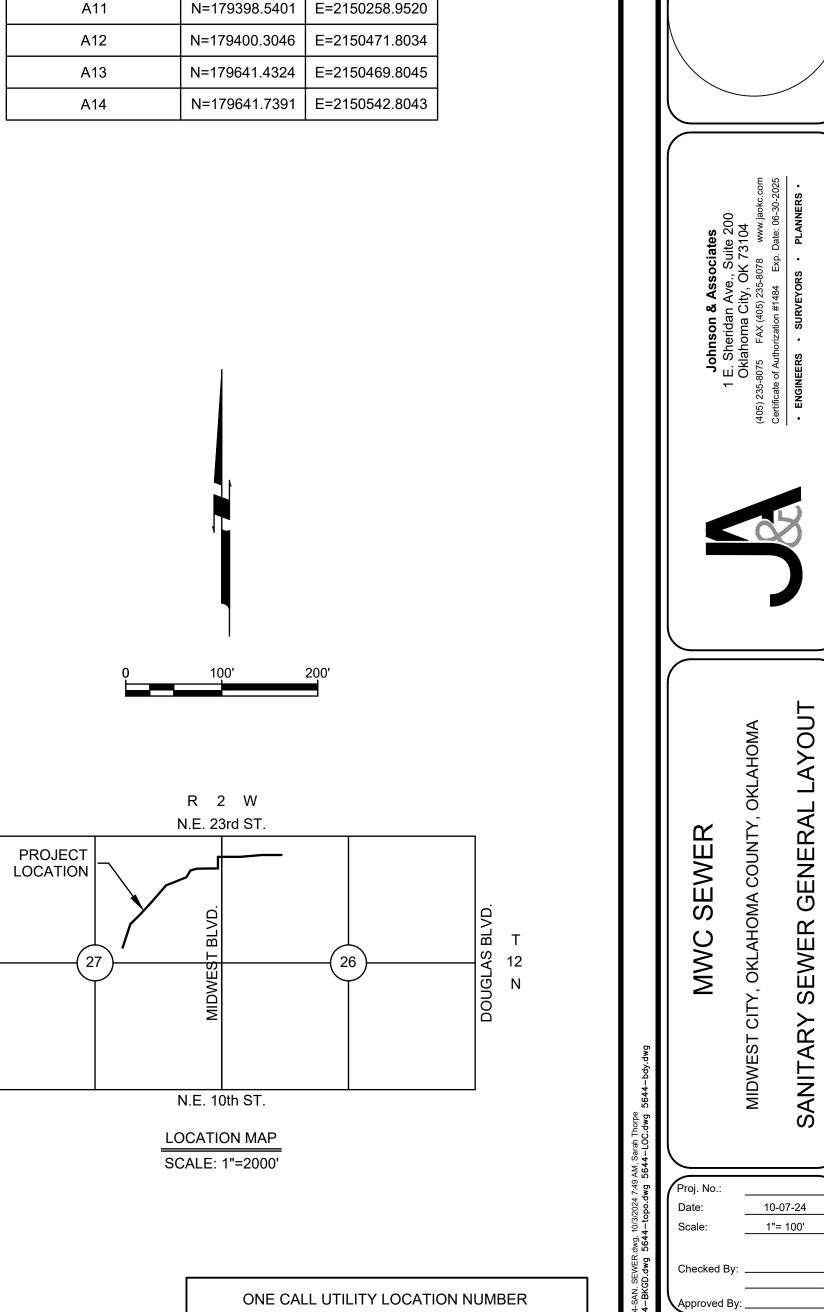
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MWC SEWER





	NORTHING	EASTING
(EX1)	N=177746.2112	E=2148482.7705
A01	N=178016.2057	E=2148527.1839
A02	N=178249.3655	E=2148731.3099
A03	N=178447.8532	E=2148854.8332
A04	N=178695.5783	E=2149084.3846
A05	N=178854.3509	E=2149222.3304
A06	N=179047.0831	E=2149389.7813
A07	N=179129.4482	E=2149594.8376
A08	N=179217.0854	E=2149813.0192
A09	N=179315.5052	E=2149871.4191
A10	N=179397.1538	E=2150091.7287
A11	N=179398.5401	E=2150258.9520
A12	N=179400.3046	E=2150471.8034
A13	N=179641.4324	E=2150469.8045
A14	N=179641.7391	E=2150542.8043

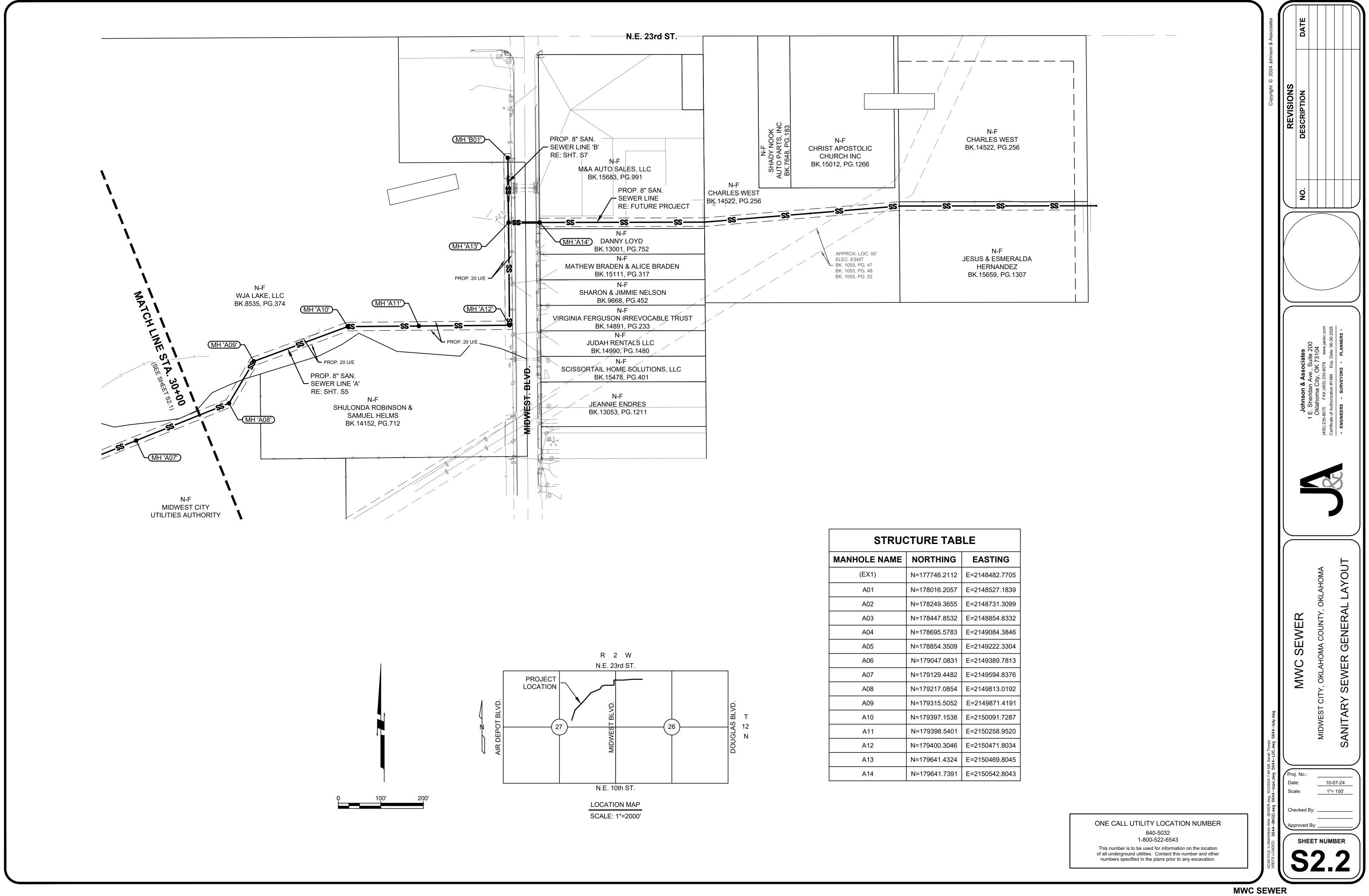


840-5032 1-800-522-6543 This number is to be used for information on the location of all underground utilities. Contact this number and other numbers specified in the plans prior to any excavation.

