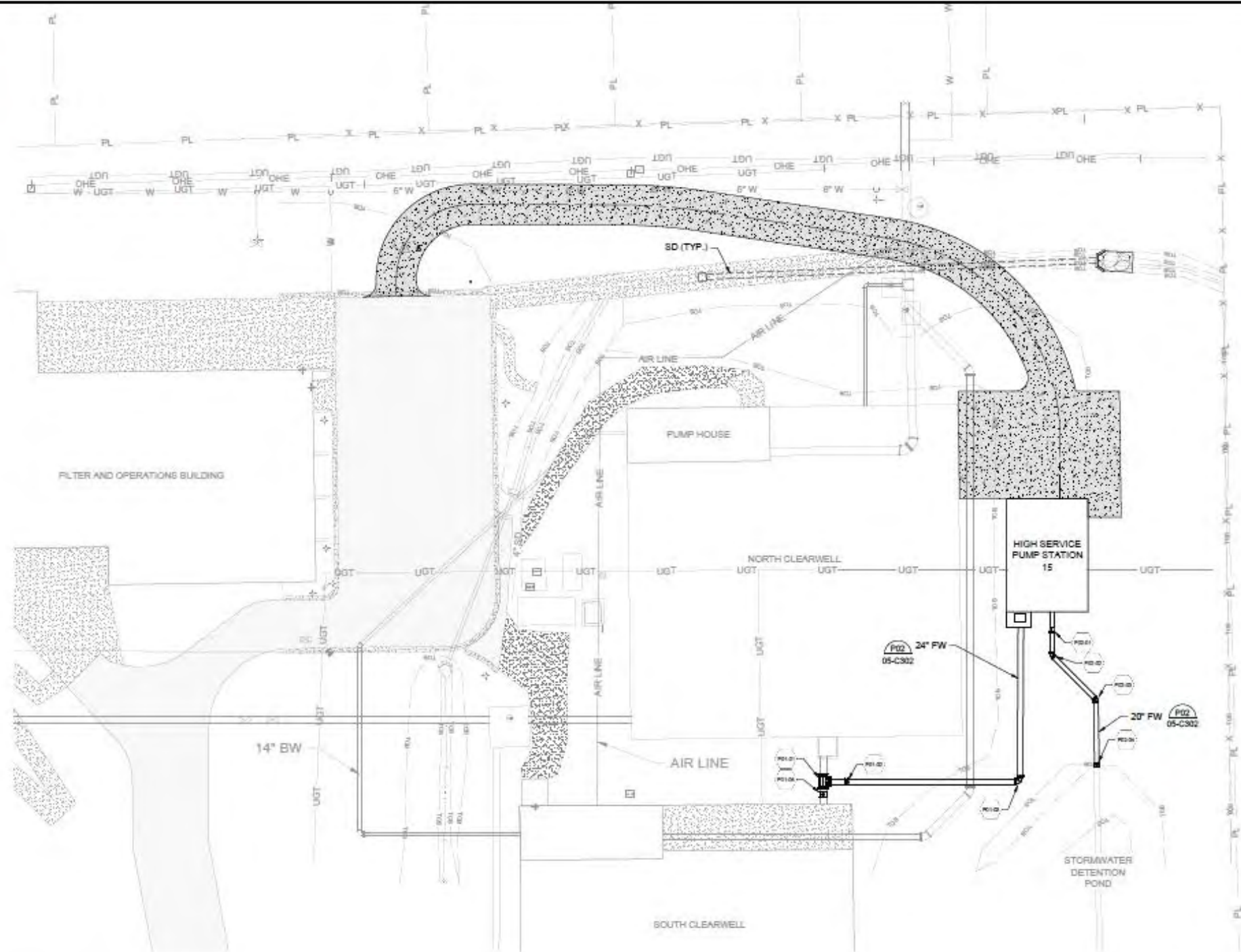


Appendix A: Engineering Design

File: L:\010191.000\010 - MWC Timber Ridge EST and HSPS\DWG\WATER-04-C302-01.dwg, Job: 19078070, 03/20/24, 4:44 PM, Job used by: BBrooks
 Last plotted by: No One, Print Date: 03/20/24, 12:50 PM, Scale: 1/2"=1'-0", Plot Date: 03/20/24, 12:50 PM, Plotter used: None

YARD PIPING COORDINATES				
POINT #	NORTHING	EASTING	CENTERLINE ELEVATION	DESCRIPTION
P01-01	162490.70	2185235.71	1287.00	24" BIV W/ MOTORIZED ACTUATOR
P01-03	162490.70	2185309.11	1287.00	24" 90° BEND
P02-01	162547.17	2185320.99	1288.00	30" X 18" REDUCER
P02-02	162537.64	2185320.99	1288.00	30" 45° BEND
P02-03	162521.30	2185337.34	1288.00	30" 45° BEND

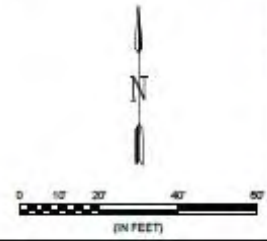
VALVE COORDINATES				
POINT #	NORTHING	EASTING	CENTERLINE ELEVATION	DESCRIPTION
P01-02	162490.70	2185244.43	1287.00	24" BIV
P01-04	162485.93	2185235.71	1287.00	30" BIV W/ MOTORIZED ACTUATOR
P02-04	162496.97	2185337.67	1288.00	30" SOLID SLEEVE



