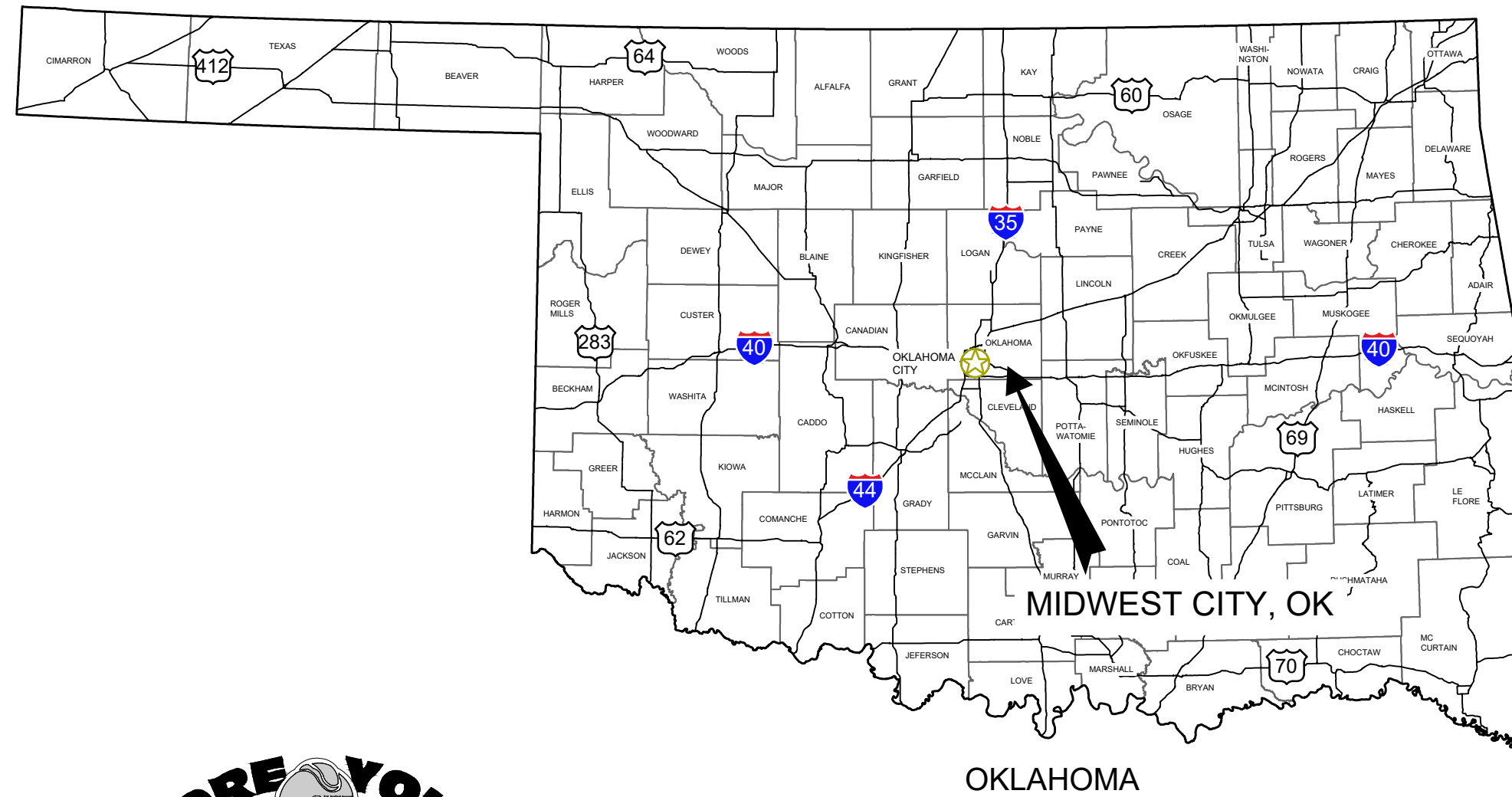


MIDWEST CITY MUNICIPAL AUTHORITY PLANS OF PROPOSED SERVICE LINE CONNECTIONS

PWSID: OK1020806
DWSRF PROJECT P40-1020806-01
MIDWEST CITY, OKLAHOMA



LOCATION MAP
NO SCALE



VICINITY MAP
NO SCALE



GARVER PROJECT NO. 17078430
NOVEMBER 2024



750 SW 24TH ST.
STE. 200
MOORE, OK 73160



CAUTION: UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. OKLAHOMA STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE OKLAHOMA ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF EMERGENCY). THE CALL OKIE SYSTEM PHONE NUMBER IS 1-800-522-6543. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE CALL OKIE SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE CALL OKIE SYSTEM. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE, AND ARE THE LOCATIONS AT THE TIME OF DESIGN. SOME UTILITIES MAY HAVE BEEN RELOCATED SINCE THE TIME OF DESIGN AND THE CONTRACTOR'S NOTICE TO PROCEED.

ALL CONSTRUCTION SHALL MEET OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS

MAYOR
MATT DUKES

PUBLIC UTILITIES DIRECTOR
PAUL STREETS

THE CITY COUNCIL OF MIDWEST CITY

WARD 1 - SUSAN EADS
WARD 2 - PAT BYRNE
WARD 3 - RITA MAXWELL

WARD 4 - MARC THOMPSON
WARD 5 - SARA BANA
WARD 6 - RICK FAVORS

MAYOR _____ DATE _____

CITY MANAGER _____ DATE _____

CITY ENGINEER _____ DATE _____

PROJECT ENGINEER _____ DATE _____

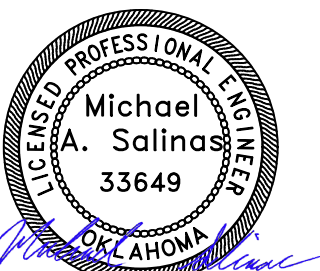


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750 SW 24TH ST.
STE. 200
MOORE, OK 73160

OK COA #4193
EXPIRES 06/30/2026

11/21/2024



REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST
MIDWEST CITY, OKLAHOMA

MIDWEST CITY
Where the Spirit Flies High

MIDWEST CITY MUNICIPAL
AUTHORITY PLANS OF PROPOSED
SERVICE LINE CONNECTIONS

COVER SHEET

JOB NO.: 17078430
DATE: NOV 2024
DESIGNED BY: MAS
DRAWN BY: EMG
CHECKED BY: MTN

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

01-G001

SHEET NUMBER **01**

MIDWEST CITY - ENGINEERING DIVISION

File: I:\2017\17078430 - mvc.msa\Drawings\MWC-MSA_01-G002.dwg Last Save: 8/5/2024 2:22 PM Last saved by: OGPerez
 Last plotted by: Perez, Osiel G. Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 8/8/2024 1:52 PM Plotter used: None

SHEET INDEX		
SHEET NO.	DWG NO.	SHEET TITLE
01-GENERAL		
01	01-G001	COVER SHEET
02	01-G002	SHEET INDEX AND BID QUANTITIES
03	01-G003	GENERAL NOTES
04	01-G004	LEGEND AND ABBREVIATIONS
05-CIVIL		
05	05-C101	OVERALL SERVICE AREA LAYOUT
06	05-C301	PLAN LAYOUTS 1
07	05-C302	PLAN LAYOUTS 2
08	05-C303	PLAN LAYOUTS 3
99-DETAILS		
09	99-C501	SERVICE CONNECTION DETAIL
10	99-C502	BEDDING BACKFILL

Bid Quantities			
Item Number	Description	Unit	Quantity
1	MOBILIZATION	LS	1
2	WATER METER PURCHASE	LS	32
3	ROAD BORES - 2-LANE ROAD	EA	6
4	ROAD BORES - 4-LANE ROAD	EA	2
5	METER RECONNECTION	EA	32
6	EXISTING WATERLINE TO BE CAPPED AND PLUGGED	LS	1
7	DISCONNECTION OF EXISTING WELL	LS	1

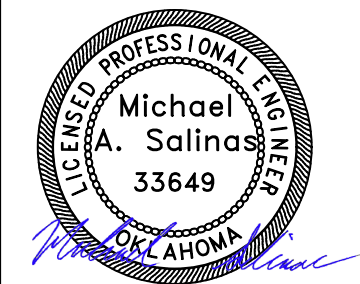


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750 SW 24TH ST.
 STE. 200
 MOORE, OK 73160

OK COA #4193
 EXPIRES 06/30/2026

11/21/2024



REV	DATE	DESCRIPTION	BY



SHEET INDEX AND
 BID QUANTITIES

JOB NO.: 17078430
 DATE: NOV 2024
 DESIGNED BY: MAS
 DRAWN BY: EMG
 CHECKED BY: MTN

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DRAWING NUMBER
01-G002
 SHEET NUMBER **02**