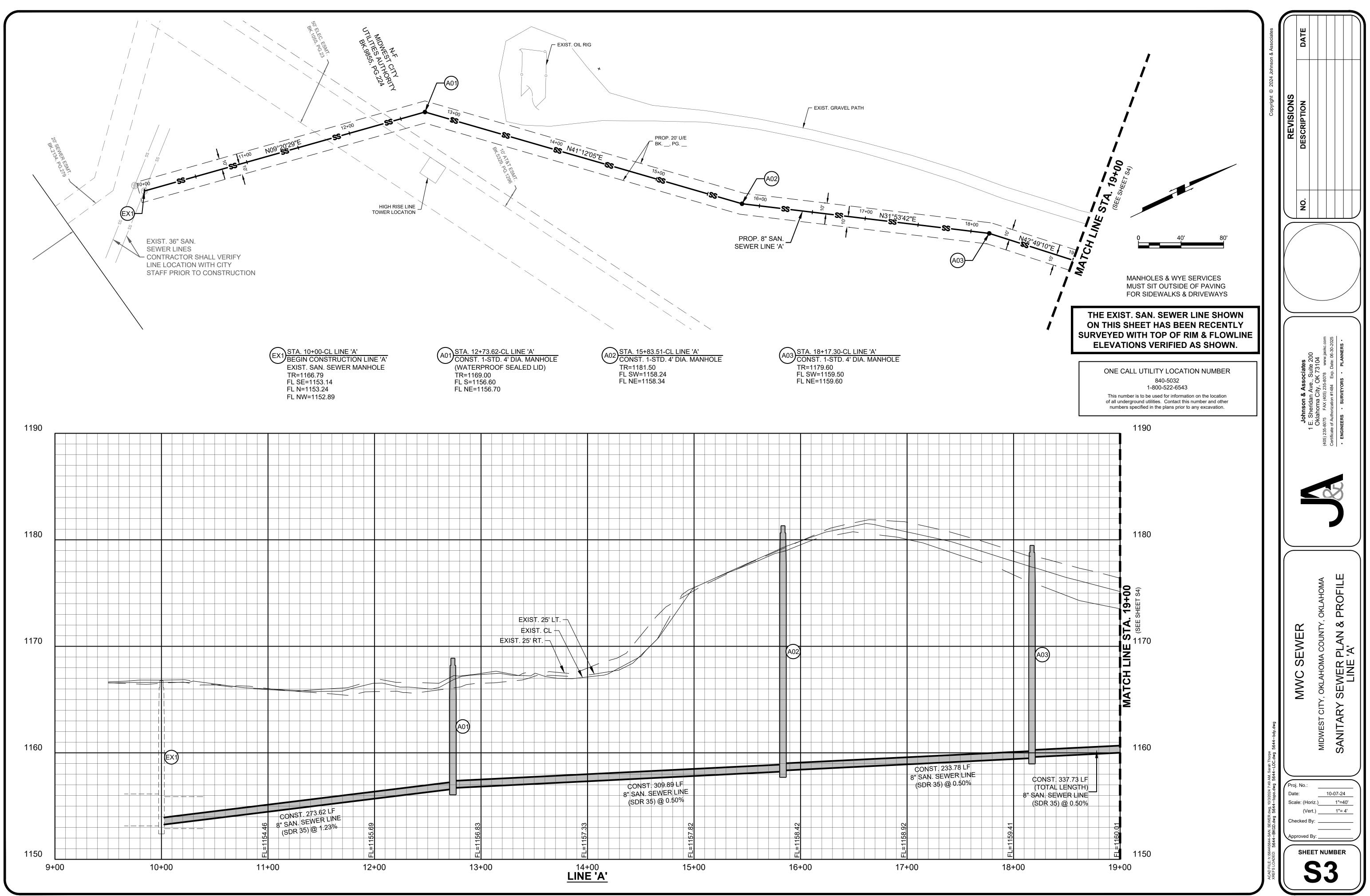
MWC SEWER

SHEET NUMBER

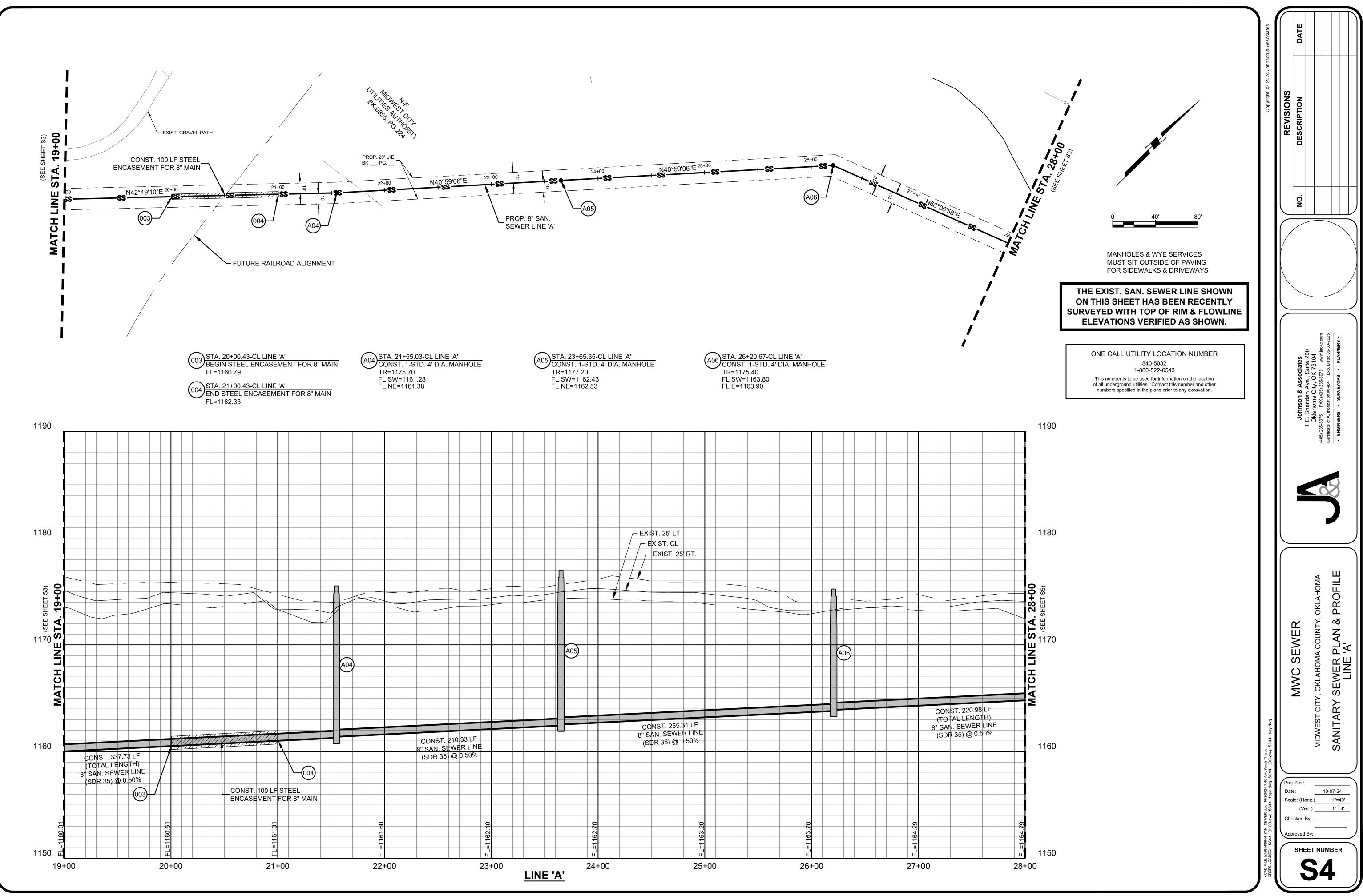
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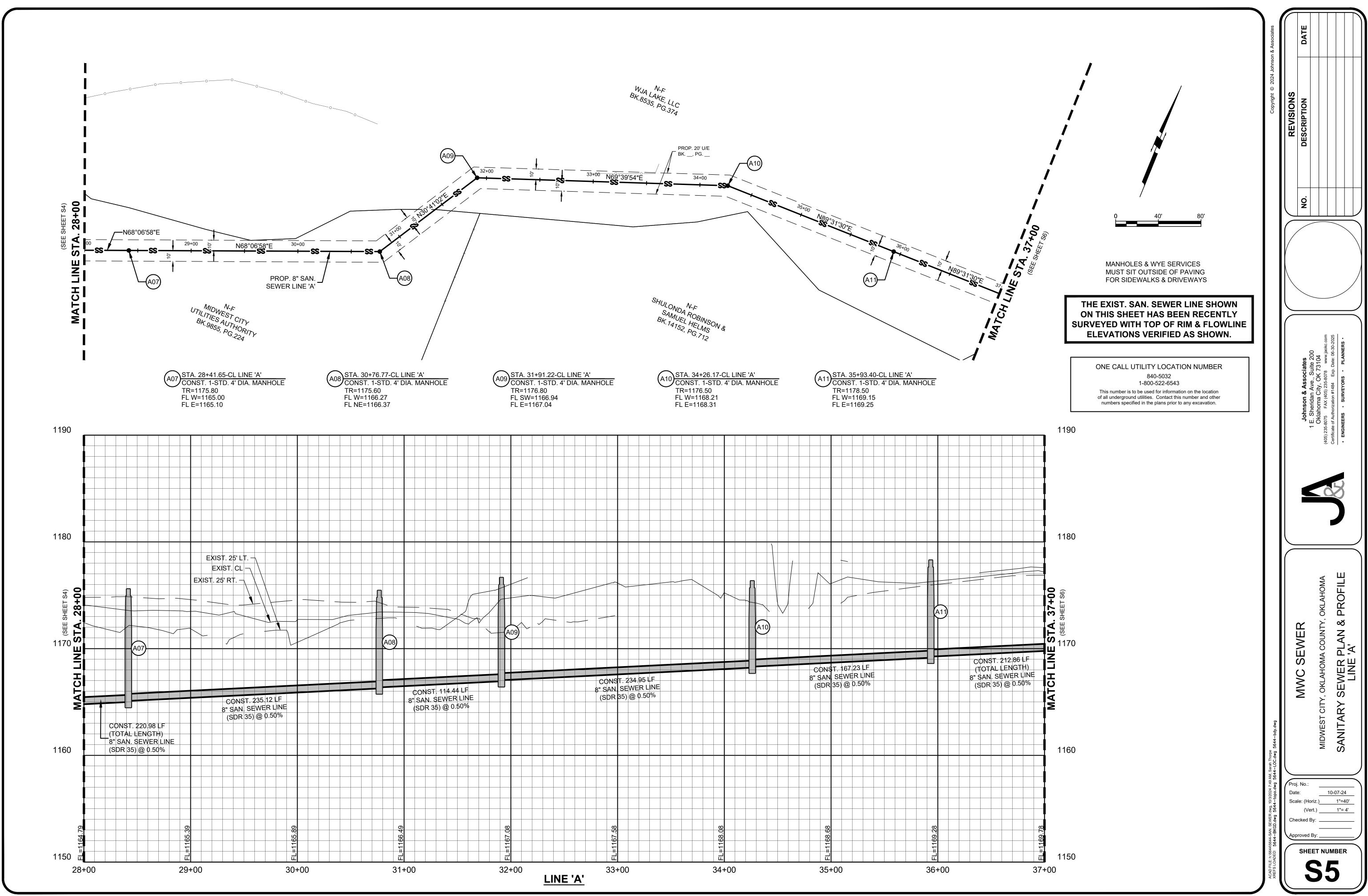
STRUCTURE TABLE				
MANHOLE NAME	NORTHING	EAS		
(EX1)	N=177746.2112	E=214		
A01	N=178016.2057	E=214		
A02	N=178249.3655	E=214		
A03	N=178447.8532	E=214		
A04	N=178695.5783	E=214		
A05	N=178854.3509	E=214		
A06	N=179047.0831	E=214		
A07	N=179129.4482	E=214		
A08	N=179217.0854	E=214		
A09	N=179315.5052	E=214		
A10	N=179397.1538	E=215		
A11	N=179398.5401	E=215		
A12	N=179400.3046	E=215		
A13	N=179641.4324	E=215		
A14	N=179641.7391	E=215		