- A PIPING KEYNOTES
- + PIPING LAYOUT COORDINATES

NOTES:

1. EXISTING PIPING IS SHOWN BASED ON AVAILABLE RECORD DRAWINGS AND INFORMATION PROVIDED TO THE ENGINEER. CONTRACTOR SHALL REVIEW EXISTING RECORD DRAWINGS AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL PERTINENT LINES PRIOR TO CONSTRUCTION.
2. PIPING ELEVATIONS ARE FOR CONTRACTOR'S BENEFIT. CONTRACTOR SHALL VERIFY ELEVATIONS IN FIELD.
3. FOR ELECTRICAL DUCT BANK INFORMATION SEE ELECTRICAL DRAWINGS.



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REV	DATE	DESCRIPTION

CITY OF MIDWEST CITY
 MIDWEST CITY, OK

 MIDWEST CITY
 MWC TIMBER RIDGE EST
 AND HSPS

WTP PROPOSED YARD PIPING PLAN

JOB NO.: 19078070
 DATE: OCT. 2024
 DESIGNED BY: JCH
 DRAWN BY: TRP
 CHECKED BY: MTN

DRAWING NUMBER
04-C302
 SHEET NUMBER
22

Sheet: 15-S201.dwg, 10/10/2024 12:03:35 PM, 15 - AVTP HIGH SERVICE PUMP STATION

KEYNOTES	
1	LIGHTNING PROTECTION, SEE ELECTRICAL
2	WALL MOUNTED DOWN LIGHT
3	OVERHEAD COILING DOOR
4	HOLLOW METAL DOOR
5	INTERGRAL COLOR SPLIT FACE CMU VENEER
6	ELECTRICAL EQUIPMENT, SEE ELECTRICAL
7	PREFINISHED METAL ROOF
8	PREFINISHED METAL DOWNSPOUT W/ SPLASHBLOCK
9	PREFINISHED METAL GUTTER
10	PREFINISHED METAL FASCIA



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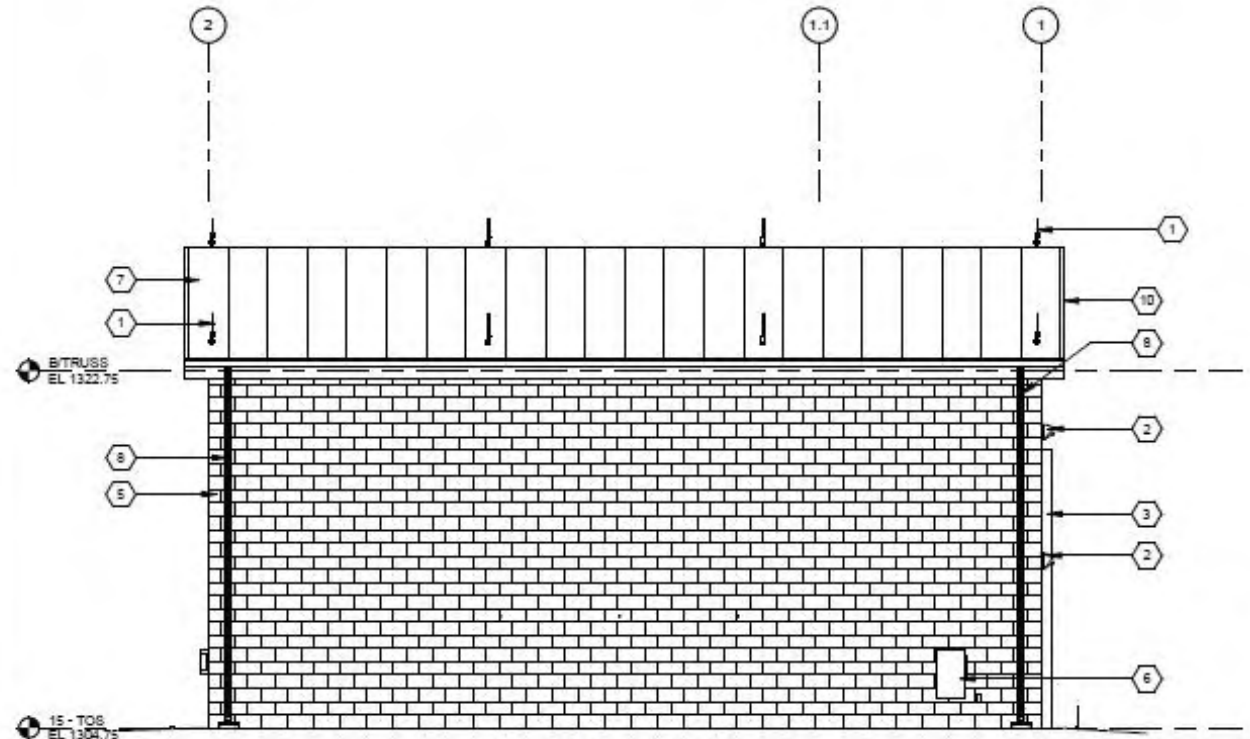
REV	DATE	DESCRIPTION	BY