GENERAL CONSTRUCTION NOTES

- PAY ITEMS LISTED IN THE BID SCHEDULE ARE THE ONLY PAY ITEMS FOR THE PROJECT. ANY OTHER ITEMS NECESSARY FOR A COMPLETE PROJECT, BUT NOT SHOWN IN THE BID SCHEDULE SHALL BE CONSIDERED AN INCIDENTAL ITEM AND ITS COST TO BE INCLUDED IN OTHER ITEMS.
- THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO BIDDING PROJECT. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE, EXCEPT AS NOTED.
- ANY CONTRACTOR-CAUSED DAMAGE TO UTILITY AND/OR SERVICE LINES, SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE REPAIRED OR REPLACED AT NO COST TO MIDWEST CITY MUNICIPAL AUTHORITY AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR, SUBCONTRACTOR OR LICENSED PLUMBER AS APPROVED BY THE PROJECT MANAGER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF THE INVOLVED UTILITIES IN THE PROJECT AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVIDE ADEQUATE CONSTRUCTION SIGNING, BARRICADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS FOR THE PROJECT AREA, DURING THE CONSTRUCTION PERIOD. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
- THE CONTRACTOR SHALL NOTIFY THE M.W.C. CHIEF, CITY ENGINEER, PROJECT MANAGER, MUNICIPAL AUTHORITY DIRECTOR AND ALL PRIVATELY OWNED AMBULANCE COMPANIES 24 HOURS IN ADVANCE OF WHEN TRAFFIC IS TO BE RESTRICTED ON ANY STREET. IF AN EMERGENCY ARISES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ALL PARTIES PREVIOUSLY NOTED.
- THE CONTRACTOR SHALL PROVIDE REASONABLE ACCESS TO RESIDENTIAL, COMMERCIAL AND PUBLIC PROPERTIES IN THE PROJECT AREA. DURING CONSTRUCTION, TRAFFIC MAY BE RESTRICTED TO LOCAL TRAFFIC ONLY WITH APPROVAL OF THE PROJECT MANAGER.
- THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL CITY-OWNED SIGNS WHOSE REMOVAL IS REQUIRED BY HIS CONSTRUCTION WORK IN THE PROJECT AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE CITY TO INSPECT ALL SIGNS SCHEDULED FOR REMOVAL PRIOR TO THEIR REMOVAL. ONCE SAID SIGNS HAVE BEEN REMOVED, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SIGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE CITY. MATERIALS SHALL BE APPROVED BY THE PROJECT MANAGER.
- ALL POST-MOUNTED SIGNS SHALL BE RESET IN CONCRETE AND AT THE PROPER HEIGHT AND LOCATION (CITY TO PROVIDE LOCATION).
- ALL SIDEWALK AND PAVED DRIVEWAY REMOVALS SHALL BE BOUNDED BY JOINTS OR SAWCUTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL DRIVEWAY CLOSINGS WITH THE RESPECTIVE PROPERTY OWNERS AND TENANTS, IF PROPERTY IS RENTED.
- EXISTING CONCRETE DRIVES WILL BE REPLACED WITH 6" MIN. NON-REINFORCED CLASS 3500 PSI H.E.S. CONCRETE AS SPECIFIED ON THE PLAN DOCUMENTS.
- PROPERTY OWNERS WILL BE NOTIFIED BY THE CITY, PRIOR TO CONSTRUCTION, THAT IT WILL BE THE PROPERTY OWNER'S RESPONSIBILITY TO REMOVE OR RELOCATE FENCES, TREES, SHRUBS OR OTHER PROPERTY WHICH THEY INTEND TO KEEP. IF THE ITEMS ARE NOT REMOVED AT THE TIME OF CONSTRUCTION AND ARE IN THE WAY OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE ITEMS AS DIRECTED BY THE CITY ENGINEER. FENCES SHALL BE REINSTALLED AT THE CONTRACTOR UNIT PRICE FOR FENCES AS DIRECTED BY THE PROJECT MANAGER.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF WORK.
- ANY SURPLUS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND DISPOSAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYING AND CONSTRUCTION STAKING FOR THE PROJECT.
- ALL GRADING AND SURFACING SHALL BE IN ACCORDANCE WITH THE PLAN SHEETS AND OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- ALL EXCAVATION WITHIN 2' OF PAVEMENT SHALL BE BACKFILLED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH LIMESTONE SCREENINGS.
- THE CONTRACTOR SHALL ESTABLISH A HEALTHY STAND OF BERMUDA GRASS OVER AREAS DISTURBED DURING CONSTRUCTION AND SHALL WATER AND MAINTAIN THE AREAS THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL A HEALTHY STAND OF BERMUDA GRASS IS ESTABLISHED.
- THE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL SALVAGED TOPSOIL TO BE USED LATER AS BACKFILL BEHIND CURBS AND DRIVES. THIS IS NOT A PAY ITEM, BUT COST OF SAME IS TO BE INCLUDED IN OTHER ITEMS OF WORK.
- THE CONTRACTOR SHALL LEVEL ALL DISTURBED AREAS WITH TOPSOIL AND HAND RAKE TO A UNIFORM APPEARANCE. COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.

- THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE TREES AND SHRUBS. TREES AND SHRUBS SHALL NOT BE REMOVED UNLESS SO DIRECTED BY THE ENGINEER. SHRUBS SO REMOVED SHALL BE PLACED ON THE PROPERTY OWNER'S LAND OR DISPOSED OF OFF-SITE AS DIRECTED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE ANY SHEDS OR OTHER STRUCTURES LOCATED ON EXISTING EASEMENTS. SHEDS SHALL NOT BE MOVED UNLESS AUTHORIZED BY THE ENGINEER. ALL COSTS TO REMOVE/REPLACE SHEDS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
- CAUTION: FOR UNDERGROUND UTILITY LOCATIONS, CONTACT 1-800-522-6543 PRIOR TO EXCAVATION.

GENERAL CONSTRUCTION NOTES FOR WATERLINES

- WATER MAINS SHALL BE CAPPED IF REQUIRED FOR TESTING, PRIOR TO TIE-INS BEING MADE.
- ALL EXCAVATION WITHIN 2' OF PAVEMENT SHALL BE BACKFILLED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH LIMESTONE SCREENINGS.
- FENCES AND MAILBOXES SHALL BE REMOVED AND REINSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- ADDITIONAL DRIVEWAY REPAIR MAY BE ADDED AS DIRECTED BY THE PROJECT ENGINEER. FOR DRIVEWAY REPAIRS, SEE DETAILS.
- SIDEWALK REPAIR SHALL BE PAID UNDER PAY ITEM FOR CONCRETE DRIVE REPAIR.
- CONTRACTOR SHALL BORE UNDER TREES IN - LIEU OF TREE REMOVAL AT LOCATIONS DIRECTED BY THE PROJECT ENGINEER. COST SHALL BE INCLUDED IN THE PRICE BID FOR BORE W/O CASING.
- ALL WATER MAIN VALVES SHALL BE OPERATED ONLY BY MIDWEST CITY MUNICIPAL AUTHORITY PERSONNEL. THE CONTRACTOR SHALL NOTIFY THE MIDWEST CITY MUNICIPAL AUTHORITY/ENGINEERING DEPARTMENT A MINIMUM OF 96 HOURS IN ADVANCE OF REQUIRED VALVE OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE TIE-INS OF NEW WATERLINES TO EXISTING LINES WITH THE MIDWEST CITY MUNICIPAL AUTHORITY/ENGINEERING DIRECTOR AND THE MIDWEST CITY MUNICIPAL AUTHORITY FIRE DEPARTMENT CHIEF.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOOR-TO-DOOR NOTIFICATION OF ALL AFFECTED PERSONS PRIOR TO SHUTTING OFF A WATER MAIN.
- ALL NEW FIRE HYDRANTS SHALL BE COVERED WITH A BURLAP BAG UNTIL SUCH TIME AS THEY ARE OPERATIONAL.
- EXISTING FIRE HYDRANTS AND RELATED VALVES SHALL BE REMOVED AND SALVAGED IN GOOD CONDITION AND DELIVERED TO THE MIDWEST CITY MUNICIPAL AUTHORITY/ENGINEERING MAINTENANCE YARD LOCATED AT 2100 SW 6TH STREET DURING NORMAL WORKING HOURS AS DIRECTED BY THE ENGINEER. COSTS TO BE INCLUDED WITH PRICE BID FOR OTHER ITEMS.
- THE CONTRACTOR SHALL REMOVE VALVE BOXES FROM VALVES TO BE ABANDONED IN AREAS NOT PAVED AND BACKFILL HOLE WITH SUITABLE MATERIAL. IN PAVED AREAS WHERE THE VALVE BOX CANNOT BE EASILY REMOVED, THE CONTRACTOR SHALL REMOVE THE LID AND FILL THE BOX WITH CONCRETE. SALVAGED VALVE BOXES AND LIDS SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY MIDWEST CITY MUNICIPAL AUTHORITY/ENGINEERING YARD.
- ALL METERS TO BE RELOCATED SHALL BE PLACED AS CLOSE TO THE PROPERTY LINE AS PRACTICAL, OR AS DIRECTED BY THE PROJECT ENGINEER. THE QUANTITIES SHOWN IN THE SUMMARY OF BID QUANTITIES FOR METER RELOCATION AND 1" SERVICE LINE ARE FOR BIDDING PURPOSES ONLY. THE ACTUAL QUANTITIES REQUIRED WILL BE DETERMINED DURING CONSTRUCTION.
- ALL LINES AND FITTINGS SHALL BE RESTRAINED AND THRUST BLOCKED.
- ALL BACKFILL FOR WATERLINE TRENCHING SHALL BE WATER JETTED AFTER THE CONNECTION OF ALL SERVICE LINES. COST TO BE INCLUDED IN THE UNIT PRICE FOR PIPE.
- THE CONTRACTOR SHALL PLACE A 4" THICK LAYER OF TOPSOIL ON ALL AREAS TO BE GRASSED. THE PRICE OF SALVAGING, STOCKPILING, IMPORTING, AND PLACING TOPSOIL SHALL BE INCLUDED IN THE UNIT PRICE FOR "GRASSING".
- MINIMUM COVER FOR THE WATERLINE INSTALLATION SHALL BE THIRTY INCHES (30") FROM THE TOP OF GROUND TO THE TOP OF THE PIPE UNLESS SPECIFIED OTHERWISE.
- ALL TAPS SHALL BE ACCOMPLISHED BY THE CONTRACTOR. COST SHALL BE INCLUDED IN THE PRICE BID FOR SERVICE TAPS OR TAPPING SADDLE AND VALVE.

- PVC (AWWA C900 DR18) OR POLYBOND LINED D.I. (CLASS 51) SANITARY SEWER PIPE MAY BE REQUIRED AT LOCATIONS WHERE THE MINIMUM SPACING REQUIREMENT WITH WATER MAINS CANNOT BE ACHIEVED. THE CONTRACTOR SHALL FURNISH AND INSTALL (COMPLETE) THE REQUIRED TYPE AND LENGTH OF PIPE AT LOCATIONS AS DIRECTED BY THE ENGINEER. MATERIALS AND METHODS FOR TRENCHING/BACKFILL SHALL FOLLOW SPECIFICATIONS AS SET IN SECTION 0300 "SEWERLINE CONSTRUCTION". COST SHALL BE INCLUDED IN THE PRICE BID FOR "SANITARY SEWER PIPE (PVC C900 DR18 OR POLYBOND D.I. PIPE CLASS 51). (REFER TO OAC 252.626)
- ALL LINES WHICH ARE TO REMAIN IN SERVICE SHALL BE COMPLETELY DISCONNECTED FROM ABANDONED LINES BY PLUGGING THE LIVE LINE CROSS OR TEE WITH AN M.J. PLUG. LEAD JOINT FITTINGS SHALL BE COMPLETELY REMOVED AND A NEW LINE SEGMENT SLEEVED IN. THE END OF ABANDONED PIPE SHALL BE SEALED WITH NON-SHRINK GROUT. REQUIRED FITTINGS SHALL BE PAID AT THE CONTRACT BID PRICE AND ALL OTHER COSTS SHALL BE CONSIDERED INCIDENTAL.
- HORIZONTAL SEPARATION FROM EXISTING OR PROPOSED SEWER LINES SHALL BE 10 FEET, EDGE TO EDGE, AND 5 FEET FROM OTHER EXISTING OR PROPOSED STORM SEWERS, RAW WATER LINES, NATURAL GAS LINES, AND OTHER BURIED UTILITY LINES. (REFER TO OAC 252.626)
- 2 FOOT VERTICAL SEPARATION, EDGE TO EDGE, BETWEEN WATER LINES AND ANY EXISTING OR PROPOSED STORM SEWERS, RAW WATER LINES, NATURAL GAS LINES AND OTHER BURIED UTILITY LINES SHALL BE MAINTAINED. (REFER TO OAC 252.626)
- WATER LINES CROSSING SEWER LINES SHALL HAVE A MINIMUM VERTICAL DISTANCE OF 24 INCHES BETWEEN THE WATER MAIN AND THE SEWER LINE. PIPING SHALL BE ARRANGED SO THAT JOINTS IN A 20-FOOT LENGTH OF PVC OR 18-FOOT LENGTH OF CAST IRON SEWER PIPE WILL BE EQUIDISTANCE FROM THE WATER MAIN.