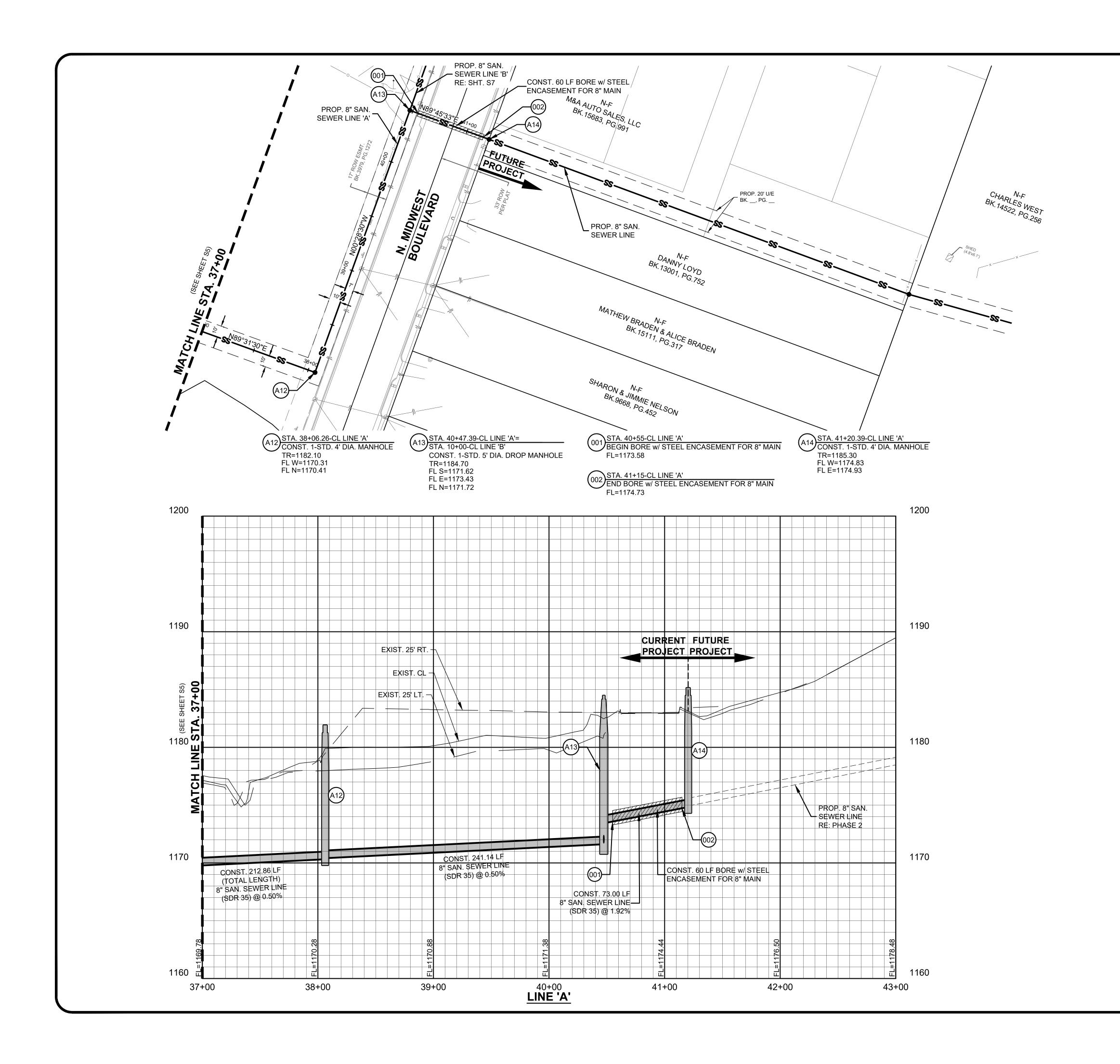
MWC SEWER

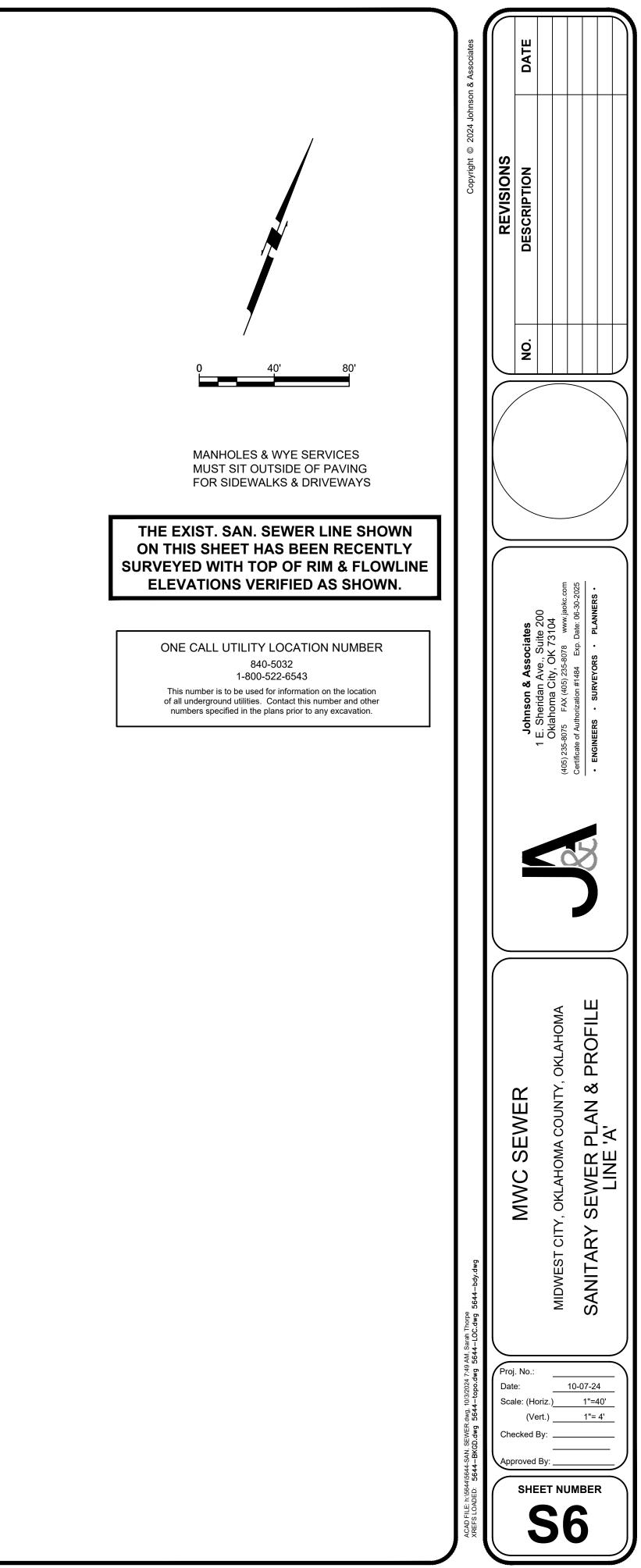


MWC SEWER

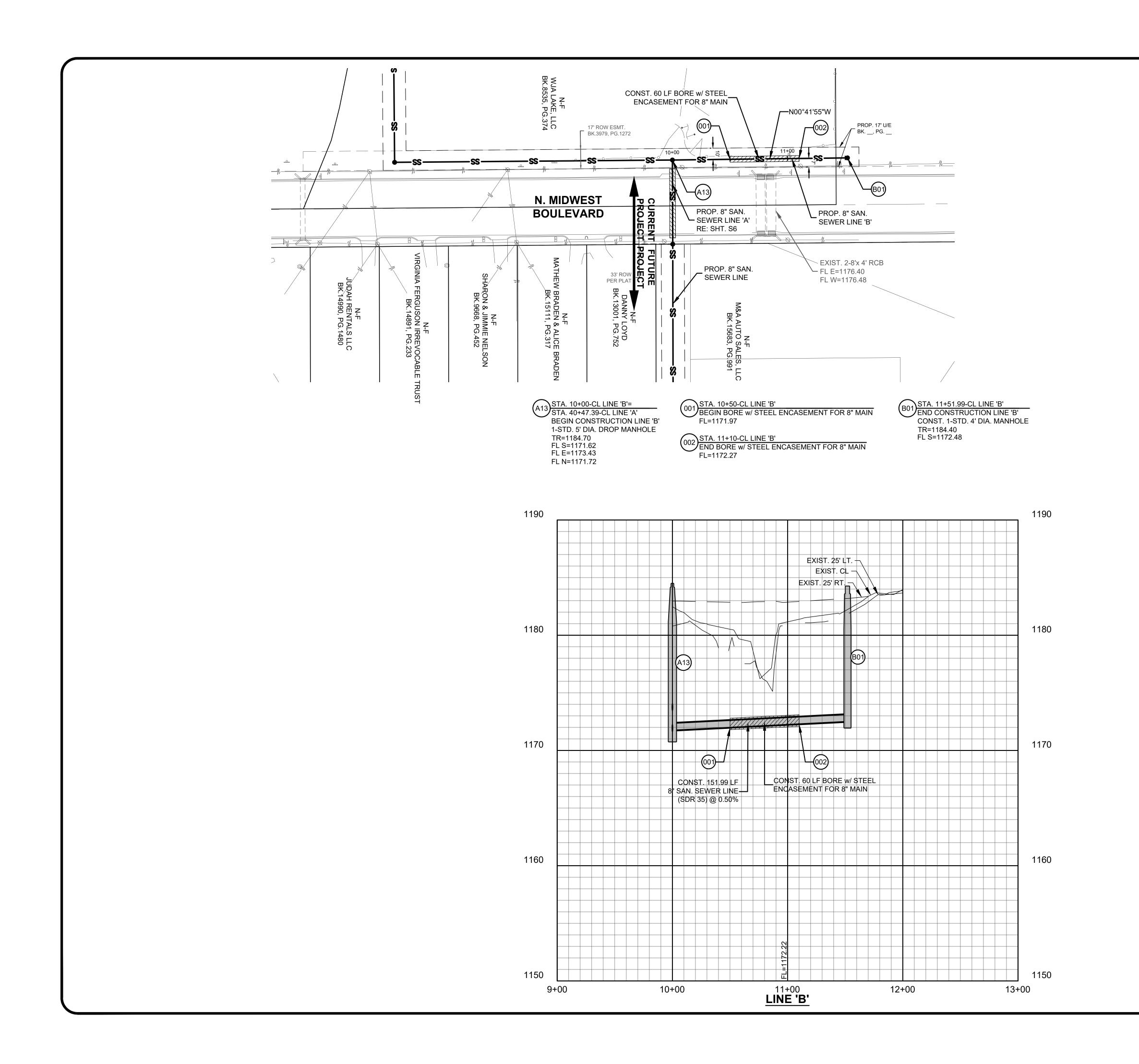


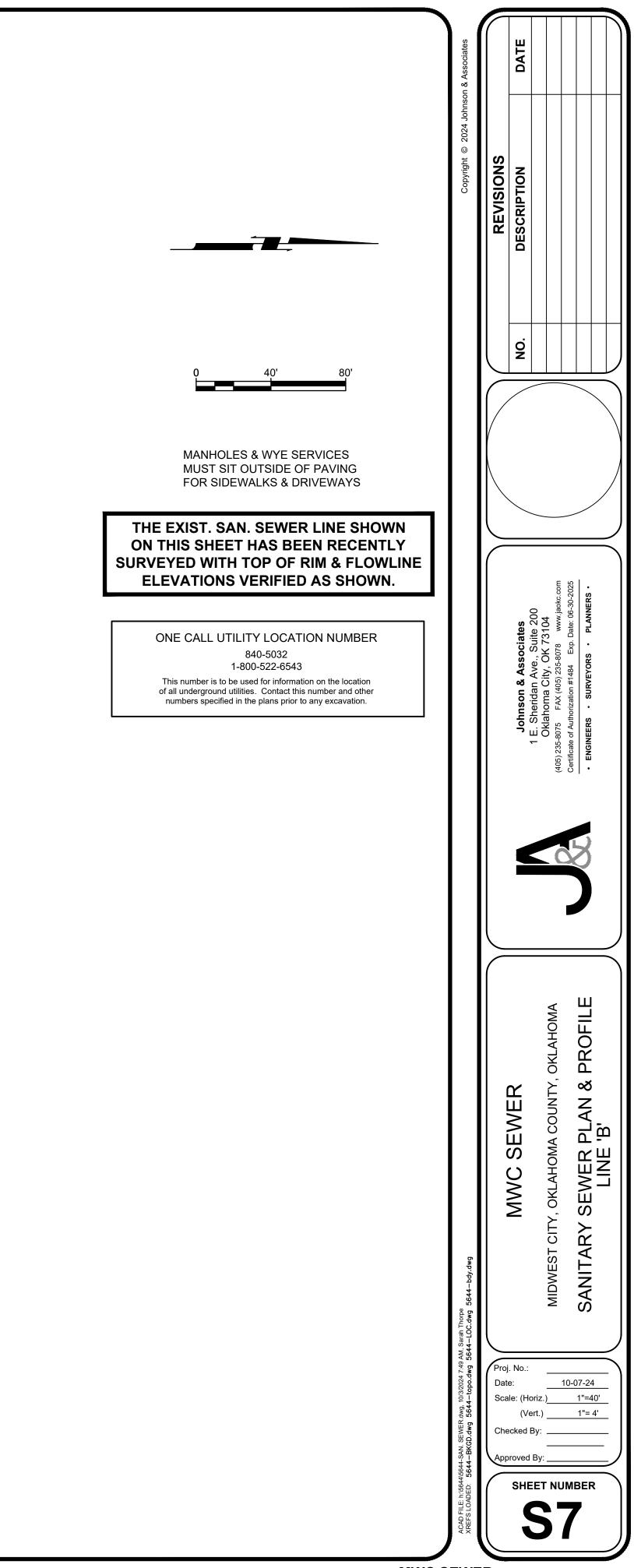
MWC SEWER





MWC SEWER





MWC SEWER

G1.	GENERAL CONSTRUCTION NOTES The Contractor is responsible for the location of all utilities and must have all utilities located prior to commencing any excavation. The Contractor shall verify the invert and flowline elevations of all water lines, sanitary sewers, storm drains, drainage structures, and surface drainage courses prior to laying any new pipe. The Contractor must call OKIE at (405) 840-5032 to have all public utilities (water and sanitary sewer lines) and franchised utilities (electric
	lines, telephone cables, fiber optic lines, cable television, gas lines, and oil pipelines) located at least two (2) days prior to starting construction.
G2.	The Contractor is responsible for the protection of all utility lines and structures, whether shown or not, both public and private. Any damage to the utility line or structure, because of the Contractor's actions, shall be repaired solely at the Contractor's expense to a condition as good or better than that prior to the damage.
G3.	The Contractor must call 9-1-1 IMMEDIATELY if a natural gas pipeline is cut, damaged or otherwise disturbed. The Midwest City Fire Department and Oklahoma Natural Gas Company must inspect the pipe before work can resume at that location.
G4.	The Contractor must notify the following persons at least forty-eight (48) hours in advance of placing or removing any barricades or otherwise modifying existing traffic control devices or placing any temporary traffic control device:
	Engineer (405) 739-1215 Construction inspector (405) 739-1267
G5.	The Contractor must notify all affected city utility customers at least two (2) working days prior to anticipated service interruption during construction. Streets temporarily closed to through traffic during construction shall remain open to local traffic to the maximum extent practical during the work. Detour routes shall be furnished by the Engineer. The Contractor shall furnish and erect all detour signage as directed.
G6.	Where work is carried on, in, or adjacent to any street, alley, or public place, the Contractor shall, at his own expense, furnish and erect such barricades, fences, lights, and/or other protective barriers, and take such other precautionary measures for the protection of persons or property and of the work as are necessary. A sufficient number of barricades shall be erected to keep vehicles from being driven into any work under construction. Failure to comply with this requirement will result in the Engineer shutting down the work until the Contractor has provided the necessary protection. All such barricades and signs and the use thereof shall be in the strict compliance with the Manual on Uniform Traffic Control Devices, Part VI - Temporary Traffic Control