CITY OF MIDWEST CITY
 MIDWEST CITY, OK
 MWC TIMBER RIDGE EST
 AND HSPS

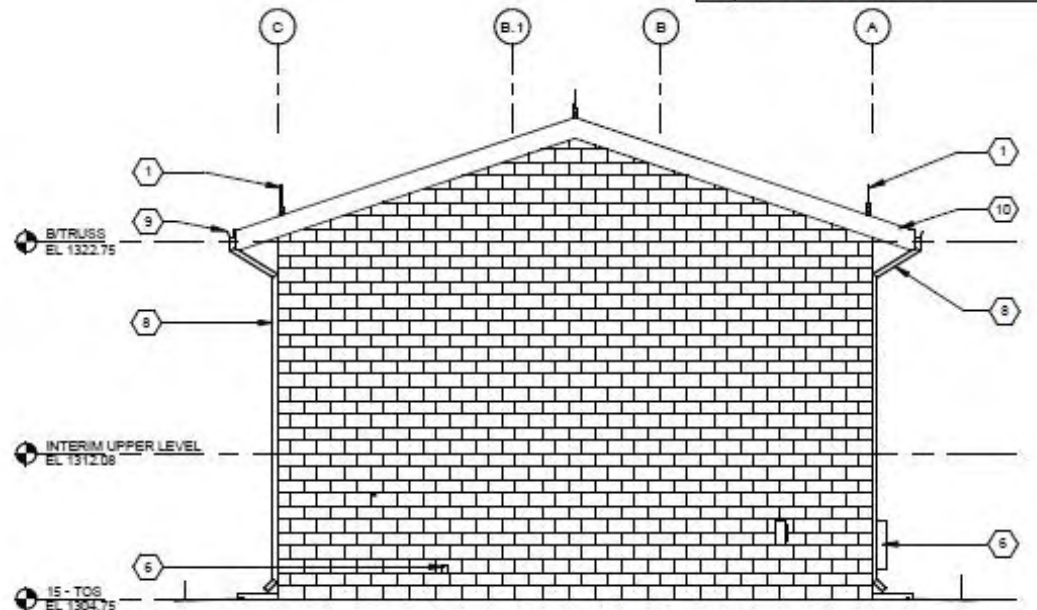
STRUCTURAL - ELEVATION

JOB NO.: 18078070
 DATE: OCT 2024
 DESIGNED BY: NL
 DRAWN BY: LDT
 CHECKED BY: KAM

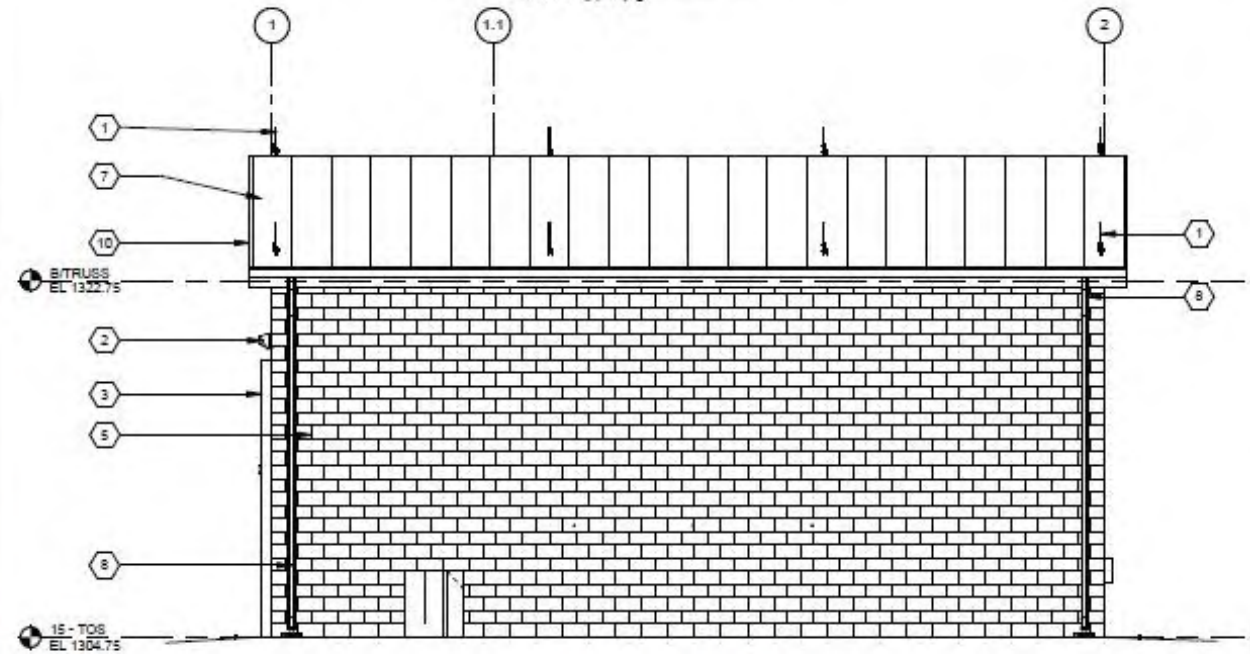