ABBREVIATIONS

C	CENTERLINE
CL	CLASS
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
DI	DUCTILE IRON
DIA	DIAMETER
DBL	DOUBLE
DIP	DUCTILE IRON PIPE
DOC.NO.	DOCUMENT NUMBER
E	EASTING
EASE	APPROX. EASEMENT BOUNDARY
EL/ELEV	ELEVATION
EX	EXISTING
FM	FORCE MAIN
FLG	FLANGE
FS	FLOAT SWITCH
HWY	HIGHWAY
INV	INVERT
LF	LINEAR FOOT
MH	MANHOLE
MIN	MINIMUM
N	NORTHING
NE	NORTHEAST
NO	NUMBER
NW	NORTHWEST
OC	ON CENTER
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT-OF-WAY
SHT	SHEET
S	SOUTH
SE	SOUTHEAST
SCH	SCHEDULE
SS	SANITARY SEWER
STA	STATION
STL ST	STAINLESS STEEL
SVC	SERVICE
SW	SOUTHWEST
TBM	TEMPORARY BENCHMARK
TCE	APPROX. TEMP CONSTRUCTION EASEMENT
TYP	TYPICAL
W	WEST
WWF	WELDED WIRE FABRIC

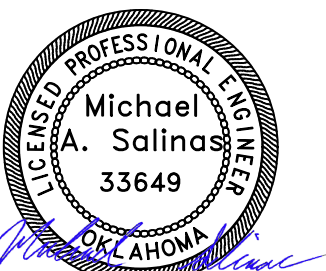


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750 SW 24TH ST.
STE. 200
MOORE, OK 73160

OK COA #4193
EXPIRES 06/30/2026

11/21/2024



REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST
MIDWEST CITY, OKLAHOMA
MIDWEST CITY
Where the spirit lives high
MIDWEST CITY MUNICIPAL
AUTHORITY PLANS OF PROPOSED
SERVICE LINE CONNECTIONS

GENERAL NOTES

JOB NO.: 17078430
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BAR IS ONE INCH ON ORIGINAL DRAWING
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DRAWING NUMBER

01-G003

SHEET NUMBER **03**

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 Last plotted by: Perez, Osiel G. Plot Date: 12/8/2024 1:53 PM Plotter used: None

LINETYPES	
LINETYPE	DESCRIPTION
— C —	COMMUNICATION
— CATV —	CABLE TV
— — — — —	EASEMENT LINE
— X —	FENCE
— F —	FIRE LINE
— FP —	FLOODPLAIN
— II —	FLOODWAY
→ — — — —	FLOWLINE
— FM —	FORCE MAIN
— G —	GAS LINE
— □ — □ —	GUARDRAIL/MASONRY FENCE
— ○ — ○ —	HANDRAIL
— NG —	NATURAL GAS
— OHE —	OVERHEAD ELECTRIC
— E —	OVERHEAD ELECTRICAL TRANSMISSION
— PD —	PROCESS DRAIN
— PL —	PROPERTY LINE
— R/W —	RIGHT-OF-WAY
— SS —	SANITARY SEWER
— SSL —	SEWER SERVICE LINE
— SD —	STORM DRAIN
— SF —	SILT FENCE
— — TOB — —	TOP OF BANK
— — TOS — —	TOE OF SLOPE
— — — — —	TREE LINE
— UGTV —	UNDERGROUND CABLE TV
— UGE —	UNDERGROUND ELECTRIC
— UGT —	UNDERGROUND TELEPHONE
— UGT(FO) —	UNDERGROUND FIBER OPTIC TELEPHONE
— ••• —	WATER EDGE
— W —	WATER LINE
— WSL —	WATER SERVICE LINE
— W1 —	POTABLE WATER
— W2 —	NON-POTABLE WATER
— (A) —	INDICATES ABANDONED LINE
— 12" —	12" INDICATES SIZE OF LINE
— — — — —	EXISTING ELECTRICAL DUCT BANK
— ••• — ••• —	EXISTING PIPE TO BE ABANDONED
— — — — —	EXISTING PIPE TO BE DEMOLISHED
— — 1300 — —	EXISTING CONTOURS
— — 1300 — —	PROPOSED CONTOURS
— — — — —	PROPOSED ELECTRICAL DUCT BANK

CIVIL LEGEND	
SYMBOL	DESCRIPTION
	AIR RELEASE VALVE
	AREA INLET
	BENCH MARK/GEOTECHNICAL BORE
	BOLLARD
	CATCH BASIN/JUNCTION BOX
	CLEANOUT
	CONCRETE HEADWALL
	CONTROL POINT
	CURB INLET SEDIMENT FILTER
	DOUBLE COMBINATION INLET
	ELECTRIC BOX/PULLBOX
	ELECTRIC DUCT MARKER
	ELECTRIC HANDHOLE
	ELECTRIC MANHOLE
	ELECTRIC METER
	EXTENDED THROAT CURB INLET
	FIBER OPTIC BOX
	FIBER OPTIC CABLE RISER/PEDESTAL
	FIBER OPTIC MANHOLE
	FIRE HYDRANT
	FLAGPOLE
	FLARED END SECTION (FES)
	GAS METER
	GAS REGULATOR
	GRATED INLET
	GUY WIRE ANCHOR
	IRRIGATION CONTROL VALVE
	LIFT STATION
	LIGHT POLE
	MANHOLE
	MAILBOX
	MONITORING WELL
	PROCESS DRAIN MANHOLE
	PROPERTY PIN
	PULL BOX
	PUMP STATION
	RAILROAD SWITCH BOX
	RIP RAP
	RIGHT-OF-WAY MARKER
	ROCK DITCH CHECK
	SANITARY SEWER MANHOLE

CIVIL LEGEND (CONT'D)	
SYMBOL	DESCRIPTION
	SATELLITE DISH
	SEPTIC TANK
	SIGN
	SLOPE DIRECTION INDICATOR
	SPRINKLER HEAD
	STANDARD CURB INLET
	STORM DRAIN MANHOLE
	SUMP INLET SEDIMENT FILTER
	SURVEY CONTROL POINT
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	TELEVISION PEDESTAL
	TRAFFIC CONTROL BOX
	TRANSFORMER
	UTILITY POLE
	VALVE
	VALVE COVER
	VENT
	WATER METER
	WELL
	WINDSOCK
	YARD HYDRANT/SPIGOT
	SHRUB/BUSH
	DEMOLISH TREE
	TREE
	EVERGREEN TREE
	DEMOLISH
	PROPOSED HEAVY DUTY ASPHALT
	EXISTING ASPHALT
	PROPOSED ASPHALT/PAVEMENT REPAIR
	EXISTING CONCRETE
	PROPOSED CONCRETE
	PROPOSED HEAVY DUTY CONCRETE
	GRAVEL ROAD OR DRIVE
	SIDEWALK
	STAGING AREA


GENERAL IDENTIFICATION	
LABEL	DESCRIPTION
	DETAIL NUMBER
01-C500	DRAWING NUMBER
	DIVISION NUMBER
D33	DRAWING NUMBER
3923-003	DETAIL NUMBER
	PROFILE NUMBER 1
05-C301	DRAWING NUMBER
	CHEMICAL LINE PROFILE NUMBER 1
05-C301	DRAWING NUMBER
	ELECTRICAL DUCT BANK PROFILE NUMBER 1
05-E201	DRAWING NUMBER
	GAS LINE PROFILE NUMBER 1
05-C301	DRAWING NUMBER
	PROCESS LINE PROFILE NUMBER 1
05-C301	DRAWING NUMBER
	ROAD PROFILE NUMBER 1
05-C201	DRAWING NUMBER
	STORM DRAIN PROFILE NUMBER 1
05-C201	DRAWING NUMBER
	UTILITY PROFILE NUMBER 1
05-C301	DRAWING NUMBER
1-01	APPURTENANCE SEQUENCE NUMBER
CPB-C01-01	PULLBOX SEQUENCE NUMBER
P01-01	APPURTENANCE SEQUENCE NUMBER
S01-01	APPURTENANCE SEQUENCE NUMBER
SDMH-S01-01	STRUCTURE SEQUENCE NUMBER
SSMH-U01-01	STRUCTURE SEQUENCE NUMBER
U01-01	APPURTENANCE SEQUENCE NUMBER

GENERAL CONVENTIONS	
SYMBOL	DESCRIPTION
	CALLOUT DENOTES A CIVIL DETAIL REFERENCE (THIS EXAMPLE IS DETAIL 1 ON DRAWING NUMBER 05-C501)
	CALLOUT DENOTES A STANDARD DETAIL REFERENCE
	CALLOUT DENOTES A KEYED NOTE REFERENCE
	SPOT ELEVATION
	CAUTION CALLOUT
	CLOUDED REGION INDICATES A REVISED AREA
	TITLE DENOTES A CIVIL DETAIL (THIS EXAMPLE IS DETAIL 1 ON DRAWING NUMBER 05-C501)
	TITLE DENOTES A CIVIL PROFILE AND PLAN VIEW LAYOUT (THIS EXAMPLE IS PROFILE NUMBER 1 ON DRAWING NUMBER 05-C310 WHICH HAS A BACK REFERENCE TO THE PLAN VIEW LAYOUT ON DRAWING NUMBER 05-C305)
	CALLOUT DENOTES A CUT SECTION TYPICAL REFERENCE (THIS EXAMPLE OCCURS ON DRAWING NUMBER 05-C205 REFERENCING SECTION NUMBER 1 ON DRAWING NUMBER 05-C210)
	SYMBOL INDICATES NORTH DIRECTION
	SYMBOL INDICATES A GRAPHICAL BAR SCALE

CIVIL LEGEND NOTES:

- GRAYSCALE LINE TYPES AND SYMBOLS INDICATE EXISTING ITEMS. BOLD LINE TYPES AND SYMBOLS INDICATE PROPOSED ITEMS.
- LINES OF 12 INCH DIAMETER OR GREATER ARE SHOWN AT NOMINAL DIAMETER. LINES LESS THAN 12 INCH DIAMETER ARE SHOWN AS A SINGLE LINE.