G7.	All construction materials and work shall conform to the applicable City of Midwest City and the Oklahoma Department of Transportation (ODOT) standards and specifications with the additional supplements, as referenced in the project documents.
G8.	All elevations shown are on the Mean Sea Level (M.S.L.) datum. All dimensions to curb are to the back of curb. All dimensions to street "centerlines" are to the centerline of the right-of-way or section line.
G9.	The Contractor shall develop and make all detail surveys needed for construction. The cost of the construction survey and staking shall be included in the price bid for other items of work.
G10.	All fences removed as a result of the Contractor's actions shall be replaced in kind with fencing equal to or better than the original fence. All costs for fence removal and replacement shall be included in the price bid for other items of work.
G11.	All work not classified as a contract pay item shall be considered incidental construction and the cost for such shall be included in the price bid for other items of work.
G12.	All removed salvageable items shall remain the property of the City and shall be stockpiled in an area within the project limits designated by the Engineer for collection by city forces.
G13.	All ditches disturbed during construction shall be reshaped and sloped to drain. Solid slab sod shall be used in all areas where solid has been exposed and positive means of sod stabilization shall be used to prevent displacement of sod by storm waters.
G14.	Erosion control devices in the form of sediment fences are required at driveway culverts, street culverts, drainage structures, storm sewer manholes, and sanitary sewer manholes located in ditches where soil has been disturbed. Those items shall be placed as directed by the Engineer and the cost shall be included in other items.
G15.	Sediment control for utility construction is required. Trenches must be backfilled at the end of each day's work. No more trench shall be opened than can be completed in the same day unless temporary silt fence is placed immediately downstream of any area intended to remain disturbed for more than one day. Excavated materials shall be placed on the high side of the trench.
G16.	City personnel are not permitted to enter any trench or excavation more than five (5) feet deep, for any reason, unless it is sloped or shored in accordance with 29 CFR 1926 OSHA subpart P, "Excavation and Trenches."
G17.	All disturbed, unpaved areas within easements and right-of-way shall be seeded, fertilized, and watered in accordance with ODOT specifications section 232, "Seeding", as required under the "Revegetation" pay item if provided or as noted otherwise on the plans. Seeded areas shall be repaired and maintained until all portions of the project are complete and approved for final acceptance. All other areas disturbed as a result of the Contractor's actions shall be restored in a manner acceptable to the Engineer to a condition as good or better than that prior to the disturbance at no expense to the City.
	The City shall furnish bacteriological water line testing at no expense to the Contractor for municipally funded projects.