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15-S201
 SHEET NUMBER
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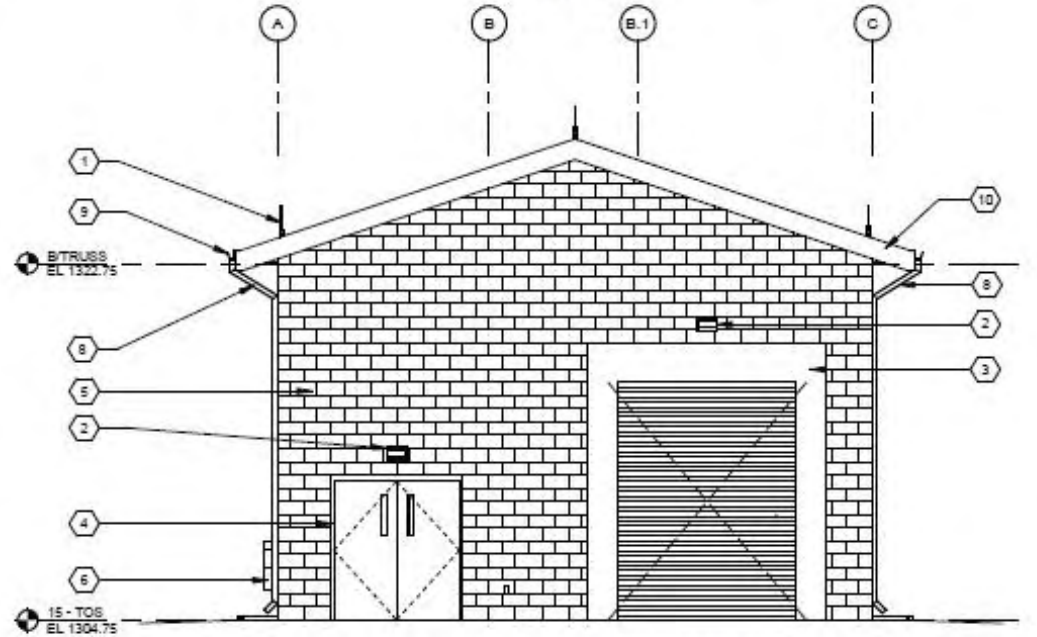
1 EAST ELEVATION
 SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION
 SCALE: 1/4" = 1'-0"