APPURTENANCE SYMBOLS		APPURTENANCE SYMBOLS		APPURTENANCE SYMBOLS	
PROFILE	DESCRIPTION	PROFILE	DESCRIPTION	PROFILE	DESCRIPTION
	AIR RELEASE VALVE		BUTTERFLY VALVE		GATE VALVE
	BALL VALVE		CLEANOUT		PLUG VALVE
	BLOW-OFF VALVE		FIRE HYDRANT ASSEMBLY		

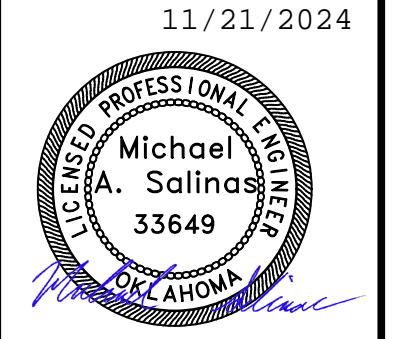


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OK COA #4193
 EXPIRES 06/30/2026

11/21/2024



REV	DATE	DESCRIPTION

CITY OF MIDWEST
 MIDWEST CITY, OKLAHOMA



MIDWEST CITY MUNICIPAL
 AUTHORITY PLANS OF PROPOSED
 SERVICE LINE CONNECTIONS

LEGEND AND ABBREVIATIONS

JOB NO.: 17078430
 DATE: NOV 2024
 DESIGNED BY: MAS
 DRAWN BY: EMG
 CHECKED BY: MTN

BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
01-G004

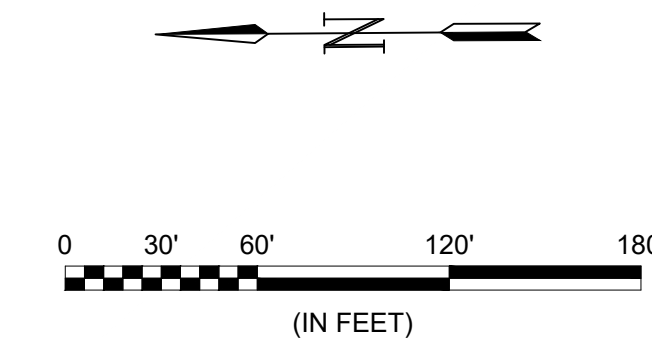
SHEET NUMBER
04

STARVIEW PROPOSED SERVICE ADDRESSES

A4	2000 N DOUGLAS, Oklahoma City, OK 73141	C1	1712 N DOUGLAS, Oklahoma City, OK 73141
A5	9009 NE 19TH, Oklahoma City, OK 73141	C2	1710 N DOUGLAS, Oklahoma City, OK 73141
A6	9011 NE 19TH, Oklahoma City, OK 73141	C3	1708 N DOUGLAS, Oklahoma City, OK 73141
A7	9013 NE 19TH, Oklahoma City, OK 73141	C4	1706 N DOUGLAS, Oklahoma City, OK 73141
A8	9015 NE 19TH, Oklahoma City, OK 73141	C5	1704 N DOUGLAS, Oklahoma City, OK 73141
A9	9017 NE 19TH, Oklahoma City, OK 73141	C6	1702 N DOUGLAS, Oklahoma City, OK 73141
B1	1906 N DOUGLAS, Oklahoma City, OK 73141	C7	1700 N DOUGLAS, Oklahoma City, OK 73141
B6	1804 N DOUGLAS, Oklahoma City, OK 73141	C8	9009 NE 16TH, Oklahoma City, OK 73141
B8	9009 NE 17TH, Oklahoma City, OK 73141	C9	9017 NE 16TH, Oklahoma City, OK 73141
B9	9011 NE 17TH, Oklahoma City, OK 73141	C10	9021 NE 16TH, Oklahoma City, OK 73141
B10	9013 NE 17TH, Oklahoma City, OK 73141	C11	9025 NE 16TH, Oklahoma City, OK 73141
B11	9015 NE 17TH, Oklahoma City, OK 73141	C12	9029 NE 16TH, Oklahoma City, OK 73141
B12	9017 NE 17TH, Oklahoma City, OK 73141	C13	9016 NE 17TH, Oklahoma City, OK 73141
B13	9016 NE 19TH, Oklahoma City, OK 73141	C15	9012 NE 17TH, Oklahoma City, OK 73141
B15	9012 NE 19TH, Oklahoma City, OK 73141	C16	9010 NE 17TH, Oklahoma City, OK 73141
B17	9008 NE 19TH, Oklahoma City, OK 73141	C17	9008 NE 17TH, Oklahoma City, OK 73141

LEGEND

- W ——— EXISTING MIDWEST CITY WATER LINE
- W ——— EXISTING MIDWEST CITY WATER SERVICE LINE
- W ——— PROPOSED MIDWEST CITY WATER SERVICE LINE
- SS ——— EXISTING SANITARY SEWER LINE
- SD ——— EXISTING STORM DRAIN LINE
- W ——— EXISTING WATER SERVICE LINES CONNECTING TO MIDWEST CITY WATER LINE
-W..... ABANDON EXISTING STARVIEW WATER LINE
-W..... ABANDON EXISTING STARVIEW CITY WATER SERVICE LINE
- WM (circle) EXISTING WATER METERS
- WM (circle) PROPOSED WATER METERS
- ▨ TRENCHLESS INSTALLATION

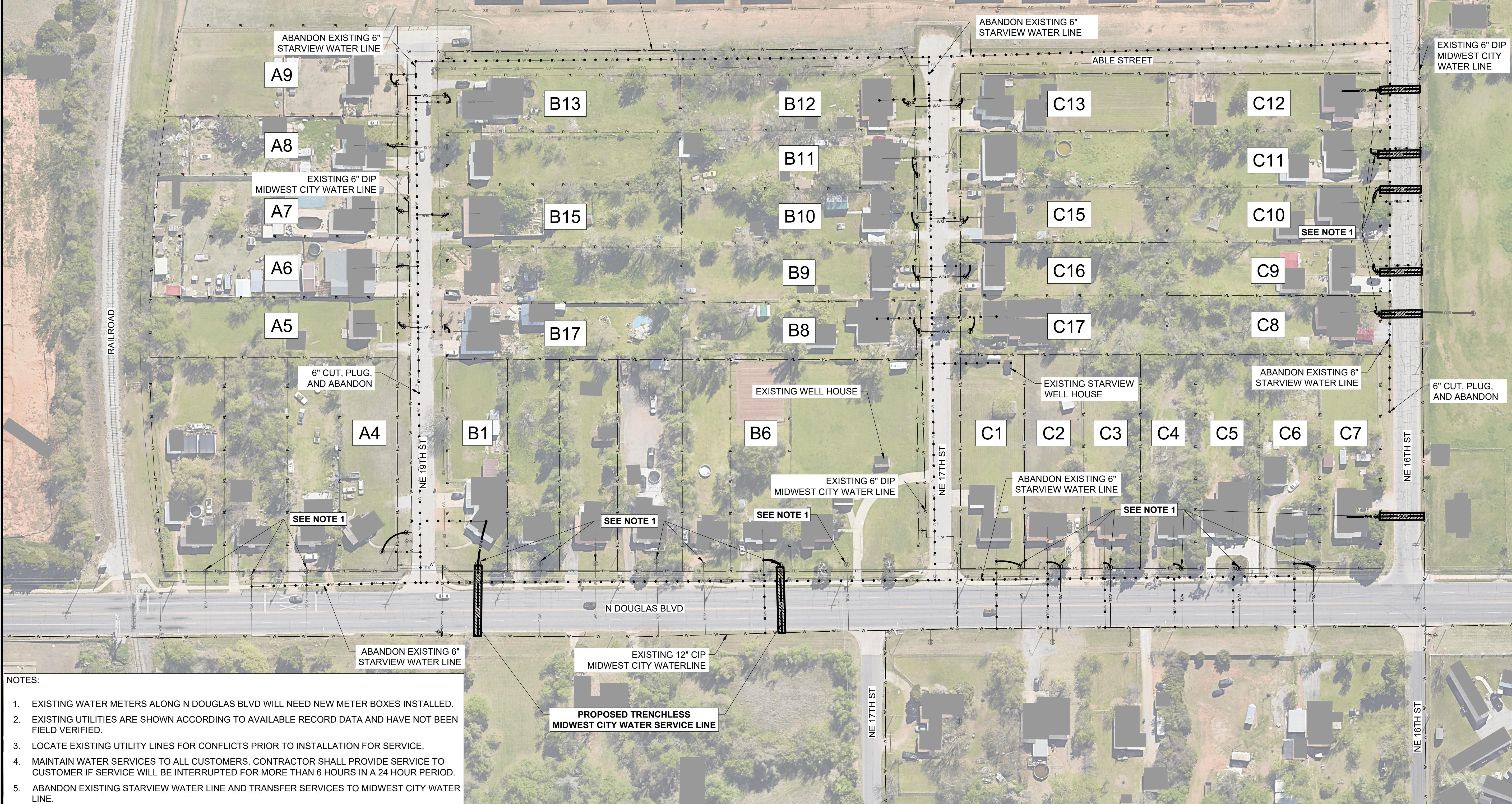


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- NOTES:**
- EXISTING WATER METERS ALONG N DOUGLAS BLVD WILL NEED NEW METER BOXES INSTALLED.
 - EXISTING UTILITIES ARE SHOWN ACCORDING TO AVAILABLE RECORD DATA AND HAVE NOT BEEN FIELD VERIFIED.
 - LOCATE EXISTING UTILITY LINES FOR CONFLICTS PRIOR TO INSTALLATION FOR SERVICE.
 - MAINTAIN WATER SERVICES TO ALL CUSTOMERS. CONTRACTOR SHALL PROVIDE SERVICE TO CUSTOMER IF SERVICE WILL BE INTERRUPTED FOR MORE THAN 6 HOURS IN A 24 HOUR PERIOD.
 - ABANDON EXISTING STARVIEW WATER LINE AND TRANSFER SERVICES TO MIDWEST CITY WATER LINE.

REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST
MIDWEST CITY, OKLAHOMA

MIDWEST CITY MUNICIPAL
AUTHORITY PLANS OF PROPOSED
SERVICE LINE CONNECTIONS

OVERALL SERVICE AREA LAYOUT

JOB NO.: 17078430
DATE: NOV 2024
DESIGNED BY: MAS
DRAWN BY: EMG
CHECKED BY: MTN

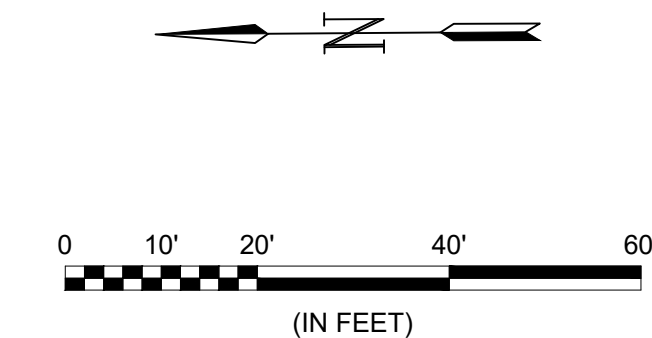
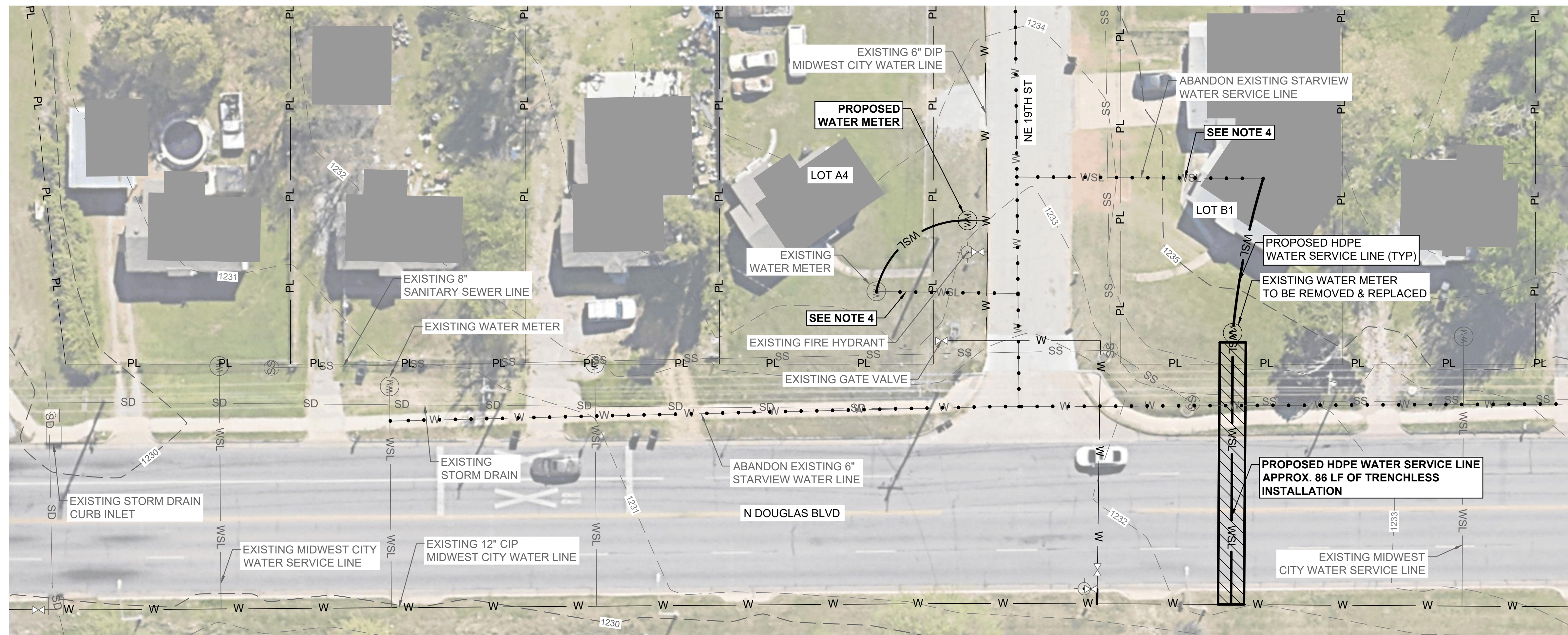
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DRAWING NUMBER
05-C101

SHEET NUMBER
05

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Last plotted by: Perez, Osiel G., Plot Date: 8/8/2024 1:53 PM, Plotter used: None

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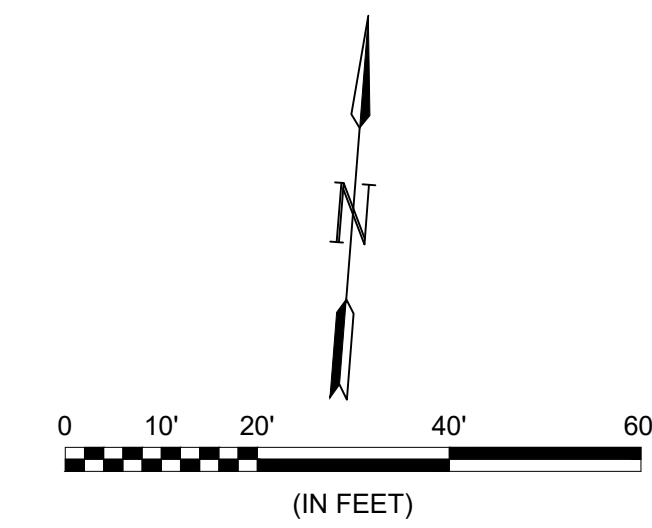
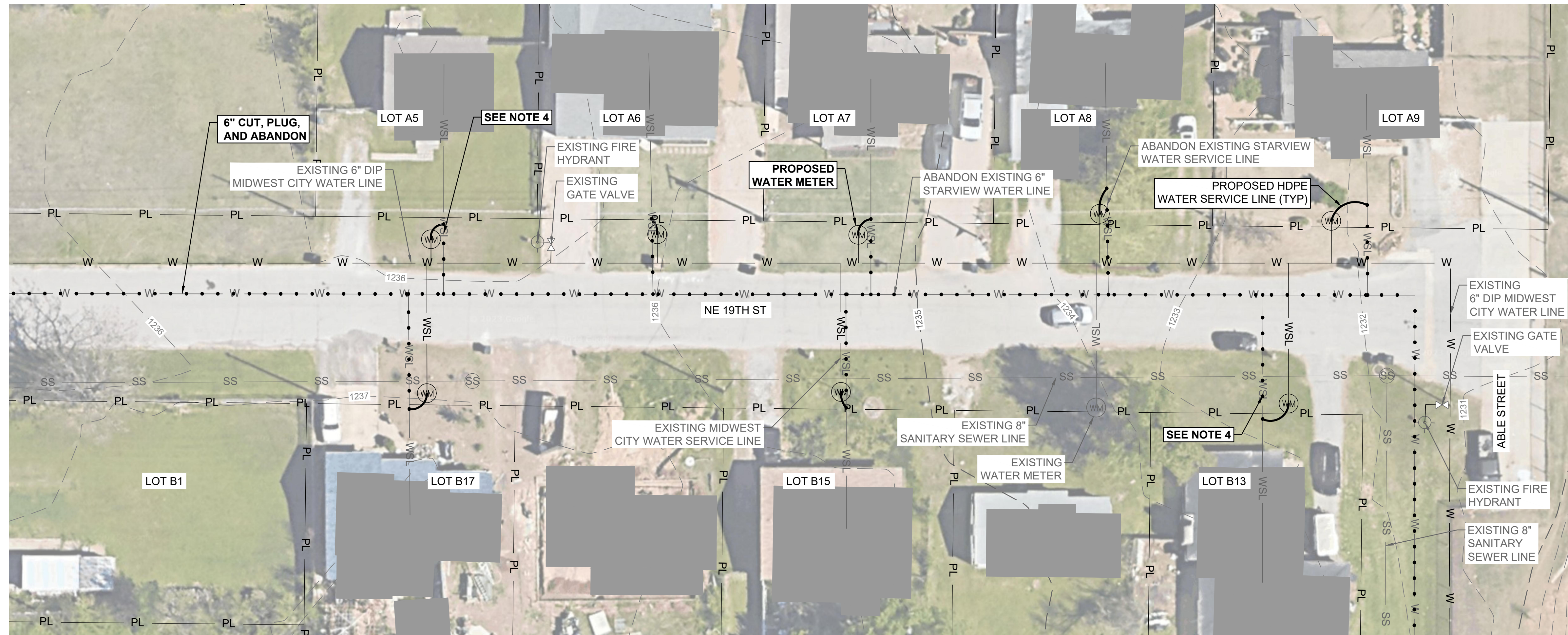
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- EXISTING UTILITIES ARE SHOWN ACCORDING TO AVAILABLE RECORD DATA AND HAVE NOT BEEN FIELD VERIFIED.
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11/21/2024



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REV	DATE	DESCRIPTION

BY: _____

CITY OF MIDWEST CITY, OKLAHOMA

MIDWEST CITY MUNICIPAL AUTHORITY PLANS OF PROPOSED SERVICE LINE CONNECTIONS

PLAN LAYOUTS 1

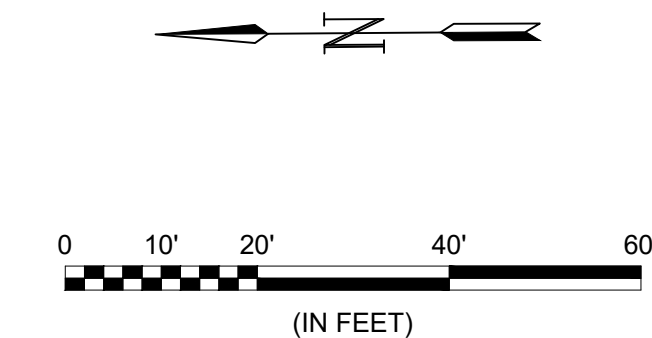
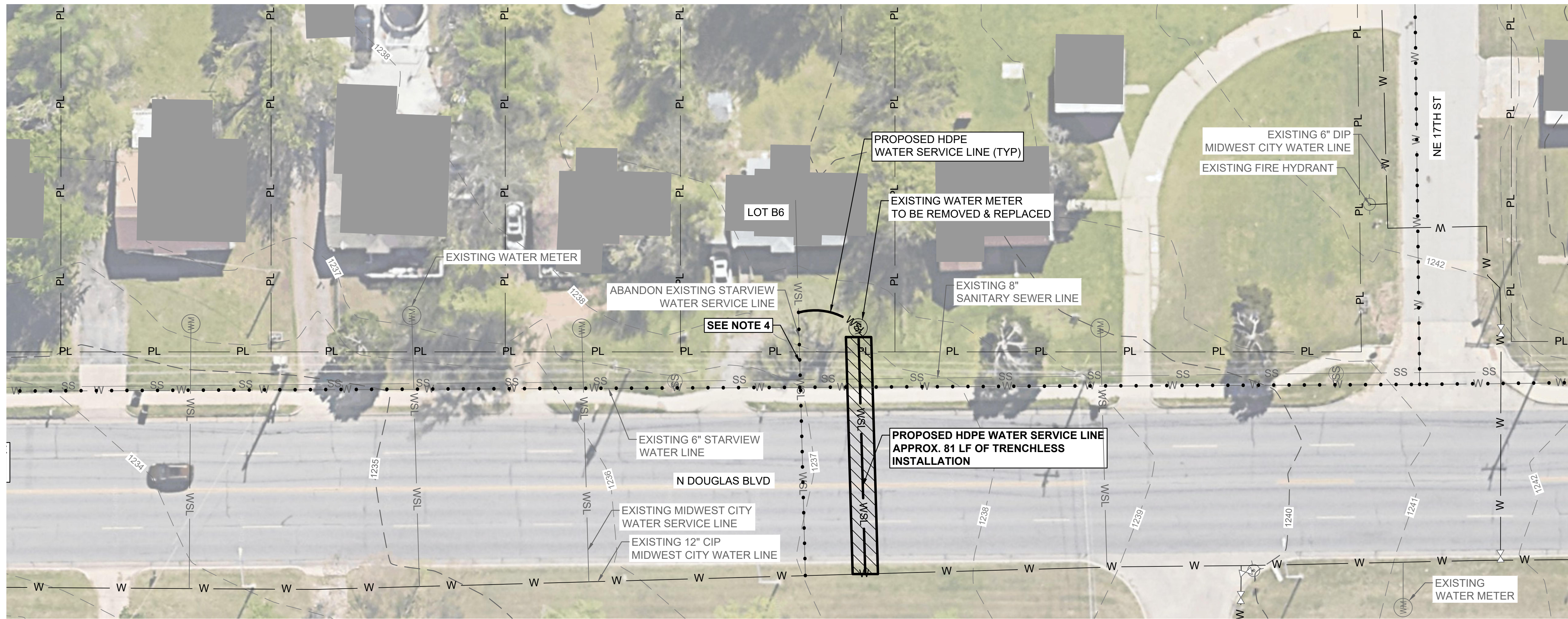
JOB NO.: 17078430
 DATE: NOV 2024
 DESIGNED BY: MAS
 DRAWN BY: EMG
 CHECKED BY: MTN