SANITARY SEWER LINE MATERIALS AND CONSTRUCTION NOTES

cing any torm call ectric days	SS1.	All sanitary sewer lines shall be leakage tested in accordance with the requirements of Oklahoma Administrative Code (OAC) title 252, chapter 656, Water Pollution Control Construction Standards 252:656-5-5. All flexible sewer pipe shall be deflection tested after the final backfill has been in place for at least 30 days. Deflection tests shall be in accordance with 252:656-5-5(a). The mandrel used shall be furnished by the Midwest City Engineering Division. Leakage test shall be in accordance with 252:656-5-(b).	W1.	Water line sha water line fittin Cement morta shall be in acc otherwise. All shall be C-900
ublic and	SS2.	Manhole steps are not required and shall not be installed. Ladders in lieu of manhole steps are not required.	W2.	All water line
ly at the	SS3.	Watertight frames and covers shall be provided on all manholes. All interior manhole surfaces shall be protected against corrosion using a coal tar epoxy lining or an approved equal.	VVZ.	accomplished "restrained ler restrained by
d. The esume at	SS4.	Manholes noted for demolition shall be removed in their entirety. All sewers entering and leaving demolished manholes noted to be abandoned, shall be removed to the nearest pipe joint outside the manhole or to a point 10 feet from the manhole, whichever is less, and permanently plugged with concrete. All sewer pipe		manufacturers or an approve
ving any œ:		plugs must be watertight. Frames and covers from demolished manholes shall remain the property of the city.	W3.	Granular back existing paver
	SS5.	Granular backfill shall be placed in all trenches up to ground level where sewer lines cross below proposed or existing pavements. Pavement cuts shall be restored in accordance with the city's standard details.	W4.	Fire hydrants barrel type ha Kennedy "Gua
service open to r. The	SS6.	All new sewerline shall have be installed with a continuous tracer wire. Wire shall be a minimum of 12 gauge solid copper with thermoplastic insulation recommended for direct burial. Wire connectors shall be 3M DBR or approved equal, and be watertight. Access points for wire shall be located at all valve boxes, terminal ends, and every 500 ft of continuous runs. Access points shall consist of a box securely fastened to valves containing a loop of wire. Tracer wire shall be laid flat and securely affixed to pipe at 10 ft intervals.	W5.	"Medallion", E (2) coats of Re installed with t All water lines
expense, tionary	SS7.	Contractor is required to test continuity of tracer wire in presence of inspector. Where Manhole is in pavement, it shall be constructed with a concrete apron. Also required will be an in-ground test station. All tracer wire shall be routed into test station which will be traffic rated. Lid shall be		Oklahoma Ad 252:625-17-4 cleaned, or re Operation.
omply		ductile iron with a encapsulated magnet and be green in color. A standard valve box will not be acceptable.	W6.	All water line i
the		PAVING CONSTRUCTION NOTES		spacers. Cas
epartment project	P1.	All construction and materials shall be in accordance with the "Standard Specifications for Construction of Public improvements" Midwest City, Oklahoma and shall be under the supervision of the development services department.		SI or an appro Spacers shall exceeding 12' casing ends w
ırb. All	P2.	Any construction items that are not listed in the summary of quantities shall be considered incidental construction items. The cost of incidental construction items shall be included in the cost of other bid items.	W7.	pipe. All pipe All air relief va
on survey	P3.	Paving subgrade shall be compacted to a density of at least 95% of the minimum dry density obtained by the standard compaction test (ASTM D-698). Test reports shall be submitted to the Midwest City Engineer's office.	W8.	Meter boxes s part numbers
etter than	P4.	Refer to the standard typical sections for concrete paving design standards sheet for residential collector street paving.	W9.	The meter box Service lines
ns of	P5.	The Contractor shall be responsible for contacting and coordinating with all public or private utility companies in the vicinity of construction.		lines are not p tapered thread grip joint outle
n shall be he	P6.	The Contractor shall be responsible for furnishing and maintaining construction traffic control signs and devices as required by the City of Midwest City and the latest edition of Part VI of the Manual of Uniform Traffic Control Devices (M.U.T.C.D.).		outlet, or an a tube compres shall be Ford number B-242
in all ement of	P7.	The Contractor shall be responsible for the replacement or repair of traffic control devices damaged due to construction. The Contractor shall coordinate all work through the City of Midwest City Engineer. New materials shall be submitted for review and approval prior to use.	W10.	All existing washall be plugg capped in a m
	P8.	Unless otherwise specified, the Contractor shall be responsible for his own construction staking.	W11.	All new wate
iage rbed.	P9.	All pavement removal contiguous to pavement remaining shall be sawed in straight lines to the full depth of the existing pavement. All debris from the removal operations shall be removed from the site at the time of excavation. Stockpiling of debris will not be permitted.		solid copper v approved equ every 500 ft o loop of wire. T
k. No als shall	P10.	In areas of excavation, the subgrade shall be scarified to the depth shown on the detail, and recompacted to a dry density of at least 95% of the maximum dry density obtained by the standard compaction test (ASTM D-698) at a water content within 3% of optimum.		test continuity
n, unless	P11.	Unless otherwise stated in the general conditions, the Contractor shall be responsible for all testing. The results of the test shall be forwarded to the engineer for his review and approval. The soils laboratory shall determine the suitability of existing on site material prior to beginning any fill operations.		

DUCTILE IRON PIPE RESTRAIN LENGTH (FT.) t prior to the HORIZONTAL BEND VERTICAL BEND Reduce PIPE Tee Plug 11.25° 45° 22.5° SIZE 11.25° 22.5° 45° ded projects. 90° X8″ X12″ X6″ ▼ ▼ ▼ 20 20 20 20 20 20 20 20 20 20 20 20 40 40 6″ N 20 20 20 20 20 20 20 20 20 20 20 40 20 Ν 40 8′′ 20 20 20 20 20 20 20 20 40 40 40 20 20 40 12″ 20 20 20 40 20 20 20 20 40 20 40 60 60 60 18″ 40 20 20 20 60 20 20 20 20 60 20 60 80 80 80 60 24″

P12. Sod shall be placed 18" behind the curb for erosion protection.