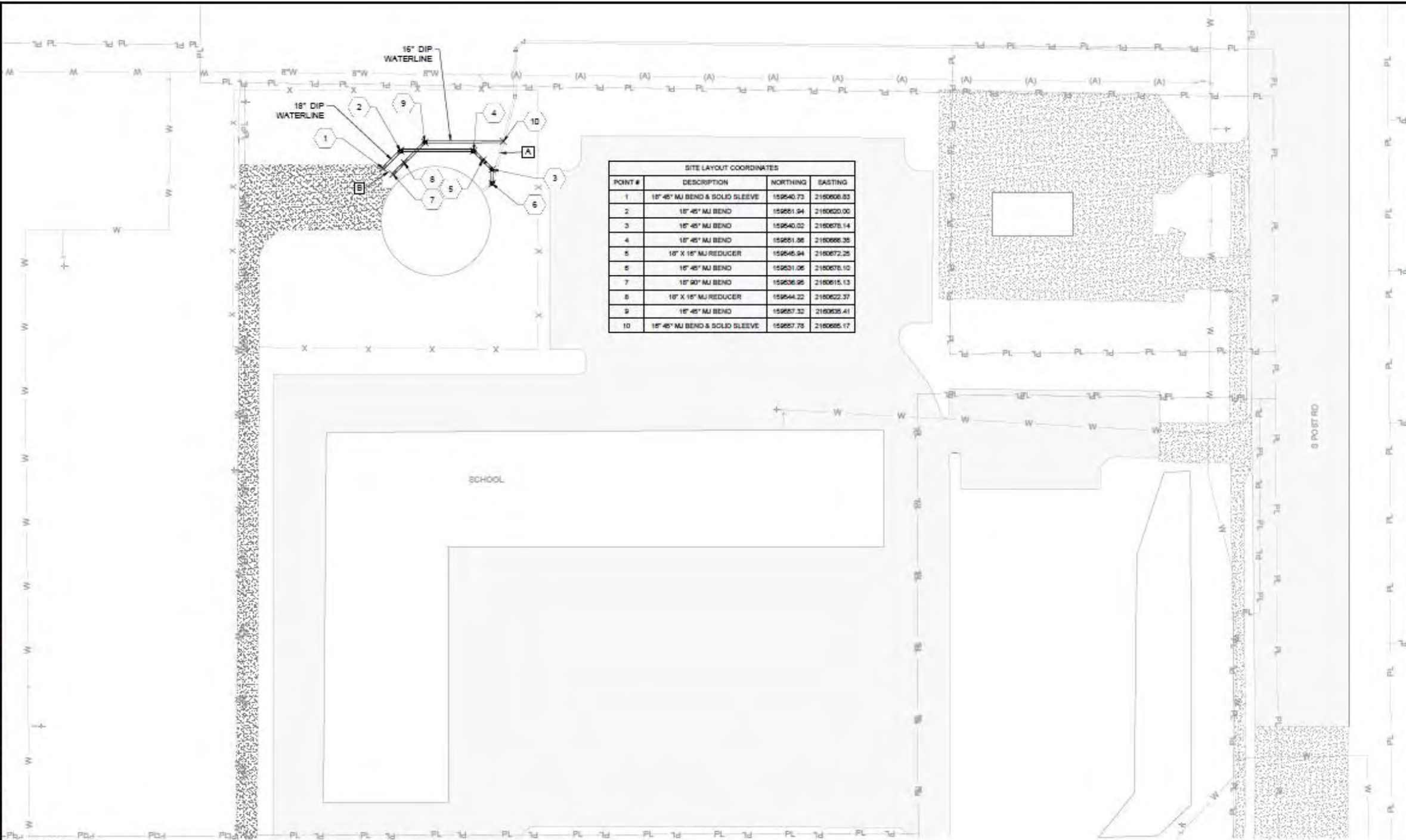


3 WEST ELEVATION
 SCALE: 1/4" = 1'-0"



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

FILE: L:\01914\01914\01914 - MWC Timber Ridge EST and HSRS\Design\DWG\MWTR-06-C100-3.dwg, Job Date: 9/30/2024 4:00 PM, Last saved by: DWY/evs
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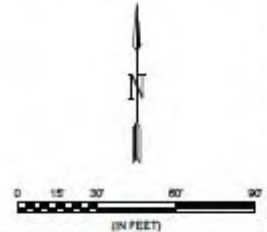
SITE LAYOUT COORDINATES			
POINT #	DESCRIPTION	NORTHING	EASTING
1	18" 45° MJ BEND & SOLID SLEEVE	159540.73	2180660.83
2	18" 45° MJ BEND	159551.34	2180622.00
3	18" 45° MJ BEND	159540.02	2180670.14
4	18" 45° MJ BEND	159551.36	2180666.38
5	18" X 18" MJ REDUCER	159545.94	2180672.25
6	18" 45° MJ BEND	159531.06	2180670.10
7	18" 90° MJ BEND	159536.95	2180615.13
8	18" X 18" MJ REDUCER	159544.22	2180622.37
9	18" 45° MJ BEND	159557.32	2180635.41
10	18" 45° MJ BEND & SOLID SLEEVE	159557.75	2180695.17

- A** PIPING KEYNOTES
- #** PIPING LAYOUT COORDINATES

- NOTES:**
- EXISTING PIPING IS SHOWN BASED ON AVAILABLE RECORD DRAWINGS AND INFORMATION PROVIDED TO THE ENGINEER. CONTRACTOR SHALL REVIEW EXISTING RECORD DRAWINGS AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL PERTINENT LINES PRIOR TO CONSTRUCTION.
 - PIPING ELEVATIONS ARE FOR CONTRACTOR'S BENEFIT. CONTRACTOR SHALL VERIFY ELEVATIONS IN FIELD.
 - FOR ELECTRICAL DUCT BANK INFORMATION, SEE ELECTRICAL DRAWINGS.

4. CONTRACTOR TO SCHEDULE SHUTDOWNS, TANK DRAINING AND TIE-INS W/OWNER AT LEAST 14 DAYS AHEAD OF WORK.

- PIPING KEYNOTES:**
- A.** GROUT PLUG AND ABANDON EXISTING 16" WATER LINE.
 - B.** DEMO EXISTING 18" WATER LINE.