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DRAWING NUMBER
05-C301

SHEET NUMBER
06

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NOTES:

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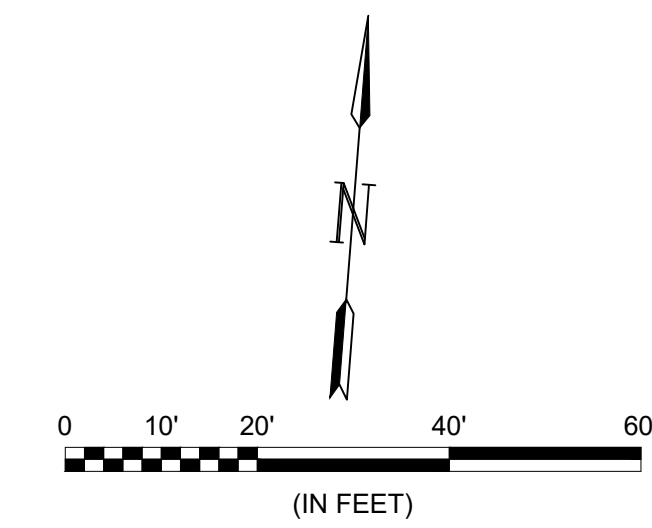
750 SW 24TH ST.
 STE. 200
 MOORE, OK 73160

OK COA #4193
 EXPIRES 06/30/2026



11/21/2024

REV	DATE	DESCRIPTION	BY



NOTES:

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CITY OF MIDWEST
 MIDWEST CITY, OKLAHOMA

MIDWEST CITY MUNICIPAL
 AUTHORITY PLANS OF PROPOSED
 SERVICE LINE CONNECTIONS

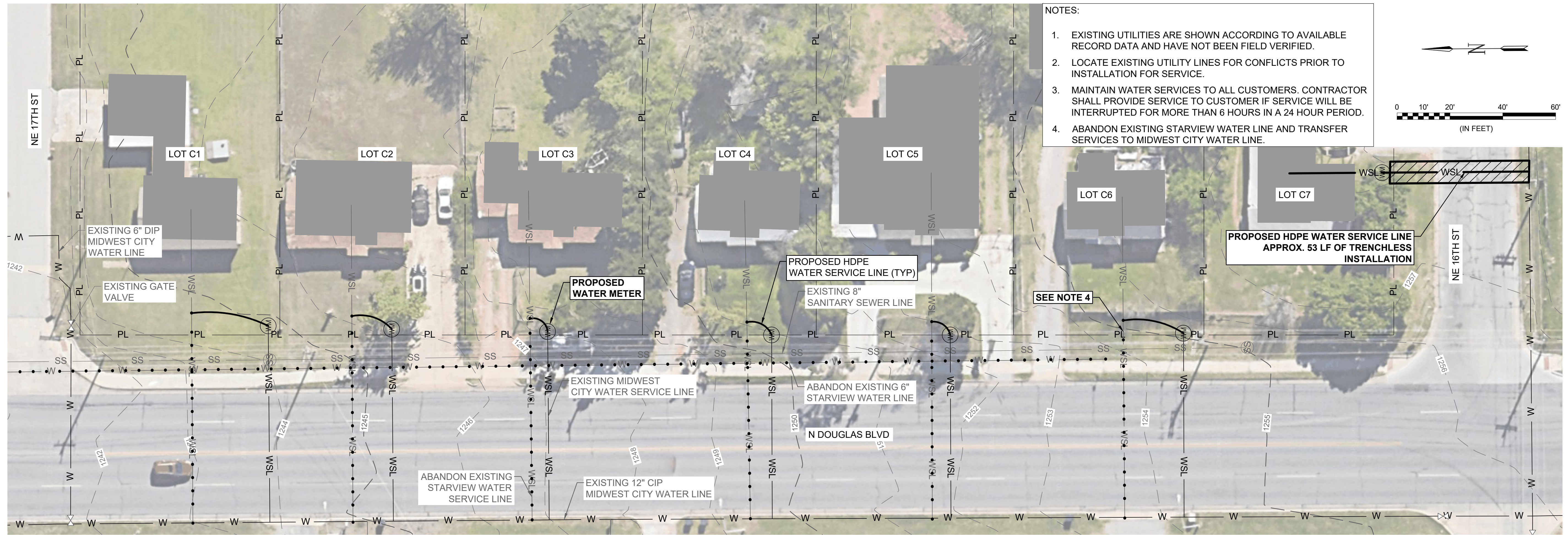
PLAN LAYOUTS 2

JOB NO.: 17078430
 DATE: NOV 2024
 DESIGNED BY: MAS
 DRAWN BY: EMG
 CHECKED BY: MTN

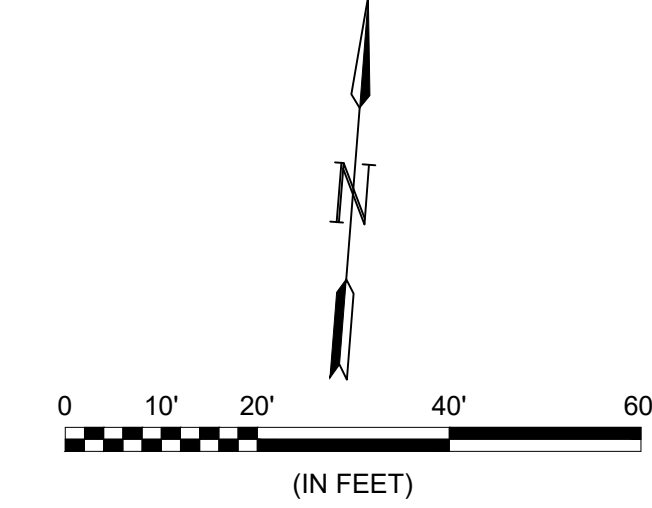
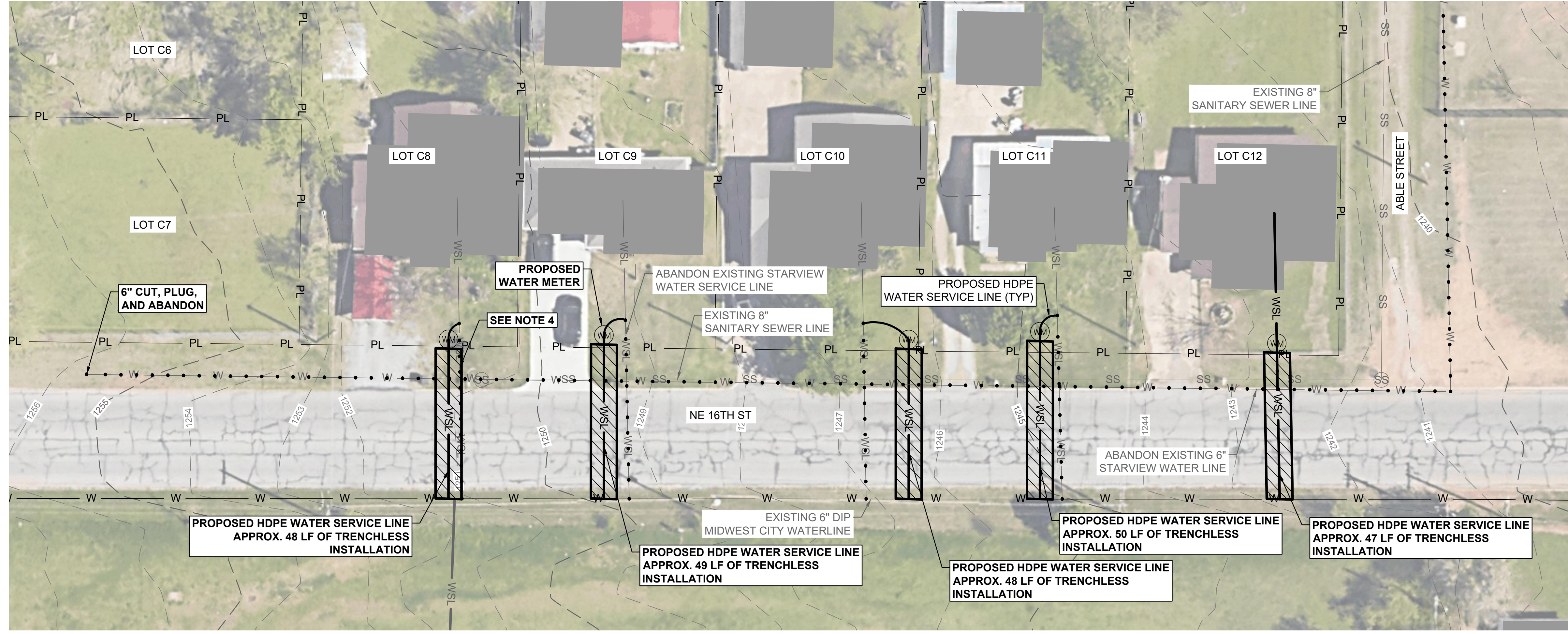
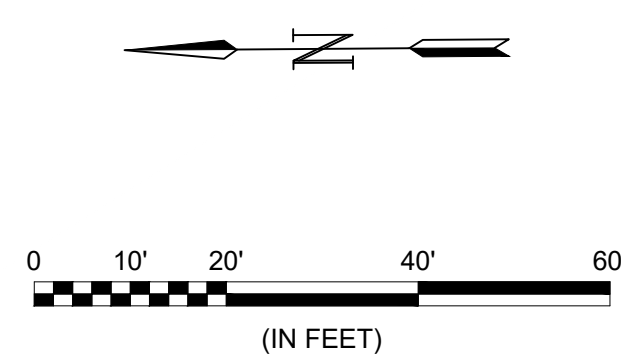
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DRAWING NUMBER
05-C302
 SHEET NUMBER
07

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 Last plotted by: Perez, Osiel G. Plot Style: ---- Plot Scale: 1:2,884.9 Plot Date: 8/8/2024 1:54 PM Plotter used: None



- NOTES:
1. EXISTING UTILITIES ARE SHOWN ACCORDING TO AVAILABLE RECORD DATA AND HAVE NOT BEEN FIELD VERIFIED.
 2. LOCATE EXISTING UTILITY LINES FOR CONFLICTS PRIOR TO INSTALLATION FOR SERVICE.
 3. MAINTAIN WATER SERVICES TO ALL CUSTOMERS. CONTRACTOR SHALL PROVIDE SERVICE TO CUSTOMER IF SERVICE WILL BE INTERRUPTED FOR MORE THAN 6 HOURS IN A 24 HOUR PERIOD.
 4. ABANDON EXISTING STARVIEW WATER LINE AND TRANSFER SERVICES TO MIDWEST CITY WATER LINE.