GENERAL CONSTRUCTION NOTES MIDWEST CITY

WATER LINE MATERIALS AND CONSTRUCTION NOTES

all be cement mortar lined ductile iron pipe manufactured in accordance with AWWA C151. All ings shall be cement mortar lined ductile iron manufactured in accordance with AWWA C110. ar lining for pipe and mittings shall be in accordance with AWWA C104. Joints for pipe and fittings cordance with AWWA C111. All 6" diameter water lines shall be thickness class 51 unless noted and water lines larger than 6" shall be thickness class 50 unless noted otherwise. All PVC water line 00. All PVC water line shall be thickness DR-14.

fittings and valves shall be physically restrained by means of restrained joint fittings. This will be d by use of "megalug" joint restraint products or approved equal. Pipe joints that lie within the ength", as indicated in the "ductile iron pipe restrained length" table of the specifications will be "megalug" products, or an approved equal, if mechanical joint pipe is available. The use of pipe rs' "restrained joint" gaskets for use in push-on ductile iron pipe, such as american fast-grip gaskets, ed equal, is also acceptable.

kfill shall be placed in all trenches up to ground level where water lines cross below proposed or ments. Pavement cuts shall be restored in accordance with Midwest City's standard details.

shall meet or exceed all applicable requirements of ANSI/AWWA C502. Hydrants shall be the dry aving one (1) pumper nozzle and two (2) hose nozzles. Fire hydrants shall be Mueller "Centurion", ardian", U.S. Pipe and Foundry "Metropolitan", American Cast Iron Pipe "American Darling", Clow EJ "Water Master", or an approved equal. All hydrants provided for fire protection shall receive two Red paint. All hydrants installed for flushing dead end lines and noted as such on the plans shall be the steamer nozzle.

s shall be pressure and leakage tested and disinfected in accordance with the requirements of dministrative Code (OAC) tilte 252, chapter 625, Public Water Supply Construction Standards (5) and (6). Pressure and leakage testing shall be in accordance with AWWA C600. All new, epaired water lines shall be disinfected in accordance with OAC 252:630, Public Water Supply

e installed within a casing pipe shall be supported by means of permanently attached skids or casing sing spacers shall be Advanced Products and Systems (APS) Inc., steel band casing spacer model roved equal. Casing spacers shall be at least 11" long and runners shall be at least 1" wide. Il be installed within 1' of all joints on both sides of the joint and at intervals along the pipe barrel not 2' on center. Spacers will be installed in accordance with the manufacturers recommendations. All will be sealed utilizing a modular mechanical seal and all casings will have at least one (1) 2" vent e joints within the casing pipe must be restrained.

alves shall be 2" Combination vaccum/release valves.

shall be constructed of U.V. stabilized high density polyethylene and shall conform to the following or approved equal: For $\frac{5}{8}$ " or 1", DFW 1800.18.3KA; larger than 1" shall be DFW 1730C-18-3DA.

s shall be 1" type polly tubing manufactured in accordance with AWWA C800. Splices in new service permitted. Corporation stops shall be 1" straight body ball type valves with an AWWA standard aded inlet and tube compression type outlet. Corporation stops shall be Ford FB1000-4-NL (with let connection), A.Y. McDonald 747-01T, Mueller 300 part number P-15008 with "CC" inlet and "110" approved equal. Meter valves shall be 1" - 90° angle ball type valves having padlock wings with a ssion type inlet and coupling nut outlet for connection to $\frac{5}{8}$ " X 1" or 1" water meters. Meter valves ABA43-444W-NL (with grip joint outlet connection) A.Y. McDonald 746-02T, Mueller 300 part H258 with "110" inlet, or an approved equal.

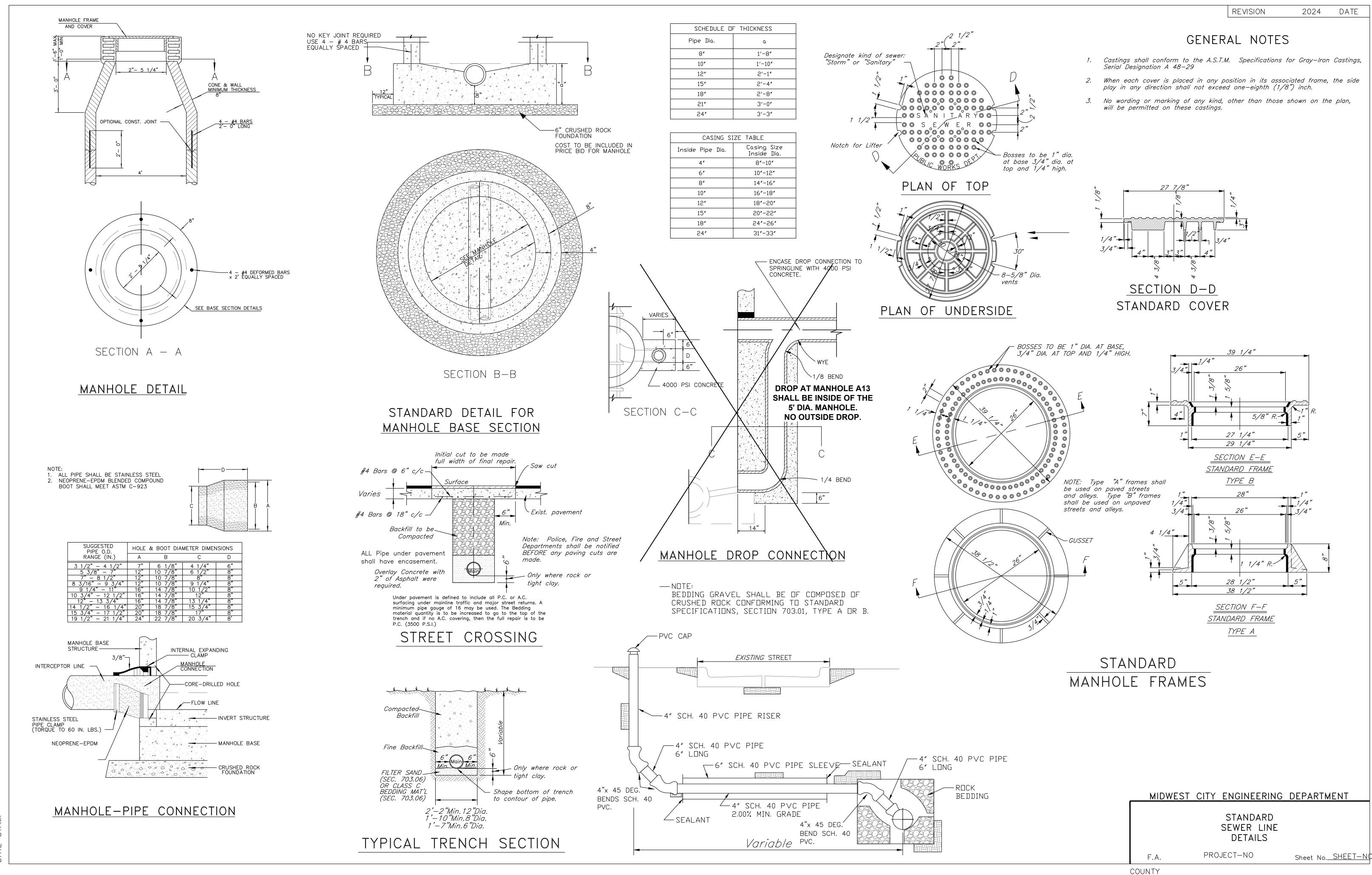
ater lines having a diameter larger than 2" shall be disconnected from the distribution system and ged using megalugs. Disconnected water lines 2" in diameter and smaller shall be permanently nanner acceptable to the Engineer.

erline shall have be installed with a continuous tracer wire. Wire shall be a minimum of 12 gauge with thermoplastic insulation recommended for direct burial. Wire connectors shall be 3M DBR or ual, and be watertight. Access points for wire shall be located at all valve boxes, terminal ends, and of continuous runs. Access points shall consist of a box securely fastened to valves containing a Tracer wire shall be laid flat and securely affixed to pipe at 10 ft intervals. Contractor is required to y of tracer wire in presence of inspector.

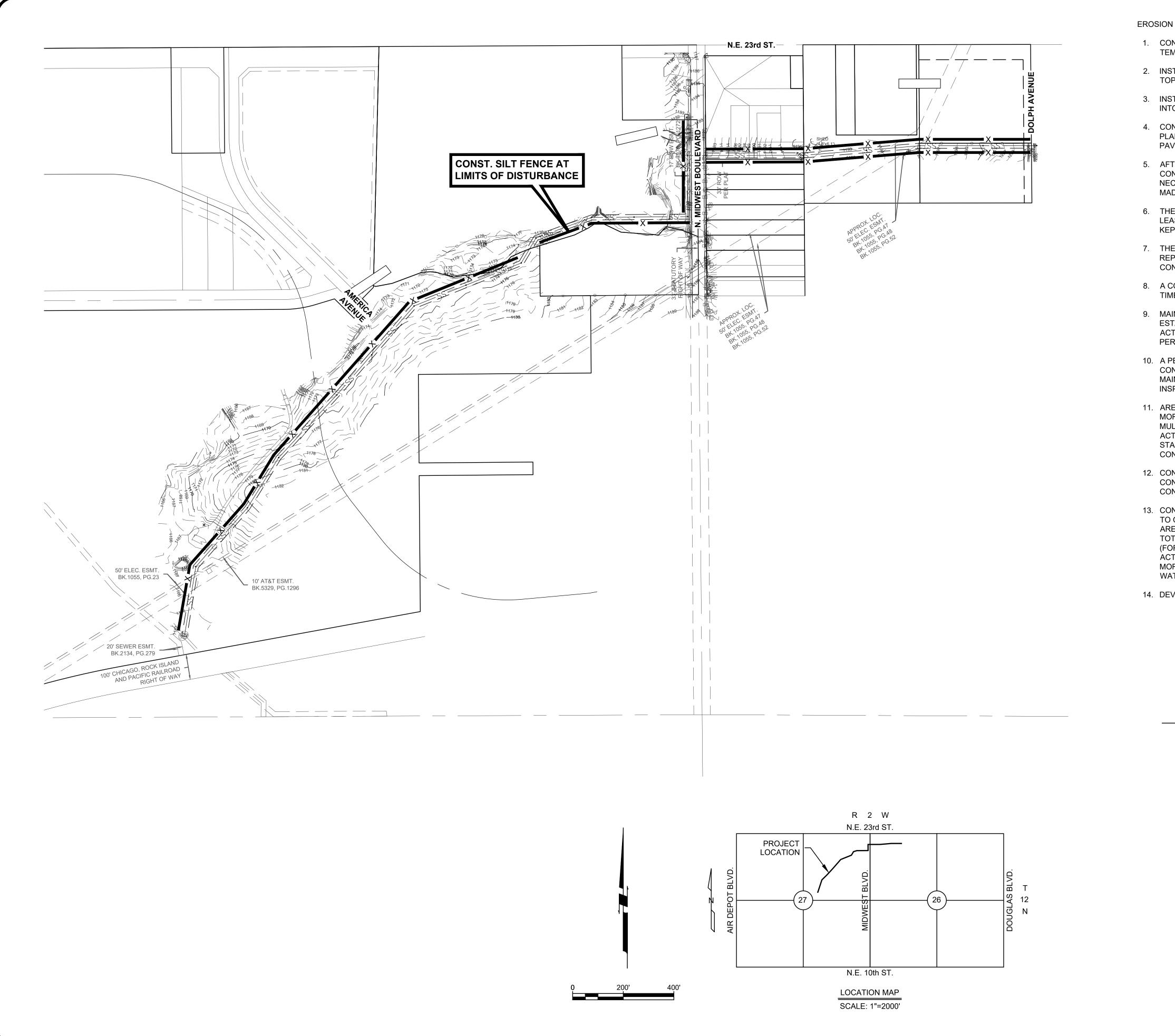
er	^	
"	X16″	X24″
	60	80
	60	80
	40	60
	N	40
	40	Ν