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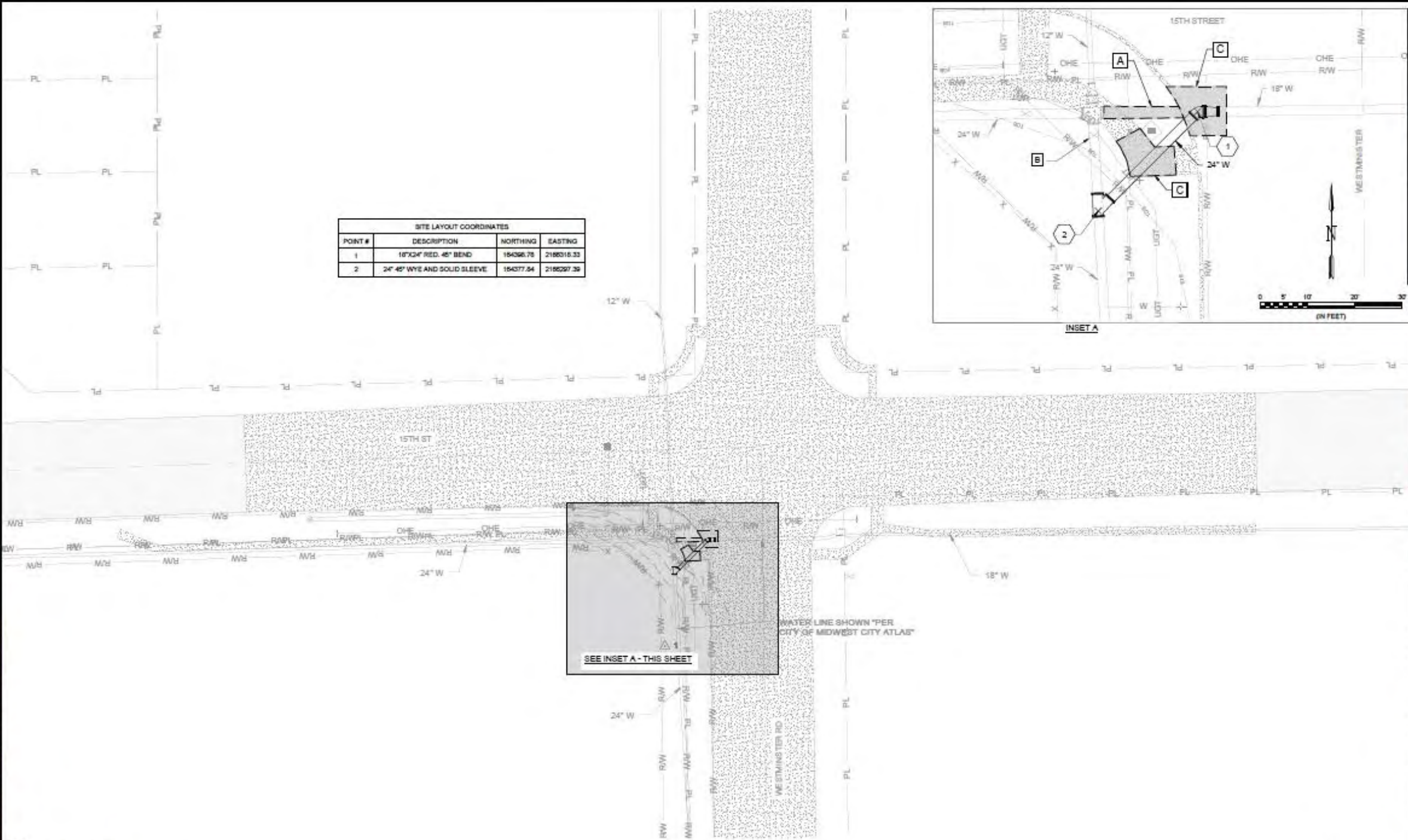
CITY OF MIDWEST CITY
 MIDWEST CITY, OK
MIDWEST CITY
 ENGINEERS & ARCHITECTS
**MWC TIMBER RIDGE EST
 AND HSRS**

**TITAN TOWER
 PROPOSED YARD
 PIPING PLAN**

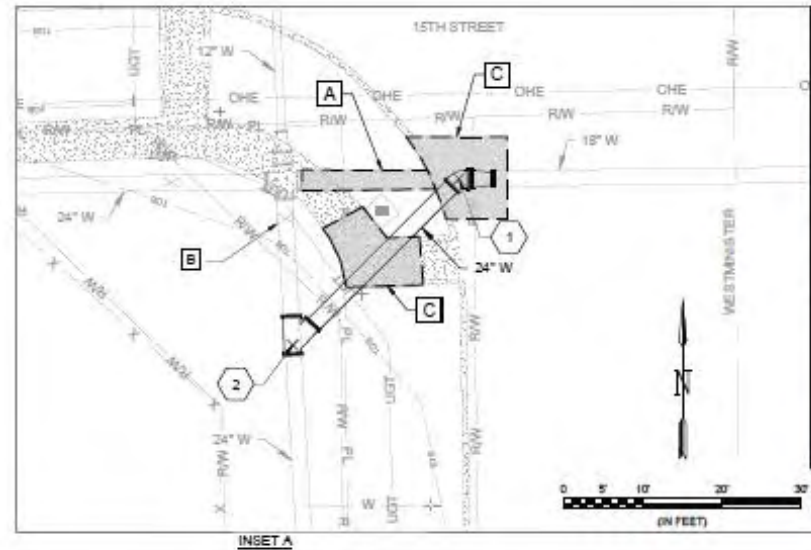
JOB NO.: 18078070
 DATE: OCT. 2024
 DESIGNED BY: JCH
 DRAWN BY: TRP
 CHECKED BY: MTN

SCALE: AS SHOWN ON SHEET
 IF NOT ONE INCH ON THIS SHEET,
 SCALE ACCORDINGLY
**DRAWING NUMBER
 06-C102**
**SHEET NUMBER
 51**

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SITE LAYOUT COORDINATES			
POINT #	DESCRIPTION	NORTHING	EASTING
1	18"X24" RED. 45° BEND	154056.75	2188315.33
2	24" 45° WYE AND SOLID SLEEVE	154377.54	2188297.35



A PIPING KEYNOTES

PIPING LAYOUT COORDINATES

NOTES:

- EXISTING PIPING IS SHOWN BASED ON AVAILABLE RECORD DRAWINGS AND INFORMATION PROVIDED TO THE ENGINEER. CONTRACTOR SHALL REVIEW EXISTING RECORD DRAWINGS AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL PERTINENT LINES PRIOR TO CONSTRUCTION.

- PIPING ELEVATIONS ARE FOR CONTRACTOR'S BENEFIT. CONTRACTOR SHALL VERIFY ELEVATIONS IN FIELD.
- FOR ELECTRICAL DUCT BANK INFORMATION SEE ELECTRICAL DRAWINGS.

PIPING KEYNOTES:

- DEMOLISH PIPE & PLUG NEAREST FITTING WITH PLUG.
- NORMALLY CLOSED VALVE AFTER IMPROVEMENTS.
- REMOVE AND REPLACE CONCRETE SIDEWALK AS NEEDED FOR IMPROVEMENTS.