- NOTES:
1. EXISTING UTILITIES ARE SHOWN ACCORDING TO AVAILABLE RECORD DATA AND HAVE NOT BEEN FIELD VERIFIED.
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OK COA #4193
 EXPIRES 06/30/2026



REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST
 MIDWEST CITY, OKLAHOMA
 MIDWEST CITY
 Where the spirit lives high
 MIDWEST CITY MUNICIPAL
 AUTHORITY PLANS OF PROPOSED
 SERVICE LINE CONNECTIONS

PLAN LAYOUTS 3

JOB NO.: 17078430
 DATE: NOV 2024
 DESIGNED BY: MAS
 DRAWN BY: EMG
 CHECKED BY: MTN

BAR IS ONE INCH ON ORIGINAL DRAWING
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05-C303
 SHEET NUMBER
08

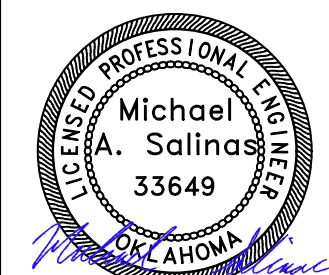


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MOORE, OK 73160

OK COA #4193
EXPIRES 06/30/2026

11/21/2024



REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST
MIDWEST CITY, OKLAHOMA

MIDWEST CITY
Where the spirit lives high

MIDWEST CITY MUNICIPAL
AUTHORITY PLANS OF PROPOSED
SERVICE LINE CONNECTIONS

SERVICE
CONNECTION DETAIL

JOB NO.: 17078430
DATE: NOV 2024
DESIGNED BY: MAS
DRAWN BY: EMG
CHECKED BY: MTN

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
99-C501
SHEET NUMBER **09**

GENERAL NOTES:

1. DETAIL SHOWN FOR A 3/4" SERVICE, 1" SERVICE, OR AS DIRECTED BY OWNER, INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX.
2. ABANDON EXISTING SERVICE LINES IN PLACE.
3. NO SPLICING SHALL BE ALLOWED. FULL LENGTH OF PIPING SERVICE SHALL BE INSTALLED.
4. CONTRACTOR SHALL MAKE VERTICAL AND HORIZONTAL ADJUSTMENTS AND FURNISH ALL FITTINGS, PIPING AND VALVES AS NECESSARY ON THE CUSTOMER SERVICE SIDE TO MAKE A SERVICE CONNECTION.
5. REFER TO DRAWING 99-C502 FOR BEDDING AND BACKFILL REQUIREMENTS.

CONSTRUCTION KEY NOTES:

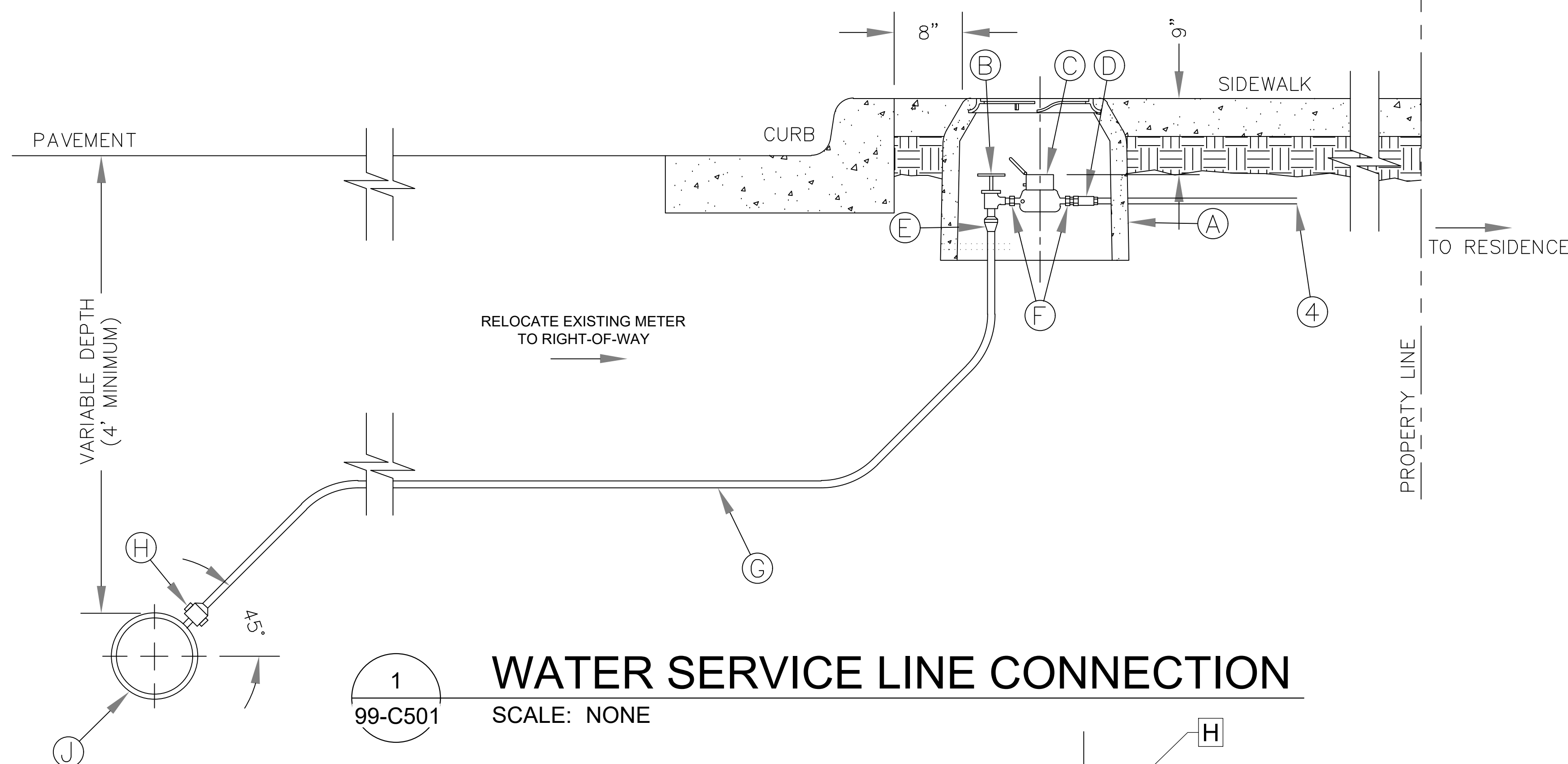
- (A) METER BOX SHALL BE SET SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
- (B) 3/4" BALL ANGLE SERVICE VALVE WITH PADLOCK WINGS.
- (C) WATER METER (CENTER INSIDE METER BOX).
- (D) WHEN REQUIRED BY OWNER, A DUAL CHECK BACKFLOW PREVENTER SHALL BE INSTALLED ON THE OUTLET SIDE OF THE METER.
- (E) END FLARE OF SERVICE LINE.
- (F) INLET AND OUTLET COUPLING.
- (G) 3/4" HDPE SERVICE LINE (SEE NOTE 3).
- (H) 5/8" X 3/4" CORPORATION STOP
- (I) PRESSURE REGULATOR SOMETIMES LOCATED NEAR THE RESIDENCE.
- (J) EXISTING MINIMUM 6" WATER MAIN

GENERAL NOTES:

1. DETAIL SHOWN FOR A 3/4" SERVICE, 1" SERVICE, OR AS DIRECTED BY OWNER, INSTALLATION IS SIMILAR EXCEPT FOR SIZES OF PIPE, FITTING, METER AND BOX.
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5. REFER TO DRAWING 99-C502 FOR BEDDING AND BACKFILL REQUIREMENTS.

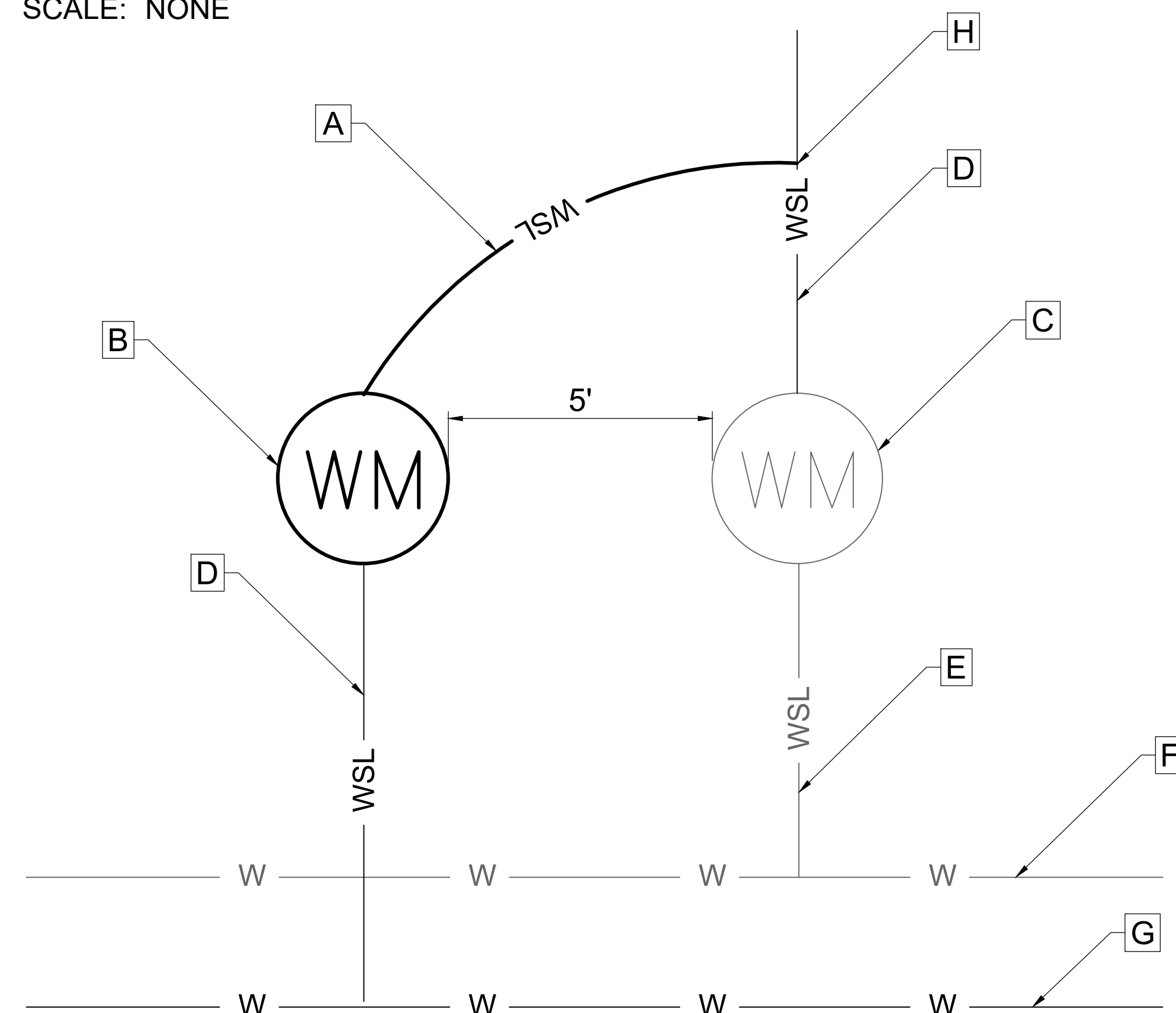
CONSTRUCTION KEY NOTES:

- (A) PROPOSED 3/4" COPPER SERVICE PIPE TO TRANSFER OVER EXISTING TO PROPOSED SERVICES.
- (B) PROPOSED WATER METER (UNLESS INDICATED OTHERWISE ON PLANS).
- (C) EXISTING METER/METER BOX TO BE ABANDONED.
- (D) PROPOSED 3/4" HDPE SERVICE LINE (SEE NOTES 1 AND 3).
- (E) EXISTING SERVICE LINE TO BE ABANDONED.
- (F) EXISTING STARVIEW MAIN LINE TO BE ABANDONED.
- (G) EXISTING MIDWEST CITY MAIN LINE.
- (H) CONNECT TO EXISTING SERVICE LINE



1 WATER SERVICE LINE CONNECTION

99-C501 SCALE: NONE



2 WATER METER PLAN

99-C501 SCALE: NONE

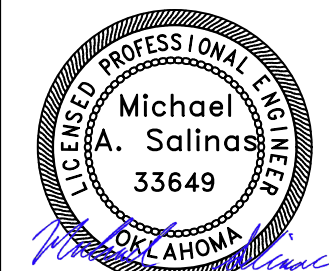


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STE. 200
MOORE, OK 73160

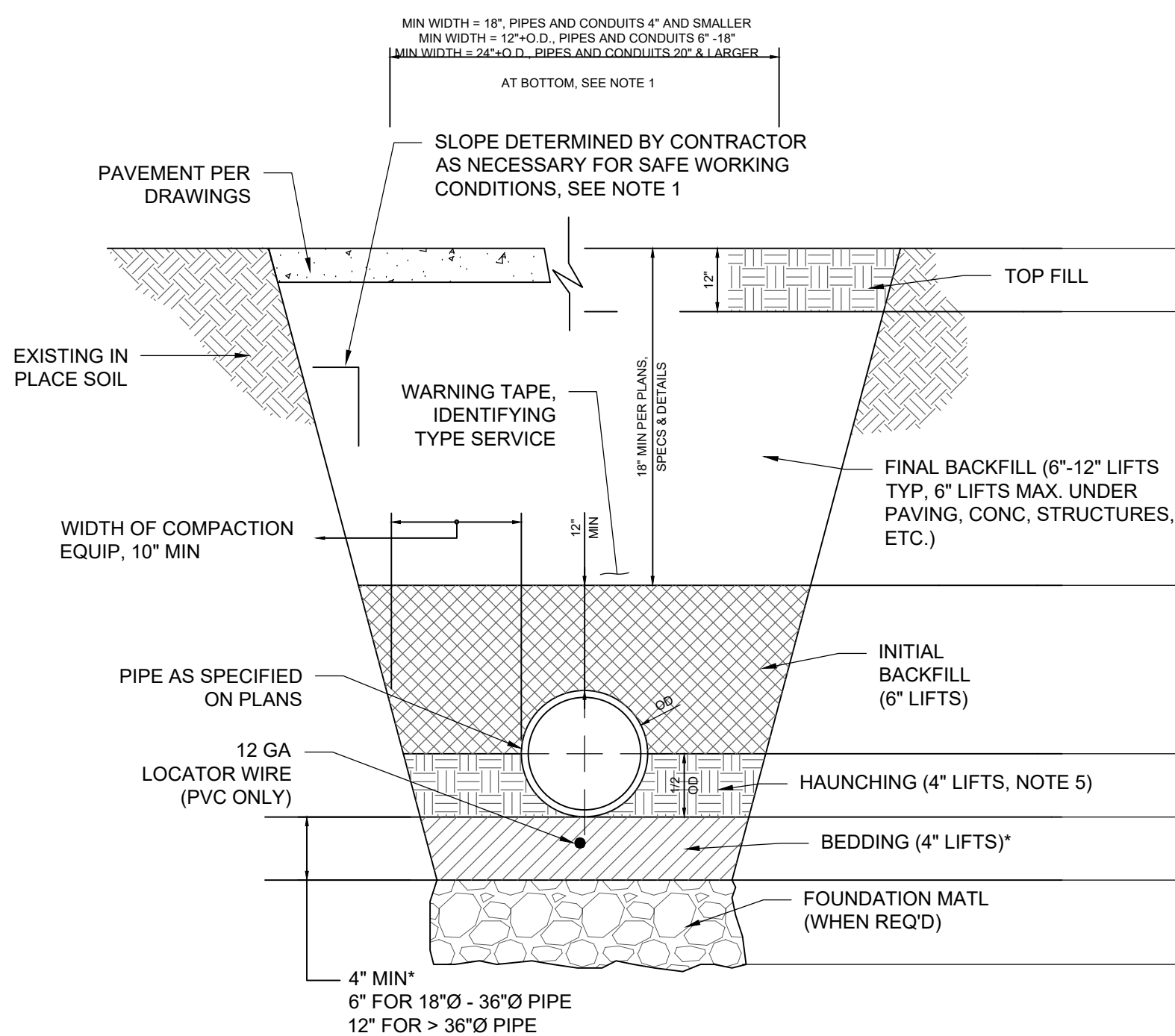
OK COA #4193
EXPIRES 06/30/2026

11/21/2024



NOTES:

1. SLOPE, BENCHING, SHORING, ETC. AS DETERMINED AND DESIGNED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE OSHA REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".
2. BEDDING REQ'D FOR ALL GRAVITY LINES, ALL PVC LINES AND ALL CONCRETE LINES. BEDDING REQUIRED IN ALL AREAS OF ROCK EXCAVATION OR UNSUITABLE SOILS. BELL HOLES REQ'D FOR PIPES > 4" DIA. FOR DUCTILE IRON PRESSURE MAINS, SELECT EARTH MAY BE USED FOR BEDDING IN AREAS OF ROCK EXCAVATION.
3. ALL MATERIALS SHALL BE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY AT 2%± OPTIMUM MOISTURE CONTENT. MATERIALS UNDER PAVING, CONCRETE, STRUCTURES, ETC. SHALL BE COMPACTED TO TO MIN 98%-100% MODIFIED PROCTOR. MECHANICAL COMPACTION SHALL BE BY VIBRATORY SHEEPSFOOT OR OTHER EQUIP. SPECIFICALLY DESIGNED FOR THE COMPACTION OF EARTH. COMPACTION EQUIP. SHALL BE ON-SITE PRIOR TO BEGINNING OF WORK. MECHANICAL COMPACTION SHALL BE COMPLETED IN LOOSE LIFTS AS SHOWN ON THE DETAIL.
4. TEMPORARY COMPACTED PUG-MIX BACKFILL REQ'D UNTIL PAVEMENT PLACEMENT IS COMPLETE. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THIS PUGMIX TO KEEP IT FLUSH WITH THE ADJACENT PAVING, ETC. UNTIL THE FINAL PAVING IS PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ASPHALT OR CONCRETE PATCHES WHEN NEEDED FOR PUBLIC SAFETY AND/OR CONVENIENCE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND UTILIZE APPROPRIATE MEANS AND METHODS OF CONSTRUCTION TO ENSURE THAT THE ENTIRE AREAS UNDER THE HAUNCHES OF THE PIPE ARE FILLED WITH THE REQUIRED MATERIALS AND COMPACTED APPROPRIATELY.
6. ADDITIONAL AND/OR SPECIAL REQUIREMENTS MAY BE REQ'D BY THE PLANS, SPECIFICATIONS AND/OR CONTRACT DOCUMENTS.
7. TO THE EXTENT POSSIBLE, AS DETERMINED BY THE CONTRACTOR, TRENCH WALL SHORING METHODS SHALL BE USED IN PAVED AREAS TO MINIMIZE PAVING REPAIR REQUIREMENTS.



BEDDING/BACKFILL REQUIREMENTS & MAT'L DESIGNATIONS (SEE MATERIAL DESIGNATION/DESCRIPTOINS TABLE)												
PRESSURE MAINS			GRAVITY LINES			PAVED AREAS			ELECTRICAL UTILITIES PAVED AREAS		ELECTRICAL UTILITIES UNPAVED AREAS	
DI	CONC	HDPE, PVC & FRP	DI	CONC	HDPE, PVC & FRP	DI	CONC	HDPE, PVC & FRP	CONDUIT & DIRECT-BURIED CABLE	DUCT BANK	CONDUIT & DIRECT-BURIED CABLE	DUCT BANK
5	5	5	5	5	5	6**	6**	6**	6**	6**	5	5
4	4	4	4	4	4	7	7	7	7	7	5	5
3	3	*** 1/2	3	3	*** 1/2	1	3	*** 1/2	9	8****	9	8****
2	3	*** 1/2	2	3	*** 1/2	2	3	*** 1/2	9	8****	9	8****
2	1	2	2	1	2	2	1	2	9	8****	9	8****
RIP-RAP OR CRUSHED STONE CLASS 1B (USCS IN ASTM D2487)												

* SEE NOTE 2
** SEE NOTE 4
*** LINES SMALLER THAN 18" SHALL BE NO.67 BEDDING, LINES 18" AND LARGER NO.67 OR NO.57 BEDDING.
**** SEE DETAIL D28 0543-012 FOR ADDITIONAL REQUIREMENTS

NOTES:
WHERE EXISTING LINES ARE DEEPER & REMOVED FOR THE INSTALLATION OF NEW LINES. THE BEDDING MATERIAL SHALL EXTEND TO THE FULL DEPTH AND WIDTH OF EXCAVATION.

MATERIAL DESIGNATION/ DESCRIPTIONS TABLE	
DESIGNATION/ MATERIALS	DESCRIPTION
1	CRUSHED STONE, ASTM-448 NO. 57 GRADATION
2	CRUSHED STONE, ASTM-448 NO. 67 GRADATION.
3	SELECT EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 1" DIA.
4	EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 12" DIA.
5	SELECT TOPSOIL MAT'L TO SUPPORT VEGETATION, NO STONES OR ROCK ALLOWED
6	PAVEMENT MATCHING EXISTING PAVEMENT OR AS SPECIFIED ON THE PLANS
7	AGGREGATE BASE COARSE OR CONTROLLED LOW STRENGTH FILL
8	3500 PSI CONCRETE WITH 3" ENCASEMENT ALL AROUND WITH 3" MIN BETWEEN CONDUITS
SAND, CLEAN TO SILTY, FREE OF SHARP EDGES (<12% PASSING NO. 200, 100% PASSING NO. 4. IF MORE THAN 5% PASSES NO. 200, ALL PASSING NO. 40 SHALL BE NONPLASTIC)	

1
99-C502

BEDDING AND BACKFILL FOR TRENCHES

SCALE: NONE

REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST
MIDWEST CITY, OKLAHOMA

MIDWEST CITY MUNICIPAL
AUTHORITY PLANS OF PROPOSED
SERVICE LINE CONNECTIONS

BEDDING BACKFILL
DETAIL

JOB NO.: 17078430
DATE: NOV 2024
DESIGNED BY: MAS
DRAWN BY: EMG
CHECKED BY: MTN

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
99-C502
SHEET NUMBER **10**

File: I:\2017\17078430 - mvc.msa\Drawings\MWC-MSA_99-501.dwg Last Save: 8/8/2024 12:59 PM Last saved by: OGPerez
Last plotted by: Perez, Osiel G. Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 8/8/2024 1:54 PM Plotter used: None