CASING SIZE TABLE		
NOMINAL INSIDE PIPE DIA.	CASING SIZE INSIDE DIA,	
4	8 - 10	
6	10 - 12	
8	14 - 16	
10	16 - 18	
12	18 - 20	
15	20 - 22	
18	24 - 26	
24	31 - 33	

ENGINEERING AND CONSTRUCTION Services department



S9



EROSION CONTROL - GENERAL NOTES

1. CONTRACTOR TO PROVIDE A TEMPORARY CULVERT UNDER ALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES AS NECESSARY.

2. INSTALL PERIMETER EROSION CONTROL DEVICES PRIOR TO REMOVING TOPSOIL OR BEGINNING GRADING ACTIVITIES.

3. INSTALL STABILIZED CONSTRUCTION ENTRANCE IN AN AREA DRAINING INTO THE POLLUTION CONTROL SYSTEM.

4. CONSTRUCT ROCK BAG DITCH CHECKS AS SHOWN ON THE APPROVED PLANS AND AS NECESSARY TO PREVENT EROSION DAMAGE PRIOR TO PAVING.

5. AFTER ALL PRECIPITATION OF 0.5 INCHES OR GREATER, EROSION CONTROL FACILITIES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY. COMPLETED INSPECTION FORMS SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE INSPECTOR UPON REQUEST.

6. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS. COMPLETED INSPECTION FORMS SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE INSPECTOR UPON REQUEST.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL EROSION CONTROL DEVICES DAMAGED DUE TO CONSTRUCTION.

8. A COPY OF THE EROSION CONTROL SITE PLAN MUST BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE INSPECTOR UPON REQUEST.

9. MAINTAIN ALL FACILITIES UNTIL ALL PAVEMENT AND/OR GROUND COVER IS ESTABLISHED. ANY DISTURBED AREA WHICH WILL NOT SEE CONSTRUCTION ACTIVITY FOR 14 DAYS OR MORE SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 14 DAYS OF THE LAST DISTURBANCE.

10. A PERSON IN RESPONSIBLE CHARGE SHALL BE AVAILABLE DURING CONSTRUCTION HOURS TO SUPERVISE IMPLEMENTATION AND MAINTENANCE OF THE POLLUTION PREVENTION PLAN AND TO ASSIST WITH INSPECTIONS BY ANY REGULATORY AGENCY.

11. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT, SEED, SOD, MULCH OR OTHER MANNER CONSISTENT WITH THE APPROVED PLANS.

12. CONTRACTOR IS TO INSTALL ALL EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION. (COST TO BE INCLUDED IN BID ITEM FOR EROSION CONTROL.)

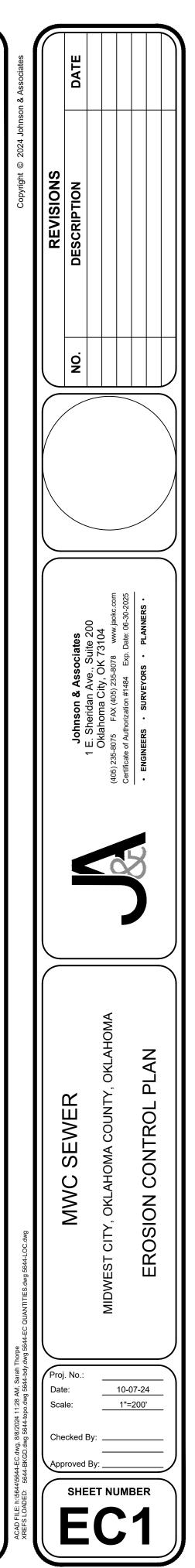
13. CONSTRUCTION ACTIVITIES THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE (1) ACRE, OR LESS THAN ONE (1) ACRE IF THEY ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT TOTALS AT LEAST ONE (1) ACRE MUST ALSO OBTAIN A PERMIT FROM ODEQ (FORM 605-002a) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. THIS MEANS THAT LAND DISTURBING OF ONE (1) ACRE OR MORE MUST PERMIT WITH ODEQ AND THE CITY OF OKLAHOMA CITY, STORM WATER QUALITY.

14. DEVELOPER TO SOD ALL DISTURBED AREAS AS PART OF LANDSCAPING.

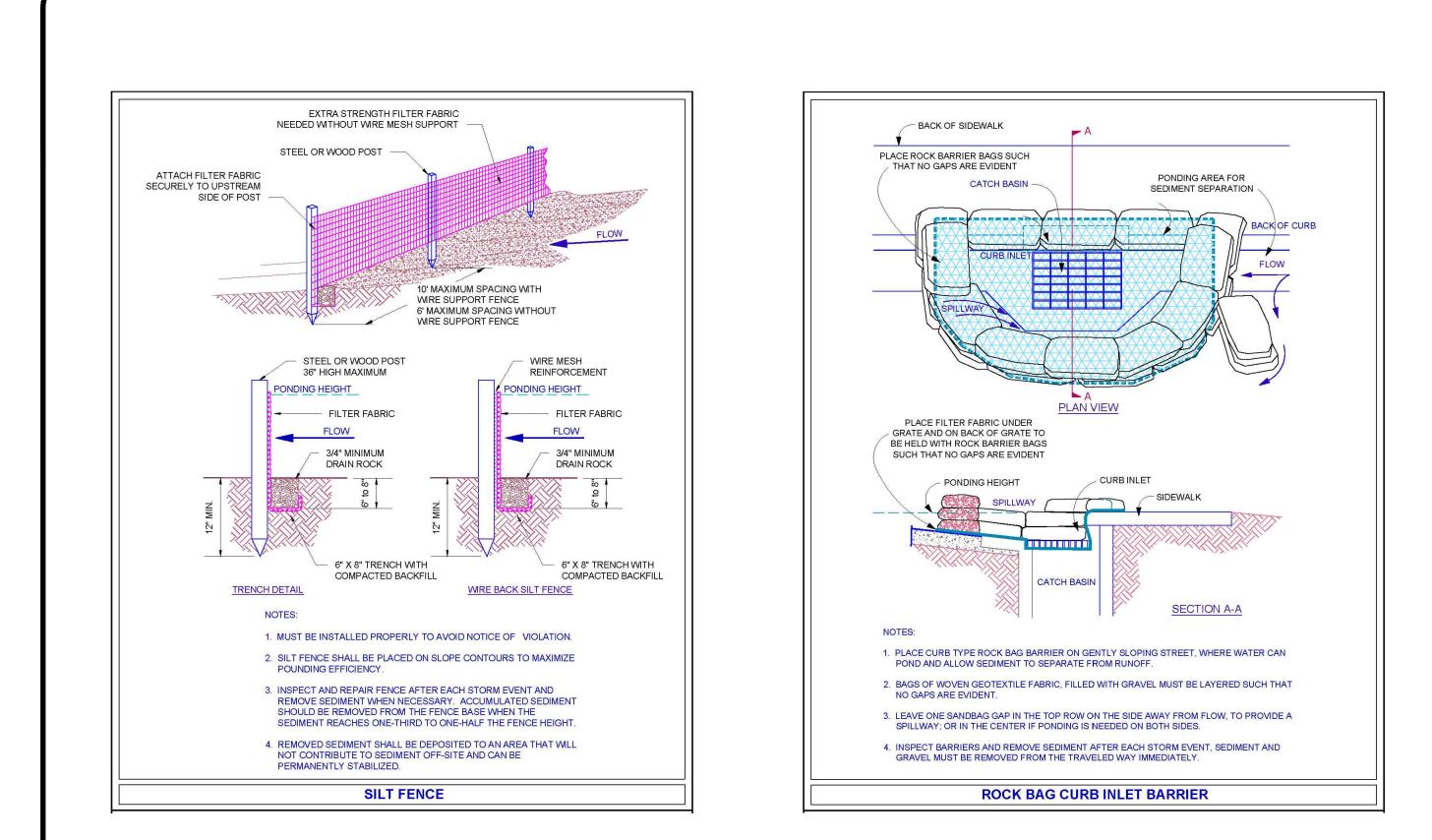
	EROSION CONTROL QUA	NTITIES	6
NO	ITEM	UNIT	QTY
1.	<u>GRADING CONTRACTOR</u> SILT FENCE	LF	5620
1. 2.	PAVING CONTRACTOR SEED ALL DISTURBED AREAS CONCRETE WASHOUT	LS EA	1 1