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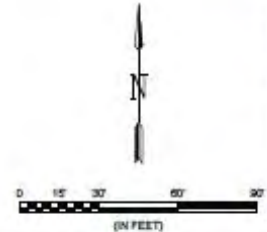
REV	DATE	DESCRIPTION

CITY OF MIDWEST CITY
 MIDWEST CITY, OK
 MWC TIMBER RIDGE EST
 AND HSRS

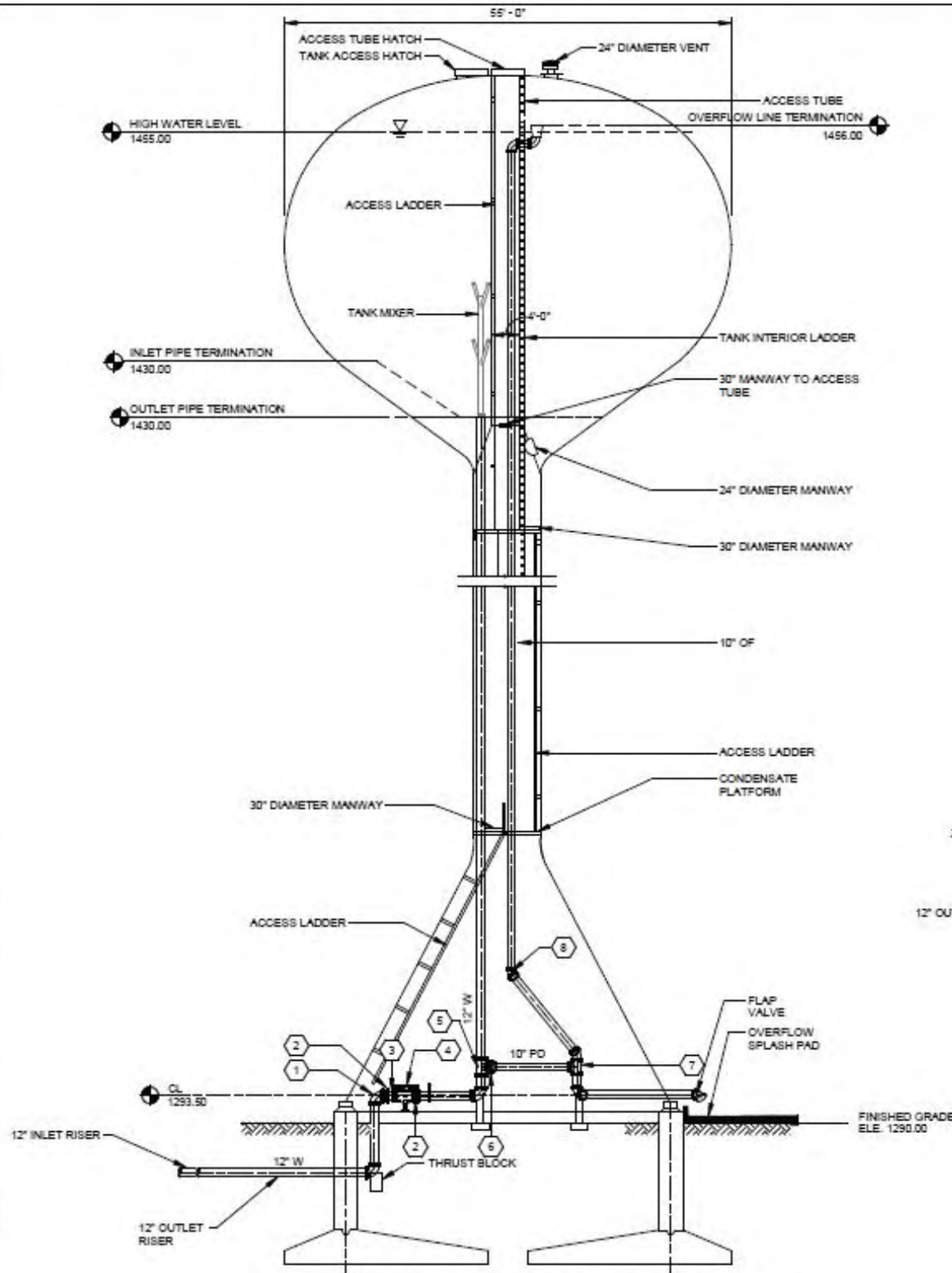
WESTMINSTER ROAD
PROPOSED SITE
PLAN

JOB NO.: 1807807D
 DATE: OCT. 2024
 DESIGNED BY: JCH
 DRAWN BY: TRP
 CHECKED BY: MTN

DRAWING NUMBER
07-C102
 SHEET NUMBER
53



2024.05.15 Midwest City, Oklahoma - MWC Timber Ridge East and HSP Facility 15 AWP High Service Pump Station
 10/12/2024 04:16 PM

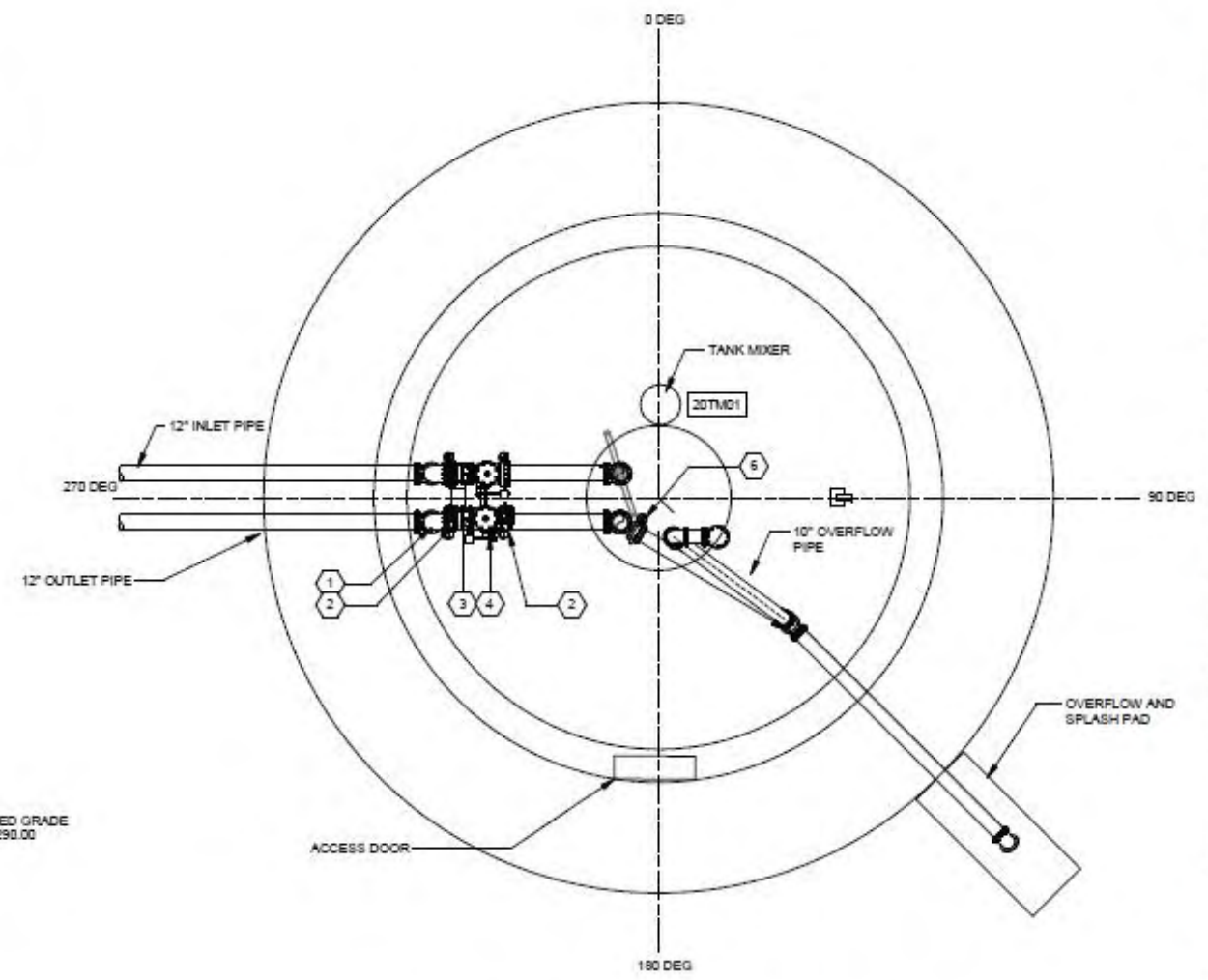


1 ELEVATED STORAGE TANK - WEST VIEW
 20-M101 SCALE: 1/8" = 1'-0"

NOTES:

1. ALL STRUCTURAL DESIGN OF INTERIOR PARTITION WALLS, STAIRS, FLOOR SLABS, PLATFORMS, AND HATCHES SHALL BE BY THE TANK MANUFACTURER.
2. TANK VENT DIMENSIONS ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL SUBMIT CALCULATIONS AND PROOF OF PERFORMANCE.
3. TANK MIXER SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH THE TANK MANUFACTURER.
4. TANK SLAB DIAMETER, PEDESTAL GEOMETRY, AND BOWL DIAMETER ARE SHOWN AS INFORMATION ONLY. TANK MANUFACTURER SHALL DESIGN TANK DIAMETER TO MEET THE REQUIRED PIPE TERMINATION ELEVATIONS SHOWN AND A STORAGE VOLUME OF 500,000 GALLONS.

KEYNOTES	
1	12" 90 BEND - FLG X FLG
2	12" BUTTERFLY VALVE
3	12" DISMANTLING JOINT
4	12" SWING CHECK VALVE
5	12" X 10" TEE - FLG X FLG X FLG
6	10" BUTTERFLY VALVE
7	10" TEE - FLG X FLG X FLG
8	10" 45 BEND - FLG X FLG



2 ELEVATED STORAGE TANK PLAN
 20-P101 SCALE: 3/16" = 1'-0"



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 MIDWEST CITY, OK
 MWC TIMBER RIDGE EST AND HSP

ELEVATED STORAGE TANK PLAN AND SECTION VIEW

JOB NO.: 18078070
 DATE: OCT 2024
 DESIGNED BY: JBR
 DRAWN BY: LDT
 CHECKED BY: CJC

DRAWING NUMBER
20-P101
 SHEET NUMBER
79