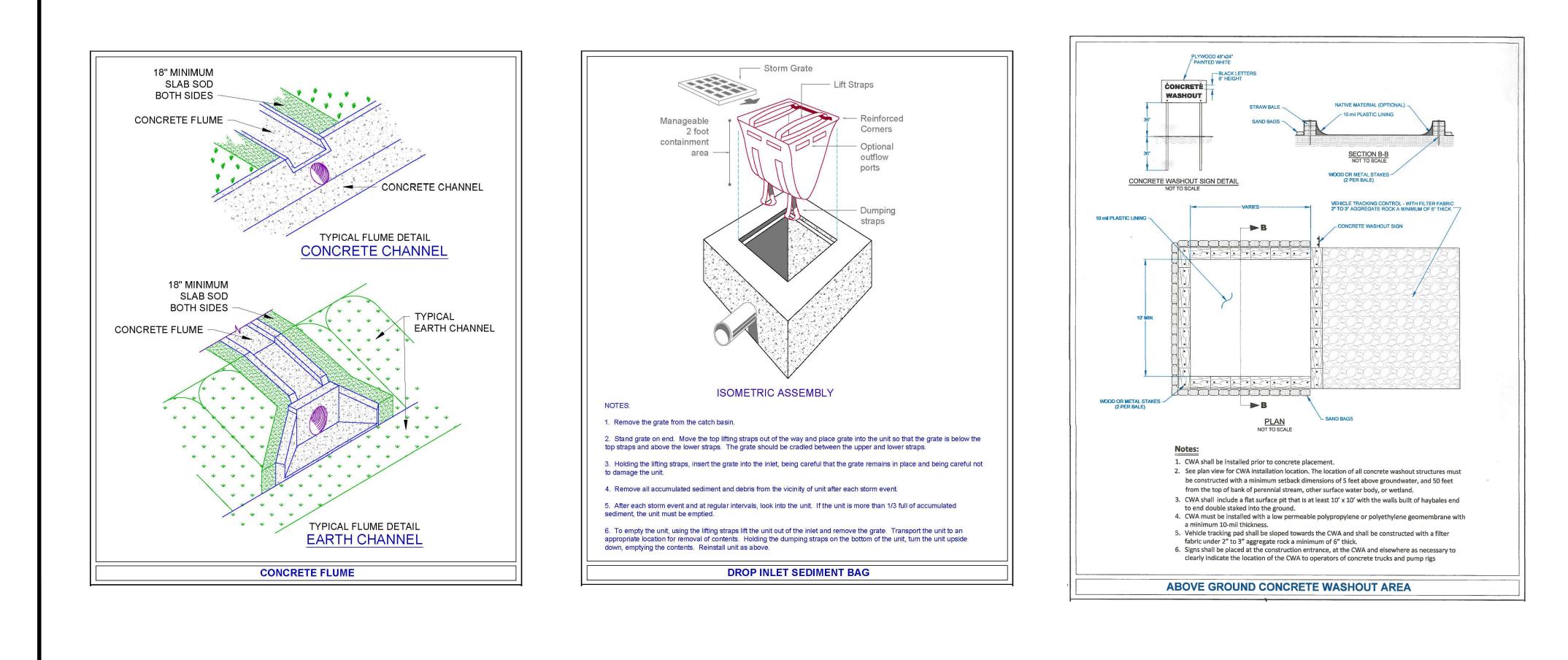
ONE CALL UTILITY LOCATION NUMBER
840-5032 1-800-522-6543
This number is to be used for information on the location of all underground utilities. Contact this number and other numbers specified in the plans prior to any excavation.

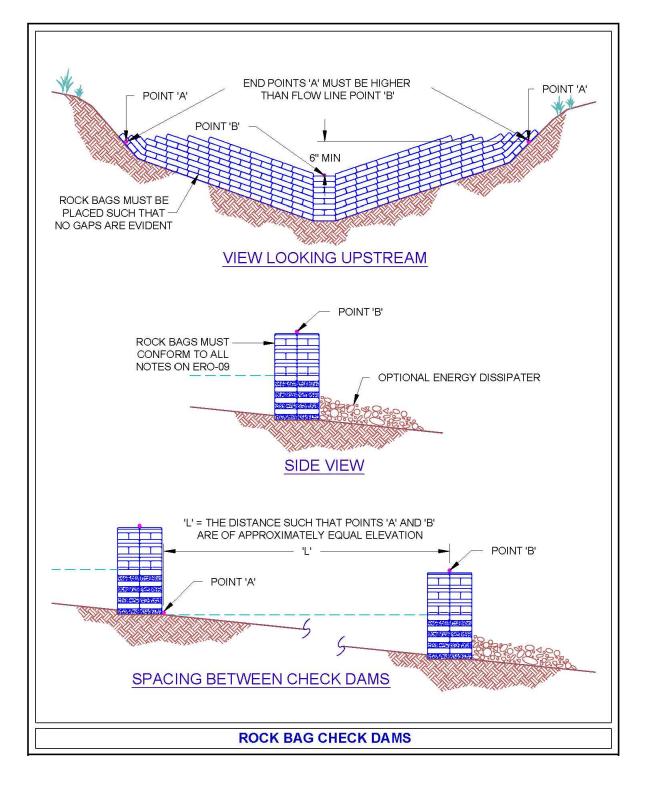
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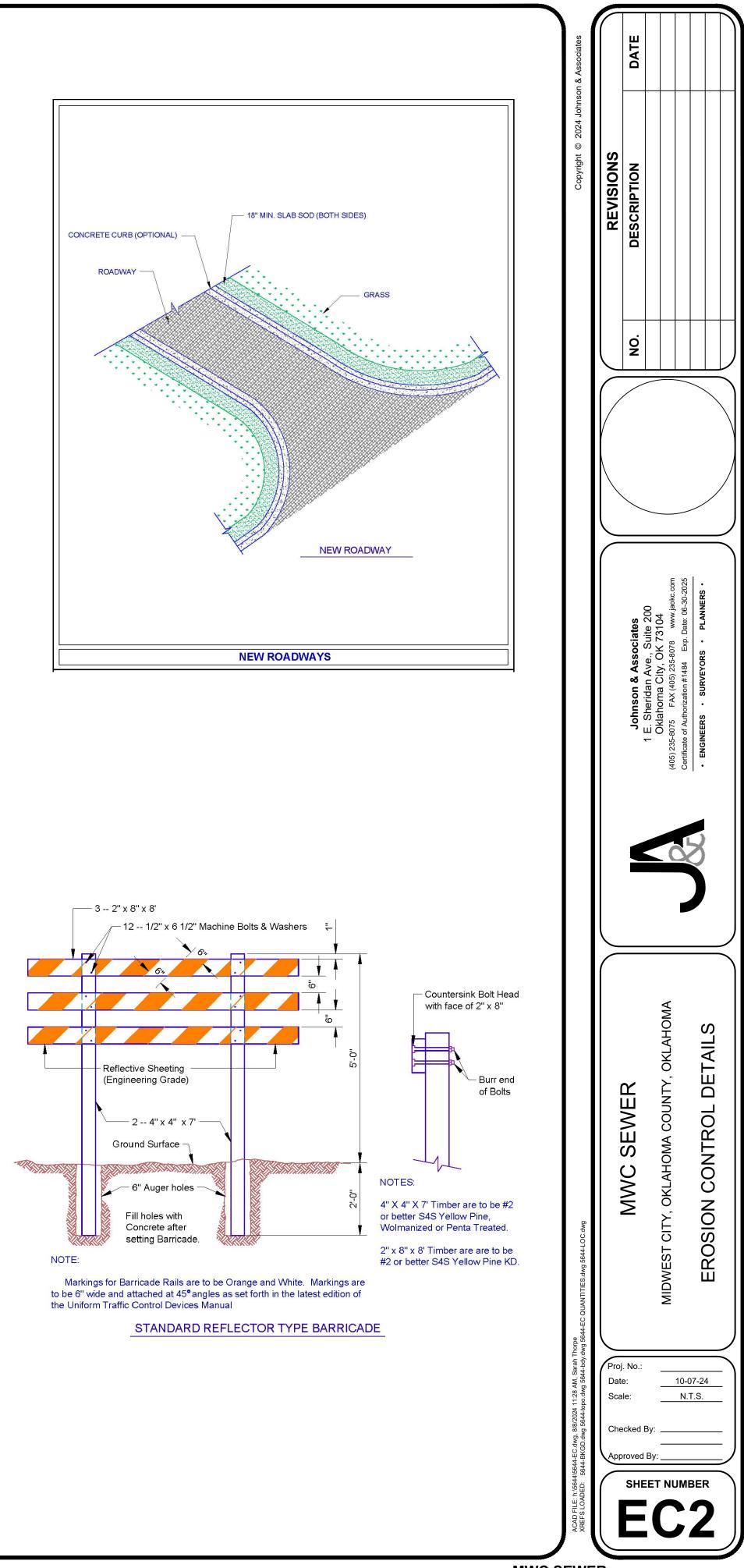


MWC SEWER









MWC SEWER